WATERFRONT ACCESS AND FLOOD PROTECTION DESIGN

CASSIDY PARK AND PHILLIPS' BEACH

TOWN OF SWAMPSCOTT, MASSACHUSETTS

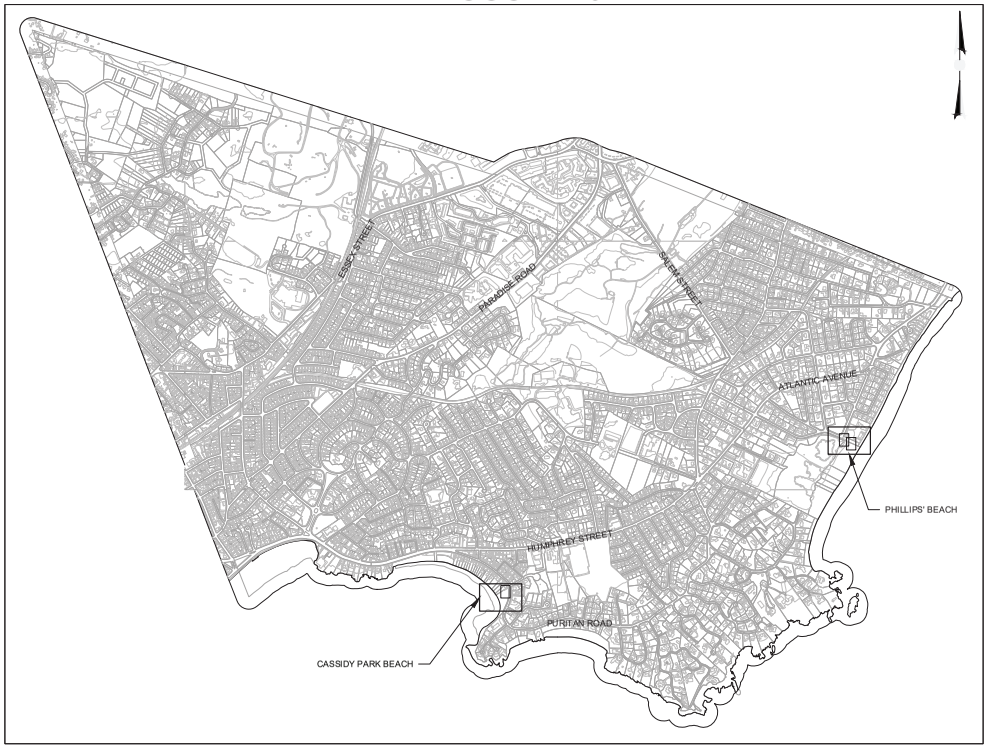
AUGUST 2021

DEPARTMENT OF PUBLIC WORKS

GINO CRESTA JR., DIRECTOR

PLANNING DEPARTMENT

MARZIE GALAZKA, DIRECTOR OF COMMUNITY AND ECONOMIC DEVELOPMENT



LOCUS PLAN

SCALE: 1"=1000'

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RECORD DRAWING

GENERAL NOTES

1. THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP DURING APRIL OF 2020.
2. NORTH ARROW REFERS TO THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NAD83(2011), AND IS BASED UPON GPS OBSERVATIONS PERFORMED BY WSP.
3. ELEVATIONS REFER TO NAVD88 AND ARE BASED BASED UPON GPS OBSERVATIONS PERFORMED BY WSP.
4. THE LOCATION OF THE UTILITIES AS SHOWN HERON HAVE BEEN COMPILED FROM VISIBLE STRUCTURES AND AVAILABLE RECORDS. 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.
5. BOUNDARY SURVEYING WAS NOT PERFORMED AS PART OF THIS SURVEY, PROPERTY LINES DEPICTED ARE TAKEN FROM AVAILABLE GIS DATA AND SHOULD BE CONSIDERED APPROXIMATE.
6. ALL TIDE AND CURRENT INFORMATION HEREON REFERENCES NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION STATION NO. 8443970 BOSTON, MA
7. THE MAJORITY OF THE WORK SHALL BE ABOVE THE HIGH WATER LEVEL HOWEVER, WHENEVER WORK IS CONDUCTED WITHIN AREAS OF TIDAL INFLUENCE THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING TIDAL WATERS OUT OF THE WORK AREA AND/OR SCHEDULING THE WORK BETWEEN TIDES WITH NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL BE AWARE OF PREDICTED TIDAL CONDITIONS, AS MAY BE AFFECTED BY STORM EVENTS, AND COORDINATE WORK WITH THIS KNOWLEDGE.
8. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR IT'S REPRESENTATIVE.
9. [illegible] UTILITIES.
10. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNER OF ANY EXISTING UTILITIES THAT ARE LOCATED WITHIN THE WORK ZONE REGARDING SUPPORT OR RELOCATION NECESSARY TO COMPLETE WORK. CONTRACTOR'S BID SHALL INCLUDE COSTS ASSOCIATED WITH UTILITY SUPPORT.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OR SUPPORT OF ALL UTILITIES WITHIN THE LIMITS OF WORK OBSTRUCTING THE PROPOSED CONSTRUCTION. RELOCATION AND/OR SUPPORT OF UTILITIES SHALL BE IN ACCORDANCE WITH UTILITY OWNER'S REQUIREMENTS.
12. EXISTING UTILITY POLES THAT FALL WITHIN 5 FEET OF THE EDGE OF EXCAVATION SHALL BE SUPPORTED BY THE OWNER OF THE UTILITY, TO BE COORDINATED BY THE CONTACTOR WHILE TRENCH REMAINS ACTIVE. CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER TO SUPPORT AND BE RESPONSIBLE FOR COSTS AND FEES. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING THE EXISTING UTILITY IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS.
13. PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS INFORMATION AND REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL CONDITIONS TO THE ENGINEER.
14. ALL TRENCHING, BACKFILLING AND RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL AND FEDERAL OSHA REGULATIONS.
15. UPON COMPLETION OF THE WORK ALL DISTURBED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.
16. LANDSCAPED AREAS, FEATURES, PLANTINGS SHALL BE INSTALLED UPON RESTORED SURFACES AS SPECIFIED AND DETAILED HEREIN.
17. THE CONTRACTOR SHALL REPLACE EXISTING PERMANENT PAVEMENT MARKINGS IN-KIND WHEREVER THEY ARE DISTURBED AS A RESULT OF HIS WORK.
18. CONTRACTOR SHALL PHOTOGRAPH AND TAG ALL MUNICIPAL SIGNS IN THE PROJECT AREA. SIGNS SHALL BE DISMOUNTED, PROTECTED, STORED AND THEN REINSTALLED AS INDICATED ON THE CONTRACT DRAWINGS OR AS INSTRUCTED BY OWNER.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. TEMPORARY STOCKPILING OF CONSTRUCTION MATERIALS SHALL BE COORDINATED WITH THE TOWN. STOCKPILE AREAS SHALL BE SURROUNDED ON THEIR PERIMETERS WITH STAKED STRAW HAYBALES & SILTATION FENCES AND/OR COVER THE STOCKPILES WITH PLASTIC TO PREVENT AND/OR CONTROL SILTATION AND EROSION.
2. ALL EXISTING CATCH BASINS LOCATED WITHIN THE PROJECT SITE SHALL BE PROTECTED BY FIBER ROLLS AND BY PLACING SILT SACKS BENEATH THE GRATE UNTIL ALL DISTURBED AREAS HAVE BEEN THOROUGHLY STABILIZED.
3. CATCH BASINS WITH SILT SACKS, WHICH SERVE AS TEMPORARY SEDIMENT TRAPS, MUST BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SEDIMENT FROM EACH SILT BAG WHEN EXPANSION RESTRAINT CORD IS NO LONGER VISIBLE PER MANUFACTURER'S RECOMMENDATION.
4. UPON COMPLETION OF ALL SITE WORK CONSTRUCTION THE CONTRACTOR SHALL INSPECT ALL ON-SITE CATCH BASINS, AND SEDIMENT TRAPS AND REMOVE ALL SEDIMENT AND TRASH DEBRIS THAT HAS ACCUMULATED WITHIN EACH STRUCTURE DURING THE COURSE OF CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROLS DURING CONSTRUCTION. CONTRACTOR SHALL BE PREPARED TO UTILIZE WATER OR CALCIUM CHLORIDE TO SUPPRESS DUST ON SITE.

TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES THROUGHOUT CONSTRUCTION, UNLESS WRITTEN APPROVAL IS PROVIDED BY THE OWNER.
2. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS EXISTING PAVEMENT EXCAVATION, GRADING, PAVEMENT PLACEMENT AND SIMILAR OPERATIONS.
5. THE CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS TO RESIDENTS.
6. THE CONTRACTOR SHALL PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
7. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE UNIFORMED POLICEMEN FOR TRAFFIC CONTROL FOR WORK WITHIN TOWN STREETS. TOWN SHALL PAY FOR POICEMEN.
8. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN CROSSINGS AT INTERSECTIONS.
9. THE CONTRACTOR SHALL MAINTAIN SIDEWALKS AT ALL TIMES THROUGH THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PEDESTRIAN WALKWAYS WHERE EXISTING WALKWAYS ARE IN CLOSE PROXIMITY TO EXCAVATIONS OR WORK AREAS OR ARE OTHERWISE OBSTRUCTED.

SAND DUNE RESTORATION NOTES

1. PERFORMANCE OF WORK SHALL BE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND THE ORDER OF CONDITIONS ISSUED BY THE SWAMPSCOTT CONSERVATION COMMISSION FOR THE REFERENCED PROJECT AS DESCRIBED HEREIN.
2. [illegible] FACE MAY SCARP DURING THE INITIAL RE-ADJUSTMENT PERIOD.
3. DUNE REPLENISHMENT MATERIAL SHALL BE RE-GRADED TO SLOPES INDICATED ON PLANS AFTER PLACEMENT.
4. [illegible] REQUIRED THAT THE CONTRACTOR HAVE THE SEDIMENT SOURCE TESTED AT CASSIDY PARK AND PHILLIPS' BY A QUALIFIED LABORATORY TO ENSURE ADEQUATE BEACH COMPATIBILITY PRIOR TO ANY PLACEMENT OF THE NOURISHMENT MATERIAL. SIEVE ANALYSES OF THE EXISTING SAND AND THE PROPOSED SEDIMENT SOURCE AT CASSIDY PARK AND PHILLIPS' BEACH SHALL BE SUBMITTED TO THE ENGINEER TO DEMONSTRATE COMPATIBILITY.
5. SAND USED FOR DUNE AND BEACH REPLENISHMENT SHALL BE COMPATIBLE TO EXISTING DUNE AND BEACH MATERIAL. CONTRACTOR SHALL PERFORM A SIEVE ANALYSIS TO DETERMINE COMPATIBLE SAND.
6. ONLY CLEAN COMPATIBLE FILL SHALL BE USED FOR FILL AND COVER FOR THIS PROJECT.
7. DURING PERIODS OF HIGH WATER LEVELS, ALL EQUIPMENT WILL BE MOVED TO A CONSTRUCTION ACCESS AREA ELEVATED ABOVE THE HIGH WATER LEVEL. THE CONSTRUCTION ACCESS AREA(S) SHALL BE DESIGNATED PRIOR TO THE START OF CONSTRUCTION.
8. [illegible] PLANS.
9. [illegible] DETAILS PRESENTED ON THE PLAN AND ONLY EXTEND ON THE AREAS INDICATED ON THE PLAN.
10. CONSTRUCTION ACCESS WILL BE FROM THE RIGHT OF WAY ACCESS TO THE BEACH ONLY. CONTRACTOR MAY NOT BE PERMITTED TO TRAVEL ALONG THE BEACH, PARALLEL TO THE WATER TO APPROACH PROJECT AREA. UPON COMPLETION ALL DISTURBED AREAS TO BE RE-GRADED AND RE-VEGETATED TO MATCH PRE-CONSTRUCTION CONDITIONS.
11. [illegible] APPLY FERTILIZER 30 DAYS AFTER PLANTING, BUT NOT BEFORE APRIL 1. SPLIT THE FERTILIZER APPLICATIONS: ONE IN SPRING AND ANOTHER IN THE LATE SUMMER OR EARLY FALL. APPLY NO MORE THAN 1 POUND OF NITROGEN PER 1,000 SQUARE FEET IN A SINGLE APPLICATION. ONCE THE STAND IS ESTABLISHED, THE RATE OF FERTILIZER CAN BE REDUCED BY HALF OR APPLIED ONLY WHEN THE STAND APPEARS TO BE WEAKENING.
12. THE CONTRACTOR SHALL NOT VARY FROM THE PLANS, SPECIFICATIONS, ORDER OF CONDITIONS, OR INSTRUCTIONS PROVIDED AT THE PRE-CONSTRUCTION MEETING, WITHOUT FIRST OBTAINING APPROVAL OF THE CONSERVATION COMMISSION REPRESENTATIVE AND THE ENGINEER.
13. [illegible] FOLLOWING FINAL GRADING OF THE DUNE ENHANCEMENT, THE DUNE SHALL BE STABILIZED WITH GEOTEXTILE MATTING AND PLANTED

