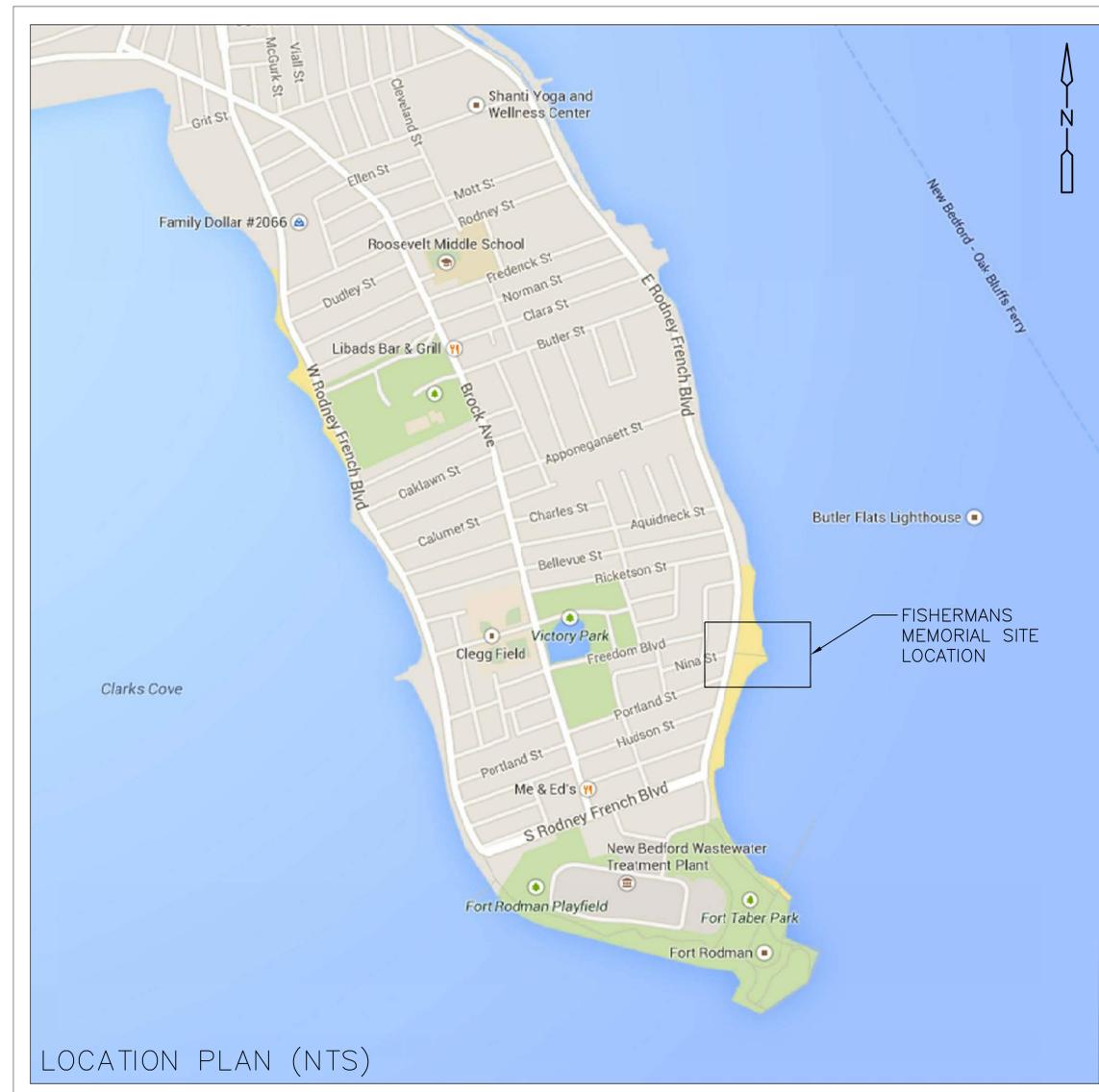


NEW BEDFORD FISHERMANS MEMORIAL IMPROVEMENTS

CITY OF NEW BEDFORD, MASSACHUSETTS

JUNE, 2014



LIST OF DRAWINGS

SHEET NO.	TITLE
L-1	EXISTING CONDITIONS, DEMOLITIONS, REMOVALS
L-2	LAYOUT, MATERIALS, GRADING, AND DRAINAGE
L-3	SITE SECTIONS
L-4	DETAILS I
L-5	DETAILS II



