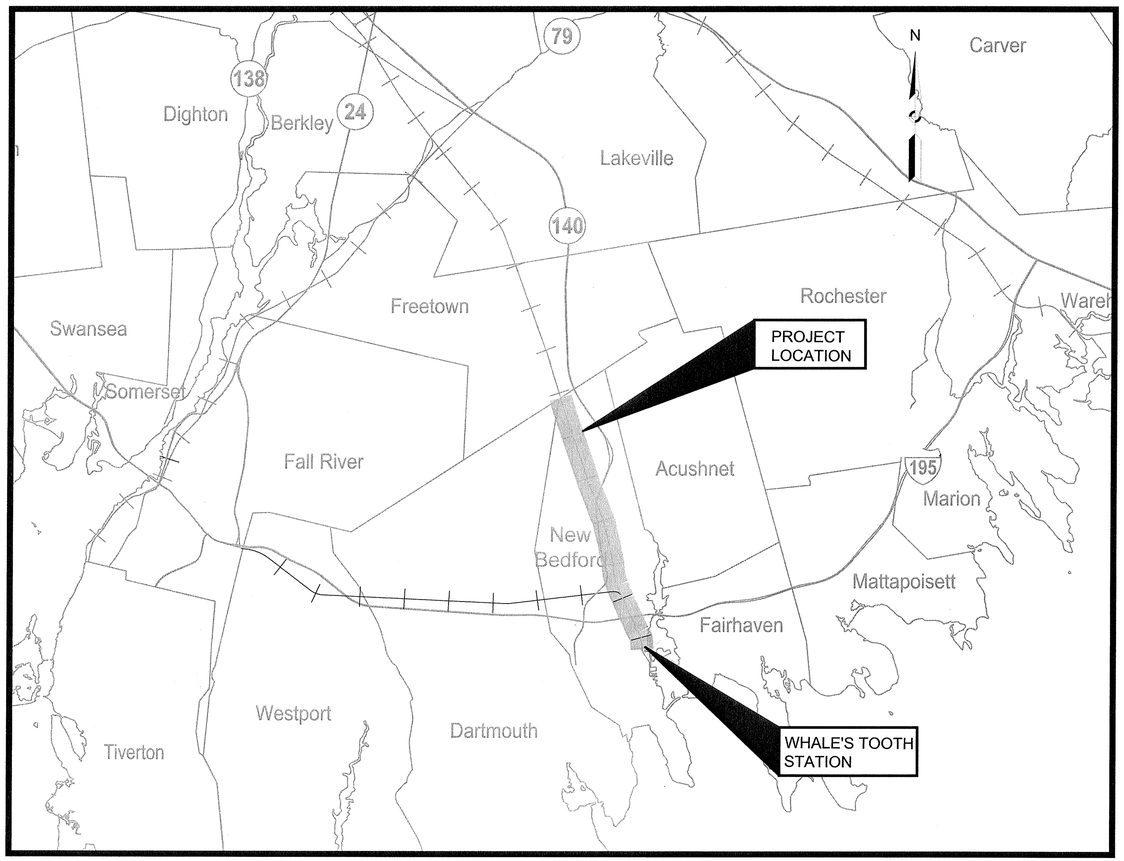


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vhb HNTB

99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

South Coast Rail

New Bedford Notice of Intent Plans Track and Whales Tooth Station Infrastructure

JUNE 01, 2018

COMMONWEALTH OF MASSACHUSETTS
SEAN P. KELLEY
CIVIL
No. 41340
REGISTERED PROFESSIONAL ENGINEER
6-6-2018

ISSUED FOR NOTICE OF INTENT

SHEET: GN-300

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TK-3086	NEW BEDFORD MAIN LINE	TRACK PLAN AND PROFILE, STA. 2864+60 TO STA. 2875+60
TK-3087	NEW BEDFORD MAIN LINE	TRACK PLAN AND PROFILE, STA. 2875+60 TO STA. 2886+60
TK-3088	NEW BEDFORD MAIN LINE	TRACK PLAN AND PROFILE, STA. 2886+60 TO STA. 2891+60
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ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
INDEX SHEET

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE
VERT: NONE
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	MK	KJC

PLAN NO.

SHEET GN-301

ISSUE

Plotted on June 6, 2018 11:20 AM

FILE NAME: \\VHBPROJBOSTON\12815.00 SCR PM & CMCAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(IN).DWG

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 WITHIN 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.

EXISTING CONDITIONS (CONTINUED)

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. CONFIRM EXISTING CONDITIONS AND REPORT ALL DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ENGINEER.
8. UNLESS OTHERWISE NOTED, EXISTING RAILROAD RIGHT-OF-WAY LINES ARE APPROXIMATE AND SHALL BE DETERMINED BY THE CONTRACTOR AND STAKED IN THE FIELD BY A LAND SURVEYOR REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS PRIOR TO THE START OF WORK UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PLACE STAKES ALONG THE RAILROAD RIGHT-OF-WAY AT NO GREATER THAN 50' INTERVALS AND AT EACH CHANGE IN DIRECTION. STAKES SHALL BE MAINTAINED BY THE CONTRACTOR AND REPLACED IF DAMAGED OR REMOVED. ALL PROPERTY LINE DATA HAS BEEN COMPILED FROM AVAILABLE RECORD DRAWINGS AND ASSESSORS INFORMATION AND IS NOT WARRANTED TO BE CORRECT.

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.
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 ABOVE GRADE STRUCTURES, POLES, TRANSFORMERS, ETC. TO BE RELOCATED SHALL BE PLACED AT OR BEYOND THE REQUIRED MBTA STANDARD CLEARANCE FROM THE CENTERLINE OF ANY EXISTING AND FUTURE TRACK.
8. 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.
9. 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.
10. 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.
11. 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.
12. ALL UTILITIES SHOWN ON PLANS SHALL BE RETAINED UNLESS OTHERWISE INDICATED.
13. 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.

SITE PREPARATION

1. MAINTAIN EXISTING DRAINAGE SYSTEM TO THE GREATEST POSSIBLE EXTENT DURING ALL CONSTRUCTION ACTIVITIES.
2. DEMOLITION TO BE PERFORMED IN ACCORDANCE WITH MASSACHUSETTS STATE BUILDING CODE.
3. DISCONNECT ALL UTILITIES AND CAP EXISTING FIELD LINES SUCH AS GAS MAINS, WATER MAINS, AND ELECTRICAL BEFORE STARTING DEMOLITION. COORDINATE THE UTILITY DISCONNECTS WITH THE APPLICABLE UTILITY COMPANY.
4. PROTECT ANY ADJOINING STRUCTURES AND SAFEGUARD THE NEIGHBORING AREAS FROM DUST AND DEBRIS.
5. ALL EXISTING RETAINING WALL FOUNDATIONS, COLUMNS, GRADE BEAMS, GRADE SLABS, ETC. SHALL BE DEMOLISHED UP TO 2' BELOW THE PROPOSED FINISHED GRADE UNLESS OTHERWISE NOTED.
6. ALL DEMOLISHED MATERIALS, RUBBISH, EXCAVATED MATERIALS AND DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
7. DISPOSAL OF HAZARDOUS WASTE SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS, AND PROJECT SPECIFICATIONS. ALL DEMOLISHED MATERIALS SHALL BE DISPOSED OF LEGALLY AS PER PROJECT SPECIFICATIONS.
8. CONTRACTOR SHALL MAINTAIN AND PROTECT SUBSURFACE ENGINEERED BARRIER AND CAP. WHEREVER SOIL OR GROUNDWATER NEEDS TO BE DISTURBED, CONTRACTOR SHALL FOLLOW REGULATORY APPROVALS (SUCH AS A RELEASE ABATEMENT MEASURE PLAN), PER SITE LICENSED SITE PROFESSIONAL (LSP).

TRACK AND RAILROAD

1. THE CONTRACTOR SHALL NOT ENTER ONTO RAILROAD RIGHT-OF-WAY WITHOUT PERMISSION OF OPERATING RAILROAD NOR WITHOUT AN APPOINTED RAILROAD FLAGMAN ON DUTY.
2. LIMITS OF TIE-IN POINTS INTO EXISTING TRACKWORK ARE APPROXIMATE. ACTUAL LIMITS SHALL BE DETERMINED IN FINAL DESIGN AND SHALL CONSIST OF A WELD CONNECTION.
3. EXISTING TRACK CONSISTS OF VARIOUS SIZES OF WELDED AND JOINTED RAIL, SINGLE AND DOUBLE SHOULDER TIE PLATES, RAIL ANCHORS OF VARIOUS TYPES, TIMBER AND CONCRETE TIES, AND SOME GAUGE BARS.
4. PROPOSED COMMUTER RAIL TRACKS SHALL CONSIST OF 136# RE CWR ON NEW 8'-6" x 7" x 9" PRESSURE TREATED TIMBER CROSSTIES WITH RESILIENT FASTENERS.
5. BRIDGE GUARD RAIL WILL CONSIST OF 115# RE SECONDHAND RAIL.
6. TIES ON ALL PROPOSED TRACK CONSTRUCTION SHALL BE AT 19.5" CENTER TO CENTER SPACING EXCEPT WITHIN THE LIMITS OF BRIDGE GUARD RAIL AND AT-GRADE ROADWAY CROSSINGS WHERE SPACING SHALL BE 18".
7. LINE SIDE OF THE TRACK SHALL BE THE RIGHT SIDE LOOKING UPSTATION (SOUTHERLY).
8. LEFT AND RIGHT SHALL BE THE LEFT AND RIGHT SIDES OF THE TRACK LOOKING UPSTATION (SOUTHERLY).
9. RAILROAD PROFILE GRADE LINE OF TRACK IS THE TOP OF LOW RAIL IN ALL CASES.
10. COMPROMISE CONNECTIONS FOR TRACK WILL CONSIST OF ONE 39' LENGTH OF 132# RE RAIL AND PAIRS OF COMPROMISE BARS FOR EACH RAIL. SEE MBTA STANDARD DRAWING No. 1328 FOR DETAILS.
11. STANDARD TRACK GAUGE SHALL BE 4'-8 1/2" WHEN MEASURED BETWEEN THE RUNNING EDGES, 5/8" BELOW THE TOP OF RAIL FOR THE COMMUTER RAIL.
12. THE CONTRACTOR SHALL REFER TO AND COMPLY WITH THE CURRENT ISSUE OF MASSACHUSETTS BAY TRANSPORTATION AUTHORITY RAIL OPERATIONS BOOK OF STANDARD PLANS FOR TRACK DETAILS RELATED TO THE FOLLOWING ELEMENTS: TIES, TIE SPACING AND SPIKING, SPIKES, TIE PLATES, FASTENERS, RAIL, AND ALL TURNOUT LAYOUTS AND DETAILS CORRESPONDING TO THE TURNOUT PROPOSED IN THESE PLANS.
13. ALL PROPOSED CROSS SECTION EMBANKMENT SLOPES ARE 2:1, UNLESS SPECIFICALLY DENOTED OTHERWISE.

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
GENERAL NOTES

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB 99 HIGH STREET BOSTON, MA 02110 (617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: NONE
VERT: NONE
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.
SHEET GN-302
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FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVWO\ NEW BEDFORD\SEGMENT3_EV(GN).DWG

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 ℄)	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

ABBREVIATIONS (cont.)

GENERAL

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
WPA	WETLANDS PROTECTION ACT
X-SECT	CROSS SECTION

RAILROAD TRACK / SIGNAL ABBREVIATIONS

CS	CURVE TO SPIRAL
CWR	CONTINUOUSLY WELDED RAIL
Ea	ACTUAL SUPERELEVATION
LB.	POUND
LVC	LENGTH OF VERTICAL CURVE
PS	POINT OF SWITCH
r	RATE OF CHANGE
R	RADIUS
RE	AREMA (AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION)
SC	SPIRAL TO CURVE
S.E.	SUPER ELEVATION
ST	SPIRAL TO TANGENT
STA	STATION
TS	TANGENT TO SPIRAL
T/R	TOP OF RAIL

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

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
ABBREVIATIONS SHEET

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: NONE	ADZ	RRD	KJC
VERT: NONE			
DATE: 06/01/2018			

PLAN NO.

SHEET GN-303

ISSUE

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GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
JB	JB	JERSEY BARRIER
CB	CB	CATCH BASIN
		CATCH BASIN CURB INLET
FP	FP	FLAG POLE
GP	GP	GAS PUMP
MB	MB	MAIL BOX
		POST SQUARE
		POST CIRCULAR
WELL	WELL	WELL
EHH	EHH	ELECTRIC HANDHOLE
		FENCE GATE POST
GG	GG	GAS GATE
BHL #	BHL #	BORING HOLE
MW #	MW #	MONITORING WELL
TP #	TP #	TEST PIT
		HYDRANT
		LIGHT POLE
CO.BD.		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
MHB	MHB	MASSACHUSETTS HIGHWAY BOUND
MON		MONUMENT
SB		STONE BOUND
TB		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
TPL or GUY	TPL or GUY	TROLLEY POLE OR GUY POLE
HTP		TRANSMISSION POLE
UFB	UFB	UTILITY POLE W/ FIREBOX
UPDL	UPDL	UTILITY POLE WITH DOUBLE LIGHT
ULT	ULT	UTILITY POLE W / 1 LIGHT
UPL	UPL	UTILITY POLE
		BUSH
SIZE & TYPE		TREE
		STUMP
		SWAMP / MARSH
WG	WG	WATER GATE
PM	PM	PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
99 / 100		CONTOURS (ON-THE-GROUND SURVEY DATA)
99 / 100		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
x	x	CHAIN LINK OR METAL FENCE
		WOOD FENCE
x	x	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
	PS	POINT OF SWITCH
#10		POINT OF SWITCH - MANUAL WITH ELECTRIC LOK - POS
#10		POINT OF SWITCH - POWERED - POS
		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
RRSG	RRSG	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
	SL	STOP LINE
	CW	CROSSWALK
	SWL	SOLID WHITE LINE
	SYL	SOLID YELLOW LINE
	DBWL	DOUBLE WHITE LINE
	DBYL	DOUBLE YELLOW LINE
RXR	RXR	RAILROAD GRADE CROSSING

ENVIRONMENTAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		LIMIT OF GRADING
	EC EC EC EC EC	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 LUW IMPACT
		TEMPORARY LUW IMPACT
		BLSF IMPACT
		TEMPORARY BLSF IMPACT

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
LEGEND SHEET

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

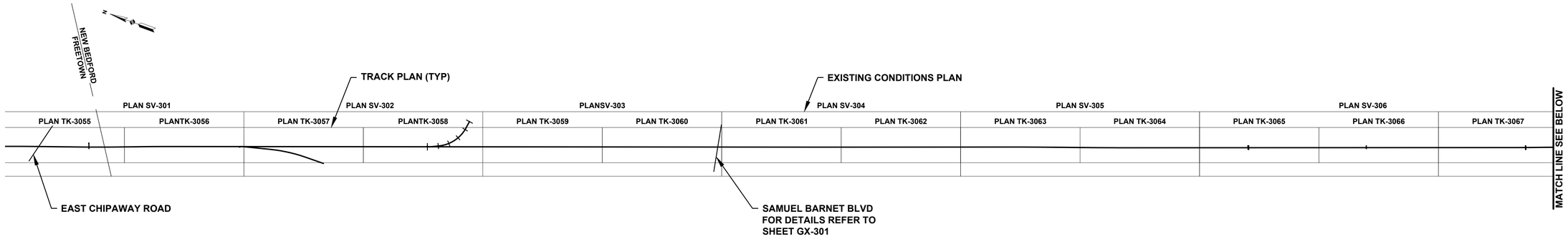
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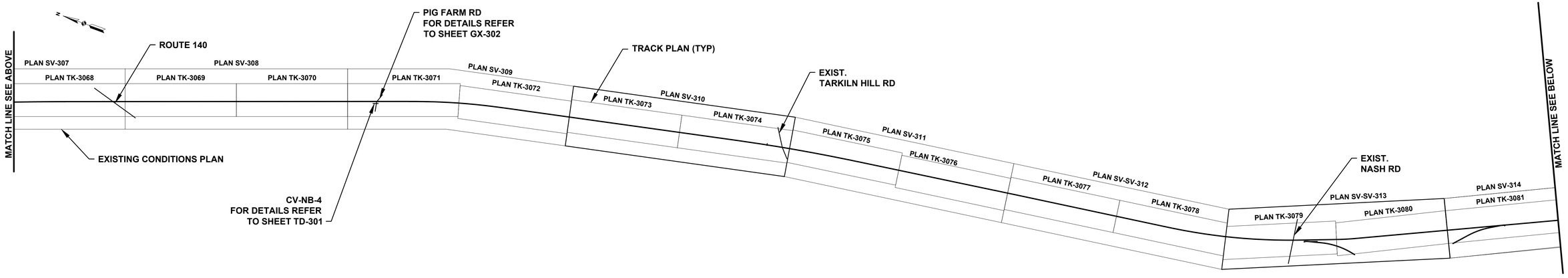
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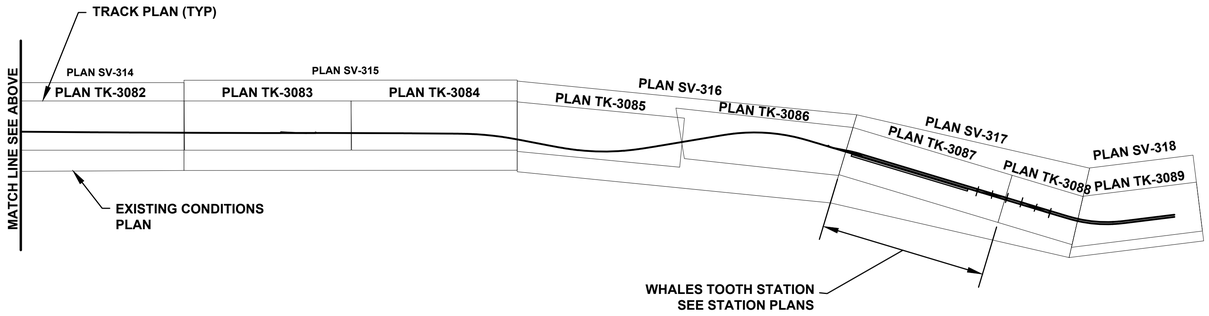
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0 500 1000 1500 2000

SCALE: 1" = 500'

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
KEY PLAN

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

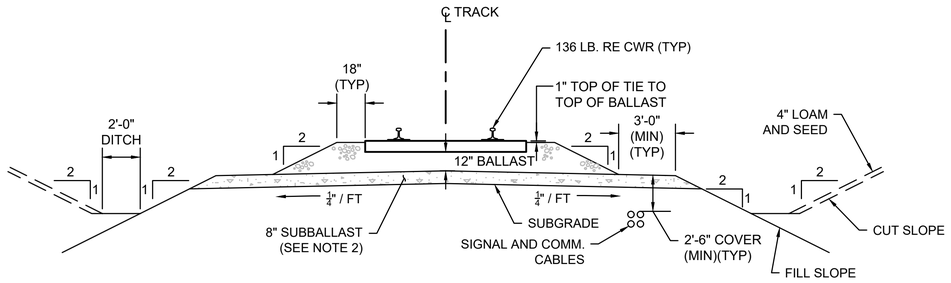
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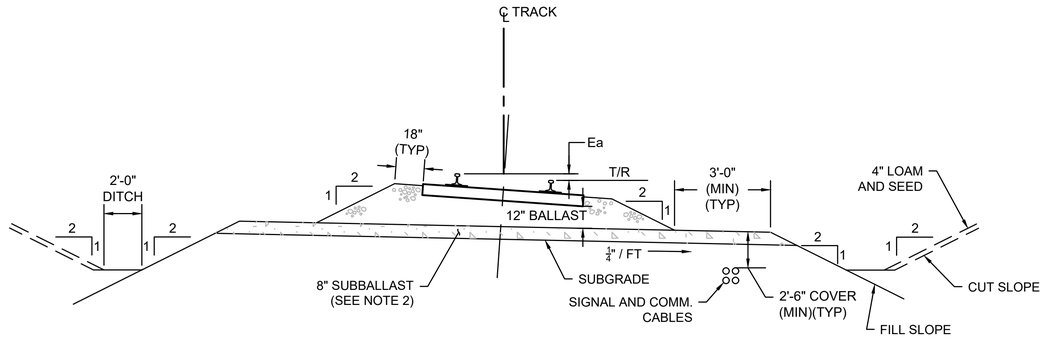
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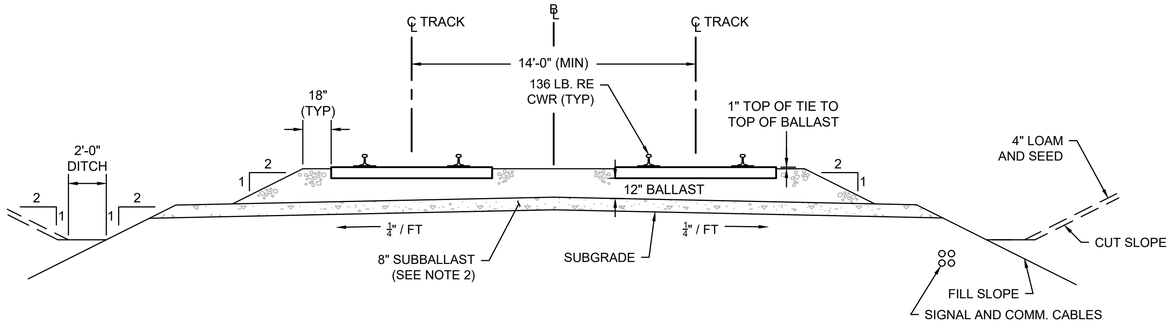
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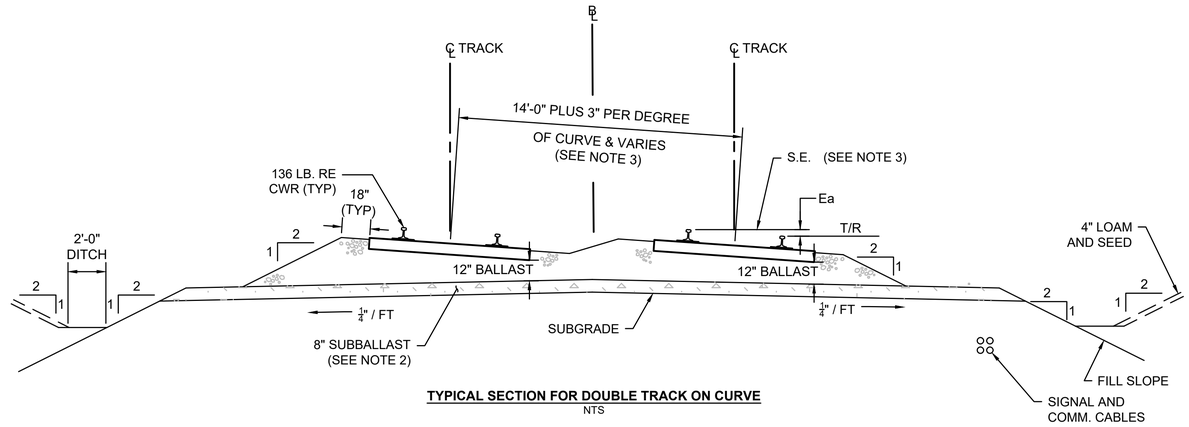
TYPICAL SECTION FOR SINGLE TRACK ON TANGENT
NTS



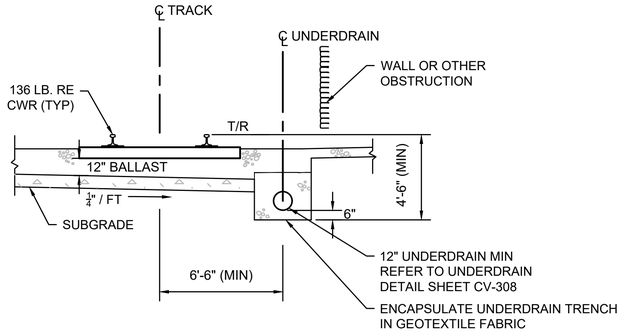
TYPICAL SECTION FOR SINGLE TRACK ON CURVE
NTS



TYPICAL SECTION FOR DOUBLE TRACK ON TANGENT
NTS



TYPICAL SECTION FOR DOUBLE TRACK ON CURVE
NTS



SECTION WHEN SIDE DITCH IS NOT POSSIBLE
NTS

NOTES:

1. AT LOCATIONS WHERE SUFFICIENT SIDE DITCH IS NOT POSSIBLE, USE PERFORATED PIPE UNDERDRAIN (12" MIN. DIA.)
2. IN NEW CONSTRUCTION, WHEN SUBGRADE CONDITIONS WARRANT THE USE OF GEOTEXTILE FABRIC, PLACE THE FABRIC BENEATH THE SUBBALLAST.
3. WHENEVER THE OUTSIDE TRACK HAS THE GREATER SUPERELEVATION, INCREASE THE TRACK CENTERS 3 ½" PER 1" OF SUPERELEVATION DIFFERENCE.

FULL DEPTH TRACK CONSTRUCTION

FROM STATION 2614+50 TO STATION 2683+50
FROM STATION 2743+50 TO STATION 2751+50
FROM STATION 2789+50 TO STATION 2792+00

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TYPICAL SECTIONS 1

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

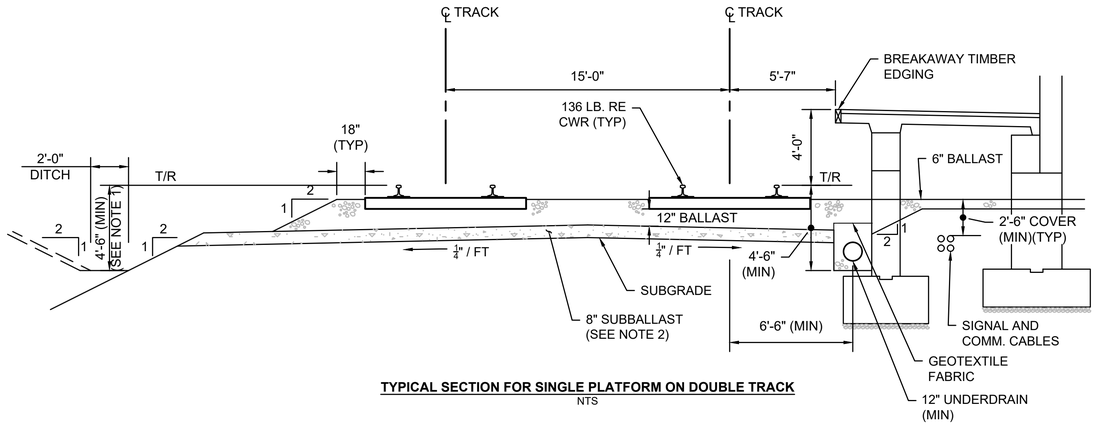
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99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

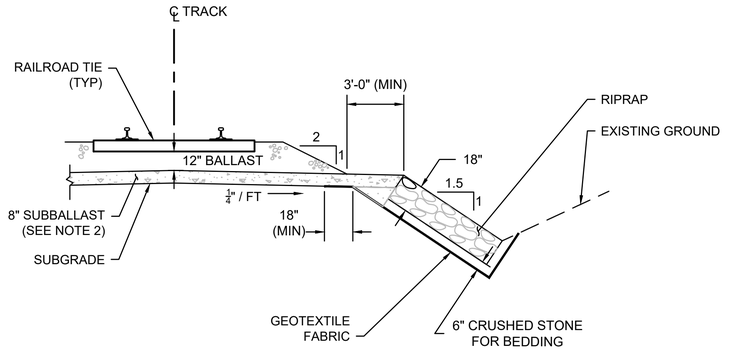
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: NONE	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET CV-302	

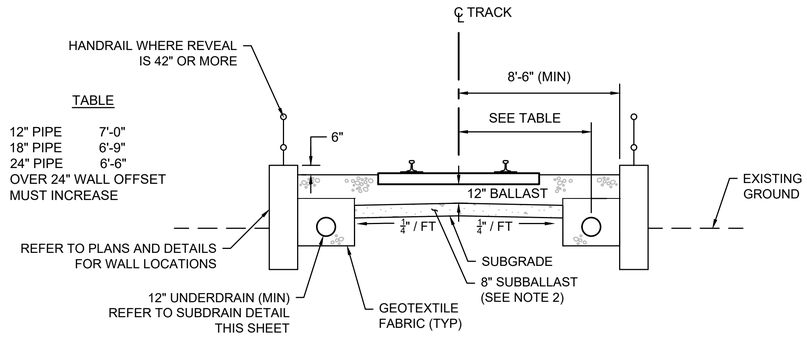
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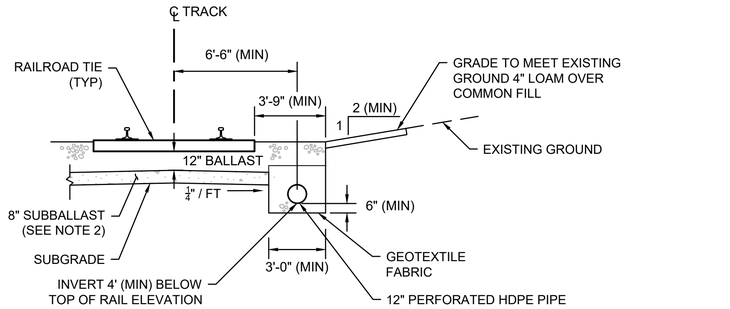
TYPICAL SECTION FOR SINGLE PLATFORM ON DOUBLE TRACK
NTS



TYPICAL SECTION WITH RIPRAP END TREATMENT
NTS



TYPICAL SECTION FOR TRACK WITH RETAINING WALLS
NTS



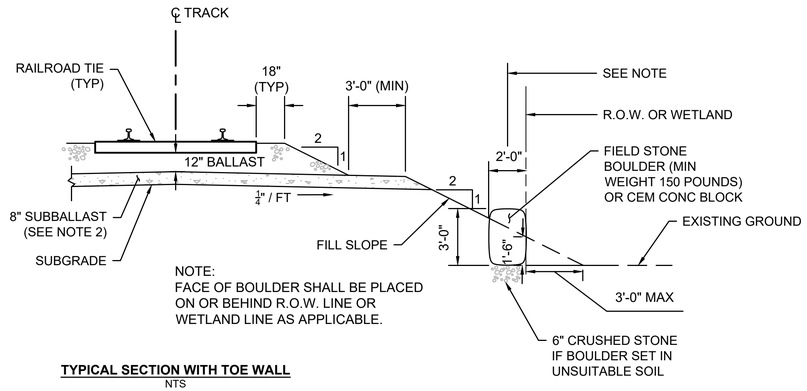
TYPICAL TRACK SUBDRAIN
NTS

NOTES:

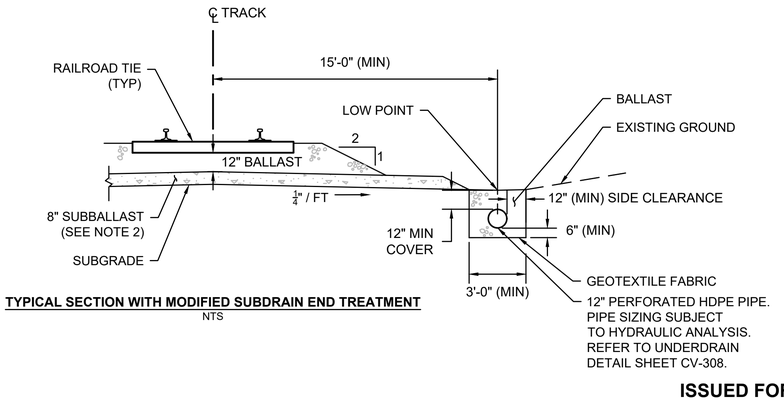
1 SEE STRUCTURAL DRAWINGS FOR ACTUAL PLATFORM DIMENSIONS.

2 TOP OF FOUNDATION ELEVATION TO MATCH THAT OF THE HIGH RAIL.

3 WALL IS TO EXTEND OUTWARD AND AROUND ALL OCS POLES AND FOUNDATIONS.



TYPICAL SECTION WITH TOE WALL
NTS



TYPICAL SECTION WITH MODIFIED SUBDRAIN END TREATMENT
NTS

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TYPICAL SECTIONS 2

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

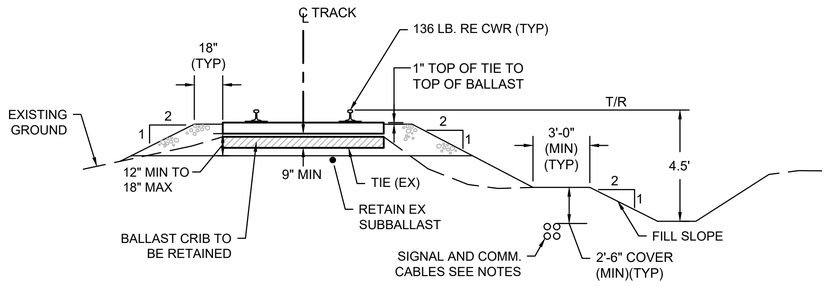
PLAN NO.

SHEET CV-303

ISSUE

Plotted on: June 4, 2018 11:57 AM

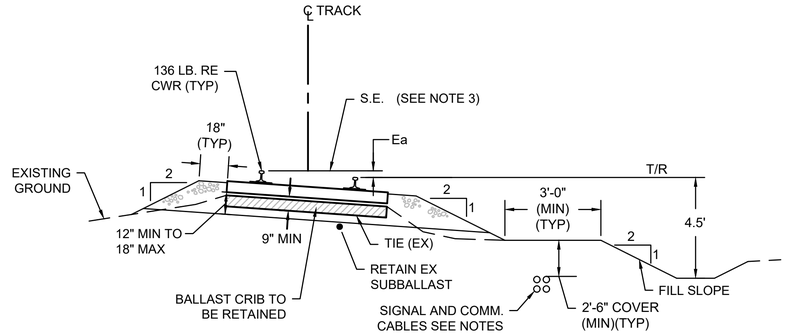
FILE NAME: \\VHBPRO\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_EV(TYP).DWG



MODIFIED TRACK SECTION

TYPICAL SECTION FOR SINGLE TRACK ON TANGENT

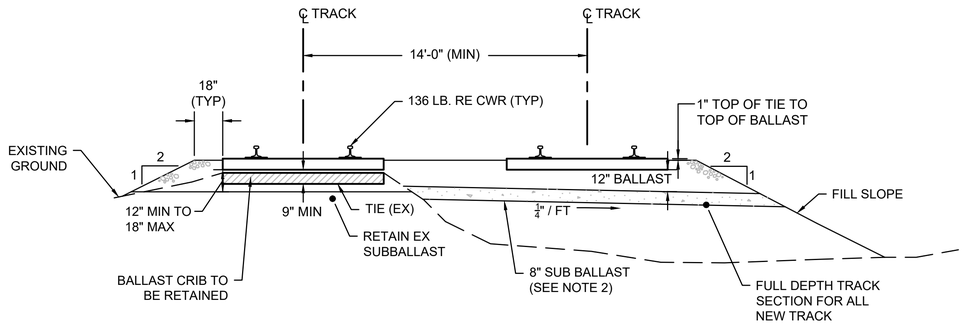
NTS



MODIFIED TRACK SECTION

TYPICAL SECTION FOR SINGLE TRACK ON CURVE

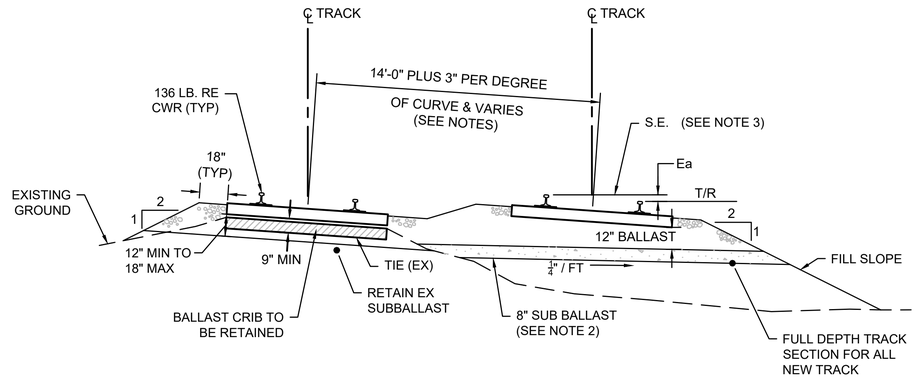
NTS



MODIFIED TRACK SECTION

TYPICAL SECTION FOR DOUBLE TRACK ON TANGENT

NTS



MODIFIED TRACK SECTION

TYPICAL SECTION FOR DOUBLE TRACK ON CURVE

NTS

NOTES:

1. AT LOCATIONS WHERE SUFFICIENT SIDE DITCH IS NOT POSSIBLE, USE PERFORATED PIPE UNDERDRAIN (12" MIN. DIA.)
2. IN NEW CONSTRUCTION, WHEN SUBGRADE CONDITIONS WARRANT THE USE OF GEOTEXTILE FABRIC, PLACE THE FABRIC BENEATH THE SUBBALLAST.
3. WHENEVER THE OUTSIDE TRACK HAS THE GREATER SUPERELEVATION, INCREASE THE TRACK CENTERS 3 $\frac{1}{2}$" PER 1" OF SUPERELEVATION DIFFERENCE.

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TYPICAL SECTIONS 3

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.
	8/31/17				

Vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

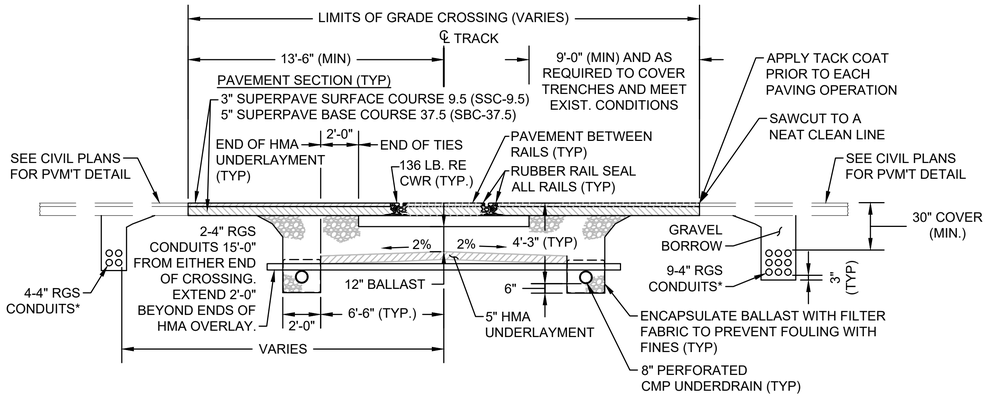
APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: NONE	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET CV-304	

Plotted on June 4, 2018 11:57 AM

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(TYP).DWG



TYPICAL SECTION FOR SINGLE TRACK RUBBER RAIL SEAL CROSSING
NTS

PAVEMENT NOTES

PROPOSED FULL DEPTH PAVEMENT CONSTRUCTION

SURFACE COURSE:	1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
INTERMEDIATE COURSE:	2.5" SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC-19.0)
SUBBASE:	4" CRUSHED STONE
	8" GRAVEL BORROW TYPE B

PROPOSED FULL DEPTH PAVEMENT TRANSITION

SURFACE COURSE:	1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
	1.5" PAVEMENT MICRO MILLING

PROPOSED HOT MIX ASPHALT DRIVEWAY

SURFACE COURSE:	1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
INTERMEDIATE COURSE:	2" SUPERPAVE INTERMEDIATE COURSE - 12.0 (SIC-12.0)
SUBBASE:	8" GRAVEL BORROW - TYPE B

PROPOSED CEM CONC SIDEWALKS & WHEELCHAIR RAMPS

SURFACE COURSE:	4" CEMENT CONCRETE (AIR ENTRAINED 4000 PSI - $\frac{3}{4}$" - 610 LB)
SUBBASE:	8" GRAVEL BORROW - TYPE B

PROPOSED CEM CONC SIDEWALKS AT DRIVEWAYS

SURFACE COURSE:	6" CEMENT CONCRETE (AIR ENTRAINED 4000 PSI - $\frac{3}{4}$" - 610 LB)
SUBBASE:	8" GRAVEL BORROW - TYPE B

MULTI-USE PATH

SURFACE COURSE:	1.5" SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5)
INTERMEDIATE COURSE:	2" SUPERPAVE INTERMEDIATE COURSE - 12.0 (SIC-12.0)
SUBBASE:	8" GRAVEL BORROW TYPE B

ROADWAY NOTES:

1. ALL SUPERPAVE HOT MIX ASPHALT SHALL BE A WARM MIX ASPHALT TECHNOLOGY.
2. ALL MILLED SURFACES SHALL RECEIVE A TACK COAT APPLIED AT 0.07 GALLONS PER SQUARE YARD AND ALL UNMILLED SURFACES SHALL RECEIVE A TACK COAT APPLIED AT 0.05 GALLONS PER SQUARE YARD PRIOR TO PAVING.
3. TEMPORARY CONSTRUCTION SHALL USE SUPERPAVE HOT MIX ASPHALT MIXTURES AND MAY NOT BE SUBJECT TO THE SAME SAMPLING AND TESTING REQUIRED FOR PERMANENT CONSTRUCTION.
4. WHERE EXISTING SUBBASE/SUBGRADE IS FOUND TO MEET SPECIAL BORROW SPECIFICATION REQUIREMENTS, THE EXISTING MATERIAL MAY BE LEFT IN PLACE, AFTER APPROVAL OF THE ENGINEER.

GRADE CROSSING NOTES:

1. EXISTING ASPHALT CROSSING SURFACE TO BE REMOVED AND DISPOSED OF ACCORDING TO ALL STATE AND LOCAL REGULATIONS, AS APPLICABLE.
2. EXISTING INSULATED JOINTS TO BE REMOVED AND REPLACED WITH NEW AS SHOWN ON THE PLANS.
3. SEE MBTA BOOK OF STANDARD PLANS, TRACK AND ROADWAY, DRAWING NO. 3108 FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL INSTALL TRACK TO MATCH PROPOSED TRACK GEOMETRY AND SUPERELEVATIONS.
5. RAILROAD TIES IN CROSSINGS SHALL BE 7" x 9" x 9'-0" LONG SPACED AT 18" ON CENTER.

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TYPICAL SECTIONS 4

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

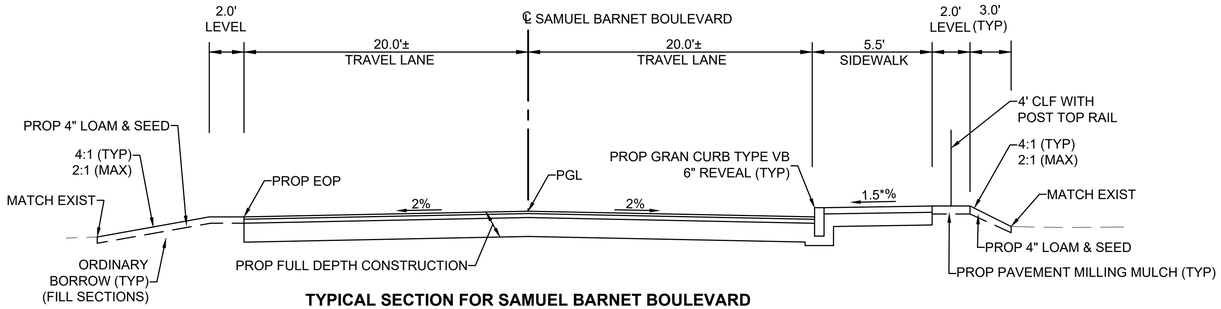
PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

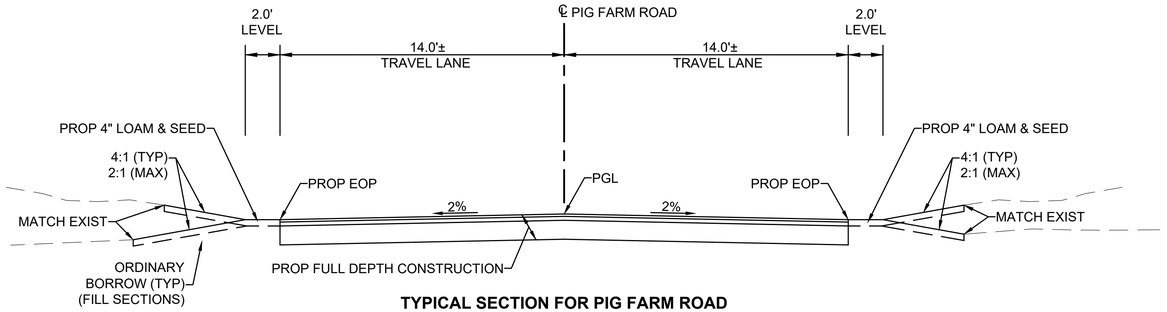
HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	ADZ	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET CV-305
ISSUE

Plotted on June 4, 2018 11:57 AM
FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(TYP-GX).DWG



TYPICAL SECTION FOR SAMUEL BARNET BOULEVARD
NTS



TYPICAL SECTION FOR PIG FARM ROAD
NTS

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TYPICAL SECTIONS 5

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	ADZ	KJC
DATE: 06/01/2018			

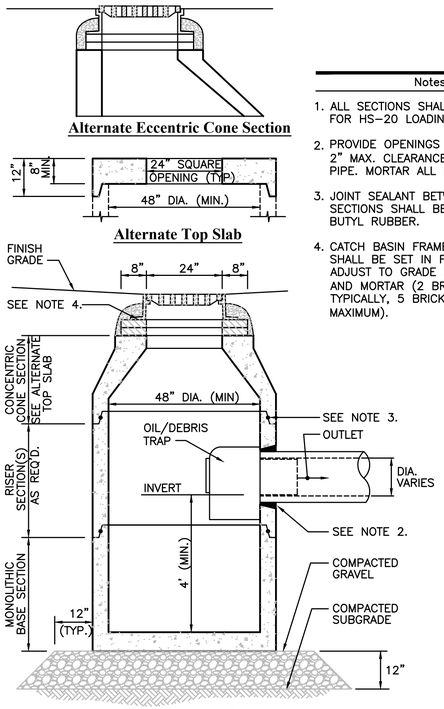
PLAN NO.

SHEET CV-306

ISSUE

Plotted on: June 4, 2018 11:57 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(TYP-GX).DWG

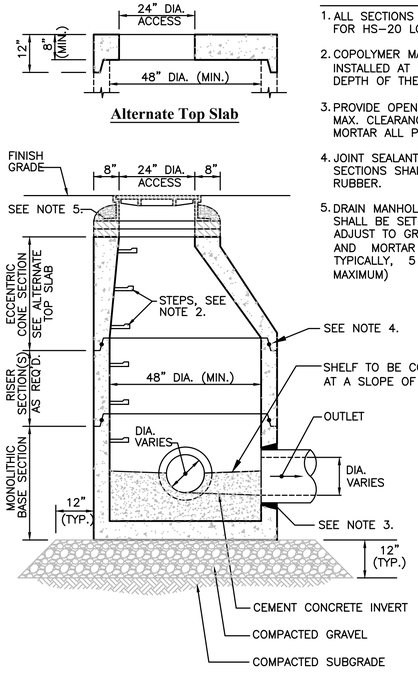


Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. 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).

Catch Basin (CB) with Oil/Debris Trap

SCALE: N.T.S.

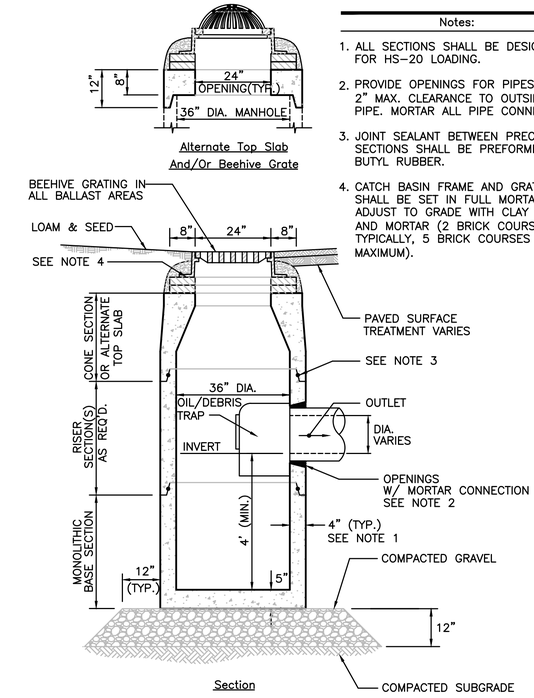


Notes:

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. 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)

Drain Manhole (DMH)

SCALE: N.T.S.

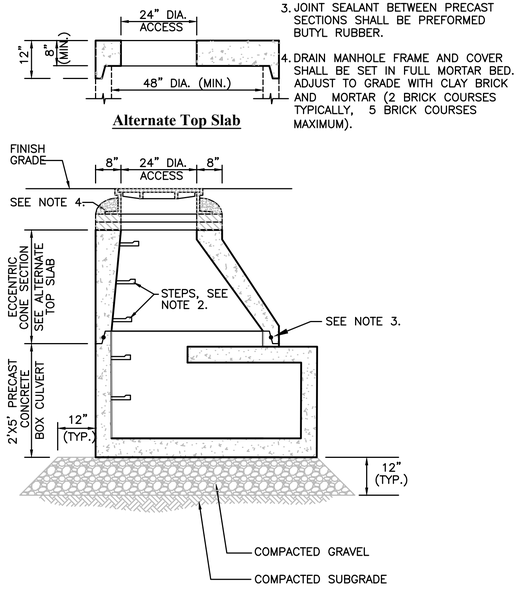


Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. 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).

Ballast Inlet

SCALE: N.T.S.

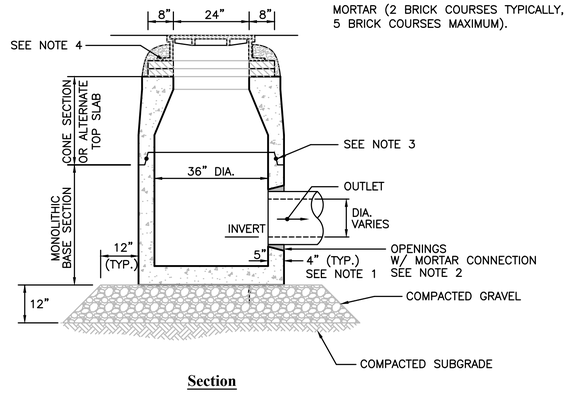


Notes:

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).

Inspection Portal (IP)

SCALE: N.T.S.

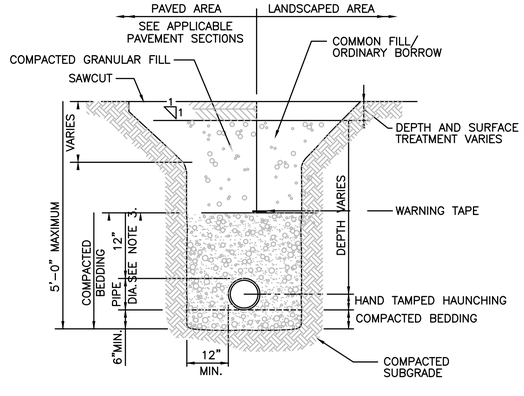


Notes:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CLEANOUT 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).

Cleanout

SCALE: N.T.S.



Notes:

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
3. FOR HDPE PIPE, DIMENSION IS 24 INCHES.

Utility Trench

SCALE: N.T.S.

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
DETAILS 1

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

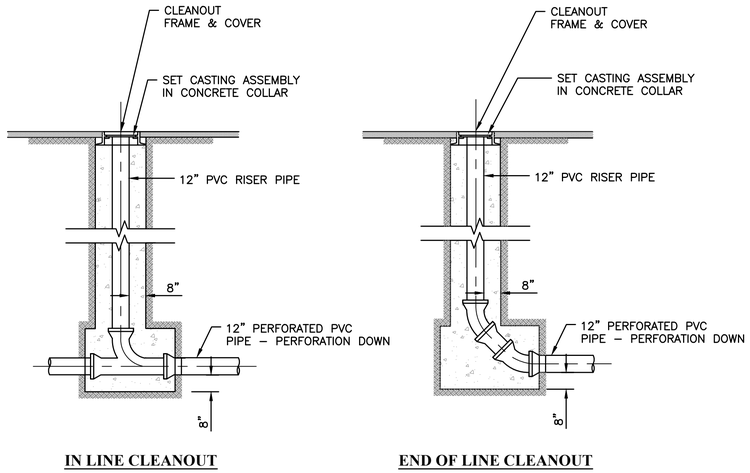
PLAN NO.

SHEET CV-307

ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SD(DET1).DWG

Plotted on: June 4, 2018 2:06 PM



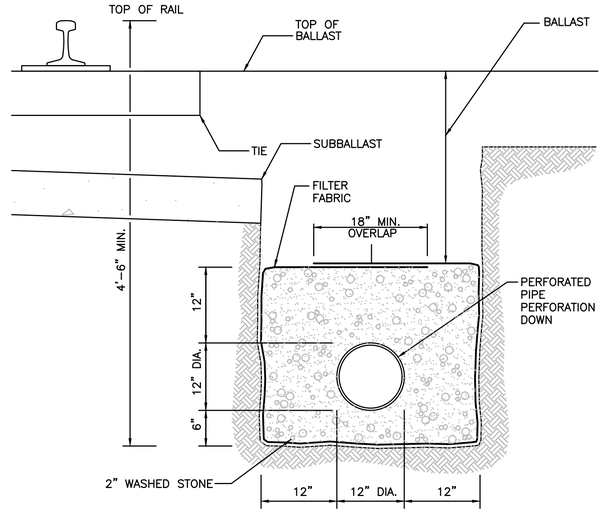
IN LINE CLEANOUT **END OF LINE CLEANOUT**

NOTE:

CLEANOUT TOP SHALL BE ENCLOSED IN CASTING AND/OR FABRICATED COVER ASSEMBLY.

Wye Cleanout - Track Underdrain Detail

SCALE: N.T.S.

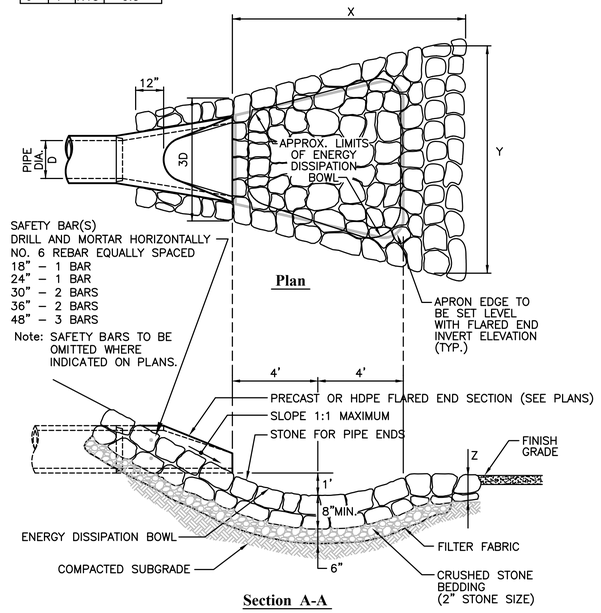


Underdrain (UD)

SCALE: N.T.S.

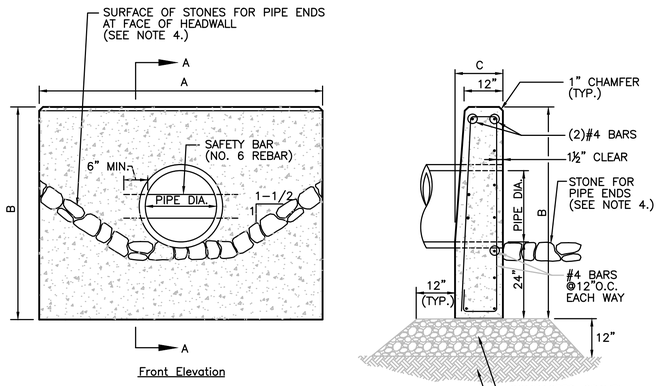
X	Y	Z	STONE DIA. (D50)
6'	7'	1.13'	0.5'

NOTE: REFER TO GRADING AND UTILITY PLANS FOR OTHER STONE PROTECTION DIMENSIONS



Flared End Section (F.E.) with Stone Protection

SCALE: N.T.S.



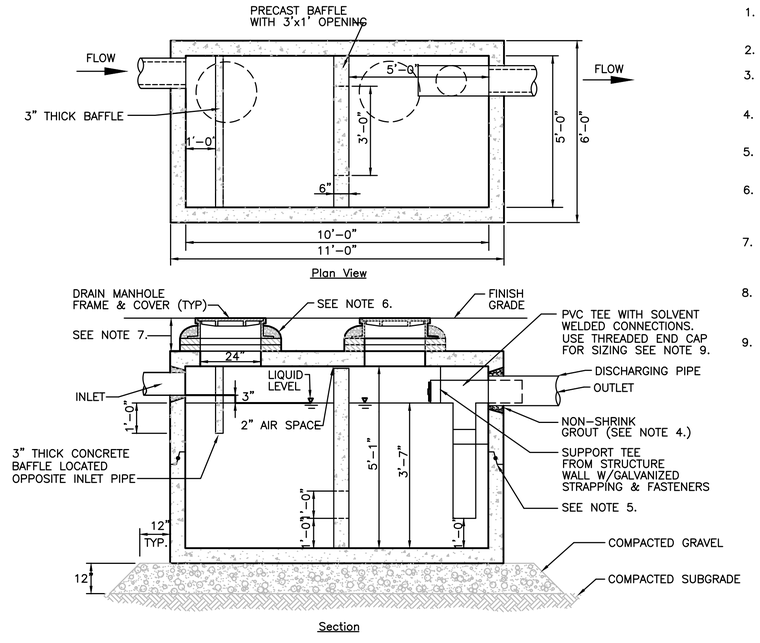
Dimensional Table				
PIPE DIA.	A	B	C	# OF SAFETY BARS
12"	5'–6"	4'–2"	1'–6"	–
15"	6'–6"	4'–5"	1'–6"	–
18"	7'–6"	4'–9"	1'–6"	1
24"	9'–0"	5'–3"	1'–6"	1
30"	11'–0"	5'–10"	1'–6"	2
36"	13'–0"	6'–4"	1'–9"	2
42"	15'–9"	6'–11"	1'–9"	3
48"	17'–9"	7'–5"	2'–0"	3
60"	21'–9"	8'–6"	2'–6"	4
72"	25'–9"	9'–7"	3'–0"	5

Notes:

1. CONCRETE SHALL BE MINIMUM COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
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 FES DETAIL.

Concrete Headwall (HW)

SCALE: N.T.S.



Oil/Water Separator

SCALE: N.T.S.

Notes:

1. OIL/WATER SEPARATOR SHALL BE A STANDARD PRECAST SEPTIC TANK WITH PRECAST BAFFLES AS SHOWN.
2. STRUCTURE SHALL BE DESIGNED FOR HS–20 LOADING.
3. SEE PLANS FOR ACTUAL DISPOSITION OF PIPING LAYOUT FOR COORDINATION OF MANHOLE ACCESS AND BAFFLE.
4. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
5. JOINT SEALANT BETWEEN ALL SECTIONS SHALL BE PREFORMED BUTYL RUBBER
6. STANDARD 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).
7. STANDARD BARREL BLOCK AND MORTAR SHALL BE USED TO BRING MANHOLE FRAME AND COVER TO FINISHED GRADE WHEN DEPTH TO TOP OF STRUCTURE EXCEEDS 18 INCHES.
8. WHEN CONNECTING TO DISCHARGE PIPE THE PVC OUTLET TEE AND PIPE SHALL BE SIZED TO FIT SNUGGLY INSIDE THE DISCHARGE PIPE AND THE JOINT SHALL BE SEALED WITH NON–SHRINK CEMENT GROUT.
9. GEOMETRY OF PIPING AND LOCATION OF BAFFLES AND MANHOLE ACCESS TO BE CONSISTENT WITH UTILITY PLAN.

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
DETAILS 2

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE
VERT: NONE
DATE: 06/01/2018

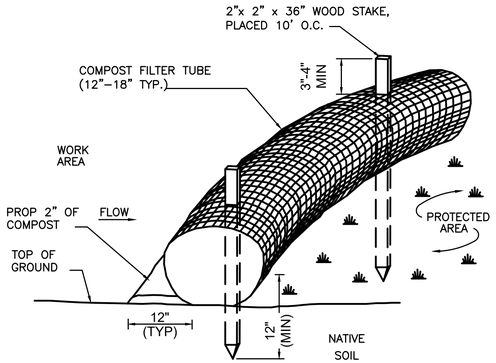
DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.

SHEET CV-308

ISSUE

Plotted on: June 4, 2018 2:06 PM
FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SD(DET1).DWG

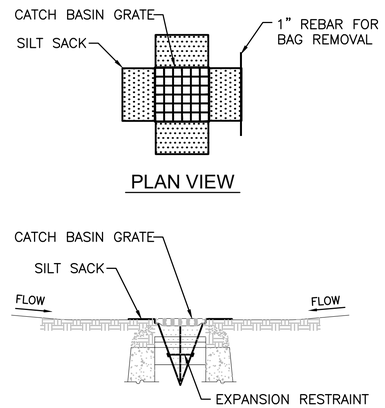


NOTES:

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.

Linear Sedimentation and Erosion Control

SCALE: N.T.S.

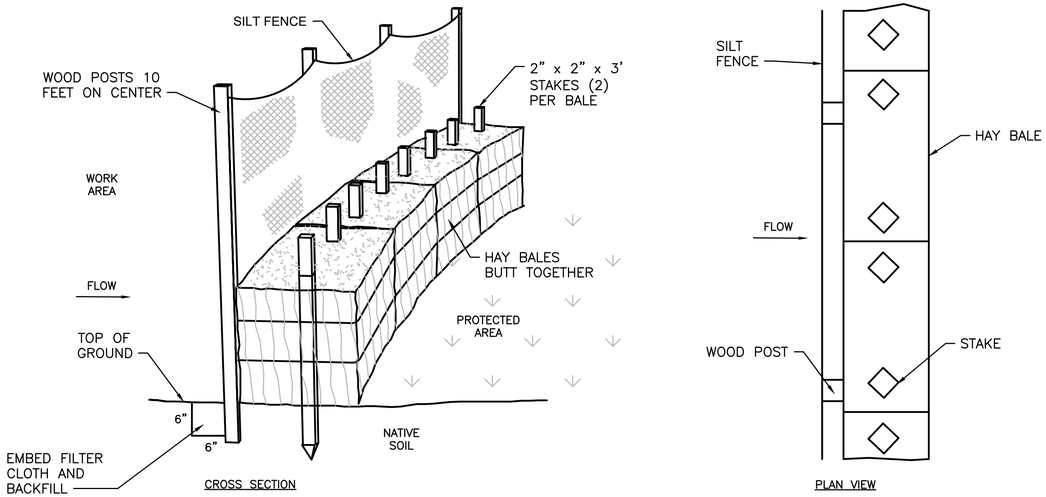


NOTES:

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 A PERMANENT STAND OF GRASS HAS BEEN ESTABLISHED.
2. GRATE TO BE PLACED OVER SILT SACK.
3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED

Inlet Protection - Silt Sack In Catch Basin

SCALE: N.T.S.

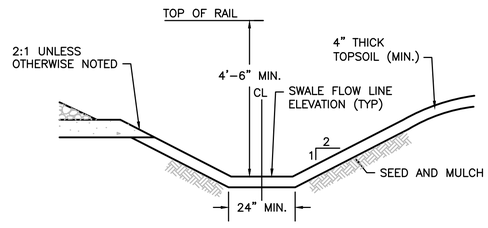


CONSTRUCTION NOTES:

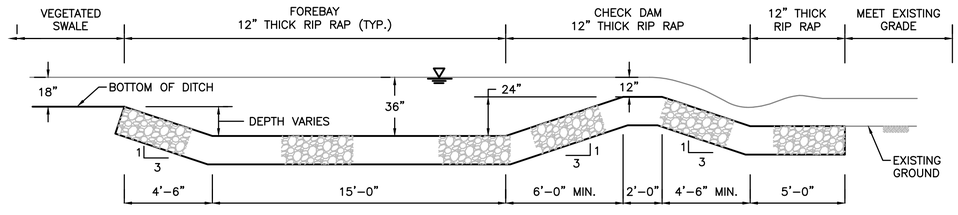
1. FILTER CLOTH SHALL BE FASTENED SECURELY TO POSTS WITH WIRE TIES OR STAPLES AND POSTS SHALL BE SPACED EVERY 10 FEET.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
3. ENTRENCH SILT FENCE BUT NOT HAY BALES.
4. INSPECTIONS SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS

Erosion Control Barrier

SCALE: N.T.S.



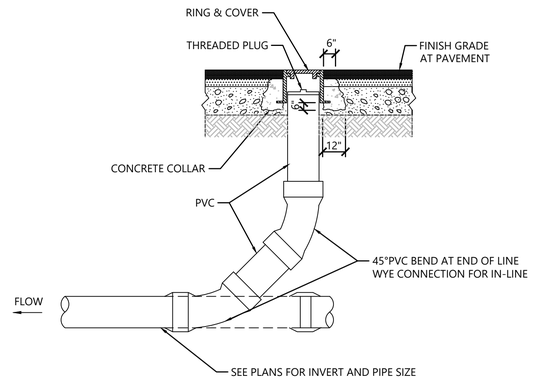
Section



Elevation

Vegetated Swale with Ditch Forebay and Check Dam

SCALE: N.T.S.



Cleanout - Paved Area

SCALE: N.T.S.

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
DETAILS 3

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

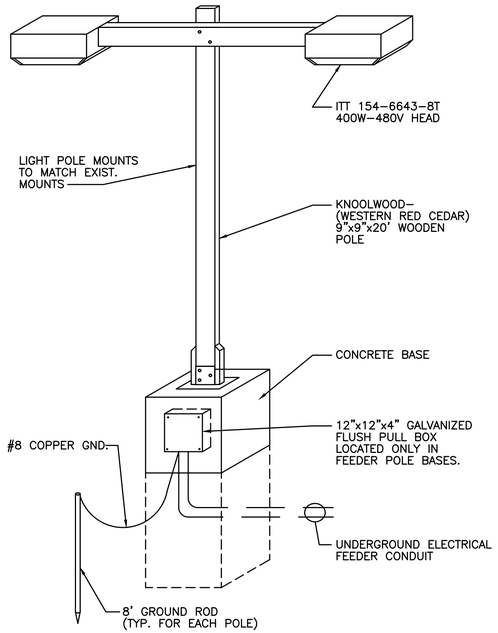
PLAN NO.

SHEET CV-309

ISSUE

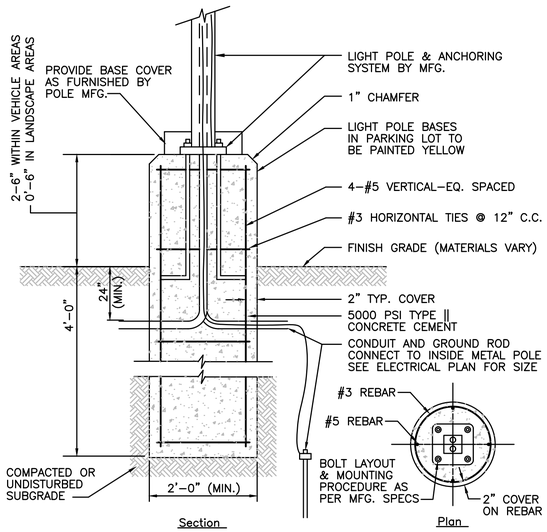
FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SD(DET1).DWG

Plotted on: June 4, 2018 2:06 PM



Light Pole

SCALE: N.T.S.

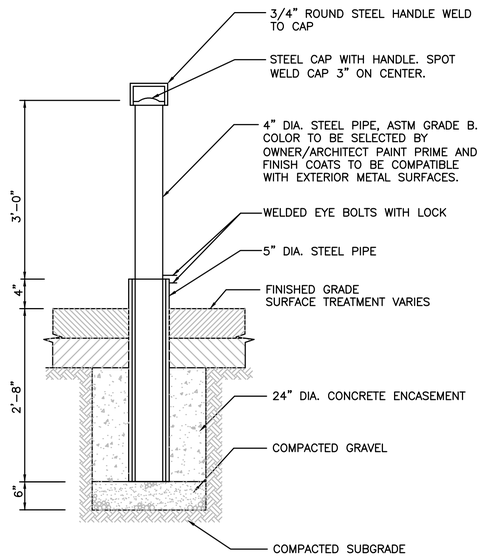


Notes:

LIGHT POLE FOUNDATION DESIGN IS SUBJECT TO CHANGE BASED ON FINAL POLE AND FIXTURE SELECTION AND GEOTECHNICAL SITE INVESTIGATION.

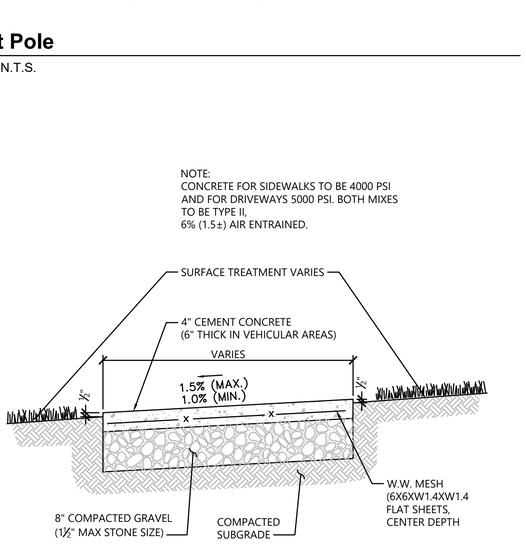
Light Pole Foundation Detail (Up to 15' Pole)

SCALE: N.T.S.



4" Removable Bollard

SCALE: N.T.S.



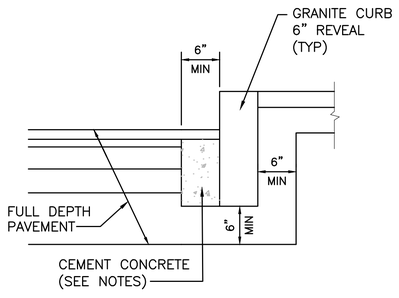
Section

NOTES

1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE- FORMED JOINT FILLER.
2. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO SIDEWALK DIRECTION.

Concrete Sidewalk in Landscape Area

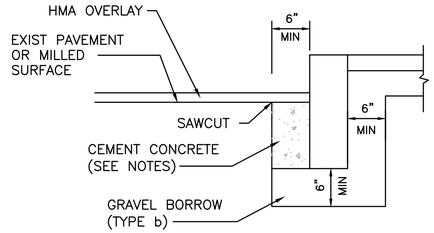
SCALE: N.T.S.



NOTES:
1. TO BE PLACED IF CURB IS INSTALLED AFTER HOT MIX ASPHALT
2. CONCRETE SHALL BE INCLUDED IN PRICE BID FOR GRANITE CURB
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 Full Depth Pavement

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.

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
DETAILS 4

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

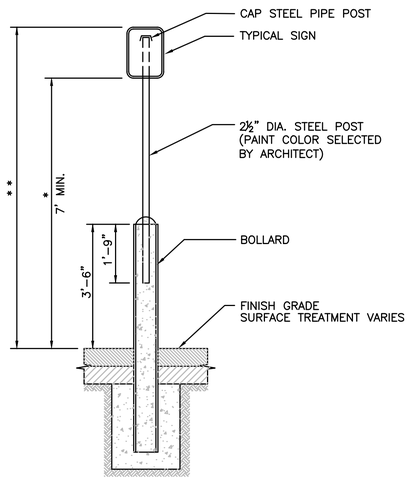
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: NONE	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET CV-310	

Plotted on: June 4, 2018 2:06 PM
FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNO) NEW BEDFORD\SEGMENT3_SD(DET1).DWG

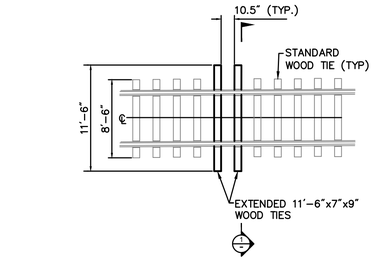


* THIS DIMENSION SHALL BE A MINIMUM OF 5' FOR ACCESSIBLE SIGNAGE.

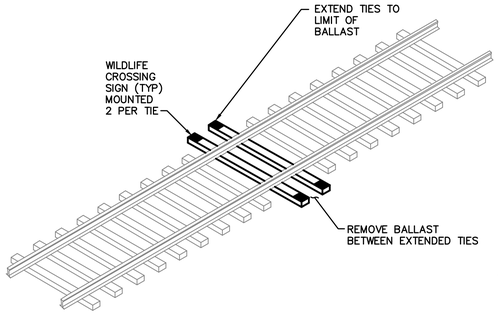
** THIS DIMENSION SHALL BE A MAXIMUM OF 8' FOR ACCESSIBLE SIGNAGE.

Bollard Mounted Sign

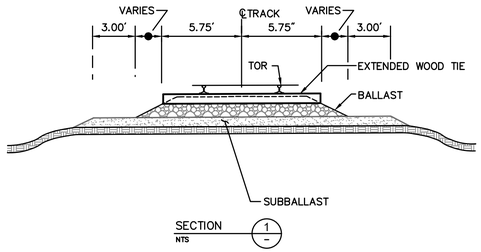
SCALE: N.T.S.



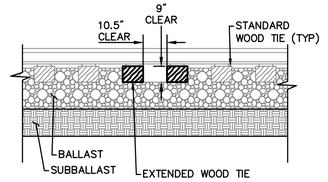
BETWEEN-TIE CROSSING PLAN
NTS



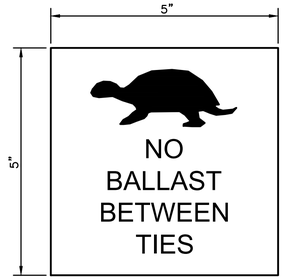
ISOMETRIC VIEW
NTS



NTS



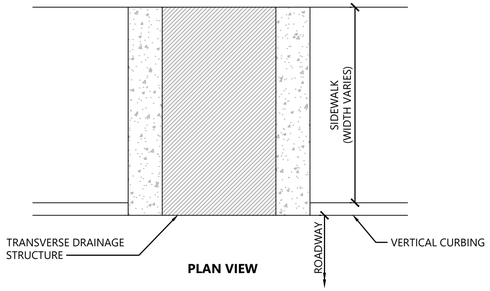
ELEVATION VIEW
NTS



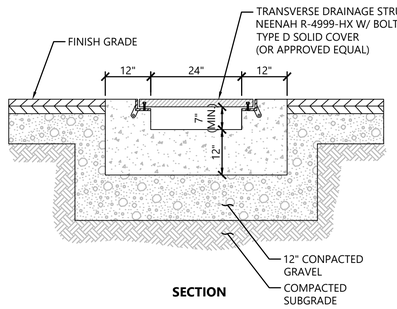
WILDLIFE CROSSING SIGN
NTS

Wildlife Track Crossing

SCALE: N.T.S.



PLAN VIEW



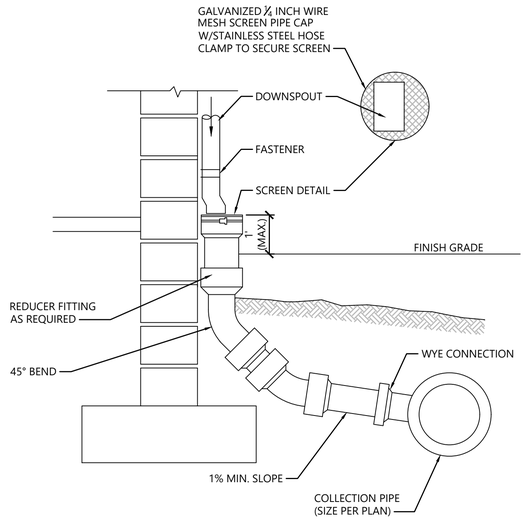
SECTION

NOTES

1. CONSTRUCT IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS
2. INVERT SLOPE SHALL BE SET TO SLOPE AT 1% AWAY FROM ROADWAY

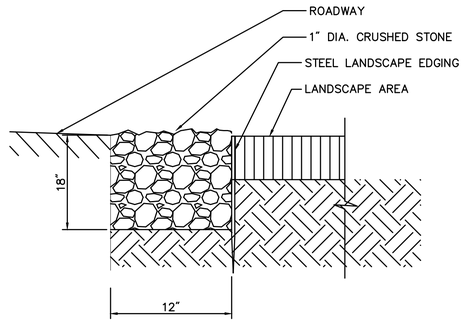
Sidewalk Curb Inlet

SCALE: N.T.S.



Downspout Rain Leader

SCALE: N.T.S.



Stone Diaphragm Pretreatment Filter Strip

SCALE: N.T.S.

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
DETAILS 5

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

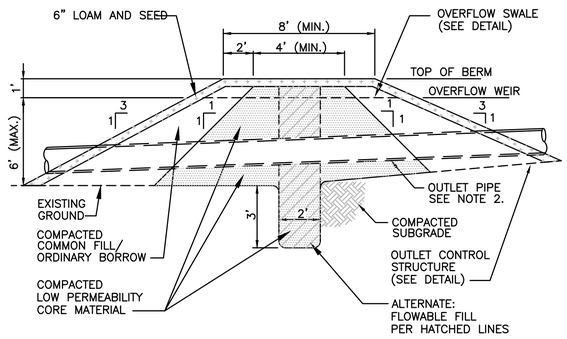
PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: NONE	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET CV-311	

Plotted on: June 6, 2018 - 12:40 PM
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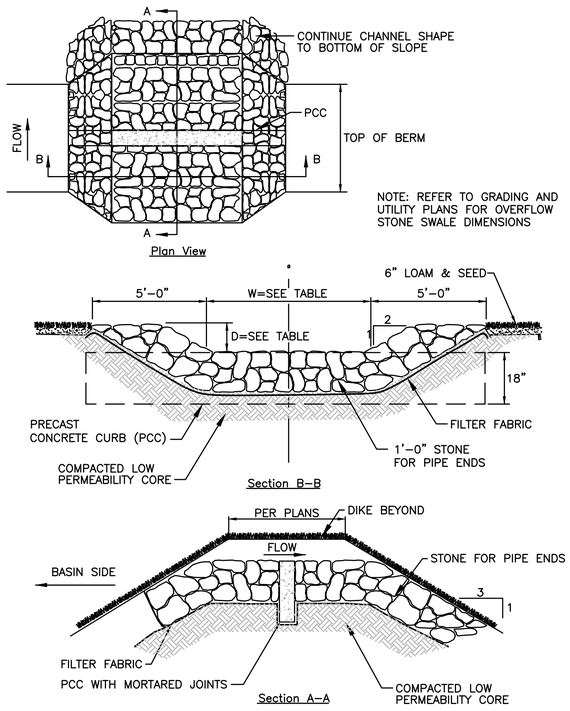


Notes:

1. LOW PERMEABILITY CORE MATERIAL IS CONTINUOUS FOR THE FULL LENGTH OF THE EMBANKMENT.
2. WHERE PIPES PENETRATE THE LOW PERMEABILITY CORE, PIPE SHALL BE BEDDED IN THE LOW PERMEABILITY CORE MATERIAL.
3. THE BERM SECTION IS SUBJECT TO CHANGE AND WILL BE BASED ON THE RESULTS OF FURTHER GEOTECHNICAL INVESTIGATIONS.

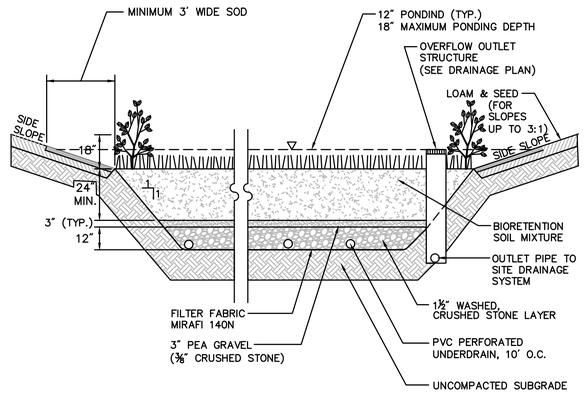
Detention Basin Berm Section

SCALE: N.T.S.



Overflow Stone Swale

SCALE: N.T.S.

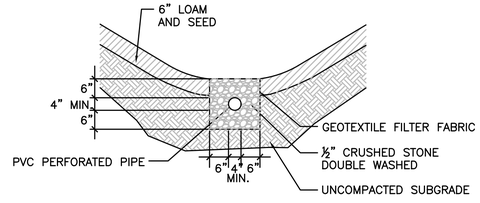


Notes:

1. INSTALL UNDERDRAINS AT 10 FEET ON CENTER. CONNECT TO DRAINS PER PLAN.
2. SIDE SLOPES SHALL BE 3:1 MAX. 2% MIN.

Bioretention Basin

SCALE N.T.S.

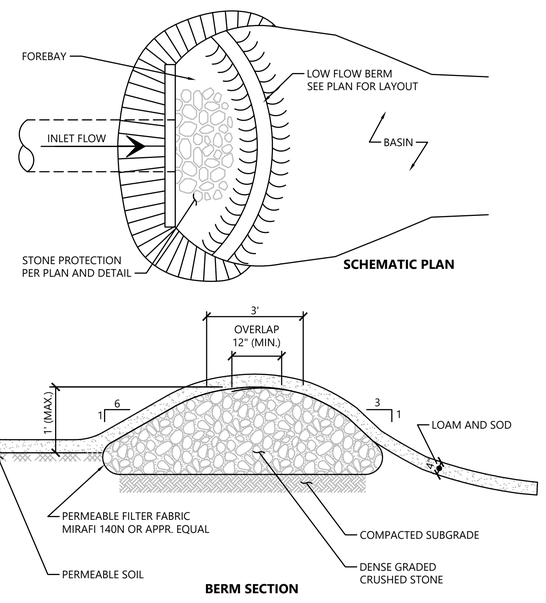


Notes:

1. WHERE SITE PLANS REFERENCE STONE TRENCH DETAIL, USE THIS DETAIL WITHOUT UNDERDRAIN.

Detention Basin Underdrain

SCALE: N.T.S.