LANDSCAPING NOTES

1. GRANITE BEACH MARKERS SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER. CONTRACTOR SHALL INSTALL GRANITE BEACH MARKERS WHERE INDICATED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE SUPPORT ANCHOR BLOCK FOR EACH GRANITE BEACH MARKER. BLOCK SHALL BE 36" O.D. CONCRETE CULVERT STANDING VERTICALLY 48" BELOW GRADE. FILL WITH SAND TO 12" BELOW GRADE.
2. BIKE RACK FOOTINGS SHALL BE CONCRETE CYLINDERS THAT ARE 12" IN DIAMETER AND 18" IN HEIGHT. SURFACE DEPTH SHALL COMPLY WITH ASTM AND CPSC SPECIFICATIONS. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. OUTDOOR SHOWER AND WATER STATION FEATURES SHALL BE DIRECT BURIED UTILIZING ADAPTOR, AS REQUIRED BY MANUFACTURER. BOTH STATIONS SHALL BE SUITABLE FOR WINTERIZING. CONTRACTOR SHALL FOLLOW MANUFACTURER INSTRUCTIONS FOR INSTALLATIONS.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEMOLISHED MATERIALS, RUBBISH, EXCAVATED MATERIAL AND DEBRIS, UNLESS OTHERWISE NOTED, AND IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL DISPOSAL PERMITS AT NO ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR SHALL DISPOSE OF ASPHALT, BRICK, AND CONCRETE IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE REGULATIONS
3. CONTRACTOR SHALL REMOVE EXISTING BARRELLS, SIGNS, BENCHES AND SITE FEATURES FROM THE PROJECT SITE AND STORE. SUCH SITE FEATURES SHALL BE REINSTALLED IN LOCATIONS DIRECTED BY THE OWNER.
4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION.
5. EXISTING FENCING SHALL BE MAINTAINED IN PLACE AND PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY DAMAGED FENCING AT NO ADDITIONAL COST TO THE OWNER.
6. EXISTING TREES SHALL BE PROTECTED IN-PLACE THROUGHOUT THE DURATION OF CONSTRUCTION UNLESS CALLED OUT FOR REMOVAL.
7. EXISTING BEACH GRASS SHALL REMAIN. CONTRACTOR SHALL BURY IN PLACE WITH COMPATIBLE IMPORTED SAND.

EXISTING LEGEND

- UTILITY POLE
- UTILITY POLE WITH LIGHT
- WATER GATE
- FIRE HYDRANT
- CATCH BASIN
- DRAIN MANHOLE
- SEWER MANHOLE
- HANDICAP PARKING
- SIGN (SINGLE POSTED)
- ROCK
- POST
- NPV — NO PIPES VISIBLE
- RCP — REINFORCED CONCRETE PIPE
- GIS PROPERTY LINE
- CHAIN LINK FENCE
- WOOD FENCE
- TREE LINE
- 12 — INTERMEDIATE CONTOURS
- 10 — INDEX CONTOURS
- WETLAND LINE
- OHW — OVERHEAD WIRES
- S — SEWER LINE
- D — DRAIN LINE
- W — WATER LINE

PROPOSED LEGEND

- REMOVE AND DISPOSE
- CONCRETE PAVER PLAZA
- PLANTING AREA (GRASS)
- SHRUB PLANTING
- ACCESS MAT
- SAND DUNE OR UNPAVED PARKING AREA
- STRAW WATTLE
- WORK ZONE
- ACCESS MAT (PROFILE)
- VEGETATED SAND DUNE (PROFILE)
- 9.65' — PROPOSED SPOT GRADE
- 10.50' — PROPOSED CONTOUR
- PROPOSED GRANITE CURB
- PROPOSED BIKE RACK
- PROPOSED BEACH SIGN
- VGC — PROPOSED VERTICAL GRANITE CURB

RECORD DRAWING

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REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	8/15/2022

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

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WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

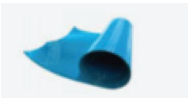
Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

GENERAL NOTES

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

G-1

CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy+Phillips Design And Construction (AVP)\Drawings\Production Drawings\General Notes.dwg LAYOUT: GENERAL NOTES PLOTTED: 7/19/2022 4:00 PM BY: umang chauhan

FEATURE	PICTURE	DESCRIPTION	MANUFACTURER	MODEL	FINISH AND COLOR	LOCATION AND QUANTITY
BIKE PARKING		SECURE BIKE PARKING WITH IN GROUND MOUNT. SEE NOTES ON SHEET G-1 FOR FOOTING REQUIREMENTS.	DERO	DER-BH-IG	BLUE POWDER COAT	CASSIDY PARK - 1 PHILLIPS' BEACH - 3
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 MOUNTING REQUIREMENTS.	PARK N POOL CORP.	35SH-6800SS	STAINLESS STEEL COAT BLUE COLOR	PHILLIPS' BEACH - 1
ACCESS MAT		BROWN COLOR ACCESS MAT, ADA ACCESSIBLE, POLYESTER ROLL. 5-FT WIDE AT CASSIDY PARK BEACH, 10-FT WIDE AT PHILLIPS BEACH.	ACCESS REC, LLC	AM5-50 /AM10-33	POLYESTER BROWN	PHILLIPS' BEACH - 300 FT CASSIDY PARK BEACH - 150 FT
POST AND ROPE		WOOD POST WITH ¾" WHITE POLY ROPE RAILING POSTS SPACED 8-FT O.C. POSTS MUST BE EMBEDDED 48" MINIMUM BELOW GRADE.	SPAULDING FENCE & SUPPLY CO.	-----	WHITE CEDAR POST	CASSIDY PARK - 382 LF
WATER FOUNTAIN		STEEL TRI LEVEL PEDESTAL OUTDOOR ADA HEIGHT WATER STATION, WITH MOUNTING PLATE, IN GROUND FROST PROOF VALVE. SEE NOTES ON SHEET G-1 FOR MOUNTING REQUIREMENTS.	ELKAY SPECIFICATIONS	LK4420BF1UDBBLU	BLUE COLOR	PHILLIPS' BEACH - 1
BENCH		BENCH SHALL BE 6-FT LONG AND CONSTRUCTED OF ASTM A48 CLASS 30 CAST IRON SUPPORTS AND WOODEN SLATS. BENCH SHALL BE MOUNTED TO THE EARTH WITH MANUFACTURER SUPPLIED MOUNTING KIT. WOOD SLAT MATERIAL SHALL BE AS SELECTED BY OWNER	DUMOR, INC.	SERIES 57-60	COAT WITH ZINC EPOXY PRIMER AND POWDER FINISH IN COMPLIANCE WITH ASTM-D-523, ASTM-D-3363, ASTM-D-1737, ASTM-D-3359, ASTM-D-2794, ASTM-B-117,ASTM-D-3451	PHILLIPS' BEACH - 2

RECORD DRAWING

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WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

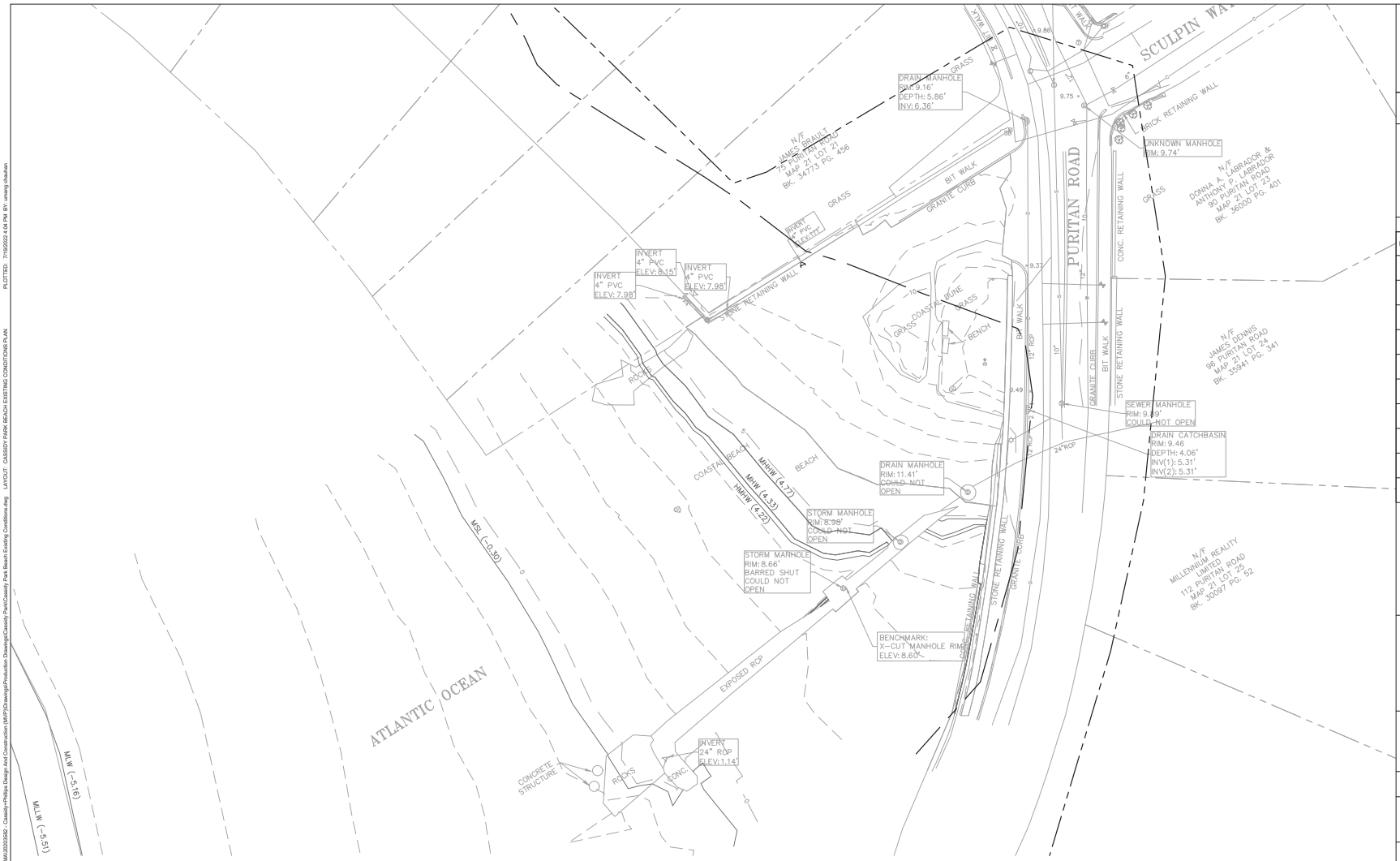
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GENERAL SITE FEATURES

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APPROVED BY	BM

G-2

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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

NOTES:
1. THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP IN APRIL 2020.

