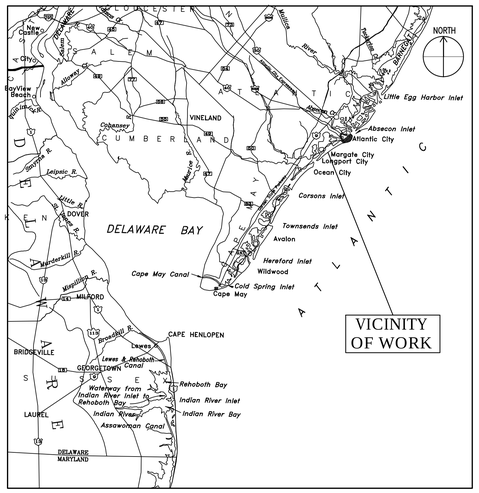
INITIAL BEACHFILL
MARGATE AND LONGPORT

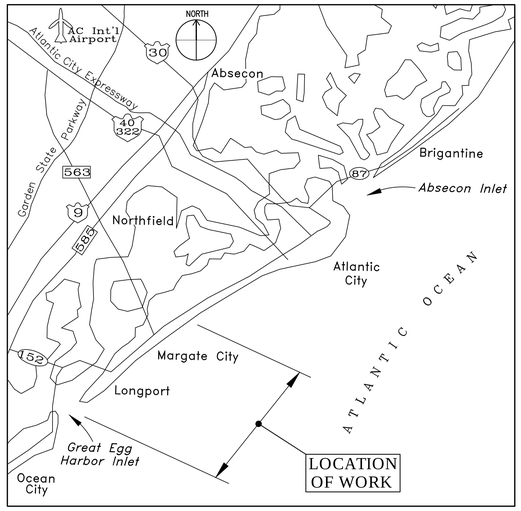
BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY

IFB W912BU-14-B-0002



VICINITY MAP

0 5 10 20 60
SCALE IN MILES



LOCATION MAP

2.5 0 2.5 5 10
SCALE IN MILES

DRAWING INDEX	
SHEET NUMBER	DESCRIPTION
GENERAL	
CS-100	COVER SHEET
CIVIL	
C-001	GENERAL INFORMATION SHEET
C-002	GEOMETRY – PROFILE ORIGIN POINTS
C-100	GENERAL PLAN
C-101	BORROW AREA REFERENCE PLAN
C-102	PLAN – STA. 226+50 TO STA. 261+36
C-103	PLAN – STA. 261+36 TO STA. 296+34
C-104	PLAN – STA. 296+34 TO STA. 331+18
C-105	PLAN – STA. 331+18 TO STA. 366+11
C-106	PLAN – STA. 366+11 TO STA. 401+66
C-107	PLAN – STA. 401+66 TO STA. 430+20
C-108	PLAN – BORROW AREA H AND PIPE RESTRICTION ZONE
C-200	TYPICAL SECTIONS – BEACHFILL
C-300	CROSS SECTIONS – STA. 250+00 TO STA. 340+00
C-301	CROSS SECTIONS – STA. 350+00 TO STA. 426+00
C-400	DETAILS – DUNE CONSTRUCTION
C-401	DETAILS – PEDESTRIAN AND VEHICULAR CROSSOVERS
C-402	DETAILS – HANDICAP CROSSOVER
C-403	DETAILS – OUTFALL SUPPORTS
C-500	PROFILE – OUTFALLS

THIS PROJECT WAS DESIGNED BY THE PHILADELPHIA DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

SUBMITTED:

JOSE R. ALVAREZ, P.E.
CHIEF, ENGINEERING BRANCH

APPROVED:

PETER M. TRANCHIK, P.E.
CHIEF, ENGINEERING AND CONSTRUCTION DIVISION

US Army Corps of Engineers
Philadelphia District

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PHILADELPHIA, PA 19107-3390
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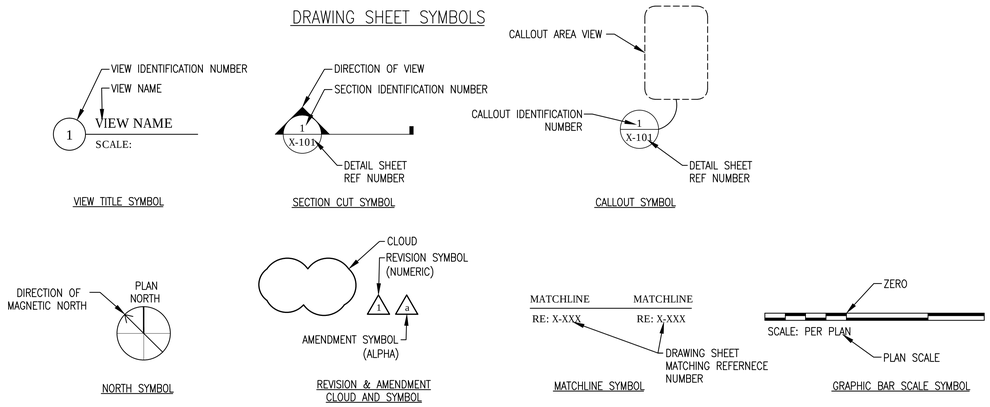
DWN BY: DTB
CKD BY: DMA
DESIGNED BY: DTB
REVIEWED BY: TEH
ISSUE/RELEASE DATE: 8/Fri.-22-NOV-13
PROJ. NUMBER:
SOLICITATION NUMBER: IFB W912BU-14-B-0002
CONTRACT NUMBER: -
DWG. SCALE: AS SHOWN
DWG. SIZE: 36"X42" ANSI E
FILE NAME: CS-100.DWG

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
COVER SHEET

SHEET NUMBER
CS-100

SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

DRAWING SHEET SYMBOLS



ABBREVIATIONS

ABBRV	DESCRIPTION	ABBRV	DESCRIPTION	ABBRV	DESCRIPTION
AD	AREA DRAIN	FF	FINISHED FLOOR	PSI	POUNDS PER SQUARE INCH
ADDL	ADDITIONAL	FIN	FINISH	PVI	POST INDICATOR VALVE
AFF	ABOVE FINISHED FLOOR	FL	FLOOR	RAD	RADIUS
BD	BOARD	FM	FORCE MAIN	REINF	REINFORCEMENT
BIT	BITUMINOUS	FT	FOOT, FEET	REM	REMOVABLE
BL	BASE LINE	FTG	FOOTING	ROW	RIGHT OF WAY
BLDG	BUILDING	G	GROUND	S	SOUTH
BM	BEAM	GOVT	GOVERNMENT	SCH	SCHEDULE
BMP	BEST MANAGEMENT PRACTICE	GR	GRADE	SECT	SECTION
BOT	BOTTOM	HORIZ	HORIZONTAL	SPEC	SPECIFICATION
BVCE	BEGINNING OF VERTICAL CURVE ELEVATION	HS	HIGH STRENGTH	SPRT	SUPPORT
BVCS	BEGINNING OF VERTICAL CURVE STATION	HT	HEIGHT	SQ	SQUARE
CMU	CONCRETE MASONRY UNIT	HVY	HEAVY	SST	STAINLESS STEEL
CO	CLEAN OUT	IN	INCH	STA	STATION
COL	COLUMN	INSUL	INSULATION, INSULATED	STD	STANDARD
CONC	CONCRETE	IINT	INTERIOR	STRUCT	STRUCTURAL
CONSTR	CONSTRUCTION	INV	INVERT	SUSP	SUSPENDED
CONT	CONTINUOUS	LL	LIVE LOAD	SYS	SYSTEM
CTRL	CONTROL	LP	LOW POINT	TEMP	TEMPORARY
CWL	CONTRACTOR WORK LIMITS	LT	LIGHT	TD	TRENCH DRAIN
DET	DETAIL	LVC	LENGTH OF VERTICAL CURVE	TDO	TRENCH DRAIN OUTLET PIPE
DGA	DENSE GRADED AGGREGATE	JCT	JUNCTION	TELE	TELEPHONE
DIA	DIAMETER	MATL	MATERIAL	TOPO	TOPOGRAPHY
DIM	DIMENSION	MAX	MAXIMUM	TYP	TYPICAL
DL	DEAD LOAD	MIN	MINIMUM	UD	UNDERDRAIN
DWG	DRAWING	MISC	MISCELLANEOUS	UDO	UNDERDRAIN OUTLET PIPE
E	EAST	N	NORTH	UE	UNDERGROUND ELECTRIC
EA	EACH	NLT	NOT LESS THAN	UGND	UNDERGROUND
ECM	EROSION CONTROL MAT	NTS	NOT TO SCALE	UNO	UNLESS NOTED OTHERWISE
EJ	EXPANSION JOINT	OC	ORIGINAL CONSTRUCTION	UOP	UNDERDRAIN OUTLET PIPE
EL	ELEVATION	OD	OUTSIDE DIAMETER	UXO	UNEXPLODED ORDINANCE
ELEC	ELECTRIC	OH	OVERHEAD	VB	VINYL BASE
EOP	EDGE OF PAVEMENT	OPG	OPENING	VC	VERTICAL CURVE
EOS	EDGE OF SHOULDER	OPP	OPPOSITE	VCT	VINYL COMPOSITION TILE
EQ	EQUAL	PC	POINT OF CURVE	VOL	VOLUME
EQUIP	EQUIPMENT	PD	PAVEMENT DRAIN	VERT	VERTICAL
EXH	EXHAUST	PI	POINT OF INFLECTION	VTR	VENT THROUGH ROOF
EXIST	EXISTING	PI	POINT OF INFLECTION	W/	WITH
EXP	EXPANSION, EXPOSED	PIV	POINT OF VERTICAL INFLECTION	W	WEST
EXP JT	EXPANSION JOINT	POT	POINT OF TANGENT	WL	WATER LEVEL
EXT	EXTERIOR	PMP	PROBABLE MAXIMUM PRECIPITATION	WS	WATER SURFACE
FIG	FIGURE SINGLE	PNL	PANEL	W/O	WITHOUT
FDTN	FOUNDATION	PSF	POUNDS PER SQUARE FOOT		

GENERAL NOTES:

1. ELEVATIONS ARE EXPRESSED IN FEET AND TENTHS AND REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.
2. HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
3. THE CONTRACTOR WORK LIMIT AND LIMIT OF DISTURBANCE LINES SHALL BE AS SHOWN ON SHEETS C-101 TO C-106.
4. THE CONTRACTOR SHALL STAGE AND ACCESS THE SITE FROM THE LOCATIONS SHOWN ON SHEETS C-XXX AND C-XXX.
5. THE EXISTING SITE CONDITION SURVEYS ARE A RESULT OF SURVEYS CONDUCTED IN MAY OF 2013, AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE CONDITIONS OCCURRING AT THAT TIME.

CIVIL AND SITEWORK LEGEND (EXISTING)

- EXISTING PAVED ROAD
- EXISTING STORM DRAIN W/ DIAMETER AND TYPE — 12" RCP
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC LINE — E
- EXISTING WATER LINE W/ DIAMETER — W 12"
- EXISTING GAS LINE W/ DIAMETER AND TYPE — G 8" P.E.
- EXISTING SANITARY SEWER MAIN AND TYPE — S 8" RCP
- EXISTING UNDERGROUND TELEPHONE OR COMMUNICATIONS LINE — UGT
- EXISTING UNDERGROUND ELECTRIC — UE
- EXISTING WATER LINE — W
- EXISTING FIBER OPTIC LINE — FO
- EXISTING OVERHEAD ELECTRIC — OE
- EXISTING MINOR CONTOUR — 31'
- EXISTING MAJOR CONTOUR — 30'
- EXISTING SPOT ELEVATION — x1237

BEACHFILL LEGEND

- SHEET NUMBER
- EXISTING OUTFALL PIPE
- MHW — APPROXIMATE MEAN HIGH WATER LINE EL. +1.25
- MLW — APPROXIMATE MEAN LOW WATER LINE EL. −2.9
- NEW DUNE
- 40+00 — SURVEY BASELINE
- STAGING AREA
- STANDARD PEDESTRIAN DUNE CROSSOVER
- HANDICAP CROSSOVER
- VEHICLE DUNE CROSSOVER
- MATERIAL STORAGE AREA ON BEACH 100'X50'
- BP — BEACH PATROL DUNE CROSSOVER
- CONSTRUCTION WORK LIMIT
- APPROX. LOCATION OF UNDER WATER HAZARD
- STATION OFFSET — DUNE CENTERLINE AND SEAWRD EDGE OF BERM
- EXISTING STONE GROIN
- EXISTING VEGETATION
- EXISTING TIMBER GROIN
- EXISTING SAND FENCE
- HORIZONTAL AND VERTICAL CONTROL
- VIBRACORE BORING DESIGNATION
- ℄ — SURVEY BASE LINE
- ℄ — CENTER LINE

PLAN SYMBOLS LEGEND

- UTILITY POLE
- UTILITY POLE W/GUY
- FIRE HYDRANT
- WATER VALVE
- SD — MANHOLE (STORM DRAIN)
- S — MANHOLE (SEWER)
- E — MANHOLE (ELECTRIC)
- T — MANHOLE (TELEPHONE)
- ST — MANHOLE (STEAM)
- W — MANHOLE (WATER)
- UK — MANHOLE (UNKNOWN)
- EXIST. FENCE (WOOD POST & WIRE)
- LIGHT POLE
- GUARD POST
- SIGN POST
- DH-15 — DRILL HOLE LOCATION
- STANDING WATER (AT DATE OF FIELD SURVEY)
- LOD — LIMIT OF DISTURBANCE
- EXISTING WETLANDS
- ATEF SITE LIMIT
- BB-1 — BUILDING BORING
- PB-1 — PARKING LOT BORING
- TP-7B — TEST PIT LOCATION
- EXISTING TREE PLANTING
- PROPOSED TREE PLANTING
- EXISTING MINOR CONTOUR
- EXISTING INDEX CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED INDEX CONTOUR
- X — FENCELINE, CHAIN LINK
- STORM DRAIN
- UNDERGROUND TELEPHONE OR COMMUNICATIONS LINE
- UNDERGROUND ELECTRIC
- WATER LINE
- SANITARY SEWER LINE
- FIBER OPTIC LINE
- OVERHEAD ELECTRIC
- FORESTED AREAS
- WETLAND LIMITS
- EXISTING RR TRACKS
- LIMIT OF ATEF SITE
- 31' — EXISTING MINOR CONTOUR
- 30' — EXISTING MAJOR CONTOUR
- EXISTING BITUMINOUS PAVEMENT, OR GRAVEL SURFACE TO BE REMOVED
- MISCELLANEOUS REMOVAL, INCLUDING EXISTING UTILITIES, CULVERTS, CLEARING, ETC.
- PROPOSED TREE PLANTING
- EXISTING TREE PLANTING
- COORDINATE – NORTHING AND EASTING

US Army Corps of Engineers Philadelphia District

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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
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DWN BY: DTB | DESIGNED BY: DTB | ISSUE/RELEASE DATE: 90% - 22 NOV 13
CKD BY: DAN | REVIEWED BY: TEK | PROJ. NUMBER:
SOLICITATION NUMBER: (B) W912BU-14-B-0060
DWG SCALE: AS SHOWN
DWG. SIZE: 22"x34" (ANSI D)
CONTRACT NUMBER:
FILE NAME: C001.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
GENERAL INFORMATION SHEET