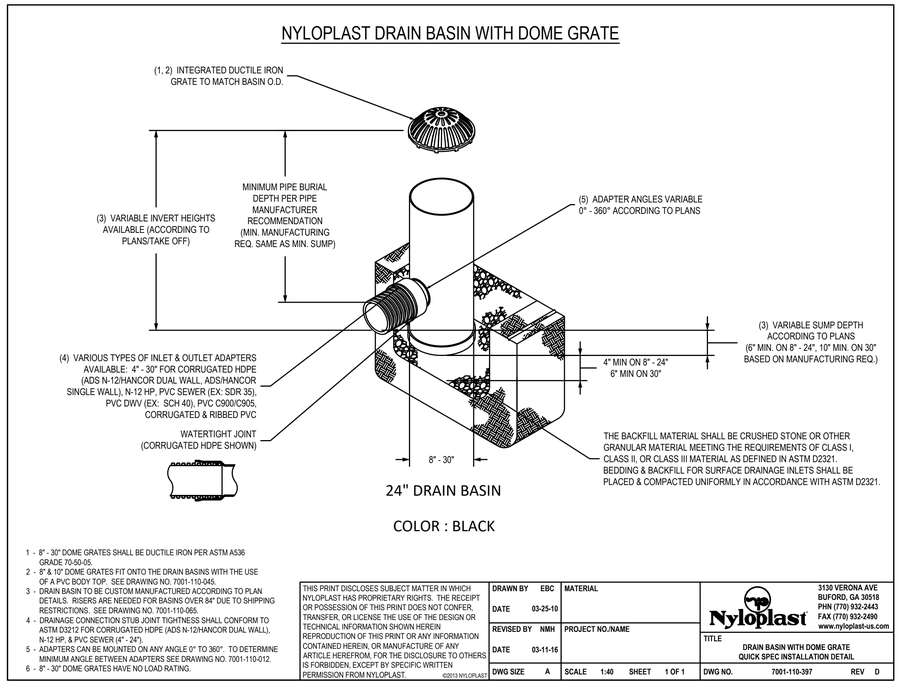


NOTES

1. FOREBAY DESIGNED TO CAPTURE 0.1 INCHES OF RUNOFF FROM IMPERVIOUS SURFACES

Low Flow Sediment Forebay Berm

SCALE: N.T.S.



1 - 8" - 30" DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 8" & 10" DOME GRATES FIT ONTO THE DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 8" - 30" DOME GRATES HAVE NO LOAD RATING.

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DRAWN BY	EBC
DATE	03-25-10
REVISED BY	NMH
DATE	03-11-16
DWG SIZE	A
MATERIAL	
PROJECT NO./NAME	
SCALE	1:40
SHEET	1 OF 1

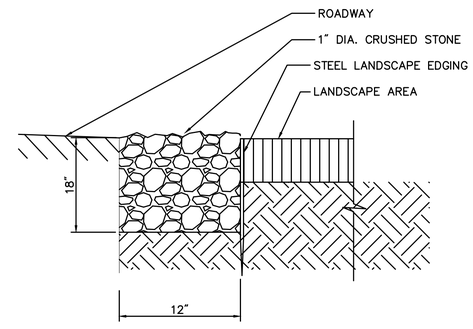
Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN WITH DOME GRATE
QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-397 REV D

Area Drain (AD)

SCALE: N.T.S.



Stone Diaphragm Pretreatment Filter Strip

SCALE: N.T.S.

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
DETAILS 6

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

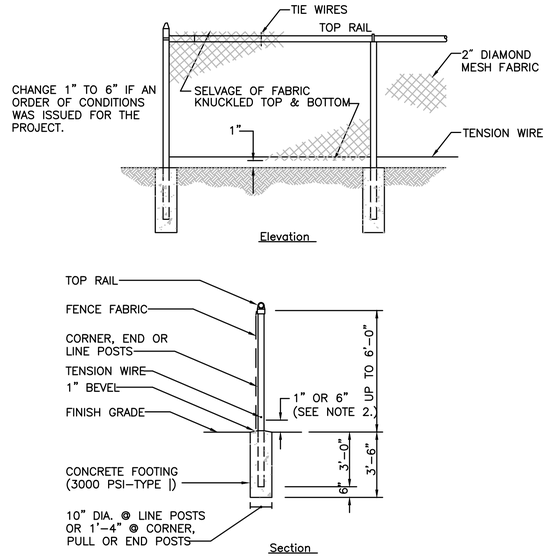
PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET CV-312
ISSUE

Plotted on: June 4, 2018 2:06 PM
FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SD(DET1).DWG

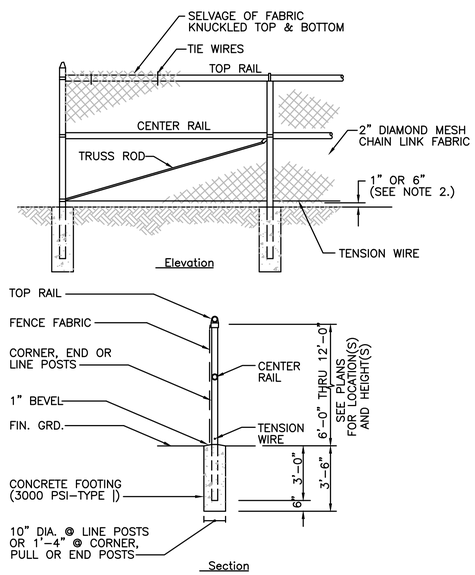


Note:

1. MATERIALS TO BE SUPPLIED AND INSTALLED IN CONFORMANCE WITH "CHAIN LINK MANUFACTURER'S INSTITUTE" PRODUCT MANUAL.
2. PROVIDE 6" OF CLEARANCE BETWEEN THE BOTTOM OF FABRIC AND FINISH GRADE AROUND BMP IF AN ORDER OF CONDITIONS WAS ISSUED FOR THE PROJECT.

Chain Link Fence up to 6'

SCALE: N.T.S.

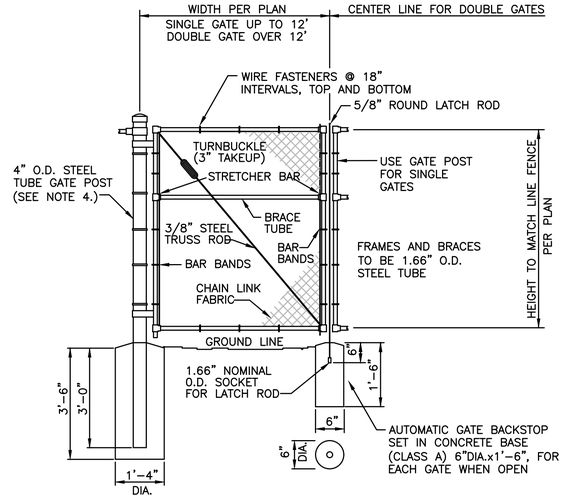


Note:

1. MATERIALS TO BE SUPPLIED AND INSTALLED IN CONFORMANCE WITH "CHAIN LINK MANUFACTURER'S INSTITUTE" PRODUCT MANUAL.
2. PROVIDE 6" OF CLEARANCE BETWEEN THE BOTTOM OF FABRIC AND FINISH GRADE AROUND BMP IF AN ORDER OF CONDITIONS WAS ISSUED FOR THE PROJECT.

6' to 12' Chain Link Fence

SCALE: N.T.S.

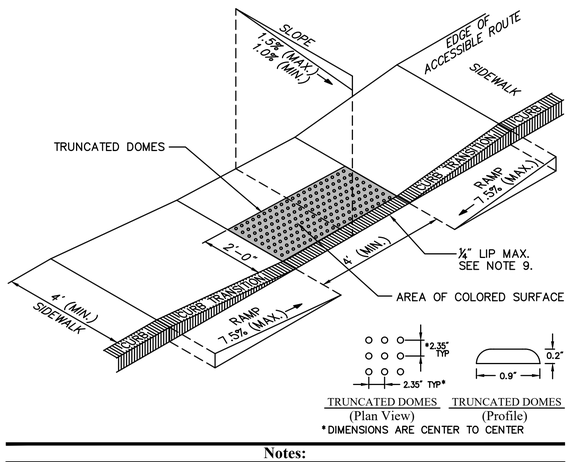


Notes:

1. CHAIN LINK FABRIC FOR GATES TO BE THE SAME AS REQUIRED FOR FENCE.
2. GATE POST BASE-PORTLAND CEMENT CONCRETE (3000 PSI).
3. FENCE FABRIC, POSTS, FRAMEWORKS, AND HARDWARE SHALL BE GALVANIZED STEEL PER SPECIFICATIONS.
4. GATE POSTS TO BE USED ON EACH SIDE OF SINGLE AND DOUBLE GATE OPENINGS.

Chain Link Fence Gate

SCALE: N.T.S.

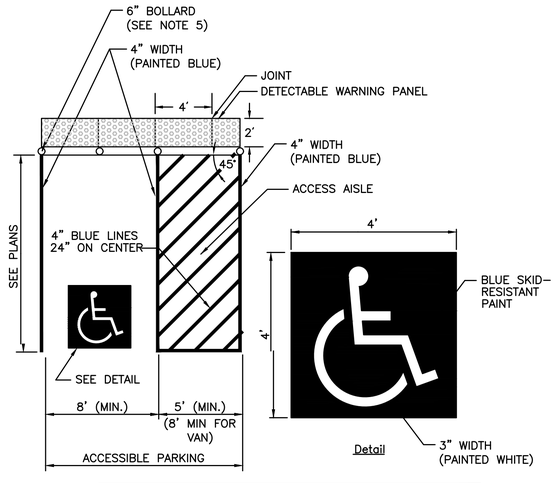


Notes:

1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5 (1% MIN.).
2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE AT CURB RAMPS SHALL BE 7.5%.
4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE.
6. RAMP, CURB, AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5' x 5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
9. ELIMINATE CURBING AT RAMP (OTHER THAN VERTICAL CURBING, WHICH SHALL BE SET FLUSH) WHERE IT ABUTS ROADWAY.
10. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.
11. DETECTABLE WARNINGS SHALL BE INSTALLED PERPENDICULAR TO ACCESSIBLE ROUTE.

Accessible Curb Ramp (ACR) Type 'A-D'

N.T.S.



Notes:

1. ALL DIMENSIONS TO EDGES OF 4" PAVEMENT STRIPING.
2. 8' STALL WIDTH REFERS TO 8' CLEAR BETWEEN INSIDE EDGES OF PAVEMENT MARKINGS.
3. ALL SLOPES THROUGHOUT THE ACCESSIBLE PARKING AND AISLE AREAS SHALL NOT EXCEED 1.5%.
4. ACCESS AISLE MEASURED BETWEEN OUTSIDE EDGES OF PAVEMENT MARKINGS WHERE ACCESSIBLE SPACES ABUT A FLUSH SIDEWALK CONDITION.
5. INSTALL 6" BOLLARDS CENTERED ON MONOLITHIC CURB AT PAINT LINES AND AT MIDPOINTS OF SPACES AND 8 FT HATCHED AREAS.

Accessible Parking Space

SCALE: N.T.S.

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
DETAILS 7

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

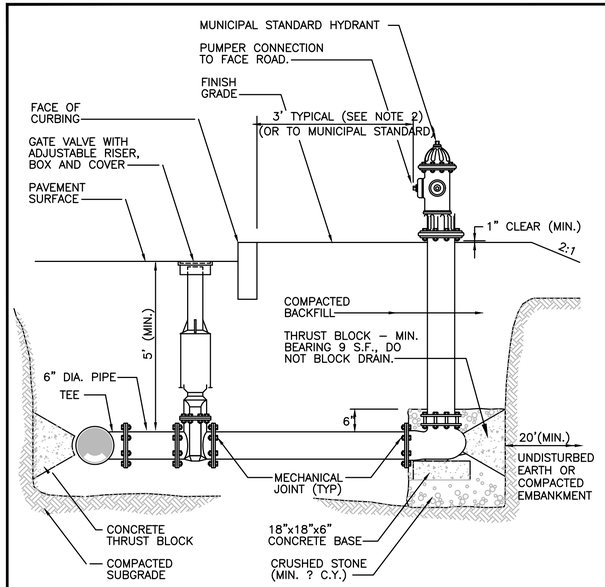
HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.

SHEET CV-313

ISSUE

Plotted on: June 6, 2018 12:40 PM
FILE NAME: \\VHBIPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SDI(DET1).DWG



Notes:

1. CONCRETE THRUST BLOCKS TO BE USED ONLY WHERE THEY CAN BEAR ON UNDISTURBED EARTH AS SHOWN. USE CLAMPS AND TIE RODS OR OTHER ACCEPTABLE METHOD OF JOINT RESTRAINT WHERE SOIL CONDITIONS PROHIBIT THE USE OF THRUST BLOCKS.
2. HYDRANT IN SIDEWALK AREAS TO BE LOCATED TO PROVIDE MINIMUM CLEAR SIDEWALK PASSAGE WIDTH OF 3 FEET AT HYDRANT.

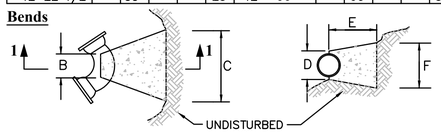
Hydrant Construction

SCALE: N.T.S.

Table Of Dimensions

BENDS	B	C	D	E	F	BENDS	B	C	D	E	F
6" 11 1/4°	8"	15"	12"	24"	12"	6" 45°	8"	30"	12"	24"	14"
6" 22 1/2°	"	19"	"	"	13"	6" 90°	"	30"	"	"	27"
8" 11 1/4°	"	20"	"	"	12"	8" 45°	"	30"	"	"	24"
8" 22 1/2°	"	22"	"	"	17"	8" 90°	"	38"	"	"	36"
12" 11 1/4°	"	30"	"	"	15"	12" 45°	"	40"	"	"	40"
12" 22 1/2°	"	35"	"	"	25"	12" 90°	"	60"	"	"	52"

Bends

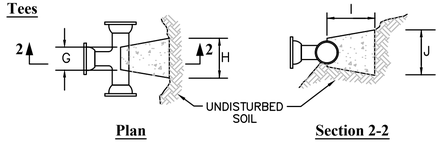


Plan Section 1-1

Table Of Dimensions

TEES	G	H	I	J	TEES	G	H	I	J
6"x 6"x 6"	12"	24"	24"	18"	12"x 12"x 6"	12"	24"	24"	18"
8"x 8"x 6"	"	"	"	"	12"x 12"x 8"	"	"	"	24"
8"x 8"x 8"	"	"	"	24"	12"x 12"x 12"	"	36"	"	36"

Tees



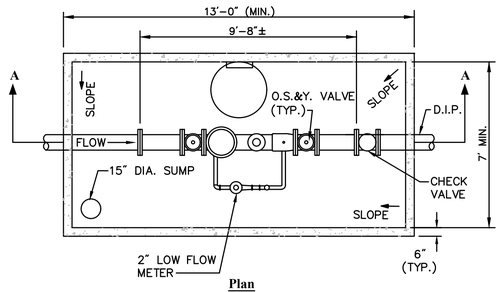
Plan Section 2-2

Notes:

1. PROVIDE BLOCKS FOR TAPPING SLEEVES, DEAD ENDS, GATE VALVES, AND VERTICAL BENDS (SAME SIZE AS REQUIRED FOR TEES). PROVIDE ANCHOR RODS AT VERTICAL BENDS AND GATE VALVES.
2. CONCRETE SHALL NOT BE PLACED AGAINST PIPE BEYOND FITTING.
3. CONCRETE SHALL BE 3000 PSI–TYPE I.

Concrete Thrust Block

SCALE N.T.S.



Plan

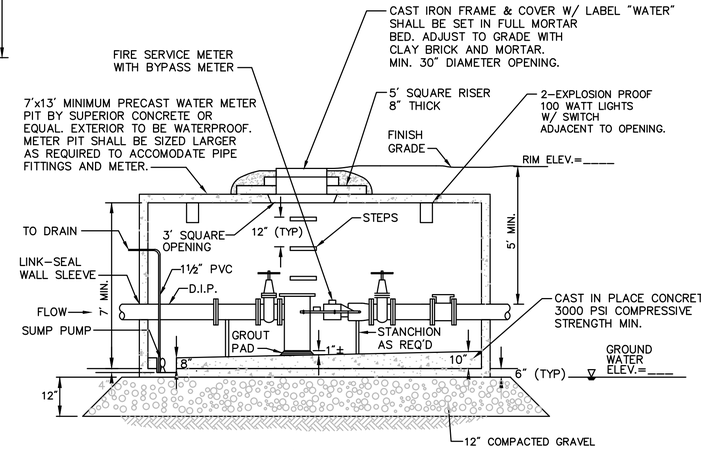
Notes:

1. CONC. MIN. STRENGTH – 5,000 PSI @ 28 DAYS.
2. STEEL REBAR – ASTM–A–79, GRADE 60 1" MIN.
3. DESIGN LOADING – AASHTO HS20–44.
4. CONSTRUCTION JOINT SEALED WITH 1" DIA. BUTYL RUBBER OR EQUIVALENT.
5. SEE UTILITY PLAN FOR METER AND WATER MAIN SIZES.
6. COPOLYMER STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
7. PROVIDE BARNES SUMP PUMP MODEL BP25VF WITH BACKCHECK VALVE OR APPROVED EQUIVALENT.
8. SEE SITE ELECTRICAL PLAN FOR ELECTRICAL CONNECTIONS.

ALL FITTINGS & JOINTS SHALL BE FLANGED, 200 PSI RATED

CONTRACTOR SHALL:

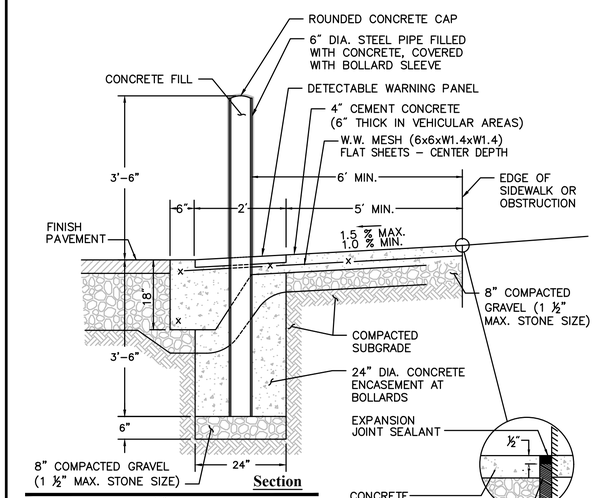
1. VERIFY UTILITY REQUIREMENTS
2. CHECK OS&Y HEIGHT
3. CHECK VALVE DIMENSIONING
4. ELECTRONIC/REMOTE READERS
5. METER TO REGISTER IN GALLONS OR CUBIC FEET
6. CHECK METER PIT DIMENSIONING TO ACCEPT ABOVE ITEMS



Section A-A

Water Meter Pit

SCALE N.T.S.



Section

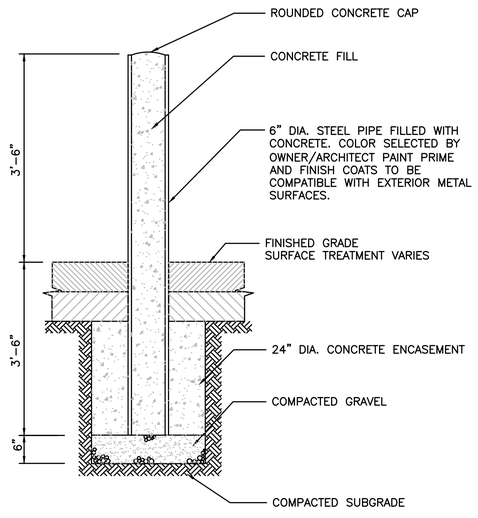
Notes:

1. CONCRETE FOR SIDEWALKS TO BE 4000 PSI AND FOR DRIVEWAYS 5000 PSI. BOTH MIXES TO BE TYPE II, 6% (1.5±) AIR ENTRAINED.
2. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE– FORMED EXPANSION JOINT FILLER & SEALER.
3. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
4. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.

Expansion Joint Detail

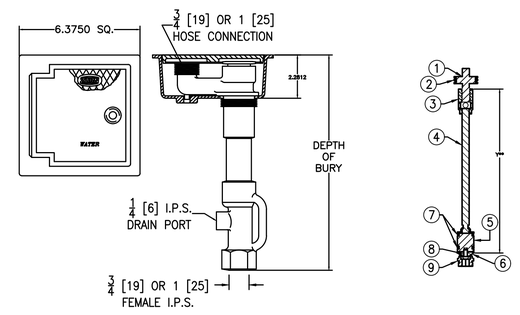
Bollard at Monolithic Concrete Curb (MCC) & Sidewalk

SCALE N.T.S.



6" Bollard

SCALE N.T.S.



Yard Hydrant

SCALE: N.T.S.

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
DETAILS 8

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

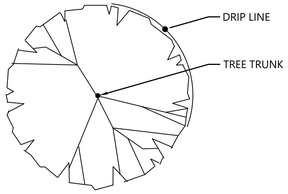
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VERT: NONE
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

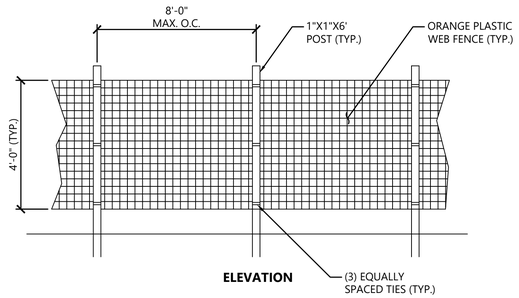
PLAN NO.
SHEET CV-314
ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_SD(DET1).DWG

Plotted on: June 4, 2018 2:06 PM



PLAN



ELEVATION

NOTES

1. INSTALL TREE PROTECTION FENCE AT THE DRIP LINE OF EXISTING TREES TO REMAIN.

Tree Protection Fence

SCALE N.T.S.

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
DETAILS 9

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: NONE	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

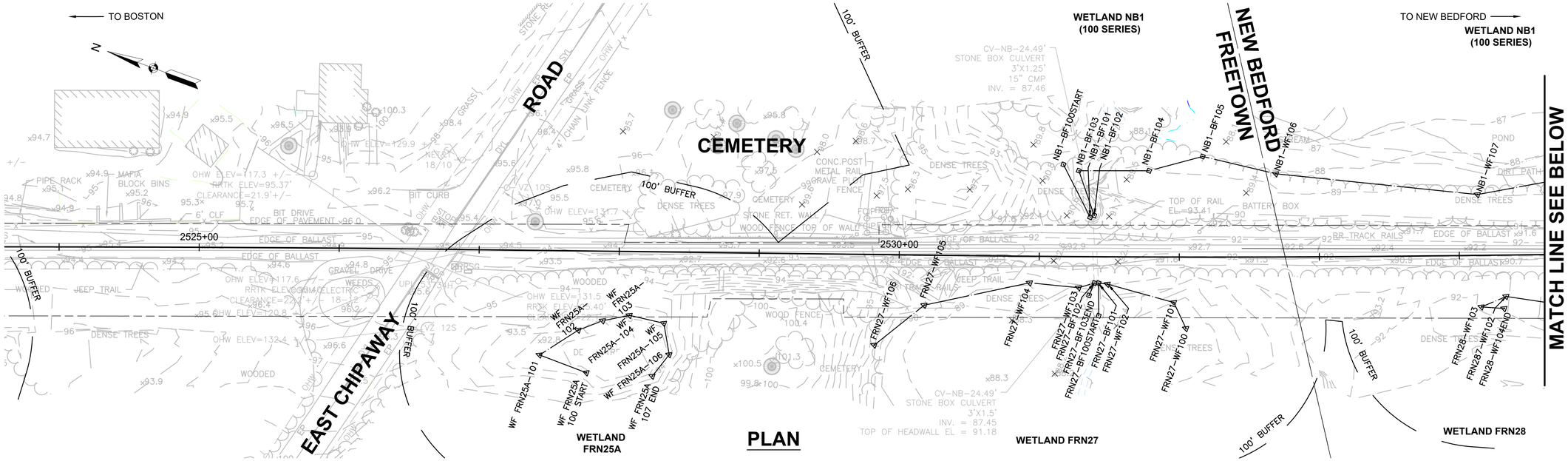
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SHEET CV-315

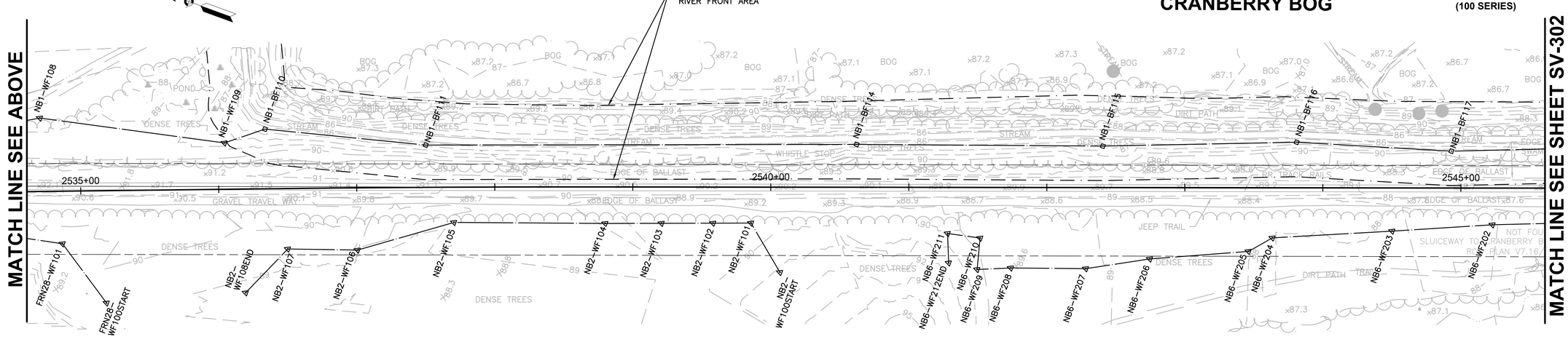
ISSUE

Plotted on June 4, 2018 2:07 PM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SD(DET1).DWG



PLAN



PLAN

LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2523+60 TO STA. 2545+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

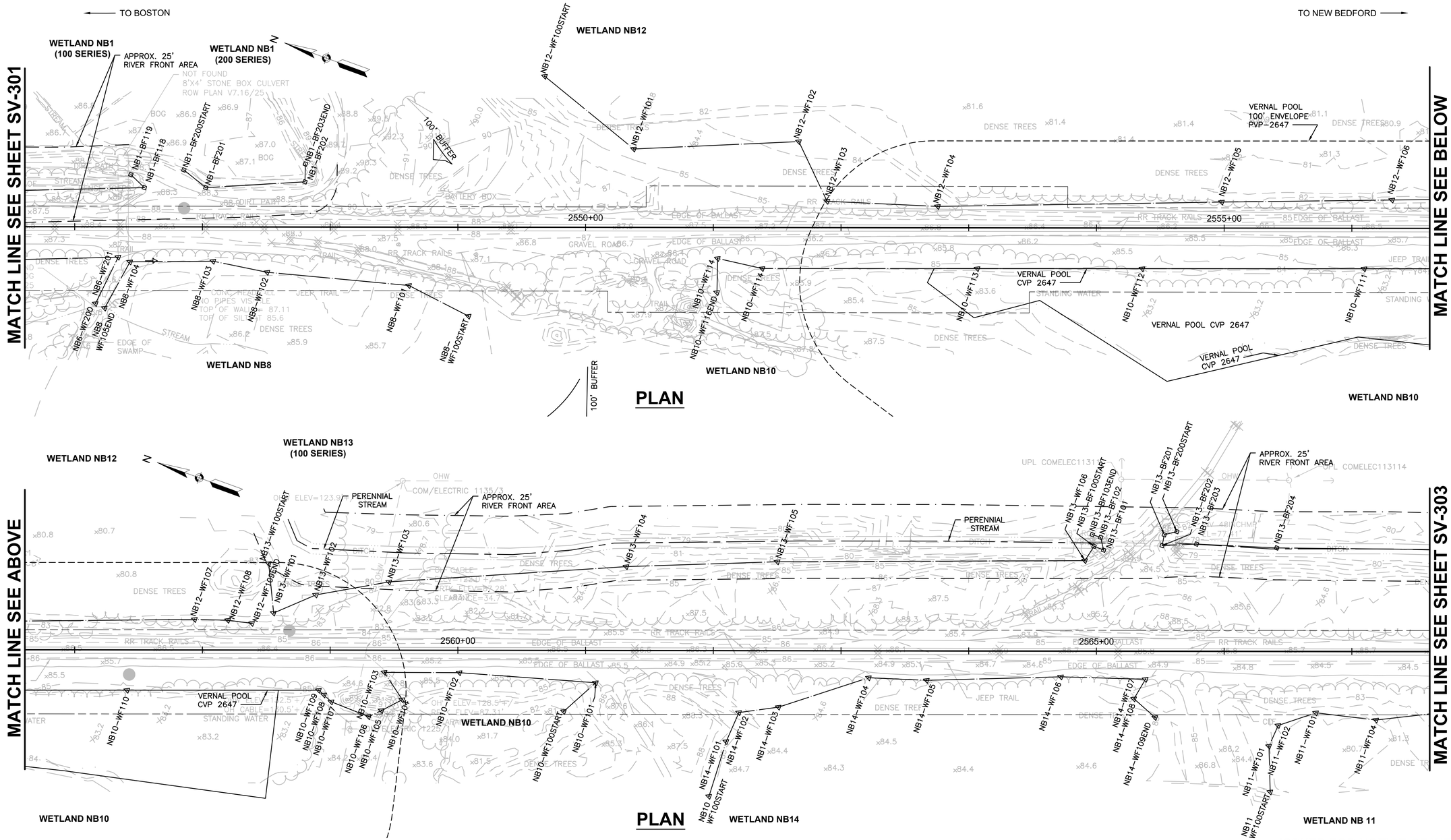
vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: AS SHOWN	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET SV-301	

Plotted on: June 6, 2018 9:58 AM
FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2545+60 TO STA. 2567+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET SV-302
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG

Plotted on: June 6, 2018 10:00 AM

TO BOSTON

TO NEW BEDFORD

WETLAND NB13 (200 SERIES)

WETLAND NB13 (200 SERIES)

MATCH LINE SEE SHEET SV-302

MATCH LINE SEE BELOW

APPROX. 25' RIVER FRONT AREA

PERENNIAL STREAM

PERENNIAL STREAM

NB13-BF205 NB13-BF206 NB13-BF207 NB13-BF208 NB13-BF209 NB13-BF210 NB13-BF211 NB13-BF212 NB13-BF213 NB13-BF214 NB13-BF215 NB13-BF216 NB13-BF217 NB13-BF218 NB13-BF219

NB13-WF200START NB13-WF201 NB13-WF202 NB13-WF203 NB13-WF204 NB13-WF300START NB13-WF301 NB13-WF302

2570+00 2575+00

RR TRACK RAILS EDGE OF BALLAST DENSE TREES DITCH JEEP TRAIL

NB11-WF105 NB11-WF106 END NB14-WF101 NB14-WF102 NB14-WF103 NB14-WF104 NB14-WF105 NB14-WF106 NB14-WF107 NB14-WF108 NB14-WF109 NB14-WF110 NB14-WF111 NB14-WF112 NB14-WF113 NB14-WF114 NB14-WF115 NB14-WF116 NB14-WF117 NB14-WF118 NB14-WF119 NB14-WF120 NB14-WF121 NB14-WF122

NB14 WF100START

WETLAND NB 14

WETLAND NB 14

PLAN

WETLAND NB13 (200 SERIES)

WETLAND NB13 (200 SERIES)

MATCH LINE SEE ABOVE

MATCH LINE SEE SHEET SV-304

BARNET BLVD

SAMUEL

APPROX. 25' RIVER FRONT AREA

PERENNIAL STREAM

NB13-BF220 NB13-BF221 NB13-BF222 NB13-BF223 NB13-BF224 NB13-BF225 NB13-WF306END NB13-BF226 NB13-BF227 NB13-BF228 NB13-BF229 NB13-BF231 NB13-BF232 NB13-BF233 NB13-BF234 NB13-BF235END

NB13-WF303 NB13-WF304 NB13-WF305

2580+00 2585+00

RR TRACK RAILS EDGE OF BALLAST DENSE TREES DITCH JEEP TRAIL 100' BUFFER

NB14-WF123 NB14-WF124 NB14-WF125 NB14-WF126 NB14-WF127 NB14-WF128 NB14-WF129 NB14-WF130 (APPROX. LOCATION) NB14-WF131 END

100' BUFFER

DITCH WETLAND NB 14

WETLAND NB 14

PLAN

ISSUED FOR NOTICE OF INTENT

LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET

40 0 40 80

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE EXISTING CONDITIONS PLAN STA. 2567+60 TO STA. 2589+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

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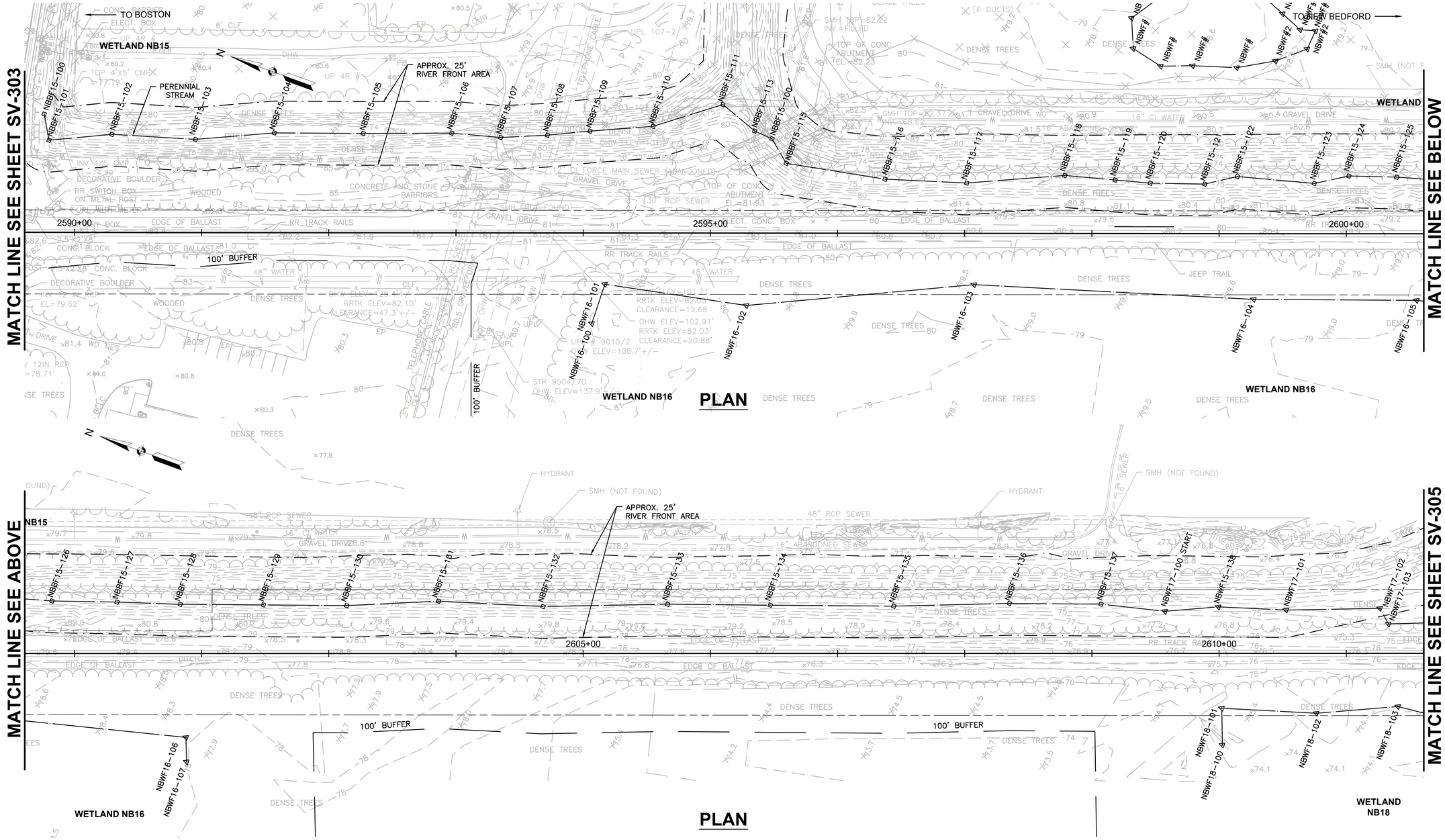
PROJECT MANAGER Date

PROJECT MANAGER Date

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VERT: AS SHOWN	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET SV-303	

Plotted on: June 6, 2018 10:01 AM

FILE NAME: I:\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVINOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2589+60 TO STA. 2611+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

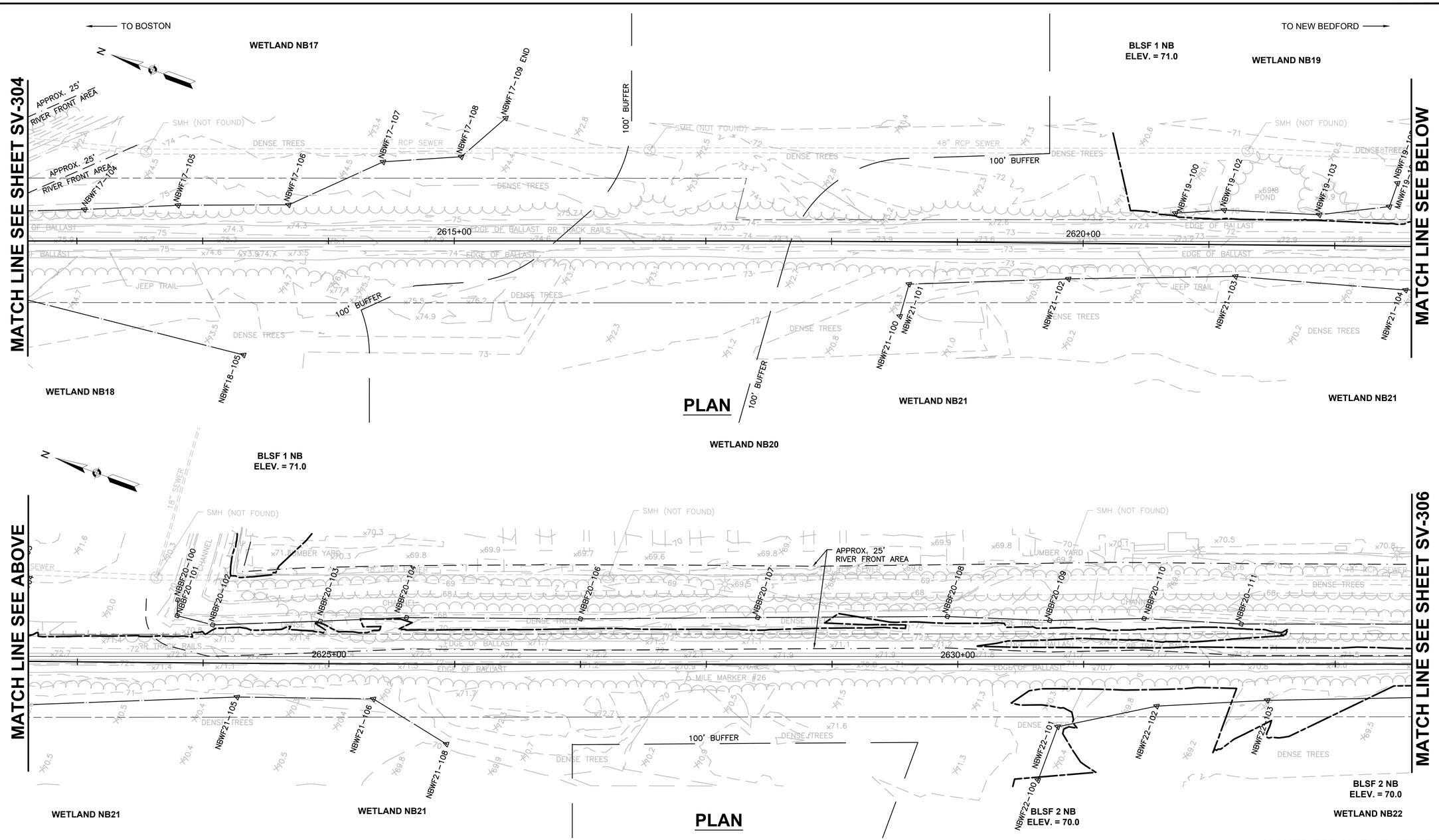
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET SV-304
ISSUE

FILE NAME: I:\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVMOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG

Plotted on: June 6, 2018 10:02 AM



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

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MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2611+60 TO STA. 2633+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date
PROJECT MANAGER Date

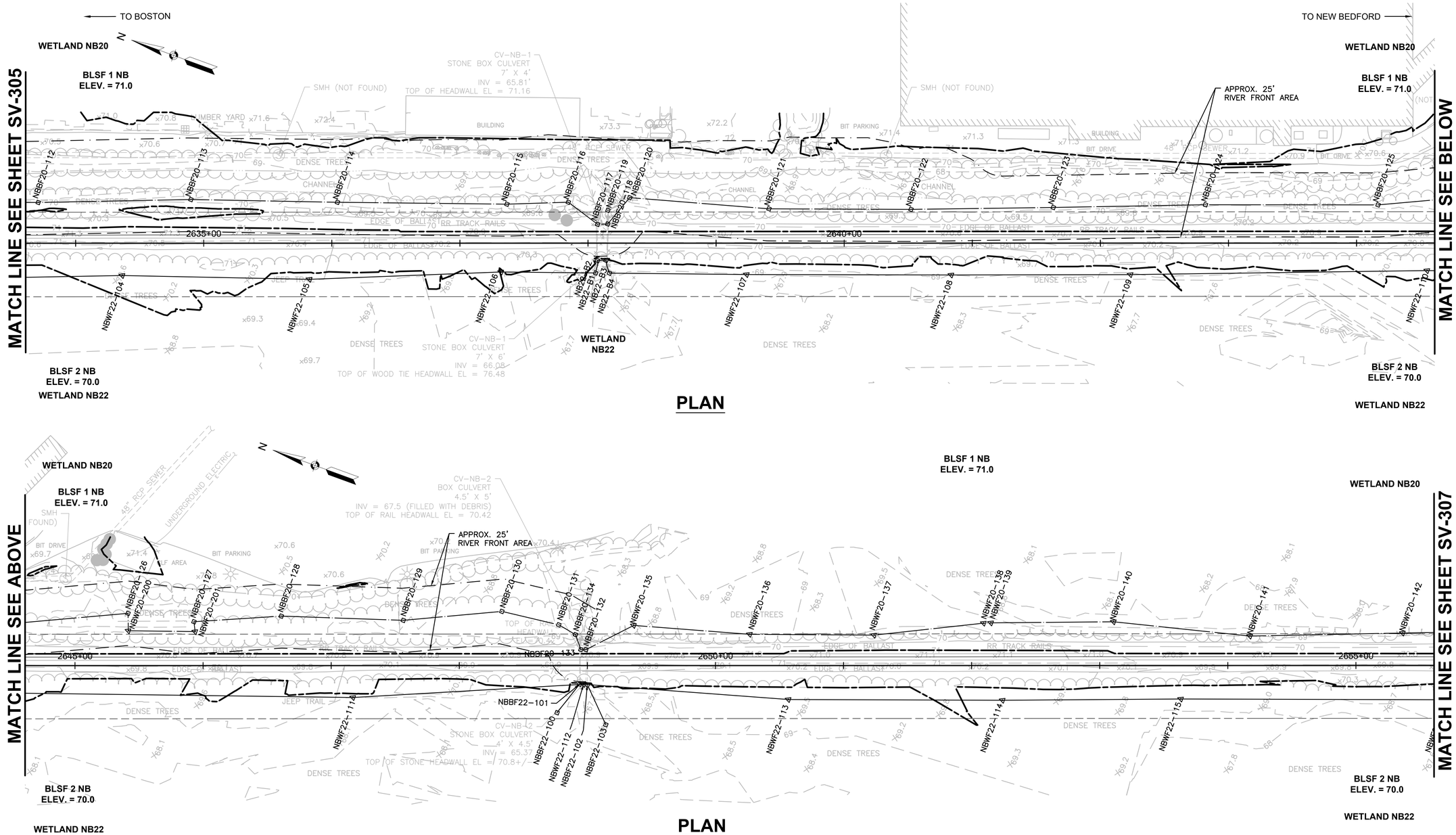
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DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.
SHEET SV-305
ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG

Plotted on: June 6, 2018 10:03 AM



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2633+60 TO STA. 2655+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

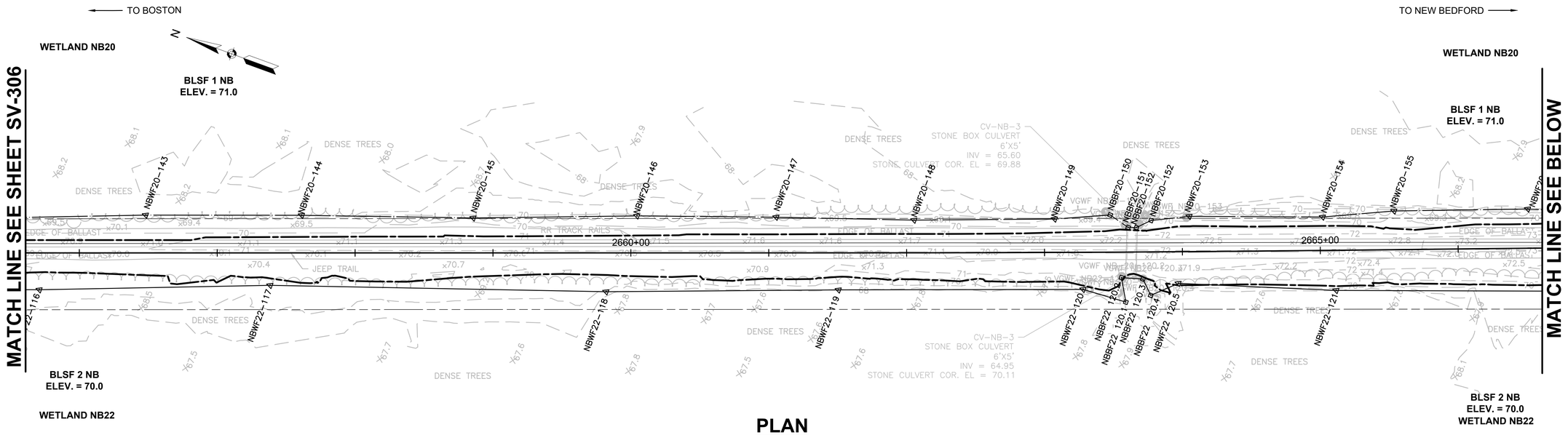
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

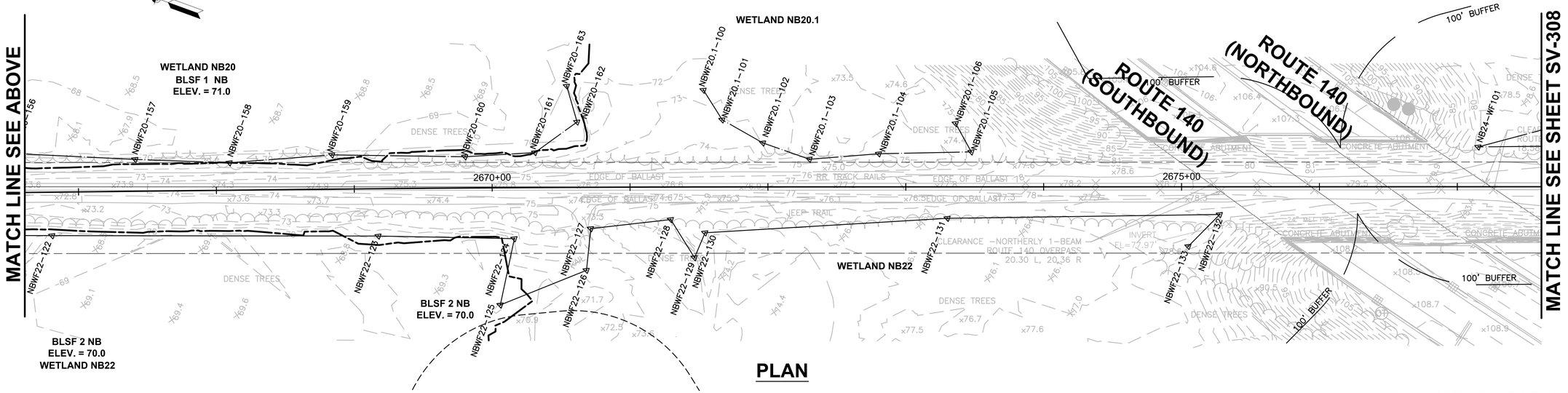
PLAN NO.
SHEET SV-306
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVINOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG

Plotted on: June 6, 2018 10:04 AM



PLAN



PLAN

LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2655+60 TO STA. 2677+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

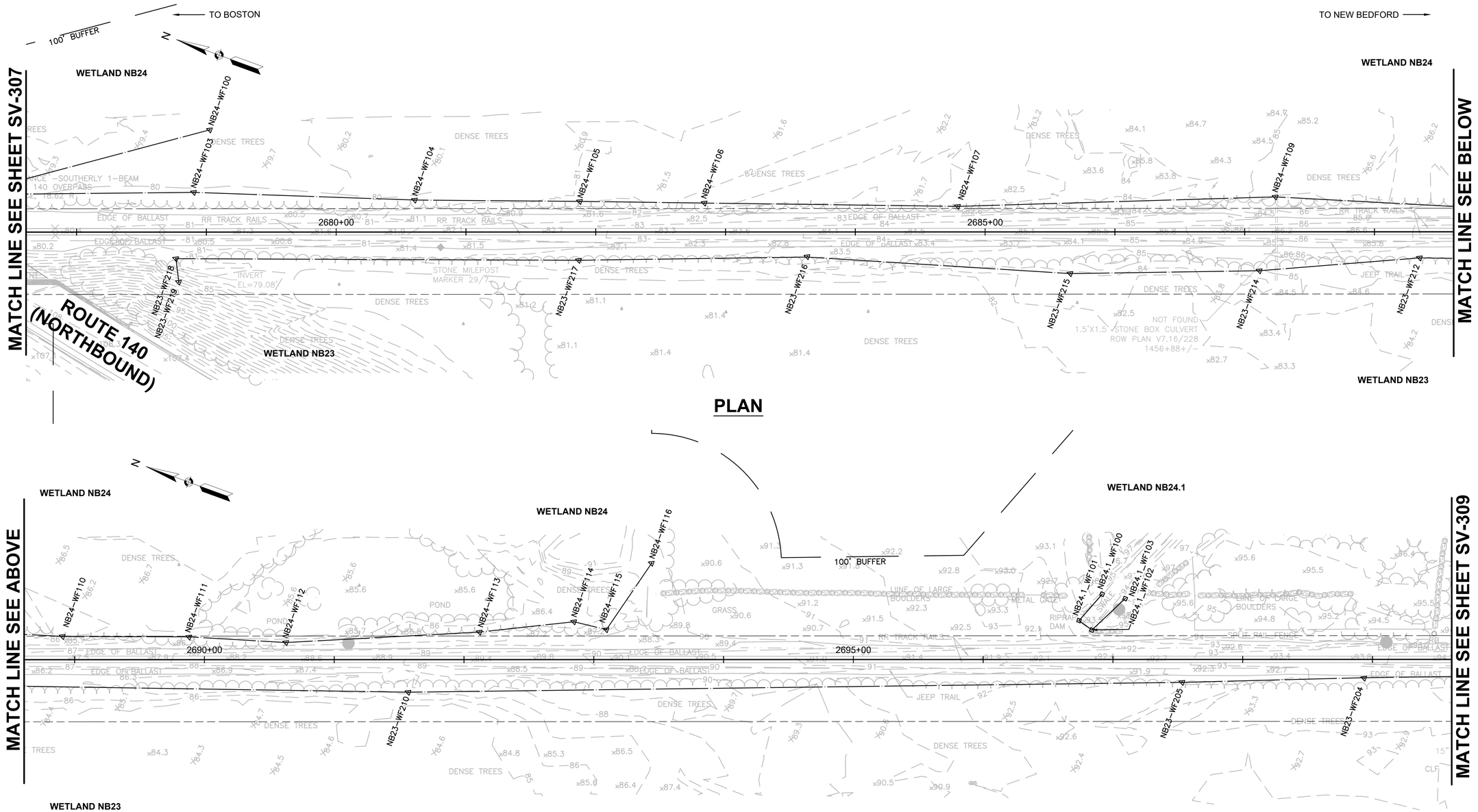
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET SV-307
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG

Plotted on: June 6, 2018 10:05 AM



PLAN

PLAN

LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2677+60 TO STA. 2699+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.
		####			

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

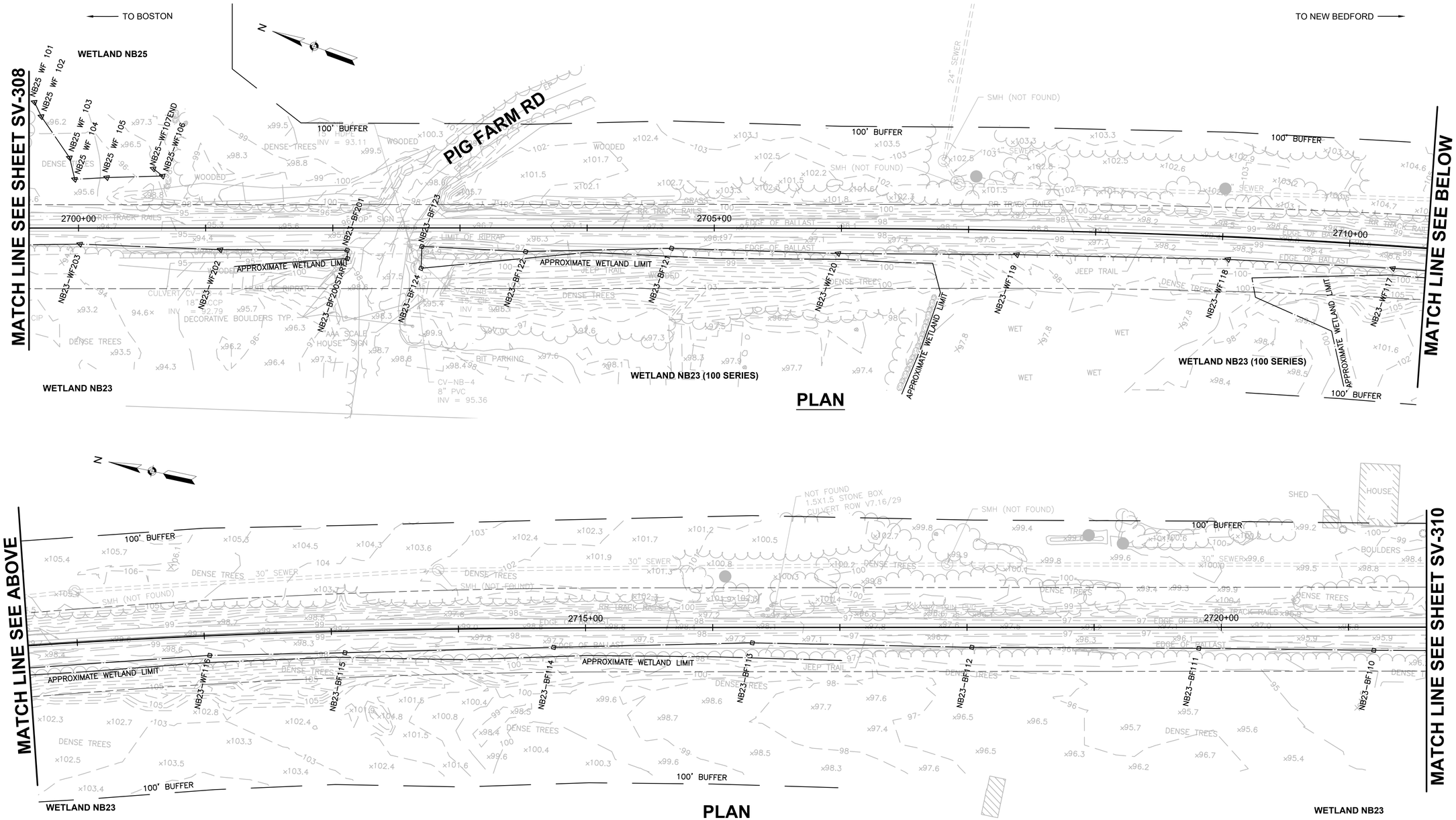
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	PLAN NO.
VERT: AS SHOWN	ADZ	RRD	KJC	
DATE: 06/01/2018				SHEET SV-308

ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG

Plotted on June 6, 2018 10:07 AM



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2699+60 TO STA. 2721+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date
PROJECT MANAGER Date

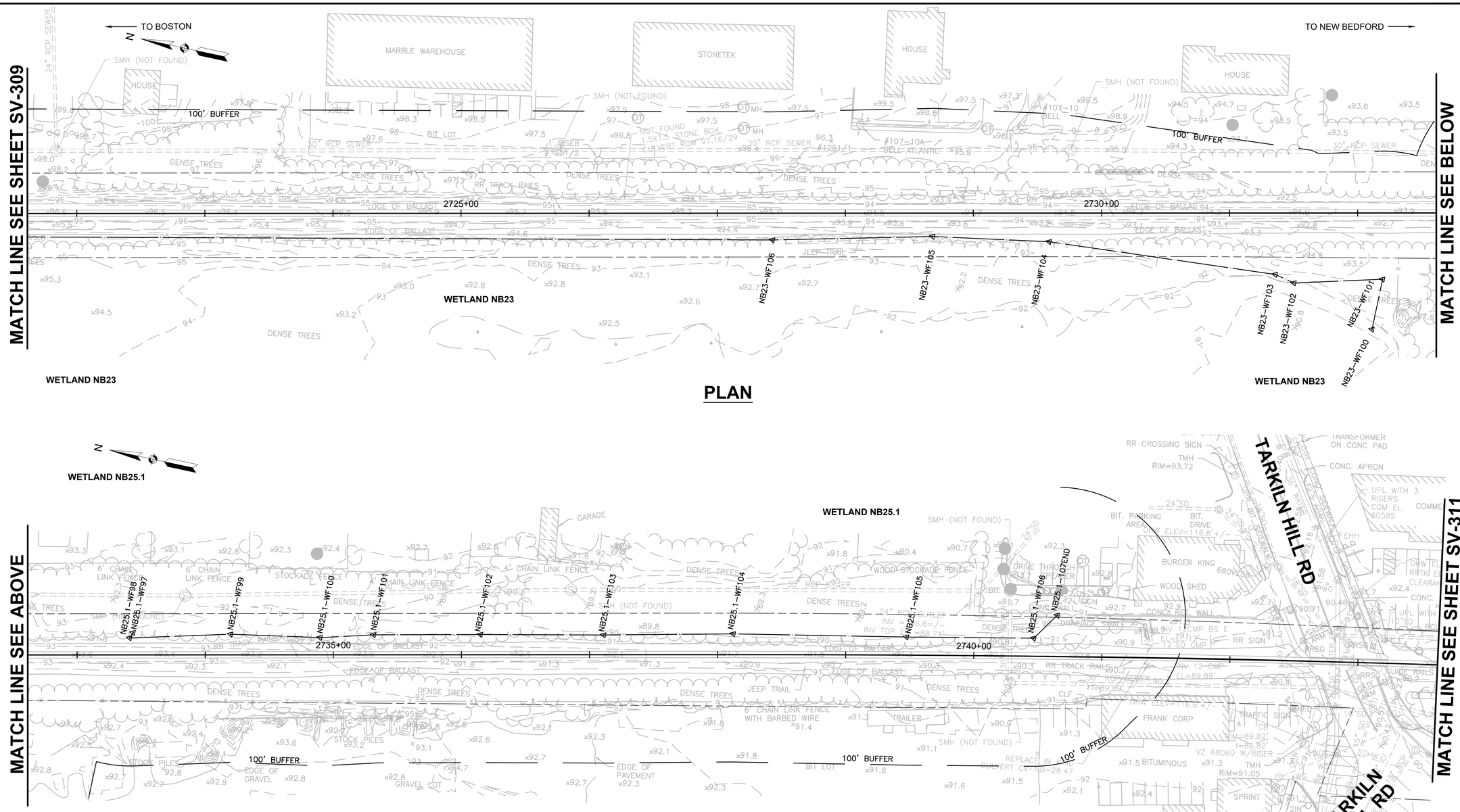
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DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.
SHEET SV-309
ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG

Plotted on: June 6, 2018 10:08 AM



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2721+60 TO STA. 2743+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

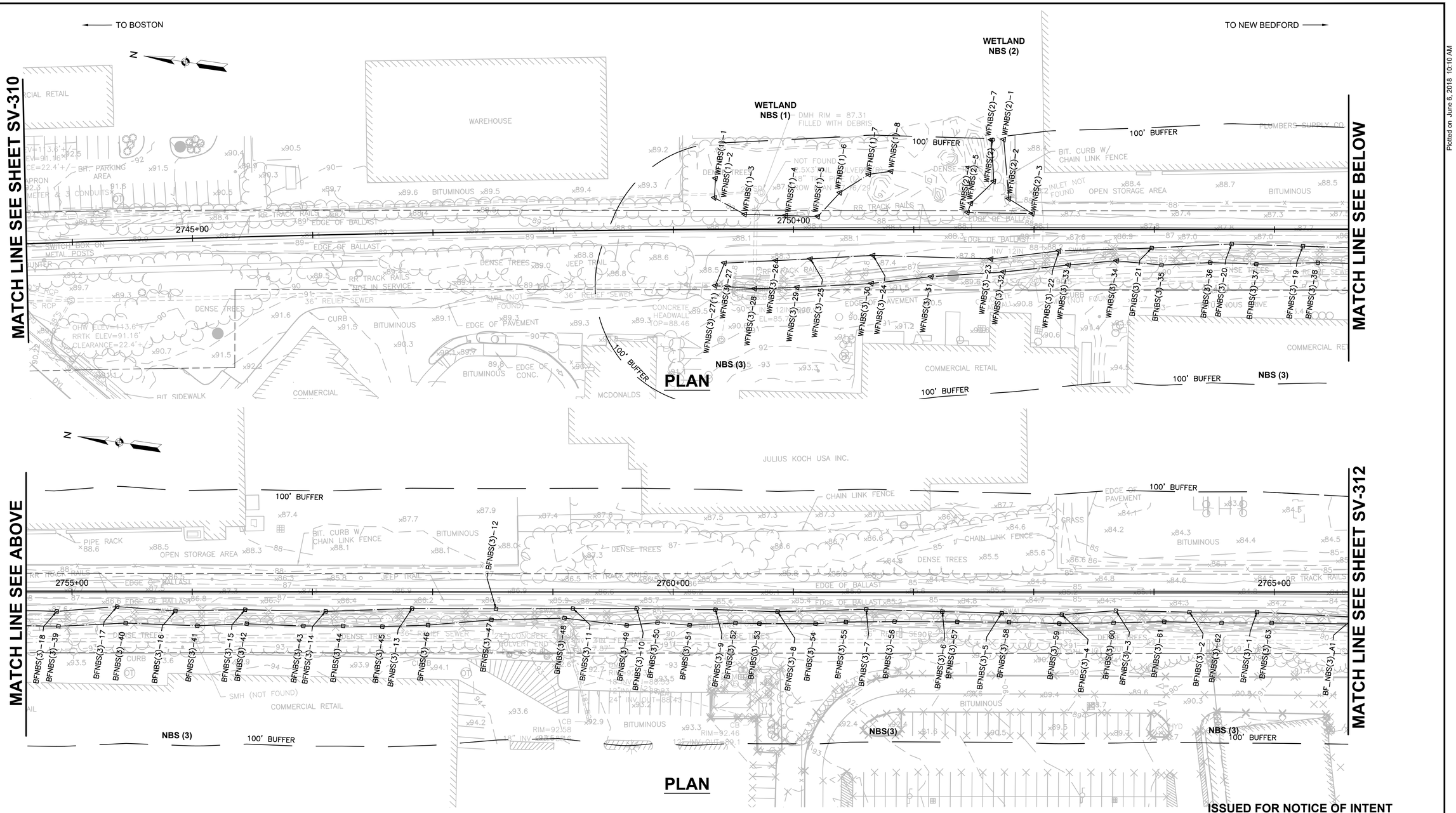
PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: AS SHOWN	ADZ	RRD	KJC
VERT: AS SHOWN			
DATE: 06/01/2018			

PLAN NO.
SHEET SV-310
ISSUE

Plotted on: June 6, 2018 10:09 AM
FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVMON\ NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2743+60 TO STA. 2765+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

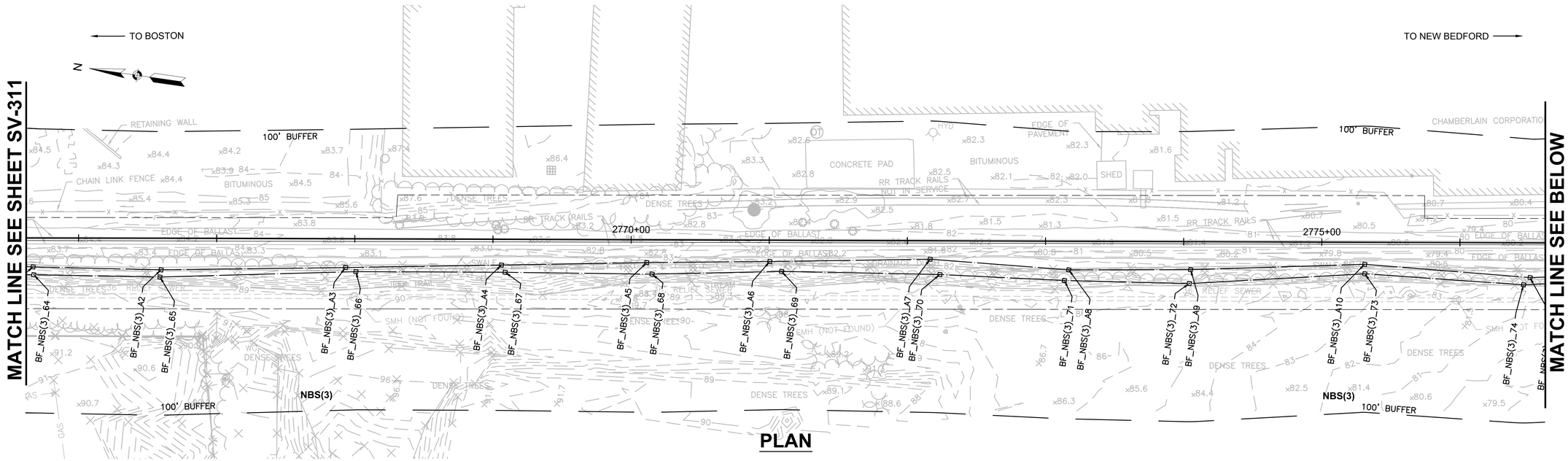
PROJECT MANAGER Date

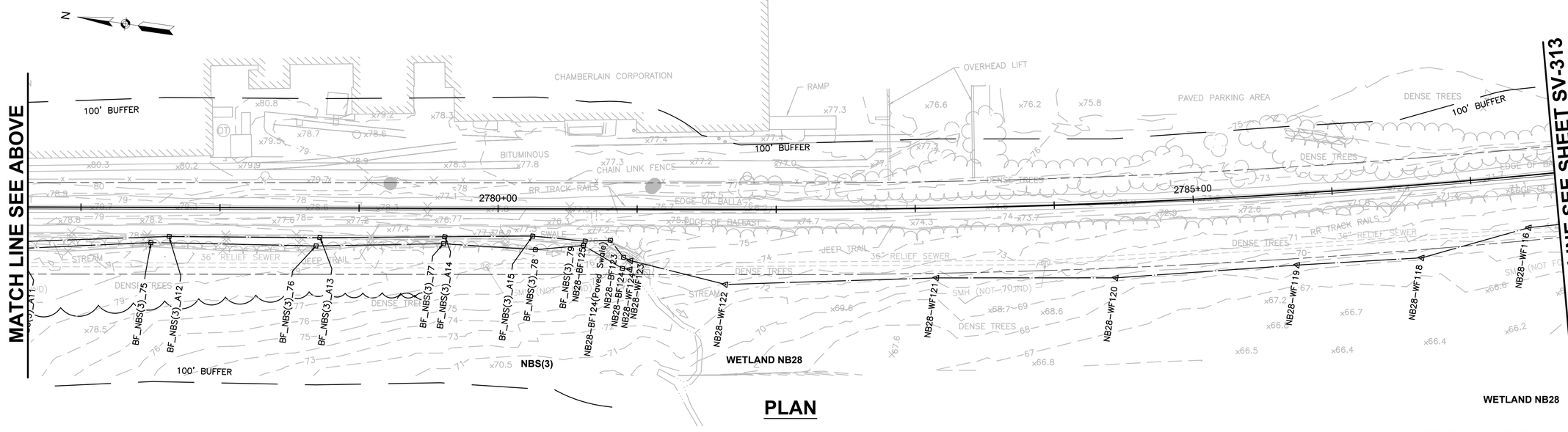
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET SV-311
ISSUE

Plotted on: June 6, 2018 10:10 AM
FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNO\ NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG





LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2765+60 TO STA. 2787+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

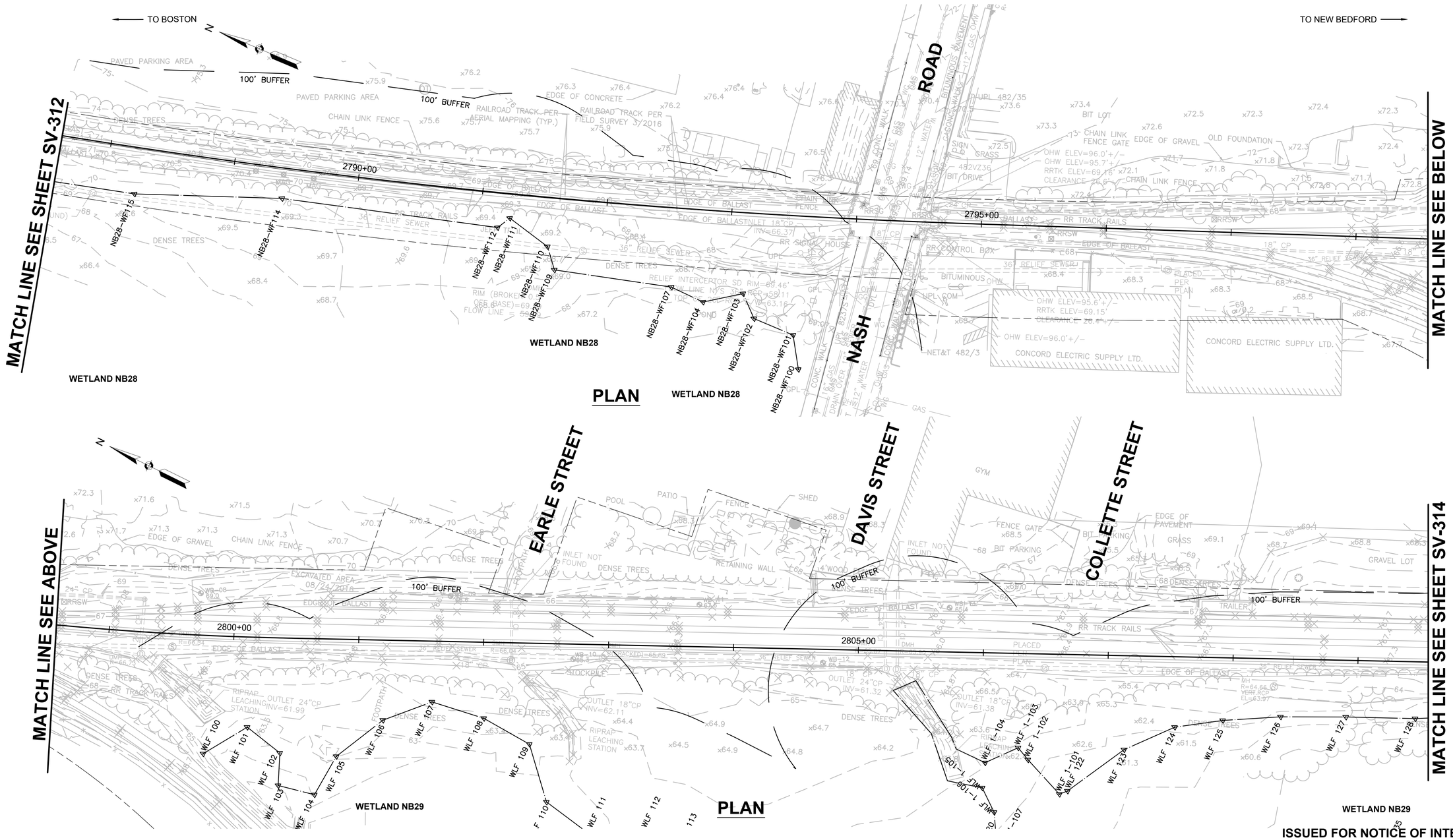
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: AS SHOWN	ADZ	RRD	KJC
VERT: AS SHOWN			
DATE: 06/01/2018			

PLAN NO.
SHEET SV-312
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG

Plotted on: June 6, 2018 10:11 AM



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2787+60 TO STA. 2809+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

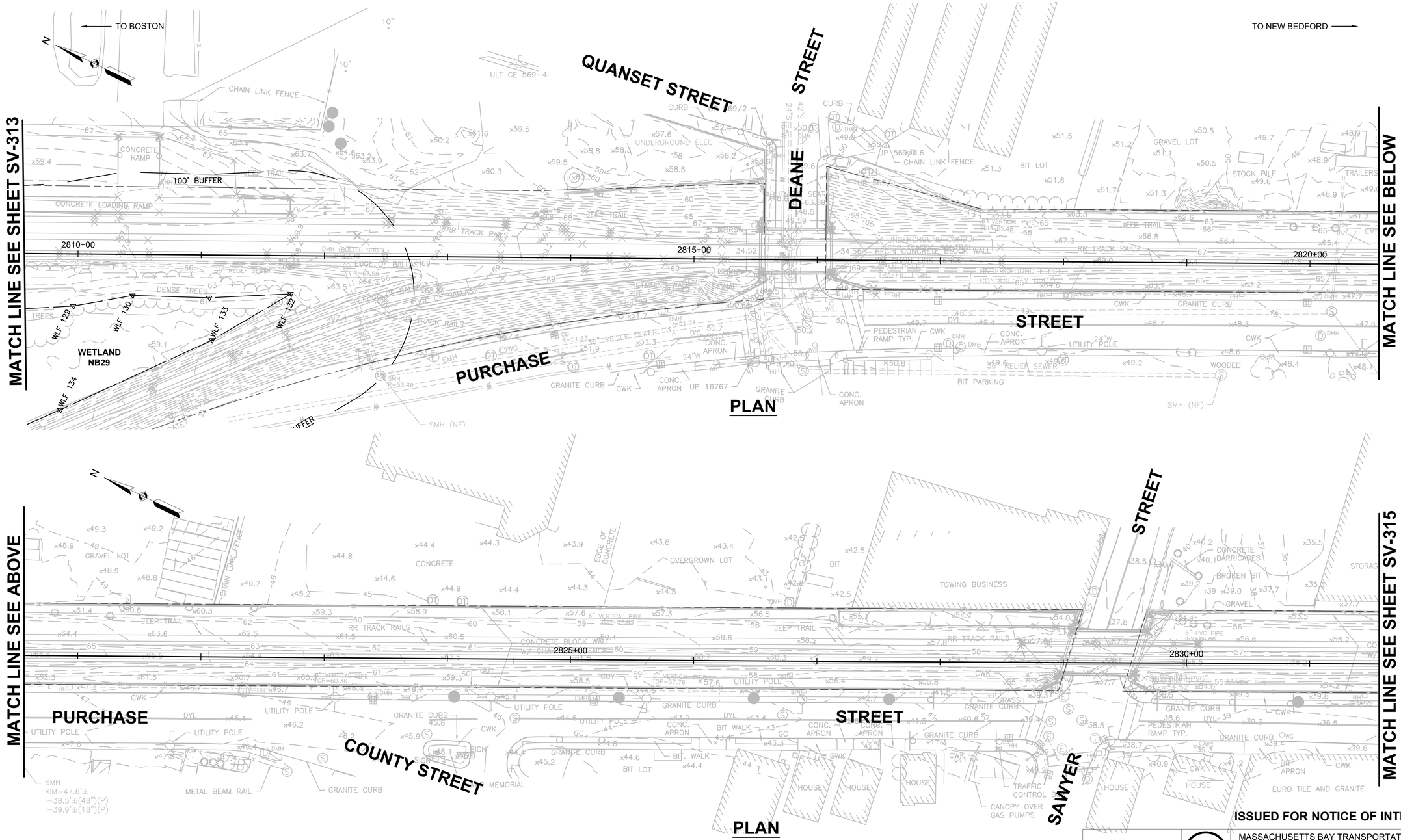
PROJECT MANAGER Date

PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET SV-313
ISSUE

Plotted on: June 6, 2018 10:12 AM
FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EW\NOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2809+60 TO STA. 2831+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

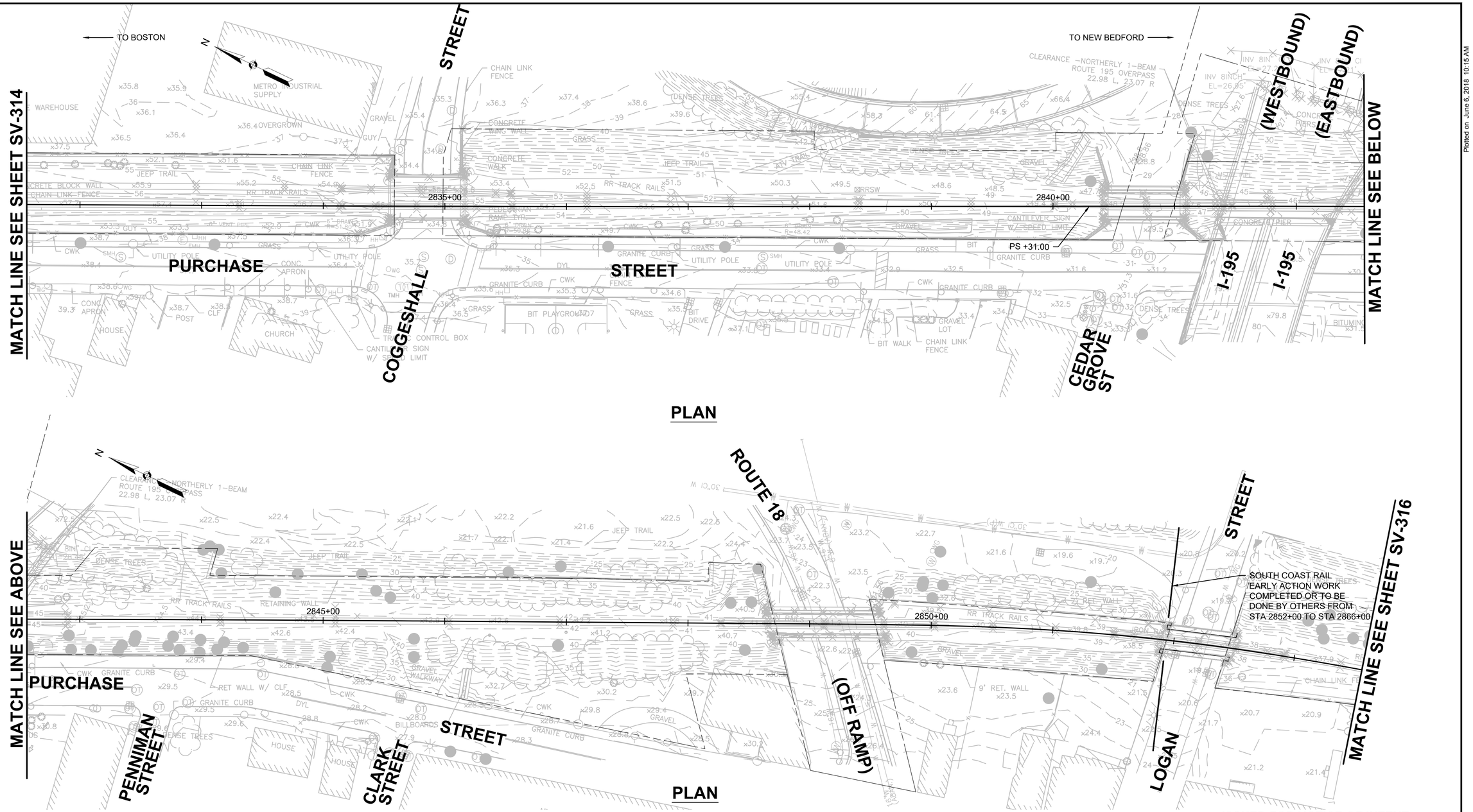
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET SV-314
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD).DWG

Plotted on: June 6, 2018 10:13 AM



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2831+60 TO STA. 2853+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

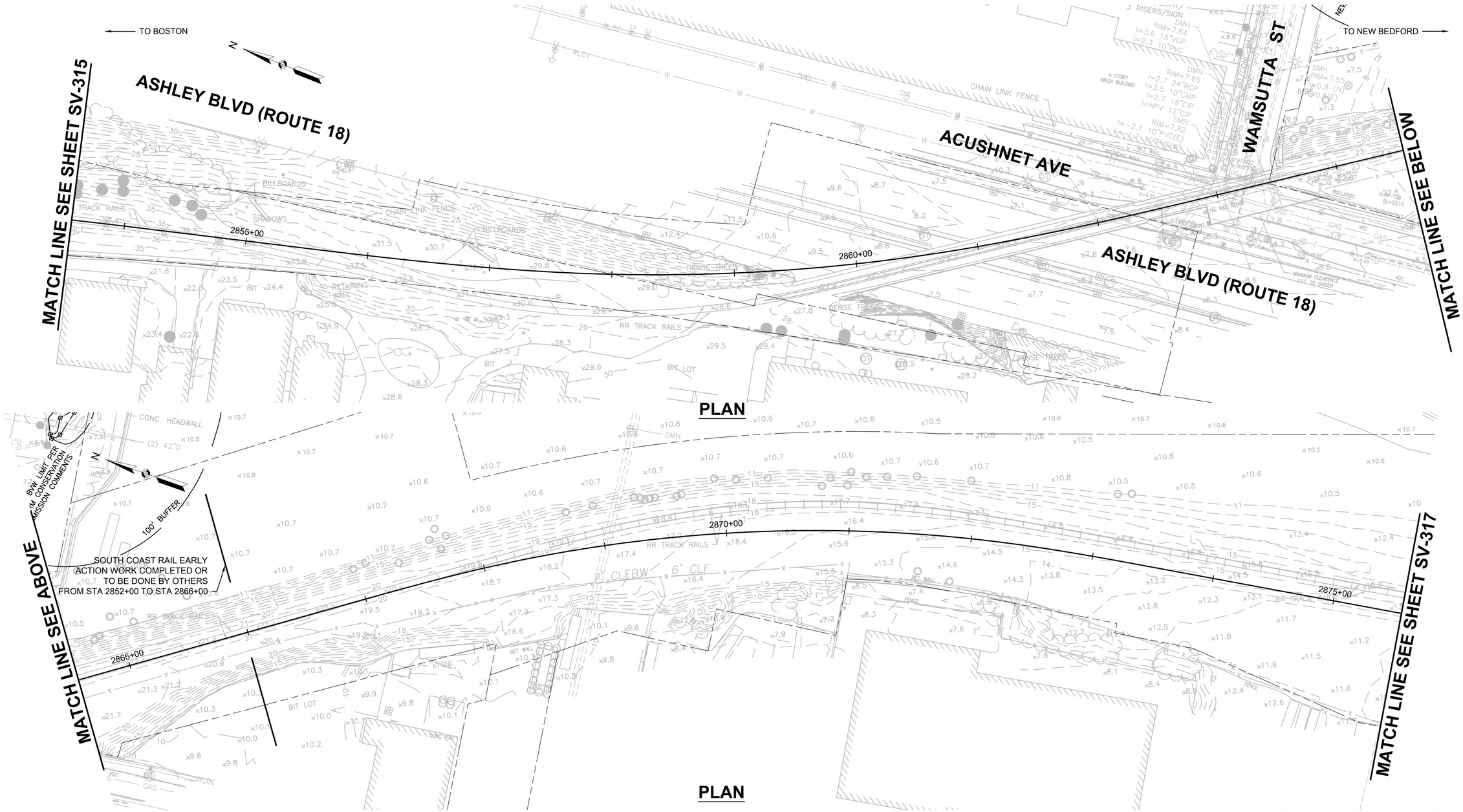
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET SV-315
ISSUE

Plotted on: June 6, 2018 10:15 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD_2).DWG



ISSUED FOR NOTICE OF INTENT

LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2853+60 TO STA. 2875+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

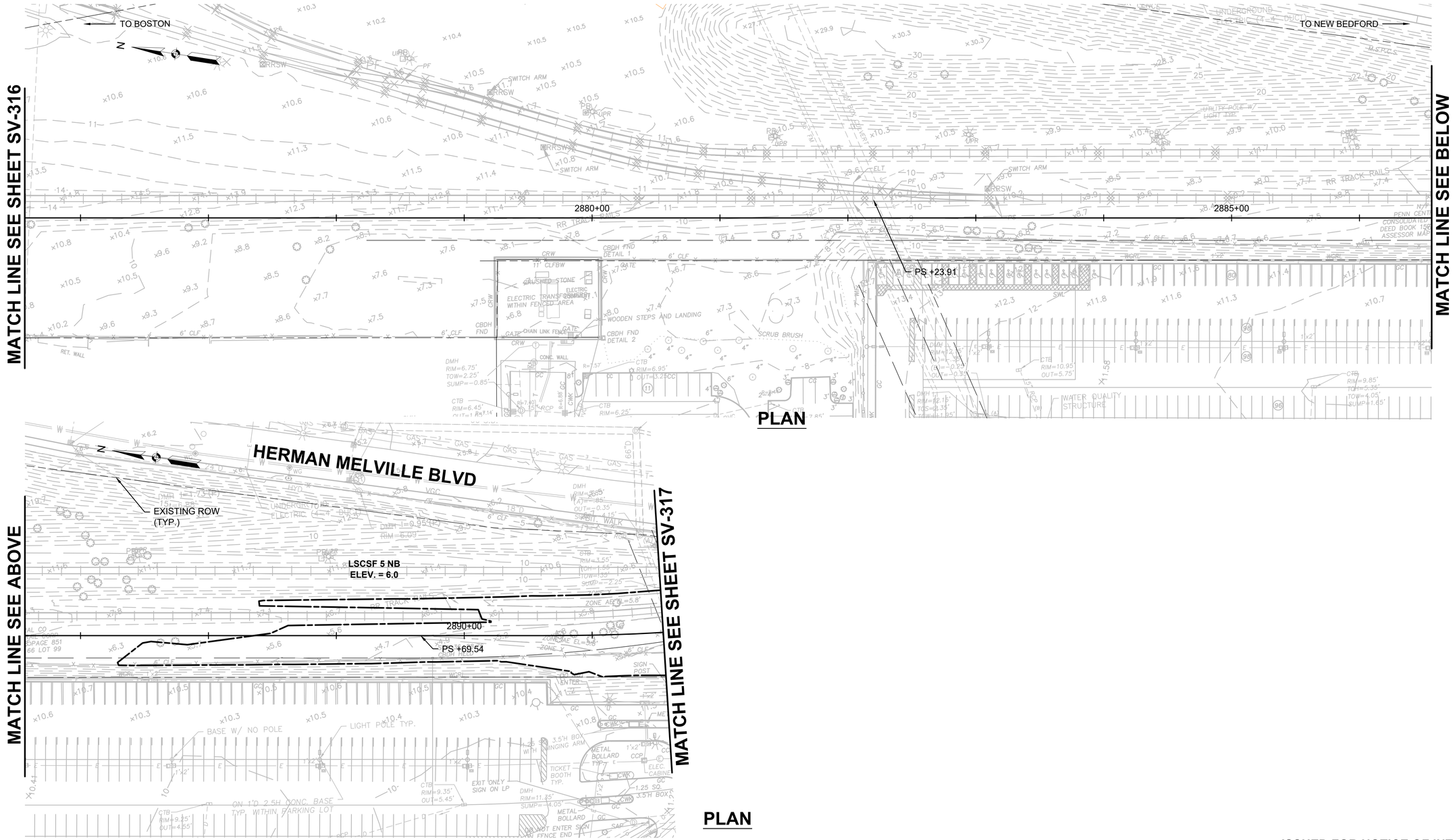
PROJECT MANAGER Date
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET SV-316
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD_2).DWG

Plotted on June 6, 2018 10:16 AM



LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2875+60 TO STA. 2891+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date

HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

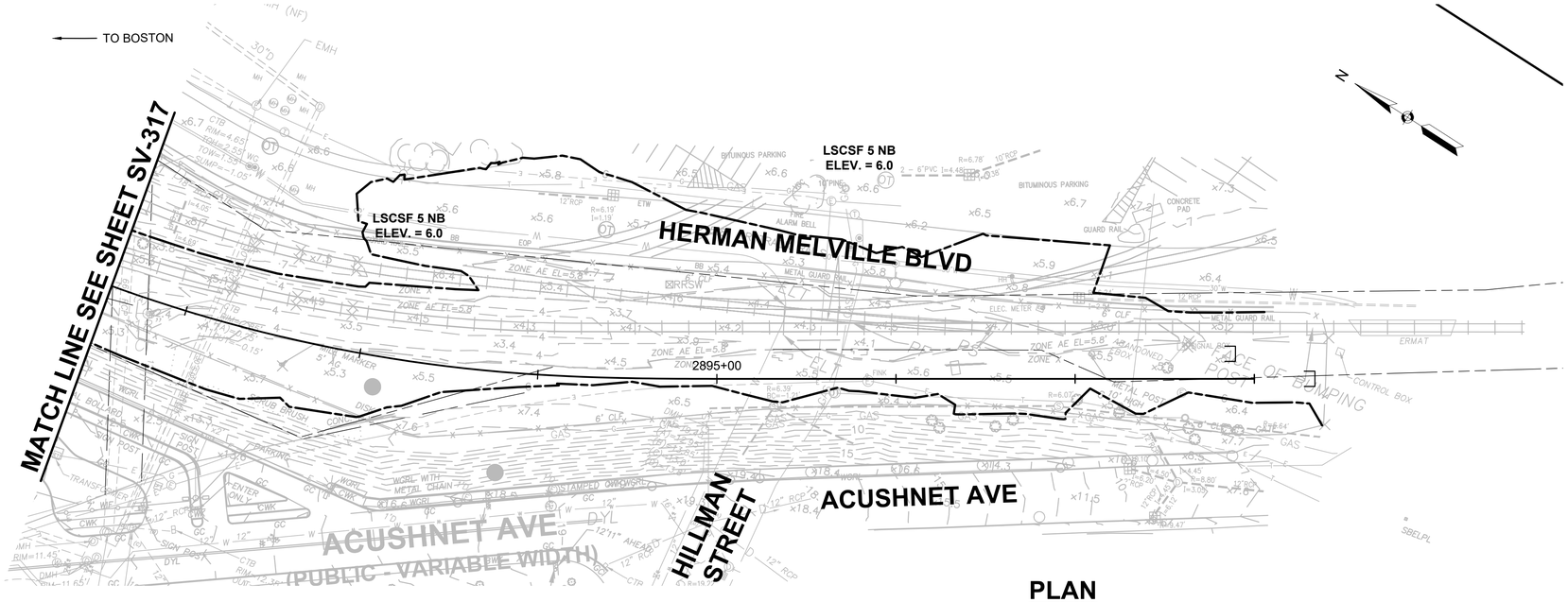
PLAN NO.

