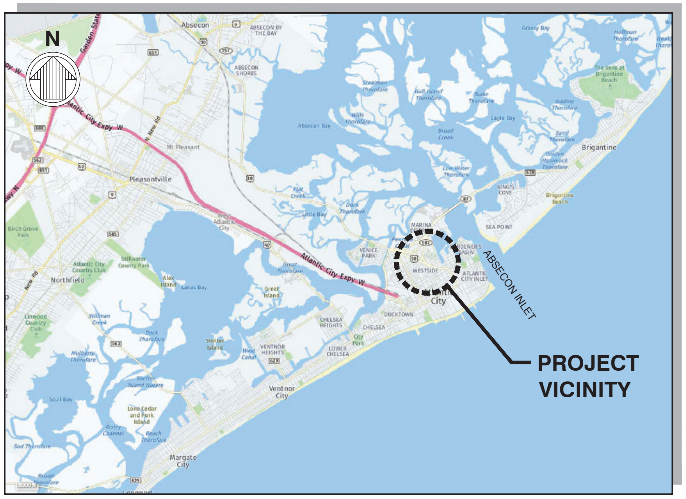
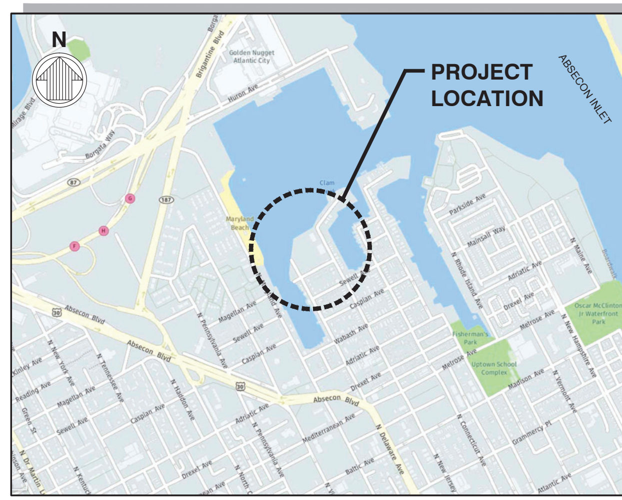
ORSTED ATLANTIC CITY O&M MARINE TERMINAL

ATLANTIC CITY, NEW JERSEY



VICINITY MAP
SCALE: NTS



LOCATION PLAN
SCALE: NTS

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

Mark	Description	Date	Appr

ØRSTED ATLANTIC CITY O&M MARINE TERMINAL

TITLE SHEET

moffatt & nichol
180 WELLS AVENUE, SUITE 302
NEWTON, MA 02459
617-299-7330

Designed by: JG		Date: 10-08-2021	Rev. -
Dwn by: CM	Ckd by: NC	M&N Project No. 210176	
Reviewed by: NC		Drawing code:	
Submitted by: MOFFATT & NICHOL		Drawing Scale: Plot scale: 1:1 (D SHEET)	

SEAL

Sheet Reference No.
G-001
INDEX: 1 OF 88

File: Q:\BOS\Projects\210176 Orsted Atlantic City O&M Terminal\20 CADD_Active_SheetSet\210167G-001 ; Plotted: 10/6/2021 12:32 PM by MOYA IGLESIAS, CRISTIAN ; Saved: 10/6/2021 10:36 AM by CMOYAIGLESIAS

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.
2. ALL FEDERAL, STATE, AND LOCAL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED.
3. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS AND REGULATIONS.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
5. DIMENSIONS AND ELEVATIONS INDICATED FOR EXISTING CONDITIONS ARE ROUGHLY MEASURED IN THE FIELD AND SHOULD BE CONSIDERED AS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, STATIONING AND ELEVATIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND.
6. PRIOR TO SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE TO REVIEW CONDITIONS AFFECTING DEMOLITION AND CONSTRUCTION.
7. ALL WORK SHALL COMPLY WITH THE LATEST BUILDING, ELECTRICAL AND MECHANICAL CODES, AND CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS. CODES SHALL BE THE LATEST ISSUE, INCLUDING SUPPLEMENTS, UNLESS OTHERWISE NOTED.
8. THESE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD, MEANS, OR PROCEDURES OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ADJACENT INFRASTRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING AND/OR SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT.
9. THE FOLLOWING DATA IS PROVIDED REGARDING TIDAL INFORMATION. TIDAL INFORMATION WAS OBTAINED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). ELEVATIONS ARE REFERENCED ON THE 1983-2001 EPOCH.
   A. THE TIDAL DATA SHOWN WAS TAKEN FROM THE U.S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) VERTICAL ONLINE DATUM TRANSFORMATION PROGRAM, DETERMINED AT THE FOLLOWING LOCATION:
      LONGITUDE: 39°22'28"N
      LATITUDE: 74°25'35"W
   B. TIDAL DATA IS PER NOAA AVERAGES BASED ON 1983 - 2003 TIDAL EPOCH AND NOT GUARANTEED TO REPRESENT CONDITIONS WHICH MAY OCCUR DURING CONSTRUCTION, ACTUAL TIDES WILL VARY FROM LEVELS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN ESTIMATES OF TIDES WHICH MAY OCCUR DURING CONSTRUCTION. VARIATION OF TIDAL LEVELS FROM THOSE INDICATED OR CONTRACTOR'S ESTIMATION OF TIDAL LEVELS SHALL NOT BE CONSIDERED AS A CLAIM FOR ADDITIONAL COMPENSATION OR DELAY OF THE WORK.