SHEET NUMBER
C-001

PRE/POST PLACEMENT CONDITION PROFILE ORIGIN POINTS				
MARGATE CITY AND LONGPORT CITY (ABSECON) PROFILE INFORMATION (56 LINES)				
PROFILE ID	BASELINE STATION	EASTING	NORTHING	AZIMUTH NORTH
AB051	2+50	517566.96	193823.78	147
AB001	5+00	517495.34	193584.11	147
AB052	12+00	517262.37	192936.56	149
AB002	15+50	516979.31	192730.63	150
AB053	19+50	516655.68	192495.61	150
AB054	22+00	516450.38	192353.16	151
AB003	24+75	516217.75	192206.44	152
AB055	29+00	515858.27	191979.79	153
AB004	34+00	515435.28	191713.12	153
AB005	39+00	514990.9	191484.54	154
AB006	44+00	514543.36	191261.59	154
AB056	46+00	514364.35	191172.5	154
AB007	49+00	514095.53	191039.25	155
AB008	54+00	513642.99	190826.62	156
AB009	60+00	513099.95	190571.47	157
AB010	65+00	512630.39	190408.9	158
AB011	70+00	512142.03	190301.64	159
AB012	75+00	511653.67	190194.38	159
AB013	80+00	511195.93	189994.6	159
AB014	90+00	510268.58	189627.89	158
AB015	95+00	509785.06	189500.58	158
AB016	100+00	509306.08	189359.5	158
AB017	110+00	508378.21	188986.71	157
AB018	120+00	507464.65	188580	156
AB019	130+00	506556.25	188161.91	155
AB020	140+00	505669.13	187702.39	150
AB021	150+00	504806.81	187196.13	149
AB022	160+00	503950.17	186680.22	149
AB023	170+00	503091.37	186168.17	149
AB024	180+00	502216.39	185684.06	149
AB025	190+00	501355.05	185176.04	149
AB026	200+00	500491.98	184670.95	149
AB027	210+00	499635.12	184155.54	148
AB028	220+00	498786.73	183626.21	148
AB029	225+60	498313.72	183326.46	148
AB030	240+00	497092.72	182563.06	148
AB031	250+00	496244.5	182033.42	148
AB032	260+00	495396.58	181503.3	148
AB033	270+00	494516.04	181033.01	147
AB034	284+00	493388.93	180225.16	147
AB035	290+00	492858.68	179944.39	147
AB036	300+00	492027.26	179392.89	146
AB037	310+00	491218.58	178804.66	145
AB038	320+00	490403.84	178224.96	145
AB039	330+00	489569.56	177673.61	145
AB040	340+00	488716.66	177151.68	145
AB041	350+00	487896.53	176582.53	144
AB042	360+00	487104.32	175972.31	143
AB043	370+00	486337.6	175332.2	139
AB044	380+00	485605.9	174650.58	137
AB045	390+00	484890.53	173951.88	137
AB046	400+00	484160.38	173268.74	137
AB047	410+00	483424.73	172591.37	137
AB048	420+00	482734.58	171868.17	137
AB049	426+00	482324.9	171429.81	137
AB050	433+50	481685.64	171287.63	177

NOTES:
1. COORDINATES ARE NAD83, NEW JERSEY STATE PLANE (FEET)
2. AZIMUTHS ARE REFERENCED TO GRID NORTH

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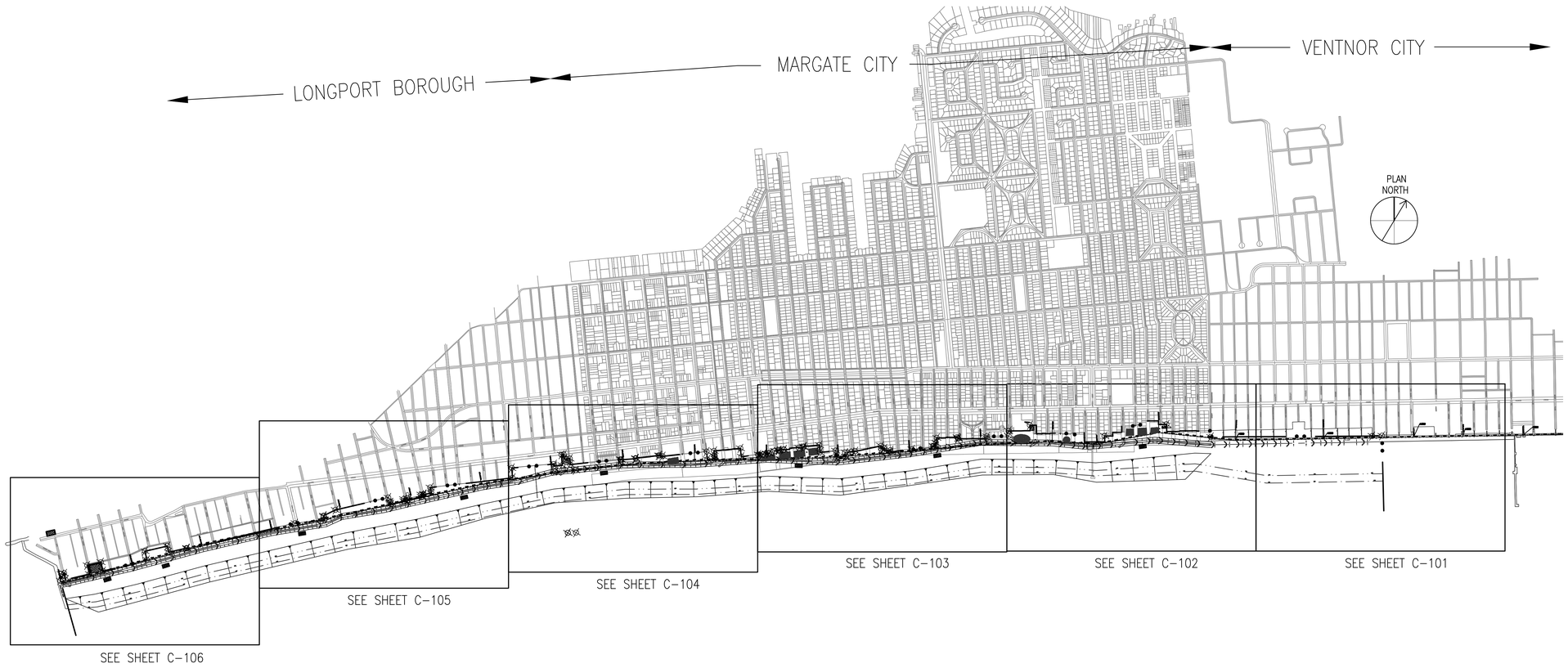
CKD BY: DAN | REVIEWED BY: TEH | PROJ. NUMBER: -
SOLICITATION NUMBER: IFB W912BU-14-B-0002
DWG SCALE: AS SHOWN | CONTRACT NUMBER: -
DWG. SIZE: 30"x42" Arch E1 | FILE NAME: C-002 GEOMETRY - SURVEY BASELINE.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY

INITIAL BEACHFILL
MARGATE AND LONGPORT

GEOMETRY - PROFILE ORIGIN POINTS

SHEET NUMBER
C-002



1 GENERAL PLAN
SCALE = 1' = 700'

700 0 700 1400
SCALE IN FEET

US Army Corps of Engineers
Philadelphia District

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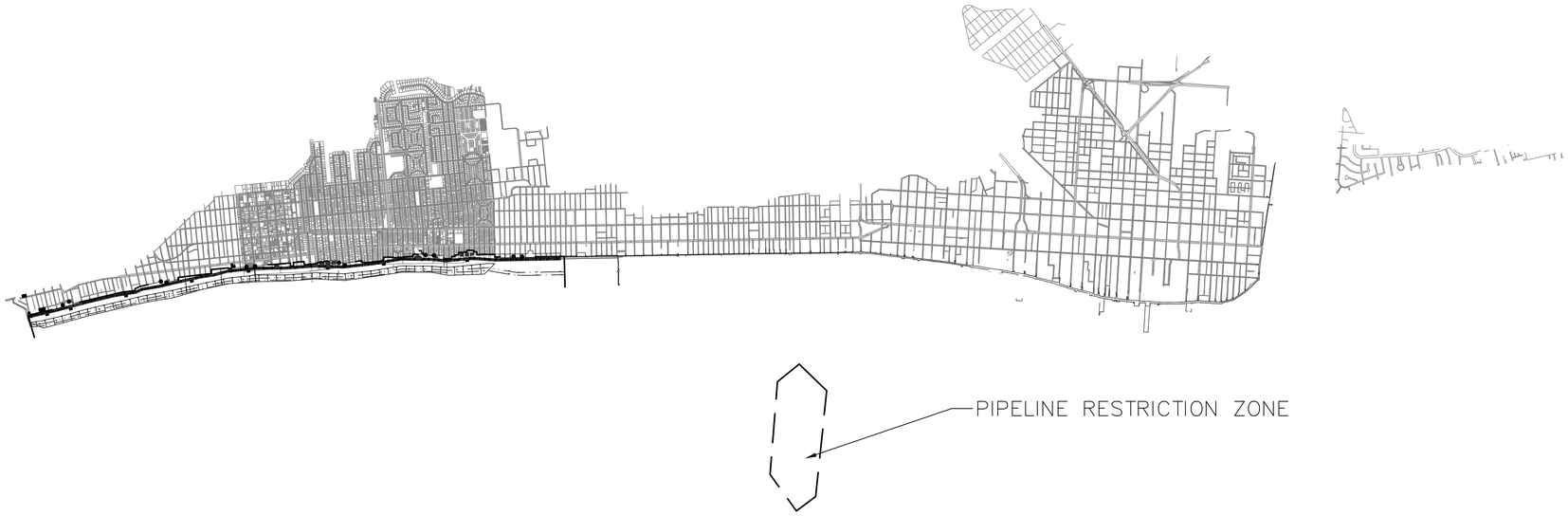
CKD BY: DAN	REVIEWED BY: RBH	PROJ. NUMBER:	
		SOLICITATION NUMBER: W912BV-14-0-0002	
DWG. SCALE: AS SHOWN		CONTRACT NUMBER:	
DWG. SIZE: 22"x34" ANSI E	FILE NAME: C-100 GENERAL PLAN REFERENCE-R-AR.dwg		

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
GENERAL PLAN
-

SHEET NUMBER
C-100



1 BORROW AREA REFERENCE PLAN

SCALE: 1" = 2000'

2000 0 2000 4000

SCALE IN FEET

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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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-	-	-	-
-	-	-	-
-	-	-	-

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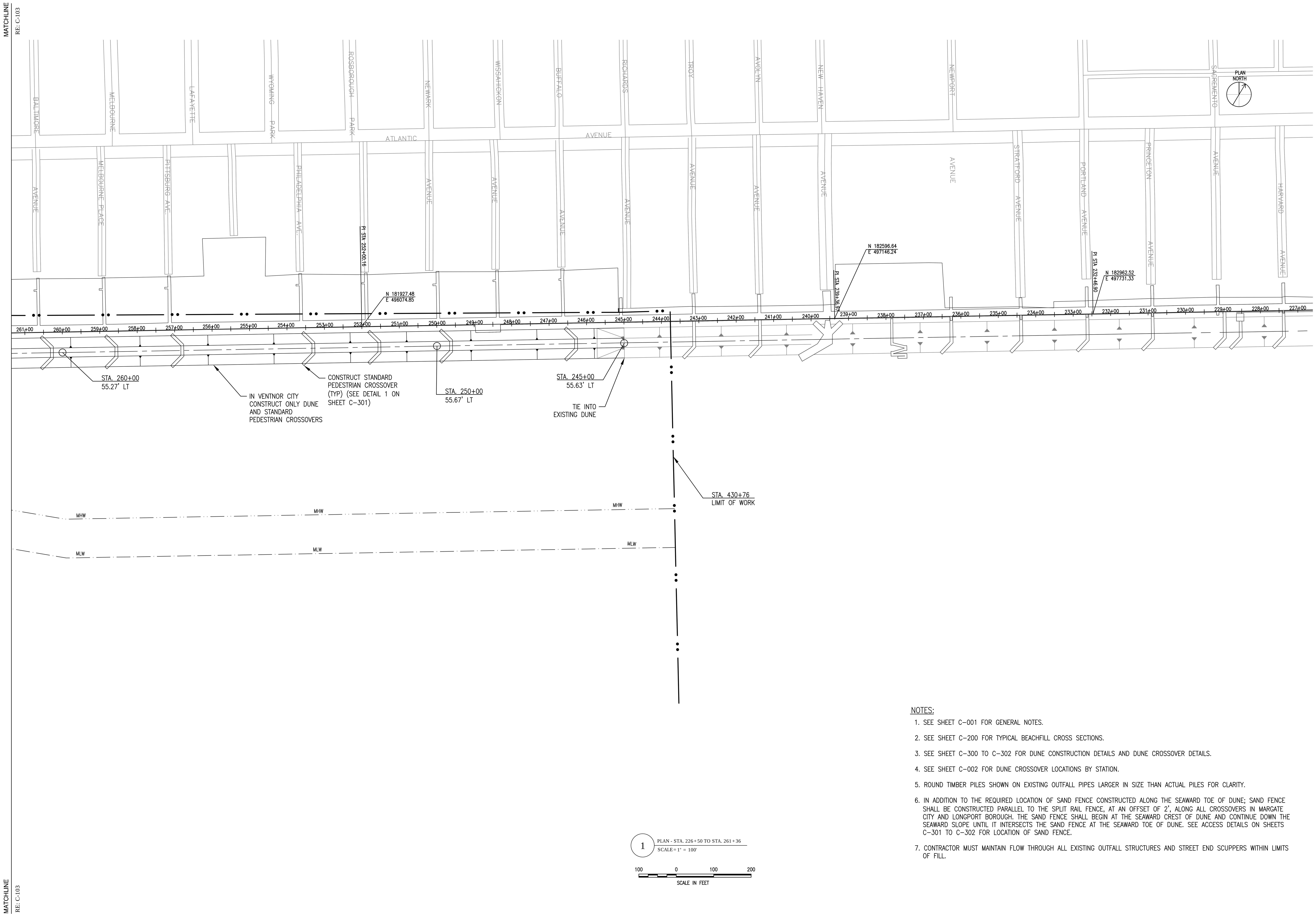
ISSUE/RELEASE DATE: 30% - 21 NOV 13
PROJ. NUMBER: -
SOLICITATION NUMBER: W912BU-14-B-0002
CONTRACT NUMBER: -
DWG SCALE: AS SHOWN
DWG. SIZE: 36"x24" ANSI E
FILE NAME: 01POSTERNL PLAN.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
BORROW AREA REFERENCE PLAN
-

SHEET NUMBER
C-101



1 PLAN - STA. 226+50 TO STA. 261+36
SCALE = 1" = 100'

100 0 100 200
SCALE IN FEET

NOTES:

1. SEE SHEET C-001 FOR GENERAL NOTES.
2. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS.
3. SEE SHEET C-300 TO C-302 FOR DUNE CONSTRUCTION DETAILS AND DUNE CROSSOVER DETAILS.
4. SEE SHEET C-002 FOR DUNE CROSSOVER LOCATIONS BY STATION.
5. ROUND TIMBER PILES SHOWN ON EXISTING OUTFALL PIPES LARGER IN SIZE THAN ACTUAL PILES FOR CLARITY.
6. IN ADDITION TO THE REQUIRED LOCATION OF SAND FENCE CONSTRUCTED ALONG THE SEAWARD TOE OF DUNE; SAND FENCE SHALL BE CONSTRUCTED PARALLEL TO THE SPLIT RAIL FENCE, AT AN OFFSET OF 2', ALONG ALL CROSSOVERS IN MARGATE CITY AND LONGPORT BOROUGH. THE SAND FENCE SHALL BEGIN AT THE SEAWARD CREST OF DUNE AND CONTINUE DOWN THE SEAWARD SLOPE UNTIL IT INTERSECTS THE SAND FENCE AT THE SEAWARD TOE OF DUNE. SEE ACCESS DETAILS ON SHEETS C-301 TO C-302 FOR LOCATION OF SAND FENCE.
7. CONTRACTOR MUST MAINTAIN FLOW THROUGH ALL EXISTING OUTFALL STRUCTURES AND STREET END SCUPPERS WITHIN LIMITS OF FILL.

