

An aerial photograph of a town, overlaid with a semi-transparent blue filter. The image shows a multi-lane road curving through the center. To the left of the road is a large parking lot filled with cars, and further left, a set of railroad tracks. In the foreground, there are several buildings, including a prominent red-roofed structure. The background features a residential area with houses and a large green field. The text 'APPENDIX C: ENGINEERING PLANS' is centered horizontally across the middle of the image, underlined.

APPENDIX C: ENGINEERING PLANS

THE COMMONWEALTH OF MASSACHUSETTS

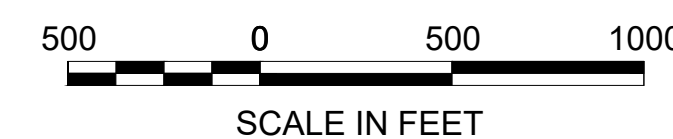
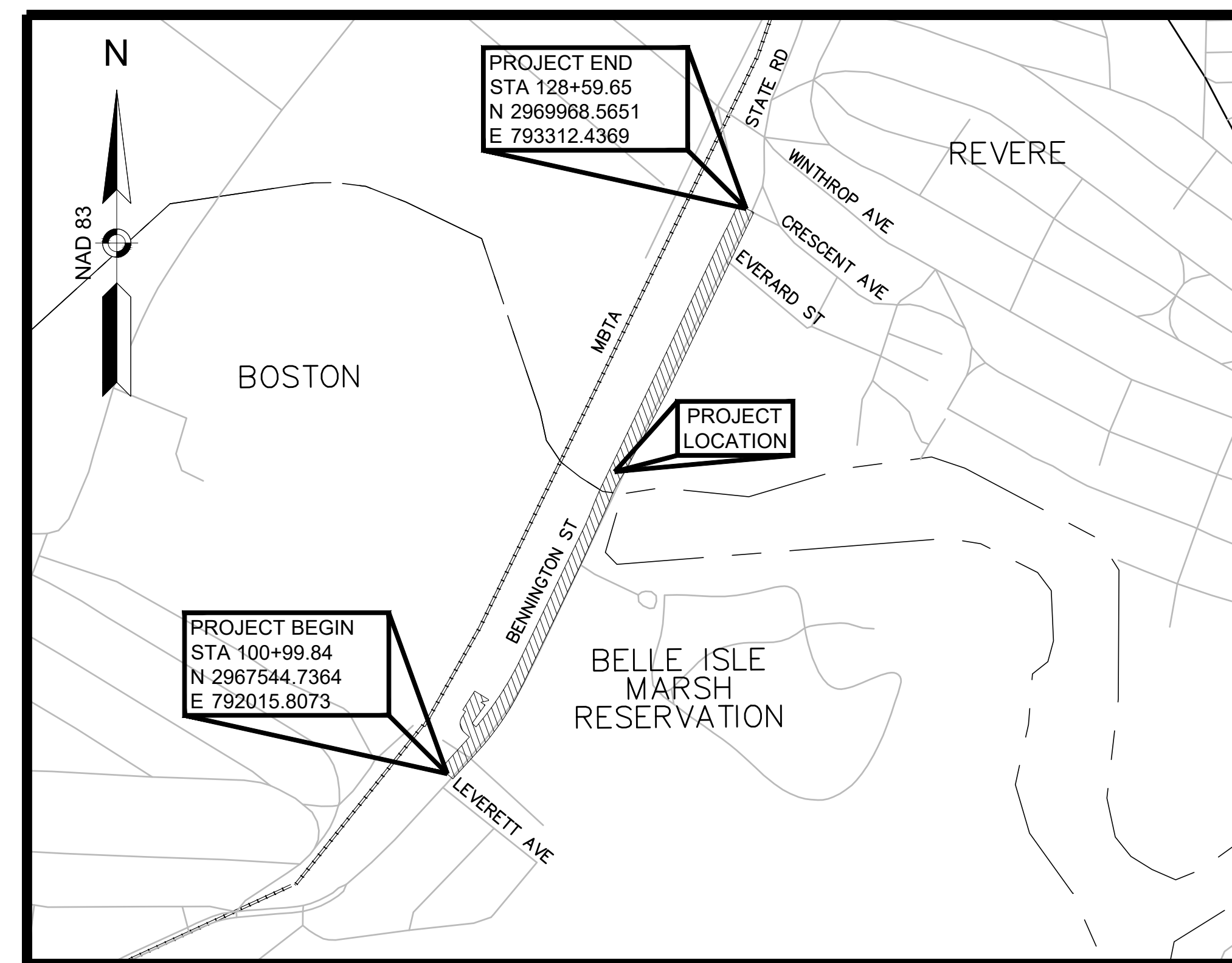
PLAN AND PROFILE OF
BENNINGTON STREET
 IN THE CITIES OF
BOSTON AND REVERE
 SUFFOLK COUNTY

BOSTON AND REVERE
 BENNINGTON STREET
 TITLE SHEET & INDEX
 SHEET 1 OF 48

THESE PLANS ARE SUPPLEMENTED BY THE JANUARY 2025 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK.

SCHEMATIC PLANS SUBMITTAL

INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
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5-8	TYPICAL SECTIONS
9-13	CONSTRUCTION PLANS
14-15	PROFILES
16-22	TRAFFIC PLANS
23-27	PLANTING PLANS
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40-48	WALL DETAILS



LENGTH OF PROJECT = 2763.40 FEET = 0.523 MILES

DESIGN DESIGNATION (BENNINGTON STREET)	
DESIGN SPEED	25 MPH (BOSTON); 30 MPH (REVERE)
ADT (2022)	-
ADT (2040)	-
K	-
D	-
T (PEAK HOUR)	-
T (AVERAGE DAY)	-
DHV	-
DDHV	-
FUNCTIONAL CLASSIFICATION	URBAN MINOR ARTERIAL

vhb Vanasse Hangen Brustlin, Inc.
 101 Walnut St., PO Box 9151
 Watertown, MA 02472
 617.924.1770 FAX 617.924.2286

APPROVED

 CHIEF ENGINEER

 DATE

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		IRRIGATION CONTROL VALVE
		BOLLARD
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS SHUT OFF/GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		TRANSFORMER
		BUSH
		DECIDUOUS TREE
		CONIFEROUS TREE
		STUMP
		SWAMP / MARSH
		WATER SHUT OFF/WATER GATE
		WATER VALVE
		PARKING METER
		GAS METER
		ELECTRIC METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		PIPE SIZE AND MATERIAL
		UNDERGROUND CABLE TELEVISION
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		STREET LIGHTING
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		GAS-ABANDONED
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		SEWER-FORCE MAIN
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 16 INCH AND OVER)
		WATER-ABANDONED
		CAST IRON
		CORREGATED PLASTIC PIPE
		DUCTILE IRON
		POLYVINYL CHLORIDE
		REINFORCED CONCRETE PIPE
		VITRIFIED CLAY PIPE
		DIGSAFE CABLE
		DIGSAFE ELECTRIC
		DIGSAFE GAS
		DIGSAFE TELEPHONE
		DIGSAFE WATER
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		SEDIMENT BARRIER
		COIR LOG SEDIMENT BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT AREA
		SALT MARSH
		LAND SUBJECT TO COASTAL STORM FLOWAGE
		COASTAL BANK
		AREA OF CRITICAL ENVIRONMENTAL CONCERN
		APPROXIMATE SEAWARD EXTENT OF SALT MARSH
		100' COASTAL BANK BUFFER
		25' WATERFRONT AREA
		25' RIVERFRONT AREA
		FEMA FLOODPLAIN
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
		RAILROAD SIGNAL
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOTTED WHITE LINE
		DOTTED YELLOW LINE
		DOTTED WHITE LINE EXTENSION
		DOTTED YELLOW LINE EXTENSION
		DOUBLE WHITE LINE
		DOUBLE YELLOW LINE

ABBREVIATIONS

GENERAL	
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	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
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	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
M&O	MILL & OVERLAY
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	PEDESTRIAN CURB RAMP
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
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY

ABBREVIATIONS (cont.)

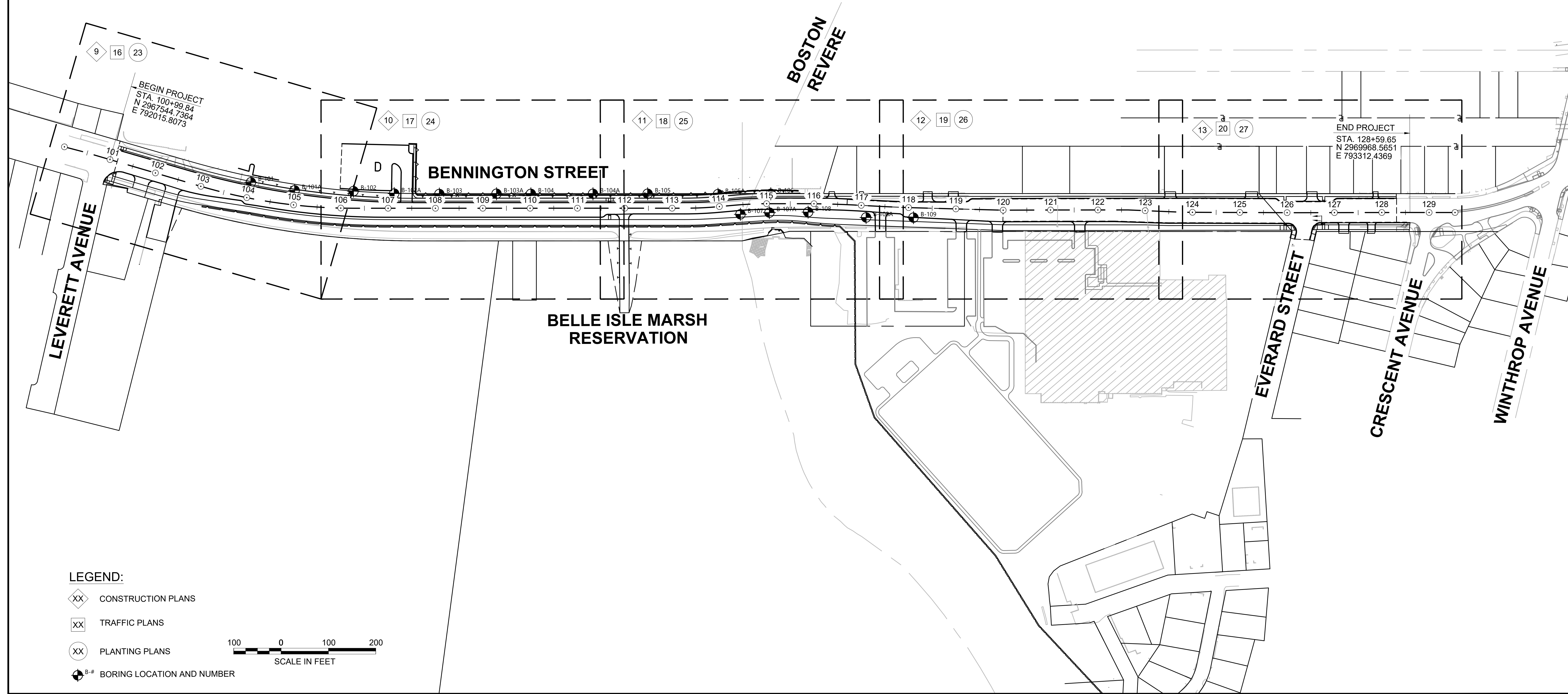
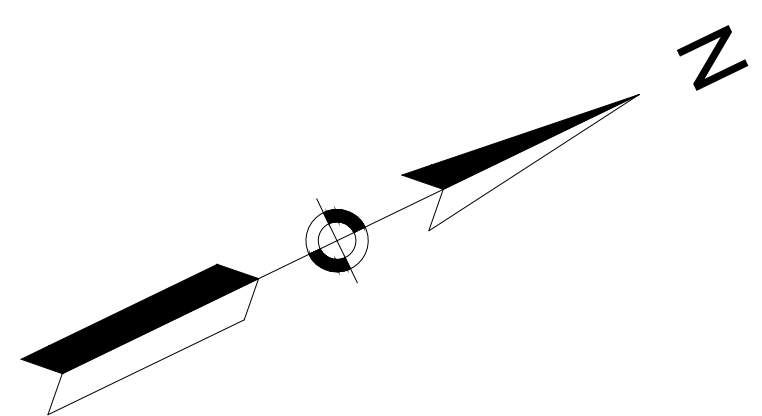
GENERAL	
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

GENERAL NOTES:


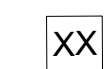


- THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE COMPILED BASED UPON AN ACTUAL FIELD SURVEY CONDUCTED BY BRENNAN CONSULTING BETWEEN MARCH, 2024 AND FEBRUARY, 2025.
- THE HORIZONTAL CONTROL IS BASED ON THE MASSACHUSETTS MAINLAND STATE PLANE COORDINATE SYSTEM AND THE NATIONAL GEODETIC SURVEY (NAD83). ALL ELEVATION IS US FEET, REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND GRADES IN THE FIELD BEFORE COMMENCING WORK AND PROMPTLY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY 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 SHALL 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.
- PROTECTION OF UNDERGROUND FACILITIES. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE NECESSITY OF MAKING HIS OWN INVESTIGATION IN ORDER TO ASSURE THAT NO DAMAGE TO EXISTING STRUCTURES, DRAINAGE LINES, TRAFFIC SIGNAL CONDUITS, ETCETRA, WILL OCCUR.
- DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONSTRUCTABILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
- THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH PROPOSED CONDUIT AND SIGNAL EQUIPMENT. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR DIRECTED BY THE ENGINEER.
- 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 TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE AND SEWER 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.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- EXISTING UTILITY POLES WILL BE RELOCATED BY OTHERS IF REQUIRED.
- EXISTING STREET LIGHTING POLES WILL BE RELOCATED BY THE CONTRACTOR, UNLESS DIRECTED BY THE ENGINEER.
- TREES AND SHRUBS WITHIN THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON APPROVAL OF THE ENGINEER AND THE CITY OF BOSTON PARKS.
- AREAS OUTSIDE THE LIMITS 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.
- 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).
- JOINTS BETWEEN NEW ASPHALT CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE THOROUGHLY COATED WITH A HOT APPLIED PAVEMENT JOINT ADHESIVE MEETING THE REQUIREMENTS OF SUBSECTION 450 OF 2024 STANDARD SPECIFICATIONS.
- AFTER MILLING OPERATIONS AND PRIOR TO PAVING THE SUPERPAVE INTERMEDIATE OR SURFACES COURSES THE ENGINEER SHALL EVALUATE THE MILLED SURFACE AND SHALL APPLY THE APPROPRIATE REPAIR METHOD IF REQUIRED.
- EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RESET UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- IF SUITABLE, EXISTING GRANITE CURB & EDGING SHALL BE RE-USED IN THE PROPOSED WORK, EXCEPT CURVED STONES OF A DIFFERENT RADIUS THAN PROPOSED CURB.
- THE RIGHT-OF-WAY LINES AND BASELINES SHOWN ON THIS PLAN ARE BASED ON STATE HIGHWAY LAYOUT ##### DATED YEAR AND COUNTY LAYOUT DATED YEAR. THE MONUMENTS FOUND ON THIS PLAN WERE FIELD LOCATED AND USED TO ESTABLISH THE RIGHT-OF-WAY LINES. THE PROPERTY LINES OF INDIVIDUAL OWNERS ALONG THE RIGHT-OF-WAY SHOWN ON THIS PLAN ARE FROM RECORD DEEDS AND PLANS, INDIVIDUAL ABUTTERS PROPERTIES WERE NOT SURVEYED.
- THE CONTRACTOR SHALL EXERCISE DUE CARE WHEN WORKING AROUND ALL PROPERTY BOUNDS WHICH ARE TO REMAIN. SHOULD ANY DAMAGE TO A BOUND RESULT FROM THE ACTIONS OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE THE BOUND REPLACED AND/OR REALIGNED BY A LICENSED PROFESSIONAL SURVEYOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
- DISPOSAL OF ALL SURPLUS MATERIAL SHALL BE AS APPROVED BY THE ENGINEER AND OWNER.
- LATERAL DRAIN PIPES SHALL BE INSTALLED WITH A PITCH OF 0.01 FOOT PER FOOT (MINIMUM) UNLESS NOTED OTHERWISE ON THE PLANS.
- IN INSTANCES WHERE AN EXISTING MANHOLE, HANDHOLE OR OTHER "SURFACE" TYPE STRUCTURE THAT CANNOT BE REMOVED OR RESET IS WITHIN THE PROPOSED OR EXISTING ACCESSIBLE SURFACE, THE STRUCTURE SHALL BE CAREFULLY ADJUSTED SUCH THAT THE TOPMOST SURFACES OR THE STRUCTURE COVER SHALL BE FLUSH WITH THE CURB RAMP SURFACE.

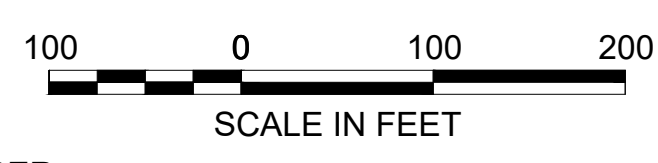


BEGIN PROJECT
 STA. 100+99.84
 N 2967544.7364
 E 792015.8073

END PROJECT
 STA. 128+59.65
 N 2969968.5651
 E 793312.4369

LEGEND:

-  CONSTRUCTION PLANS
-  TRAFFIC PLANS
-  PLANTING PLANS
-  BORING LOCATION AND NUMBER



PAVEMENT NOTES

FULL DEPTH CONSTRUCTION (PAVEMENT DESIGN PENDING)

SURFACE COURSE: 2" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h) OVER

INTERMEDIATE COURSE: 2.5" SUPERPAVE INTERMEDIATE COURSE - 19.0 POLYMER (SIC-19.0-P) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h) OVER

BASE COURSE: 5.5" SUPERPAVE BASE COURSE 37.5 (SBC-37.5) OVER

SUB-BASE: 4" DENSE GRADED CRUSHED STONE OVER
8" GRAVEL BORROW TYPE B**

PAVEMENT MILL AND OVERLAY

SURFACE COURSE: 2" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER ASPHALT EMULSION FOR TACK COAT (RS-1h)

VARIABLE DEPTH MILLING: MAXIMUM DEPTH OF 3" PAVEMENT FINE MILLING

CEMENT CONCRETE SIDEWALKS

SURFACE COURSE: 4" CEMENT CONCRETE SIDEWALK OVER

SUB-BASE: 8" GRAVEL BORROW TYPE B**

CEMENT CONCRETE SIDEWALKS AT DRIVEWAYS

SURFACE COURSE: 6" CEMENT CONCRETE SIDEWALK OVER

SUB-BASE: 8" GRAVEL BORROW TYPE B**

HMA DRIVEWAYS

SURFACE COURSE: 1.5" HOT MIX ASPHALT SURFACE COURSE OVER
2.5" HOT MIX ASPHALT BOTTOM COURSE OVER

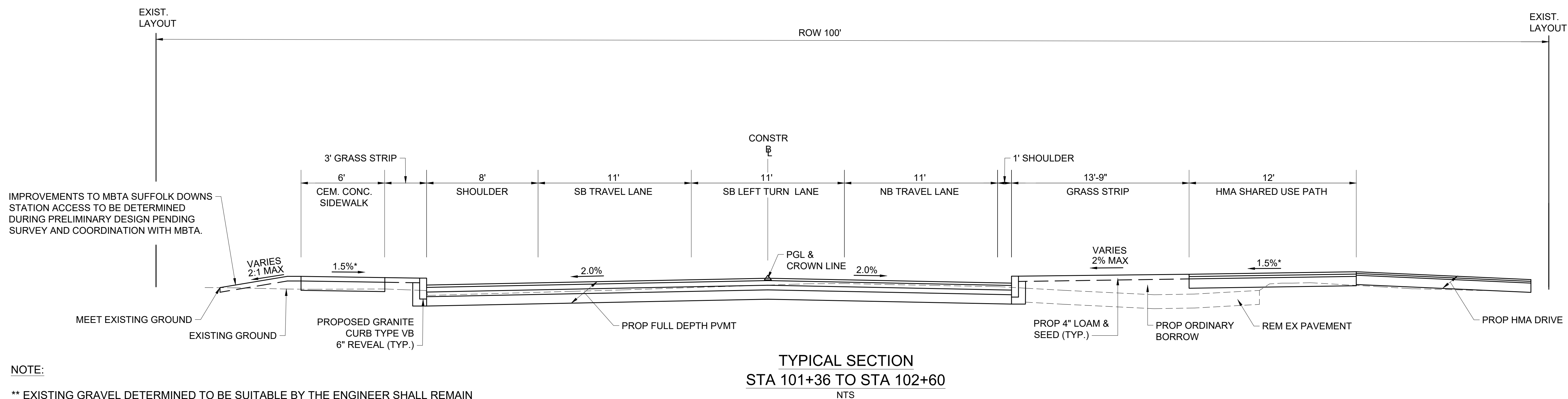
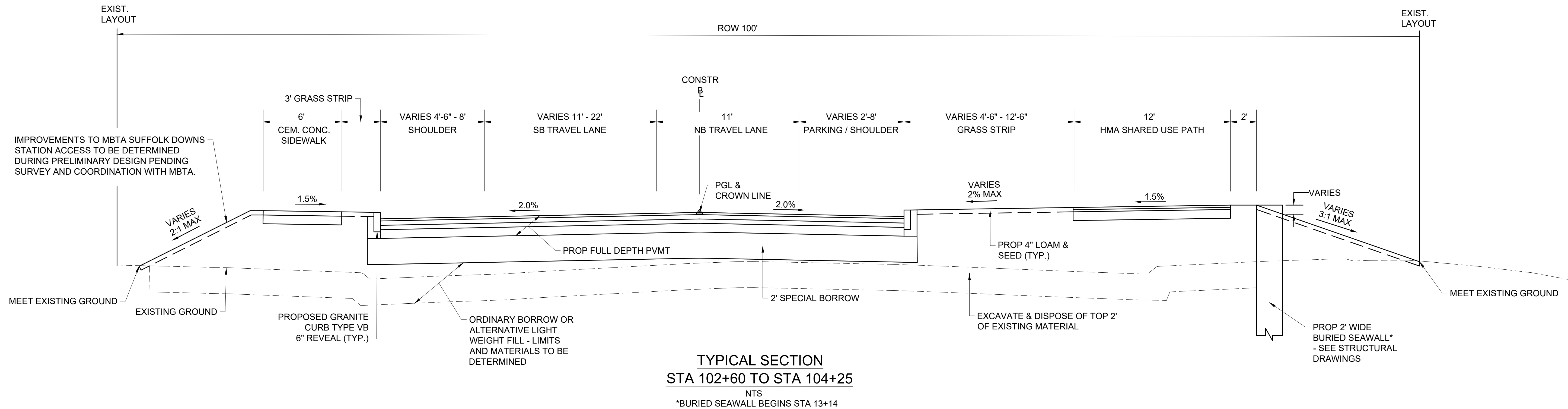
SUB-BASE: 8" GRAVEL BORROW TYPE B**

SHARED USE PATH

SURFACE COURSE: 1.5" SUPERPAVE COURSE - 9.5 (SSC-9.5) OVER ASPHALT EMULSION FOR TACK COAST (RS-1h) OVER

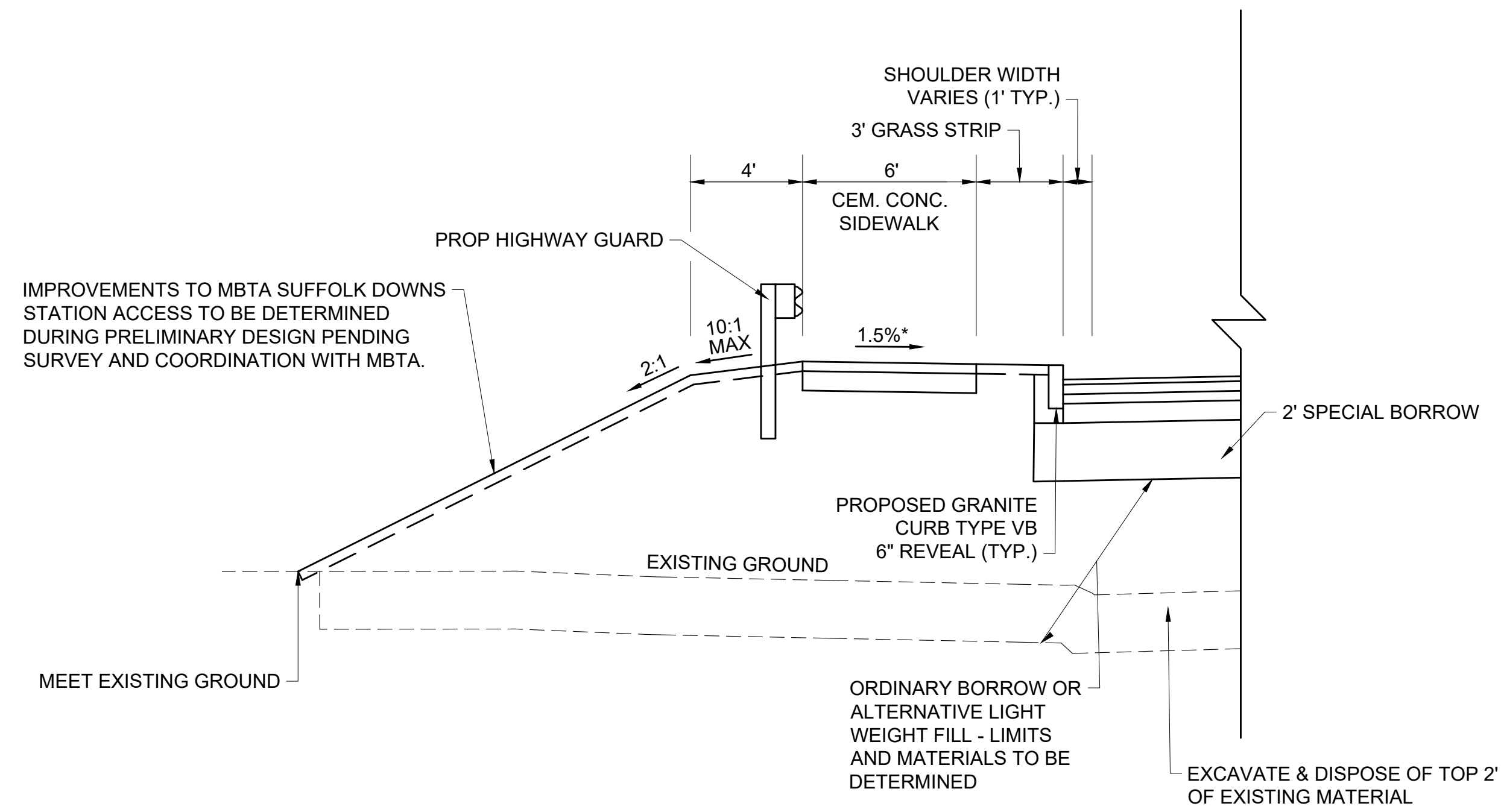
INTERMEDIATE COURSE: 2.5" SUPERPAVE SURFACE COURSE - 12.5 (SSC-12.5) OVER

SUB-BASE: 8" GRAVEL BORROW TYPE B**

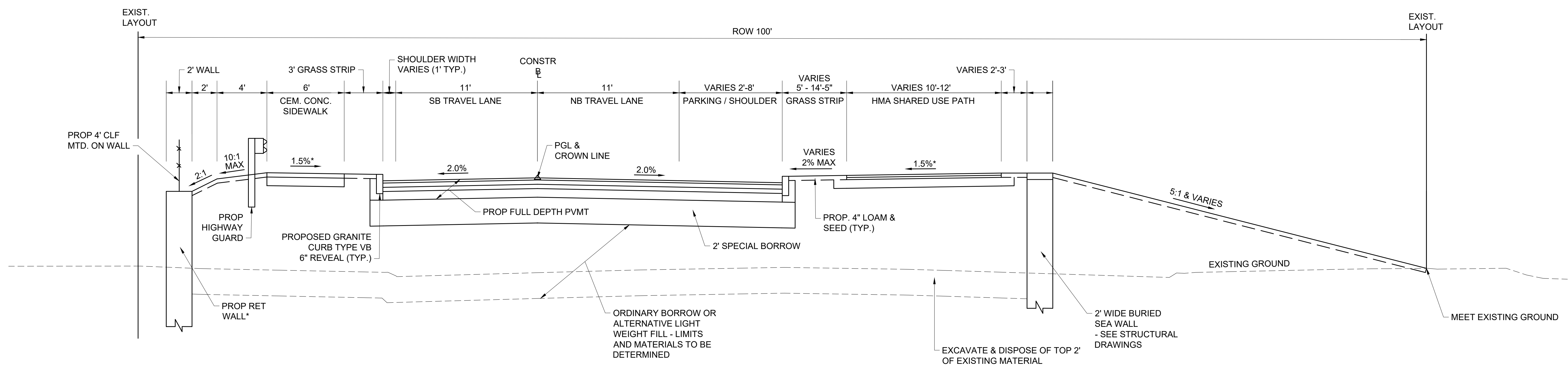


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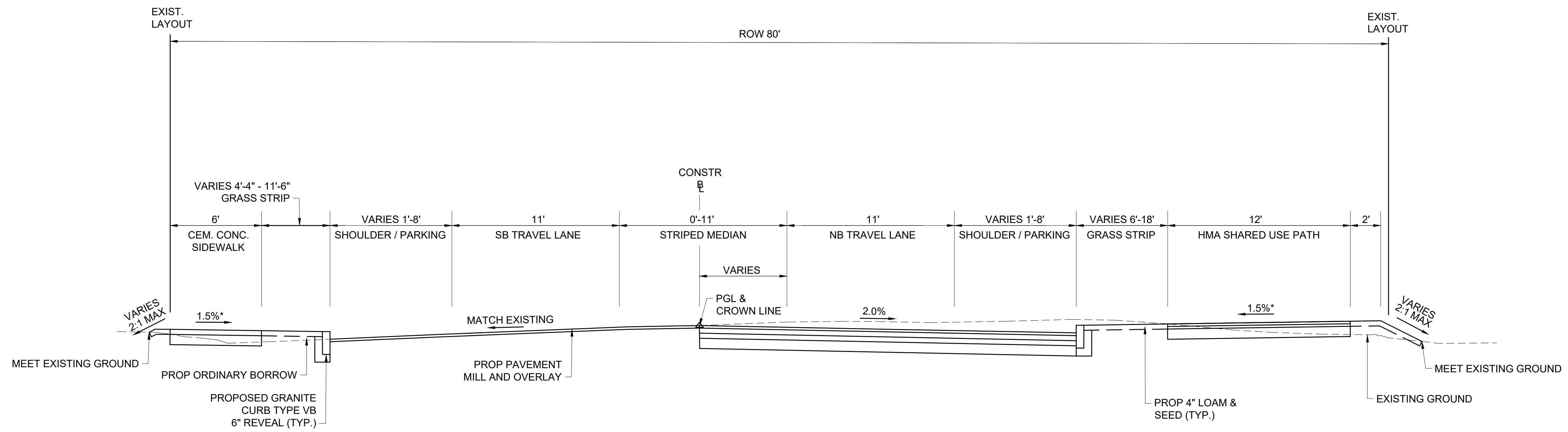
** EXISTING GRAVEL DETERMINED TO BE SUITABLE BY THE ENGINEER SHALL REMAIN



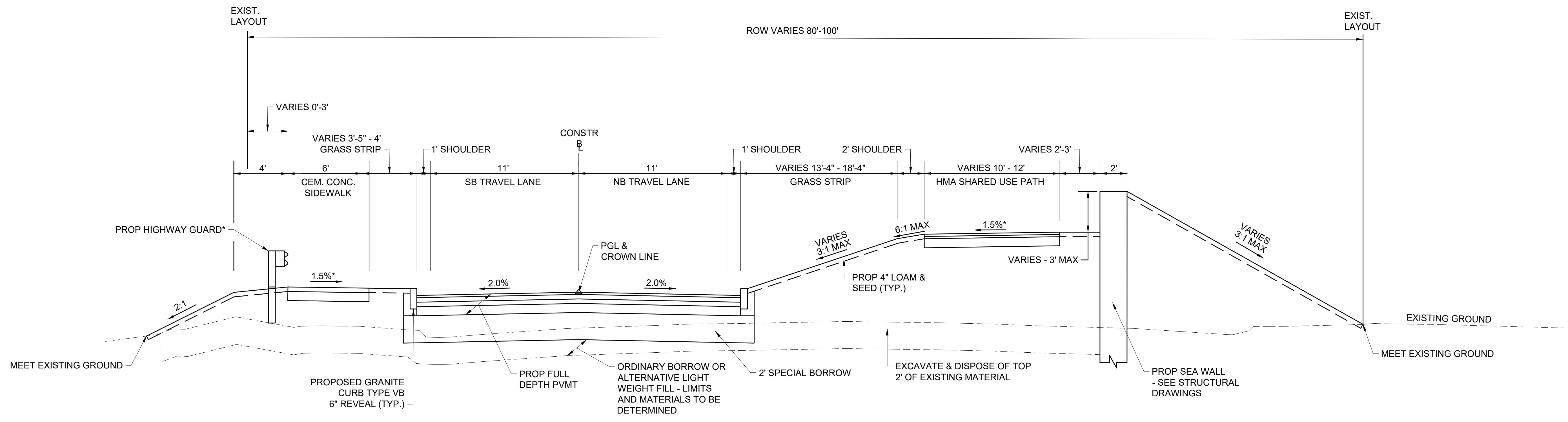
TYPICAL SECTION
 STA 104+25 TO STA 107+27
 NTS



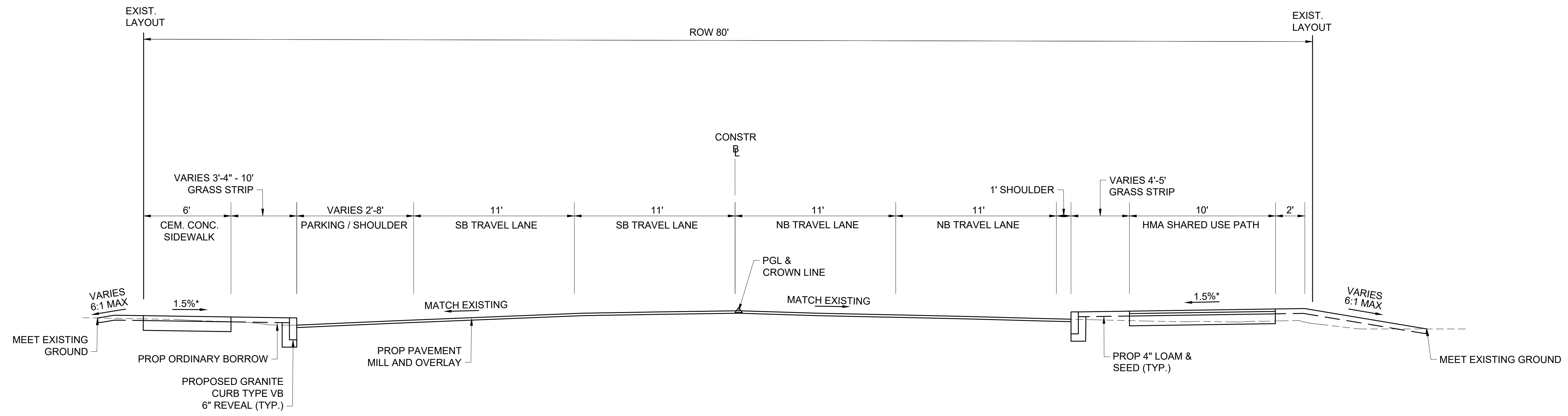
TYPICAL SECTION
 STA 104+25 TO STA 114+43
 NTS
 *PROPOSED WALL BEGINS AT STA 17+63



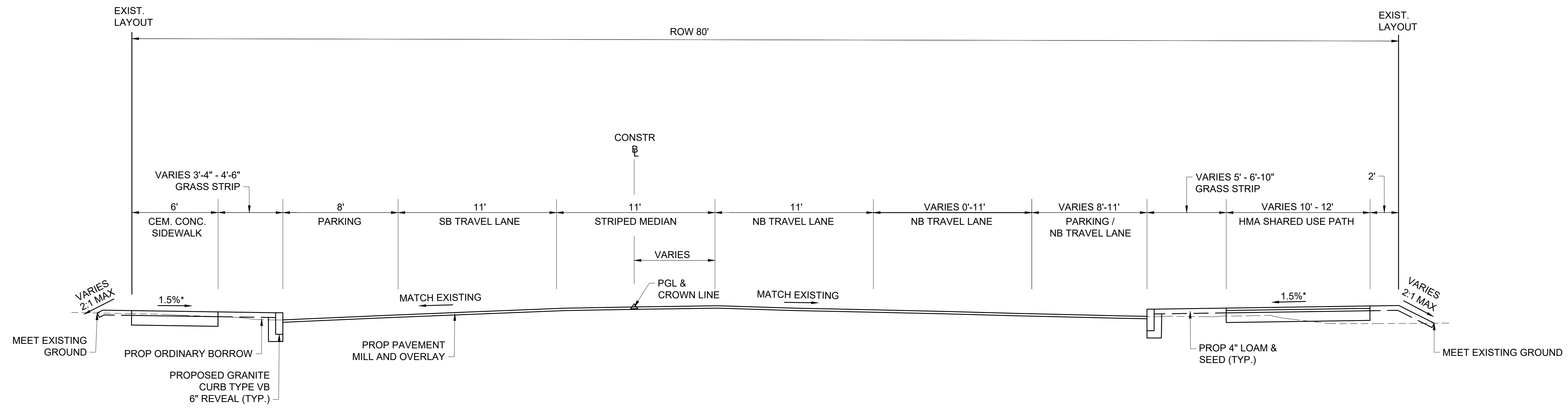
TYPICAL SECTION
 STA 116+50 TO STA 120+00
 NTS



TYPICAL SECTION
 STA 114+43 TO STA 116+50
 NTS
 *END HIGHWAY GUARD STA 25+27

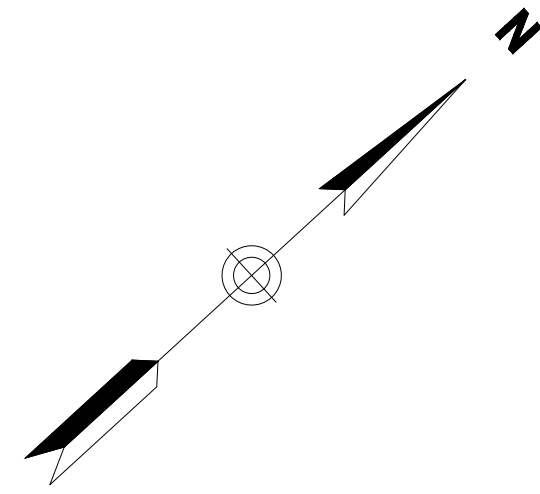


TYPICAL SECTION
 STA 123+80 TO STA 125+87
 STA 126+85 TO STA 128+53
 NTS

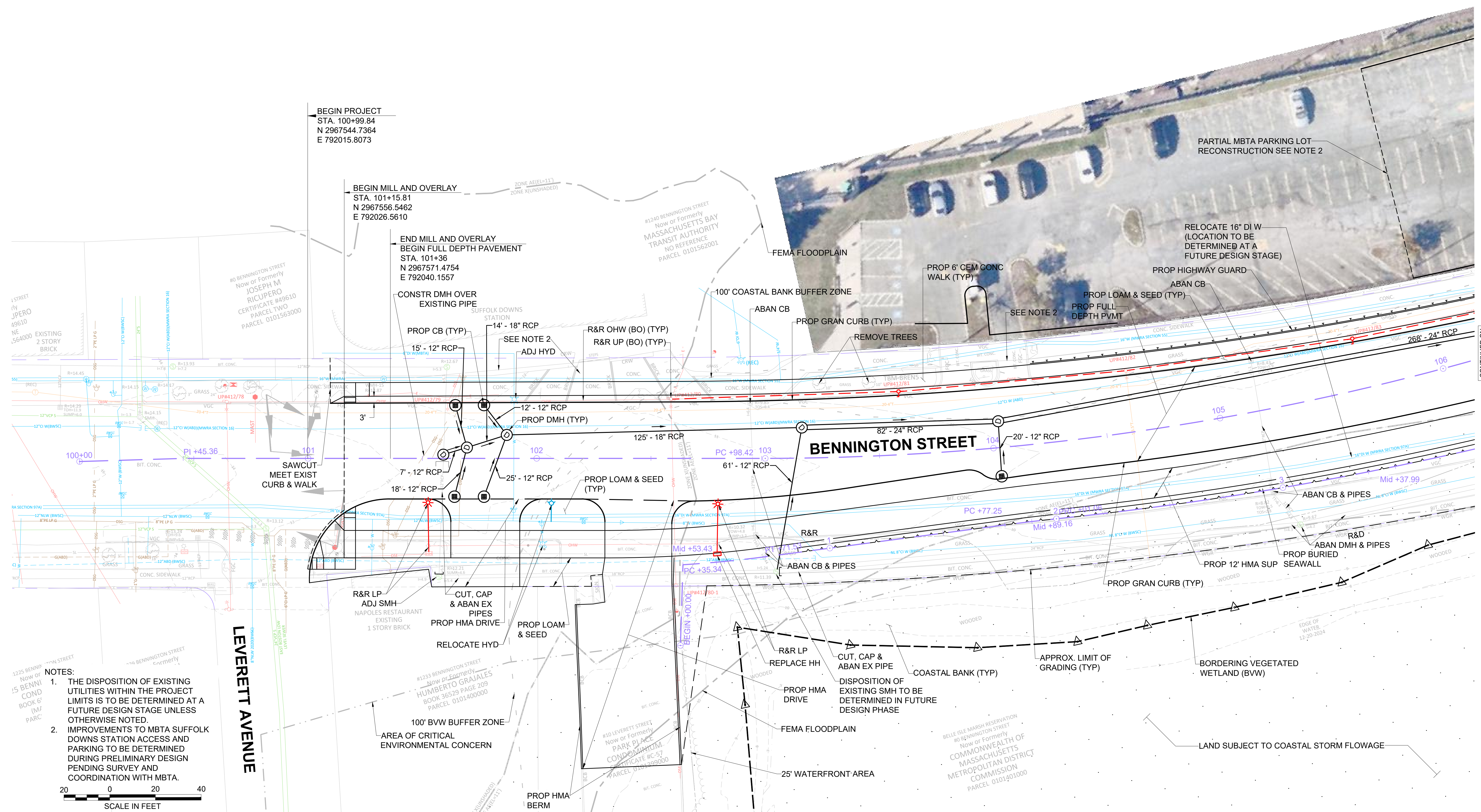


TYPICAL SECTION
 STA 120+00 TO STA 123+80
 NTS

*NB TRAVEL LANE TRANSITION BEGINS AT STA 32+35



16234-01-GEN.DWG Plotted on 13-Jun-2025 11:34 AM



BEGIN PROJECT
STA. 100+99.84
N 2967544.7364
E 792015.8073

BEGIN MILL AND OVERLAY
STA. 101+15.81
N 2967556.5462
E 792026.5610

END MILL AND OVERLAY
BEGIN FULL DEPTH PAVEMENT
STA. 101+36
N 2967571.4754
E 792040.1557

PARTIAL MBTA PARKING LOT
RECONSTRUCTION SEE NOTE 2

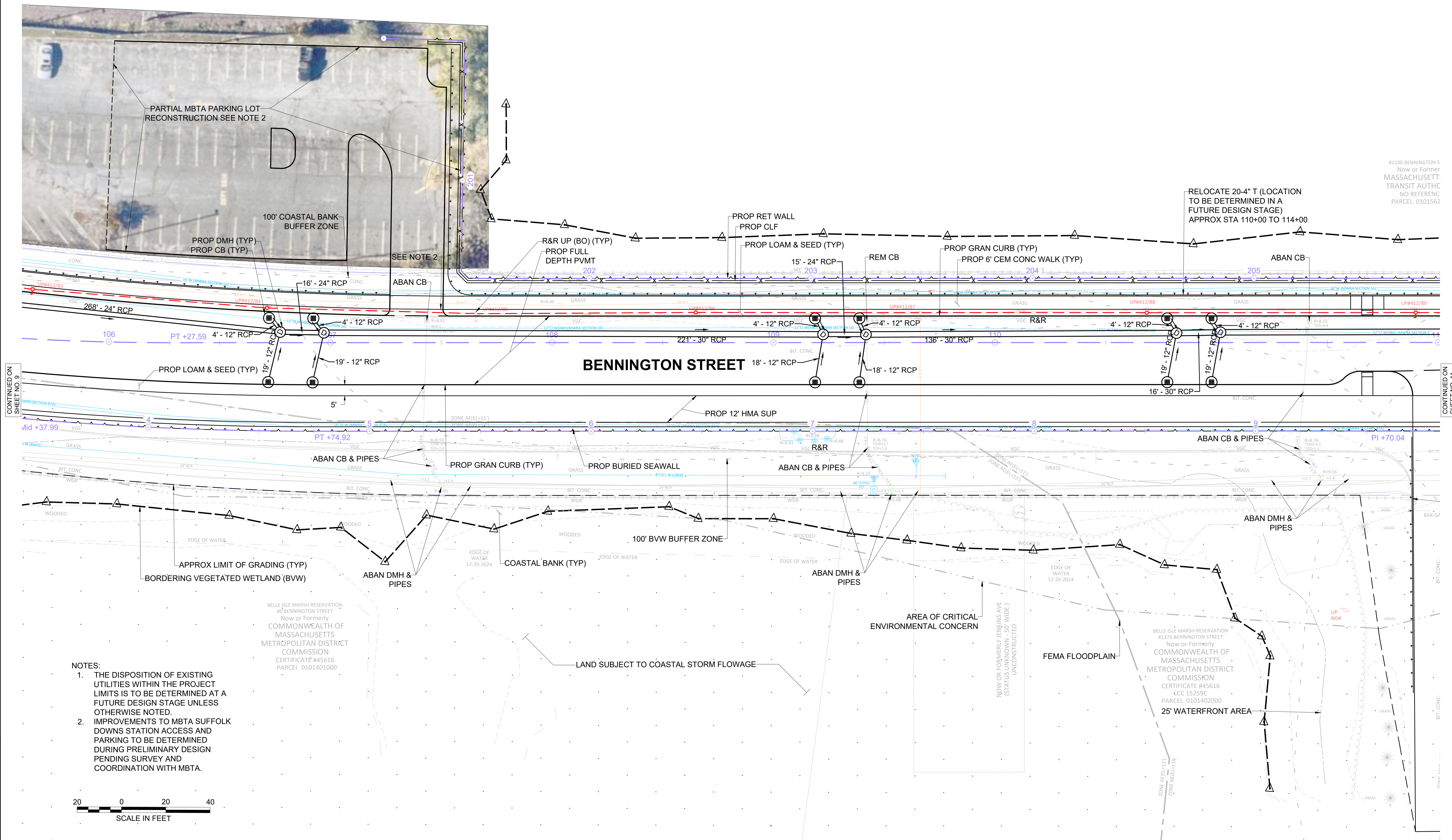
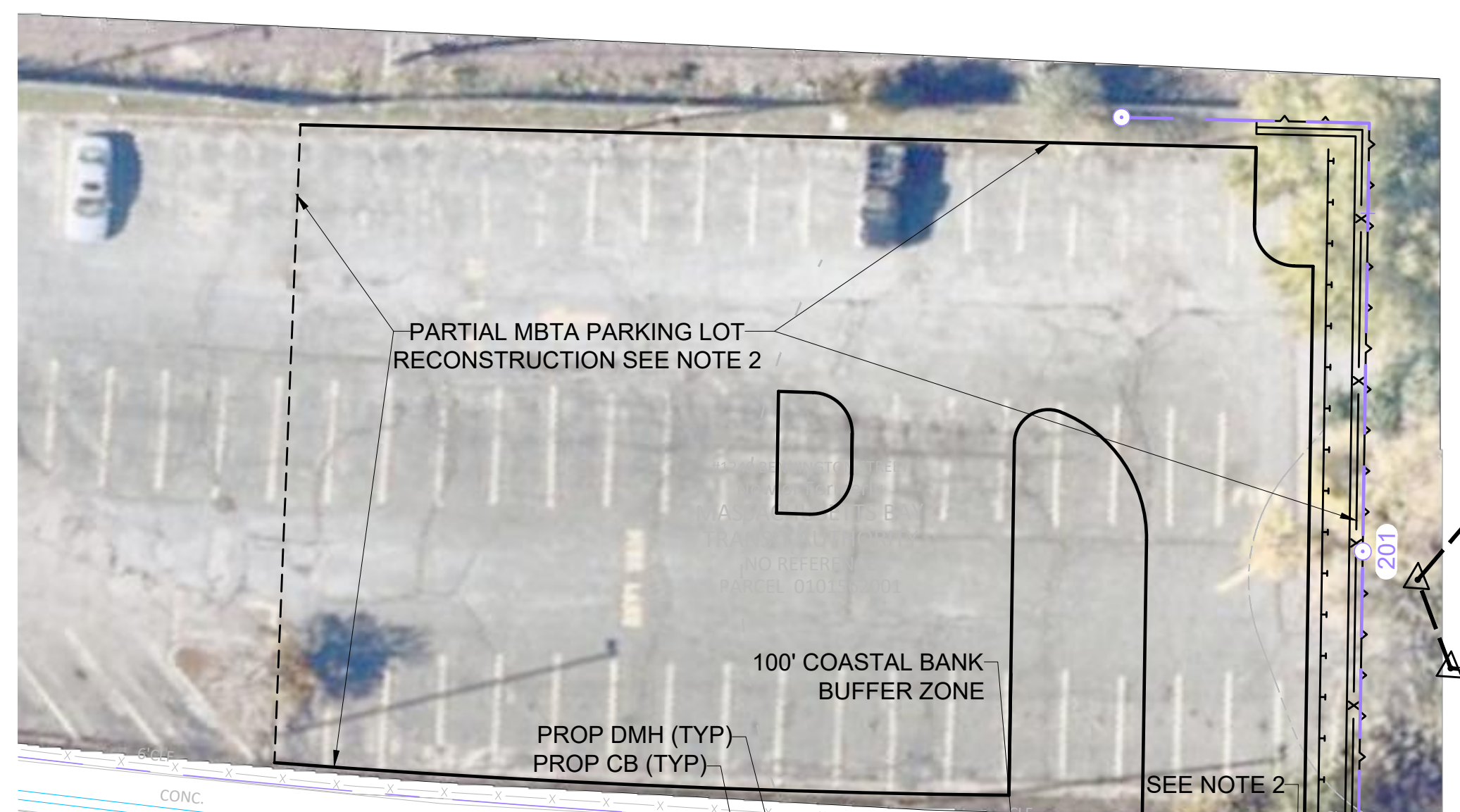
RELOCATE 16" DI W
(LOCATION TO BE
DETERMINED AT A
FUTURE DESIGN STAGE)

- NOTES:
1. THE DISPOSITION OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS IS TO BE DETERMINED AT A FUTURE DESIGN STAGE UNLESS OTHERWISE NOTED.
 2. IMPROVEMENTS TO MBTA SUFFOLK DOWNS STATION ACCESS AND PARKING TO BE DETERMINED DURING PRELIMINARY DESIGN PENDING SURVEY AND COORDINATION WITH MBTA.

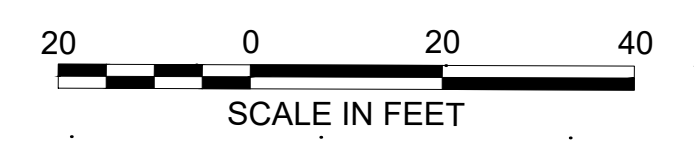


CONTINUED ON
SHEET NO. 10

FOR CONSTRUCTION PROFILE:
SEE SHEET NO. 14



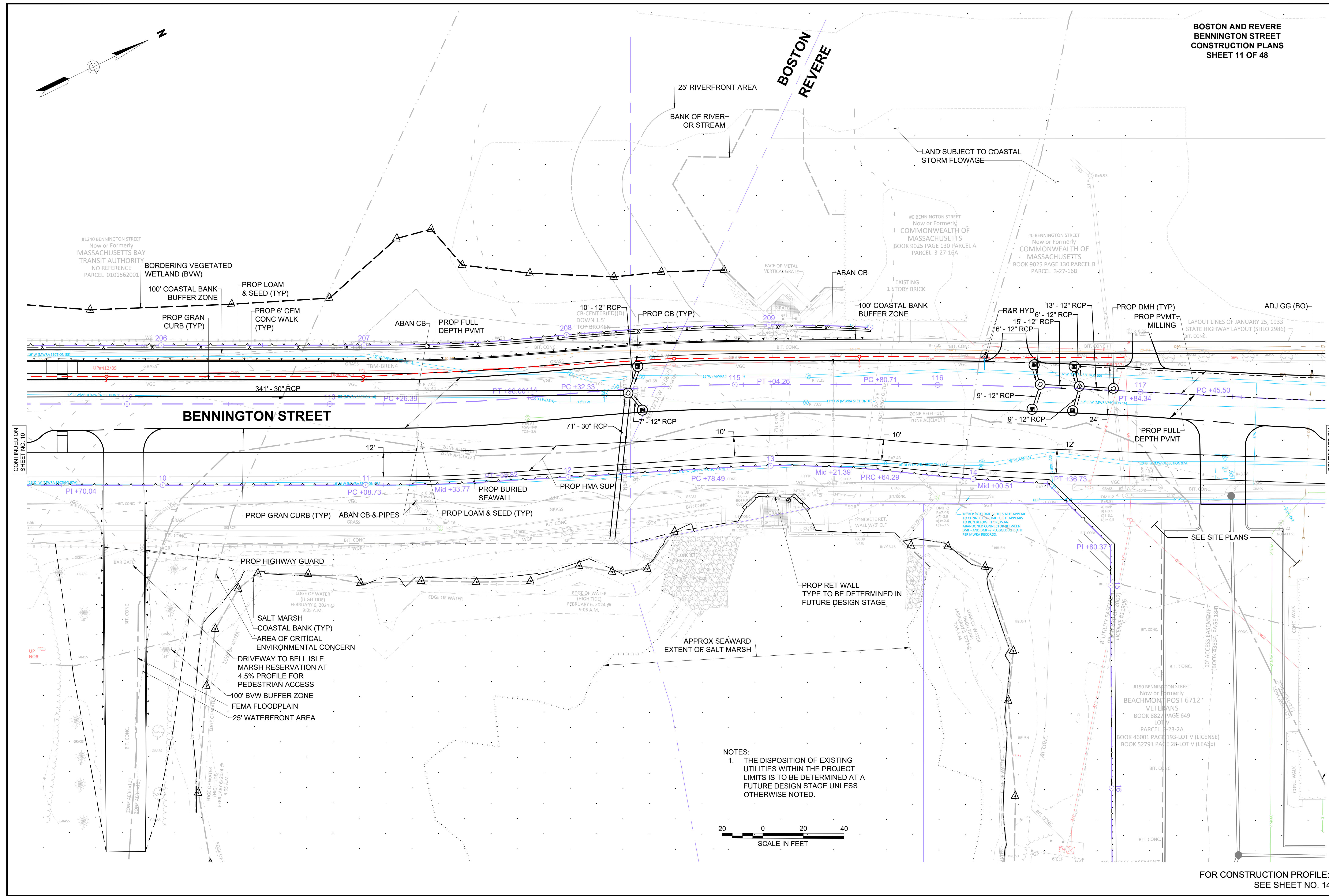
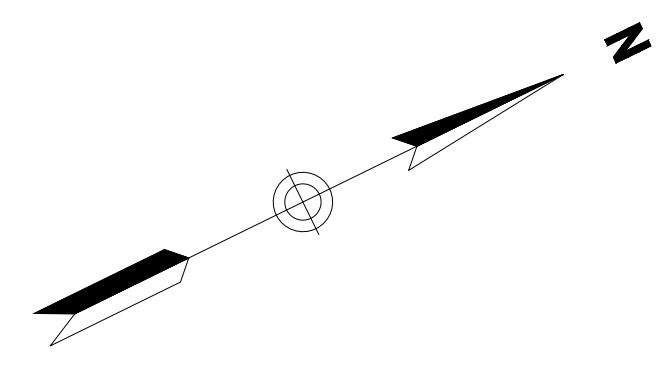
- NOTES:
1. THE DISPOSITION OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS IS TO BE DETERMINED AT A FUTURE DESIGN STAGE UNLESS OTHERWISE NOTED.
 2. IMPROVEMENTS TO MBTA SUFFOLK DOWNS STATION ACCESS AND PARKING TO BE DETERMINED DURING PRELIMINARY DESIGN PENDING SURVEY AND COORDINATION WITH MBTA.



BELLE ISLE MARSH RESERVATION
#1375 BENNINGTON STREET
Now or Formerly
COMMONWEALTH OF
MASSACHUSETTS
METROPOLITAN DISTRICT
COMMISSION
CERTIFICATE #45616
PARCEL 0101401000

BELLE ISLE MARSH RESERVATION
#1375 BENNINGTON STREET
Now or Formerly
COMMONWEALTH OF
MASSACHUSETTS
METROPOLITAN DISTRICT
COMMISSION
CERTIFICATE #45616
+CC 15259C
PARCEL 0101402000
25' WATERFRONT AREA

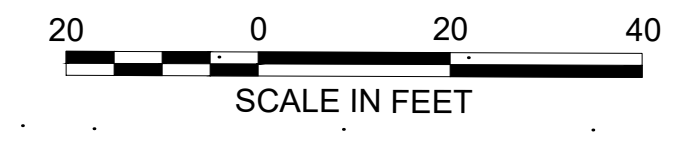
FOR CONSTRUCTION PROFILE:
SEE SHEET NO. 14



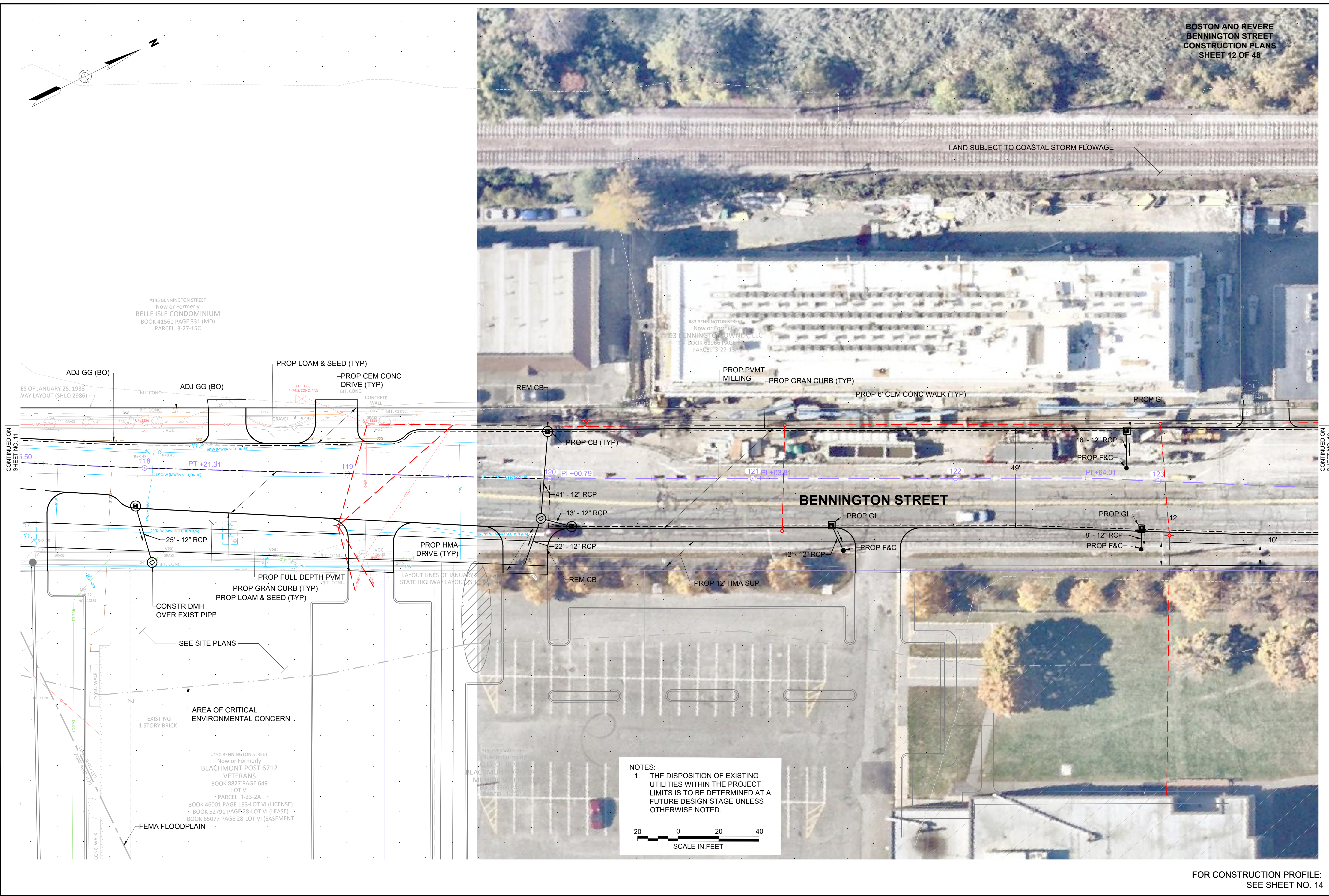
CONTINUED ON
 SHEET NO. 10

CONTINUED ON
 SHEET NO. 12

NOTES:
 1. THE DISPOSITION OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS IS TO BE DETERMINED AT A FUTURE DESIGN STAGE UNLESS OTHERWISE NOTED.



