

WATERFRONT ACCESS AND FLOOD PROTECTION DESIGN

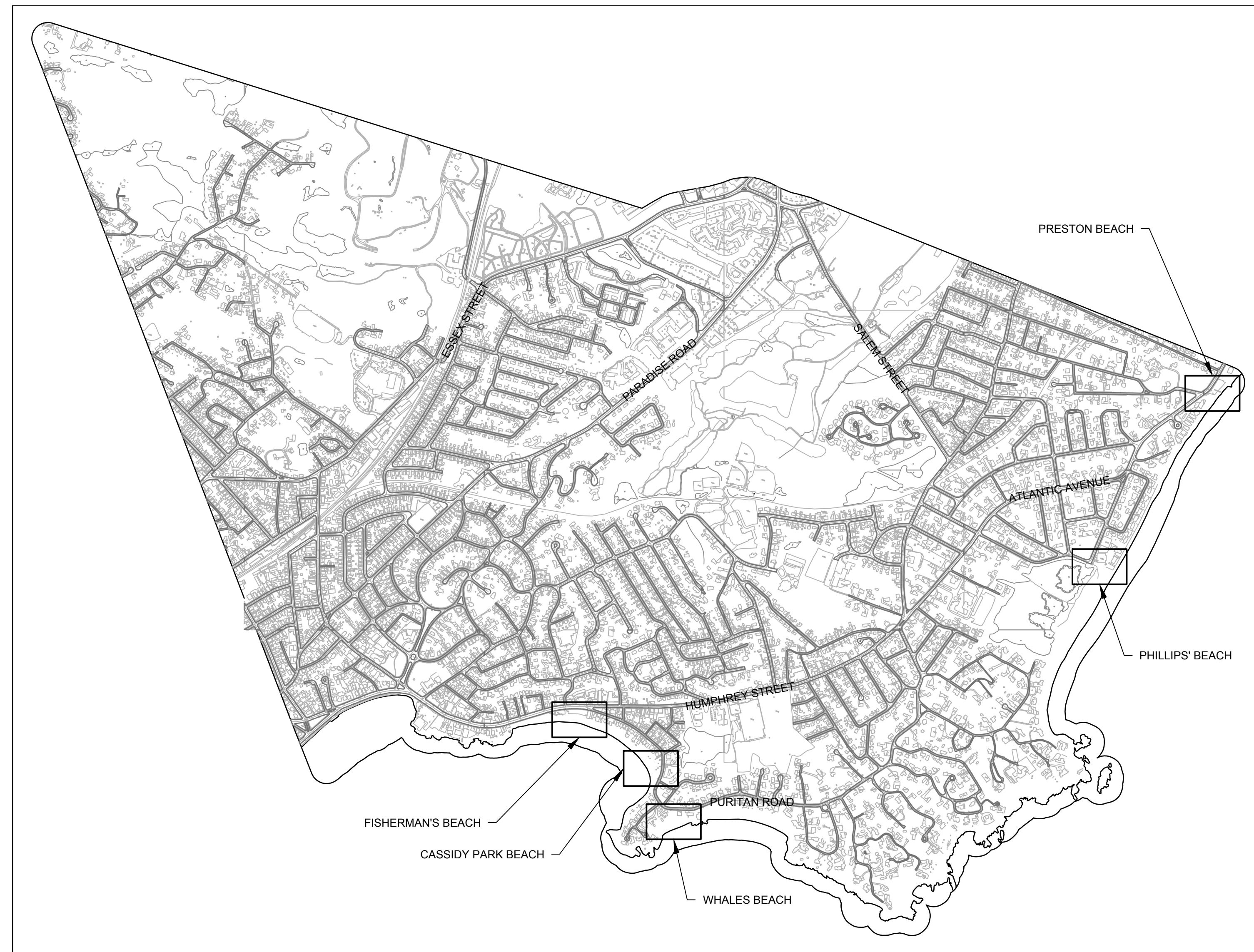
TOWN OF SWAMPSCOTT, MASSACHUSETTS

90% DESIGN

JUNE 2017

DEPARTMENT OF PUBLIC WORKS
 GINO CRESTA JR., DIRECTOR
 SEAN LANNON, ASSISTANT TOWN ENGINEER

PLANNING DEPARTMENT
 PETER KANE, TOWN PLANNER






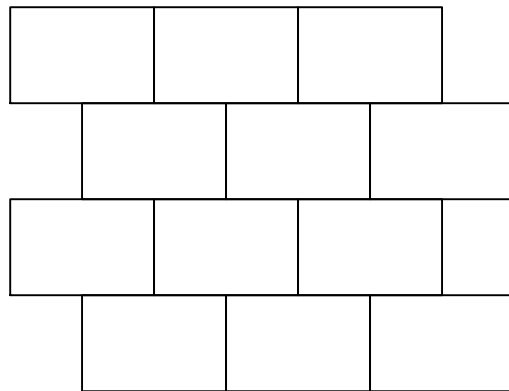
LOCUS PLAN
 SCALE: 1"=1000'

Sheet Number	Sheet Title
-	COVER
G-1	GENERAL NOTES
G-2	GENERAL SITE FEATURES
C-1	FISHERMAN'S BEACH EXISTING CONDITIONS
C-2	FISHERMAN'S BEACH SITE PREPARATION AND DEMOLITION PLAN
C-3	FISHERMAN'S BEACH SITE LAYOUT PLAN
C-4	FISHERMAN'S BEACH GRADING PLAN
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C-11	WHALES BEACH EXISTING CONDITIONS
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CAD FILE: G:\clients\swampscott\2017\2630 - Waterfront Access And Flood Protection Design\Drawings\Production Drawings\General Notes.dwg LAYOUT: GENERAL SITE FEATURES PLOTTED: 06/20/17 12:28 PM BY: alex.silveri

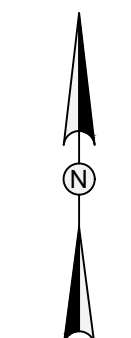
FEATURE	PICTURE	DESCRIPTION	MANUFACTURER	MODEL	FINISH AND COLOR	LOCATION AND QUANTITY
GARBAGE CAN		LEXINGTON RECEPTACLE - 36 GALLON RECEPTACLE, LINER, AND BONNET	NEW ENGLAND RECREATION (ULTRASITE)	LX-36RB	BLACK ULTRACOAT THERMOPLASTIC	FISHERMAN'S BEACH - 0 CASSIDY PARK - 0 WHALES BEACH - 1 PHILLIPS' BEACH - 3 PRESTON BEACH - 2
BIKE PARKING		SECURE BIKE PARKING WITHR IN GROUND MOUNT. SEE NOTES ON SHEET G-1 FOR FOOTING REQUIREMENTS	NEW ENGLAND RECREATION (ULTRASITE)	5040S	BLACK ULTRACOAT THERMOPLASTIC	FISHERMAN'S BEACH - 0 CASSIDY PARK - 1 WHALES BEACH - 2 PHILLIPS' BEACH - 5 PRESTON BEACH - 2
SHOWER		STEEL PEDESTAL SIDE ACCESS OUTDOOR BODY SHOWER, FOOTWASH, AND ADA HEIGHT SHOWER - WITH MOUNTING PLATE, IN GROUND FROST PROOF VALVE. SEE NOTES ON SHEET G-1 FOR MOUNTIN REQUIREMENTS.	PARK N POOL CORP.	35SH-68300SS	STAINLESS STEEL CLEAR COAT	FISHERMAN'S BEACH - 0 CASSIDY PARK - 0 WHALES BEACH - 0 PHILLIPS' BEACH - 1 PRESTON BEACH - 0
PRESSED CONCRETE PLAZA		12" X 18" RUNNING BOND PRESSED CONCRETE	SEE SPECIFICATION SECTION 02521	N/A	BY OWNER	FISHERMAN'S BEACH - 1 CASSIDY PARK - 0 WHALES BEACH - 1 PHILLIPS' BEACH - 1 PRESTON BEACH - 1



215 First Street, Suite 320
Cambridge, MA 02142
Phone: 617-497-7800
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REVISIONS

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THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING
0 1"
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN



Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

GENERAL SITE FEATURES

PROJECT NO.	20172630
ISSUE DATE	06/09/2017
CURRENT REVISION	
DESIGNED BY	CD
DRAWN BY	CD
CHECKED BY	NB
APPROVED BY	MT

G-2

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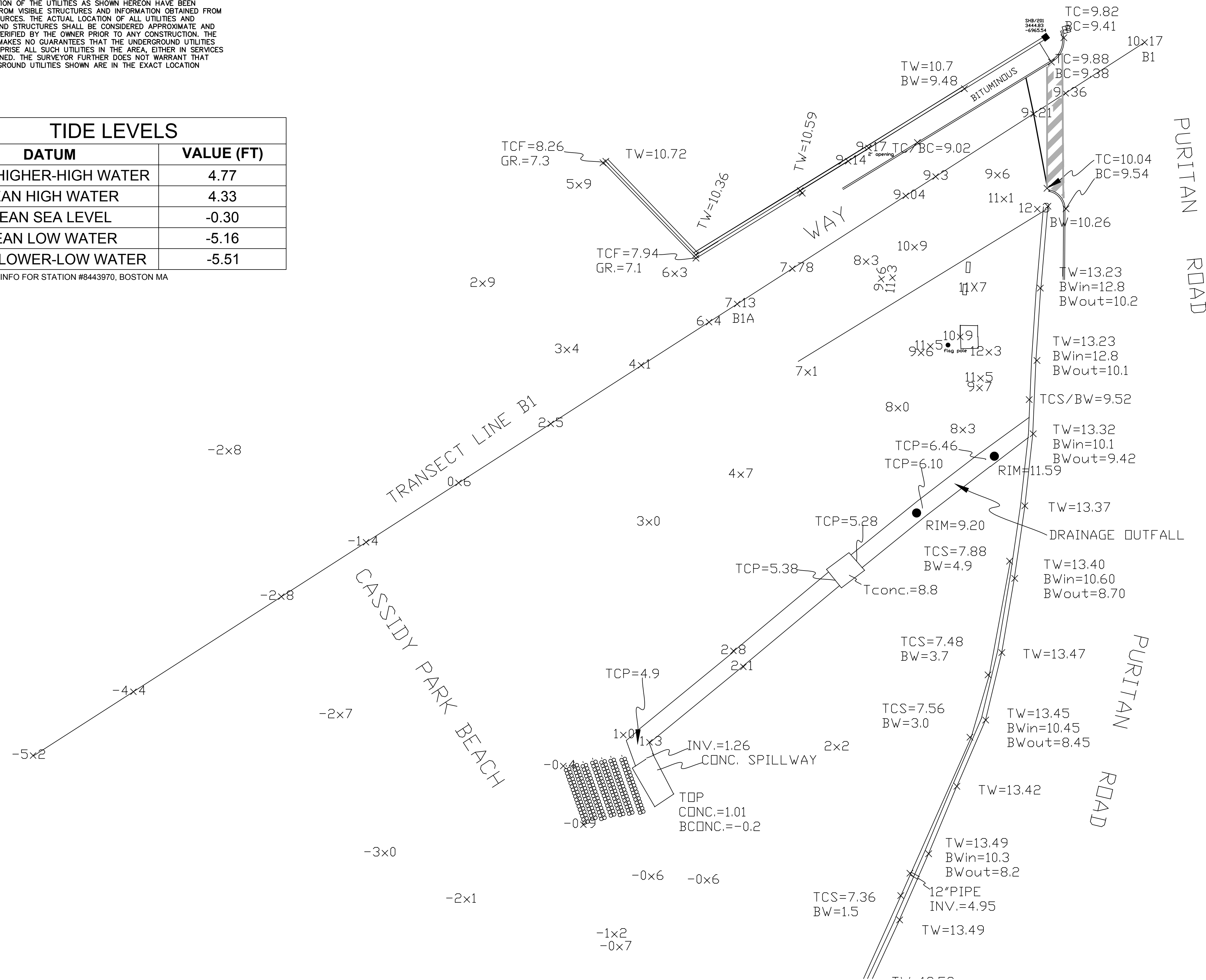
- NOTES:**
1. THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY PARSONS AND FAIA, INC IN JANUARY 2017.
 2. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NAD83.
 3. THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD88.
 4. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON LABELED WITH AN (R) ARE FROM RECORD DOCUMENTS. ADDITIONAL FIELD INVESTIGATION WILL BE REQUIRED BY OTHERS TO DETERMINE THE ACTUAL PIPE SIZE(S) AND TYPE(S).

UTILITY STATEMENTS

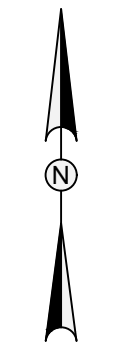
THE LOCATION OF THE UTILITIES AS SHOWN HEREON HAVE BEEN COMPILED FROM VISIBLE STRUCTURES AND INFORMATION OBTAINED FROM VARIOUS SOURCES. THE ACTUAL LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHALL BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER PRIOR TO ANY CONSTRUCTION. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICES OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.

TIDE LEVELS	
DATUM	VALUE (FT)
MEAN HIGHER-HIGH WATER	4.77
MEAN HIGH WATER	4.33
MEAN SEA LEVEL	-0.30
MEAN LOW WATER	-5.16
MEAN LOWER-LOW WATER	-5.51

NOTE: DATUM INFO FOR STATION #8443970, BOSTON MA



REV	DESCRIPTION	DSN DWN	CHK APP	DATE

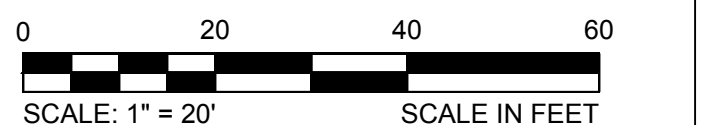


SCALE VERIFICATION

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WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN