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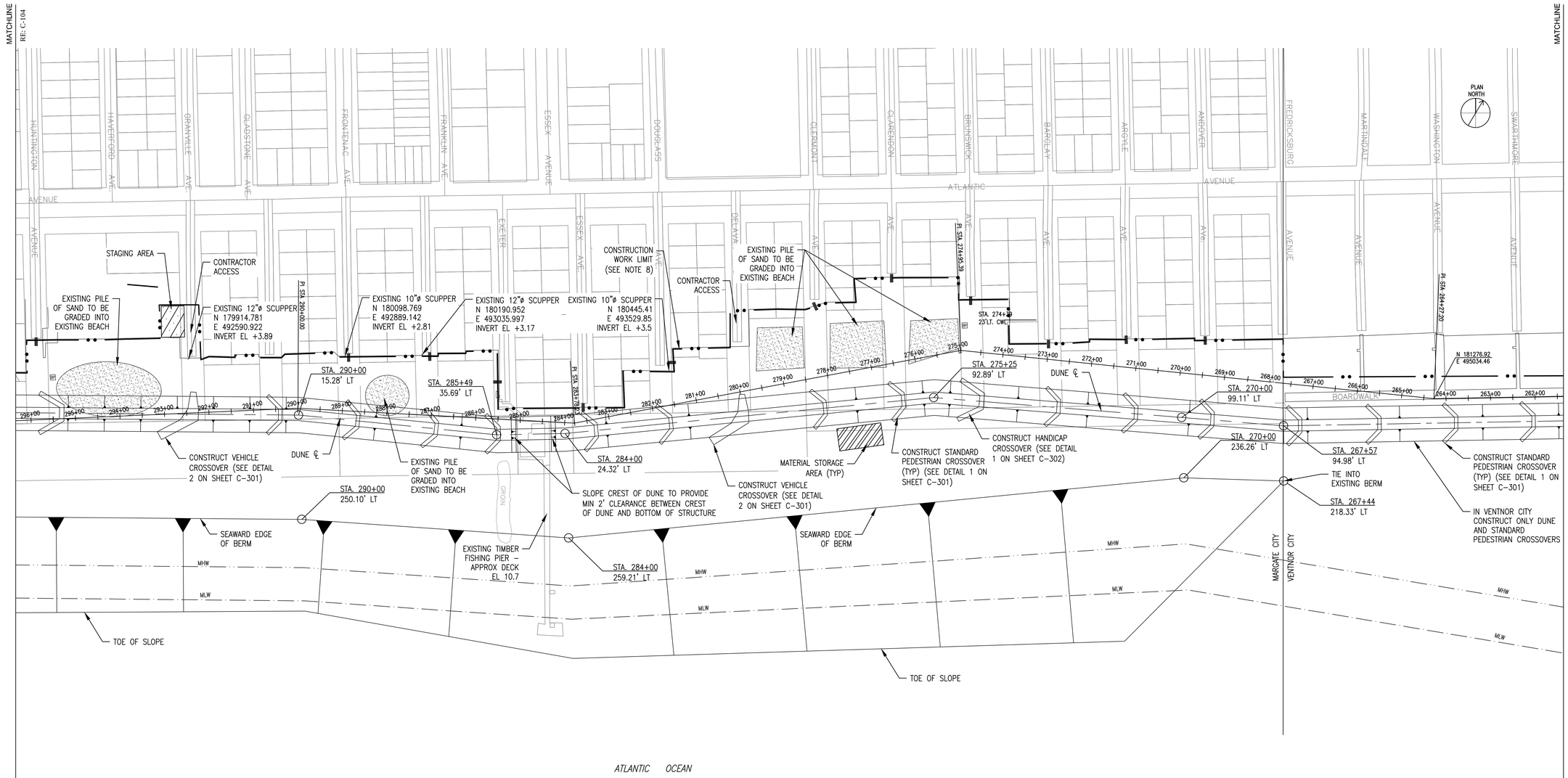
		SOLICITATION NUMBER: IFB W912BU-14-B-0002
DWG SCALE: AS SHOWN		CONTRACT NUMBER: -
DWG. SIZE: 30"x42" Arch E1	FILE NAME: C-102 PLAN - STA. X+XX TO STA. 261+36.dwg	

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY

INITIAL BEACHFILL
MARGATE AND LONGPORT

PLAN - STA. 226+50 TO STA. 261+36
-

SHEET NUMBER
C-102



1 PLAN - STA. 261+36 TO STA. 296+34

SCALE: 1" = 100'

100 0 100 200

SCALE IN FEET

NOTES:

1. SEE SHEET C-001 FOR GENERAL NOTES.
2. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS.
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7. CONTRACTOR MUST MAINTAIN FLOW THROUGH ALL EXISTING OUTFALL STRUCTURES AND STREET END SCUPPERS WITHIN LIMITS OF FILL.
8. THE CONTRACTORS WORK LIMIT IS 2 FEET SEAWARD OF THE SEAWARD FACE OF THE EXISTING TIMBER BULKHEAD IN BOTH MARGATE CITY AND LONGPORT BOROUGH, UNLESS OTHERWISE SHOWN ON THE PLANS.

US Army Corps of Engineers Philadelphia District

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MARK	DESCRIPTION	DATE	BY

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
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DWN BY: DTB | DESIGNED BY: DTB | ISSUE/RELEASE DATE: 90% 29 NOV 13
CKD BY: DAK | REVIEWED BY: TEB | PROJ. NUMBER:
SOLICITATION NUMBER: W912BU-14-B-0002
CONTRACT NUMBER:
DWG SCALE: AS SHOWN
DWG. SIZE: 22"x34" ANSI E
FILE NAME: E3-P103-DUNE.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
PLAN - STA. 261+36 TO STA. 296+34

SHEET NUMBER
C-103

NOTES:

1. SEE SHEET C-001 FOR GENERAL NOTES.
2. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS.
3. SEE SHEET C-300 TO C-302 FOR DUNE CONSTRUCTION DETAILS AND DUNE CROSSOVER DETAILS.
4. SEE SHEET C-002 FOR DUNE CROSSOVER LOCATIONS BY STATION.
5. ROUND TIMBER PILES SHOWN ON EXISTING OUTFALL PIPES ARE LARGER IN SIZE THAN ACTUAL PILES FOR CLARITY.
6. IN ADDITION TO THE REQUIRED LOCATION OF SAND FENCE CONSTRUCTED ALONG THE SEAWARD TOE OF DUNE; SAND FENCE SHALL BE CONSTRUCTED PARALLEL TO THE SPLIT RAIL FENCE, AT AN OFFSET OF 2', ALONG ALL CROSSOVERS IN MARGATE CITY AND LONGPORT BOROUGH. THE SAND FENCE SHALL BEGIN AT THE SEAWARD CREST OF DUNE AND CONTINUE DOWN THE SEAWARD SLOPE UNTIL IT INTERSECTS THE SAND FENCE AT THE SEAWARD TOE OF DUNE. SEE ACCESS DETAILS ON SHEETS C-301 TO C-302 FOR LOCATION OF SAND FENCE.
7. CONTRACTOR MUST MAINTAIN FLOW THROUGH ALL EXISTING OUTFALL STRUCTURES AND STREET END SCUPPERS WITHIN LIMITS OF FILL.
8. THE CONTRACTORS WORK LIMIT IS 2 FEET SEAWARD OF THE SEAWARD FACE OF THE EXISTING TIMBER BULKHEAD IN BOTH MARGATE CITY AND LONGPORT BOROUGH, UNLESS OTHERWISE SHOWN ON THE PLANS.

1 PLAN - STA. 296+34 TO STA. 331+18
SCALE: 1" = 100'

100 0 100 200
SCALE IN FEET

US Army Corps of Engineers
Philadelphia District

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PHILADELPHIA, PA 19107-3390
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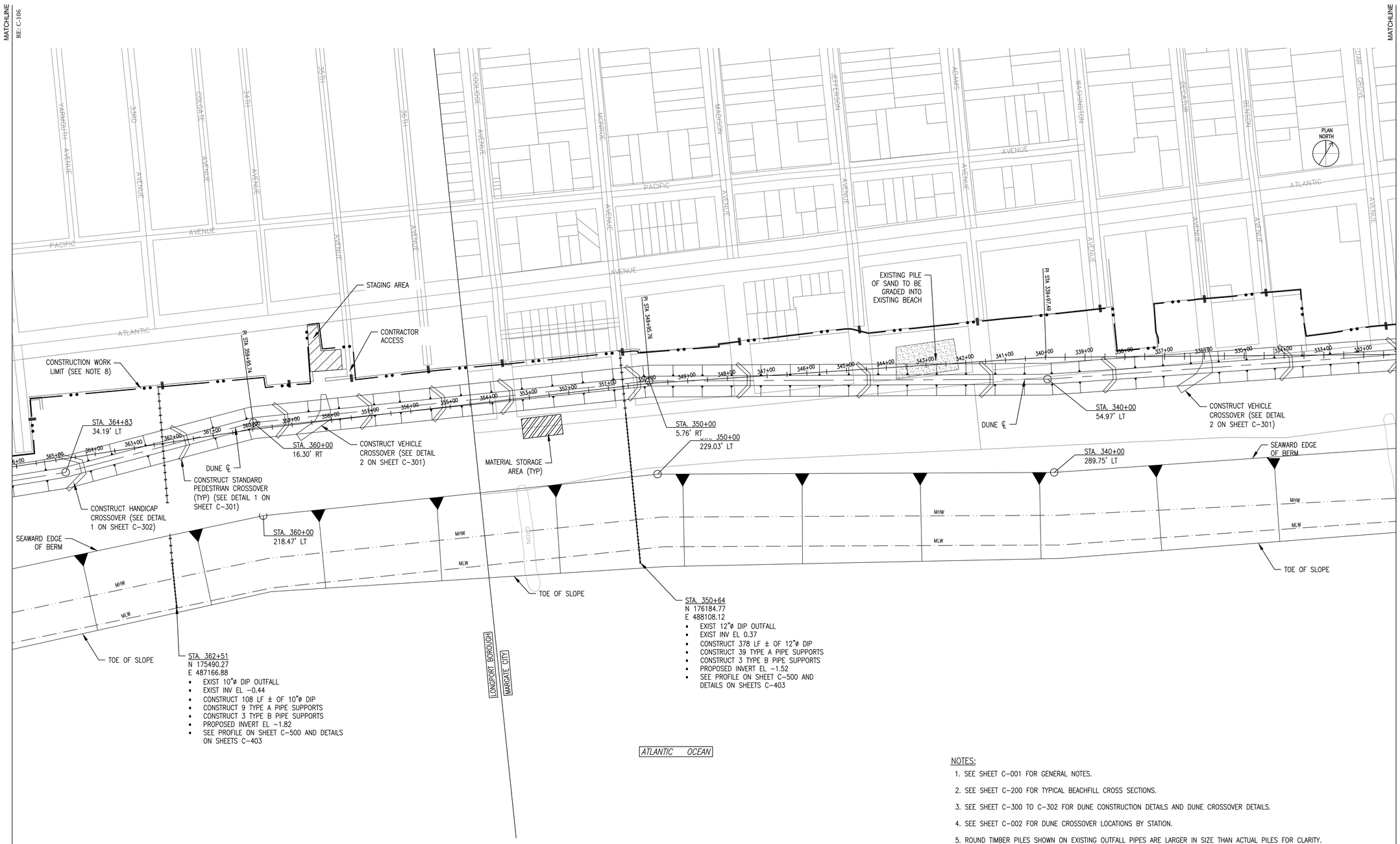
DWN BY: DTB	DESIGNED BY: DTB	ISSUE/RELEASE DATE: 90% - 22 NOV 13	
CKD BY: GMB	REVIEWED BY: [illegible]	PROJ. NUMBER:	
		SOLICITATION NUMBER: W912BU-14-B-0002	
DWG. SCALE: AS SHOWN		CONTRACT NUMBER:	
DWG. SIZE: 22"x34" (ANSI D)		FILE NAME: C-001-005-104-105.dwg	

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY

INITIAL BEACHFILL
MARGATE AND LONGPORT
PLAN - STA. 296+34 TO STA. 331+18

SHEET NUMBER
C-104



1 PLAN - STA. 331+18 TO STA. 366+11

SCALE: 1" = 100'

100 0 100 200

SCALE IN FEET

NOTES:

1. SEE SHEET C-001 FOR GENERAL NOTES.
2. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS.
3. SEE SHEET C-300 TO C-302 FOR DUNE CONSTRUCTION DETAILS AND DUNE CROSSOVER DETAILS.
4. SEE SHEET C-002 FOR DUNE CROSSOVER LOCATIONS BY STATION.
5. ROUND TIMBER PILES SHOWN ON EXISTING OUTFALL PIPES ARE LARGER IN SIZE THAN ACTUAL PILES FOR CLARITY.
6. IN ADDITION TO THE REQUIRED LOCATION OF SAND FENCE CONSTRUCTED ALONG THE SEAWARD TOE OF DUNE; SAND FENCE SHALL BE CONSTRUCTED PARALLEL TO THE SPLIT RAIL FENCE, AT AN OFFSET OF 2', ALONG ALL CROSSOVERS IN MARGATE CITY AND LONGPORT BOROUGH. THE SAND FENCE SHALL BEGIN AT THE SEAWARD CREST OF DUNE AND CONTINUE DOWN THE SEAWARD SLOPE UNTIL IT INTERSECTS THE SAND FENCE AT THE SEAWARD TOE OF DUNE. SEE ACCESS DETAILS ON SHEETS C-301 TO C-302 FOR LOCATION OF SAND FENCE.
7. CONTRACTOR MUST MAINTAIN FLOW THROUGH ALL EXISTING OUTFALL STRUCTURES AND STREET END SCUPPERS WITHIN LIMITS OF FILL.
8. THE CONTRACTORS WORK LIMIT IS 2 FEET SEAWARD OF THE SEAWARD FACE OF THE EXISTING TIMBER BULKHEAD IN BOTH MARGATE CITY AND LONGPORT BOROUGH, UNLESS OTHERWISE SHOWN ON THE PLANS.