CAMBRIDGE, MASSACHUSETTS

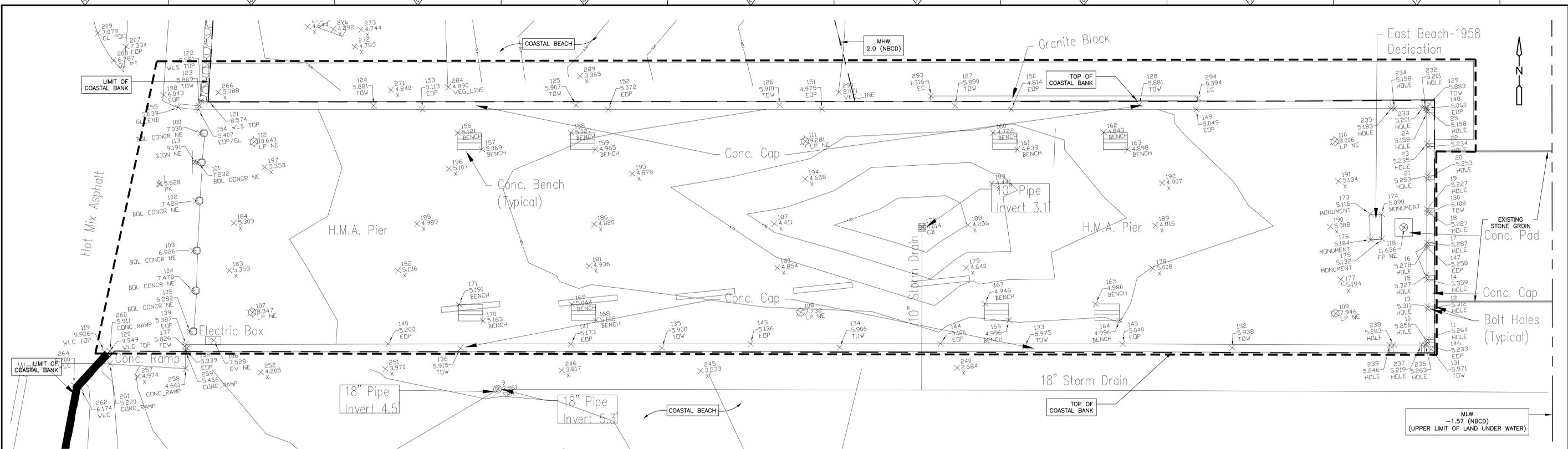
Water

Environment

Transportation

Energy

Facilities



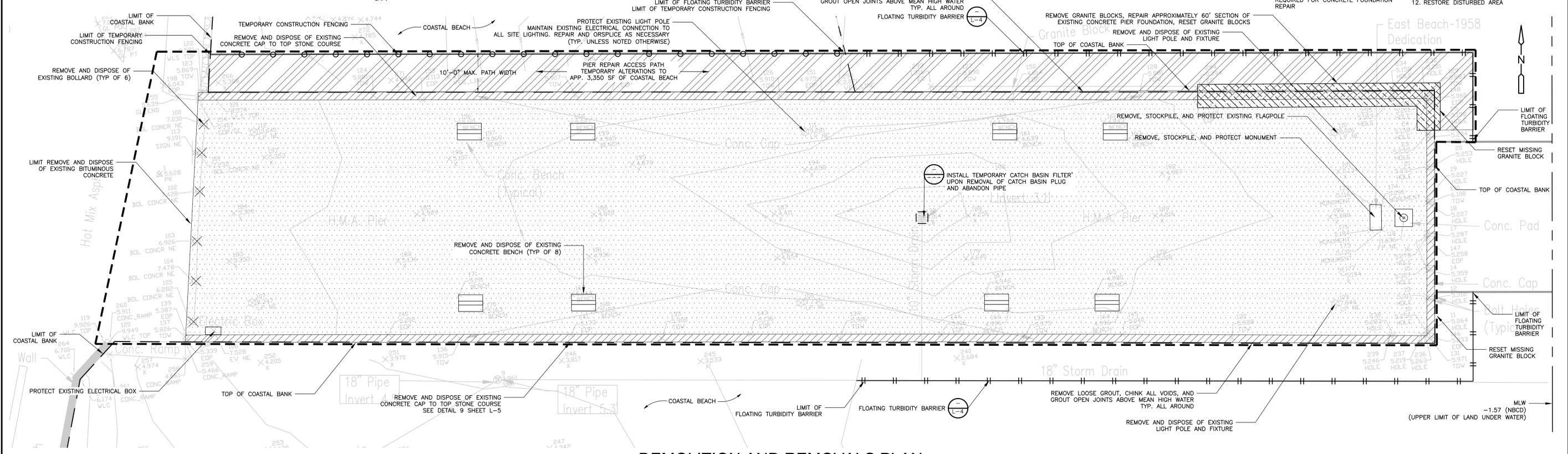
EXISTING CONDITIONS PLAN

LEGEND:

- LIMIT OF WORK
- FLOATING TURBIDITY BARRIER
- TEMPORARY CONSTRUCTION FENCING
- TOP OF COASTAL BANK
- REMOVE AND DISPOSE OF EXISTING CONCRETE CAP TO TOP STONE COURSE SEE DETAIL 9 SHEET L-5
- CONCRETE PIER FOUNDATION REPAIR
- PIER REPAIR ACCESS PATH ON COASTAL BEACH
- REMOVE AND DISPOSE OF EXISTING BITUMINOUS CONCRETE PAVEMENT

- NOTE:**
- 100-YR FLOODPLAIN ELEVATION IS LOCATED AT 15.28 FT NBGD
 - MEAN LOW TIDE IS LOCATED AT -1.57 FT NBGD
 - MEAN HIGH TIDE IS LOCATED AT +2.00 FT NBGD
 - CONSTRUCTION EQUIPMENT FOR PIER FOUNDATION REPAIR SHALL CONSIST OF A RUBBER TRACK EXCAVATOR. PIER REPAIR ACCESS PATH SHALL BE COVERED WITH BOARDS DURING EQUIPMENT OPERATION.
 - STRAW WATTLE SHALL BE INSTALLED UPON REMOVAL OF EXISTING CONCRETE CAP AT PERIMETER OF EXISTING PIER. STRAW WATTLE SHALL BE REMOVED UPON CONSTRUCTION OF NEW CONCRETE PERIMETER CAP.

- SUGGESTED SEQUENCE OF CONSTRUCTION:**
- WORK ON BEACH TO BE PERFORMED DURING THE LOW TIDE CYCLE ONLY.
 - WOODEN BOARDS TO BE SET ON THE BEACH ACCESS AREA TO PROTECT ANY EXISTING VEGETATION FROM CONSTRUCTION TRAFFIC AND REMOVED DURING EACH TIDE CYCLE.
 - CONSTRUCTION VEHICLES ON BEACH TO CONSIST OF RUBBER TRACK EXCAVATOR.
 - REMOVE CONCRETE PIER CAP
 - REMOVE GRANITE PIER FACE ABOVE AREA REQUIRED FOR CONCRETE FOUNDATION REPAIR
 - SAW CUT AND REMOVE DAMAGED/ DETERIORATED CONCRETE.
 - EXCAVATE AREA, PLACE FILTER FABRIC AND STONE, FORM NEW CONCRETE FOUNDATION
 - POUR NEW QUICK CURE CONCRETE FOUNDATION (WILL BE SUFFICIENTLY CURED TO WITHSTAND NEXT TIDE CYCLE)
 - RE-SET GRANITE BLOCKS ABOVE NEW CONCRETE FOUNDATION
 - POUR NEW CONCRETE PIER CAP.
 - GROUT JOINTS
 - RESTORE DISTURBED AREA



DEMOLITION AND REMOVALS PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

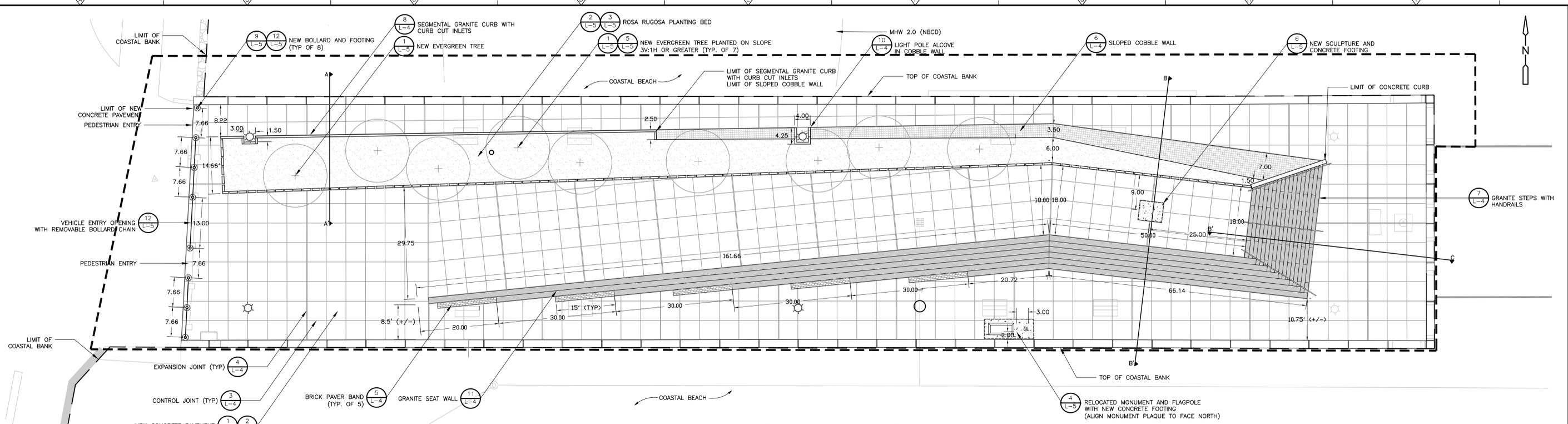
DESIGNED BY: N.WATKINS
 DRAWN BY: N.WATKINS
 SHEET CHK'D BY: K.DRAKE
 CROSS CHK'D BY: K.DRAKE
 APPROVED BY: K.DRAKE
 DATE: JUNE 2014



CITY OF NEW BEDFORD MASSACHUSETTS
 FISHERMANS MEMORIAL

EXISTING CONDITIONS, DEMOLITION, AND REMOVALS PLAN

PROJECT NO. 0309-101012
 FILE NAME: CSTP001
 SHEET NO. L-1
 ACC. NO.