CASSIDY PARK BEACH
SWAMPSCOTT, MA 01907



Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

CASSIDY PARK BEACH EXISTING CONDITIONS

PROJECT NO.	20172630
ISSUE DATE	06/09/2017
CURRENT REVISION	
DESIGNED BY	CD
DRAWN BY	CD
CHECKED BY	NB
APPROVED BY	MT

C-6

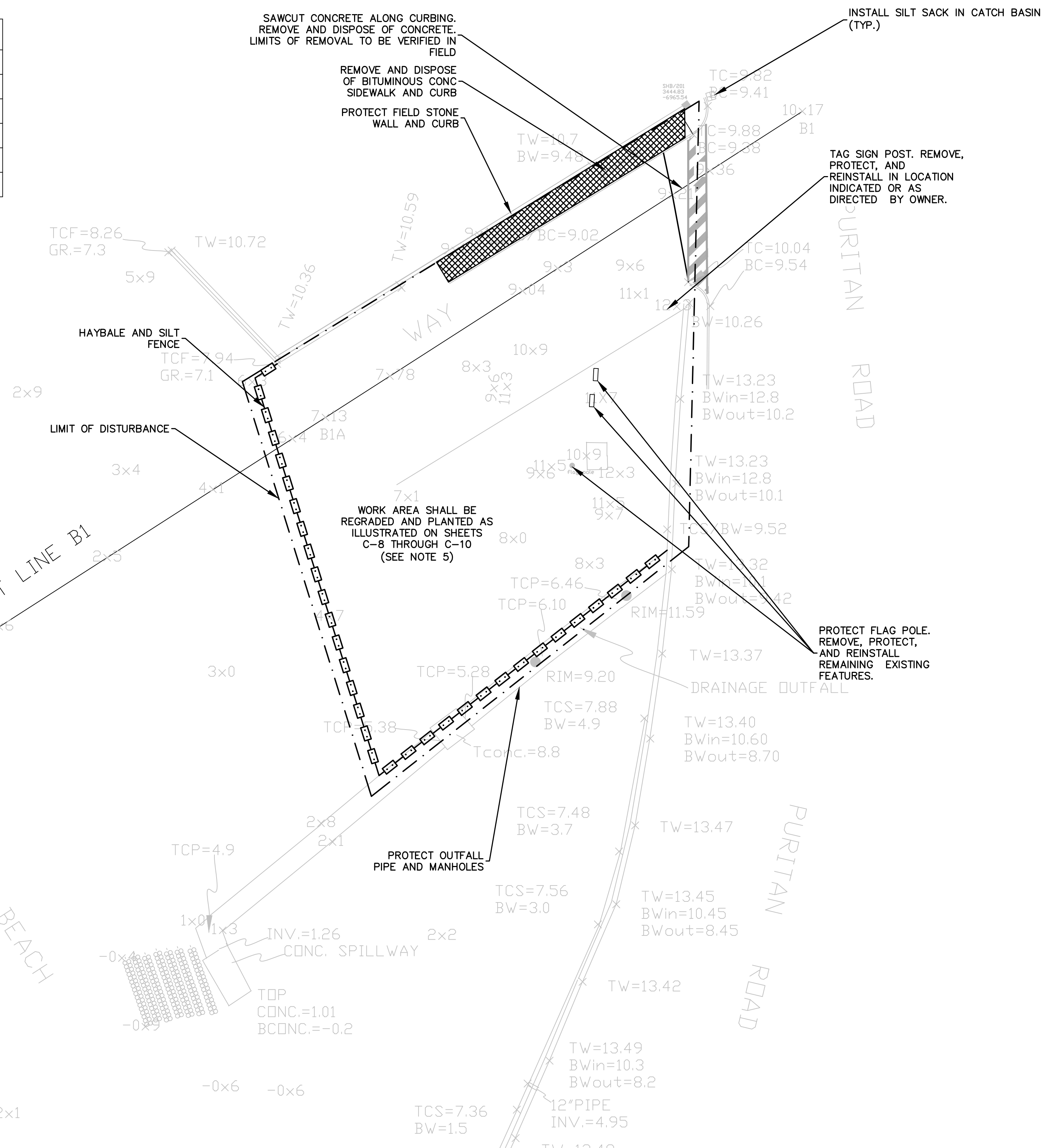
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REV	DESCRIPTION	DSN DWN	CHK APP	DATE

SCALE VERIFICATION
THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

SCALE: 1" = 20'

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN

CASSIDY PARK BEACH SWAMPSCOTT, MA 01907

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22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

CASSIDY PARK BEACH SITE PREPARATION AND DEMOLITION PLAN

PROJECT NO.	20172630
ISSUE DATE	06/09/2017
CURRENT REVISION	
DESIGNED BY	CD
DRAWN BY	CD
CHECKED BY	NB
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C-7

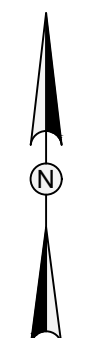
CAD FILE: G:\clients\swampscott\1603172630 - Waterfront Access And Flood Protection Design\Drawings\Production Drawings\Cassidy Park Beach Site Prep And Demolition.dwg LAYOUT: CASSIDY PARK BEACH SITE PREPARATION AND DEMOLITION PLAN PLOTTED: 6/9/2017 12:28 PM BY: alex.sheri

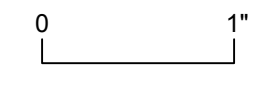
SITE PREPARATION NOTES

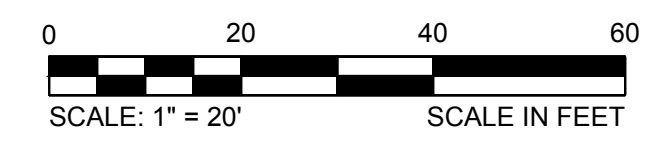
- CONSTRUCT WHEEL WASH PAD AT CONSTRUCTION EXIT(S).
- SECURE THE SITE WITH TEMPORARY CONSTRUCTION FENCE PRIOR TO WORK.
- INSTALL/MAINTAIN SILT SACK FOR ALL EXISTING CATCH BASINS ON PUBLIC ROADS AROUND THE SITE PERIMETER.
- CONTRACTOR SHALL REMOVE ALL SIGNAGE AND TRASH CANS TEMPORARILY OFF-SITE AND REPLACE AFTER CONSTRUCTION HAS BEEN COMPLETED. CONTRACTOR TO COORDINATE WITH TOWN OF SWAMPSCOTT.
- EXISTING BEACH GRASS SHALL BE REMOVED AND DISPOSED AS PART OF SITE PREPARATION.
- CONTRACTOR SHALL PHOTOGRAPH AND SURVEY LOCATIONS OF EXISTING PAINT STRIPING PRIOR TO DEMOLITION.

REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE



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WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN

CASSIDY PARK BEACH
SWAMPSCOTT, MA 01907

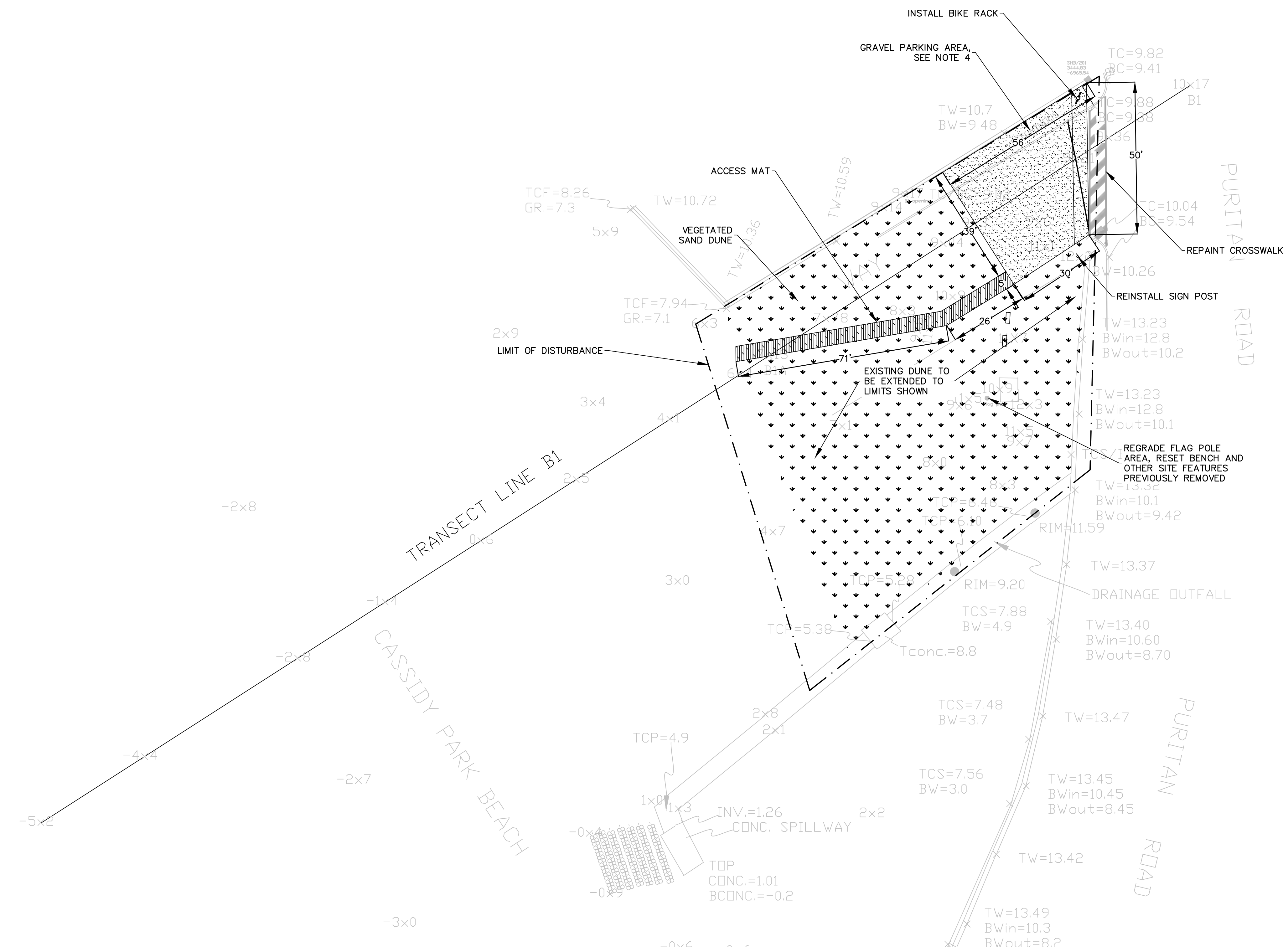


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CASSIDY PARK BEACH SITE LAYOUT PLAN

PROJECT NO.	20172630	C-8
ISSUE DATE	06/09/2017	
CURRENT REVISION		
DESIGNED BY	CD	
DRAWN BY	CD	
CHECKED BY	NB	
APPROVED BY	MT	
SHEET		11 of 27

CAD FILE: G:\clients\swampscott\20172630 - Waterfront Access And Flood Protection Design\Drawings\Production Drawings\Cassidy Park Beach Site Layout.dwg LAYOUT: CASSIDY PARK BEACH SITE LAYOUT PLAN PLOTTED: 06/09/2017 12:28 PM BY: alex.silver



TIDE LEVELS	
DATUM	VALUE (FT)
MEAN HIGHER-HIGH WATER	4.77
MEAN HIGH WATER	4.33
MEAN SEA LEVEL	-0.30
MEAN LOW WATER	-5.16
MEAN LOWER-LOW WATER	-5.51

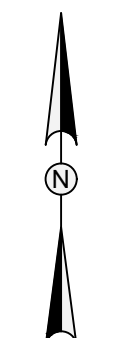
NOTE: DATUM INFO FOR STATION #8443970, BOSTON MA

- SITE LAYOUT NOTES**
- SEE SHEETS C-9 AND C-10 FOR PROPOSED GRADING.
 - BLEND SAND DUNE INTO EXISTING BEACH.
 - ACCESS MAT SHALL BE INSTALLED AND ANCHORED PER MANUFACTURERS REQUIREMENTS.
 - EXISTING BITUMINOUS CONCRETE SIDEWALK AND CURB WITHIN PROPOSED GRAVEL PARKING AREA TO BE REMOVED AND DISPOSED OF. FURNISH AND INSTALL 6" LAYER OF COMPACTED GRAVEL ACCORDING TO SPECIFICATION 02200.

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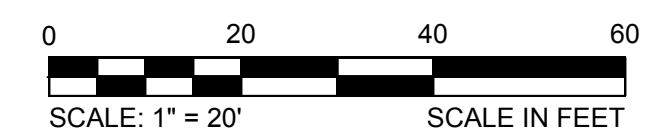
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CASSIDY PARK BEACH
SWAMPSCOTT, MA 01907



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CASSIDY PARK BEACH GRADING PLAN

PROJECT NO.	20172630
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C-9



TIDE LEVELS	
DATUM	VALUE (FT)
MEAN HIGHER-HIGH WATER	4.77
MEAN HIGH WATER	4.33
MEAN SEA LEVEL	-0.30
MEAN LOW WATER	-5.16
MEAN LOWER-LOW WATER	-5.51