FOR CONSTRUCTION PROFILE:
 SEE SHEET NO. 14



#145 BENNINGTON STREET
Now or Formerly
BELLE ISLE CONDOMINIUM
BOOK 41561 PAGE 331 (MD)
PARCEL 3-27-15C

#183 BENNINGTON STREET
Now or Formerly
93 BENNINGTON OWNER, LLC
BOOK 63966 PAGE 1
PARCEL 3-27-15A

#150 BENNINGTON STREET
Now or Formerly
BEACHMONT POST 6712
VETERANS
BOOK 8827 PAGE 649
LOT VI
PARCEL 3-23-2A
BOOK 46001 PAGE 193-LOT VI (LICENSE)
BOOK 52791 PAGE 28-LOT VI (LEASE)
BOOK 65077 PAGE 28-LOT VI (EASEMENT)

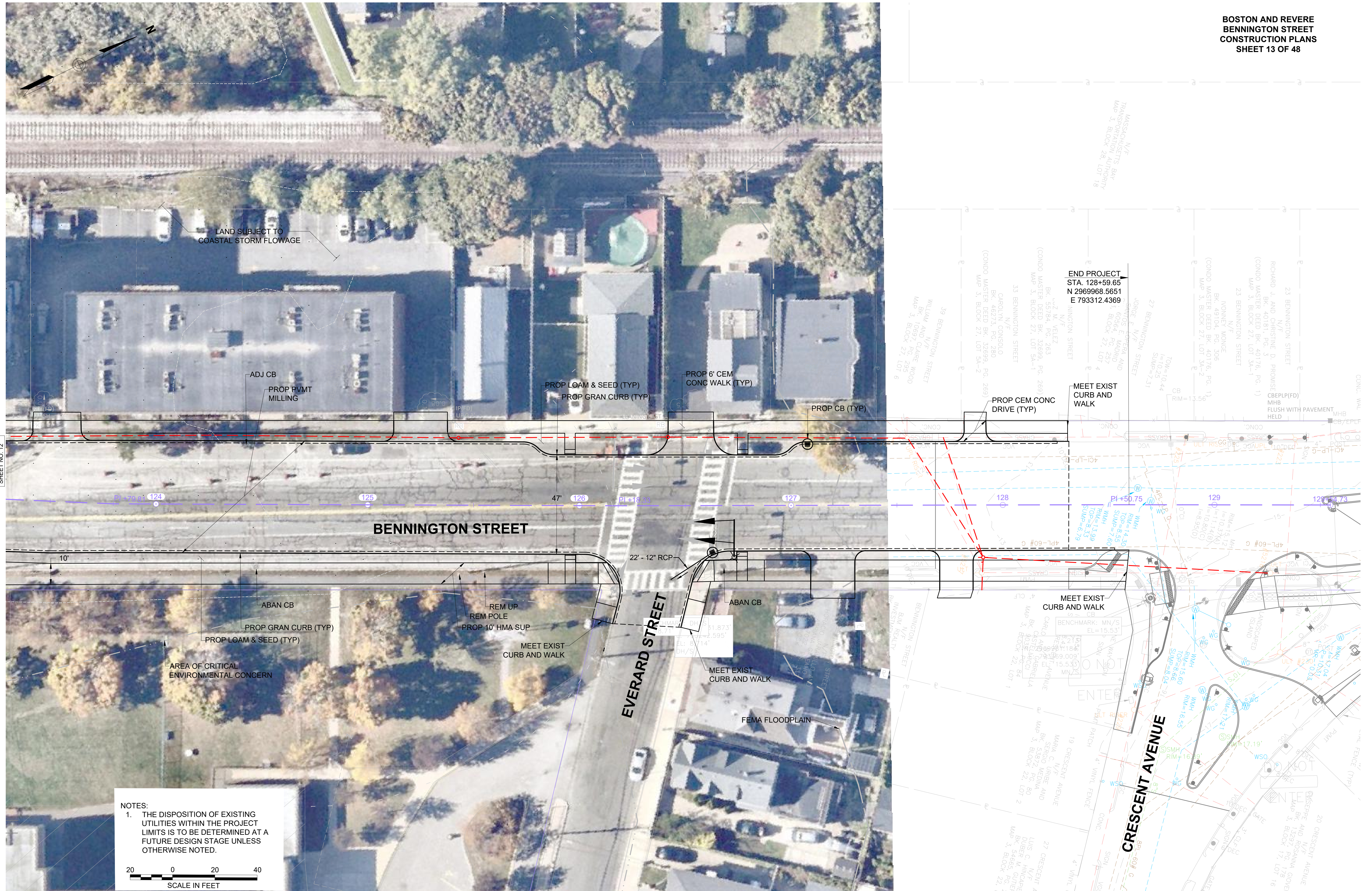
NOTES:
1. THE DISPOSITION OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS IS TO BE DETERMINED AT A FUTURE DESIGN STAGE UNLESS OTHERWISE NOTED.

20 0 20 40
SCALE IN FEET

FOR CONSTRUCTION PROFILE:
SEE SHEET NO. 14

CONTINUED ON
SHEET NO. 11

CONTINUED ON
SHEET NO. 13



CONTINUED ON
SHEET NO. 12

NOTES:

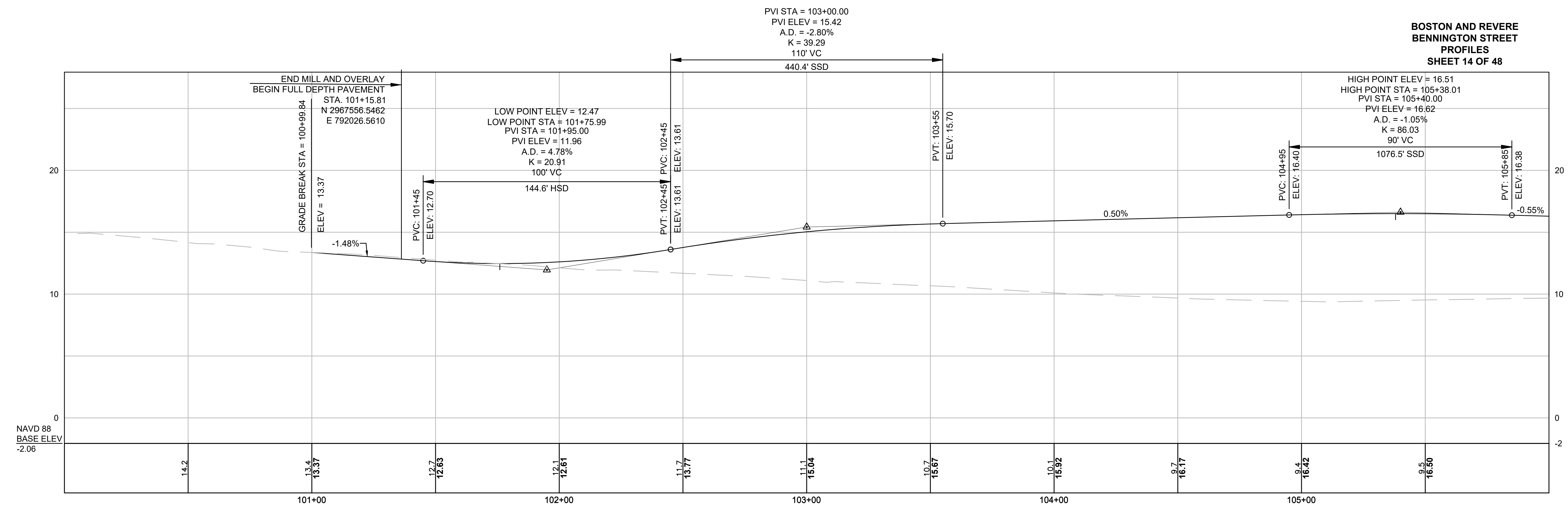
1. THE DISPOSITION OF EXISTING UTILITIES WITHIN THE PROJECT LIMITS IS TO BE DETERMINED AT A FUTURE DESIGN STAGE UNLESS OTHERWISE NOTED.

SCALE IN FEET

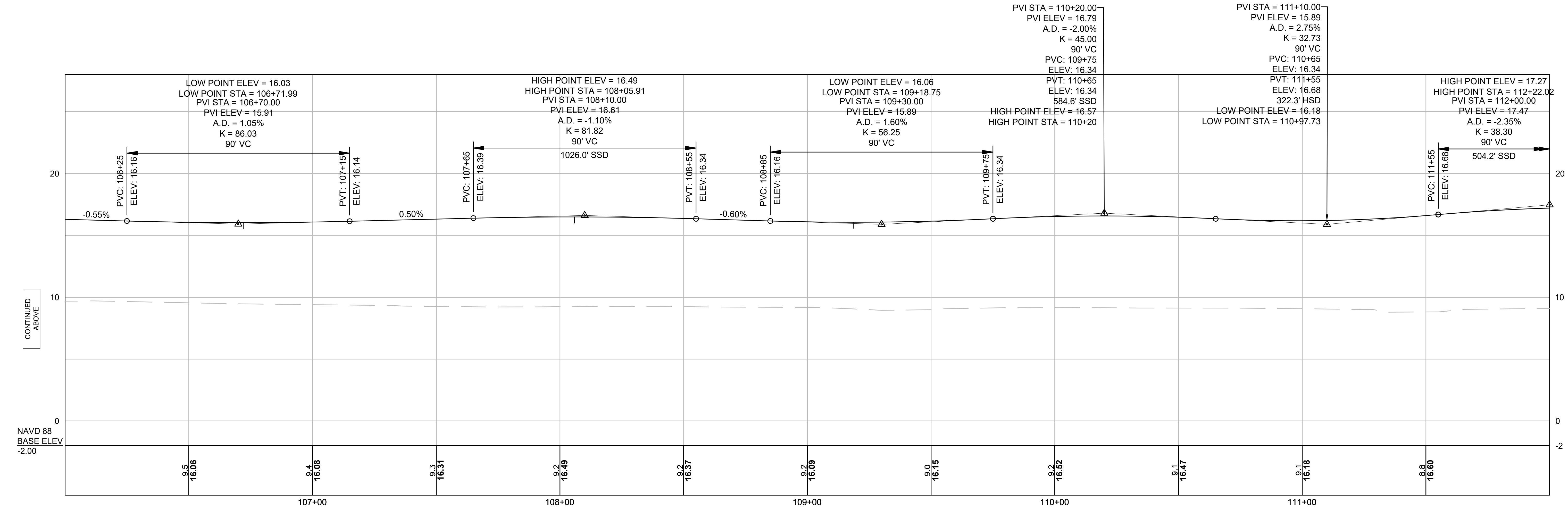
FOR CONSTRUCTION PROFILE:
SEE SHEET NO. 14

**BOSTON AND REVERE
BENNINGTON STREET
PROFILES
SHEET 14 OF 48**

16234.01-PROFILE.DWG Plotted on 13-Jun-2025 10:52 AM

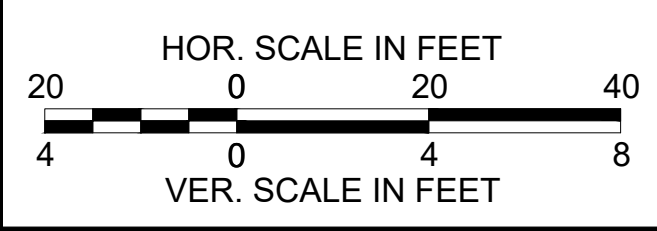


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BELOW

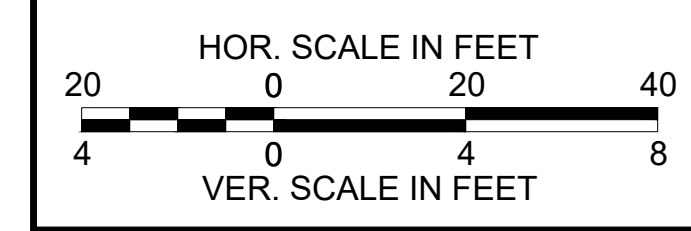
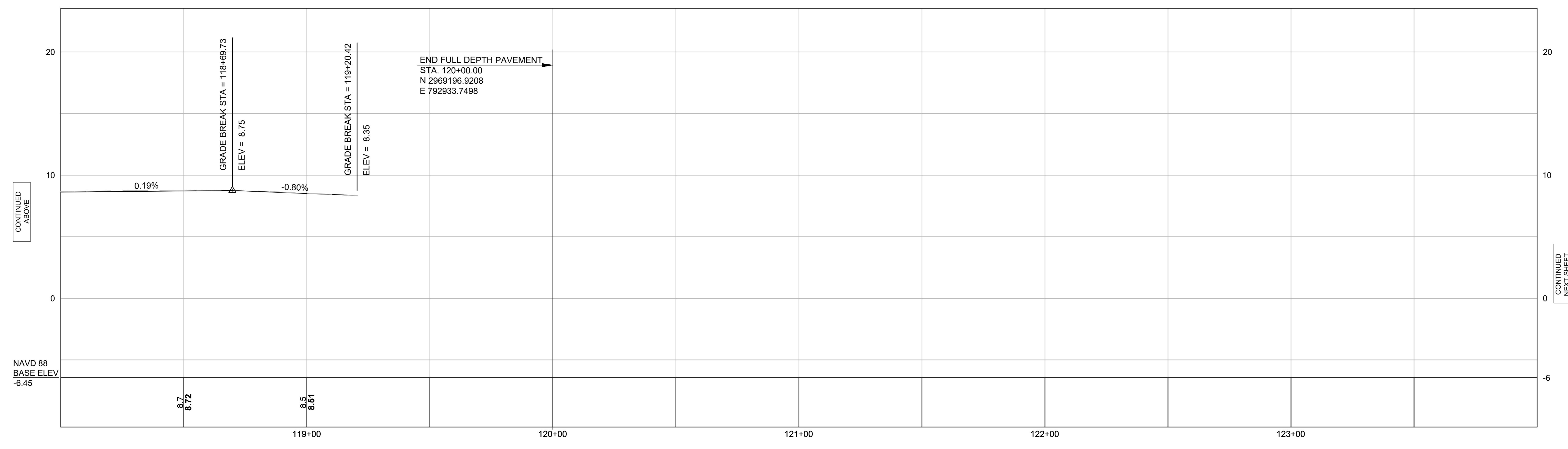
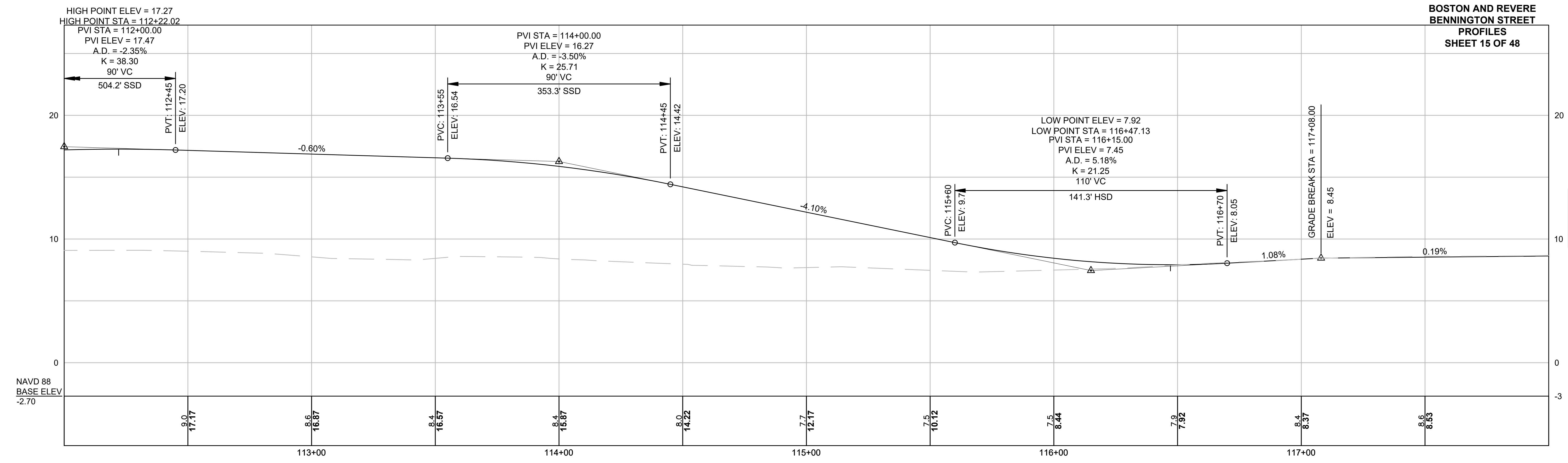


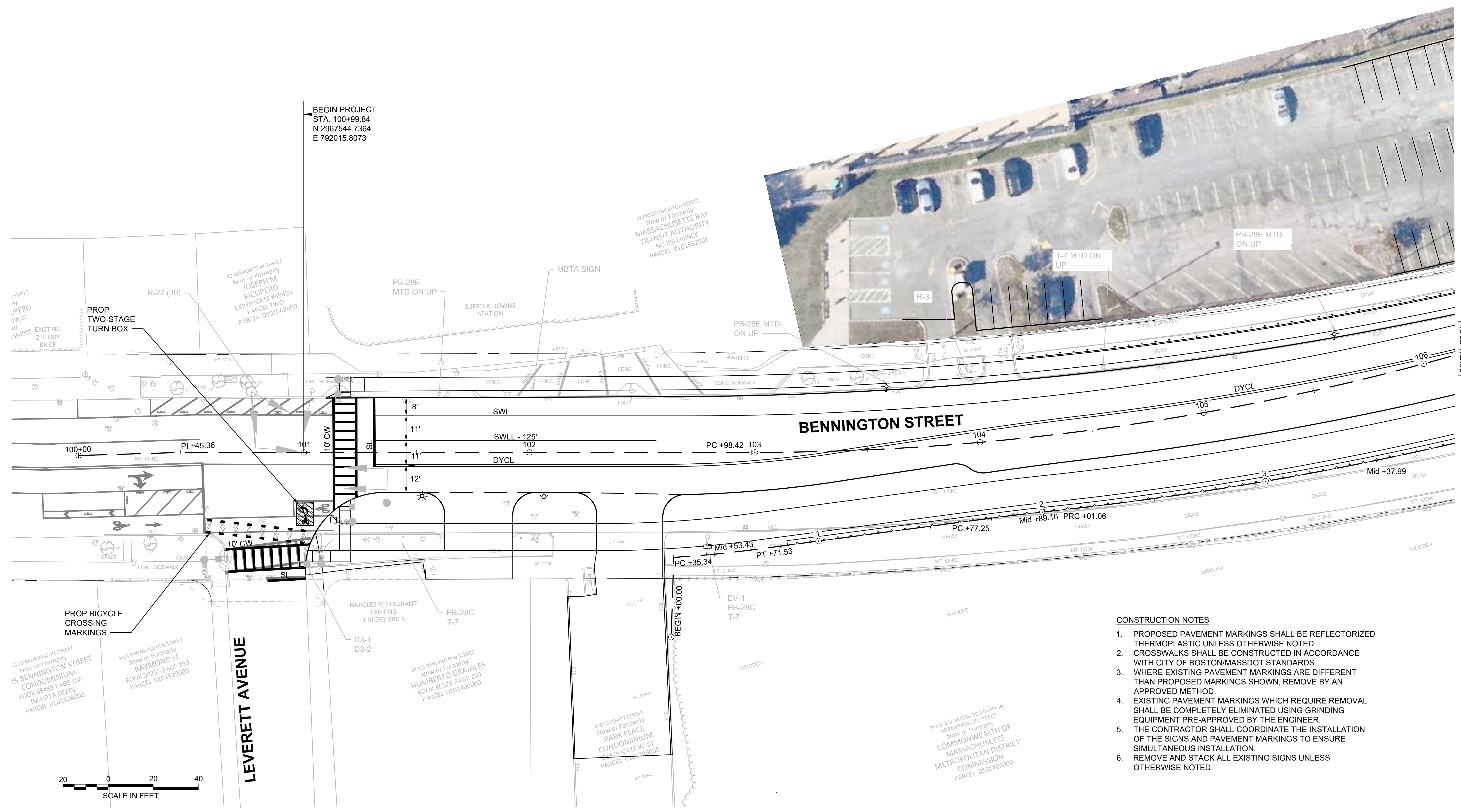
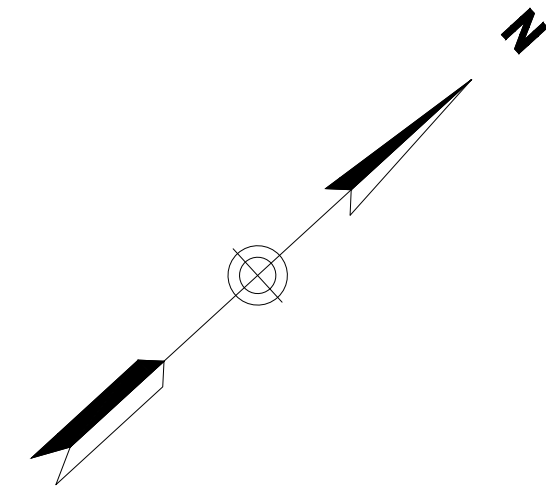
CONTINUED
ABOVE

CONTINUED
NEXT SHEET



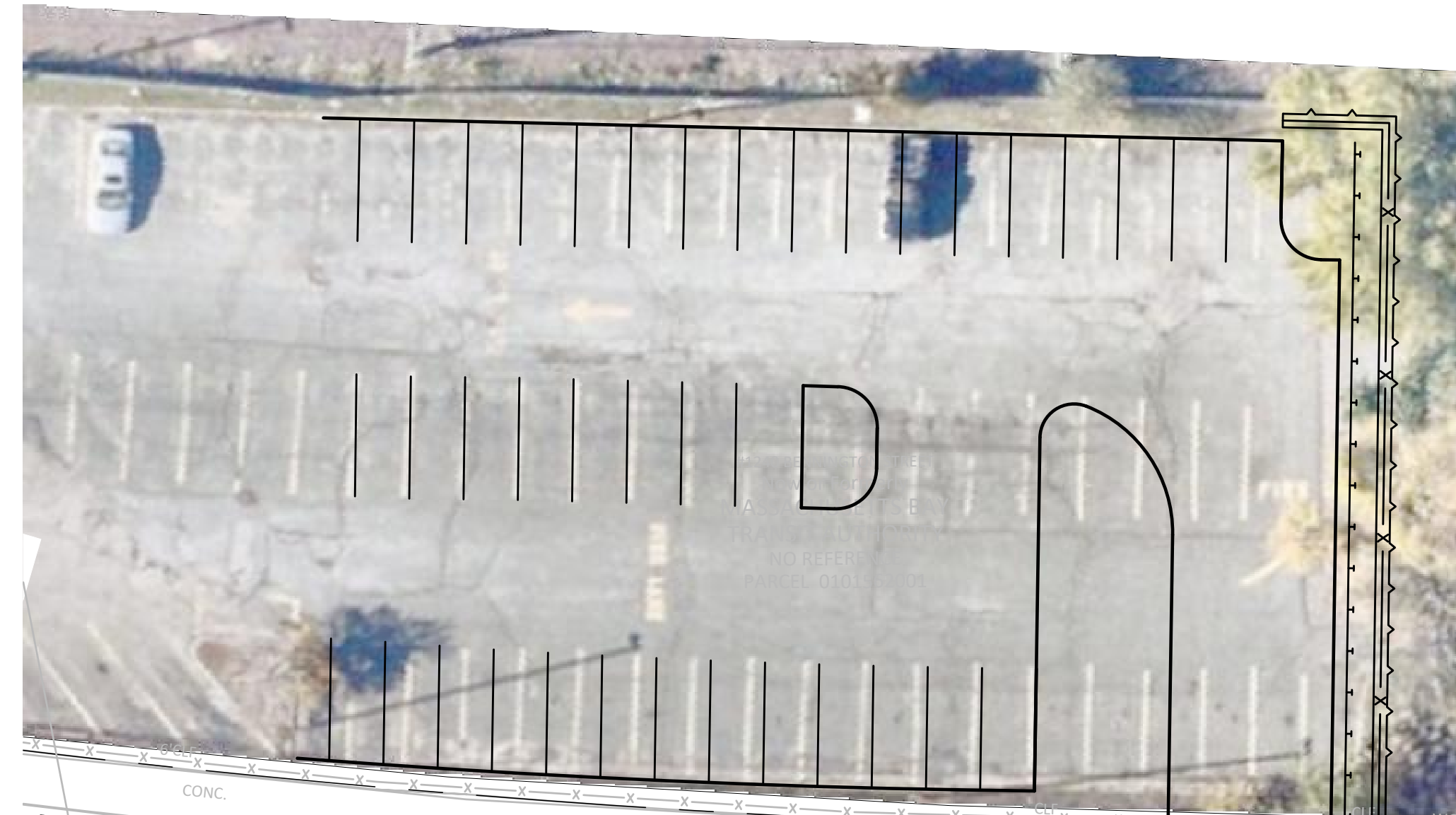
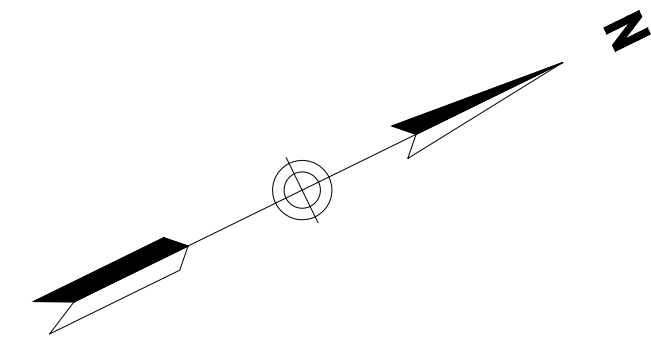
FOR CONSTRUCTION PLANS:
NOS. 9-13





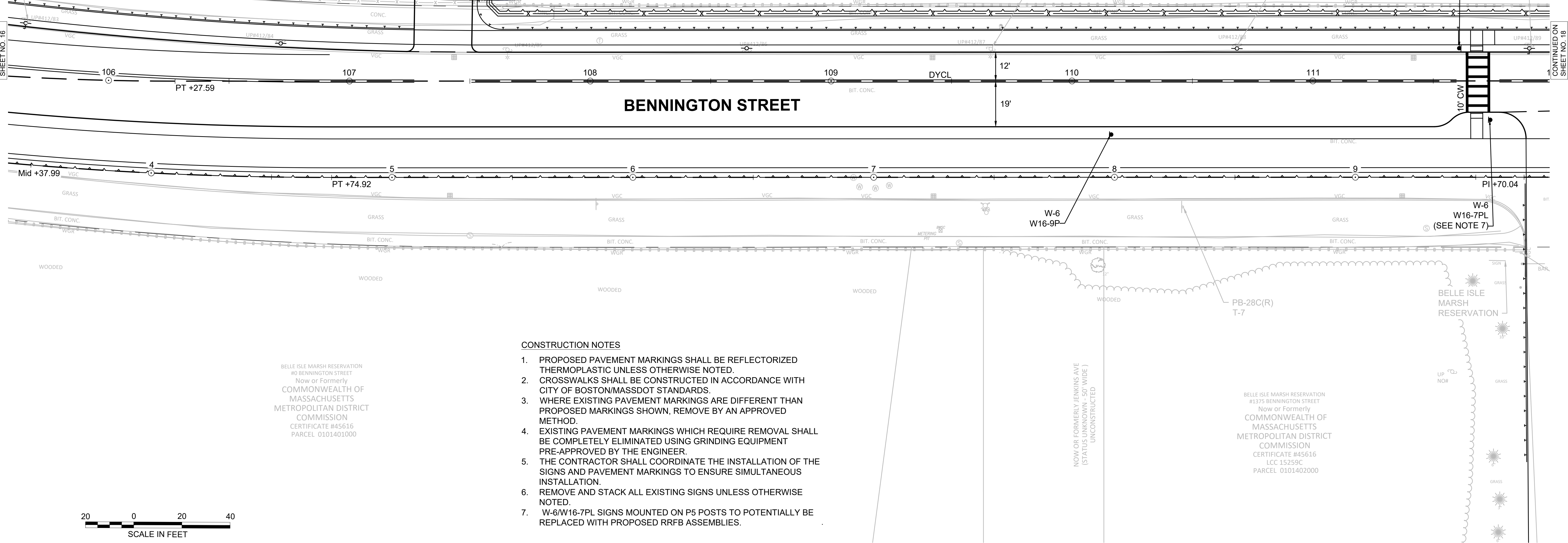
- CONSTRUCTION NOTES**
1. PROPOSED PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
 2. CROSSWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOSTON/MASSDOT STANDARDS.
 3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
 4. EXISTING PAVEMENT MARKINGS WHICH REQUIRE REMOVAL SHALL BE COMPLETELY ELIMINATED USING GRINDING EQUIPMENT PRE-APPROVED BY THE ENGINEER.
 5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SIGNS AND PAVEMENT MARKINGS TO ENSURE SIMULTANEOUS INSTALLATION.
 6. REMOVE AND STACK ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.

CONTINUED ON SHEET NO. 17



CONTINUED ON
 SHEET NO. 16

CONTINUED ON
 SHEET NO. 18



PB-28E
 \$1000 FINE
 DISPOSAL OF
 RUBBISH MTD
 ON UP

#1240 BENNINGTON
 Now or Form
 MASSACHUSET
 TRANSIT AUTH
 NO REFEREN
 PARCEL 010151

W-6
 W16-7PL
 (SEE NOTE 7)

W-6
 W16-7PL
 (SEE NOTE 7)

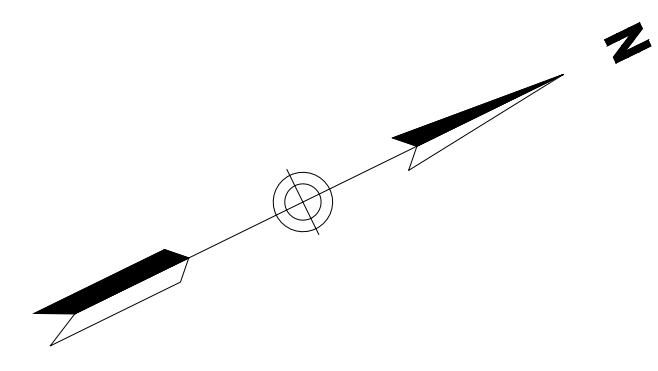
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5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SIGNS AND PAVEMENT MARKINGS TO ENSURE SIMULTANEOUS INSTALLATION.
6. REMOVE AND STACK ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.
7. W-6/W16-7PL SIGNS MOUNTED ON P5 POSTS TO POTENTIALLY BE REPLACED WITH PROPOSED RRFB ASSEMBLIES.

BELLE ISLE MARSH RESERVATION
 #10 BENNINGTON STREET
 Now or Formerly
 COMMONWEALTH OF
 MASSACHUSETTS
 METROPOLITAN DISTRICT
 COMMISSION
 CERTIFICATE #45616
 PARCEL 0101401000

BELLE ISLE MARSH RESERVATION
 #1375 BENNINGTON STREET
 Now or Formerly
 COMMONWEALTH OF
 MASSACHUSETTS
 METROPOLITAN DISTRICT
 COMMISSION
 CERTIFICATE #45616
 LCC 15259C
 PARCEL 0101402000





**BOSTON
REVERE**

PB-28E
\$1000 FINE
DISPOSAL OF
RUBBISH MTD
ON UP

#1240 BENNINGTON STREET
Now or Formerly
MASSACHUSETTS BAY
TRANSIT AUTHORITY
NO REFERENCE
PARCEL 0101562001

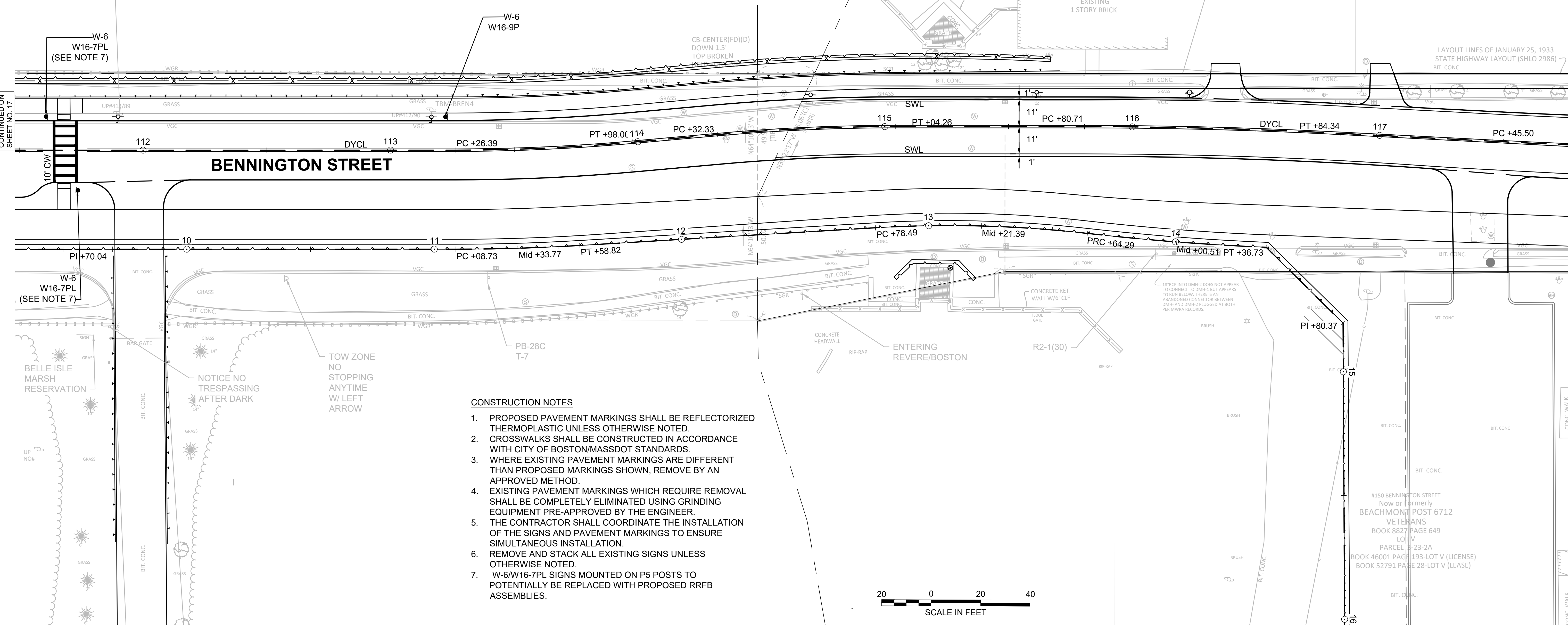
#0 BENNINGTON STREET
Now or Formerly
COMMONWEALTH OF
MASSACHUSETTS
BOOK 9025 PAGE 130 PARCEL A
PARCEL 3-27-16A

#0 BENNINGTON STREET
Now or Formerly
COMMONWEALTH OF
MASSACHUSETTS
BOOK 9025 PAGE 130 PARCEL B
PARCEL 3-27-16B

LAYOUT LINES OF JANUARY 25, 1933
STATE HIGHWAY LAYOUT (SHLO 2986)
BIT. CONC.

CONTINUED ON
SHEET NO. 17

CONTINUED ON
SHEET NO. 19



BENNINGTON STREET

- CONSTRUCTION NOTES**
1. PROPOSED PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
 2. CROSSWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOSTON/MASSDOT STANDARDS.
 3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
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 7. W-6/W16-7PL SIGNS MOUNTED ON P5 POSTS TO POTENTIALLY BE REPLACED WITH PROPOSED RRFB ASSEMBLIES.

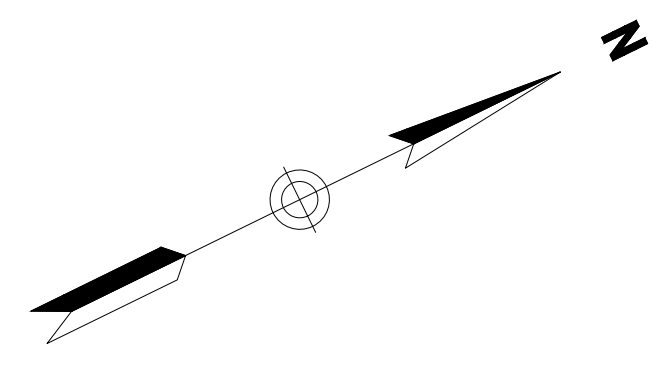


BELLE ISLE
MARSH
RESERVATION

NOTICE NO
TRESPASSING
AFTER DARK

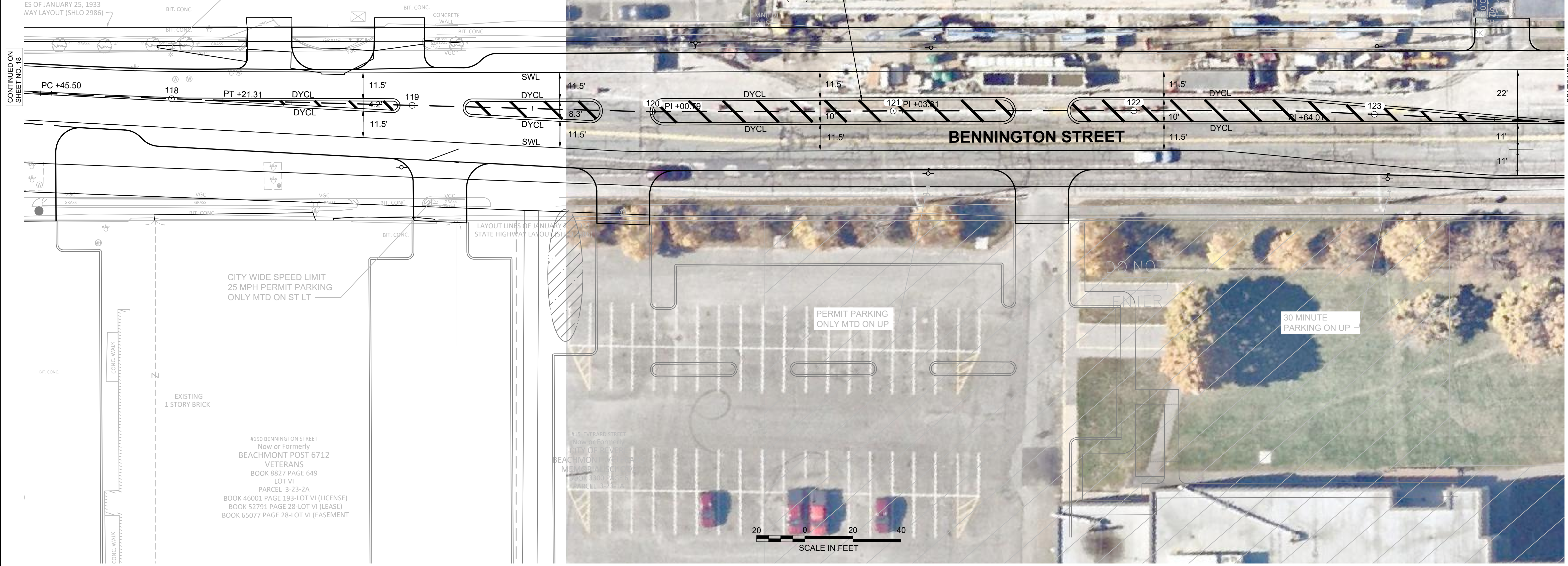
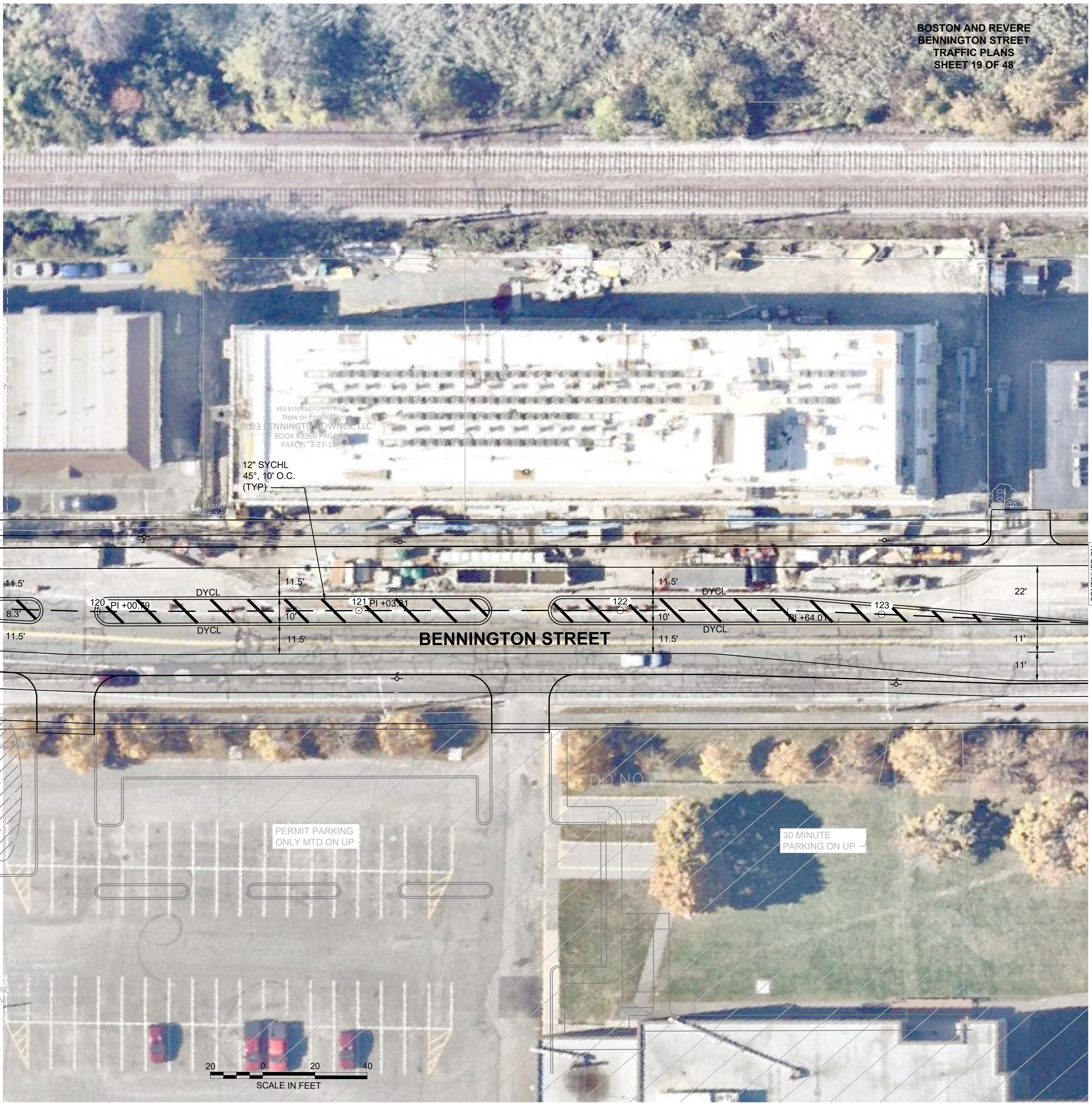
TOW ZONE
NO
STOPPING
ANYTIME
W/ LEFT
ARROW

#150 BENNINGTON STREET
Now or Formerly
BEACHMONT POST 6712
VETERANS
BOOK 882 PAGE 649
LOT 17
PARCEL 1-23-2A
BOOK 46001 PAGE 193-LOT V (LICENSE)
BOOK 52791 PAGE 28-LOT V (LEASE)



CONSTRUCTION NOTES

1. PROPOSED PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. CROSSWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOSTON/MASSDOT STANDARDS.
3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
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5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SIGNS AND PAVEMENT MARKINGS TO ENSURE SIMULTANEOUS INSTALLATION.
6. REMOVE AND STACK ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



#145 BENNINGTON STREET
 Now or Formerly
 BELLE ISLE CONDOMINIUM
 BOOK 41561 PAGE 331 (MD)
 PARCEL 3-27-15C

PERMIT PARKING
 ONLY MTD ON UP

#83 BENNINGTON STREET
 Now or Formerly
 93 BENNINGTON DOWNER, LLC
 BOOK 63966 PAGE 13
 PARCEL 3-27-15A

12" SYCHL
 45°, 10' O.C.
 (TYP)

ES OF JANUARY 25, 1933
 WAY LAYOUT (SHLO 2986)

BIT. CONC.
 BIT. CONC.
 BIT. CONC.
 CONCRETE WALL
 BIT. CONC.
 BIT. CONC.
 VGC

CONTINUED ON
 SHEET NO. 18

CONTINUED ON
 SHEET NO. 20

CITY WIDE SPEED LIMIT
 25 MPH PERMIT PARKING
 ONLY MTD ON ST LT

EXISTING
 1 STORY BRICK

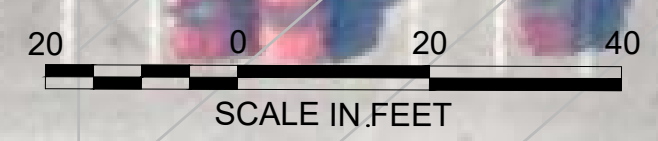
#150 BENNINGTON STREET
 Now or Formerly
 BEACHMONT POST 6712
 VETERANS
 BOOK 8827 PAGE 649
 LOT VI
 PARCEL 3-23-2A
 BOOK 46001 PAGE 193-LOT VI (LICENSE)
 BOOK 52791 PAGE 28-LOT VI (LEASE)
 BOOK 65077 PAGE 28-LOT VI (EASEMENT)

#15 EVERARD STREET
 Now or Formerly
 CITY OF REVERE
 BEACHMONT VETERANS
 MEMORIAL CHURCH
 BOOK 3300 PAGE 1
 PARCEL 3-23-1A

DO NOT
 ENTER

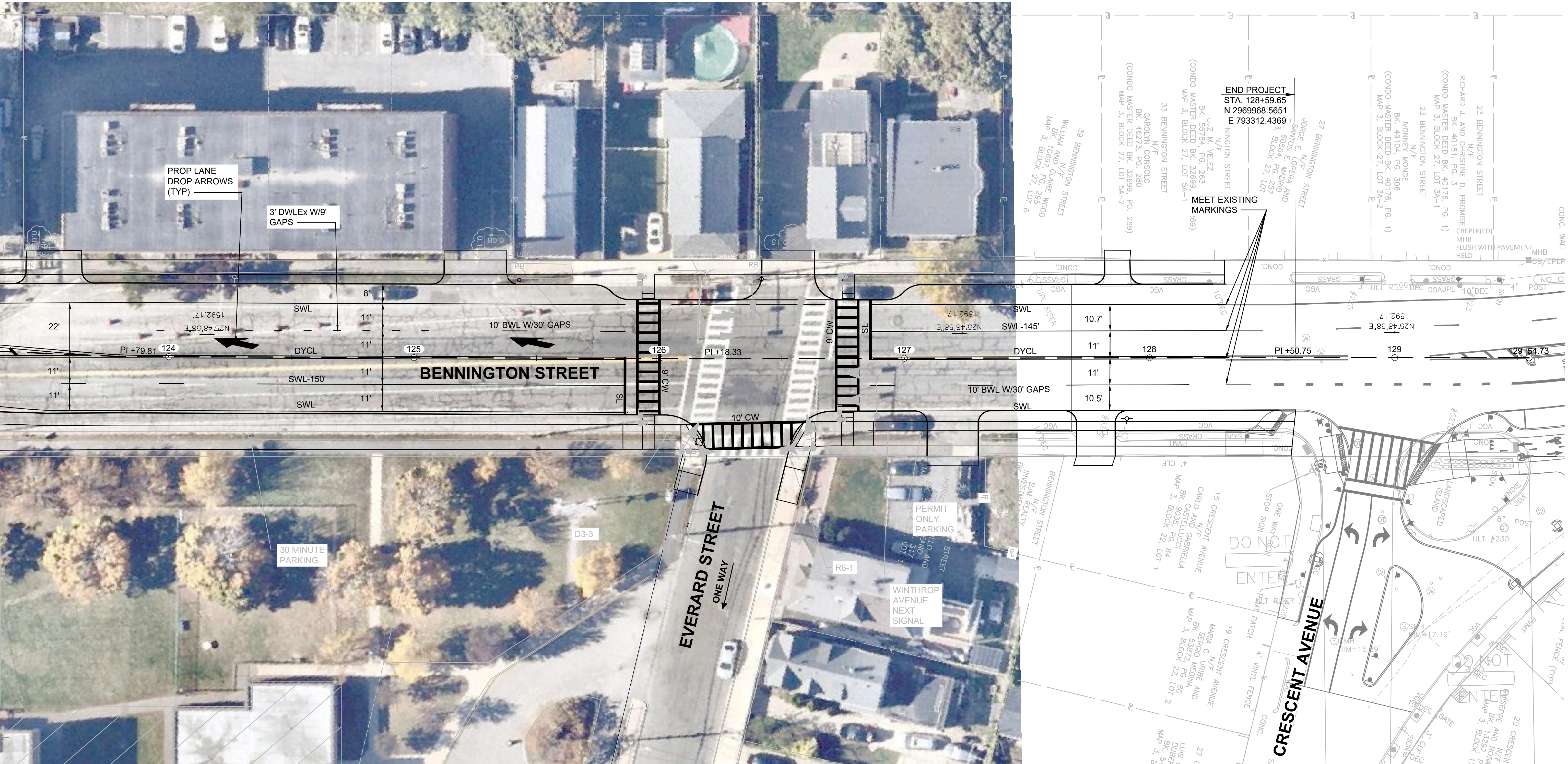
PERMIT PARKING
 ONLY MTD ON UP

30 MINUTE
 PARKING ON UP



CONSTRUCTION NOTES

1. PROPOSED PAVEMENT MARKINGS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. CROSSWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF BOSTON/MASSDOT STANDARDS.
3. WHERE EXISTING PAVEMENT MARKINGS ARE DIFFERENT THAN PROPOSED MARKINGS SHOWN, REMOVE BY AN APPROVED METHOD.
4. EXISTING PAVEMENT MARKINGS WHICH REQUIRE REMOVAL SHALL BE COMPLETELY ELIMINATED USING GRINDING EQUIPMENT PRE-APPROVED BY THE ENGINEER.
5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SIGNS AND PAVEMENT MARKINGS TO ENSURE SIMULTANEOUS INSTALLATION.
6. REMOVE AND STACK ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.



PROP LANE
DROP ARROWS
(TYP)

3' DWLEx W/9'
GAPS

10' BWL W/30' GAPS

BENNINGTON STREET

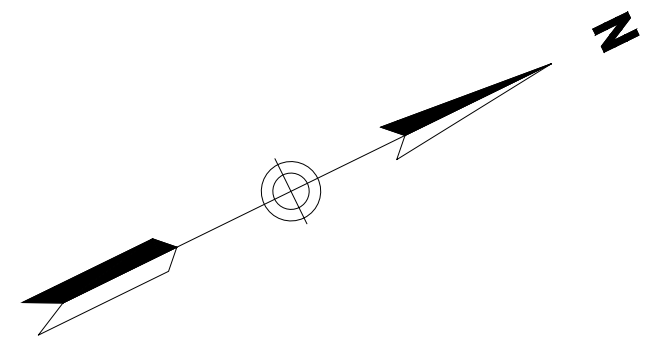
EVERARD STREET
ONE WAY

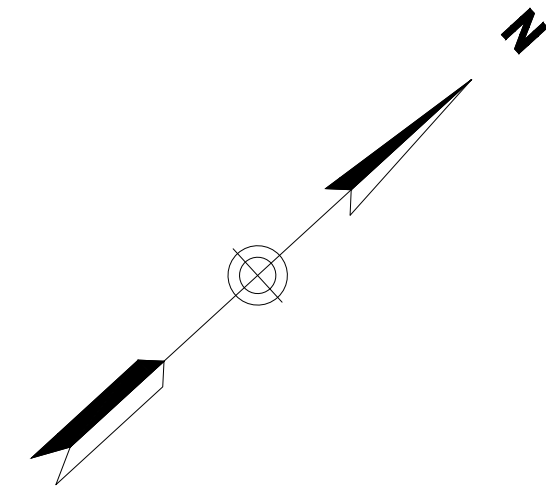
CRESCENT AVENUE

END PROJECT
STA. 128+59.65
N 2969968.5651
E 793312.4369

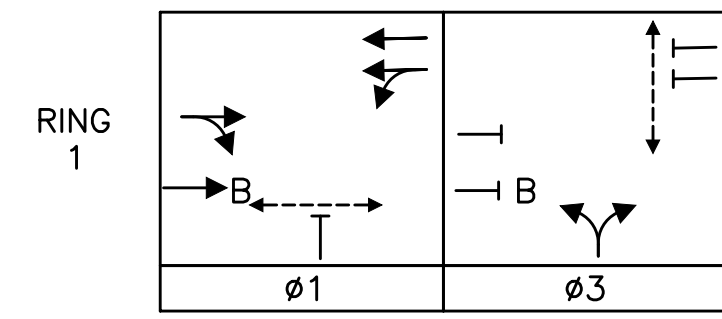
MEET EXISTING
MARKINGS

CONTINUED ON
SHEET NO. 19

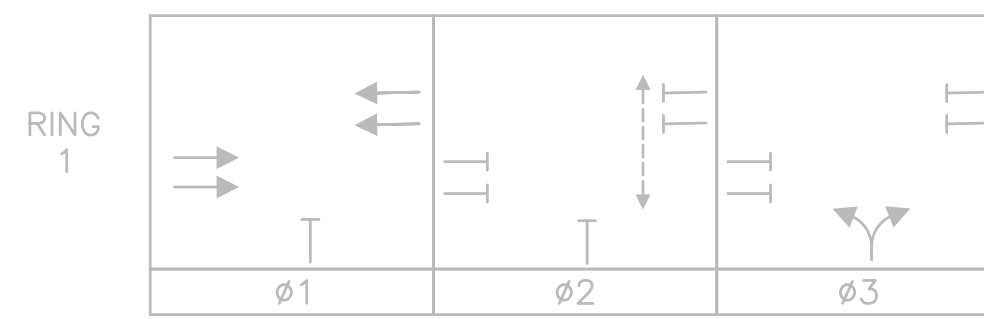




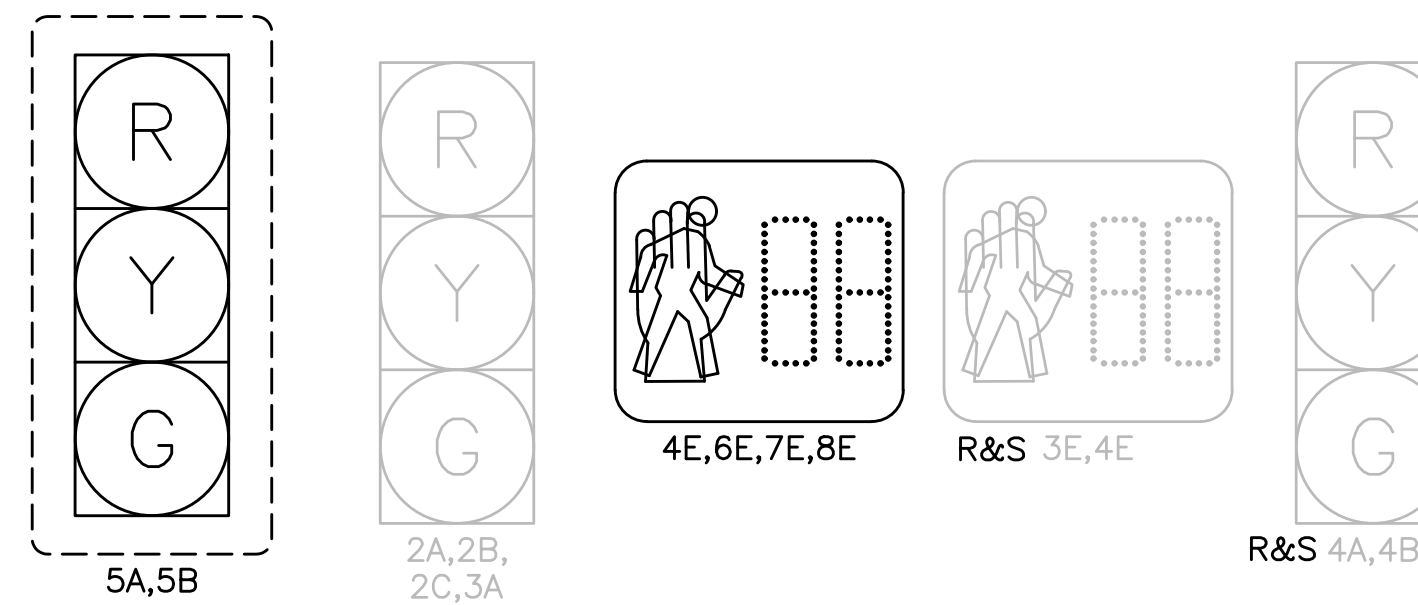
PROPOSED PHASING DIAGRAM



EXISTING PHASING DIAGRAM

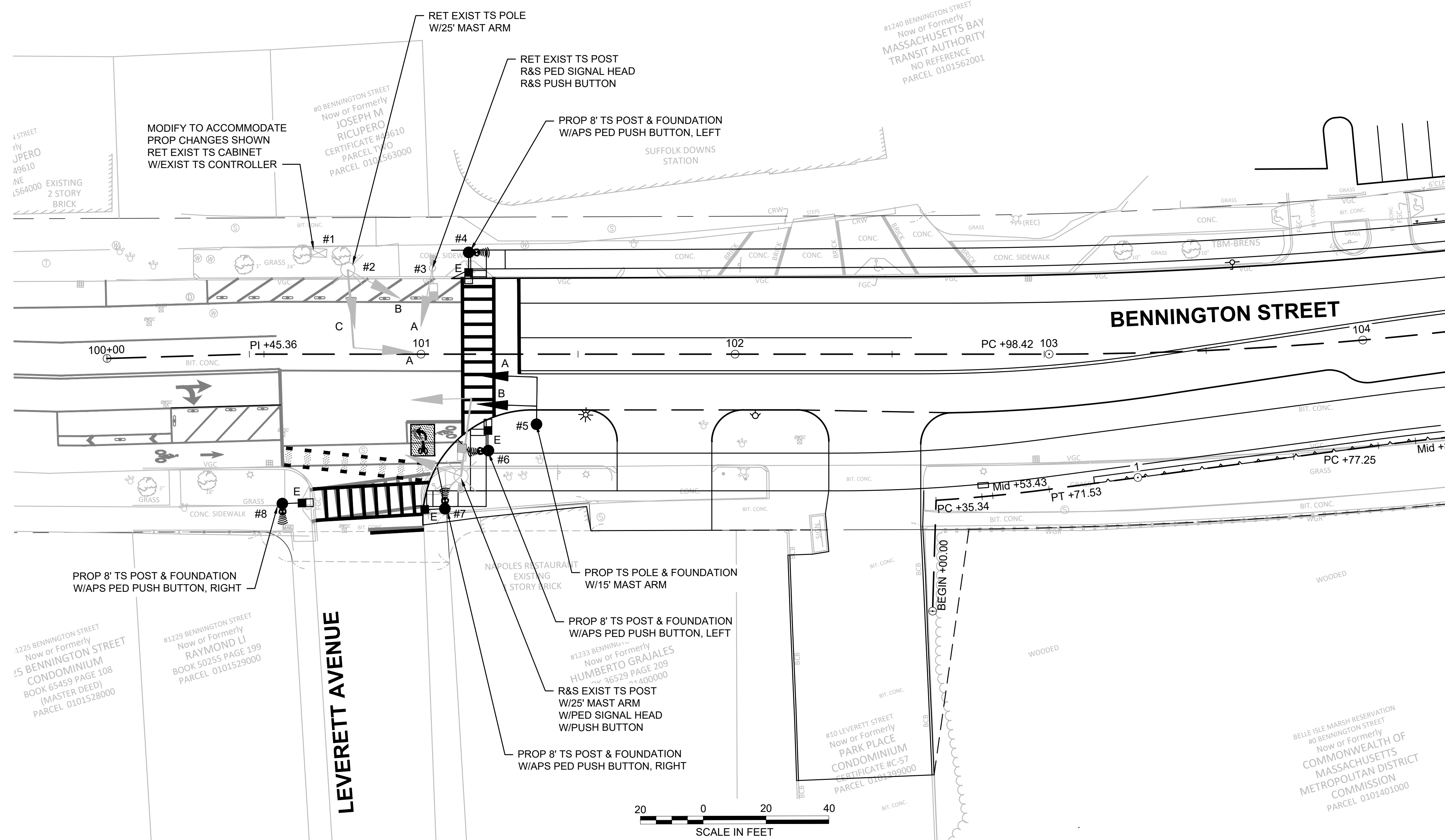


EXISTING/PROPOSED SIGNAL FACES



NOTE:

1. ALL PROPOSED VEHICLE INDICATIONS SHALL BE 12" L.E.D. AND SHALL BE EQUIPPED WITH TUNNEL VISORS.
2. ALL PEDESTRIAN INDICATIONS SHALL BE 16" L.E.D. AND SHALL COUNTDOWN AND BE EQUIPPED WITH SUN CAP VISORS.
3. ALL PROPOSED VEHICLE INDICATIONS MOUNTED ON MAST ARMS SHALL BE RIGID MOUNTED AND BE EQUIPPED WITH 5" NON-LOUVERED BACKPLATES W/2" RETRO-REFLECTIVE YELLOW BORDER.
4. PEDESTRIAN WALK AND DON'T WALK SYMBOLS SHALL BE SOLID-TYPE L.E.D. OUTLINED SYMBOLS SHALL NOT BE USED PER BTS SPECS.