LAYOUT, MATERIALS, AND PLANTING PLAN

LEGEND:

- LIMIT OF WORK
- CONCRETE PAVEMENT
- CONCRETE PAD
- COBBLE SLOPE
- GRANITE SEATWALL/STAIRS
- ROSA RUGOSA GROUND COVER (3'-6" ON CENTER)
- NEW TREE

SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND
TREE					
PT	9	PINUS THUNBERGII	JAPANESE BLACK PINE	8' HEIGHT	B&B
SHRUB					
RR	145	ROSA RUGOSA	RUGOSA ROSE	1 GAL	CONTAINER

PLANTING NOTES:

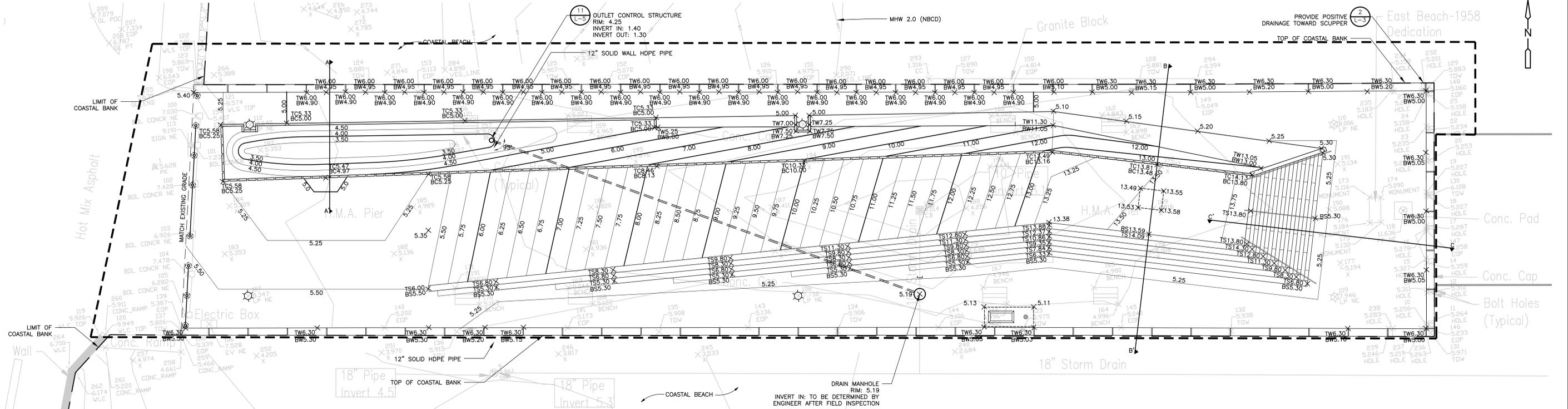
P-1. ALL TREES SHALL BE UNIFORM AND WELL-BRANCHED SPECIMENS.

P-2. ALL PLANTS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION.

P-3. ALL PLANTING BEDS AND SAUCERS SHALL HAVE 3" DEPTH SHREDDED BARK MULCH AS SPECIFIED.

P-4. ALL PLANT LOCATIONS AND BOUNDARIES OF PLANTING AREAS SHALL BE STAKED IN THE FIELD FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

NOTE:
100-YR FLOODPLAIN ELEVATION IS LOCATED AT 15.28 FT NBCD



GRADING AND DRAINAGE PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: N. WATKINS
 DRAWN BY: N. WATKINS
 SHEET CHK'D BY: K. DRAKE
 CROSS CHK'D BY: K. DRAKE
 APPROVED BY: K. DRAKE
 DATE: JUNE 2014



50 Hampshire Street
 Cambridge, MA 02139
 Tel: (617) 452-6000

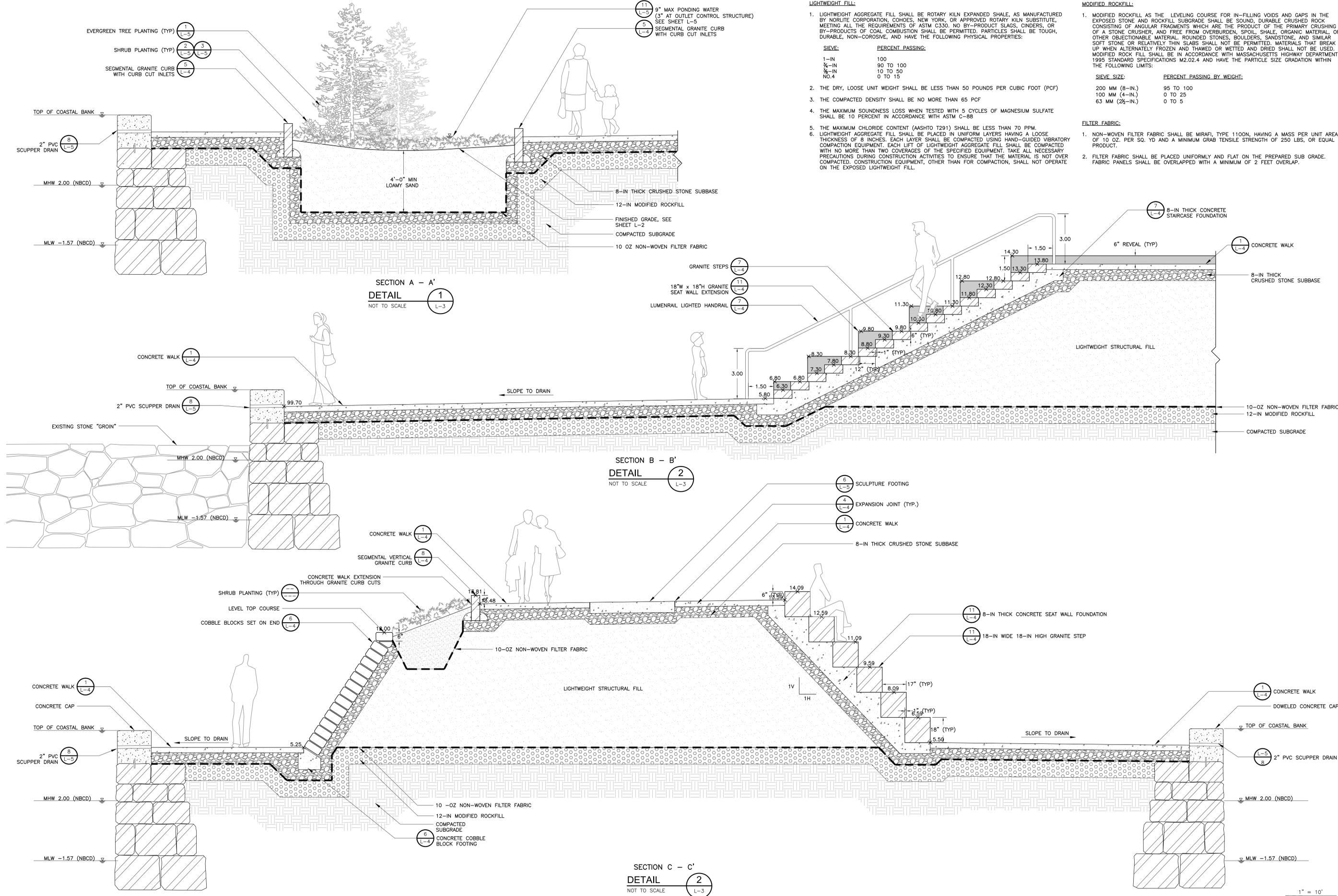
CITY OF NEW BEDFORD MASSACHUSETTS
 FISHERMANS MEMORIAL