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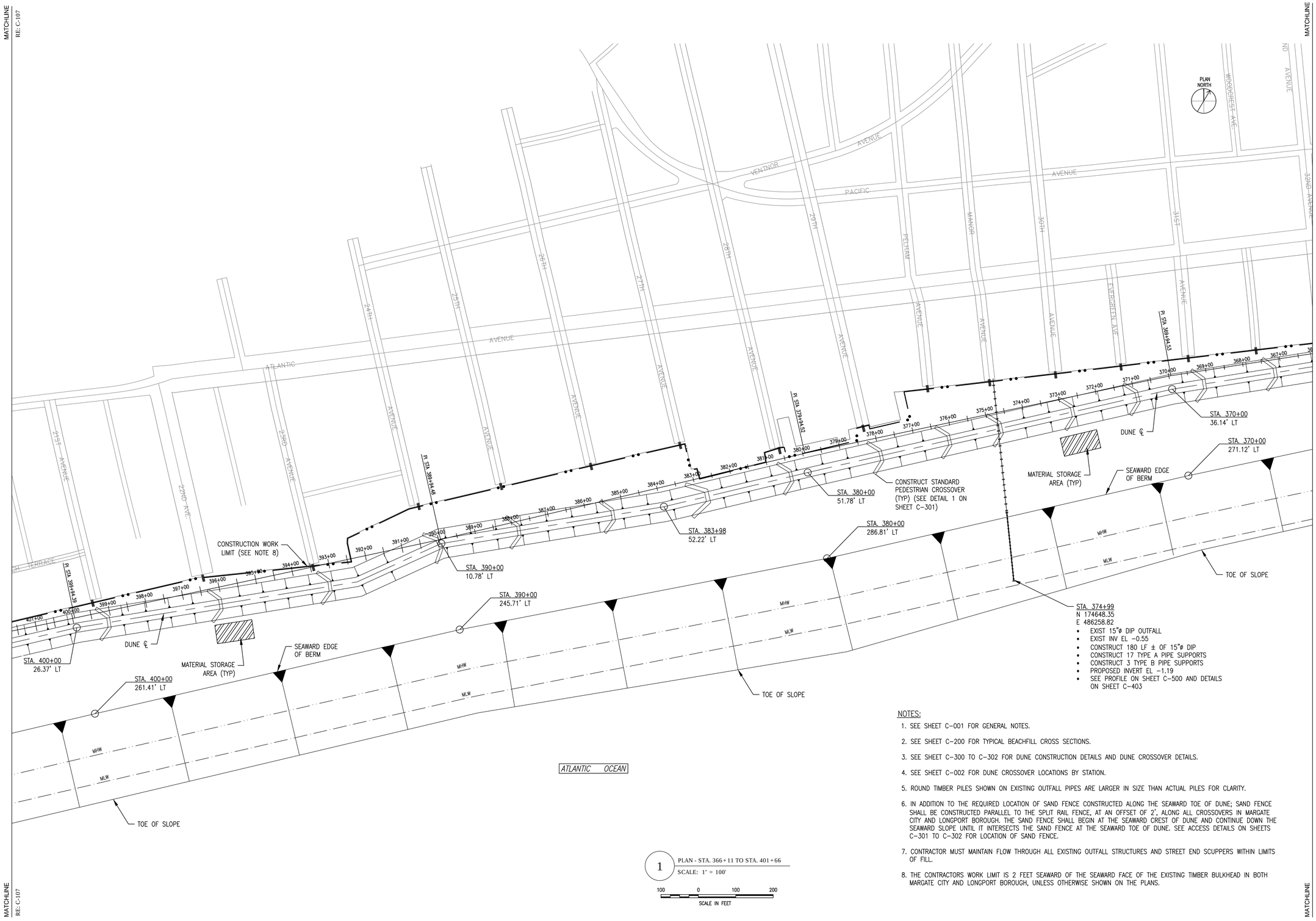
CKD BY: GM	REVIEWED BY: TE	PROJ. NUMBER:	
		SOLICITATION NUMBER: W912BU-14-B-0002	
DWG. SCALE: AS SHOWN		CONTRACT NUMBER:	
DWG. SIZE: 22"x34" (ANSI D)		FILE NAME: C-105TAN.dwg	

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY

INITIAL BEACHFILL
MARGATE AND LONGPORT
PLAN - STA. 331+18 TO STA. 366+11

SHEET NUMBER
C-105



1 PLAN - STA. 366+11 TO STA. 401+66
SCALE: 1" = 100'

100 0 100 200
SCALE IN FEET

NOTES:

1. SEE SHEET C-001 FOR GENERAL NOTES.
2. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS.
3. SEE SHEET C-300 TO C-302 FOR DUNE CONSTRUCTION DETAILS AND DUNE CROSSOVER DETAILS.
4. SEE SHEET C-002 FOR DUNE CROSSOVER LOCATIONS BY STATION.
5. ROUND TIMBER PILES SHOWN ON EXISTING OUTFALL PIPES ARE LARGER IN SIZE THAN ACTUAL PILES FOR CLARITY.
6. IN ADDITION TO THE REQUIRED LOCATION OF SAND FENCE CONSTRUCTED ALONG THE SEAWARD TOE OF DUNE; SAND FENCE SHALL BE CONSTRUCTED PARALLEL TO THE SPLIT RAIL FENCE, AT AN OFFSET OF 2', ALONG ALL CROSSOVERS IN MARGATE CITY AND LONGPORT BOROUGH. THE SAND FENCE SHALL BEGIN AT THE SEAWARD CREST OF DUNE AND CONTINUE DOWN THE SEAWARD SLOPE UNTIL IT INTERSECTS THE SAND FENCE AT THE SEAWARD TOE OF DUNE. SEE ACCESS DETAILS ON SHEETS C-301 TO C-302 FOR LOCATION OF SAND FENCE.
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APV BY: DAL

DESIGNED BY: DTB
REVIEWED BY: TEL

ISSUE/RELEASE DATE: 30%, 22 NOV 13
PROJ. NUMBER:
SOLICITATION NUMBER: W912PS2-14-B-0035
CONTRACT NUMBER:

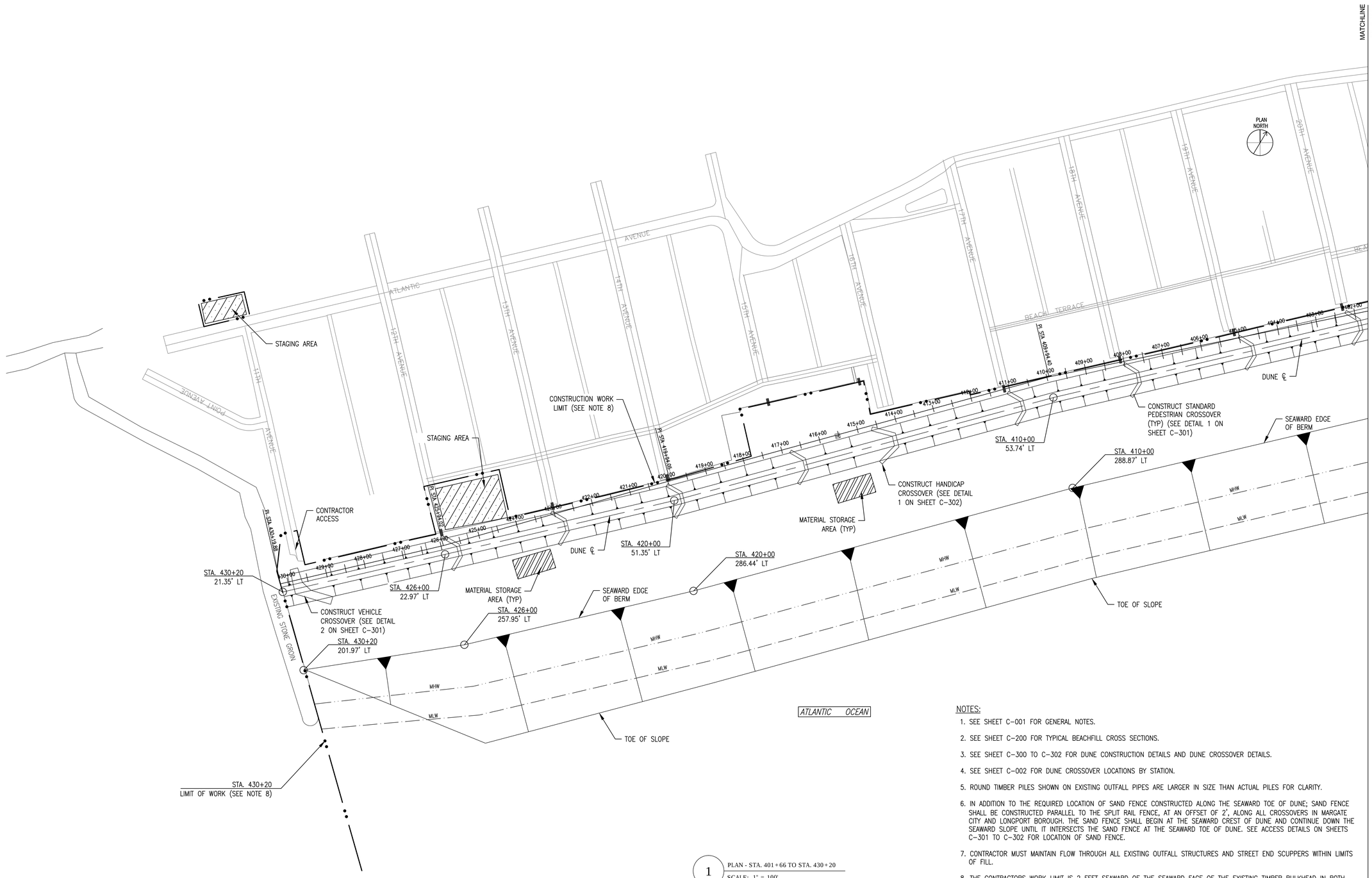
DWG. SIZE: 22 X 34 ANSI D
FILE NAME: C106-PLAN.dwg

DWG SCALE: AS SHOWN

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY

INITIAL BEACHFILL
MARGATE AND LONGPORT
PLAN - STA. 366+11 TO STA. 401+66

SHEET NUMBER
C-106



1 PLAN - STA. 401+66 TO STA. 430+20
SCALE: 1" = 100'

100 0 100 200
SCALE IN FEET

NOTES:

1. SEE SHEET C-001 FOR GENERAL NOTES.
2. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS.
3. SEE SHEET C-300 TO C-302 FOR DUNE CONSTRUCTION DETAILS AND DUNE CROSSOVER DETAILS.
4. SEE SHEET C-002 FOR DUNE CROSSOVER LOCATIONS BY STATION.
5. ROUND TIMBER PILES SHOWN ON EXISTING OUTFALL PIPES ARE LARGER IN SIZE THAN ACTUAL PILES FOR CLARITY.
6. IN ADDITION TO THE REQUIRED LOCATION OF SAND FENCE CONSTRUCTED ALONG THE SEAWARD TOE OF DUNE; SAND FENCE SHALL BE CONSTRUCTED PARALLEL TO THE SPLIT RAIL FENCE, AT AN OFFSET OF 2', ALONG ALL CROSSOVERS IN MARGATE CITY AND LONGPORT BOROUGH. THE SAND FENCE SHALL BEGIN AT THE SEAWARD CREST OF DUNE AND CONTINUE DOWN THE SEAWARD SLOPE UNTIL IT INTERSECTS THE SAND FENCE AT THE SEAWARD TOE OF DUNE. SEE ACCESS DETAILS ON SHEETS C-301 TO C-302 FOR LOCATION OF SAND FENCE.
7. CONTRACTOR MUST MAINTAIN FLOW THROUGH ALL EXISTING OUTFALL STRUCTURES AND STREET END SCUPPERS WITHIN LIMITS OF FILL.
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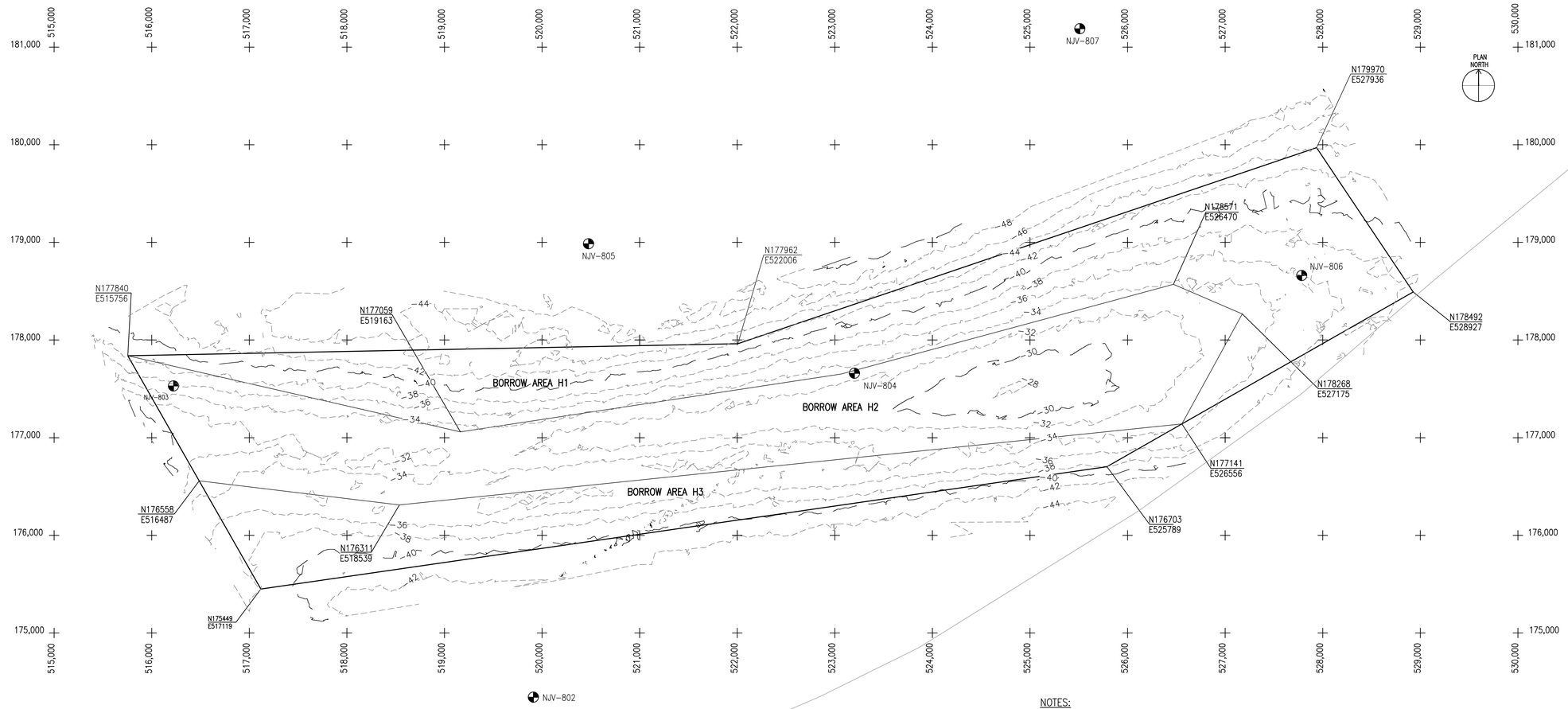
DWN BY: DTB
CKD BY: DA
DWG SCALE: AS SHOWN
DWG. SIZE: 22"X34" ANSI E
ISSUE/RELEASE DATE: 90% - 22 NOV 13
PROJ. NUMBER:
SOLICITATION NUMBER: W912BU-14-B-0002
CONTRACT NUMBER:
FILE NAME: C107-C108.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
PLAN - STA. 401+66 TO STA. 430+20

SHEET NUMBER
C-107

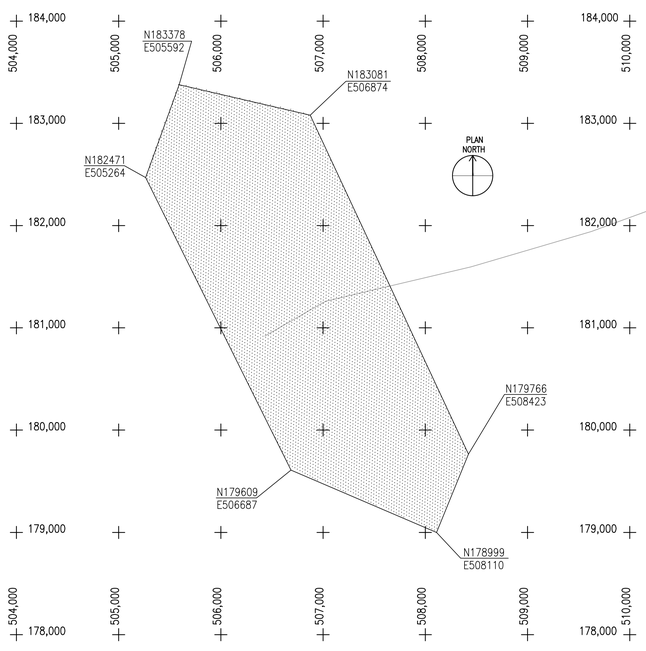


1 PLAN - BORROW AREA H

SCALE = 1" = 500'