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.

RECORD DRAWING

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SCALE VERIFICATION

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

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

CASSIDY PARK BEACH
SWAMPSCOTT, MA 01907

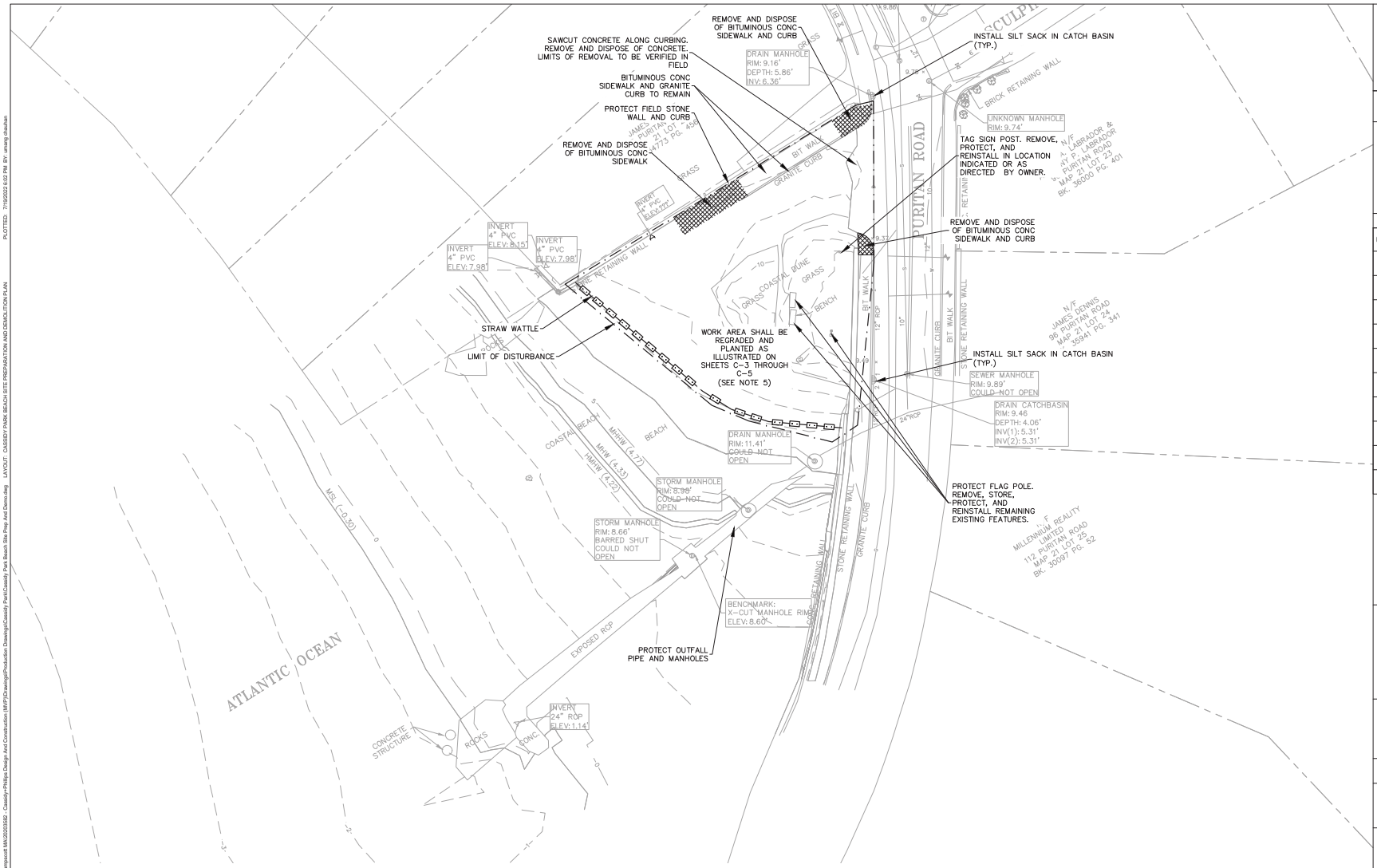
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CASSIDY PARK BEACH EXISTING CONDITIONS PLAN

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
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DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-1

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SITE PREPARATION NOTES

1. CONSTRUCT WHEEL WASH PAD AT CONSTRUCTION EXIT(S).
2. SECURE THE SITE WITH TEMPORARY CONSTRUCTION FENCE PRIOR TO WORK.
3. INSTALL/MAINTAIN SILT SACK FOR ALL EXISTING CATCH BASINS ON PUBLIC ROADS AROUND THE SITE PERIMETER.
4. CONTRACTOR SHALL REMOVE ALL SIGNANGE AND TRASH CANS TEMPORARILY OFF-SITE AND REPLACE AFTER CONSTRUCTION HAS BEEN COMPLETED. CONTRACTOR TO COORDINATE WITH TOWN OF SWAMPSCOTT.
5. EXISTING BEACH GRASS SHALL REMAIN. CONTRACTOR SHALL BURY IN PLACE WITH COMPATIBLE IMPORTED SAND.
6. CONTRACTOR SHALL PHOTOGRAPH AND SURVEY LOCATIONS OF EXISTING PAINT STRIPING PRIOR TO DEMOLITION.

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

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WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

CASSIDY PARK BEACH
SWAMPSCOTT, MA 01907

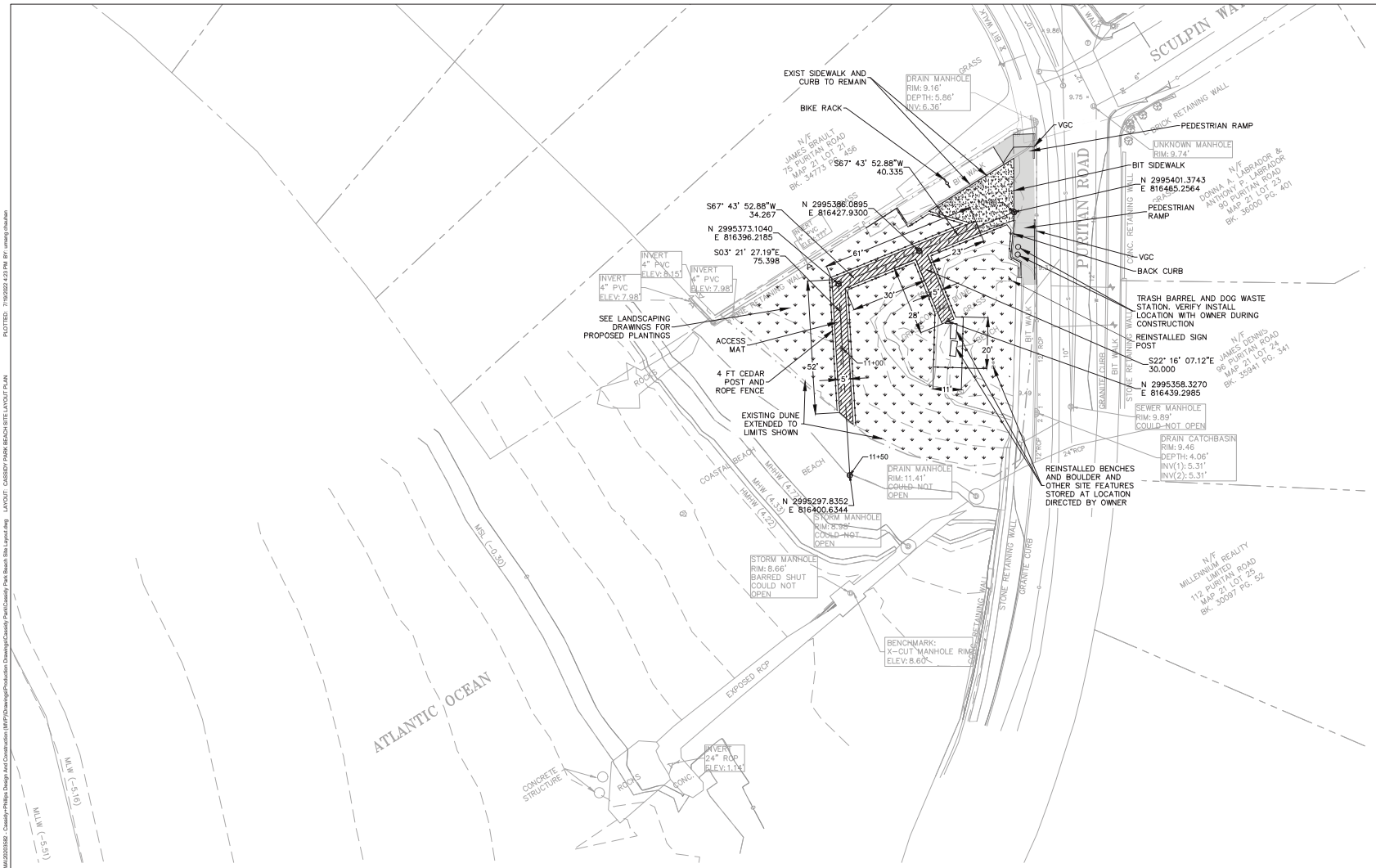
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CASSIDY PARK BEACH SITE PREPARATION AND DEMOLITION PLAN

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DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-2

CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy-Phillips Design And Construction (MVP)\Drawings\Production Drawings\Cassidy Park\Cassidy Park Beach Sta Prep And Demo.dwg LAYOUT: CASSIDY PARK BEACH SITE PREPARATION AND DEMOLITION PLAN PLOTTED: 7/15/2022 6:02 PM BY: umang dhuhan



SITE LAYOUT NOTES

1. SEE SHEETS C-4 AND C-5 FOR PROPOSED GRADING.
2. BLEND SAND DUNE INTO EXISTING BEACH.
3. ACCESS MAT SHALL BE INSTALLED AND ANCHORED PER MANUFACTURERS REQUIREMENTS.
4. BIKE RACK SHALL BE SURFACE MOUNTED TO EXISTING SIDEWALK

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

RECORD DRAWING

KLEINFELDER
Bright People. Right Solutions.
One Beacon Street, Suite 8100
Boston, MA 02108
Phone: 617-497-7800
www.kleinfelder.com

REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

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

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

CASSIDY PARK BEACH
SWAMPSCOTT, MA 01907

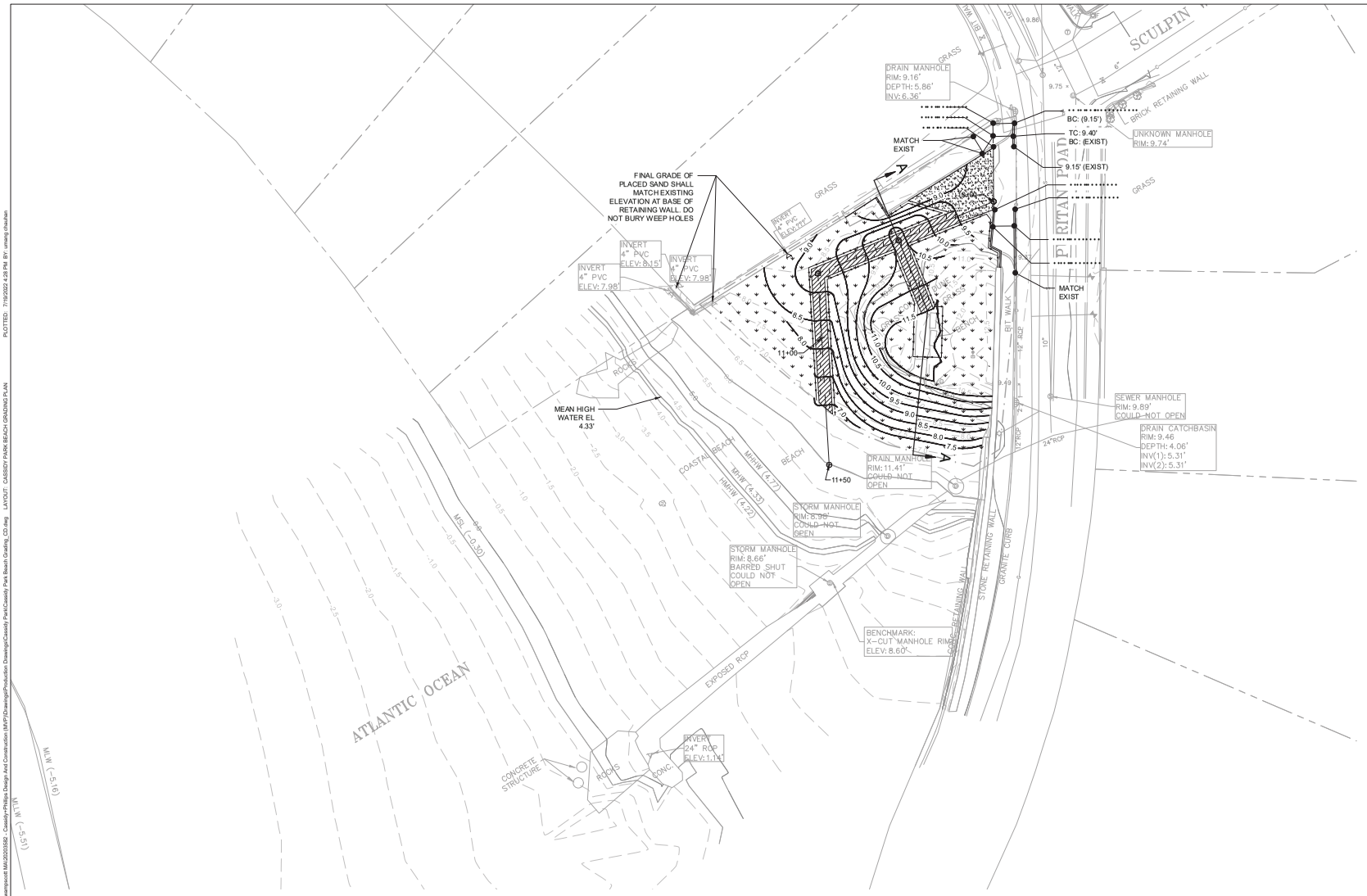
Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

CASSIDY PARK BEACH SITE LAYOUT PLAN

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-3

CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy-Phillips Design And Construction (AKP)\Drawings\Production Drawings\Cassidy Park\Cassidy Park Beach Site Layout.dwg LAYOUT: CASSIDY PARK BEACH SITE LAYOUT PLAN PLOTTED: 7/19/2022 4:23 PM BY: umang.chauhan



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

1. CONTRACTOR SHALL PLACE COMPATIBLE BEACH SAND, WHERE INDICATED, TO BLEND NEW WORK INTO EXISTING BEACH.
2. ALL CROSS-SLOPES SHALL NOT EXCEED 1.5%. ALL WALKING SURFACE SLOPES SHALL NOT EXCEED 4.5%.
3. APPROXIMATE VOLUME OF PLACED SAND PURCHASED SHALL BE 125 CY. A TOTAL OF APPROXIMATELY 125 CY SHALL BE GRADED.
4. REFER TO LANDSCAPE PLAN SHEET L101 FOR PLANTING SOIL LOCATIONS.

RECORD DRAWING

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REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

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

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

CASSIDY PARK BEACH
SWAMPSCOTT, MA 01907

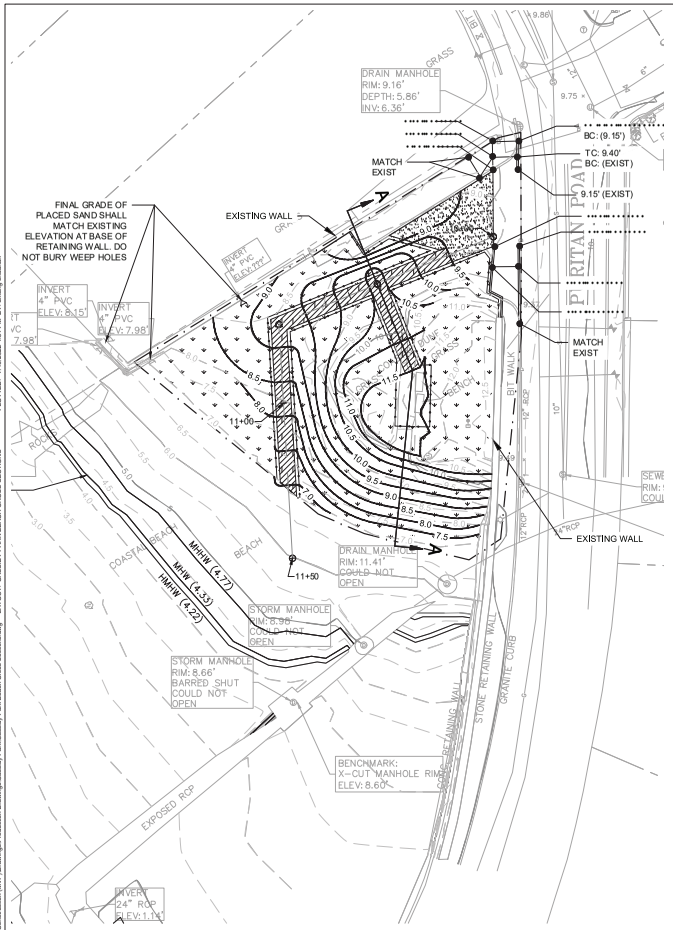
Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

CASSIDY PARK BEACH GRADING PLAN

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

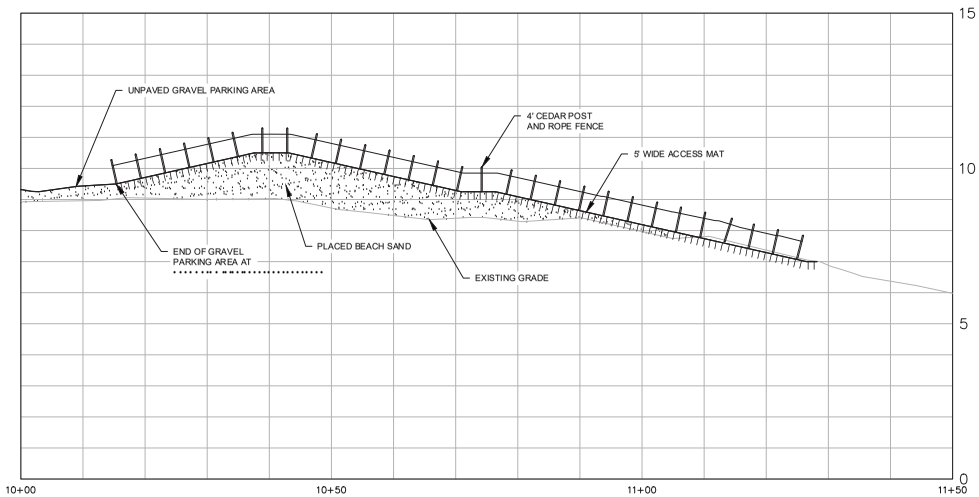
C-4

CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy-Phillips Design And Construction (AVP)\Drawings\Production Drawings\Cassidy Park\Cassidy Park Beach Grading_C0.dwg LAYOUT: CASSIDY PARK BEACH GRADING PLAN PLOTTED: 7/8/2022 4:28 PM BY: umang chauhan



PLAN

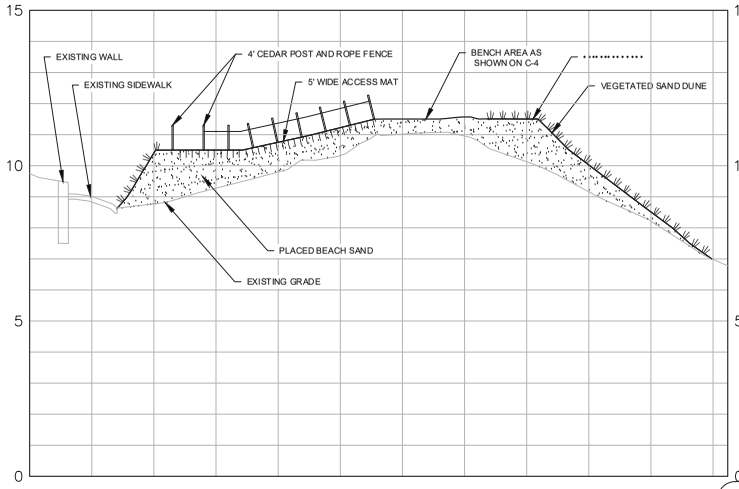
SCALE: 1" = 20'



PROFILE

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1"=2'

HORIZONTAL SCALE: 1" = 10'
10 5 0 10 20
VERTICAL SCALE: 1"=2'
2 1 0 2 4



A-A SECTION

C-5

SCALE: 1" = 10'

HORIZONTAL SCALE: 1" = 10'
10 5 0 10 20
VERTICAL SCALE: 1"=2'
2 1 0 2 4

GRADING NOTES

1. APPROXIMATE VOLUME OF PLACED SAND PURCHASED SHALL BE 125 CY. A TOTAL OF APPROXIMATELY 125 CY SHALL BE GRADED.

RECORD DRAWING

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REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