NOTE: DATUM INFO FOR STATION #8443970, BOSTON MA

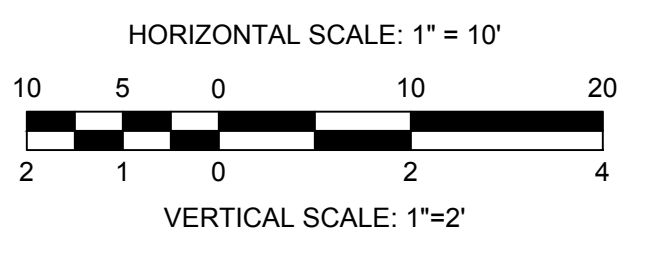
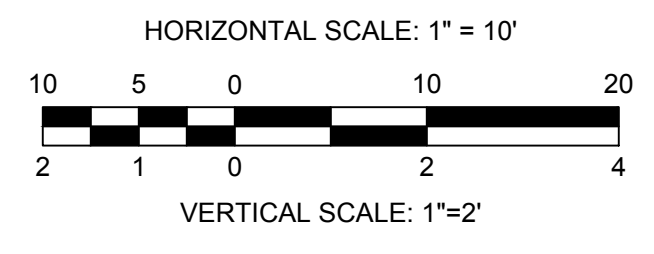
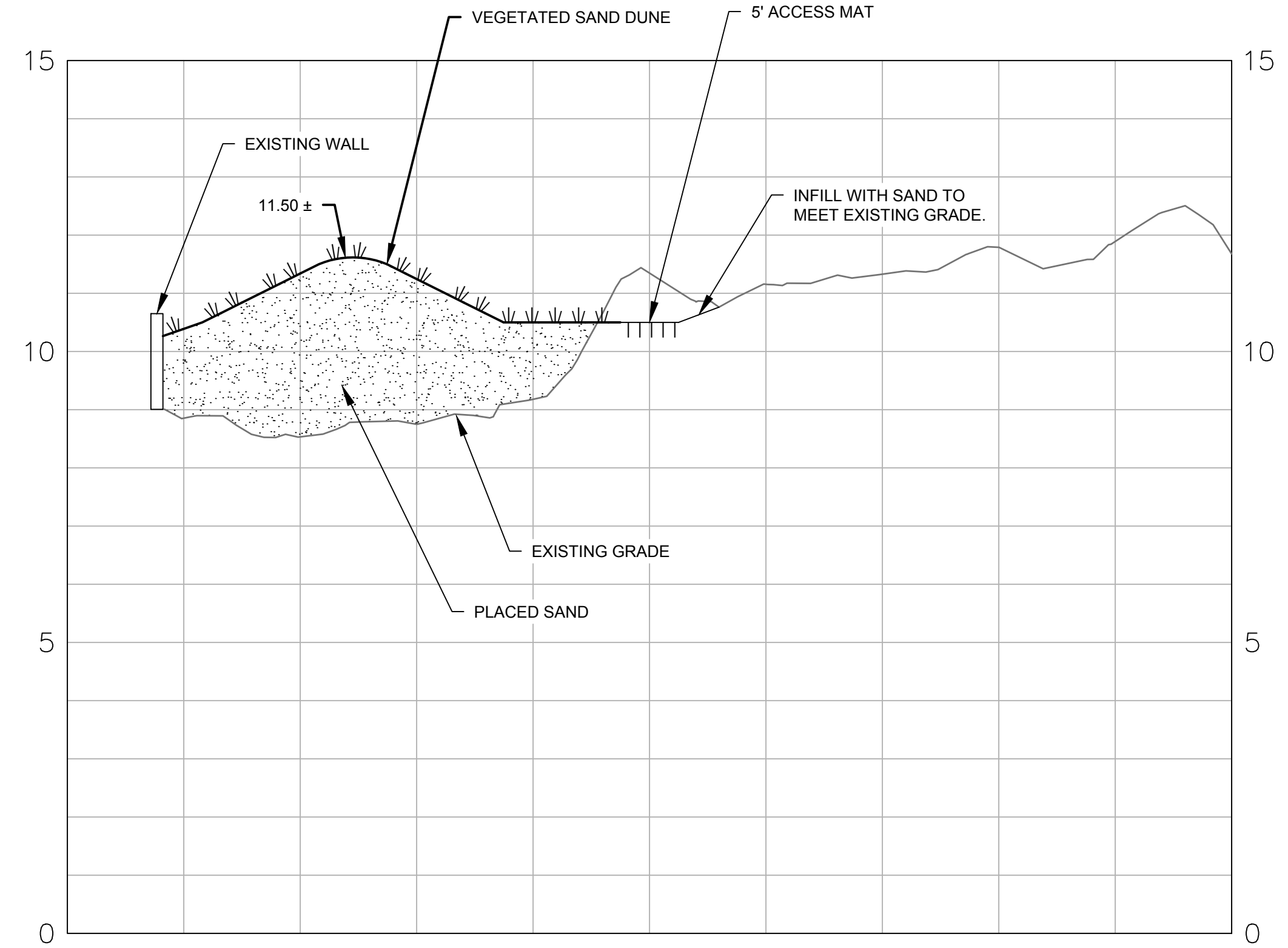
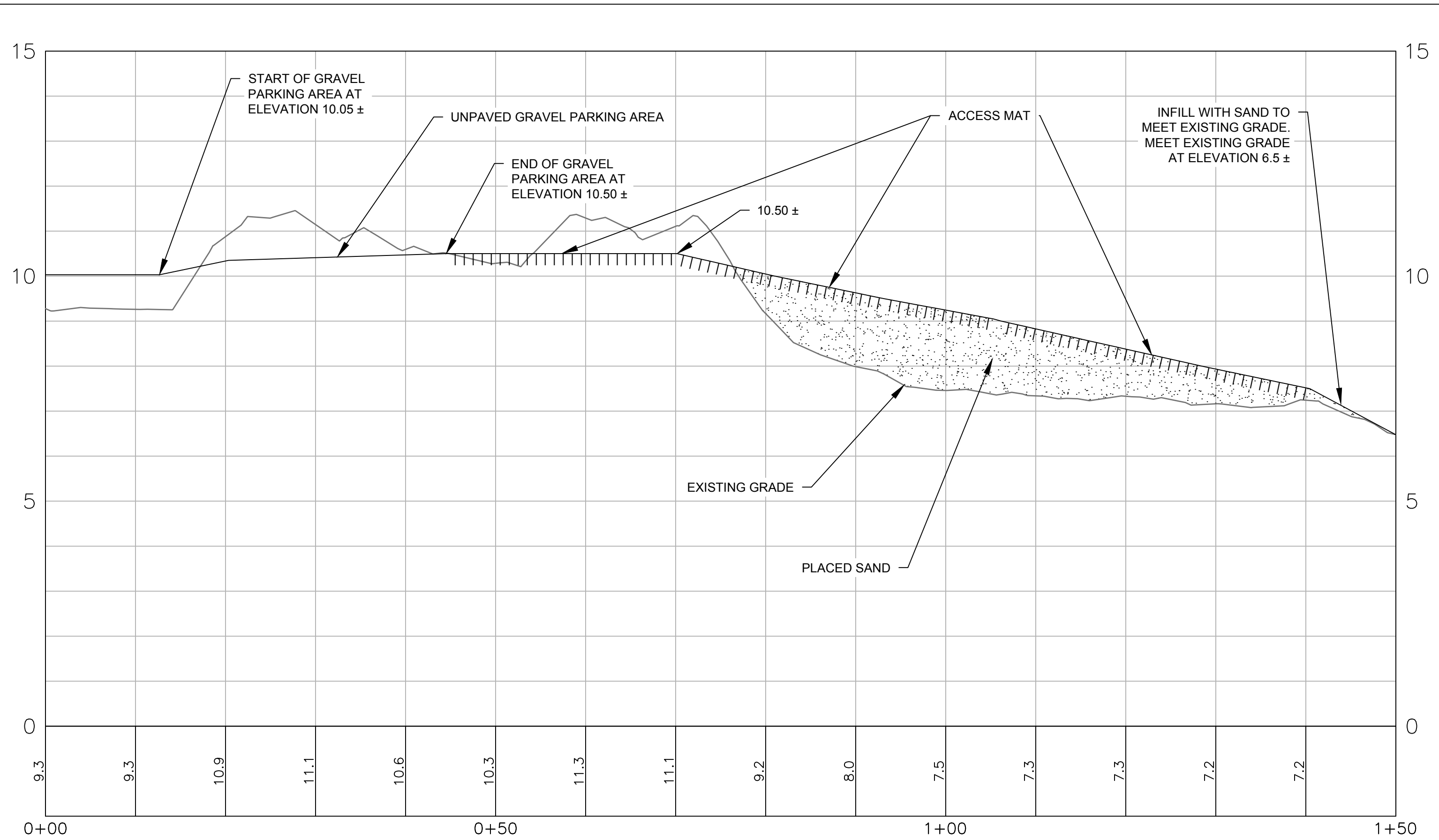
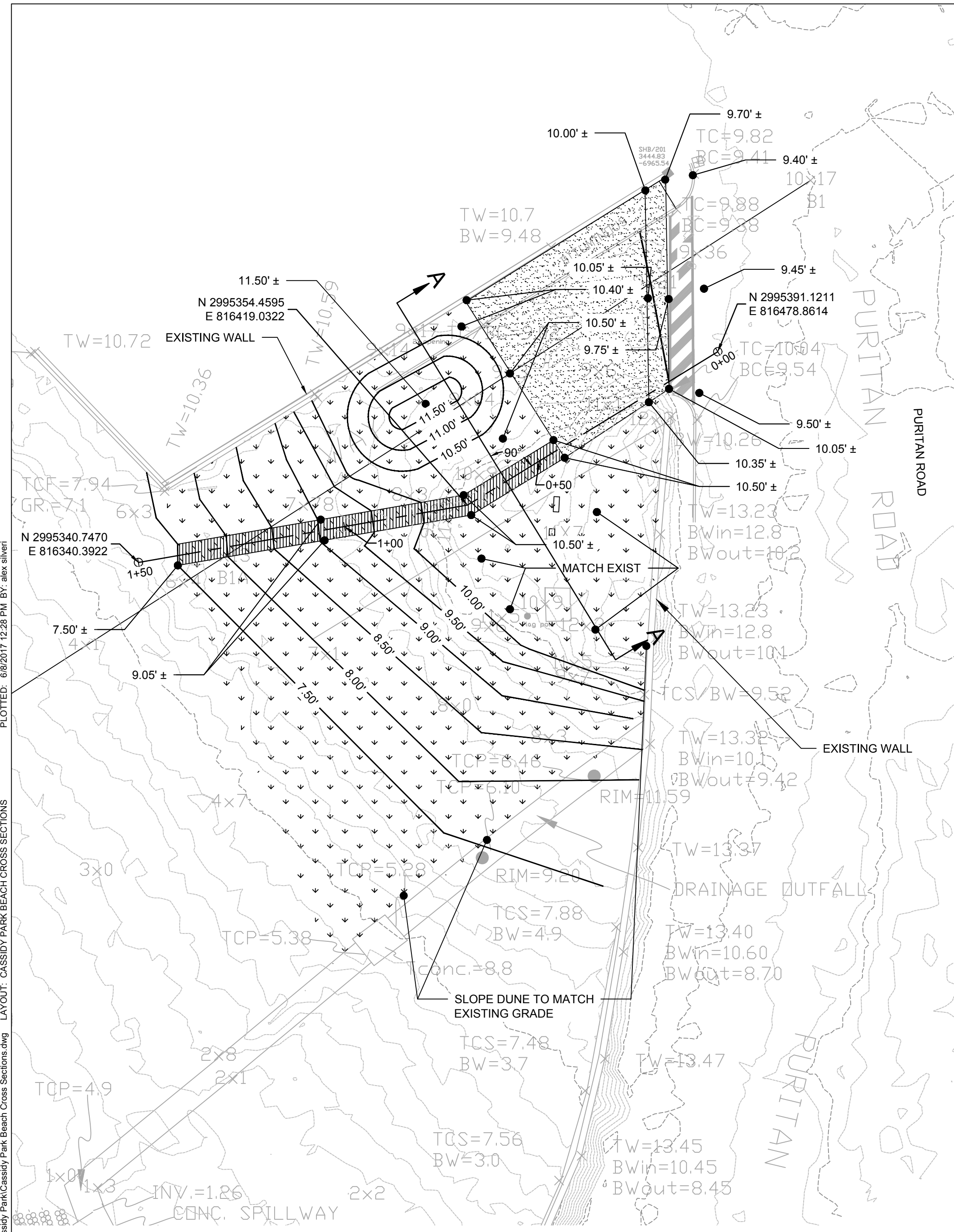
GRADING NOTES

- CONTRACTOR SHALL PLACE COMPATIBLE BEACH SAND, WHERE INDICATED, TO BLEND NEW WORK INTO EXISTING BEACH.
- ALL CROSS-SLOPES SHALL NOT EXCEED 1.5%. ALL WALKING SURFACE SLOPES SHALL NOT EXCEED 4.5%.

CAD FILE: G:\clients\swampscott\20172630 - Waterfront Access And Flood Protection Design\Drawings\Production Drawings\Cassidy Park Beach Grading.dwg LAYOUT: CASSIDY PARK BEACH GRADING PLAN PLOTTED: 6/8/2017 12:28 PM BY: almr_silver

REVISIONS

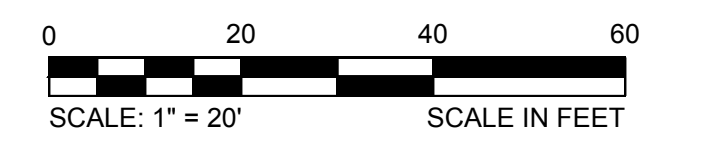
REV	DESCRIPTION	DSN DWN	CHK APP	DATE



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CASSIDY PARK BEACH
SWAMPSCOTT, MA 01907



Town of Swampscott
22 Monument Ave.
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CASSIDY PARK BEACH CROSS SECTIONS

PROJECT NO.	20172630
ISSUE DATE	06/09/2017
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CHECKED BY	NB
APPROVED BY	MT

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JUNE 9, 2017

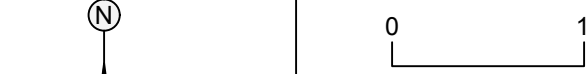
C-10

CAD FILE: G:\clients\swampscott\20172630 - Waterfront Access And Flood Protection Design\Drawings\Production Drawings\Cassidy Park Beach Cross Sections.dwg LAYOUT: CASSIDY PARK BEACH CROSS SECTIONS PLOTTED: 8/8/2017 12:28 PM BY: alex silvert

REV	DESCRIPTION	DSN DWN	CHK APP	DATE

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0 20 40 60
SCALE: 1" = 20' SCALE IN FEET

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WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907



Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

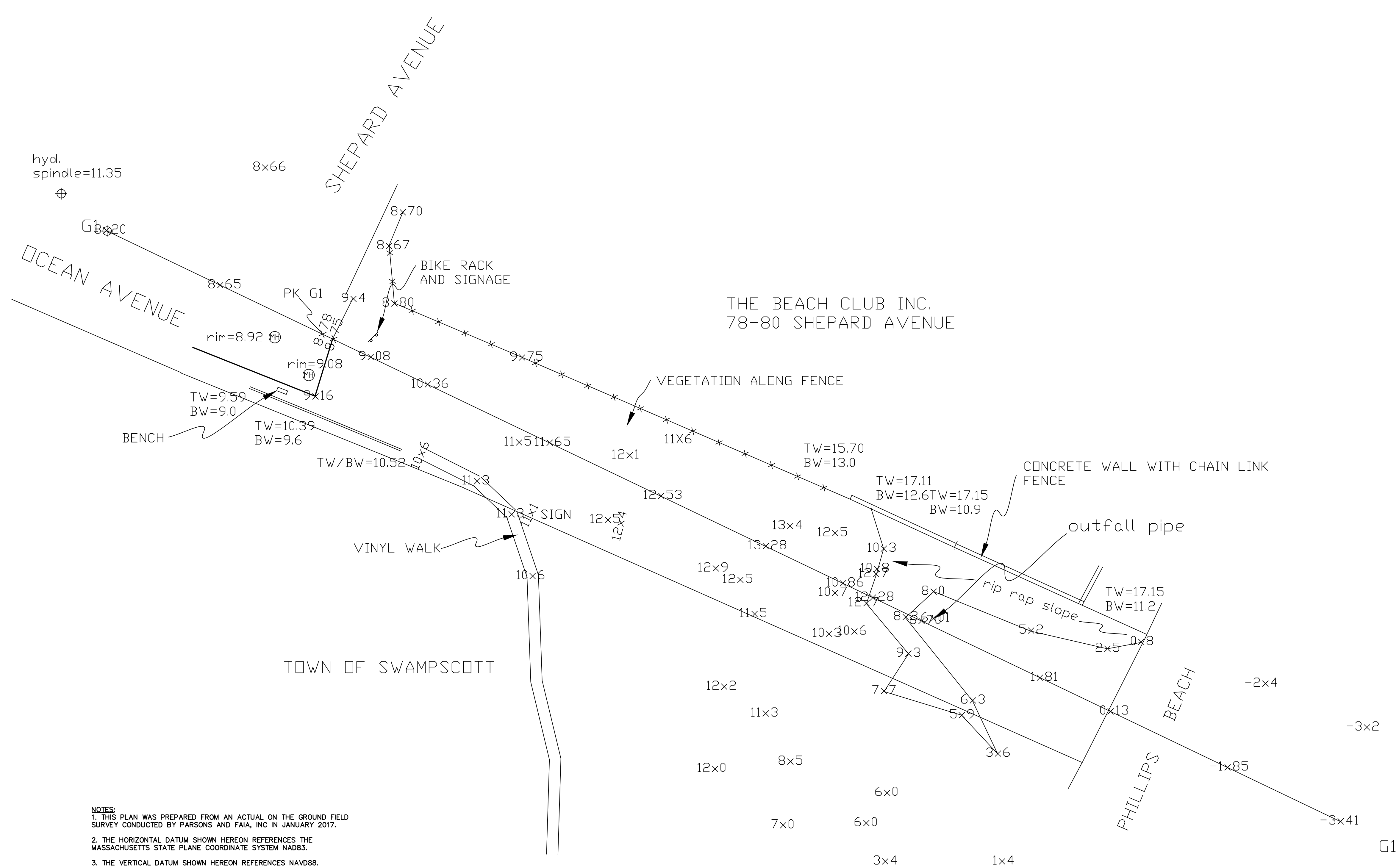
PHILLIPS' BEACH EXISTING CONDITIONS

PROJECT NO.	20172630
ISSUE DATE	06/09/2017
CURRENT REVISION	
DESIGNED BY	CD
DRAWN BY	CD
CHECKED BY	NB
APPROVED BY	MT

SHEET 19 of 27

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CAD FILE: G:_clients\swampscott\2017\2630 - Waterfront Access And Flood Protection Design\Drawings\Survey Files\Electing Conditions\25% Plans\Phillips Beach.dwg LAYOUT: PHILLIPS' BEACH EXISTING CONDITIONS PLOTTED: 08/02/17 12:20 PM BY: alex silver



NOTES:

- THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY PARSONS AND FAIA, INC IN JANUARY 2017.
- THE HORIZONTAL DATUM SHOWN HEREON REFERENCES THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NAD83.
- THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD88.
- THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON LABELED WITH AN (R) ARE FROM RECORD DOCUMENTS. ADDITIONAL FIELD INVESTIGATION WILL BE REQUIRED BY OTHERS TO DETERMINE THE ACTUAL PIPE SIZE(S) AND TYPE(S).