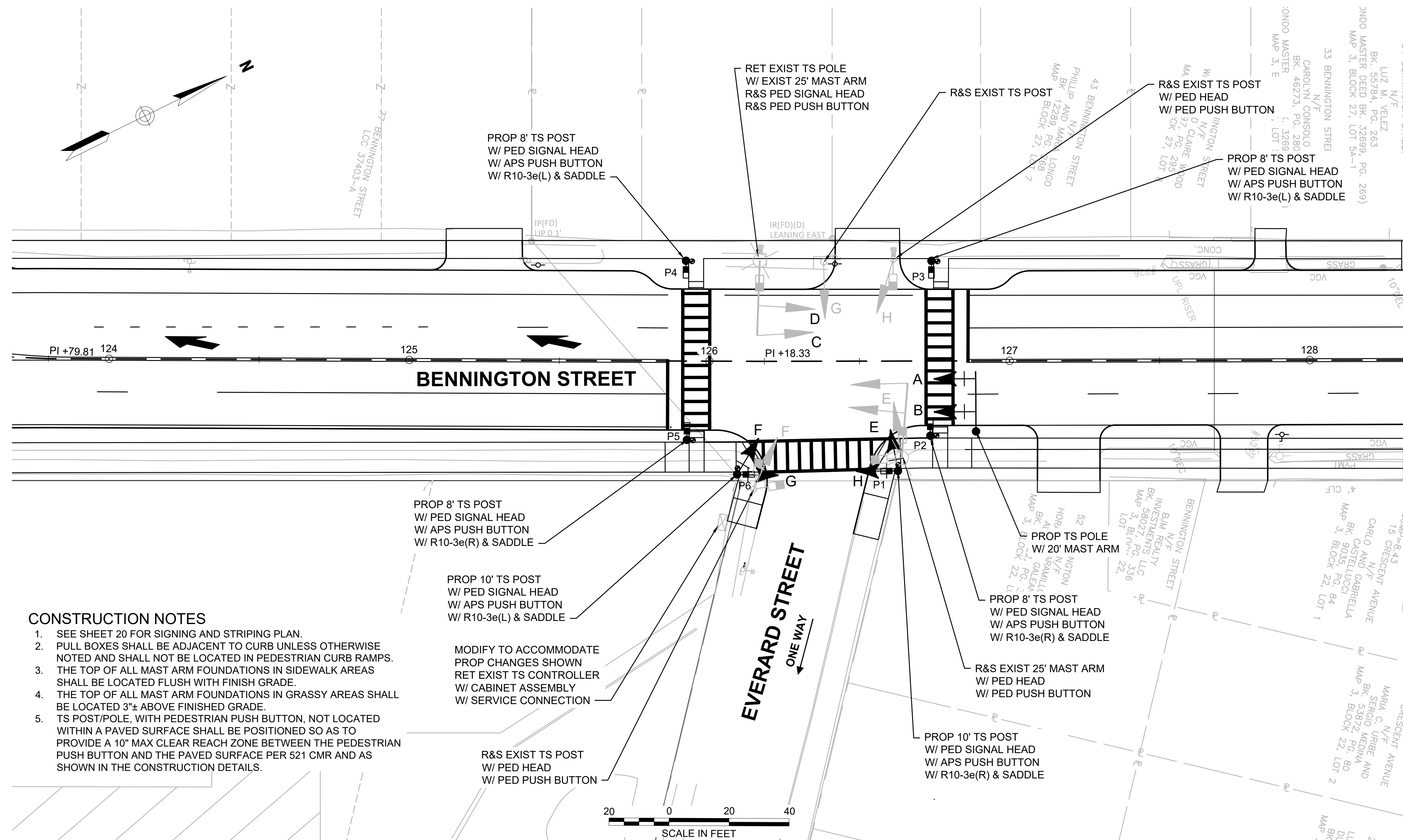
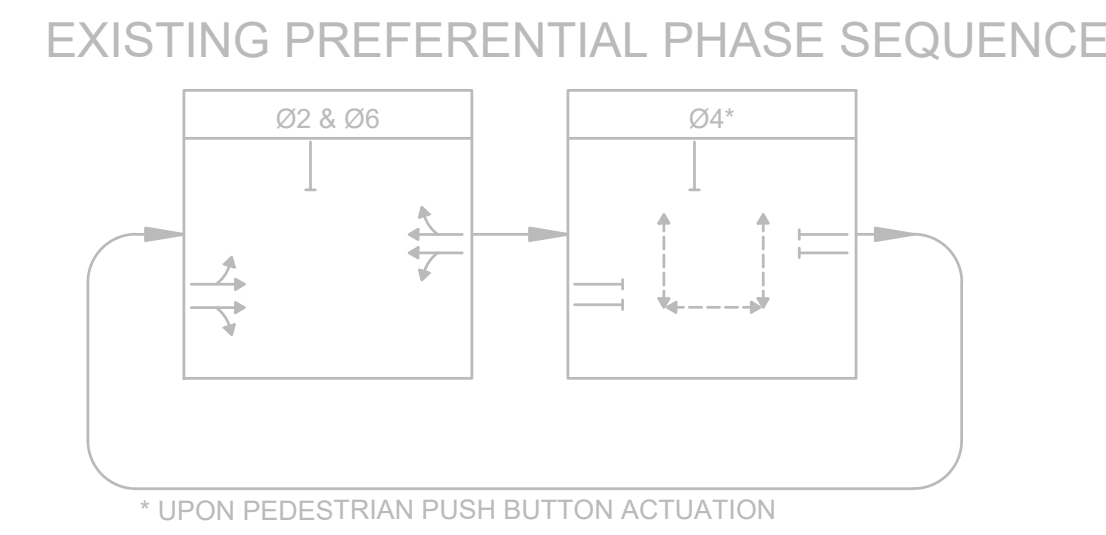
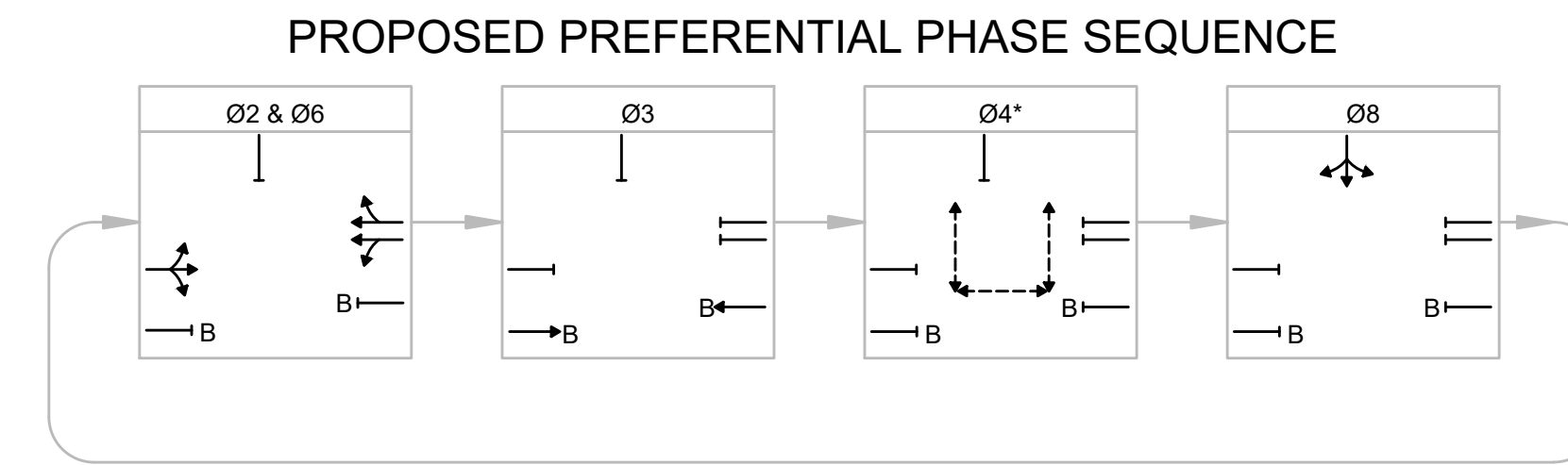
CONSTRUCTION NOTES

1. SEE SHEET 16 FOR PAVEMENT MARKING AND SIGNING PLAN
2. HANDHOLES SHALL BE ADJACENT TO CURB UNLESS OTHERWISE NOTED AND SHALL NOT BE LOCATED IN WHEELCHAIR RAMPS.
3. THE FIELD LOCATION OF PROPOSED SIGNAL POSTS/POLES AND HANDHOLES ARE SUBJECT TO APPROVAL BY THE BTS.
4. AN IDENTIFICATION NUMBER PLATE SHALL BE INSTALLED ON ALL SIGNAL POSTS/POLES PER BTS STANDARD DETAILS.
5. APS PEDESTRIAN PUSH BUTTONS AND SIGNS SHALL BE INSTALLED ON THE SIDE OF THE POST/POLE MOST ACCESSIBLE TO THE ADJACENT CROSSWALKS. APS PUSH BUTTONS SHALL BE ADA COMPLIANT AND MEET BTS STANDARDS.
6. TRAFFIC CONDUIT SHALL BE 3" DIAMETER, NM, SCHEDULE 80.
7. ALL SIGNAL HARDWARE SHALL BE INSTALLED IN A LOCATION THAT PROVIDES A MINIMUM 42" SIDEWALK CLEARANCE PER CITY OF BOSTON REGULATIONS.



EXISTING/PROPOSED SIGNAL HEAD DATA					
A,B,E,F	G,H	C,D,E,F	R&S A,B,E,F,G,H	P1-P6	R&S P1-P6
				 W/COUNTDOWN TIMER	
ALL 12" LENS					

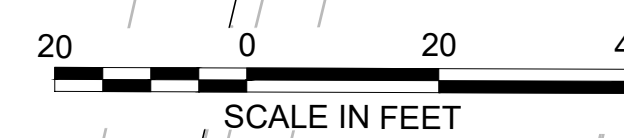
- NOTES:
1. ALL PROPOSED SIGNAL HEADS SHALL BE RIGID MOUNTED.
 2. ALL PROPOSED SIGNAL HEADS SHALL BE EQUIPPED WITH 5"± NON-LOUVERED BACKPLATES. ALL BACKPLATES SHALL CONTAIN A 3" WIDE YELLOW REFLECTIVE BORDER.
 3. ALL PROPOSED SIGNAL HEADS SHALL BE EQUIPPED WITH TUNNEL VISORS.
 4. ALL PROPOSED SIGNAL DISPLAYS SHALL BE EQUIPPED WITH L.E.D. MODULES.



CONSTRUCTION NOTES

1. SEE SHEET 20 FOR SIGNING AND STRIPING PLAN.
2. PULL BOXES SHALL BE ADJACENT TO CURB UNLESS OTHERWISE NOTED AND SHALL NOT BE LOCATED IN PEDESTRIAN CURB RAMPS.
3. THE TOP OF ALL MAST ARM FOUNDATIONS IN SIDEWALK AREAS SHALL BE LOCATED FLUSH WITH FINISH GRADE.
4. THE TOP OF ALL MAST ARM FOUNDATIONS IN GRASSY AREAS SHALL BE LOCATED 3"± ABOVE FINISHED GRADE.
5. TS POST/POLE, WITH PEDESTRIAN PUSH BUTTON, NOT LOCATED WITHIN A PAVED SURFACE SHALL BE POSITIONED SO AS TO PROVIDE A 10" MAX CLEAR REACH ZONE BETWEEN THE PEDESTRIAN PUSH BUTTON AND THE PAVED SURFACE PER 521 CMR AND AS SHOWN IN THE CONSTRUCTION DETAILS.

MODIFY TO ACCOMMODATE
 PROP CHANGES SHOWN
 RET EXIST TS CONTROLLER
 W/ CABINET ASSEMBLY
 W/ SERVICE CONNECTION



SCHEMATIC DESIGN PLANT SCHEDULE - BENNINGTON STREET SHEET 23

DECIDUOUS STREET | SHADE TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
12	GT	GLEDITSIA TRI. INER. 'SKYLINE'	SKYLINE HONEYLOCUST	2.5"- 3" CAL.	BALL & BURLAP	30' O.C. (IN)(S)

DECIDUOUS ORNAMENTAL TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
4	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	6'-7" HT.	B&B	10' O.C. (N) (S) (FAC)
2	CC	CRATAEGUS CRUS. INERMIS	THORNLESS HAWTHORN	6'-7" HT.	#15 CONT.	15' O.C. (N) (S)

DECIDUOUS SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
21	AA	ARONIA MEL. 'LOW SCAPE MOUND'	LOW SCAPE MOUND CHOKEBERRY	15"-18" SP.	#2 CONT.	2' O.C. (IN)(S)
16	AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
15	CA	CLETHRA ALNIFOLIA	SUMMERSWEET	24"-30" HT.	#5 CONT.	6' O.C. (N) (S) (FAC)
14	CP	COMPTONIA PEREGRINA	SWEET FERN	15"-18" HT.	#2 CONT.	4' O.C. (N) (S) (UPL)
6	CR	CORNUS (SWIDA) RACEMOSA	GRAY DOGWOOD	24"-30" HT.	#5 CONT.	10' O.C. (N) (FAC)
5	MP	MYRICA (MORELLA) PENNSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
6	PM	PRUNUS MARITIMA	BEACH PLUM	24"-36" HT.	#5 CONT.	6' O.C. (N) (S) (UPL)
15	RA	RHUS AROMATICA	FRAGRANT SUMAC	18"-24" HT.	#3 CONT.	8' O.C. (N) (S)
26	VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	18"-24" HT.	#3 CONT.	3' O.C. (N) (S) (FACW)
8	VD	VIBURNUM DENTAUM	ARROWWOOD VIBURNUM	24"-30" HT.	#5 CONT.	8' O.C. (N) (S) (FAC)

NOTE: UPDATED HORTICULTURAL NAMES -
(CR) CORNUS RACEMOSA = SWIDA RACEMOSA
(MP) MYRICA PENNSYLVANICA = MORELLA CAROLINIENSIS

EVERGREEN UPLAND SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
13	JH	JUNIPERUS HOR. 'PLUMOSA COMPACTA'	ANDORRA JUNIPER	24"-36" SP.	#3 CONT.	4' O.C. (IN)(S)

TURF | BUFFER ENHANCEMENT

QTY SF	SEED MIX TYPE	NOTES
11,751	NON-IRRIGATED GENERAL LAWN SEED MIX; TRAFFIC ISLANDS AND MOW STRIP ADJACENT TO PAVING	NORTHEAST NURSERY, PEABODY, MA, 978.239.6449
2,224	NON-IRRIGATED SLOPE NE ROADSIDE MATRIX UPLAND SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA, 413.548.8000
5,198	NON-IRRIGATED NE CONSERVATION/WILDLIFE SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA, 413.548.8000

NOTE: ALL SCHEMATIC DESIGN DOCUMENT PLANT LIST QUANTITIES ARE APPROXIMATE AND WILL BE FURTHER REFINED IN DESIGN DEVELOPMENT IN CONJUNCTION WITH THE FINAL SITE DESIGN.

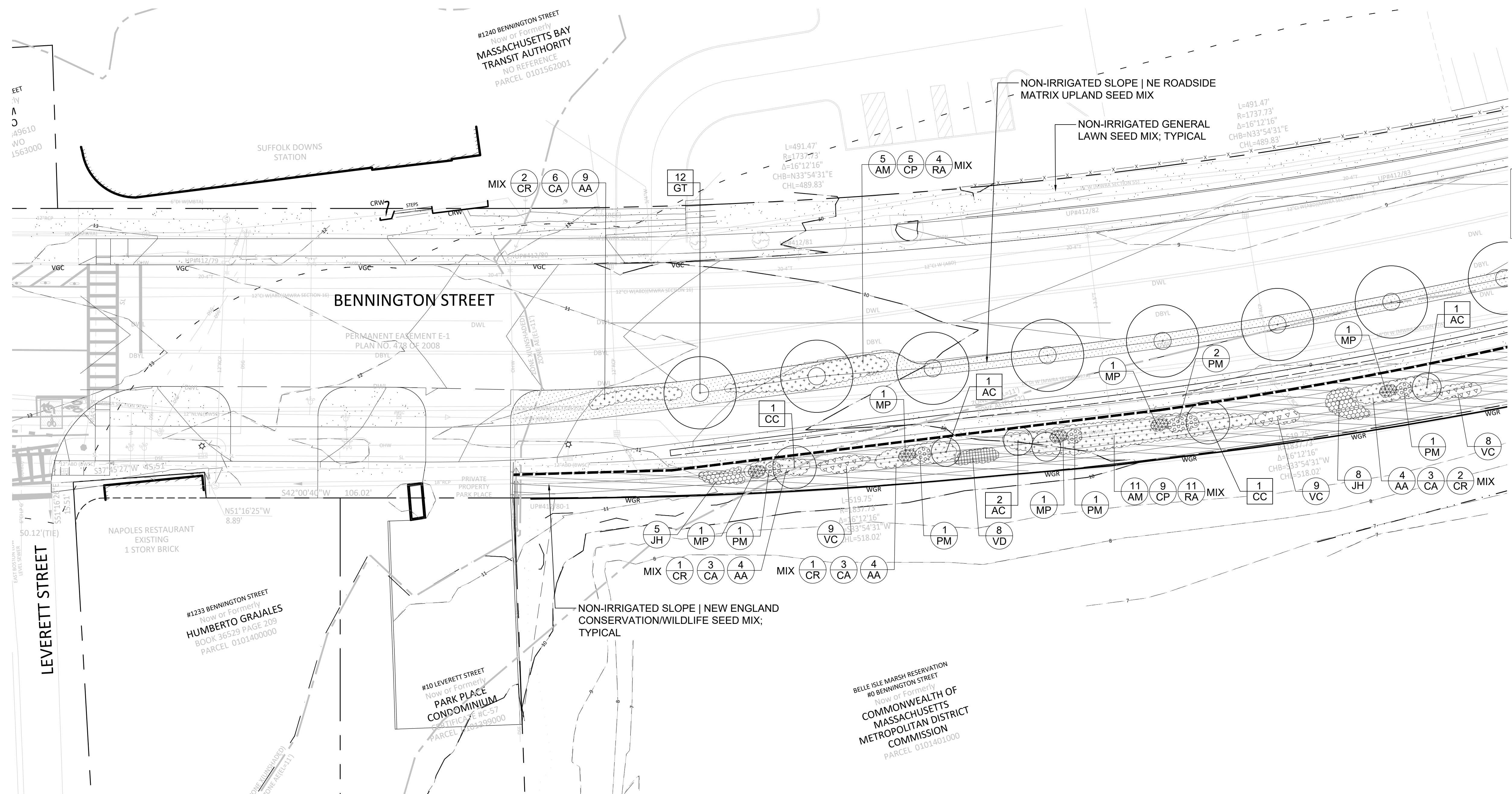
O.C. = ON-CENTER SPACING
(N) = NATIVE SPECIES
(IN) = IMPROVED NATIVE SPECIES
(S) = SALT TOLERANT SPECIES
(FAC) = FACULTATIVE SPECIES
(FACU) = FACULTATIVE UPLAND SPECIES
(FACW) = FACULTATIVE WETLAND SPECIES
(UPL) = OBLIGATE UPLAND SPECIES

PLANTING PLAN NOTES:

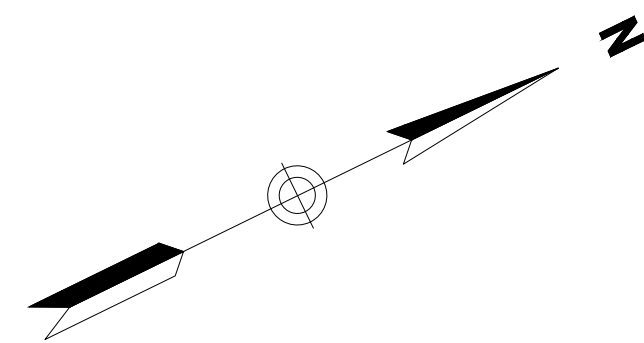
- ALL PLANTING SOILS SHALL BE ONE PART TOPSOIL, ONE PART COMPOSTED ORGANIC MATTER, ONE PART NATIVE SOIL MIXED PRIOR TO PLANTING INSTALLATION.
- THE CONTRACTOR SHALL CONFIRM THE ACTUAL DEPTH OF ALL PLANTING AREAS PRIOR TO ANY PLANT MATERIAL BEING SECURED. REPORT ANY LEDGE OR SUBSTANDARD SOIL/SUBSURFACE CONDITIONS TO THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL CONSIDER THE DISPLACEMENT OF PLANTING SOIL FOR THE PLANT MATERIAL ROOT BALLS IN THE OVERALL PLANTING BED FINISHED GRADE. ALLOW ENOUGH ROOM IN THE PLANTING BED ELEVATION TO SPREAD DISPLACED SOIL AND STILL MEET THE INDICATED FINISHED GRADE INCLUDING THE 2" OF HARDWOOD MULCH.
- ANY MATERIALS ACCUMULATED OVER THE ROOT FLARE OF A TREE OR SHRUB MUST BE REMOVED COMPLETELY UNTIL THE ROOT FLARE IS EXPOSED AND ALL GIRDLING ROOTS REMOVED PRIOR TO PLANTING.
- THE CONTRACTOR SHALL LOCATE AND VERIFY WITH THE LANDSCAPE ARCHITECT ALL EXISTING TREES, SHRUBS, PERENNIALS, AND/OR GROUNDCOVER TO REMAIN, TO BE REMOVED, OR TO BE TRANSPLANTED. PROTECT IN PLACE ALL EXISTING TREES, SHRUBS, AND GROUNDCOVER TO REMAIN.
- ALL NEW PLANTING MATERIAL SHALL CONFORM TO MINIMUM GUIDELINES ESTABLISHED BY THE MOST CURRENT AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1). IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY AND THE PLANT HEIGHT SHALL BE MEASURED FROM THE ROOT FLARE, NOT THE BOTTOM OF POT OR BURLAP BALL.
- STAKE THE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR BETWEEN THE PLANT MATERIALS LIST AND THE PLANT KEYS ON THE DRAWINGS, THE HIGHER NUMBER OF PLANTS SHALL GOVERN. THE CONTRACTOR SHALL REPORT DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, FRUIT, COLOR, AND CULTURE MUST BE APPROVED.
- ALL LAWN AREAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORK SHALL RECEIVE TURF RENOVATION FOR DAMAGED AREA PER SPECIFICATIONS.

LEGEND

- PROPERTY LINE
- PROPOSED DECIDUOUS TREE
- TREE TAG
- SHRUB TAG
- NON-IRRIGATED GENERAL LAWN SEED MIX
- NON-IRRIGATED SLOPE | NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX
- NON-IRRIGATED SLOPE | NE ROADSIDE MATRIX UPLAND SEED MIX



CONTINUED ON SHEET NO. 24



SCHEMATIC DESIGN PLANT SCHEDULE - BENNINGTON STREET SHEET 24

DECIDUOUS STREET | SHADE TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
9	NS	NYSSA SYLVATICA	BLACK TUPELO	2.5"-3" CAL.	B&B	30' O.C. (N) (S) (FAC)

DECIDUOUS ORNAMENTAL TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
8	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	6'-7" HT.	B&B	10' O.C. (N) (S) (FAC)
7	CC	CRATAEGUS CRUS. INERMIS	THORNLESS HAWTHORN	6'-7" HT.	#15 CONT.	15' O.C. (N) (S)

DECIDUOUS SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
49	AA	ARONIA MEL. 'LOW SCAPE MOUND'	LOW SCAPE MOUND CHOKEBERRY	15"-18" SP.	#2 CONT.	2' O.C. (IN)(S)
19	AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
30	CA	CLETHRA ALNIFOLIA	SUMMERSWEET	24"-30" HT.	#5 CONT.	6' O.C. (N) (S) (FAC)
22	CP	COMPTONIA PEREGRINA	SWEET FERN	15"-18" HT.	#2 CONT.	4' O.C. (N) (S) (UPL)
19	CR	CORNUS (SWIDA) RACEMOSA	GRAY DOGWOOD	24"-30" HT.	#5 CONT.	10' O.C. (N) (FAC)
8	MP	MYRICA (MORELLA) PENNSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
11	PM	PRUNUS MARITIMA	BEACH PLUM	24"-36" HT.	#5 CONT.	6' O.C. (N) (S) (UPL)
18	RA	RHUS AROMATICA	FRAGRANT SUMAC	18"-24" HT.	#3 CONT.	8' O.C. (N) (S)
46	VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	18"-24" HT.	#3 CONT.	3' O.C. (N) (S) (FACW)
6	VD	VIBURNUM DENTAUM	ARROWWOOD VIBURNUM	24"-30" HT.	#5 CONT.	8' O.C. (N) (S) (FAC)

NOTE: UPDATED HORTICULTURAL NAMES -
 (CR) CORNUS RACEMOSA = SWIDA RACEMOSA
 (MP) MYRICA PENNSYLVANICA = MORELLA CAROLINIENSIS

EVERGREEN UPLAND SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
26	JH	JUNIPERUS HOR. 'PLUMOSA COMPACTA'	ANDORRA JUNIPER	24"-36" SP.	#3 CONT.	4' O.C. (IN)(S)

TURF | BUFFER ENHANCEMENT

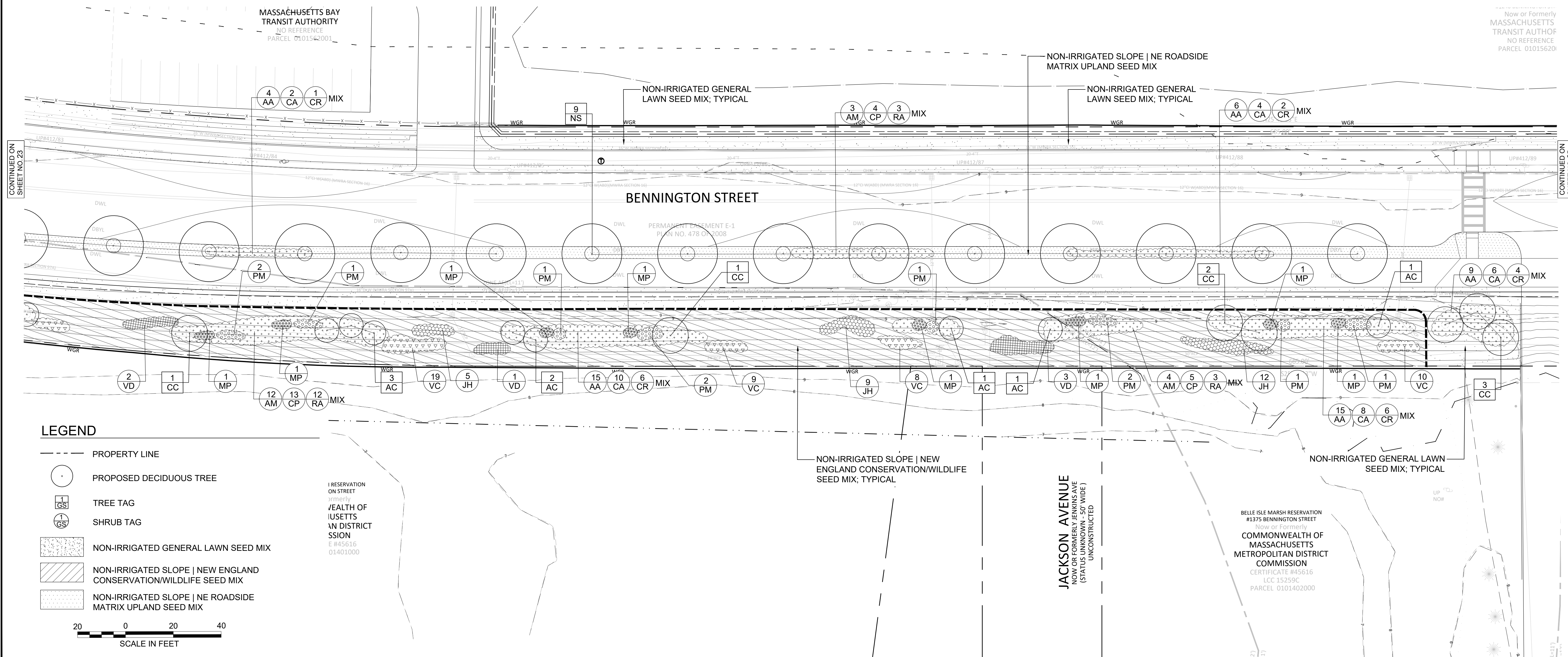
QTY SF	SEED MIX TYPE	NOTES
13,632	NON-IRRIGATED GENERAL LAWN SEED MIX; TRAFFIC ISLANDS AND MOW STRIP ADJACENT TO PAVING	NORTHEAST NURSERY, PEABODY, MA; 978.239.6449
3,230	NON-IRRIGATED SLOPE NE ROADSIDE MATRIX UPLAND SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA; 413.548.8000 (N) (S)
13,012	NON-IRRIGATED NE CONSERVATION/WILDLIFE SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA; 413.548.8000 (N)

NOTE: ALL SCHEMATIC DESIGN DOCUMENT PLANT LIST QUANTITIES ARE APPROXIMATE AND WILL BE FURTHER REFINED IN DESIGN DEVELOPMENT IN CONJUNCTION WITH THE FINAL SITE DESIGN.

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BOSTON
 BENNINGTON STREET
 CONSTRUCTION PLANS
 SHEET 24 OF 48

**SEE SHEET 23 FOR
 PLANTING NOTES**



03_DOT_PL_T123013.DWG Plotted on 24-Jun-2025 12:54 PM

Now or Formerly
 MASSACHUSETTS
 TRANSIT AUTHORITY
 NO REFERENCE
 PARCEL 0101562001

BELLE ISLE MARSH RESERVATION
 #1375 BENNINGTON STREET
 Now or Formerly
 COMMONWEALTH OF
 MASSACHUSETTS
 METROPOLITAN DISTRICT
 COMMISSION
 CERTIFICATE #45616
 LCC 15259C
 PARCEL 0101402000

UP TO NOB

SCHEMATIC DESIGN PLANT SCHEDULE - BENNINGTON STREET SHEET 25

DECIDUOUS STREET | SHADE TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
11	QP	QUERCUS PALUSTRIS	PIN OAK	2.5"-3" CAL.	B&B	30' O.C. (N) (S) (FACW)

DECIDUOUS ORNAMENTAL TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
7	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	6'-7" HT.	B&B	10' O.C. (N) (S) (FAC)
6	CC	CRATAEGUS CRUS. INERMIS	THORNLESS HAWTHORN	6'-7" HT.	#15 CONT.	15' O.C. (N) (S)

DECIDUOUS SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
30	AA	ARONIA MEL. 'LOW SCAPE MOUND'	LOW SCAPE MOUND CHOKEBERRY	15"-18" SP.	#2 CONT.	2' O.C. (IN)(S)
35	AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
18	CA	CLETHRA ALNIFOLIA	SUMMERSWEET	24"-30" HT.	#5 CONT.	6' O.C. (N) (S) (FAC)
51	CP	COMPTONIA PEREGRINA	SWEET FERN	15"-18" HT.	#2 CONT.	4' O.C. (N) (S) (UPL)
9	CR	CORNUS (SWIDA) RACEMOSA	GRAY DOGWOOD	24"-30" HT.	#5 CONT.	10' O.C. (N) (FAC)
11	MP	MYRICA (MORELLA) PENNSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
15	PM	PRUNUS MARITIMA	BEACH PLUM	24"-36" HT.	#5 CONT.	6' O.C. (N) (S) (UPL)
29	RA	RHUS AROMATICA	FRAGRANT SUMAC	18"-24" HT.	#3 CONT.	8' O.C. (N) (S)
16	VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	18"-24" HT.	#3 CONT.	3' O.C. (N) (S) (FACW)
4	VD	VIBURNUM DENTAUM	ARROWWOOD VIBURNUM	24"-30" HT.	#5 CONT.	8' O.C. (N) (S) (FAC)

NOTE: UPDATED HORTICULTURAL NAMES -
 (CR) CORNUS RACEMOSA = SWIDA RACEMOSA
 (MP) MYRICA PENNSYLVANICA = MORELLA CAROLINIENSIS

EVERGREEN UPLAND SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
21	JH	JUNIPERUS HOR. 'PLUMOSA COMPACTA'	ANDORRA JUNIPER	24"-36" SP.	#3 CONT.	4' O.C. (IN)(S)

TURF | BUFFER ENHANCEMENT

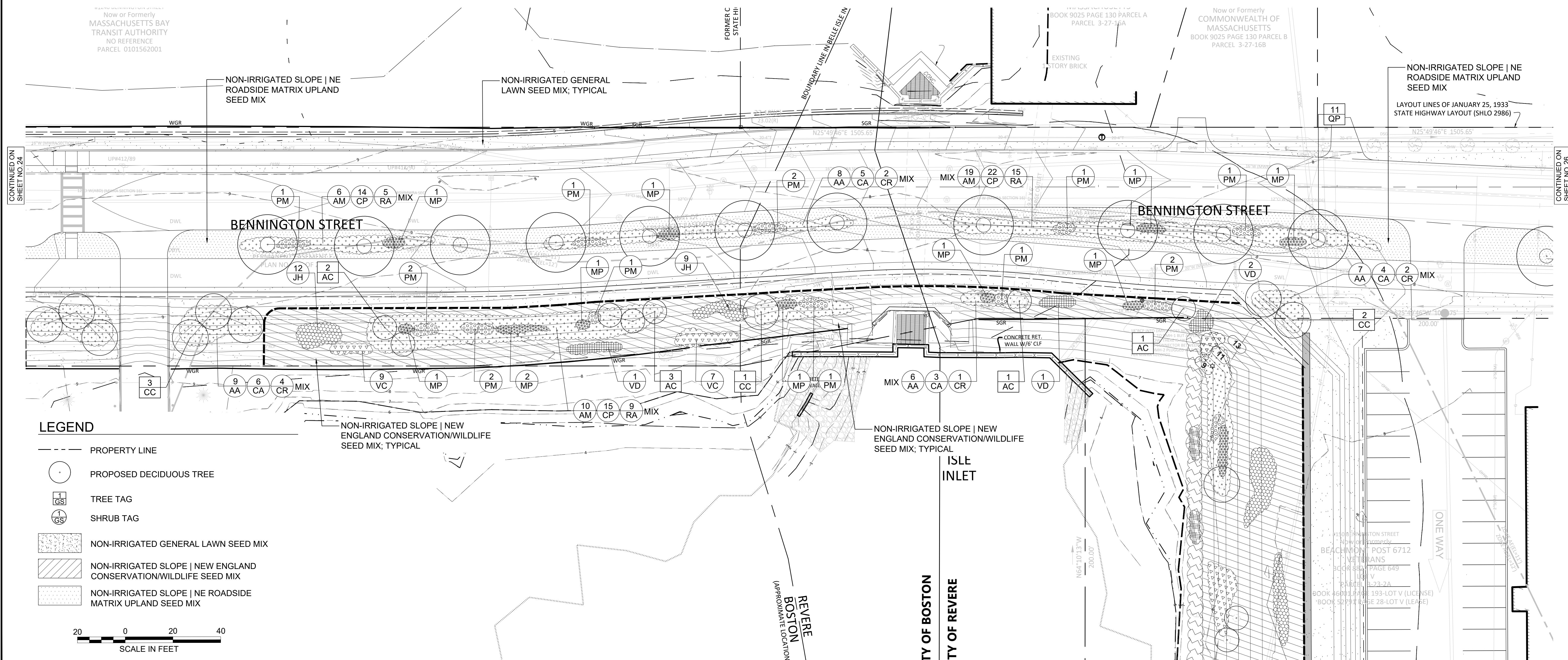
QTY SF	SEED MIX TYPE	NOTES
6,357	NON-IRRIGATED GENERAL LAWN SEED MIX; TRAFFIC ISLANDS AND MOW STRIP ADJACENT TO PAVING	NORTHEAST NURSERY, PEABODY, MA; 978.239.6449
7,003	NON-IRRIGATED SLOPE NE ROADSIDE MATRIX UPLAND SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA; 413.548.8000 (N) (S)
7,237	NON-IRRIGATED NE CONSERVATION/WILDLIFE SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA; 413.548.8000 (N)

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 (FACU) = FACULTATIVE UPLAND SPECIES
 (FACW) = FACULTATIVE WETLAND SPECIES
 (UPL) OBLIGATE UPLAND SPECIES

BOSTON
 BENNINGTON STREET
 CONSTRUCTION PLANS
 SHEET 25 OF 48

**SEE SHEET 23 FOR
 PLANTING NOTES**



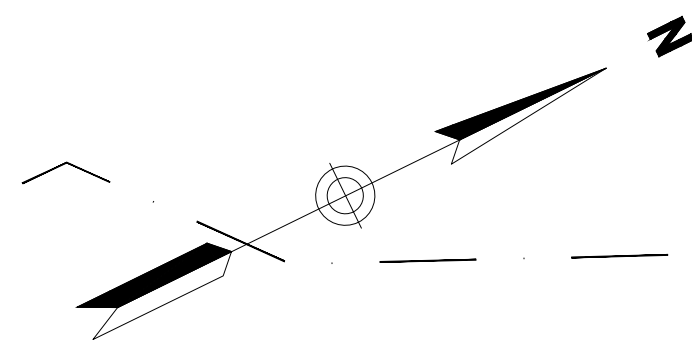
LEGEND

- PROPERTY LINE
- PROPOSED DECIDUOUS TREE
- TREE TAG
- SHRUB TAG
- [Pattern] NON-IRRIGATED GENERAL LAWN SEED MIX
- [Pattern] NON-IRRIGATED SLOPE | NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX
- [Pattern] NON-IRRIGATED SLOPE | NE ROADSIDE MATRIX UPLAND SEED MIX



CONTINUED ON
 SHEET NO. 24

CONTINUED ON
 SHEET NO. 26



SCHEMATIC DESIGN PLANT SCHEDULE - BENNINGTON STREET SHEET 26

DECIDUOUS STREET | SHADE TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
11	NS	NYSSA SYLVATICA	BLACK TUPELO	2.5"- 3" CAL.	B&B	30' O.C. (N) (S) (FAC)
4	QP	QUERCUS PALUSTRIS	PIN OAK	2.5"- 3" CAL.	B&B	30' O.C. (N) (S) (FACW)

TURF | BUFFER ENHANCEMENT

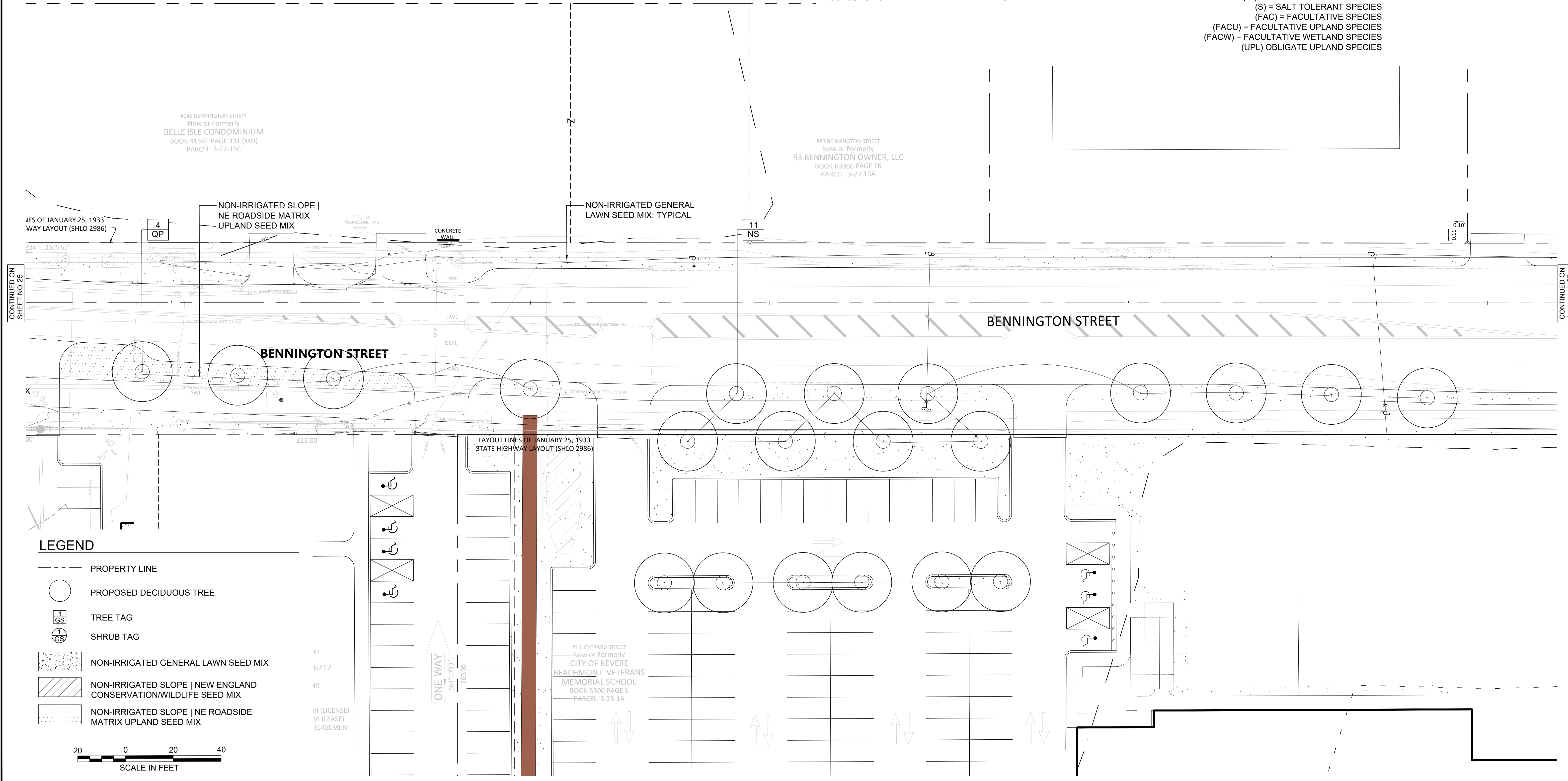
QTY SF	SEED MIX TYPE	NOTES
5,065	NON-IRRIGATED GENERAL LAWN SEED MIX; TRAFFIC ISLANDS AND MOW STRIP ADJACENT TO PAVING	NORTHEAST NURSERY, PEABODY, MA; 978.239.6449
1,432	NON-IRRIGATED SLOPE NE ROADSIDE MATRIX UPLAND SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA; 413.548.8000 (N) (S)

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 (UPL) = OBLIGATE UPLAND SPECIES

BOSTON
 BENNINGTON STREET
 CONSTRUCTION PLANS
 SHEET 26 OF 48

**SEE SHEET 23 FOR
 PLANTING NOTES**



CONTINUED ON SHEET NO. 25

CONTINUED ON SHEET NO. 27

LEGEND

- PROPERTY LINE
- PROPOSED DECIDUOUS TREE
- TREE TAG
- SHRUB TAG
- ▨ NON-IRRIGATED GENERAL LAWN SEED MIX
- ▧ NON-IRRIGATED SLOPE | NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX
- ▩ NON-IRRIGATED SLOPE | NE ROADSIDE MATRIX UPLAND SEED MIX



SCHEMATIC DESIGN PLANT SCHEDULE - BENNINGTON STREET SHEET 27

BOSTON
BENNINGTON STREET
CONSTRUCTION PLANS
SHEET 27 OF 48

DECIDUOUS STREET | SHADE TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
2	GT	GLEDITSIA TRI. INER. 'SKYLINE'	SKYLINE HONEYLOCUST	2.5"- 3" CAL.	BALL & BURLAP	30' O.C. (IN)(S)

TURF | BUFFER ENHANCEMENT

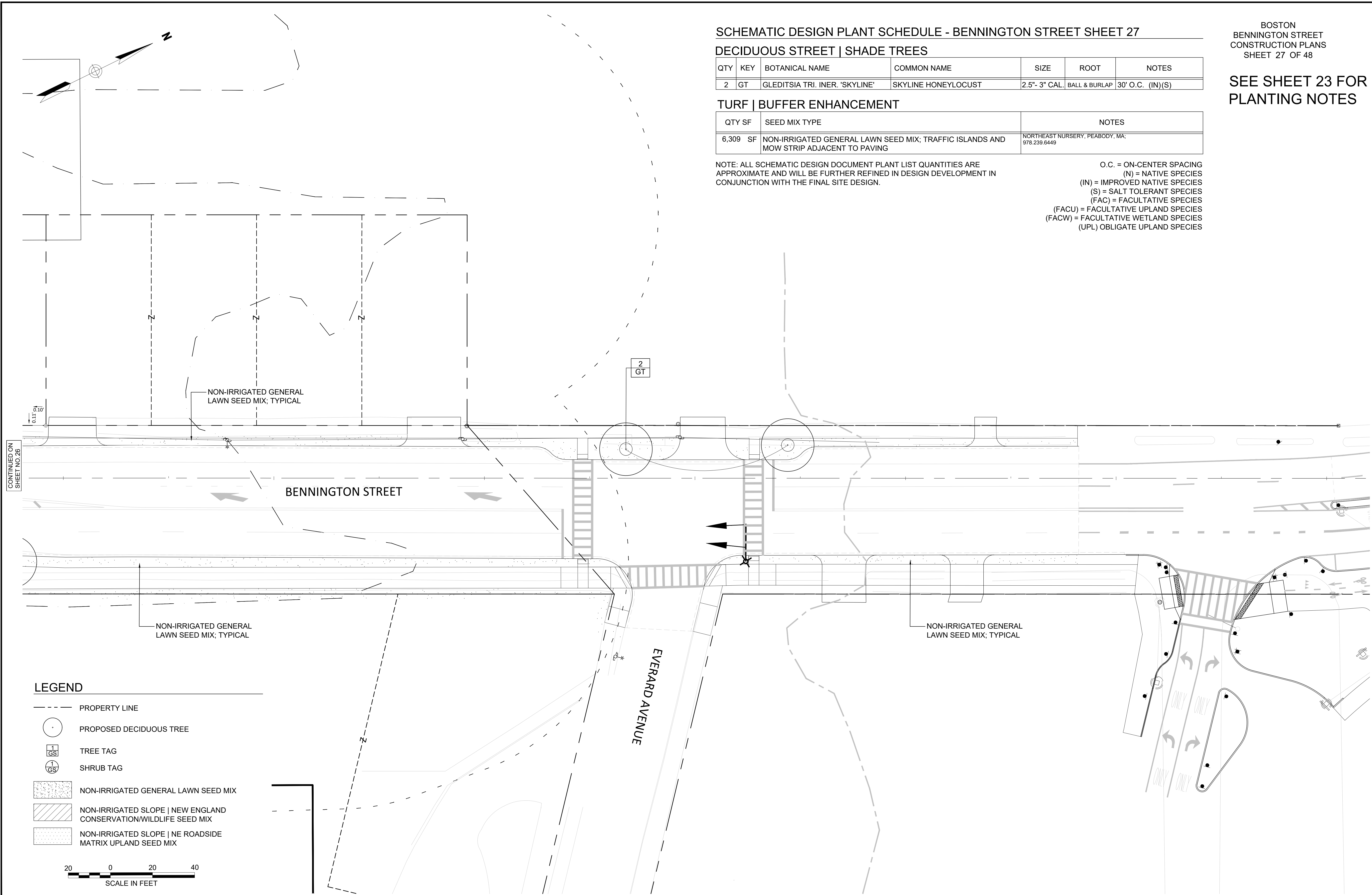
QTY SF	SEED MIX TYPE	NOTES
6,309	SF NON-IRRIGATED GENERAL LAWN SEED MIX; TRAFFIC ISLANDS AND MOW STRIP ADJACENT TO PAVING	NORTHEAST NURSERY, PEABODY, MA; 978.239.6449

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(FACU) = FACULTATIVE UPLAND SPECIES
(FACW) = FACULTATIVE WETLAND SPECIES
(UPL) = OBLIGATE UPLAND SPECIES

SEE SHEET 23 FOR PLANTING NOTES

CONTINUED ON SHEET NO. 26

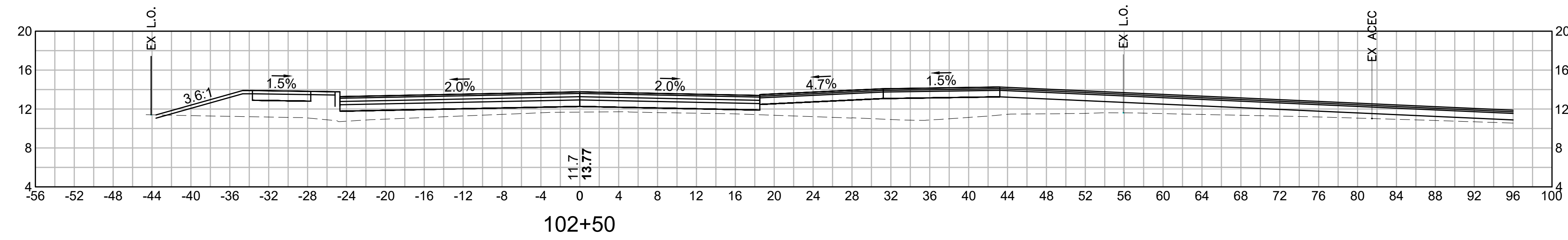


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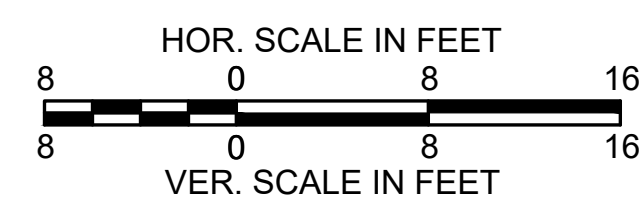
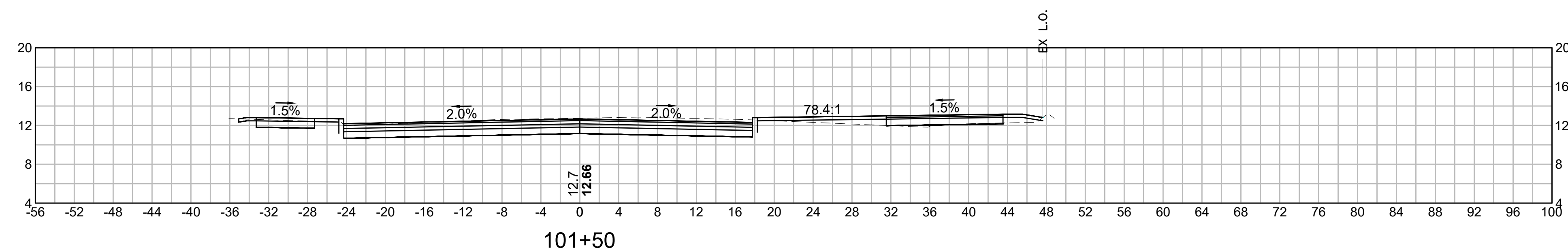
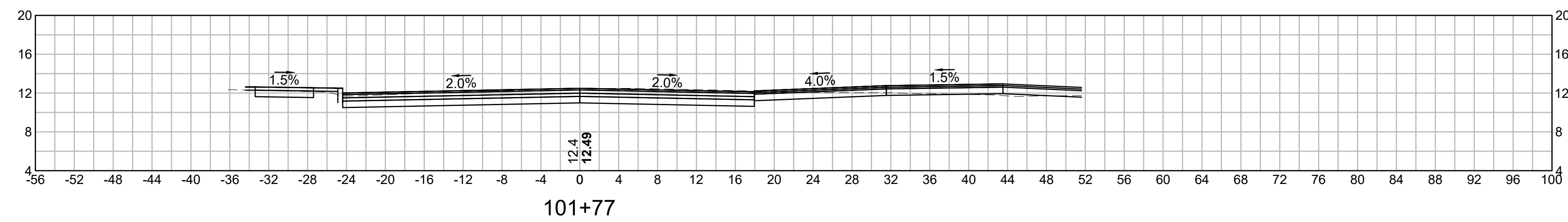
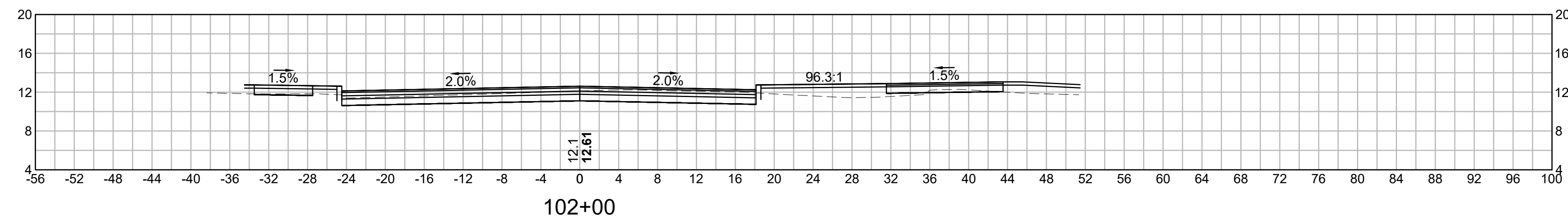
- PROPERTY LINE
- PROPOSED DECIDUOUS TREE
- TREE TAG
- SHRUB TAG
- NON-IRRIGATED GENERAL LAWN SEED MIX
- NON-IRRIGATED SLOPE | NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX
- NON-IRRIGATED SLOPE | NE ROADSIDE MATRIX UPLAND SEED MIX

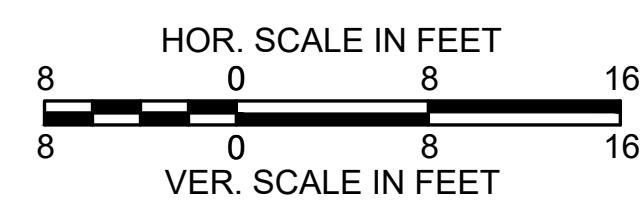
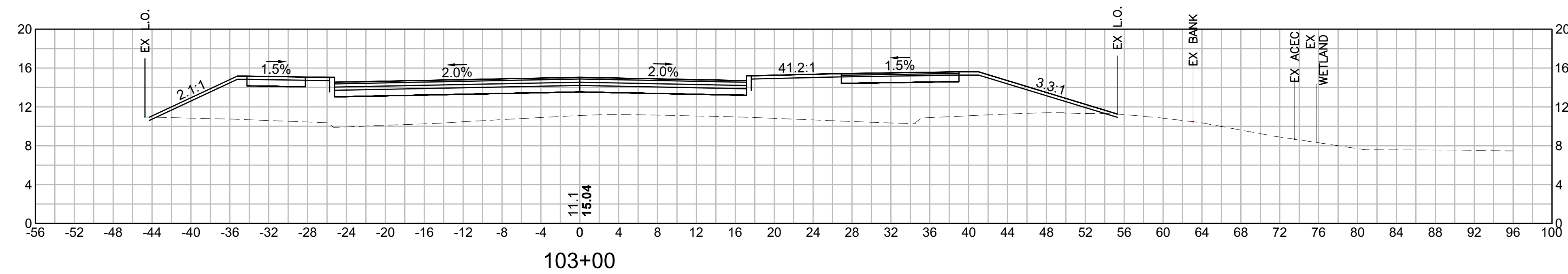
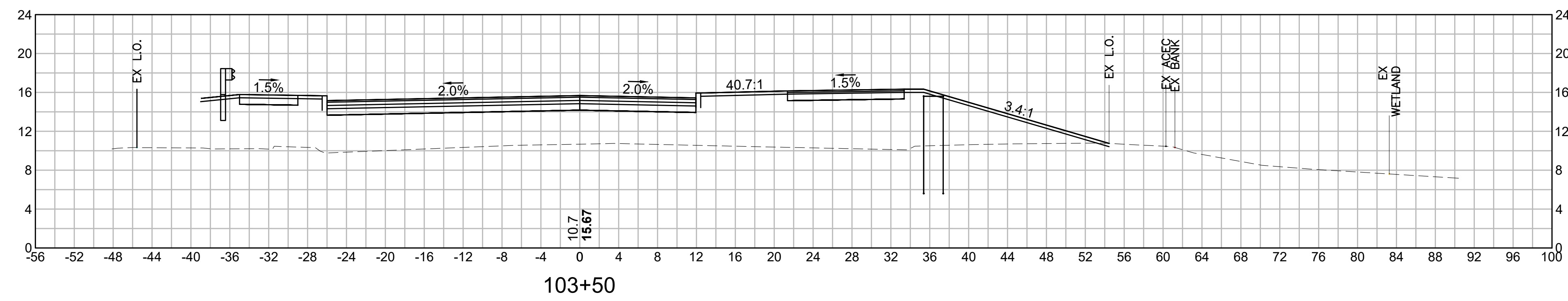
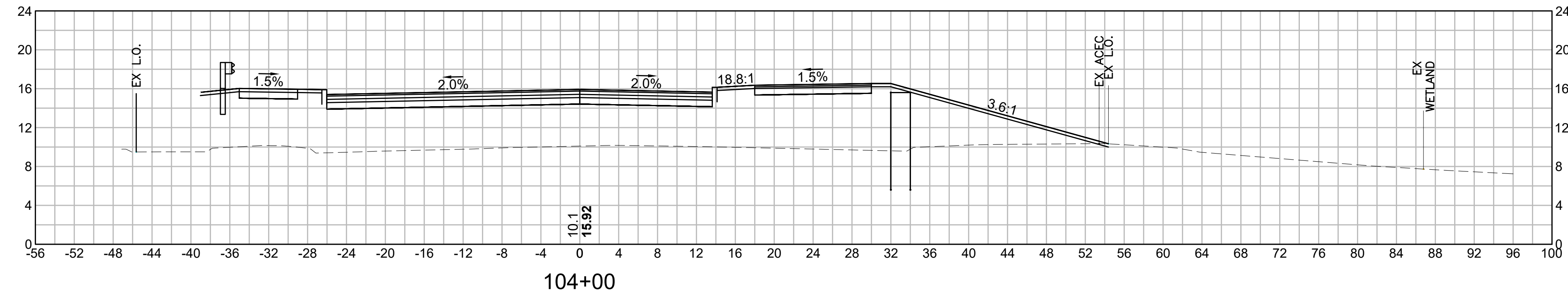


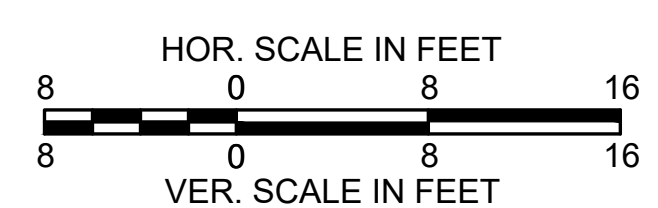
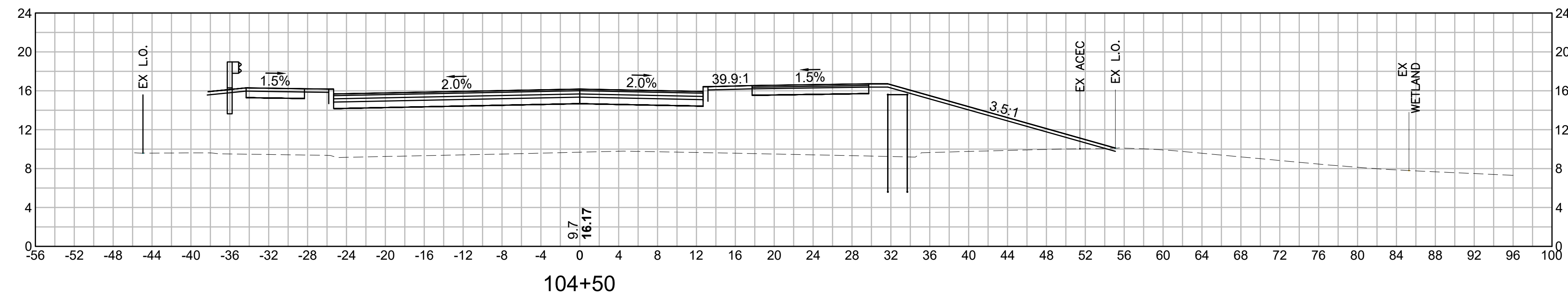
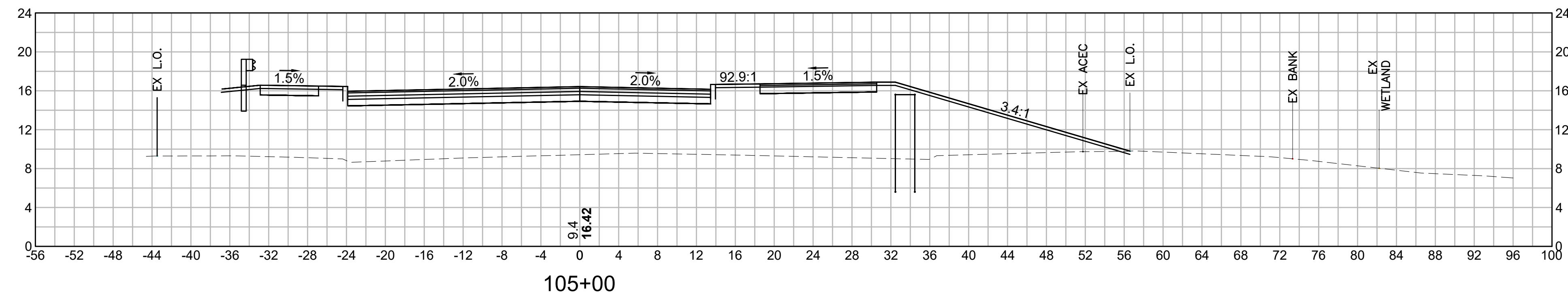
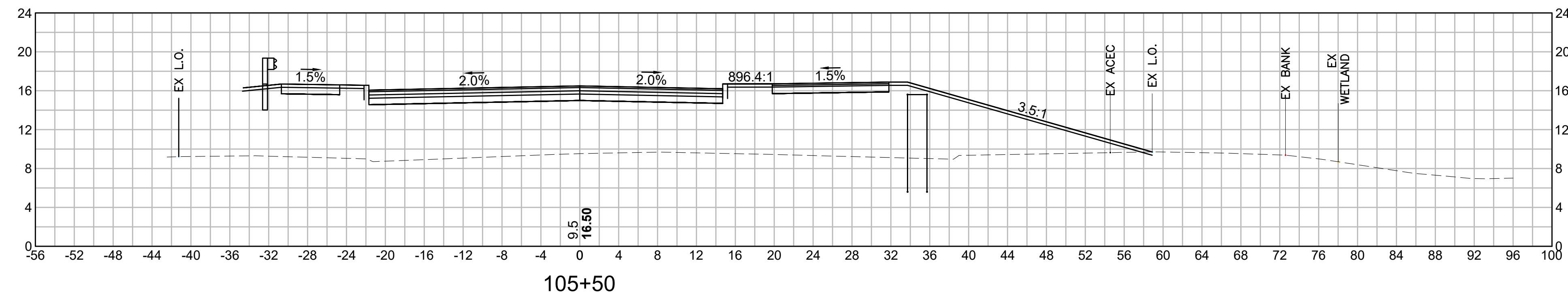
NOTE: DRIVEWAY LIMITS TO BE CONFIRMED
 AT A LATER SUBMISSION STAGE.