SHEET SV-317

ISSUE

Plotted on: June 6, 2018 10:17 AM

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD_2).DWG



PLAN

Plotted on: June 6, 2018 10:18 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_SV(NEW BEDFORD_2).DWG

LEGEND & SYMBOLS

- RIGHT OF WAY
- BORDERING VEGETATED WETLAND
- BANK
- CL STREAM
- BLSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER ZONE
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

HOR. SCALE IN FEET
40 0 40 80

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
EXISTING CONDITIONS PLAN
STA. 2891+60 TO STA. 2898+00

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

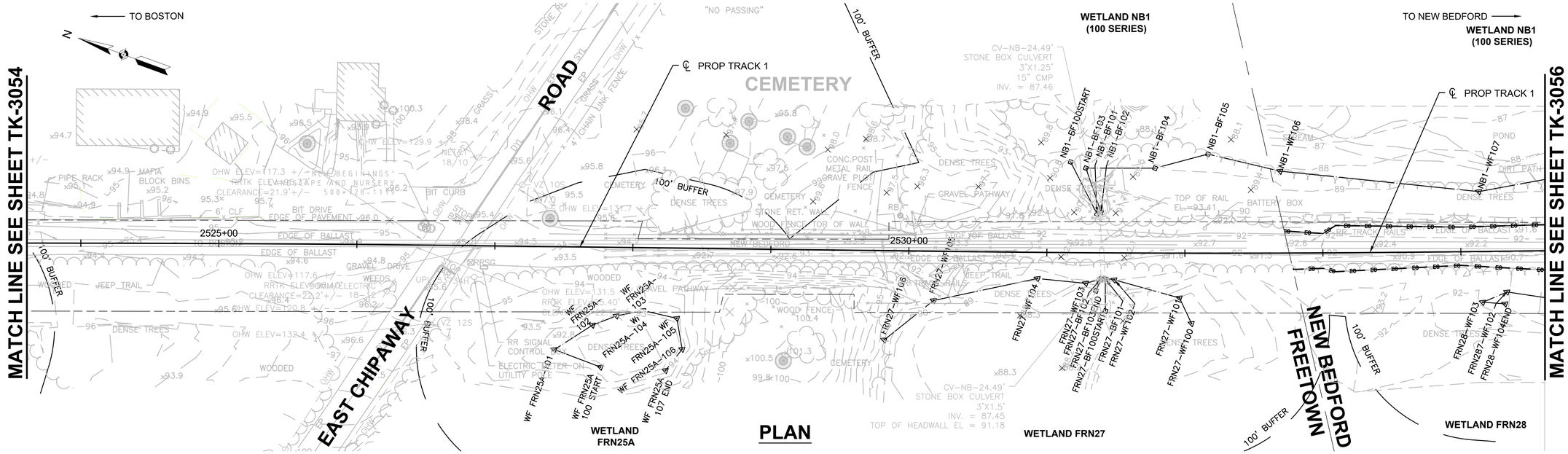
PROJECT MANAGER Date

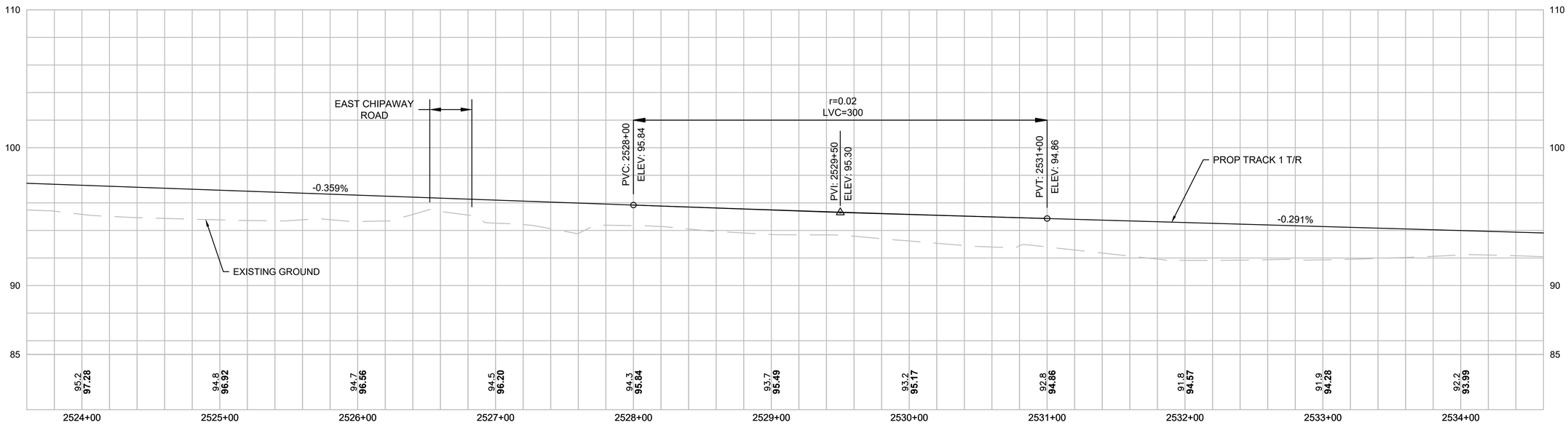
	DES. BY	DR. BY	CHK. BY
HORIZ: AS SHOWN	ADZ	RRD	KJC
VERT: AS SHOWN			
DATE: 06/01/2018			

PLAN NO.

SHEET SV-318

ISSUE





PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET*)	
NB1	
PERMANENT	0 SF
TEMPORARY	0 SF
FRN28	
PERMANENT	0 SF
TEMPORARY	0 SF

* IMPACT AREAS ON THIS SHEET ARE FOR NEW BEDFORD ONLY.

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2523+60 TO STA. 2534+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

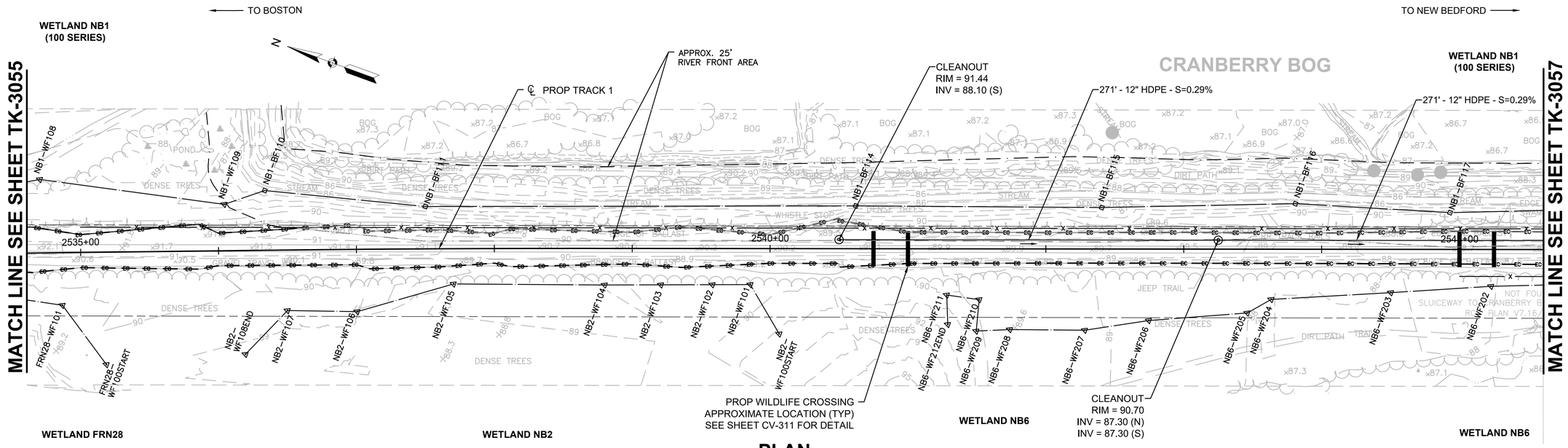
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: AS SHOWN	ADZ	RRD	KJC
VERT: AS SHOWN			
DATE: 06/01/2018			

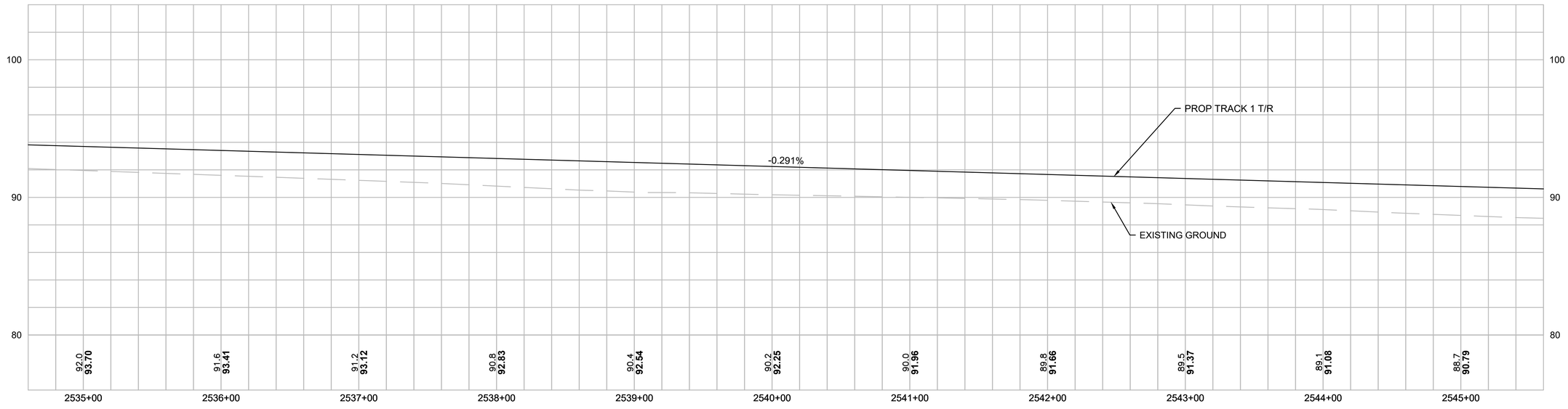
PLAN NO.
SHEET TK-3055
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG

Plotted on: June 4, 2018 12:28 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB1	
PERMANENT	0 SF
TEMPORARY	0 SF
FRN28	
PERMANENT	0 SF
TEMPORARY	0 SF
NB2	
PERMANENT	0 SF
TEMPORARY	0 SF
NB6	
PERMANENT	0 SF
TEMPORARY	0 SF

RIVERFRONT AREA IMPACT (THIS SHEET)	
25' RA	
PREVIOUSLY DISTURBED	6497 SF
UNDISTURBED	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2534+60 TO STA. 2545+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

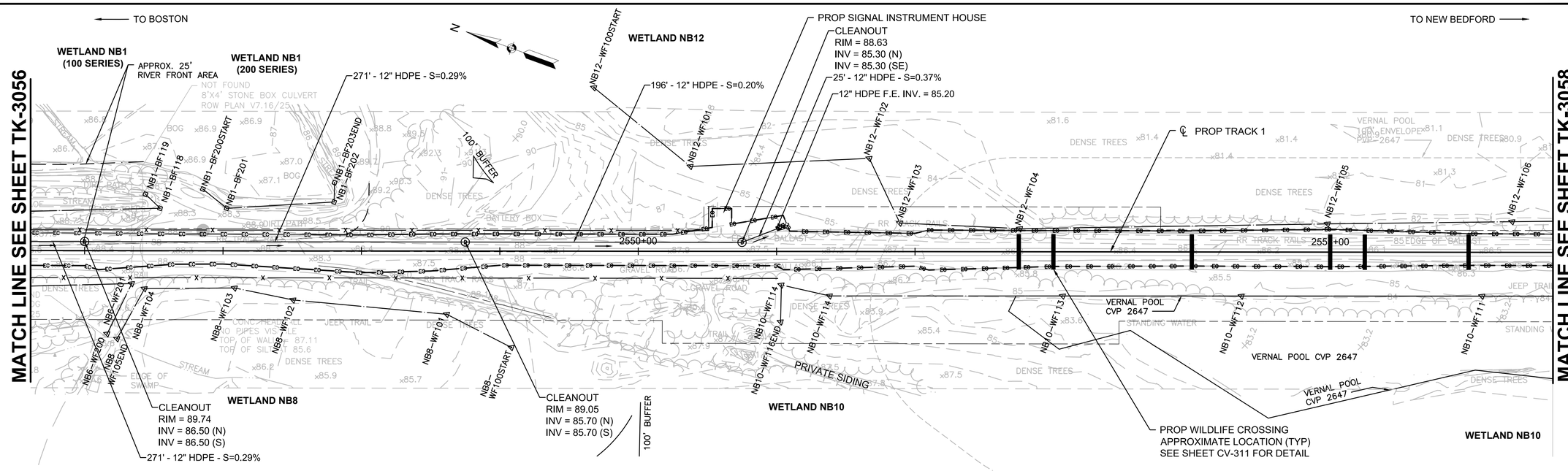
vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

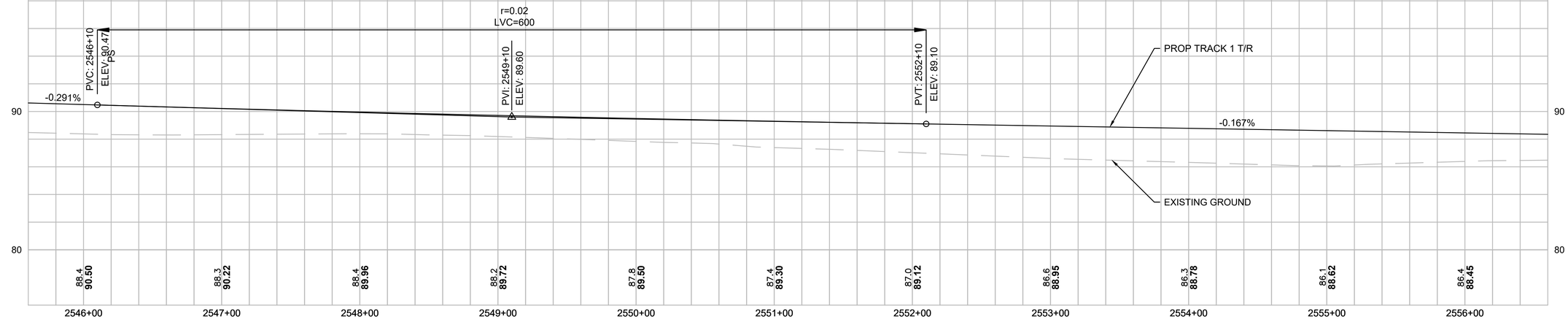
PROJECT MANAGER Date
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	ISSUE
VERT: AS SHOWN	ADZ	RRD	KJC	PLAN NO.
DATE: 06/01/2018				SHEET TK-3056

Plotted on: June 4, 2018 12:30 PM
FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_EVNEWBEDFORD_NOI1).DWG



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB1	
PERMANENT	0 SF
TEMPORARY	0 SF
NB12	
PERMANENT	0 SF
TEMPORARY	0 SF
NB6	
PERMANENT	0 SF
TEMPORARY	0 SF
NB8	
PERMANENT	0 SF
TEMPORARY	0 SF
NB10	
PERMANENT	0 SF
TEMPORARY	0 SF

RIVERFRONT AREA IMPACT (THIS SHEET)	
25' RA	
PREVIOUSLY DISTURBED	1299 SF
UNDISTURBED	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2545+60 TO STA. 2556+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

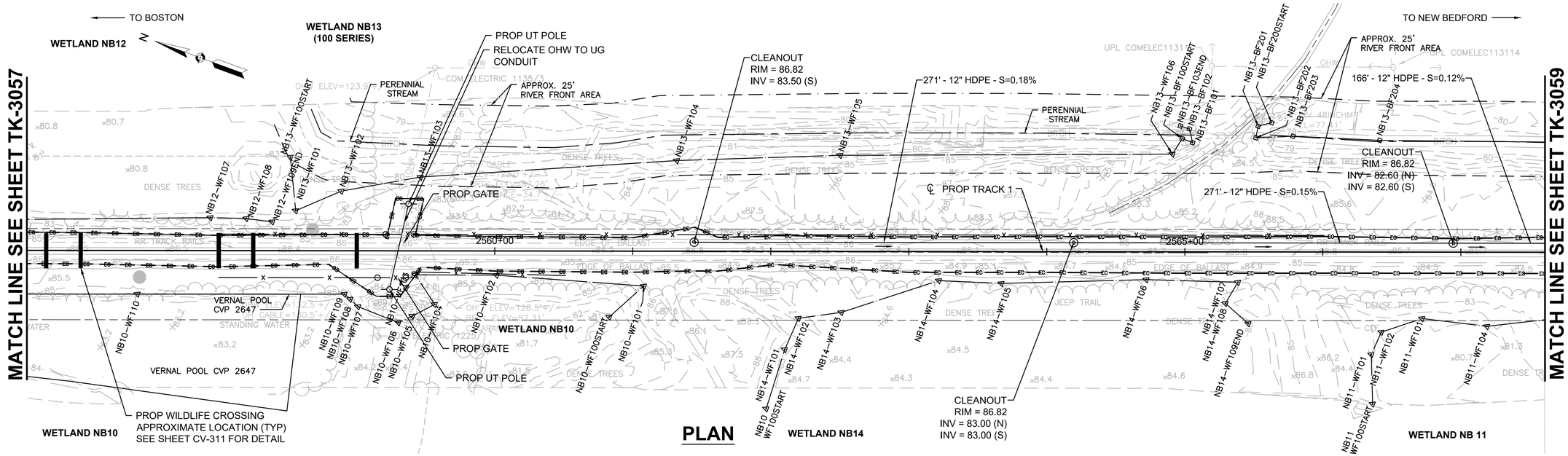
vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

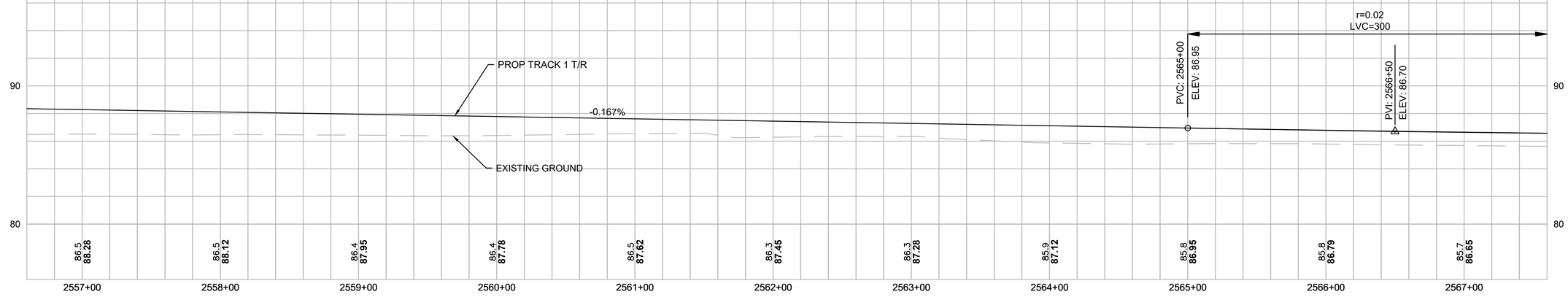
PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: AS SHOWN	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET TK-3057	

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_EVNEWBEDFORD_NOI1\.DWG
Plotted on June 4, 2018 12:31 PM





PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB12	
PERMANENT	0 SF
TEMPORARY	0SF
NB13	
PERMANENT	0 SF
TEMPORARY	0 SF
NB10	
PERMANENT	0 SF
TEMPORARY	0 SF
NB14	
PERMANENT	0 SF
TEMPORARY	0 SF
NB11	
PERMANENT	0 SF
TEMPORARY	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2556+60 TO STA. 2567+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

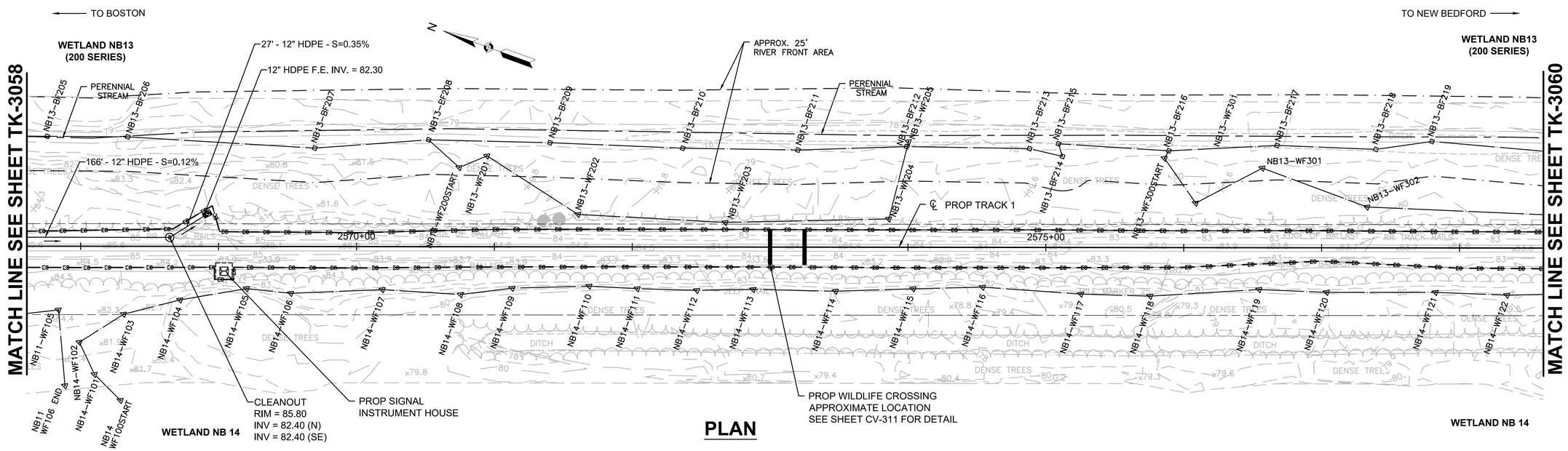
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

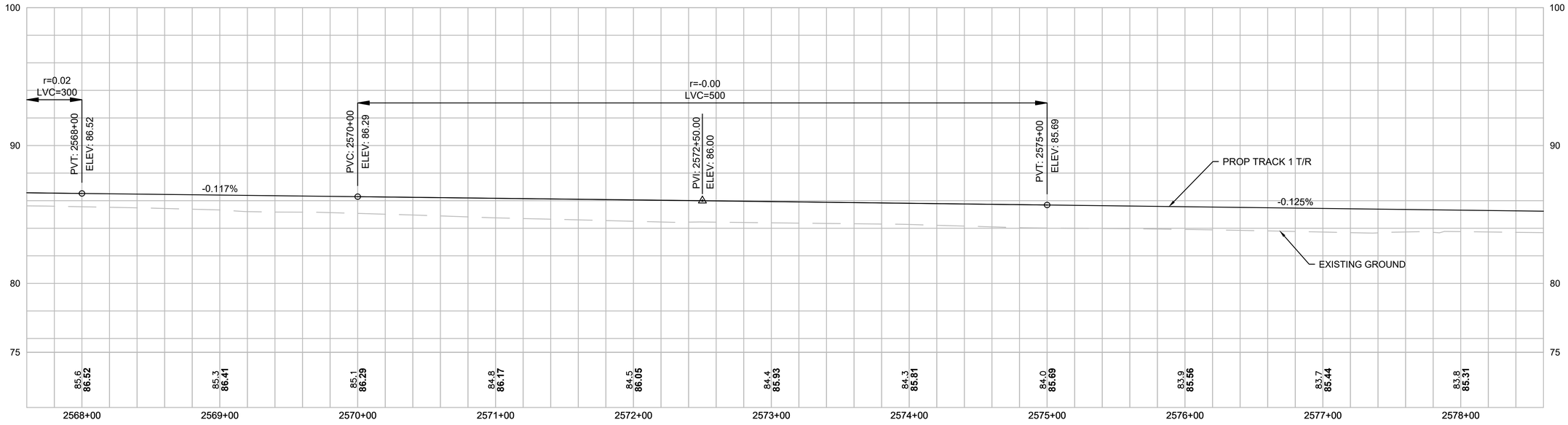
PROJECT MANAGER Date | PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: AS SHOWN	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET TK-3058	

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_EVNEWBEDFORD_NOI1).DWG

Plotted on June 4, 2018 12:32 PM





PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB13	
PERMANENT	0 SF
TEMPORARY	0 SF
NB11	
PERMANENT	0 SF
TEMPORARY	0 SF
NB14	
PERMANENT	0 SF
TEMPORARY	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2567+60 TO STA. 2578+60

ISSUE	DATE	DESCRIPTION	BY	CHKD	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

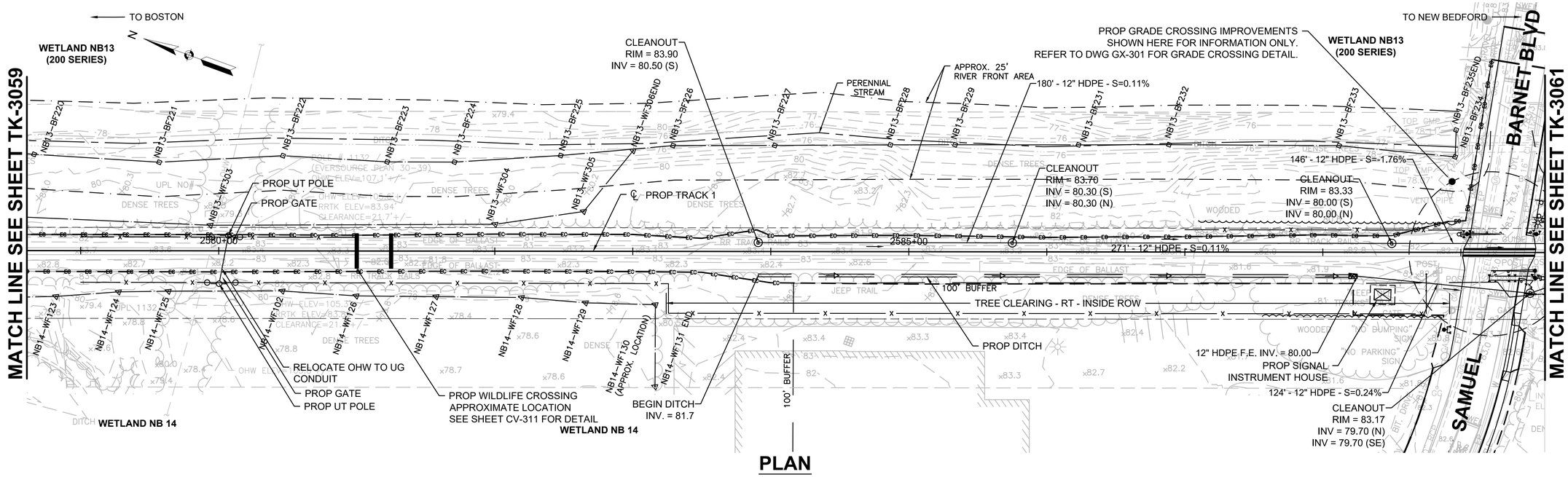
PROJECT MANAGER Date
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

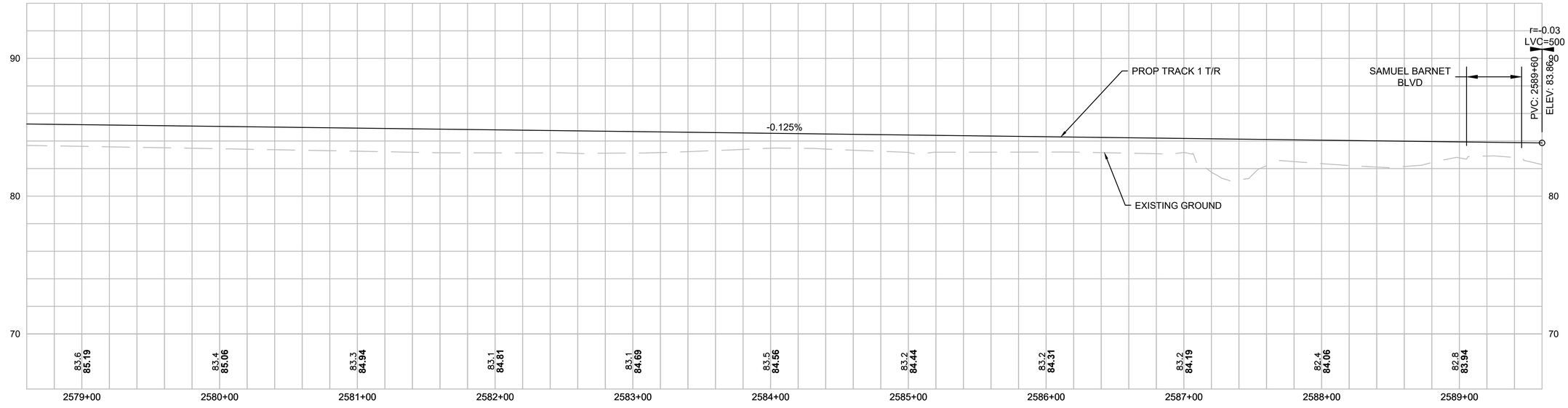
PLAN NO.
SHEET TK-3059
ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG

Plotted on: June 4, 2018 12:34 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB13	
PERMANENT	0 SF
TEMPORARY	0 SF
NB14	
PERMANENT	0 SF
TEMPORARY	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2578+60 TO STA. 2589+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

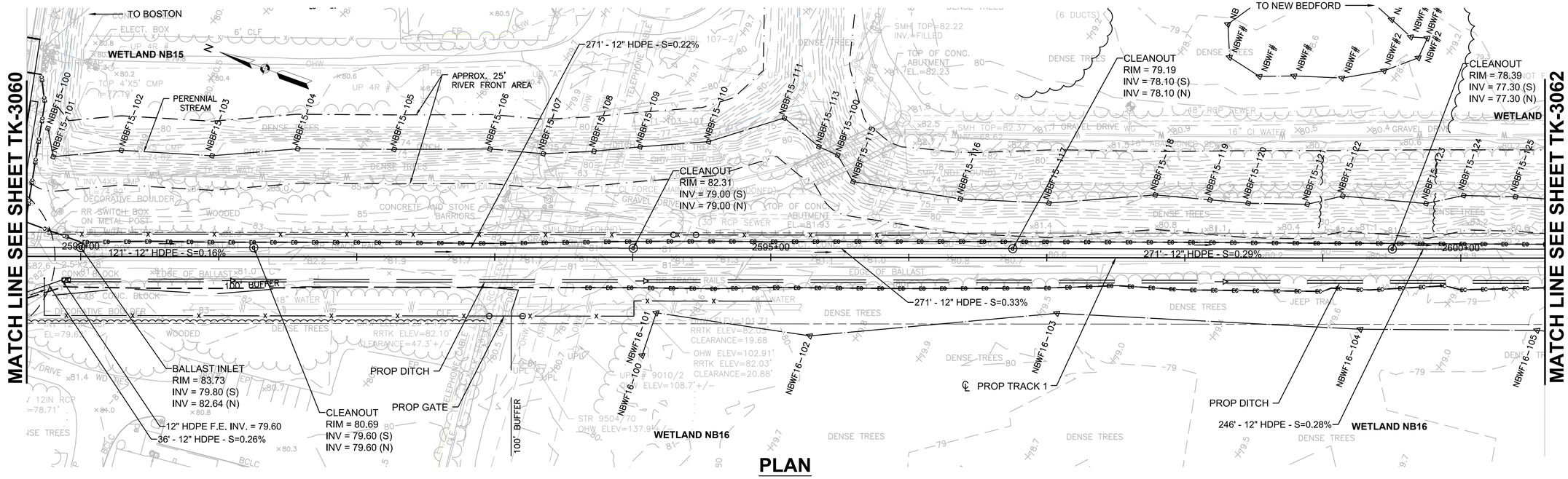
vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

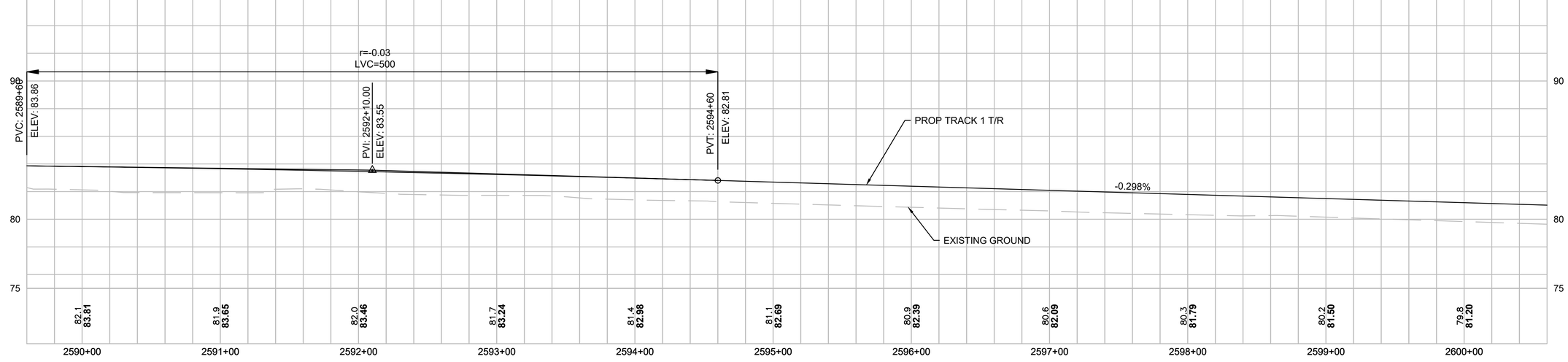
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: AS SHOWN	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET TK-3060	

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG
Plotted on June 4, 2018 12:38 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB16	
PERMANENT	0 SF
TEMPORARY	0 SF
NBWF#2 - TPSS-2	
PERMANENT	0 SF
TEMPORARY	0 SF

NOTE:
SEE SHEET TP-301 FOR IMPACT AREAS NOT SHOWN ON THIS DRAWING

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2589+60 TO STA. 2600+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

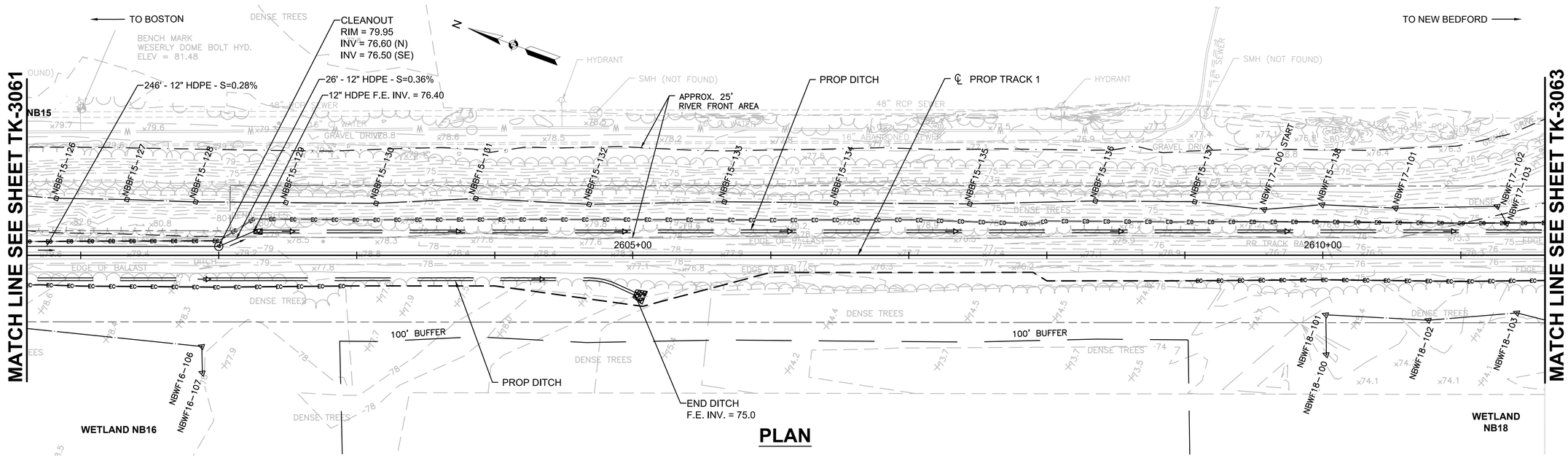
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

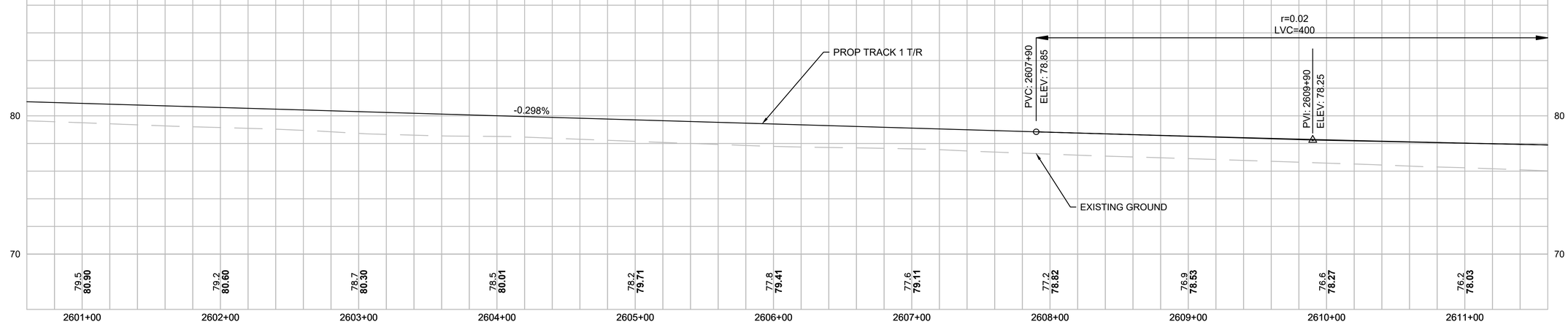
HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET TK-3061
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG

Plotted on: June 4, 2018 - 12:39 PM





PROFILE

PLAN

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB15	
PERMANENT	0 SF
TEMPORARY	0 SF
NB17	
PERMANENT	0 SF
TEMPORARY	0 SF
NB16	
PERMANENT	0 SF
TEMPORARY	0 SF
NB18	
PERMANENT	0 SF
TEMPORARY	0 SF

RIVERFRONT AREA IMPACT (THIS SHEET)	
25' RA	
PREVIOUSLY DISTURBED	10082 SF
UNDISTURBED	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2600+60 TO STA. 2611+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.
				####	

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

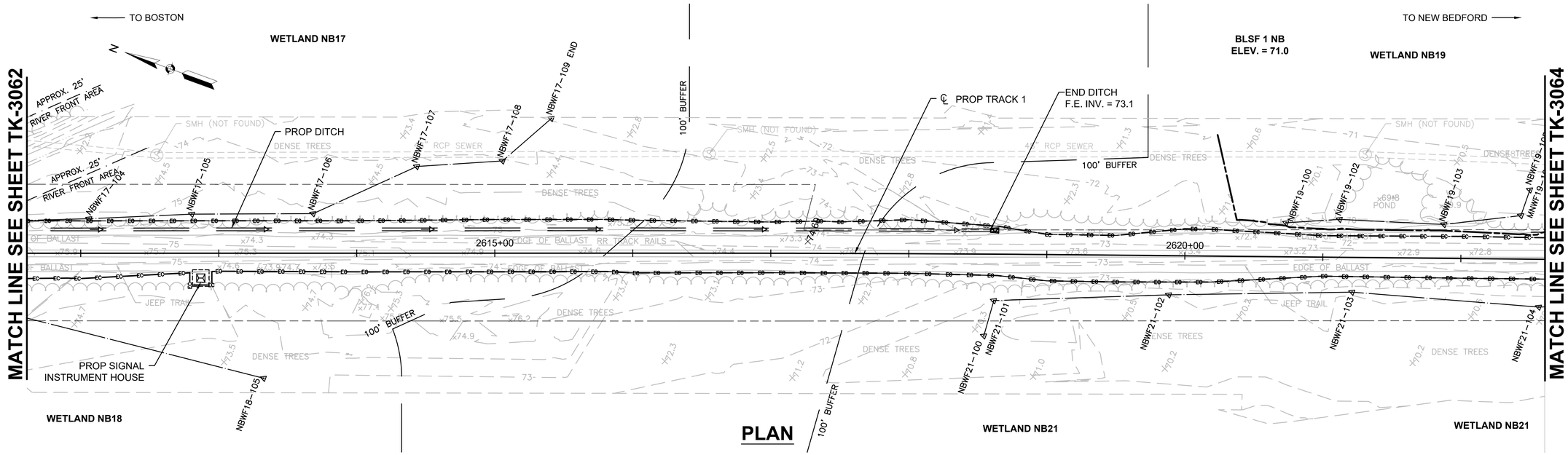
HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

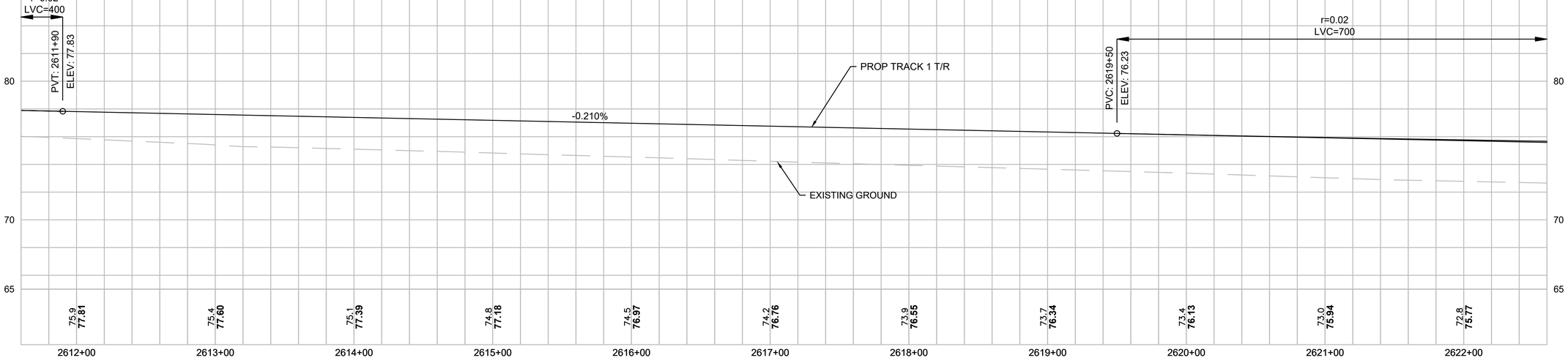
PLAN NO.
SHEET TK-3062
ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG

Plotted on: June 4, 2018 12:40 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB17	
PERMANENT	0 SF
TEMPORARY	0 SF
NB19	
PERMANENT	0 SF
TEMPORARY	0 SF
NB18	
PERMANENT	0 SF
TEMPORARY	0 SF
NB21	
PERMANENT	0 SF
TEMPORARY	0 SF

HOR. SCALE IN FEET
40 0 40 80
VER. SCALE IN FEET
4 0 4 8

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2611+60 TO STA. 2622+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

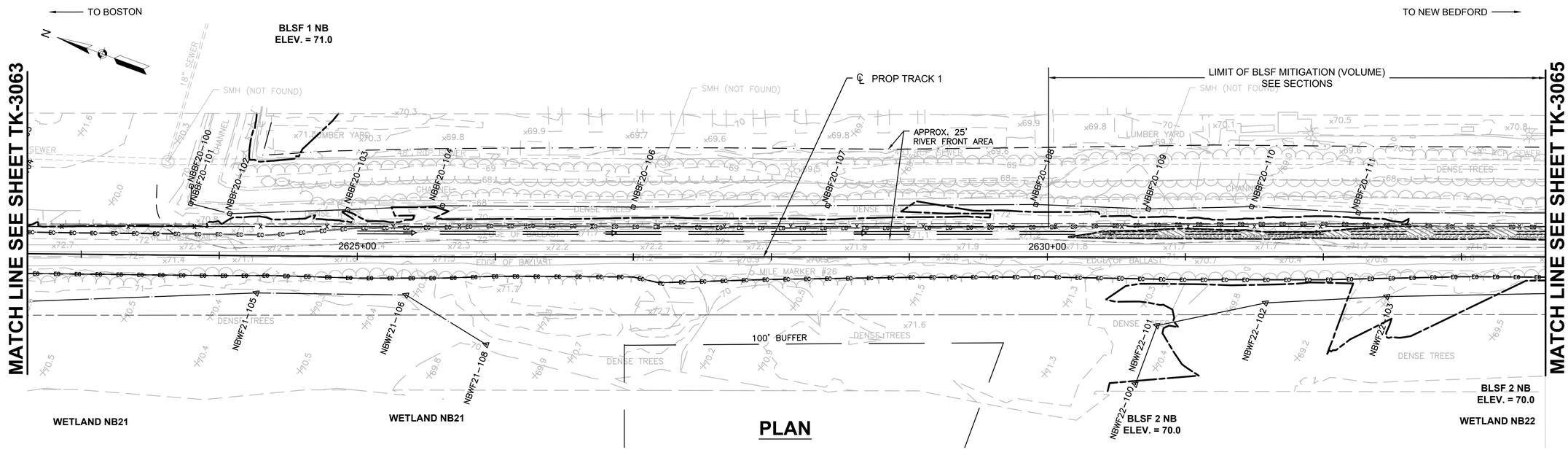
HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

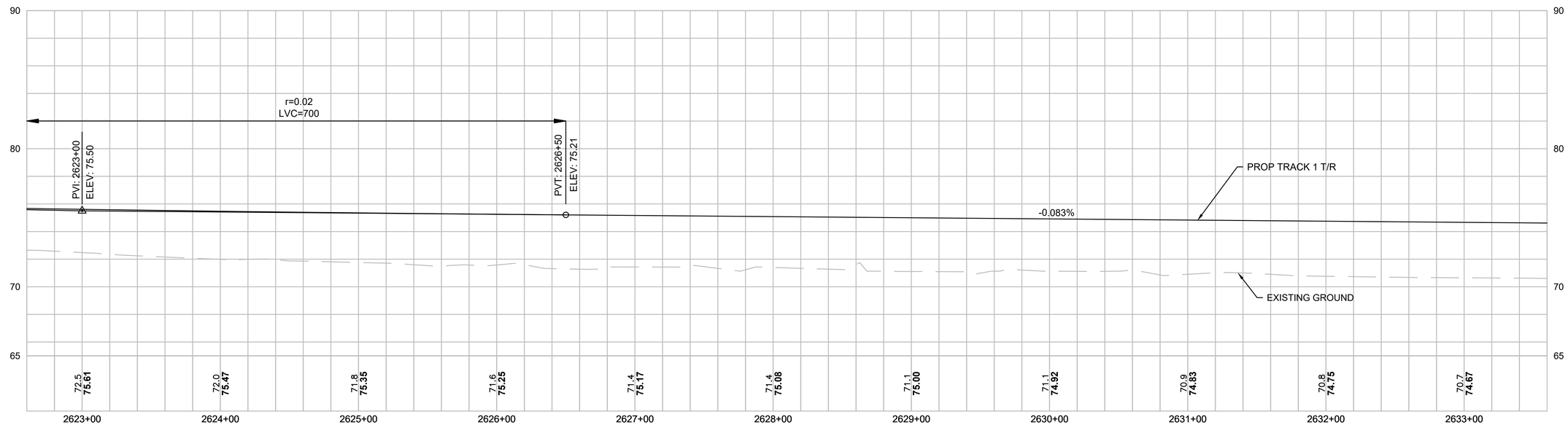
PLAN NO.
SHEET TK-3063
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG

Plotted on June 4, 2018 12:41 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB21	
PERMANENT	0 SF
TEMPORARY	0 SF
NB22	
PERMANENT	0 SF
TEMPORARY	0 SF

RIVERFRONT AREA IMPACT (THIS SHEET)	
25' RA	
PREVIOUSLY DISTURBED	10978 SF
UNDISTURBED	0 SF

BLSF IMPACT (THIS SHEET)	
BLSF 1	
PERMANENT AREA	783 SF
TEMPORARY AREA	1558 SF
VOLUME 70' TO 71'	223 CF
BLSF 2	
PERMANENT AREA	0 SF
TEMPORARY AREA	0 SF
VOLUME 69' TO 70'	0 CF

BLSF MITIGATION (THIS SHEET)	
BLSF 1	
VOLUME 70' TO 71'	1435 CF
BLSF 2	
VOLUME 69' TO 70'	0 CF

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NB20	
TEMP BANK	0 LF
LAND UNDER WATER	0 SF
TEMP LAND UNDER WATER	0 SF

NOTE: FOR MITIGATION VOLUMES, SEE CROSS SECTIONS

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2622+60 TO STA. 2633+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

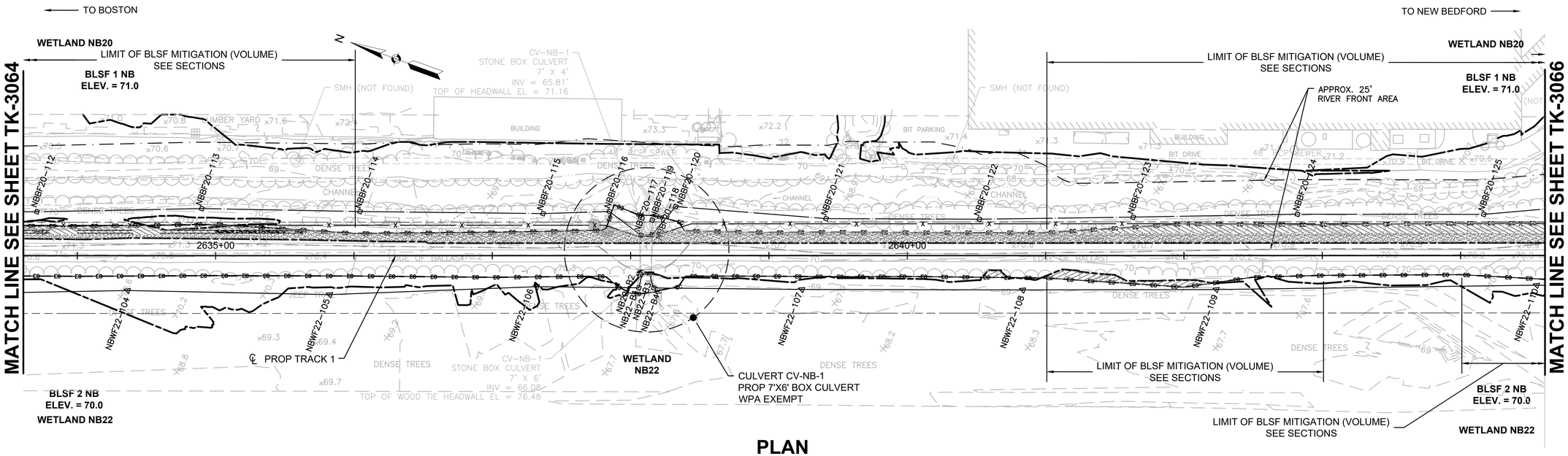
HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

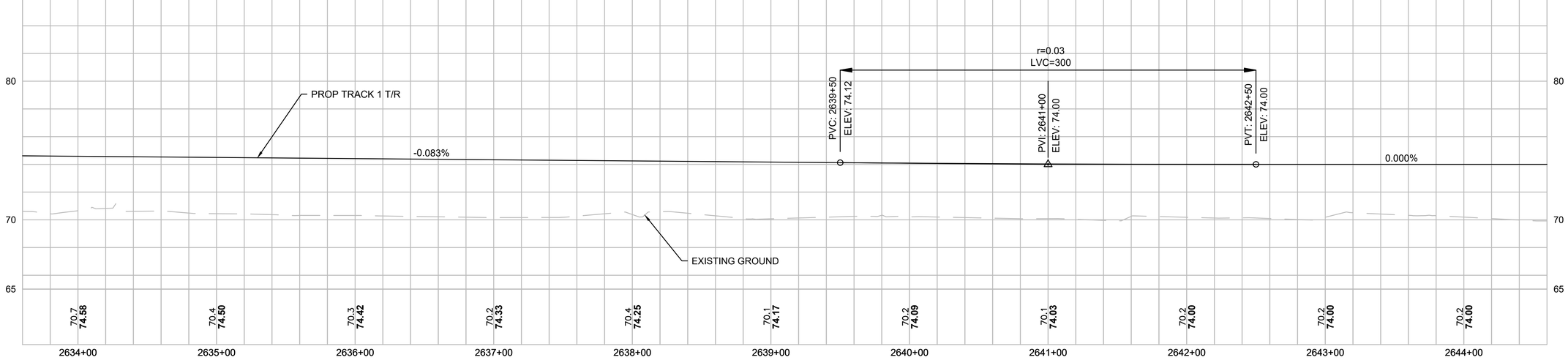
PLAN NO.
SHEET TK-3064
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG

Plotted on June 4, 2018 12:42 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

BLSF IMPACT (THIS SHEET)	
BLSF 1	
PERMANENT AREA	7238 SF
TEMPORARY AREA	3050 SF
VOLUME 70' TO 71'	351 CF
VOLUME 69' TO 70'	72 CF
BLSF 2	
PERMANENT AREA	0 SF
TEMPORARY AREA	586 SF
VOLUME 69' TO 70'	5 CF

BLSF MITIGATION (THIS SHEET)	
BLSF 1	
VOLUME 70' TO 71'	315 CF
VOLUME 69' TO 70'	510 CF
BLSF 2	
VOLUME 69' TO 70'	422 CF

WETLAND IMPACT (THIS SHEET)	
NB22	
PERMANENT	0 SF
TEMPORARY	0 SF

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NB20	
TEMP BANK	0 LF
LAND UNDER WATER	0 SF
TEMP LAND UNDER WATER	0 SF
NB22	
TEMP BANK	0 LF
LAND UNDER WATER	0 SF
TEMP LAND UNDER WATER	0 SF

RIVERFRONT AREA IMPACT (THIS SHEET)	
25' RA	
PREVIOUSLY DISTURBED	15898 SF
UNDISTURBED	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

NOTE: FOR MITIGATION VOLUMES, SEE CROSS SECTIONS

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2633+60 TO STA. 2644+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

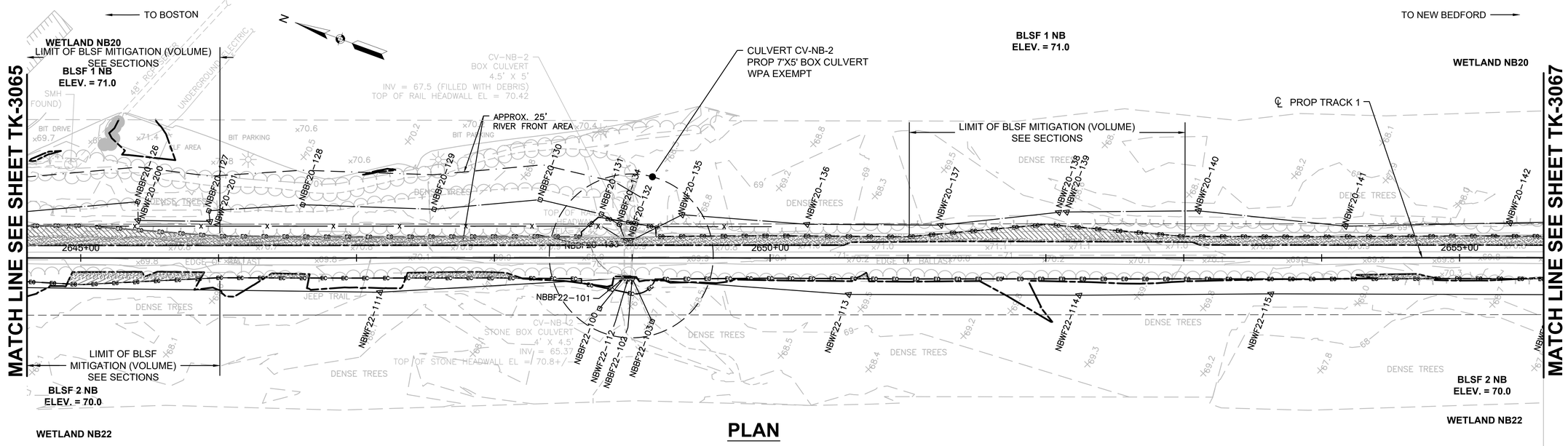
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date
PROJECT MANAGER Date

HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

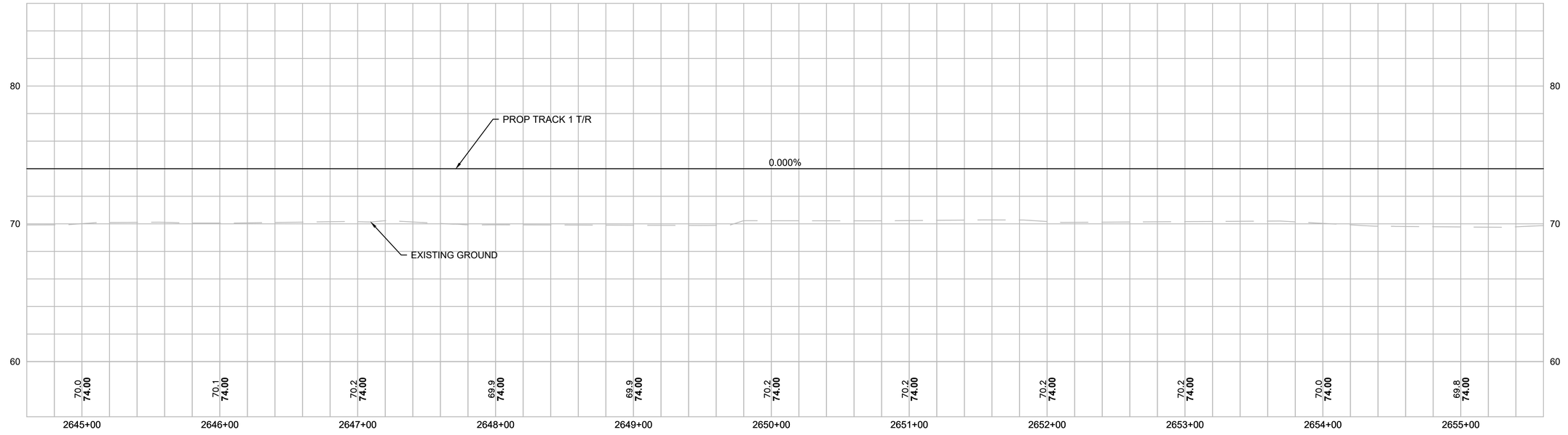
DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.
SHEET TK-3065
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG
Plotted on June 4, 2018 12:43 PM



PLAN



PROFILE

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

NOTE: FOR MITIGATION VOLUMES, SEE CROSS SECTIONS

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

BLSF IMPACT (THIS SHEET)	
BLSF 1	
PERMANENT AREA	6115 SF
TEMPORARY AREA	1758 SF
VOLUME 70' TO 71'	2066 CF
VOLUME 69' TO 70'	93 CF
BLSF 2	
PERMANENT AREA	1000 SF
TEMPORARY AREA	223 SF
VOLUME 69' TO 70'	703 CF

BLSF MITIGATION (THIS SHEET)	
BLSF 1	
VOLUME 70' TO 71'	435 CF
VOLUME 69' TO 70'	130 CF
BLSF 2	
VOLUME 69' TO 70'	32 CF

WETLAND IMPACT (THIS SHEET)	
NB20	
PERMANENT	0 SF
TEMPORARY	0 SF
NB22	
PERMANENT	0 SF
TEMPORARY	0 SF

RIVERFRONT AREA IMPACT (THIS SHEET)	
25' RA	
PREVIOUSLY DISTURBED	2851 SF
UNDISTURBED	0 SF

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NB20	
TEMP BANK	0 LF
LAND UNDER WATER	0 SF
TEMP LAND UNDER WATER	0 SF
NB22	
TEMP BANK	0 LF
LAND UNDER WATER	0 SF
TEMP LAND UNDER WATER	0 SF

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2644+60 TO STA. 2655+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

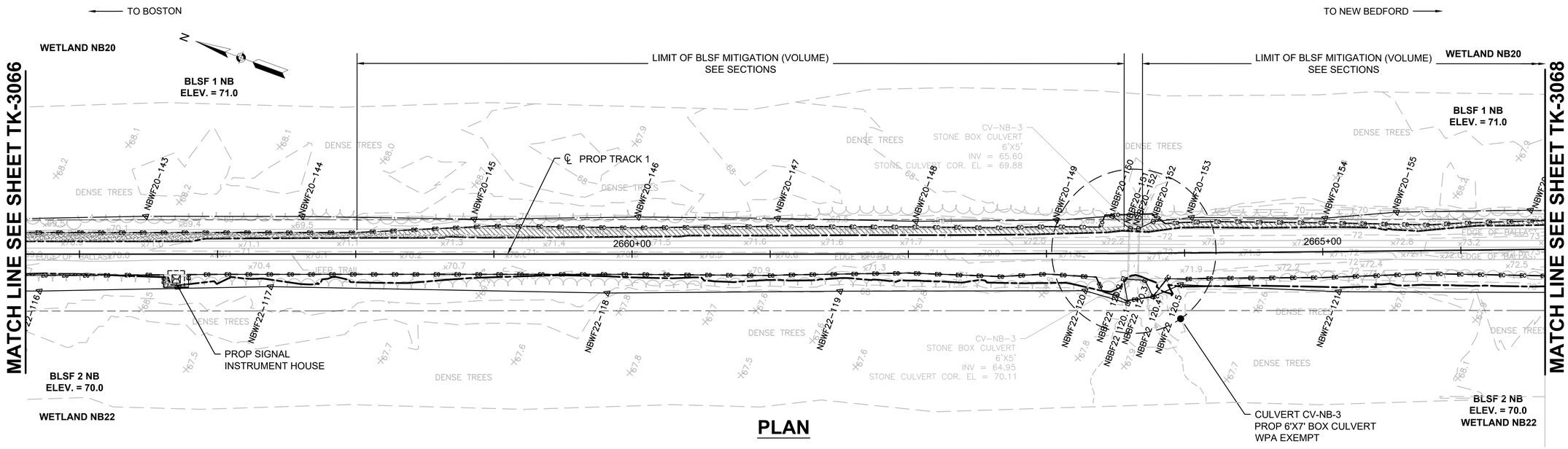
vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

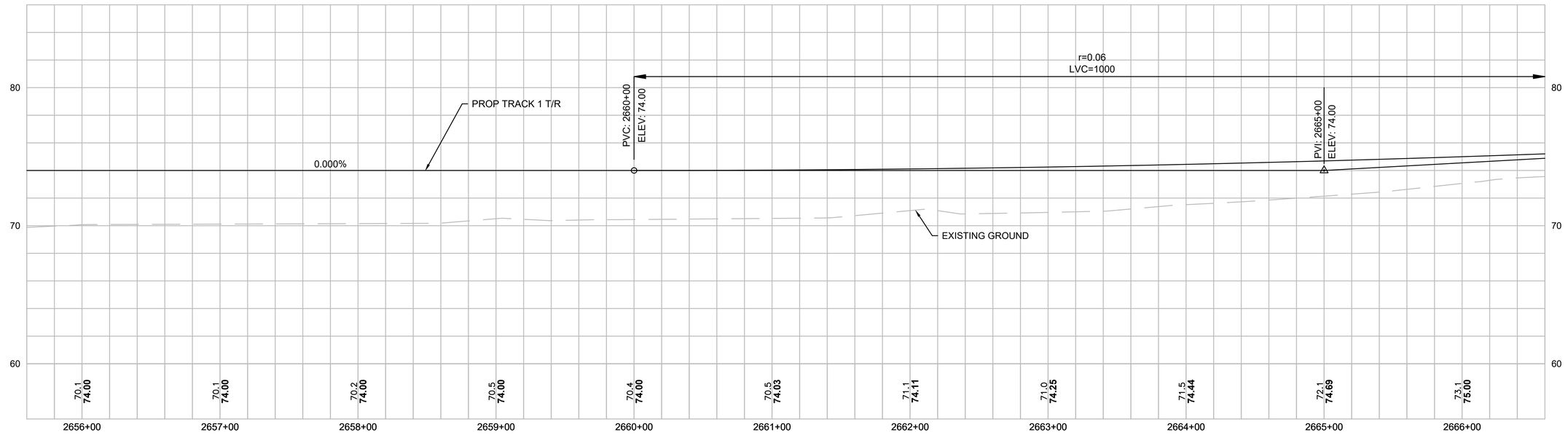
PROJECT MANAGER Date | PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: AS SHOWN	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET TK-3066	

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_EVNEWBEDFORD_NOI1).DWG
Plotted on June 4, 2018 12:44 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

NOTE: FOR MITIGATION VOLUMES, SEE CROSS SECTIONS

WETLAND IMPACT (THIS SHEET)	
NB20	
PERMANENT	0 SF
TEMPORARY	0 SF
NB22	
PERMANENT	0 SF
TEMPORARY	0 SF

BLSF IMPACT (THIS SHEET)	
BLSF 1	
PERMANENT AREA	1595 SF
TEMPORARY AREA	3938 SF
VOLUME 70' TO 71'	571 CF
VOLUME 69' TO 70'	45 CF
BLSF 2	
PERMANENT AREA	109 SF
TEMPORARY AREA	0 SF
VOLUME 69' TO 70'	0 CF

BLSF MITIGATION (THIS SHEET)	
BLSF 1	
VOLUME 70' TO 71'	1945 CF
VOLUME 69' TO 70'	0 CF
BLSF 2	
VOLUME 69' TO 70'	0 CF

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NB20	
TEMP BANK	0 LF
LAND UNDER WATER	0 SF
TEMP LAND UNDER WATER	0 SF
NB22	
TEMP BANK	0 LF
LAND UNDER WATER	0 SF
TEMP LAND UNDER WATER	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2655+60 TO STA. 2666+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

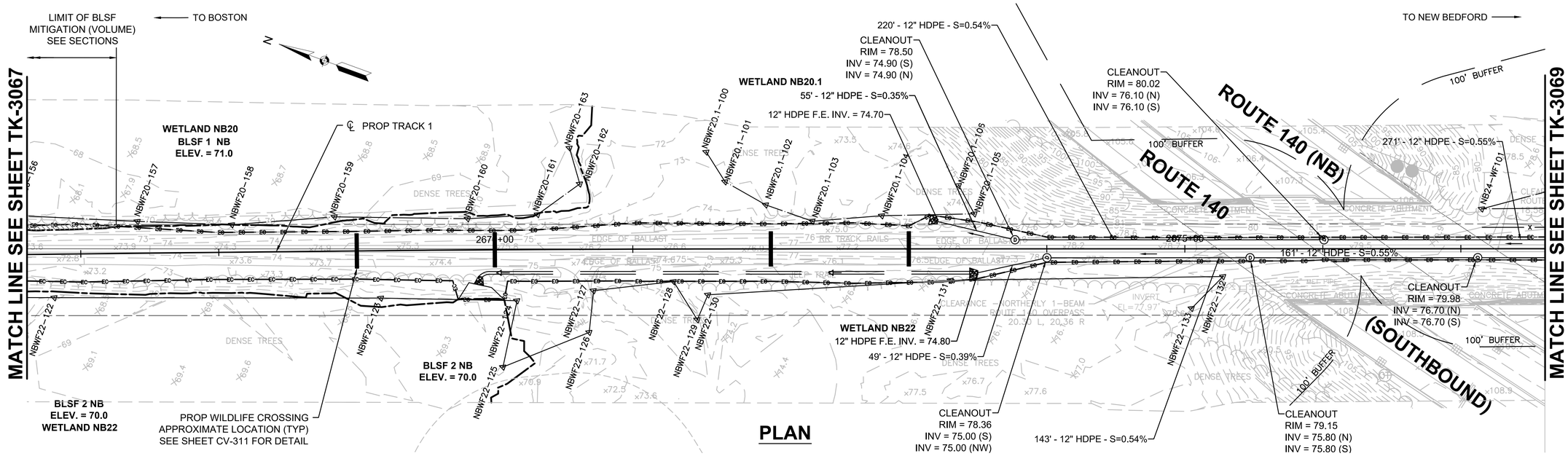
PROJECT MANAGER Date | PROJECT MANAGER Date

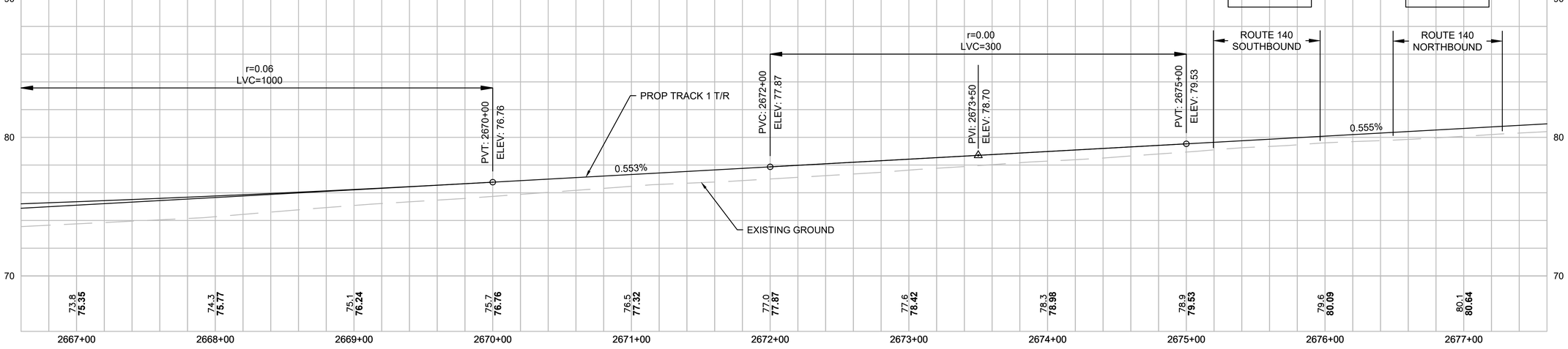
HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.
SHEET TK-3067
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNO) NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG
Plotted on June 4, 2018 12:45 PM





PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB20	
PERMANENT	0 SF
TEMPORARY	0 SF
NB20.1	
PERMANENT	0 SF
TEMPORARY	0 SF
NB24	
PERMANENT	0 SF
TEMPORARY	0 SF
NB22	
PERMANENT	16 SF
TEMPORARY	0 SF

BLSF IMPACT (THIS SHEET)	
BLSF 1	
PERMANENT AREA	0 SF
TEMPORARY AREA	199 SF
VOLUME 70' TO 71'	0 CF
BLSF 2	
PERMANENT AREA	0 SF
TEMPORARY AREA	0 SF

BLSF MITIGATION (THIS SHEET)	
BLSF 1	
VOLUME 70' TO 71'	85 CF
BLSF 2	
VOLUME 69' TO 70'	260 CF

NOTE: FOR MITIGATION VOLUMES, SEE CROSS SECTIONS

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2666+60 TO STA. 2677+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

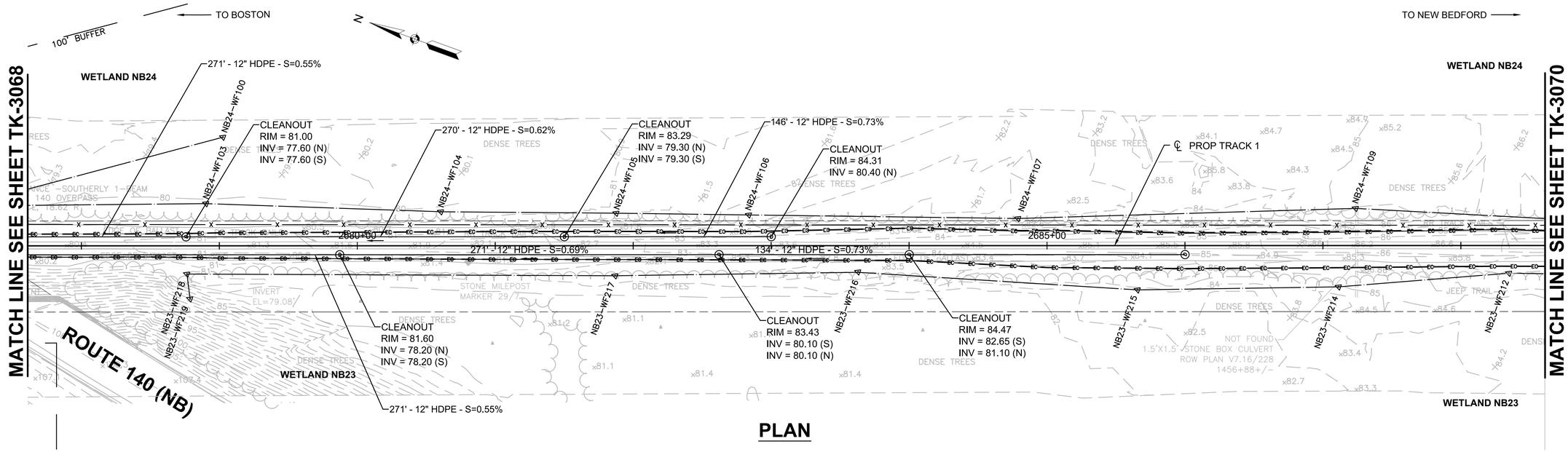
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date | PROJECT MANAGER Date

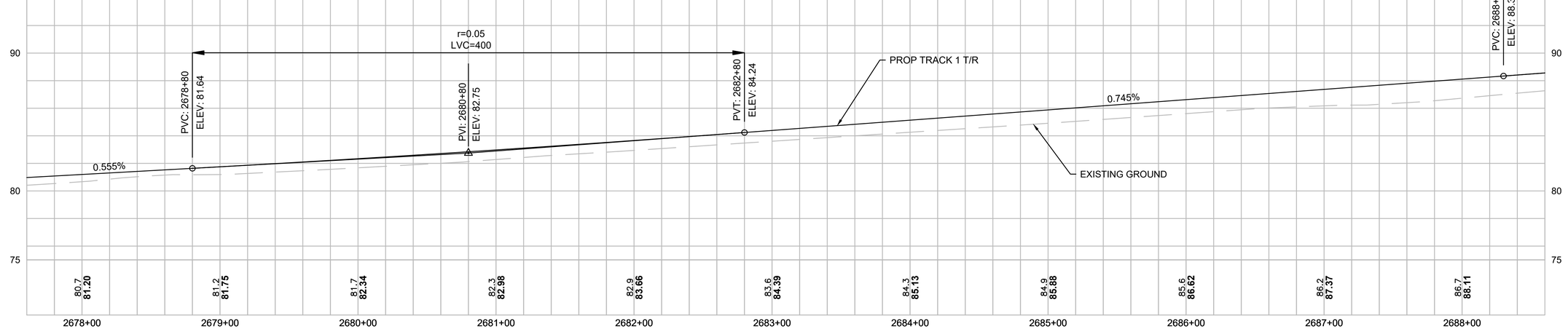
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VERT: AS SHOWN
DATE: 06/01/2018
DES. BY: ADZ | DR. BY: RRD | CHK. BY: KJC
PLAN NO.
SHEET TK-3068
ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG

Plotted on: June 6, 2018 - 12:17 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB24	
PERMANENT	0 SF
TEMPORARY	0 SF
NB23	
PERMANENT	0 SF
TEMPORARY	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2677+60 TO STA. 2688+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