500 0 500 1000

SCALE IN FEET



2 PLAN - RESTRICTED PIPELINE PLACEMENT AREA

SCALE = 1" = 600'

600 0 600 1200

SCALE IN FEET

NOTES:

1. THE SOUNDINGS DEPICTED ON THIS MAP REPRESENT THE RESULTS OF CLASS 1 SURVEYS CONDUCTED FROM JUNE 17, 2013 AND CAN ONLY BE CONSIDERED AS INDICATIVE OF THE BATHYMETRY AS IT EXISTED AT THAT TIME.
2. HORIZONTAL REFERENCE – NAD 83, NEW JERSEY STATE PLANE, ZONE 2900, U.S. FOOT.
3. SOUNDINGS ARE EXPRESSED IN FEET & TENTHS AND REFER TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
4. THE POSITIONS OF THE AIDS TO NAVIGATION ARE PROVIDED FOR INFORMATION ONLY AND SHOULD NOT BE USED FOR NAVIGATION.
5. BORING LOGS AND SIEVE CURVES FOR THE VIBRACORES SHOWN ON THIS PLAN CAN BE FOUND IN THE SPECIFICATIONS.
6. DREDGING SHALL BEGIN IN SUB–AREA H–1. THE CONTRACTOR SHALL DREDGE ALL MATERIAL TO WITHIN ONE FOOT ABOVE THE MAXIMUM CONTRACT DEPTH IN SUB–AREA H–1 PRIOR TO MOVING TO SUB–AREA H–3 AND H–2 RESPECTIVELY. H–3 SHALL BE DREDGED PRIOR TO H–2. HOWEVER, DUE TO THE DYNAMIC NATURE OF THE BORROW AREA, SITE CONDITIONS MAY HAVE CHANGED SINCE THE BORROW AREA WAS LAST SURVEYED. IF IT IS DETERMINED THAT THE MATERIAL QUALITY IS POOR OR IF THE PRODUCTION RATE IS ADVERSELY AFFECTED DUE TO MATERIAL QUALITY, CONTRACTOR MAY MOVE TO SUB–AREA H–3 AND/OR H–2 AFTER CONSULTATION WITH AND APPROVAL OF THE CONTRACTING OFFICER'S REPRESENTATIVE.

Borrow Area	Maximum Depth of Dredging Activities
	Elevation in Feet, NAVD88
H1	–48.0
H2	–44.0
H3	–48.0

LEGEND:

PIPELINE PLACEMENT EXCLUSION ZONE. DUE TO ENVIRONMENTAL RESTRICTIONS, SUBMERGED AND FLOATING PIPELINE SHALL NOT BE PLACED IN DEPICTED AREA.

NJV–# VIBRACORE BORING LOCATION

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PHILADELPHIA, PA 19107-3390
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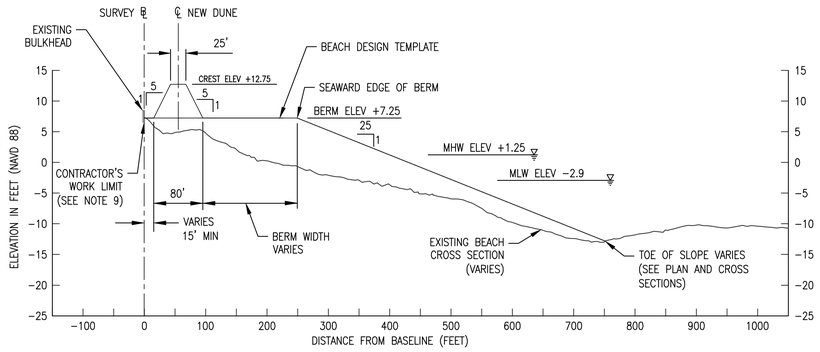
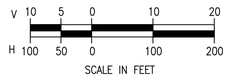
DWN BY: DTB
CKD BY: DTB
CKD BY: CMS
DESIGNED BY: DTB
REVIEWED BY: TE
ISSUE/RELEASE DATE: 30% - 22 NOV 13
PROJ. NUMBER:
SOLICITATION NUMBER: W912BU-14-D-0002
CONTRACT NUMBER:
DWG. SCALE: AS SHOWN
DWG. SIZE: 22"x34", 24"x36"
FILE NAME: C-108 BORROW AREA H.dwg

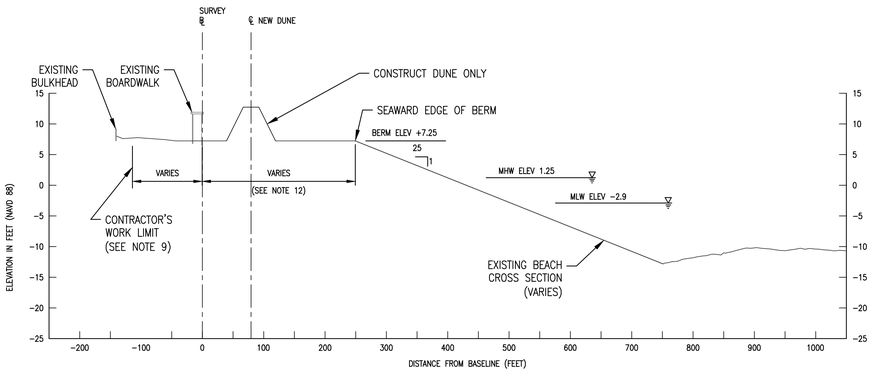
BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
PLAN - BORROW AREA H AND PIPE RESTRICTION ZONE

SHEET NUMBER
C-108

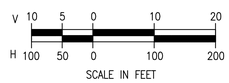


1 TYPICAL SECTIONS - STA. 267+57 TO STA. 430+20
SCALE: 1" = 100'





2 TYPICAL SECTIONS - STA. 245+00 TO STA. 267+57
SCALE: 1" = 100'



NOTES:

1. SEE SHEET C-001 FOR GENERAL NOTES.
2. SEE SHEET C-300 FOR DUNE CONSTRUCTION DETAILS.
3. THE CROSS SECTIONS ARE SHOWN LOOKING BACK STATION ALONG THE SURVEY AND CONSTRUCTION BASELINE.
4. DUNES SHALL BE CONSTRUCTED IN 3' THICK MAXIMUM HORIZONTAL LIFTS. EACH LIFT SHALL BE COMPACTED BY A MINIMUM OF 3 PASSES OF A D6 OR LARGER DOZER WITH COMPLETE OVERLAPPING COVERAGE.
5. THE CONTRACTOR MAY BE REQUIRED TO HAND PLACE BEACHFILL MATERIAL BENEATH EXISTING STRUCTURES AND PIERS.
6. THE BEACHFILL DISCHARGE PIPE SHALL BE PLACED ON THE OCEAN SIDE OF THE EXISTING DUNES AT ALL TIMES.
7. THE BEACHFILL SLOPE BELOW MLW IS ASSUMED AS SHOWN FOR INITIAL QUANTITY CALCULATIONS. ACTUAL SLOPE MAY VARY TO SUIT THE DYNAMIC CONDITIONS THAT EXIST AT THE TIME OF PLACEMENT. SEE SPECIFICATIONS FOR PLACEMENT AND PAYMENT.
8. THE EXTENT OF EXISTING DUNES WILL VARY DUE TO DYNAMIC CONDITIONS. THE LOCATION OF EXISTING DUNES AS SHOWN ON THE PLAN DRAWINGS AND BY THE STATIONING REFERENCED ON THIS SHEET IS APPROXIMATE.
9. THE CONTRACTOR'S LANDWARD WORK LIMIT AND LIMIT OF BEACHFILL IS 2' SEAWARD OF THE EXISTING TIMBER BULKHEAD IN LONGPORT AND MARGATE AND VARIES IN VENTNOR CITY, SEE PLANS.

US Army Corps of Engineers
Philadelphia District

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-	-	-	-

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-	-	-	-

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PHILADELPHIA, PA 19107-3390
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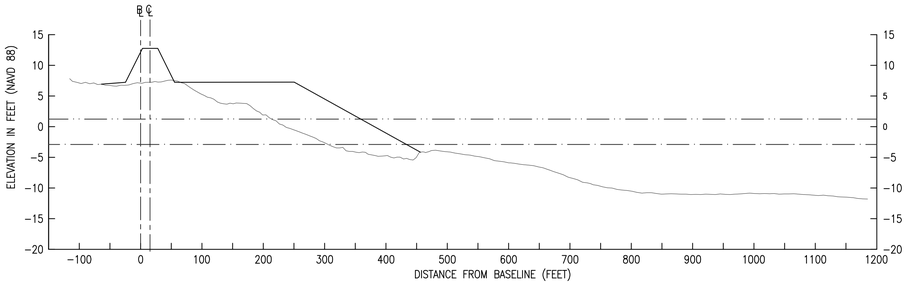
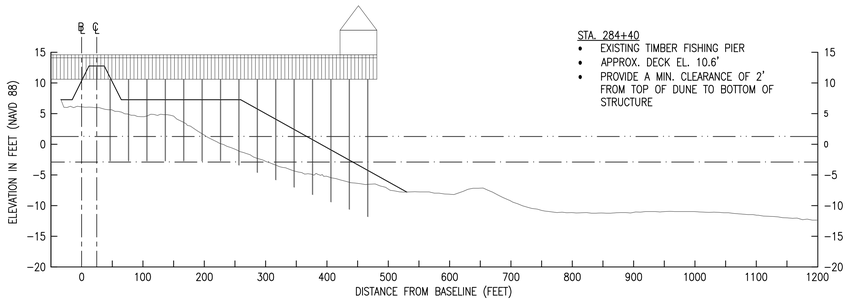
DWN BY: DTB
CKD BY: DTB
DES CHK BY: MA
DESIGNED BY: DTB
REVIEWED BY: TEV
DWG SCALE: AS SHOWN
DWG. SIZE: 30"x42" ANSI D
ISSUE/RELEASE DATE: 90% - 22 NOV 13
PROJ. NUMBER: -
SOLICITATION NUMBER: W912BU-14-B-0202
CONTRACT NUMBER: -
FILE NAME: C200-CROSS SECTIONS - TYPICAL BEACHFILL.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
TYPICAL SECTIONS - BEACHFILL