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

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

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

CASSIDY PARK BEACH
SWAMPSCOTT, MA 01907

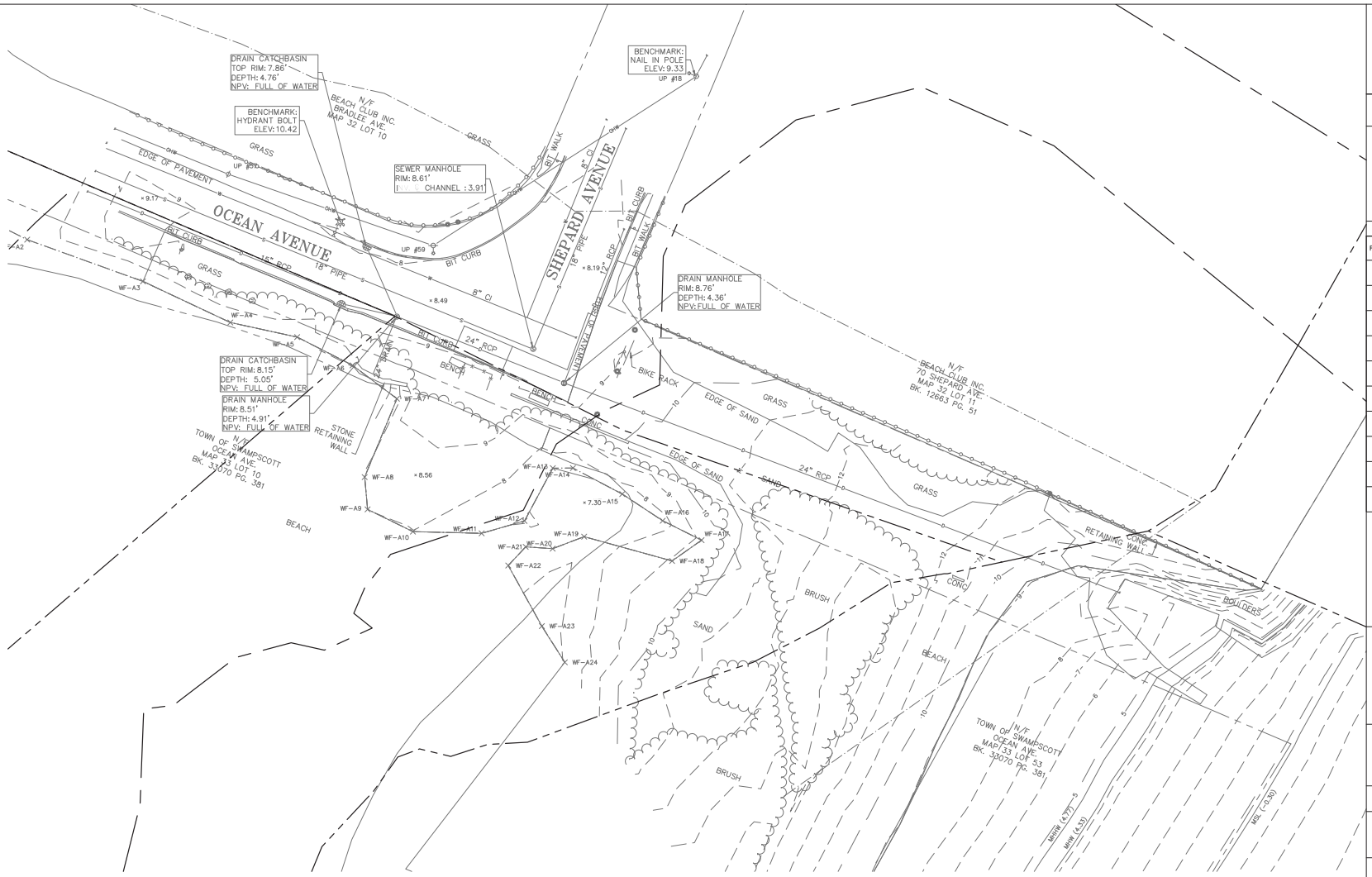
Town of Swampscott
22 Monument Ave.
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781-596-8850

CASSIDY PARK BEACH CROSS SECTIONS

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-5

PLOTTED: 7/8/2022 4:31 PM BY: umang.chauhan
LAYOUT: CASSIDY PARK BEACH CROSS SECTIONS
CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy-Phillips Design And Construction (AKP)\Drawings\Production Drawings\Cassidy Park\Cassidy Park Beach Cross Sections.dwg



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

NOTES:
1. THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP IN APRIL 2020.

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.

RECORD DRAWING

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REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

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

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907

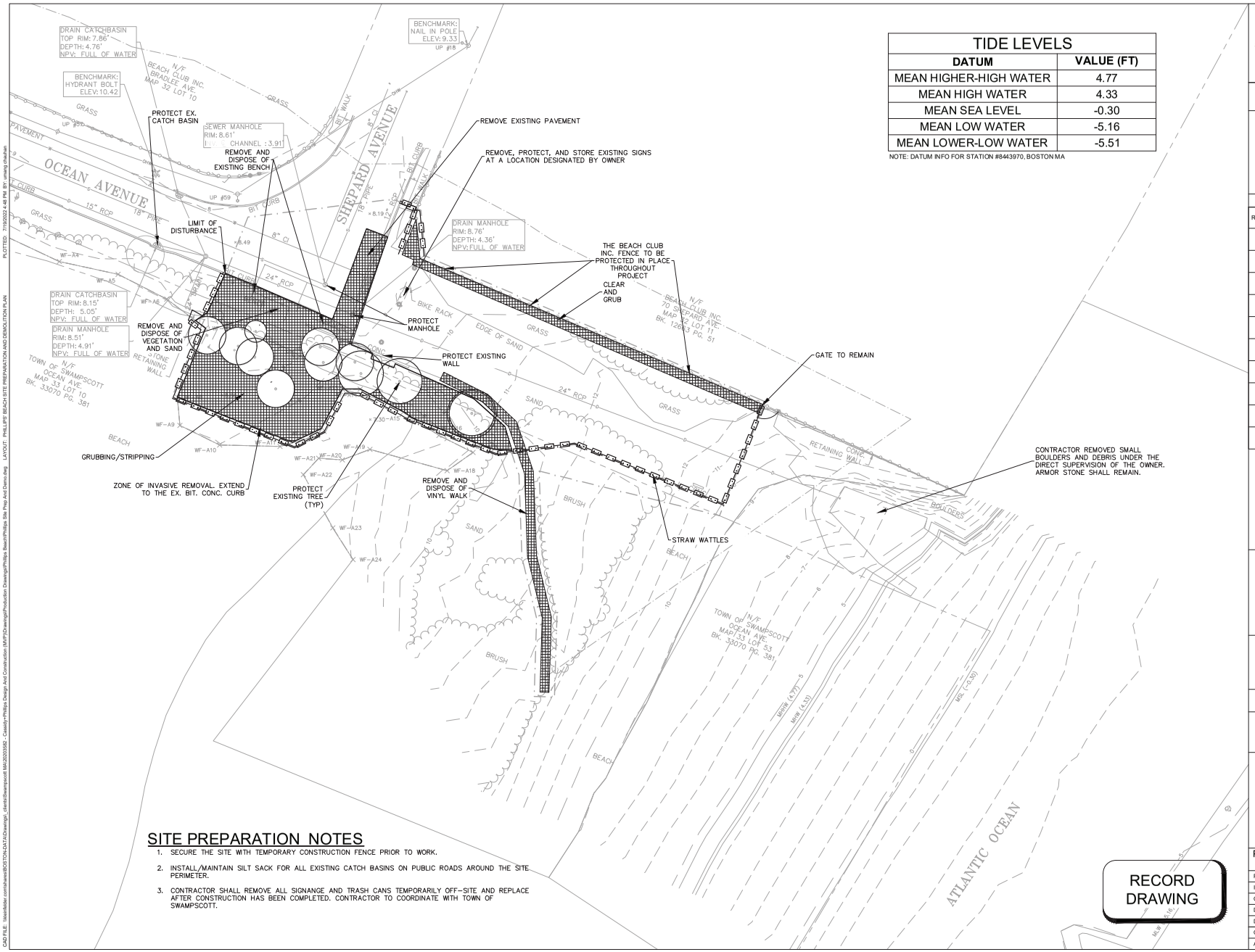
Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

PHILLIPS' BEACH EXISTING CONDITIONS

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-6

CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy-Phillips Design And Construction (AVP)\Drawings\Production Drawings\Phillips Beach\Phillips Existing Conditions.dwg LAYOUT: PHILLIPS' BEACH EXISTING CONDITIONS PLAN PLOTTED: 7/15/2022 4:46 PM BY: umang chauhan



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 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 SIGNANGE AND TRASH CANS TEMPORARILY OFF-SITE AND REPLACE AFTER CONSTRUCTION HAS BEEN COMPLETED. CONTRACTOR TO COORDINATE WITH TOWN OF SWAMPSCOTT.

RECORD DRAWING

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Boston, MA 02108
Phone: 617-497-7800
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REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

0 1"

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0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907

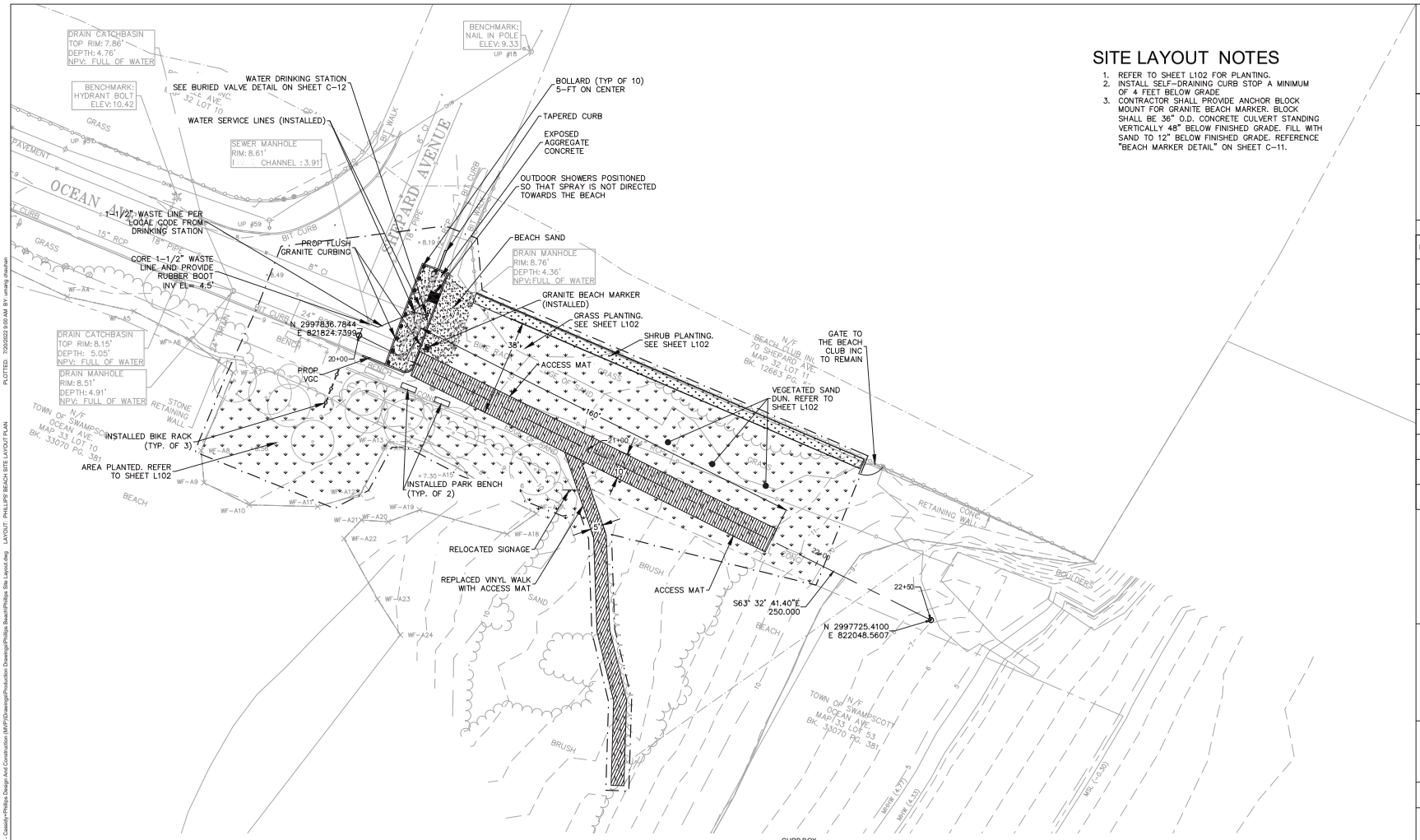
Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

PHILLIPS' BEACH SITE PREPARATION AND DEMOLITION PLAN

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-7

PLOTTED: 7/15/2022 4:48 PM BY: umeng dhauhan
LAYOUT: PHILLIPS BEACH SITE PREPARATION AND DEMOLITION PLAN
CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy-Phillips Design And Construction (MVP)\Drawings\Production Drawings\Phillips Beach\Phillips Site Prep And Demo.dwg

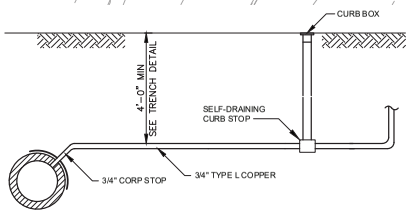


SITE LAYOUT NOTES

1. REFER TO SHEET L102 FOR PLANTING.
2. INSTALL SELF-DRAINING CURB STOP A MINIMUM OF 4 FEET BELOW GRADE
3. CONTRACTOR SHALL PROVIDE ANCHOR BLOCK MOUNT FOR GRANITE BEACH MARKER. BLOCK SHALL BE 36" O.D. CONCRETE CULVERT STANDING VERTICALLY 48" BELOW FINISHED GRADE. FILL WITH SAND TO 12" BELOW FINISHED GRADE. REFERENCE "BEACH MARKER DETAIL" ON SHEET C-11.