LAYOUT, MATERIALS, PLANTING, GRADING, AND DRAINAGE PLAN

PROJECT NO. 0309-101012
 FILE NAME: CSTPL002
 SHEET NO. L-2



NOTE:
100-YR FLOODPLAIN ELEVATION IS LOCATED AT 15.28 FT NBCE



LIGHTWEIGHT FILL:

- LIGHTWEIGHT AGGREGATE FILL SHALL BE ROTARY KILN EXPANDED SHALE, AS MANUFACTURED BY NORLITE CORPORATION, COHOES, NEW YORK, OR APPROVED ROTARY KILN SUBSTITUTE, MEETING ALL THE REQUIREMENTS OF ASTM C330. NO BY-PRODUCTS OF COAL COMBUSTION SHALL BE PERMITTED. PARTICLES SHALL BE TOUGH, DURABLE, NON-CORROSIVE, AND HAVE THE FOLLOWING PHYSICAL PROPERTIES:

SIEVE:	PERCENT PASSING:
1-IN	100
3/4-IN	90 TO 100
3/8-IN	10 TO 50
NO.4	0 TO 15

- THE DRY, LOOSE UNIT WEIGHT SHALL BE LESS THAN 50 POUNDS PER CUBIC FOOT (PCF)
- THE COMPACTED DENSITY SHALL BE NO MORE THAN 65 PCF
- THE MAXIMUM SOUNDNESS LOSS WHEN TESTED WITH 5 CYCLES OF MAGNESIUM SULFATE SHALL BE 10 PERCENT IN ACCORDANCE WITH ASTM C-88
- THE MAXIMUM CHLORIDE CONTENT (AASHTO T291) SHALL BE LESS THAN 70 PPM.
- LIGHTWEIGHT AGGREGATE FILL SHALL BE PLACED IN UNIFORM LAYERS HAVING A LOOSE THICKNESS OF 8 INCHES. EACH LIFT OF LIGHTWEIGHT AGGREGATE FILL SHALL BE COMPACTED WITH NO MORE THAN TWO COVERAGES OF THE SPECIFIED EQUIPMENT. TAKE ALL NECESSARY PRECAUTIONS DURING CONSTRUCTION ACTIVITIES TO ENSURE THAT THE MATERIAL IS NOT OVER COMPACTED. CONSTRUCTION EQUIPMENT, OTHER THAN FOR COMPACTION, SHALL NOT OPERATE ON THE EXPOSED LIGHTWEIGHT FILL.

MODIFIED ROCKFILL:

- MODIFIED ROCKFILL AS THE LEVELING COURSE FOR IN-FILLING VOIDS AND GAPS IN THE EXPOSED STONE AND ROCKFILL SUBGRADE SHALL BE SOUND, DURABLE CRUSHED ROCK CONSISTING OF ANGULAR FRAGMENTS WHICH ARE THE PRODUCT OF THE PRIMARY CRUSHING OF A STONE CRUSHER, AND FREE FROM OVERBURDEN, SPOIL, SHALE, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. ROUNDED STONES, BOULDERS, SANDSTONE, AND SIMILAR SOFT STONE OR RELATIVELY THIN SLABS SHALL NOT BE PERMITTED. MATERIALS THAT BREAK UP WHEN ALTERNATELY FROZEN AND THAWED OR WETTED AND DRIED SHALL NOT BE USED. MODIFIED ROCK FILL SHALL BE IN ACCORDANCE WITH MASSACHUSETTS HIGHWAY DEPARTMENT 1998 STANDARD SPECIFICATIONS M2.02.4 AND HAVE THE PARTICLE SIZE GRADATION WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE:	PERCENT PASSING BY WEIGHT:
200 MM (8-IN.)	95 TO 100
100 MM (4-IN.)	0 TO 25
63 MM (2 1/2-IN.)	0 TO 5

FILTER FABRIC:

- NON-WOVEN FILTER FABRIC SHALL BE MIRAFIL, TYPE 1100N, HAVING A MASS PER UNIT AREA OF 10 OZ. PER SQ. YD AND A MINIMUM GRAB TENSILE STRENGTH OF 250 LBS, OR EQUAL PRODUCT.
- FILTER FABRIC SHALL BE PLACED UNIFORMLY AND FLAT ON THE PREPARED SUB GRADE. FABRIC PANELS SHALL BE OVERLAPPED WITH A MINIMUM OF 2 FEET OVERLAP.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: N. WATKINS
 DRAWN BY: N. WATKINS
 SHEET CHK'D BY: K. DRAKE
 CROSS CHK'D BY: K. DRAKE
 APPROVED BY: K. DRAKE
 DATE: JUNE 2014

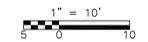


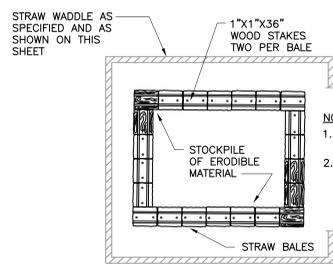
50 Hampshire Street
 Cambridge, MA 02139
 Tel: (617) 452-6000