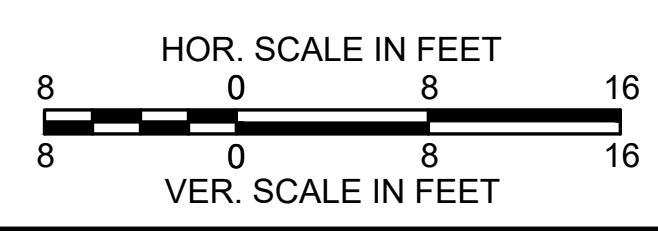
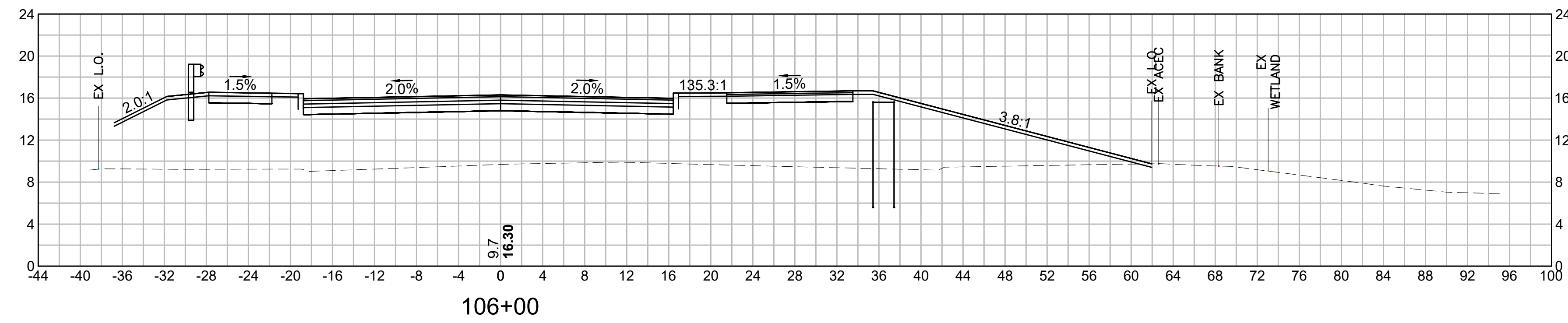
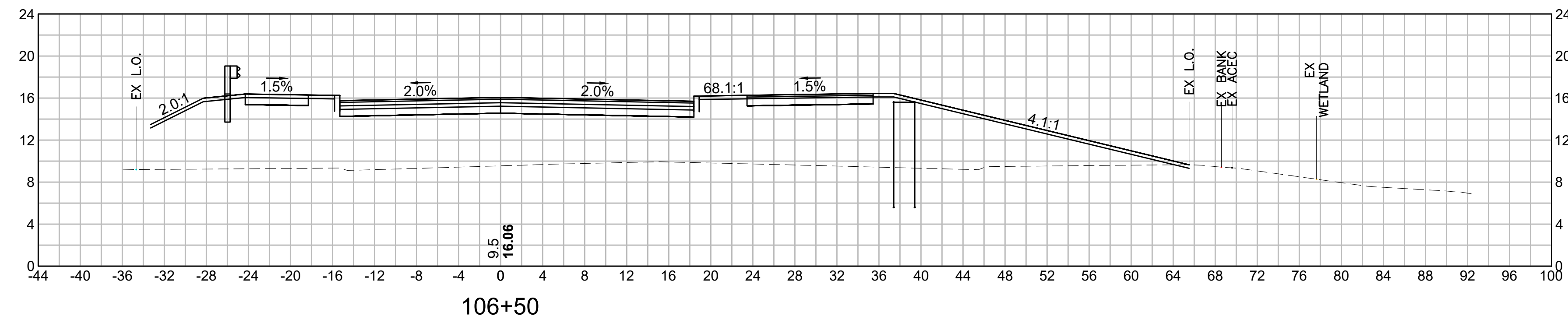
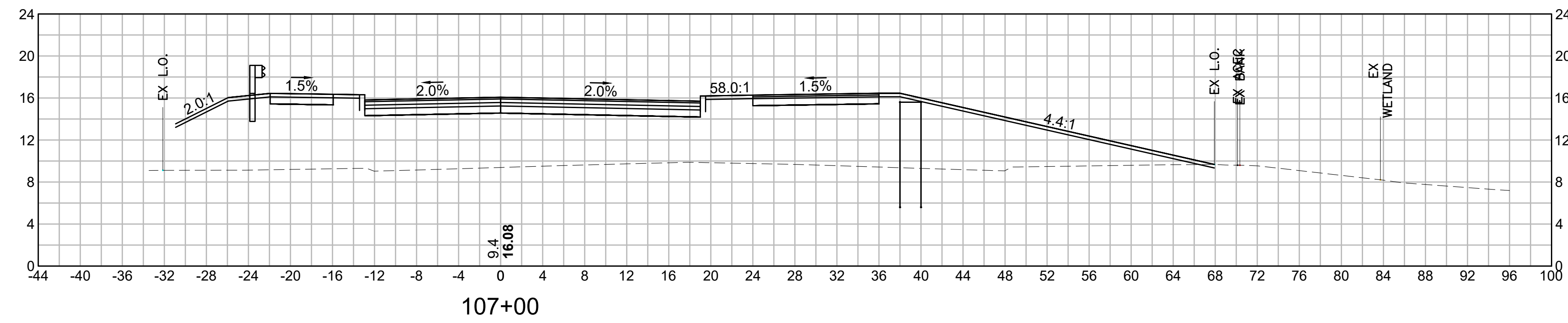


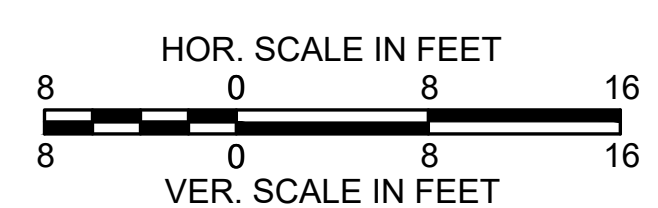
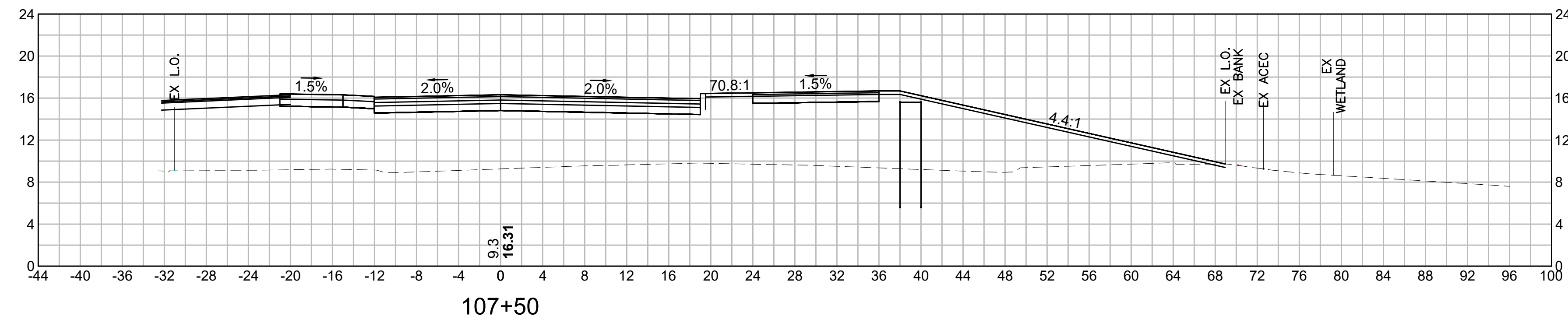
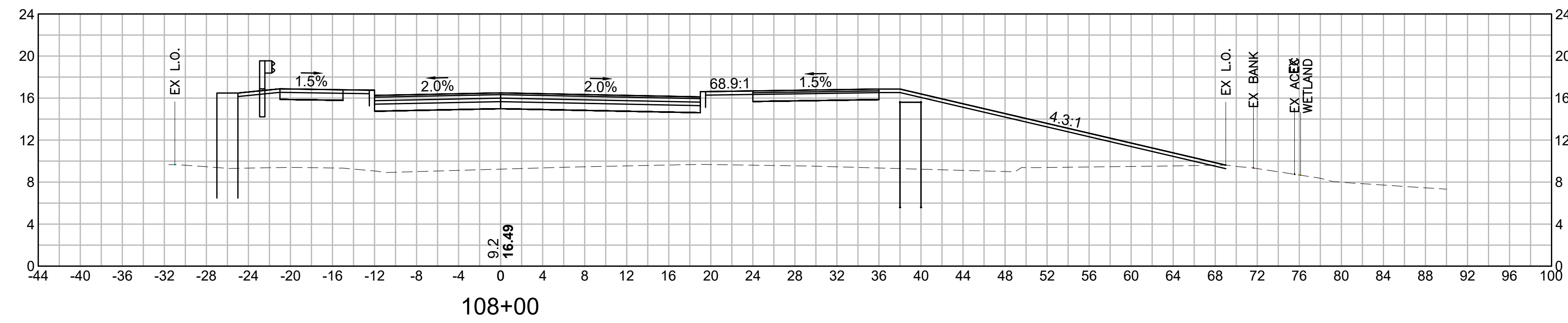
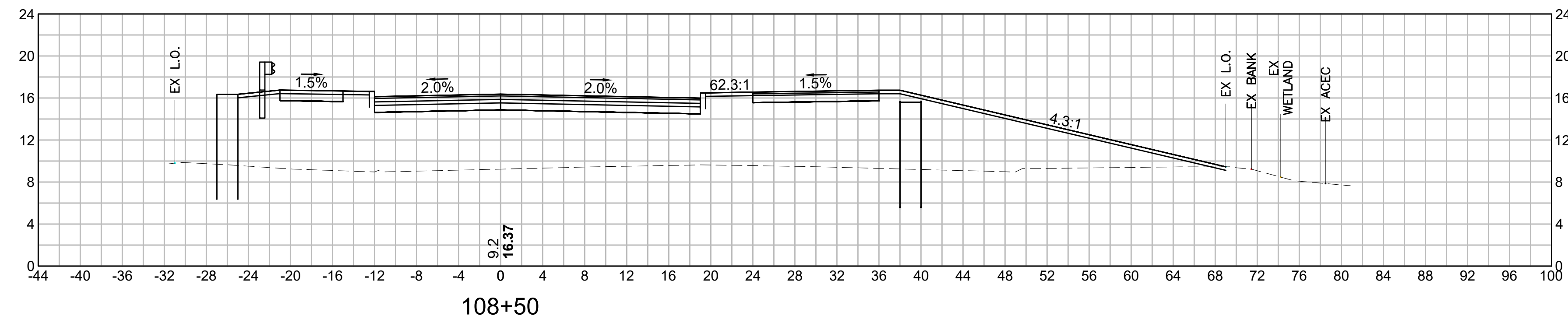
NOTE: IMPROVEMENTS ADJACENT TO MBTA
 STATION ENTRANCE AND PARKING LOT TO
 BE COORDINATED WITH MBTA. SEE
 CONSTRUCTION PLANS.

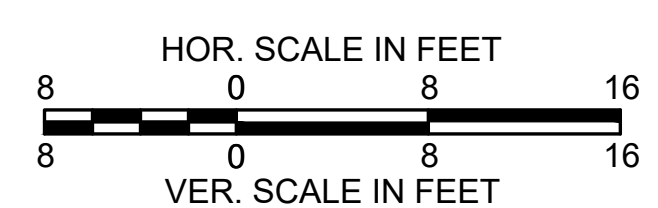
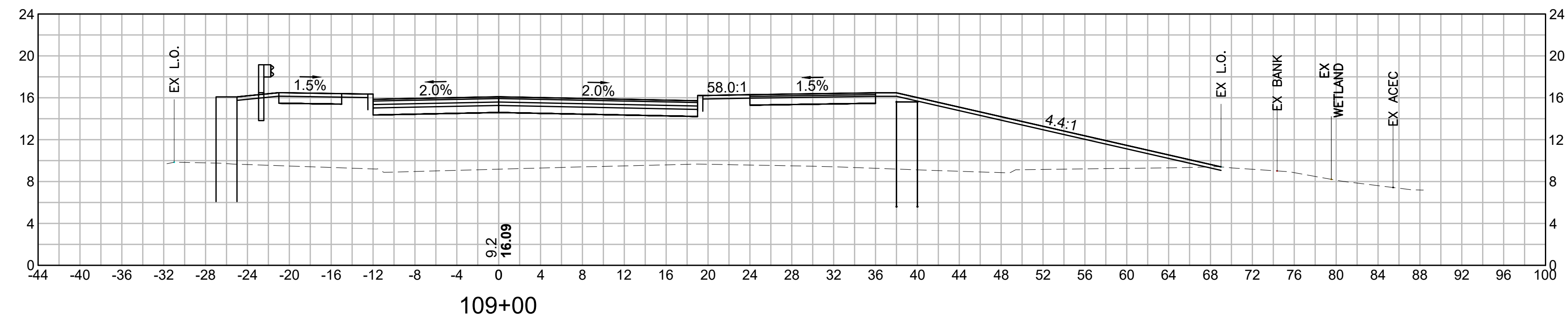
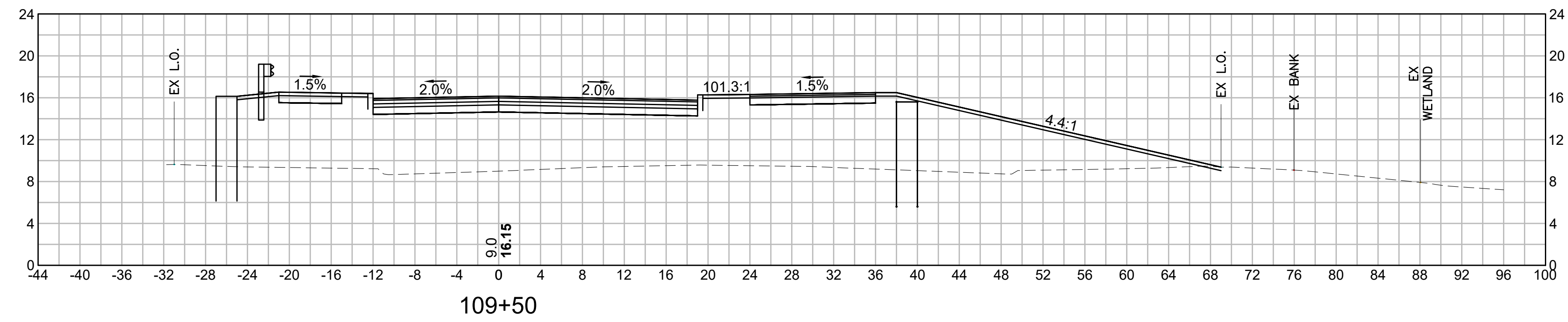
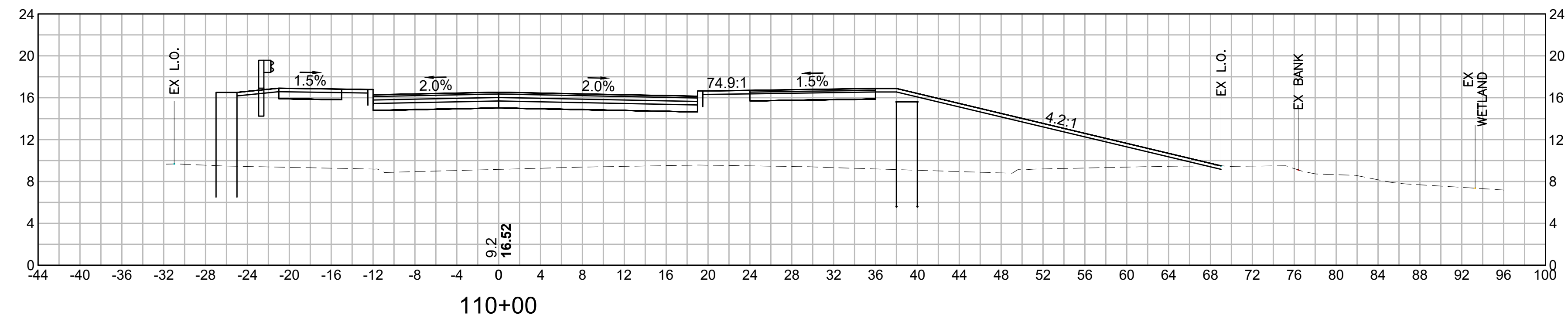


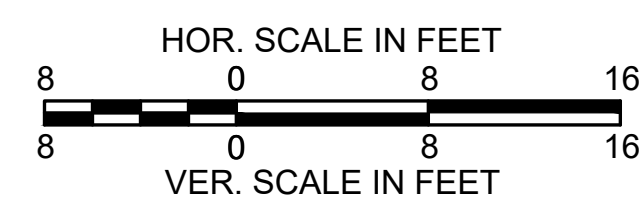
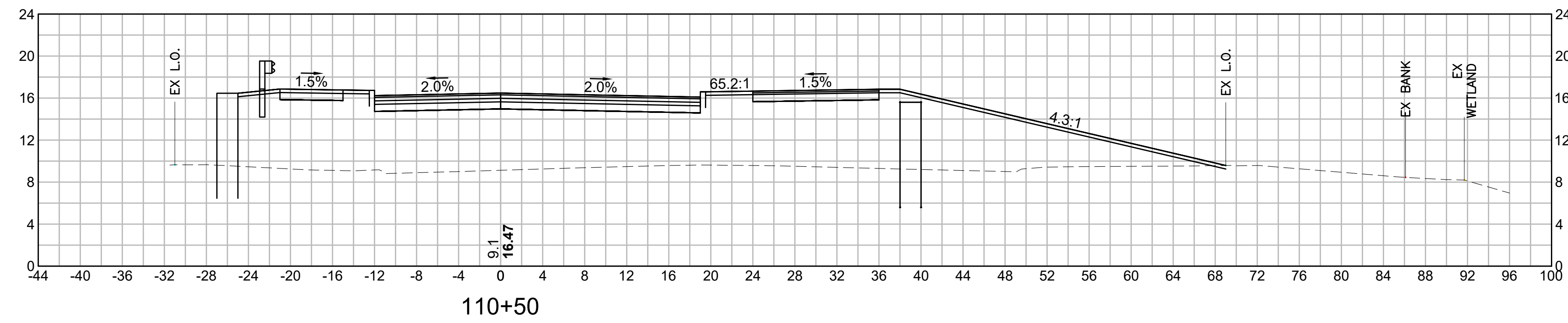
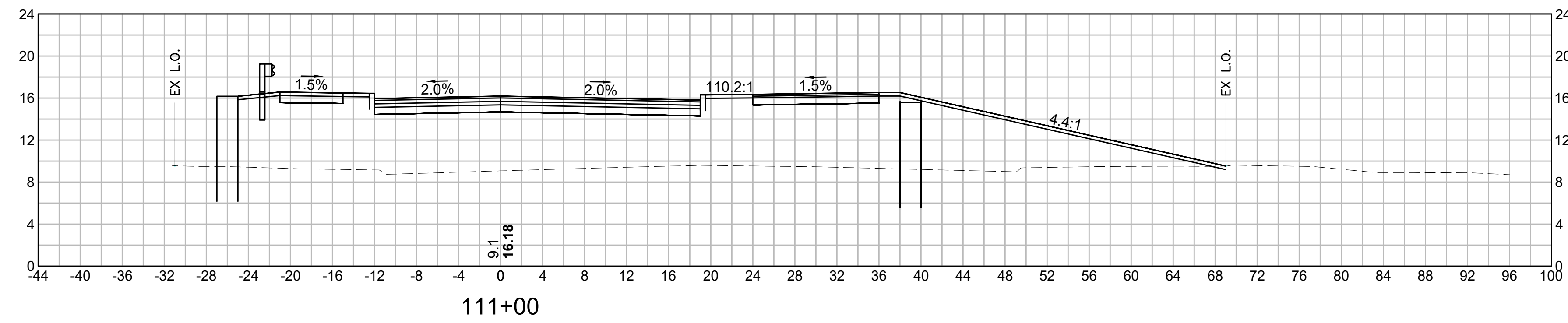
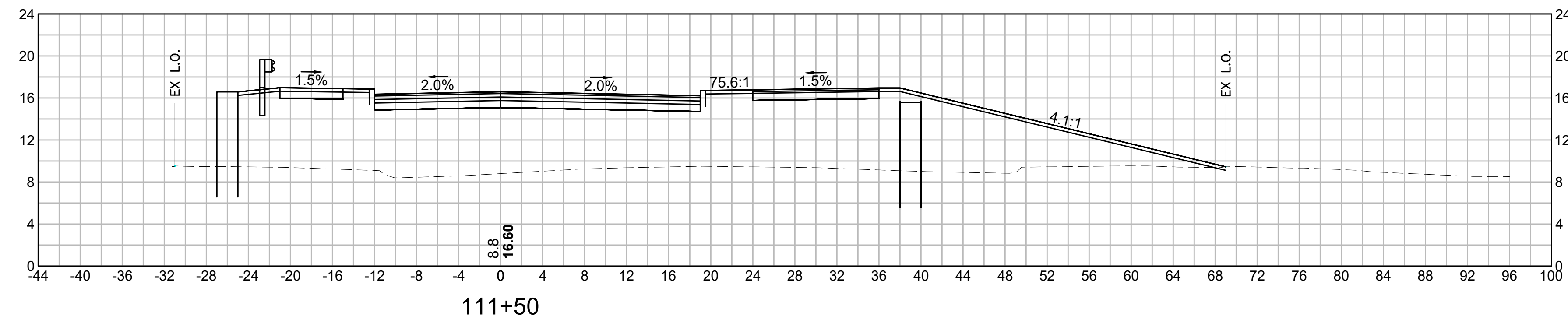


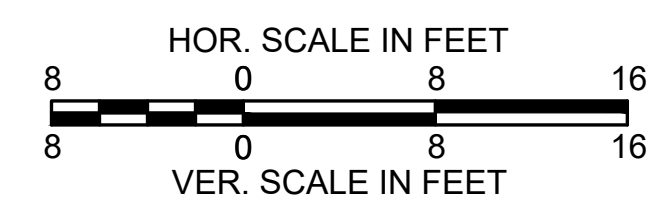
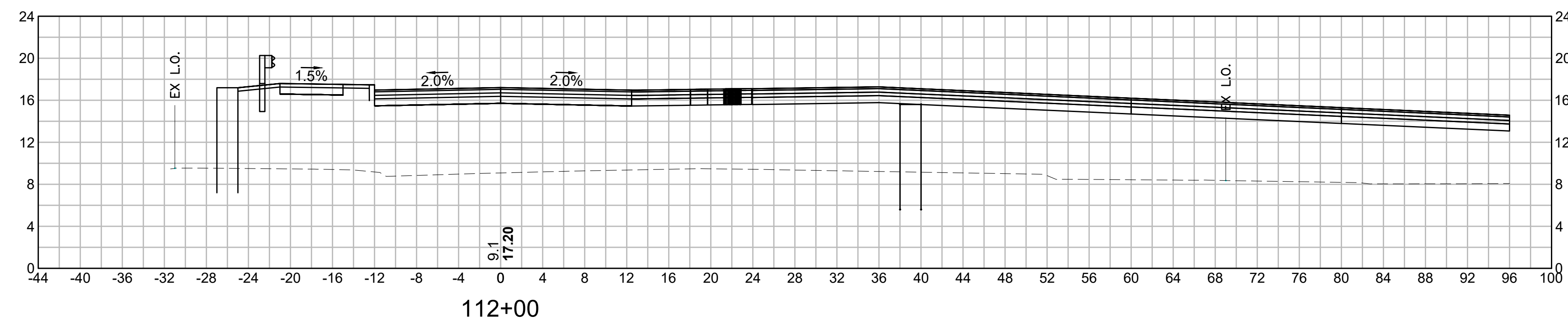
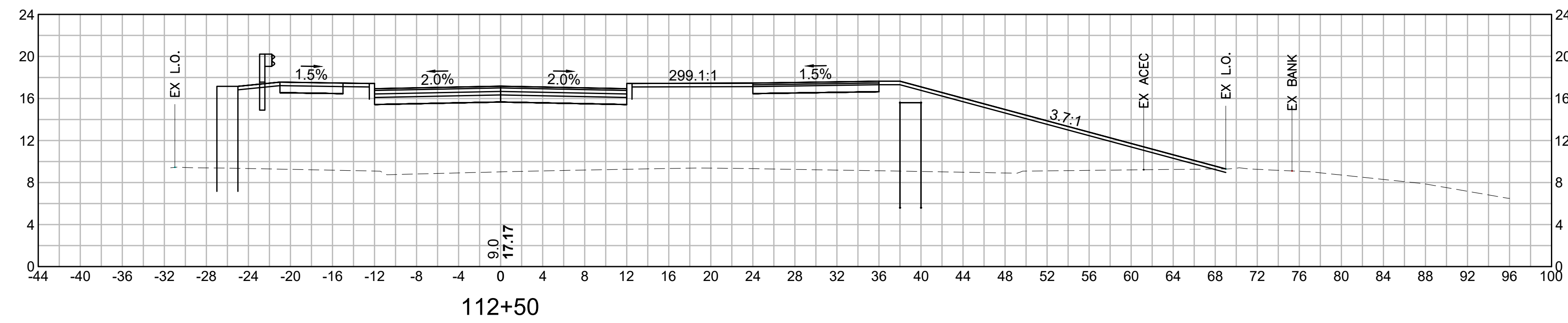
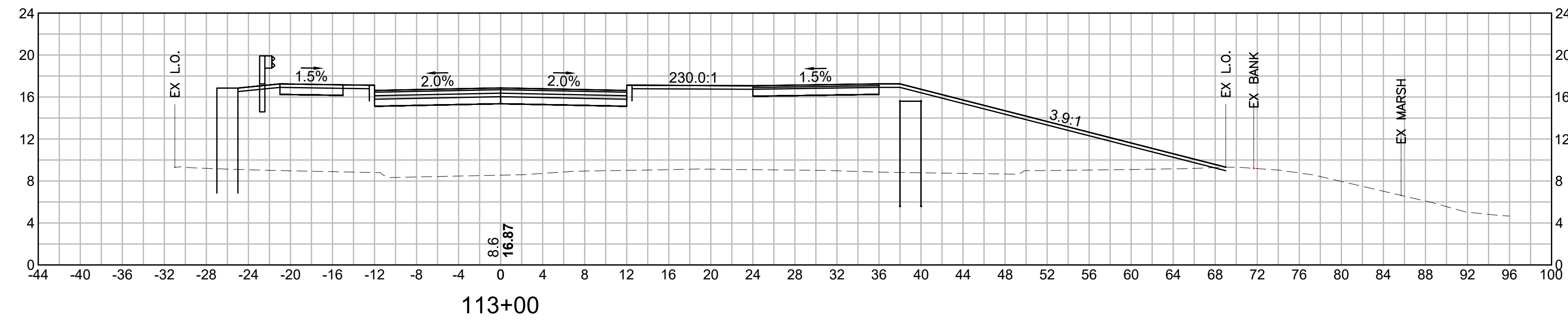


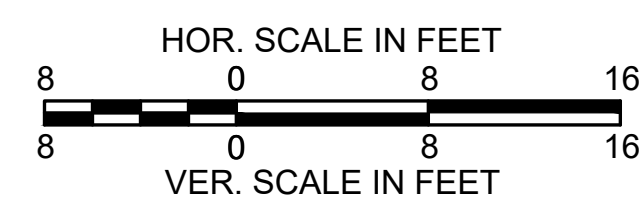
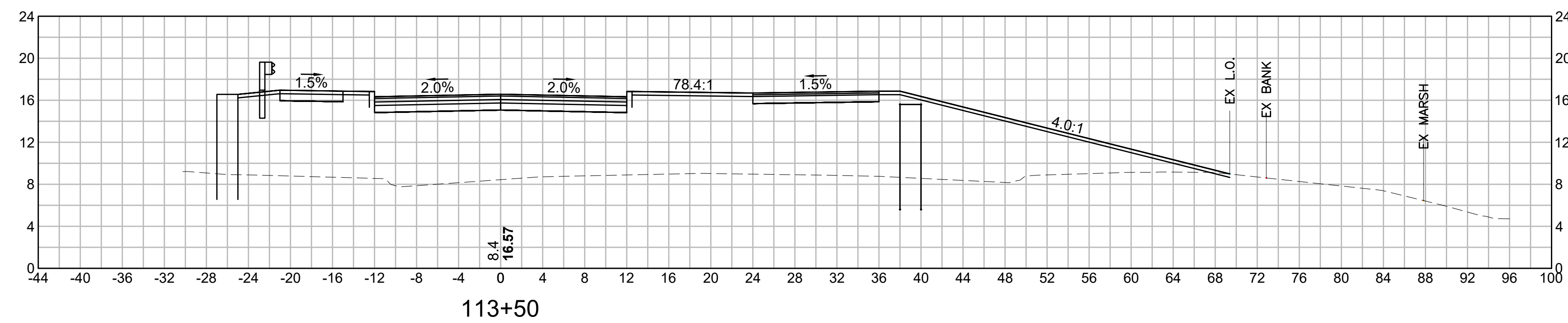
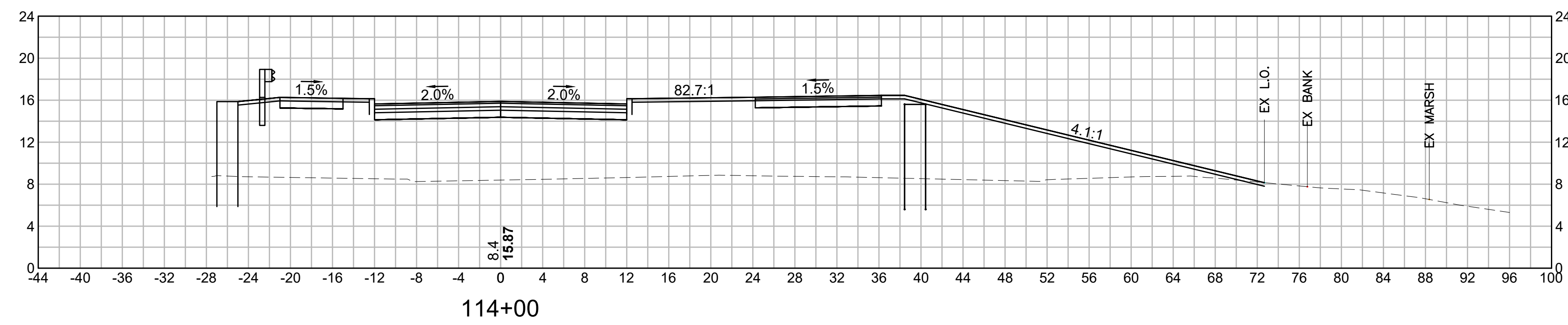
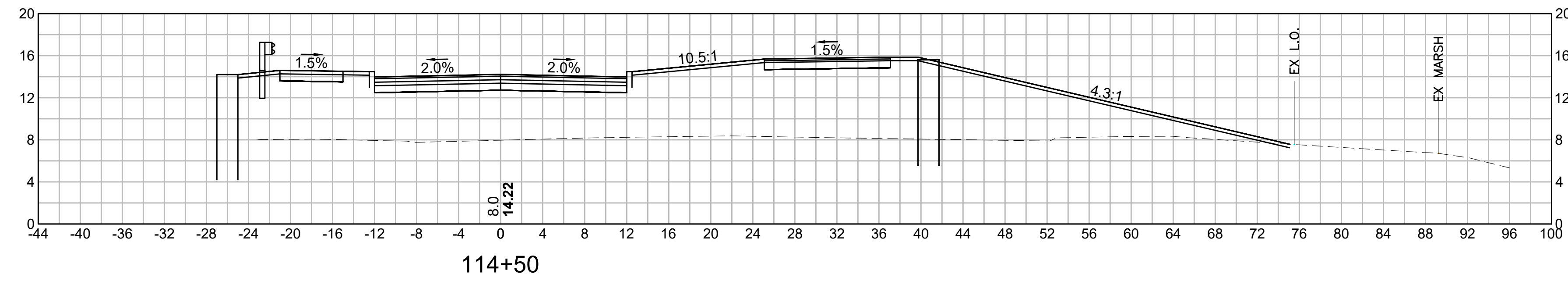


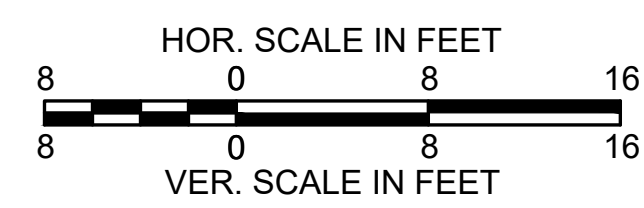
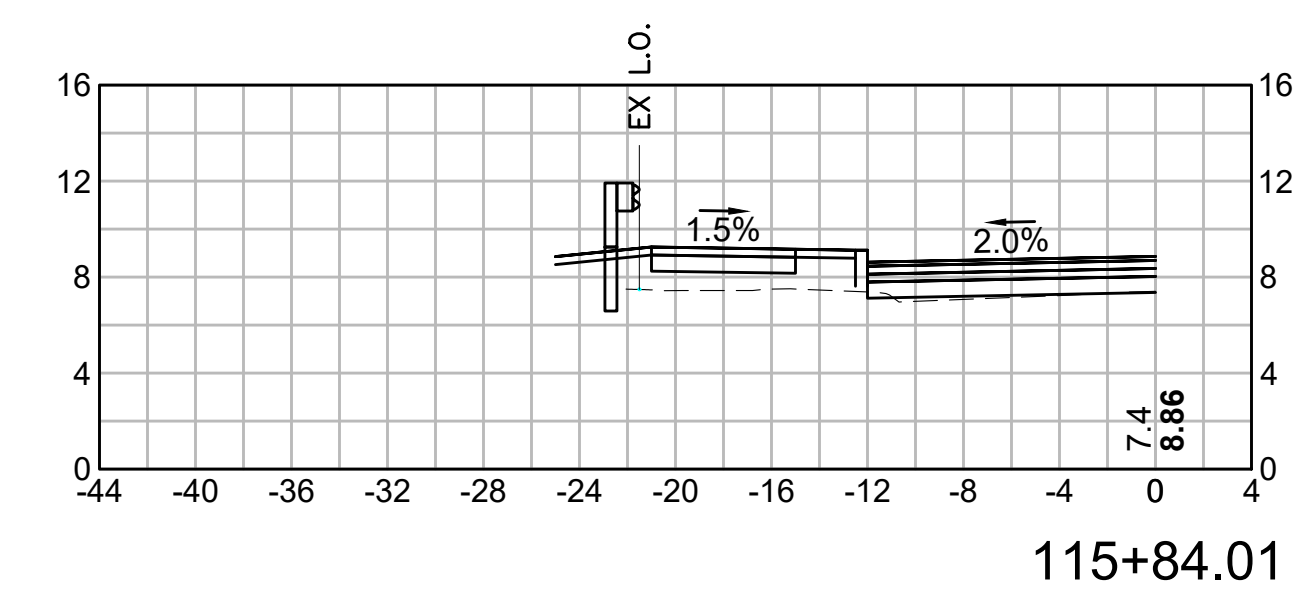
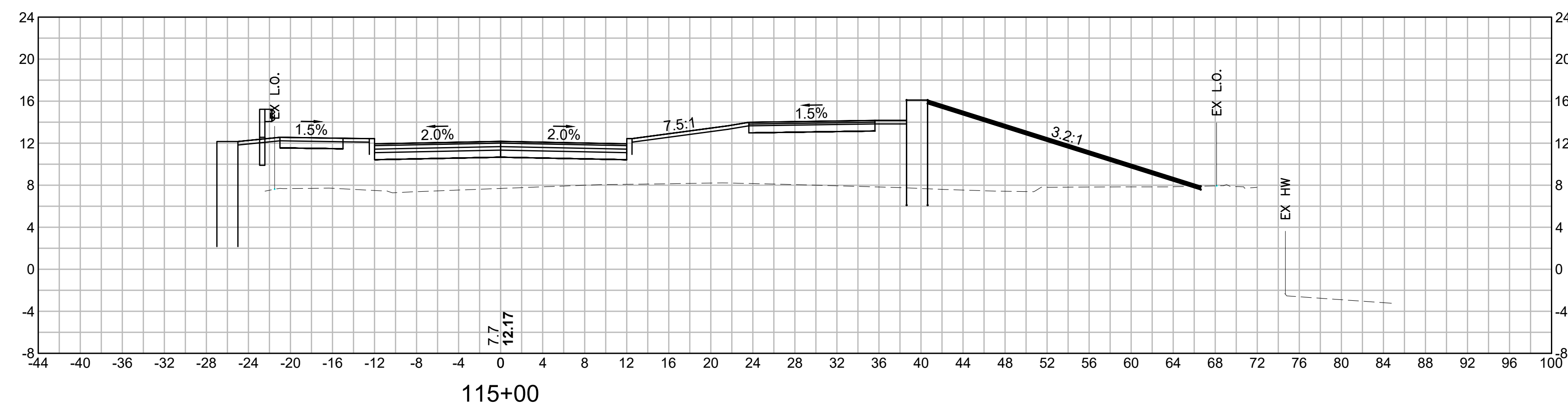
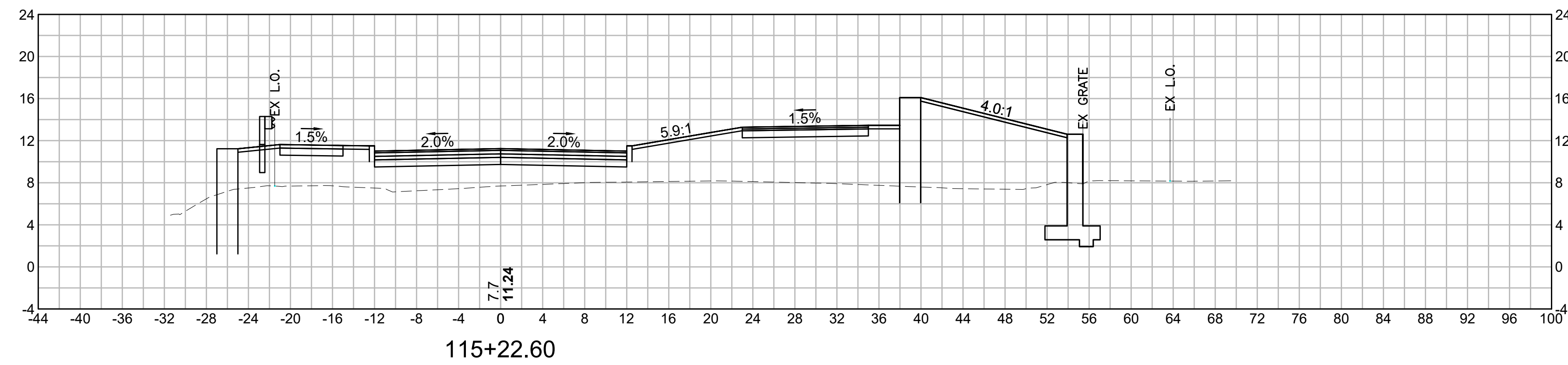
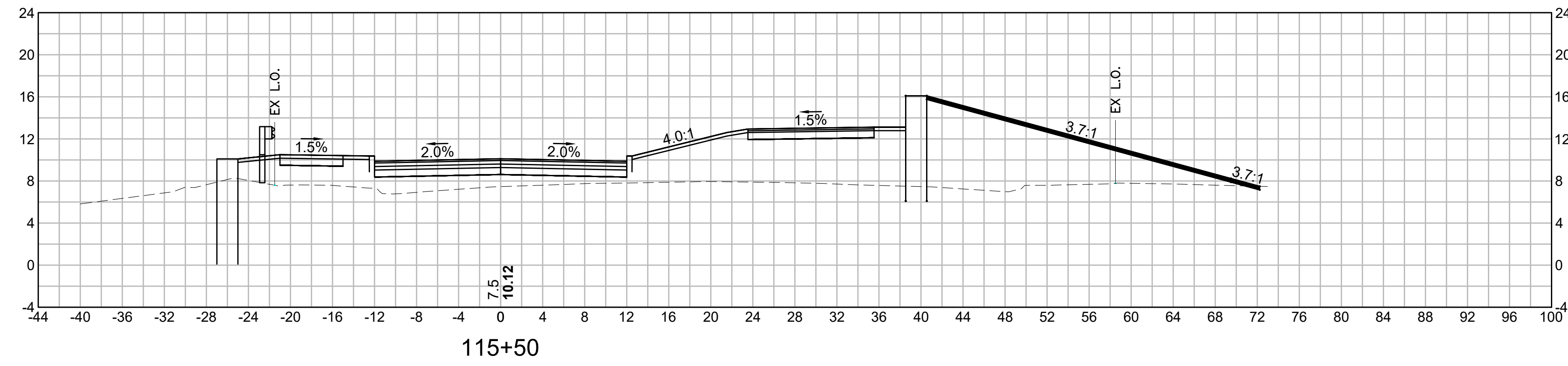


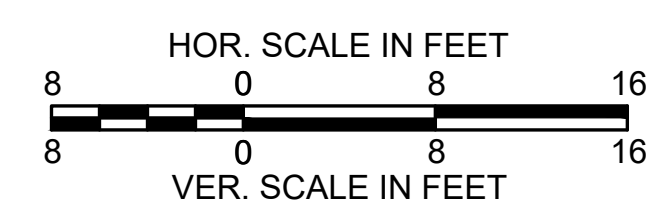
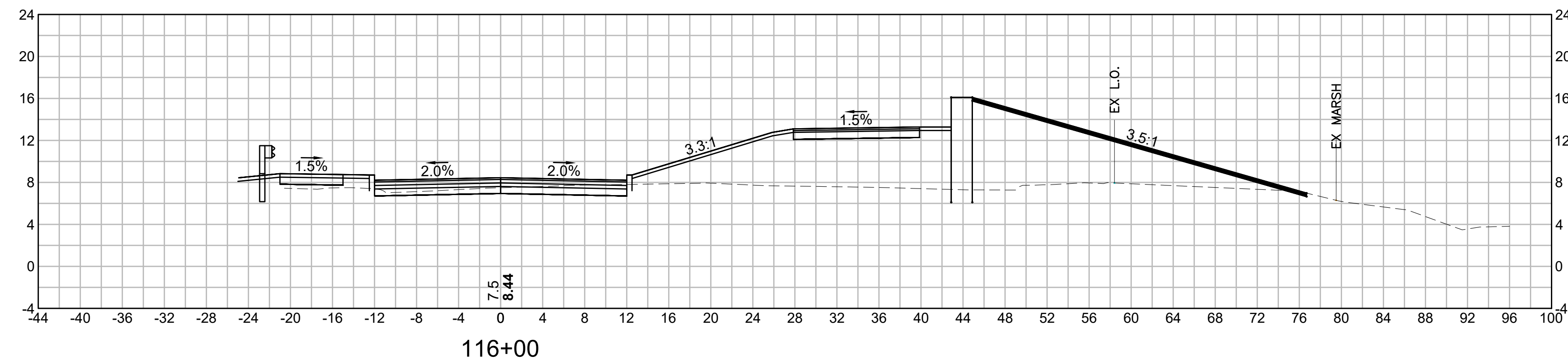
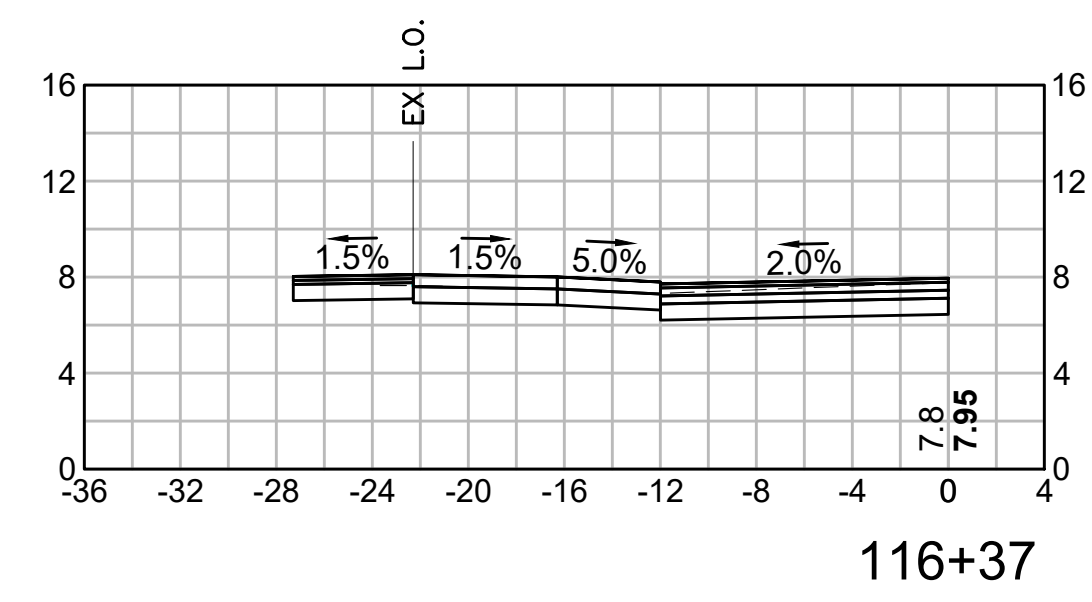
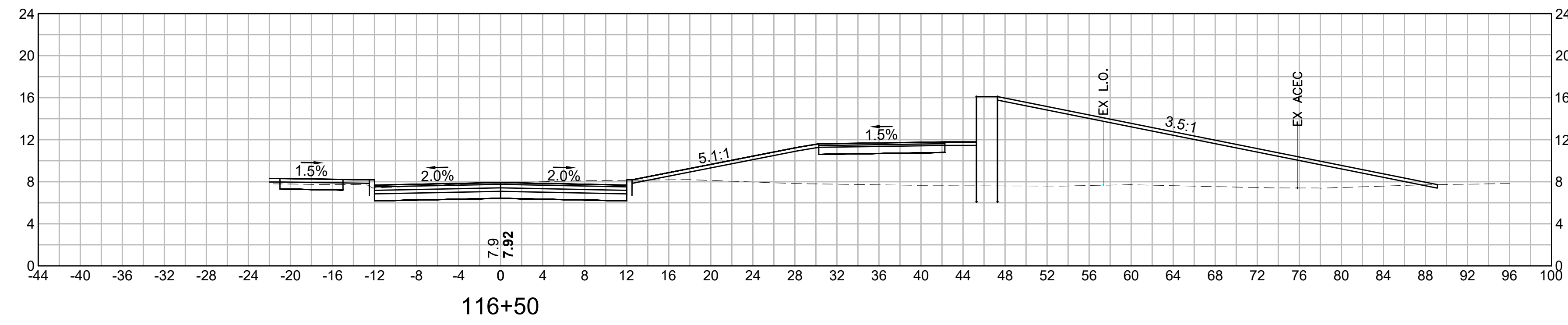


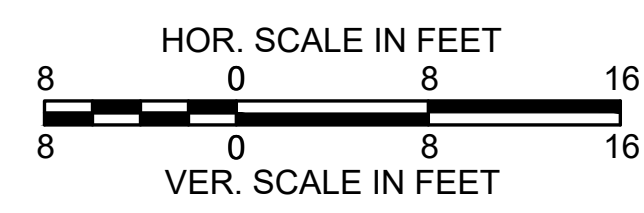
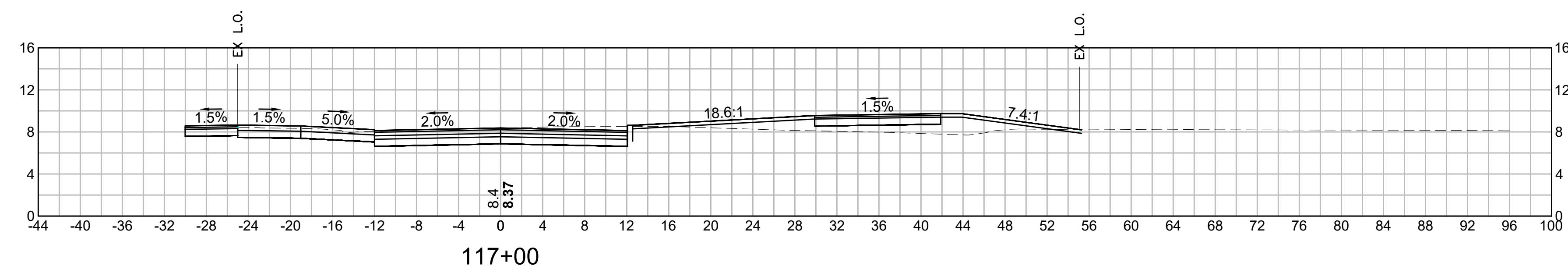
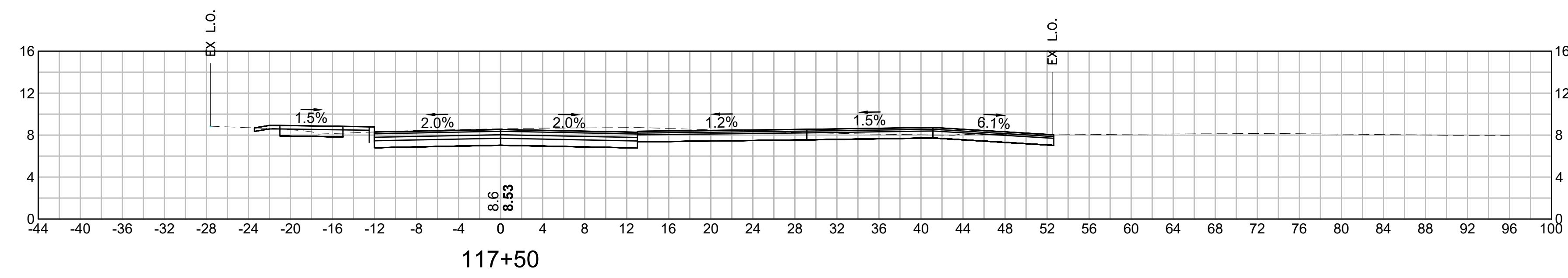


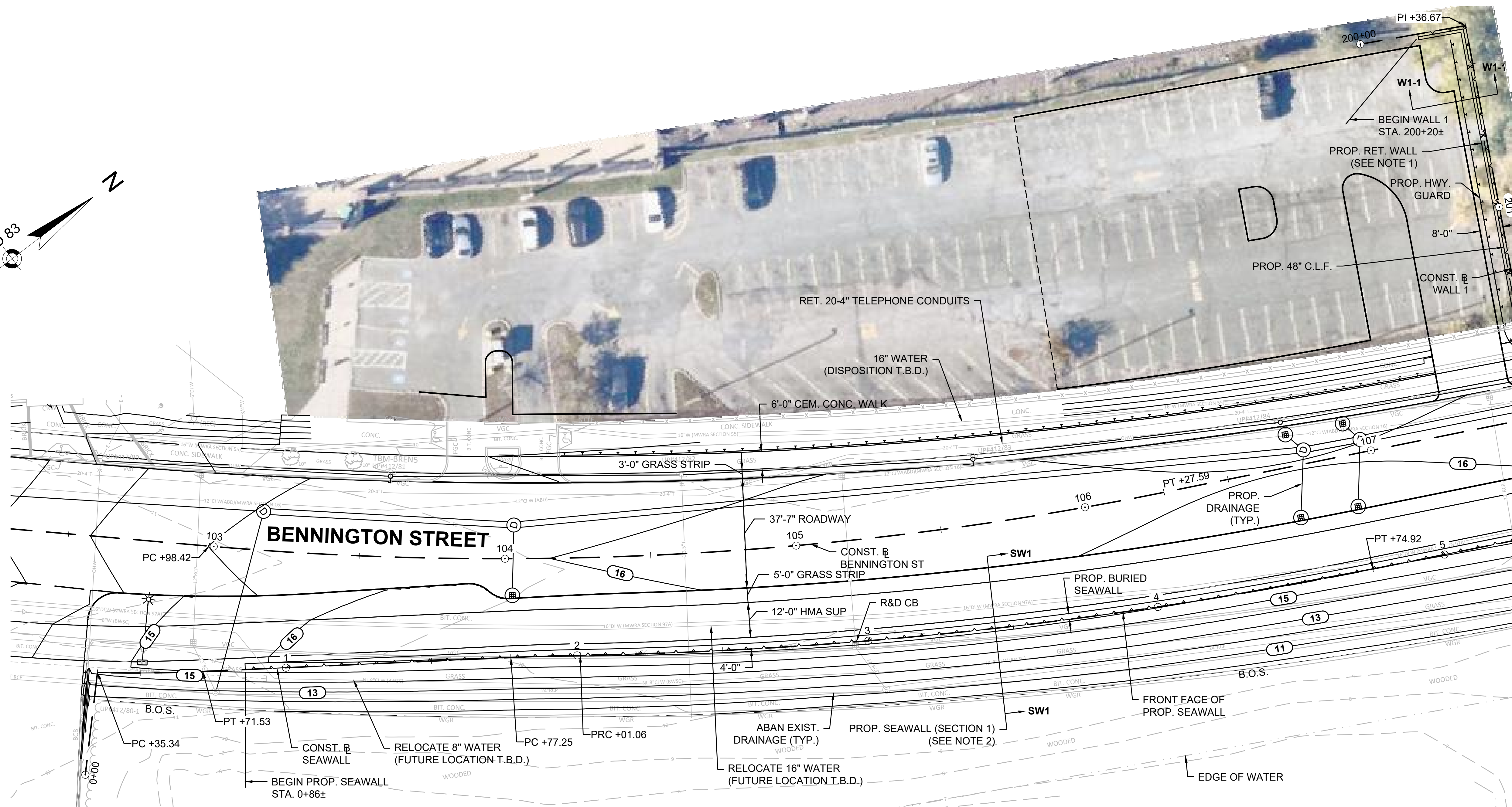
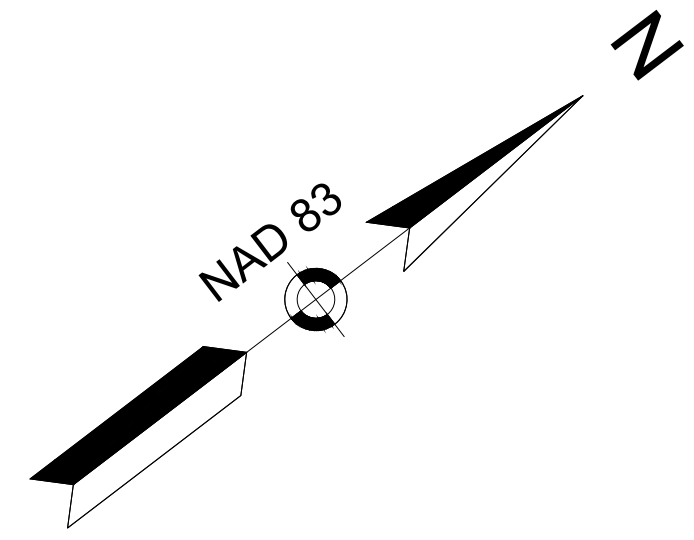




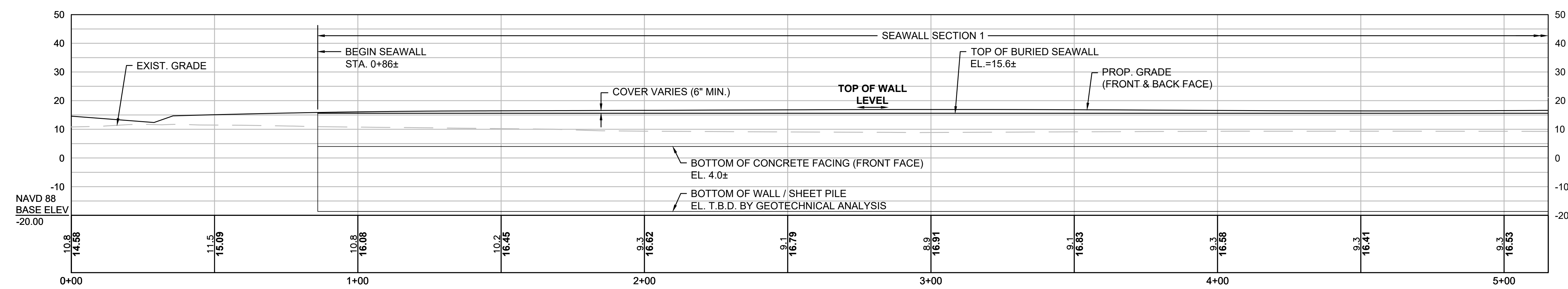




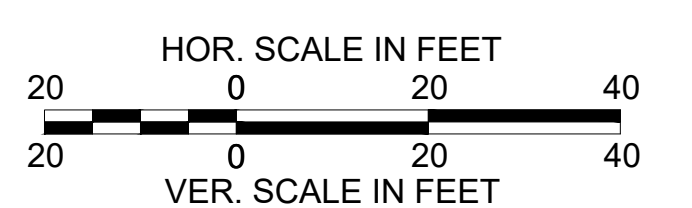




PLAN

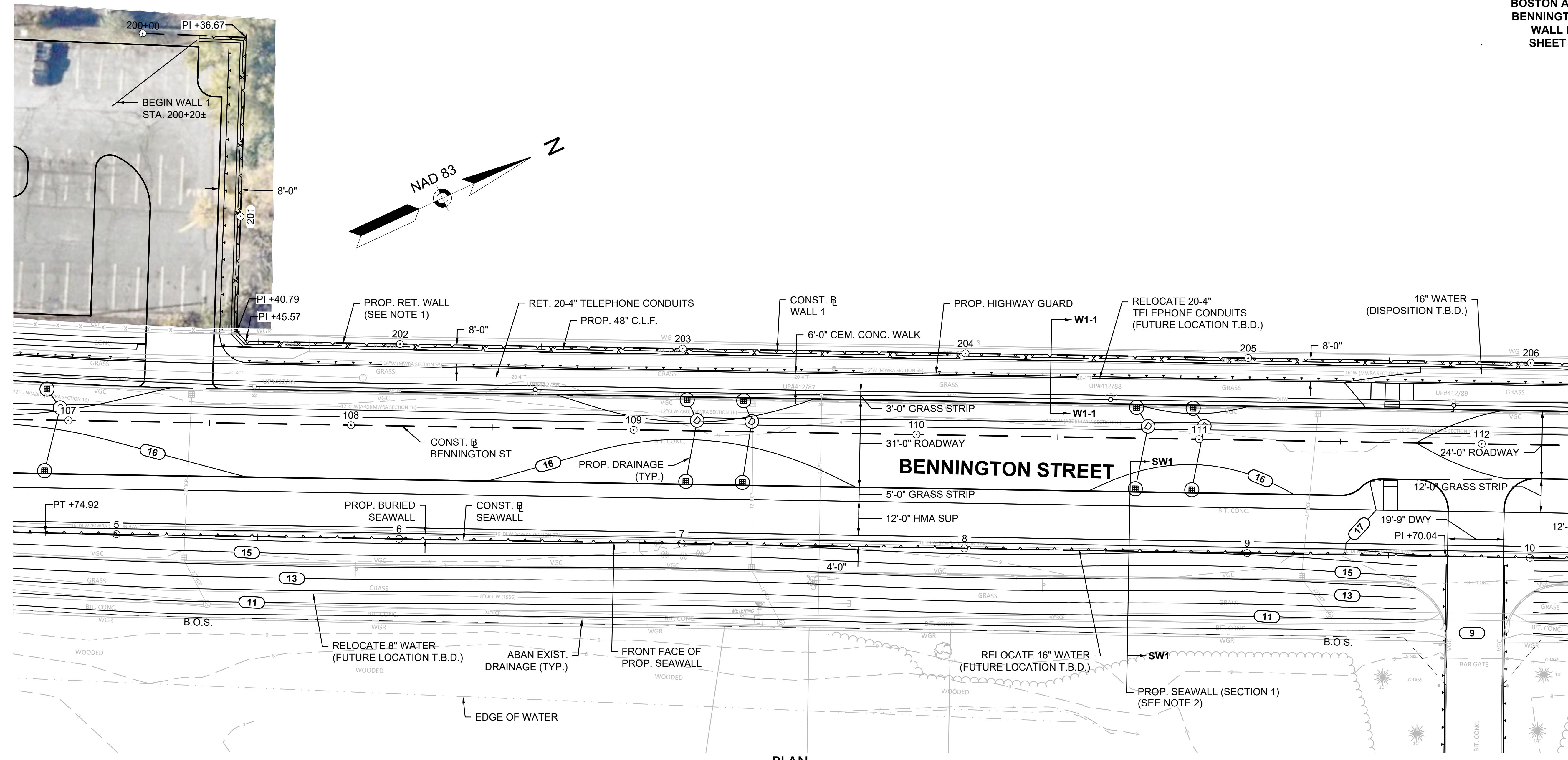


SEAWALL PROFILE

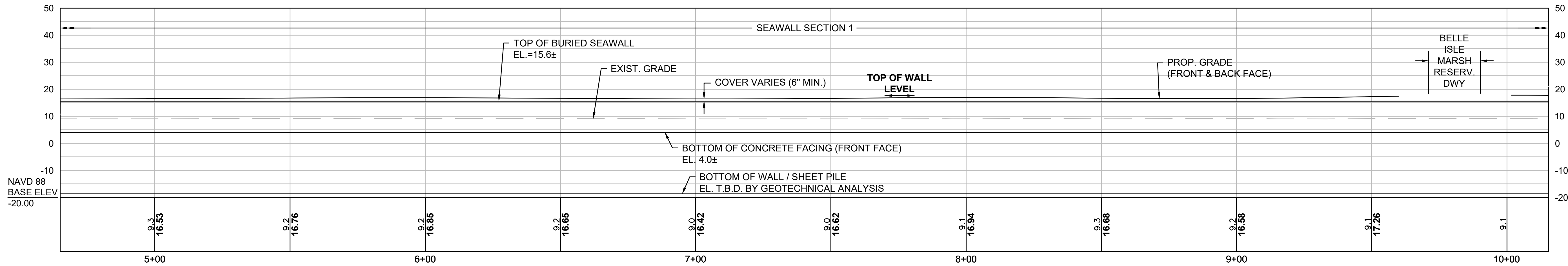


- NOTES:
1. SEE SHEET 46 FOR WALL 1 ELEVATION AND SECTION.
 2. SEE SHEET 47 FOR SEAWALL SECTION 1.

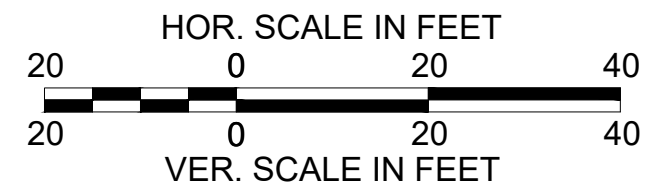
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PLAN



SEAWALL PROFILE

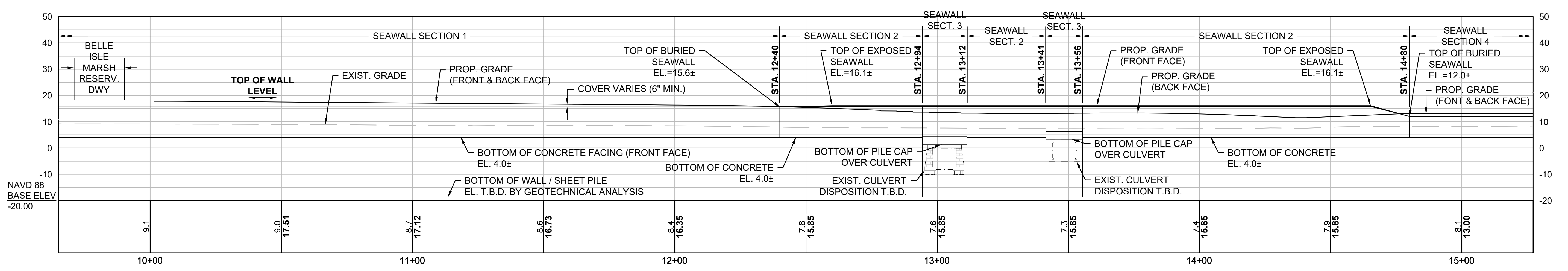
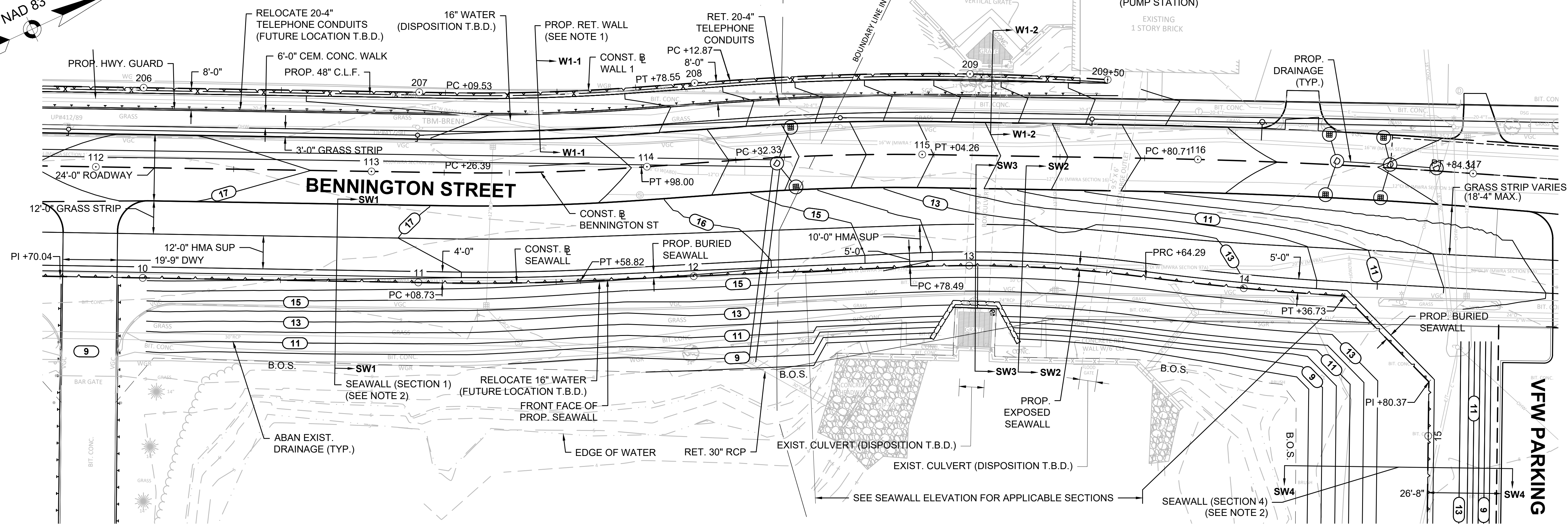
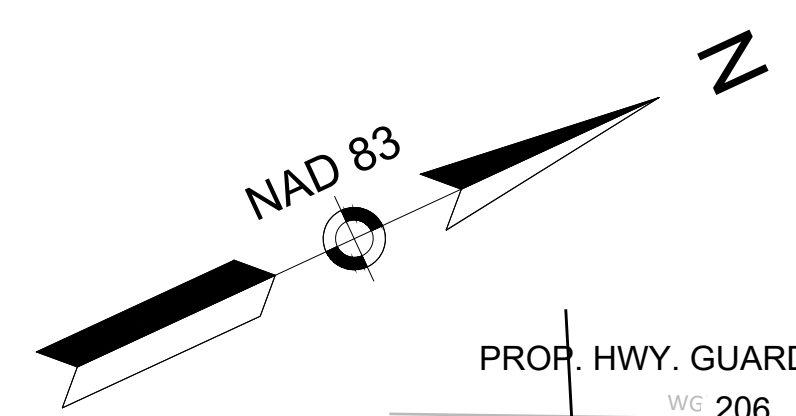


- NOTES:
- SEE SHEET 46 FOR WALL 1 ELEVATION AND SECTION.
 - SEE SHEET 47 FOR SEAWALL SECTION 1.