UTILITY STATEMENTS

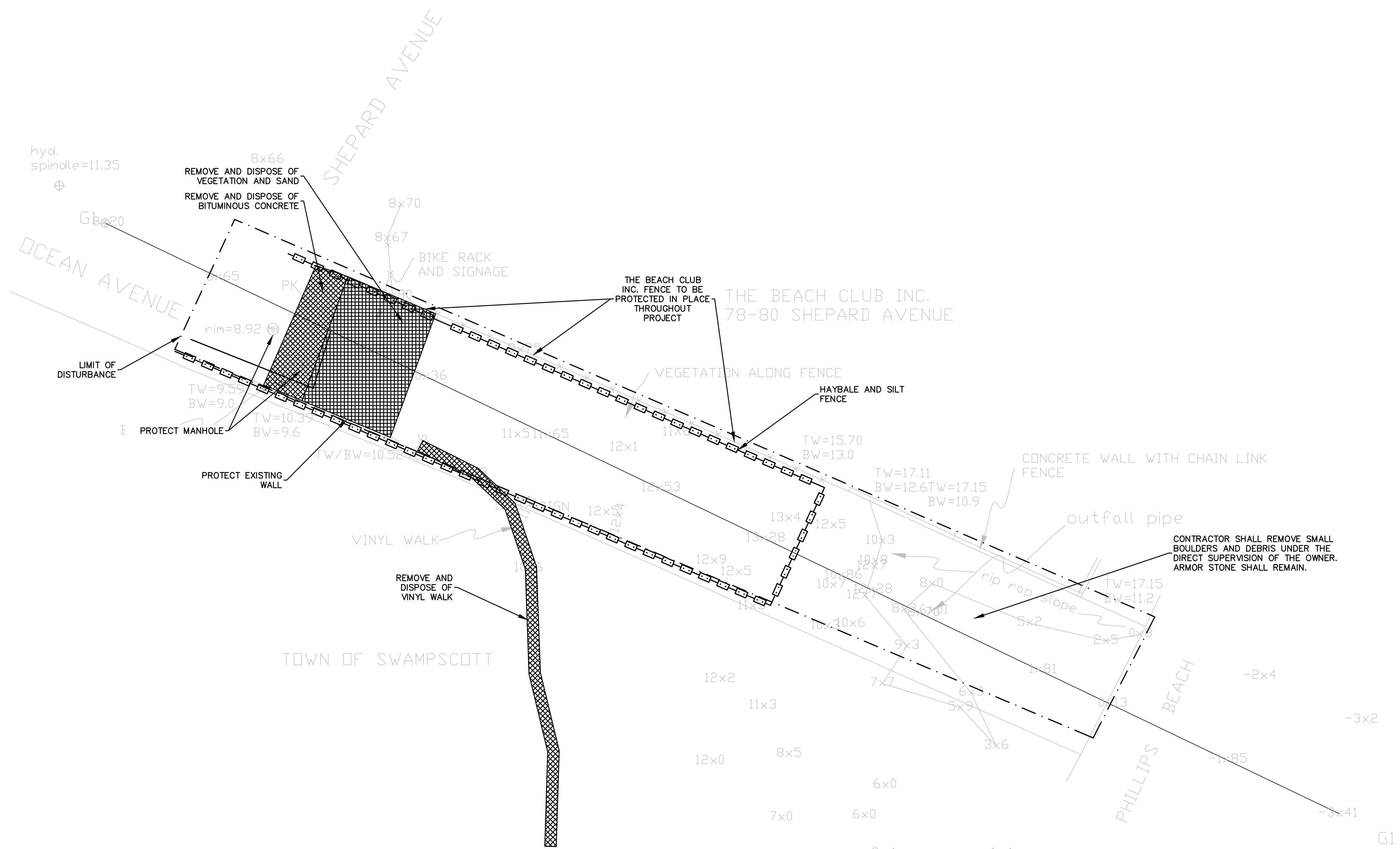
THE LOCATION OF THE UTILITIES AS SHOWN HEREON HAVE BEEN COMPILED FROM VISIBLE STRUCTURES AND INFORMATION OBTAINED FROM VARIOUS SOURCES. THE ACTUAL LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES SHALL BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED BY THE OWNER PRIOR TO ANY CONSTRUCTION. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICES OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.

TIDE LEVELS	
DATUM	VALUE (FT)
MEAN HIGHER-HIGH WATER	4.77
MEAN HIGH WATER	4.33
MEAN SEA LEVEL	-0.30
MEAN LOW WATER	-5.16
MEAN LOWER-LOW WATER	-5.51

NOTE: DATUM INFO FOR STATION #8443970, BOSTON MA

REVISIONS

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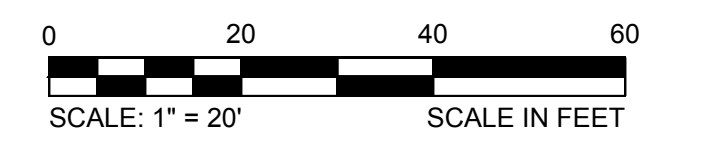
SITE PREPARATION NOTES

1. SECURE THE SITE WITH TEMPORARY CONSTRUCTION FENCE PRIOR TO WORK.
2. INSTALL/MAINTAIN SILT SACK FOR ALL EXISTING CATCH BASINS ON PUBLIC ROADS AROUND THE SITE PERIMETER.
3. CONTRACTOR SHALL REMOVE ALL SIGNAGE AND TRASH CANS TEMPORARILY OFF-SITE AND REPLACE AFTER CONSTRUCTION HAS BEEN COMPLETED. CONTRACTOR TO COORDINATE WITH TOWN OF SWAMPSCOTT.

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WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907



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PHILLIPS' BEACH SITE PREPARATION AND DEMOLITION PLAN

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C-17

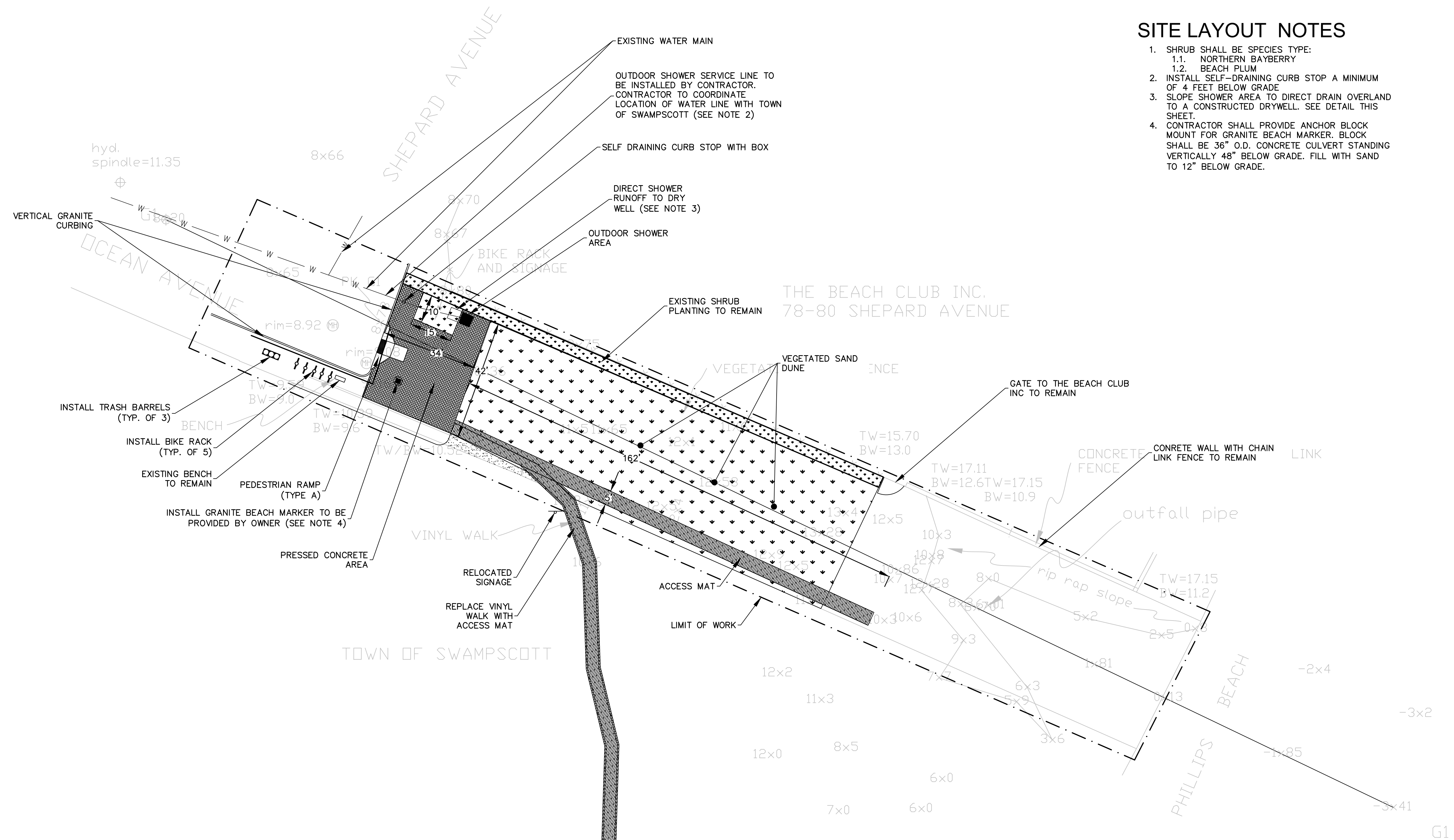
CAD FILE: G:_clients\swampscott\20172630 - Waterfront Access And Flood Protection Design\Drawings\Production Drawings\Phillips Beach\Site Prep And Demo.dwg LAYOUT: PHILLIPS BEACH SITE PREPARATION AND DEMOLITION PLAN PLOTTED: 6/9/2017 12:29 PM BY: alex.silver

SITE LAYOUT NOTES

- SHRUB SHALL BE SPECIES TYPE:
 - NORTHERN BAYBERRY
 - BEACH PLUM
- INSTALL SELF-DRAINING CURB STOP A MINIMUM OF 4 FEET BELOW GRADE
- SLOPE SHOWER AREA TO DIRECT DRAIN OVERLAND TO A CONSTRUCTED DRYWELL. SEE DETAIL THIS SHEET.
- CONTRACTOR SHALL PROVIDE ANCHOR BLOCK MOUNT FOR GRANITE BEACH MARKER. BLOCK SHALL BE 36" O.D. CONCRETE CULVERT STANDING VERTICALLY 48" BELOW GRADE. FILL WITH SAND TO 12" BELOW GRADE.

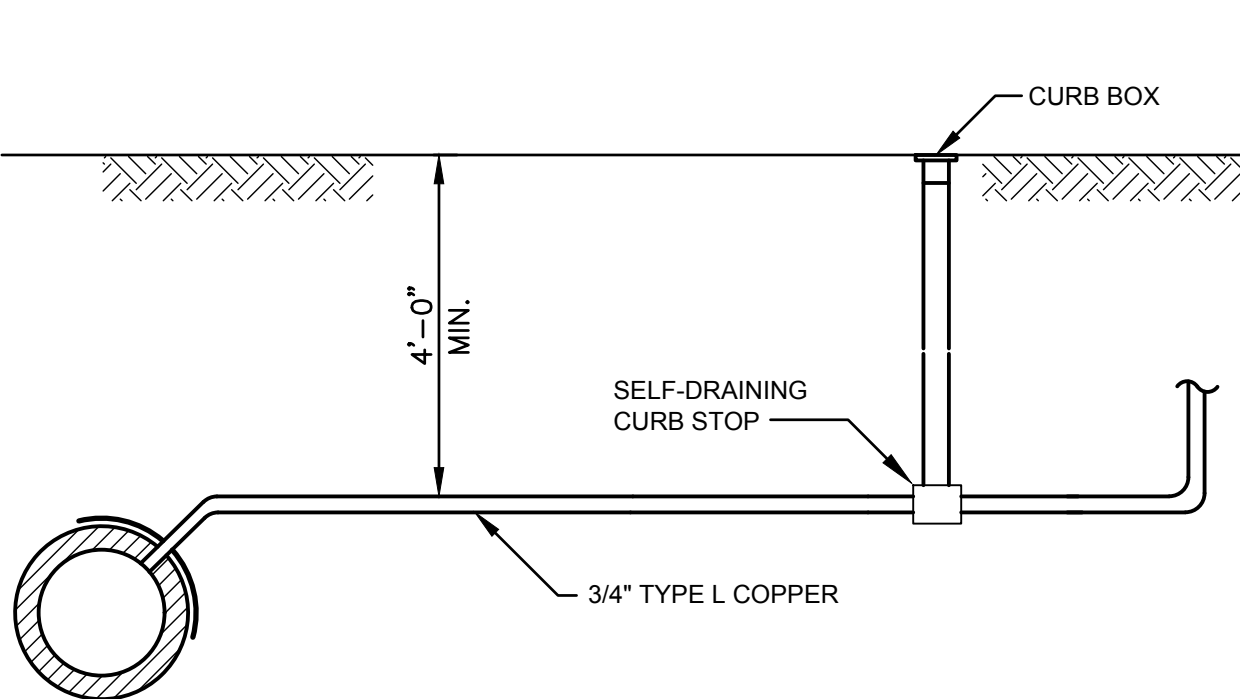
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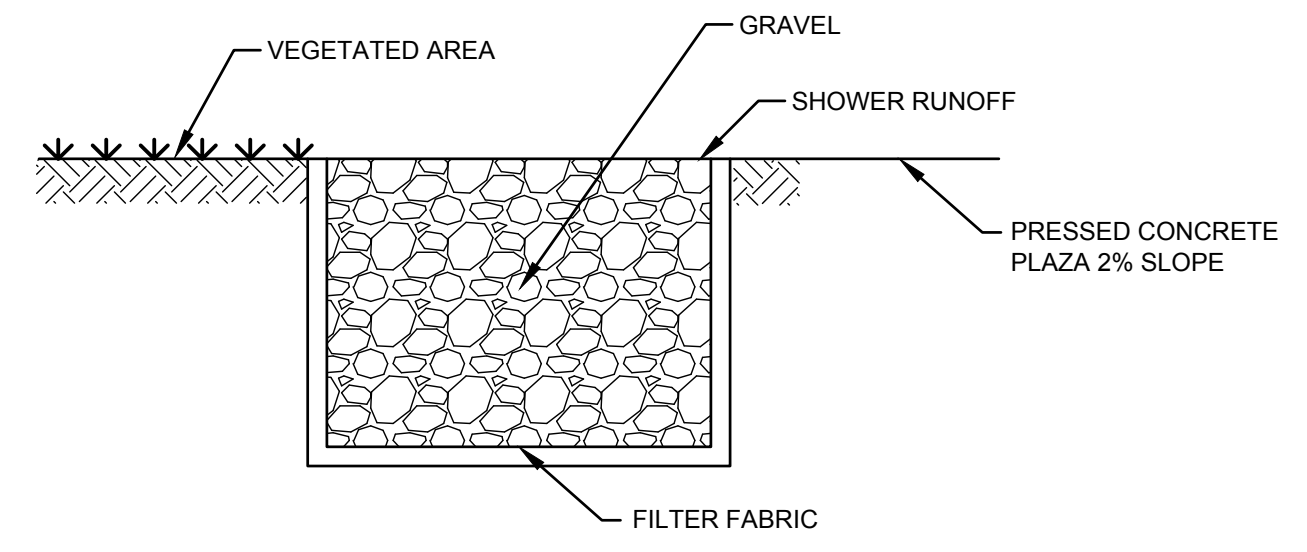


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NOTE: DATUM INFO FOR STATION #8443970, BOSTON MA

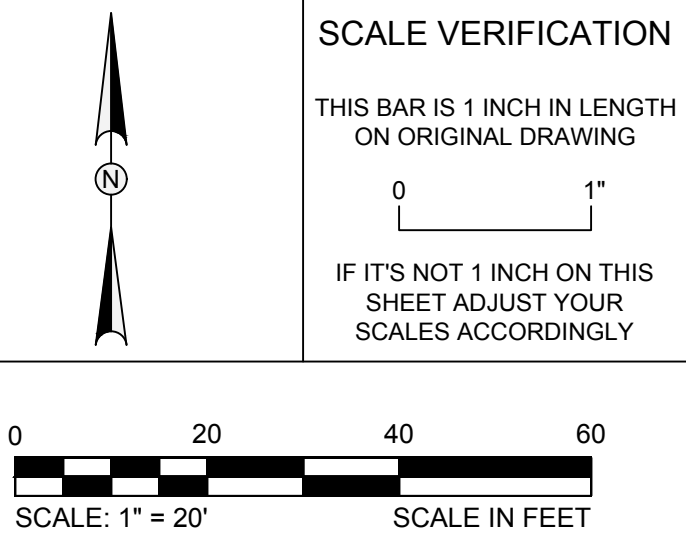


WATER SERVICE DETAIL
SCALE: N.T.S.