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



WATER SERVICE DETAIL

SCALE: N.T.S.

NOTE:
1. SEPERATE WATER SERVICE SHALL BE PROVIDED FOR WATER FOUNTAIN AND OUTDOOR SHOWER

RECORD DRAWING

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Boston, MA 02108
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REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

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

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907

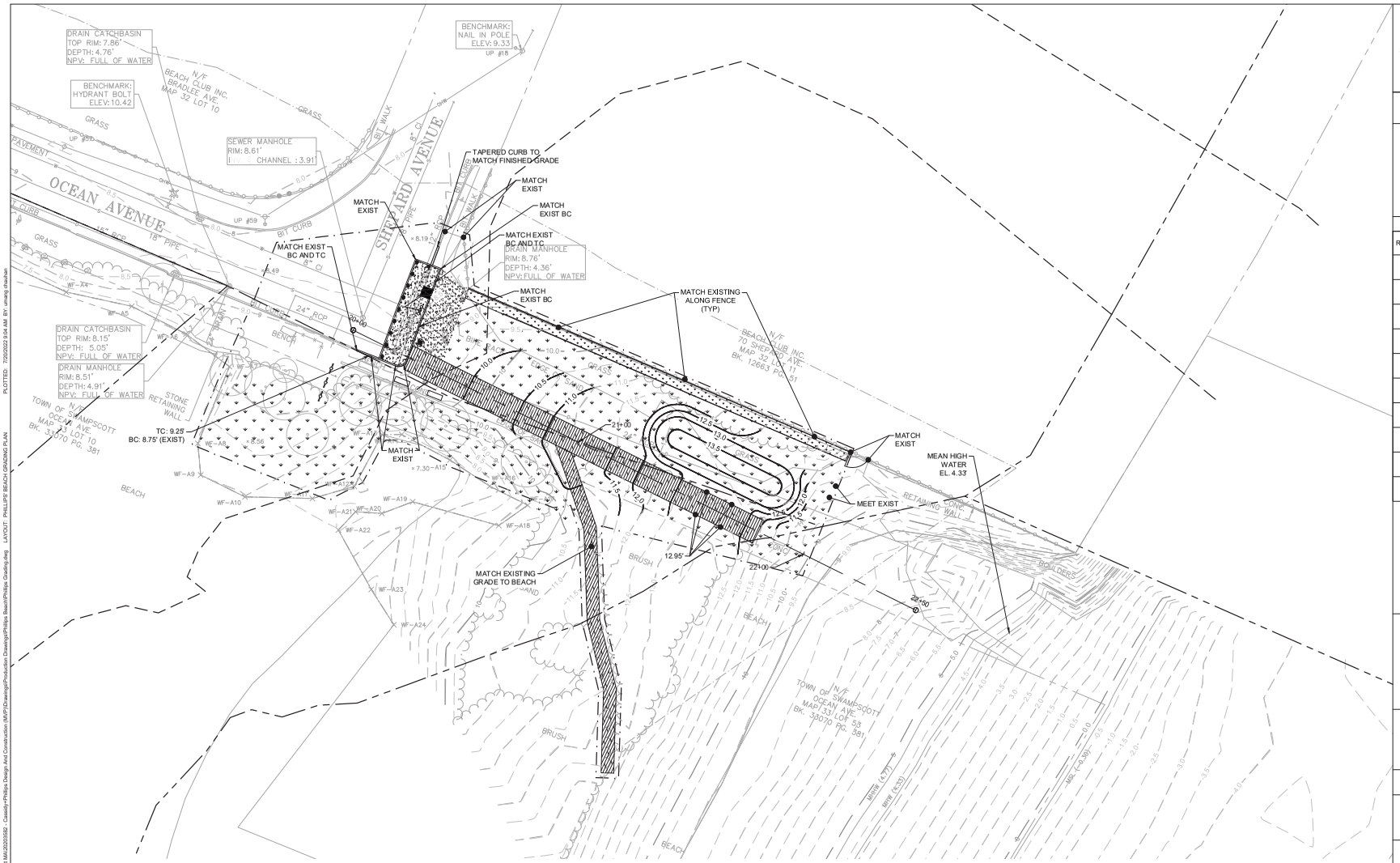
Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

PHILLIPS' BEACH SITE LAYOUT PLAN

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-8

CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy-Phillips Design And Construction (AVP)\Drawings\Production Drawings\Phillips Beach\Phillips Site Layout.dwg LAYOUT: PHILLIPS BEACH SITE LAYOUT PLAN PLOTTED: 7/20/2022 9:00 AM BY: umang dhadwin



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

1. CONTRACTOR SHALL PLACE COMPATIBLE BEACH SAND, WHERE INDICATED, TO BLEND NEW WORK INTO EXISTING BEACH.
2. ALL CROSS-SLOPES SHALL NOT EXCEED 1.5%. ALL WALKING SURFACE SLOPES SHALL NOT EXCEED 4.5%.
3. APPROXIMATE VOLUME OF PLACED SAND SHALL BE 62 CY.

RECORD DRAWING

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Boston, MA 02108
Phone: 617-497-7800
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REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

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

0 20 40 60

SCALE: 1" = 20' SCALE IN FEET

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907

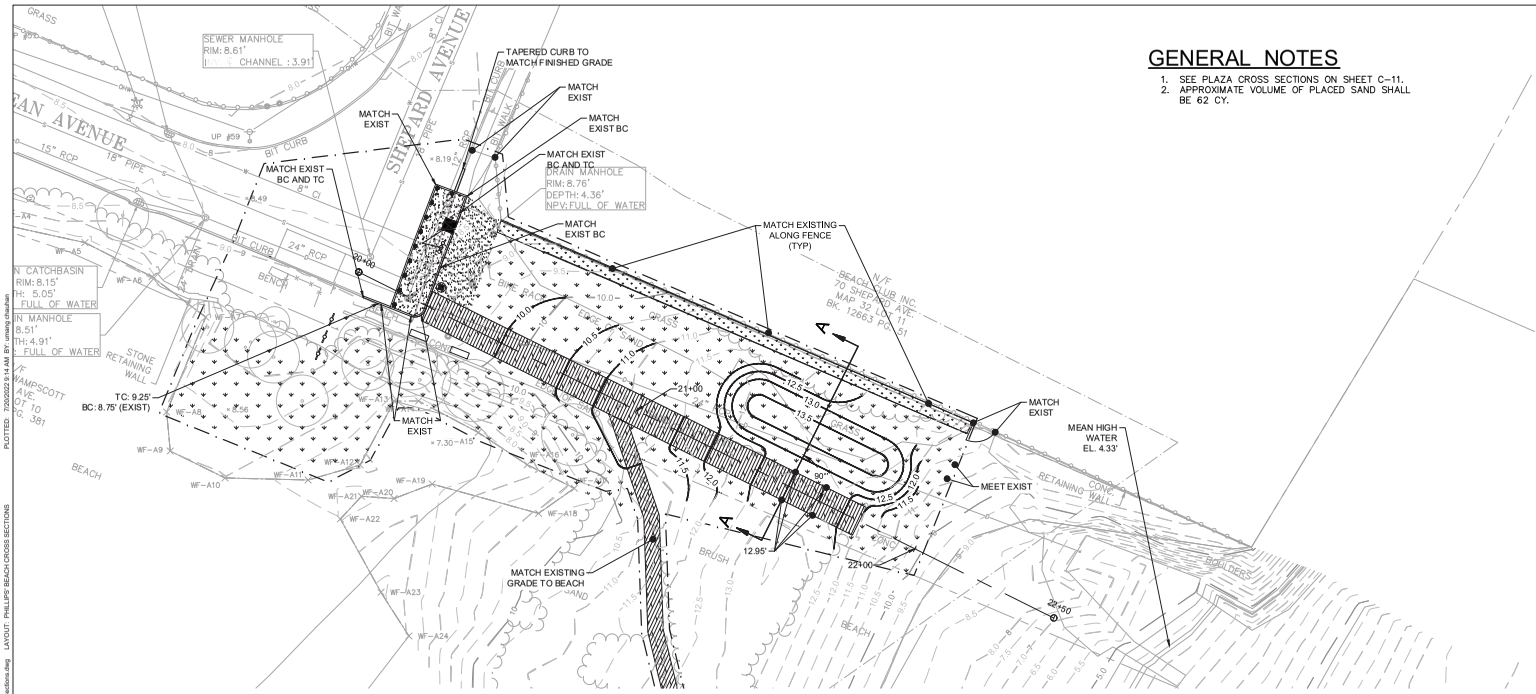
Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

PHILLIPS' BEACH GRADING PLAN

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-9

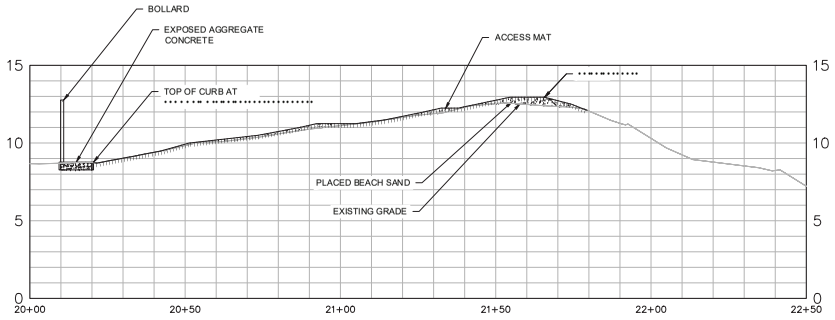
CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy-Phillips Design And Construction (MVP)\Drawings\Production Drawings\Phillips Beach\Phillips Grading.dwg LAYOUT: PHILLIPS BEACH GRADING PLAN PLOTTED: 7/20/2022 9:04 AM BY: umang.dalwhan



PLAN
SCALE: 1" = 20'

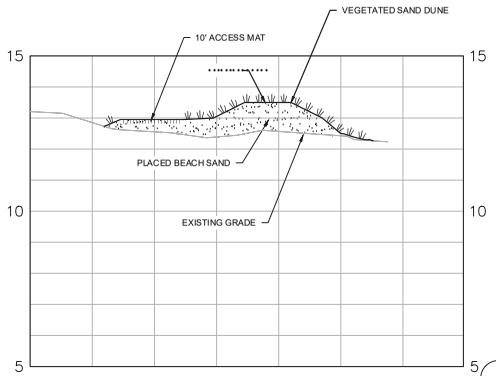
GENERAL NOTES

1. SEE PLAZA CROSS SECTIONS ON SHEET C-11.
2. APPROXIMATE VOLUME OF PLACED SAND SHALL BE 62 CY.



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

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



A-A SECTION
SCALE: 1" = 10'

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1"=2'

RECORD DRAWING

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REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

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

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

WATER FRONT ACCESS AND FLOOD PROTECTION DESIGN AT CASSIDY PARK AND PHILLIPS BEACH

PHILLIPS' BEACH
SWAMPSCOTT, MA 01907

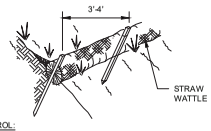
Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

PHILLIPS' BEACH CROSS SECTIONS

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-10

PLOTTED: 7/20/2022 8:14 AM BY: umang chauhan
LAYOUT: PHILLIPS' BEACH CROSS SECTIONS
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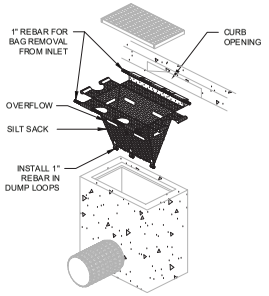


NOTES FOR EROSION CONTROL:

1. 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.
2. STRAW WATTLES SHALL BE PLACED ALONG SLOPE CONTOURS.
3. ADJACENT WATTLES SHALL TIGHTLY ABUT.