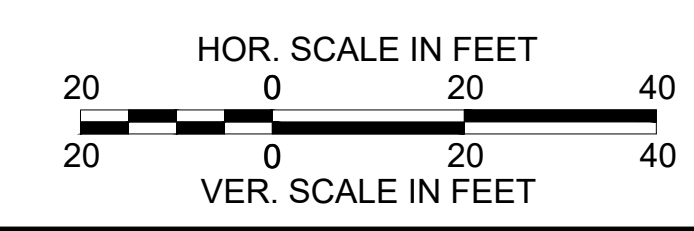
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CONTINUED ON SHEET NO. 42

NAVD 88
 BASE ELEV
 -20.00



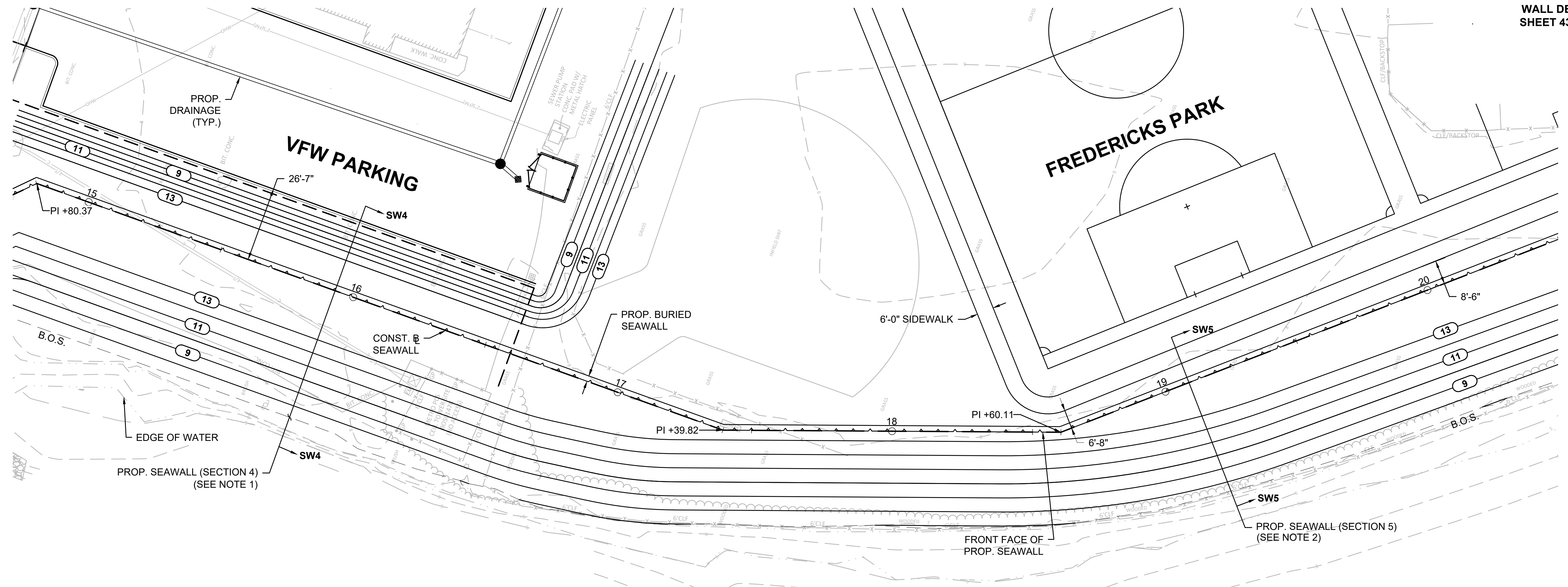
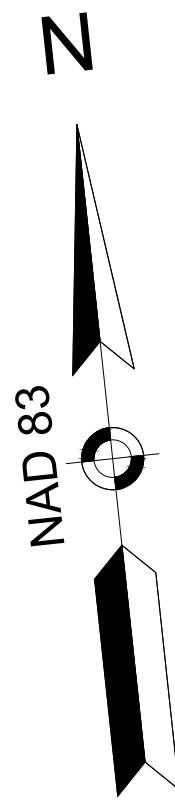
SEAWALL PROFILE



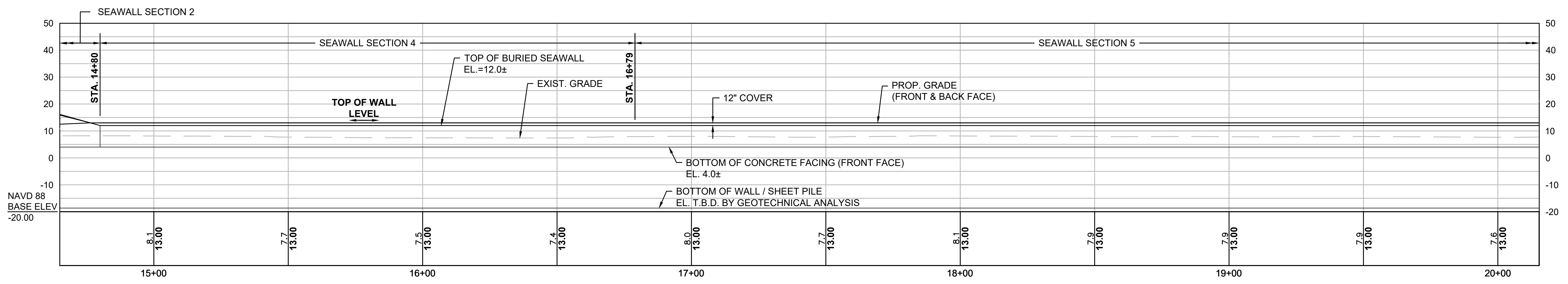
- NOTES:**
- SEE SHEET 46 FOR WALL 1 ELEVATION AND SECTIONS.
 - SEE SHEET 47 FOR SEAWALL SECTIONS 1 TO 4.

CONTINUED ON SHEET NO. 41

CONTINUED ON SHEET NO. 43

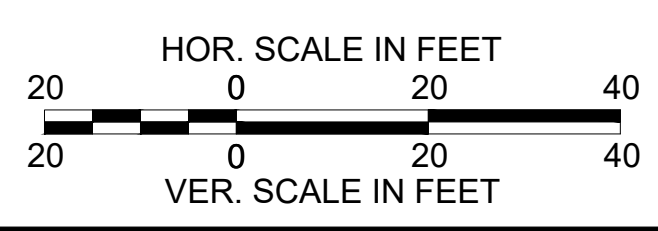


PLAN



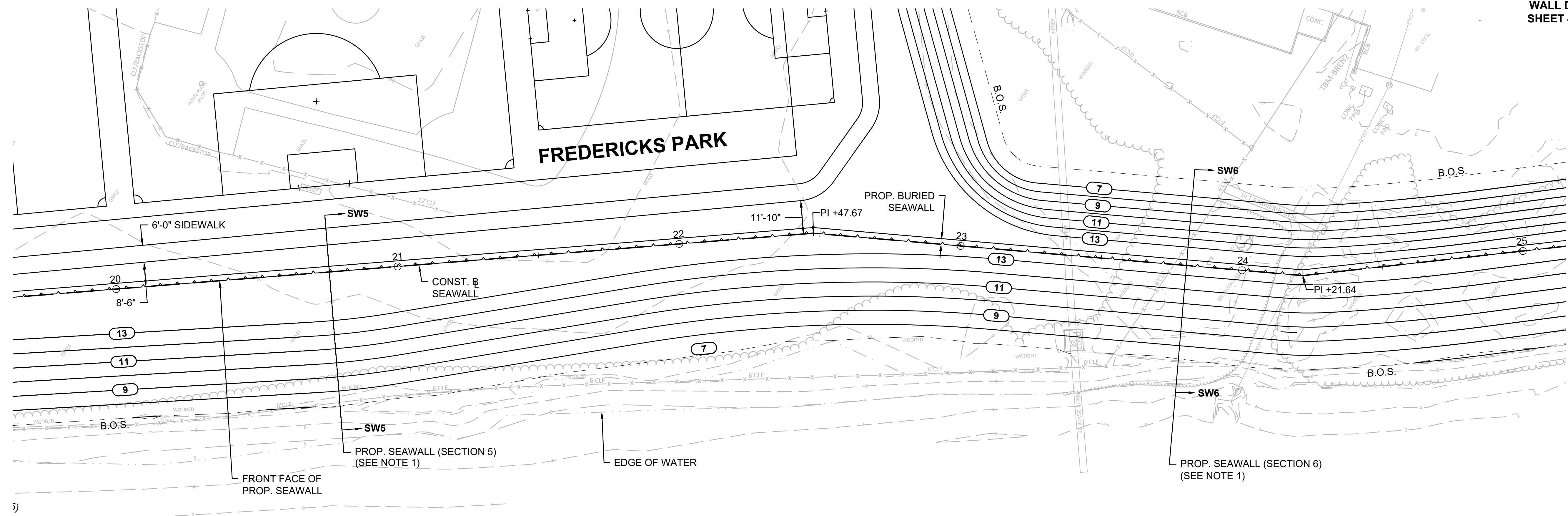
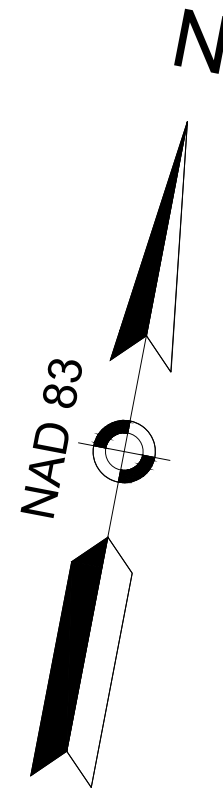
SEAWALL PROFILE

- NOTES:
- SEE SHEET 47 FOR SEAWALL SECTION 4.
 - SEE SHEET 48 FOR SEAWALL SECTION 5.

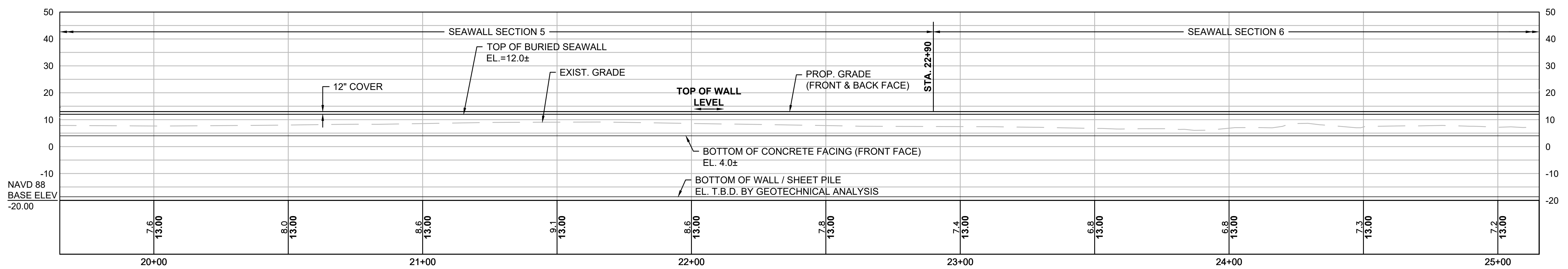


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CONTINUED ON SHEET NO. 44

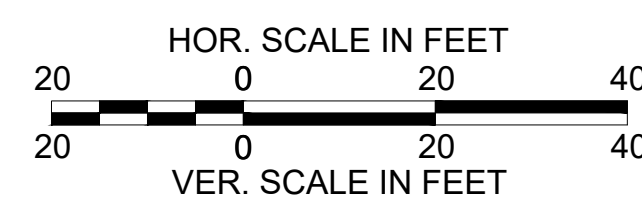


PLAN



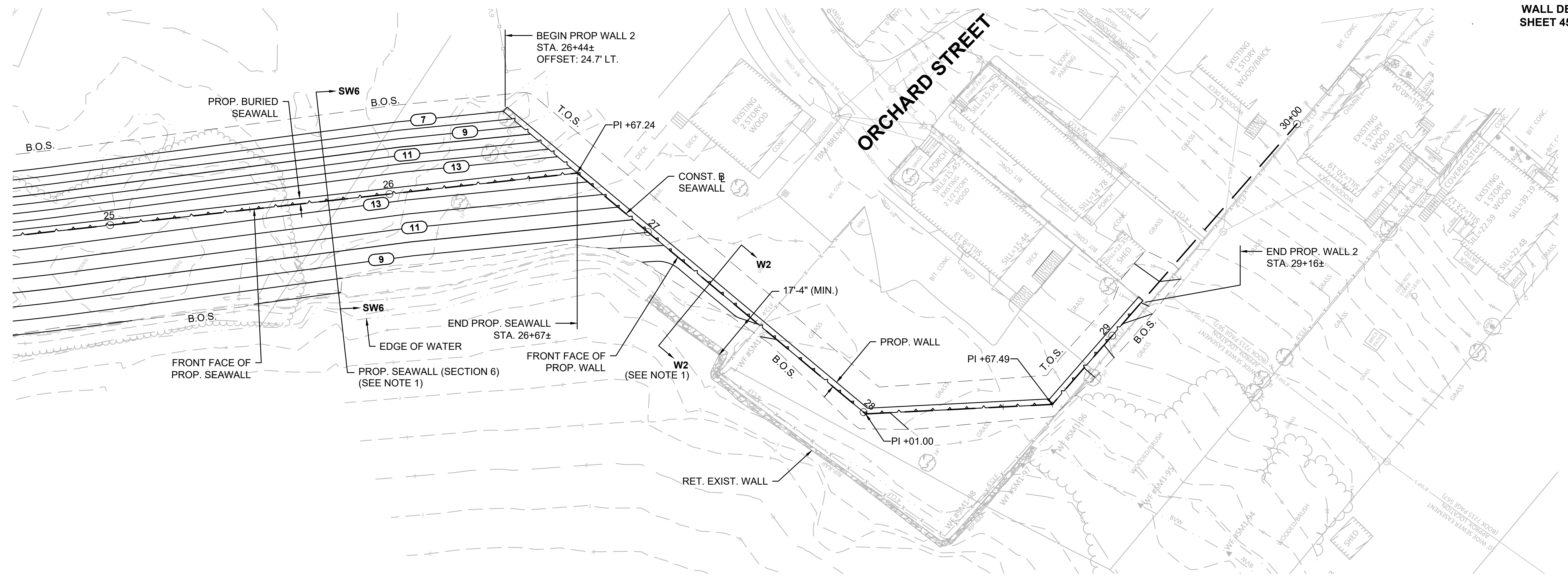
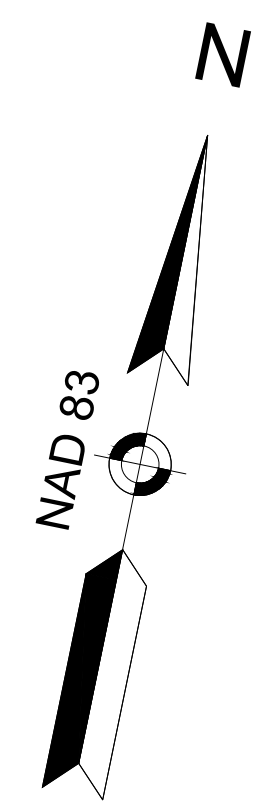
SEAWALL PROFILE

NOTE:
 1. SEE SHEET 48 FOR SEAWALL SECTIONS 5 AND 6.

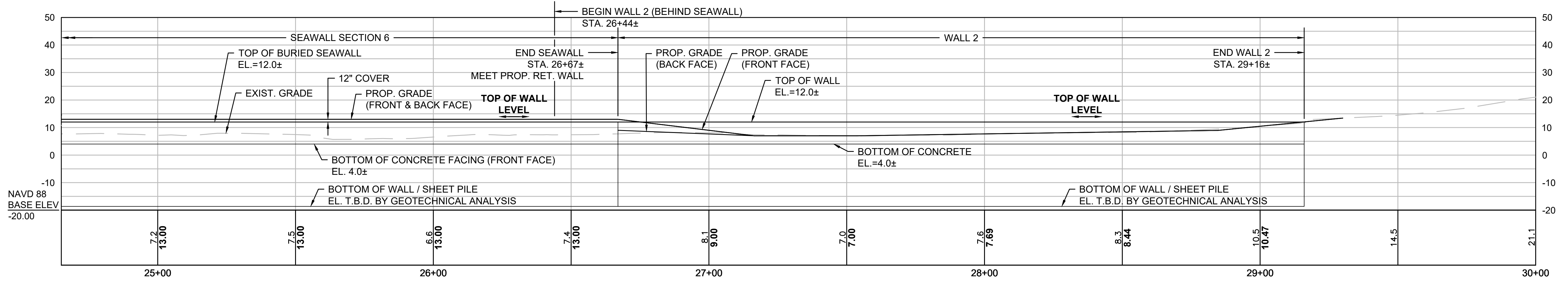


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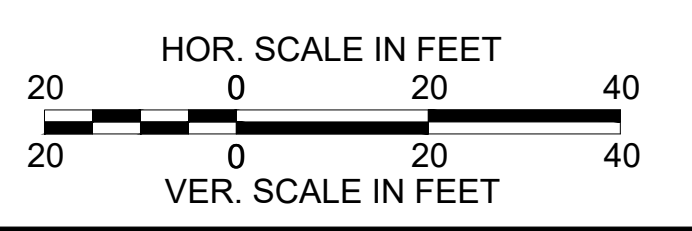
CONTINUED ON
 SHEET NO. 45



PLAN

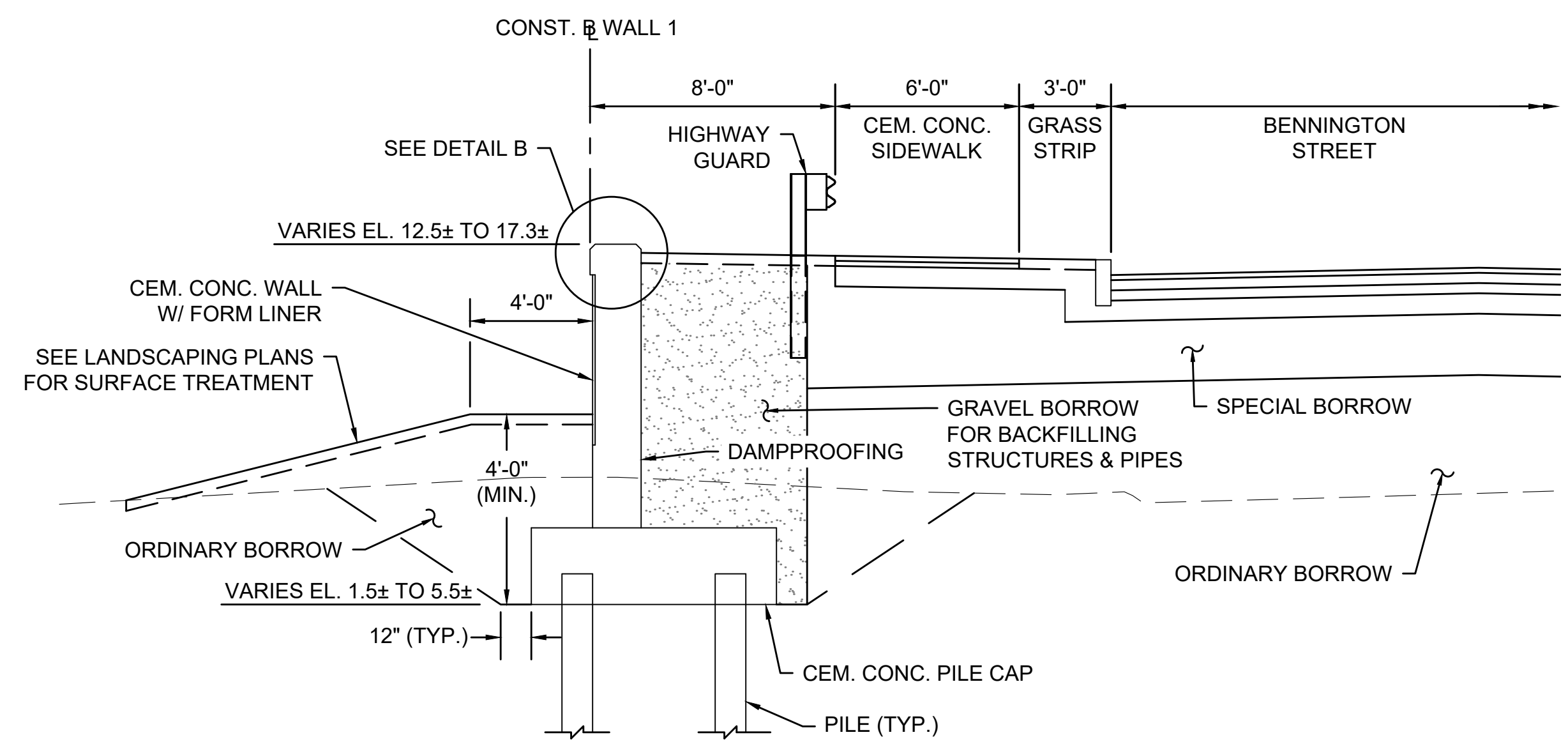


SEAWALL PROFILE

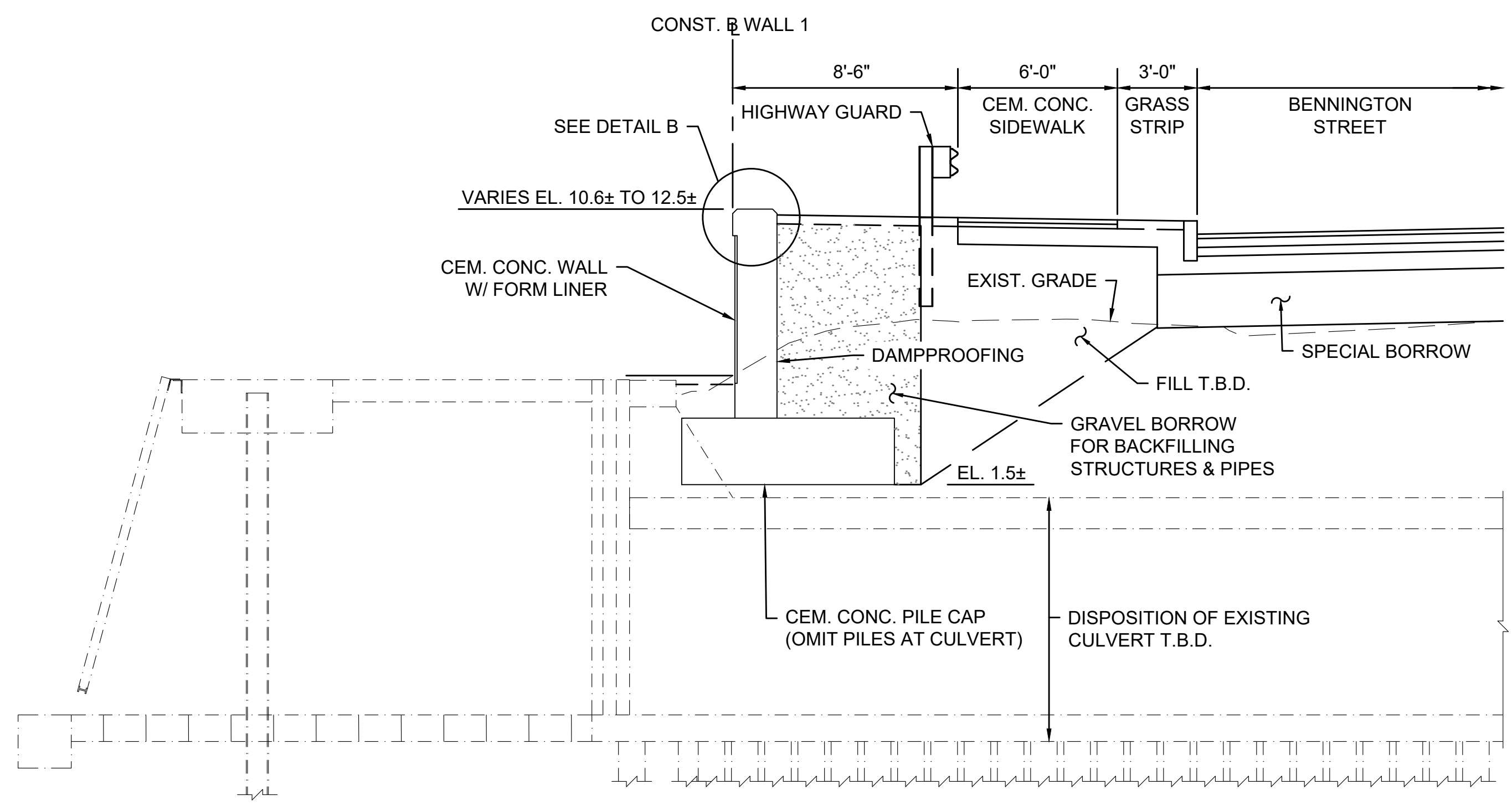


NOTE:
1. SEE SHEET 48 FOR SEAWALL SECTION 6 AND WALL 2 SECTION.

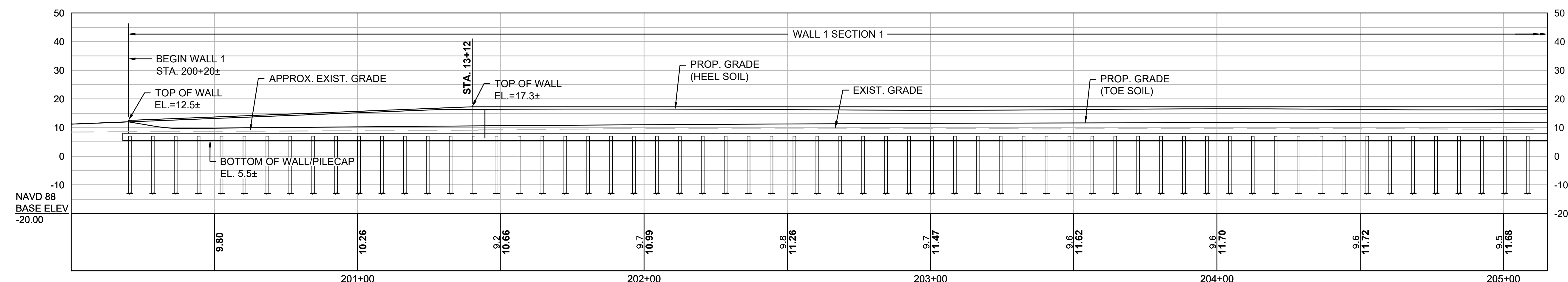
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SHEET NO. 44



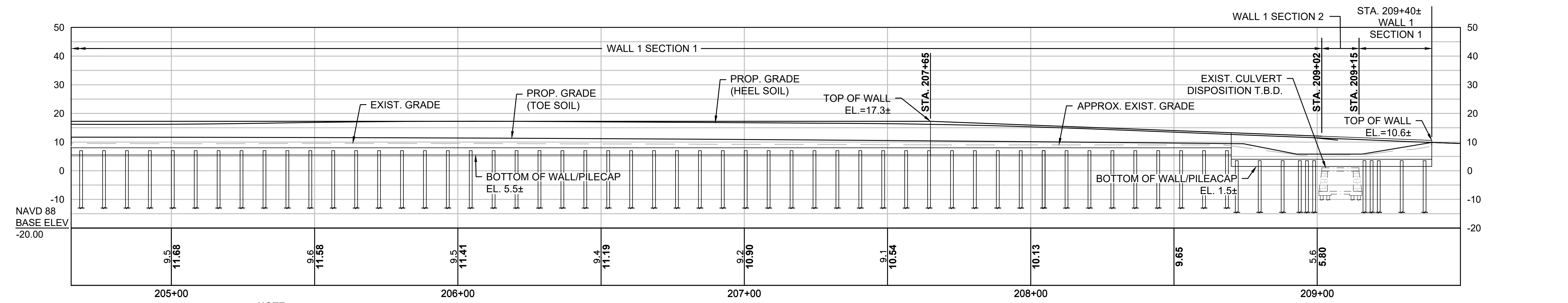
WALL 1 SECTION 1 (W1-1)
SCALE: 3" = 1'-0"



WALL 1 SECTION 2 (W1-2)
SCALE: 3" = 1'-0"

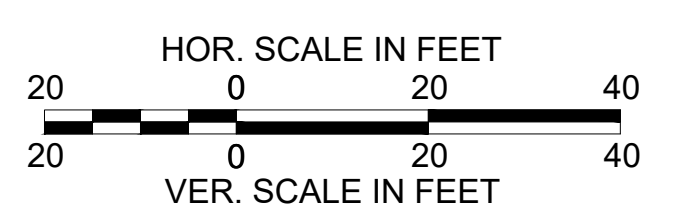


NOTE:
PILE SPACING AND DEPTH T.B.D. BY GEOTECHNICAL



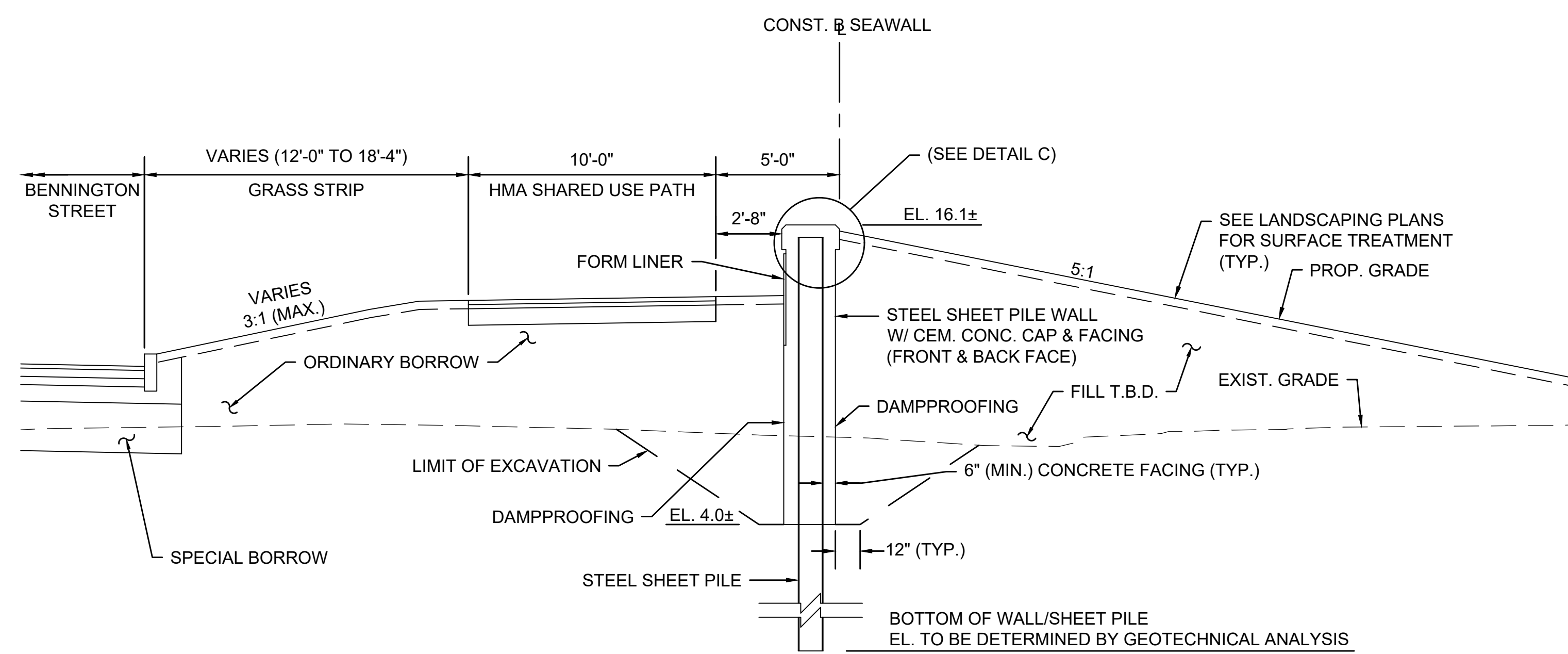
NOTE:
PILE SPACING AND DEPTH T.B.D. BY GEOTECHNICAL

WALL 1 PROFILE

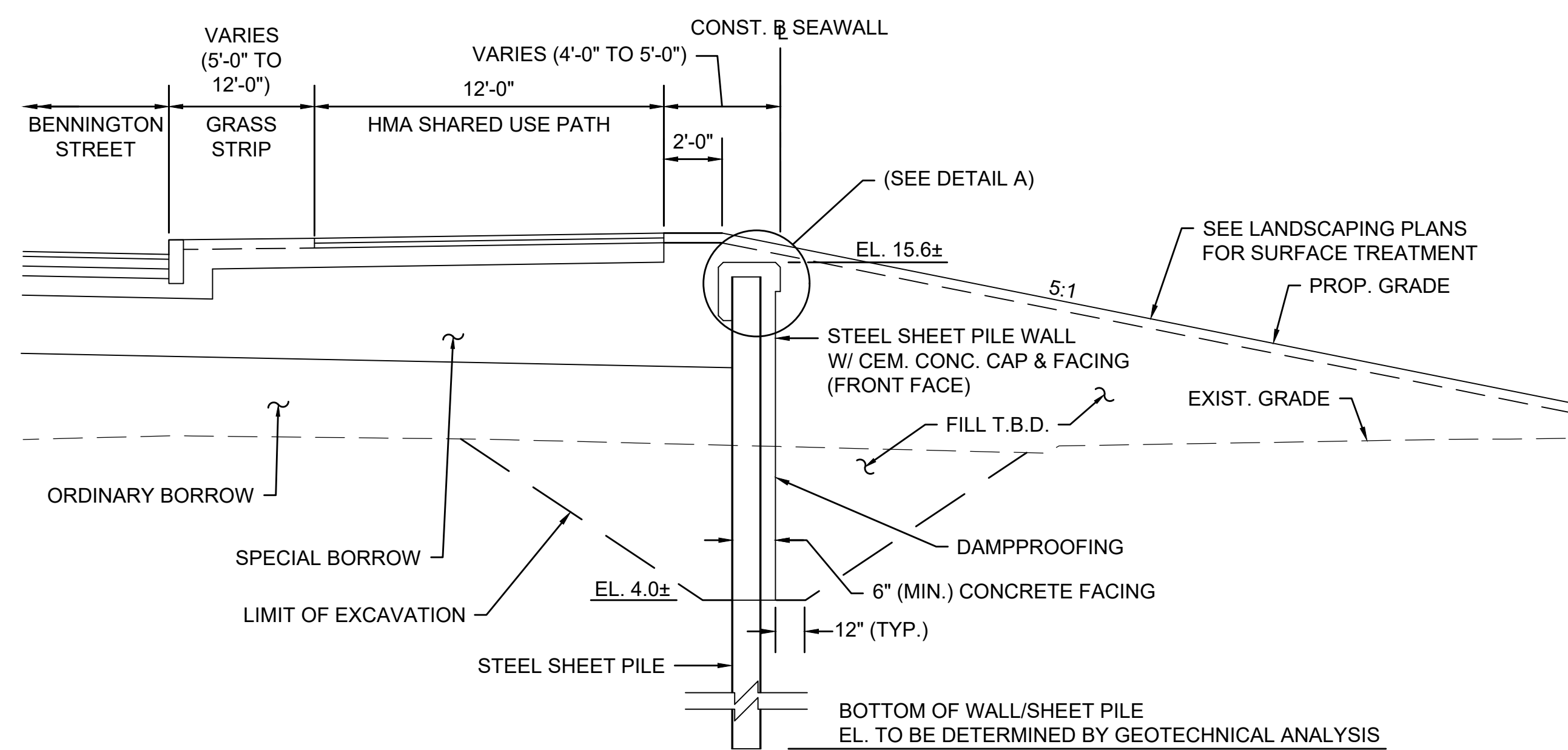


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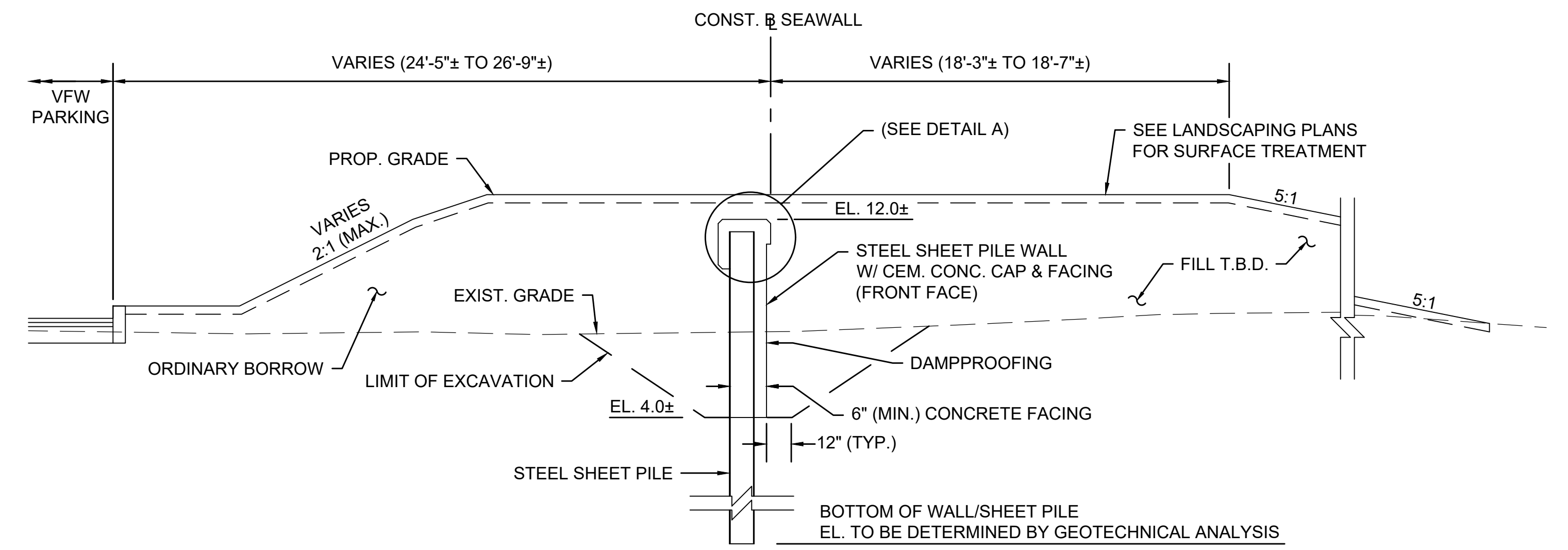
CONTINUED ABOVE



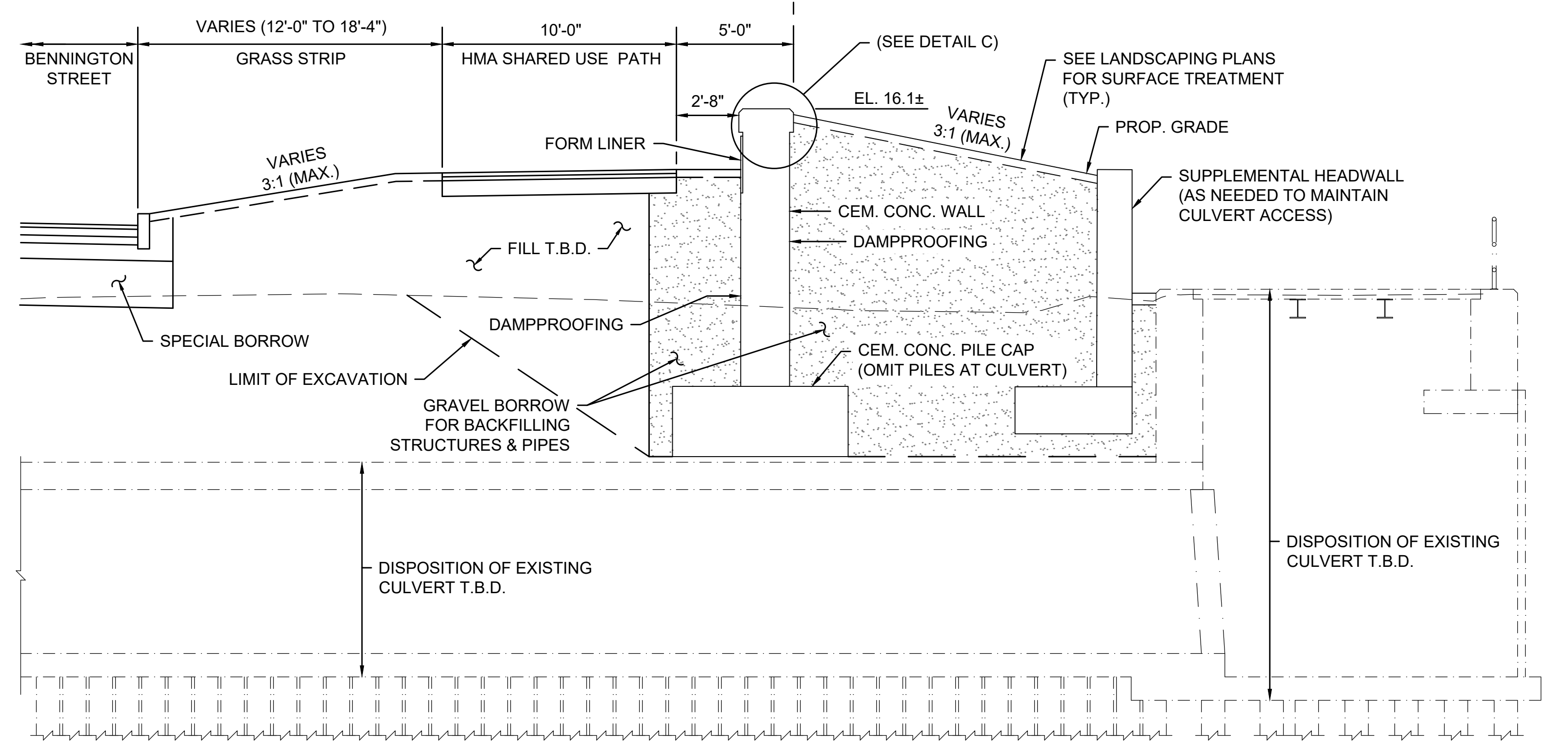
SEAWALL SECTION 2 (SW2)
 SCALE: 3" = 1'-0"



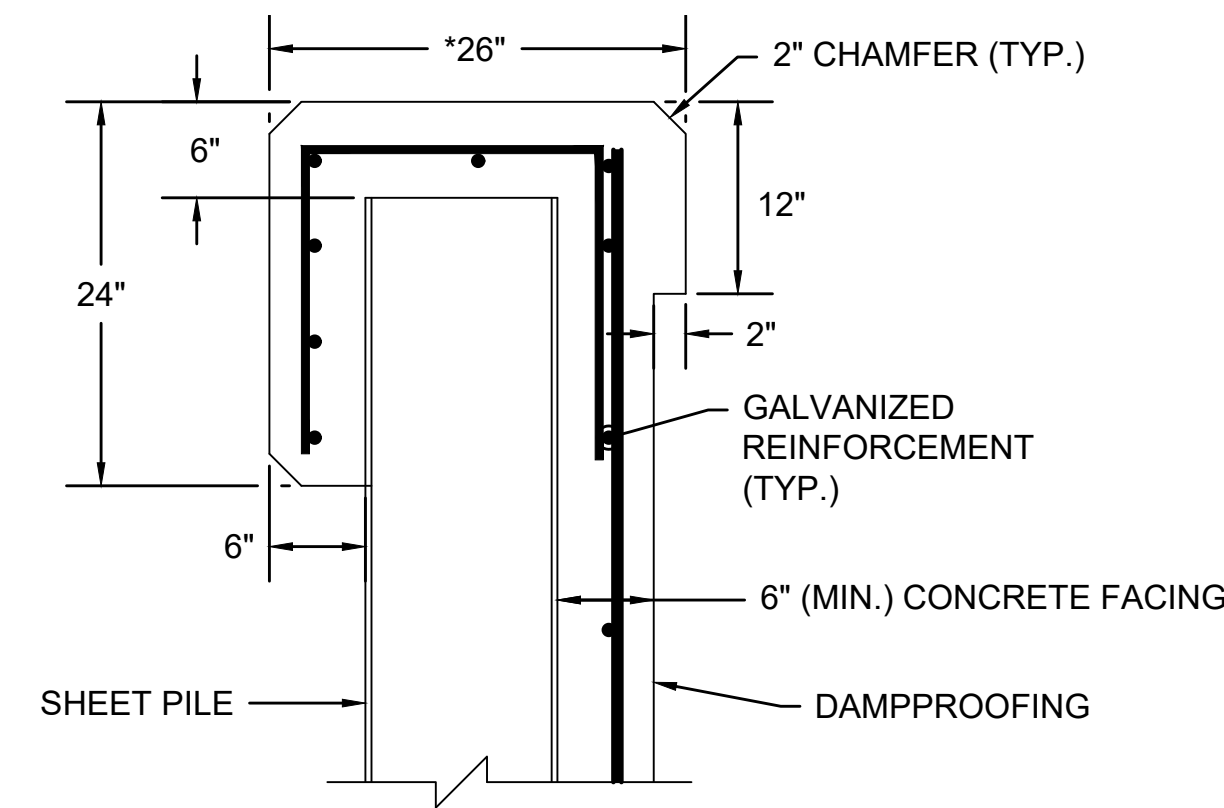
SEAWALL SECTION 1 (SW1)
 SCALE: 3" = 1'-0"



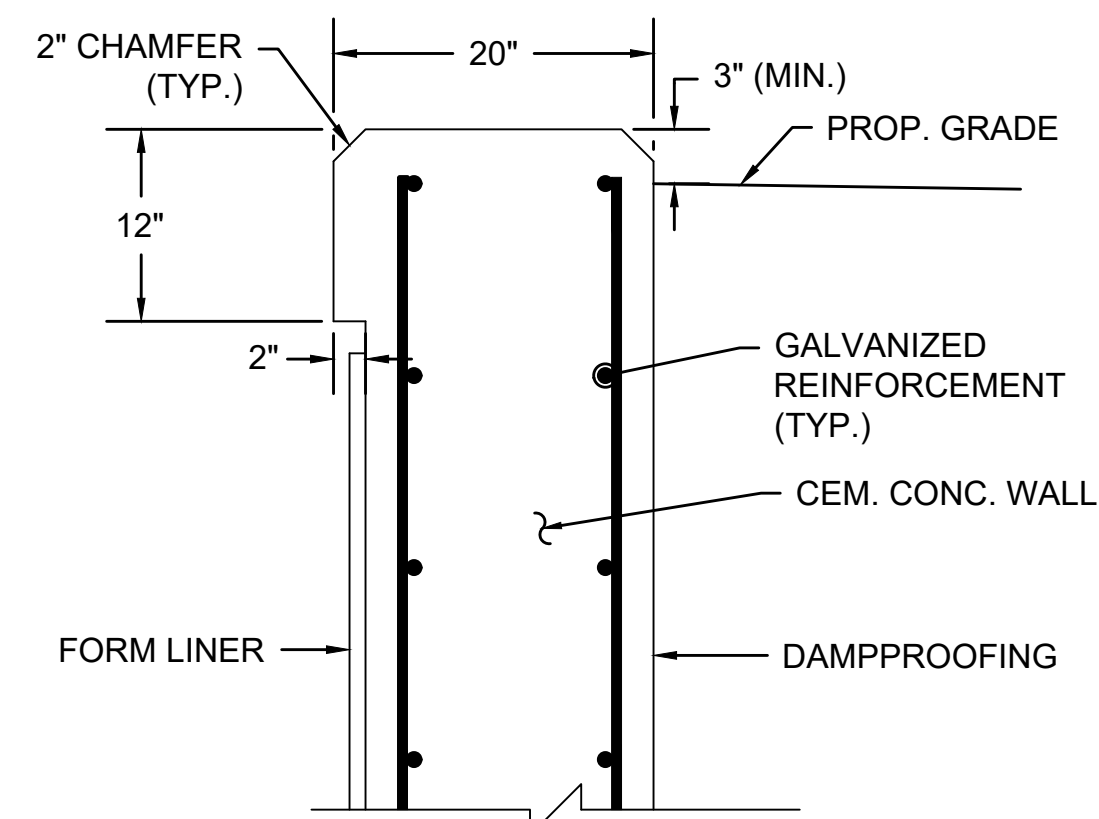
SEAWALL SECTION 4 (SW4)
 SCALE: 3" = 1'-0"
 CONST. SEAWALL



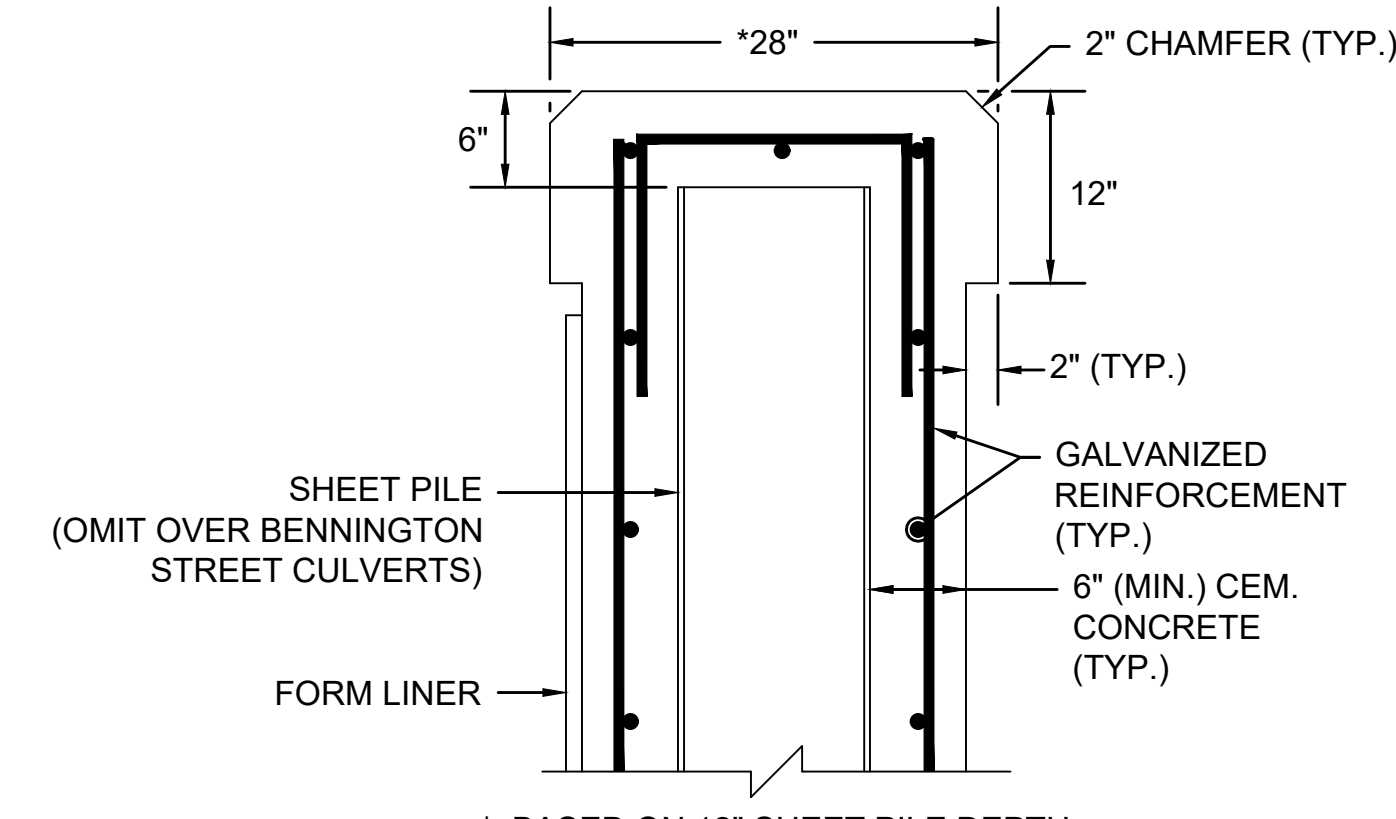
SEAWALL SECTION 3 (SW3)
 SCALE: 3" = 1'-0"



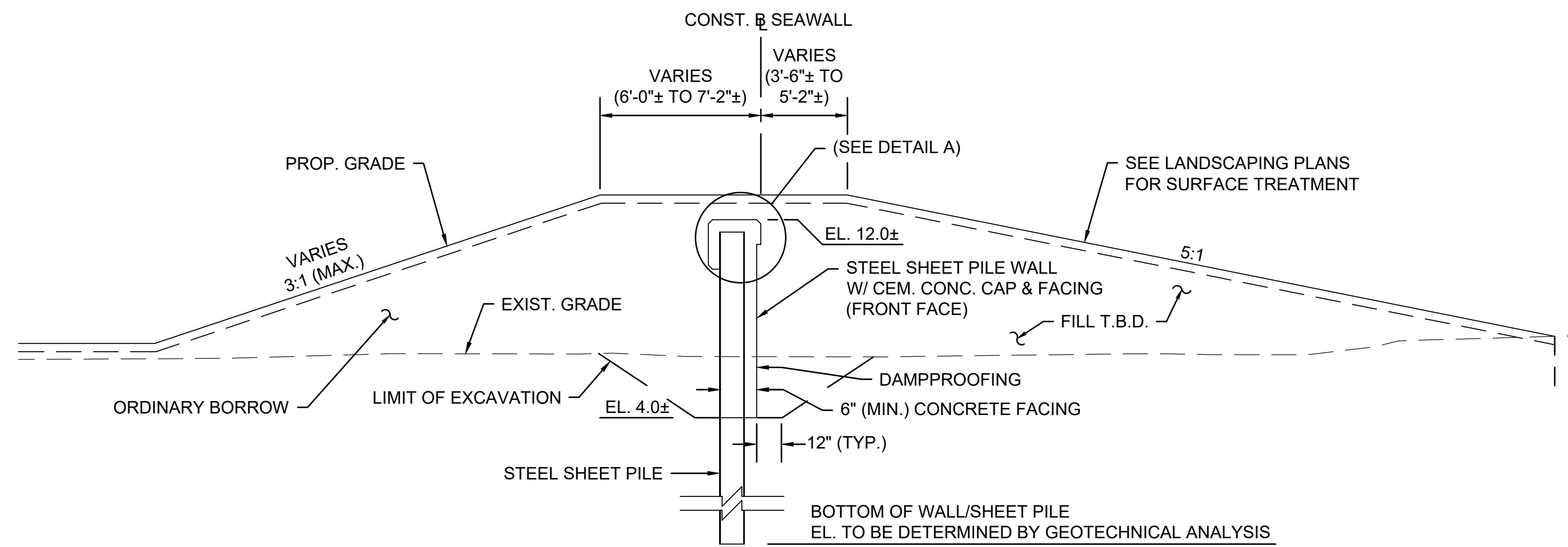
* BASED ON 12" SHEET PILE DEPTH.
DETAIL A
SCALE: 1'-0" = 1'-0"



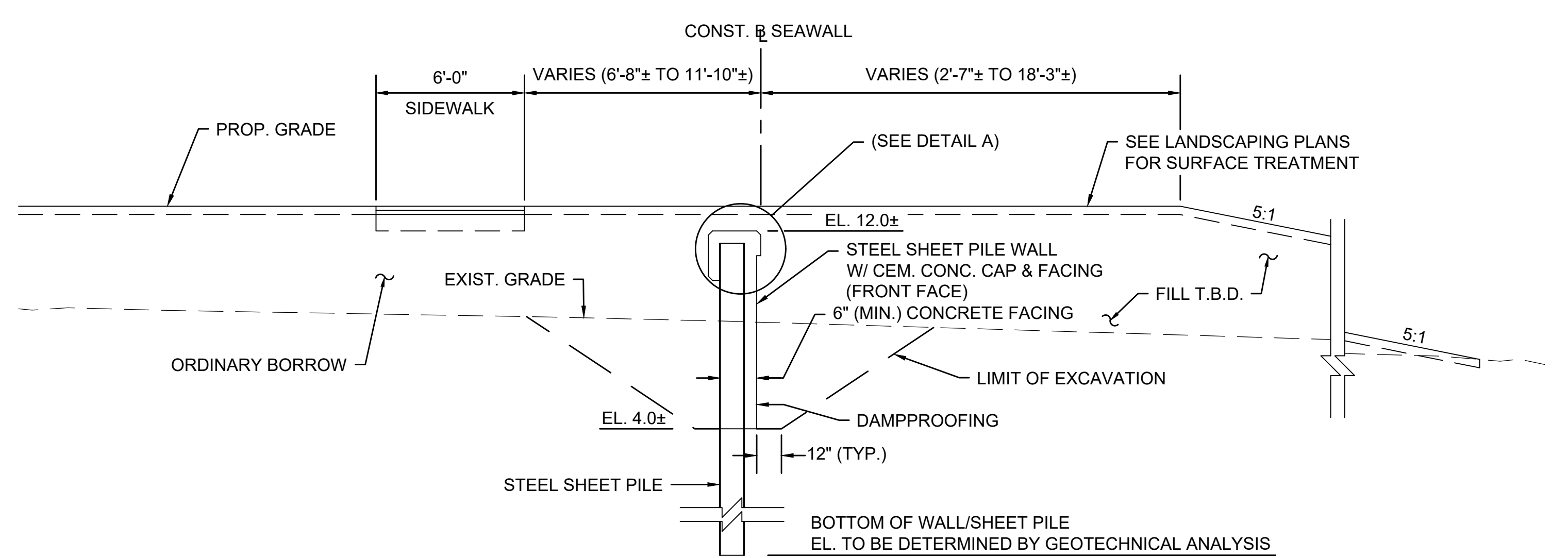
DETAIL B
SCALE: 1'-0" = 1'-0"



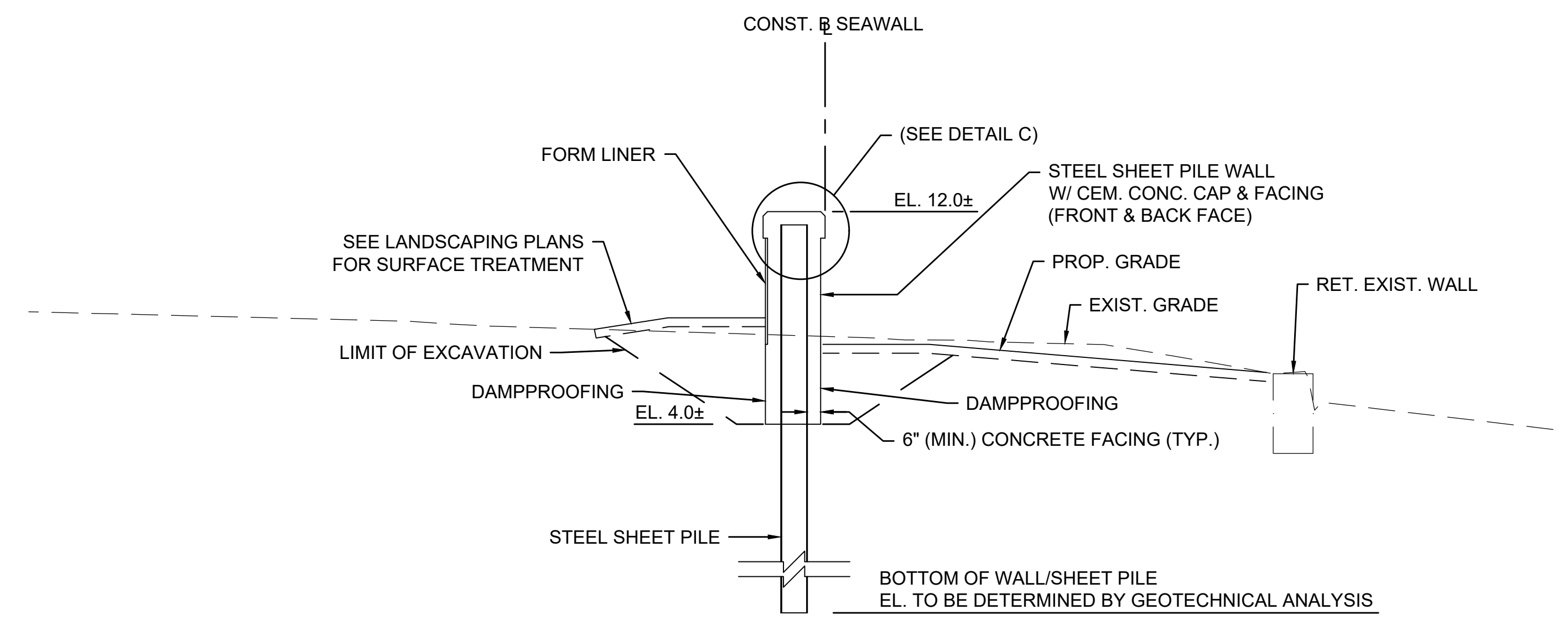
* BASED ON 12" SHEET PILE DEPTH.
DETAIL C
SCALE: 1'-0" = 1'-0"



SEAWALL SECTION 6 (SW6)
SCALE: 3" = 1'-0"



SEAWALL SECTION 5 (SW5)
SCALE: 3" = 1'-0"



WALL 2 SECTION
SCALE: 3" = 1'-0"

Schematic Design

Issued for Schematic Design
 Date Issued June 27, 2025
 Latest Issue June 27, 2025

Resilient Bennington Street and Fredericks Park

Beachmont VFW, Beachmont Veterans Memorial School, and Fredericks Park Improvements

Bennington Street
 Revere, MA



101 Walnut Street
 PO Box 9151
 Watertown, MA 02471
 617.924.1770

Geotechnical

Lahaf Geotechnical Consulting
 100 Chelmsford Road
 Suite 2
 Billerica, MA 01862
 (978)-330-5912

Survey

Brennan Consulting
 24 Ray Avenue
 Suite 203
 Burlington, MA 01803
 (781) -273-3434

Landscape Architecture

Terraink
 7 Central Street
 Suite 150
 Arlington, MA 02476
 (781)-316-1595

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No.	Drawing Title	Latest Issue
C1.01	Legend and General Notes	June 27, 2025
C2.01	Site Improvements Plan - Full Site Overview	June 27, 2025
C2.02	Site Improvements Plan - Parking Concept	June 27, 2025
C2.03	Site Improvements Plan - Fredericks Park Concept	June 27, 2025
C2.04	Site Improvements Plan - Eastern Tie-In Concept	June 27, 2025
C3.01	Site Details 1	June 27, 2025
C3.02	Site Details 2	June 27, 2025
C3.03	Site Details 3	June 27, 2025
C3.04	Site Details 4	June 27, 2025
L-1	Fredericks Park Landscape Design Concept 1	June 27, 2025
L-2	Fredericks Park Landscape Design Concept 2	June 27, 2025
L-3	Fredericks Park Landscape Design Concept 3	June 27, 2025
L-4	Fredericks Park Landscape Design Concept 4	June 27, 2025
L-5	Planting Plan 1	June 27, 2025
L-6	Planting Plan 2	June 27, 2025
L-7	Planting Plan 3	June 27, 2025
L-8	Planting Plan 4	June 27, 2025

Reference Drawings

No.	Drawing Title	Latest Issue
Sv-1	Existing Conditions Survey	April 7, 2025



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770

Legend

Table with columns: Exist., Prop., Description, Exist., Prop., Description. Includes items like PROPERTY LINE, CONCRETE, HEAVY DUTY PAVEMENT, BUILDINGS, RIPRAP, CONSTRUCTION EXIT, etc.