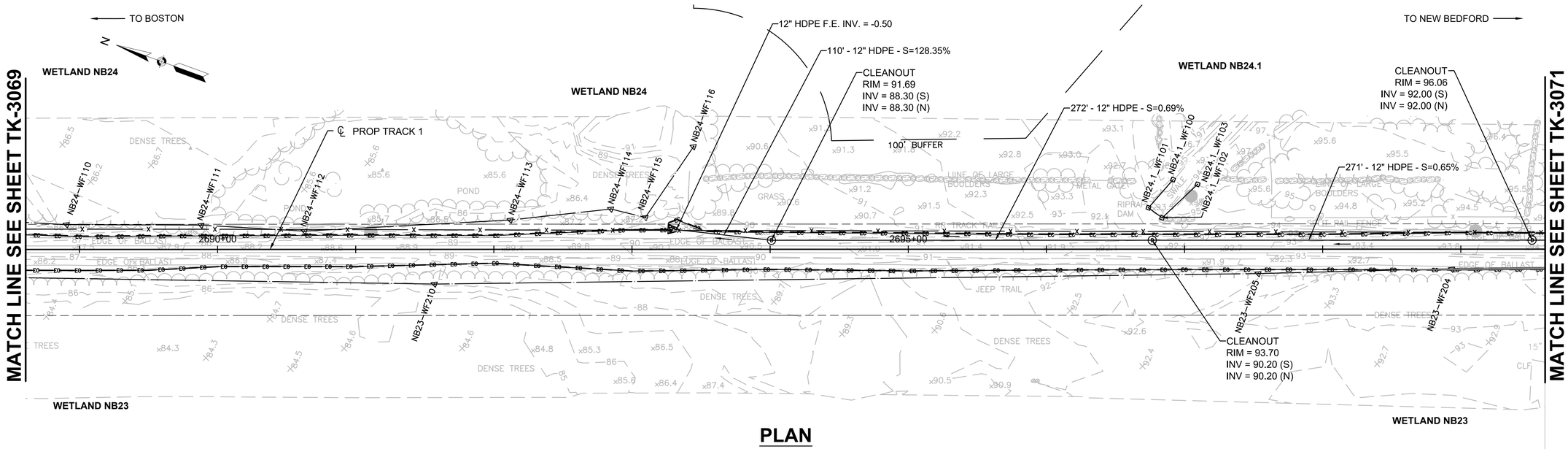
PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

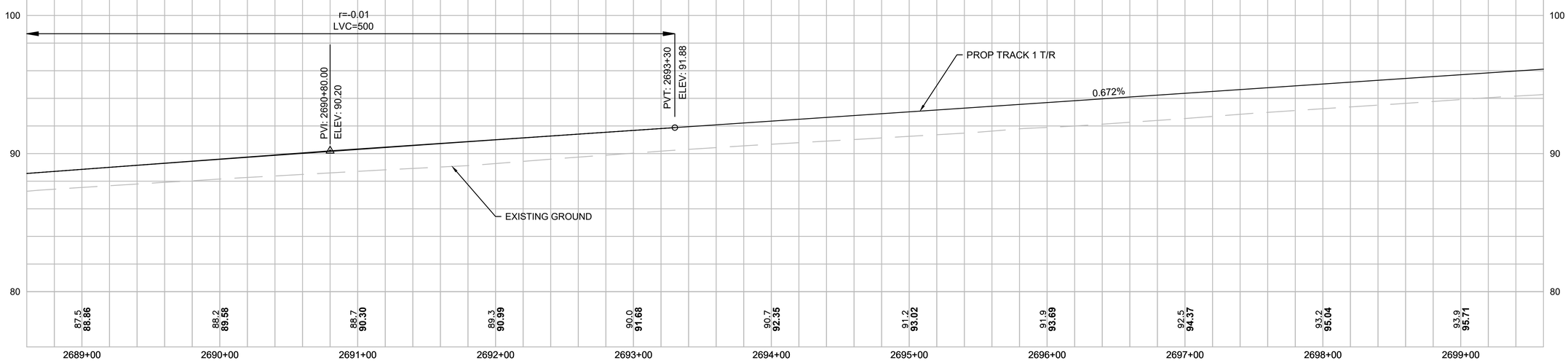
HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	PLAN NO.
VERT: AS SHOWN	ADZ	RRD	KJC	ISSUE
DATE: 06/01/2018				SHEET TK-3069

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG

Plotted on June 4, 2018 12:47 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB23	
PERMANENT	103 SF
TEMPORARY	0 SF
NB24	
PERMANENT	0 SF
TEMPORARY	0 SF
NB24.1	
PERMANENT	0 SF
TEMPORARY	0 SF

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NB24.1	
TEMP BANK	0 LF
LAND UNDER WATER	0 SF
TEMP LAND UNDER WATER	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2688+60 TO STA. 2699+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

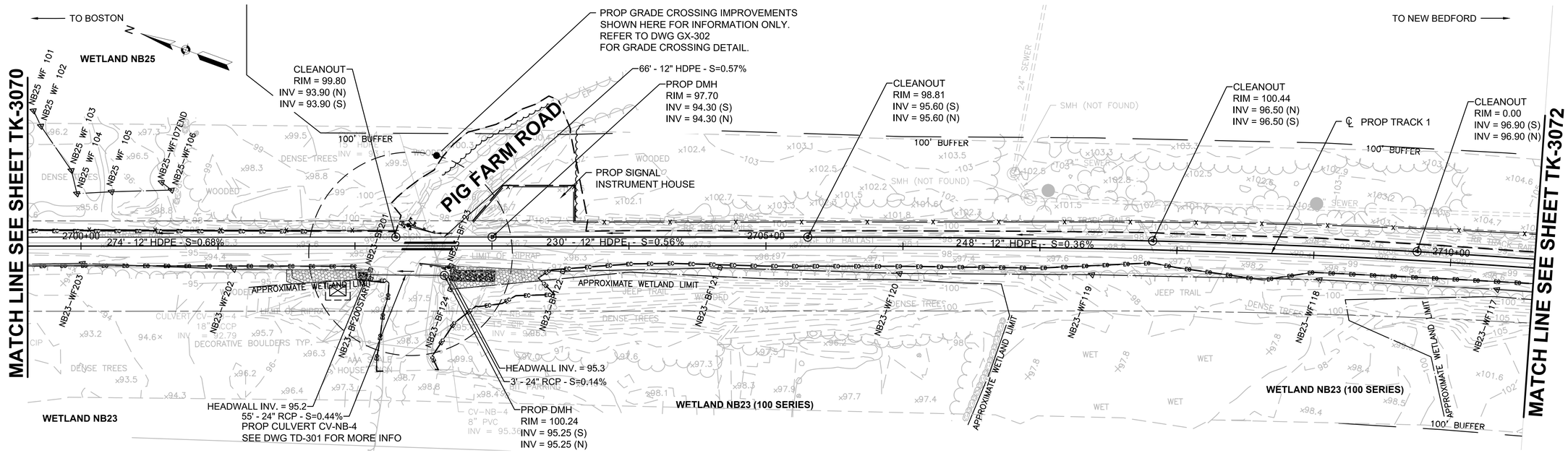
PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

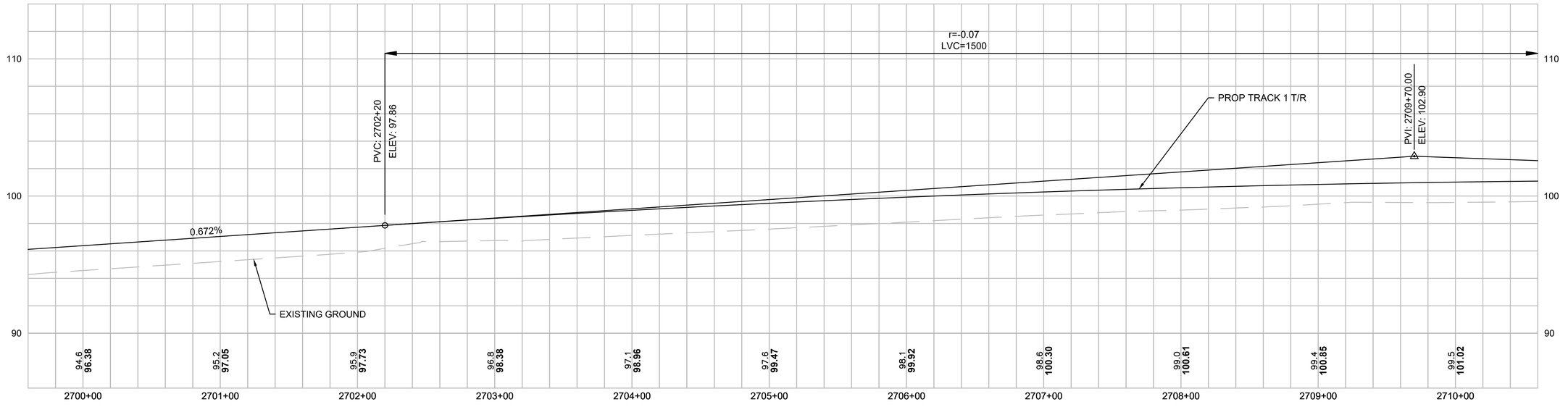
HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET TK-3070
ISSUE

Plotted on June 4, 2018 12:48 PM
FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NB 23 (100 SERIES)	
TEMP BANK	139 LF
LAND UNDER WATER	822 SF
TEMP LAND UNDER WATER	0 SF
BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NB 23	
TEMP BANK	120 LF
LAND UNDER WATER	465 SF
TEMP LAND UNDER WATER	58 SF

WETLAND IMPACT (THIS SHEET)	
NB23	
PERMANENT	100 SF
TEMPORARY	0 SF
NB23 (100 SERIES)	
PERMANENT	0 SF
TEMPORARY	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2699+60 TO STA. 2710+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

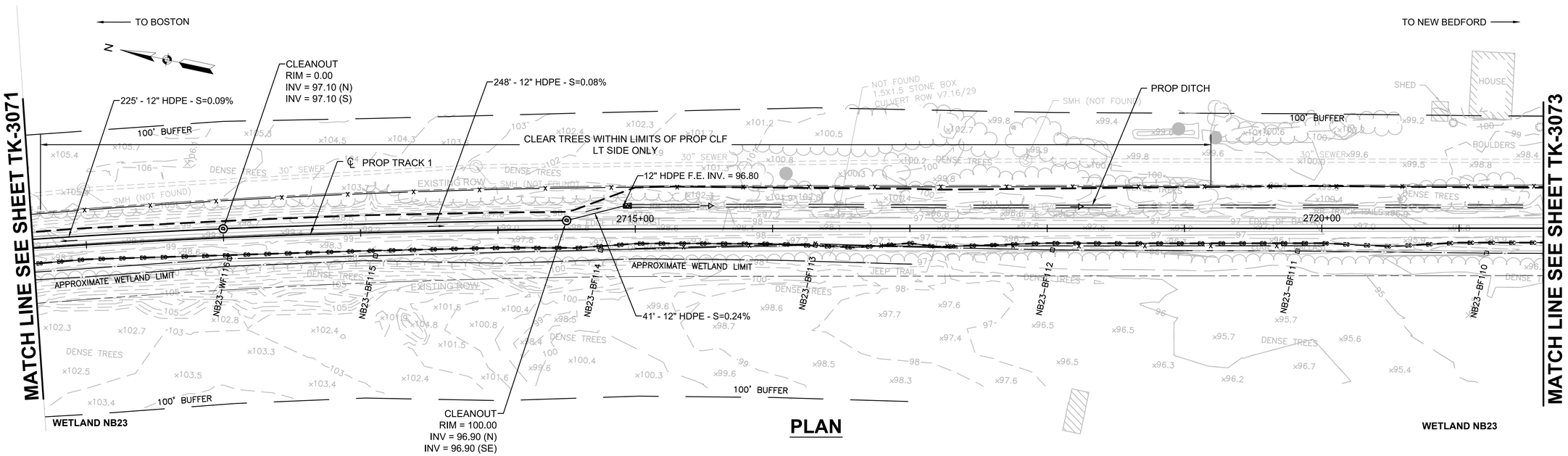
vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

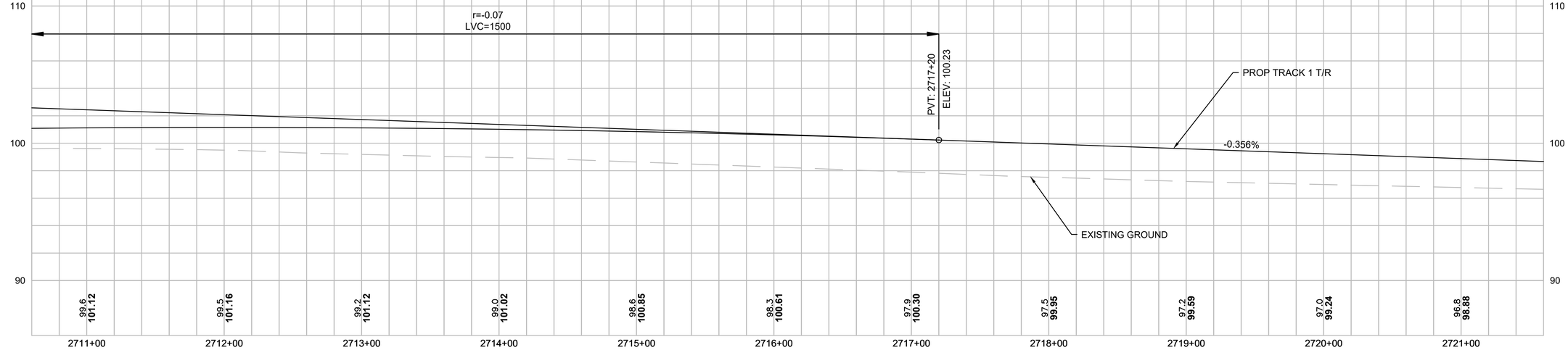
PROJECT MANAGER Date | PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: AS SHOWN	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET TK-3071	

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI1).DWG
Plotted on June 4, 2018 12:52 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB23	
PERMANENT	0 SF
TEMPORARY	0 SF

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NB23	
PERM BANK	0 LF
LAND UNDER WATER	31 SF
TEMP LAND UNDER WATER	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2710+60 TO STA. 2721+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

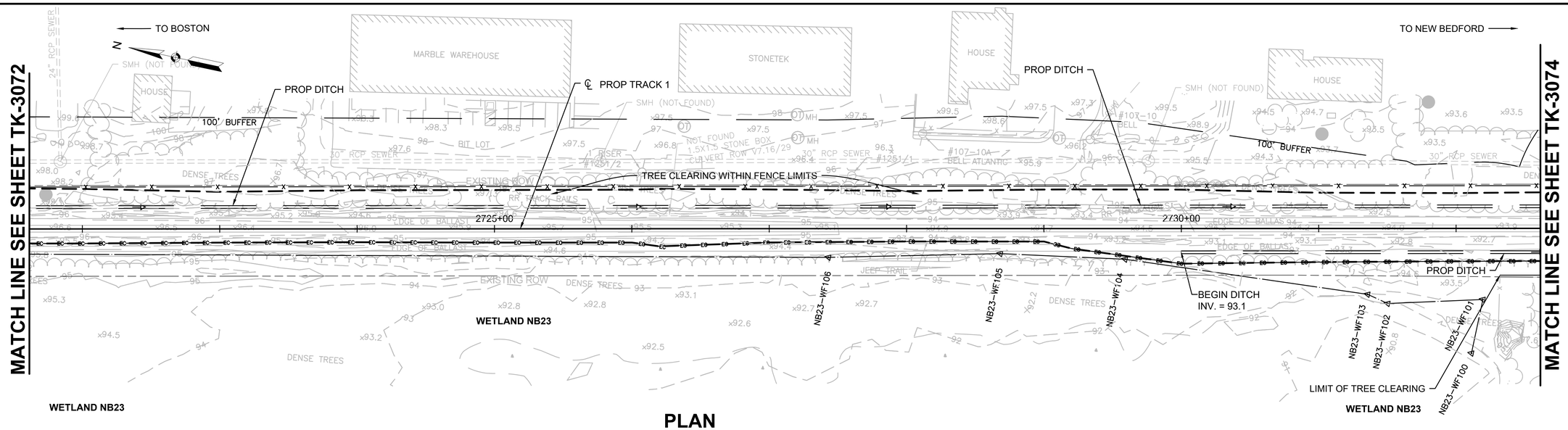
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

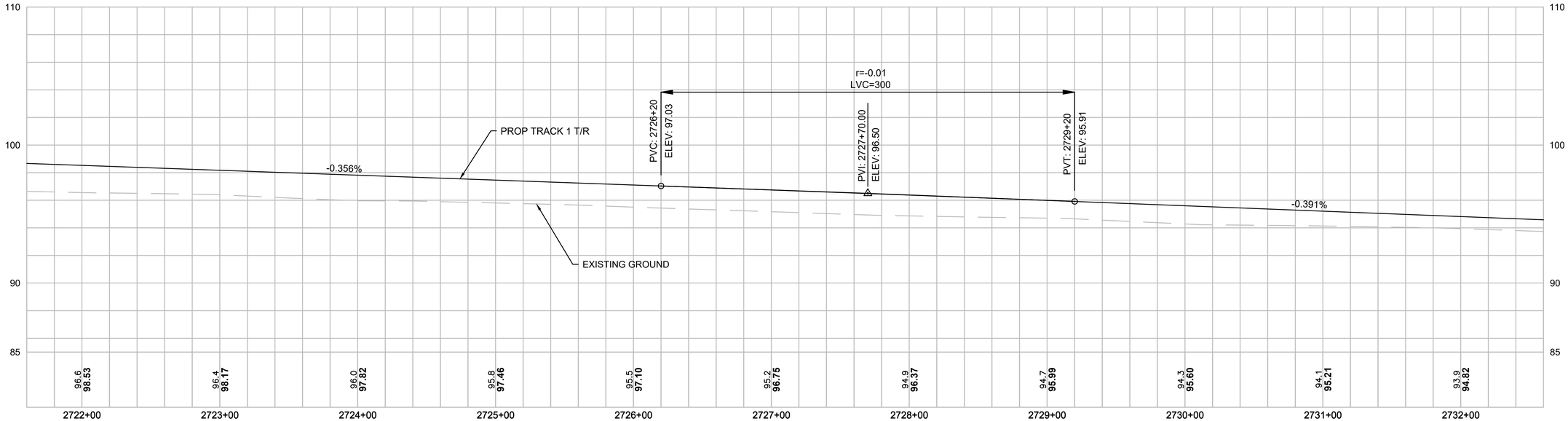
PLAN NO.
SHEET TK-3072
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CMCAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI2).DWG

Plotted on: June 6, 2018 10:32 AM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB23	
PERMANENT	0 SF
TEMPORARY	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2721+60 TO STA. 2732+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

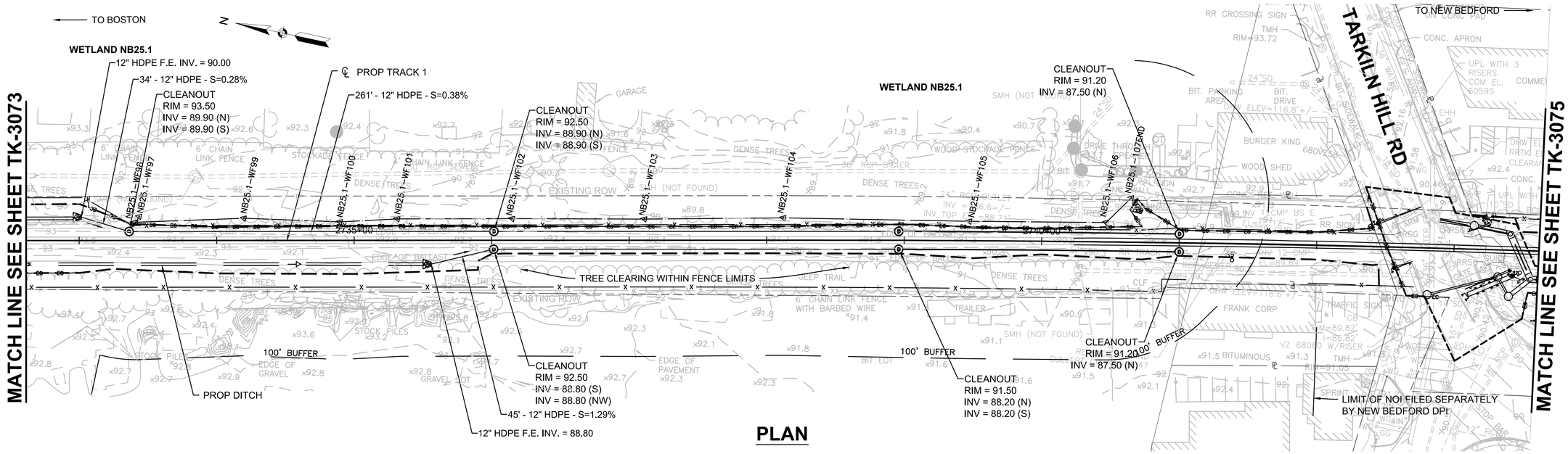
PROJECT MANAGER Date

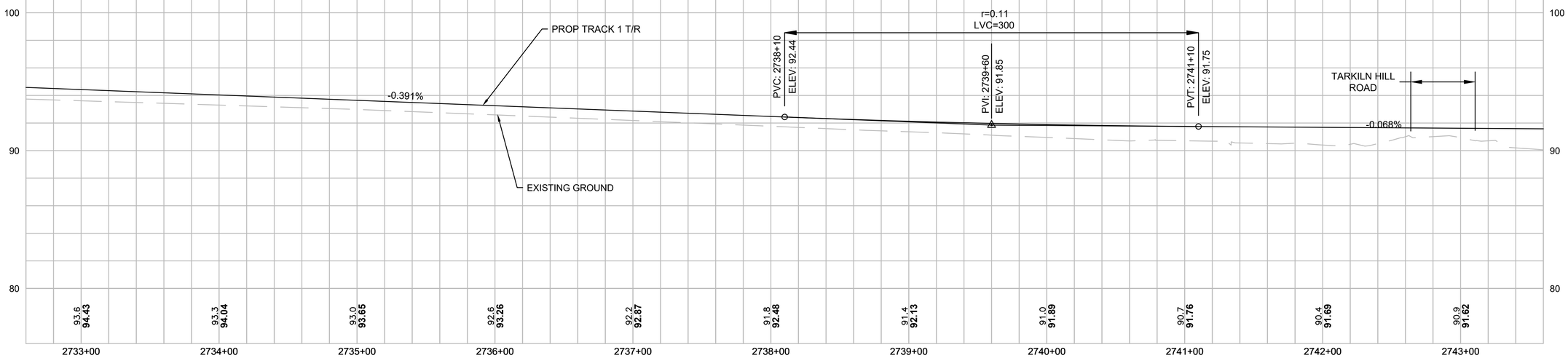
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.
SHEET TK-3073
ISSUE

Plotted on: June 6, 2018 9:29 AM
FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI2).DWG





PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB25.1	
PERMANENT	0 SF
TEMPORARY	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2732+60 TO STA. 2743+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

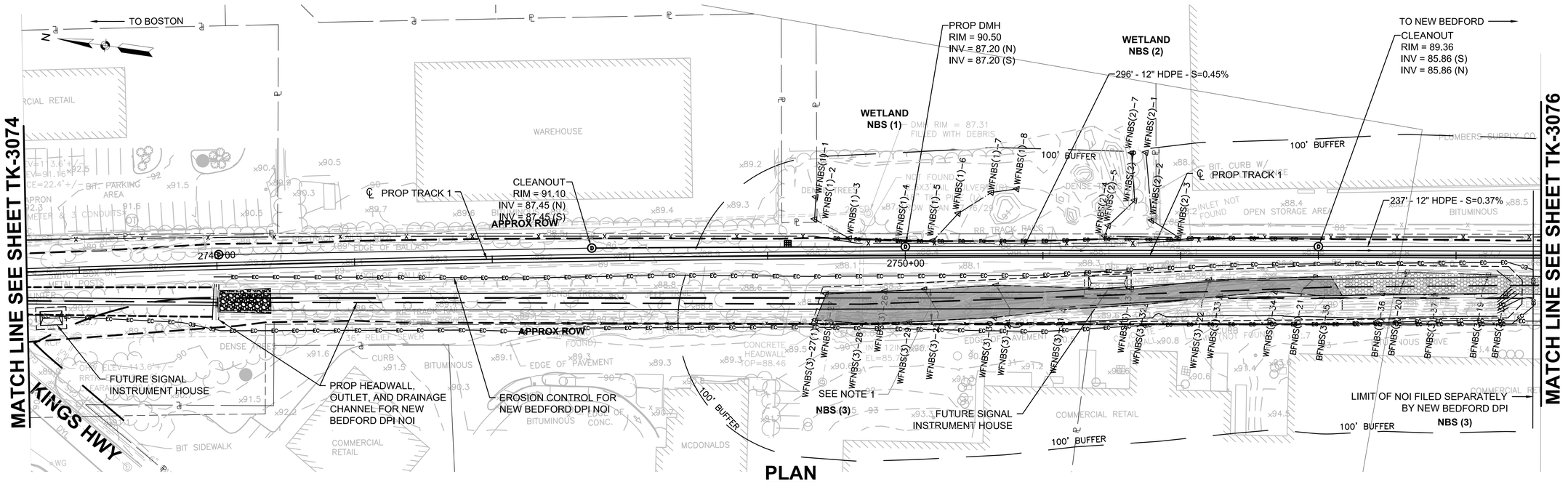
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

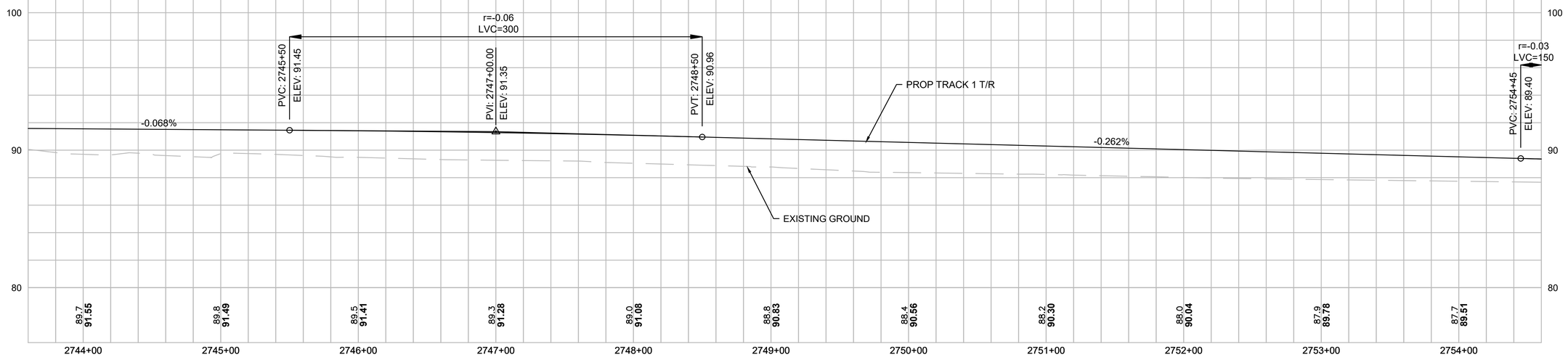
HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.
SHEET TK-3074
ISSUE

FILE NAME: \\VHBPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI2).DWG
Plotted on: June 6, 2018 9:30 AM





PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NBS(1)	
PERMANENT	0 SF
TEMPORARY	0 SF
NBS(2)	
PERMANENT	0 SF
TEMPORARY	0 SF

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NBS(3)	
PERM BANK	165 LF
LAND UNDER WATER	2338 SF
TEMP LAND UNDER WATER	0 SF

NOTE:

1. WETLAND AREA SHALL BE RESTORED TO FUNCTIONING DRAINAGE DITCH BY CITY OF NEW BEDFORD PRIOR TO TRACK CONSTRUCTION.

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2743+60 TO STA. 2754+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

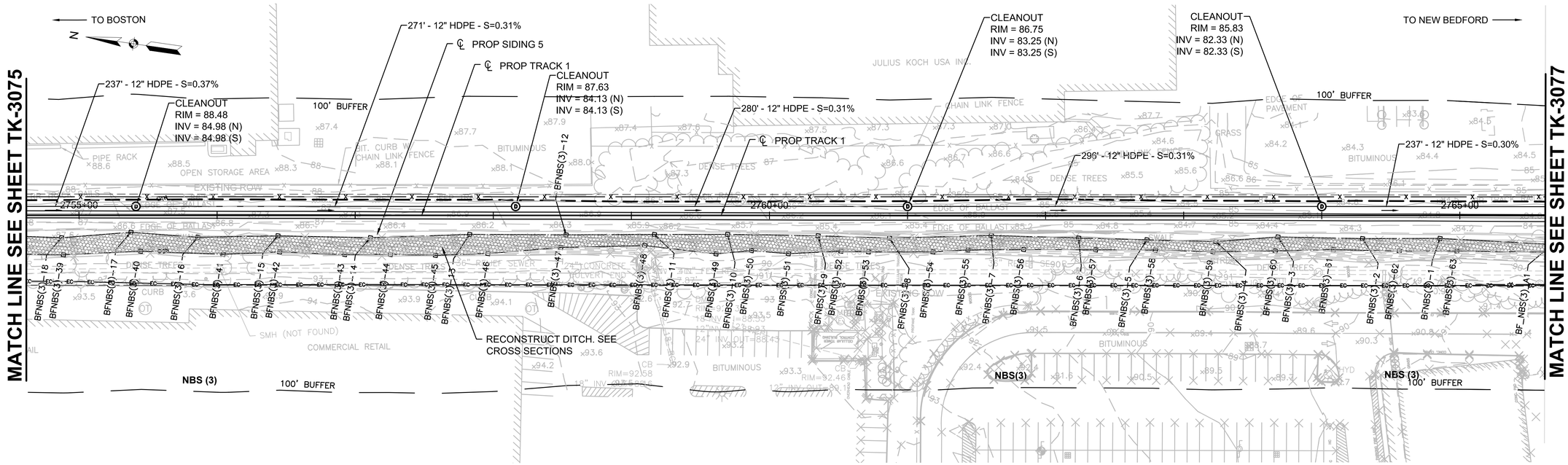
HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

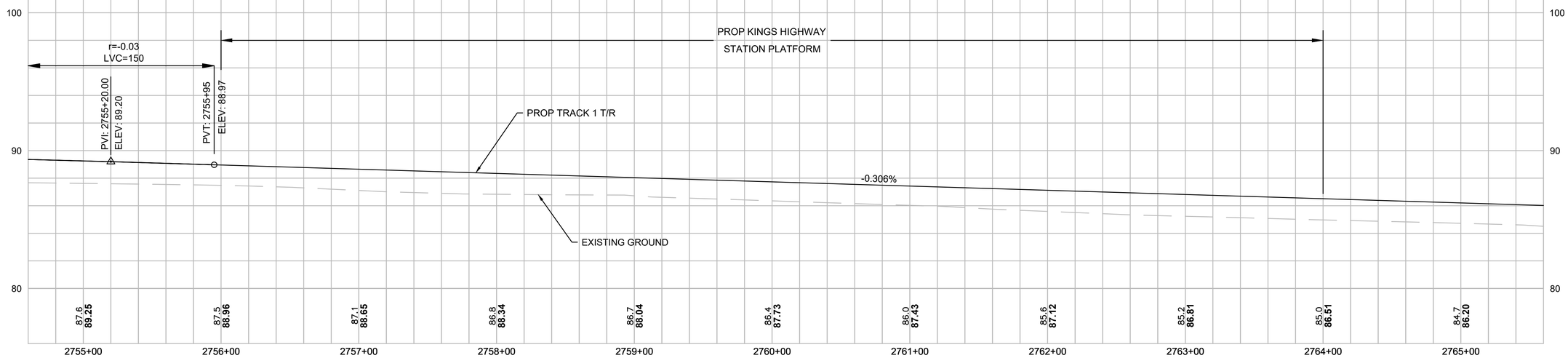
PLAN NO.
SHEET TK-3075
ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI2).DWG

Plotted on: June 6, 2018 10:37 AM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NBS(3)	
PERM BANK	1100 LF
LAND UNDER WATER	11581 SF
TEMP LAND UNDER WATER	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2754+60 TO STA. 2765+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

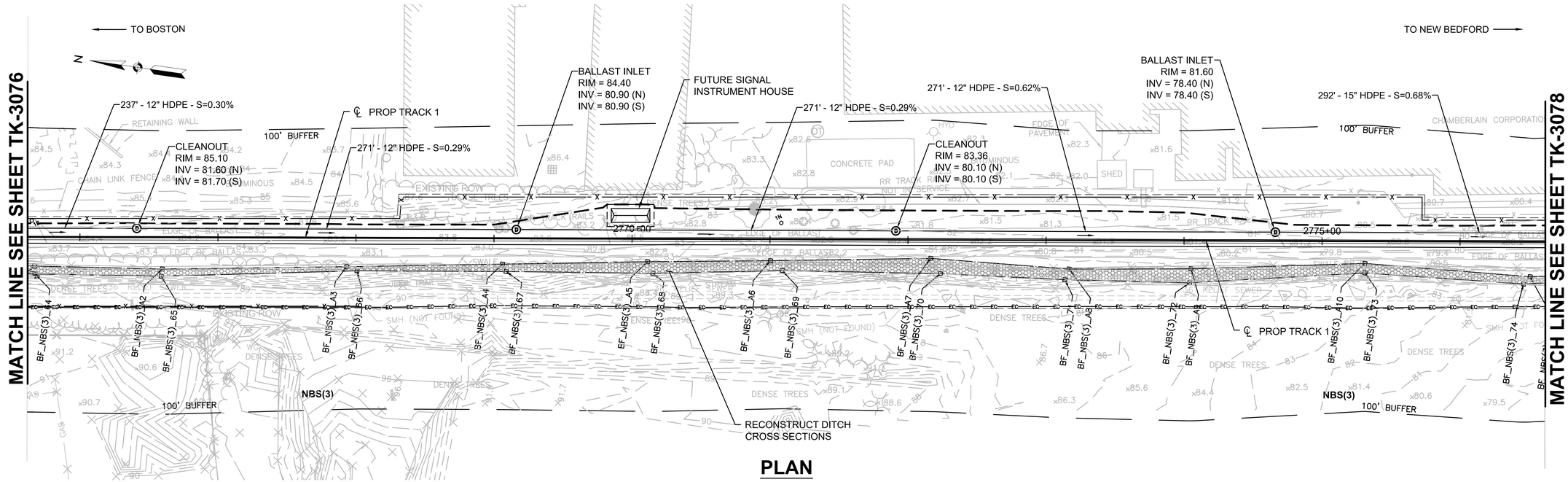
HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

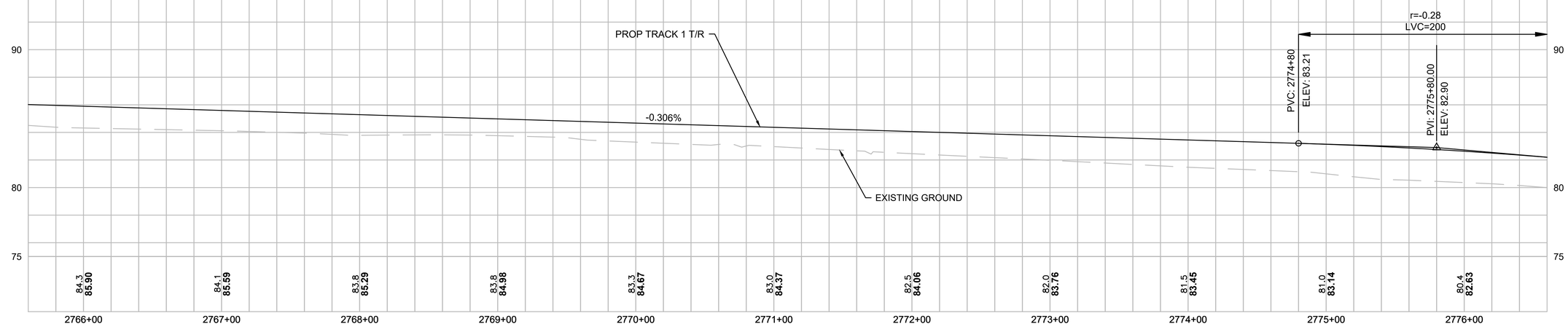
PLAN NO.
SHEET TK-3076
ISSUE

FILE NAME: \\VHBPROJBOSTON\12815.00 SCR PM & CMCAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI2).DWG

Plotted on: June 6, 2018 10:10 AM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
BF_NBS(3)	
PERM BANK	440 LF
LAND UNDER WATER	2083 SF
TEMP LAND UNDER WATER	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2765+60 TO STA. 2776+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

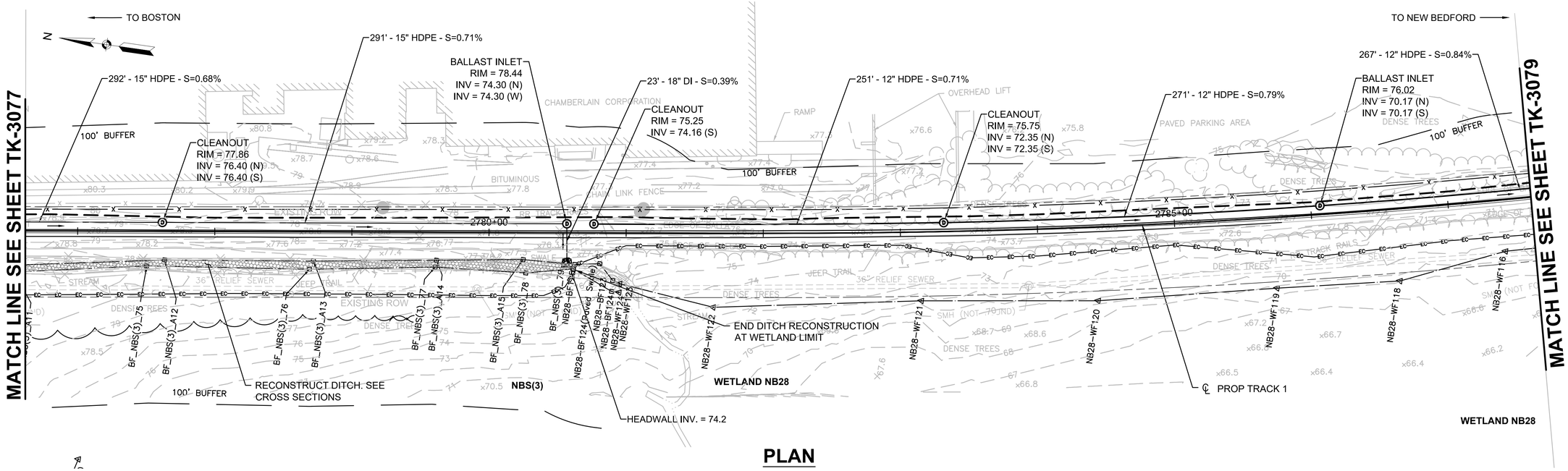
DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.
SHEET TK-3077

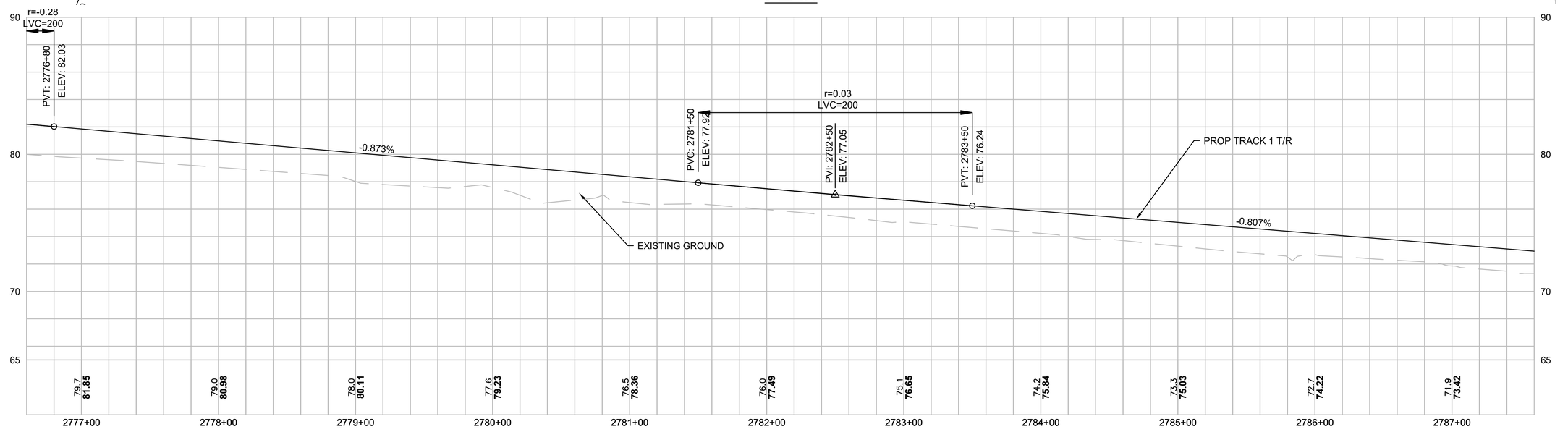
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI2).DWG

Plotted on: June 6, 2018 10:11 AM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB28	
PERMANENT	0 SF
TEMPORARY	0 SF

BANK & LAND UNDER WATER IMPACT (THIS SHEET)	
NBS(3)	
PERM BANK	404 LF
LAND UNDER WATER	2221 SF
TEMP LAND UNDER WATER	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2776+60 TO STA. 2787+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

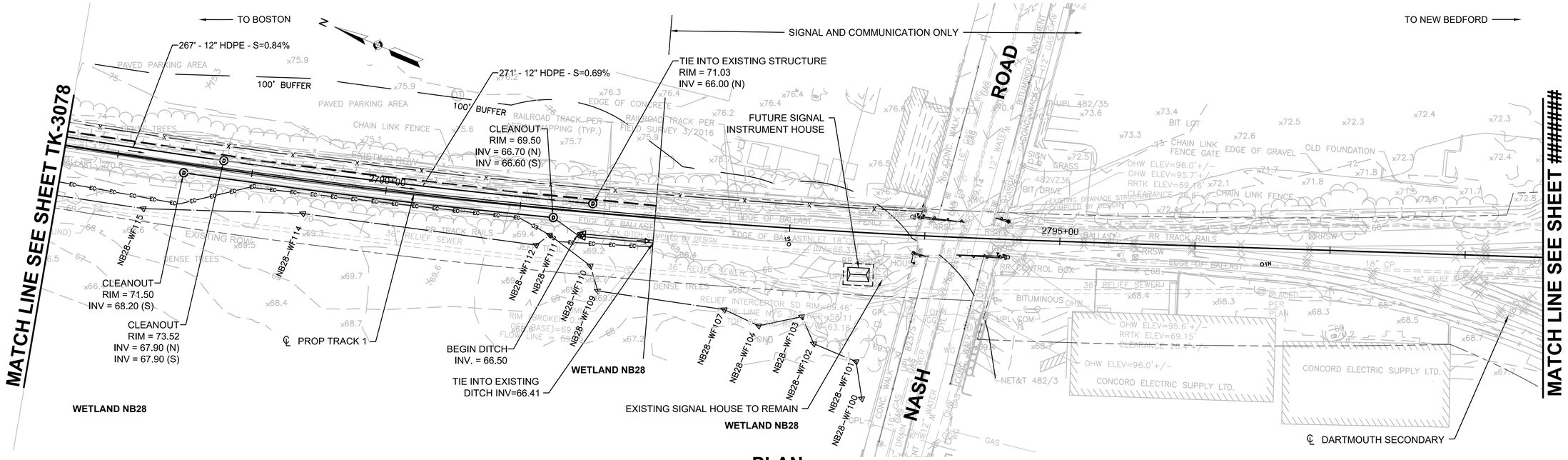
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

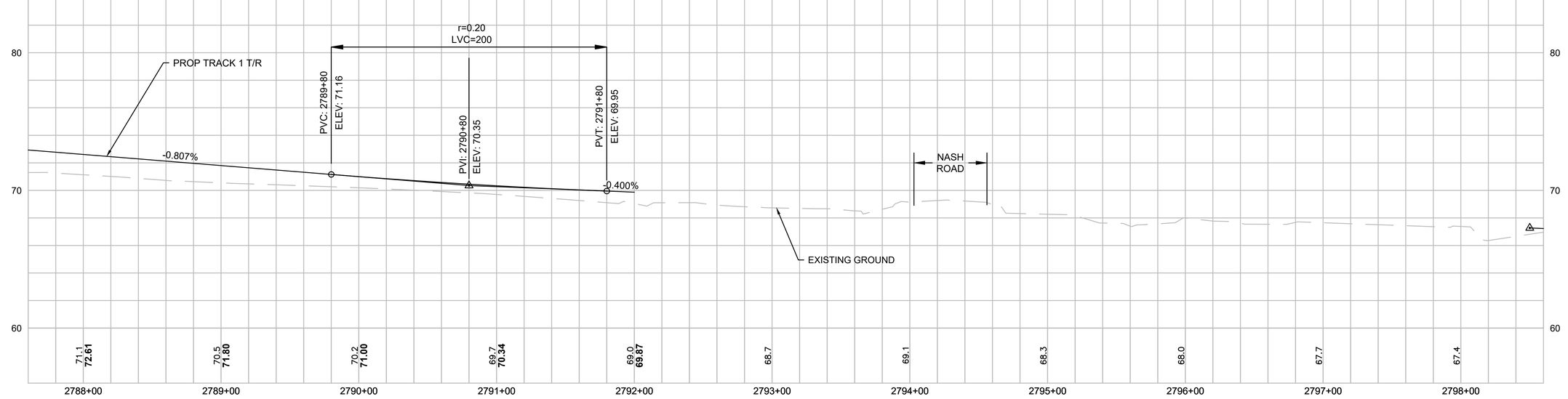
PLAN NO.
SHEET TK-3078
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NO\ NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NO)(2).DWG

Plotted on: June 6, 2018 10:17 AM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

WETLAND IMPACT (THIS SHEET)	
NB28	
PERMANENT	0 SF
TEMPORARY	0 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2787+60 TO STA. 2798+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

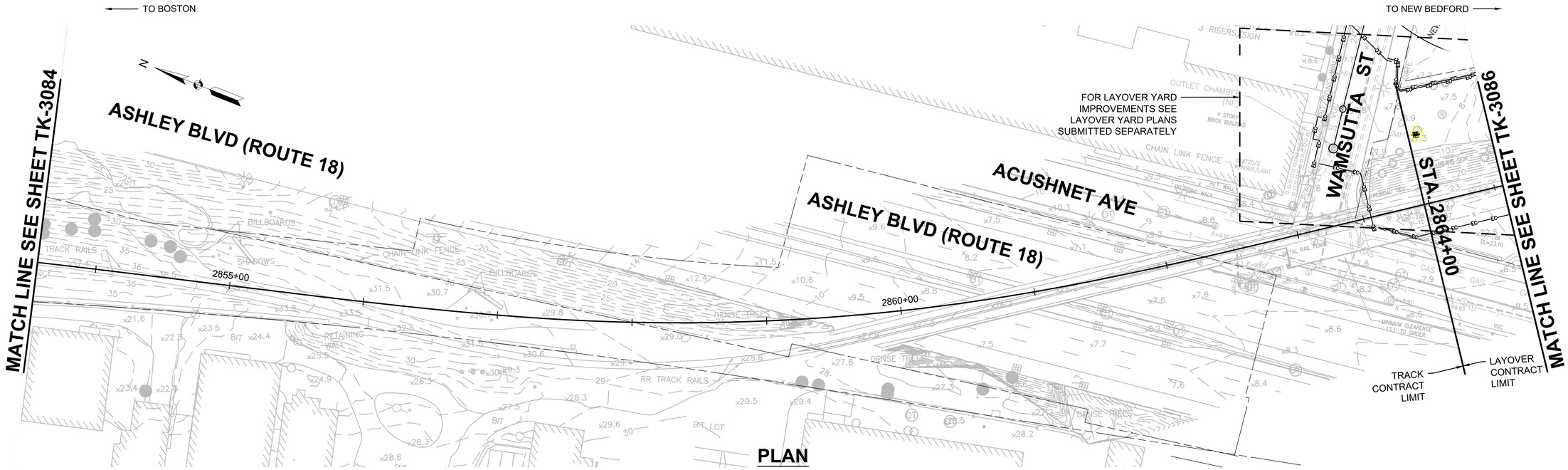
PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

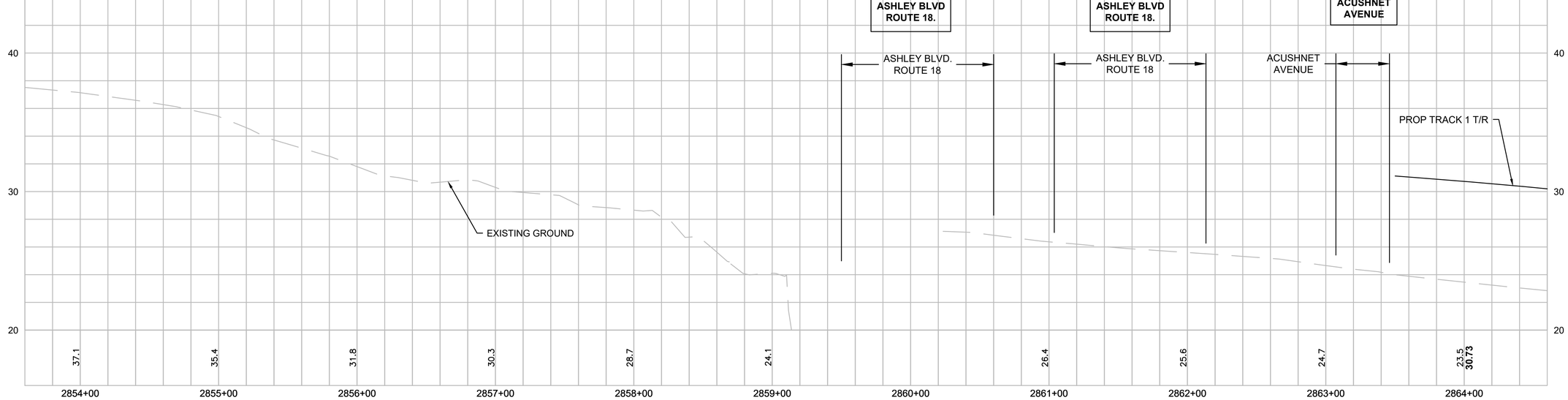
PLAN NO.
SHEET TK-3079
ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CMCAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI2).DWG

Plotted on: June 6, 2018 10:18 AM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2853+60 TO STA. 2864+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.
SHEET TK-3085
ISSUE

Plotted on June 4, 2018 1:16 PM

FILE NAME: \\VHBPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI3).DWG

TO BOSTON

TO NEW BEDFORD

MATCH LINE SEE SHEET TK-3085

MATCH LINE SEE SHEET TK-3087

100' BUFFER

LIMIT OF CONSERVATION COMMISSION COMMENTS

CONC. HEADWALL

(2) 42"D

RR TRACK RAILS

2865+00

2870+00

TS 2866+78.81

SC 2868+20.81

CS 2872+32.01

ST 2873+56.01

PI 2875+00

PROP TRACK 1

PROP YARD TRACK 6

PROP YARD TRACK 5

PROP YARD TRACK 4

PROP YARD TRACK 3

PROP YARD TRACK 2

PROP DITCH

PROP SIGNAL INSTRUMENT HOUSE

PROP SIDING 6

CB RIM = 13.35

PT 40.86

PT +36.36

PT +47.86

PT +01.33

PC +01.46

3+00

C +63.08

5+00

10+00

14.5

12" HDPE F.E. INV=10.75

BIT LOT

RET. WALL

FENCE

GAS

PLAN

L = 300.00
E = 0.25'
r = -0.23
PVI = 2865+17.00
ELEV = 29.87

PVT: 2866+67
ELEV: 27.73

PROP TRACK 1 T/R

-1.428%

L = 350.00'
E = 0.35'
r = 0.23
PVI = 2872+50.00
ELEV. = 19.40

PVC: 2870+75
ELEV: 21.90

PVT: 2874+25
ELEV: 18.31

PS NO. 20 MAIN LINE TRACK 1

-0.622%

EXISTING GROUND

40
30
20
15

22.5 **29.79**
21.5 **28.63**
20.6 **27.26**
19.7 **25.83**
17.7 **24.40**
16.6 **22.97**
16.1 **21.55**
15.4 **20.30**
15.2 **19.27**
14.5 **18.48**
13.6 **17.84**

2865+00 2866+00 2867+00 2868+00 2869+00 2870+00 2871+00 2872+00 2873+00 2874+00 2875+00

PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

HOR. SCALE IN FEET
40 0 40 80
VER. SCALE IN FEET
4 0 4 8

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2864+60 TO STA. 2875+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: AS SHOWN	DES. BY	DR. BY	CHK. BY
VERT: AS SHOWN	ADZ	RRD	KJC
DATE: 06/01/2018			

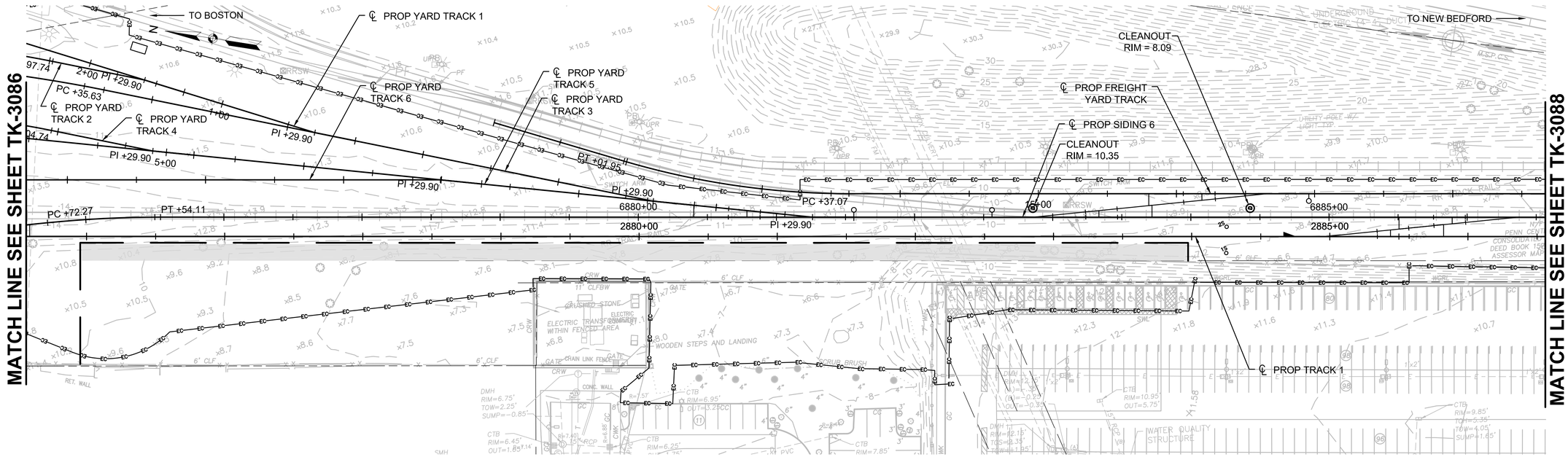
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SHEET TK-3086

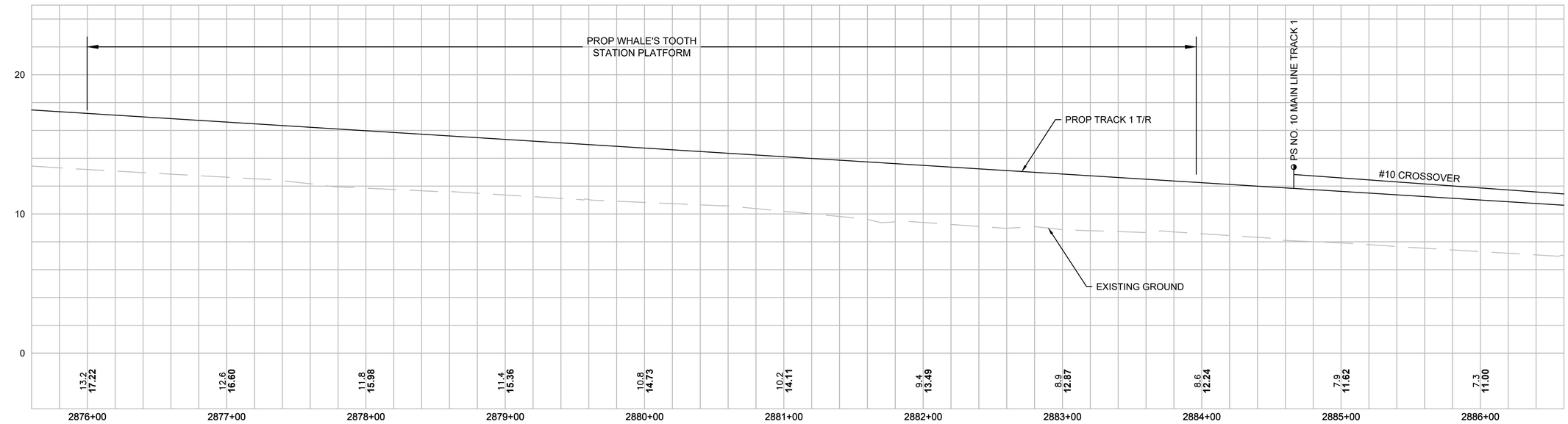
ISSUE

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Plotted on June 4, 2018 1:17 PM



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2875+60 TO STA. 2886+60

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

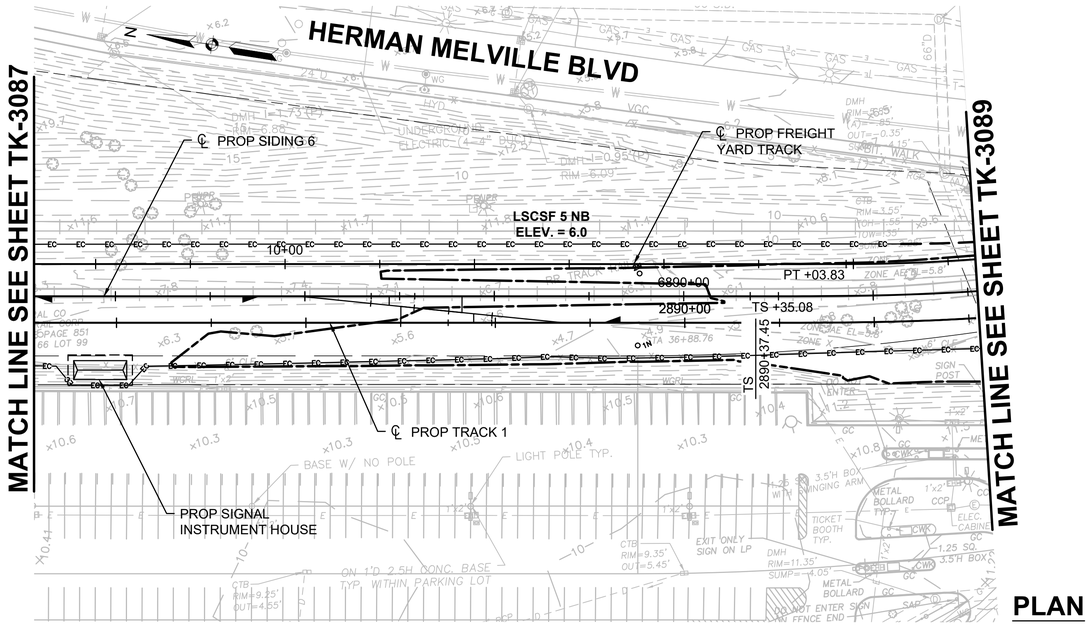
PLAN NO.
SHEET TK-3087
ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(NEWBEDFORD_NOI3).DWG

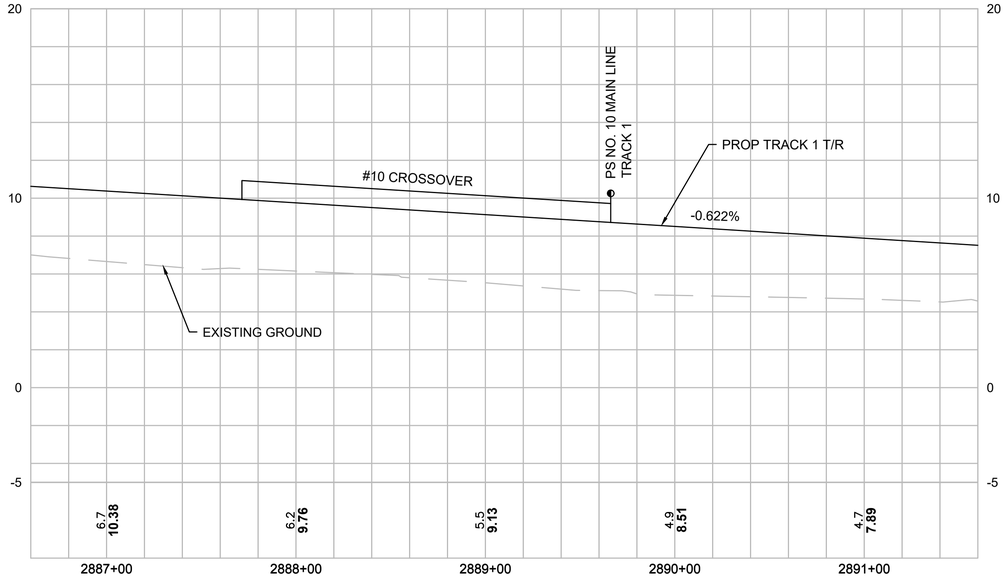
Plotted on: June 4, 2018 1:18 PM

TO BOSTON

TO NEW BEDFORD



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

LAND SUBJECT TO COASTAL STORM FLOWAGE	
5NB	
TEMPORARY	0 SF
PERMANENT	14415 SF

HOR. SCALE IN FEET
40 0 40 80
VER. SCALE IN FEET
4 0 4 8

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE TRACK PLAN AND PROFILE STA. 2886+60 TO STA. 2891+60

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: AS SHOWN	ADZ	RRD	KJC
VERT: AS SHOWN			
DATE: 06/01/2018			

PLAN NO.

SHEET TK-3088

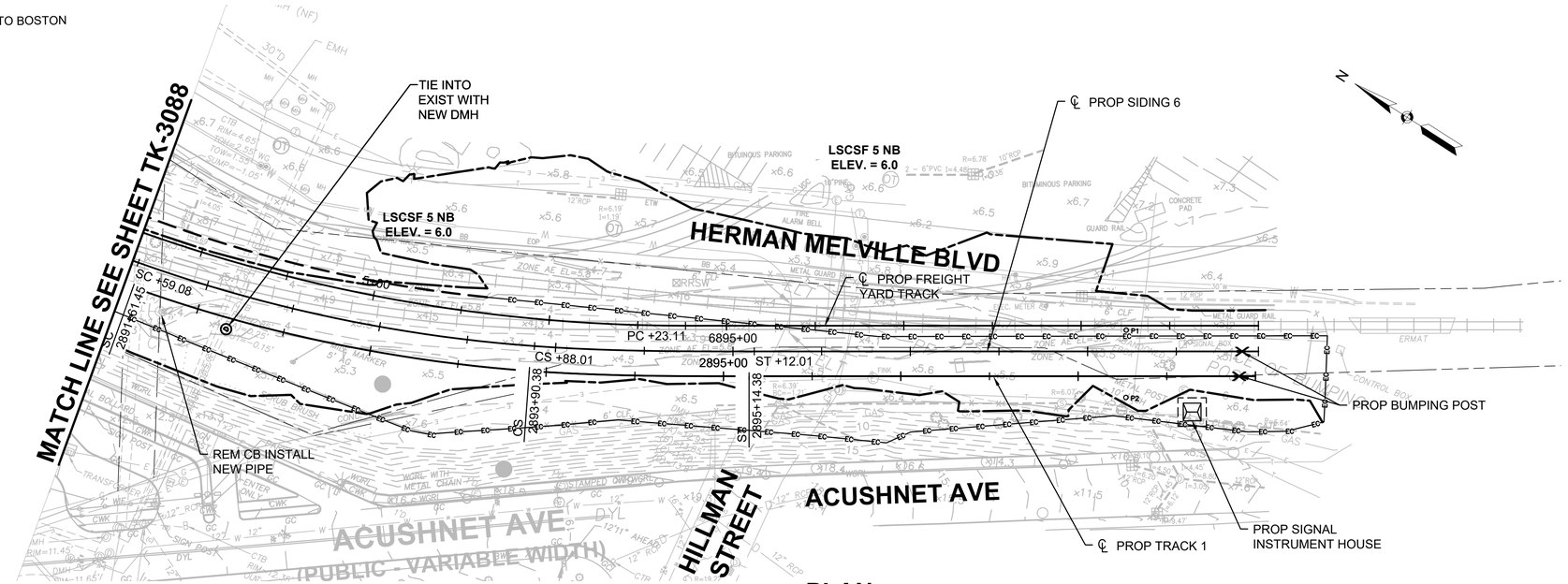
ISSUE

Plotted on: June 4, 2018 - 1:20 PM

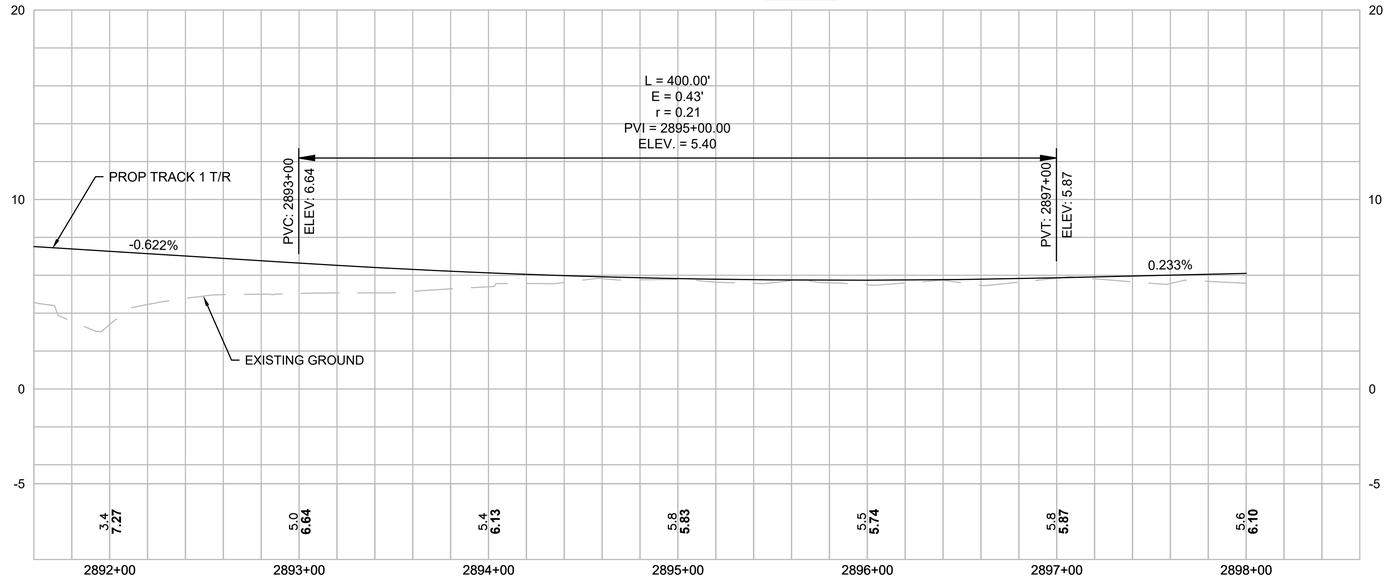
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TO BOSTON

TO NEW BEDFORD



PLAN



PROFILE

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- 6' HIGH CHAIN LINK FENCE
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- BORDERING VEGETATED WETLAND
- FLOOD PLAIN
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- COASTAL BANK
- PERMANENT BVW IMPACT
- TEMPORARY BVW IMPACT
- PERMANENT LUW IMPACT
- TEMPORARY LUW IMPACT
- BLSF IMPACT
- TEMPORARY BLSF IMPACT

LAND SUBJECT TO COASTAL STORM FLOWAGE	
5NB	
TEMPORARY	0 SF
PERMANENT	28200 SF

HOR. SCALE IN FEET
40 0 40 80
4 0 4 8
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
TRACK PLAN AND PROFILE
STA. 2891+60 TO STA. 2898+00

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: AS SHOWN
VERT: AS SHOWN
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

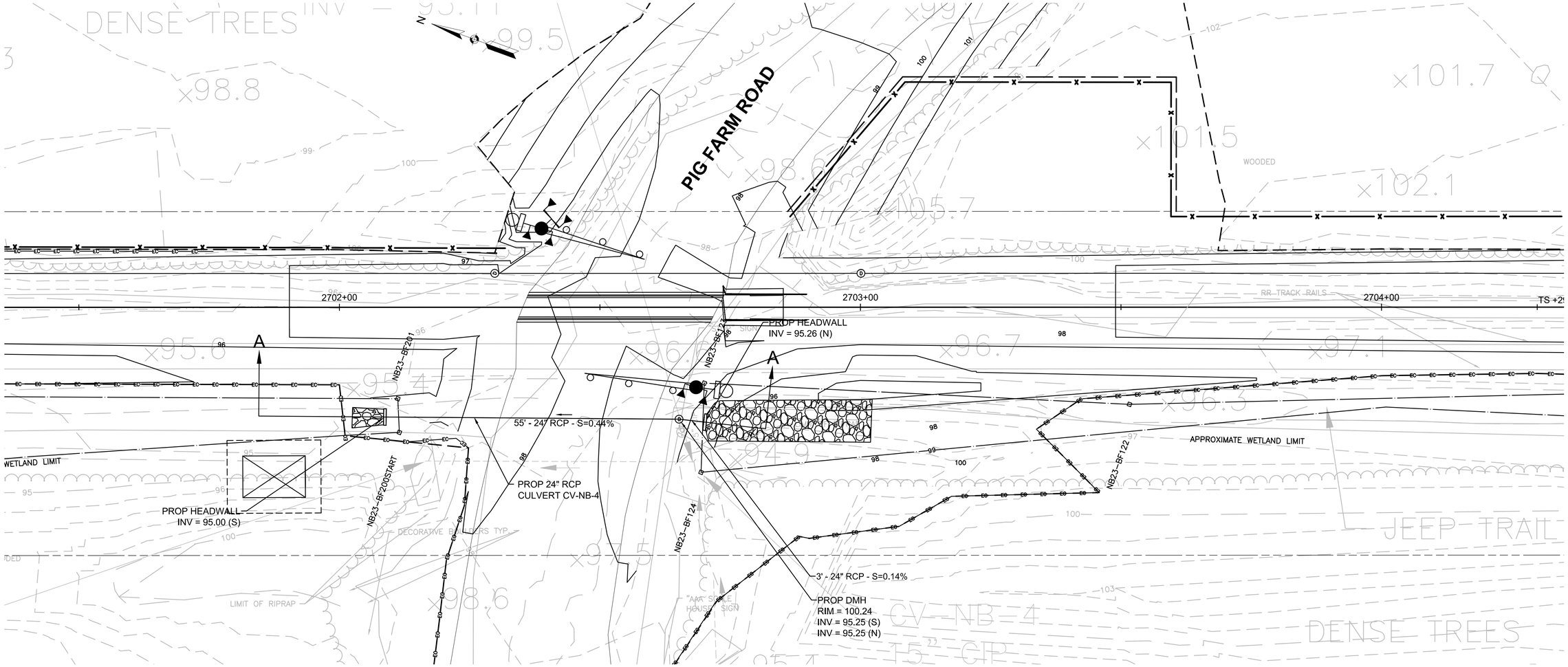
PLAN NO.
SHEET TK-3089
ISSUE

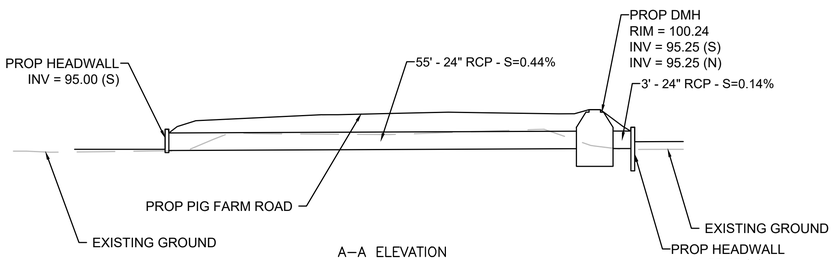
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Plotted on: June 4, 2018 1:21 PM

FILE NAME: \\VHBIPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TD(NB_PIGFARMCULVERT).DWG

Plotted on: June 4, 2018 1:28 PM





A–A ELEVATION

NOTE:
FOR IMPACT QUANTITIES REFER TO TK (TRACK PLANS).

LEGEND & SYMBOLS

- RIGHT OF WAY
- LIMIT OF GRADING
- EROSION CONTROL / LIMIT OF WORK
- PERMANENT EASEMENT
- VEGETATED WETLAND
- BLSF
- BANK
- RIVERFRONT AREA
- 100' BUFFER ZONE
- EDGE OF CHANNEL
- PERMANENT VW IMPACT
- TEMPORARY VW IMPACT
- PERMANENT WW IMPACT
- TEMPORARY WW IMPACT

NOTE:
CV-NB-4 IS NOT INCLUDED IN THE STORMWATER REPORT AND IS SHOWN HERE FOR CLARITY AND DESIGN PURPOSES ONLY.

HOR. SCALE IN FEET
10 0 10 20
10 0 10 20
VER. SCALE IN FEET

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CULVERT PLAN AND PROFILE
CV-NB-4

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

SHEET TD-301

ISSUE

N

WETLAND NB13
(200 SERIES)

WETLAND NB15

BARNET BLVD

SAMUEL

PROP LOAM AND SEED

PROP LIMIT OF GRADING

PROP EROSION CONTROL APPROX LIMIT OF WORK

RETAIN CULVERT

APPROX 25' RIVERFRONT AREA

SAWCUT AT LIMIT OF PAVING

TAPER EOP

PROP 5.5' CEM CONC SW

PERENNIAL STREAM

R&R SIGN

R&R UPL

CL PROP TRACK 1

EXIST ROW (TYP)

PROP 6' CLF

CLEAR TREES

PROP RUBBER RAIL SEAL GRADE CROSSING

PROP GATE WITH FLASHERS

PROP GATE WITH CANTILEVER AND FLASHERS

R&D GATE

PROP SIGNAL HOUSE

PROP BARRIER GATE

PROP FLASHER

PROP DITCH

100' BUFFER

PROP HMA DWY APRON

PROP HMA DWY

SAWCUT AT LIMIT OF PAVING

PROP 5.5' CEM CONC SW AT DWY

PROP LIMIT OF GRADING APPROX LIMIT OF WORK

PROP EOP (TYP)

C SAMUEL BARNET BLVD

HOR. SCALE IN FEET
20 0 20 40

NOTES:

1. ALL EXISTING TRACK AND SIGNAL EQUIPMENT TO BE REMOVED.
2. ALL SIGNS SHALL BE REMOVED AND RESET IN PLACE UNLESS OTHERWISE NOTED.
3. ALL LIGHTS AND UTILITIES SHALL BE RETAINED UNLESS OTHERWISE NOTED.
4. FOR TRACK DRAINAGE INFORMATION INCLUDING INVERT ELEVATIONS, SEE TRACK PLANS.
5. ALL PROPOSED CURB SHALL BE NEW VERTICAL GRANITE CURB.

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
SAMUEL BARNET ROAD
CONSTRUCTION PLAN

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date

PROJECT MANAGER Date

HORIZ: 1" = 20'	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

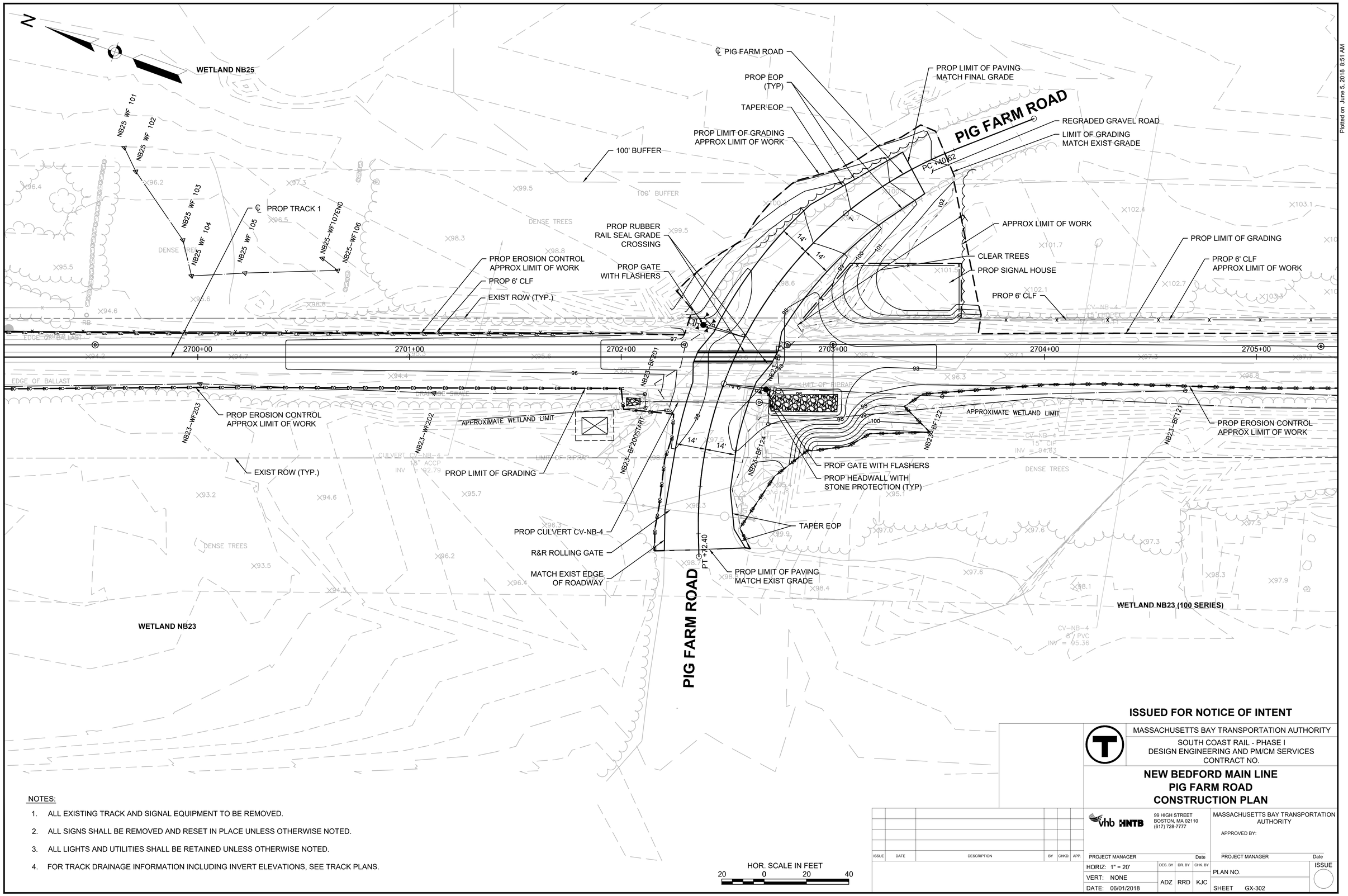
PLAN NO.

SHEET GX-301

ISSUE

Plotted on: June 5, 2018 8:49 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_GX(SAMUEL_BARNET).DWG



NOTES:

1. ALL EXISTING TRACK AND SIGNAL EQUIPMENT TO BE REMOVED.
2. ALL SIGNS SHALL BE REMOVED AND RESET IN PLACE UNLESS OTHERWISE NOTED.
3. ALL LIGHTS AND UTILITIES SHALL BE RETAINED UNLESS OTHERWISE NOTED.
4. FOR TRACK DRAINAGE INFORMATION INCLUDING INVERT ELEVATIONS, SEE TRACK PLANS.