TYPICAL STRAW WATTLE DETAIL

SCALE: N.T.S.

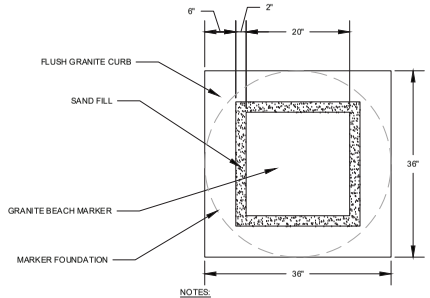


NOTES FOR EROSION CONTROL:

1. CONTRACTOR SHALL REMOVE SEDIMENT AS NECESSARY TO MAINTAIN LEVEL BELOW OVERFLOW HOLES IN SILT SACK.
2. SILT SACK SHALL BE USED ON ALL EXISTING CATCH BASINS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SEDIMENTATION BARRIERS THROUGHOUT THE DURATION OF THE PROJECT.
4. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF SEDIMENT AS REQUIRED.
5. 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.

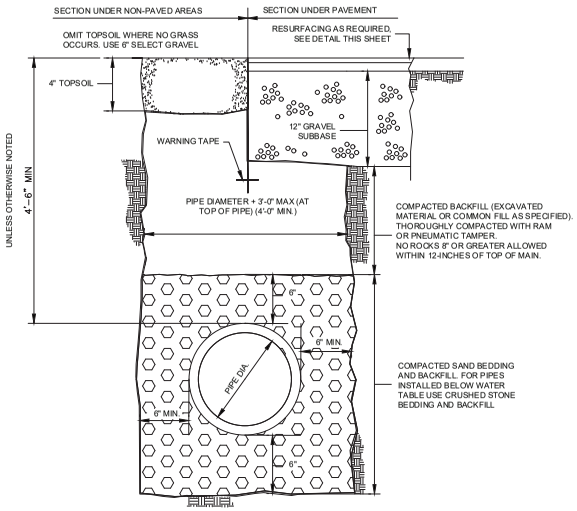


NOTES:

1. CONTRACTOR TO LEVEL GRANITE BEACH MARKER BEFORE FINALIZING INSTALLATION.

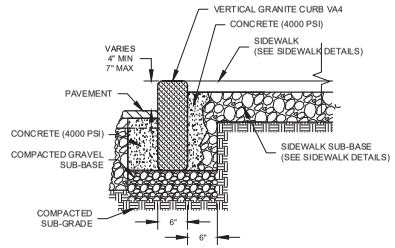
BEACH MARKER DETAIL

SCALE: N.T.S.



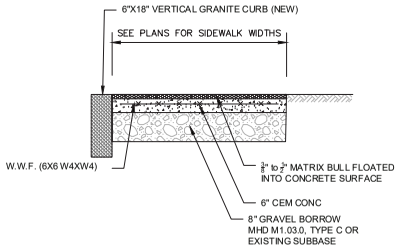
TYPICAL TRENCH DETAIL

SCALE: N.T.S.



VERTICAL GRANITE CURB DETAIL

SCALE: N.T.S.



6" CEMENT CONCRETE EXPOSED AGGREGATE SIDEWALK

SCALE: N.T.S.

RECORD DRAWING

KLEINFELDER
Bright People. Right Solutions.
One Beacon Street, Suite 8100
Boston, MA 02108
Phone: 617-497-7800
www.kleinfelder.com

REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

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 AT CASSIDY PARK AND PHILLIPS BEACH

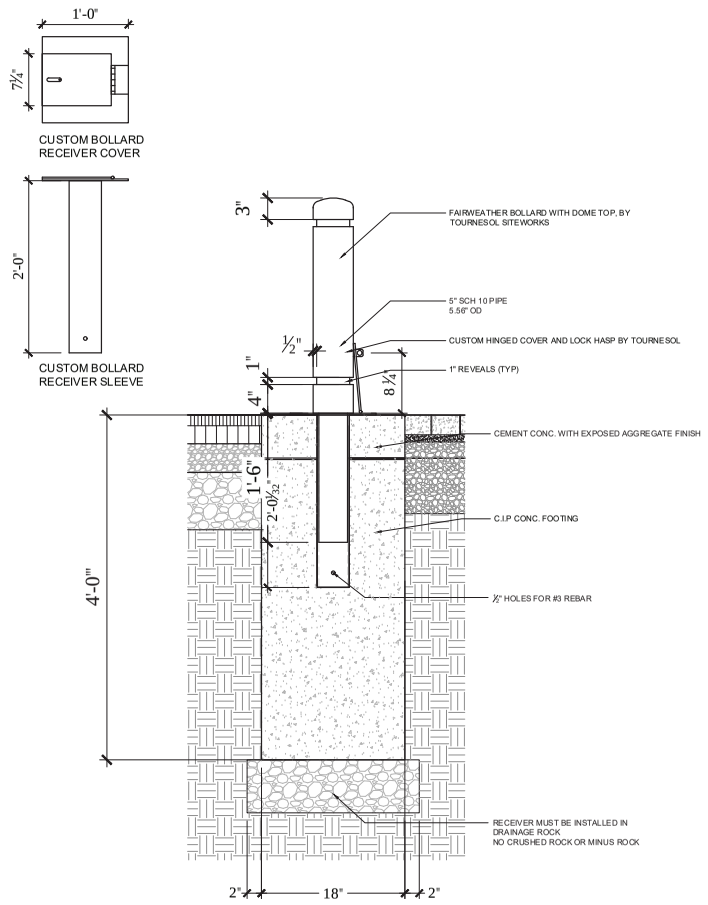
Town of Swampscott
22 Monument Ave.
Swampscott, MA 01907-1977
781-596-8850

DETAILS I

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

C-11

CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy+Phillips Design And Construction (AKP)\Drawings\Production Drawings\Details.dwg LAYOUT: DETAILS I PLOTTED: 7/19/2022 3:58 PM BY: umang chauhan

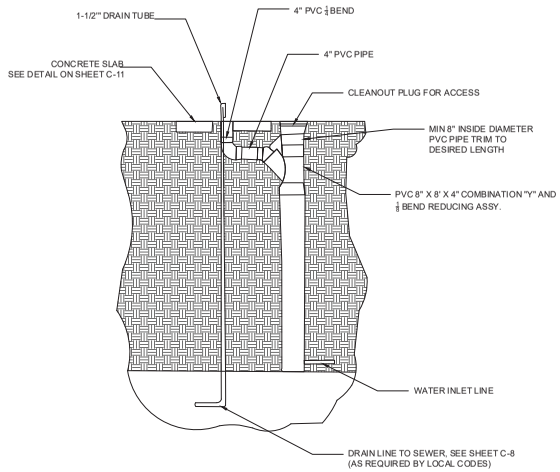


BOLLARD

SCALE: N.T.S.

NOTES:

1. CONTRACTOR SHALL SUBMIT A PRODUCT SHEET MATCHING THIS DETAIL THE SUBMITTAL SHALL INCLUDE A PHYSICAL SAMPLE OF COLOR CHIPS AND A LISTING OF WHAT COLORS ARE INCLUDED UNDER STANDARD PRICING AND WHAT COLORS HAVE A PREMIUM CHARGE



DRINKING FOUNTAIN BURIED VALVE DETAIL

SCALE: N.T.S.

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One Beacon Street, Suite 8100
Boston, MA 02108
Phone: 617-497-7800
www.kleinfelder.com

REVISIONS

REV	DESCRIPTION	DSN DWN	CHK APP	DATE
1	RECORD DRAWINGS	UC	DP	6/15/2022

SCALE VERIFICATION

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 AT CASSIDY PARK AND PHILLIPS BEACH