Abbreviations

Table with columns: General, Description. Includes items like ABAN ABANDON, ACR ACCESSIBLE CURB RAMP, ADJ ADJUST, APPROX APPROXIMATE, etc.

Notes

- 1. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
3. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

Layout and Materials

- 1. DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
2. CURB RADII ARE 3 FEET UNLESS OTHERWISE NOTED.
3. CURBING SHALL BE VERTICAL GRANITE CURBING WITHIN THE SITE UNLESS OTHERWISE INDICATED ON THE PLANS.

Demolition

- 1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MANMADE SURFACE FEATURES WITHIN THE LIMIT OF WORK INCLUDING BUILDINGS, STRUCTURES, PAVEMENTS, SLABS, CURBING, FENCES, UTILITY POLES, SIGNS, ETC. UNLESS INDICATED OTHERWISE ON THE DRAWINGS. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS.
2. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.

Erosion Control

- 1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

Existing Conditions Information

- 1. BASE PLAN: THE LINES SHOWN WERE DETERMINED BY AN ACTUAL FIELD SURVEY CONDUCTED BY BRENNAN CONSULTING AND FROM PLANS OF RECORD, THE TOPOGRAPHY AND PHYSICAL FEATURES ARE BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BY BRENNAN CONSULTING, DURING MARCH 2024.
A. DELINEATION OF THE WETLANDS AND PLACEMENT OF THE FLAGS WAS PERFORMED BY: VHB
2. TOPOGRAPHY: ELEVATIONS ARE BASED ON NAVD83 DATUM.

Document Use

- 1. THESE PLANS AND CORRESPONDING CADD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE, AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED, WRITTEN CONSENT OF VHB. ANY UNAUTHORIZED USE, REUSE, MODIFICATION OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO VHB.
2. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS, BUT SHALL VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

Bennington Street Resiliency Improvements

101 Walnut Street
Watertown, MA

Table with columns: No., Revision, Date, Appr. Includes rows for design revisions.

Designed by AB Checked by MC
Issued for SCHEMATIC DESIGN Date June 27, 2025

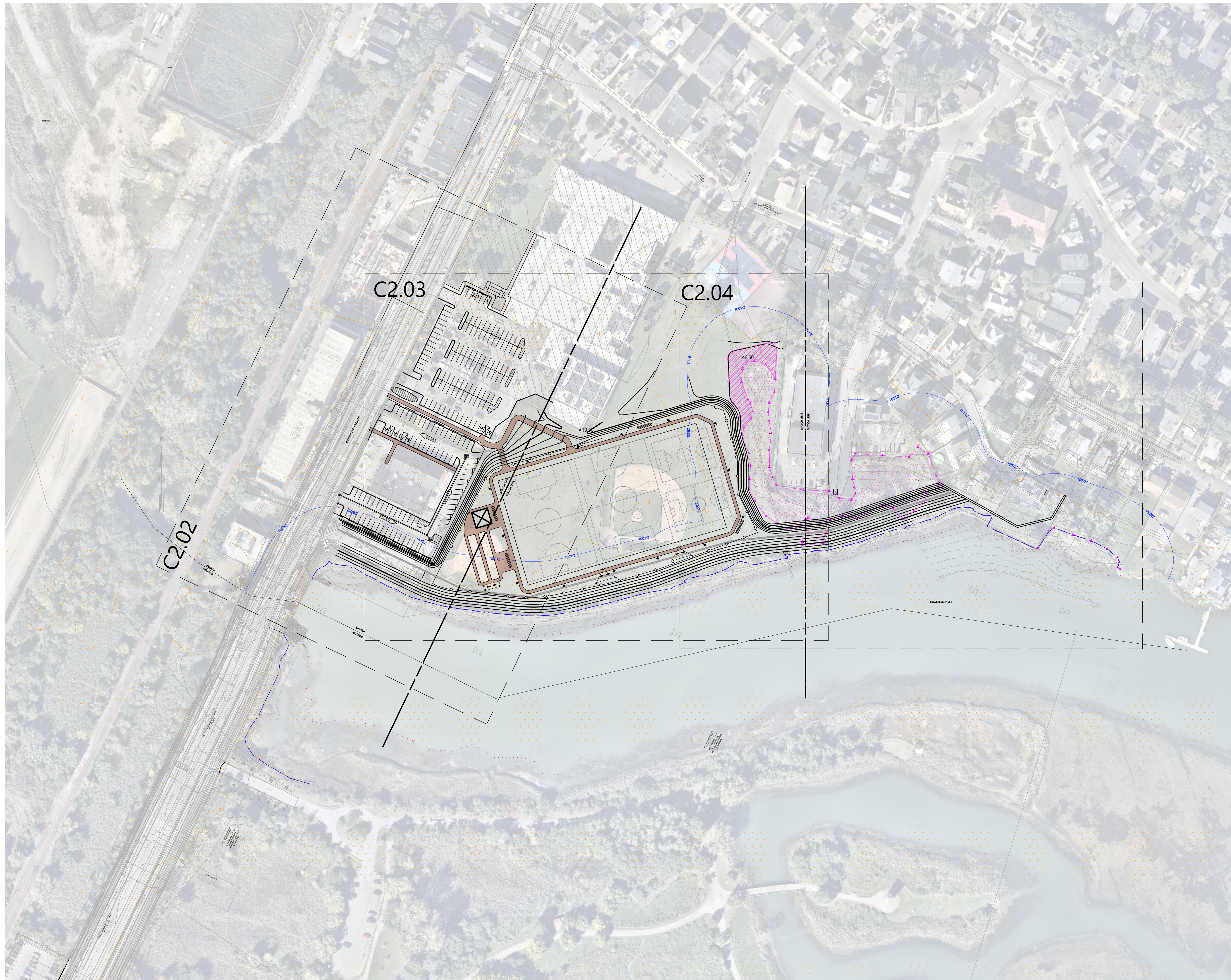
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Legend and General Notes








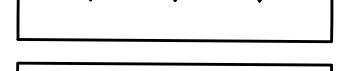
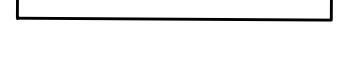


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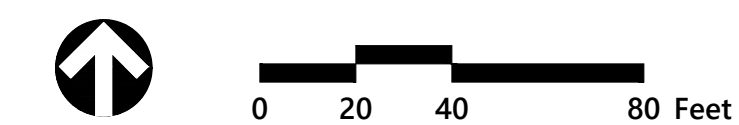
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LEGEND:

-  = WETLAND / SALT MARSH FLAG
-  = LAND SUBJECT TO COASTAL STORM FLOWAGE
-  = 100' LSCSF BUFFER ZONE
-  = 100' BUFFER ZONE
-  = SALT MARSH
-  = APPROXIMATE SEAWARD EXTENT OF SALT MARSH
-  = BORDERING VEGETATED WETLAND (BVW)
-  = BORDERING VEGETATED WETLAND REPLICATION AREA
-  = PROPOSED SIDEWALK
-  = BURIED WALL
-  = EXPOSED SEA WALL



**Bennington Street
 Resiliency
 Improvements**

101 Walnut Street
 Watertown, MA

No.	Revision	Date	Appvd.

Designed by **AB** Checked by **MC**
 Issued for **SCHEMATIC DESIGN** Date **June 27, 2025**

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 Drawing Title
**Site Improvement Plans
 Full Site Overview**

Drawing Number
C2.01

Sheet **2** of **17**

Project Number
16234.00



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770

Parking Summary Chart

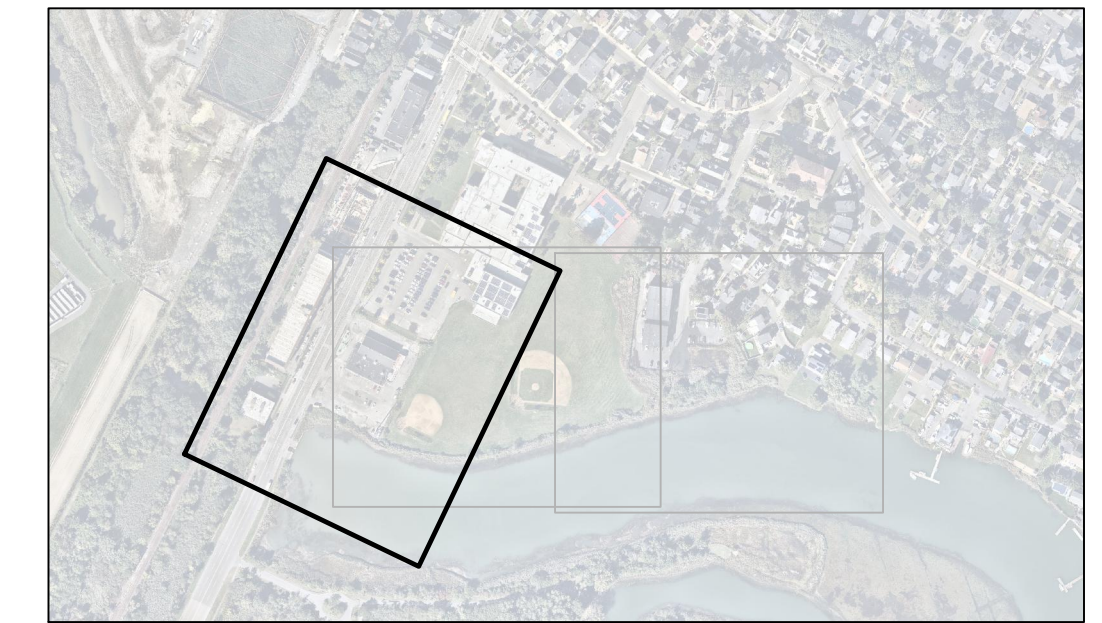
Description	Required		Spaces	
	Size	Provided	Existing	Provided
VFW LOT				
STANDARD SPACES	9 x 18	9 x 18	66	74
STANDARD NON-CONFORMING SPACES	9 x 18	9 x 13.3	10	14
STANDARD ACCESSIBLE SPACES *	8 x 18	9 x 18	7	4
TOTAL SPACES			73	78
BEACHMONT MEMORIAL SCHOOL LOT				
STANDARD SPACES	9 x 18	9 x 18	88	105
STANDARD ACCESSIBLE SPACES *	8 x 18	9 x 18	2	5
TOTAL SPACES			90	110

* ADA/STATE/LOCAL REQUIREMENTS

Parking Requirements:

GENERAL SERVICE	+/- 10,300 SF	x 1 SPACES / 200	= 52 SPACES
SCHOOL	+/- 122,500 SF	x 1.5 SPACES / 1,000	= 184 SPACES

KEY



SCALE: 1" = 500'

LEGEND:

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Bennington Street Resiliency Improvements

101 Walnut Street
Watertown, MA

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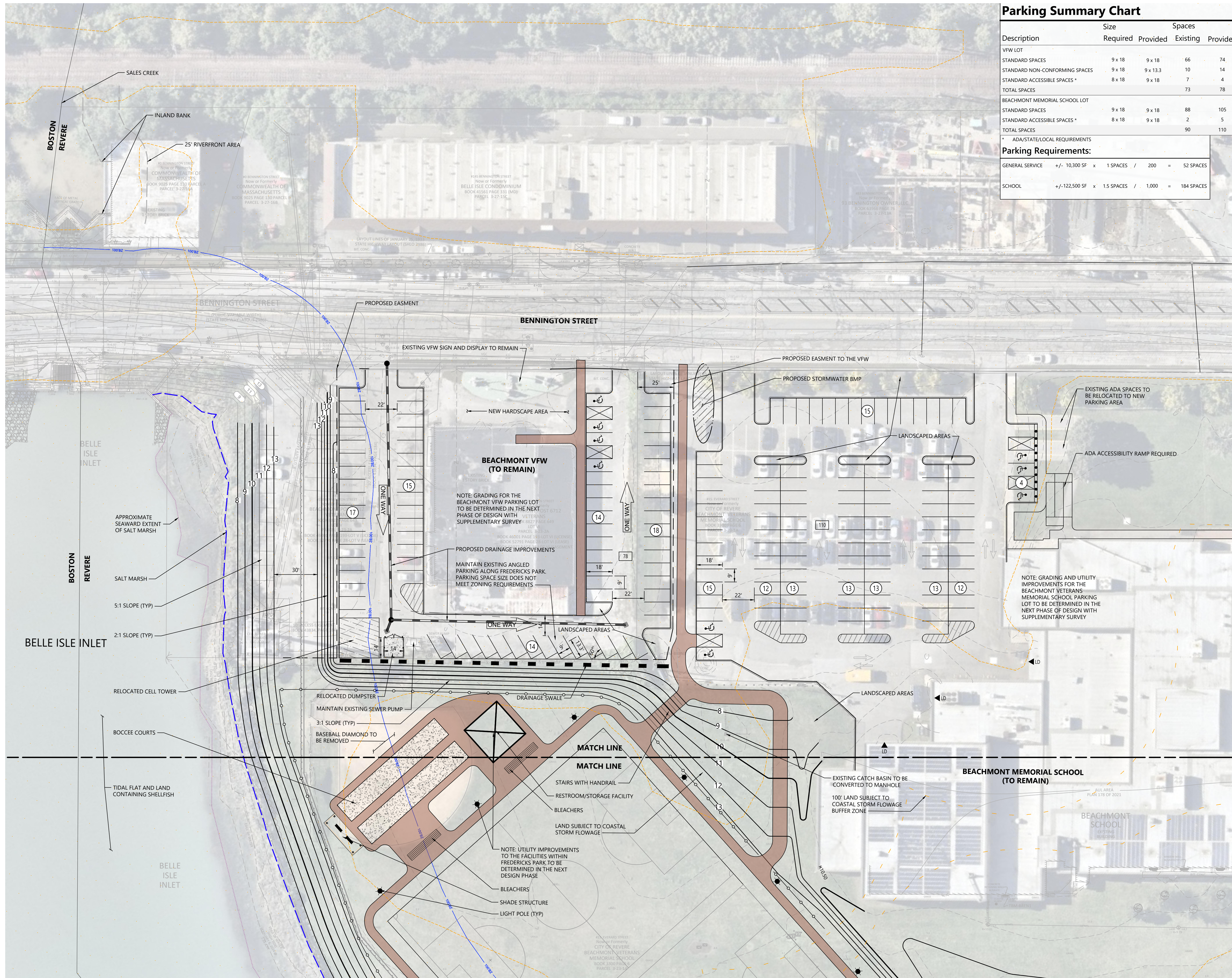
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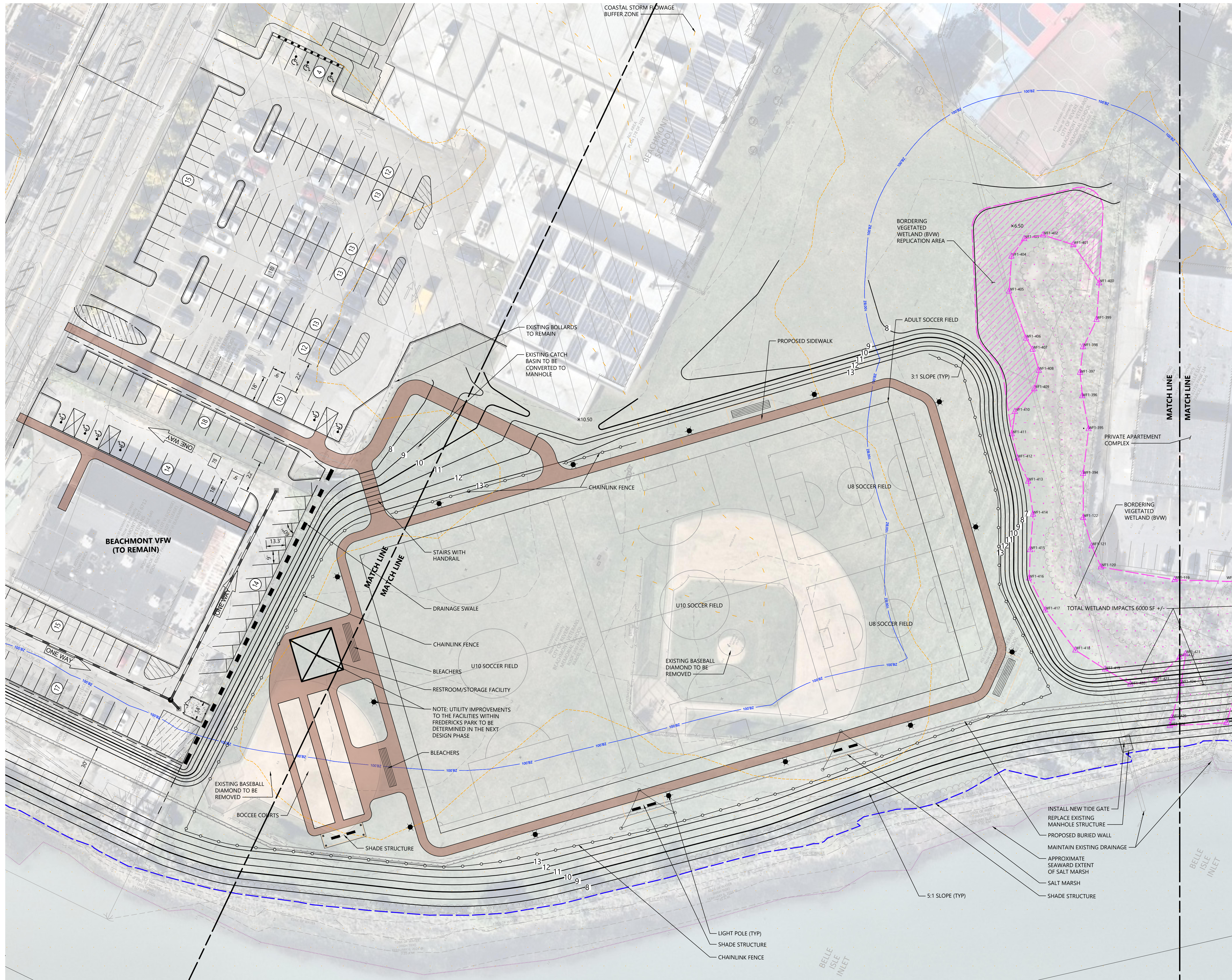
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C2.02

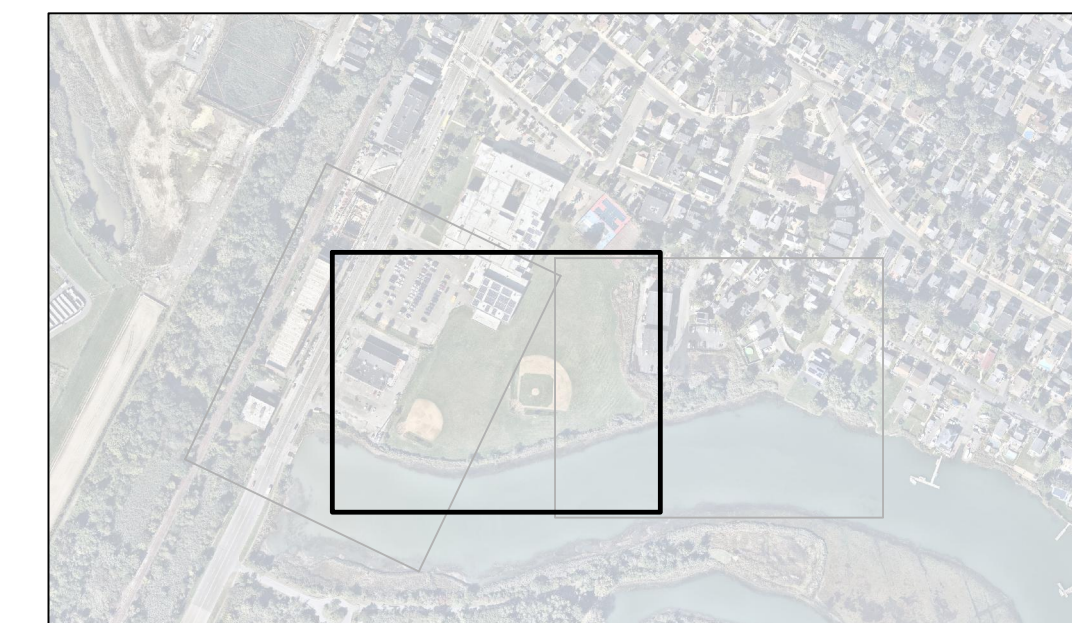
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Project Number
16234.00





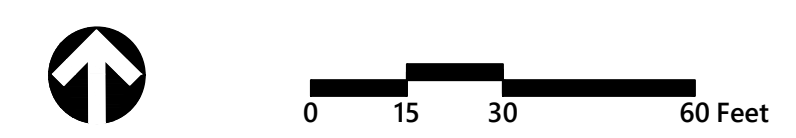
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LEGEND:

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Bennington Street Resiliency Improvements

101 Walnut Street
 Watertown, MA

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**Site Improvement Plans
 Fredericks Park Concept**

Drawing Number

C2.03

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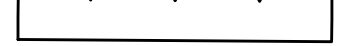


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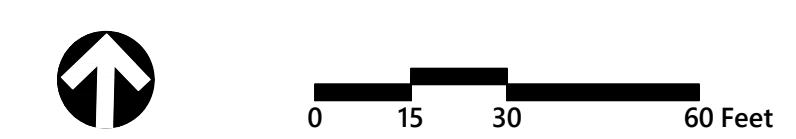
KEY



SCALE: 1" = 500'

LEGEND:

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Bennington Street Resiliency Improvements

101 Walnut Street
Watertown, MA

No.	Revision	Date	Apprd.

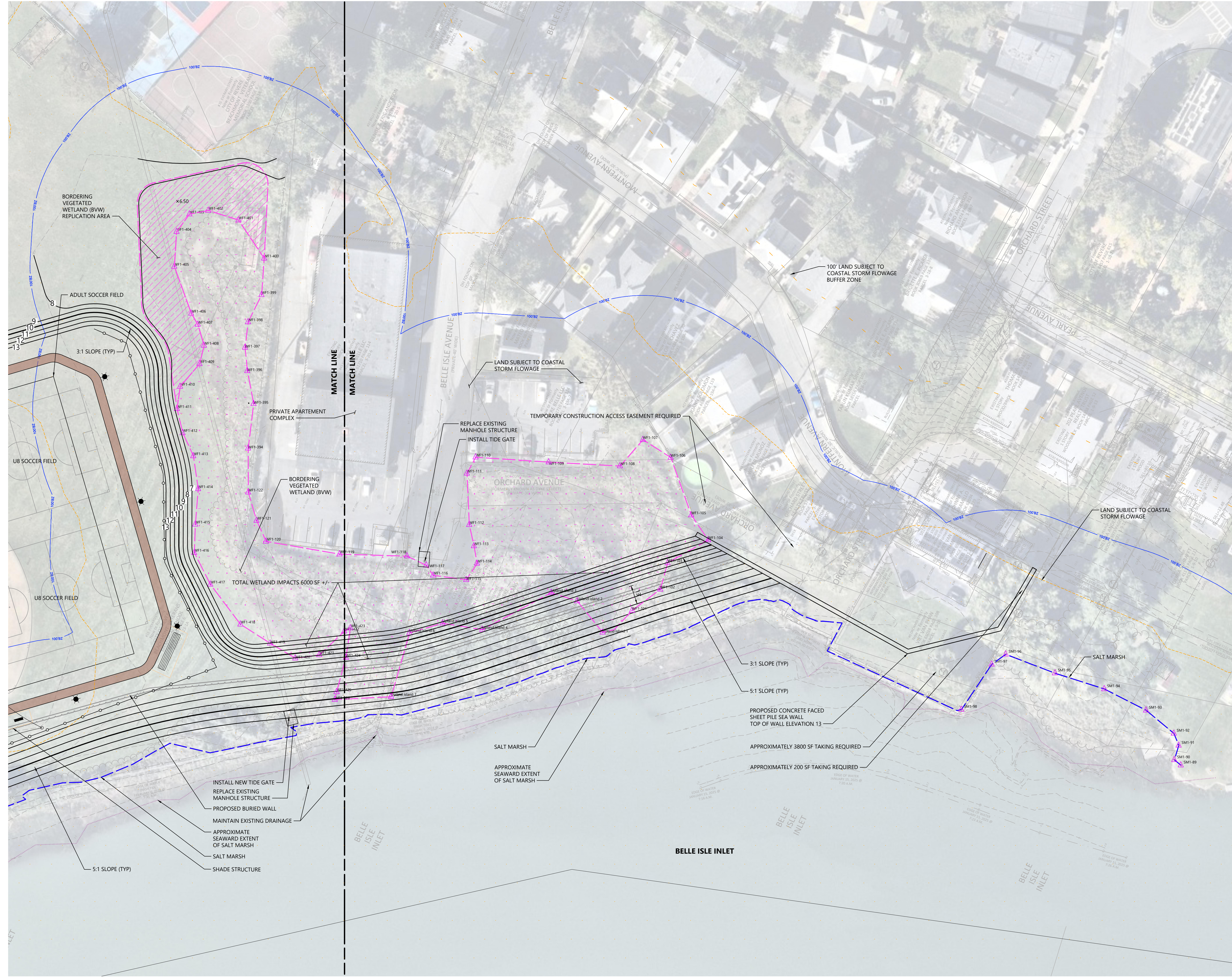
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SCHEMATIC DESIGN June 27, 2025

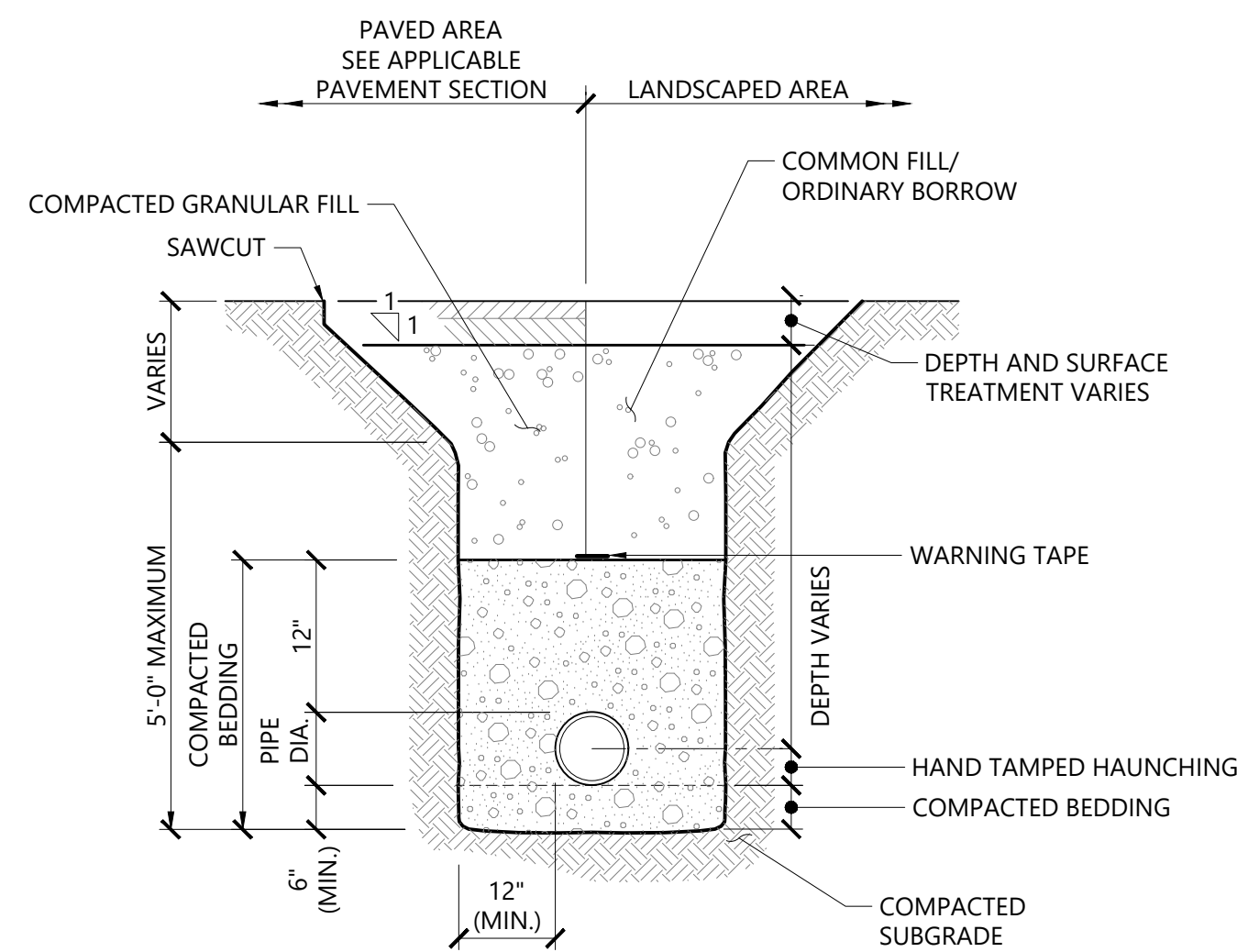
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Drawing Number

C2.04

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Project Number: 16234.00



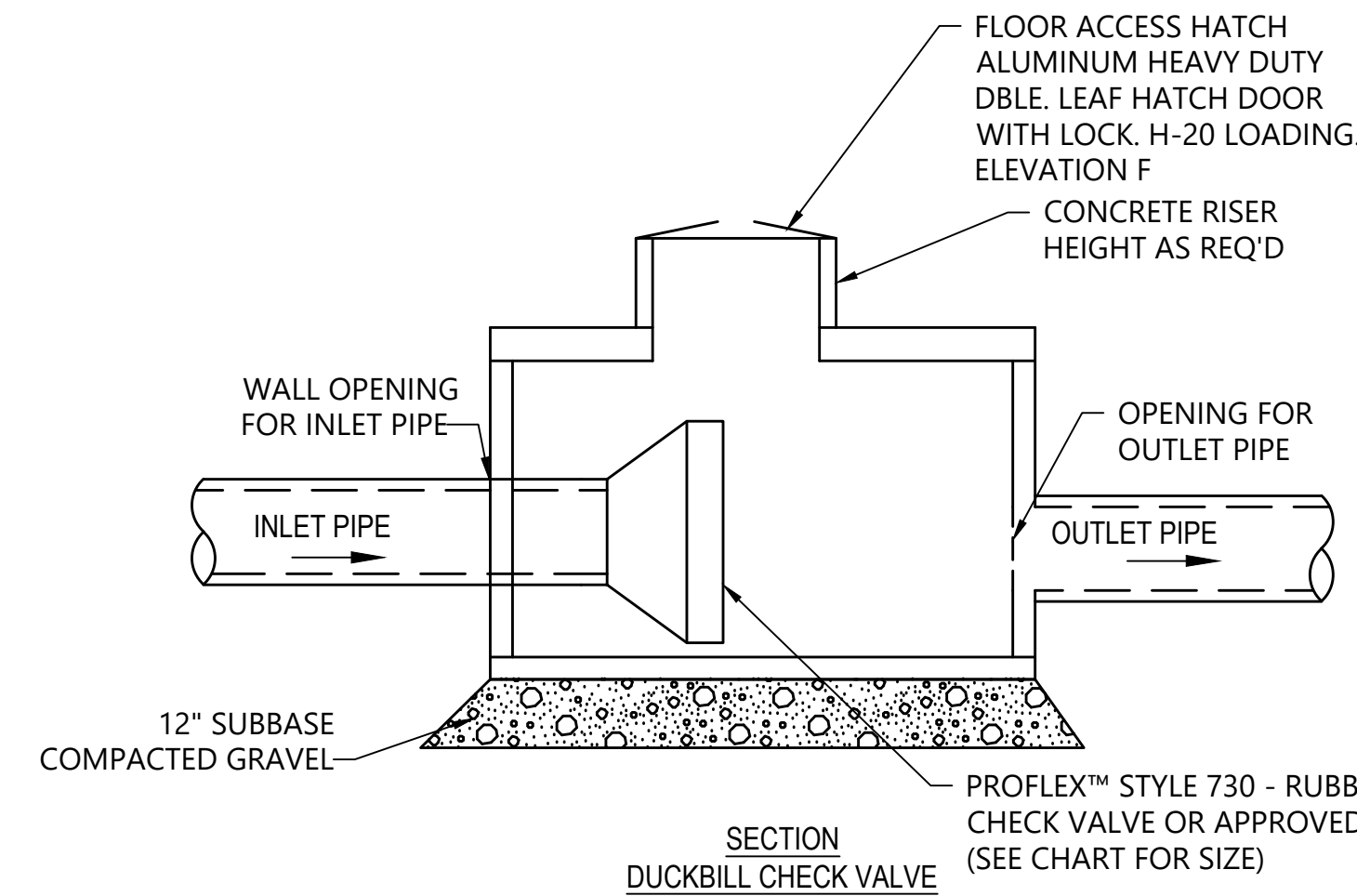
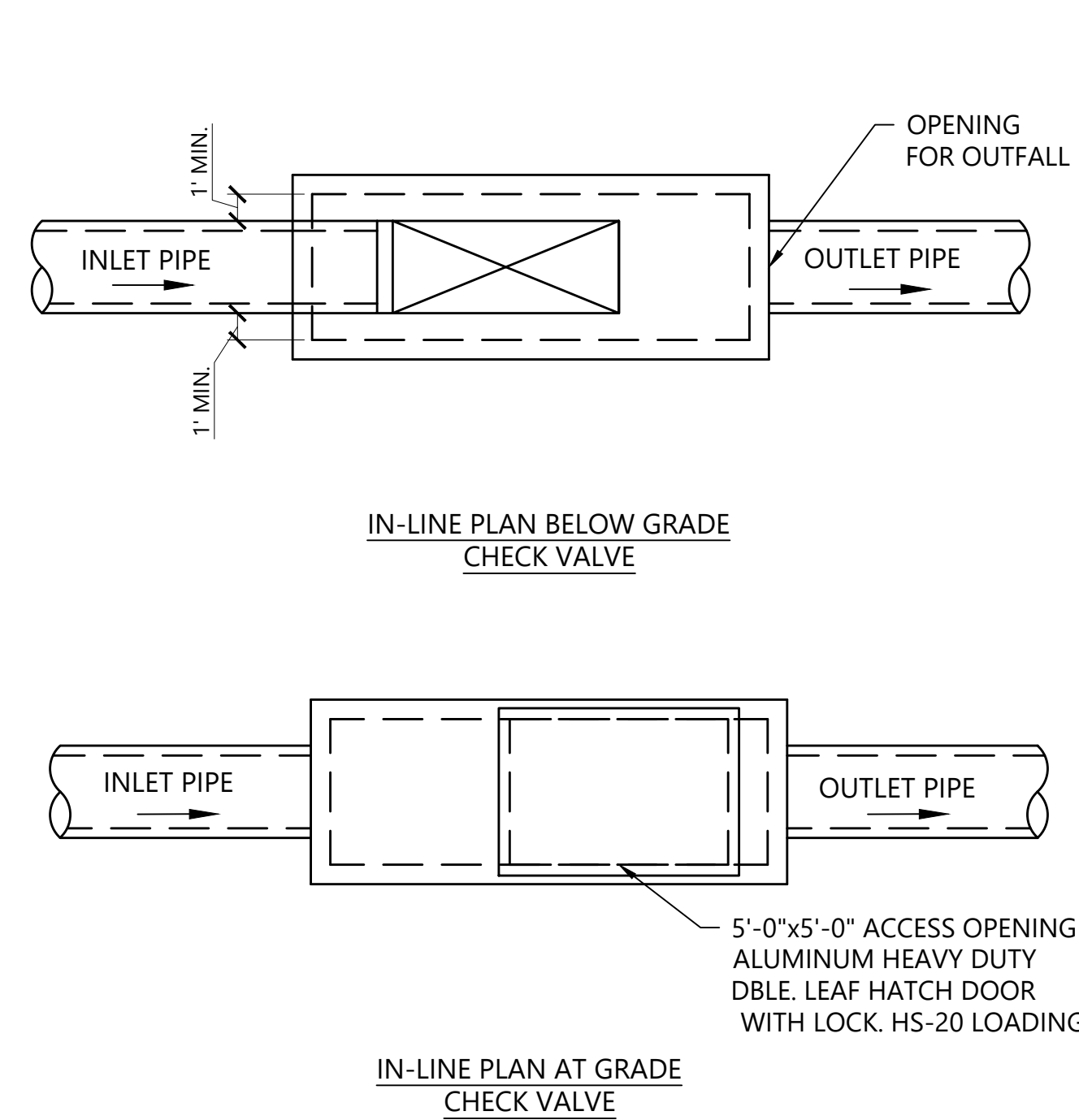


NOTES

- 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.
- USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
- COMPACTED GRANULAR FILL MAY CONSIST OF GRAVEL, CRUSHED STONE, SAND, OR OTHER MATERIAL AS APPROVED BY ENGINEER.

Utility Trench

N.T.S. Source: VHB 11/19 LD_300



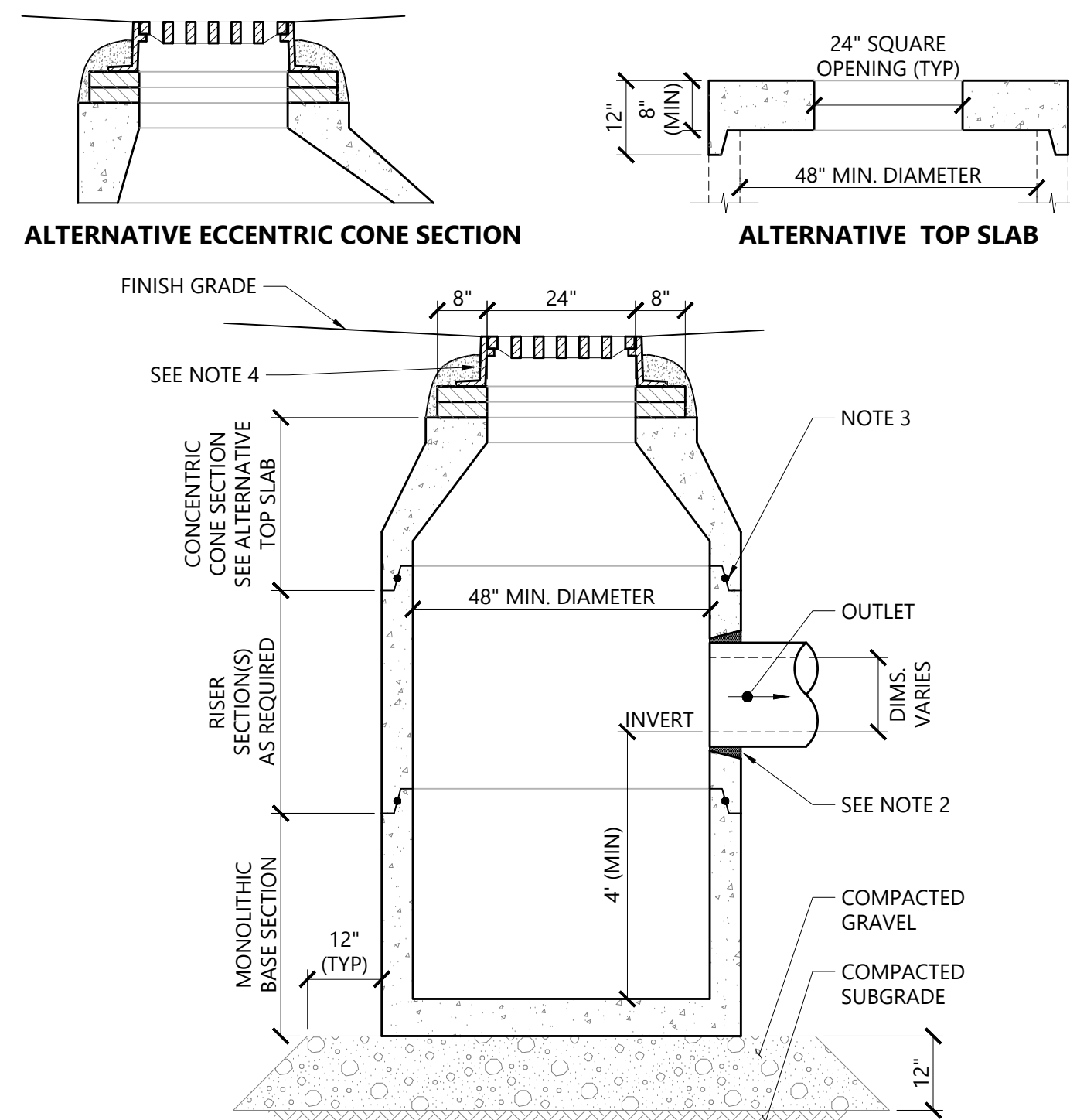
NOTE:

- INVERTS OF THE OUTFALL PIPES AT THE LOCATIONS OF CHAMBERS ARE ASSUMED BASED ON RECORD PLANS AND ARE TO BE CONFIRMED IN THE FIELD WITH ENGINEER.
- CONTRACTOR TO FIELD VERIFY EXISTING OUTFALL PIPE INVERT ELEVATIONS AND SIZES AT THE LOCATIONS OF THE PROPOSED CHAMBERS AND REPORT BACK TO ENGINEER PRIOR TO ORDERING STRUCTURES.
- CONTRACTOR TO LEAVE ADEQUATE PIPE LENGTH THROUGH STRUCTURE WALL TO INSTALL DUCKBILL TIDE GATE PER MANUFACTURERS RECOMMENDATION.] CHAMBER WALLS, TOP, AND BOTTOM SLAB ARE REQUIRED TO BE 8" THICK AT MINIMUM FOR BUOYANCY
-

NOTE: EXACT DIMENSIONS TO BE DETERMINED IN NEXT PHASE OF DESIGN

CONCRETE CHAMBER AND DUCKBILL TIDE GATE

N.T.S. SOURCE: VHB

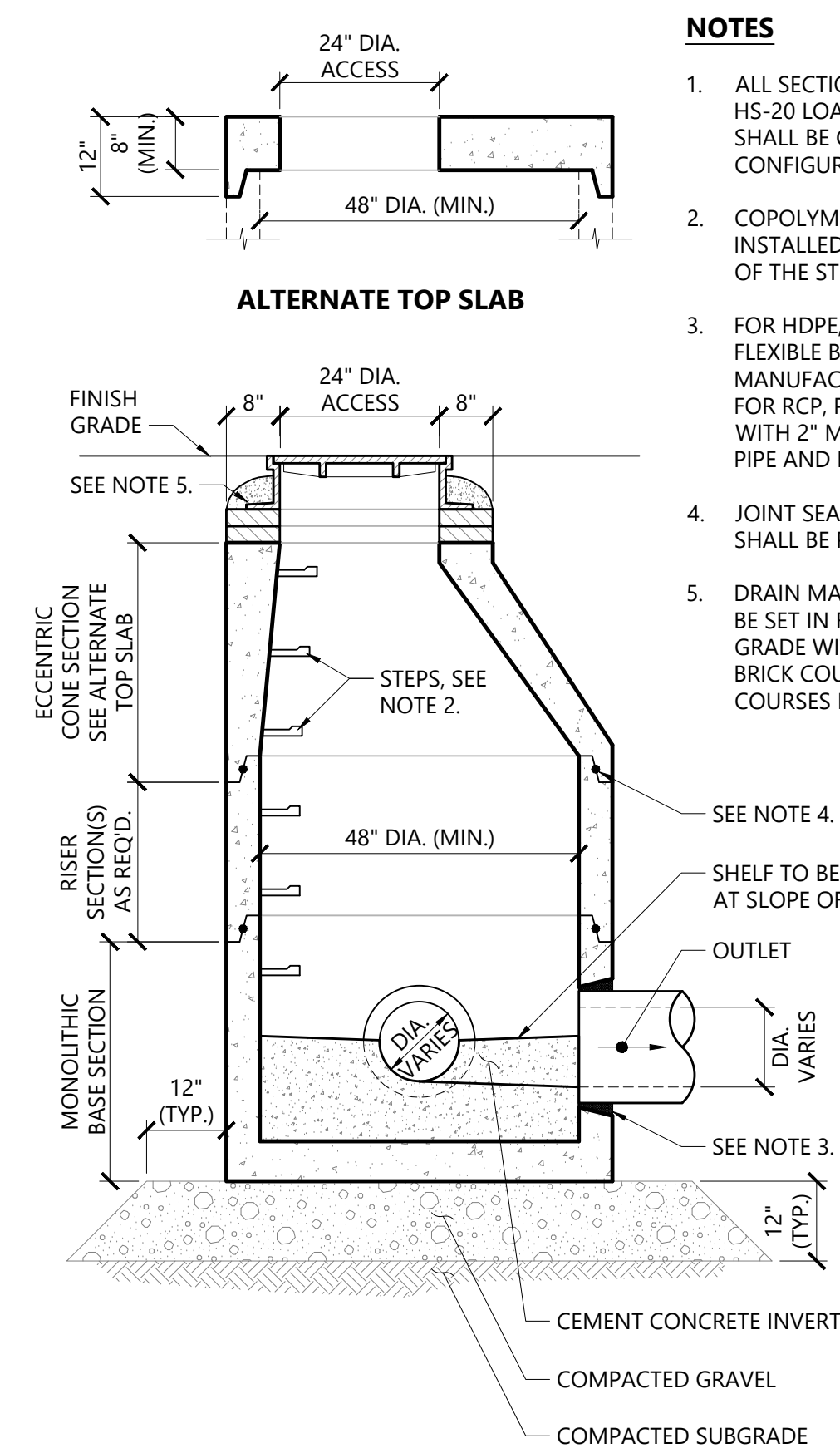


NOTES

- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
- FOR HDPE, PVC, AND DI PIPE, PROVIDE FLEXIBLE BOOT CONNECTION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. FOR RCP, PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE AND MORTAR CONNECTIONS.
- JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- 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)

N.T.S. Source: VHB 11/19 LD_200

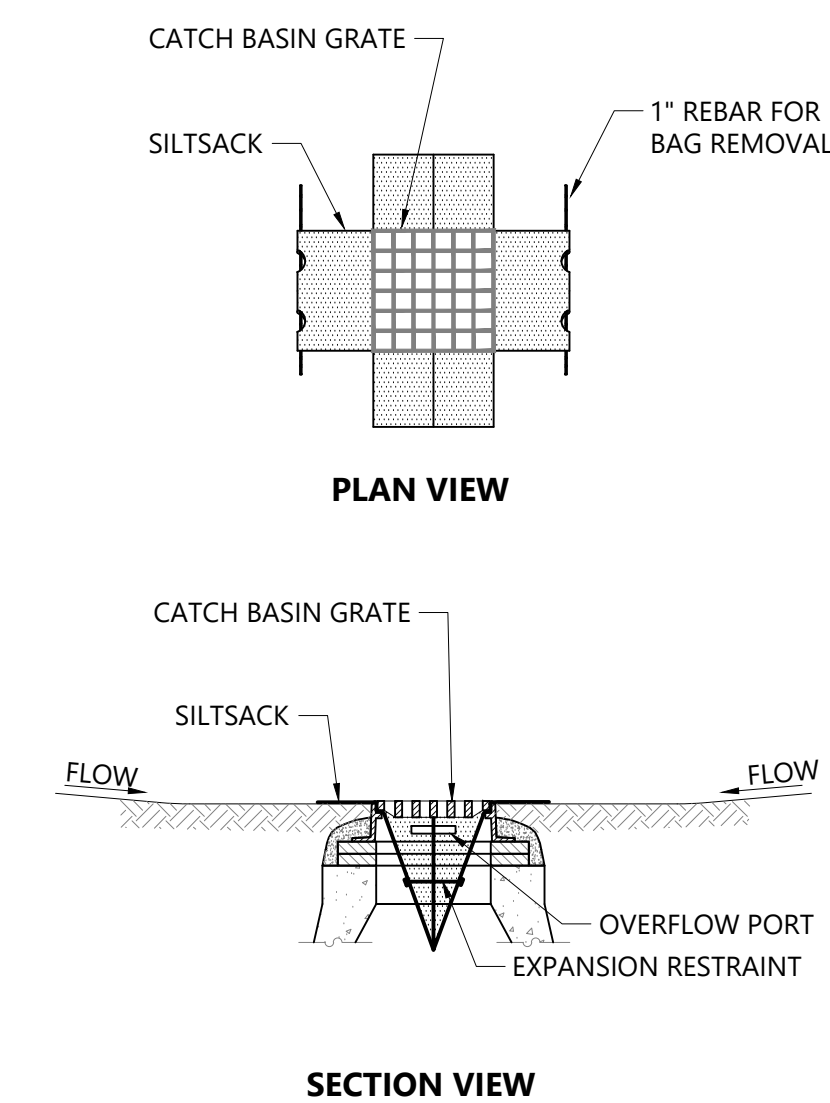


NOTES

- ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING. DIAMETER OF STRUCTURES SHALL BE COORDINATED WITH PIPE CONFIGURATIONS.
- COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
- FOR HDPE, PVC, AND DI PIPE, PROVIDE FLEXIBLE BOOT CONNECTION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. FOR RCP, PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE AND MORTAR CONNECTIONS.
- JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- 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)

N.T.S. SOURCE: VHB 11/19 LD_115



NOTES

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

Siltsack Sediment Trap

N.T.S. SOURCE: VHB 1/20 LD_674

Bennington Street Resiliency Improvements

101 Walnut Street
Watertown, MA

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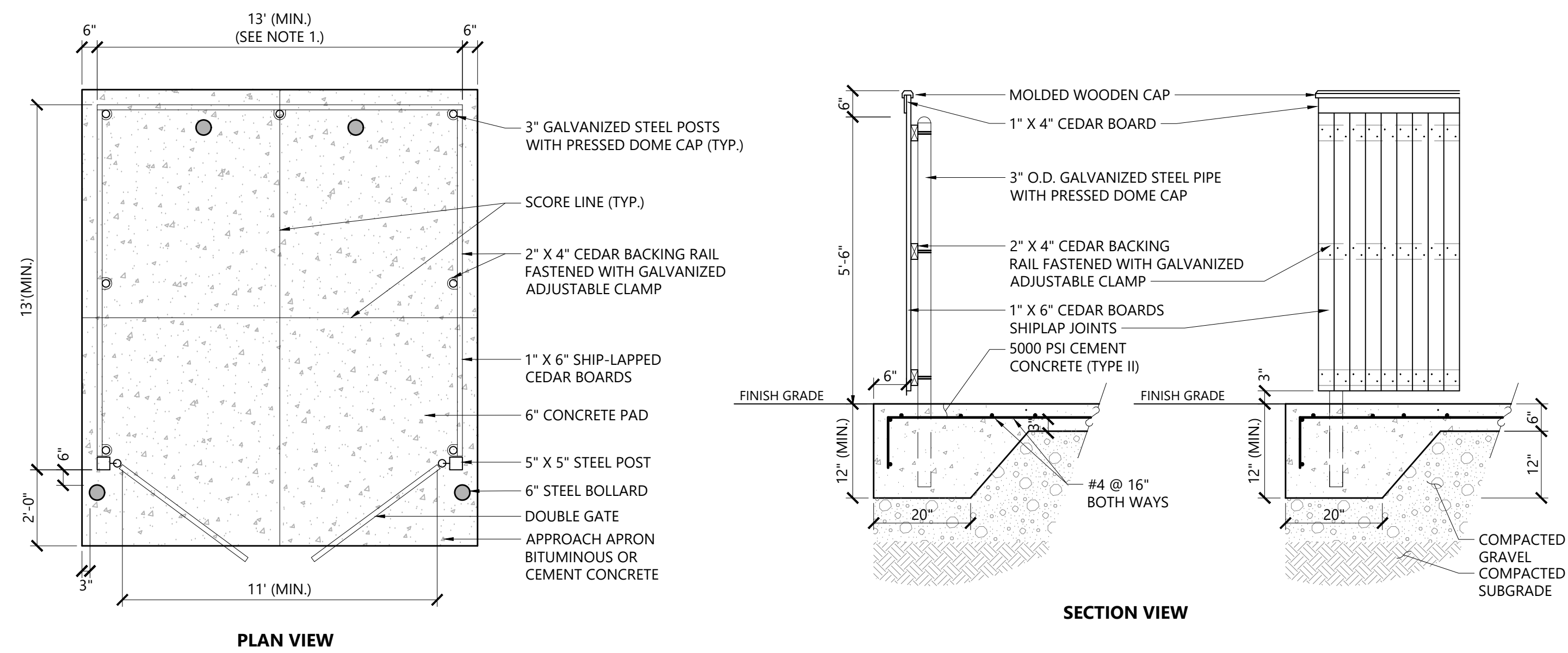
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Drawing Title
Site Improvement Plans Parking Concept

Drawing Number

C3.01

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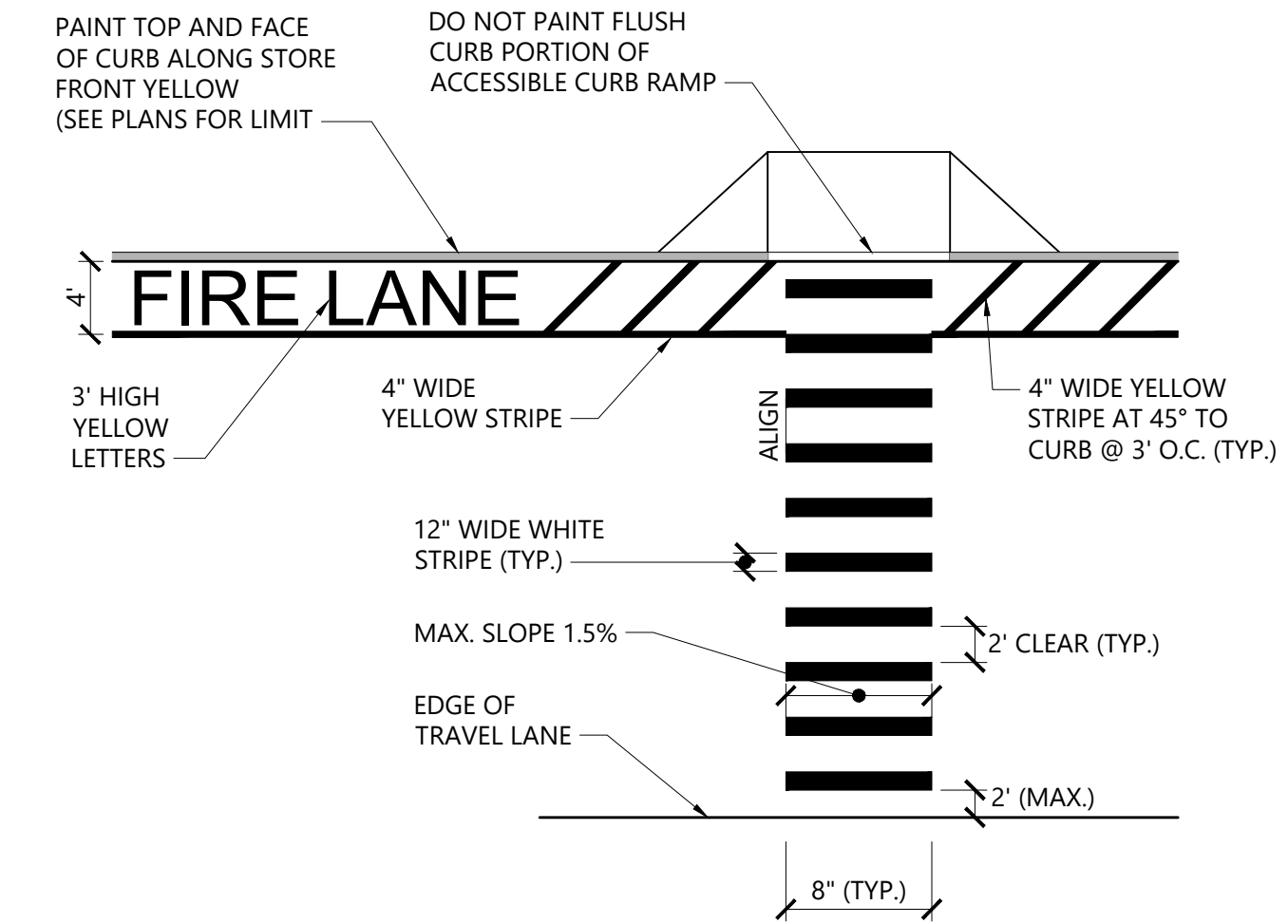
Project Number
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- NOTES**
1. DUMPSTER PAD DIMENSIONS SHOWN AS MINIMUM. REFER TO PLAN FOR ACTUAL DIMENSION.
 2. PAD DESIGNED FOR 6 YARD DUMPSTER.

Dumpster Pad w/ Enclosure

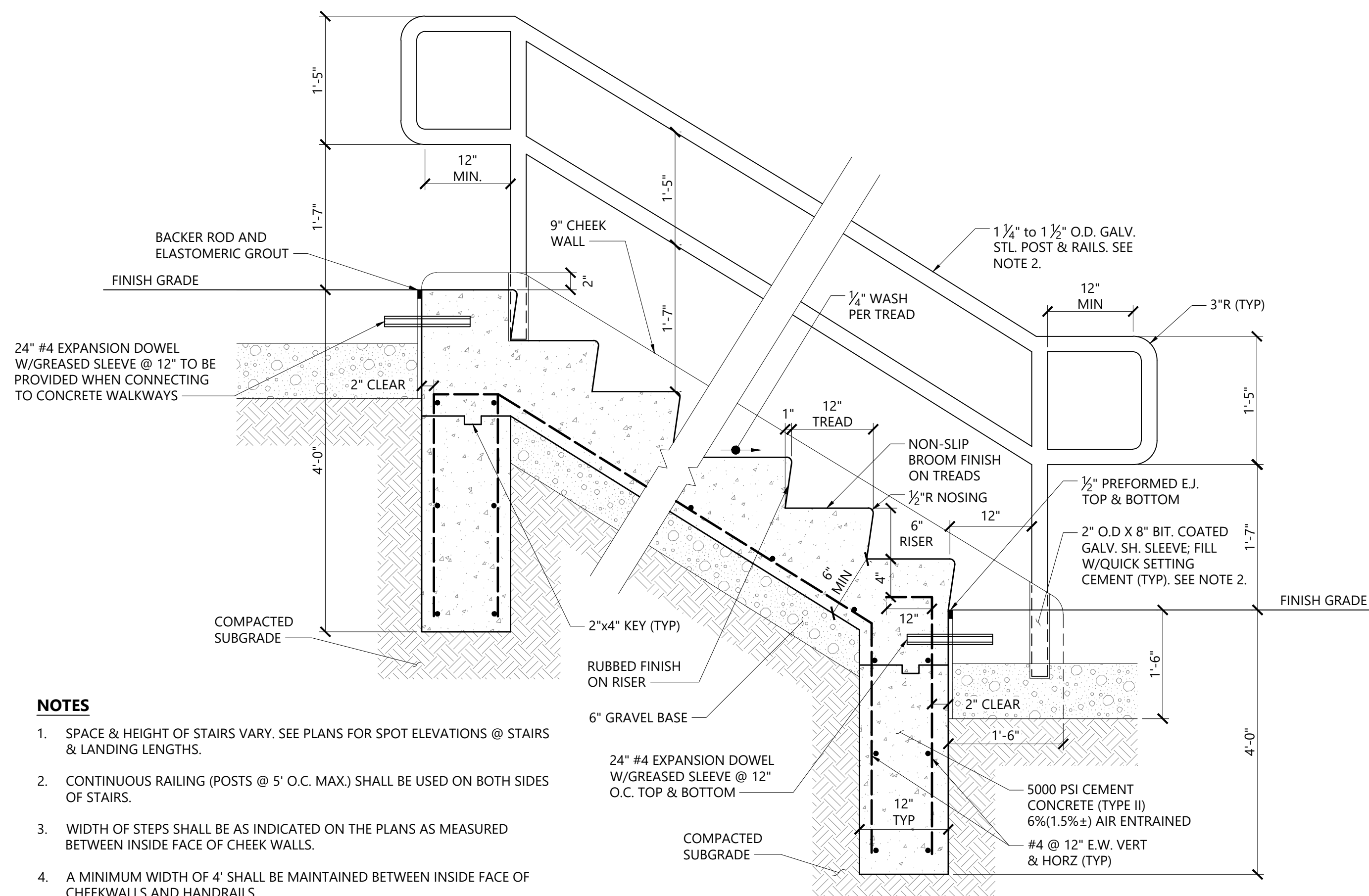
N.T.S. Source: VHB 1/20 LD_713



- NOTES**
1. TWELVE INCH (12") LINES SHALL BE APPLIED IN ONE APPLICATION. NO COMBINATION OF LINES (TWO - 6 INCH LINES) WILL BE ACCEPTED.
 2. LONGITUDINAL CROSSWALK LINES TO BE PARALLEL TO CURBLINE.
 3. LONGITUDINAL CROSSWALK LINES TO BE THE SAME LENGTH AND PROPERLY ALIGNED.
 4. CROSS WALK SIDESLOPE SHALL NOT EXCEED 1.5%.
 5. THE WORDS "NO PARKING FIRE LANE" SHALL BE PAINTED ON THE PAVEMENT IN 3" HIGH LETTERS IN 3 LOCATIONS ALONG THE FRONT DRIVE AISLE ADJACENT TO THE FRONT SIDEWALK (SPACED 150' O.C.).
 6. STRIPED PEDESTRIAN CROSSWALKS SHALL BE LOCATED AT THE FRONT DRIVE AISLE FROM THE FRONT SIDEWALK TO THE ACCESSIBLE PARKING SPACES.