HOR. SCALE IN FEET
20 0 20 40

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
PIG FARM ROAD
CONSTRUCTION PLAN

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

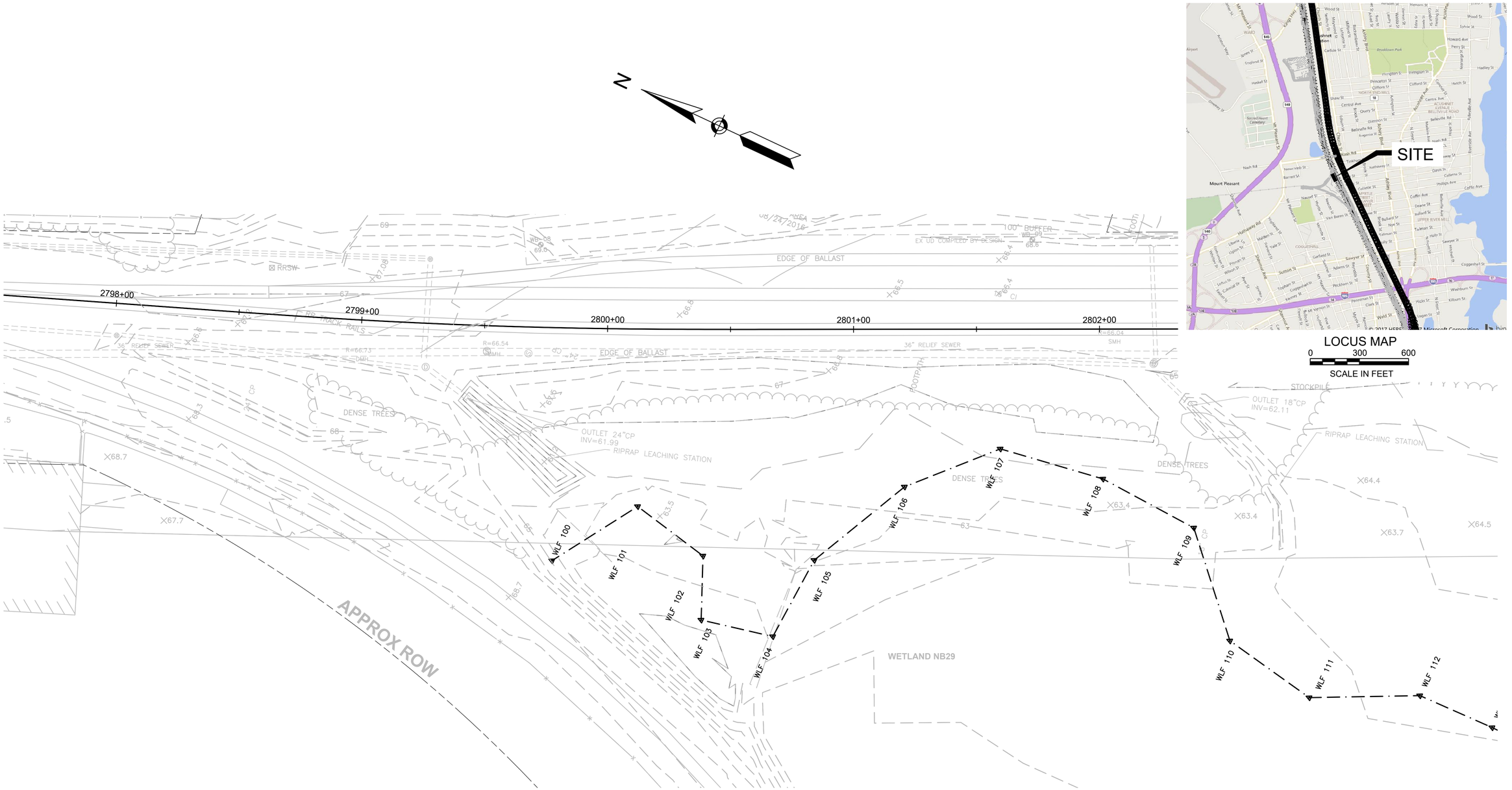
PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

HORIZ: 1" = 20'	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: NONE	ADZ	RRD	KJC		
DATE: 06/01/2018				SHEET GX-302	

Plotted on: June 5, 2018 8:51 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_GX(PIG_FARM).DWG



ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WETLAND MITIGATION
EXISTING CONDITIONS

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

PROJECT MANAGER Date

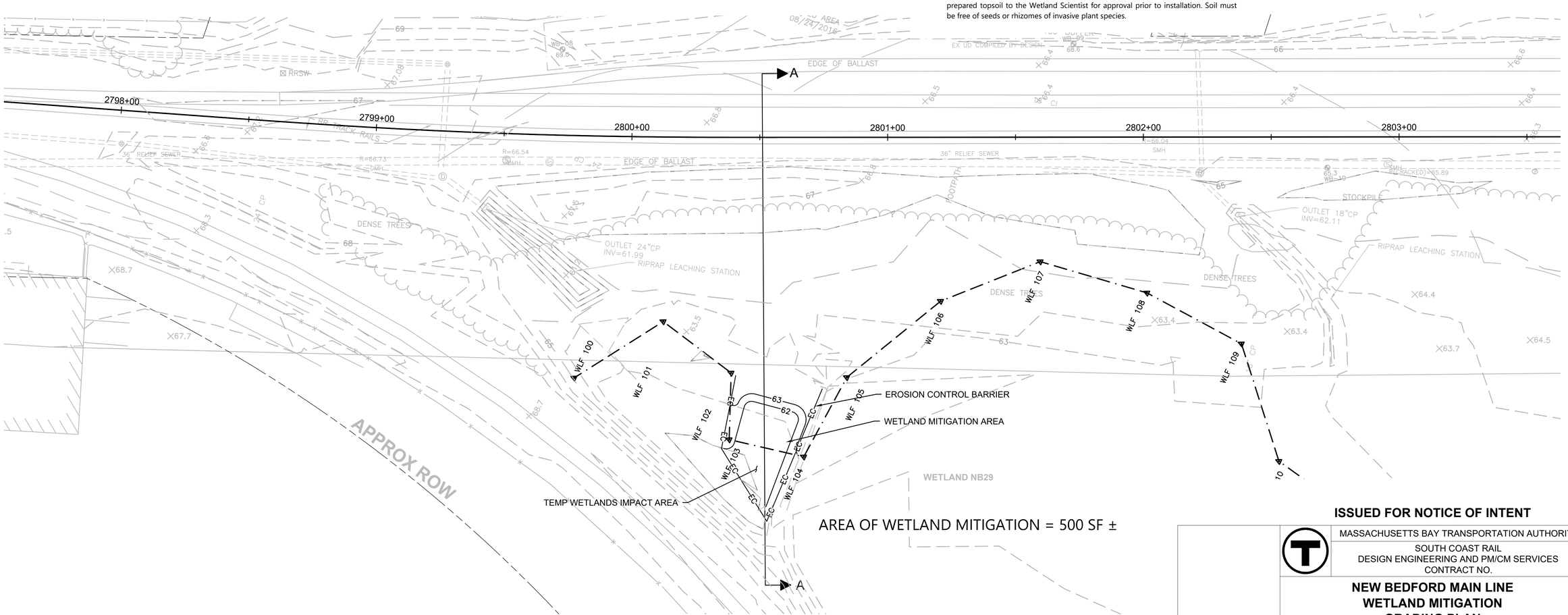
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VERT: AS NOTED	WHH	WHH	LHC		
DATE: 06/01/2018				SHEET EV-301	

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\NOI DARTMOUTH WYE MITIGATION\SEGMENT3_EV(DARTMOUTH-WYE_WET-MIT-STA2801).DWG

Plotted on June 4, 2018 1:35 PM

Grading and Erosion Control Notes

- Before construction begins, an erosion control barrier will be erected around the entire proposed wetland replacement site, except the upgradient edge to allow machinery access to the site. The erosion control barrier prevents erosion of disturbed soils and sedimentation into the adjacent existing wetland areas.
- Contractor shall inspect and maintain erosion control measures on a weekly basis and within 24 hours of each storm event.
- No sediment or silt shall be discharged to the wetland at any time.
- No dewatering is permitted unless the Contractor prepares a dewatering plan that includes pumping water to an upland site with adequate siltation controls, and that plan is approved by the Conservation Commission.
- The Wetland Scientist shall inspect the wetland mitigation site at the following points during the earthwork phase of the project:
  - Following the installation of erosion control barriers
  - Following excavation to subgrade
  - Following soils placement
- The wetland establishment site will be cleared and grubbed, and will be excavated to a depth of 12 inches below the final design elevation. Contractor is responsible for providing spot grades to confirm excavation depths. In response to subsurface hydrologic conditions, the supervising wetland scientist may make minor modifications to the rough grading plan in the field. The supervising wetland scientist will inspect the sub-grade of the wetland establishment site to ensure that wetland hydrology has been established.
- Manufactured hydric soil shall be placed within the wetland mitigation site after grading to subgrade has been approved. Soils used for wetland establishment sites will be created with soil amendments. Wetland soils are created from a mixture of organic and mineral materials, with the final product containing at least 12 percent organic matter content by weight. The Contractor must provide analysis of the prepared topsoil to the Wetland Scientist for approval prior to installation. Soil must be free of seeds or rhizomes of invasive plant species.
- No soil used for creation of wetland soils will be taken from any area supporting invasive species. The project will not translocate or reuse potentially contaminated wetland soils from areas adjacent to the existing railroad.
- The wetland establishment site will then be backfilled with wetland soils that have either been translocated or created. Once the final topsoil is in place, it will be graded to achieve a topography to match the existing adjacent wetland, or to achieve topography of the target wetland cover type. A slight hummock/hollow microtopography simulates a natural substrate. Low spots will be created within the wetland establishment site to provide temporary ponding of surface waters.
- Rocks and boulders uncovered during the excavation may be left in place, provided they do not result in a large decrease in the plantable area of the wetland establishment site. If possible, rocks and boulders will be repositioned to provide crevices and cavities suitable for wildlife use.
- Fallen logs and other woody debris will be distributed in the wetland establishment site to provide beneficial habitat features for wildlife. Woody material will be distributed to cover approximately 2 percent of the site's surface area. Logs and woody debris will be of various sizes and in various degrees of decomposition.
- After work with heavy machinery is completed, an erosion control barrier will be erected along the upgradient edge of the wetland establishment site.
- Upon completion of construction and establishment of permanent vegetation, as approved by the Wetland Scientist and the Conservation Commission, Contractor shall remove and dispose of erosion control measures.
- Contractor shall submit an as-built grading plan that confirms to the design grading plan prior to plantings.



ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WETLAND MITIGATION
GRADING PLAN

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date | PROJECT MANAGER Date

HORIZ: AS NOTED	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: AS NOTED	WHH	WHH	LHC		
DATE: 06/01/2018				SHEET EV-302	

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVINOI NEW BEDFORD\NOI DARTMOUTH WYE MITIGATION\SEGMENT3_EV(DARTMOUTH-WYE_WET-MIT-STA2801).DWG
Plotted on June 4, 2018 1:36 PM

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	*Ilex verticillata*	3	2-3 ft ht
	Highbush blueberry	*Vaccinium corymbosum*	2	2-3 ft ht
	Sweet pepperbush	*Clethra alnifolia*	2	2-3 ft ht

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

Upland Seed Mix shall include only species on this list.

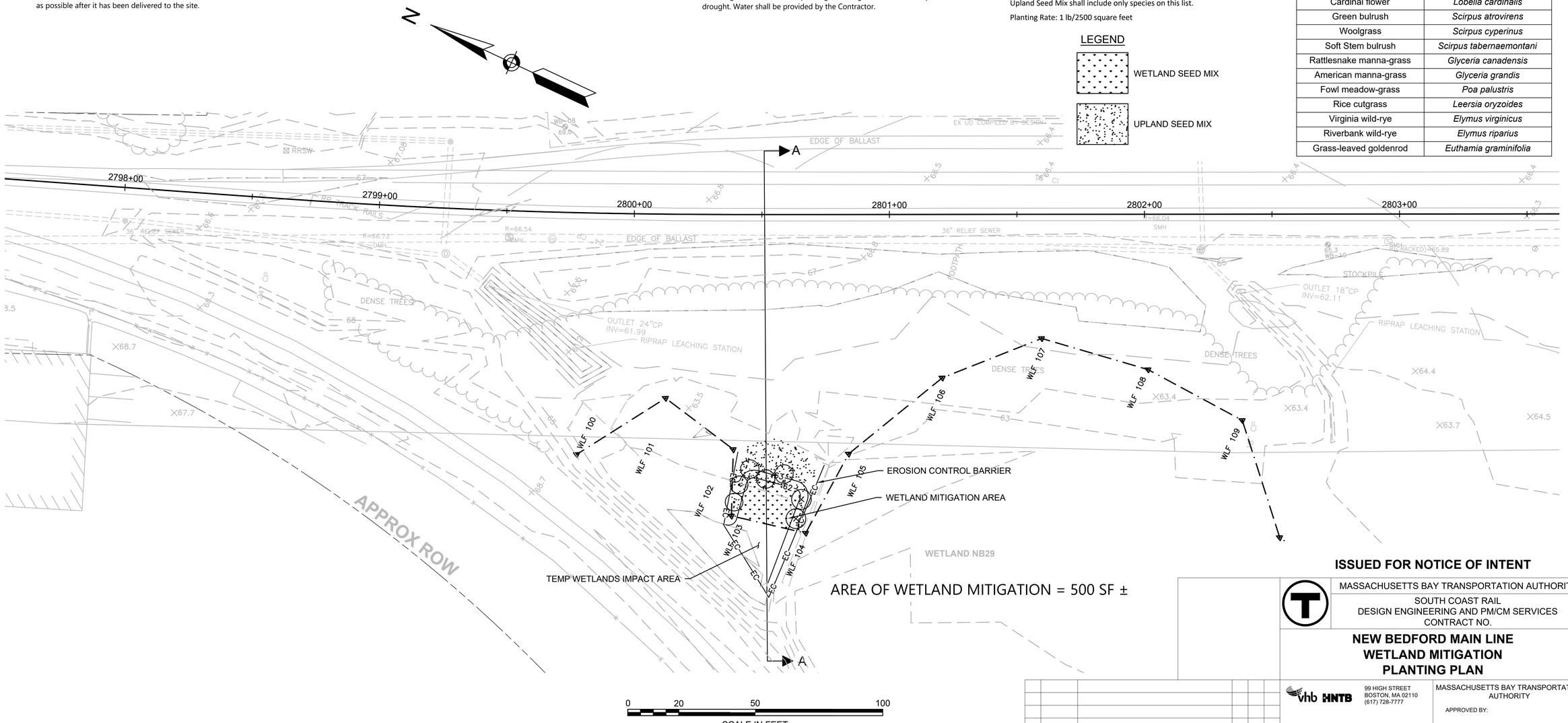
Planting Rate: 1 lb/2500 square feet

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

LEGEND

WETLAND SEED MIX

UPLAND SEED MIX



ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WETLAND MITIGATION
PLANTING PLAN

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

PROJECT MANAGER Date

HORIZ: AS NOTED	DES. BY	DR. BY	CHK. BY
VERT: AS NOTED	WHH	WHH	LHC
DATE: 06/01/2018			

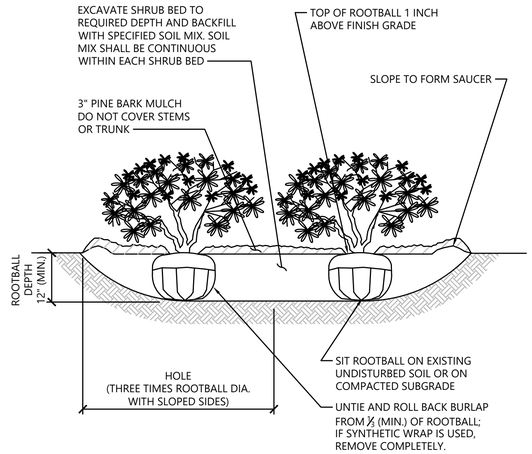
PLAN NO.

SHEET EV-303

ISSUE

Plotted on: June 4, 2018 1:36 PM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\NOI DARTMOUTH WYE MITIGATION\SEGMENT3_EV(DARTMOUTH-WYE_WET-MIT-STA2801).DWG



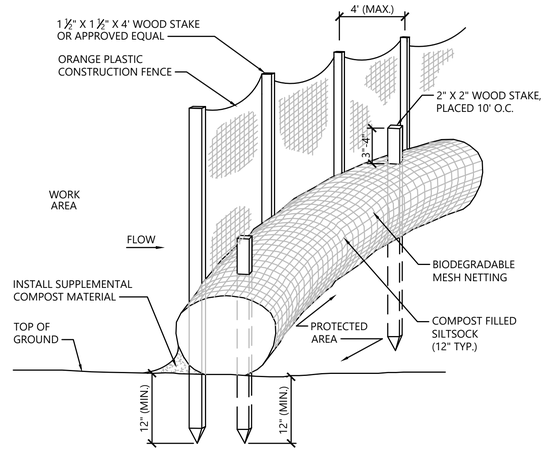
NOTES

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

Shrub Bed Planting

1/16

N.T.S. | Source: VHB | REV | LD_601



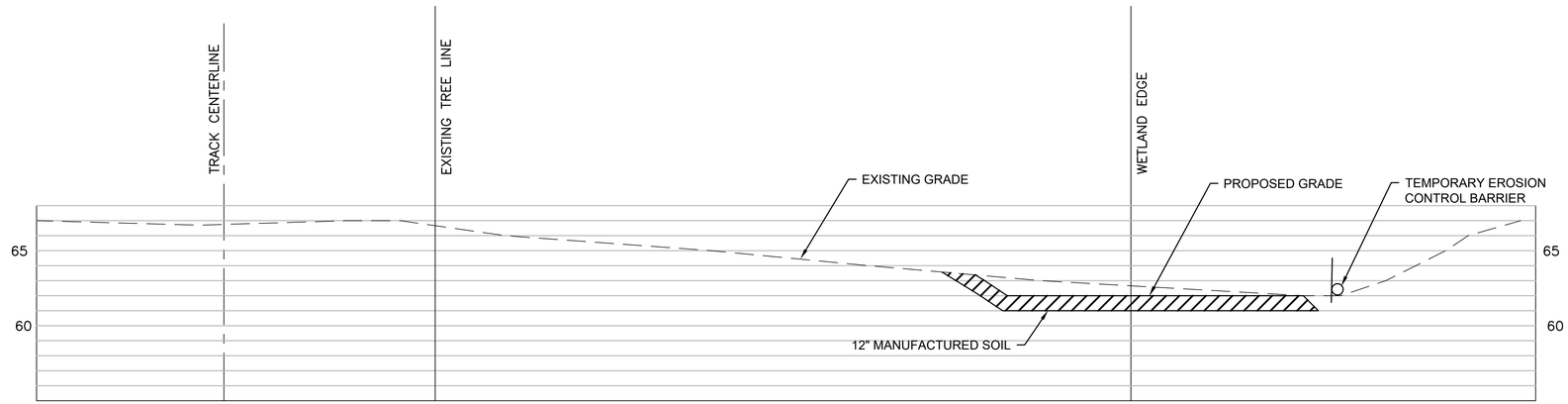
NOTES

1. SILTSOCK SHALL BE FILTREXX SILTSOXX, OR APPROVED EQUAL.
2. SILTSOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
3. SILTSOCK 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.

Erosion Control

1/16

N.T.S | Source: VHB | LD_658-A



Cross Section A-A

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

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE WETLAND MITIGATION DETAILS AND CROSS SECTION

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: AS NOTED	DES. BY	DR. BY	CHK. BY
VERT: AS NOTED	LHC	WHH	LHC
DATE: 06/01/2018			

PLAN NO.

SHEET EV-304

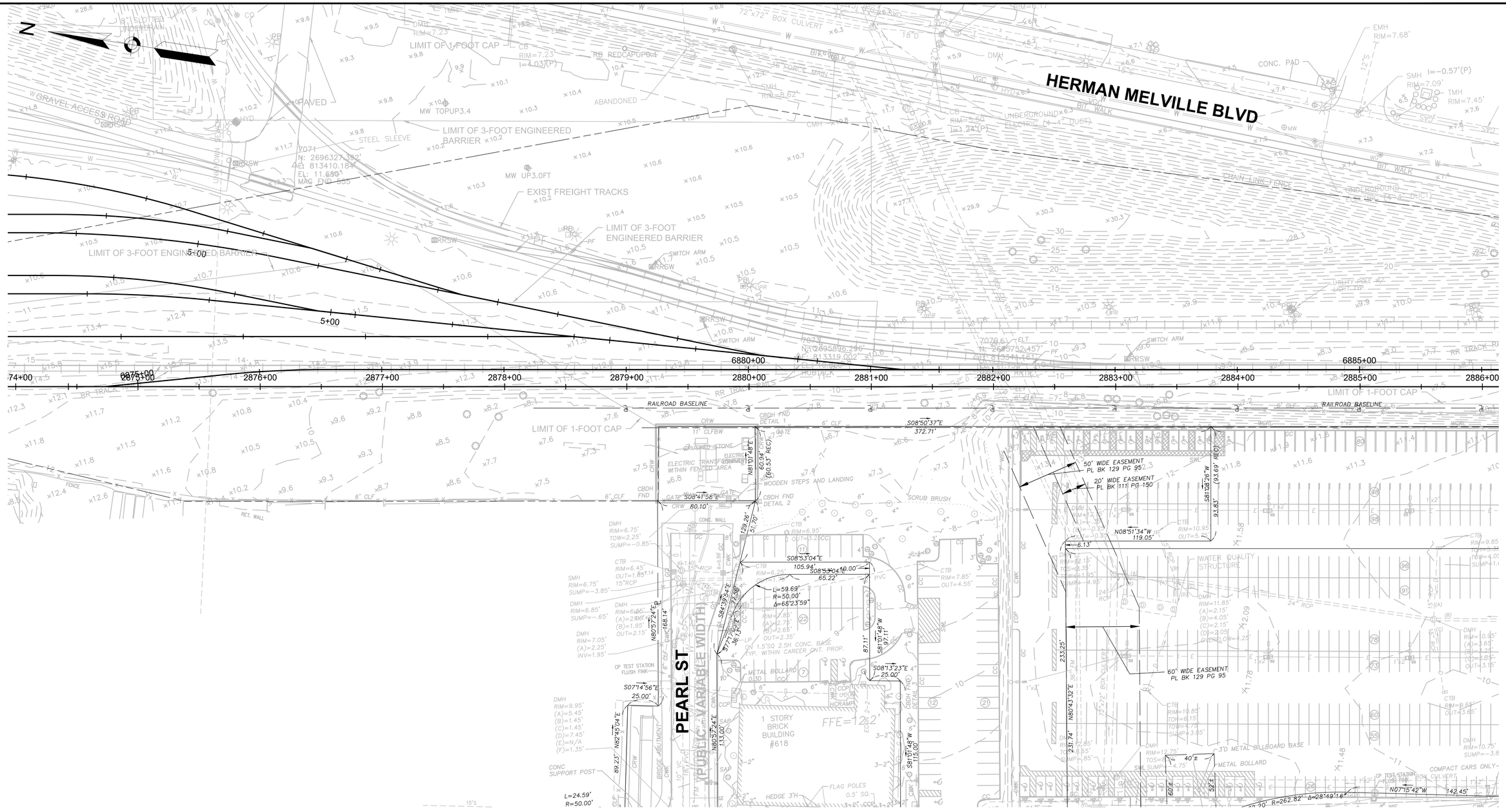
ISSUE

Plotted on: June 4, 2018 1:36 PM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\NOI DARTMOUTH WYE MITIGATION\SEGMENT3_EV(DARTMOUTH-WYE_WET-MIT-STA2801).DWG

SheetNumber

Plotted on: June 4, 2018 1:40 PM



LEGEND & SYMBOLS

- PROPERTY LINE
- RIGHT OF WAY
- WETLAND
- BANK
- CL STREAM
- BLSF/LSCSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

NOTE:

1. TRACK CENTERLINE SHOWN FOR INFORMATION ONLY.

0 40 100 160

SCALE: 1" = 40'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WHALE'S TOOTH STATION
EXISTING CONDITIONS PLAN

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 40'	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.

SHEET SV-319

ISSUE

FILE NAME: \\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\3DWG\EVNOI NEW BEDFORD\SEGMENT3_EV(SV_WHALESTOOTH).DWG

Plotted on: June 4, 2018 1:41 PM

HERMAN MELVILLE BLVD

LIMIT OF 3-FOOT ENGINEERED BARRIER

EXIST FREIGHT TRACKS

LIMIT OF 1-FOOT CAP

REMOVE EXISTING FENCING

CLEAR EXISTING VEGETATION

TREE PROTECTION FENCE

SAWCUT EXISTING PAVEMENT AND REMOVE ALL FENCING, GUARDRAIL, CURBING, AND SIGNAGE. PROVIDE TEMPORARY EROSION CONTROL DURING PAVEMENT WORK.

PROP CONSTRUCTION ENTRANCE/EXIT

EROSION CONTROL/ LIMIT OF WORK LINE (TYP)

PROP SILTSACK SEDIMENT TRAPS

PROP SILTSACK SEDIMENT TRAP

CONTRACTOR TO PROVIDE TEMPORARY EROSION CONTROL MEASURES DURING PIPE INSTALLATION

PEARL ST (PUBLIC, VARIABLE WIDTH)

1 STORY BRICK BUILDING #618 FFE=12.2'

WATER QUALITY STRUCTURE

ISSUED FOR NOTICE OF INTENT

LEGEND & SYMBOLS

- PROPERTY LINE
- RIGHT OF WAY
- WETLAND
- BANK
- CL STREAM
- BLSF/LSCSF
- 25' / 200' RIVERFRONT AREA
- 100' BUFFER
- TREE
- CONTOUR MINOR
- CONTOUR MAJOR

NOTE:

1. TRACK CENTERLINE SHOWN FOR INFORMATION ONLY.
2. SEE TRACK PLANS FOR ADDITIONAL EROSION CONTROL MEASURES.

N

0 40 100 160

SCALE: 1" = 40'

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WHALE'S TOOTH STATION
SITE PREPARATION PLAN

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

PROJECT MANAGER Date

HORIZ: 1" = 40'
VERT: NONE
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	RRD	KJC

PLAN NO.

SHEET SP-301

ISSUE

FILE NAME: \\VHBPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_EV(SP_WHALESTOOTH).DWG

Plotted on: June 5, 2018 8:53 AM

LIMIT OF EXIST 3-FOOT ENGINEERED BARRIER

LIMIT OF EXIST 1-FOOT CAP

LIMIT OF EXIST 3-FOOT ENGINEERED BARRIER

PROP WHALE'S TOOTH TRANSITION PLAZA

℄ PROP LAYOVER LEAD

LIMIT OF EXIST 3-FOOT ENGINEERED BARRIER

℄ PROP LAYOVER LEAD

SEE NOTE 1

5+00

SEE NOTE 1

6880+00

2880+00

SEDIMENT FOREBAY 1

LIMIT OF EXIST 1-FOOT CAP

SEE NOTE 1

6885+00

2885+00

PROP CLF

PROP WHALE'S TOOTH STATION PLATFORM

PROP SLOPED WALKWAY

LIMIT OF EXIST 1-FOOT CAP BEGIN REM EXIST CLF

PROP BIORETENTION BASIN 1

SAND STORAGE BIN

PROP RET WALL

LIMIT OF EXIST 1-FOOT CAP

END REM EXIST CLF

PROP BIORETENTION BASIN 2

PROP SEDIMENT FOREBAY 2

℄ PROP TRACK 1

PROP SIGNAL INSTRUMENT HOUSE

PROP LIMIT OF GRADING/EROSION CONTROL (TYP)

PROP BIKE STORAGE STRUCTURE

RET EXIST CLF

ACCESSIBLE CURB RAMP TYPE A

PROP LIMIT OF GRADING/EROSION CONTROL (TYP)

PROPOSED LIMIT OF COMMUTER RAIL PARKING - 350 PARKING SPACES

PEARL ST (PUBLIC - VARIABLE WIDTH)

ACUSHNET AVE (PUBLIC - VARIABLE WIDTH)

1 STORY BRICK BUILDING #618

CONC SUPPORT POST

BUS STOP SHELTER

METAL BOLLARD

HEDGE 3'H

CP TEST STATION FLUSH FINK

NOTE:

1. WORK SHOWN FOR CLARITY. REFER TO 30% TRACK PLANS FOR DETAILS.

0 40 100 160

SCALE: 1" = 40'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WHALE'S TOOTH STATION
SITE PLAN

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

PROJECT MANAGER Date

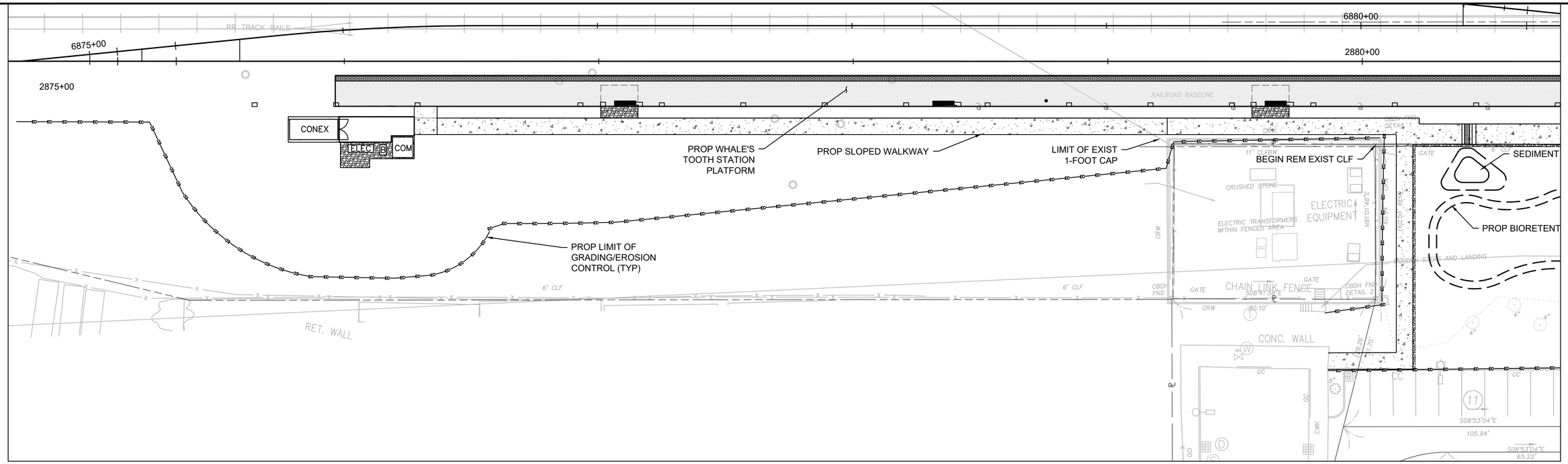
HORIZ: 1" = 40'	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	SMK	KJC
DATE: 06/01/2018			

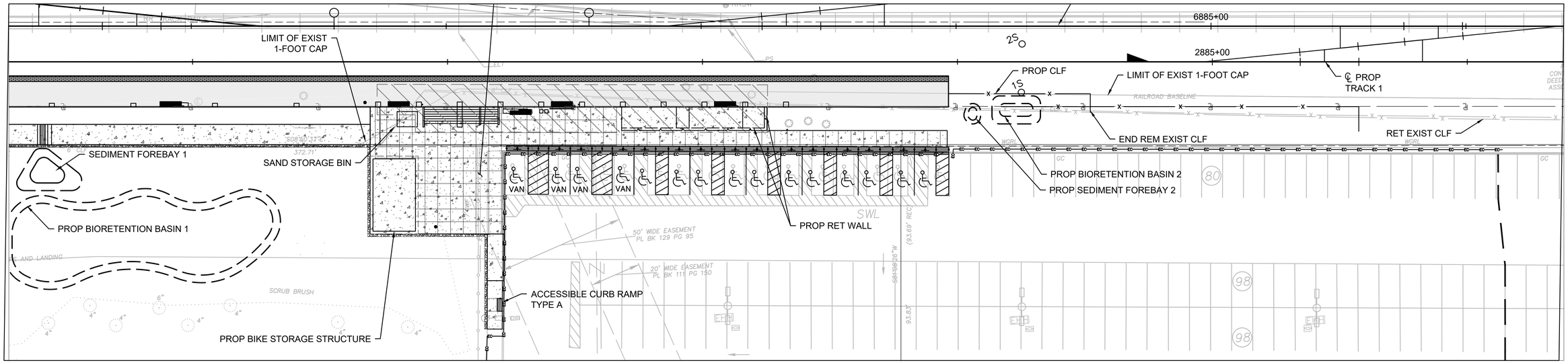
PLAN NO.

SHEET LO-300

ISSUE

FILE NAME: I:\VHBPROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVINOI NEW BEDFORD\SEGMENT3_EV(LO_WHALESTOOTH).DWG





NOTE:

1. WORK SHOWN FOR CLARITY. REFER TO 30% TRACK PLANS FOR DETAILS.

N

0 20 50 100

SCALE: 1" = 20'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WHALE'S TOOTH STATION
SITE PLAN

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 40'	DES. BY	DR. BY	CHK. BY
VERT: NONE	ADZ	SMK	KJC
DATE: 06/01/2018			

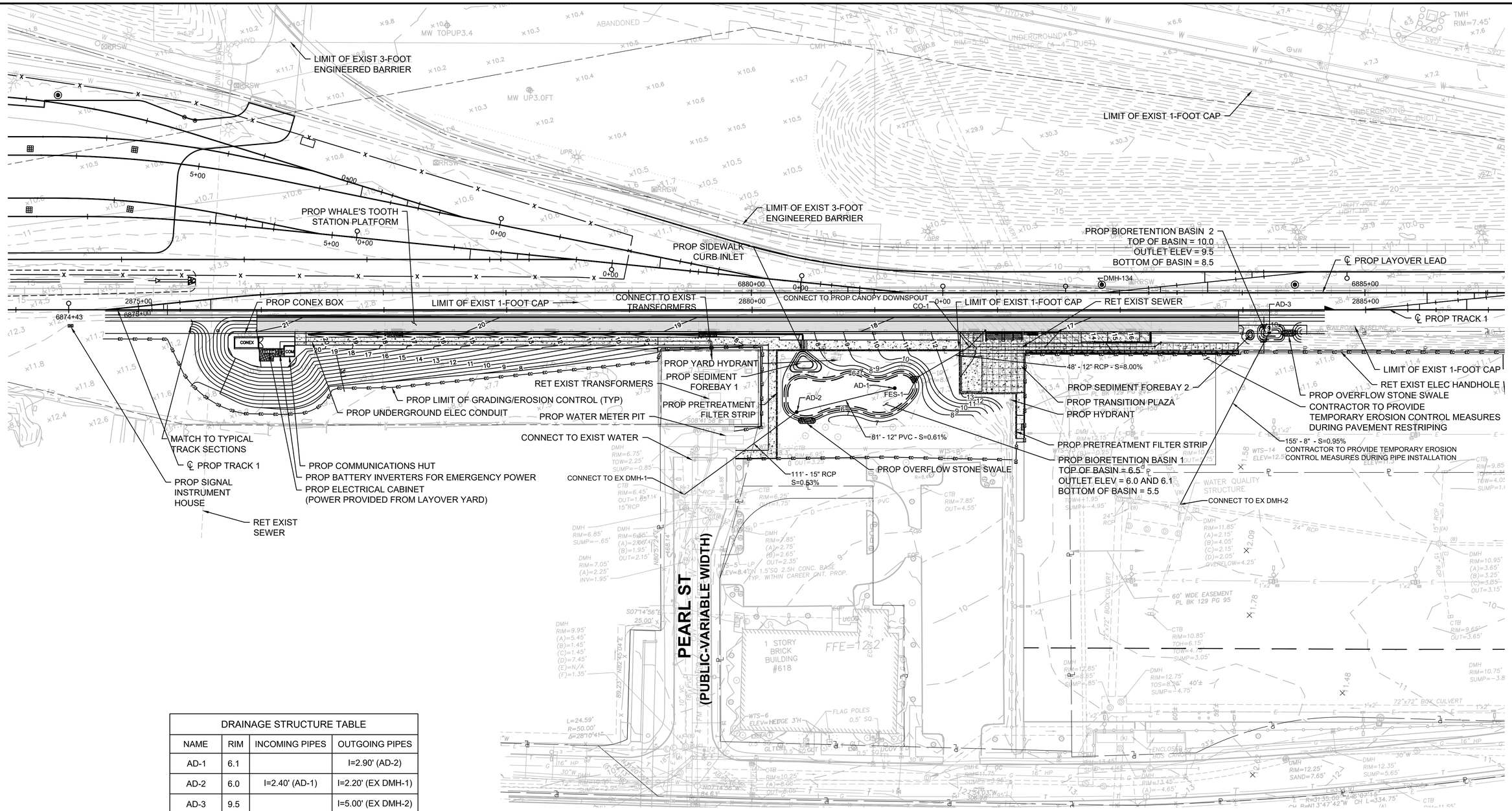
PLAN NO.

SHEET LO-301

ISSUE

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(LO_WHALESTOOTH).DWG

Plotted on: June 5, 2018 8:54 AM



DRAINAGE STRUCTURE TABLE			
NAME	RIM	INCOMING PIPES	OUTGOING PIPES
AD-1	6.1		I=2.90' (AD-2)
AD-2	6.0	I=2.40' (AD-1)	I=2.20' (EX DMH-1)
AD-3	9.5		I=5.00' (EX DMH-2)
EX DMH-1	6.8	I=1.60' (AD-2)	
EX DMH-2	11.8	I=3.50' (AD-3)	
FES-1	8.2	I=7.00' (CO-1)	

100 YEAR FLOOD ELEVATION - 6.0
500 YEAR FLOOD ELEVATION - 15.2

NOTES:

1. TRACK CENTERLINE SHOWN FOR INFORMATION ONLY.

N

0 40 100 160

SCALE: 1" = 40'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WHALE'S TOOTH STATION
GRADING AND UTILITY PLAN

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

PROJECT MANAGER Date

HORIZ: 1"=40'	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: NONE	ADZ	SMK	KJC		
DATE: 06/01/2018				SHEET GD-300	

Plotted on: June 5, 2018 8:55 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_EV(GD_WHALESTOOTH).DWG

Plotted on: June 5, 2018 8:56 AM

PROP WHALE'S TOOTH STATION PLATFORM
LIMIT OF EXIST 1-FOOT CAP
CONNECT TO EXIST TRANSFORMERS
2880+00
6880+00
0+00
2875+00
6875+00
℄ PROP TRACK 1
PLATFORM 21.24
PLATFORM 21.06
CONEX
ELEC
COM
PROP SIDEWALK CURB INLET
PROP SEDIMENT FOREBAY 1
PROP PRETREATMENT FILTER STRIP
AD-2
PROP LIMIT OF GRADING/EROSION CONTROL (TYP)
RET EXIST TRANSFORMERS
PROP OVERFLOW STONE SWALE
PROP UNDERGROUND ELEC CONDUIT
MATCH LINE SEE BELOW
MATCH TO TYPICAL TRACK SECTIONS
PROP COMMUNICATIONS HUT
PROP BATTERY INVERTERS FOR EMERGENCY POWER
PROP ELECTRICAL CABINET (POWER PROVIDED FROM LAYOVER YARD)
PROP CONEX BOX
PROP WATER METER PIT
CONNECT TO EXIST WATER
RET EXIST SEWER
CONNECT TO EX DMH-1
111' - 15" RCP S=0.53%

CONNECT TO PROP CANOPY DOWNSPOUT CO-1
RANSFORMERS
0+00
LIMIT OF EXIST 1-FOOT CAP
6885+00
℄ PROP LAYOVER LEAD
2885+00
PROP SEDIMENT FOREBAY 2
AD-3
LIMIT OF EXIST 1-FOOT CAP
MATCH LINE SEE ABOVE
PROP YARD HYDRANT
℄ PROP TRACK 1
RET EXIST ELEC HANDHOLE
PROP OVERFLOW STONE SWALE
48' - 12" RCP - S=8.00%
PROP TRANSITION PLAZA
PROP HYDRANT
RET EXIST SEWER
AD-1
FES-1
AD-2
PROP BIORETENTION BASIN 2
TOP OF BASIN = 10.0
OUTLET ELEV = 9.5
BOTTOM OF BASIN = 8.5
CONTRACTOR TO PROVIDE TEMPORARY EROSION CONTROL MEASURES DURING PAVEMENT RESTRIPING
155' - 8" - S=0.95%
CONTRACTOR TO PROVIDE TEMPORARY EROSION CONTROL MEASURES DURING PIPE INSTALLATION
PROP BIORETENTION BASIN 1
TOP OF BASIN = 6.5
OUTLET ELEV = 6.0 AND 6.1
BOTTOM OF BASIN = 5.5
81' - 12" PVC - S=0.61%
PROP PRETREATMENT FILTER STRIP

DRAINAGE STRUCTURE TABLE			
NAME	RIM	INCOMING PIPES	OUTGOING PIPES
AD-1	6.1		I=2.90' (AD-2)
AD-2	6.0	I=2.40' (AD-1)	I=2.20' (EX DMH-1)
AD-3	9.5		I=5.00' (EX DMH-2)
EX DMH-1	6.8	I=1.60' (AD-2)	
EX DMH-2	11.8	I=3.50' (AD-3)	
FES-1	8.2	I=7.00' (CO-1)	

100 YEAR FLOOD ELEVATION - 6.0
500 YEAR FLOOD ELEVATION - 15.2

NOTES:

1. TOP OF BALLAST ELEV. IN YARD = 14.03 (UNLESS OTHERWISE NOTED)
2. TOP OF RAIL ELEV. IN YARD = 14.70 (UNLESS OTHERWISE NOTED)
3. DITCH SIDE SLOPES ARE 2:1, SEE TYPICAL SECTIONS
4. 2:1 SLOPE GRADING BETWEEN ℄ PROP TRACK 1 TYPICAL SECTION AND YARD
5. TRACK CENTERLINE SHOWN FOR INFORMATION ONLY.

N
0 20 50 100
SCALE: 1" = 20'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WHALE'S TOOTH STATION
GRADING AND UTILITY PLAN

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

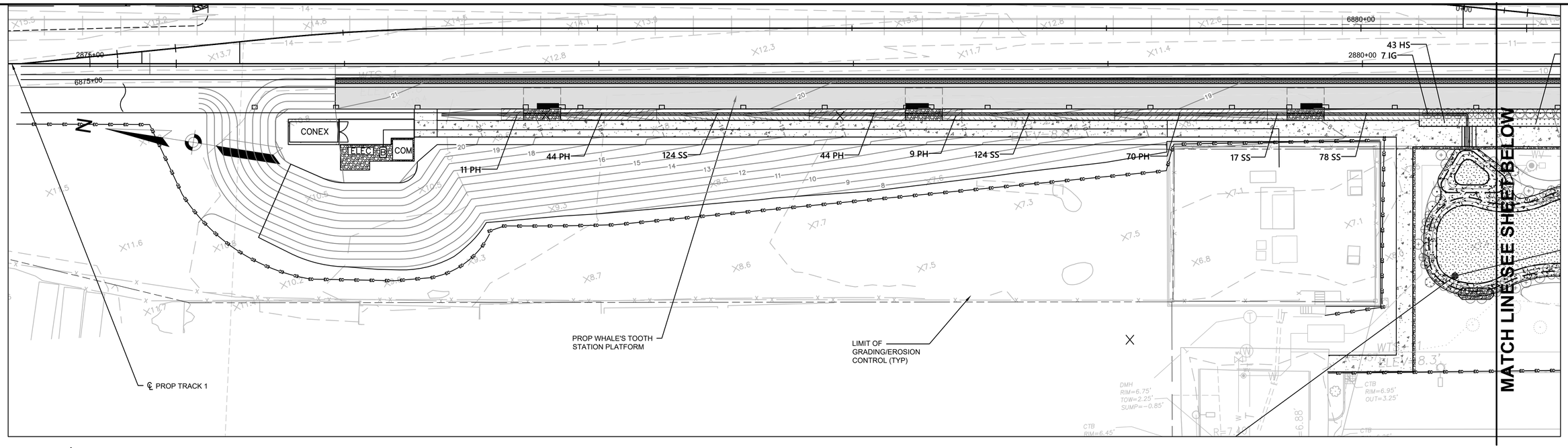
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:
PROJECT MANAGER Date

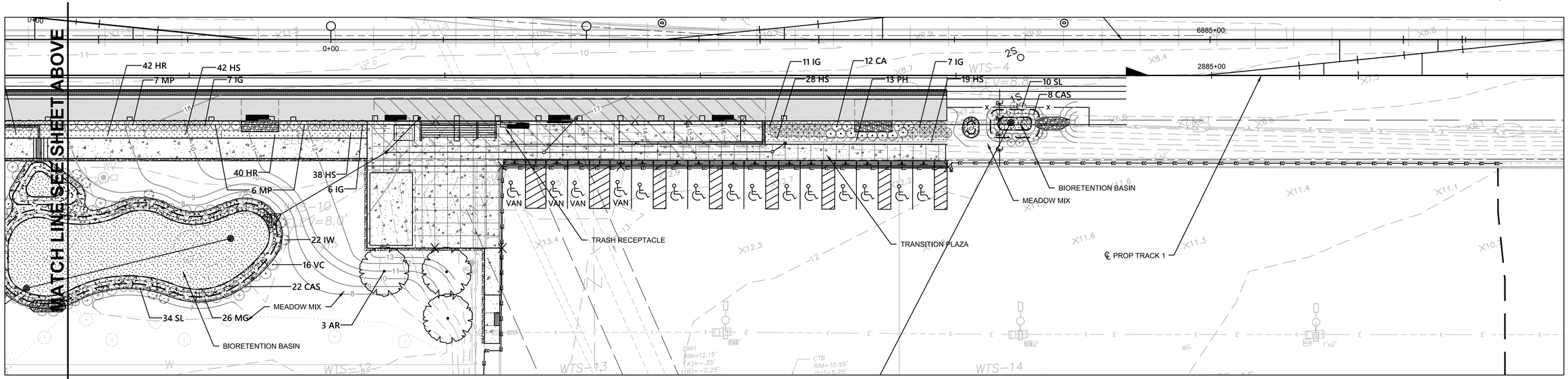
HORIZ: 1"-20'
VERT: NONE
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
ADZ	SMK	KJC

PLAN NO.
ISSUE
SHEET GD-301

FILE NAME: \\VHB\PROJ\BOSTON\12915.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVN\01 NEW BEDFORD\SEGMENT3_EV(GD_WHALESTOOTH).DWG





BIORETENTION AREA

UPLAND SEED MIX

SEED MIXTURES:

1. AREA INDICATED AS BIORETENTION AREA ARE TO BE SEEDED WITH NEW ENGLAND EROSION CONTROL / RESTORATION MIX FOR DETENTION PONDS AND MOIST AREAS, AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC. AMHERST, MA OR APPROVED EQUAL. APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

2. AREAS INDICATED AS MEADOW MIX ARE TO BE SEEDED WITH NEW ENGLAND CONSERVATION / WILDLIFE SEED MIX, AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS, INC, AMHERST MA. APPLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AR	3	Acer rubrum `October Glory`	October Glory Red Maple	2 1/2 - 3" CAL.
SHRUBS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**
CAS	30	Clethra alnifolia	Summersweet Clethra	2 - 3` HT.
CA	12	Clethra alnifolia `Hummingbird`	`Hummingbird` Summersweet	18 - 24" HT.
IG	38	Ilex glabra `Shamrock`	Shamrock Inkberry	2 - 2 1/2` HT.
IW	22	Ilex verticillata	Winterberry	2 - 3` HT.
MG	26	Myrica gale	Sweetgale	12 - 18" HT.
MP	13	Myrica pensylvanica	Northern Bayberry	2 - 2 1/2` HT.
SL	44	Spiraea latifolia	Meadow-Sweet	12 - 18" SPD.
VC	16	Vaccinium corymbosum	Highbush Blueberry	2 - 3` HT.
GRASSES	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**
PH	191	Pennisetum alopecuroides `Hameln`	Hameln Dwarf Fountain Grass	#1 POT
SS	343	Schizachyrium scoparium	Little Bluestem Grass	#1 POT
PERENNIALS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**
HR	82	Hemerocallis x `Rosy Returns`	Rosy Returns Daylily	#1 POT
HS	170	Hemerocallis x `Stella de Oro`	Stella de Oro Daylily	#1 POT

0 20 50 100

SCALE: 1" = 20'

100 YEAR FLOOD ELEVATION - 6.0
500 YEAR FLOOD ELEVATION - 15.2

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
WHALE'S TOOTH STATION
LANDSCAPE PLAN

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 20'
VERT: NONE
DATE: 06/01/2018

DES. BY	DR. BY	CHK. BY
SFD	WHH	KS

PLAN NO.

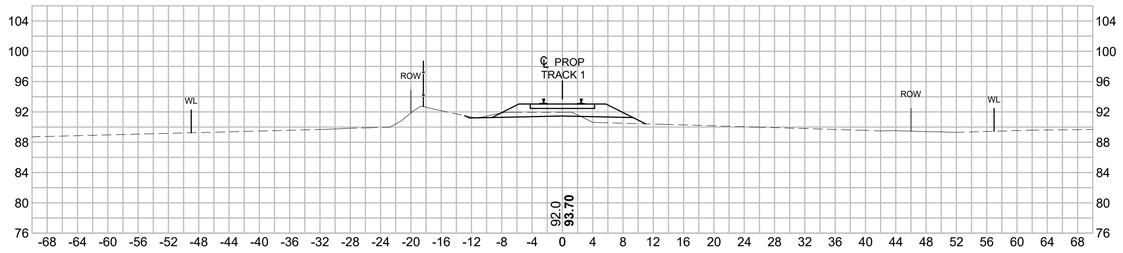
SHEET LD-301

ISSUE

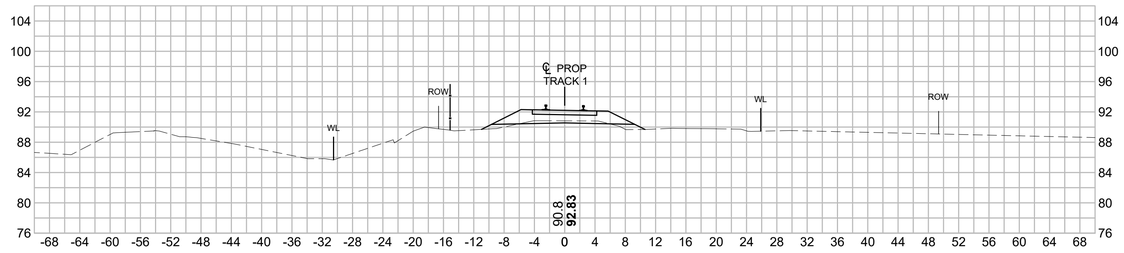
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Plotted on: June 4, 2018 1:49 PM

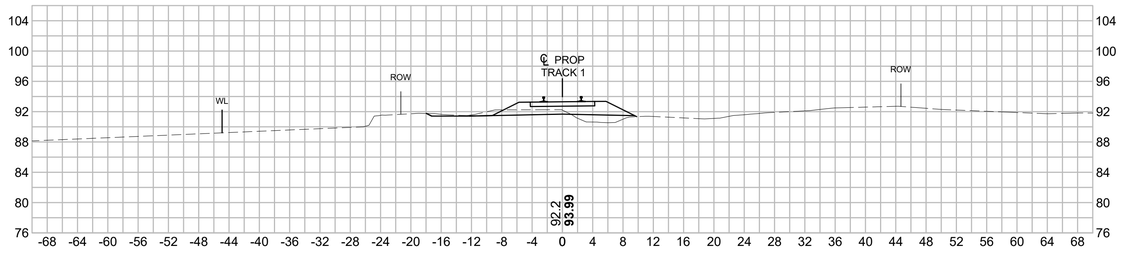
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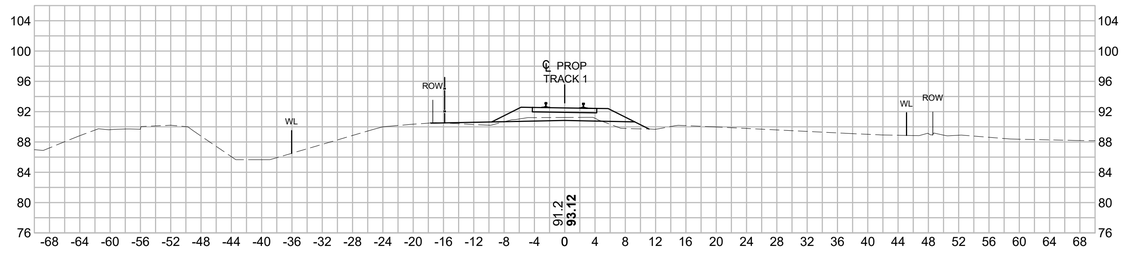
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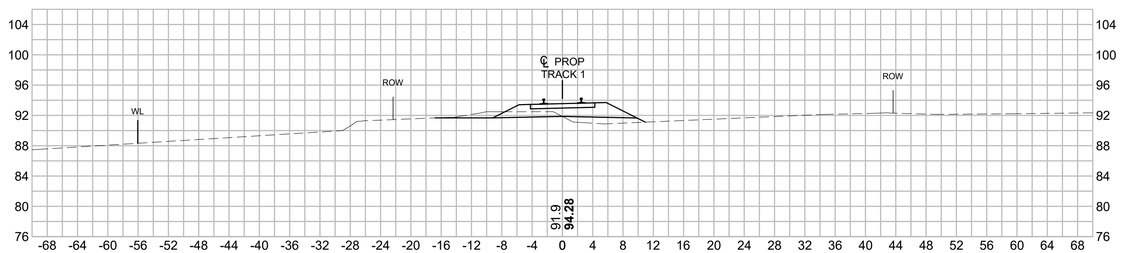
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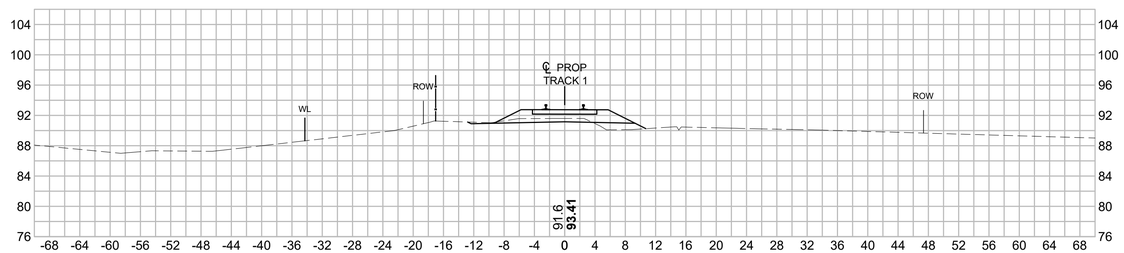
2537+00



2533+00



2536+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 1

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

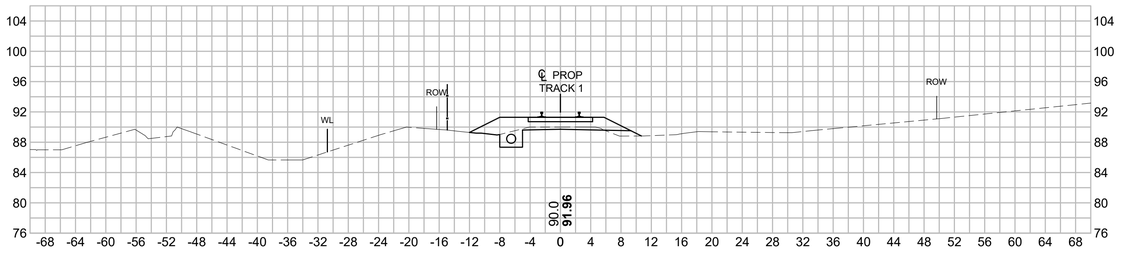
SHEET XS-301

ISSUE

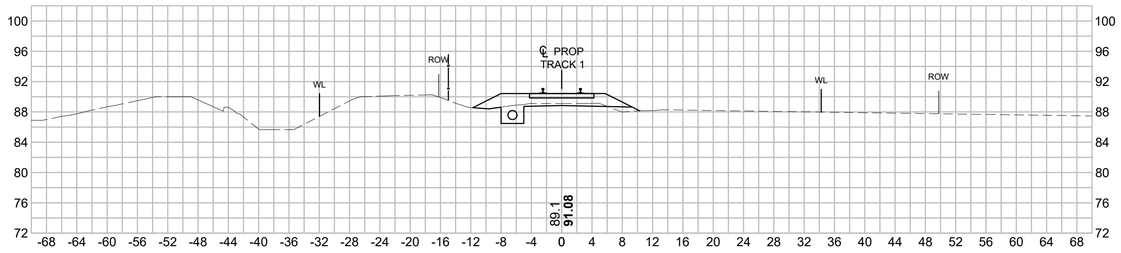
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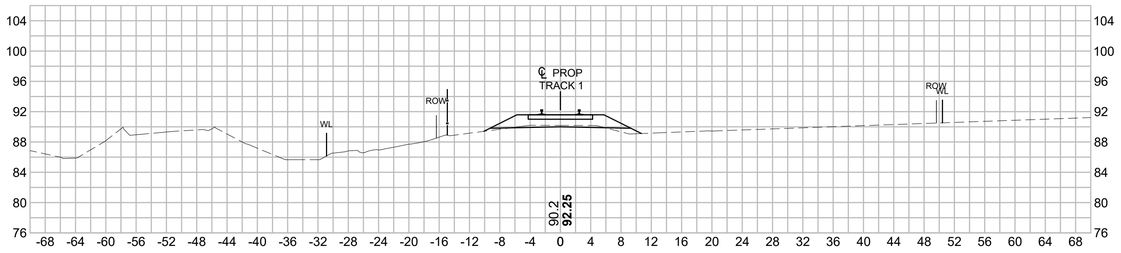
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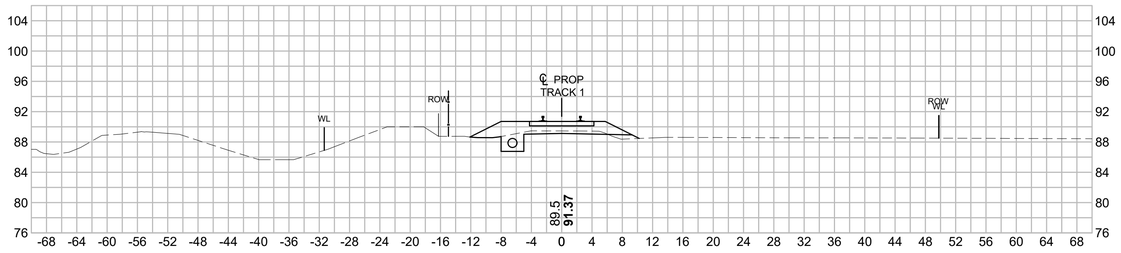
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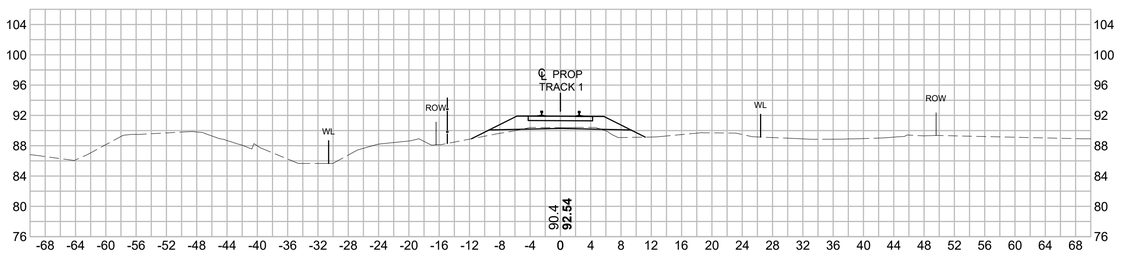
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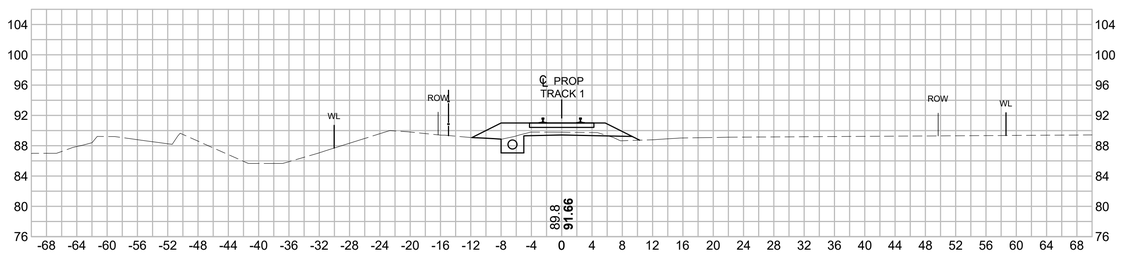
2543+00



2539+00



2542+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 2

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

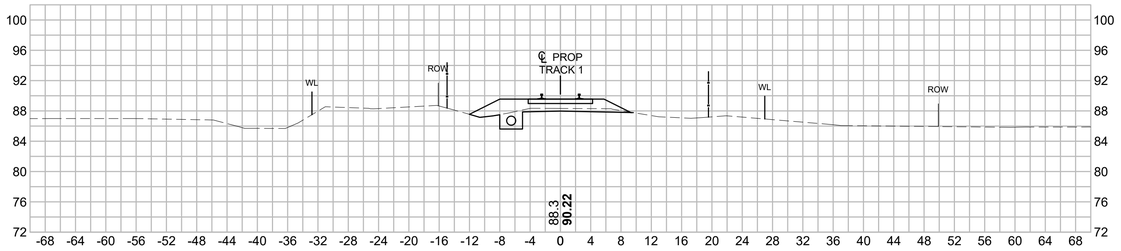
PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: 1" = 10'	DC	DC	KJC		
DATE: 06/01/2018				SHEET XS-302	

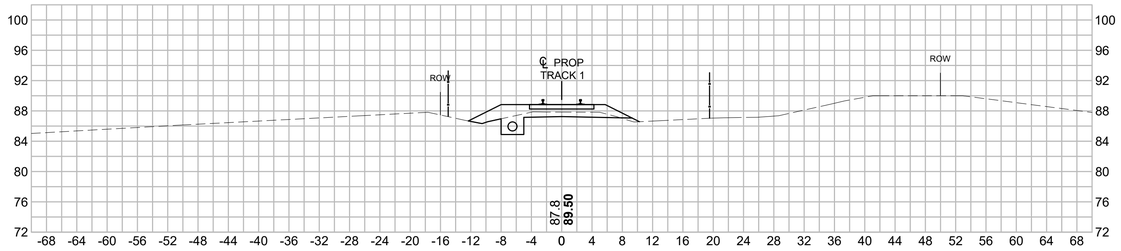
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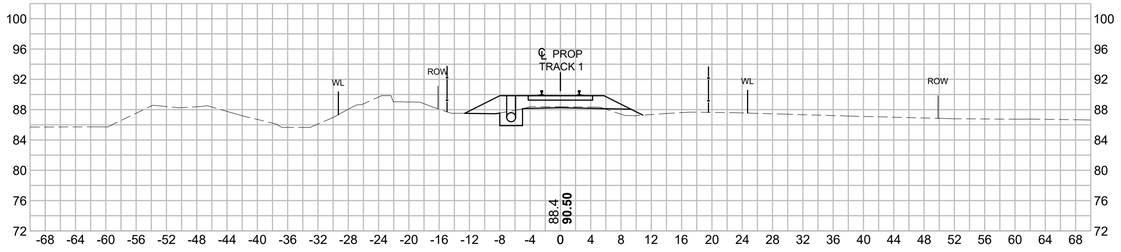
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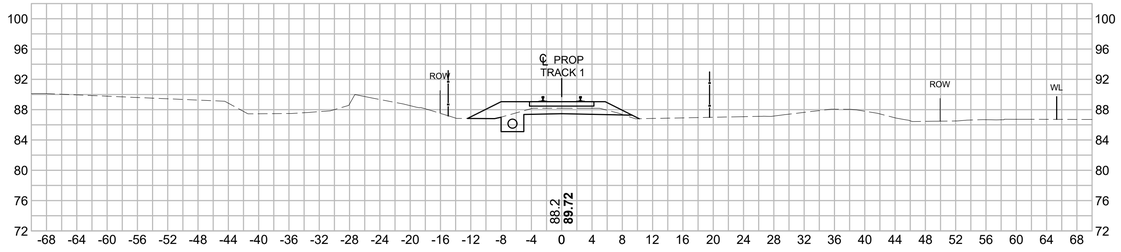
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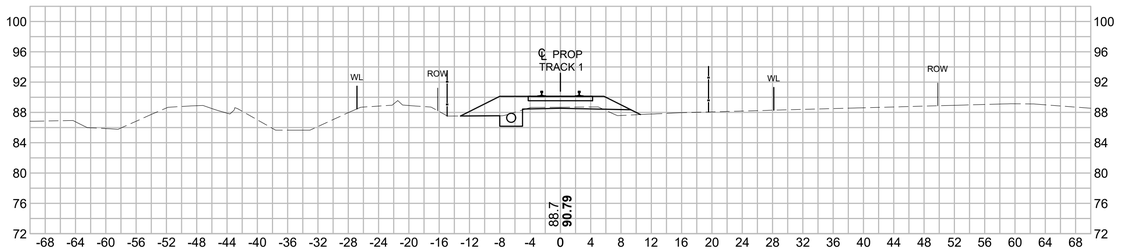
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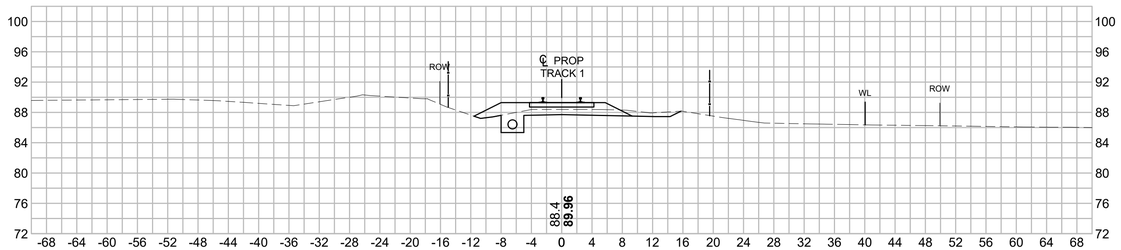
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2545+00



2548+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 3

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

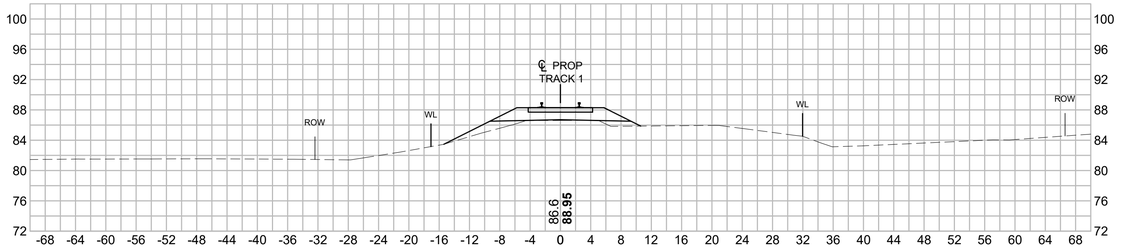
SHEET XS-303

ISSUE

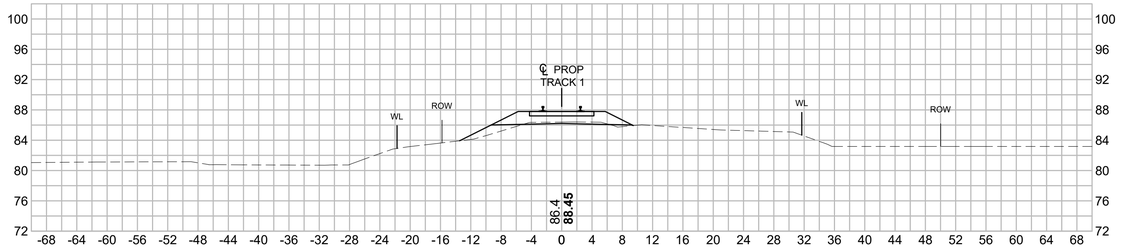
Plotted on: June 6, 2018 10:32 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS2).DWG

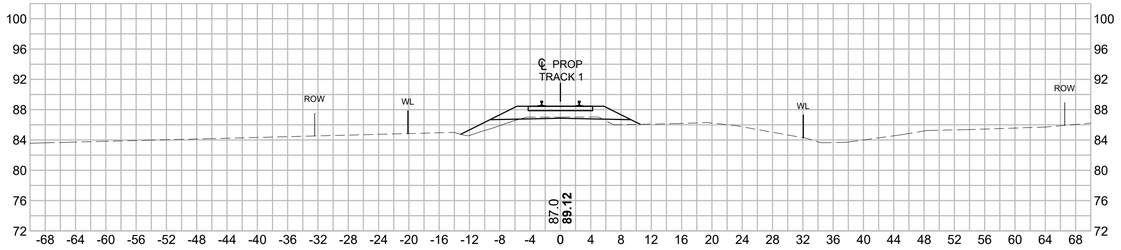
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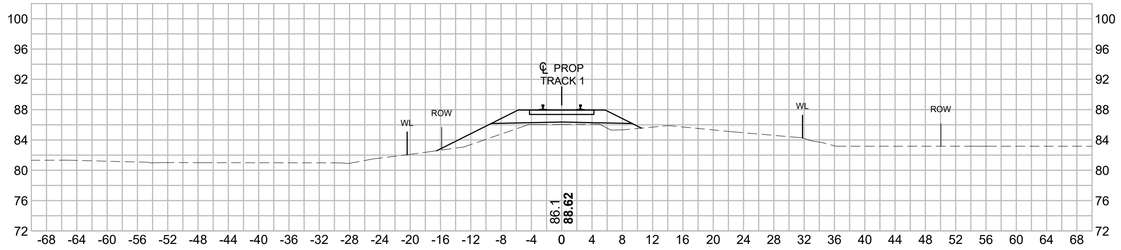
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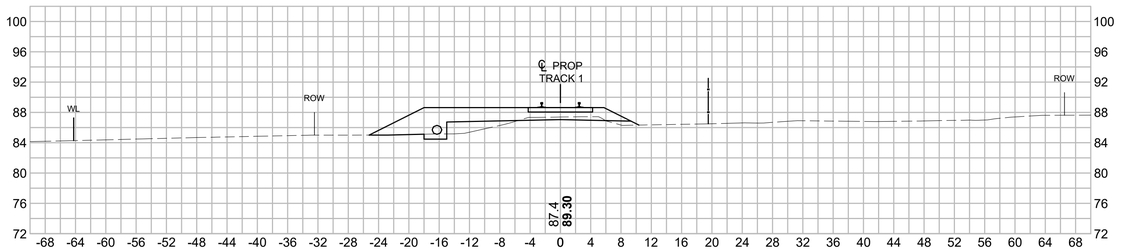
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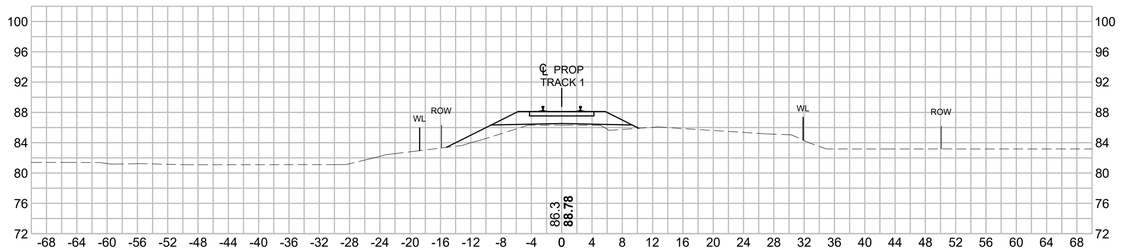
2555+00



2551+00



2554+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 4

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

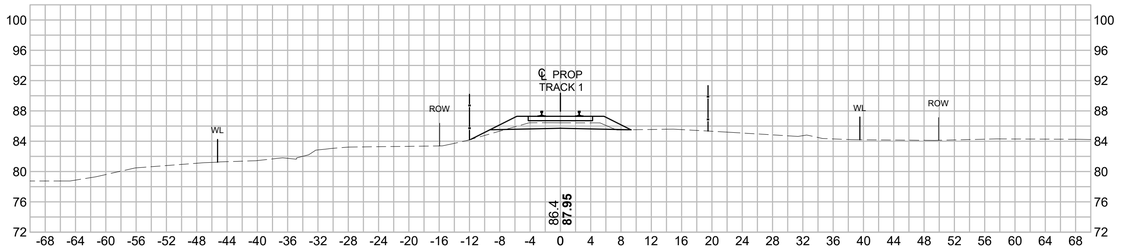
SHEET XS-304

ISSUE

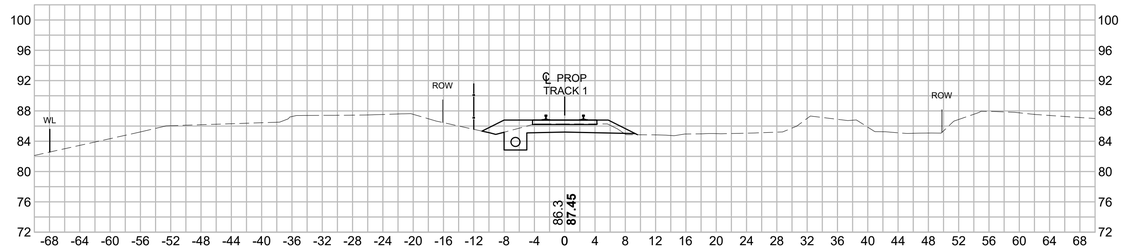
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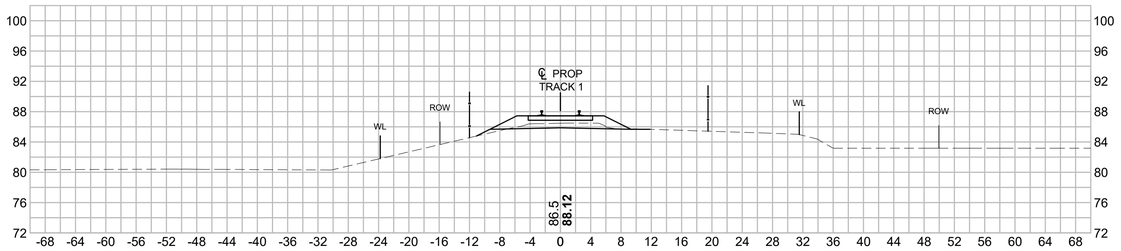
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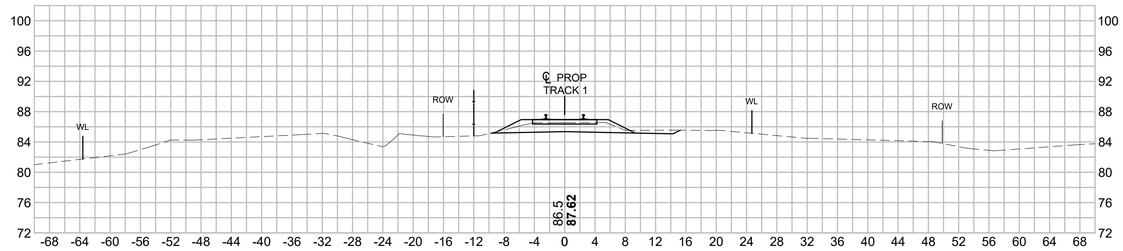
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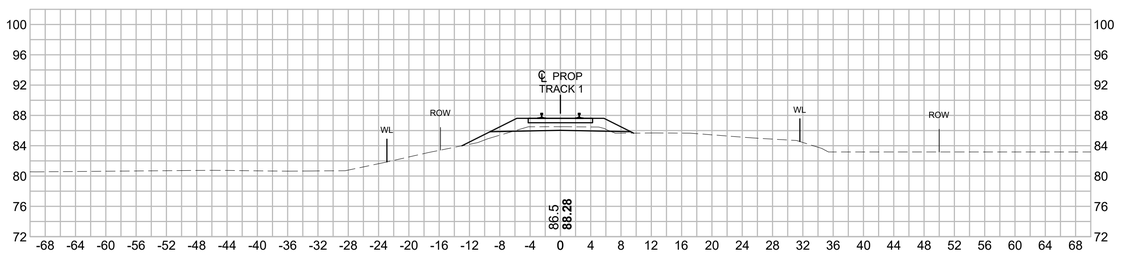
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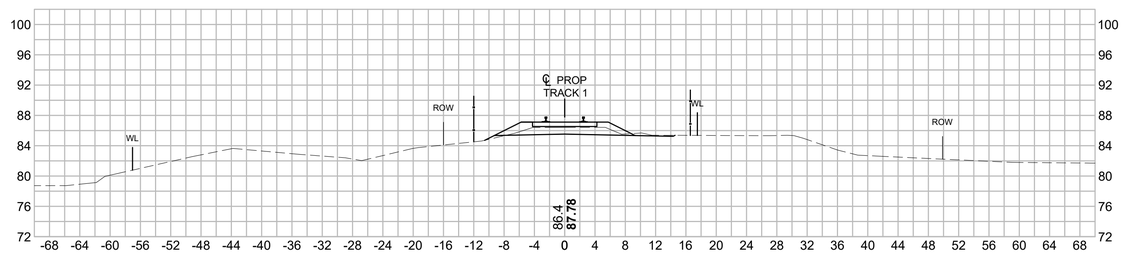
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2557+00



2560+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 5

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

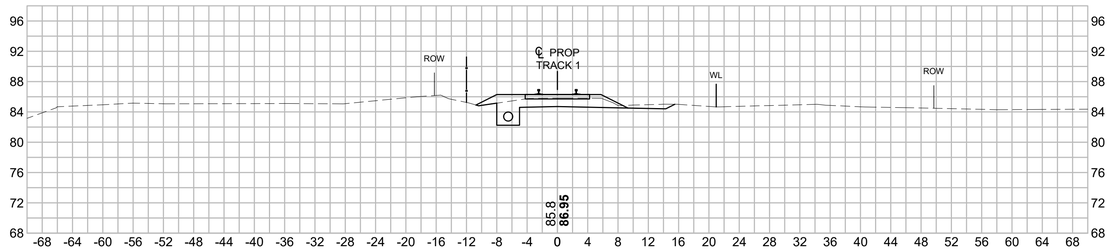
SHEET XS-305

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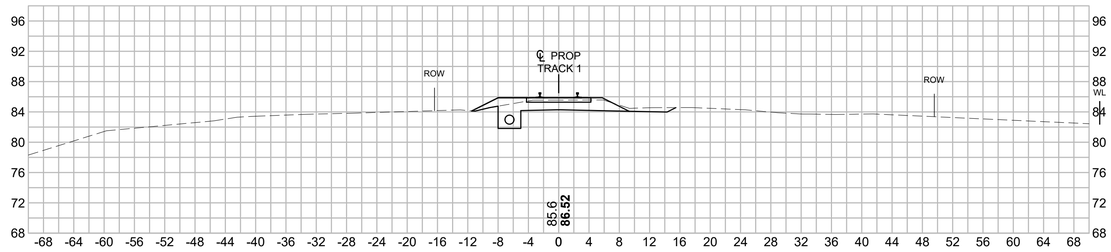
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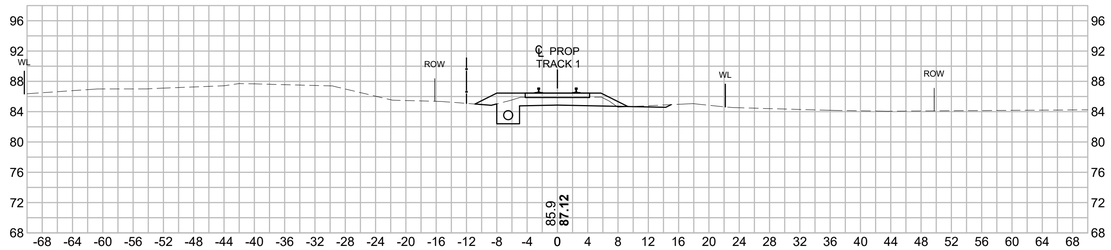
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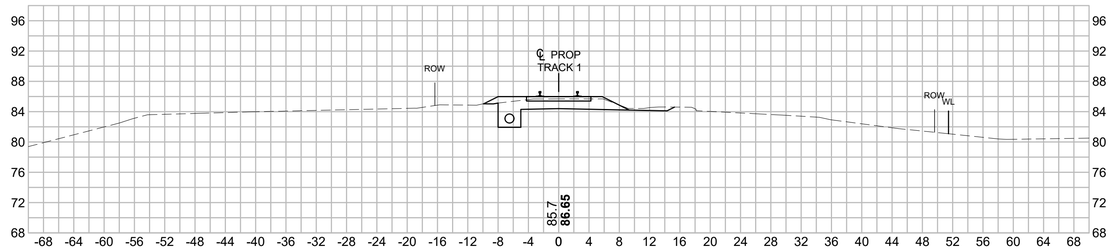
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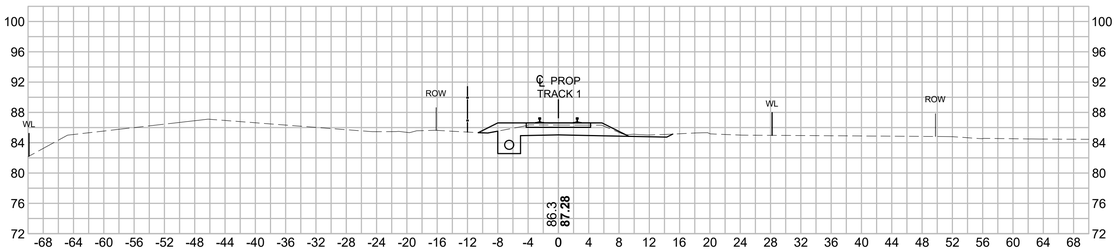
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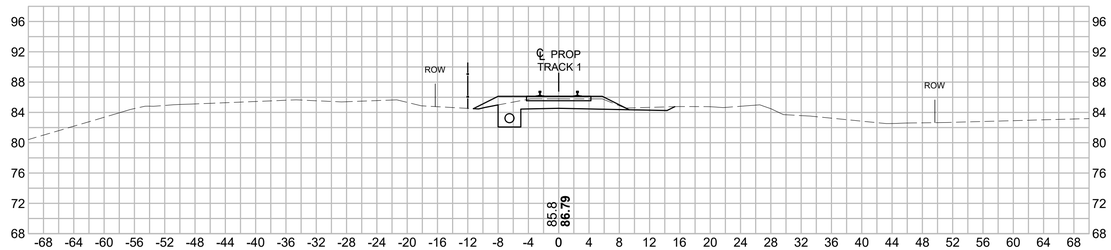
2567+00



2563+00



2566+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 6

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

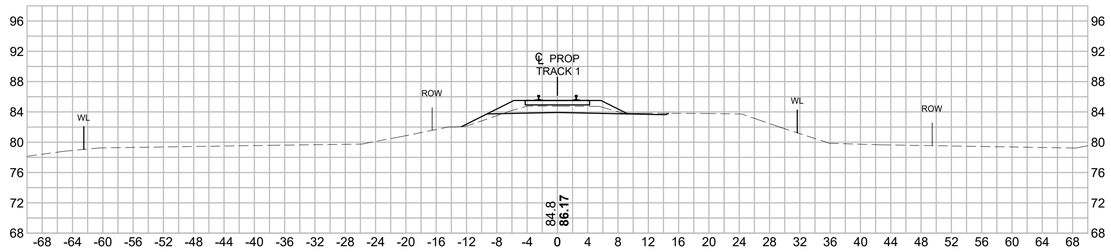
SHEET XS-306

ISSUE

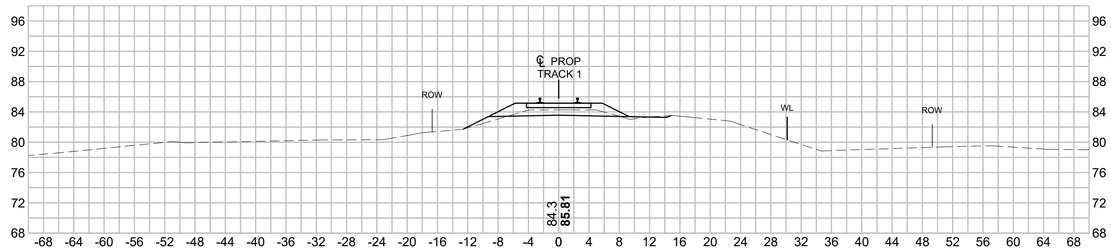
Plotted on June 6, 2018 10:33 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS2).DWG