CITY OF NEW BEDFORD MASSACHUSETTS
 FISHERMANS MEMORIAL

SITE SECTIONS

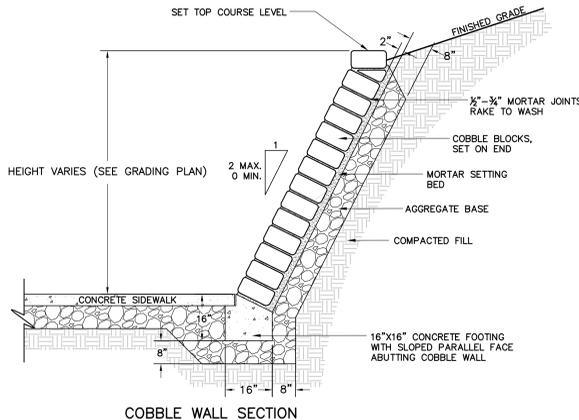
PROJECT NO. 0309-101012
 FILE NAME: CSTPL003
 SHEET NO. L-3



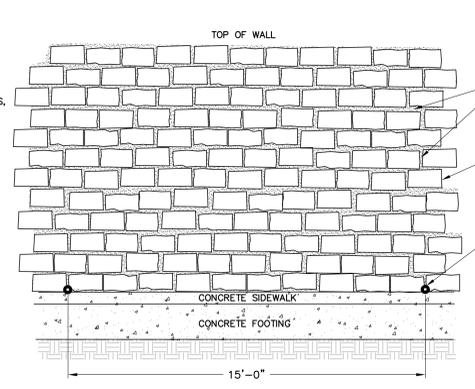


- NOTES:
- SIDE SLOPES OF STOCKPILE SHALL BE A MAXIMUM OF 2:1.
 - LIMIT OF DISTURBANCE SHALL NOT EXTEND BEYOND THE STRAW WADDLE.

STAGING/STORAGE AREA
DETAIL 1
NOT TO SCALE

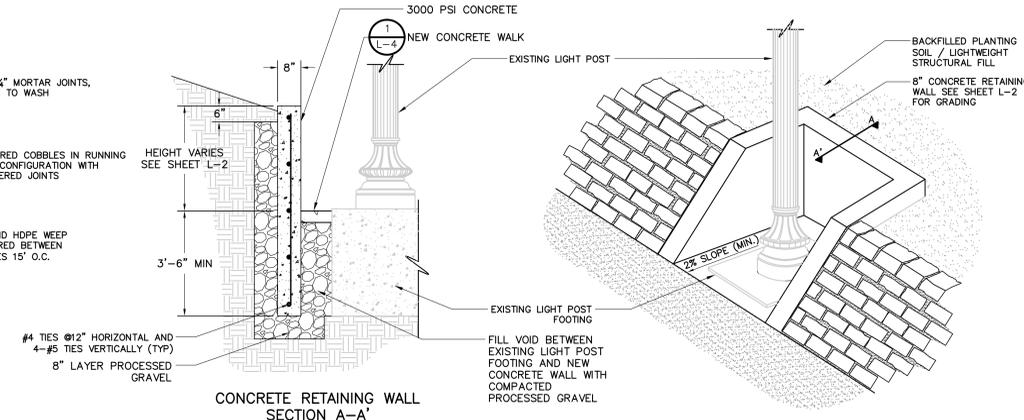


COBBLE WALL SECTION



COBBLE WALL ELEVATION

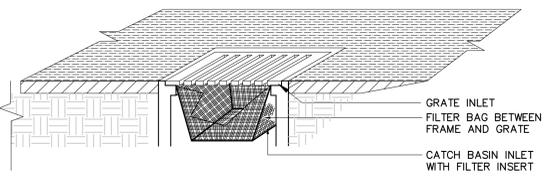
SLOPED COBBLE WALL
DETAIL 5
1"=1'-0"



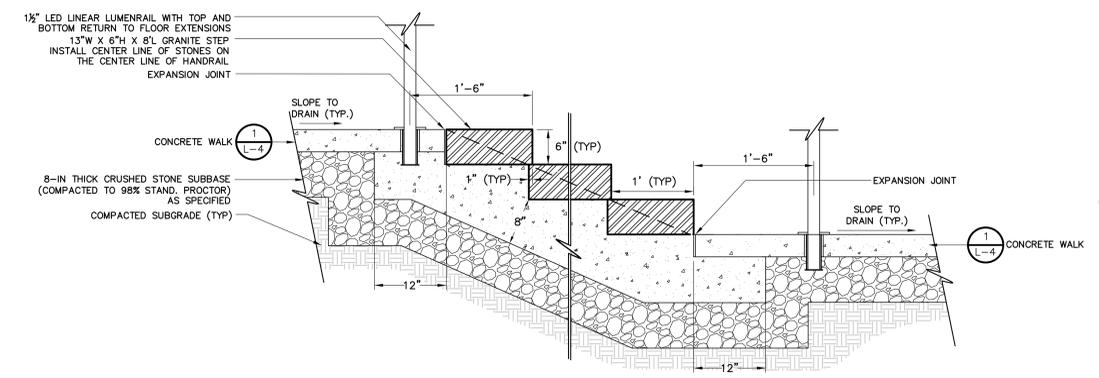
CONCRETE RETAINING WALL SECTION A-A'

NOTE:
1. SEE SHEET L-2 FOR TOP OF WALL AND BACKFILL ELEVATIONS.
2. HEIGHT OF WALL VARIES FROM 3' TO 0' SEE SHEET L-2.

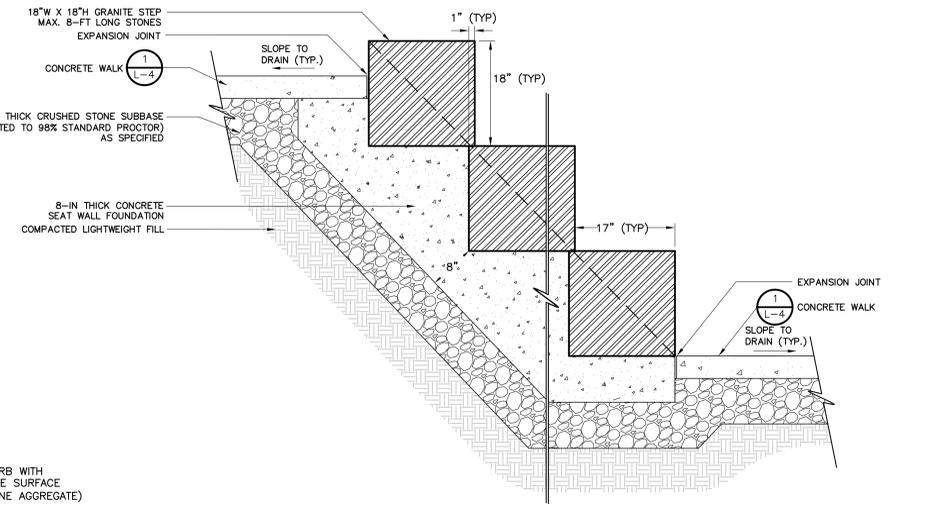
LIGHT POLE ALCOVE IN COBBLE WALL
DETAIL 9
NOT TO SCALE