Crosswalk and Fire Lane Striping

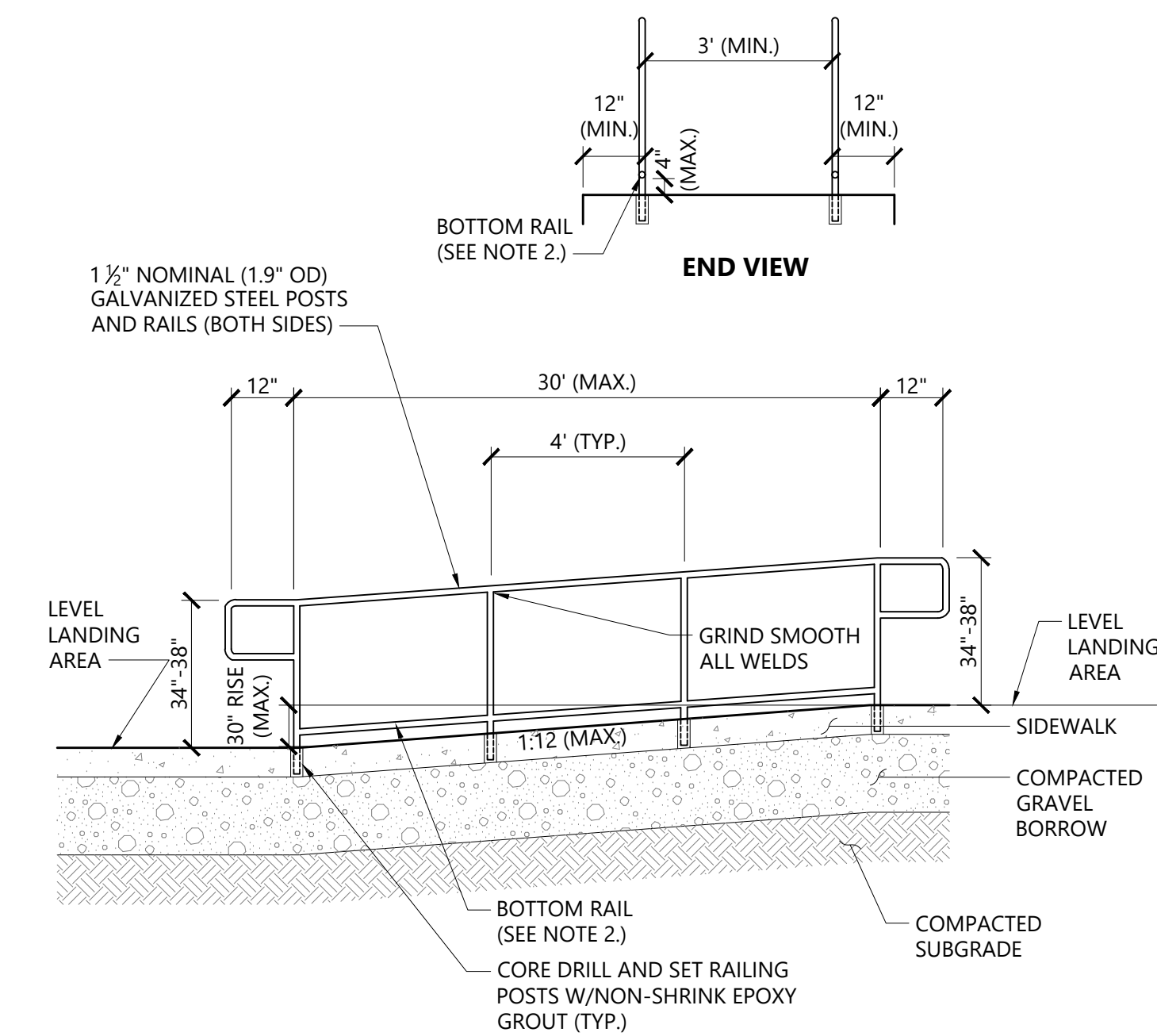
N.T.S. Source: VHB 12/19 LD_556A



- NOTES**
1. SPACE & HEIGHT OF STAIRS VARY. SEE PLANS FOR SPOT ELEVATIONS @ STAIRS & LANDING LENGTHS.
 2. CONTINUOUS RAILING (POSTS @ 5' O.C. MAX.) SHALL BE USED ON BOTH SIDES OF STAIRS.
 3. WIDTH OF STEPS SHALL BE AS INDICATED ON THE PLANS AS MEASURED BETWEEN INSIDE FACE OF CHEEK WALLS.
 4. A MINIMUM WIDTH OF 4' SHALL BE MAINTAINED BETWEEN INSIDE FACE OF CHEEKWALLS AND HANDRAILS.

Concrete Steps with Handrail

N.T.S. Source: VHB 11/15 LD_765



- NOTES**
1. FOR ADDITIONAL INFORMATION ON RAMPS SEE SECTION 405 RAMPS OF THE DEPARTMENT OF JUSTICE 2010 STANDARDS.
 2. EDGE PROTECTION TO BE PROVIDED BY EXTENDING THE RAMP SURFACE 12 INCHES BEYOND THE INSIDE FACE OF THE HANDRAIL OR PROVIDING A BOTTOM RAIL WITH THE BOTTOM OF THE RAIL TO BE NO HIGHER THAN 4 INCHES ABOVE THE RAMP SURFACE.
 3. REFER TO SIDEWALK DETAIL FOR SIDEWALK CONSTRUCTION.

Concrete Ramp with Handrails

N.T.S. Source: VHB 2/20 LD_764A

Bennington Street Resiliency Improvements

101 Walnut Street
Watertown, MA

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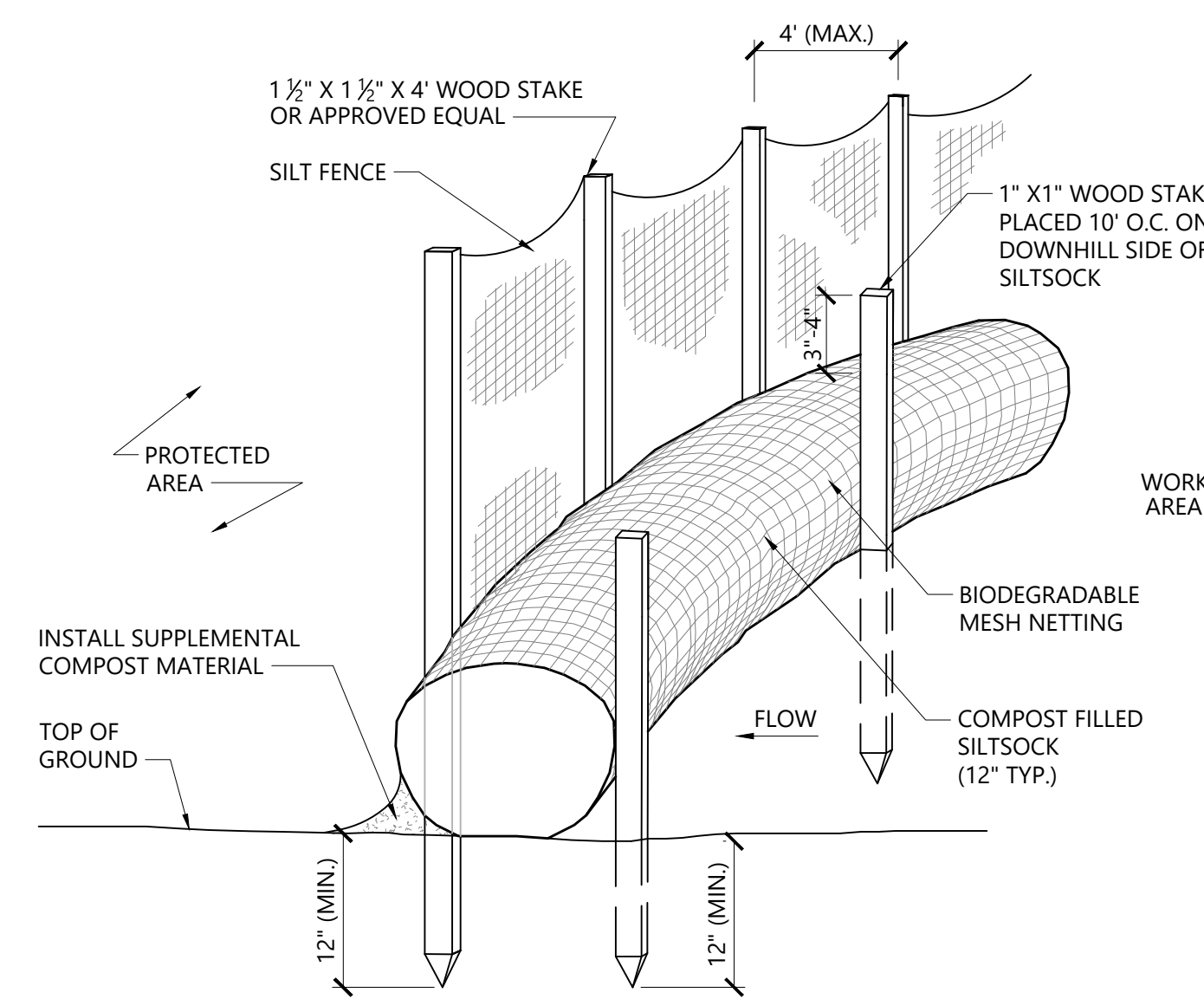
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Site Improvement Plans
Parking Concept

C3.02

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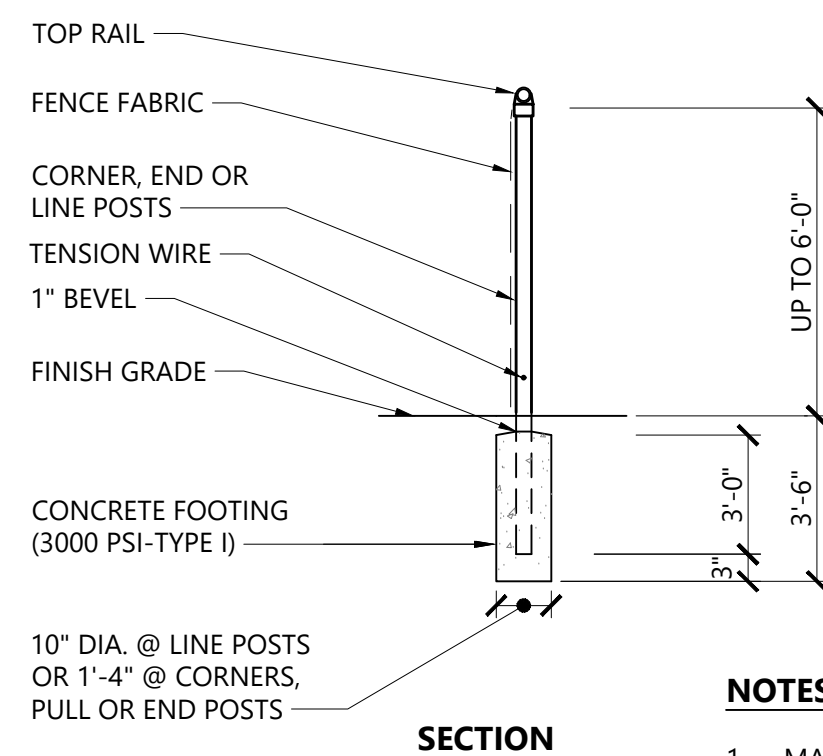
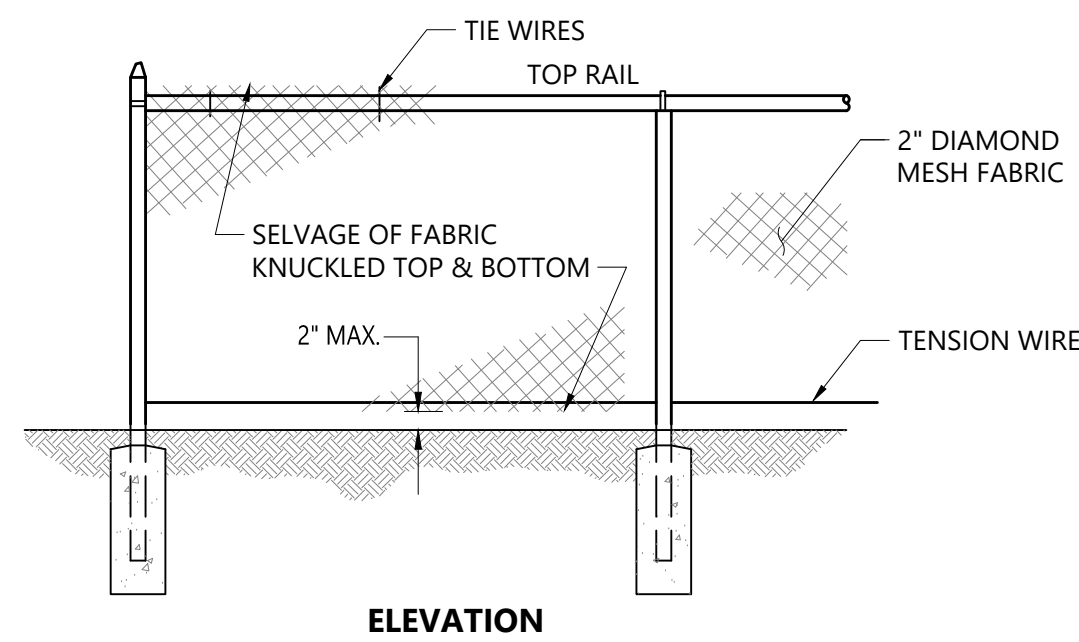


NOTES

1. SILT SOCK SHALL BE FILTREXX SILT SOCK, OR APPROVED EQUAL.
2. SILT SOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
4. UPON SITE STABILIZATION, 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.

Siltsock / Silt Fence Barrier

N.T.S. Source: VHB 10/20 LD_658-A

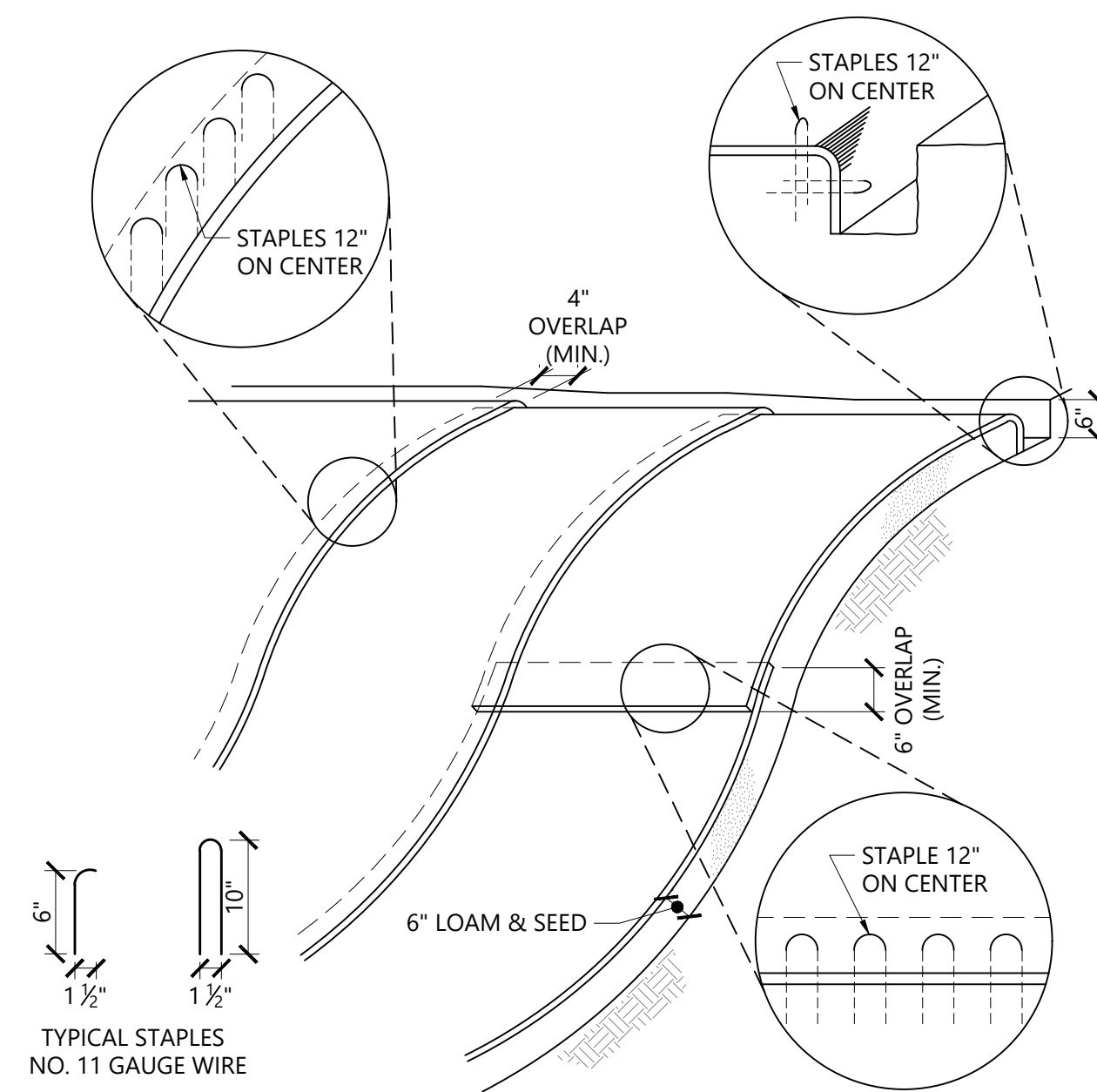


NOTES

1. MATERIALS TO BE SUPPLIED AND INSTALLED IN CONFORMANCE WITH "CHAIN LINK MANUFACTURER'S INSTITUTE" PRODUCT MANUAL.

Chain Link Fence up to 6'

N.T.S. Source: VHB 10/20 LD_481

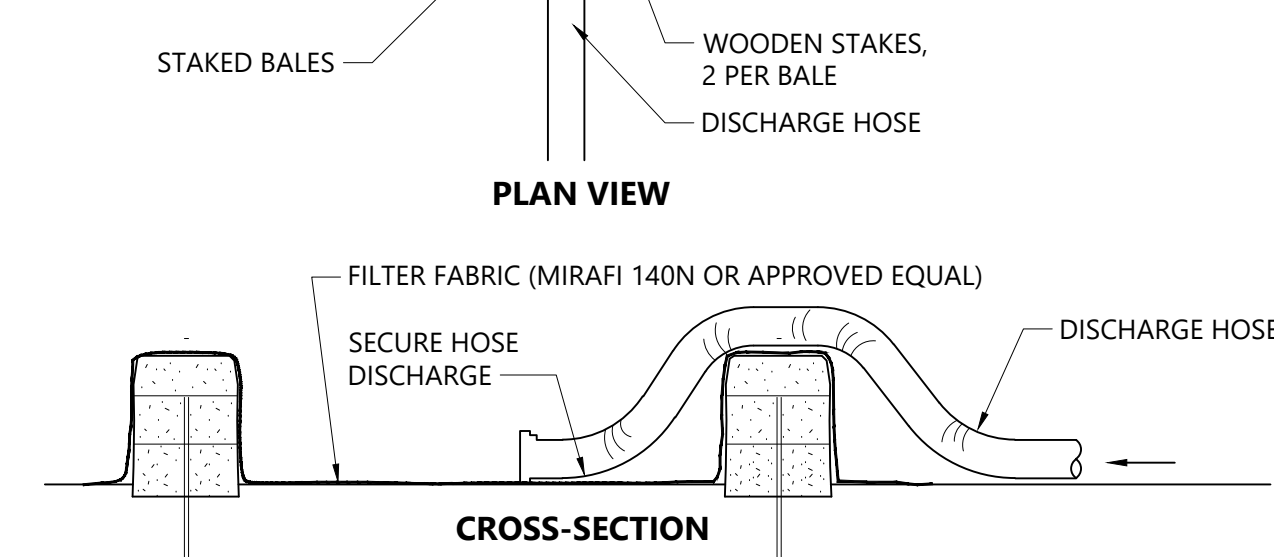
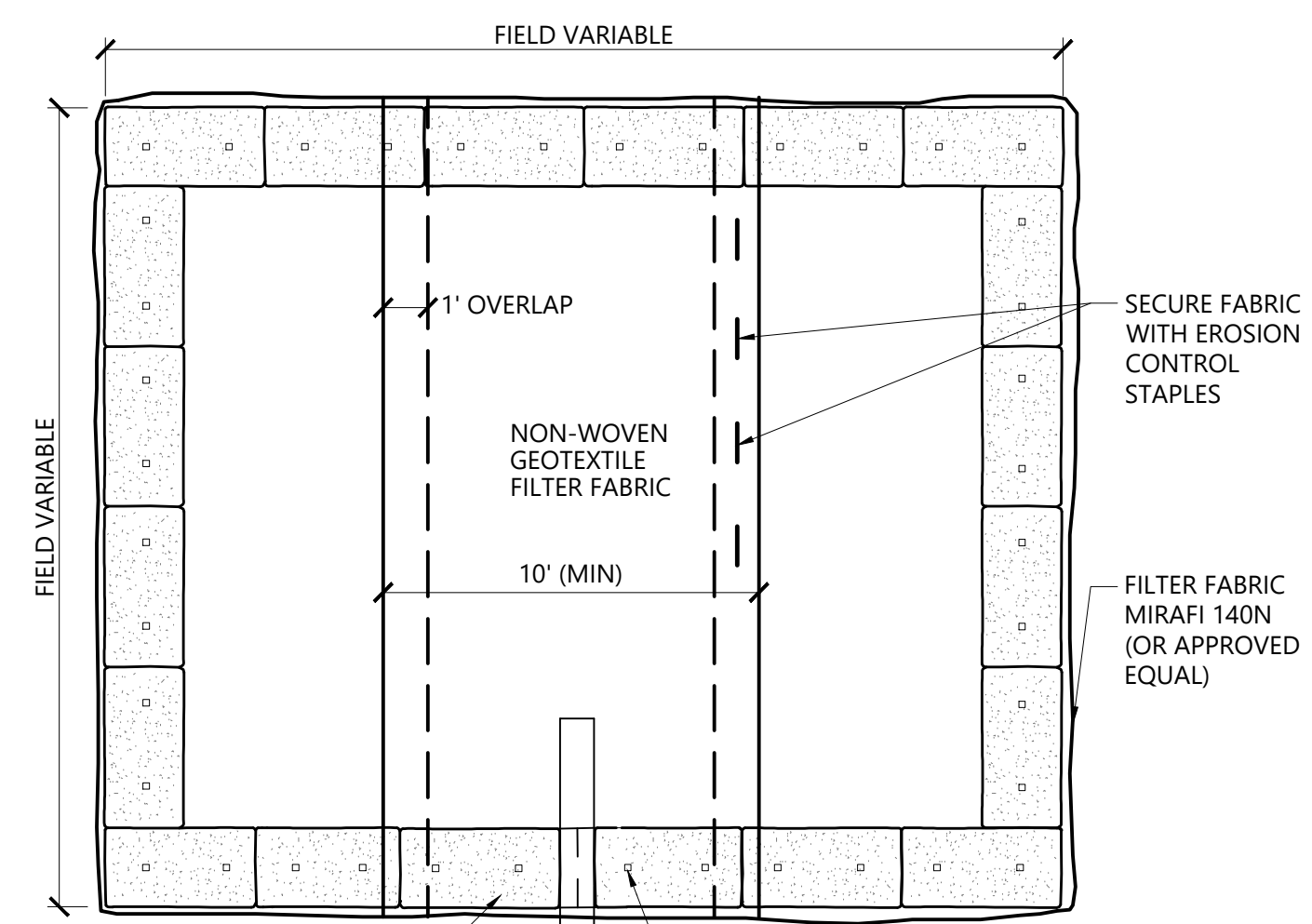


NOTES

1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN.) OVERLAP AND STAPLE BOTH TOGETHER.
5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3:1.

Erosion Control Blanket Slope Installation

N.T.S. Source: VHB 10/20 LD_680

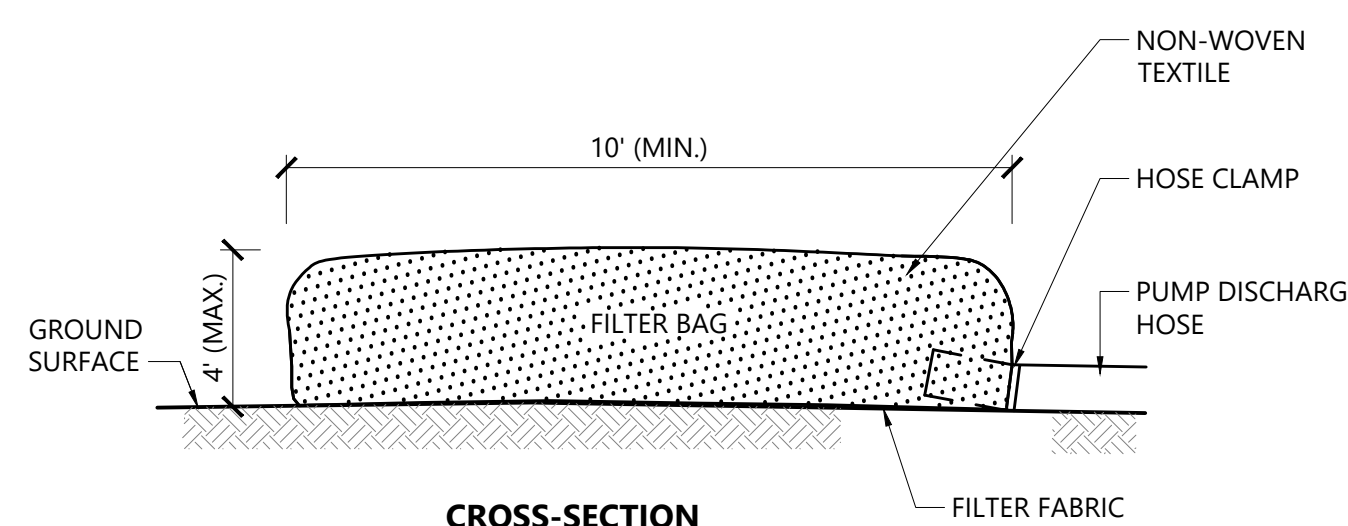
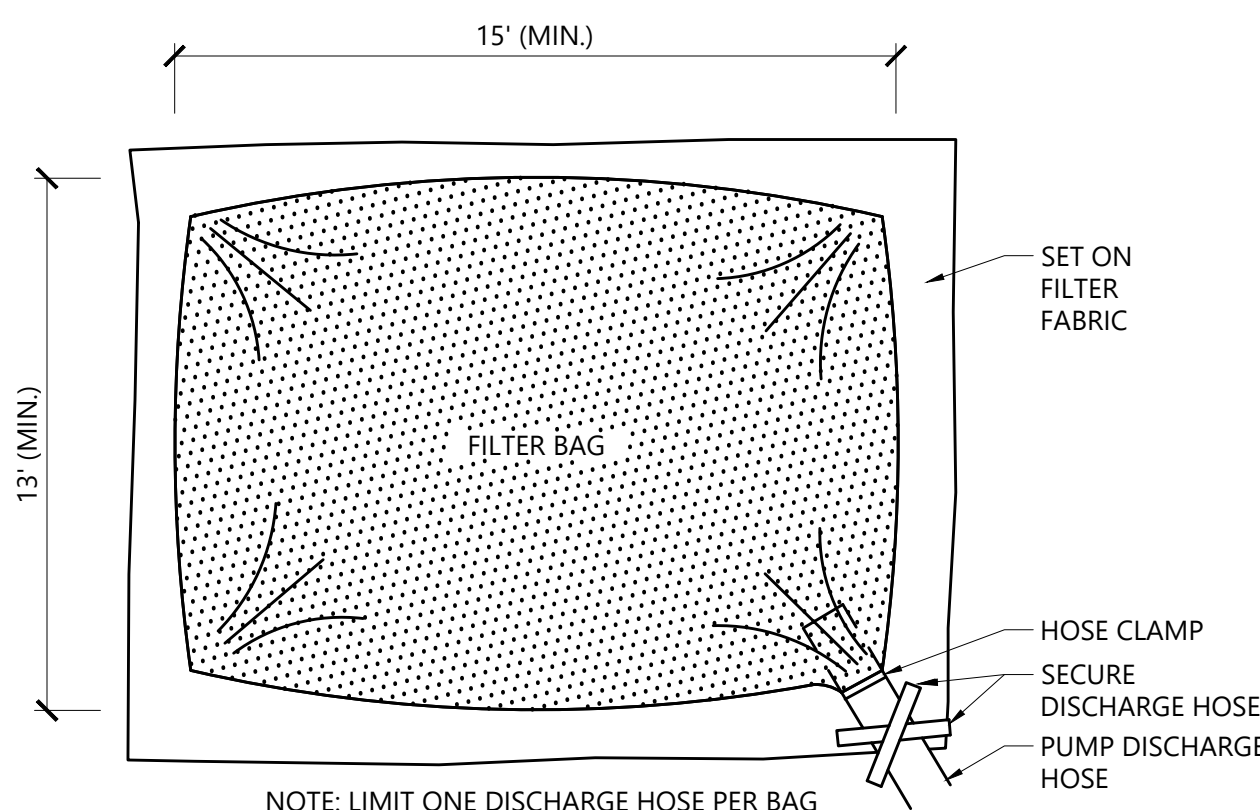


NOTES

1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
2. THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.

Dewatering Straw Bale Basin

N.T.S. Source: VHB 1/16 LD_690

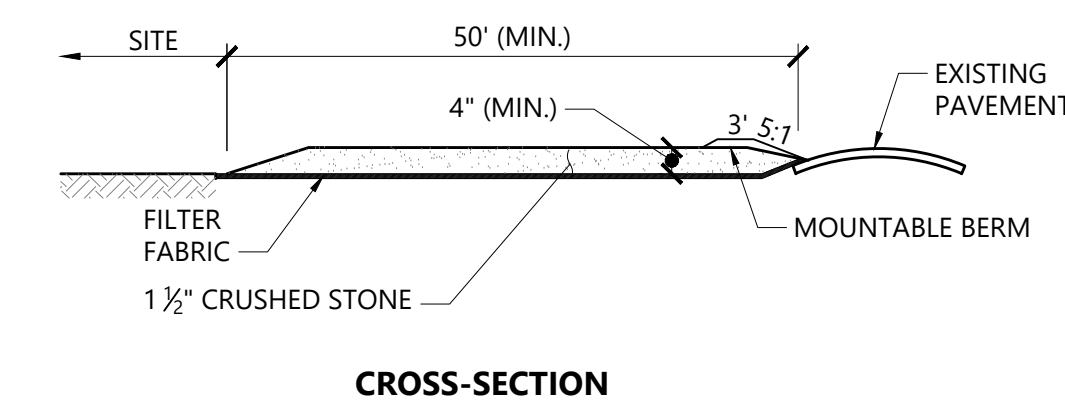
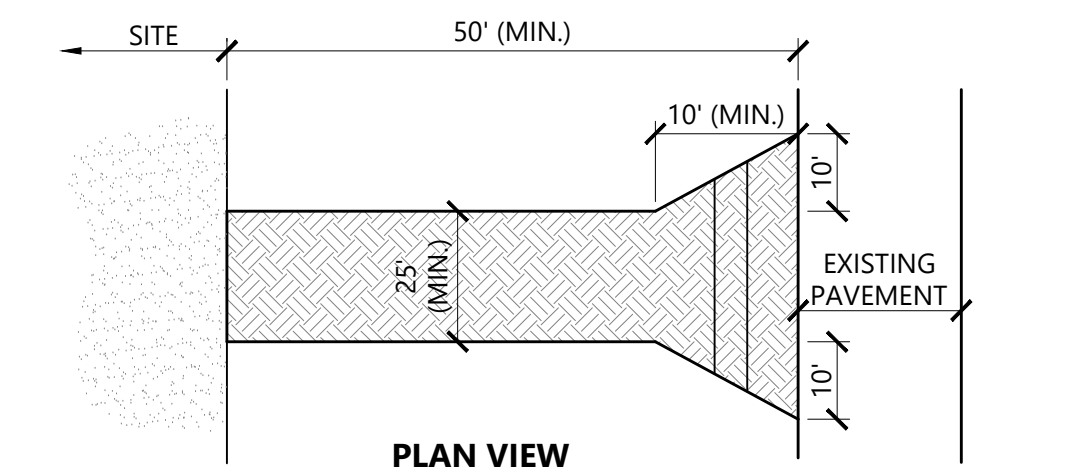


NOTES

1. BAG TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

Dewatering Filter Bag

N.T.S. Source: VHB 1/16 LD_691



NOTES

1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Construction Exit

N.T.S. Source: VHB 1/16 LD_682

Bennington Street Resiliency Improvements

101 Walnut Street
Watertown, MA

No.	Revision	Date	App'd

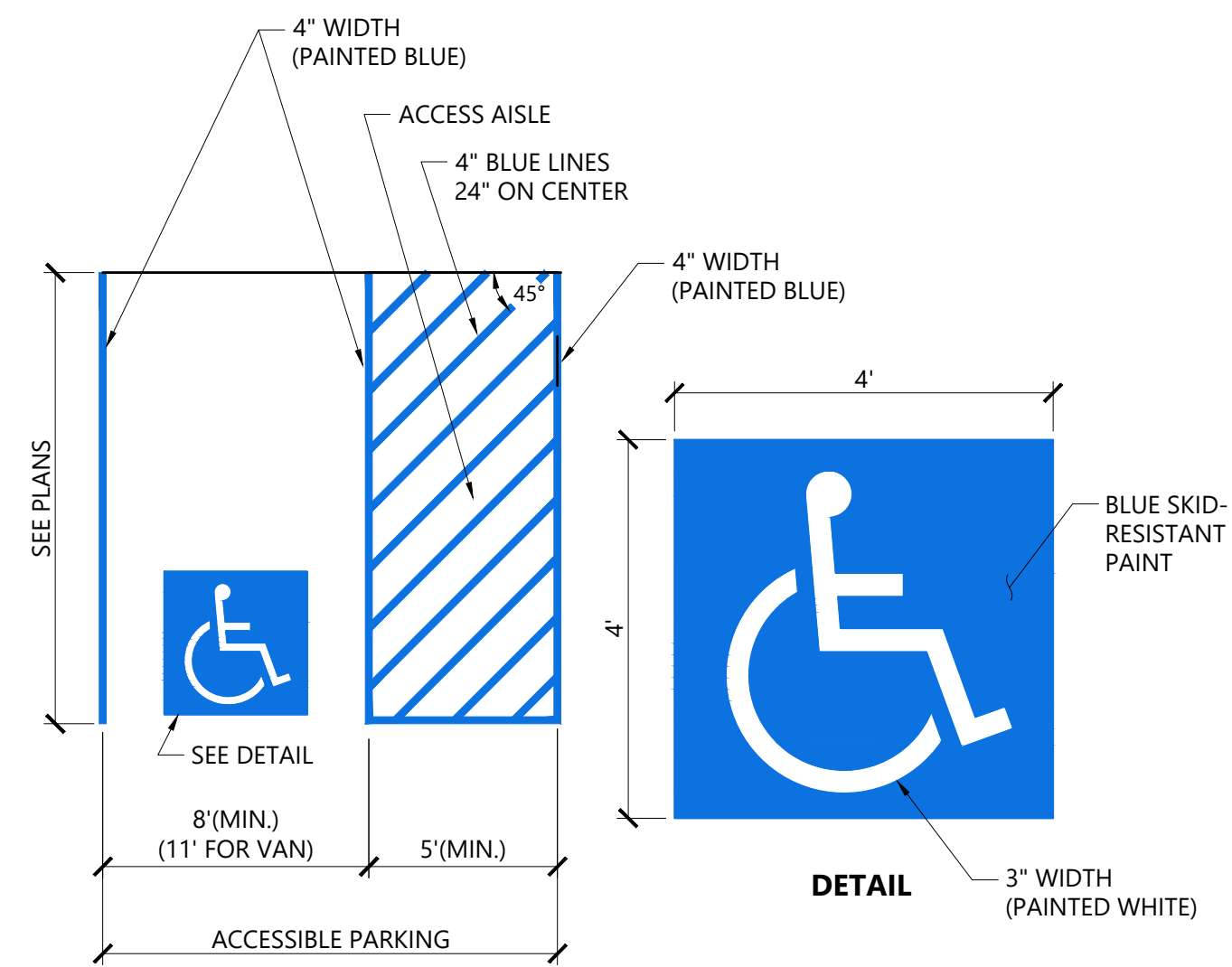
Designed by AB Checked by MC
Issued for SCHEMATIC DESIGN Date June 27, 2025

NOT APPROVED FOR CONSTRUCTION
Drawing Title
**Site Improvement Plans
Parking Concept**

C3.03

Sheet 8 of 17

Project Number 16234.00

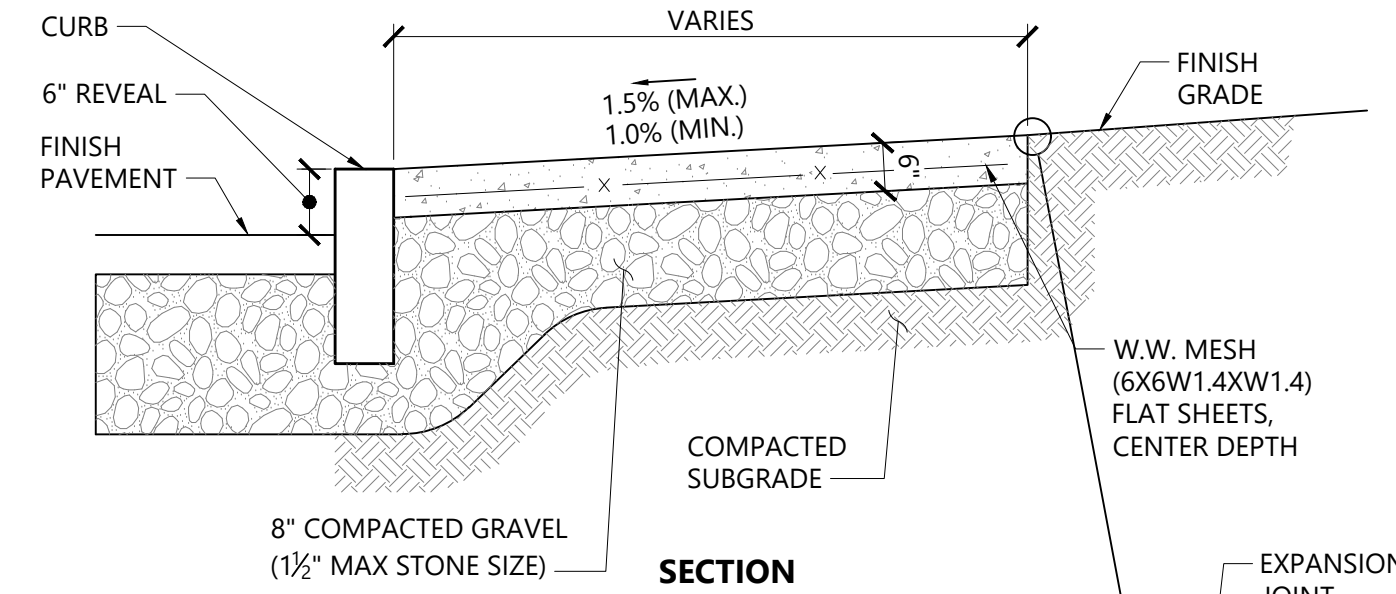


NOTES

1. ALL DIMENSIONS TO CENTER OF 4" PAVEMENT STRIPING.
2. ALL SLOPES THROUGHOUT THE ACCESSIBLE PARKING AND AISLE AREAS SHALL NOT EXCEED 1.5%.

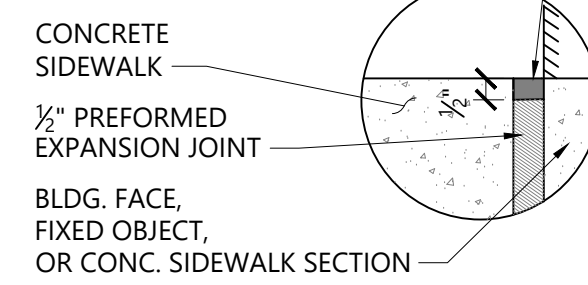
Accessible Parking Space

N.T.S. Source: VHB 12/19 LD_552A



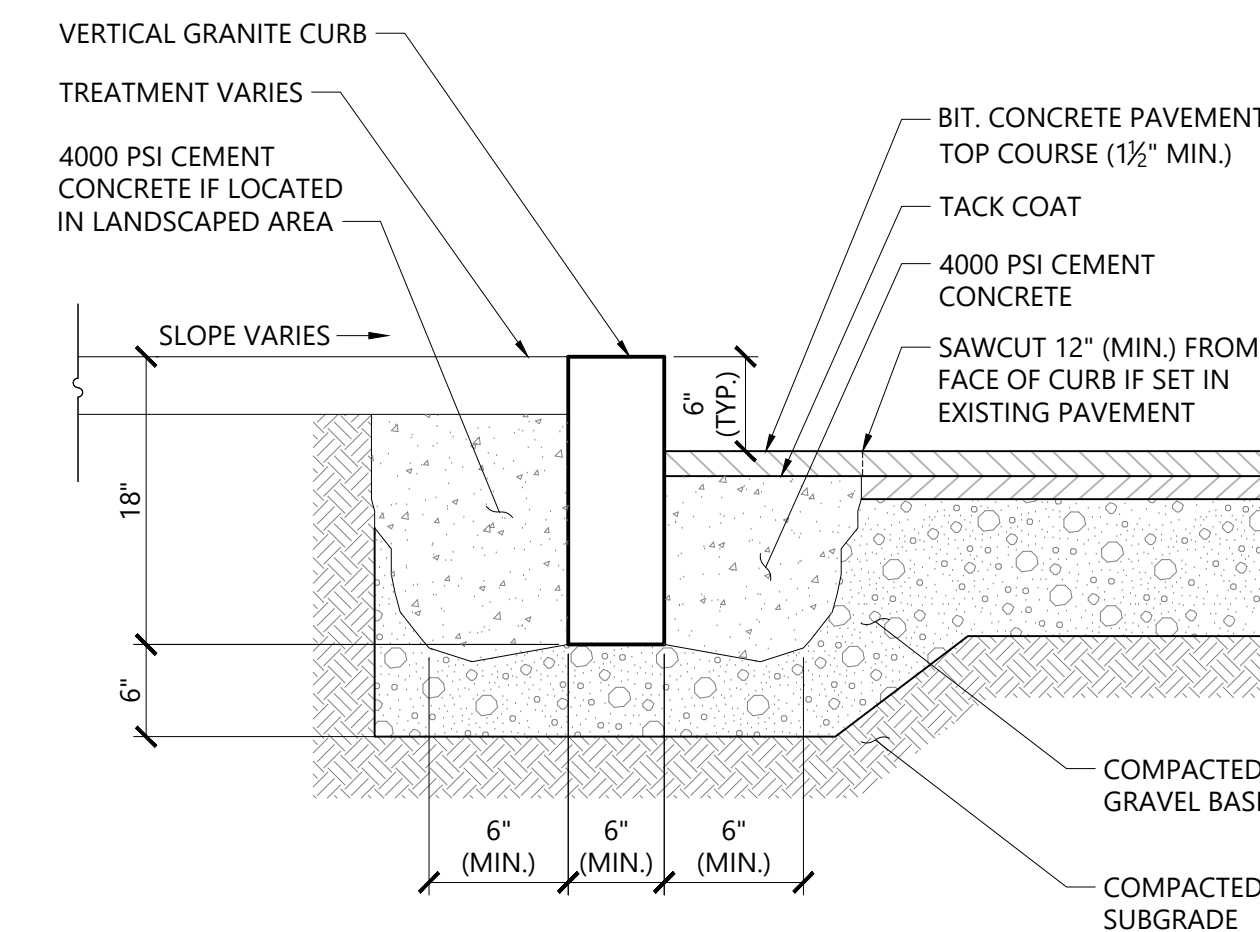
NOTES

1. CONCRETE FOR SIDEWALKS TO BE 4000 PSI AND FOR DRIVEWAYS 5000 PSI. BOTH MIXES TO BE TYPE II, 6% (1.5s) AIR ENTRAINED.
2. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-FORMED EXPANSION JOINT FILLER & SEALER.
3. PROVIDE SAWCUT CONTROL JOINTS AT 6' O.C. OR AS NOTED ON PLANS.
4. PROVIDE MEDIUM BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
5. ALL EXPOSED CONCRETE SURFACES SHALL BE SEALED WITH A SILANE-SILOXANE PRODUCT.



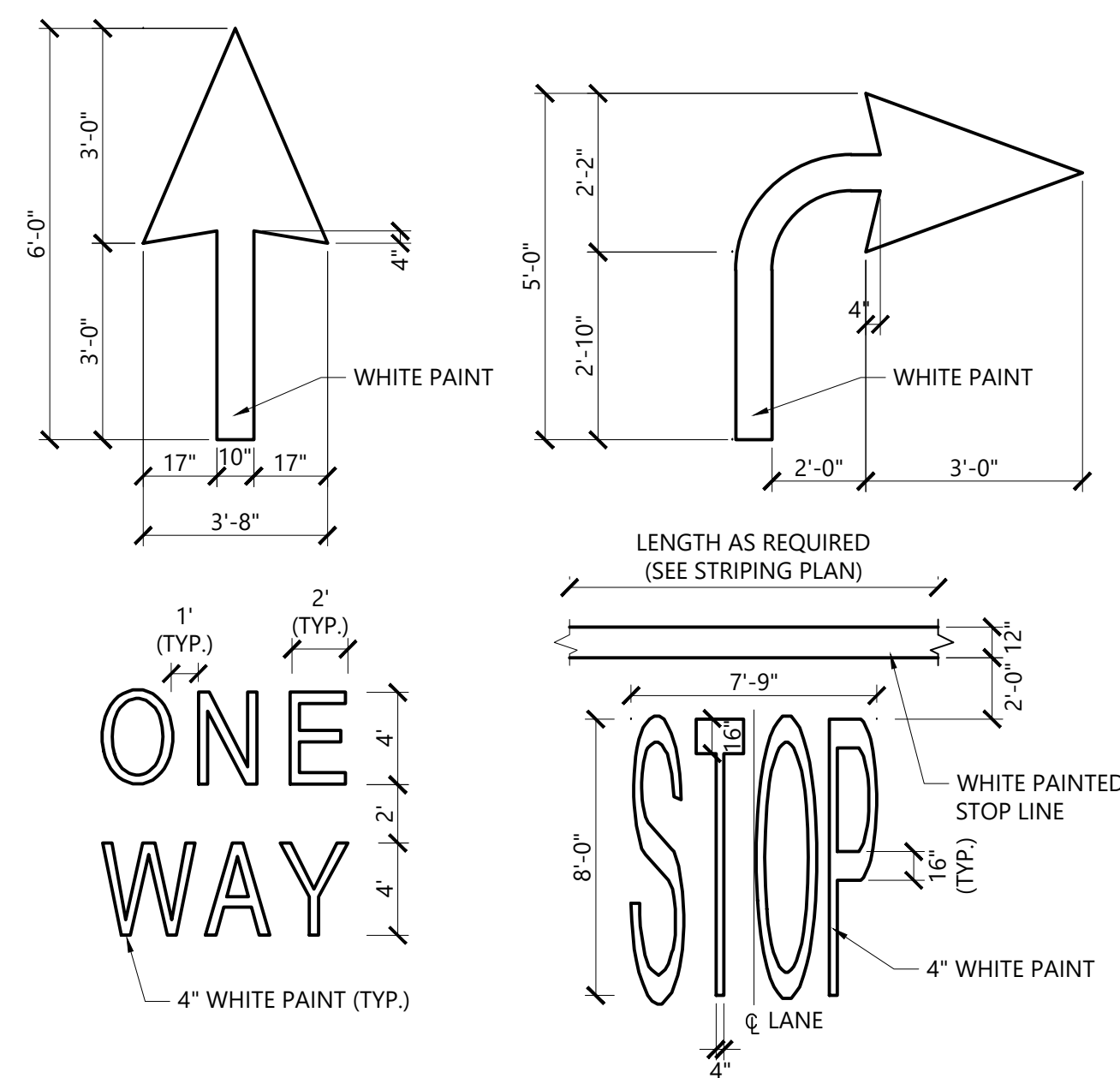
Concrete Sidewalk

N.T.S. Source: VHB 3/20 LD_420



Vertical Granite Curb (VGC)

N.T.S. Source: VHB 3/20 LD_402

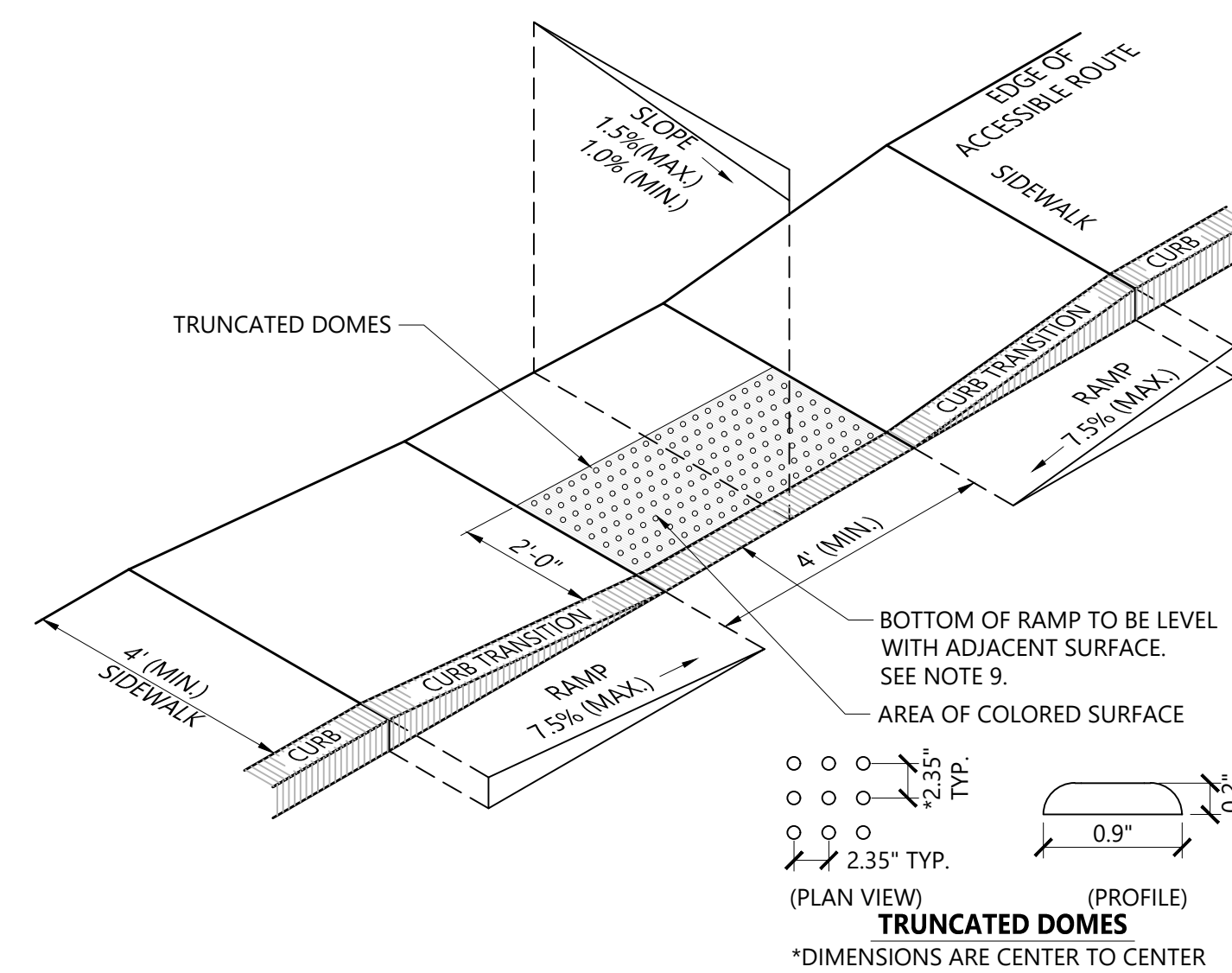


NOTES

1. PAVEMENT MARKINGS TO BE INSTALLED FOR ON SITE WORK IN LOCATIONS SHOWN.

Painted Pavement Markings - On Site

N.T.S. Source: VHB 1/16 LD_554

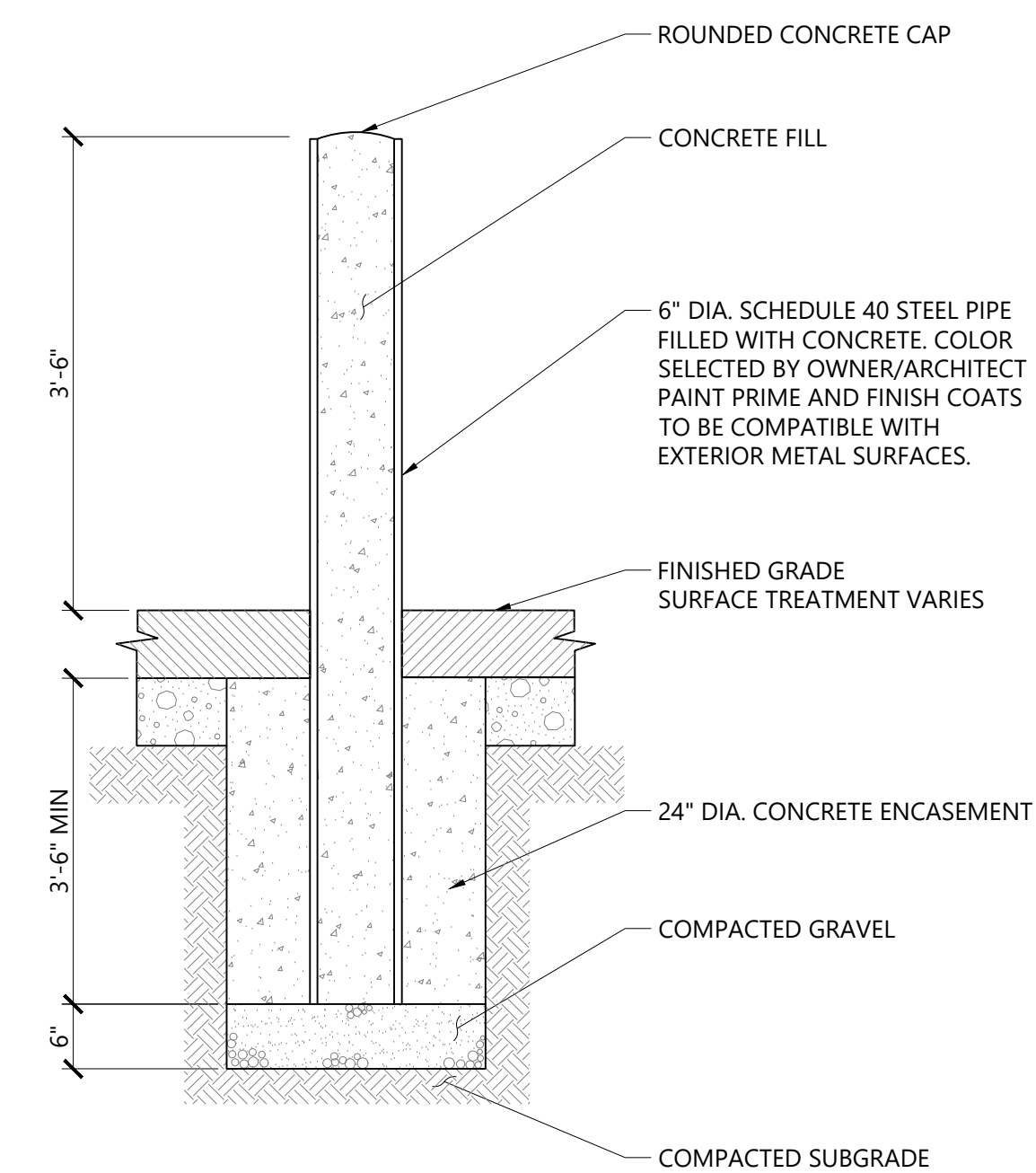


NOTES

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 RAMP SHALL BE 5%.
3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE AT CURB RAMP 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. Source: VHB 12/20 LD_500



Bollard

N.T.S. Source: VHB 12/19 LD_700

Bennington Street Resiliency Improvements

101 Walnut Street
Watertown, MA

No.	Revision	Date	App'd

Designed by AB Checked by MC
Issued for SCHEMATIC DESIGN Date June 27, 2025

NOT APPROVED FOR CONSTRUCTION
Drawing Title Site Details 4

Drawing Number

C3.04

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Project Number 16234.00



101 Walnut Street
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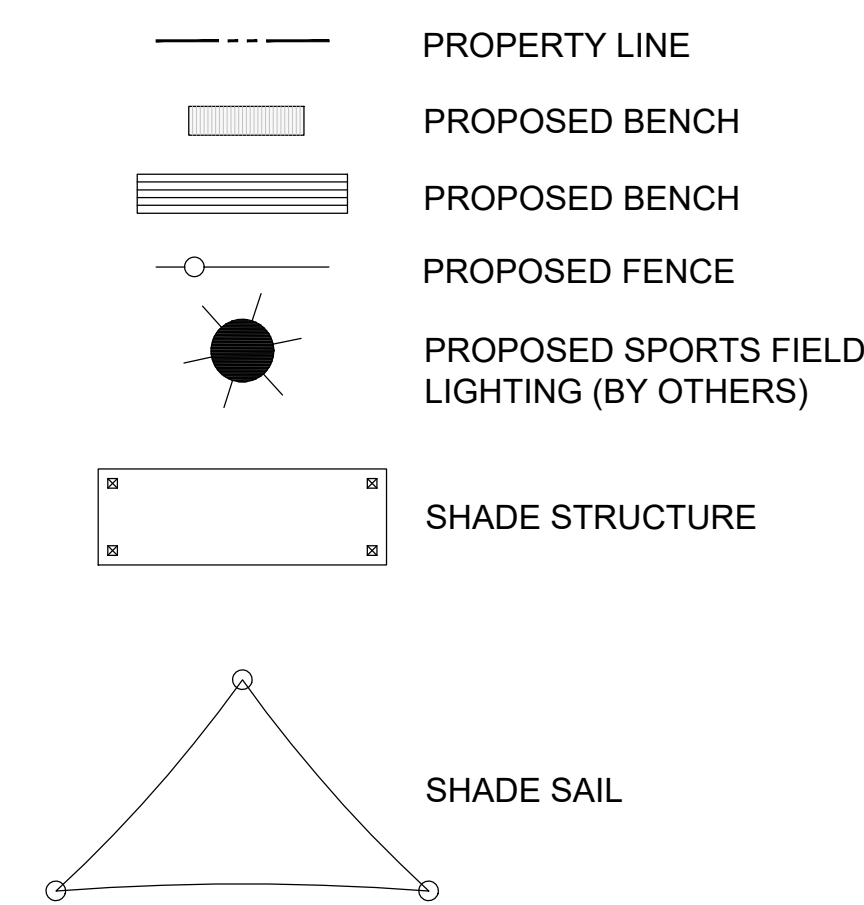


781.316.1595
terraink.com

LAYOUT & MATERIALS NOTES:

1. ALL LINE AND GRADE WORK PER THE DRAWINGS AND SPECIFICATIONS SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR SURVEYOR ENGAGED BY THE CONTRACTOR.
2. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
3. ALL DIMENSIONS ARE FROM FACE OF BUILDING FOUNDATION, WALL OR CURB UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FOUNDATION WALLS.
4. THE DIMENSIONS SHOWN ON THE DRAWINGS INDICATE DESIGN INTENT AND MUST BE FIELD VERIFIED PRIOR TO THE PREPARATION OF SHOP DRAWINGS. SHOP DRAWINGS FOR ALL PAVING LAYOUT SHALL BE BASED UPON ACTUAL LAYOUT AND FIELD MEASUREMENTS BY THE CONTRACTOR.
5. IN AREAS OUTSIDE OF THE LIMIT OF WORK, WHERE WORK INCIDENTAL TO THE PROJECT IS REQUIRED TO SATISFY THE DESIGN INTENT, RESTORE EXISTING SITE CONDITIONS AND FEATURES TO MATCH ADJACENT EXISTING SITE CONDITIONS AND FINISHES.

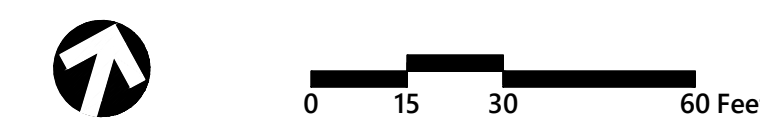
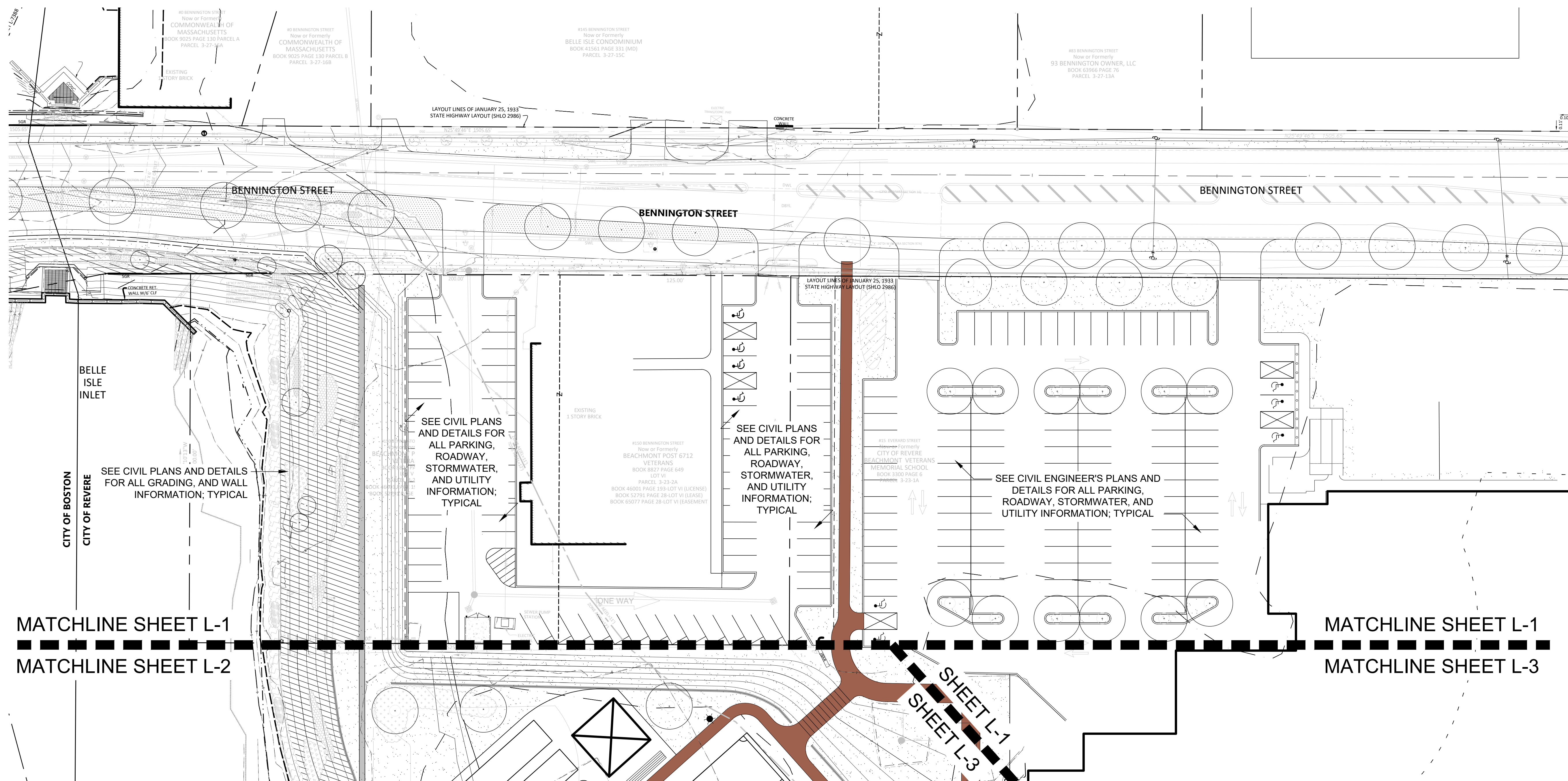
LEGEND



KEY



SCALE: 1" = 500'



BENNINGTON STREET RESILIENCY IMPROVEMENTS
 101 Walnut Street
 Watertown, MA

No.	Revision	Date	Appvd.