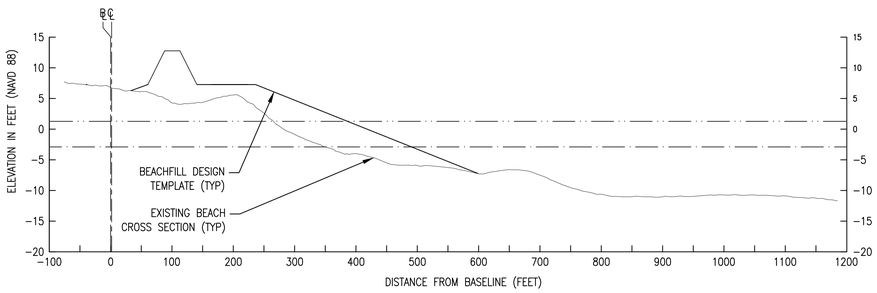
SHEET NUMBER
C-200



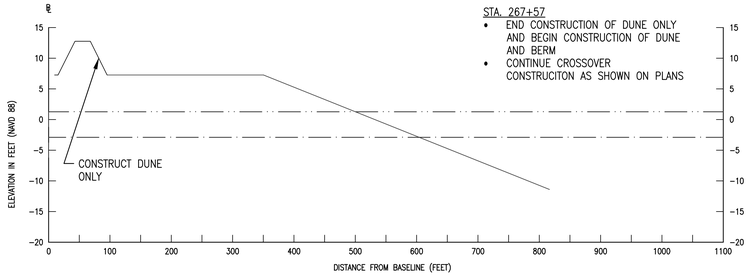
STA. 290+00



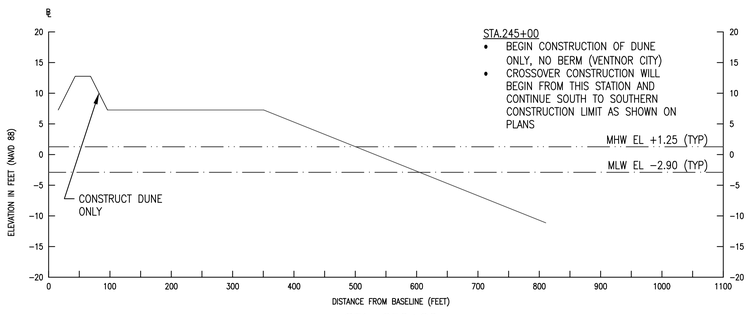
STA. 284+00



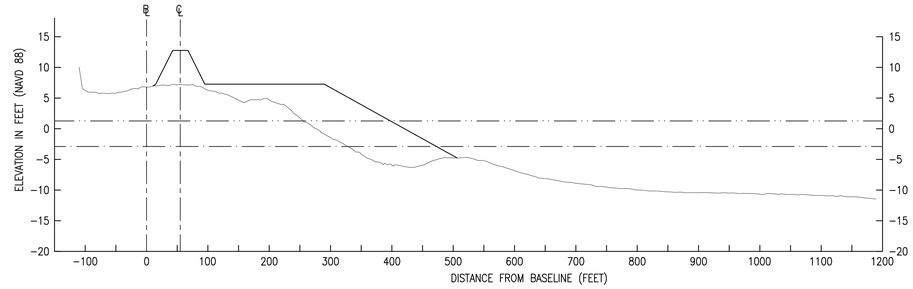
STA. 270+00



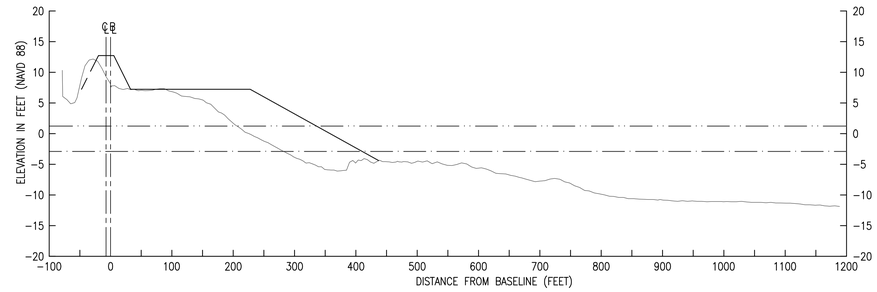
STA. 260+00



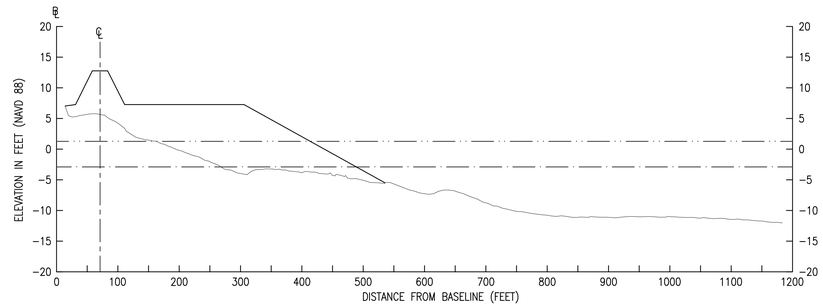
STA. 250+00



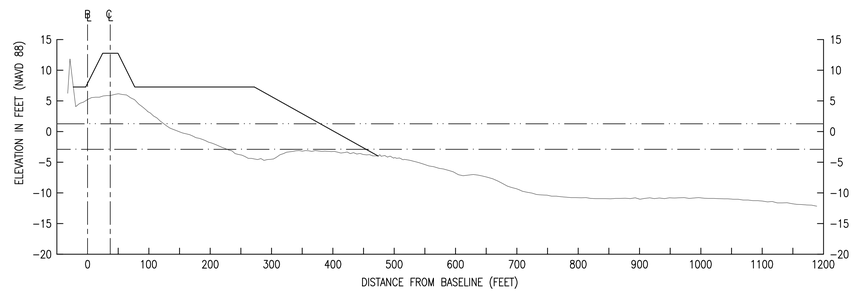
STA. 340+00



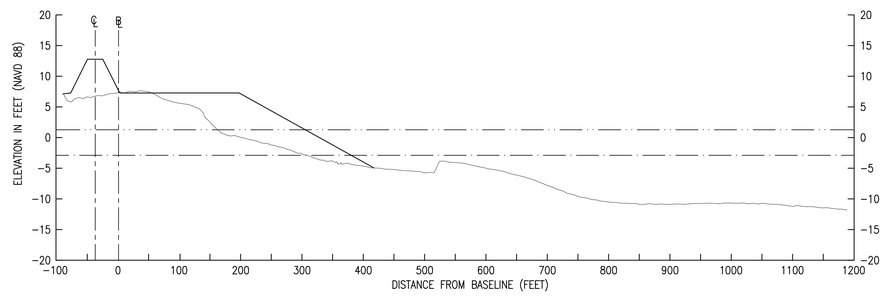
STA. 330+00



STA. 320+00



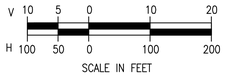
STA. 310+00



STA. 300+00

NOTES

1. ALL CROSS SECTIONS ARE TAKEN ALONG THE PRE/POST PLACEMENT CONDITION PROFILE LINES, SEE SHEET C-002 FOR ORIGIN POINTS AND AZIMUTHS. THE CROSS SECTIONS ARE SHOWN LOOKING BACK STATION ALONG THE SURVEY AND CONSTRUCTION BASELINE.
2. SEE SHEET C-001 FOR GENERAL NOTES.
3. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS AND SHEET C-300 FOR DUNE CONSTRUCTION DETAILS.
4. THE SLOPE OF THE PROPOSED BEACHFILL TEMPLATE SHALL TERMINATE AT THE LOCATION WHERE IT INTERSECTS WITH EXISTING GROUND.



US Army Corps of Engineers Philadelphia District

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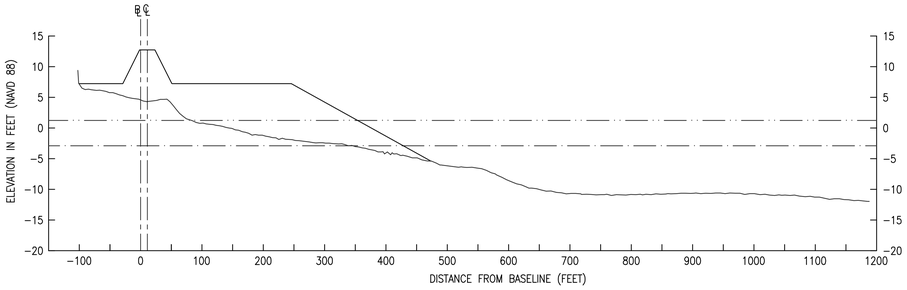
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
www.nap.usace.army.mil

DWN BY: DTB	DESIGNED BY: DTB	ISSUE/RELEASE DATE: 95%, 22 NOV 13	
CKD BY: DAL	REVIEWED BY: TEL	PROJ. NUMBER:	
		SOLICITATION NUMBER: W912BV15D-14-3005	
		CONTRACT NUMBER: -	
DWG SCALE: AS SHOWN		FILE NAME: C-300 CROSS SECTIONS - STA 250+00 TO STA 340+00.dwg	
DWG. SIZE: 22"X34" (ANSI E)			

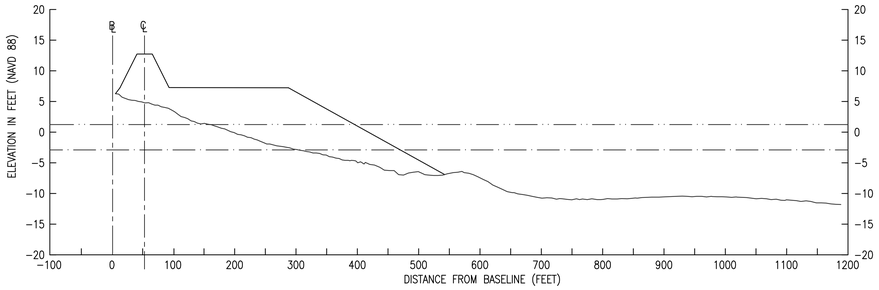
BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY

INITIAL BEACHFILL
MARGATE AND LONGPORT
CROSS SECTIONS - STA. 250+00 TO STA. 340+00

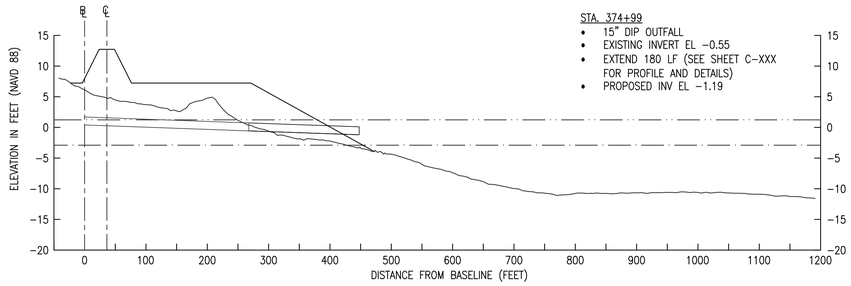
SHEET NUMBER
C-300



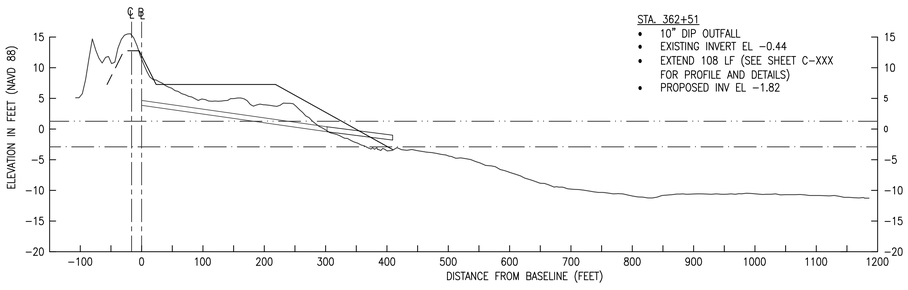
STA. 390+00



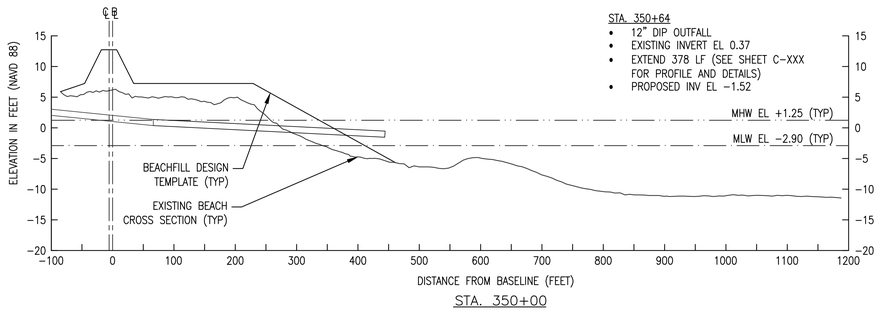
STA. 380+00



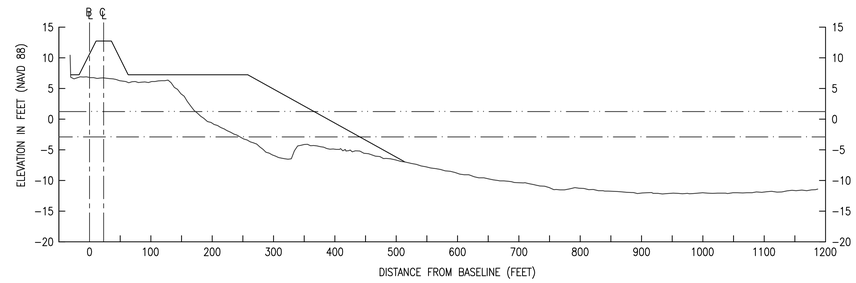
STA. 370+00



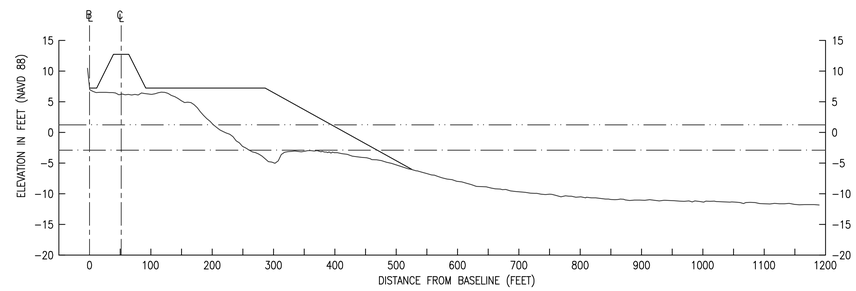
STA. 360+00



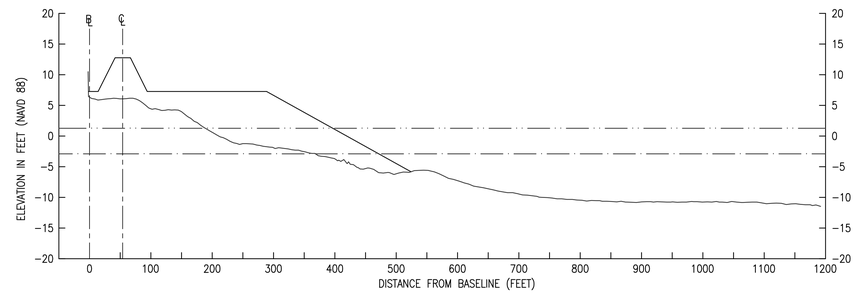
STA. 350+00



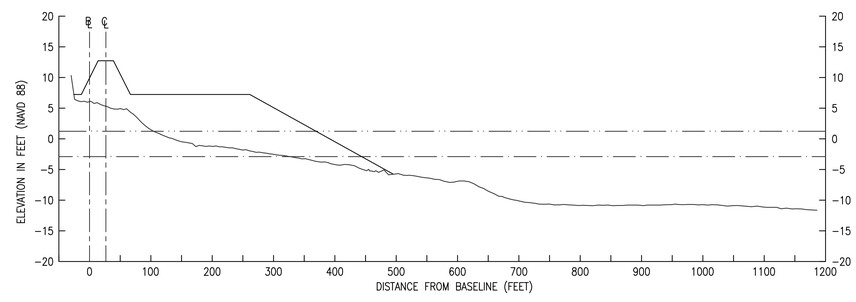
STA. 426+00



STA. 420+00



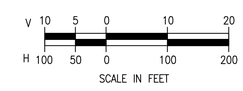
STA. 410+00



STA. 400+00

NOTES

1. ALL CROSS SECTIONS ARE TAKEN ALONG THE PRE/POST PLACEMENT CONDITION PROFILE LINES, SEE SHEET C-002 FOR ORIGIN POINTS AND AZIMUTHS. THE CROSS SECTIONS ARE SHOWN LOOKING BACK STATION ALONG THE SURVEY AND CONSTRUCTION BASELINE.
2. SEE SHEET C-001 FOR GENERAL NOTES.
3. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS AND SHEET C-300 FOR DUNE CONSTRUCTION DETAILS.
4. THE SLOPE OF THE PROPOSED BEACHFILL TEMPLATE SHALL TERMINATE AT THE LOCATION WHERE IT INTERSECTS WITH EXISTING GROUND.



US Army Corps of Engineers Philadelphia District

MARK	ACTION	DATE	BY

MARK	DESCRIPTION	DATE	BY

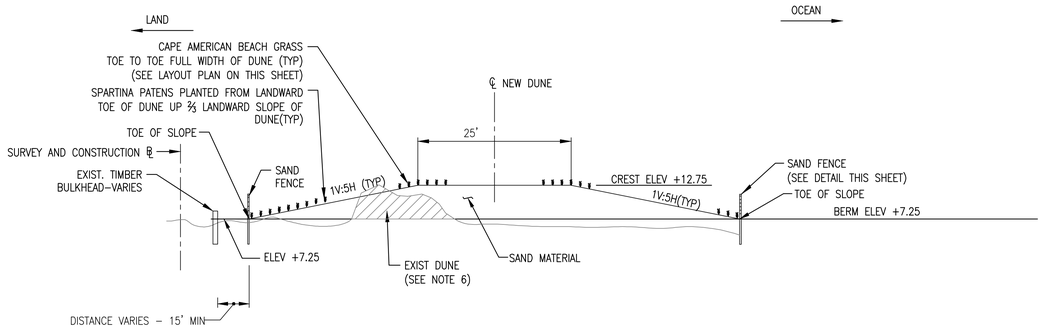
U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
www.nap.usace.army.mil

DWN BY: DTB
CKD BY: DTB
CKD BY: CAN
DESIGNED BY: DTB
REVIEWED BY: PEL
ISSUE/RELEASE DATE: 905 - 22 NOV 13
PROJ. NUMBER:
SOLICITATION NUMBER: W912BU-14-0-0002
CONTRACT NUMBER:
DWG. SCALE: AS SHOWN
DWG. SIZE: 22"x34" ANSI D
FILE NAME: C300-CROSS SECTIONS - STA 370+00 TO STA 426+00.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY

INITIAL BEACHFILL
MARGATE AND LONGPORT
CROSS SECTIONS - STA. 350+00 TO STA. 426+00

SHEET NUMBER
C-301

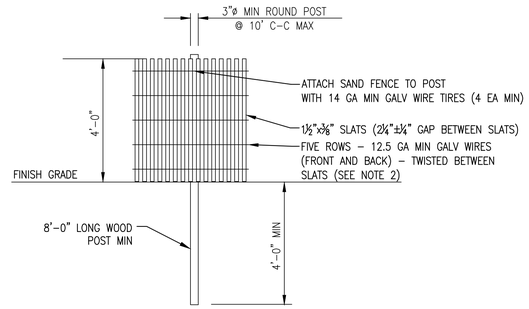


1 DETAIL - TYPICAL BEACHFILL DUNE - STA. 267+57 TO STA. 430+20

SCALE: 1" = 10'

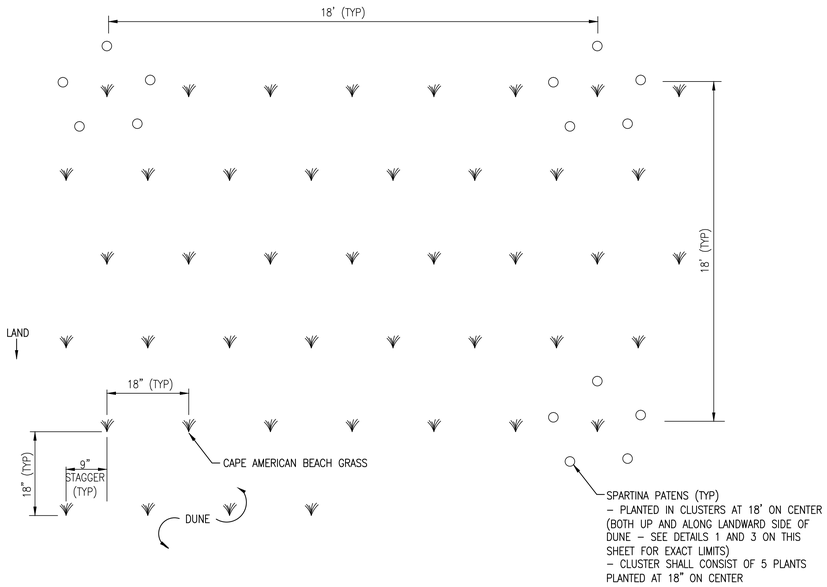
10 0 10 20

SCALE IN FEET



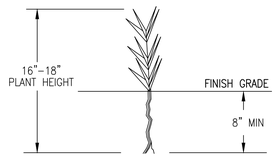
2 DETAIL - SAND FENCE AND POST

SCALE: NOT TO SCALE



3 PLAN - BEACH GRASS LAYOUT

SCALE: NOT TO SCALE



4 DETAIL - BEACH GRASS PLANTING

SCALE: NOT TO SCALE

NOTES:

1. ALTERNATE FENCE FROM LANDWARD TO SEAWARD SIDE OF POSTS AT EACH POST.
2. NOT LESS THAN TWO (2) THREE HUNDRED SIXTY DEGREE TWISTS OF WIRE IN THE WEAVE BETWEEN SLATS.
3. WOOD SLATS SHALL BE 4'–0" LONG. SAND FENCE ALIGNMENT SHALL BE PARALLEL TO TOE OF NEW DUNE.
4. SEE SHEET C–001 FOR GENERAL NOTES.
5. SEE SHEET C–200 FOR TYPICAL BEACHFILL CROSS SECTIONS.
6. EXISTING DUNES THAT MEET OR EXCEED THE DESIGN TEMPLATE SHALL NOT BE EXCAVATED TO CONSTRUCT NEW DUNE.