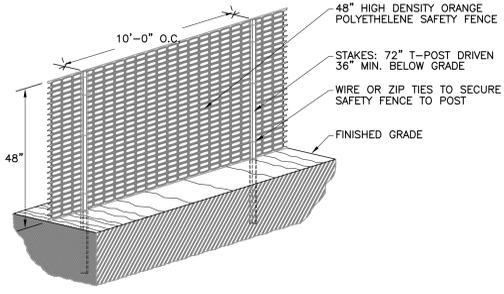
TEMPORARY CATCH BASIN FILTER
DETAIL 2
NOT TO SCALE



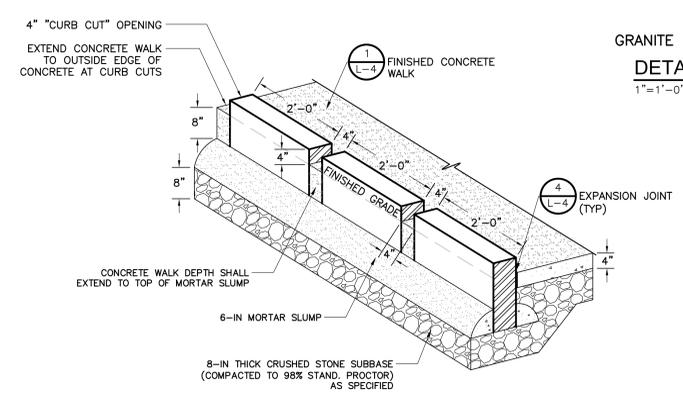
GRANITE STEPS W/HANDRAIL
DETAIL 6
1"=1'-0"



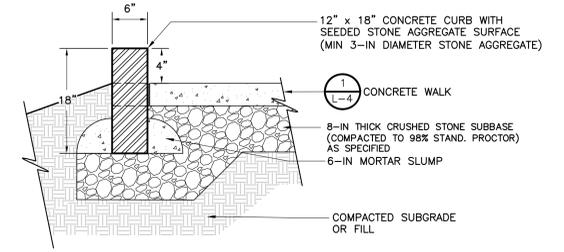
GRANITE SEAT WALL
DETAIL 10
1"=1'-0"



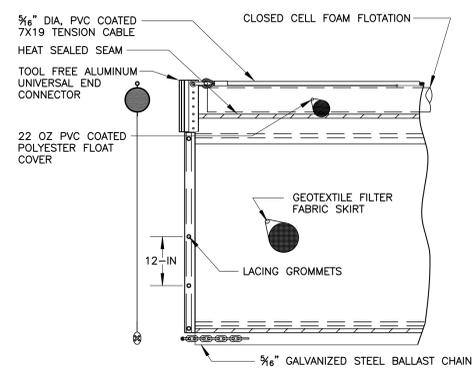
TEMPORARY CONSTRUCTION FENCING
DETAIL 3
NOT TO SCALE



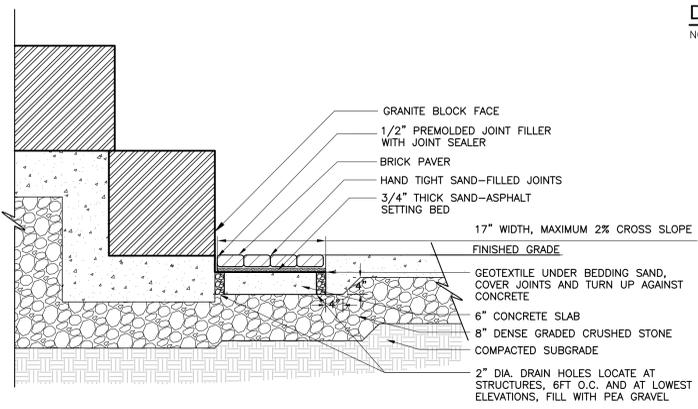
SEGMENTAL GRANITE CURB WITH CURB CUT INLETS
DETAIL 7
NOT TO SCALE



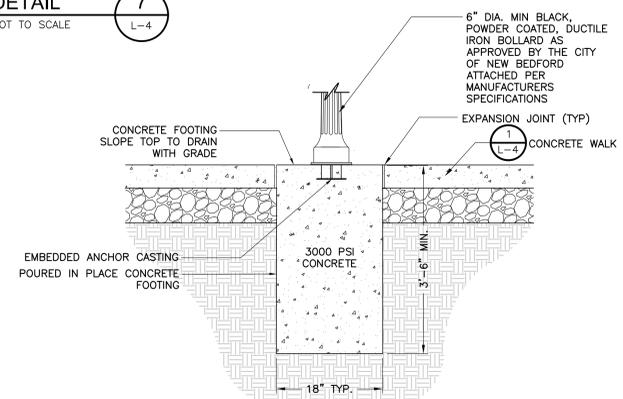
BOLLARD FOOTING
DETAIL 8
NOT TO SCALE



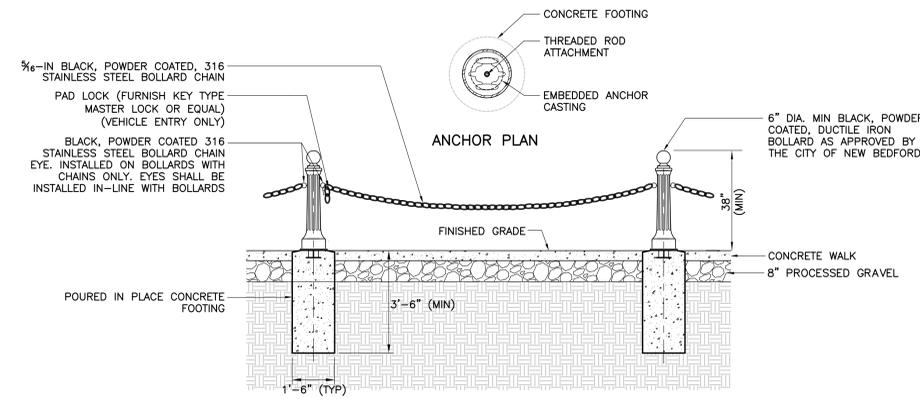
FLOATING TURBIDITY BARRIER
DETAIL 4
NOT TO SCALE



BRICK PAVER BAND
DETAIL 4
NOT TO SCALE



BOLLARD FOOTING
DETAIL 8
NOT TO SCALE



NOTE:
1. AT PAVEMENT EDGE WITH NO CURB SET TOP OF FOOTING 1 IN. ABOVE FINISHED PAVEMENT GRADE AS SPECIFIED.