DRY WELL DETAIL
SCALE: N.T.S.

90% DESIGN
JUNE 9, 2017



WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907



Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

PHILLIPS' BEACH SITE LAYOUT PLAN

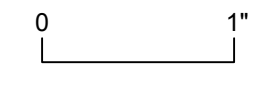
PROJECT NO.	20172630	C-18
ISSUE DATE	06/09/2017	
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CHECKED BY	NB	SHEET 21 of 27
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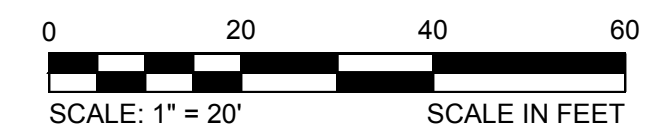
REV	DESCRIPTION	DSN DWN	CHK APP	DATE

SCALE VERIFICATION

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WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907

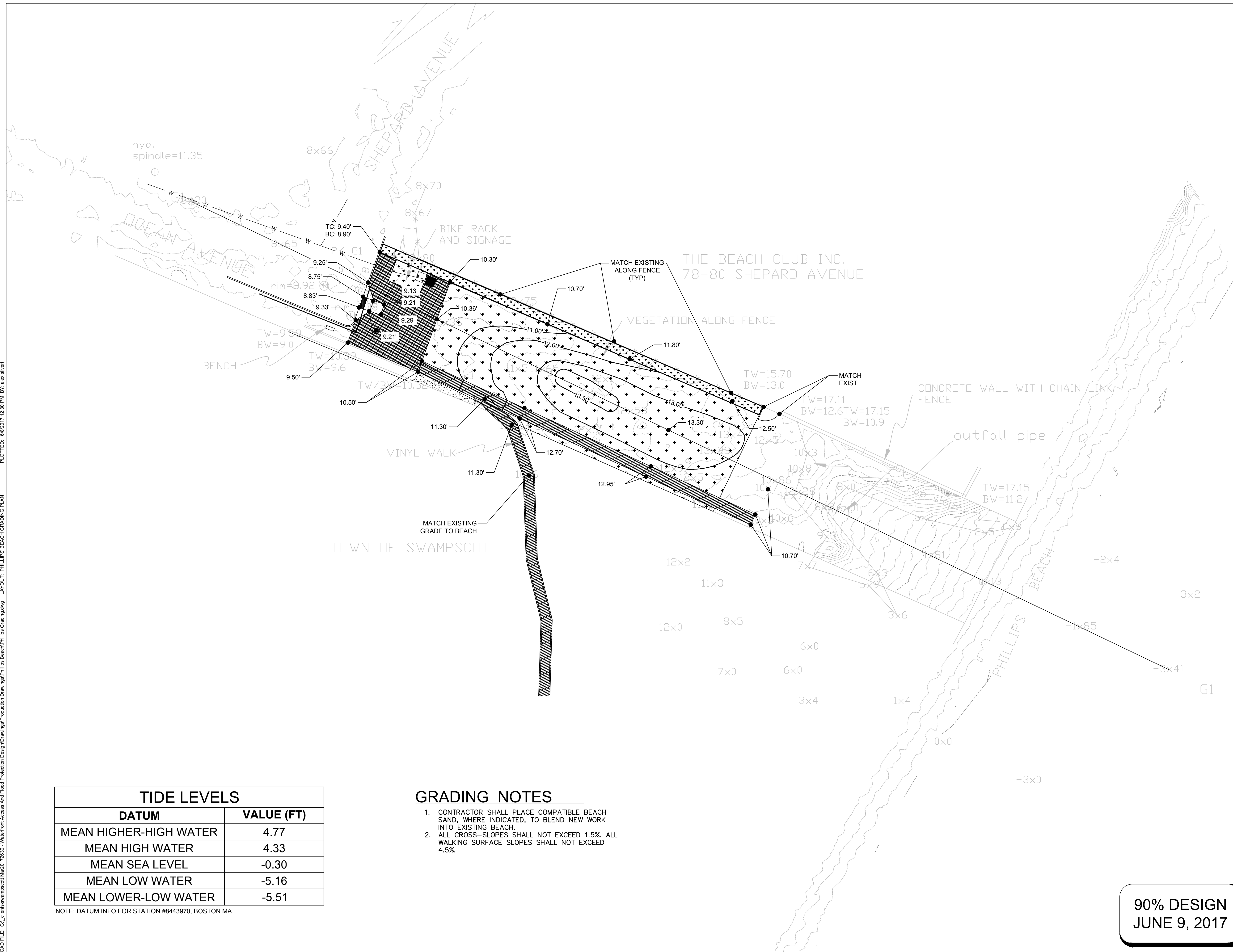


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PHILLIPS' BEACH GRADING PLAN

PROJECT NO.	20172630
ISSUE DATE	06/09/2017
CURRENT REVISION	
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APPROVED BY	MT

C-19



TIDE LEVELS	
DATUM	VALUE (FT)
MEAN HIGHER-HIGH WATER	4.77
MEAN HIGH WATER	4.33
MEAN SEA LEVEL	-0.30
MEAN LOW WATER	-5.16
MEAN LOWER-LOW WATER	-5.51

NOTE: DATUM INFO FOR STATION #8443970, BOSTON MA

GRADING NOTES

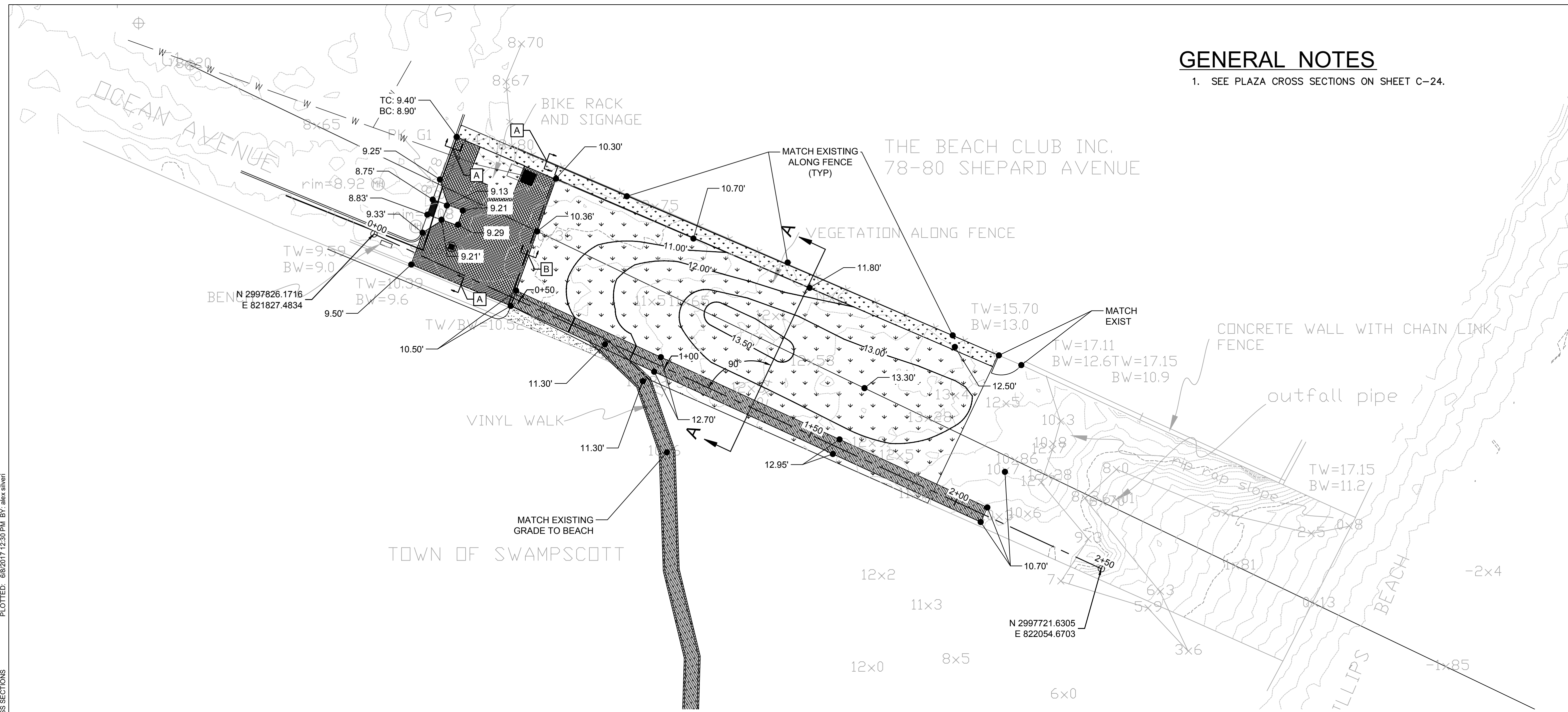
- CONTRACTOR SHALL PLACE COMPATIBLE BEACH SAND, WHERE INDICATED, TO BLEND NEW WORK INTO EXISTING BEACH.
- ALL CROSS-SLOPES SHALL NOT EXCEED 1.5%. ALL WALKING SURFACE SLOPES SHALL NOT EXCEED 4.5%.

90% DESIGN
JUNE 9, 2017

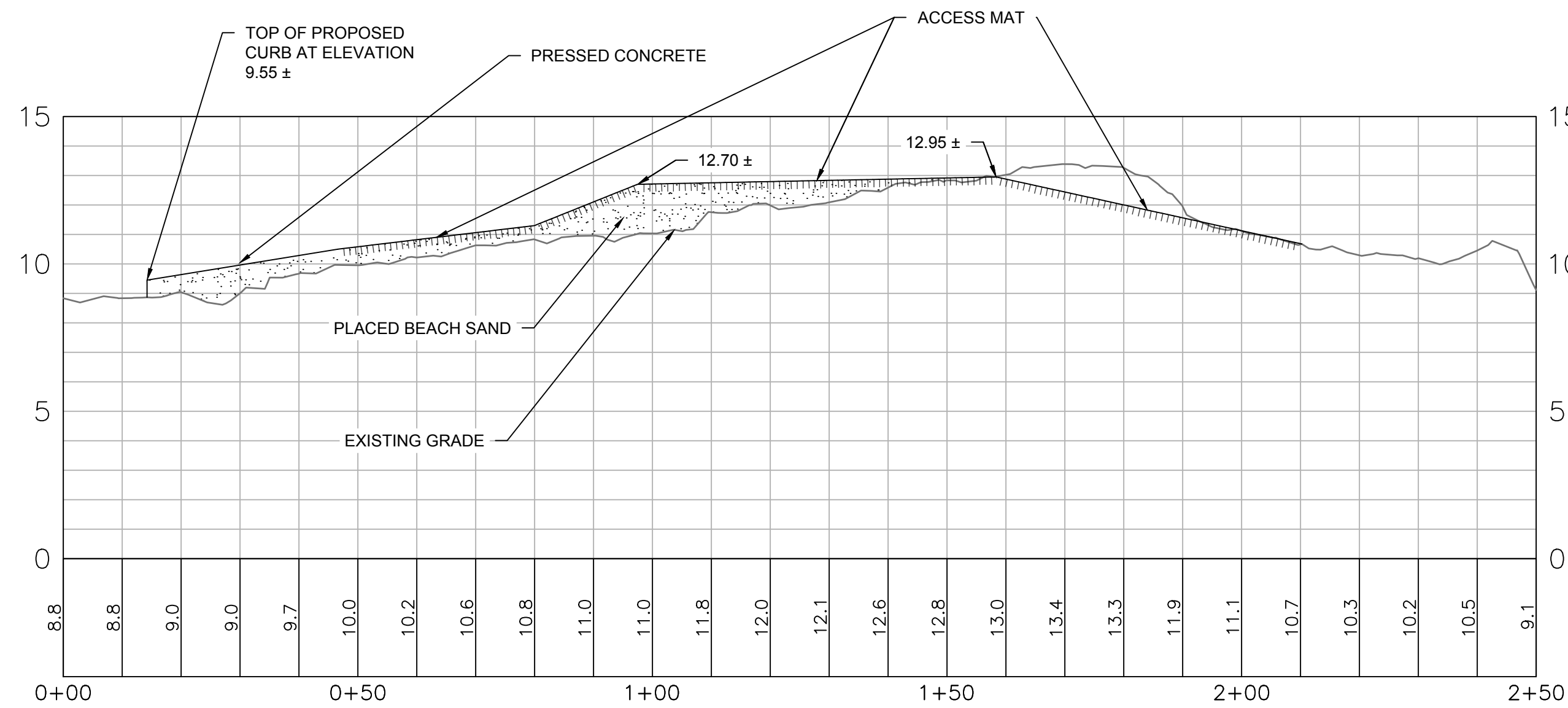
CAD FILE: G:\clients\swampscott\20172630 - Waterfront Access And Flood Protection Design\Drawings\Production Drawings\Phillips Beach\Phillips Beach Grading.dwg LAYOUT: PHILLIPS' BEACH GRADING PLAN PLOTTED: 6/8/2017 12:30 PM BY: alex.silver