US Army Corps of Engineers
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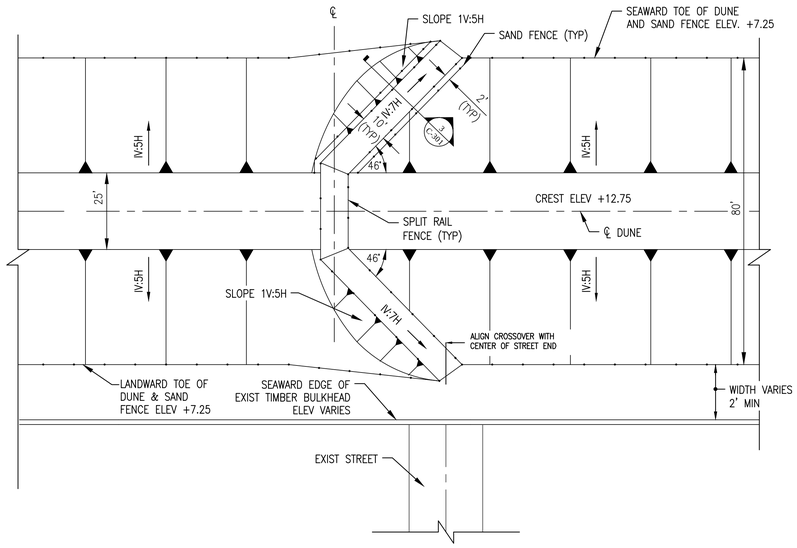
DWN BY: DTB
CKD BY: DTB
APV BY: DAN
DESIGNED BY: DTB
REVIEWED BY: TEV
DWG SCALE: AS SHOWN
DWG. SIZE: 22"x34" (ANSI E)

ISSUE/RELEASE DATE: 95% - 22 NOV 13
PROJ. NUMBER: -
SOLICITATION NUMBER: W912BU-14-B-0202
CONTRACT NUMBER: -
FILE NAME: C200TYP-US-DUNE CONSTRUCTION.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY

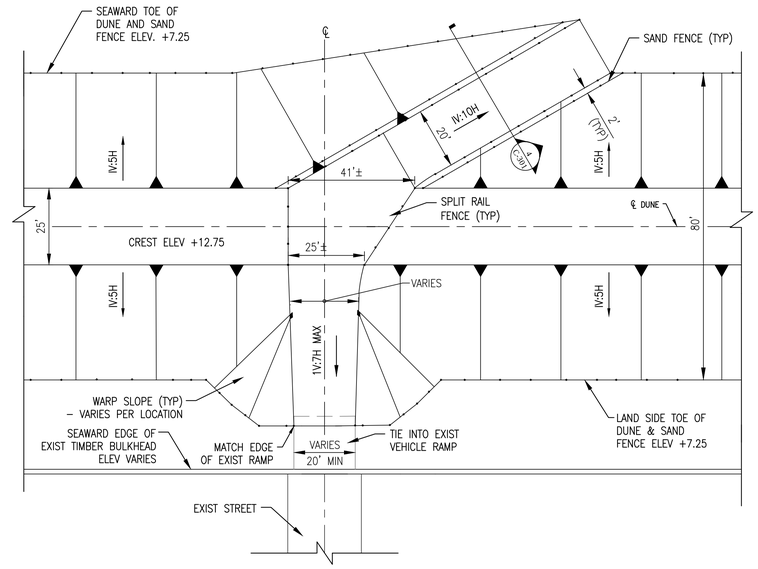
INITIAL BEACHFILL
MARGATE AND LONGPORT
DETAILS - DUNE CONSTRUCTION

SHEET NUMBER
C-400



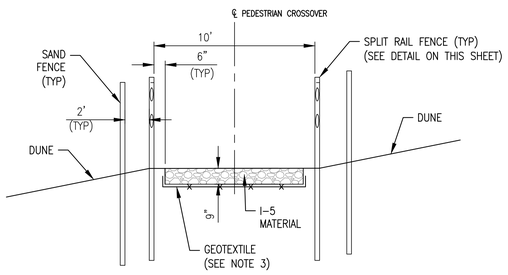
1 PLAN - STANDARD PEDESTRIAN CROSSOVER
SCALE = 1" = 20'

20 0 20 40
SCALE IN FEET

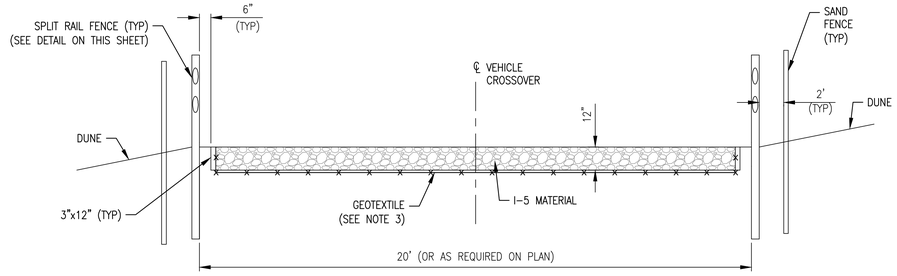


2 PLAN - STANDARD VEHICLE CROSSOVER
SCALE = 1" = 20'

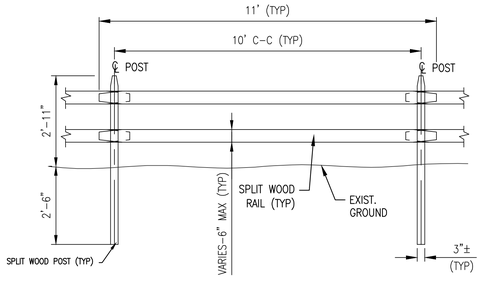
20 0 20 40
SCALE IN FEET



3 SECTION
SCALE = NOT TO SCALE

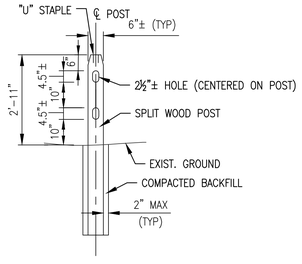


4 SECTION
SCALE = NOT TO SCALE



5 TYPICAL ELEVATION - SPLIT RAIL FENCE
SCALE = 1" = 2'

2 0 2 4
SCALE IN FEET



6 DETAIL - TWO RAIL SPLIT POST
SCALE = 1" = 2'

2 0 2 4
SCALE IN FEET

NOTES:

1. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS AND SHEET C-300 FOR DUNE CONSTRUCTION DETAILS AND DUNE GRASS PLANTING REQUIREMENTS.
2. SEE SHEET C-002 FOR LIST OF DUNE CROSSOVER LOCATIONS BY STATION.
3. GAP BETWEEN GEOTEXTILE AND I-5 MATERIAL SHOWN FOR CLARITY ONLY; THE GEOTEXTILE SHALL ONLY TURN VERTICAL FOR HALF THE THICKNESS OF THE I-5 MATERIAL.
4. THE LAYOUT OF THE VEHICLE CROSSOVERS ON THE OCEAN SIDE OF NEW DUNES MAY BE CONSTRUCTED OPPOSITE TO LAYOUT SHOWN ON THIS SHEET TO SUIT EXISTING CONDITIONS. SEE SHEETS C-102 TO C-108.
5. EXISTING VEHICLE RAMPS VARY IN SIZE AND MAY NOT BE PERPENDICULAR TO THE CENTERLINE OF THE NEW DUNE. ADJUST THE LAYOUT OF THE VEHICLE RAMPS FROM THE TOP OF DUNE TO THE EXISTING VEHICLE RAMPS OR EXISTING GROUND TO SUIT EXISTING CONDITIONS AS SHOWN ON SHEETS C-102 TO C-108.

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PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
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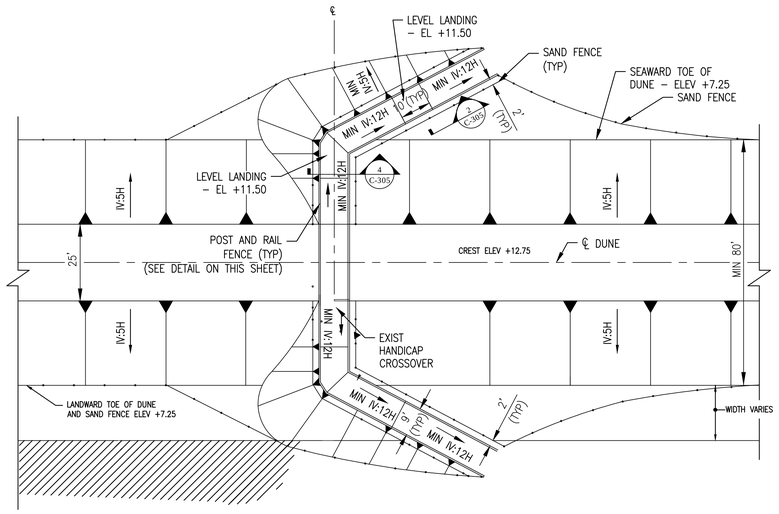
DWN BY: DTB
CKD BY: CMS
DESIGNED BY: DTB
REVIEWED BY: TB
ISSUE/RELEASE DATE: 90% - 22 NOV 13
PROJ. NUMBER:
SOLICITATION NUMBER: W912BU-14-B-0002
CONTRACT NUMBER:
DWG. SCALE: AS SHOWN
DWG. SIZE: 22"x34" (ANSI D)
FILE NAME: C401-C500 2013 MLS_STANDARD PEDESTRIAN AND VEHICULAR CROSSOVERS.DWG

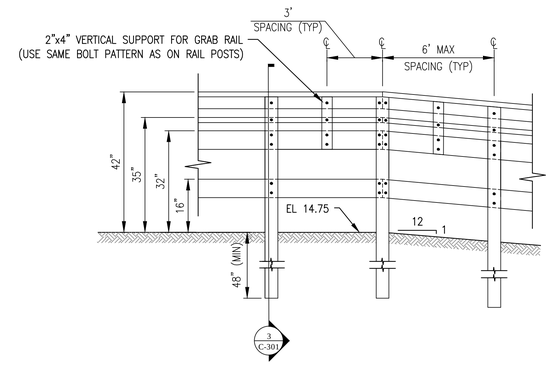
BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
DETAILS - PEDESTRIAN AND VEHICULAR CROSSOVERS

SHEET NUMBER
C-401

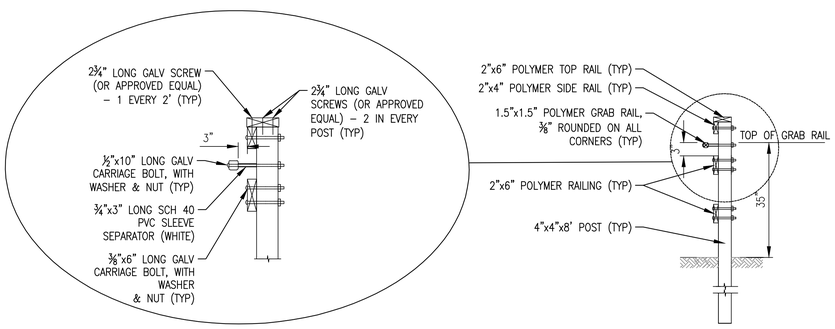


1 PLAN - HANDICAP CROSSOVER
SCALE = 1" = 20'

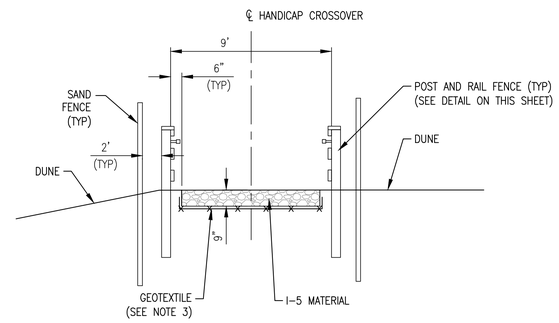
20 0 20 40
SCALE IN FEET



2 ELEVATION - POST AND RAIL FENCE
SCALE = NOT TO SCALE



3 DETAIL - POST AND RAIL FENCE
SCALE = NOT TO SCALE



4 SECTION - POST AND RAIL FENCE
SCALE = NOT TO SCALE

NOTES:

1. GRADE TOP & SIDE SLOPES OF DUNE TO PROVIDE 2' CLEARANCE BETWEEN THE TOP OF THE BEACHFILL TEMPLATE AND THE BOTTOM OF THE EXISTING STRUCTURAL MEMBERS SUPPORTING THE DECKING OF EXISTING BUILDING/PLATFORMS AND STAIRS. GRADING WILL VARY WITH EXISTING CONDITIONS.
2. SEE SHEET C-200 FOR TYPICAL BEACHFILL CROSS SECTIONS AND SHEET C-300 FOR DUNE CONSTRUCTION DETAILS AND DUNE GRASS PLANTING REQUIREMENTS.
3. GAP BETWEEN GEOTEXTILE AND I-5 MATERIAL SHOWN FOR CLARITY ONLY; THE GEOTEXTILE SHALL ONLY TURN VERTICAL FOR HALF THE THICKNESS OF THE I-5 MATERIAL.