DECORATIVE BOLLARD AND CHAIN
DETAIL 11
NOT TO SCALE

REV. NO.	DATE	DRWN	CHKD	REMARKS

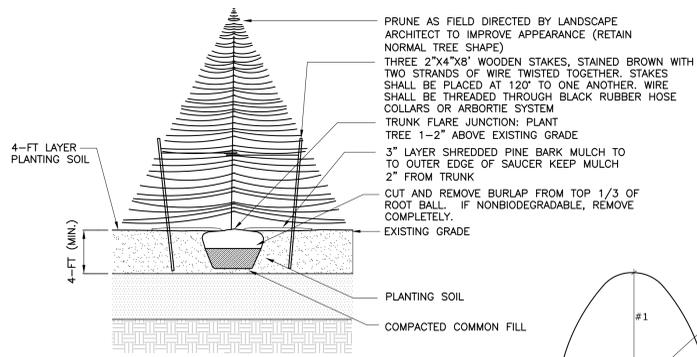
DESIGNED BY: N. WATKINS
DRAWN BY: N. WATKINS
SHEET CHK'D BY: K. DRAKE
CROSS CHK'D BY: K. DRAKE
APPROVED BY: K. DRAKE
DATE: JUNE 2014



CITY OF NEW BEDFORD MASSACHUSETTS
FISHERMANS MEMORIAL

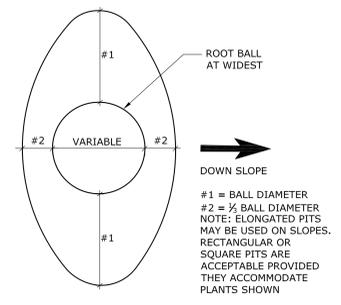
DETAILS I

PROJECT NO. 0309-101012
FILE NAME: CSTPL004
SHEET NO. L-4



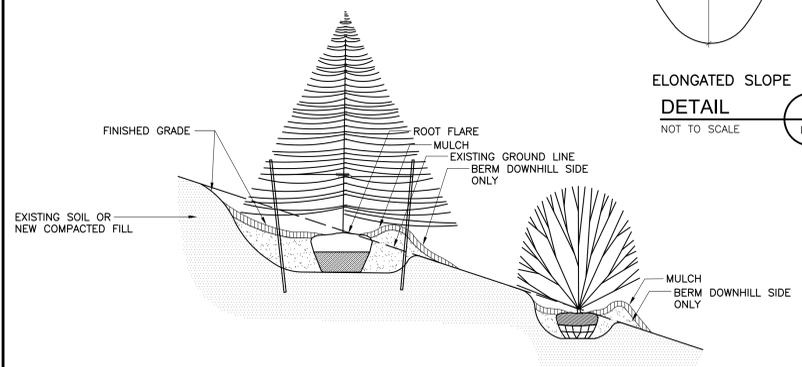
EVERGREEN TREE PLANTING

DETAIL 1
NOT TO SCALE L-5



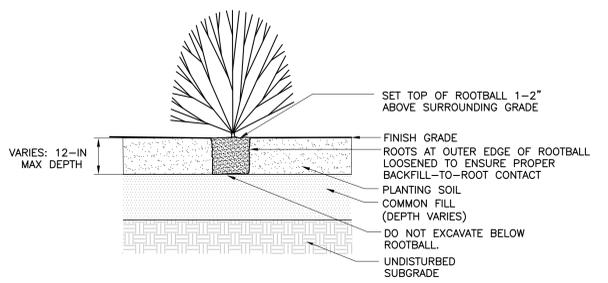
ELONGATED SLOPE PIT

DETAIL 6
NOT TO SCALE L-5



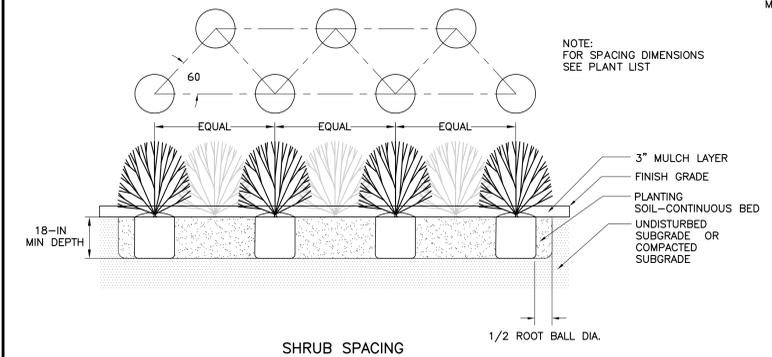
SLOPE PLANTING (3V:1H OR STEEPER)

DETAIL 2
NOT TO SCALE L-5



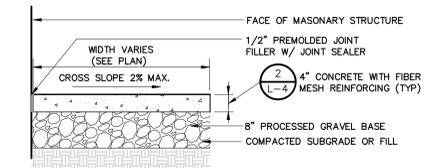
SHRUB PLANTING

DETAIL 3
NOT TO SCALE L-5



SHRUB SPACING

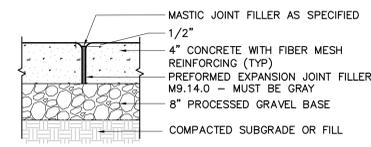
DETAIL 4
NOT TO SCALE L-5



SIDEWALK AT VERTICAL STRUCTURE

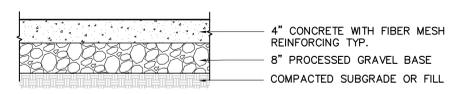
- NOTES:
1. SURFACE SHALL BE SLOPED FOR POSITIVE DRAINAGE.
 2. SURFACE SHALL SLOPE AWAY FROM STRUCTURES.
 3. EXPANSION JOINTS SHALL NOT EXCEED 30' O.C. AND SHALL BE PLACED AT ALL STRUCTURE AND WALL ABUTMENTS. CONTROL JOINTS SHALL NOT EXCEED 36 S.F. SEE SIDEWALK & CONCRETE SCORING PATTERN.
 4. CONCRETE SHALL BE AIR ENTRAINED CLASS D, 4,000 PSI, 3/4", 610