GENERAL NOTES

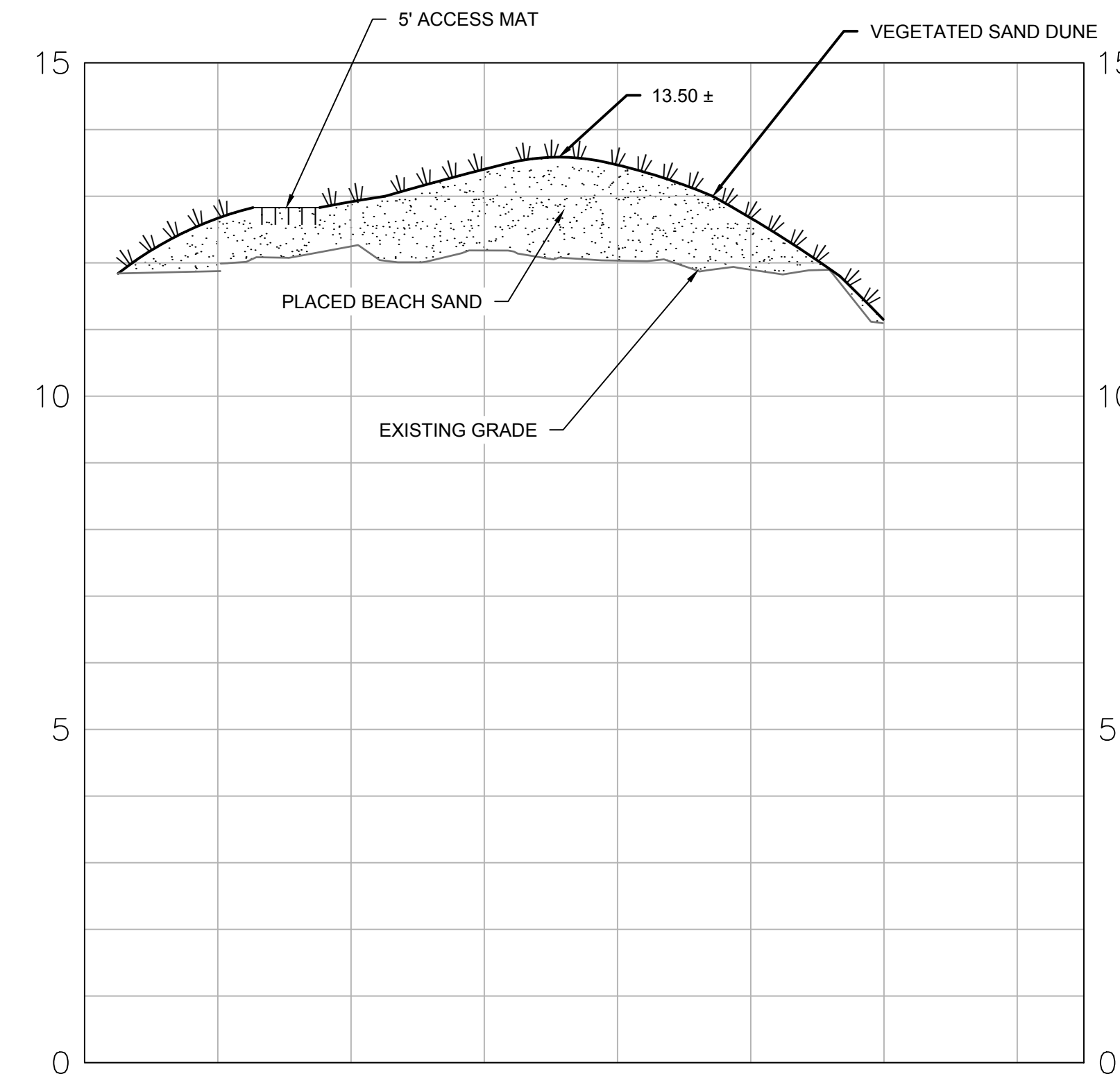
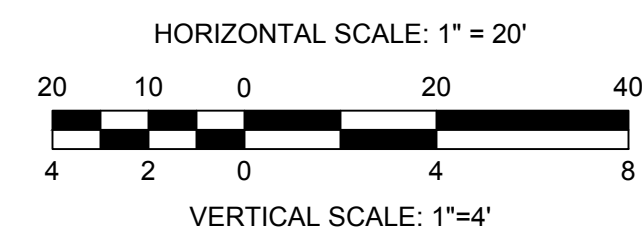
1. SEE PLAZA CROSS SECTIONS ON SHEET C-24.



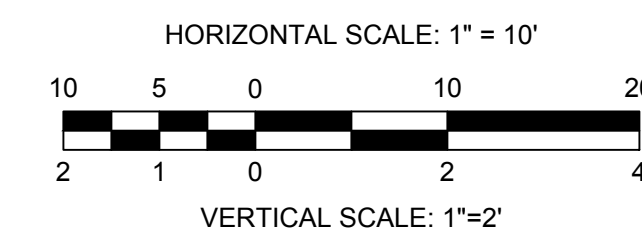
PLAN
SCALE: 1" = 20'



PROFILE
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

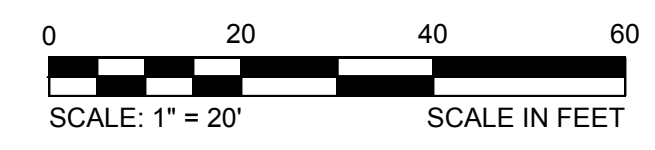
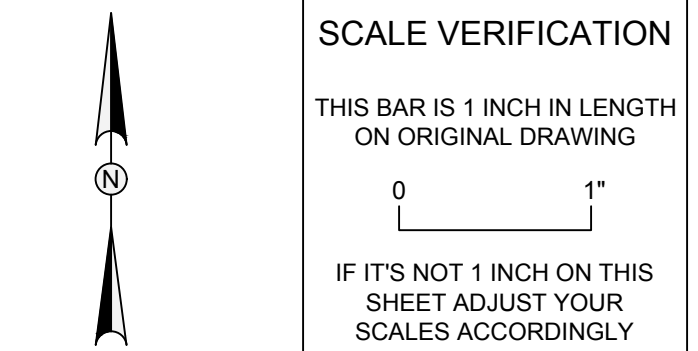


A-A SECTION
SCALE: 1:10



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JUNE 9, 2017

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REV	DESCRIPTION	DSN DWN	CHK APP	DATE



WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907

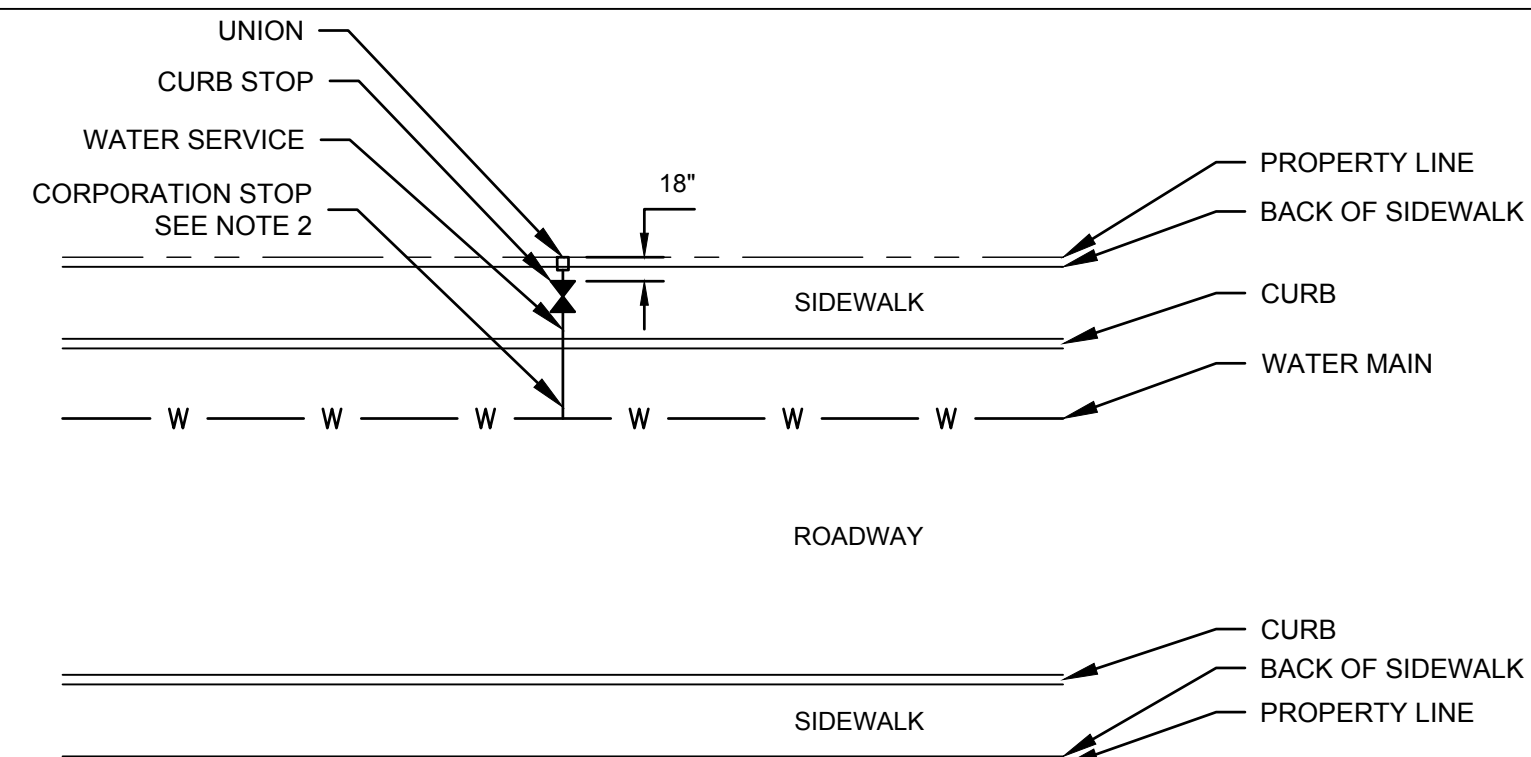


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PHILLIPS' BEACH CROSS SECTIONS

PROJECT NO.	20172630	C-20
ISSUE DATE	06/09/2017	
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SHEET		23 of 27

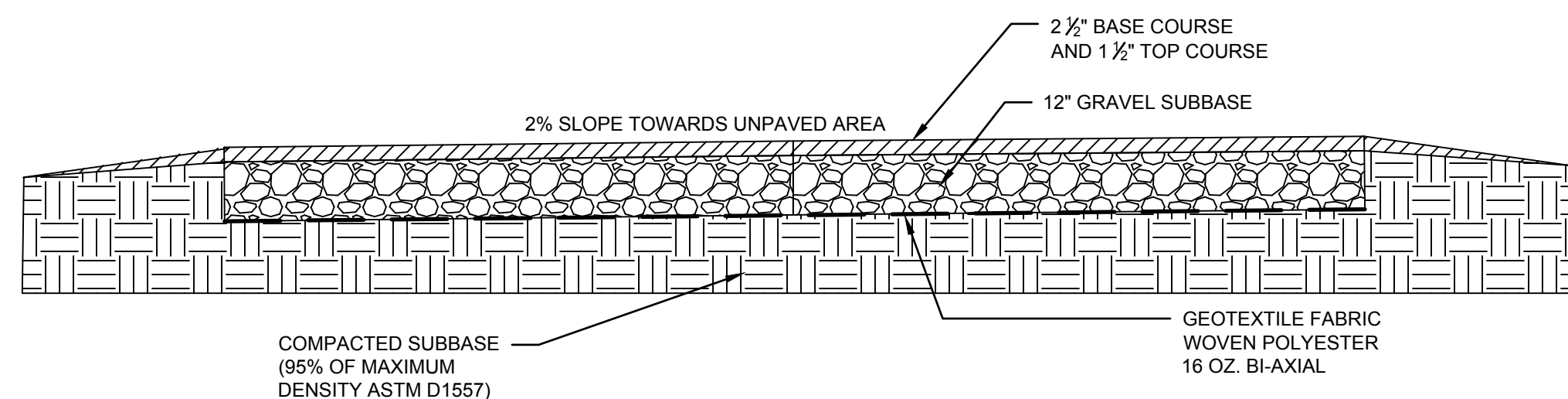
CAD FILE: G:\clients\swampscott\20172630 - Waterfront Access And Flood Protection Design\Drawings\Production Drawings\Phillips Beach\Cross Sections.dwg LAYOUT: PHILLIPS' BEACH CROSS SECTIONS PLOTTED: 6/9/2017 12:30 PM BY: alex silver



- NOTE:
- ALL NEW SERVICE TAPS ON EXISTING MAINS SHALL INCLUDE A SADDLE. CONTRACTOR TO SHUT OFF AND ABANDON EXISTING CORPORATION STOP AT MAIN.
 - DOMESTIC SERVICES 2" AND SMALLER SHALL BE 3/4" COPPER OR MATCH THE EXISTING SIZE, WHICHEVER IS LARGER.

TYPICAL WATER SERVICE DETAIL

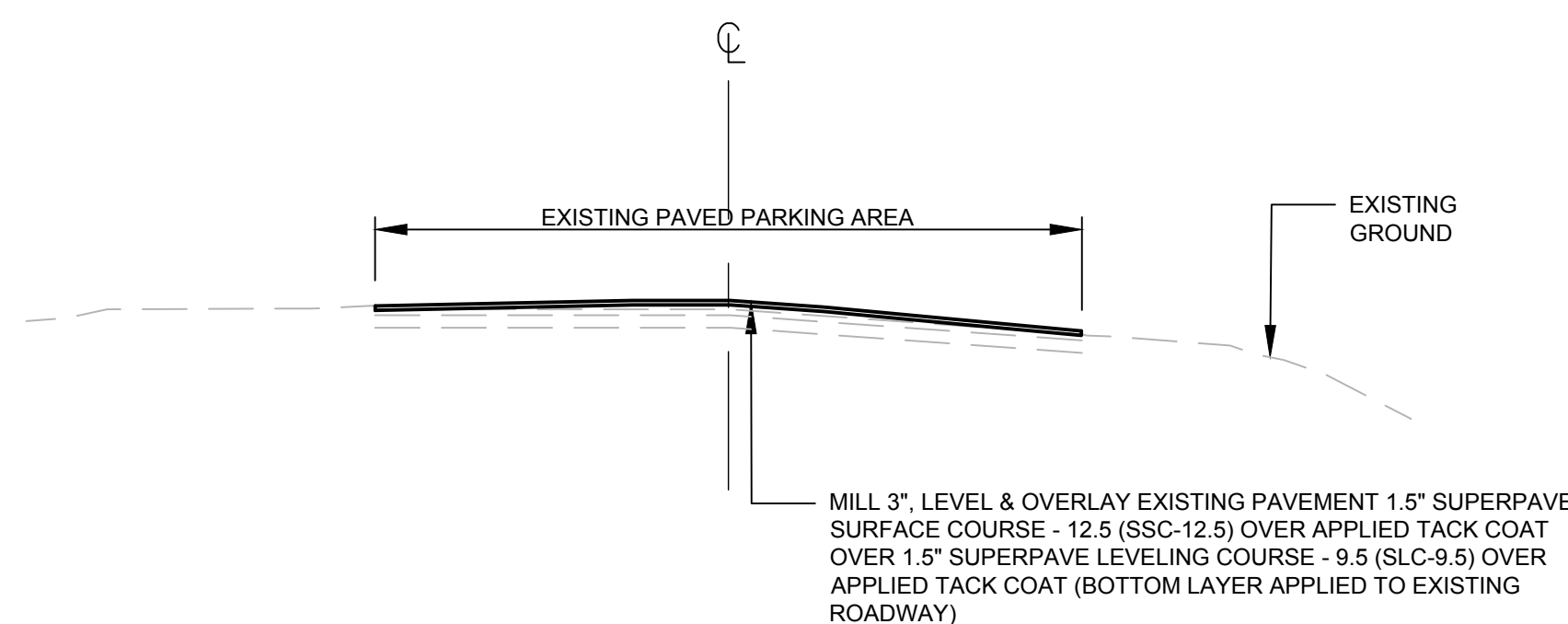
SCALE: N.T.S.