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

DETAILS II

PROJECT NO.	20203582
ISSUE DATE	05/25/2021
CURRENT REVISION	100%
DESIGNED BY	CD
DRAWN BY	AS
CHECKED BY	DP
APPROVED BY	BM

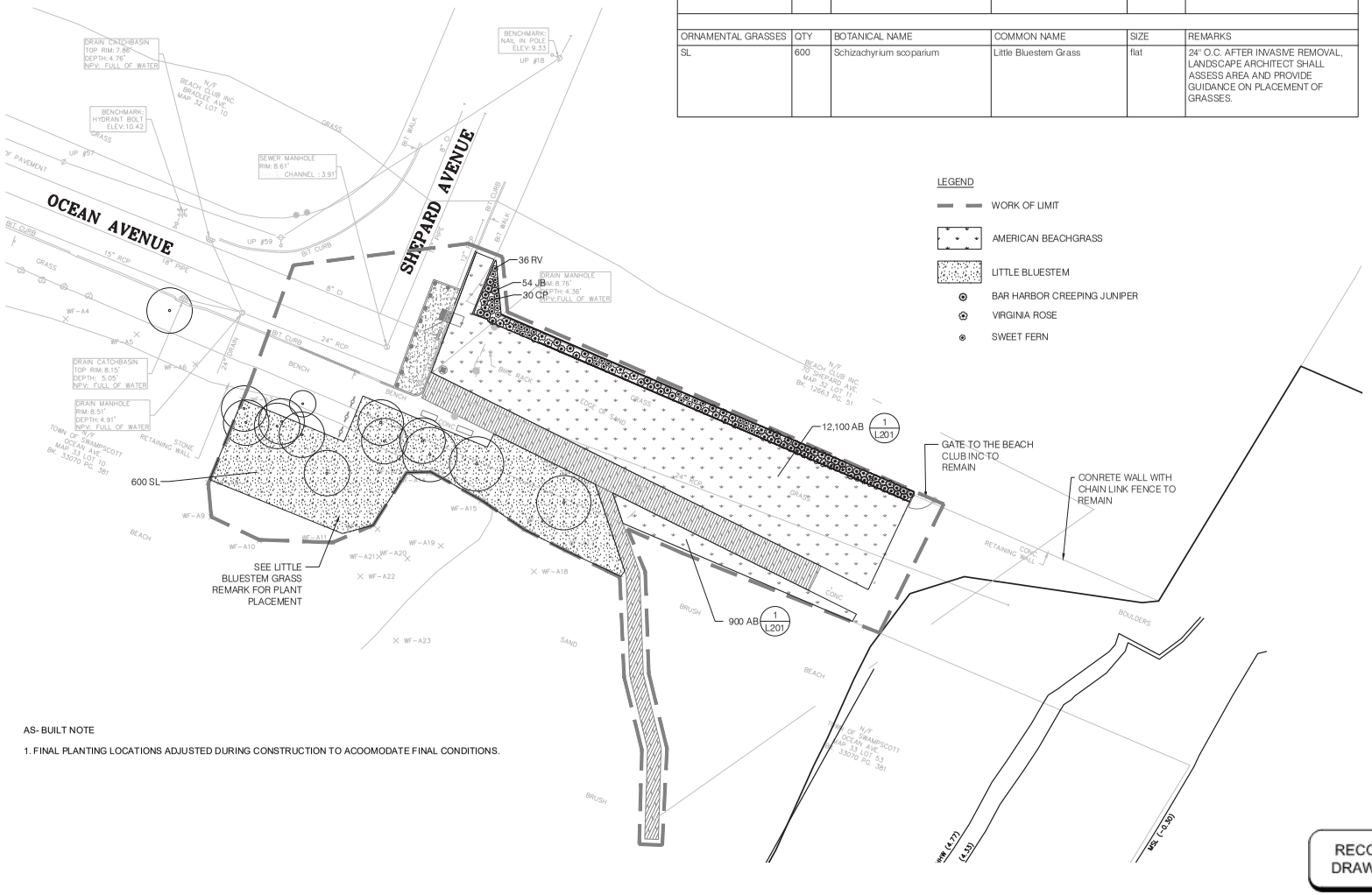
C-12

RECORD DRAWING

CAD FILE: \\kleinfelder.com\shares\BOSTON-DATA\Drawings_clients\Swampscott MA\20203582 - Cassidy+Phillips Design And Construction (AKP)\Drawings\Production Drawings\Details.dwg LAYOUT: DETAILS II PLOTTED: 7/19/2022 3:55 PM BY: umang chauhan

PLANT_SCHEDULE

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
CP	31	Comptonia peregrina	Sweet Fern	#2 pot	3` O.C.
JB	55	Juniperus horizontalis `Bar Harbor`	Bar Harbor Creeping Juniper	#3 pot	3` O.C.
RV	37	Rosa virginiana	Virginia Rose	2.5-3` B&B	3` O.C.
BEACHGRASS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AB	13,000	Ammophila breviligulata	American Beachgrass	culm	2 culms per hole, triangular spacing
ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
SL	600	Schizachyrium scoparium	Little Bluestem Grass	flat	24" O.C. AFTER INVASIVE REMOVAL, LANDSCAPE ARCHITECT SHALL ASSESS AREA AND PROVIDE GUIDANCE ON PLACEMENT OF GRASSES.



AS- BUILT NOTE

1. FINAL PLANTING LOCATIONS ADJUSTED DURING CONSTRUCTION TO ACOOMODATE FINAL CONDITIONS.

RECORD DRAWING

kmdg
KLOPFER MARTIN DESIGN GROUP
69 CANAL STREET | 2ND FLOOR
BOSTON, MA 02114
t: 617.227.2560
www.klopfermartin.com

CLIENT:

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

REVISIONS:

REV	DATE	NOTE

PROJECT:

SWAMPSCOTT
Phillip's Beach

DRAWING:

PLANTING PLAN

DRAWN: MF
REVIEW: MK

SCALE: 1:20

DATE: XX AUGUST 2021

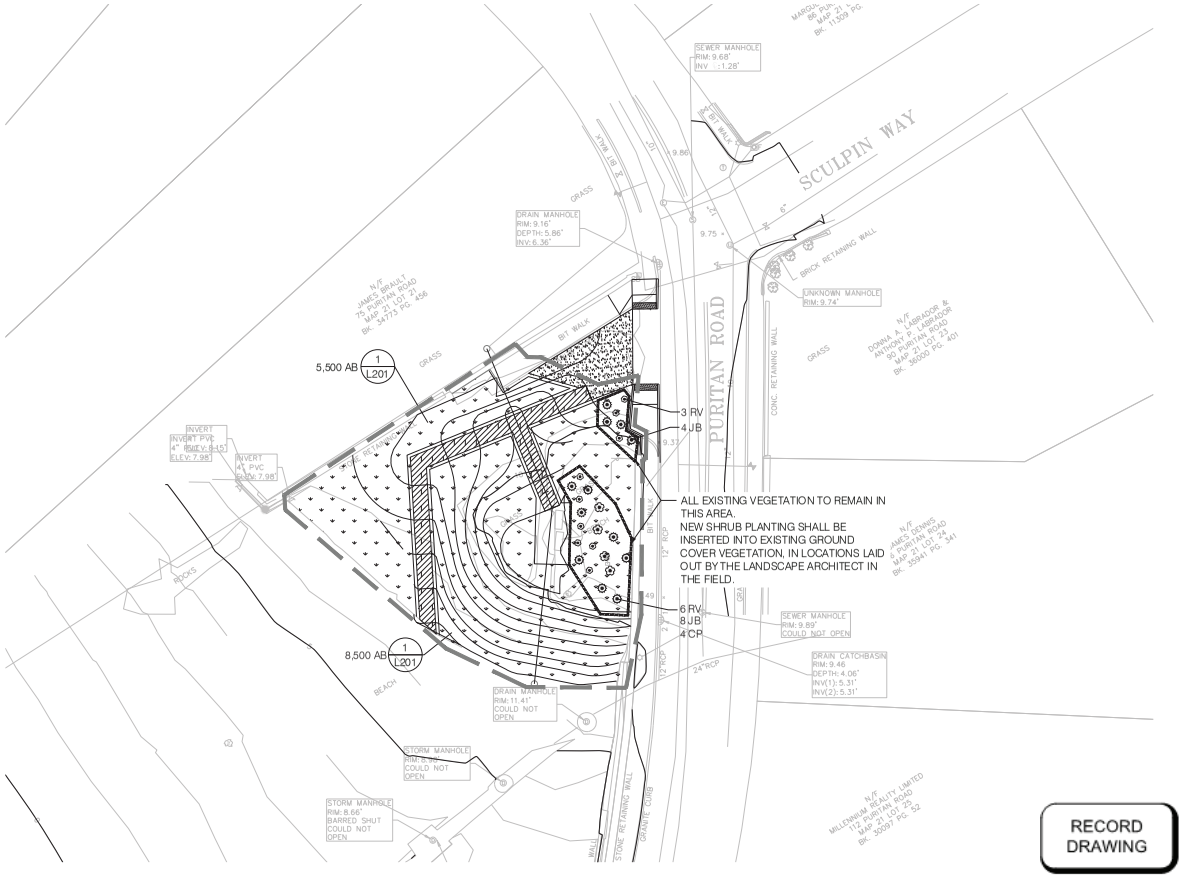
SHEET:

L101

AS- BUILT NOTE:

1. FINAL PLANTING LOCATIONS ADJUSTED DURING CONSTRUCTION TO ACOOMODATE FINAL CONDITIONS.

PLANT_SCHEDULE					
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
CP	4	Comptonia peregrina	Sweet Fern	#2 pot	3' O.C.
JB	12	Juniperus horizontalis `Bar Harbor`	Bar Harbor Creeping Juniper	#3 pot	3' O.C.
RV	9	Rosa virginiana	Virginia Rose	2.5-3` B&B	3' O.C.
BEACHGRASS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AB	14,000	Ammophila brevilgulata	American Beachgrass	culm	2 culms per hole, triangular spacing



LEGEND

- WORK OF LIMIT
- AMERICAN BEACHGRASS
- BAR HARBOR CREEPING JUNIPER
- VIRGINIA ROSE
- SWEET FERN

RECORD DRAWING

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22 Monument Ave.
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REVISIONS:

REV	DATE	NOTE

PROJECT:

SWAMPSCOTT
Cassidy Park

DRAWING:

PLANTING PLAN

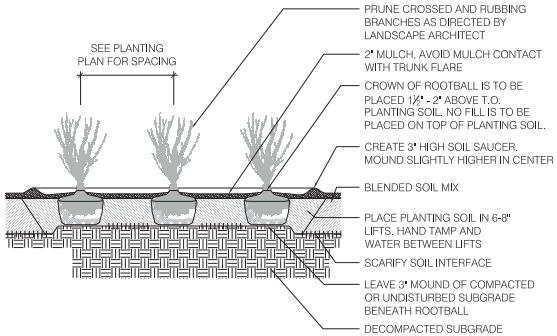
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REVIEW: MK

SCALE: 1:20

DATE: XX AUGUST 2021

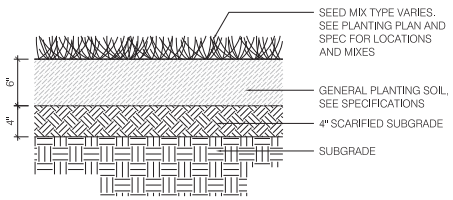
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L102



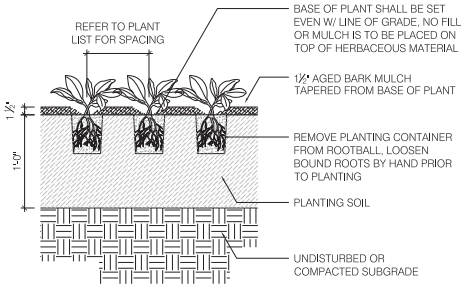
2 SHRUB PLANTING

SCALE: 1/2" = 1'-0"



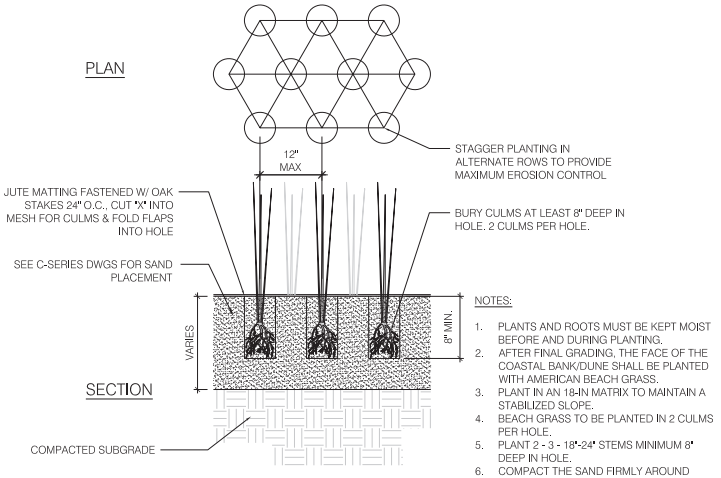
4 LOAM AND SEED

SCALE: 1 1/2" = 1'-0"



3 ORNAMENTAL GRASS PLANTING

SCALE: 1 1/2" = 1'-0"



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.
3. PLANT IN AN 18-IN MATRIX TO MAINTAIN A STABILIZED SLOPE.
4. BEACH GRASS TO BE PLANTED IN 2 CULMS PER HOLE.
5. PLANT 2 - 3 - 18"-24" STEMS MINIMUM 8" DEEP IN HOLE.
6. COMPACT THE SAND FIRMLY AROUND PLANTS.
7. INSTALL GRASS BETWEEN OCTOBER 1 AND APRIL 30 ONLY. DO NOT PLANT WHEN SOIL IS FROZEN.

1 BEACH GRASS PLANTING

SCALE: 1 1/2" = 1'-0"

RECORD DRAWING

kmdg
KLOPFER MARTIN DESIGN GROUP

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REVISIONS:

REV	DATE	NOTE

PROJECT:

SWAMPSCOTT
Phillip's Beach

DRAWING:

DETAILS

DRAWN: MF
REVIEW: MK

SCALE:
AS NOTED

DATE:
XX AUGUST 2021

SHEET:

L201