CONCRETE WALK
DETAIL 1
NOT TO SCALE L-4



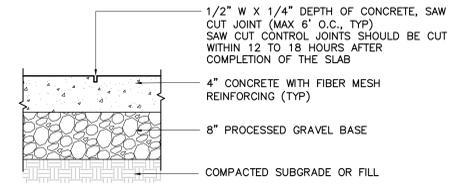
TYPICAL CONCRETE WALK EXPANSION JOINT

DETAIL 4
NOT TO SCALE L-4



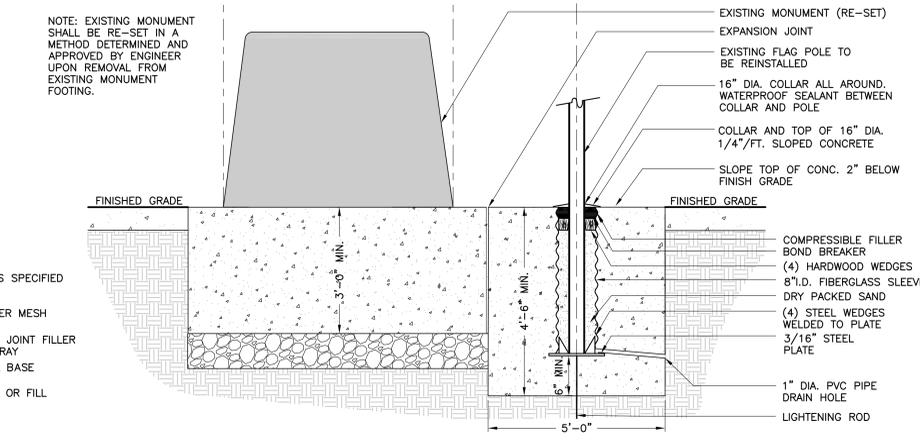
TYPICAL CONCRETE PAVEMENT

DETAIL 2
NOT TO SCALE L-4



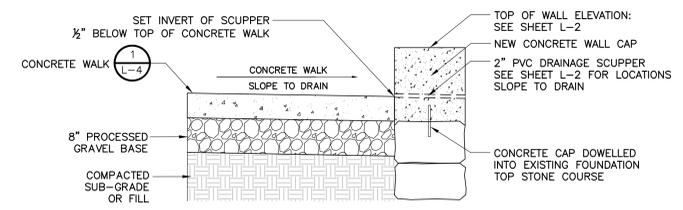
TYPICAL CONCRETE WALK CONTROL JOINT

DETAIL 3
NOT TO SCALE L-4



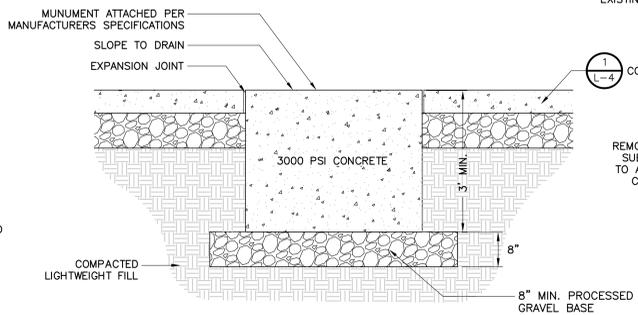
FLAGPOLE/MONUMENT FOOTING

DETAIL 7
NOT TO SCALE L-5



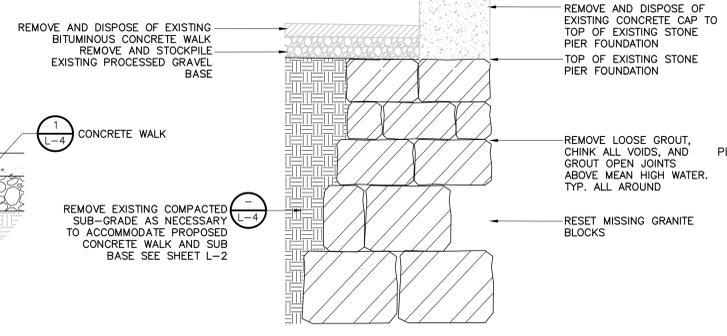
PVC SCUPPER DRAIN

DETAIL 8
NOT TO SCALE L-5



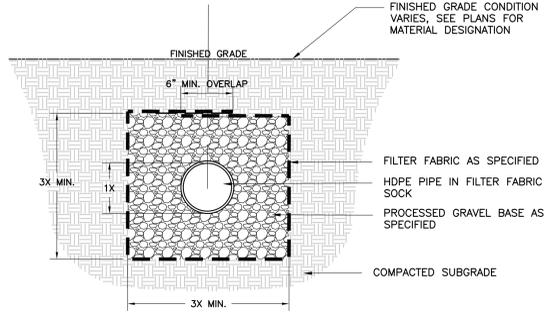
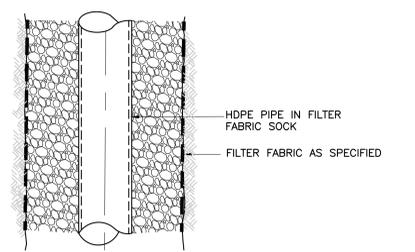
SCULPTURE FOOTING

DETAIL 5
NOT TO SCALE L-5



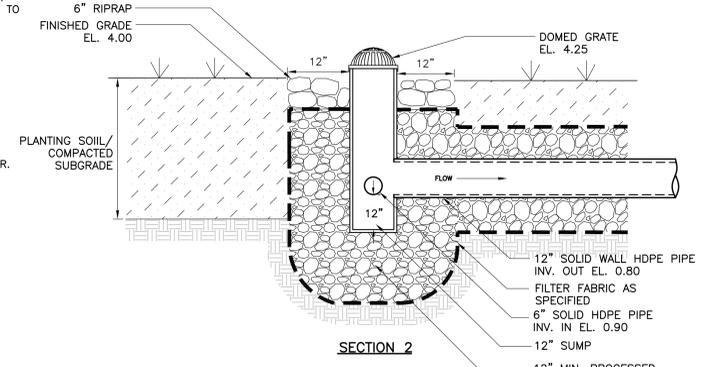
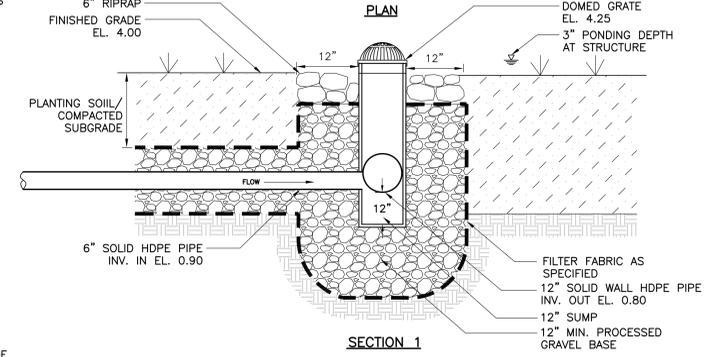
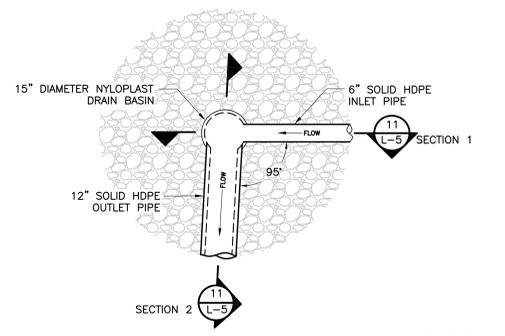
EXISTING PIER REMOVALS AND REPAIRS

DETAIL 9
NOT TO SCALE L-5



PERFORATED PIPE TRENCH

DETAIL 10
NOT TO SCALE L-5



OUTLET CONTROL STRUCTURE

DETAIL 11
NOT TO SCALE L-5

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: N.WATKINS
DRAWN BY: N.WATKINS
SHEET CHK'D BY: K.DRAKE
CROSS CHK'D BY: K.DRAKE
APPROVED BY: K.DRAKE
DATE: JUNE 2014



50 Hampshire Street
Cambridge, MA 02139
Tel: (617) 452-6000

CITY OF NEW BEDFORD MASSACHUSETTS
FISHERMANS MEMORIAL

PROJECT NO. 0309-101012
FILE NAME: CSTPL005
SHEET NO. L-5
DETAILS II