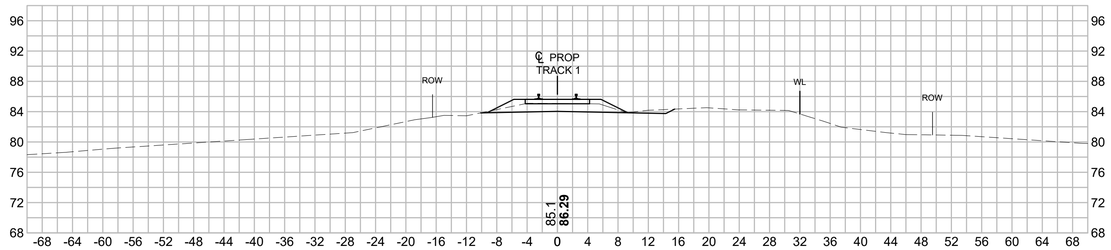
2571+00



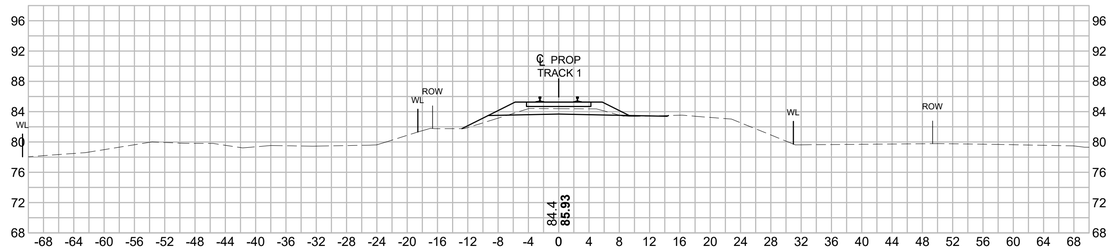
2574+00



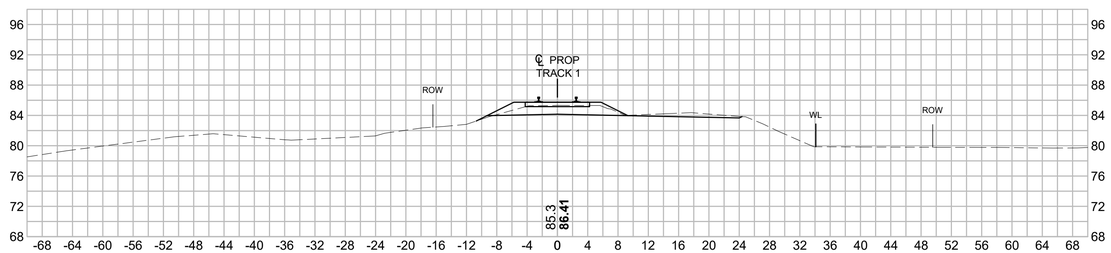
2570+00



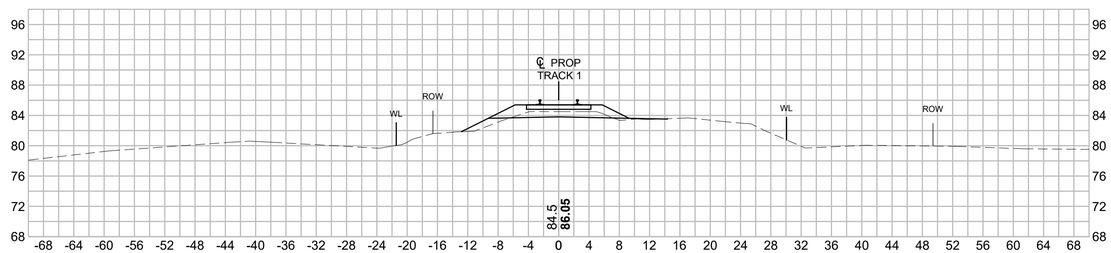
2573+00



2569+00



2572+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 7

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

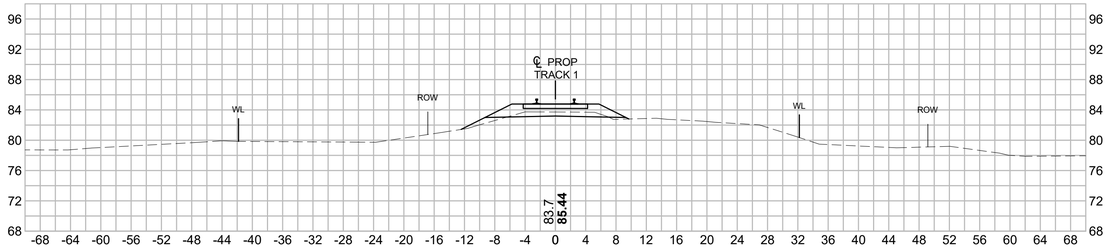
SHEET XS-307

ISSUE

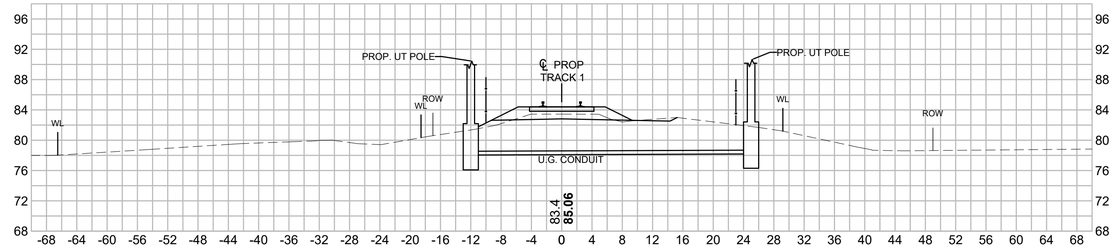
Plotted on: June 6, 2018 10:33 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS2).DWG

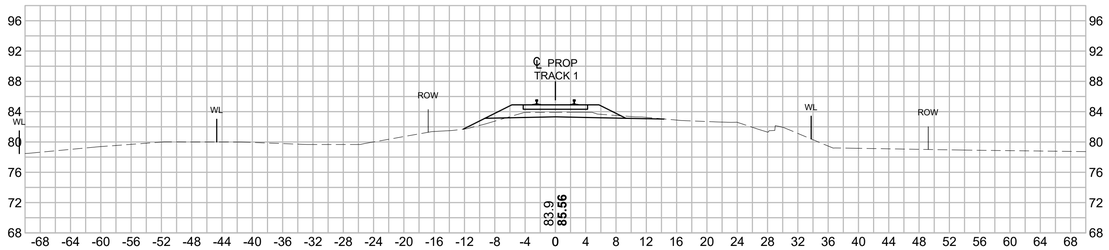
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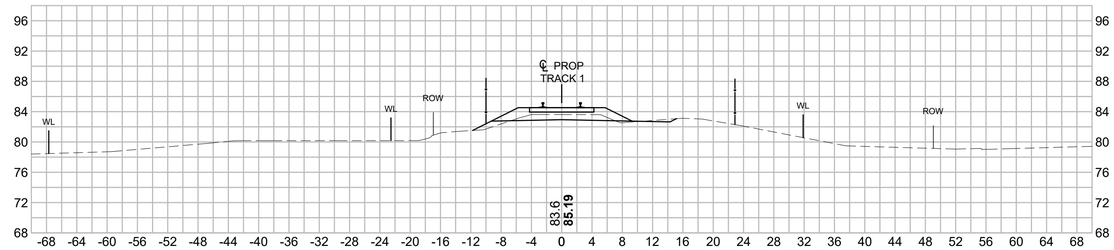
2580+00



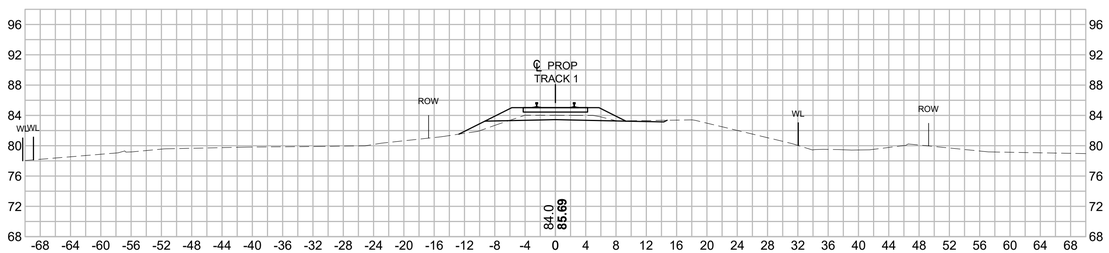
2576+00



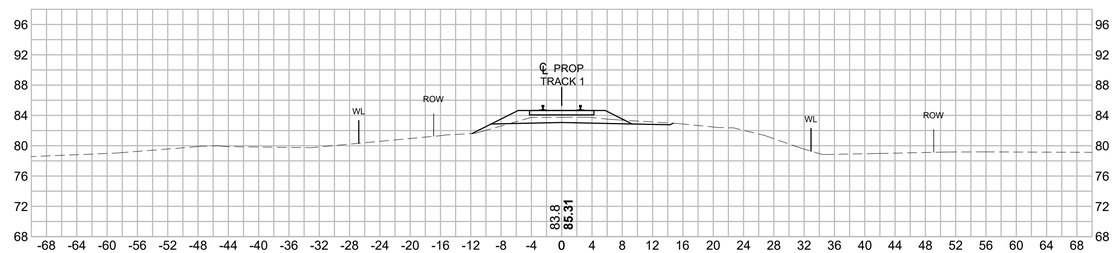
2579+00



2575+00



2578+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 8

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

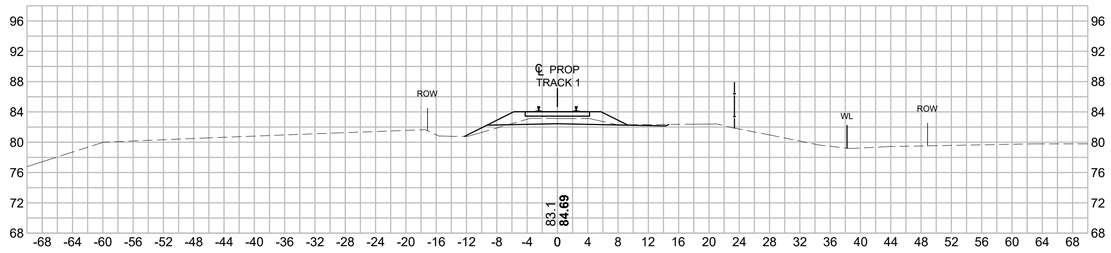
SHEET XS-308

ISSUE

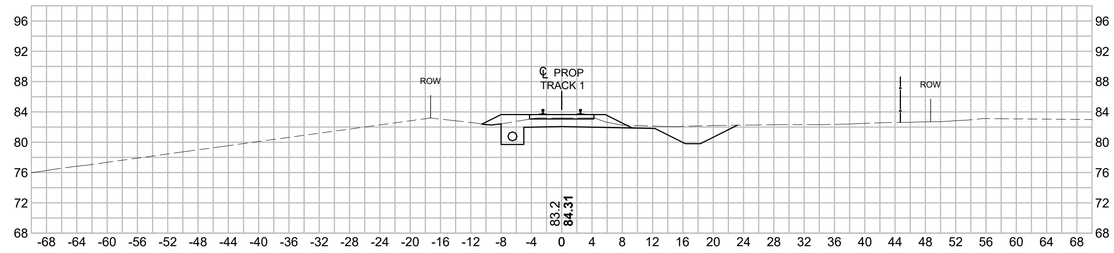
Plotted on: June 6, 2018 10:33 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS2).DWG

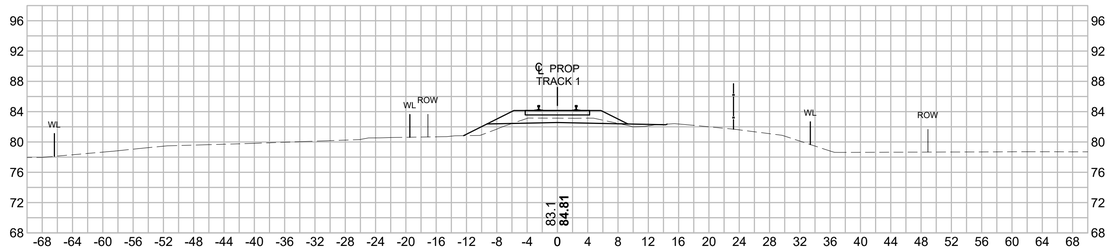
2583+00



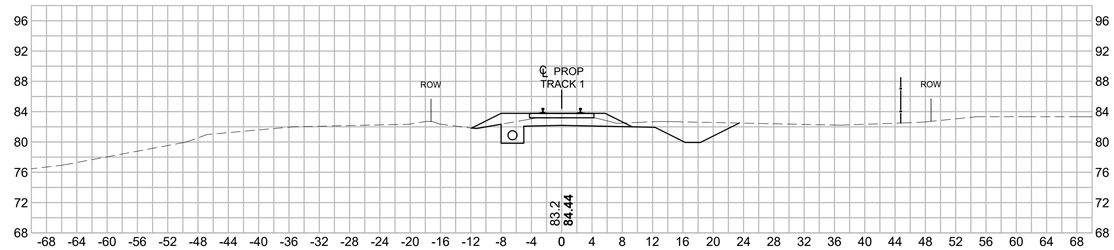
2586+00



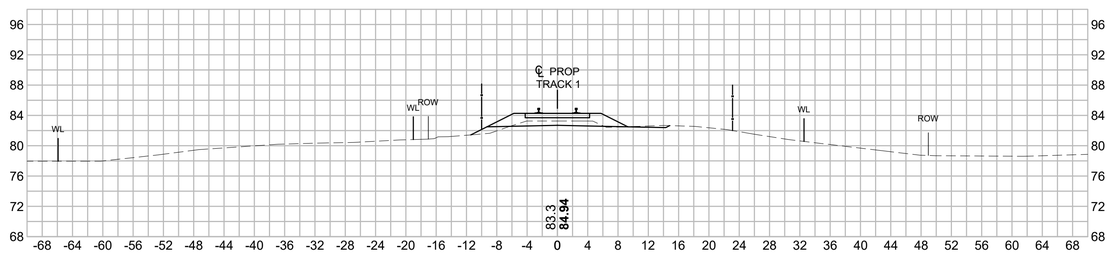
2582+00



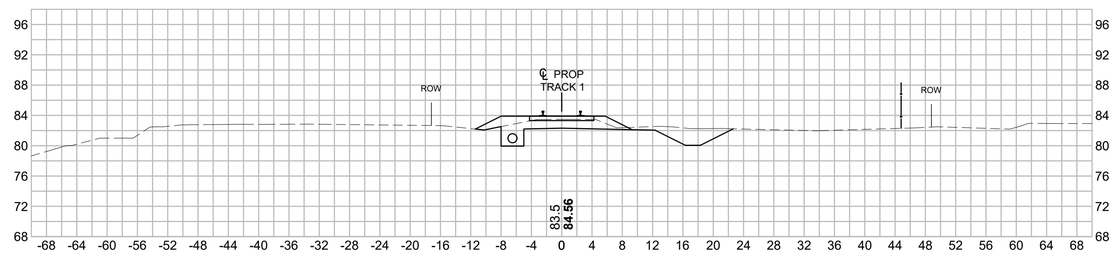
2585+00



2581+00



2584+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 9

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

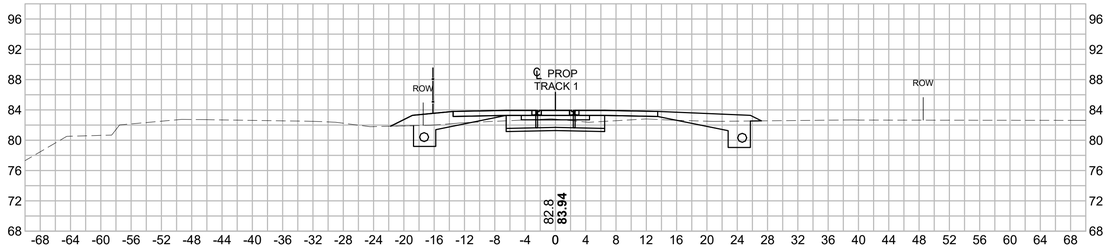
SHEET XS-309

ISSUE

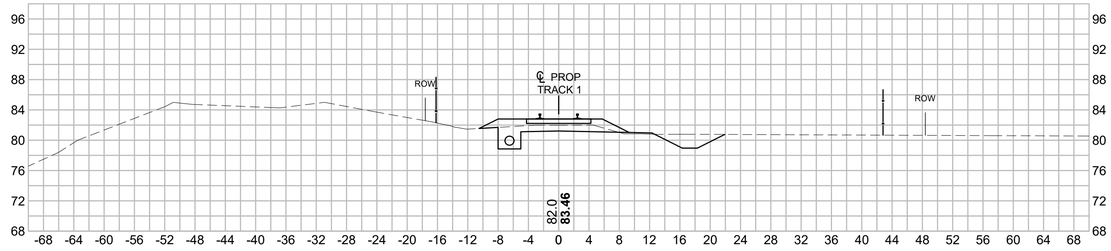
Plotted on June 6, 2018 10:33 AM

FILE NAME: \\VHBPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS2).DWG

2589+00



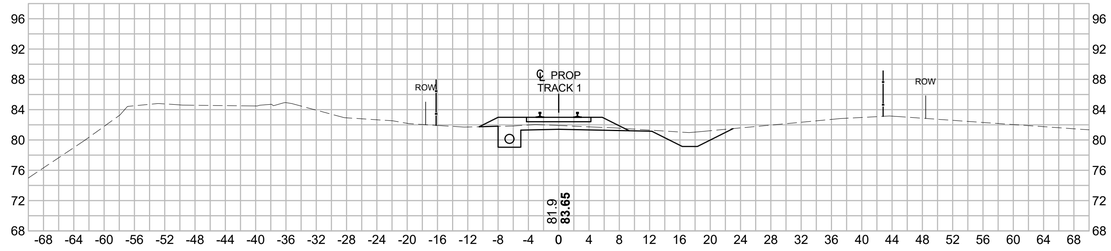
2592+00



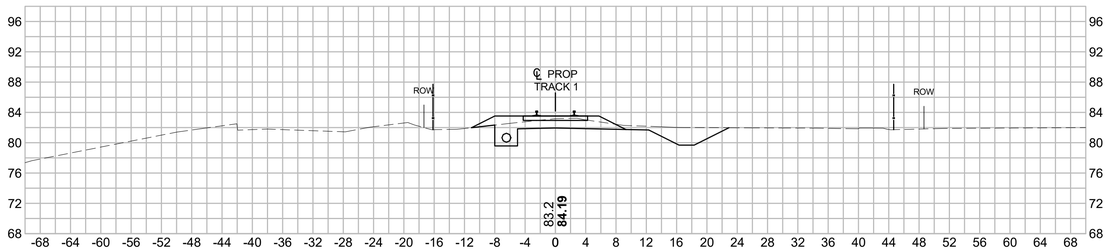
2588+00



2591+00



2587+00



2590+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 10

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

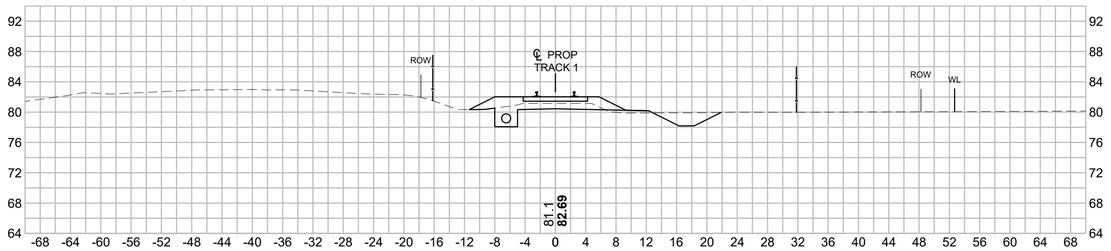
SHEET XS-310

ISSUE

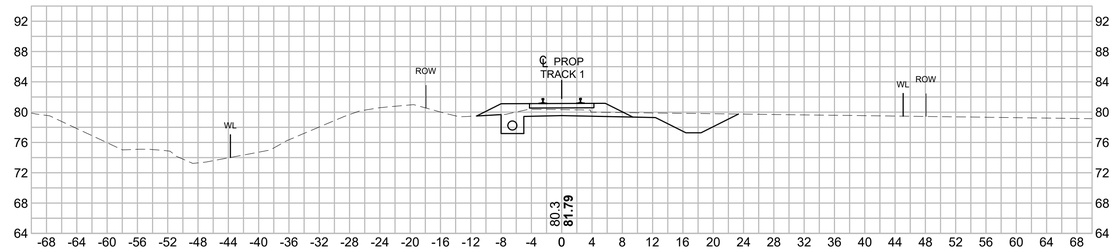
Plotted on June 6, 2018 10:33 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS2).DWG

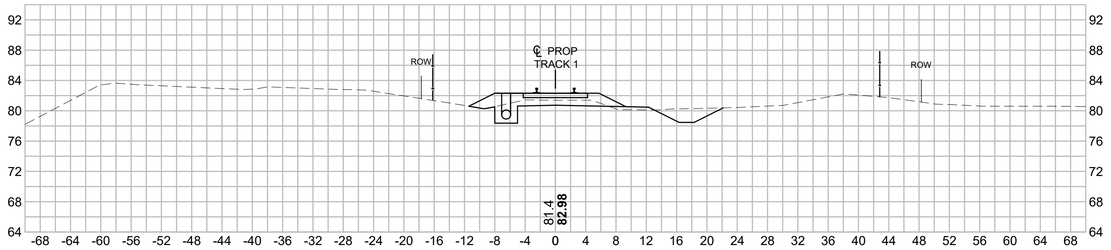
2595+00



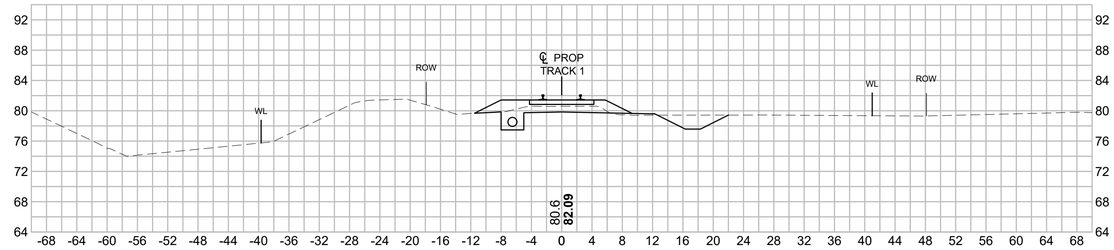
2598+00



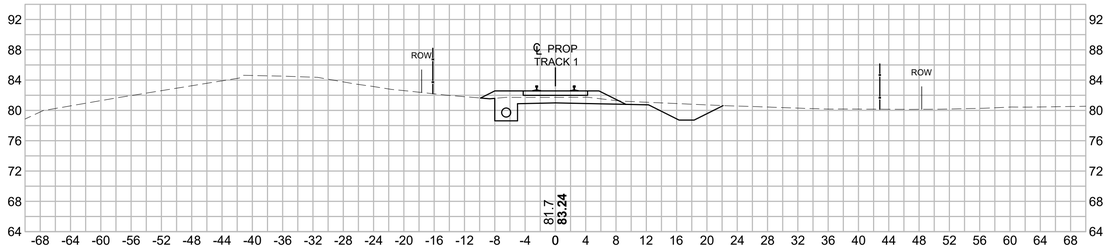
2594+00



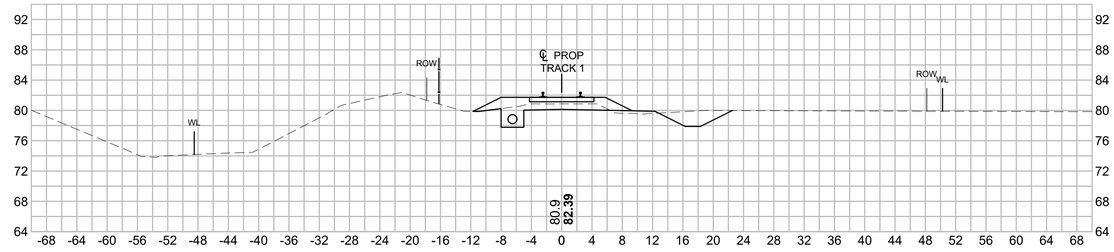
2597+00



2593+00



2596+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 11

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

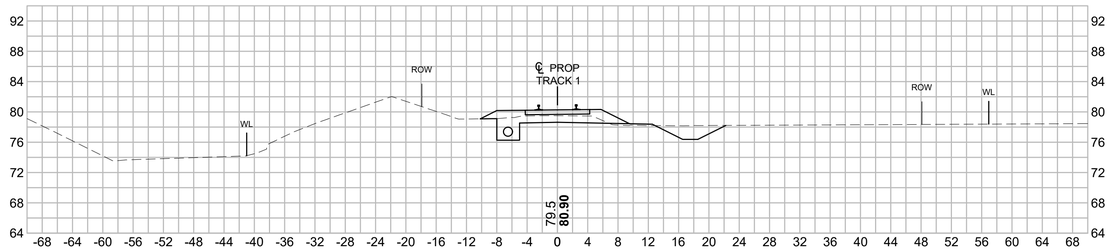
ISSUE

SHEET XS-311

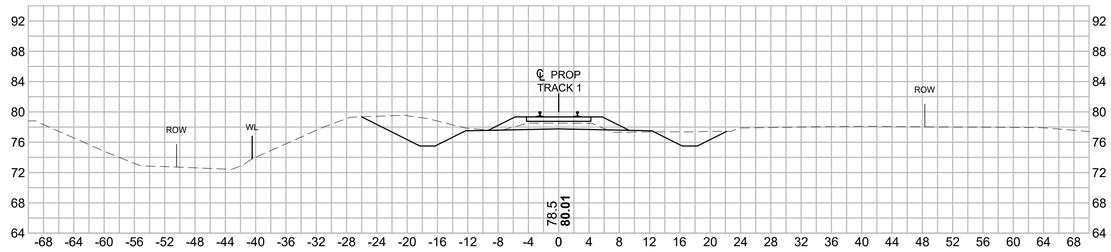
Plotted on: June 6, 2018 10:34 AM

FILE NAME: \\VHBIPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

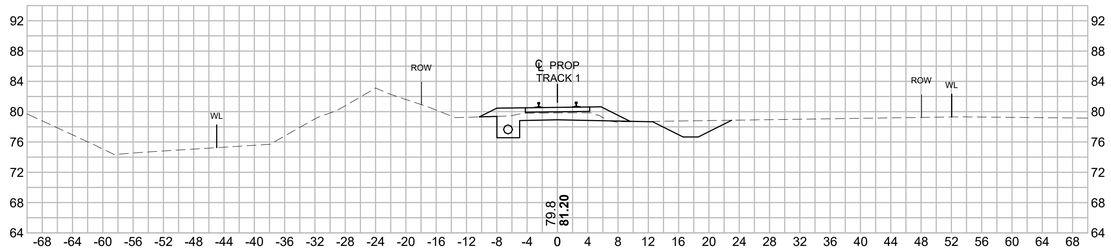
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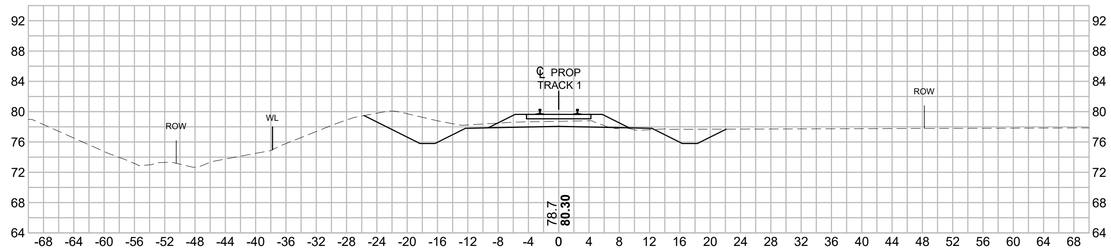
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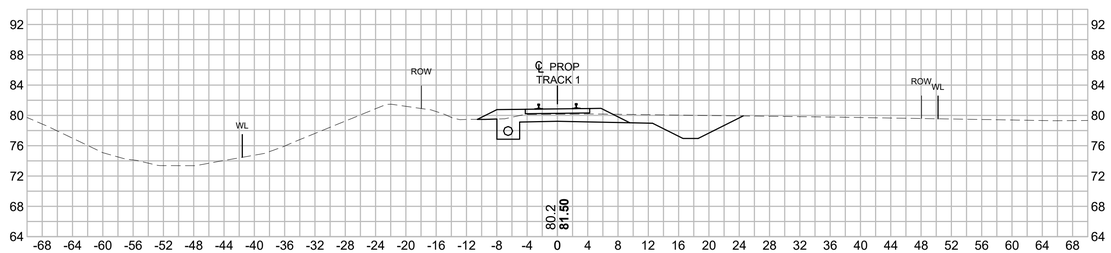
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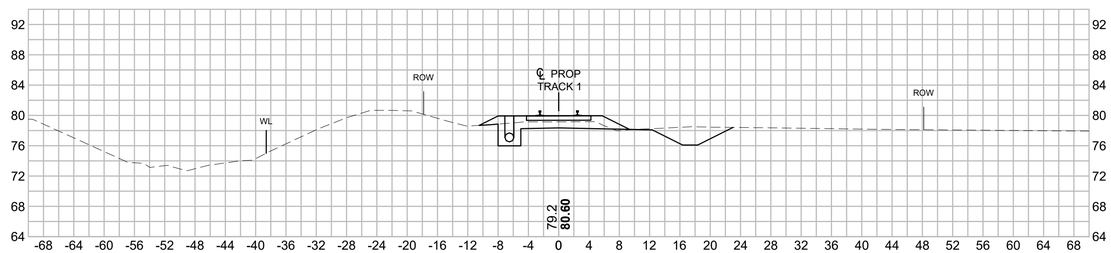
2603+00



2599+00



2602+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 12

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

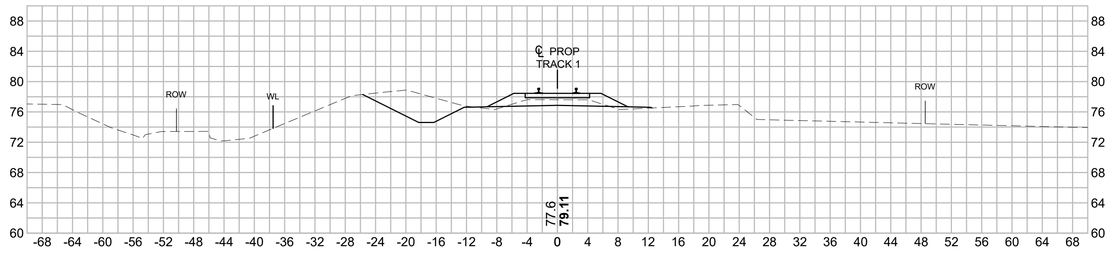
SHEET XS-312

ISSUE

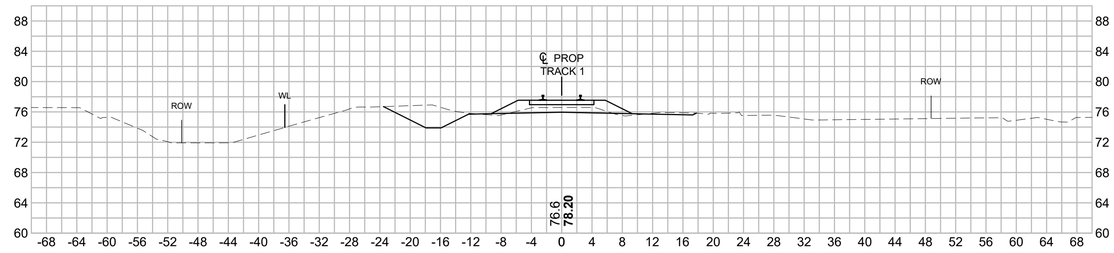
Plotted on: June 6, 2018 10:34 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

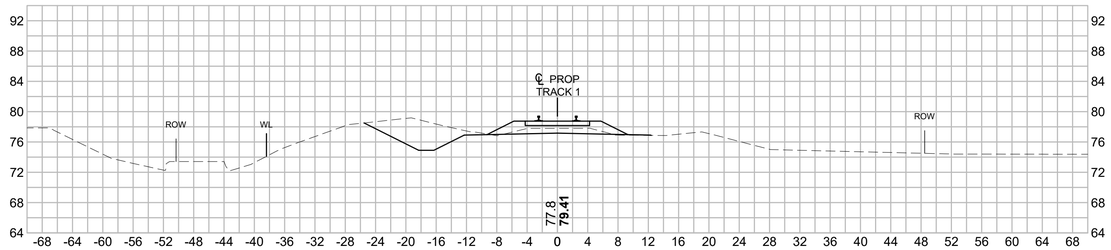
2607+00



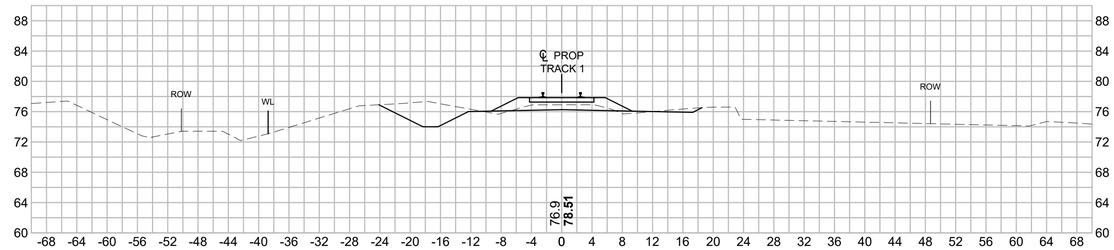
2610+00



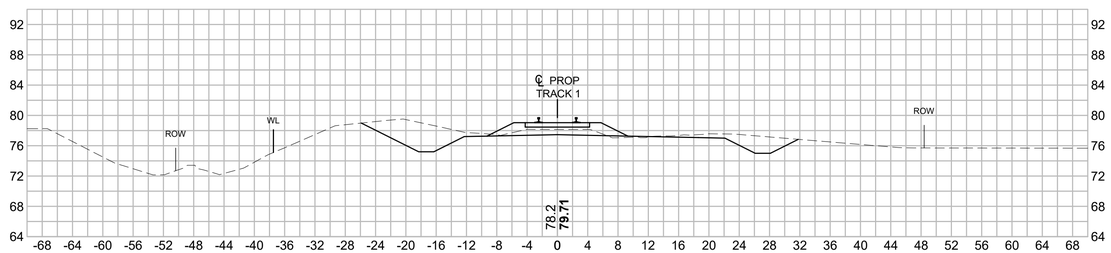
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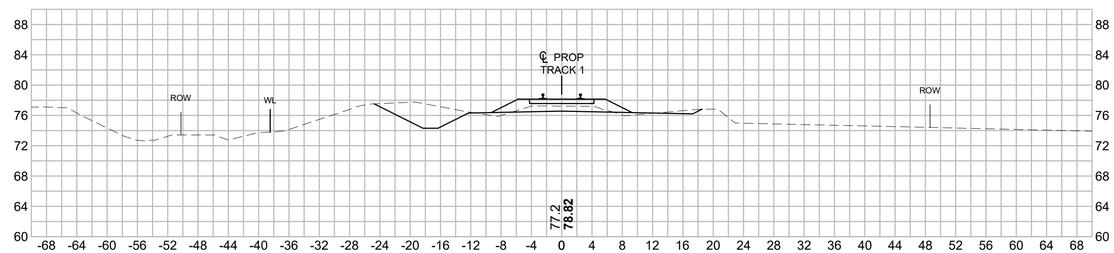
2609+00



2605+00



2608+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 13

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

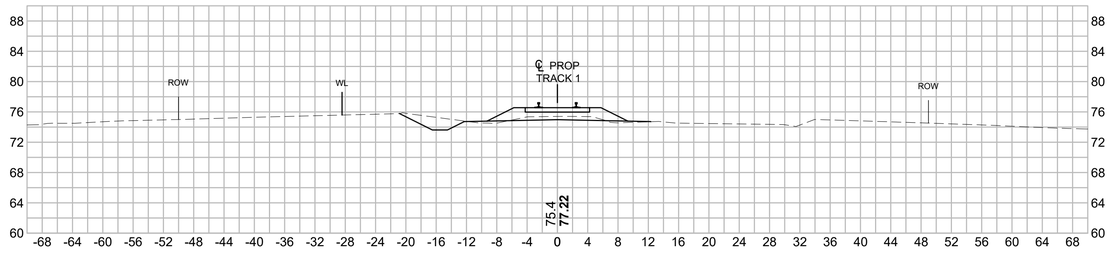
SHEET XS-313

ISSUE

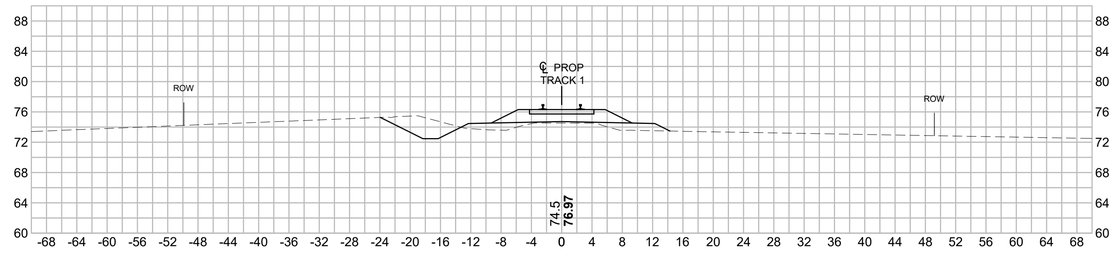
Plotted on: June 6, 2018 10:35 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

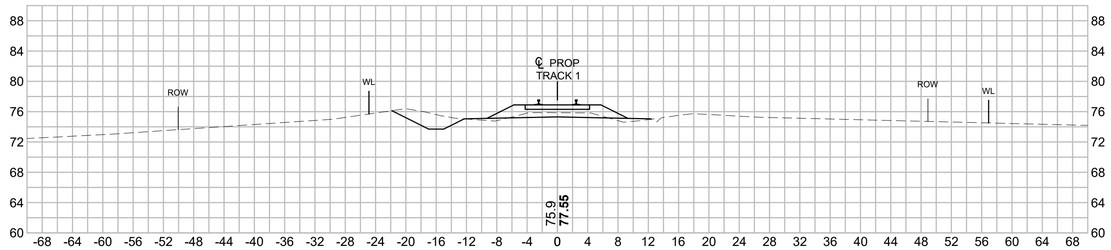
2613+00



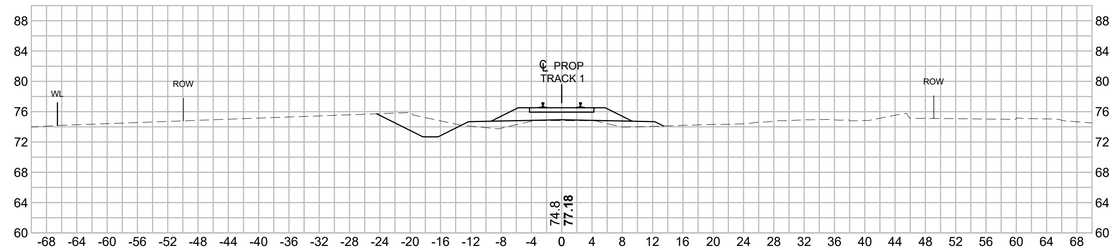
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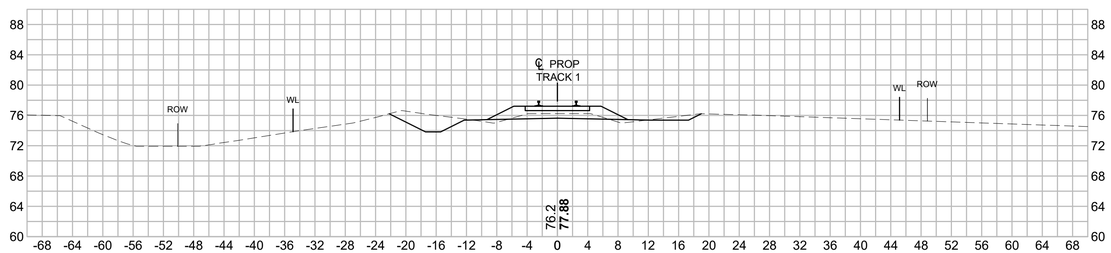
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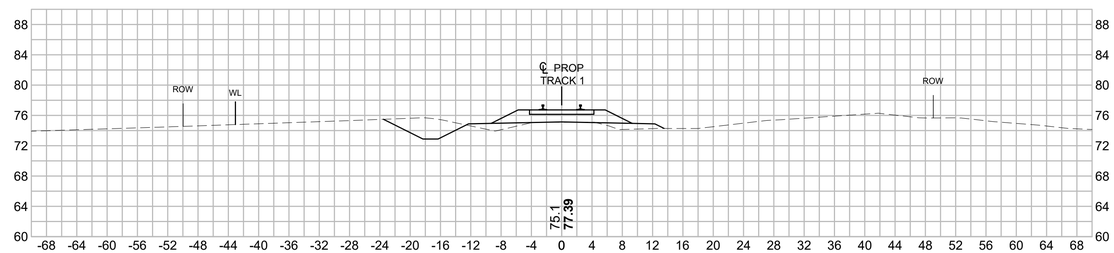
2615+00



2611+00



2614+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 14

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

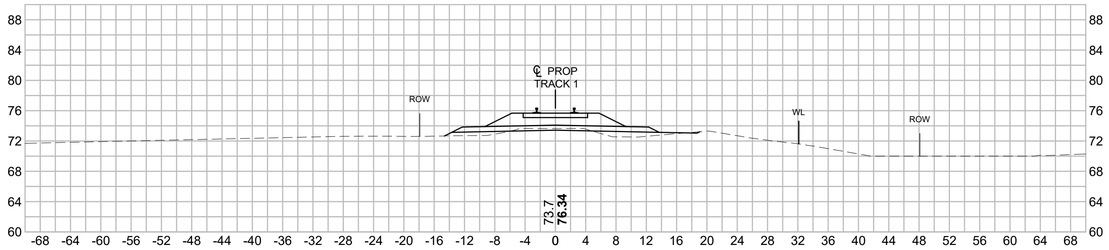
SHEET XS-314

ISSUE

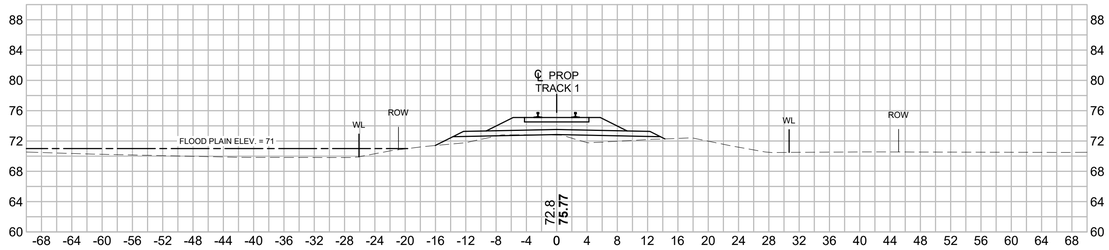
Plotted on: June 6, 2018 10:35 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

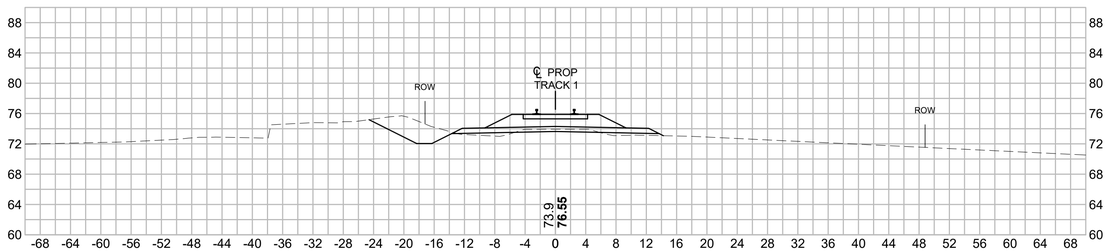
2619+00



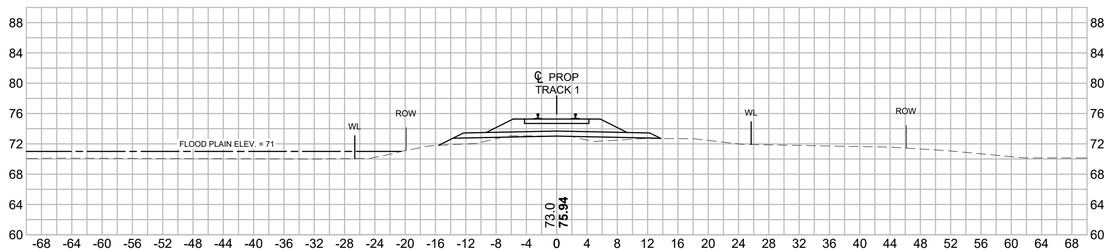
2622+00



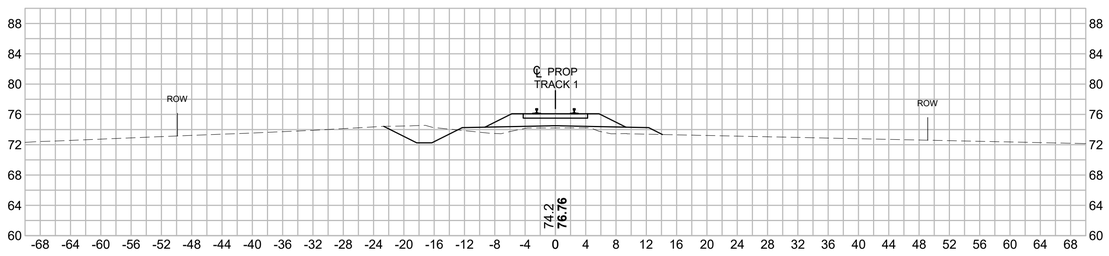
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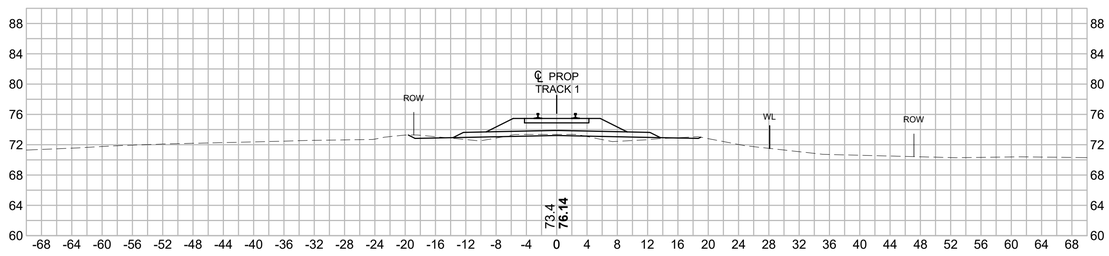
2621+00



2617+00



2620+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 15

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

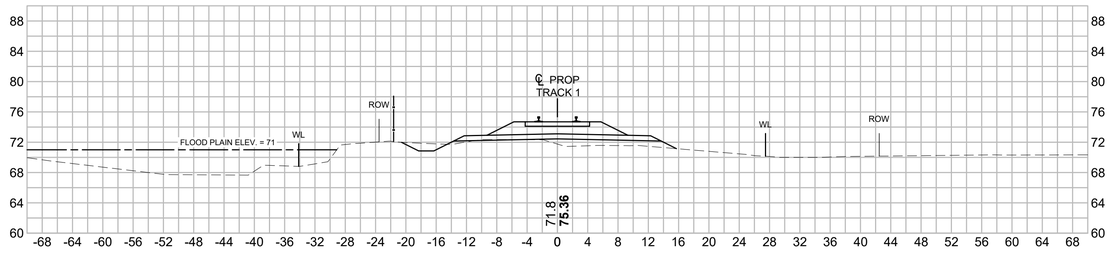
SHEET XS-315

ISSUE

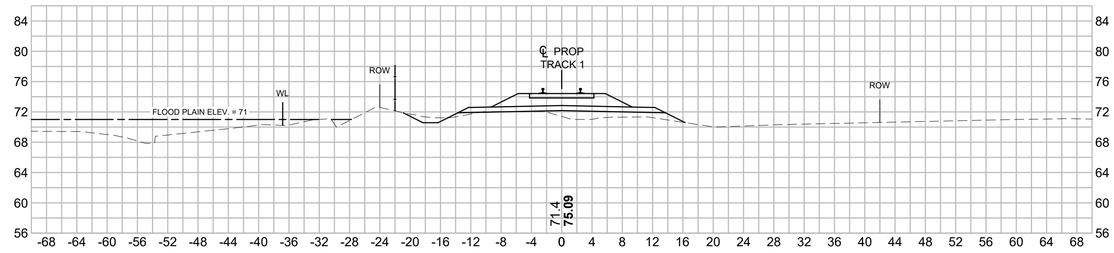
Plotted on: June 6, 2018 10:35 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CMCAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

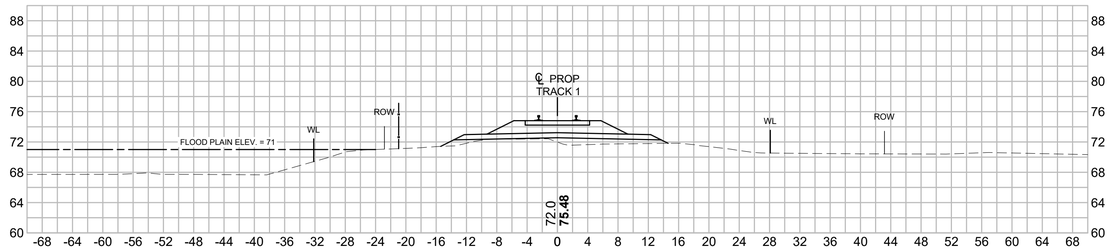
2625+00



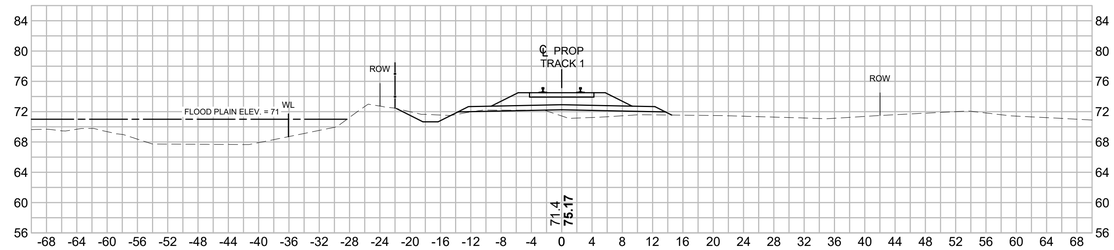
2628+00



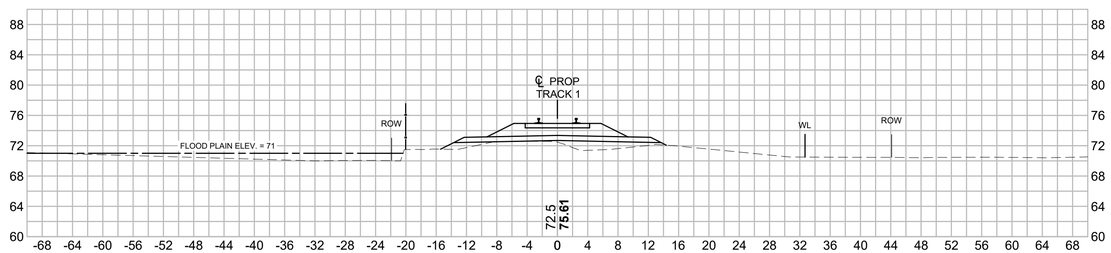
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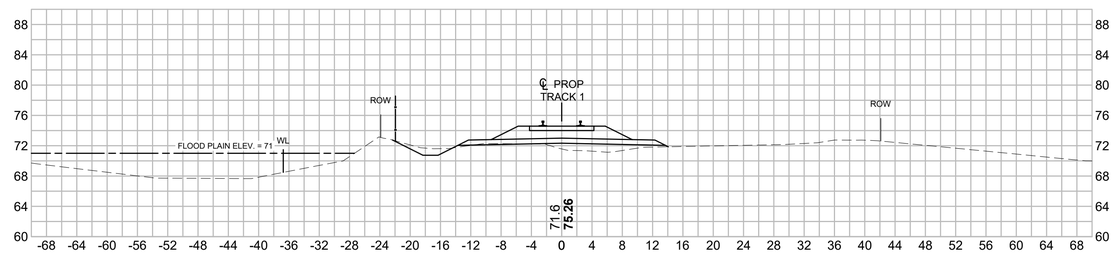
2627+00



2623+00



2626+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 16

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

Vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

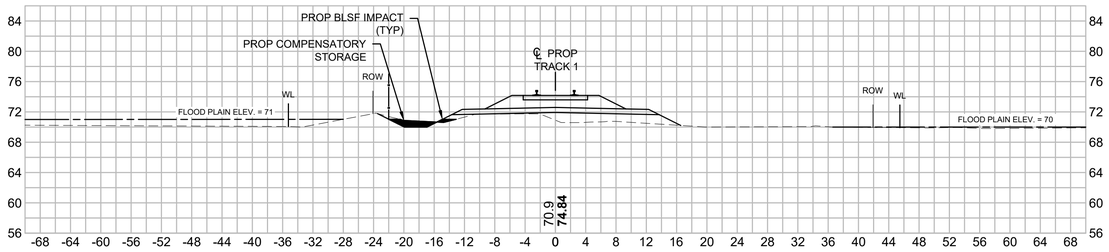
SHEET XS-316

ISSUE

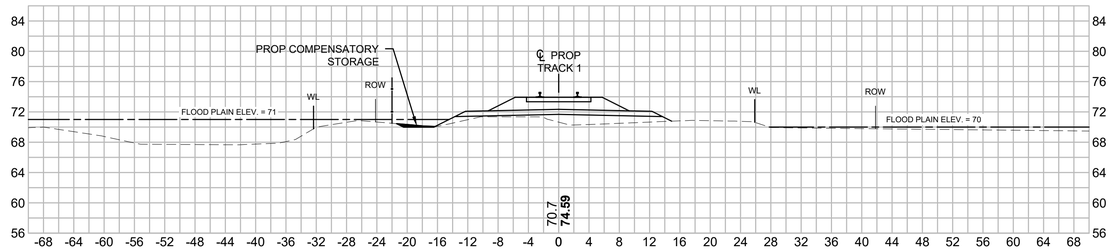
Plotted on: June 6, 2018 10:35 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

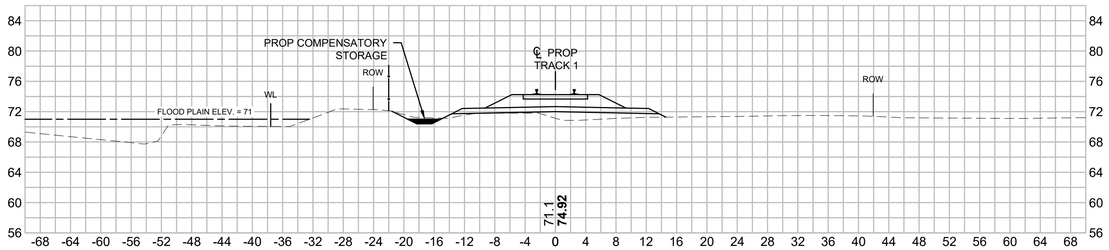
2631+00



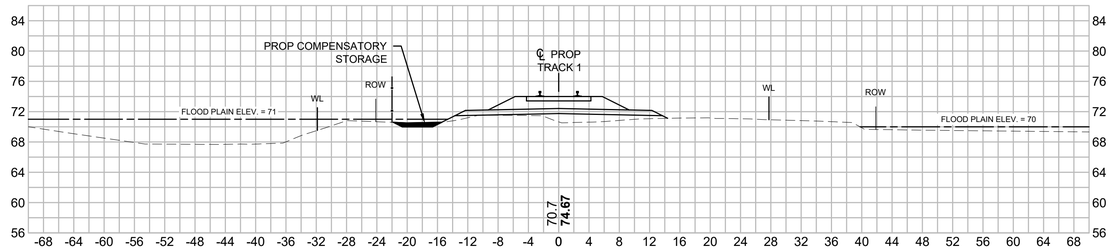
2634+00



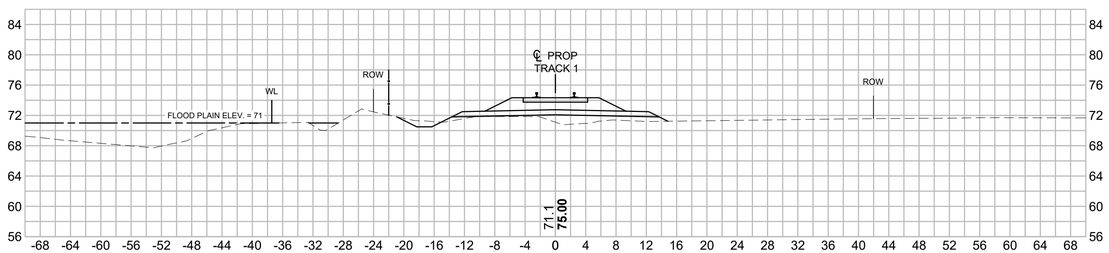
2630+00



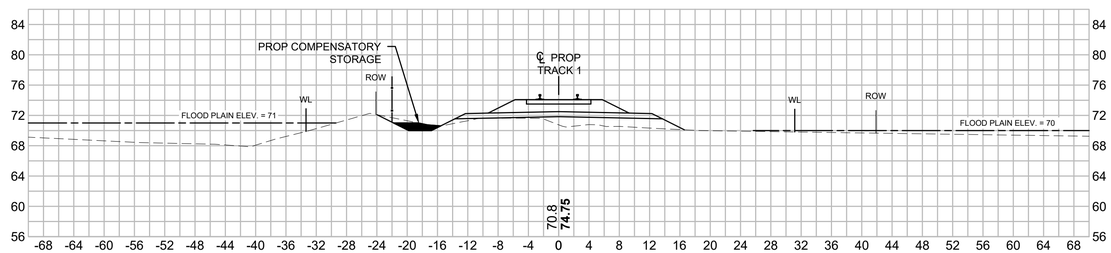
2633+00

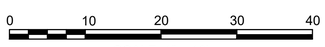


2629+00



2632+00





ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 17

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

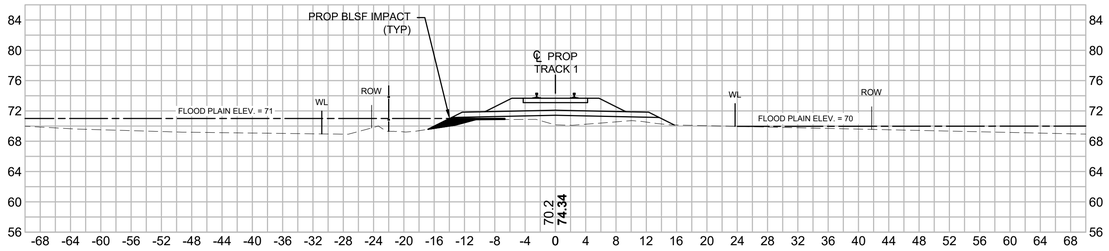
SHEET XS-317

ISSUE

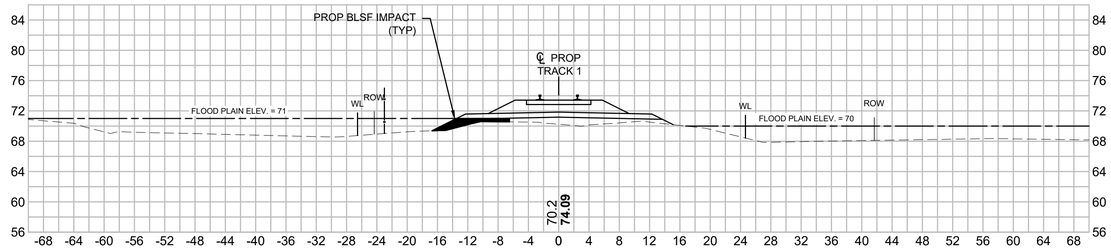
Plotted on: June 6, 2018 10:36 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

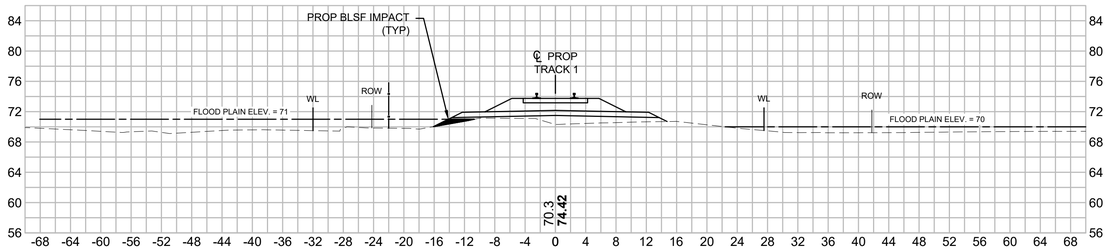
2637+00



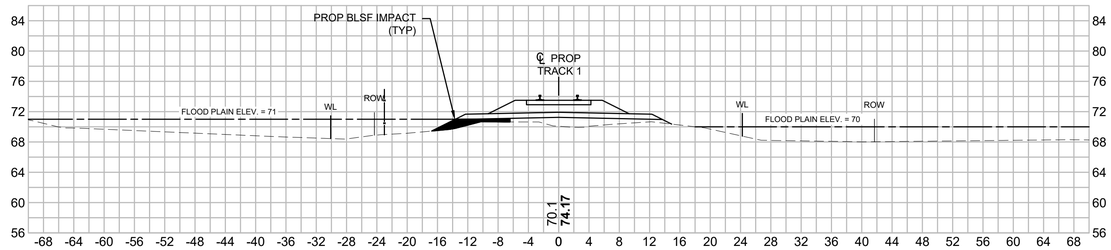
2640+00



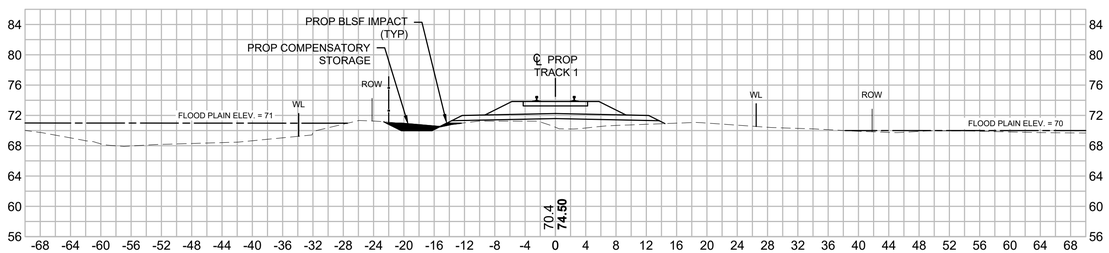
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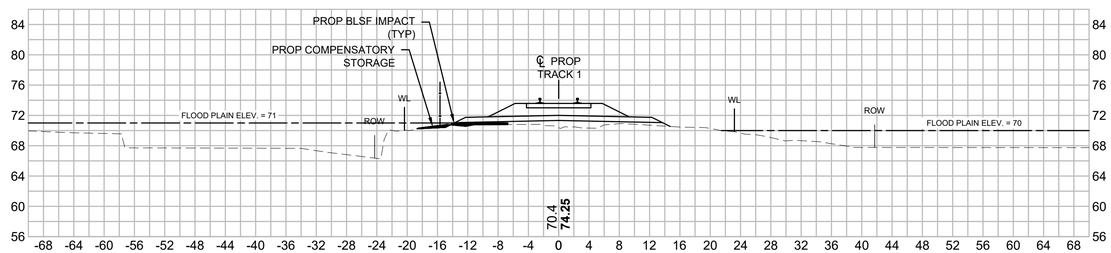
2639+00



2635+00



2638+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 18

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

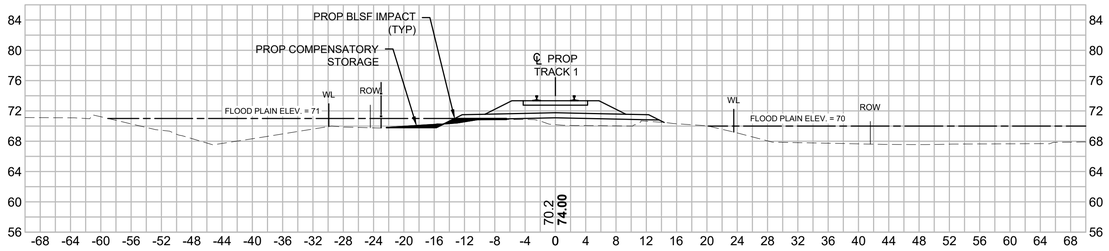
SHEET XS-318

ISSUE

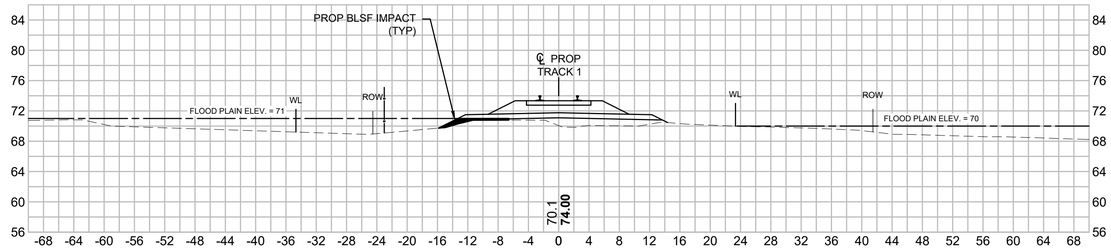
Plotted on: June 6, 2018 10:36 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

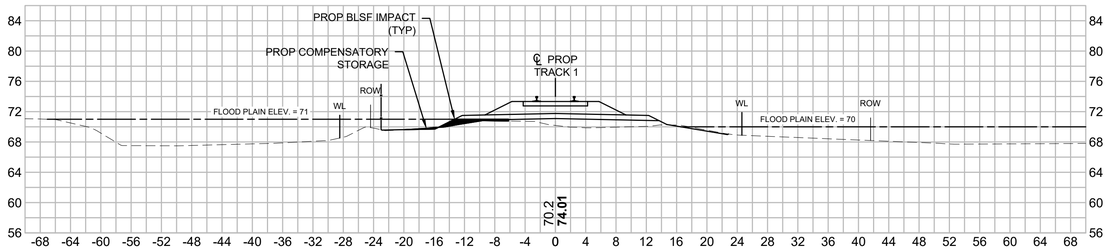
2643+00



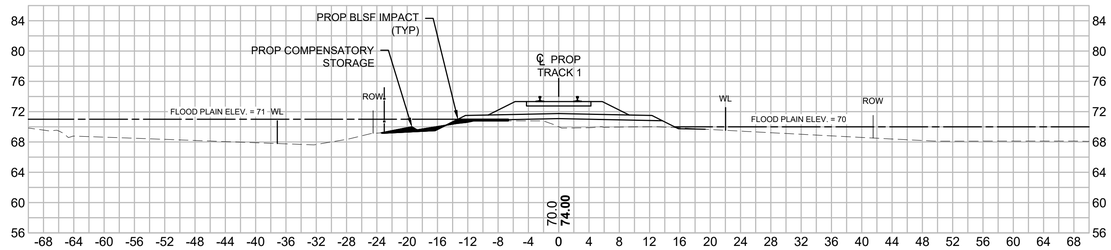
2646+00



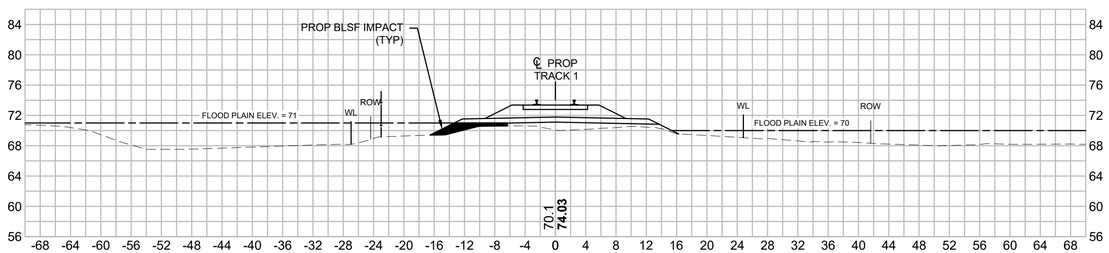
2642+00



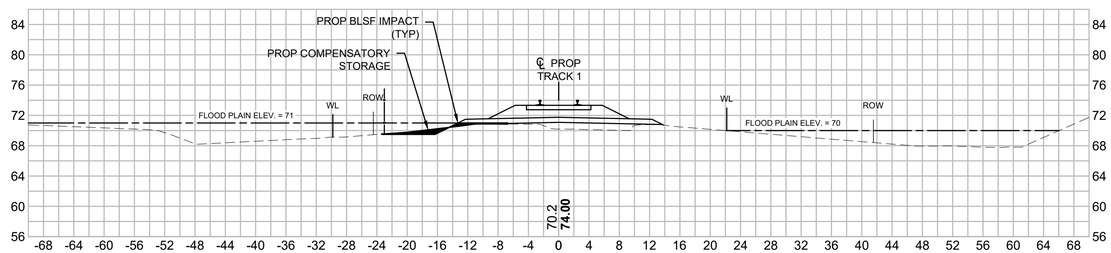
2645+00



2641+00



2644+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 19

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

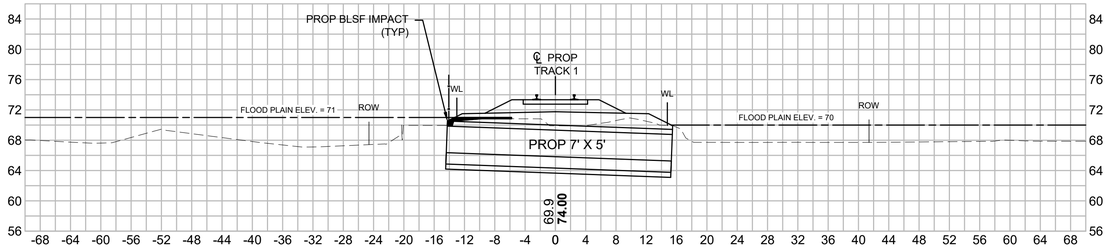
PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: 1" = 10'	DC	DC	KJC		
DATE: 06/01/2018				SHEET XS-319	

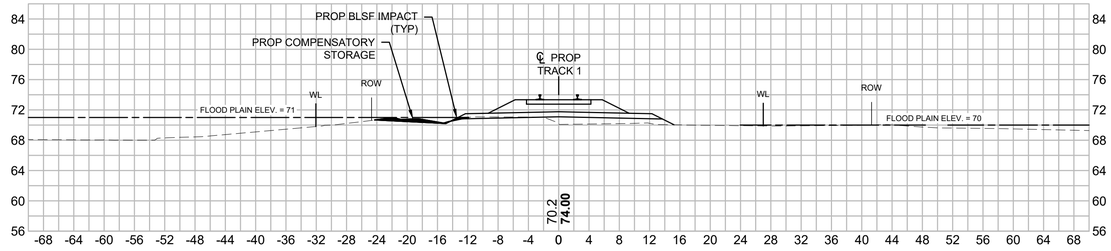
Plotted on: June 6, 2018 10:36 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

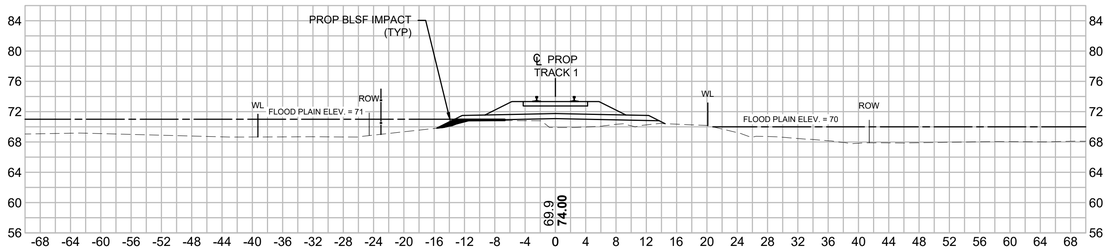
2649+00



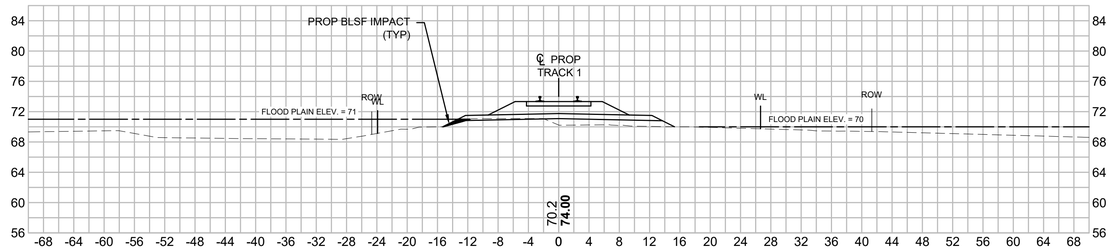
2652+00



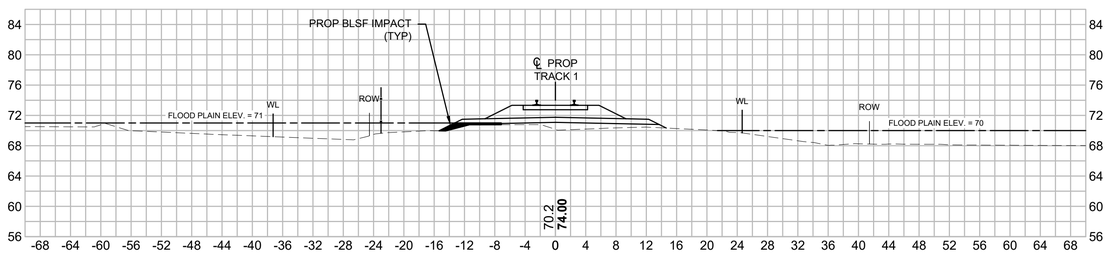
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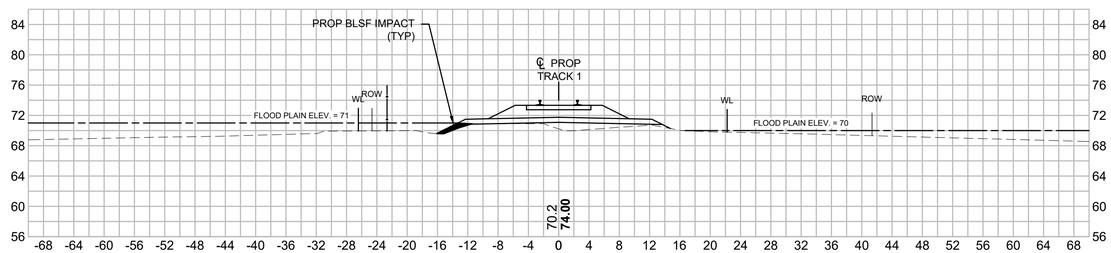
2651+00



2647+00



2650+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 20

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

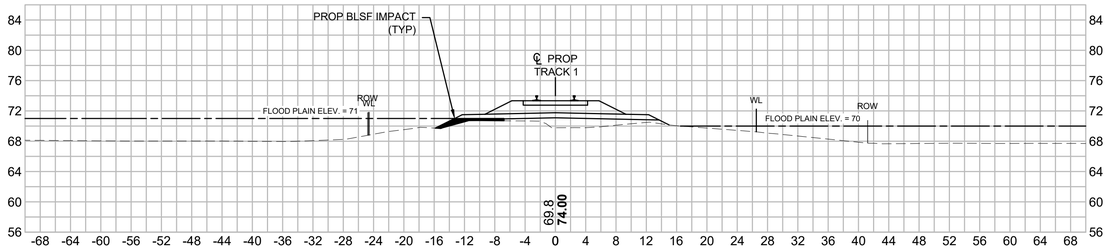
SHEET XS-320

ISSUE

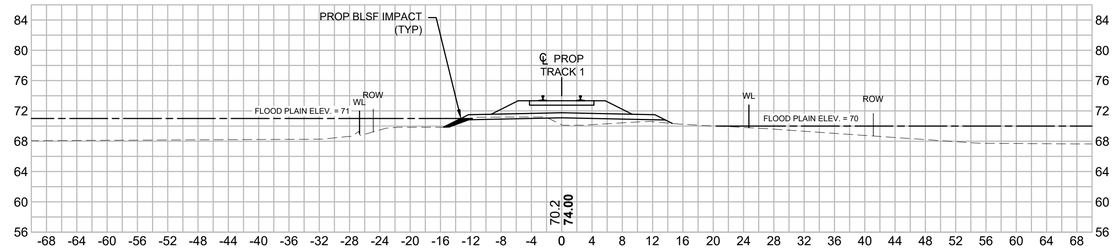
Plotted on: June 6, 2018 10:36 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS3).DWG

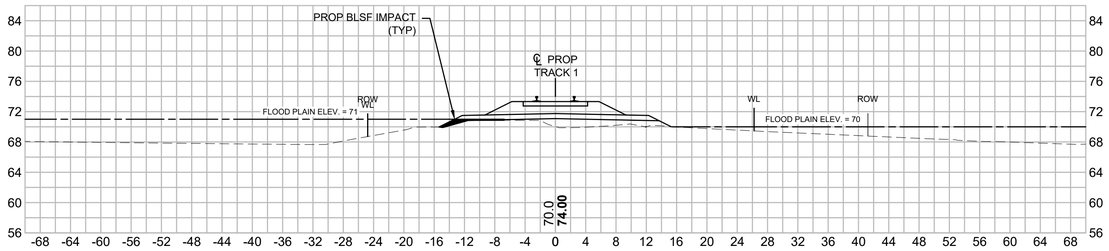
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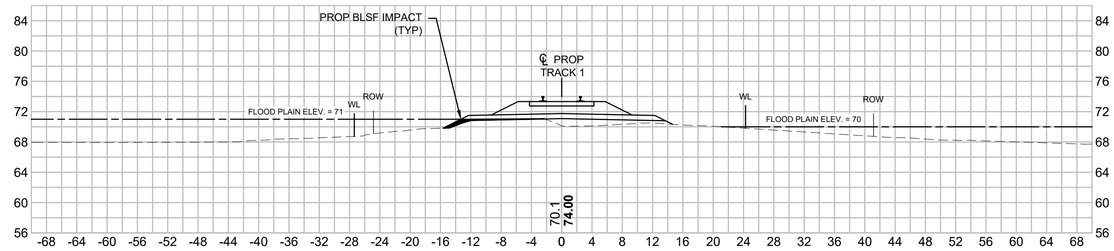
2658+00



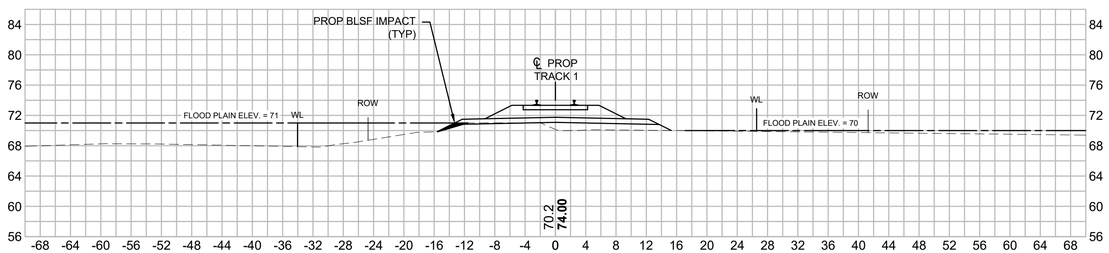
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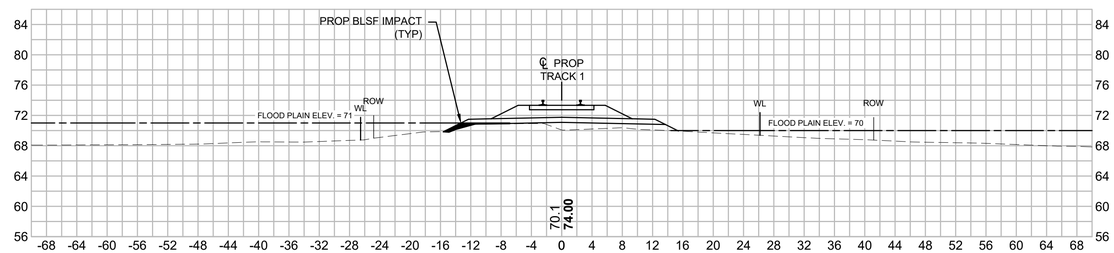
2657+00



2653+00



2656+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 21

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

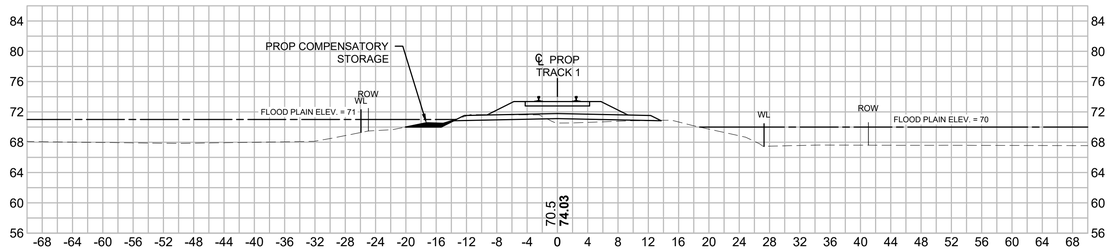
SHEET XS-321

ISSUE

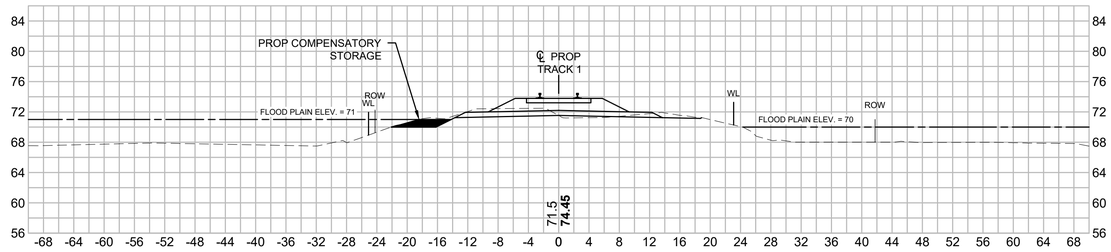
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FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