TYPICAL PAVEMENT DETAIL

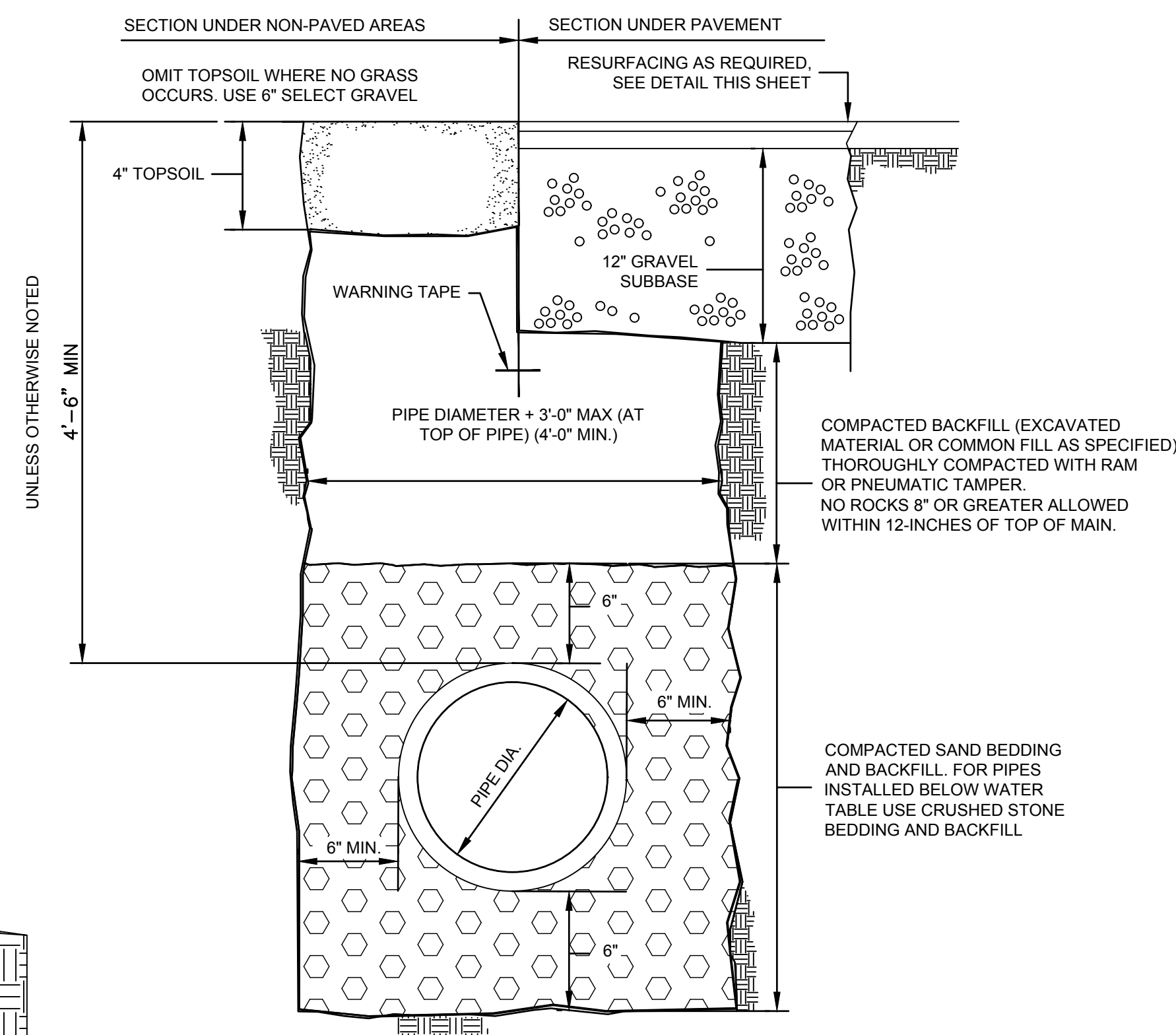
SCALE: N.T.S.

- NOTES:
- EXISTING PAVEMENT ON SHALL BE REMOVED AND DISPOSED.



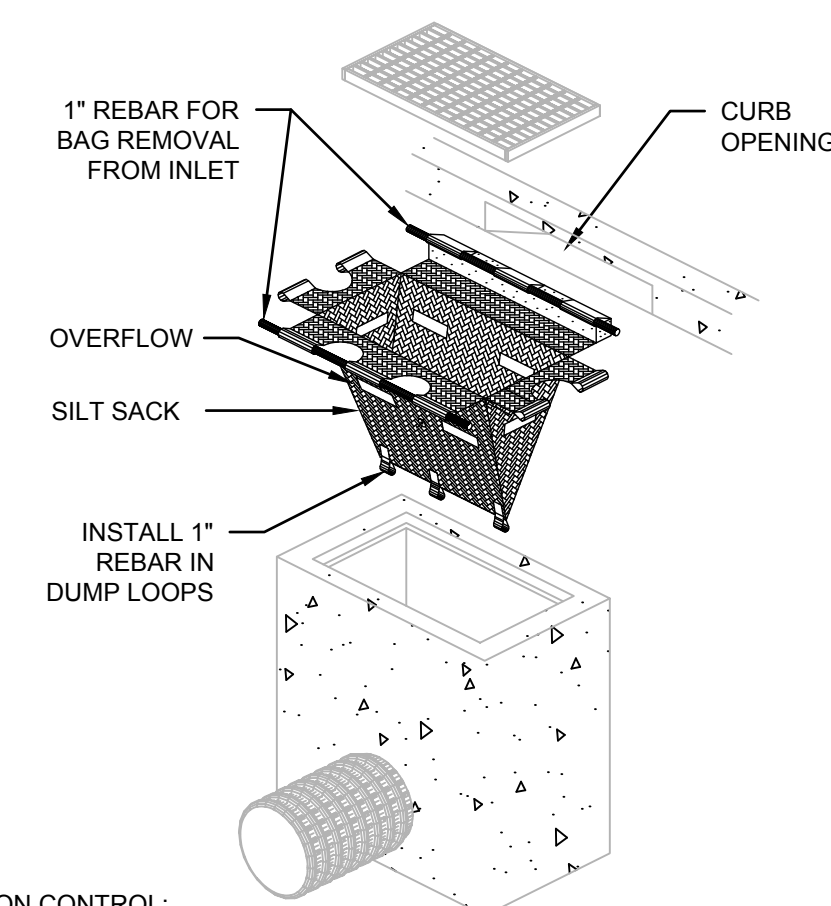
TYPICAL MILL AND OVERLAY DETAIL

SCALE: N.T.S.



TYPICAL TRENCH DETAIL

SCALE: N.T.S.

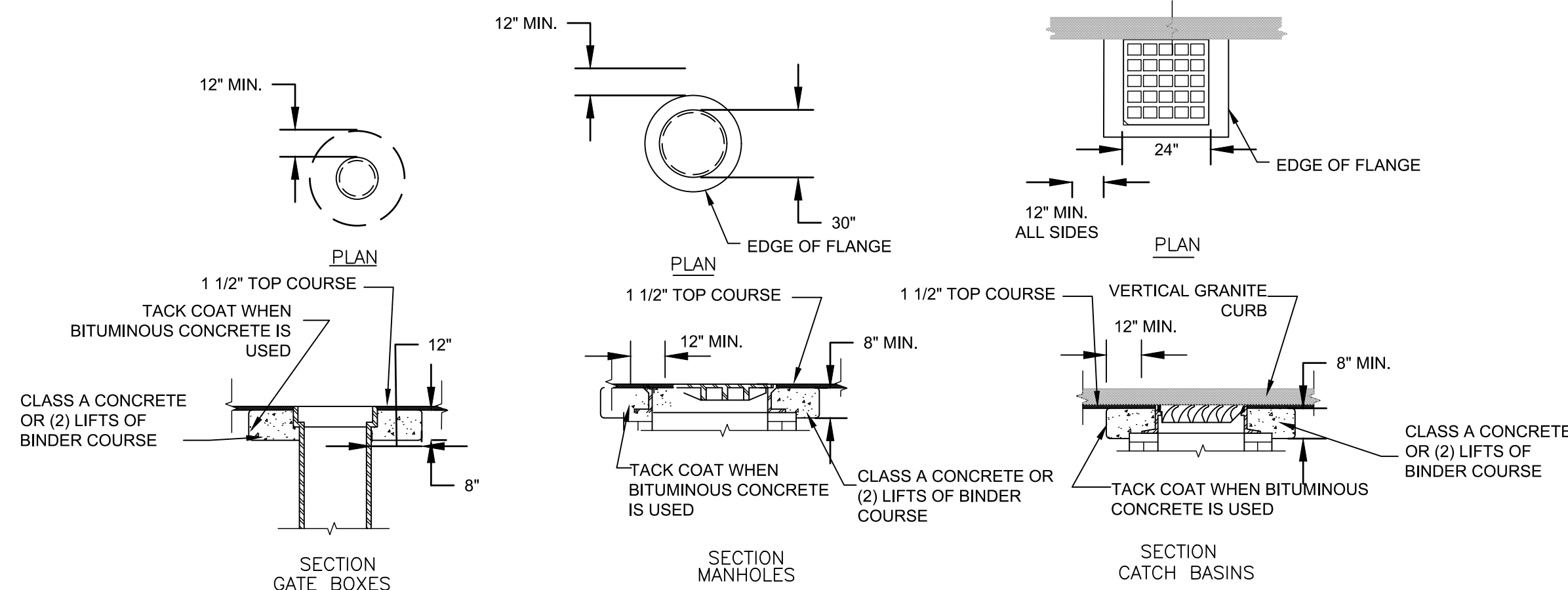


NOTES FOR EROSION CONTROL:

- CONTRACTOR SHALL REMOVE SEDIMENT AS NECESSARY TO MAINTAIN LEVEL BELOW OVERFLOW HOLES IN SILT SACK.
- SILT SACK SHALL BE USED ON ALL EXISTING CATCH BASINS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SEDIMENTATION BARRIERS THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF SEDIMENT AS REQUIRED.
- CONTRACTOR SHALL REMOVE SILT SACKS AND STRAW WATTLES AND LEGALLY DISPOSE OF THEM OFF-SITE, UPON COMPLETION OF THE PROJECT AND AS REQUIRED.

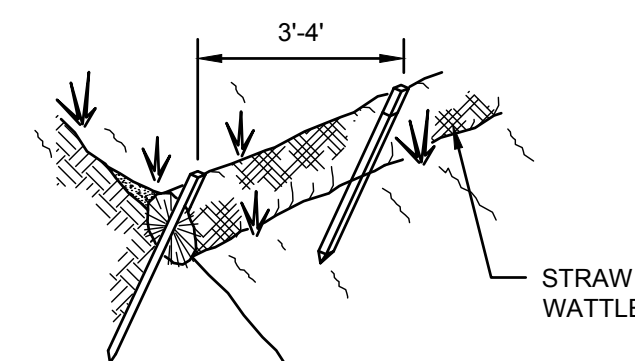
TYPICAL SILT SACK DETAIL

SCALE: N.T.S.



RAISING CASTINGS DETAIL

SCALE: N.T.S.



NOTES FOR EROSION CONTROL:

- STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3'-5" DEEP, DUG ON CONTOUR. RUNOFF SHALL NOT BE ALLOWED TO RUN UNDER OR AROUND WATTLE.
- STRAW WATTLES SHALL BE PLACED ALONG SLOPE CONTOURS.
- ADJACENT WATTLES SHALL TIGHTLY ABUT.

TYPICAL STRAW WATTLE DETAIL

SCALE: N.T.S.



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Phone: 617-497-7800
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SCALE VERIFICATION

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WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN



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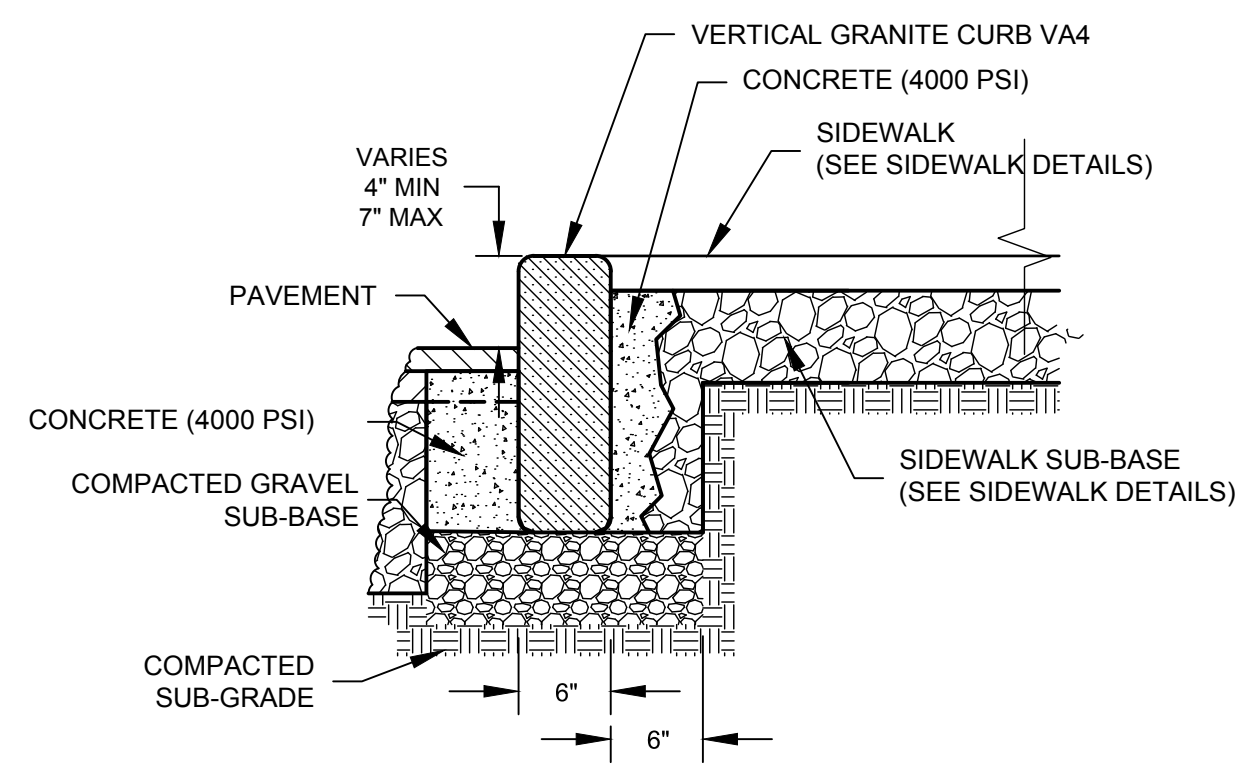
DETAILS I

PROJECT NO.	20172630	C-23
ISSUE DATE	06/09/2017	
CURRENT REVISION		
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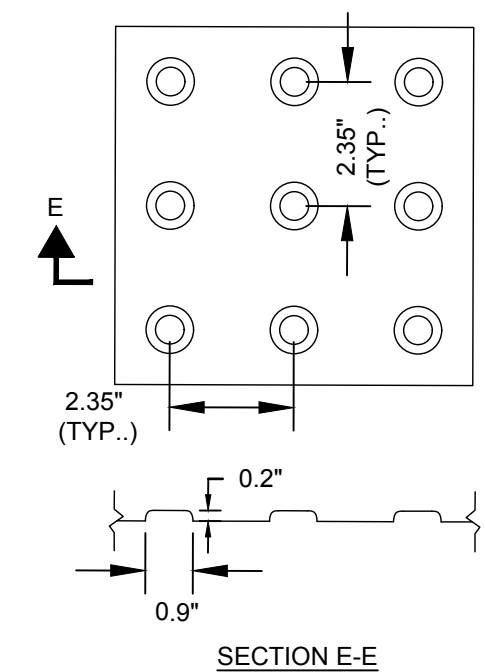
SHEET 26 of 27

90% DESIGN
JUNE 9, 2017

CAD FILE: G:_clients\swampscott\20172630 - Waterfront Access And Flood Protection Design\Drawings\Production Drawings\Details.dwg LAYOUT: DETAILS I PLOTTED: 08/20/17 12:30 PM BY: alex.silver