US Army Corps of Engineers
Philadelphia District

MARK	ACTION	DATE	BY	DESCRIPTION
-	-	-	-	-

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
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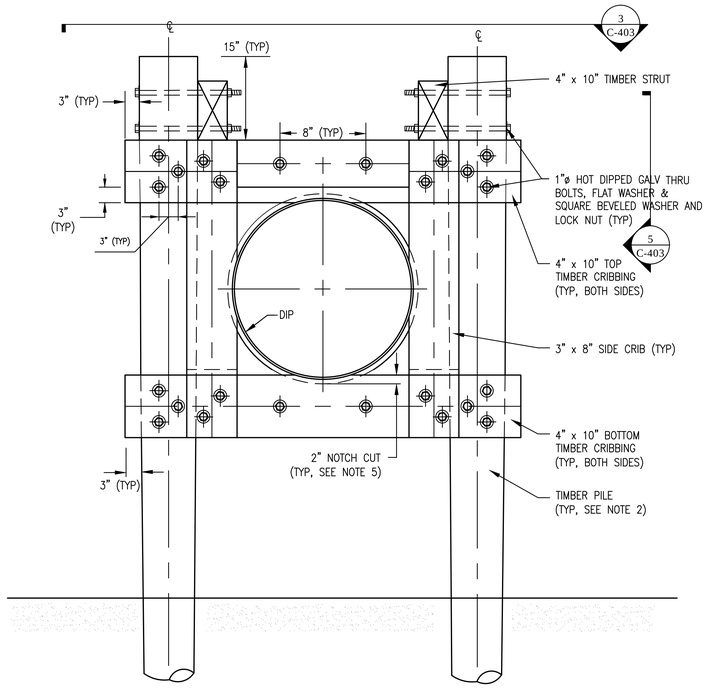
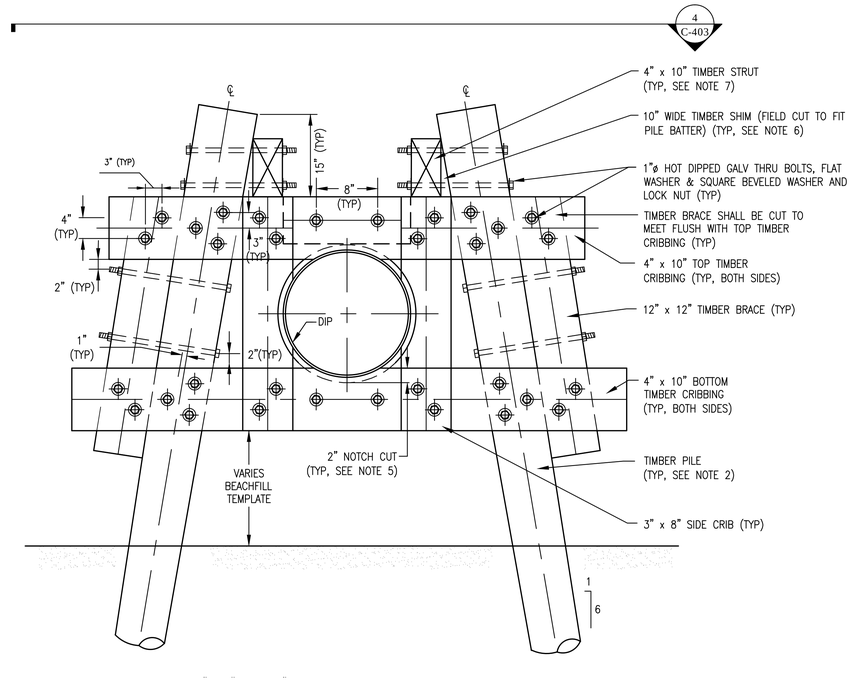
DWN BY: DTB	DESIGNED BY: DTB
CKD BY: DAN	REVIEWED BY: TEB
DWG. SCALE: AS SHOWN	SOLICITATION NUMBER: W912GJ-14-S-0202
DWG. SIZE: 30"x42" (ANSI E)	CONTRACT NUMBER:
	FILE NAME: C200-C300-C400-DETAILS - HANDICAP-CROSSOVER.dwg
	ISSUE/RELEASE DATE: 90% - 22 NOV 13
	PROJ. NUMBER:

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
DETAILS - HANDICAP CROSSOVER

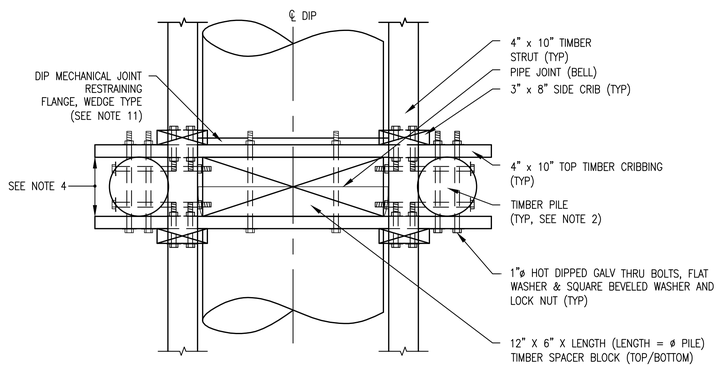
SHEET NUMBER
C-402



1 DETAIL - TYPE A PIPE SUPPORT
SCALE: 1" = 10'

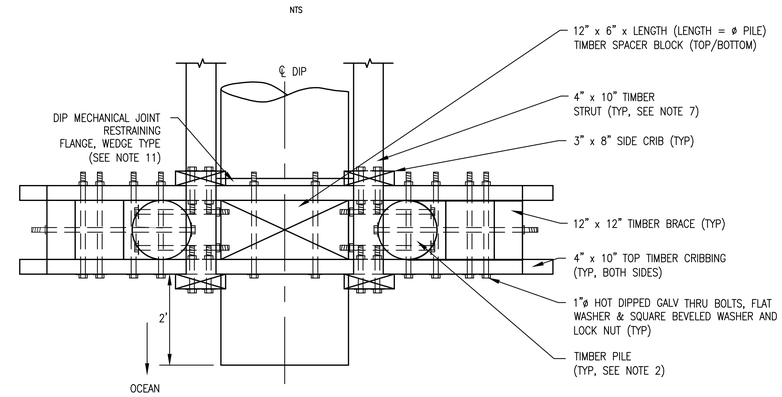


2 DETAIL - TYPE B PIPE SUPPORT
SCALE: 1" = 10'1 51/256" = 1'-0"

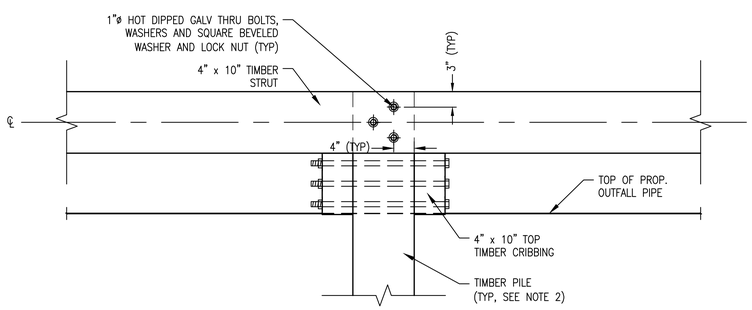


3 PLAN A-A
SCALE: 1" = 10'

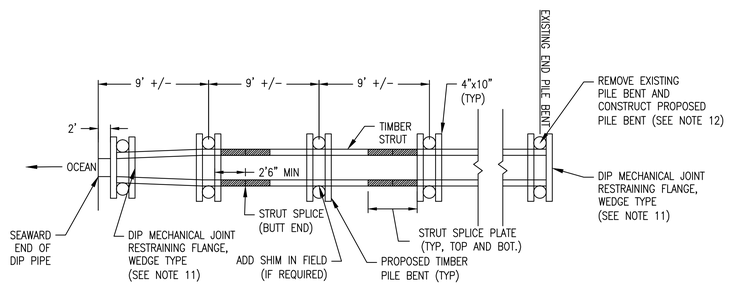
NTS



4 PLAN B-B
SCALE: 1" = 10'



5 SECTION C-C
SCALE: 1" = 1'



6 PLAN - OUTFALL EXTENSION AND TIMBER STRUT
SCALE: 1" = 5'2 51/128" = 1'-0"

NOTES:

1. SEE SHEET C-001 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. ALL NEW PILES SHALL HAVE A TIP ELEVATION OF –20FT NAVD88. SEE SPECIFICATIONS FOR MINIMUM CIRCUMFERENCE.
3. ALL DIP PIPE DIAMETERS REFER TO INNER PIPE DIMENSIONS.
4. THE NEW PILES SHALL BE SPACED TO ENSURE THAT THE PIPE JOINTS ARE LOCATED WITHIN THE PILE BENT SYSTEM. THE O.D. OF THE PIPE BELL SHALL BE PLACED IN CONTACT WITH THE SEAWARD MOST TIMBER CRIBBING MEMBERS OF EACH PILE BENT.
5. CUT NOTCH TO FIT EXACT CIRCUMFERENCE OF PIPE (SEE CONTRACT SPECIFICATIONS).
6. THE THICKNESS OF THE SHIM AT THE THINNEST END SHALL NOT BE LESS THAN 1".
7. THE TIMBER STRUTS SHALL BE SPLICED BETWEEN PILE BENTS. THE MINIMUM DISTANCE OF SPLICE SHALL BE 2.5' FROM THE O.D. OF THE PILE.
8. THE TERM "TIMBER" REFERS TO DRESSED LUMBER WITH NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED.
9. ALL BOLTS SHALL BE PEENED. PEENING SHALL BE CARRIED DOWN TO THE NUT TO PREVENT THE NUT FROM LOOSENING.
10. UPON COMMENCING WORK ON AN OUTFALL, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR MAINTAINING FLOW OF THE OUTFALL FOR THE REMAINDER OF THE CONTRACT.
11. THE DIP MECHANICAL JOINT RESTRAINING FLANGE (WEDGE TYPE) SHALL BE INSTALLED ON THE LANDWARD SIDE OF BOTH THE SEAWARD MOST PIPE SUPPORT STRUCTURE AND LANDWARD MOST PIPE SUPPORT STRUCTURE CONSTRUCTED FOR EACH OUTFALL.
12. REMOVE THE SEAWARD MOST EXISTING PILE BENT AND BEGIN NEW PIPE SUPPORT SYSTEM AT THIS LOCATION, UNLESS OTHERWISE DIRECTED BY THE COR.

US Army Corps of Engineers
Philadelphia District

MARK	LOCATION	DESCRIPTION	DATE	BY
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U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
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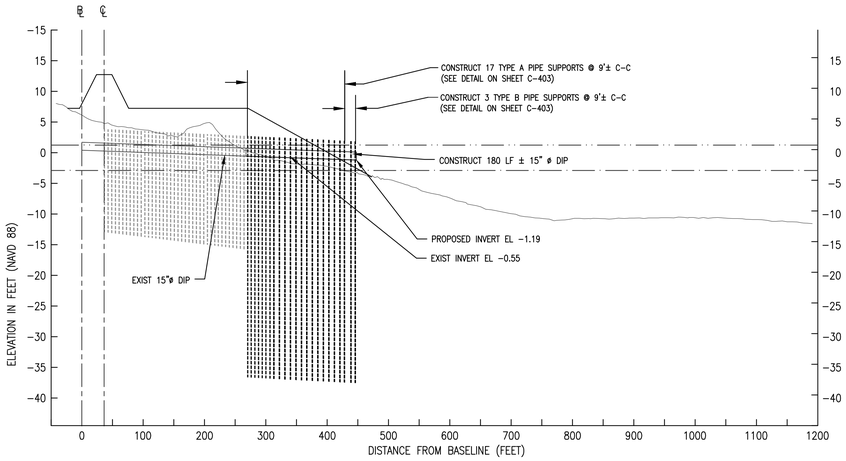
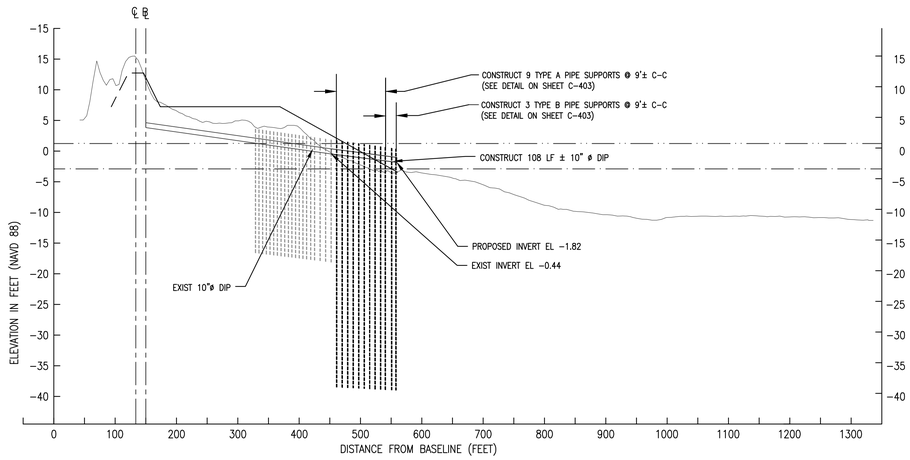
DWN BY: DTB | DESIGNED BY: DTB | ISSUE/RELEASE DATE: 90% - 22 NOV 13
CKD BY: CAN | REVIEWED BY: TEL | PROJ. NUMBER:
DWG. SCALE: AS SHOWN | SOLICITATION NUMBER: B9.W9250-14-0-0002
DWG. SIZE: 30"x42" (ANSI E) | CONTRACT NUMBER:
FILE NAME: C-403TYPE-A-INITIAL SUPPORTS.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
DETAILS - OUTFALL SUPPORTS

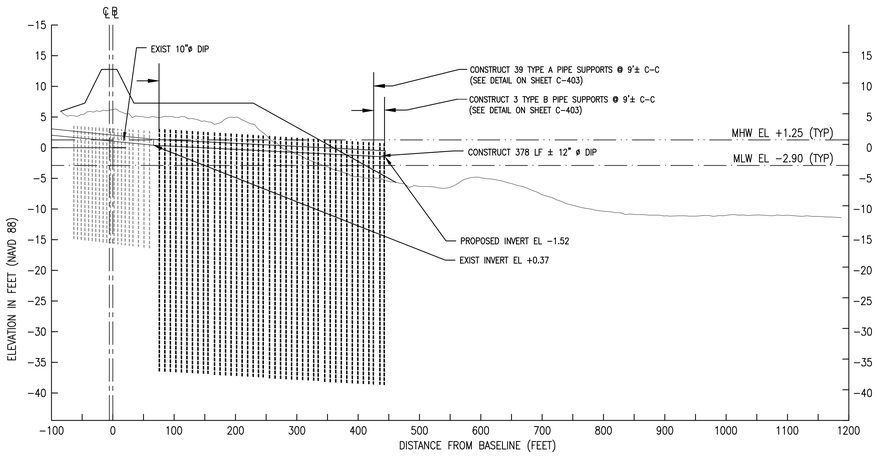
SHEET NUMBER
C-403



STA. 374+99



STA. 362+51



STA. 350+64

1 PROFILE - OUTFALLS
SCALE: 1" = 100'

US Army Corps of Engineers
Philadelphia District

MARK	ACTION	BY	DATE	DESCRIPTION
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

MARK	ACTION	BY	DATE	DESCRIPTION
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

U.S. ARMY CORPS OF ENGINEERS
PHILADELPHIA DISTRICT
PHILADELPHIA, PA 19107-3390
www.nap.usace.army.mil

DRAWN BY: DTB
CKD BY: DAN
DESIGNED BY: DTB
REVIEWED BY: REL
ISSUE/RELEASE DATE: 90% - 21 NOV 13
PROJ. NUMBER:
SOLICITATION NUMBER: W912DQ-14-B-0002
CONTRACT NUMBER:
DWG SCALE: AS SHOWN
DWG. SIZE: 36"X24" ANSI E
FILE NAME: C500PROFILE - OUTFALLS.dwg

BRIGANTINE INLET TO GREAT EGG HARBOR INLET
ABSECON ISLAND, ATLANTIC COUNTY, NEW JERSEY
INITIAL BEACHFILL
MARGATE AND LONGPORT
PROFILE - OUTFALLS

SHEET NUMBER
C-500