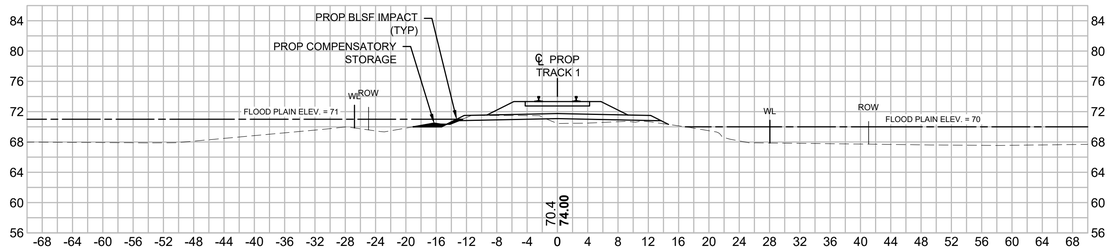
2661+00



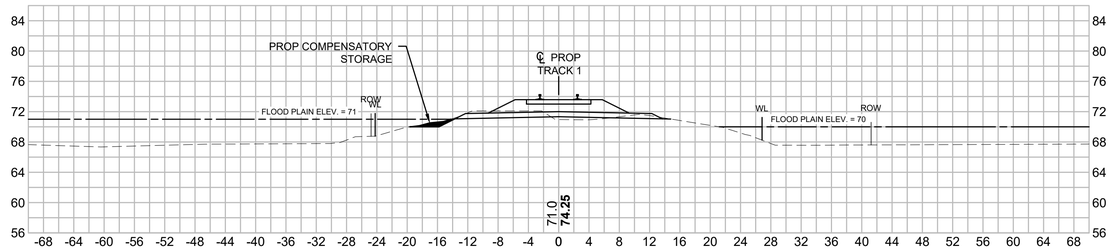
2664+00



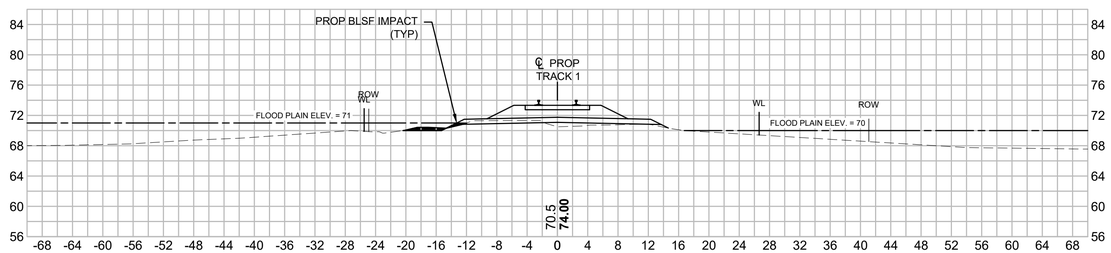
2660+00



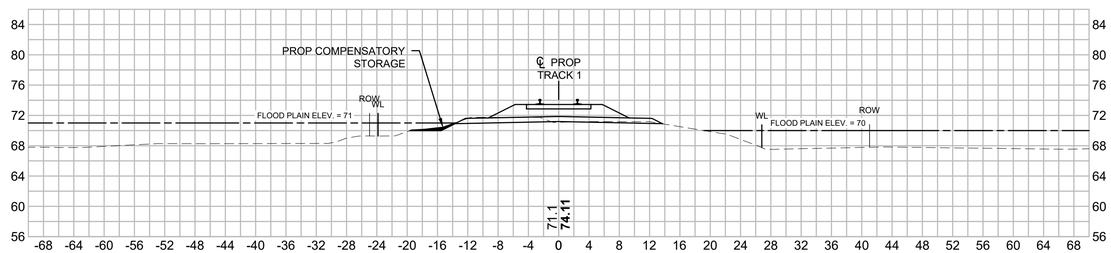
2663+00



2659+00



2662+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 22

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

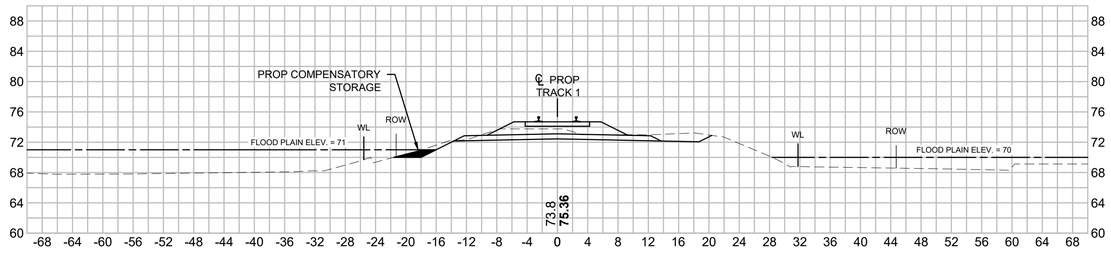
SHEET XS-322

ISSUE

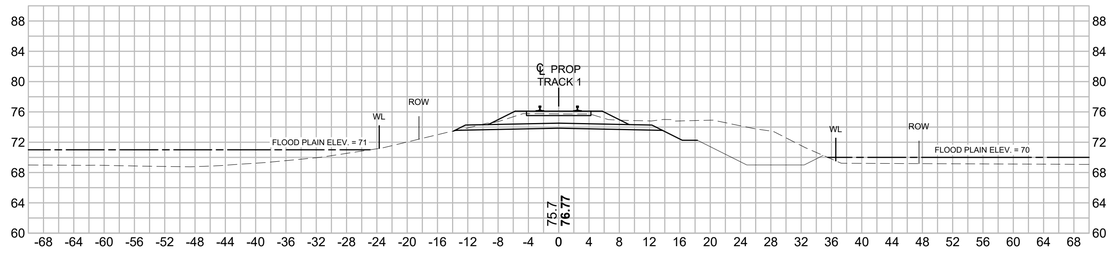
Plotted on: June 6, 2018 10:35 AM

FILE NAME: \\VHBPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

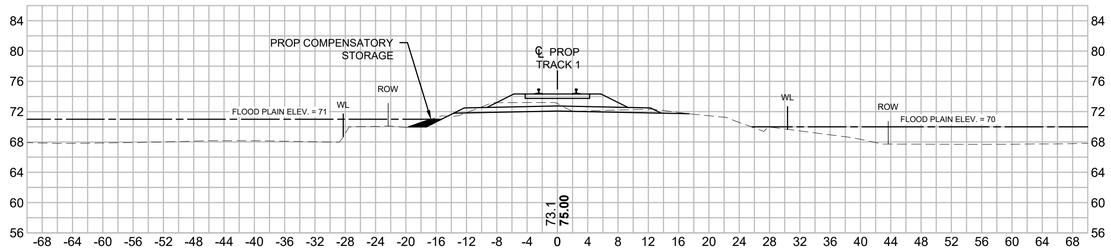
2667+00



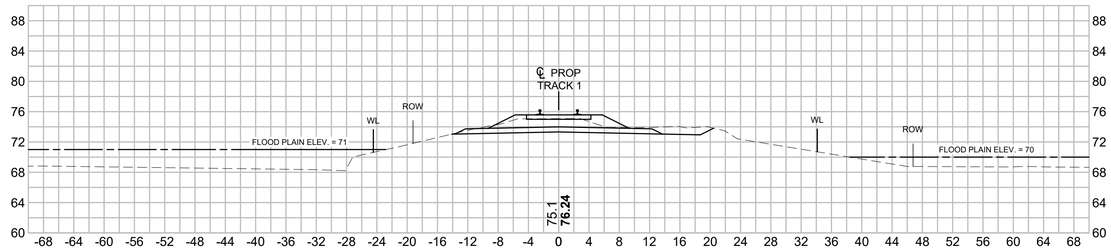
2670+00



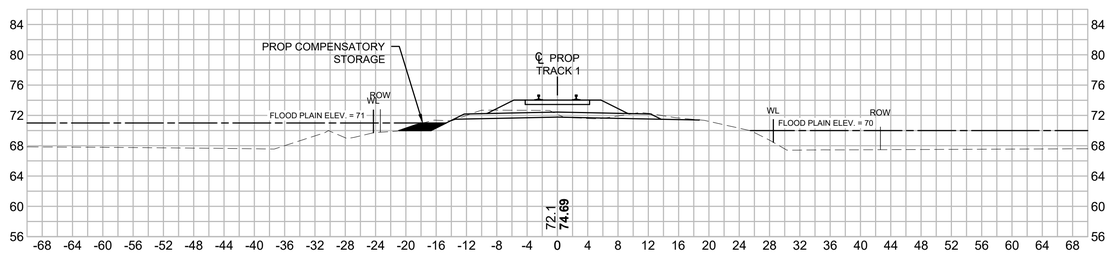
2666+00



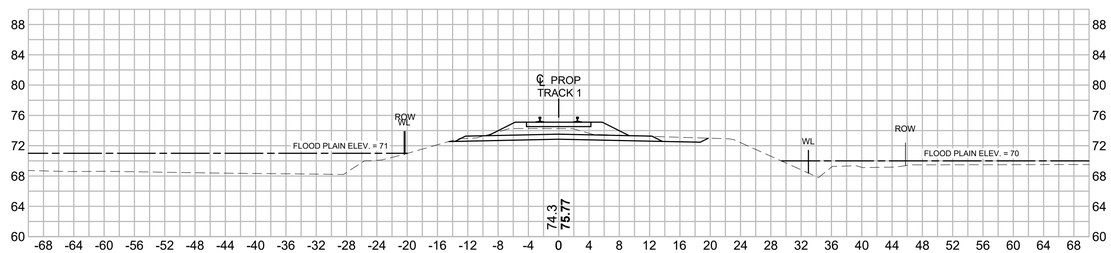
2669+00



2665+00



2668+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 23

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

SHEET XS-323

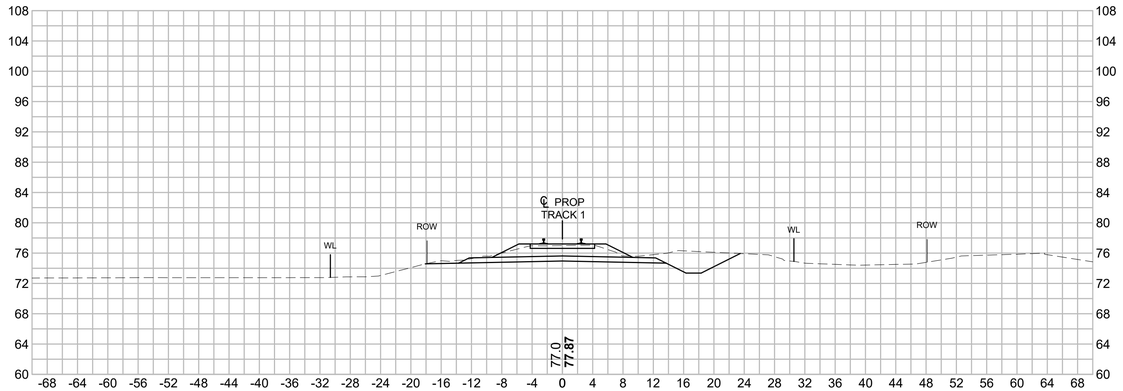
ISSUE

Plotted on: June 6, 2018 10:35 AM

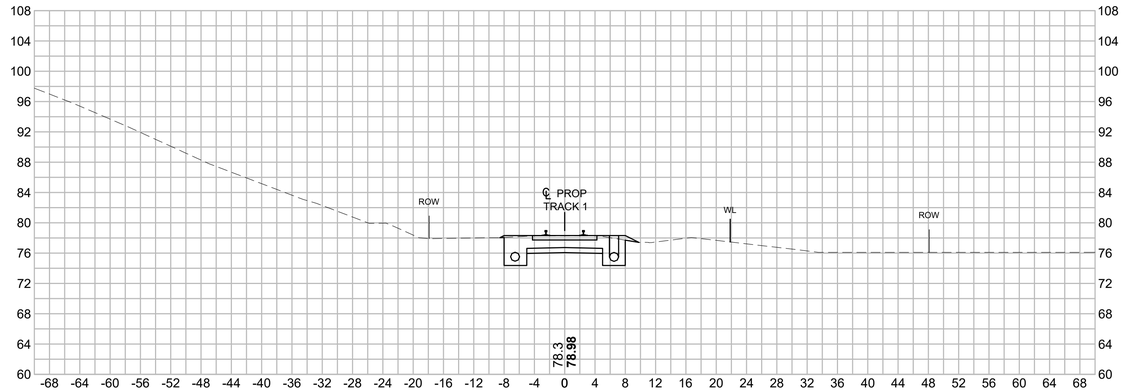
FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

Plotted on June 6, 2018 10:36 AM

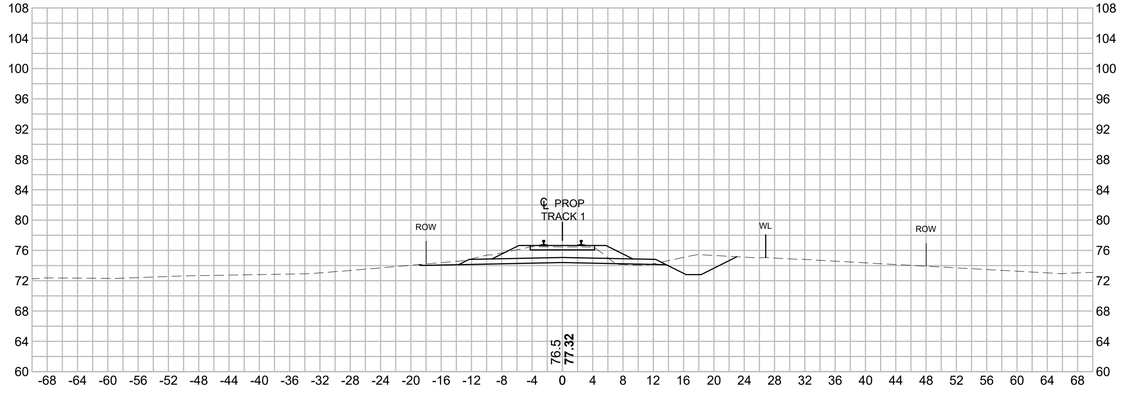
2672+00



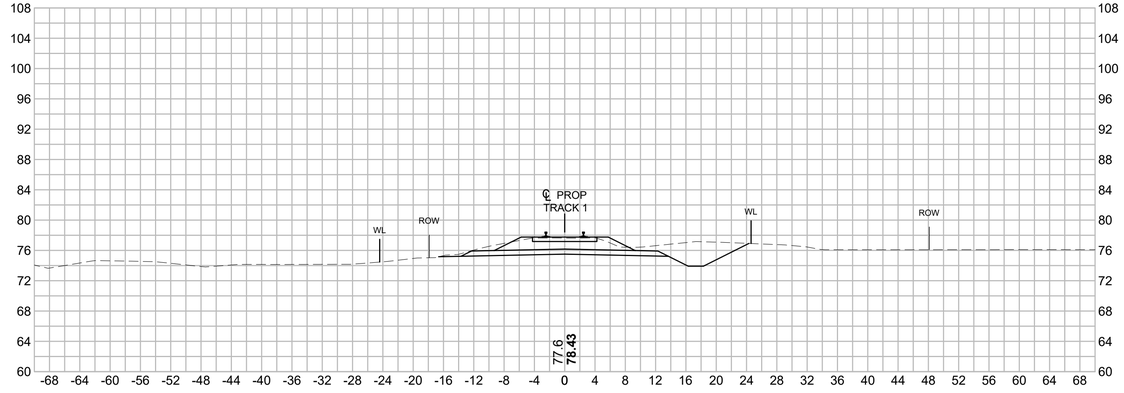
2674+00

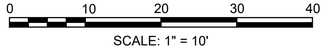


2671+00



2673+00





SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 24

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

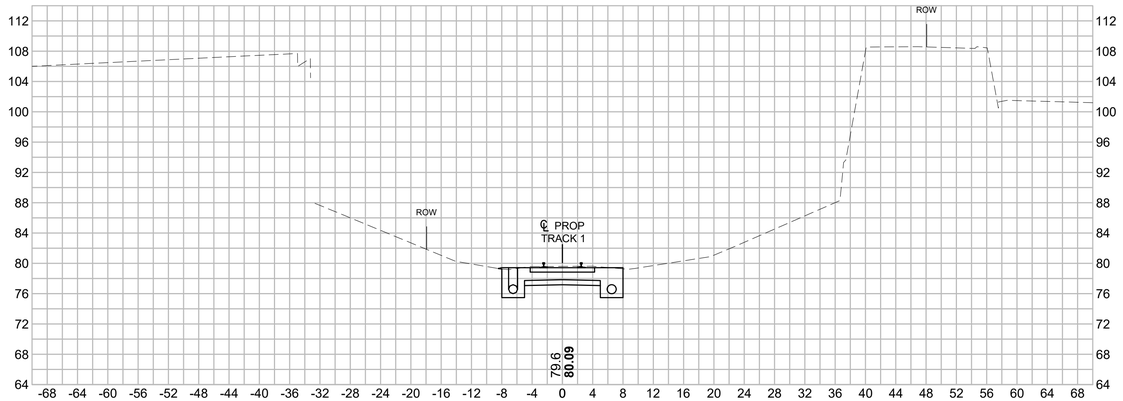
PLAN NO.

SHEET XS-324

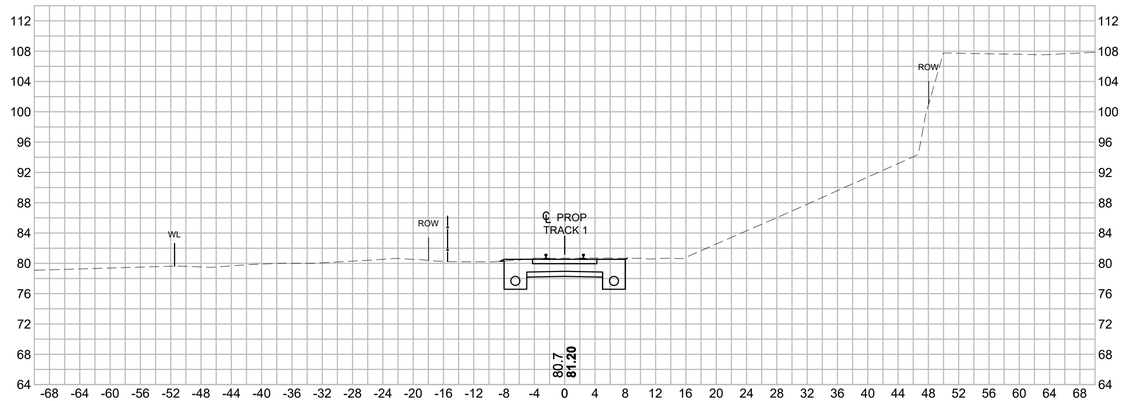
ISSUE

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

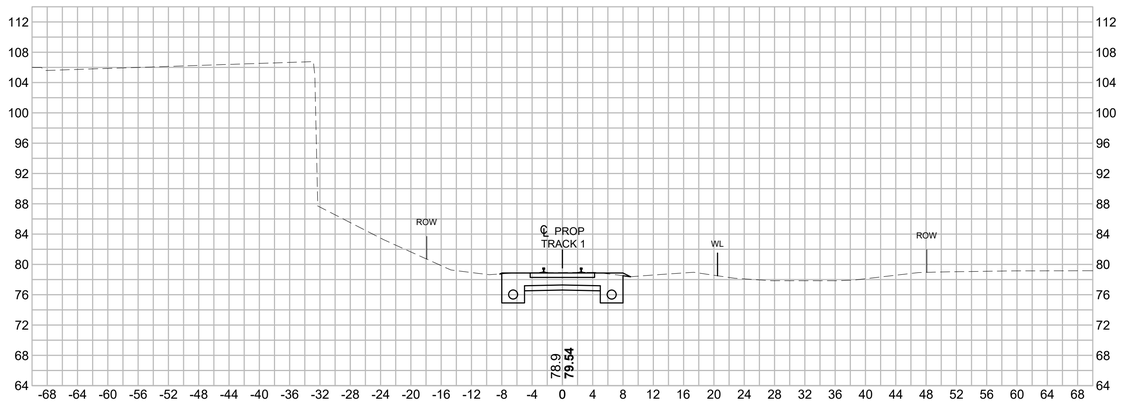
2676+00



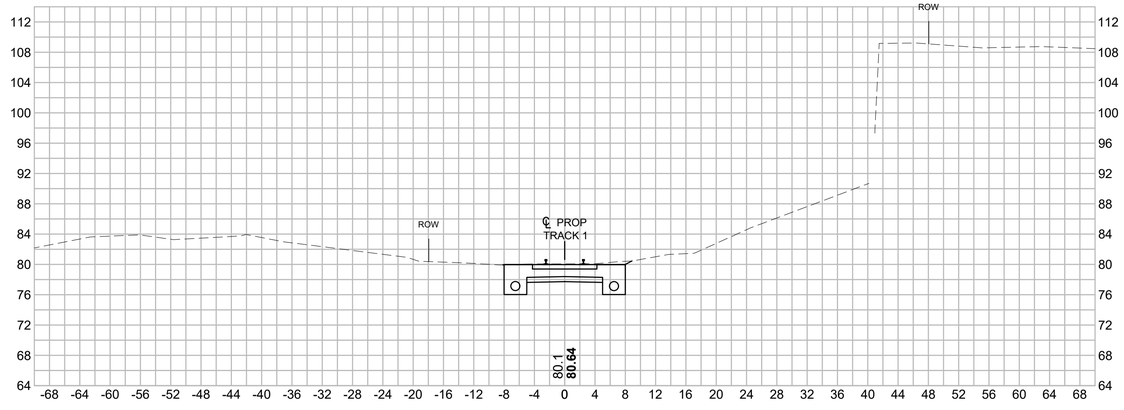
2678+00



2675+00



2677+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 25

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

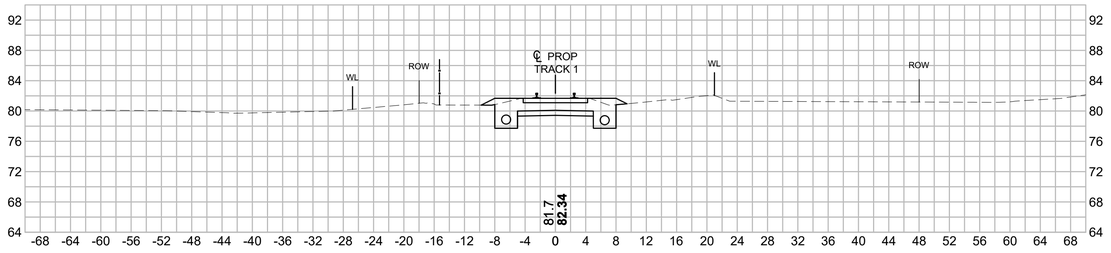
SHEET XS-325

ISSUE

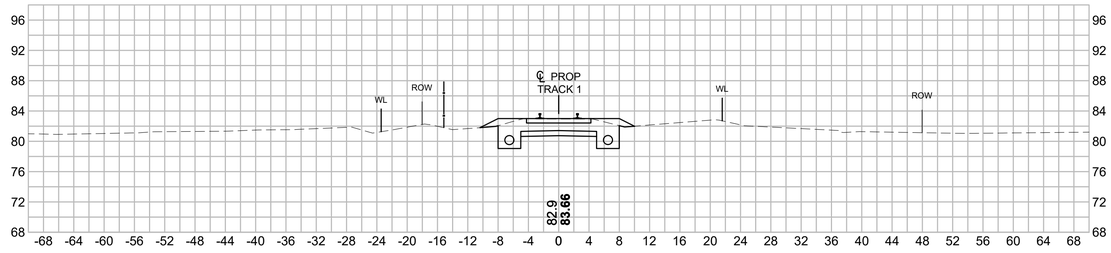
Plotted on: June 6, 2018 10:36 AM

FILE NAME: \\VHBIPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

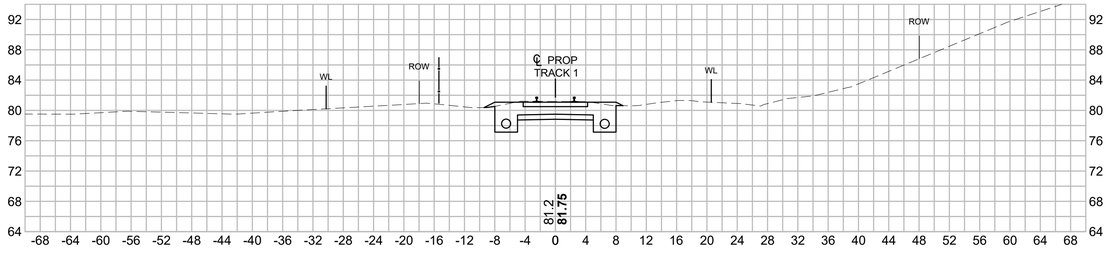
2680+00



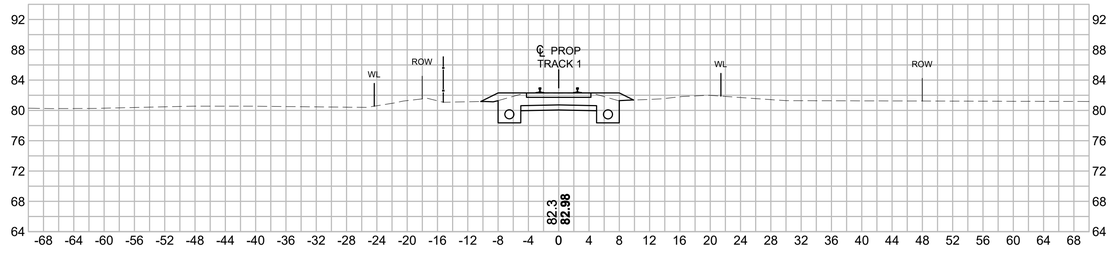
2682+00



2679+00



2681+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 26

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

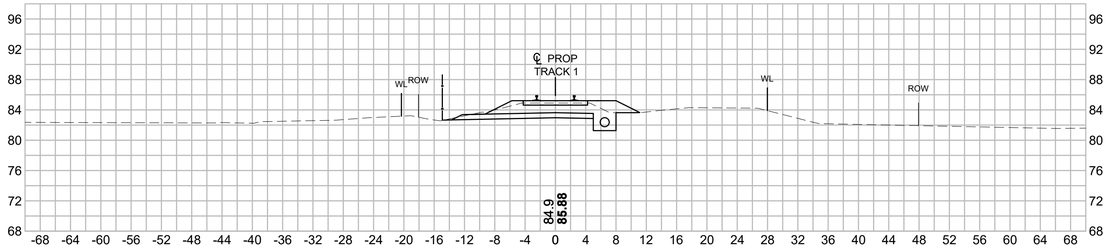
SHEET XS-326

ISSUE

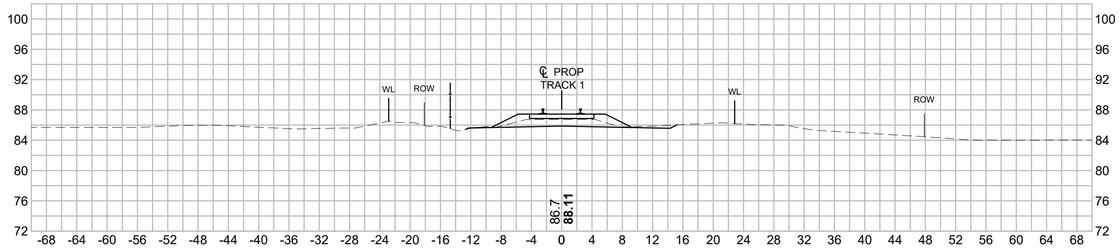
Plotted on: June 6, 2018 10:36 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

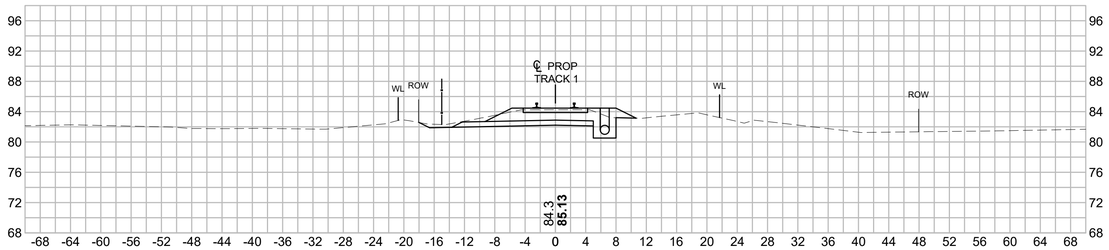
2685+00



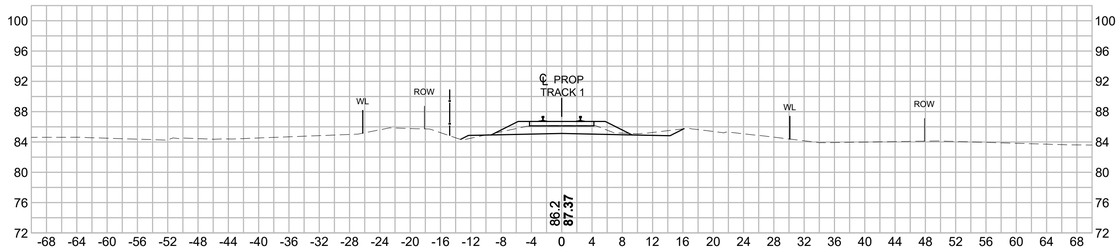
2688+00



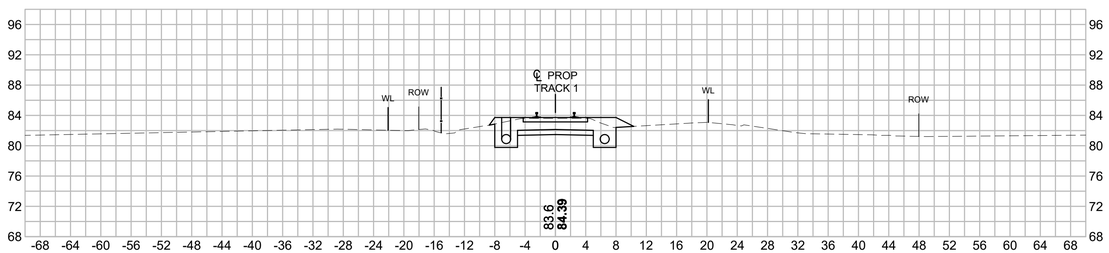
2684+00



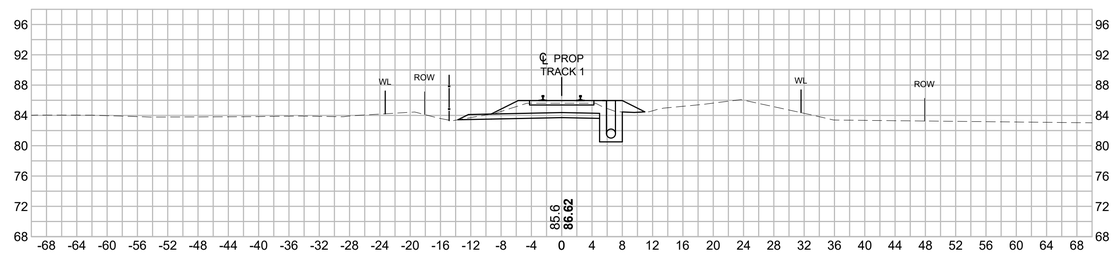
2687+00



2683+00



2686+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 27

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

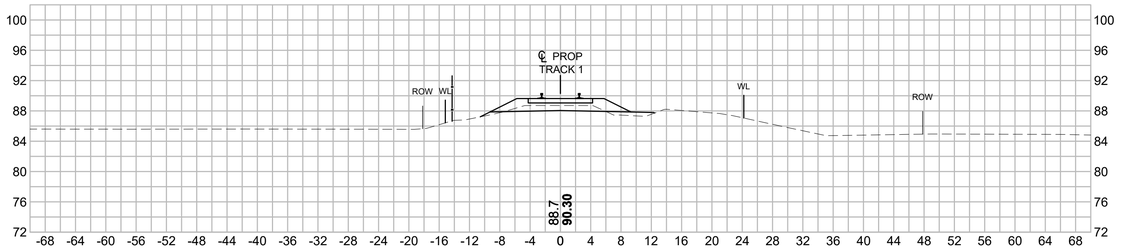
SHEET XS-327

ISSUE

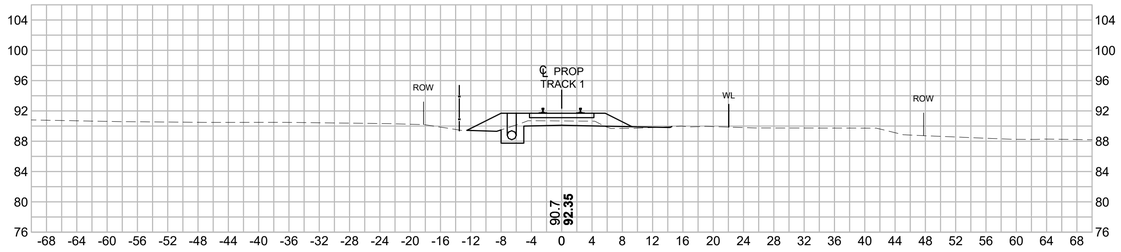
Plotted on: June 6, 2018 10:37 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

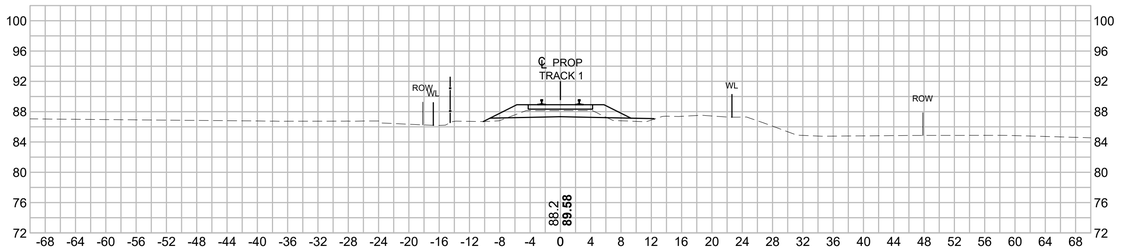
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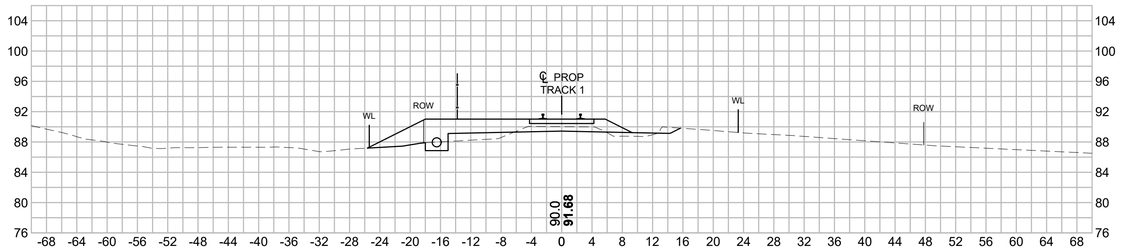
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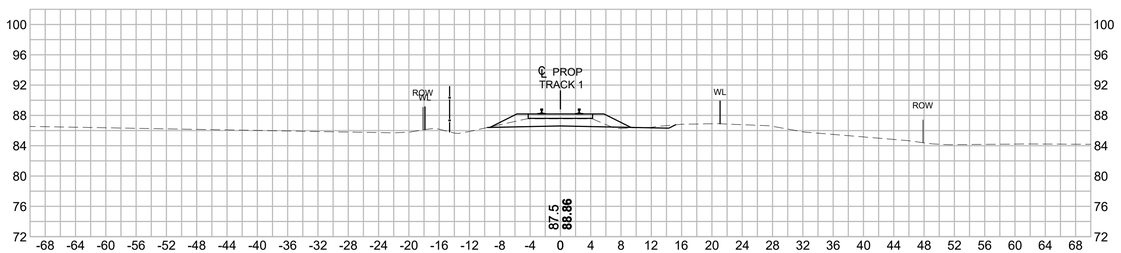
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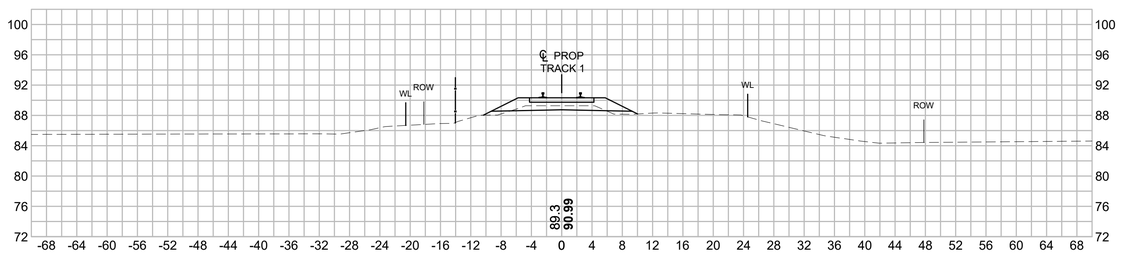
2693+00



2689+00



2692+00





ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 28

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

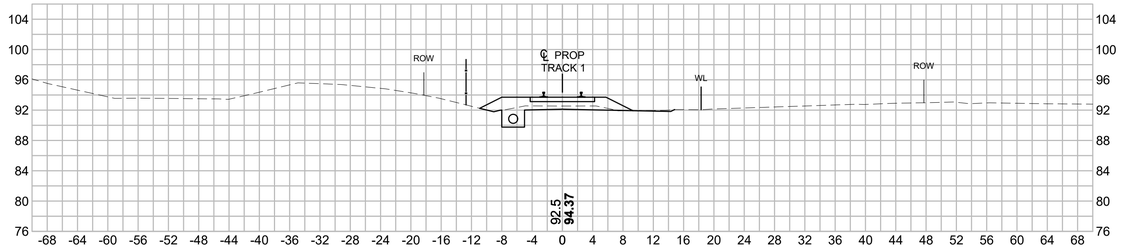
SHEET XS-328

ISSUE

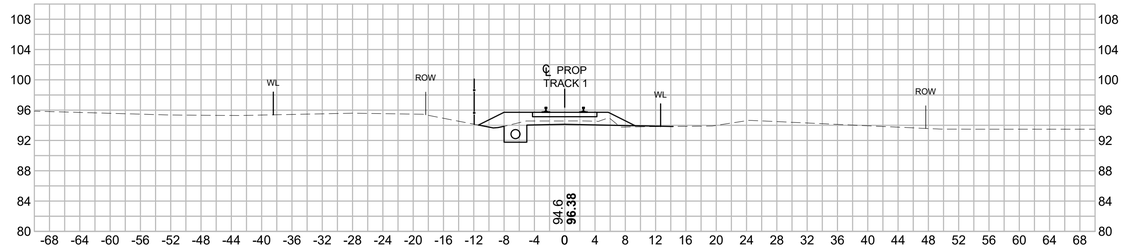
Plotted on: June 6, 2018 10:37 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

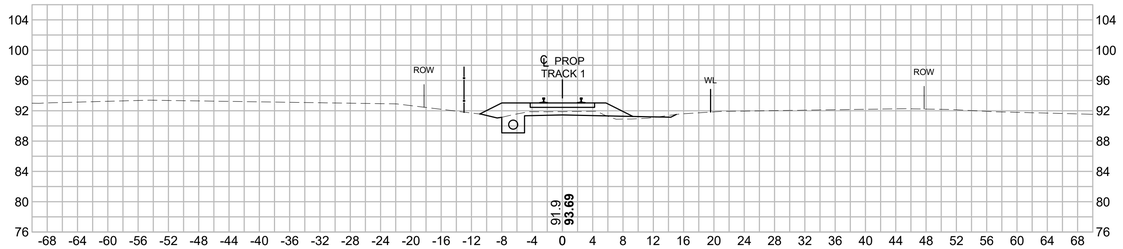
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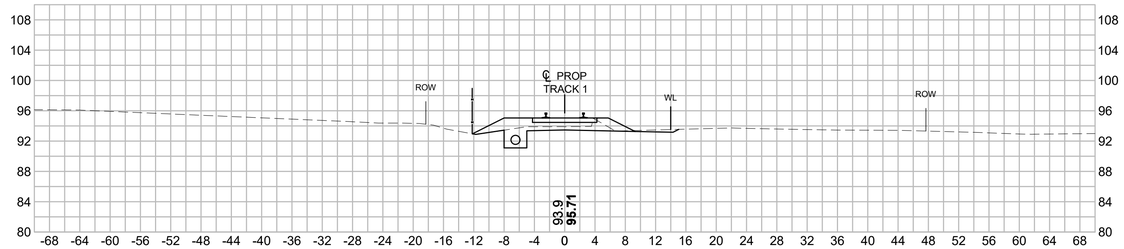
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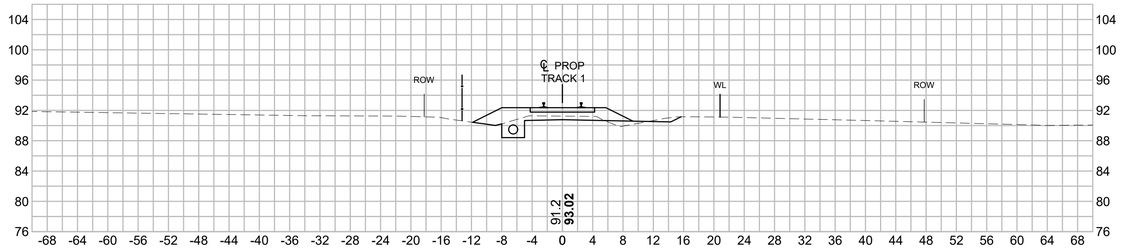
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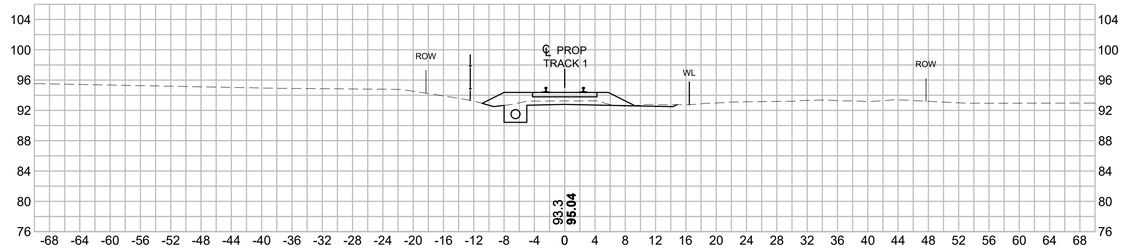
2699+00



2695+00



2698+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 29

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

SHEET XS-329

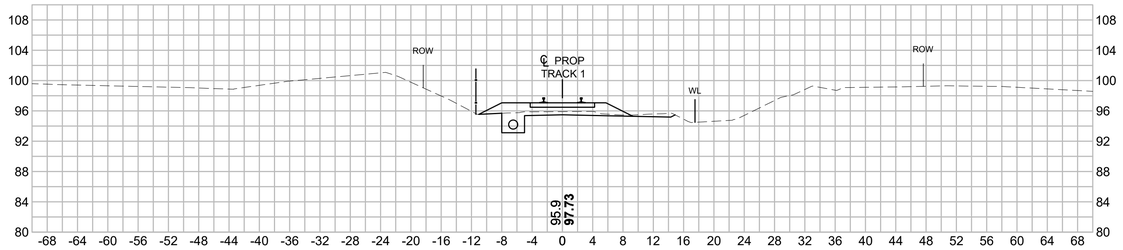
ISSUE

Plotted on: June 6, 2018 10:37 AM

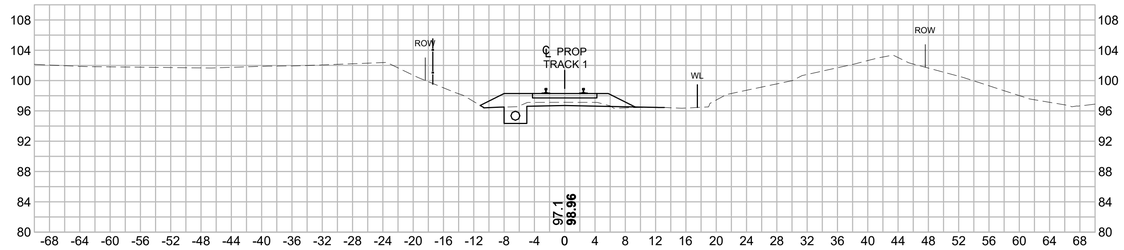
FILE NAME: \\VHBIPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

Plotted on June 6, 2018 10:38 AM

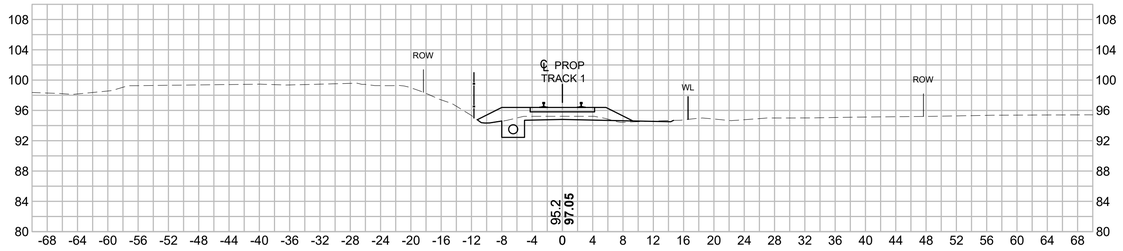
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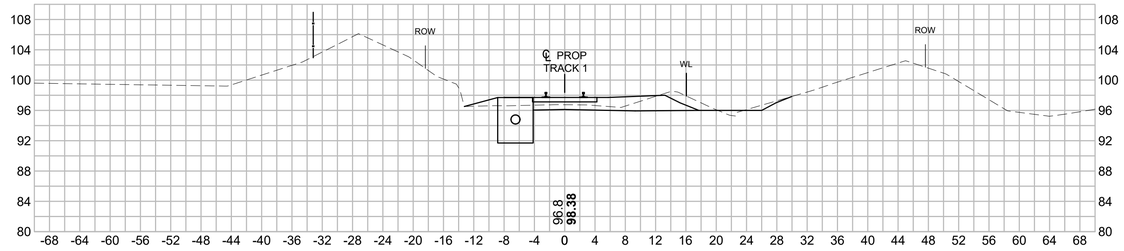
2704+00



2701+00



2703+00



ISSUED FOR NOTICE OF INTENT

0 10 20 30 40

SCALE: 1" = 10'

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 30

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

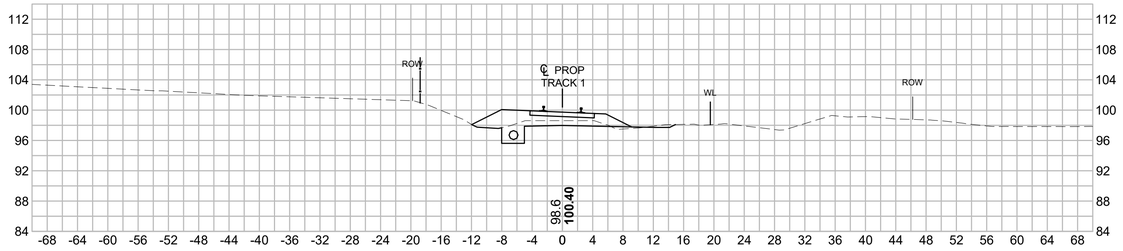
PLAN NO.

SHEET XS-330

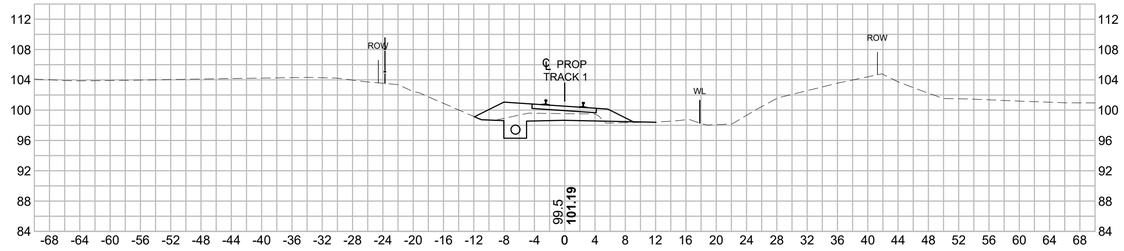
ISSUE

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS4).DWG

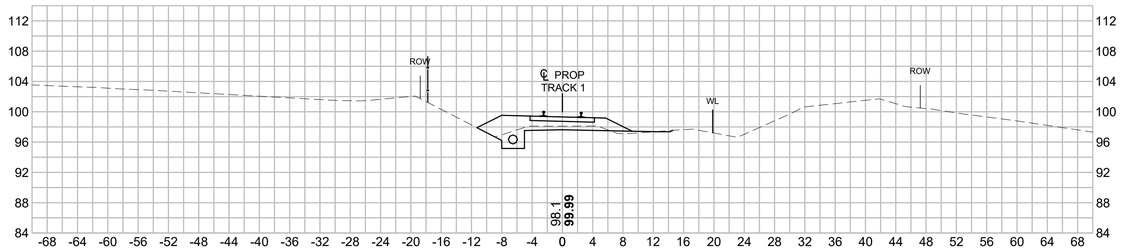
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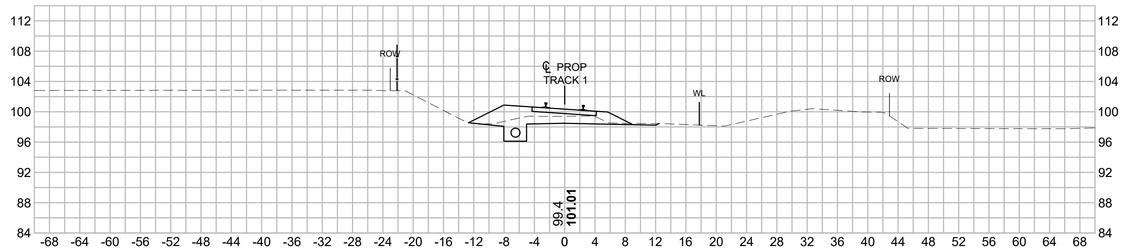
2710+00



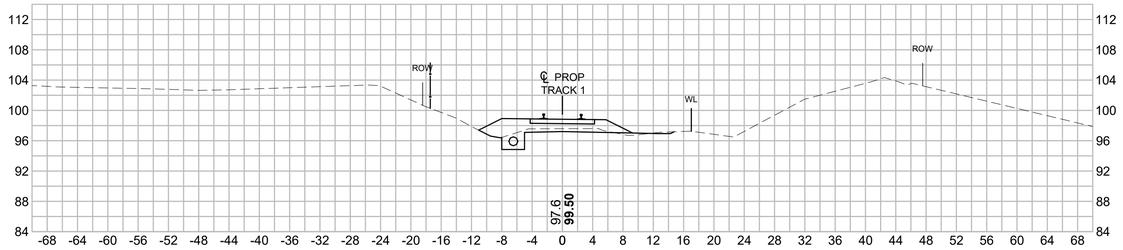
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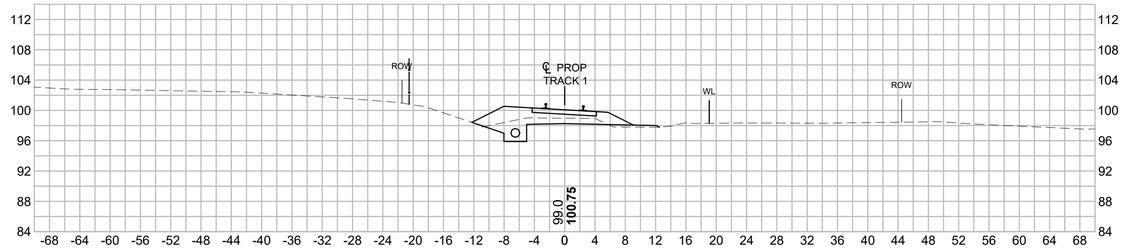
2709+00



2705+00



2708+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 31

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

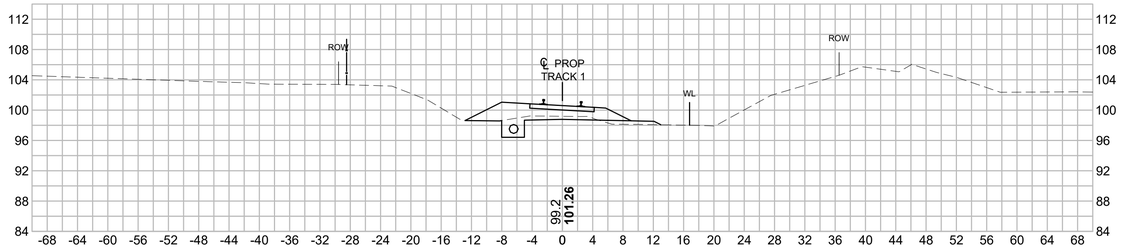
SHEET XS-331

ISSUE

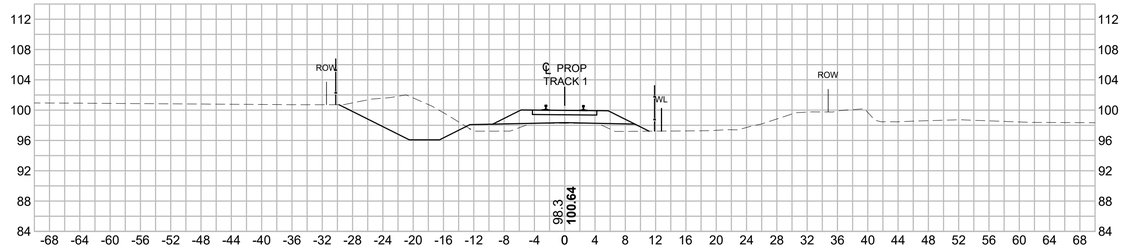
Plotted on: June 6, 2018 10:38 AM

FILE NAME: \\VHBIPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

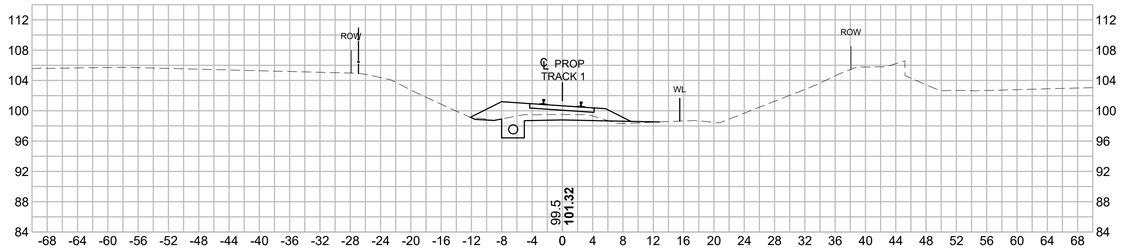
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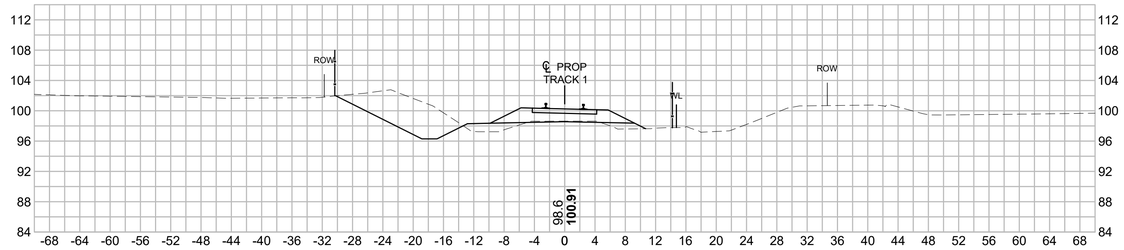
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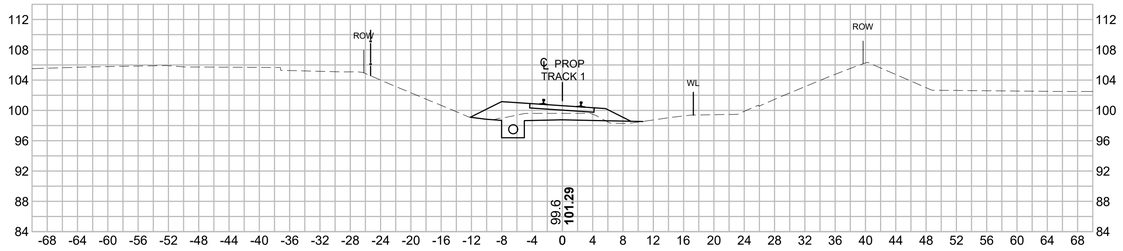
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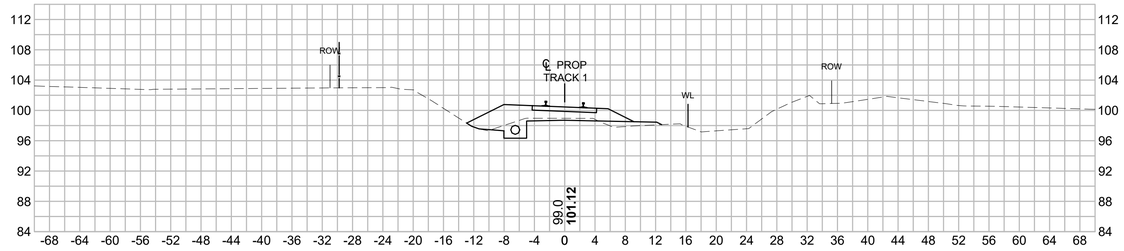
2715+00



2711+00



2714+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 32

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

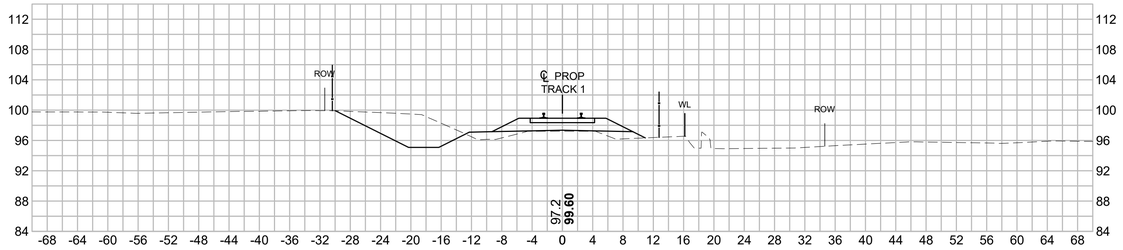
SHEET XS-332

ISSUE

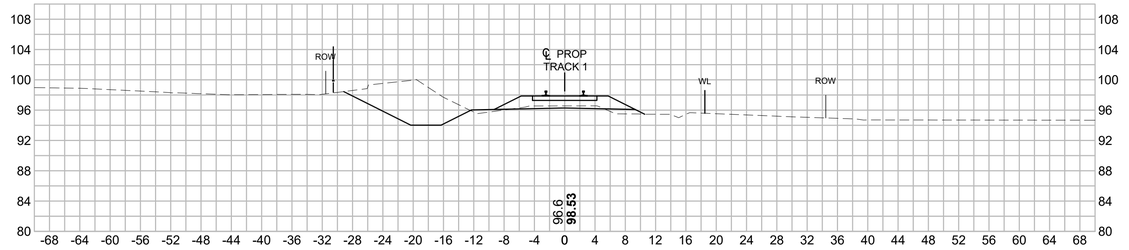
Plotted on: June 6, 2018 10:38 AM

FILE NAME: \\VHBIPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

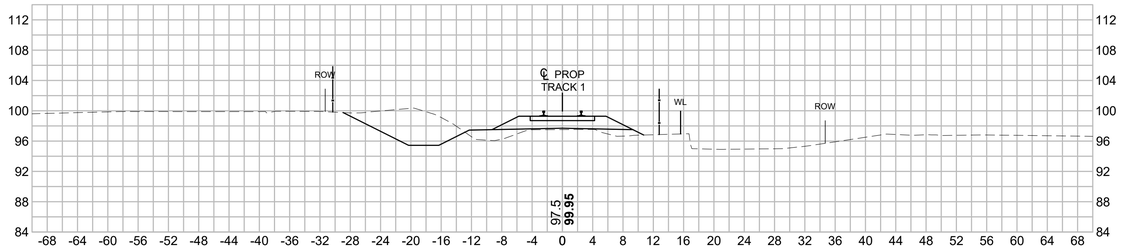
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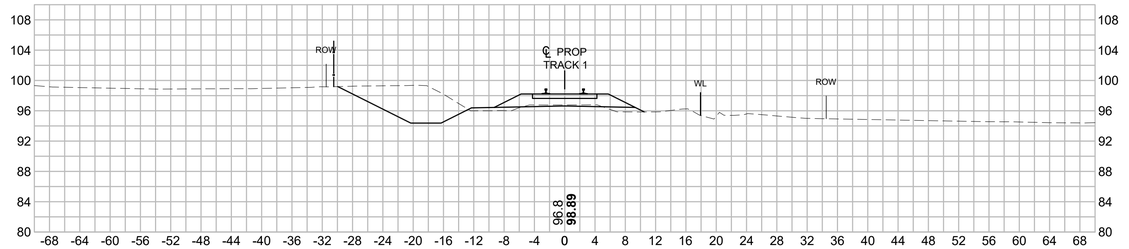
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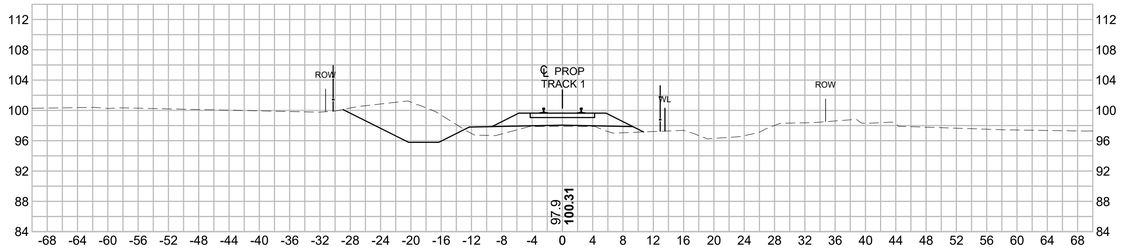
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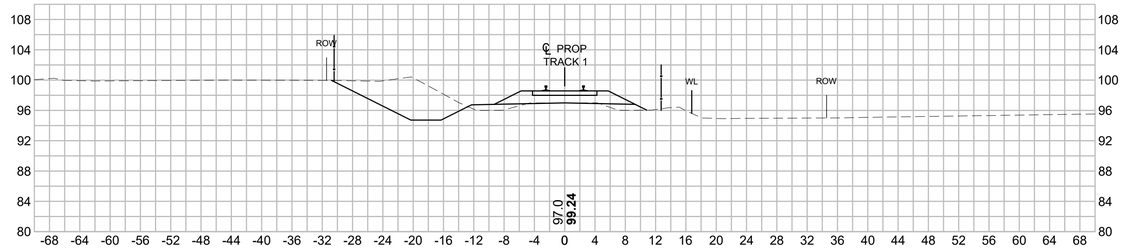
2721+00



2717+00



2720+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 33

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

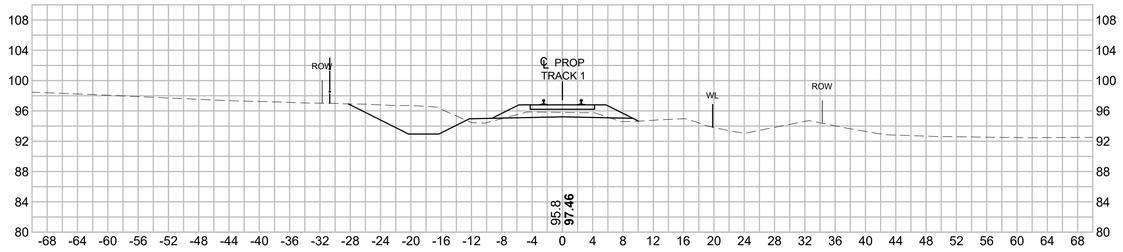
SHEET XS-333

ISSUE

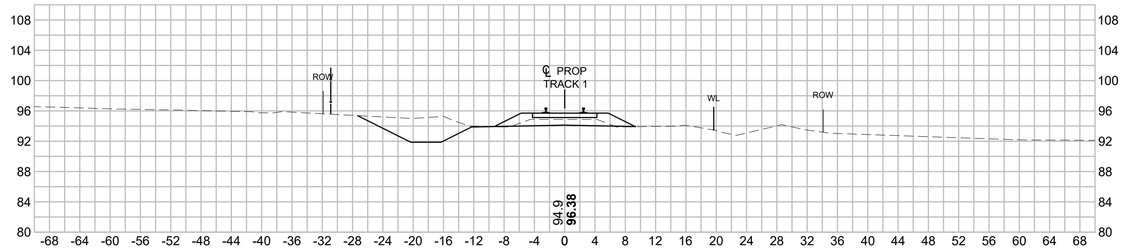
Plotted on: June 6, 2018 10:39 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

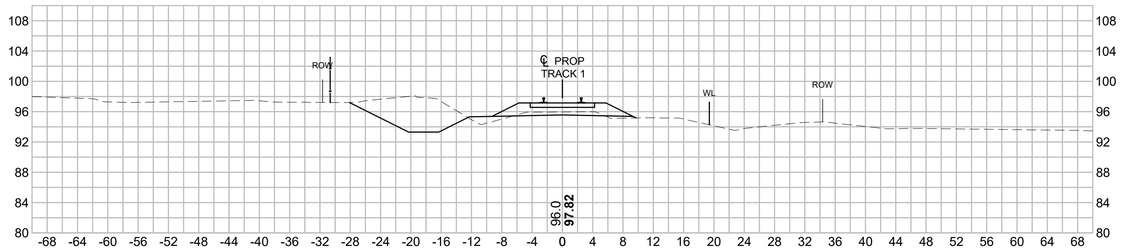
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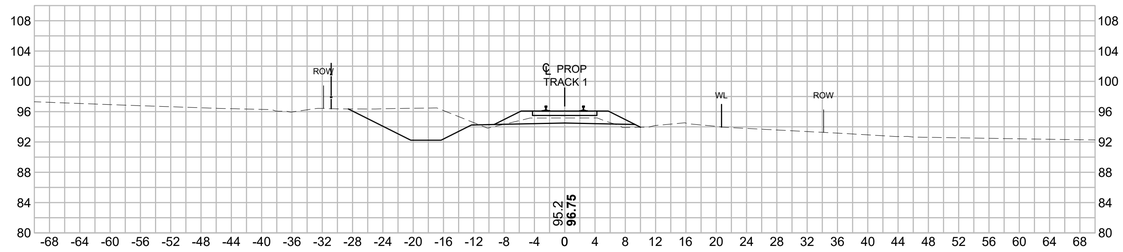
2728+00



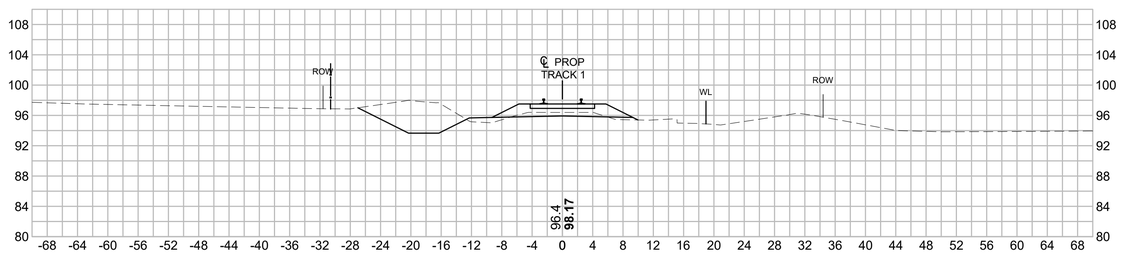
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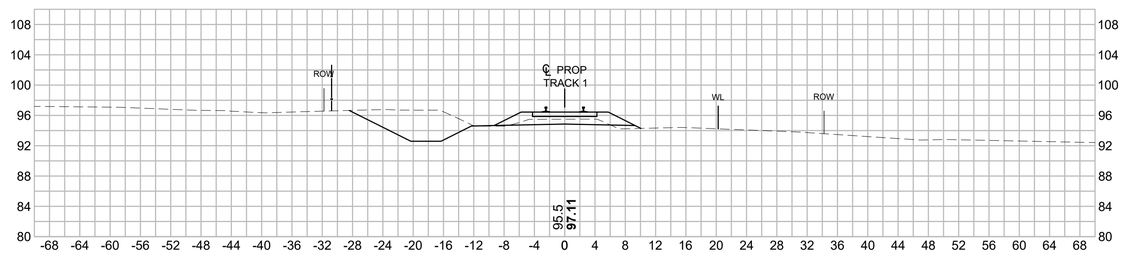
2727+00



2723+00



2726+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 34

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

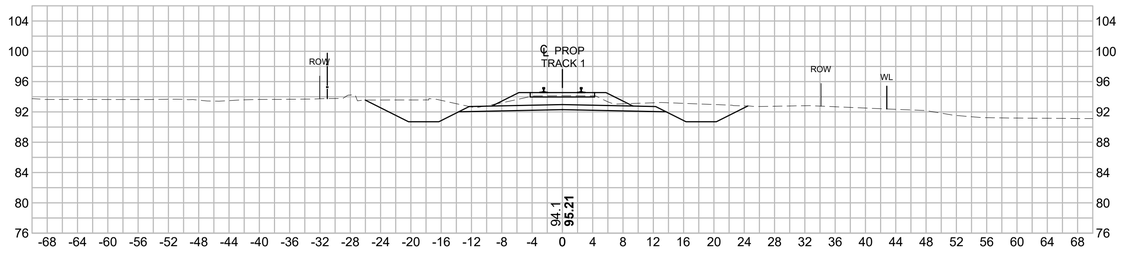
SHEET XS-334

ISSUE

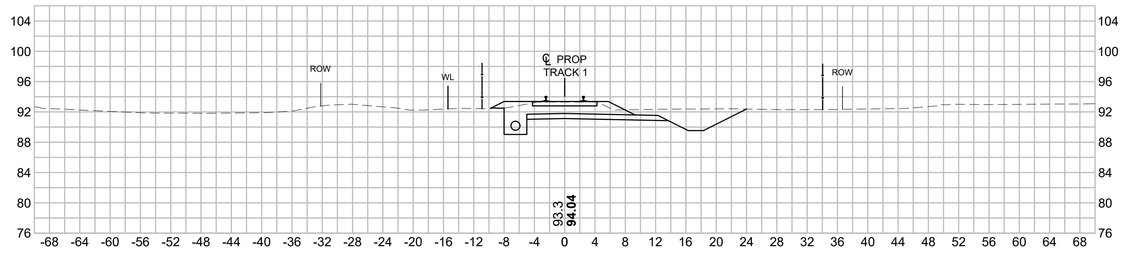
Plotted on: June 6, 2018 10:39 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

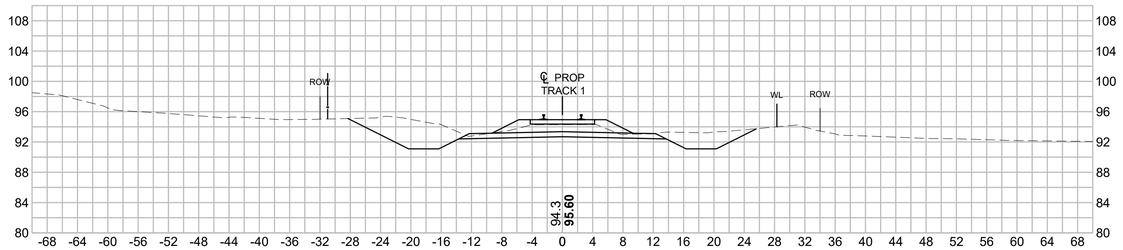
2731+00



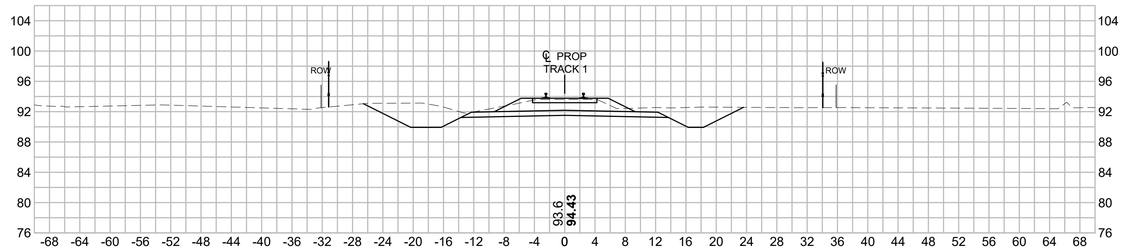
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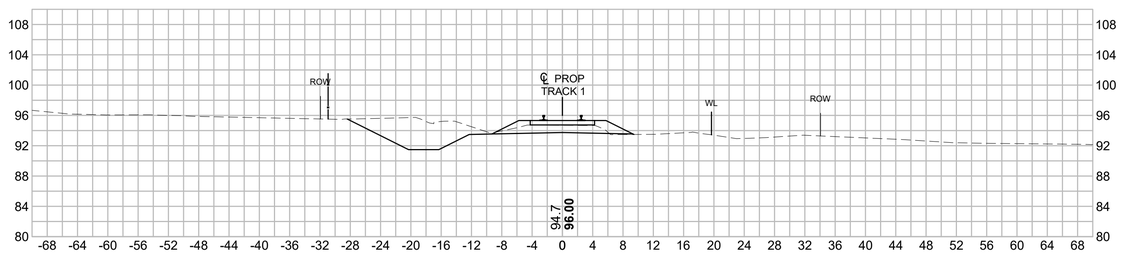
2730+00



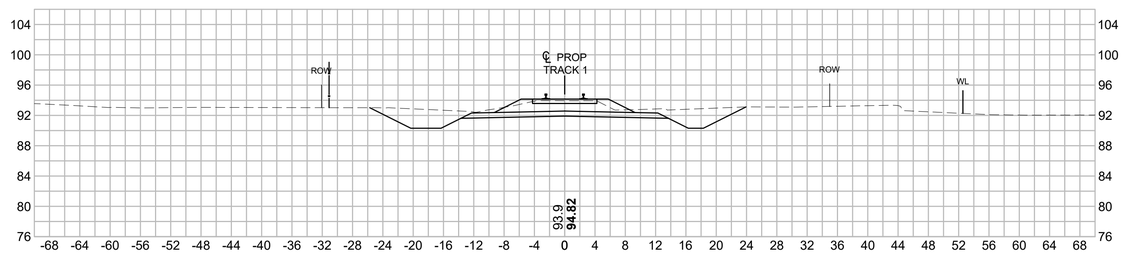
2733+00



2729+00



2732+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 35

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

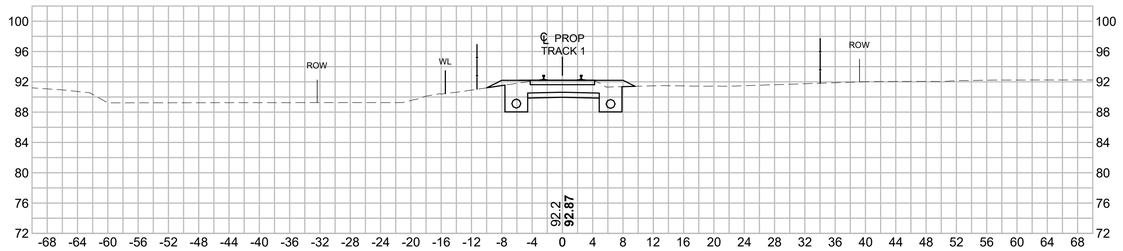
PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY	PLAN NO.	ISSUE
VERT: 1" = 10'	DC	DC	KJC		
DATE: 06/01/2018				SHEET XS-335	

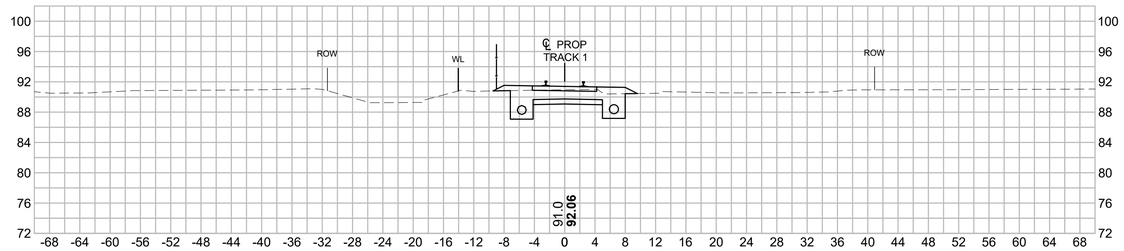
Plotted on: June 6, 2018 10:39 AM

FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

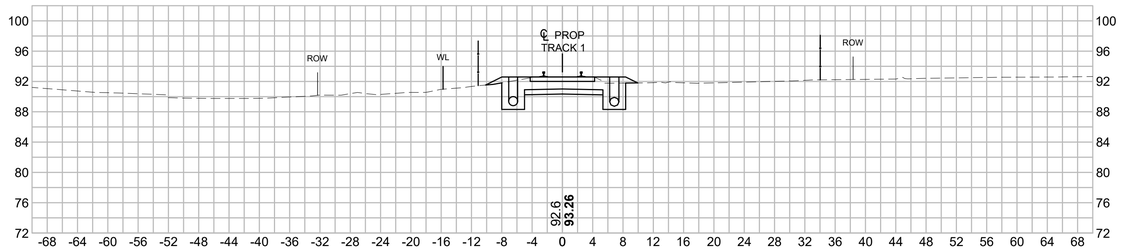
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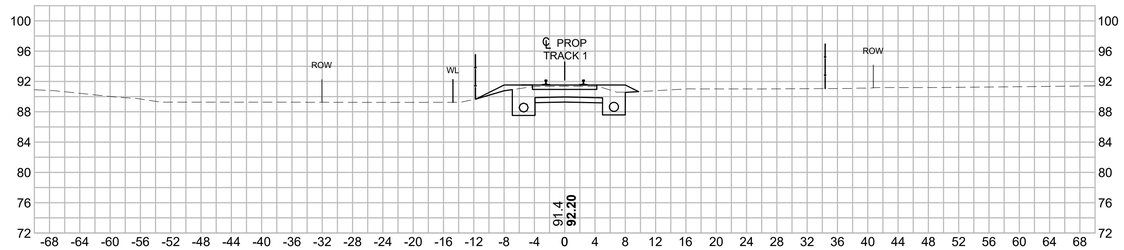
2740+00



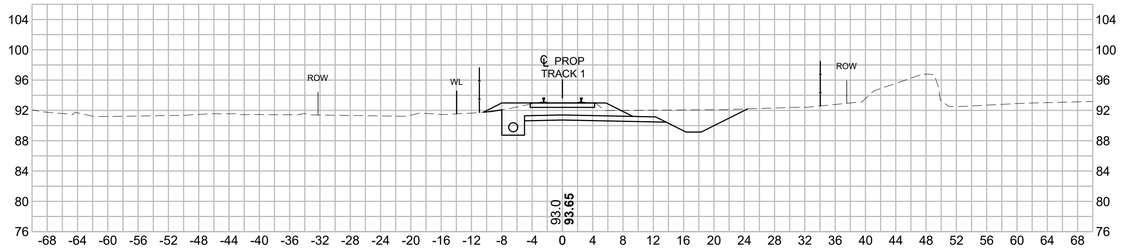
2736+00



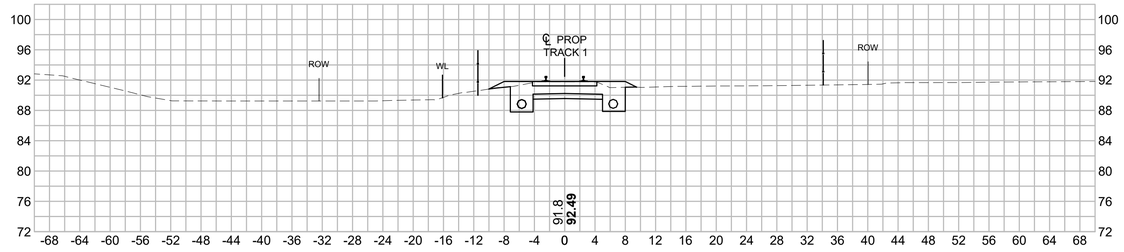
2739+00



2735+00



2738+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 36

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

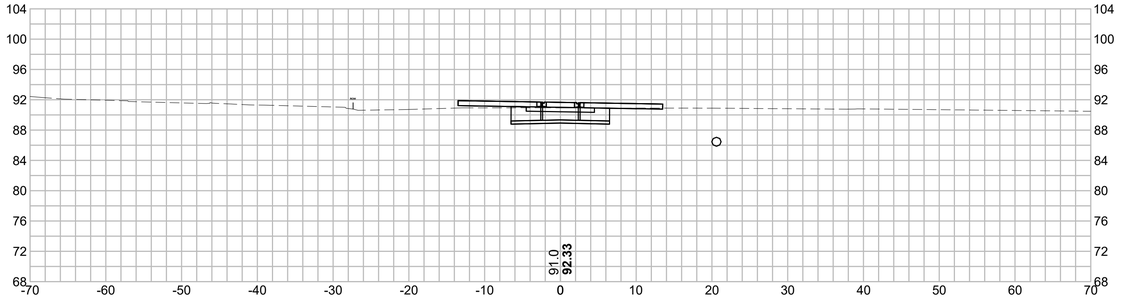
SHEET XS-336

ISSUE

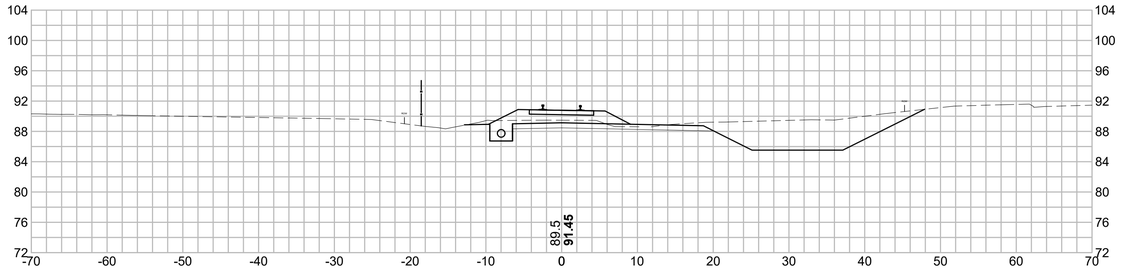
Plotted on: June 6, 2018 10:39 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

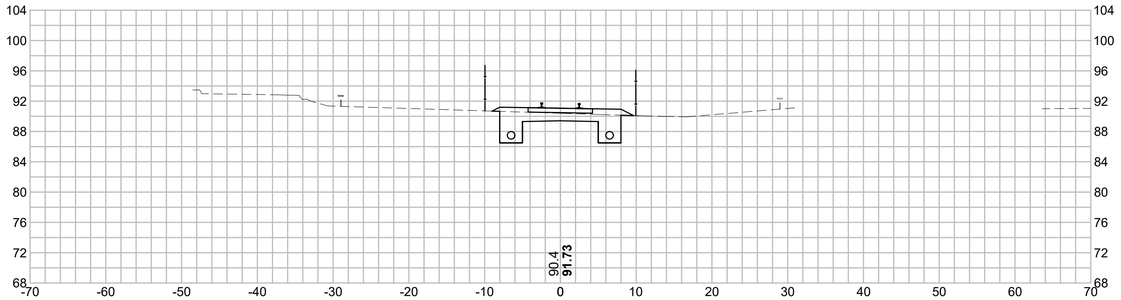
PER CITY OF NEW BEDFORD NOI 2743+00



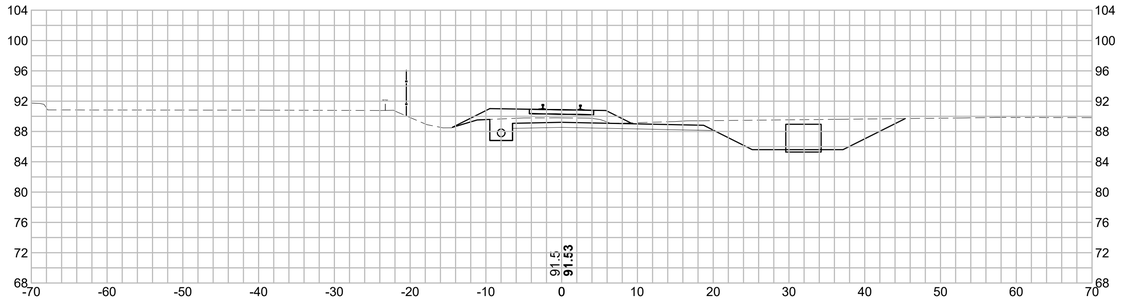
PER CITY OF NEW BEDFORD NOI 2746+00



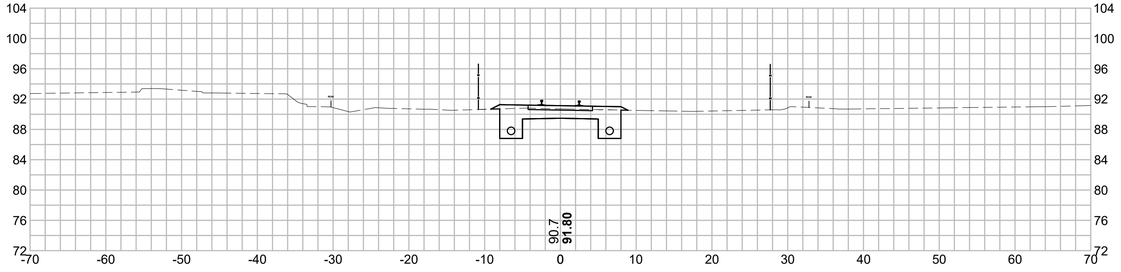
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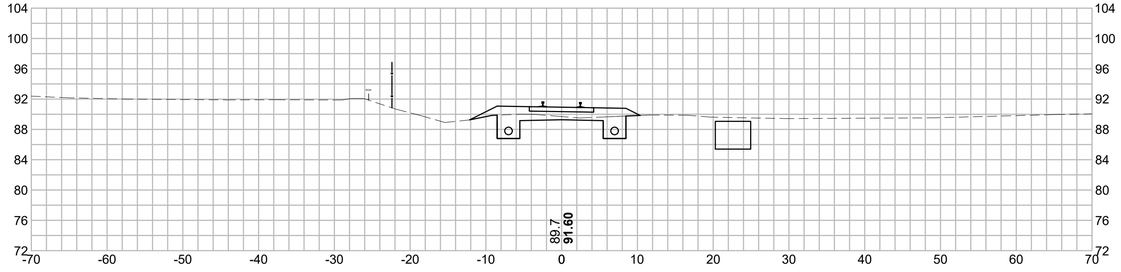
PER CITY OF NEW BEDFORD NOI 2745+00



PER CITY OF NEW BEDFORD NOI 2741+00



PER CITY OF NEW BEDFORD NOI 2744+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 37

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

SHEET XS-337

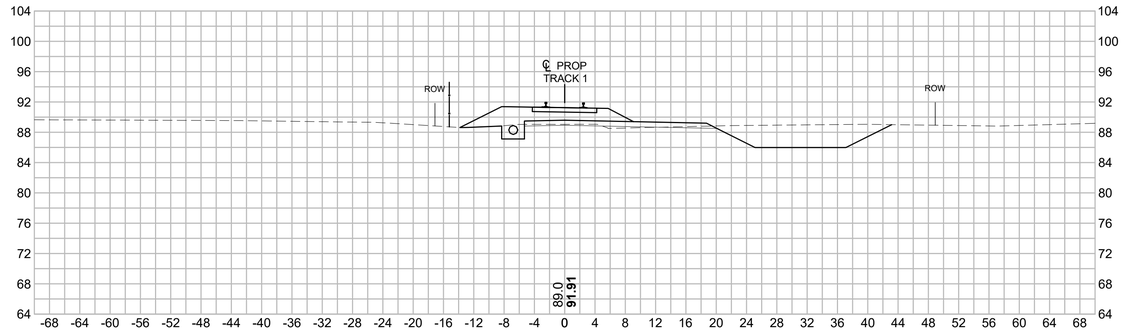
ISSUE

Plotted on: June 6, 2018 10:39 AM

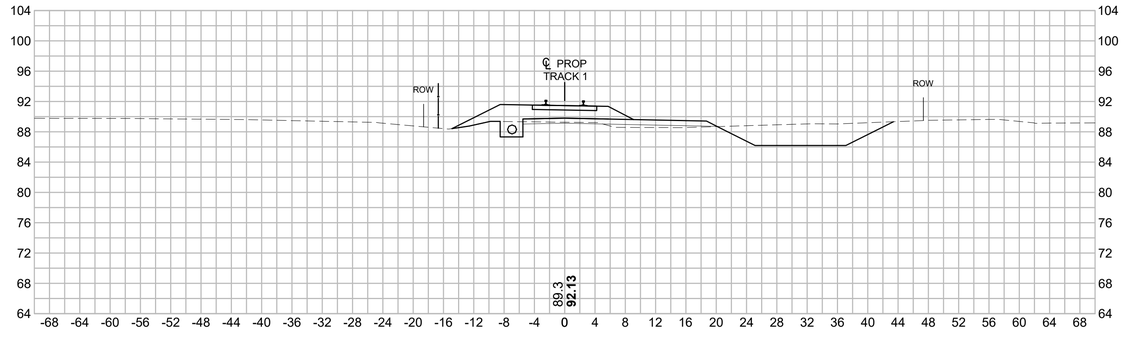
FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

Plotted on June 6, 2018 10:39 AM

2748+00



2747+00



ISSUED FOR NOTICE OF INTENT

0 10 20 30 40

SCALE: 1" = 10'

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 38

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

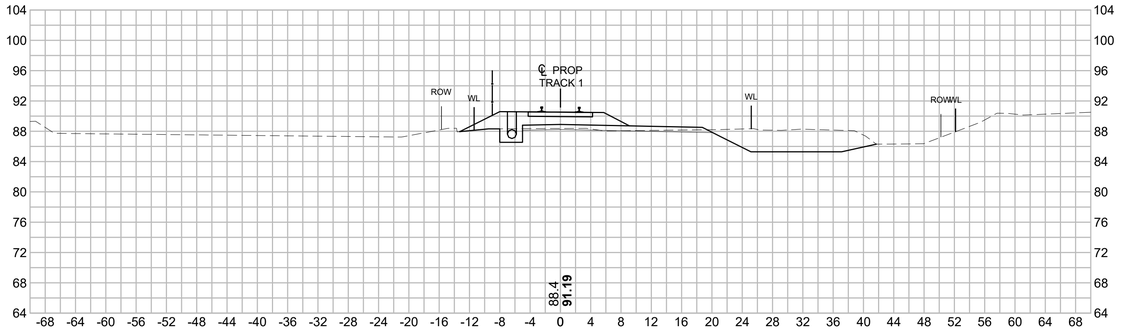
PLAN NO.