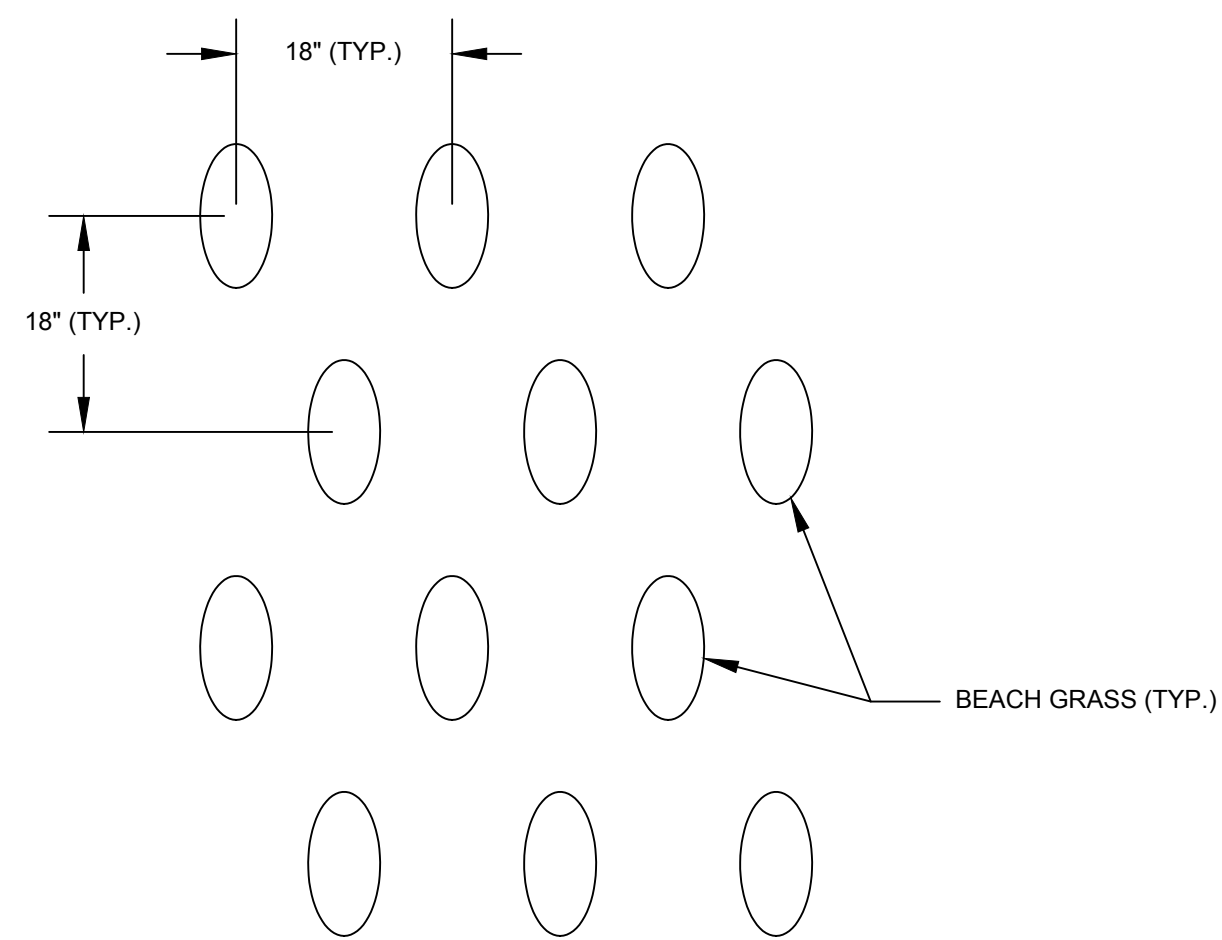
VERTICAL GRANITE CURB DETAIL
SCALE: N.T.S.



NOTES

1. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT ON DARK OR DARK-ON-LIGHT.
2. DETECTABLE WARNING PANELS SHALL RUN THE WIDTH OF THE RAMP AND EXTEND A MIN. OF 2' IN RAMP AND BE CONSTRUCTED OF HOMOGENOUS GLASS AND CARBON REINFORCED COMPOSITE, WHICH IS COLORFAST AND UV STABLE.

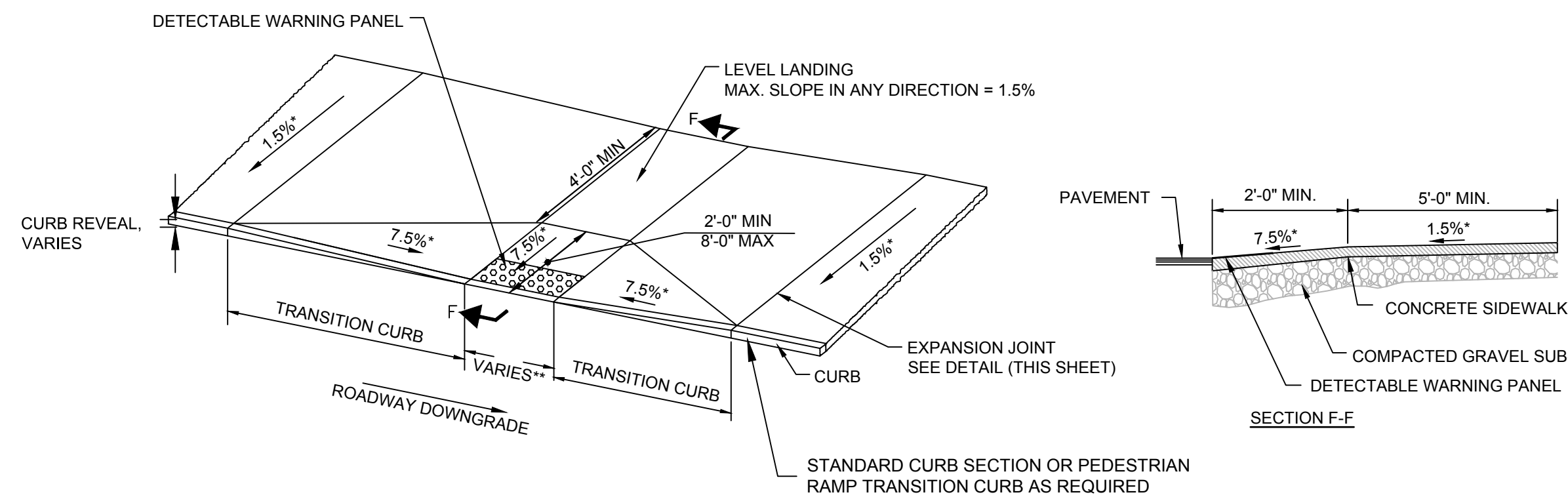
DETECTABLE WARNING PANEL DETAIL
SCALE: N.T.S.



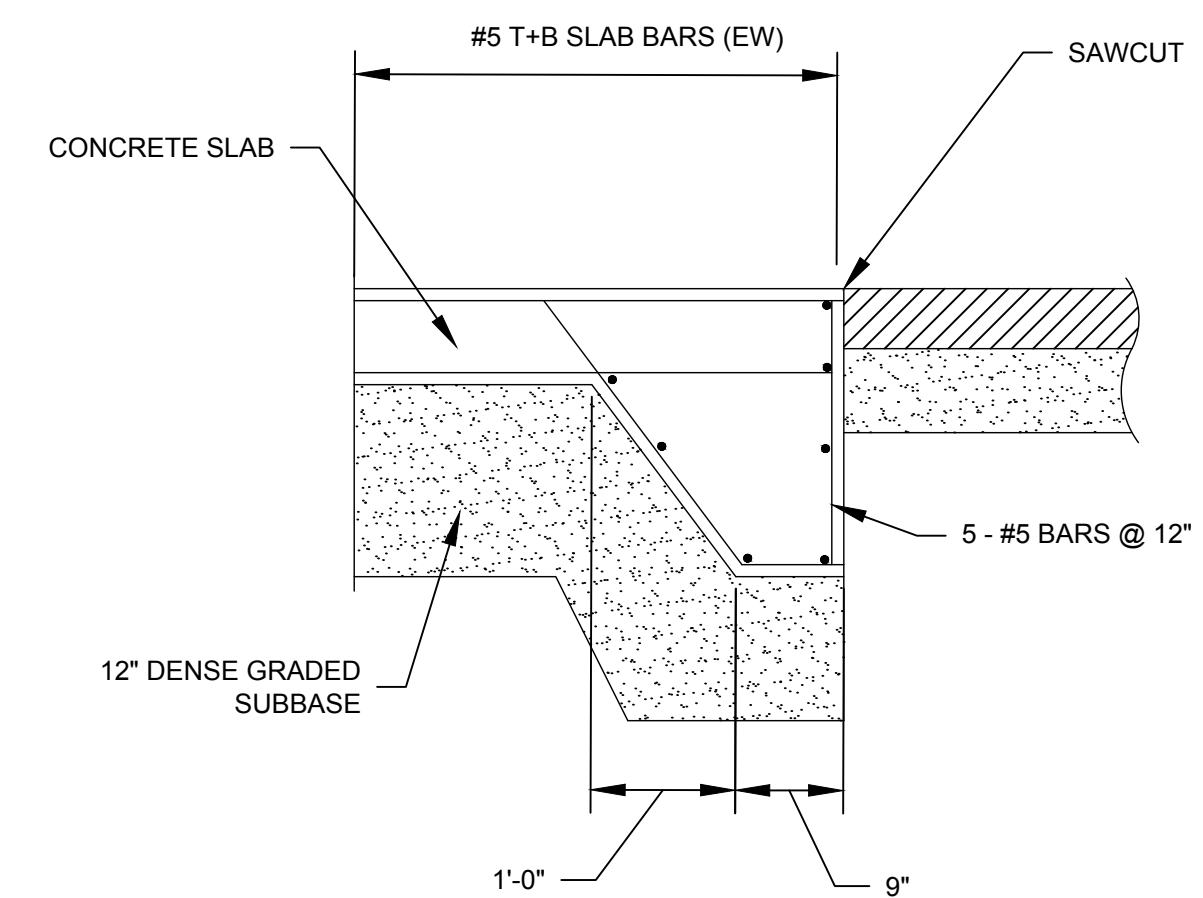
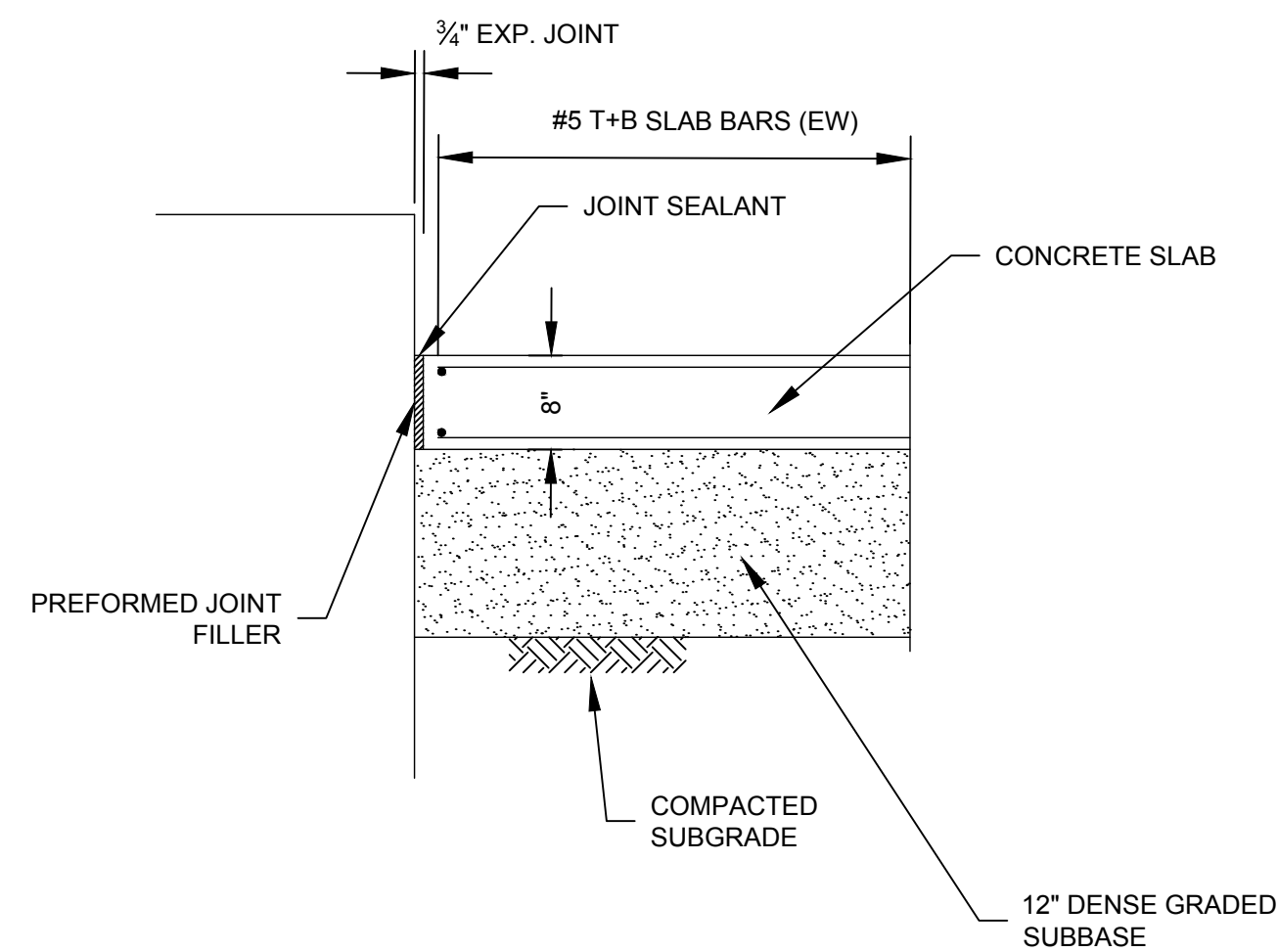
PLANTING NOTES:

1. PLANTS AND ROOTS MUST BE KEPT MOIST BEFORE AND DURING PLANTING.
2. AFTER FINAL GRADING, THE FACE OF THE COASTAL BANK/DUNE SHALL BE PLANTED WITH AMERICAN BEACH GRASS, AND/OR INDIGENOUS VEGETATION IN A 18-INCH MATRIX AS NECESSARY TO MAINTAIN THE STABILIZED SLOPE.
3. BEACH GRASS TO BE PLANTED IN 2-3 CULMS PER HOLE.
4. PLANT 2 OR 3 - 18"-24" STEMS IN A HOLE, APPROXIMATELY 7"-9" DEEP.
5. 5. COMPACT THE SAND FIRMLY AROUND THE PLANTS.

BEACH GRASS PLANTING DETAIL
SCALE: N.T.S.



PEDESTRIAN RAMP DETAIL (TYPE A)
SCALE: N.T.S.



NOTES:

1. CONCRETE 28-DAY COMPRESSIVE STRENGTH: 4000 PSI
2. ALL STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60, ALL STEEL SHALL BE EPOXY COATED.
3. PREFORMED JOINT FILLER: CONFORM TO AASHTO M153.
4. CONCRETE SHALL CONTAIN 1 POUND POLYPROPYLENE MICRO-FIBER PER CUBIC YARD. FIBERS SHALL BE 1/2" OR 3/4" 100% POLYPROPYLENE FIBERS, MAXIMUM 3 DENIER, COMPLYING WITH ASTM C116, TYPE III PAR. 4.1.3.
5. ALL CONCRETE SHALL BE SEALED WITH A PENETRATING CONCRETE SEALER.

PRESSED CONCRETE PAD DETAIL
SCALE: 3/4" = 1'-0"

REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE

SCALE VERIFICATION
THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING
0 1"
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DETAILS II

PROJECT NO.	20172630
ISSUE DATE	06/09/2017
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SHEET 27 of 27

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C-24

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