Designed by: **HM** Checked by: **ET**
 Issued for: **SCHMIDT VETERANS MEMORIAL SCHOOL** Date: **JUNE 27, 2025**

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 Fredericks Park Design
 Concept 1



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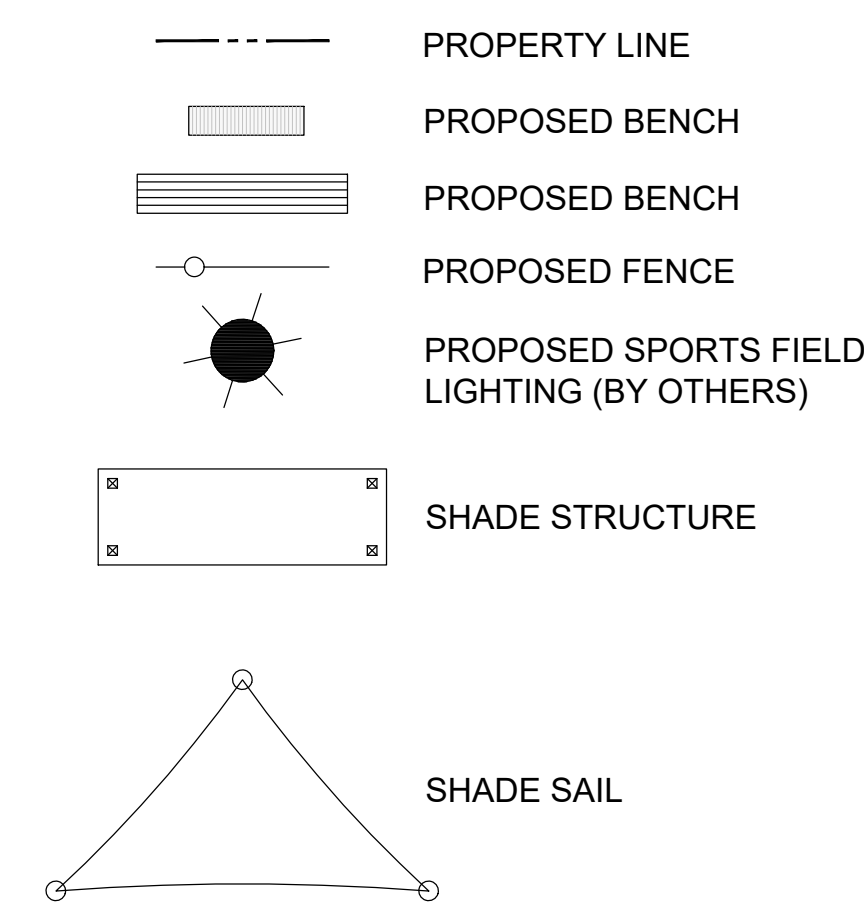


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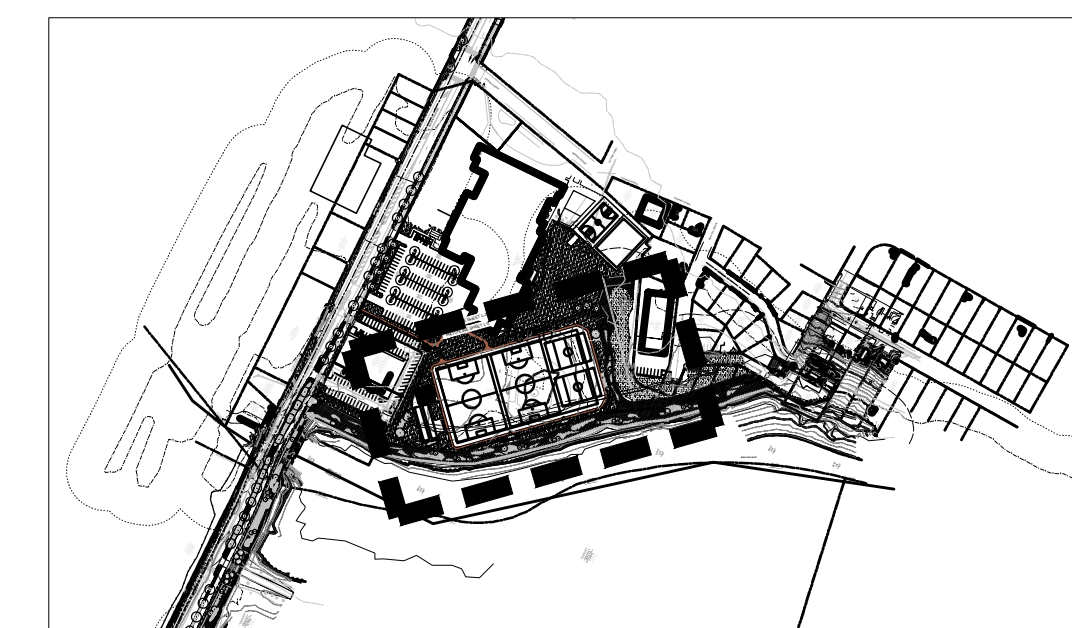
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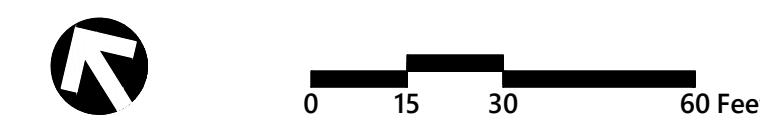
LEGEND



KEY



SCALE: 1" = 500'



BENNINGTON STREET RESILIENCY IMPROVEMENTS
101 Walnut Street
Watertown, MA

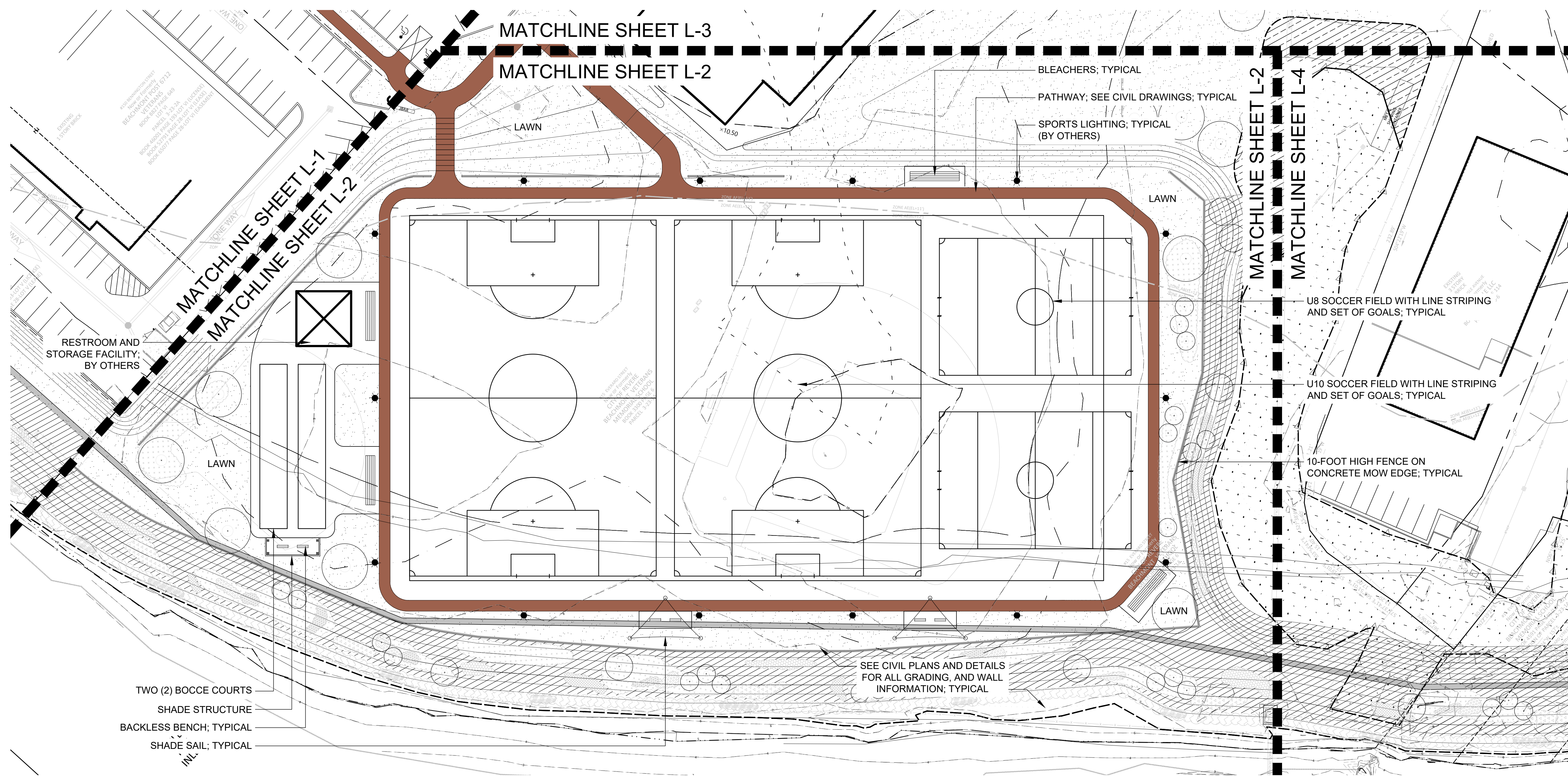
No.	Revision	Date	Appr'd.

Designed by: HM Checked by: ET
Issued for: Date: JUNE 27, 2025
SCHEMATIC DESIGN

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Fredericks Park Design
Concept 2

Drawing Number
L-2
Sheet 11 of 17

Project Number
16234.00





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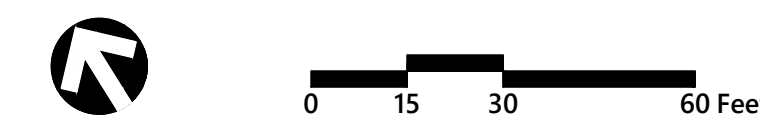
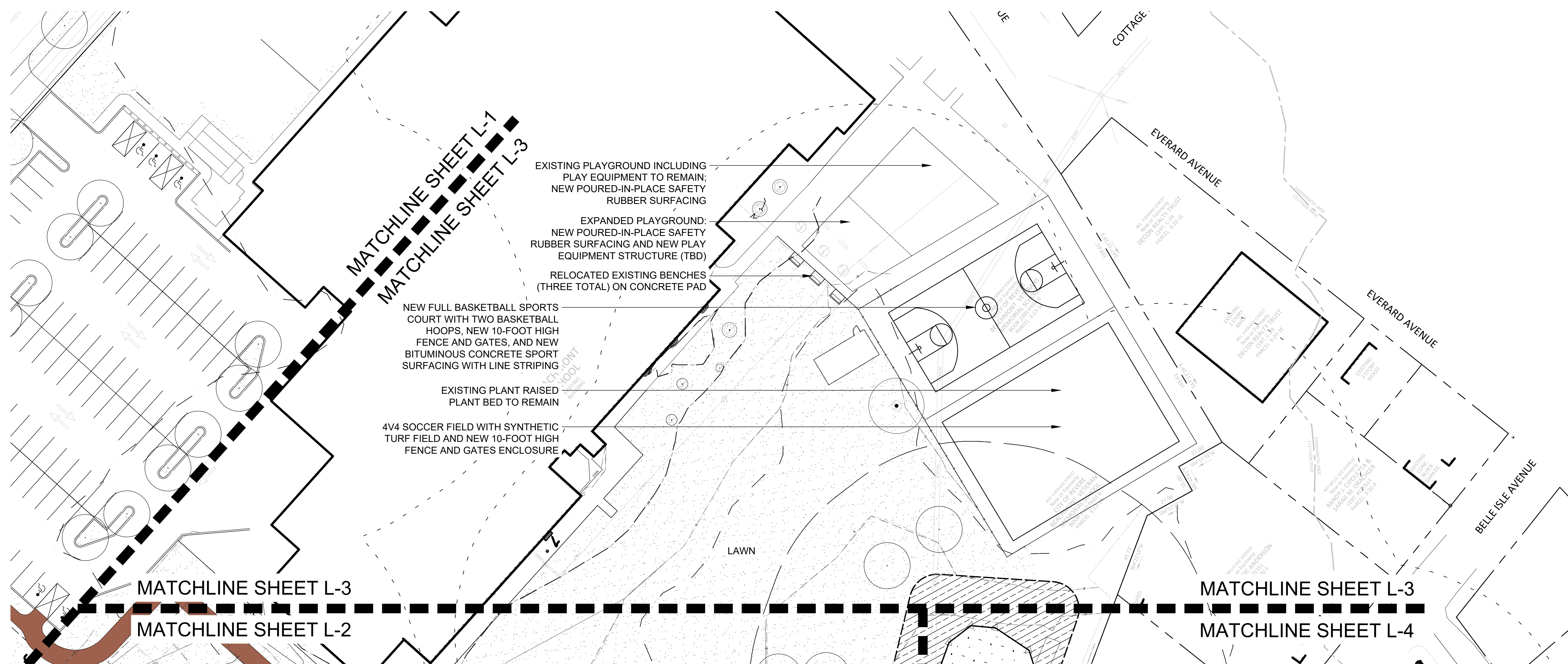
LEGEND

- PROPERTY LINE
- [Hatched Box] PROPOSED BENCH
- [Hatched Box] PROPOSED BENCH
- [Circle with X] PROPOSED FENCE
- [Sun Symbol] PROPOSED SPORTS FIELD LIGHTING (BY OTHERS)
- [Rectangular Box] SHADE STRUCTURE
- [Triangle] SHADE SAIL

KEY



SCALE: 1" = 500'



BENNINGTON STREET RESILIENCY IMPROVEMENTS
 101 Walnut Street
 Watertown, MA

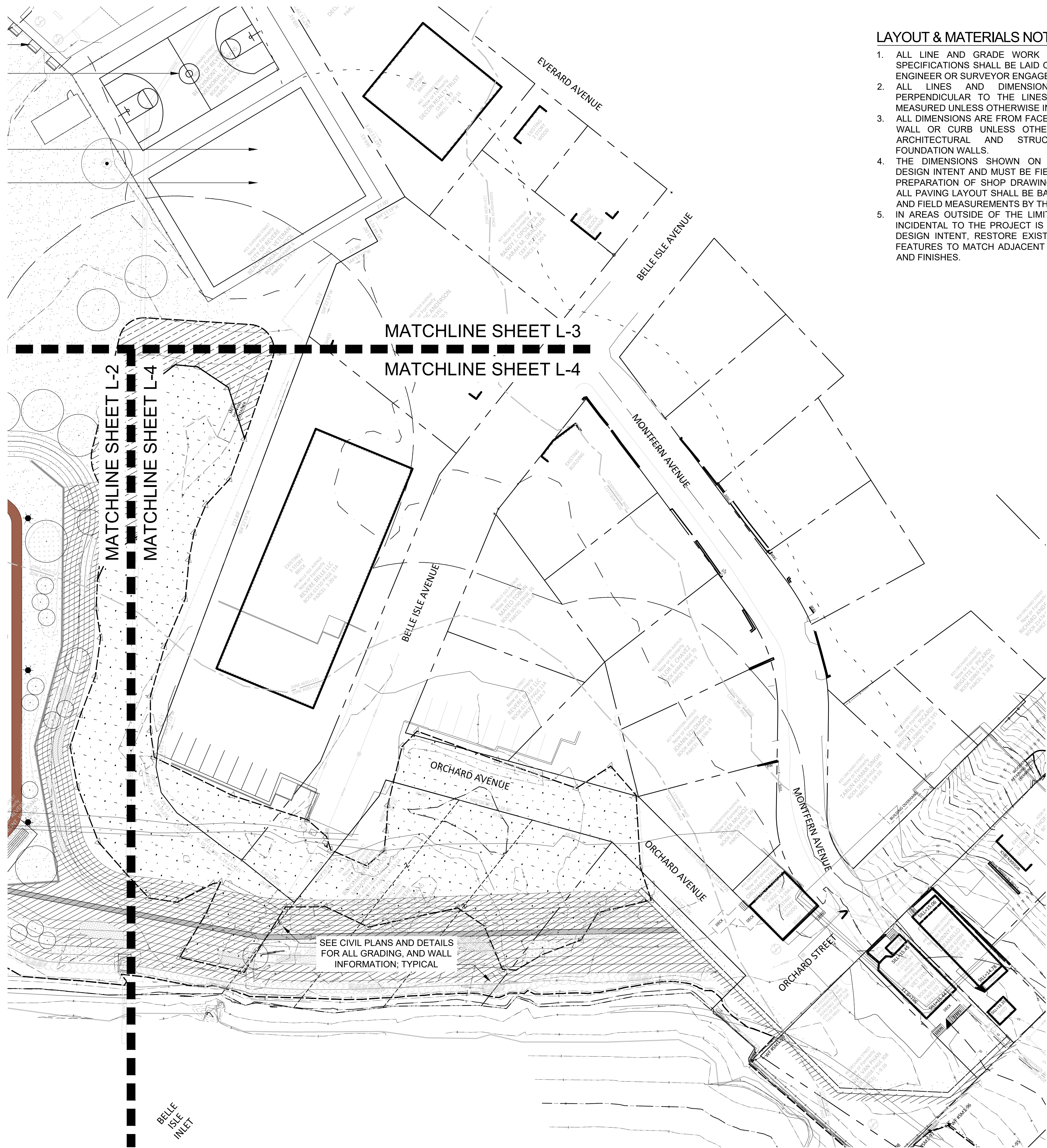
No.	Revision	Date	Appvd.

Designed by: HM
 Checked by: ET
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 Date: JUNE 27, 2025

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 Fredericks Park Design
 Concept 3

Drawing Number
L-3
 Sheet 12 of 17

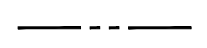

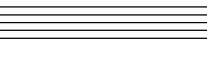



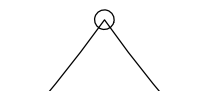
Project Number
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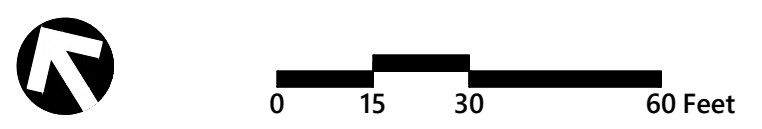
LEGEND

-  PROPERTY LINE
-  PROPOSED BENCH
-  PROPOSED BENCH
-  PROPOSED FENCE
-  PROPOSED SPORTS FIELD LIGHTING (BY OTHERS)
-  SHADE STRUCTURE
-  SHADE SAIL

KEY



SCALE: 1" = 500'



BENNINGTON STREET RESILIENCY IMPROVEMENTS
101 Walnut Street
Watertown, MA

No.	Revision	Date	Apprv.

Designed by: HM Checked by: ET
Issued for: Date: JUNE 27, 2025
SCHEMATIC DESIGN

NOT APPROVED FOR CONSTRUCTION
Fredericks Park Design
Concept 4

SCHEMATIC DESIGN PLANT SCHEDULE - FREDERICKS PARK; SHEET L-5

MARSH EDGE HERBACEOUS MIX

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
145	DS	DISTICHILIS SPICATA	SALTGRASS	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACV)
150	EM	EUTROCHIMUM MACLATUM	JOE-PYE WEED	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)
157	HM	HIBISCUS MOSCHEUTOS	SWAMP ROSE-MALLOW	NA	NEWP #2 PLUG	18" O.C. (N) (S) (OBL)
149	JG	JUNCUS EFFUSUS	SOFT RUSH	NA	NEWP #2 PLUG	18" O.C. (N) (S) (OBL)
160	SP	SPARTINA PATENS	SALTMEADOW CORDGRASS	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)
182	SS	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)

MARSH EDGE DECIDUOUS SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
3	BH	BACCHARUS HALIMIFOLIA	GROUNDSEL	2'-3' HT.	NEWP WHIP	6' O.C. (N) (S) (FACW)
10	IF	IVA FRUTESCENS	HIGH-TIDE BUSH	2'-3' HT.	NEWP WHIP	4' O.C. (N) (S) (FACW)

DECIDUOUS UPLAND SHADE TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
12	GT	GLEDITSIA TRI. INER. 'SKYLINE'	SKYLINE HONEYLOCUST	2.5"- 3" CAL.	BALL & BURLAP	30' O.C. (IN)(S)

DECIDUOUS UPLAND ORNAMENTAL TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
2	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	6'-7' HT.	B&B	10' O.C. (N) (S) (FAC)
1	CC	CRATAEGUS CRUS. INERMIS	THORNLESS HAWTHORN	6'-7' HT.	#15 CONT.	15' O.C. (N) (S)

DECIDUOUS UPLAND SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
1	AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
1	CP	COMPTONIA PEREGRINA	SWEET FERN	15"-18" HT.	#2 CONT.	4' O.C. (N) (S) (UPL)
2	MP	MYRICA(MORELLA) PENSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
1	PM	PRUNUS MARITIMA	BEACH PLUM	24"-36" HT.	#5 CONT.	6' O.C. (N) (S) (UPL)
1	RA	RHUS AROMATICA	FRAGRANT SUMAC	18"-24" HT.	#3 CONT.	8' O.C. (N) (S)
41	VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	18"-24" HT.	#3 CONT.	3' O.C. (N) (S) (FACW)

NOTE: UPDATED HORTICULTURAL NAMES -
(MP) MYRICA PENSYLVANICA = MORELLA CAROLINIENSIS

EVERGREEN UPLAND SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
35	JH	JUNIPERUS HOR. 'PLUMOSA COMPACTA'	ANDORRA JUNIPER	24"-36" SP.	#3 CONT.	4' O.C. (IN)(S)

TURF | BUFFER ENHANCEMENT

QTY SF	SEED MIX TYPE	NOTES
17,147 SF	NON-IRRIGATED GENERAL LAWN SEED MIX; TRAFFIC ISLANDS AND MOW STRIP ADJACENT TO PAVING	NORTHEAST NURSERY, PEABODY, MA; 978.239.6449
8,328 SF	NON-IRRIGATED SLOPE NEW ENGLAND COASTAL SALT TOLERANT SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA; 413.548.8000

NOTE: ALL SCHEMATIC DESIGN DOCUMENT PLANT LIST QUANTITIES ARE APPROXIMATE AND WILL BE FURTHER REFINED IN DESIGN DEVELOPMENT IN CONJUNCTION WITH THE FINAL SITE DESIGN.

O.C. = ON-CENTER SPACING
(N) = NATIVE SPECIES
(IN) = IMPROVED NATIVE SPECIES
(S) = SALT TOLERANT SPECIES
(FAC) = FACULTATIVE SPECIES
(FACU) = FACULTATIVE UPLAND SPECIES
(FACW) = FACULTATIVE WETLAND SPECIES
(UPL) = OBLIGATE UPLAND SPECIES

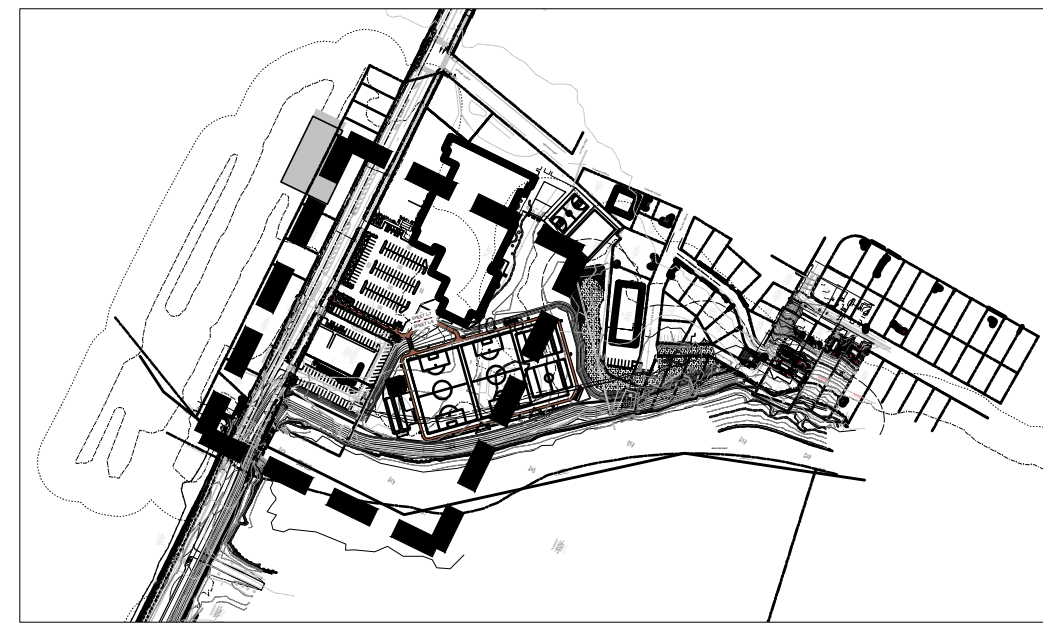
LEGEND

- PROPERTY LINE
- PROPOSED DECIDUOUS TREE
- TREE TAG
- SHRUB TAG
- ▨ NON-IRRIGATED GENERAL LAWN SEED MIX
- ▧ NON-IRRIGATED SLOPE | NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX

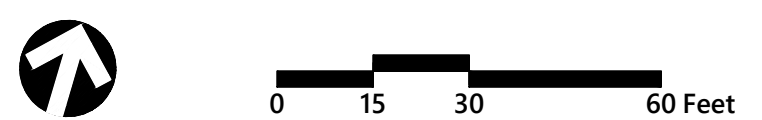
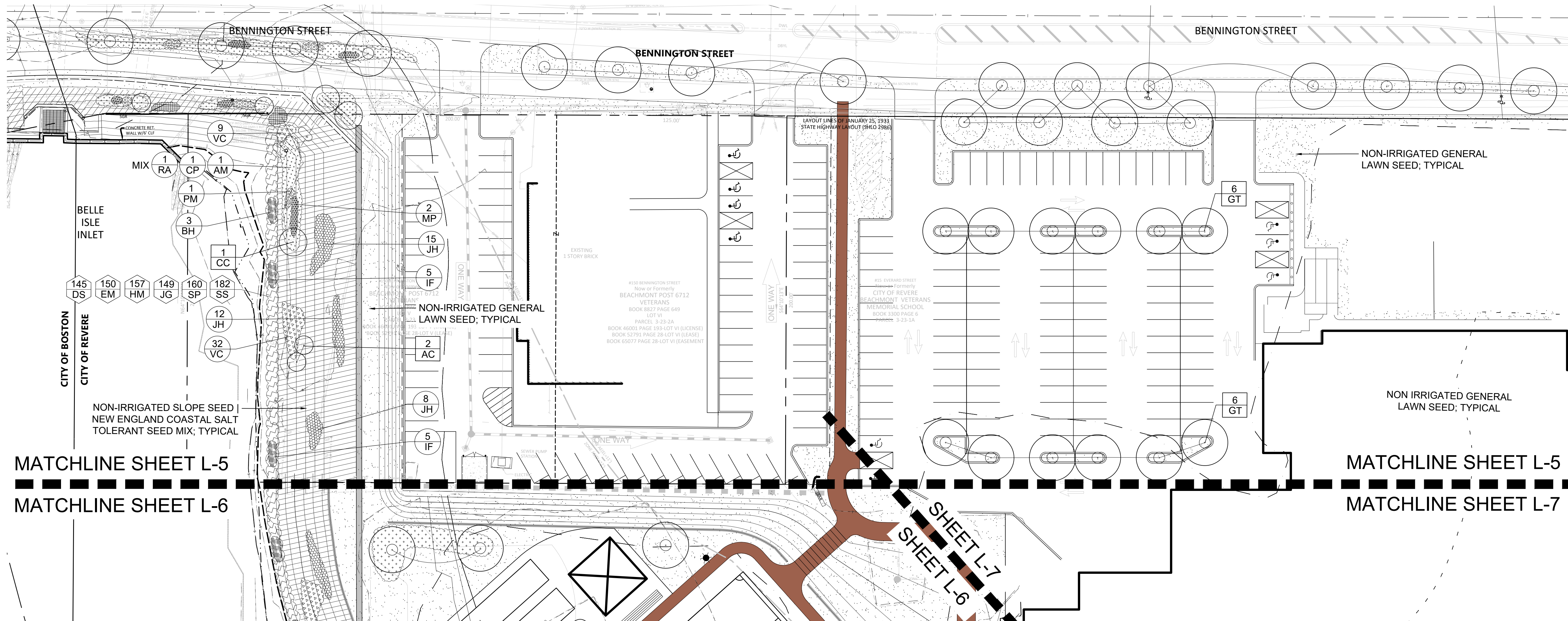
PLANTING PLAN NOTES:

- ALL PLANTING SOILS SHALL BE ONE PART TOPSOIL, ONE PART COMPOSTED ORGANIC MATTER, ONE PART NATIVE SOIL MIXED PRIOR TO PLANTING INSTALLATION.
- THE CONTRACTOR SHALL CONFIRM THE ACTUAL DEPTH OF ALL PLANTING AREAS PRIOR TO ANY PLANT MATERIAL BEING SECURED. REPORT ANY LEDGE OR SUBSTANDARD SOIL/SUBSURFACE CONDITIONS TO THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL CONSIDER THE DISPLACEMENT OF PLANTING SOIL FOR THE PLANT MATERIAL ROOT BALLS IN THE OVERALL PLANTING BED FINISHED GRADE. ALLOW ENOUGH ROOM IN THE PLANTING BED ELEVATION TO SPREAD DISPLACED SOIL AND STILL MEET THE INDICATED FINISHED GRADE INCLUDING THE 2" OF HARDWOOD MULCH.
- ANY MATERIALS ACCUMULATED OVER THE ROOT FLARE OF A TREE OR SHRUB MUST BE REMOVED COMPLETELY UNTIL THE ROOT FLARE IS EXPOSED AND ALL GIRDLING ROOTS REMOVED PRIOR TO PLANTING.
- THE CONTRACTOR SHALL LOCATE AND VERIFY WITH THE LANDSCAPE ARCHITECT ALL EXISTING TREES, SHRUBS, PERENNIALS, AND/OR GROUNDCOVER TO REMAIN, TO BE REMOVED, OR TO BE TRANSPLANTED. PROTECT IN PLACE ALL EXISTING TREES, SHRUBS, AND GROUNDCOVER TO REMAIN.
- ALL NEW PLANTING MATERIAL SHALL CONFORM TO MINIMUM GUIDELINES ESTABLISHED BY THE MOST CURRENT AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1). IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY AND THE PLANT HEIGHT SHALL BE MEASURED FROM THE ROOT FLARE, NOT THE BOTTOM OF POT OR BURLAP BALL.
- STAKE THE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR BETWEEN THE PLANT MATERIALS LIST AND THE PLANT KEYS ON THE DRAWINGS, THE HIGHER NUMBER OF PLANTS SHALL GOVERN. THE CONTRACTOR SHALL REPORT DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, FRUIT, COLOR, AND CULTURE MUST BE APPROVED.
- ALL LAWN AREAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORK SHALL RECEIVE TURF RENOVATION FOR DAMAGED AREA PER SPECIFICATIONS.

KEY



SCALE: 1" = 500'



BENNINGTON STREET RESILIENCY IMPROVEMENTS
101 Walnut Street
Watertown, MA

No.	Revision	Date	Appr.

Designed by: HM Checked by: ET
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NOT APPROVED FOR CONSTRUCTION
Planting Plan 1



SCHEMATIC DESIGN PLANT SCHEDULE - FREDERICKS PARK; SHEET L-6

MARSH EDGE HERBACEOUS MIX

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
306	DS	DISTICHILIS SPICATA	SALTGRASS	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)
300	EM	EUTROCIUM MACLATUM	JOE-PYE WEED	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)
314	HM	HIBISCUS MOSCHEUTOS	SWAMP ROSE-MALLOW	NA	NEWP #2 PLUG	18" O.C. (N) (S) (OBL)
317	JG	JUNCUS EFFUSUS	SOFT RUSH	NA	NEWP #2 PLUG	18" O.C. (N) (S) (OBL)
327	SP	SPARTINA PATENS	SALTMEADOW CORDGRASS	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)
324	SS	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)

MARSH EDGE DECIDUOUS SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
11	BH	BACCHARUS HALIMIFOLIA	GROUNDSEL	2'-3" HT.	NEWP WHIP	6' O.C. (N) (S) (FACW)
14	IF	IVA FRUTESCENS	HIGH-TIDE BUSH	2'-3" HT.	NEWP WHIP	4' O.C. (N) (S) (FACW)

DECIDUOUS UPLAND SHADE TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
6	AR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2.5"- 3" CAL.	BALL & BURLAP	30' O.C. (IN) (FAC)
1	NS	NYSSA SYLVATICA	BLACK TUPELO	2.5"- 3" CAL.	B&B	30' O.C. (N) (S) (FAC)
3	QP	QUERCUS PALUSTRIS	PIN OAK	2.5"- 3" CAL.	B&B	30' O.C. (N) (S) (FACW)

DECIDUOUS UPLAND ORNAMENTAL TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
20	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	6'-7" HT.	B&B	10' O.C. (N) (S) (FAC)
6	CC	CRATAEGUS CRUS. INERMIS	THORNLESS HAWTHORN	6'-7" HT.	#15 CONT.	15' O.C. (N) (S)

O.C. = ON-CENTER SPACING
 (N) = NATIVE SPECIES
 (IN) = IMPROVED NATIVE SPECIES
 (S) = SALT TOLERANT SPECIES
 (FAC) = FACULTATIVE SPECIES
 (FACU) = FACULTATIVE UPLAND SPECIES
 (FACW) = FACULTATIVE WETLAND SPECIES
 (UPL) = OBLIGATE UPLAND SPECIES

DECIDUOUS UPLAND SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
60	AA	ARONIA MEL. 'LOW SCAPE MOUND'	LOW SCAPE MOUND CHOKEBERRY	15"-18" SP.	#2 CONT.	2' O.C. (IN)(S)
86	AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
42	CA	CLETHRA ALNIFOLIA	SUMMERSWEET	24"-30" HT.	#5 CONT.	6' O.C. (N) (S) (FAC)
89	CP	COMPTONIA PEREGRINA	SWEET FERN	15"-18" HT.	#2 CONT.	4' O.C. (N) (S) (UPL)
24	CR	CORNUS (SWIDA) RACEMOSA	GRAY DOGWOOD	24"-30" HT.	#5 CONT.	10' O.C. (N) (FAC)
15	MP	MYRICA(MORELLA) PENNSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
14	PM	PRUNUS MARITIMA	BEACH PLUM	24"-36" HT.	#5 CONT.	6' O.C. (N) (S) (UPL)
48	RA	RHUS AROMATICA	FRAGRANT SUMAC	18"-24" HT.	#3 CONT.	8' O.C. (N) (S)
99	VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	18"-24" HT.	#3 CONT.	3' O.C. (N) (S) (FACW)
8	VD	VIBURNUM DENTAUM	ARROWWOOD VIBURNUM	24"-30" HT.	#5 CONT.	8' O.C. (N) (S) (FAC)

NOTE: UPDATED HORTICULTURAL NAMES -
 (CR) CORNUS RACEMOSA = SWIDA RACEMOSA
 (MP) MYRICA PENNSYLVANICA = MORELLA CAROLINIENSIS

EVERGREEN UPLAND SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
61	JH	JUNIPERUS HOR. 'PLUMOSA COMPACTA'	ANDORRA JUNIPER	24"-36" SP.	#3 CONT.	4' O.C. (IN)(S)

NOTE: ALL SCHEMATIC DESIGN DOCUMENT PLANT LIST QUANTITIES ARE APPROXIMATE AND WILL BE FURTHER REFINED IN DESIGN DEVELOPMENT IN CONJUNCTION WITH THE FINAL SITE DESIGN.

TURF | BUFFER ENHANCEMENT

QTY SF	SEED MIX TYPE	NOTES
54,228	NON-IRRIGATED GENERAL LAWN SEED MIX; TRAFFIC ISLANDS AND MOW STRIP ADJACENT TO PAVING	NORTHEAST NURSERY, PEABODY, MA; 978.239.6449
27,081	NON-IRRIGATED SLOPE NE RCOASTAL SALT TOLERANT SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA; 413.548.8000

NOTE: ALL SCHEMATIC DESIGN DOCUMENT PLANT LIST QUANTITIES ARE APPROXIMATE AND WILL BE FURTHER REFINED IN DESIGN DEVELOPMENT IN CONJUNCTION WITH THE FINAL SITE DESIGN.

LEGEND

- PROPERTY LINE
- PROPOSED DECIDUOUS TREE
- TREE TAG
- SHRUB TAG
- ▨ NON-IRRIGATED GENERAL LAWN SEED MIX
- ▧ NON-IRRIGATED SLOPE | NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX
- ▩ NON-IRRIGATED SLOPE | NE ROADSIDE MATRIX UPLAND SEED MIX

SEE SHEET L-5 FOR PLANTING NOTES

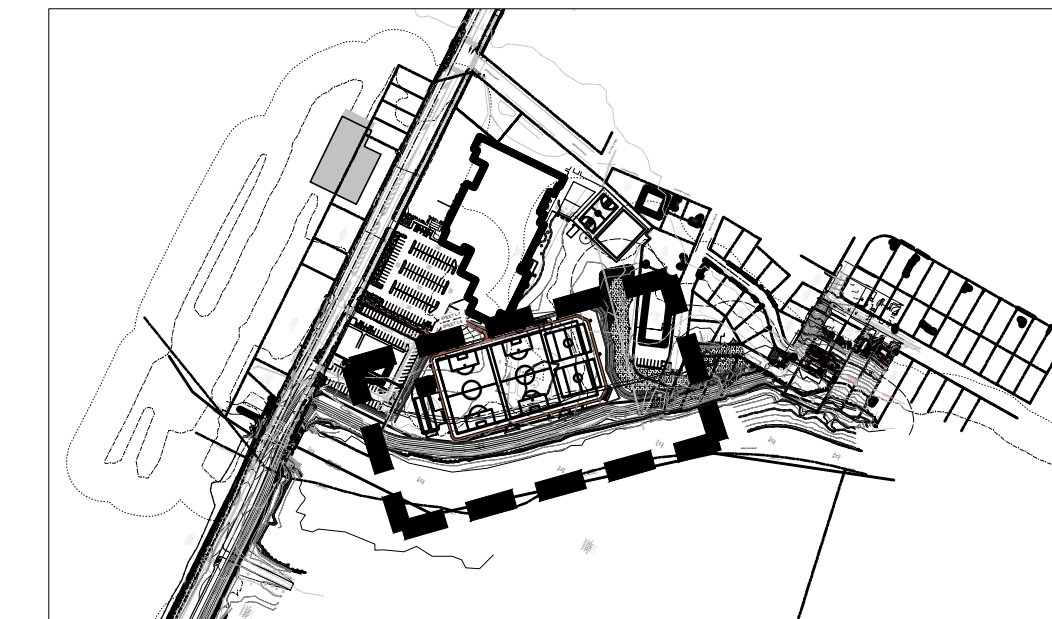


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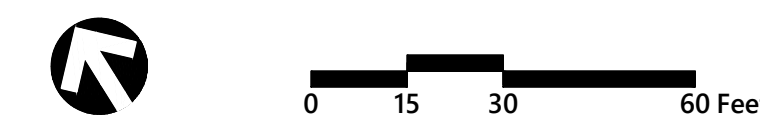
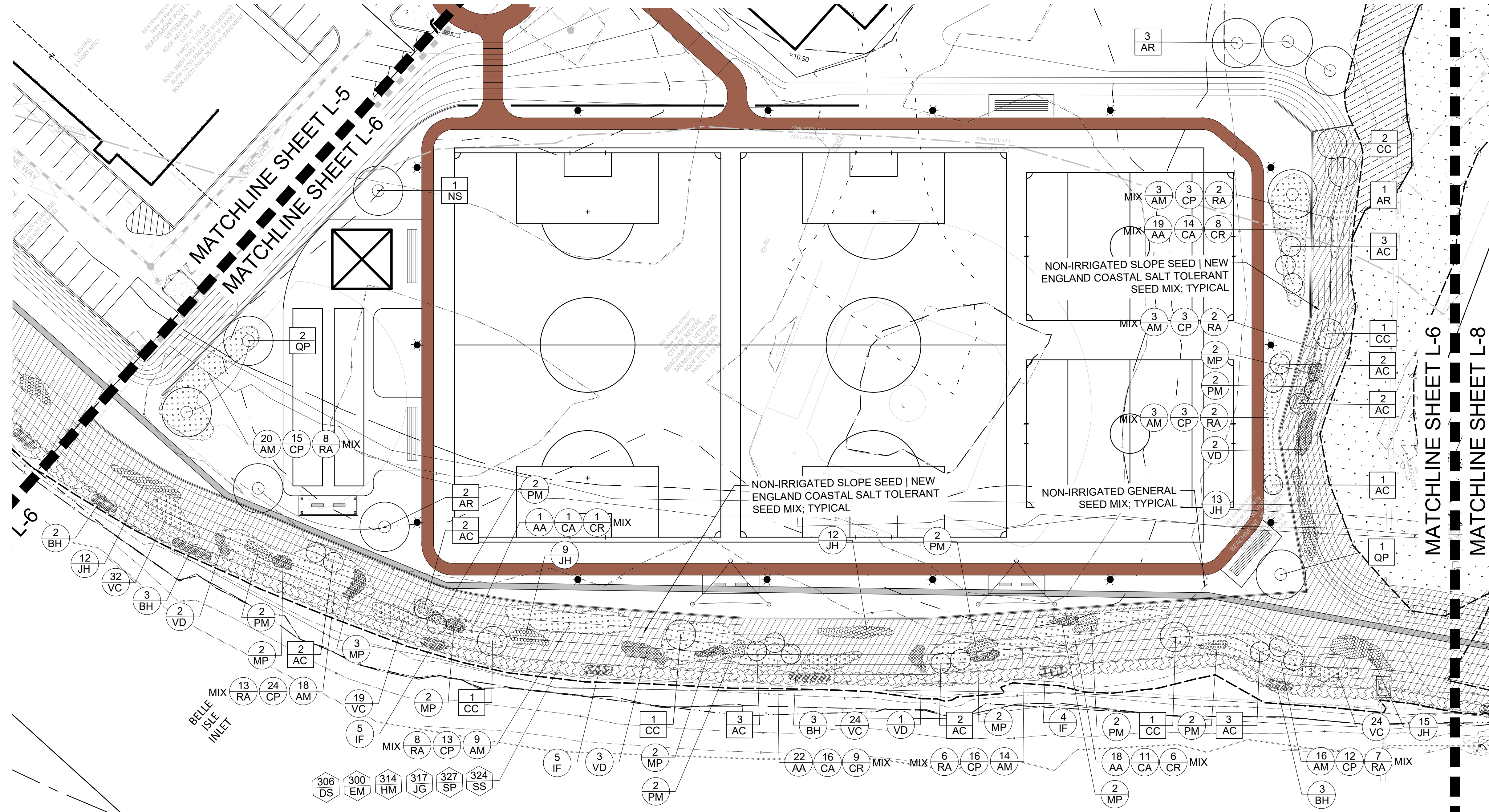


781.316.1595
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KEY



SCALE: 1" = 500'



BENNINGTON STREET RESILIENCY IMPROVEMENTS

101 Walnut Street
 Watertown, MA

No.	Revision	Date	Appr.

Designed by HM Checked by ET

Issued for SCHEMATIC DESIGN Date: JUNE 27, 2025

NOT APPROVED FOR CONSTRUCTION

Planting Plan 2

SCHEMATIC DESIGN PLANT SCHEDULE - FREDERICKS PARK; SHEET L-7

DECIDUOUS UPLAND SHADE TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
2	QP	QUERCUS PALUSTRIS	PIN OAK	2.5" - 3" CAL.	B&B	30' O.C. (N) (S) (FACW)

TURF | BUFFER ENHANCEMENT

QTY SF	SEED MIX TYPE	NOTES
29,501 SF	NON-IRRIGATED GENERAL LAWN SEED MIX; TRAFFIC ISLANDS AND MOW STRIP ADJACENT TO PAVING	NORTHEAST NURSERY, PEABODY, MA; 978.239.6449

NOTE: ALL SCHEMATIC DESIGN DOCUMENT PLANT LIST QUANTITIES ARE APPROXIMATE AND WILL BE FURTHER REFINED IN DESIGN DEVELOPMENT IN CONJUNCTION WITH THE FINAL SITE DESIGN.

O.C. = ON-CENTER SPACING
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 (S) = SALT TOLERANT SPECIES
 (FAC) = FACULTATIVE SPECIES
 (FACU) = FACULTATIVE UPLAND SPECIES
 (FACW) = FACULTATIVE WETLAND SPECIES
 (UPL) = OBLIGATE UPLAND SPECIES

PLANTING PLAN NOTES:

- ALL PLANTING SOILS SHALL BE ONE PART TOPSOIL, ONE PART COMPOSTED ORGANIC MATTER, ONE PART NATIVE SOIL MIXED PRIOR TO PLANTING INSTALLATION. THE CONTRACTOR SHALL CONFIRM THE ACTUAL DEPTH OF ALL PLANTING AREAS PRIOR TO ANY PLANT MATERIAL BEING SECURED. REPORT ANY LEDGE OR SUBSTANDARD SOIL/SUBSURFACE CONDITIONS TO THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL CONSIDER THE DISPLACEMENT OF PLANTING SOIL FOR THE PLANT MATERIAL ROOT BALLS IN THE OVERALL PLANTING BED FINISHED GRADE. ALLOW ENOUGH ROOM IN THE PLANTING BED ELEVATION TO SPREAD DISPLACED SOIL AND STILL MEET THE INDICATED FINISHED GRADE INCLUDING THE 2" OF HARDWOOD MULCH.
- ANY MATERIALS ACCUMULATED OVER THE ROOT FLARE OF A TREE OR SHRUB MUST BE REMOVED COMPLETELY UNTIL THE ROOT FLARE IS EXPOSED AND ALL GIRDLING ROOTS REMOVED PRIOR TO PLANTING.
- THE CONTRACTOR SHALL LOCATE AND VERIFY WITH THE LANDSCAPE ARCHITECT ALL EXISTING TREES, SHRUBS, PERENNIALS, AND/OR GROUNDCOVER TO REMAIN, TO BE REMOVED, OR TO BE TRANSPLANTED. PROTECT IN PLACE ALL EXISTING TREES, SHRUBS, AND GROUNDCOVER TO REMAIN.
- ALL NEW PLANTING MATERIAL SHALL CONFORM TO MINIMUM GUIDELINES ESTABLISHED BY THE MOST CURRENT AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1). IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY AND THE PLANT HEIGHT SHALL BE MEASURED FROM THE ROOT FLARE, NOT THE BOTTOM OF POT OR BURLAP BALL.
- STAKE THE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING.
- IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR BETWEEN THE PLANT MATERIALS LIST AND THE PLANT KEYS ON THE DRAWINGS, THE HIGHER NUMBER OF PLANTS SHALL GOVERN. THE CONTRACTOR SHALL REPORT DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, FRUIT, COLOR, AND CULTURE MUST BE APPROVED.
- ALL LAWN AREAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORK SHALL RECEIVE TURF RENOVATION FOR DAMAGED AREA PER SPECIFICATIONS.

LEGEND

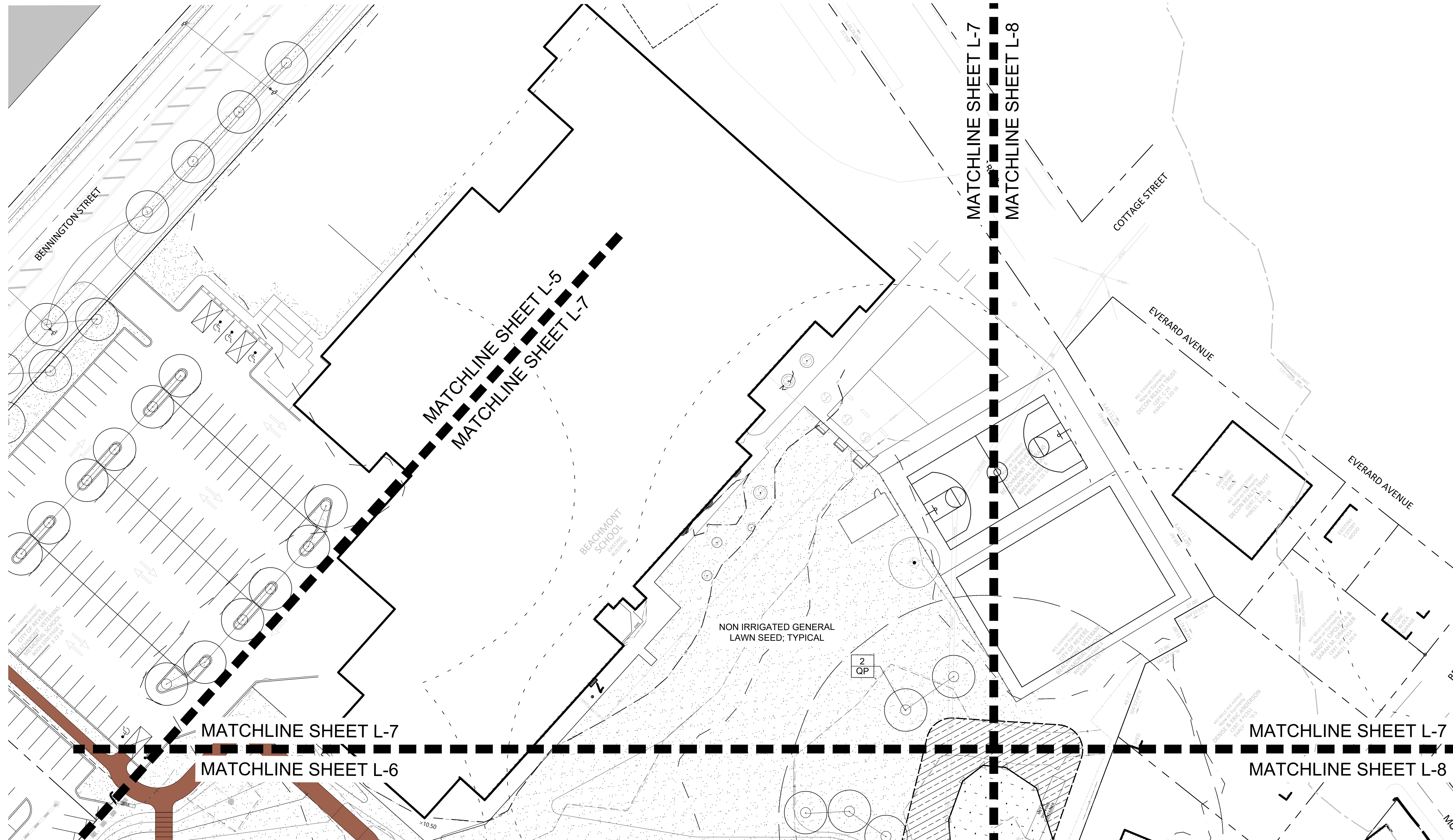
- PROPERTY LINE
- PROPOSED DECIDUOUS TREE
- TREE TAG
- SHRUB TAG
- NON-IRRIGATED GENERAL LAWN SEED MIX
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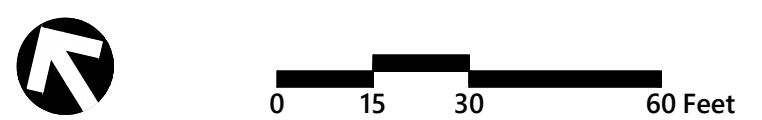
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KEY



SCALE: 1" = 500'



BENNINGTON STREET RESILIENCY IMPROVEMENTS
 101 Walnut Street
 Watertown, MA

No.	Revision	Date	Apprv.

Designed by: HM
 Checked by: ET
 Issued for: SCHEMATIC DESIGN
 Date: JUNE 27, 2025

NOT APPROVED FOR CONSTRUCTION
 Planting Plan 3

Drawing Number
L-7
 Sheet 16 of 17
 Project Number
 16234.00

SCHEMATIC DESIGN PLANT SCHEDULE - FREDERICKS PARK; SHEET L-8

MARSH EDGE HERBACEOUS MIX

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
152	DS	DISTICHILIS SPICATA	SALTGRASS	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)
160	EM	EUTROCHIMUM MACLATUM	JOE-PYE WEED	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)
157	HM	HIBISCUS MOSCHEUTOS	SWAMP ROSE-MALLOW	NA	NEWP #2 PLUG	18" O.C. (N) (S) (OBL)
146	JG	JUNCUS EFFUSUS	SOFT RUSH	NA	NEWP #2 PLUG	18" O.C. (N) (S) (OBL)
155	SP	SPARTINA PATENS	SALTMEADOW CORDGRASS	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)
173	SS	SOLIDAGO SEMPERVIRENS	SEASIDE GOLDENROD	NA	NEWP #2 PLUG	18" O.C. (N) (S) (FACW)

MARSH EDGE DECIDUOUS SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
6	BH	BACCHARUS HALIMIFOLIA	GROUNDSEL	2'-3' HT.	NEWP WHIP	6' O.C. (N) (S) (FACW)
8	IF	IVA FRUTESCENS	HIGH-TIDE BUSH	2'-3' HT.	NEWP WHIP	4' O.C. (N) (S) (FACW)

DECIDUOUS UPLAND ORNAMENTAL TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
3	AC	AMELANCHIER CANADENSIS	SERVICEBERRY	6'-7' HT.	B&B	10' O.C. (N) (S) (FAC)
1	CC	CRATAEGUS CRUS. INERMIS	THORNLESS HAWTHORN	6'-7' HT.	#15 CONT.	15' O.C. (N) (S)

DECIDUOUS UPLAND SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
18	AA	ARONIA MEL. 'LOW SCAPE MOUND'	LOW SCAPE MOUND CHOKEBERRY	15"-18" SP.	#2 CONT.	2' O.C. (IN)(S)
17	CA	CLETHRA ALNIFOLIA	SUMMERSWEET	24"-30" HT.	#5 CONT.	6' O.C. (N) (S) (FAC)
15	CR	CORNUS (SWIDA) RACEMOSA	GRAY DOGWOOD	24"-30" HT.	#5 CONT.	10' O.C. (N) (FAC)
2	MP	MYRICA(MORELLA) PENNSYLVANICA	NORTHERN BAYBERRY	18"-24" HT.	#3 CONT.	6' O.C. (N) (S) (FAC)
2	PM	PRUNUS MARITIMA	BEACH PLUM	24"-36" HT.	#5 CONT.	6' O.C. (N) (S) (UPL)
55	VC	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	18"-24" HT.	#3 CONT.	3' O.C. (N) (S) (FACW)
6	VD	VIBURNUM DENTAUM	ARROWWOOD VIBURNUM	24"-30" HT.	#5 CONT.	8' O.C. (N) (S) (FAC)

NOTE: UPDATED HORTICULTURAL NAMES -
(CR) CORNUS RACEMOSA = SWIDA RACEMOSA
(MP) MYRICA PENNSYLVANICA = MORELLA CAROLINIENSIS

EVERGREEN UPLAND SHRUBS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
27	JH	JUNIPERUS HOR. 'PLUMOSA COMPACTA'	ANDORRA JUNIPER	24"-36" SP.	#3 CONT.	4' O.C. (IN)(S)

TURF | BUFFER ENHANCEMENT

QTY SF	SEED MIX TYPE	NOTES
1,418 SF	NON-IRRIGATED GENERAL LAWN SEED MIX; TRAFFIC ISLANDS AND MOW STRIP ADJACENT TO PAVING	NORTHEAST NURSERY, PEABODY, MA; 978.239.6449
15,589 SF	NON-IRRIGATED SLOPE NE COASTAL SALT TOLERANT SEED MIX; ALL SLOPES AT OR GREATER THAN 3:1 WITH EROSION CONTROL BLANKET	NEW ENGLAND WETLAND PLANTS (NEWP), INC., MA; 413.548.8000

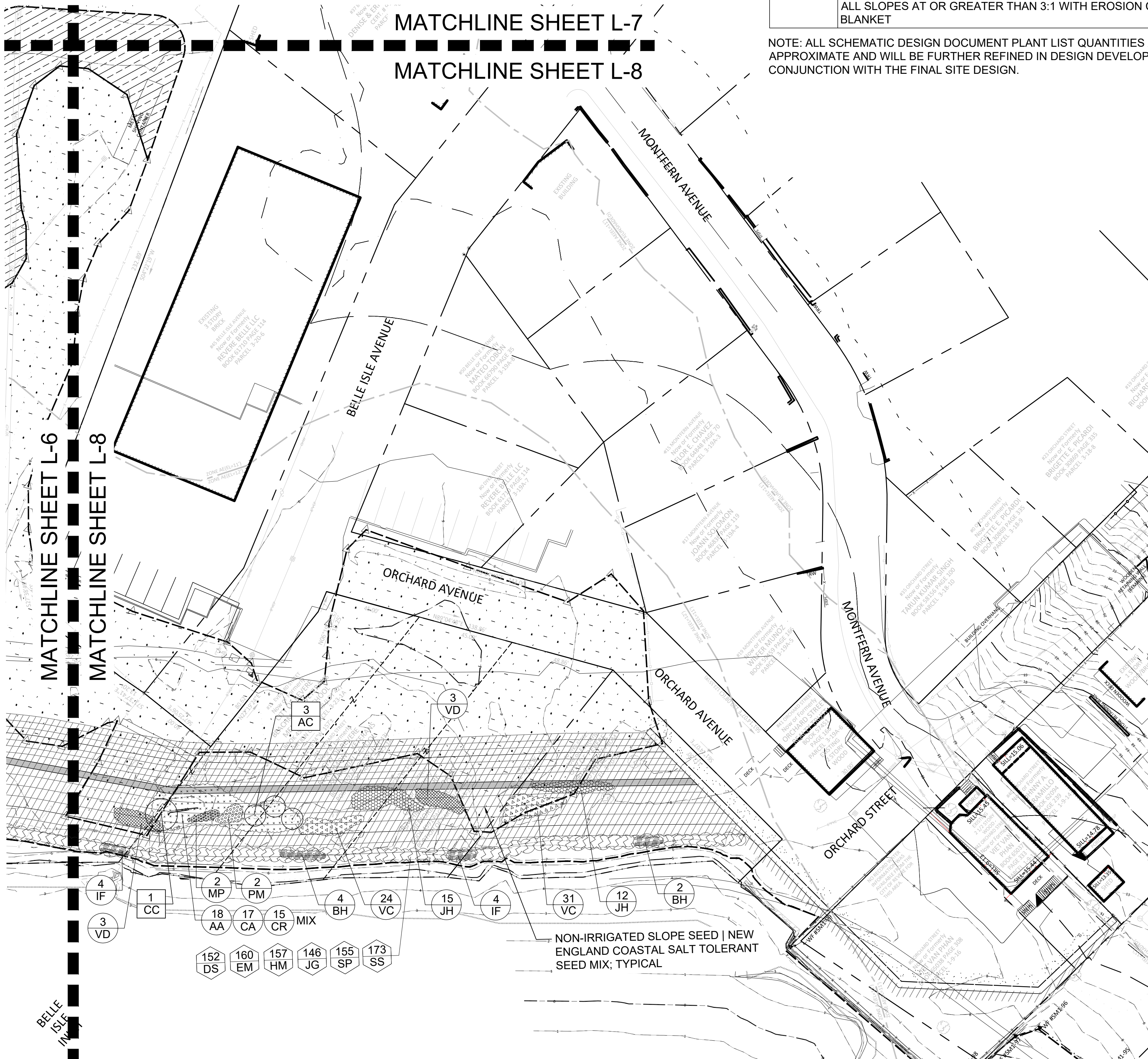
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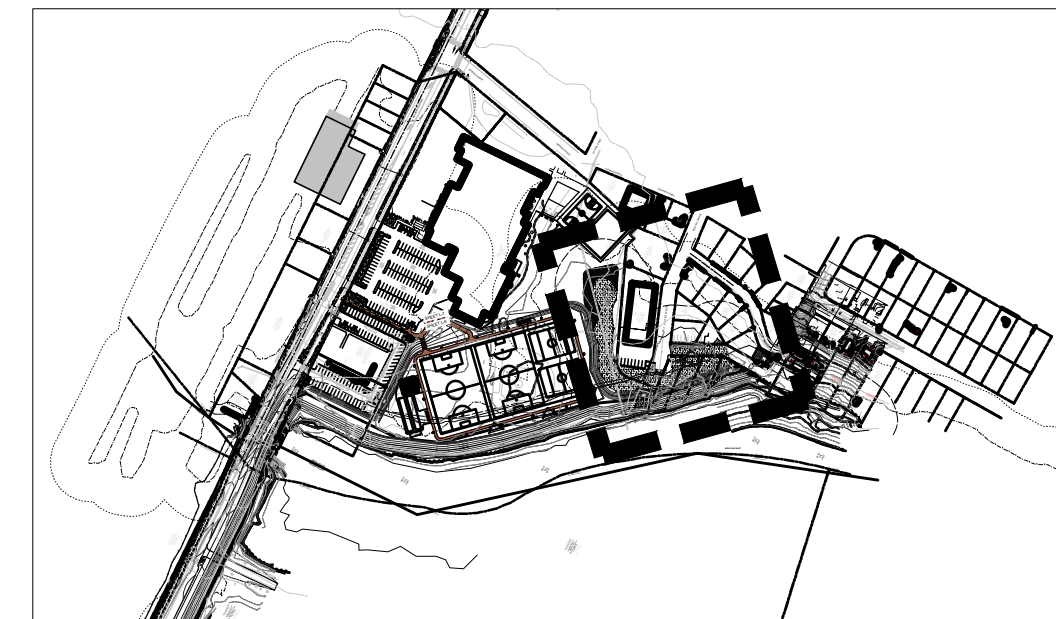
LEGEND

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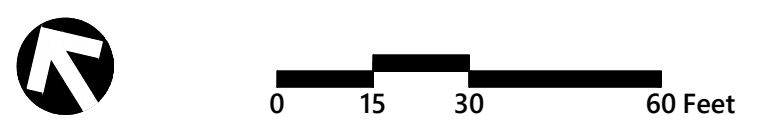
**FOR PLANTING NOTES
SEE SHEET L-5**



KEY



SCALE: 1" = 500'



**BENNINGTON STREET
RESILIENCY
IMPROVEMENTS**

101 Walnut Street
Watertown, MA

No.	Revision	Date	Appvd.

Designed by: HM Checked by: ET
Issued for: Date: JUNE 27, 2025
SCHEMATIC DESIGN

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Planting Plan 4

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