SHEET XS-338

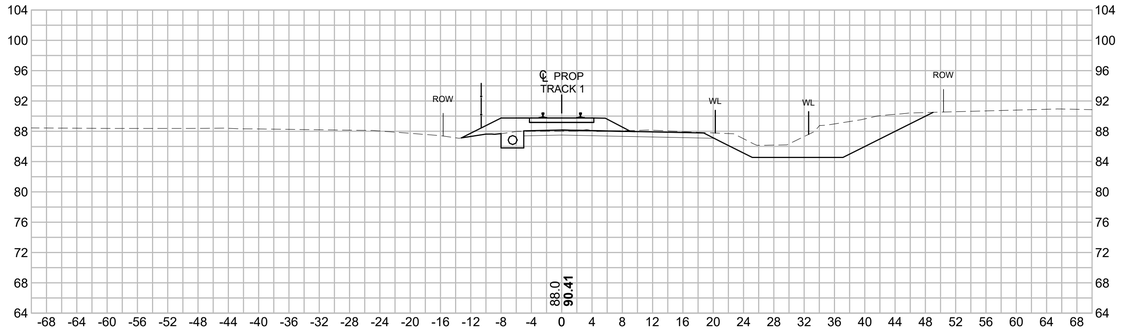
ISSUE

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

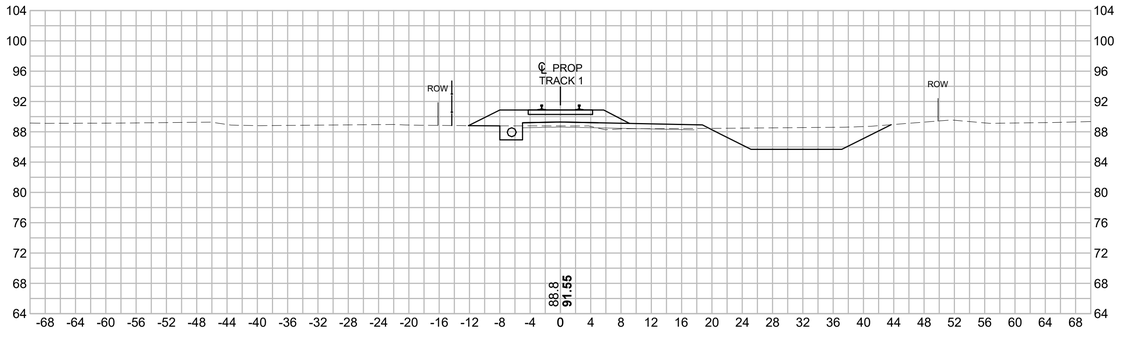
2750+00



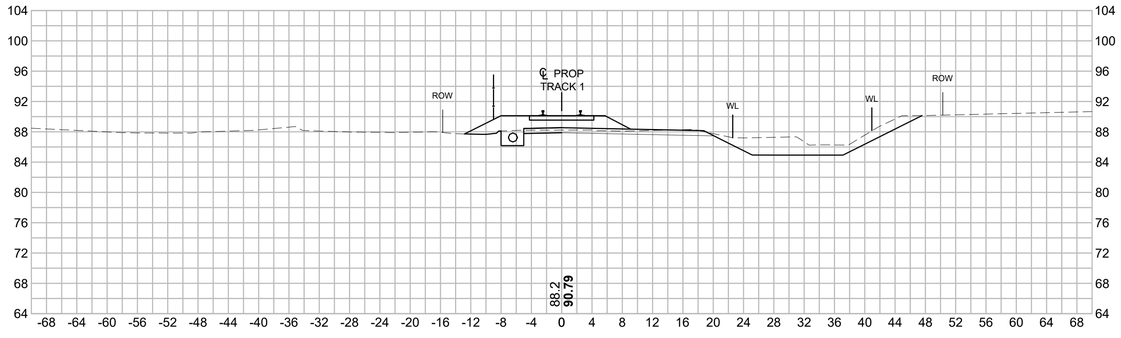
2752+00



2749+00



2751+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 39

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

SHEET XS-339

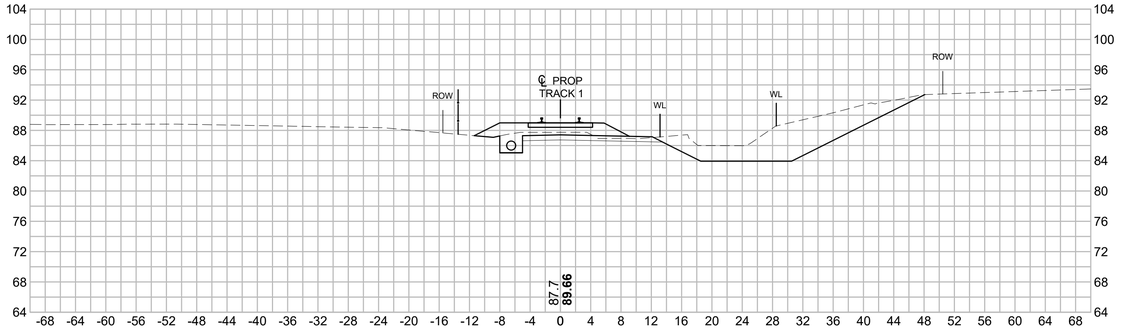
ISSUE

Plotted on June 6, 2018 10:40 AM

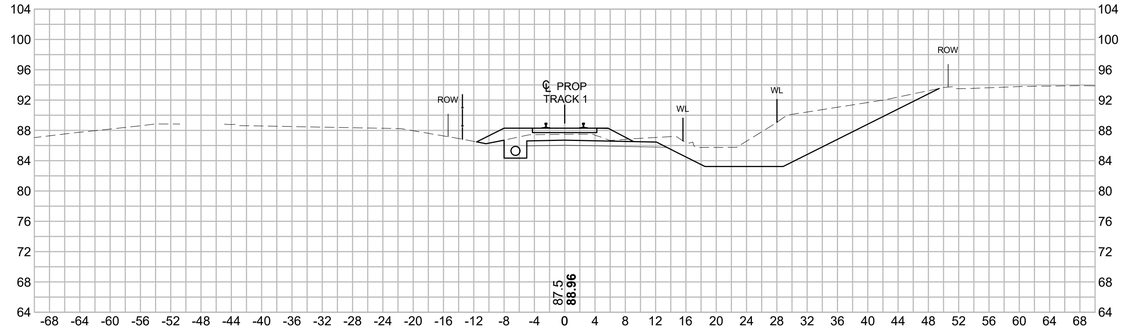
FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

Plotted on June 6, 2018 10:40 AM

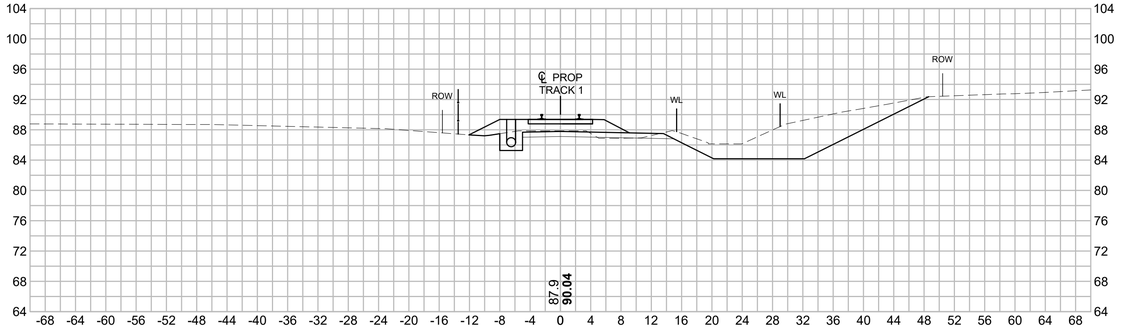
2754+00



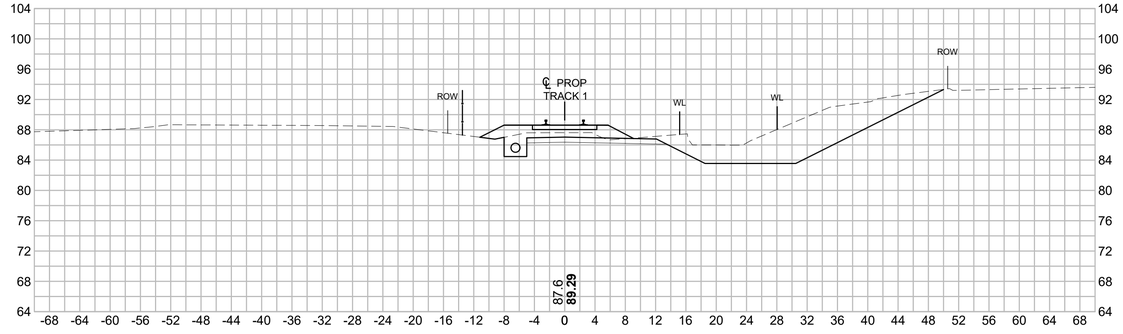
2756+00



2753+00



2755+00



ISSUED FOR NOTICE OF INTENT

0 10 20 30 40

SCALE: 1" = 10'

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 40

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

SHEET XS-340

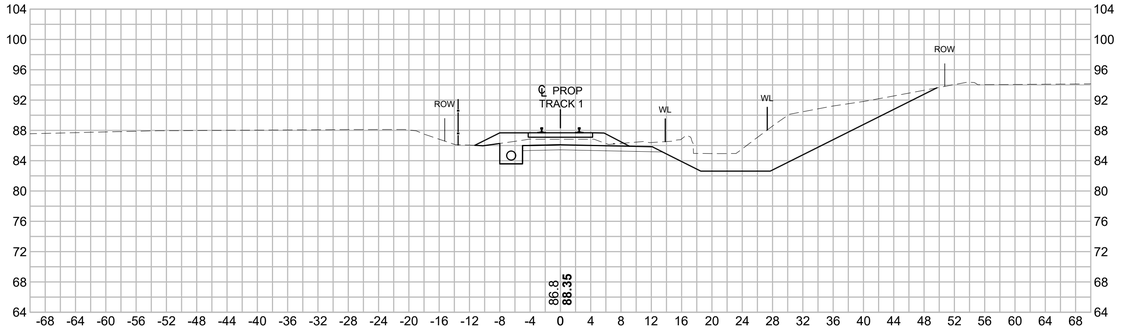
ISSUE

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS5).DWG

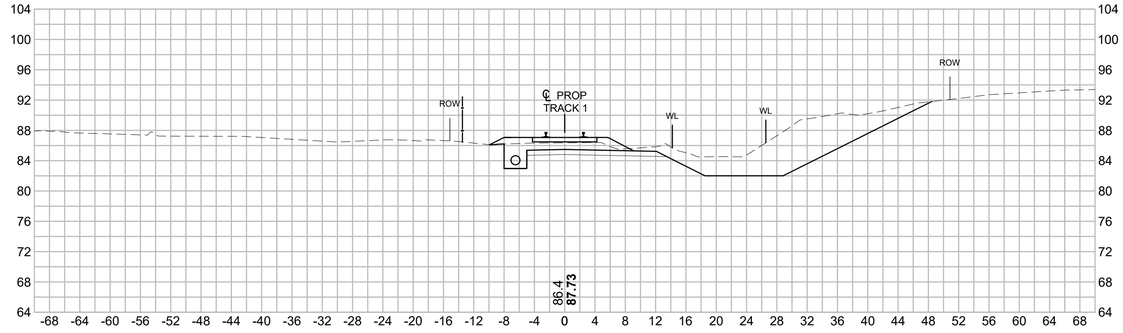
Plotted on June 6, 2018 10:52 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

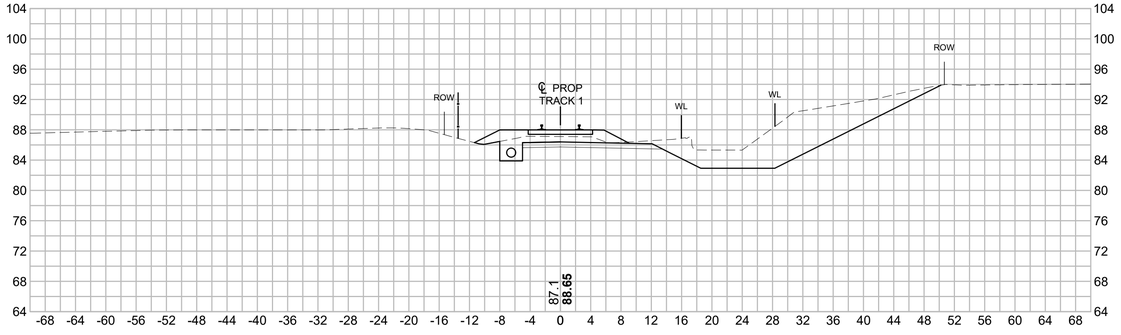
2758+00



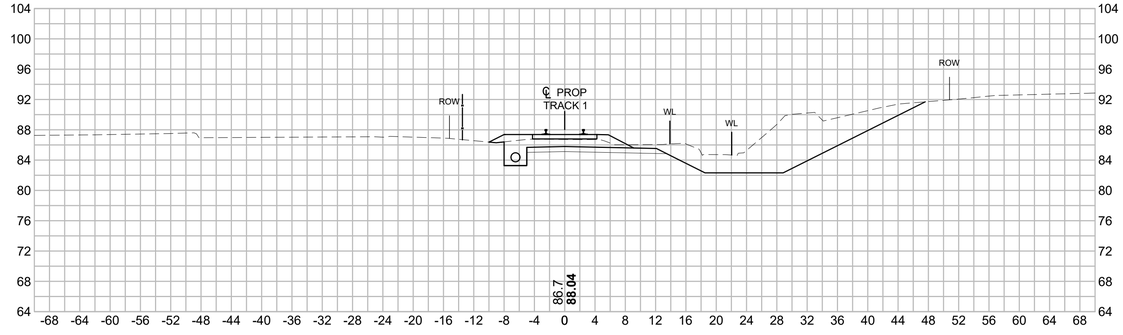
2760+00



2757+00



2759+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 41

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

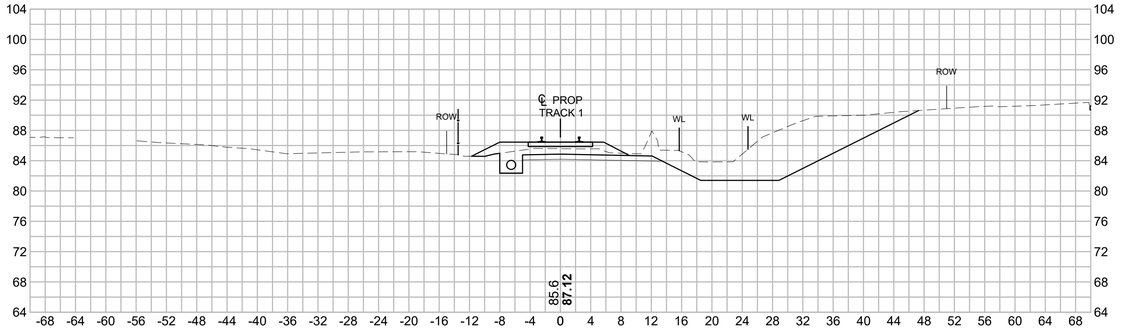
PLAN NO.

SHEET XS-341

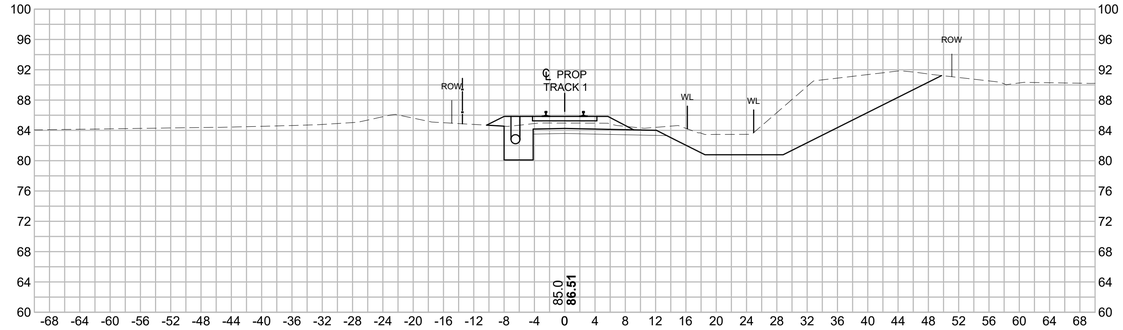
ISSUE

Plotted on June 6, 2018 10:53 AM

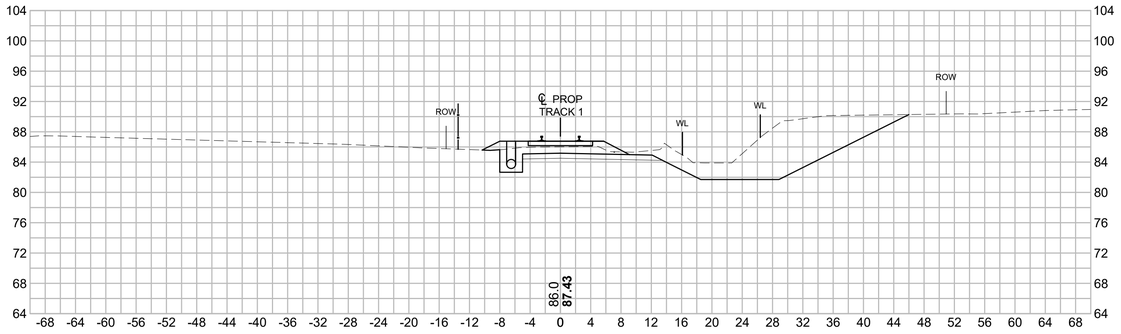
2762+00



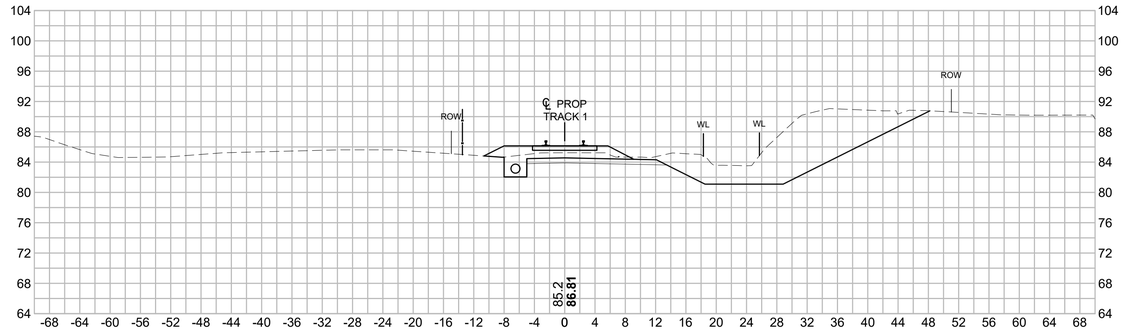
2764+00



2761+00



2763+00



ISSUED FOR NOTICE OF INTENT

0 10 20 30 40

SCALE: 1" = 10'

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 42

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

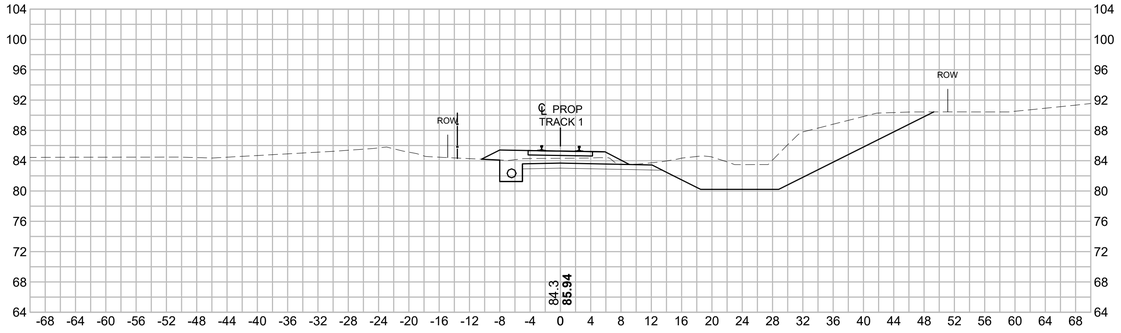
SHEET XS-342

ISSUE

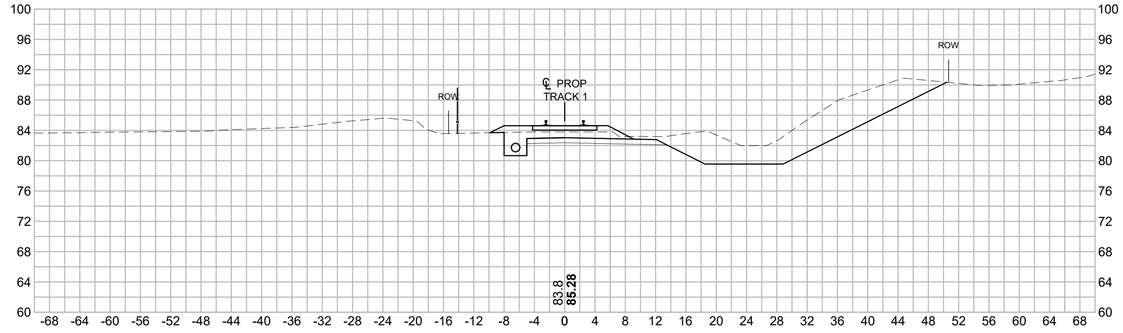
FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

Plotted on: June 6, 2018 10:54 AM

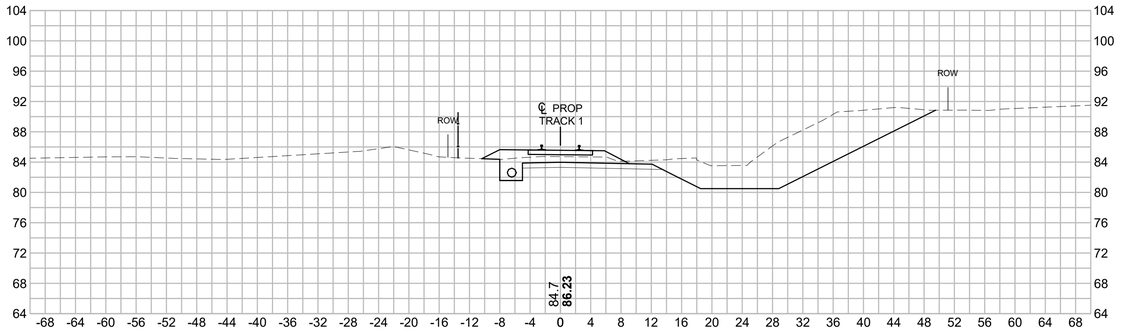
2766+00



2768+00

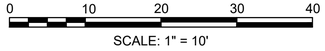


2765+00



2767+00





ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 43

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

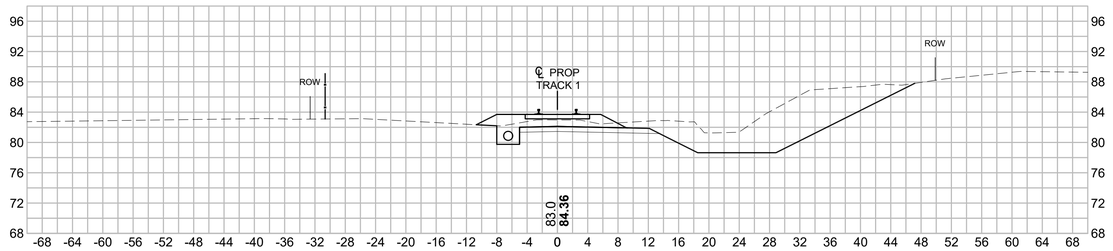
PLAN NO.

SHEET XS-343

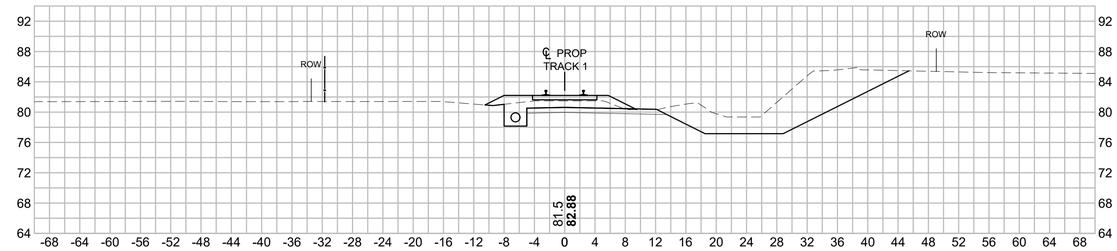
ISSUE

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

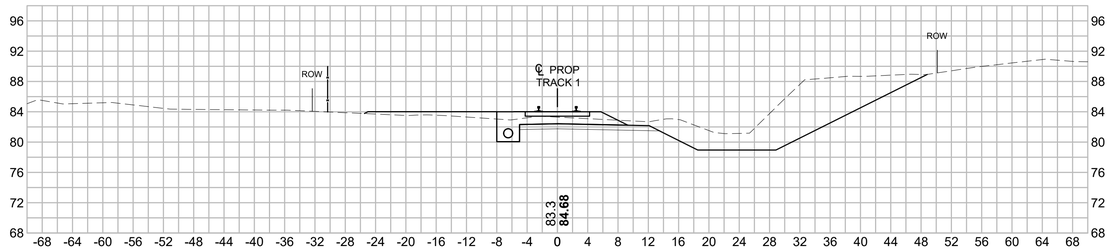
2771+00



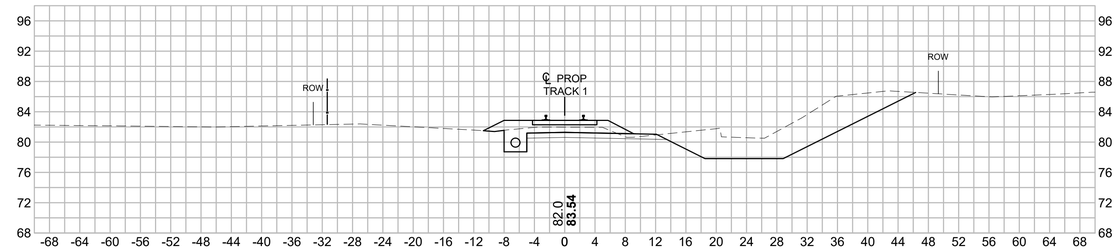
2774+00



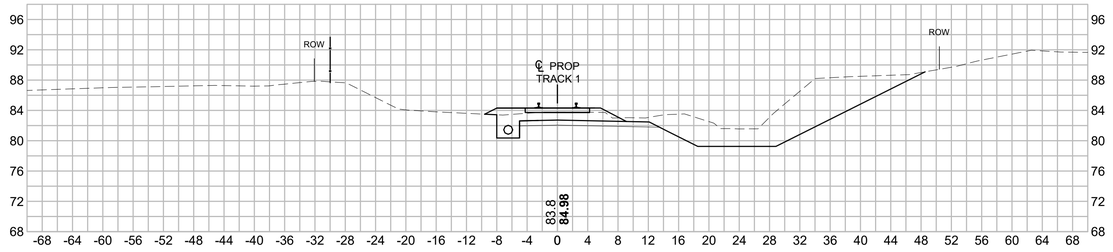
2770+00



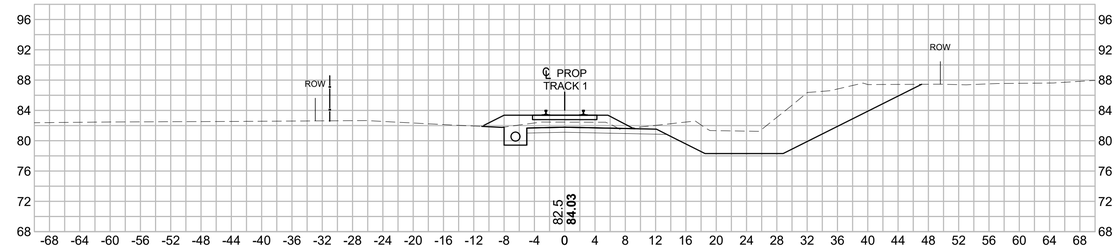
2773+00



2769+00



2772+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 44

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

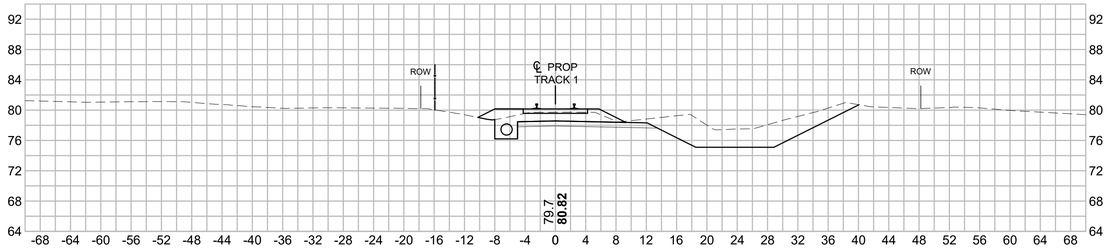
SHEET XS-344

ISSUE

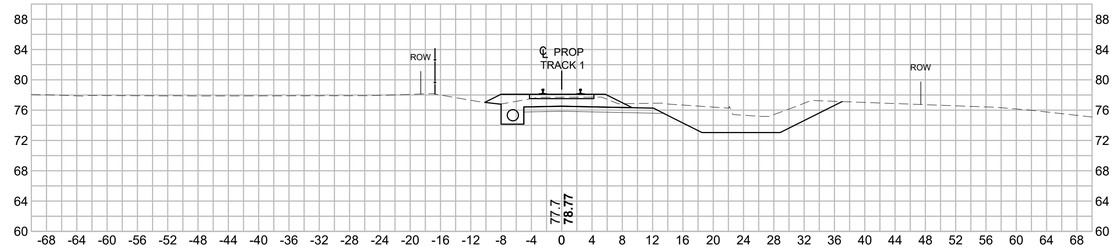
Plotted on: June 6, 2018 10:55 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

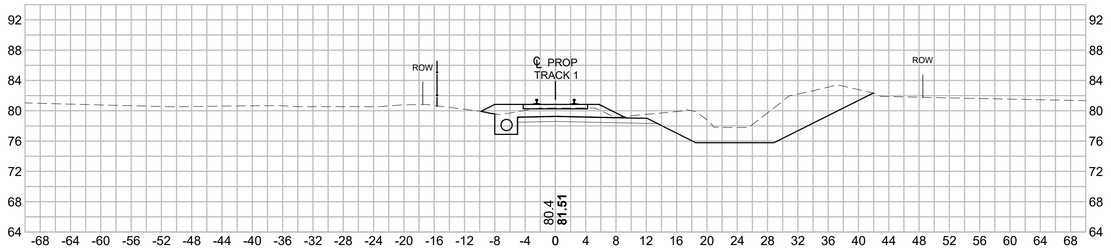
2777+00



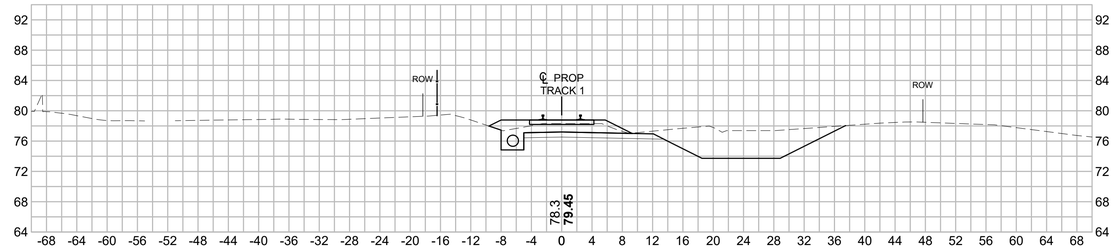
2780+00



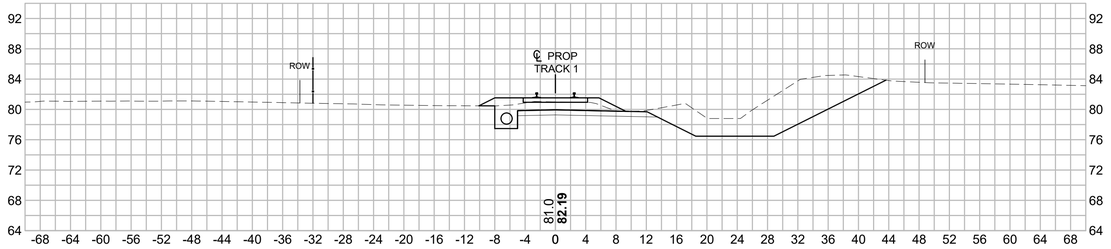
2776+00



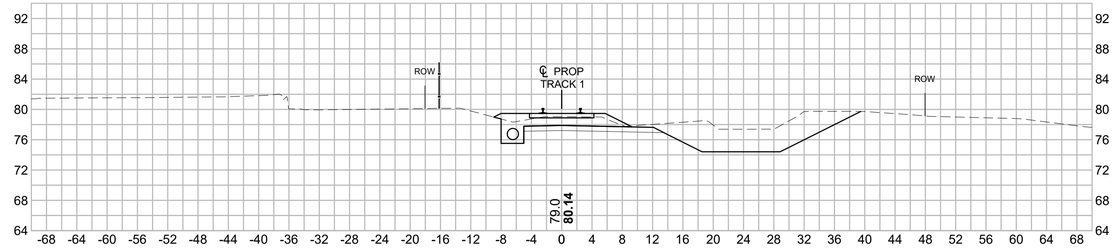
2779+00



2775+00



2778+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 45

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

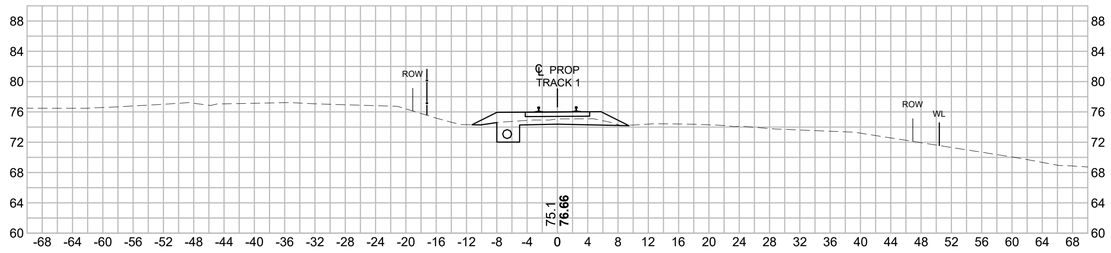
SHEET XS-345

ISSUE

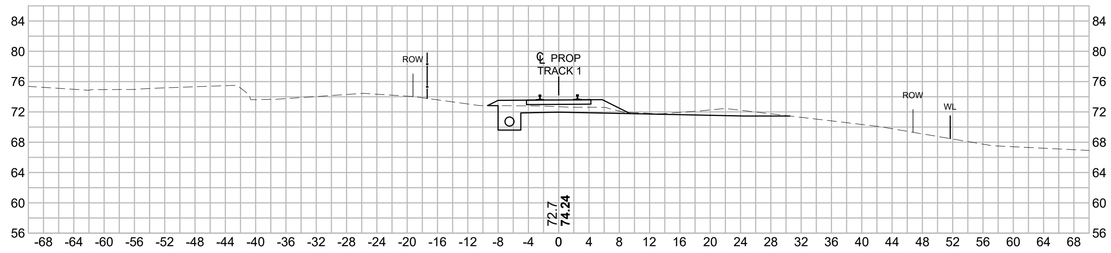
Plotted on: June 6, 2018 10:57 AM

FILE NAME: \\VHBIPROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

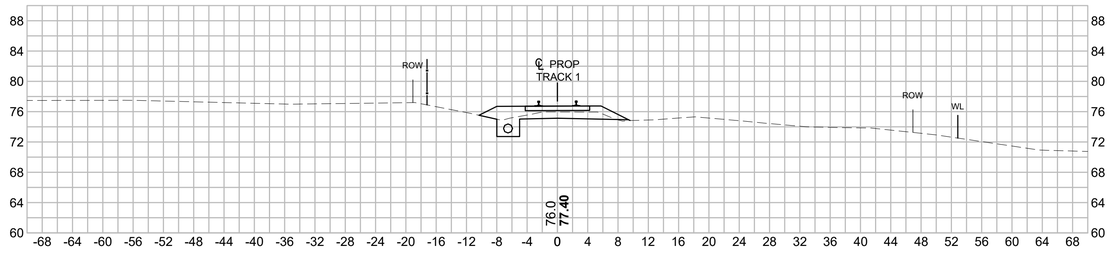
2783+00



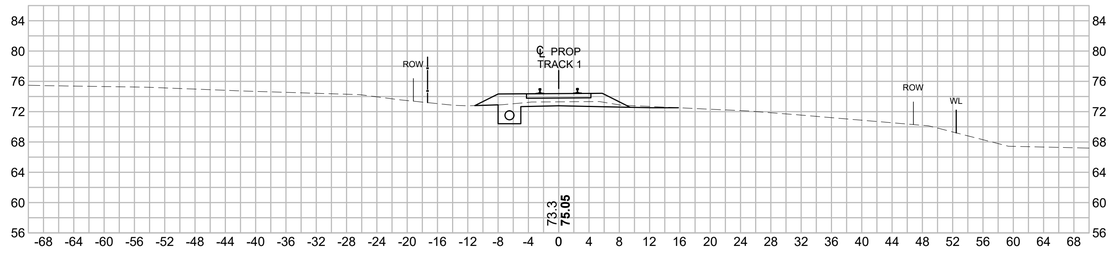
2786+00



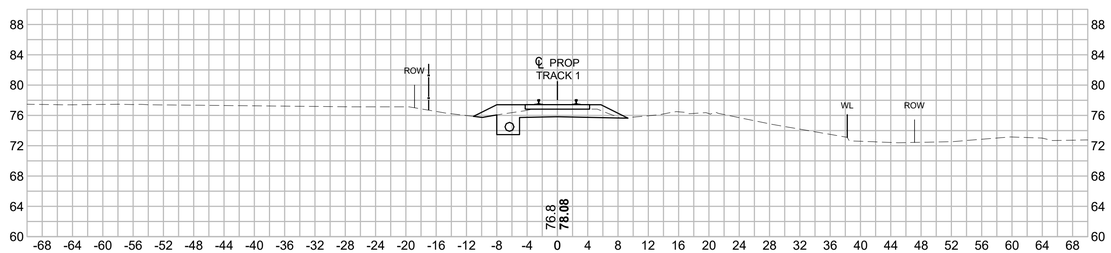
2782+00



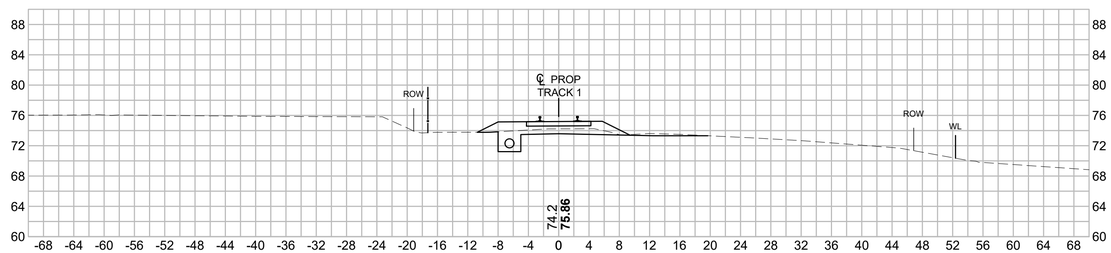
2785+00



2781+00



2784+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 46

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

Vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

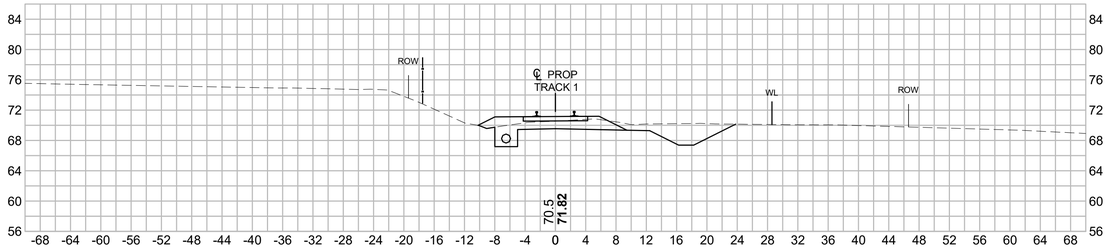
SHEET XS-346

ISSUE

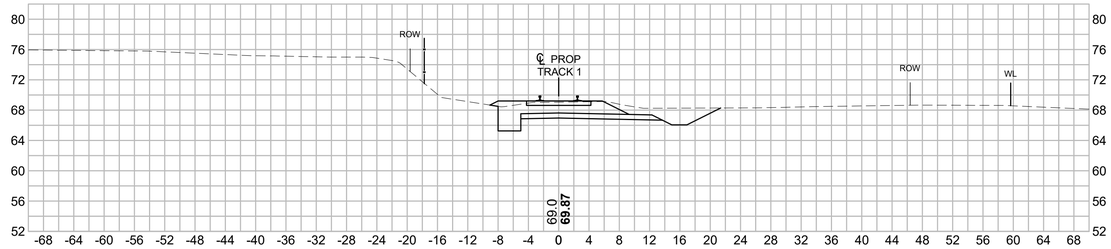
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FILE NAME: \\VHB\PROJ\BOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EVNOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

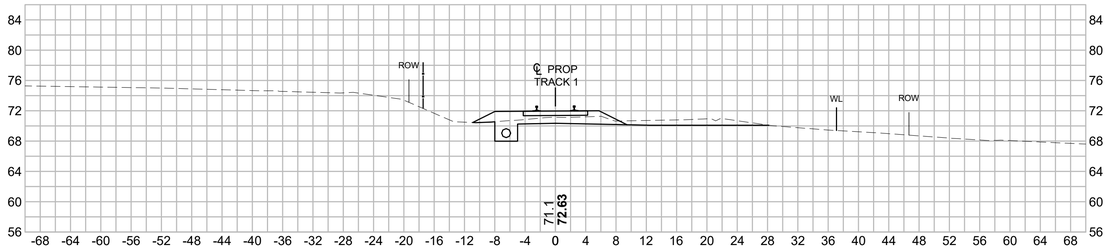
2789+00



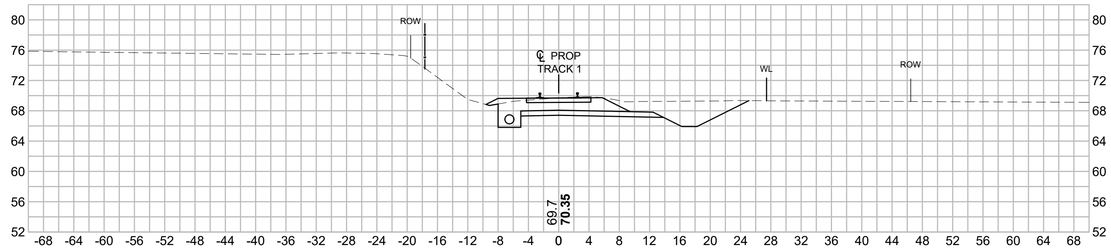
2792+00



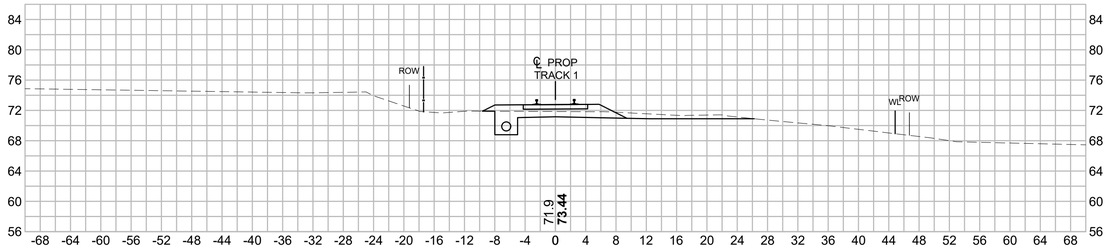
2788+00



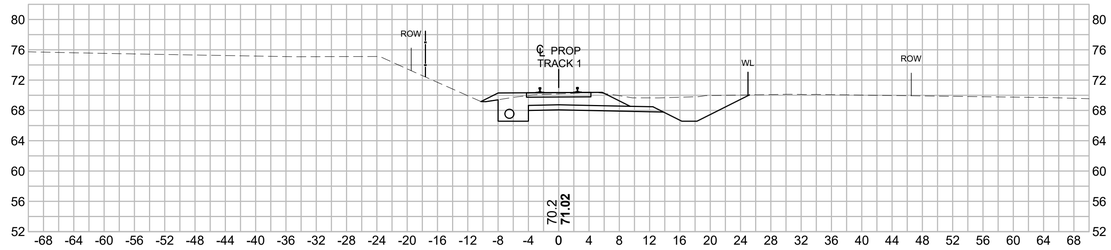
2791+00



2787+00



2790+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 47

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	DC	DC	KJC
DATE: 06/01/2018			

PLAN NO.

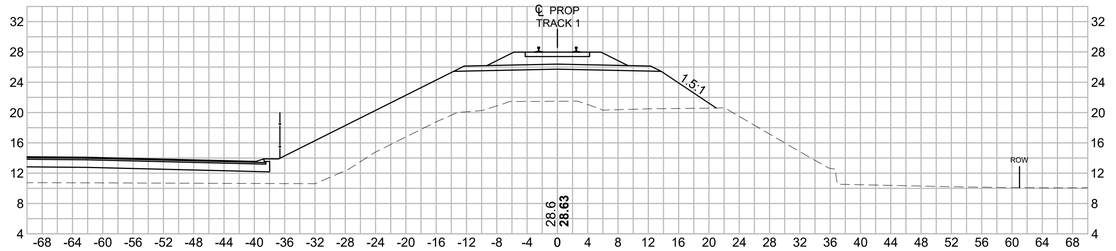
SHEET XS-347

ISSUE

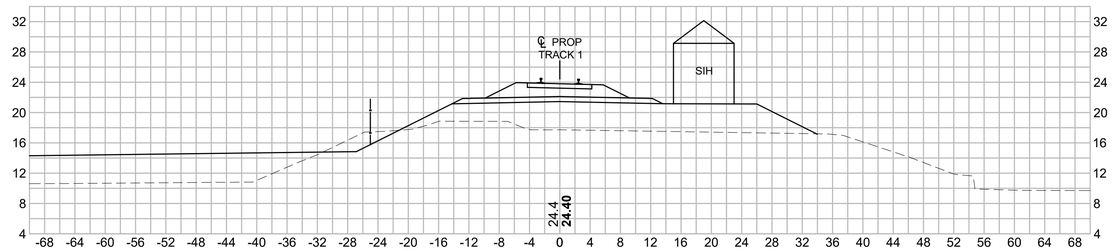
Plotted on: June 6, 2018 10:59 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

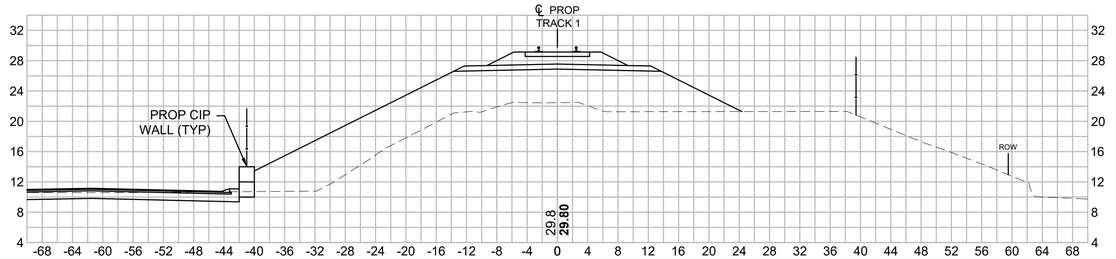
2866+00



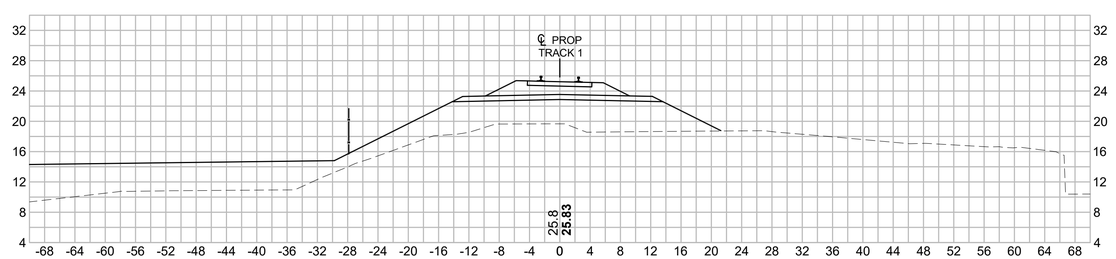
2869+00



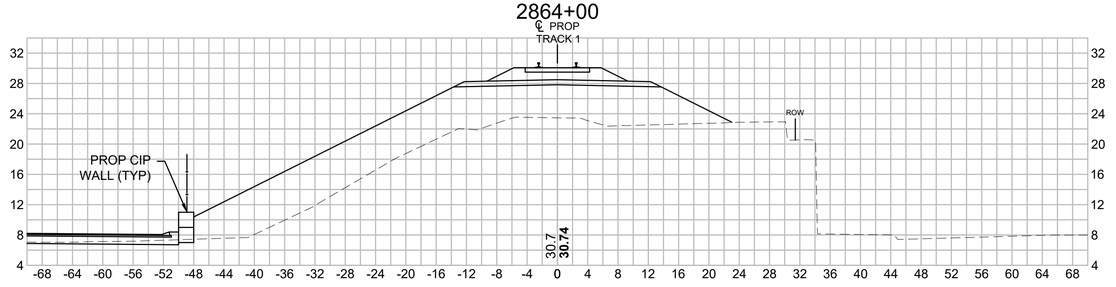
2865+00



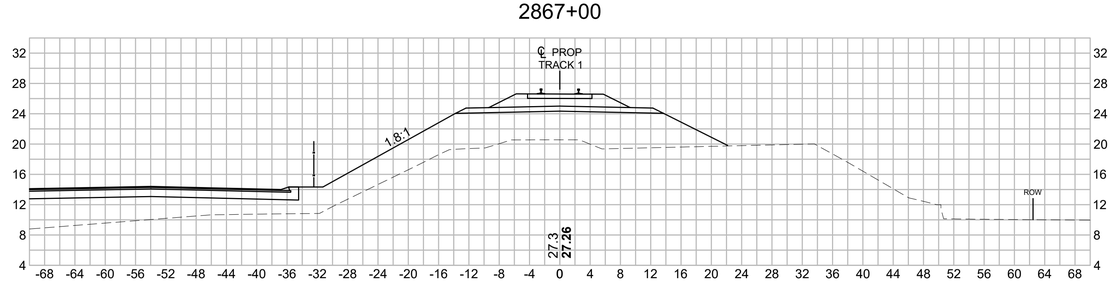
2868+00



2864+00



2867+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 48

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	DC	DC	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

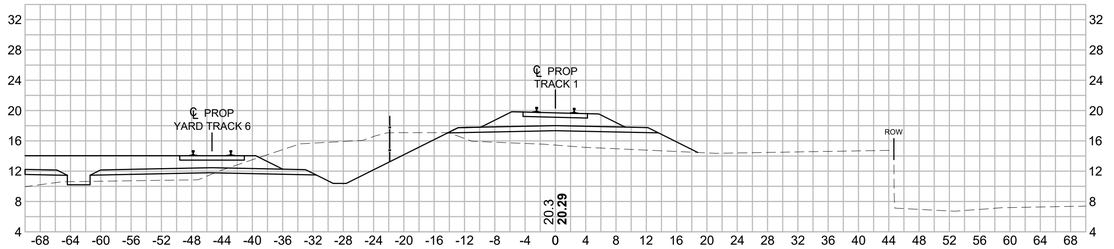
SHEET XS-348

ISSUE

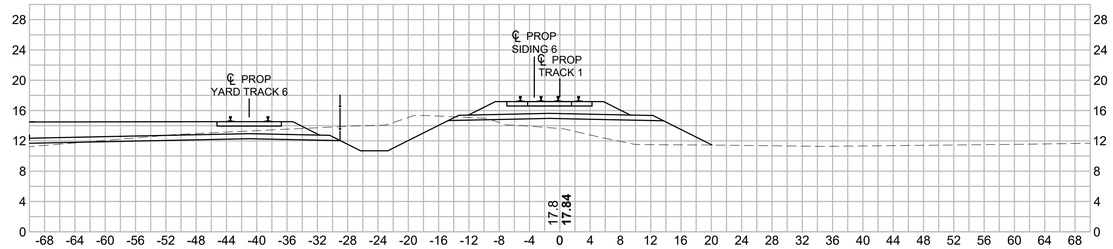
Plotted on: June 6, 2018 11:00 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

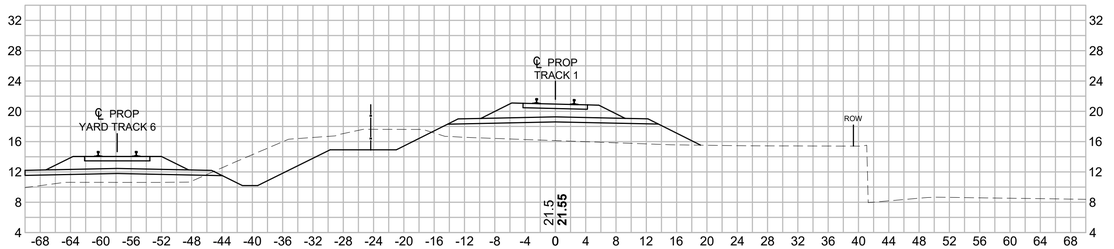
2872+00



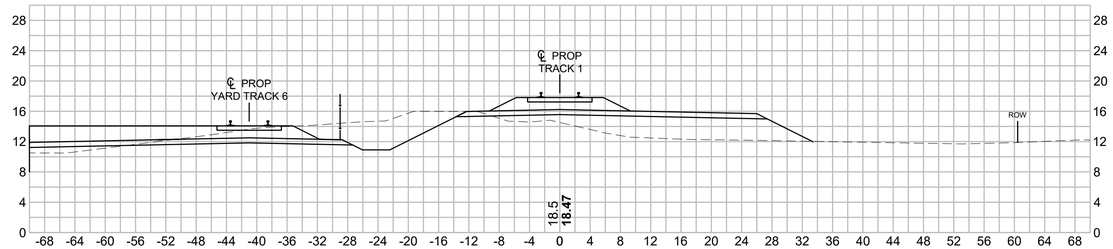
2875+00



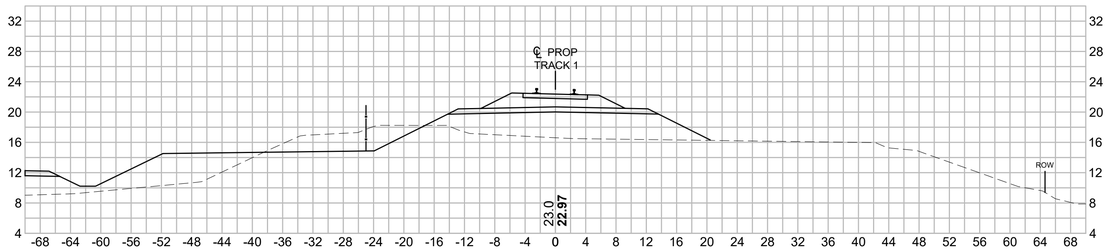
2871+00



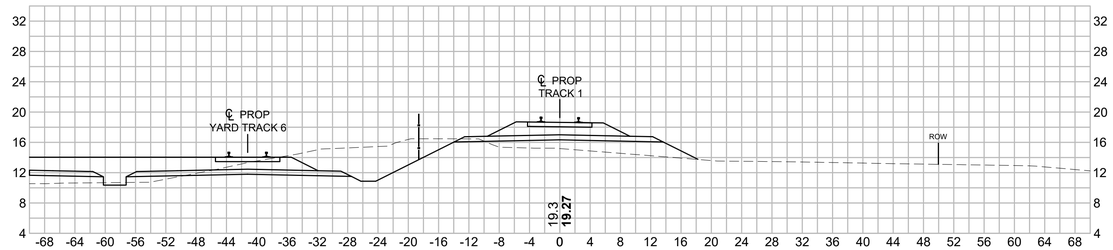
2874+00



2870+00



2873+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 49

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	ADZ	RRD	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

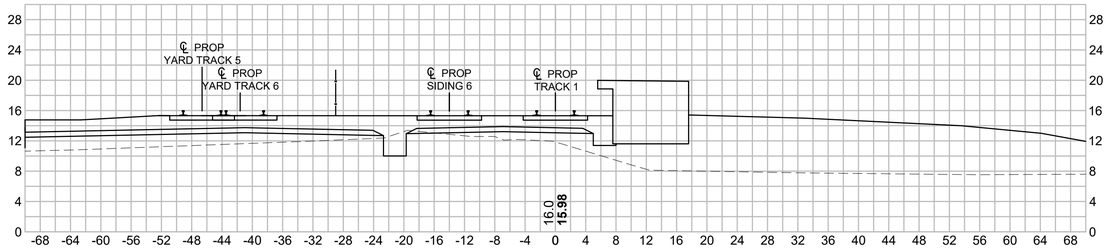
SHEET XS-349

ISSUE

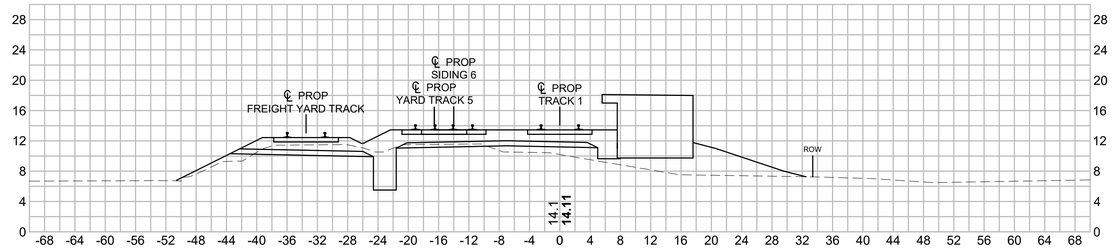
Plotted on: June 6, 2018 10:57 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

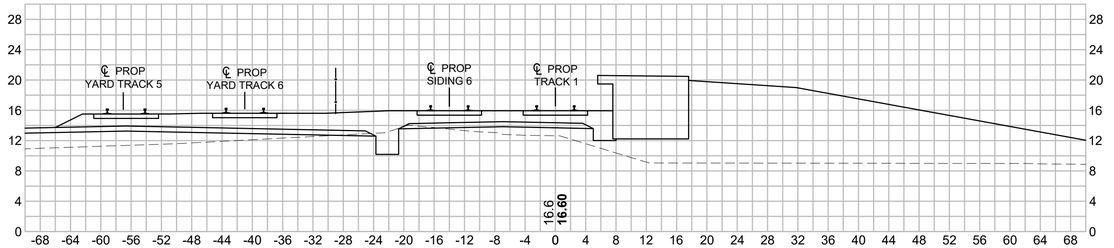
2878+00



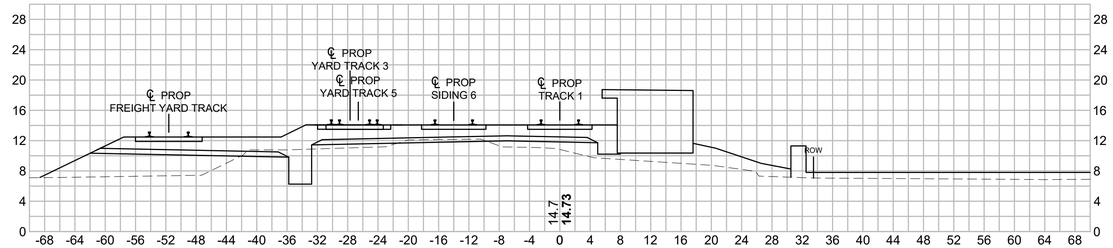
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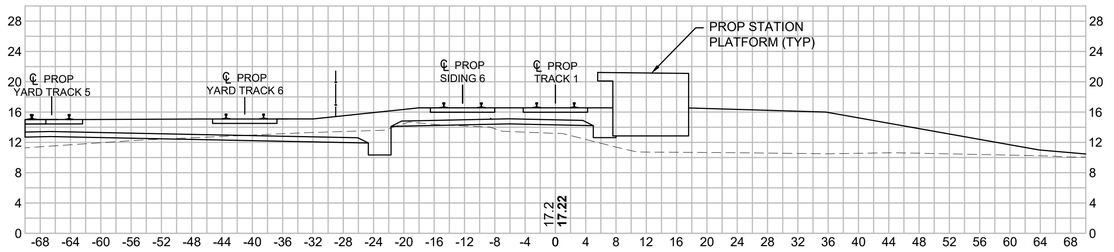
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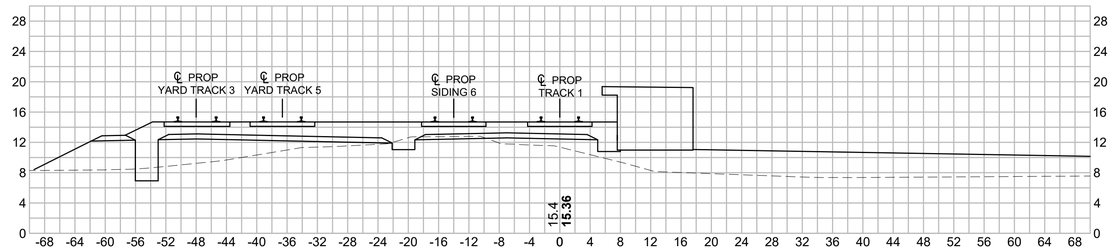
2880+00



2876+00



2879+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 50

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.

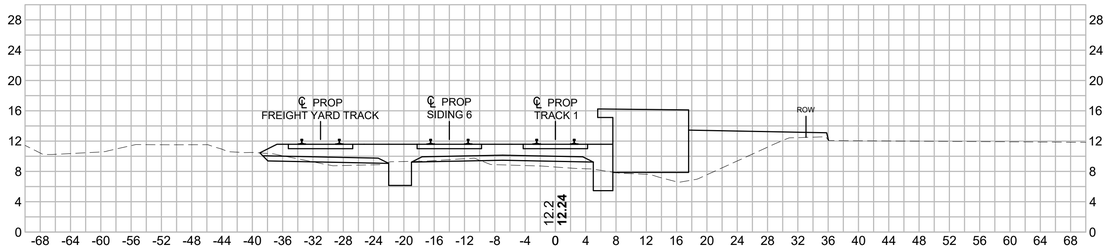
SHEET XS-350

ISSUE

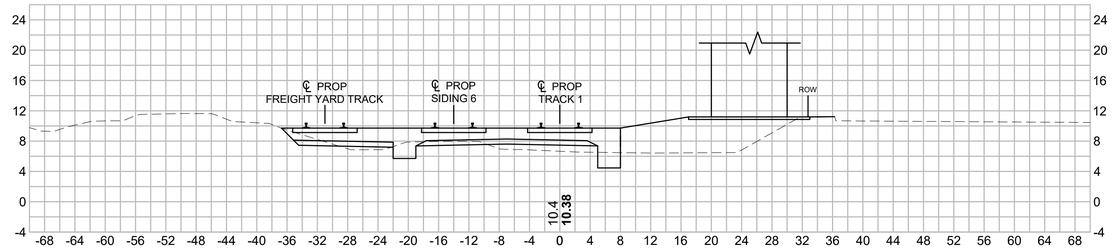
Plotted on: June 6, 2018 10:57 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS6).DWG

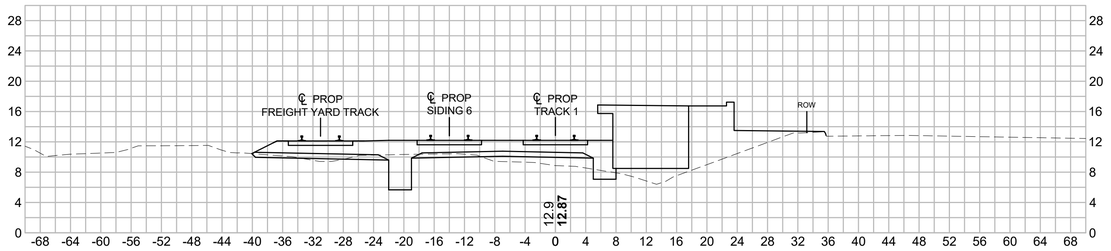
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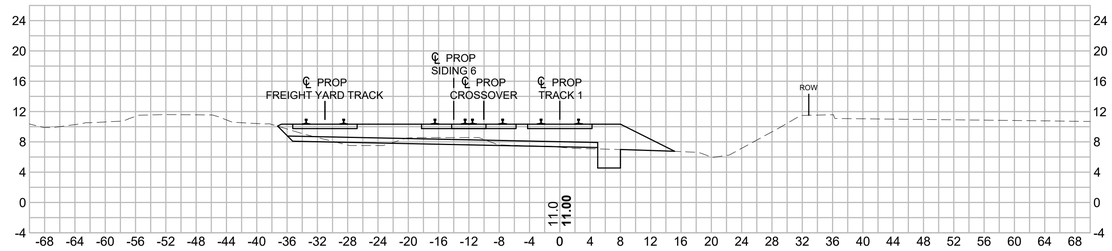
2887+00



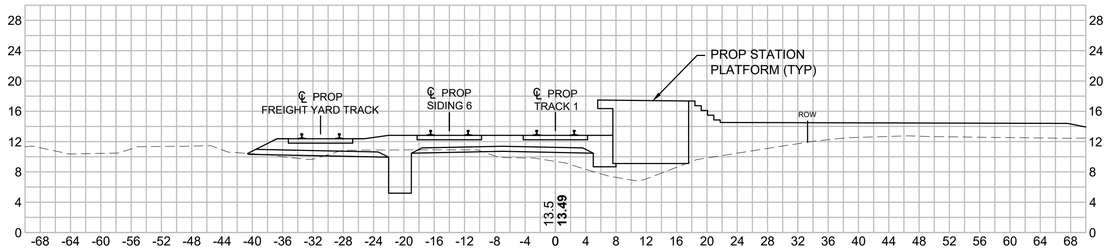
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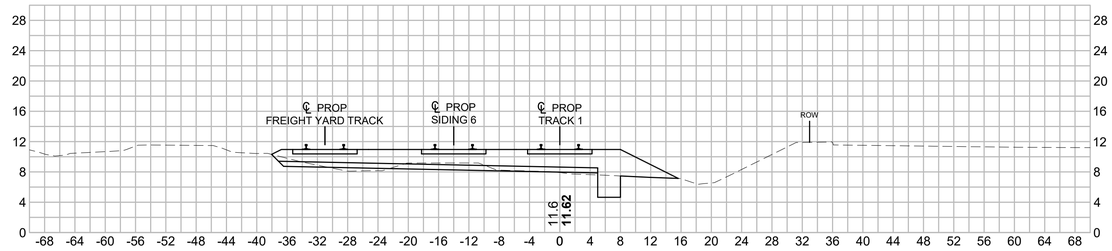
2886+00



2882+00



2885+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 51

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'	ADZ	RRD	KJC
VERT: 1" = 10'			
DATE: 06/01/2018			

PLAN NO.

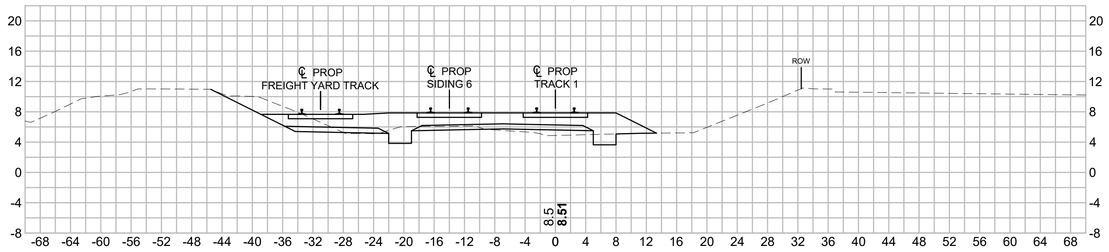
SHEET XS-351

ISSUE

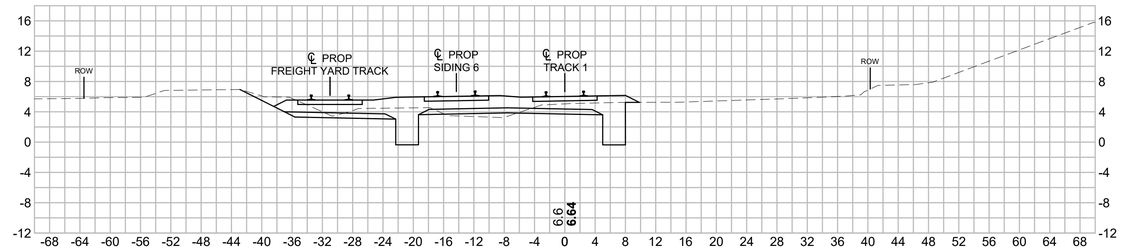
Plotted on June 6, 2018 10:58 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS71).DWG

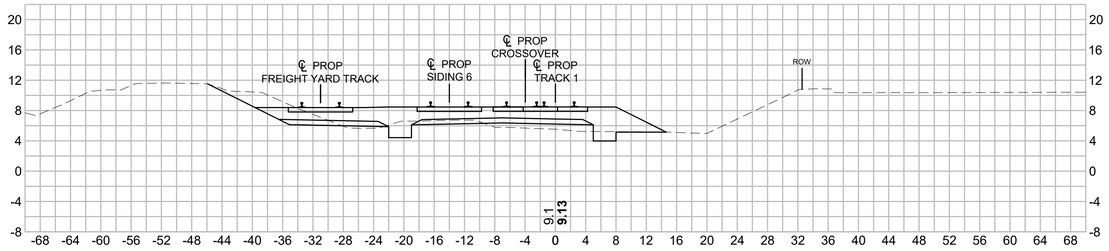
2890+00



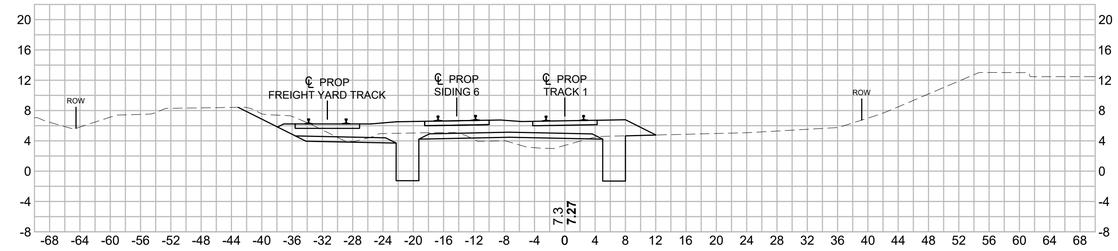
2893+00



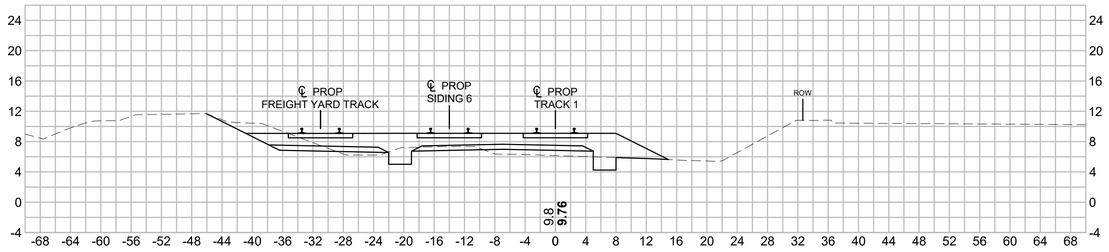
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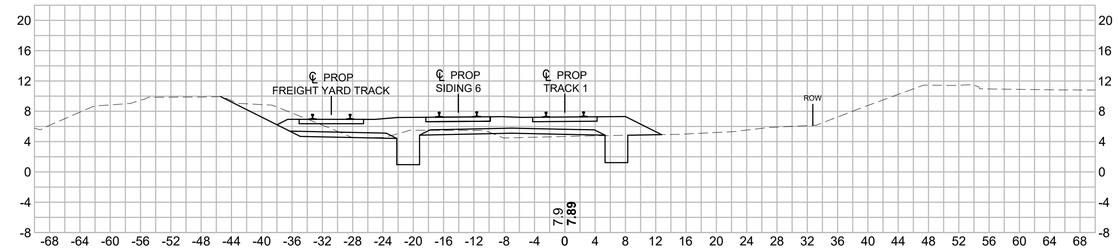
2892+00



2888+00



2891+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 52

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

HORIZ: 1" = 10'	DES. BY	DR. BY	CHK. BY
VERT: 1" = 10'	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.

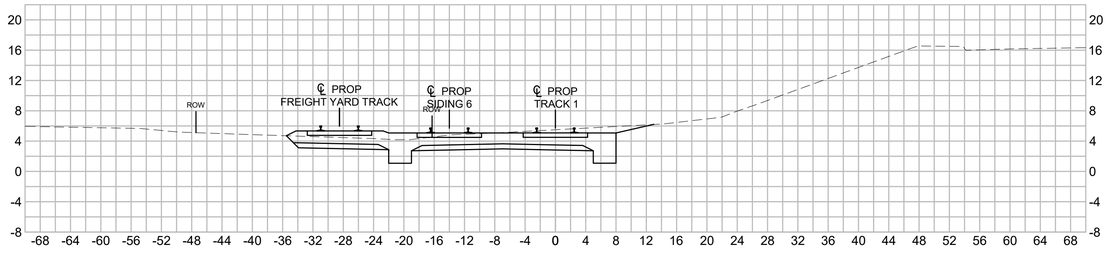
SHEET XS-352

ISSUE

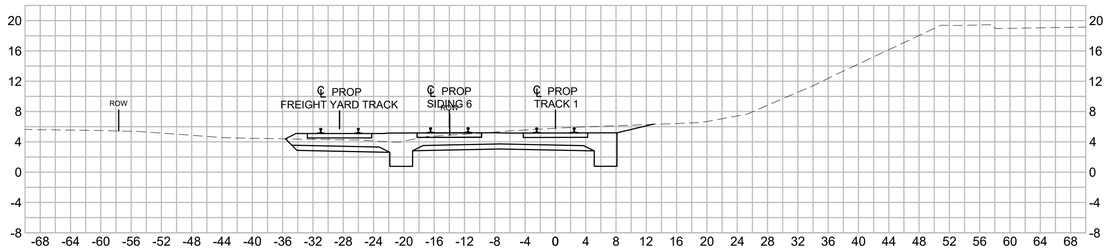
Plotted on: June 6, 2018 10:58 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS7).DWG

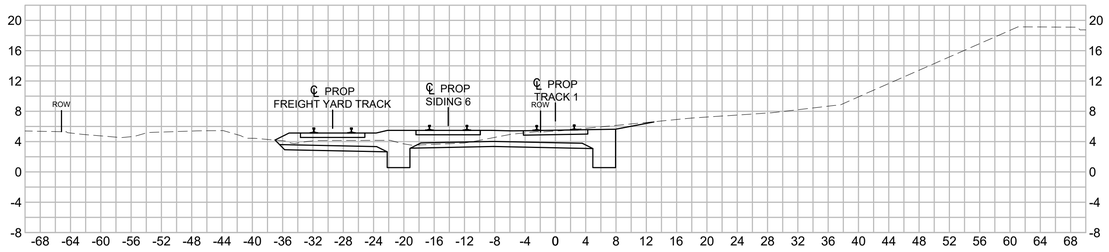
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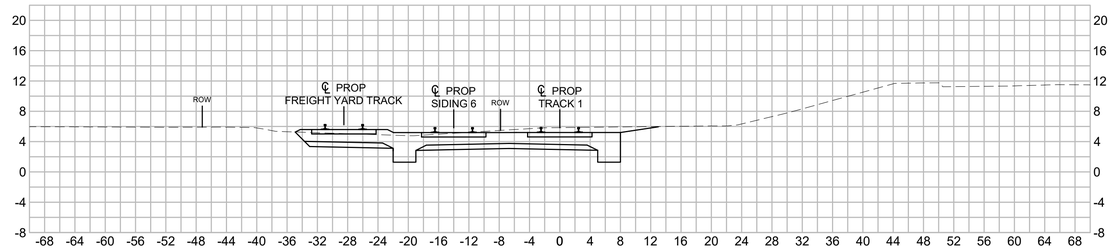
2895+00



2894+00



2897+00



0 10 20 30 40

SCALE: 1" = 10'

ISSUED FOR NOTICE OF INTENT

ISSUE	DATE	DESCRIPTION	BY	CHKD.	APP.

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

SOUTH COAST RAIL - PHASE I
DESIGN ENGINEERING AND PM/CM SERVICES
CONTRACT NO.

NEW BEDFORD MAIN LINE
CROSS SECTIONS
SHEET 53

vhb HNTB
99 HIGH STREET
BOSTON, MA 02110
(617) 728-7777

PROJECT MANAGER Date

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

APPROVED BY:

PROJECT MANAGER Date

	DES. BY	DR. BY	CHK. BY
HORIZ: 1" = 10'			
VERT: 1" = 10'	ADZ	RRD	KJC
DATE: 06/01/2018			

PLAN NO.

SHEET XS-353

ISSUE

Plotted on: June 6, 2018 10:58 AM

FILE NAME: \\VHB\PROJBOSTON\12815.00 SCR PM & CM\CAD\SEGMENT3\DWG\EV\NOI NEW BEDFORD\SEGMENT3_TK(NBML_XS7).DWG