TIDAL PARAMETER	ELEVATION (FT NAVD88)
FEMA BASE FLOOD ELEVATION	12
DESIGN STILL WATER LEVEL (100-YR FLOOD WITH SEA LEVEL RISE IN 2074)	11.4
MEAN HIGHER-HIGH WATER (MHHW)	2.08
MEAN HIGH WATER (MHW)	1.70
NAVD88	0
MEAN SEA LEVEL (MSL)	-0.24
MEAN LOW WATER (MLW)	-2.20
MEAN LOWER LOW WATER (MLLW)	-2.38

10. HORIZONTAL DATUM IS BASED ON NEW JERSEY STATE PLANE (NAD83), UNLESS OTHERWISE NOTED.
11. ALL ELEVATIONS PROVIDED ON THE DRAWINGS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD 1988).
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CONSTRUCTION SITE AND THE AREAS OF WORK WHILE PERFORMING THE WORK OF THIS CONTRACT. CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE ON A DAILY BASIS. NO BURNING OF DEBRIS SHALL BE PERMITTED.
13. DURING ALL PHASES OF THE WORK ALL PRECAUTIONS SHALL BE TAKEN AS NECESSARY OR AS REQUIRED TO PREVENT CONTAMINATED WATER, VEHICLE FLUIDS, CONSTRUCTION DEBRIS, AND ANY OTHER CONTAMINANT FROM ENTERING THE WATERWAY.
14. CONTRACTOR SHALL INSTALL A FLOATING BOOM SYSTEM THAT FULLY ENCLOSES THE WORK AREA. THIS BOOM SHALL BE ANCHORED IN PLACE OR ATTACHED TO A FIXED STRUCTURE. THIS BOOM SHALL BE CAPABLE OF COLLECTING ANY FLOATING DEBRIS GENERATED DURING CONSTRUCTION ACTIVITIES. DEBRIS SHALL BE COLLECTED AND DISPOSED OF FROM THIS BOOM ON A DAILY BASIS.
15. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY AND DRAWINGS OF COMPLETED WORK TO ENGINEER. AS-BUILTS SHALL BE BOTH HARD COPY AND ELECTRONIC FORMAT (PDF AND NATIVE / CAD VERSION).
16. COORDINATE ALL DEMOLITION AND CONSTRUCTION ACTIVITIES WITH THE OWNER.
17. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE STRUCTURAL DRAWINGS.
18. THE CONTRACTOR SHALL CONDUCT OPERATIONS SO AS TO NOT INTERFERE WITH OR BE DETRIMENTAL TO VESSEL AND VEHICULAR TRAFFIC DURING THE COURSE OF THE WORK.
19. THE ACCURACY OF EXISTING STRUCTURES SHOWN ON PLANS ARE NOT GUARANTEED. ACTUAL FIELD CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF MATERIALS, ORDERING MATERIALS, OR PERFORMING WORK.
20. ALL EXCAVATION, TRENCHING, SHEETING, SHORING AND BRACING SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING OSHA.
21. THE LOCATION OF UTILITIES AND STRUCTURES SHOWN HEREIN HAS BEEN TAKEN FROM AVAILABLE RECORDS. OWNER DOES NOT WARRANT THE COMPLETENESS OR CORRECTNESS OF THEIR LOCATIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND VERIFY ALL UTILITIES AND STRUCTURES WHETHER SHOWN HEREIN OR NOT, BEFORE COMMENCING WORK, AND PROTECT THEM FROM DAMAGE. SHOULD UTILITIES OR STRUCTURES BE ENCOUNTERED THAT ARE NOT INDICATED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
22. THE CONTRACTOR SHALL VERIFY AND COORDINATE WITH ENGINEER ANY UTILITY LINES AND EQUIPMENT THAT MAY INTERFERE WITH THE WORK.
23. ALL TEMPORARY UTILITIES NECESSARY FOR CONSTRUCTION SHALL BE PROVIDED AT THE EXPENSE OF THE CONTRACTOR.
24. CONSTRUCTION LOADS AND SUPPORTS:
   a. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITION SURVEY AND PREPARATION OF CALCULATIONS TO CONFIRM THE EXISTING STRUCTURE'S CAPACITY FOR THE ANTICIPATED CONSTRUCTION LOADS.
   b. PROVIDE TEMPORARY SUPPORT TO EXISTING STRUCTURES AS REQUIRED TO MAINTAIN STABILITY, ALIGNMENT, AND LOCATION, AVOID UNDUE STRESS, AND PREVENT DAMAGE PRIOR TO AND DURING REMOVAL, REPAIR AND/OR CONSTRUCTION.
25. A GEOTECHNICAL INVESTIGATION OF THE SITE WAS PERFORMED BY CONETEC INC DATED JULY 15 AND 16, 2021.
26. EXISTING BATHYMETRY SHOWN ON THESE PLANS IS BASED ON SURVEY DATA GATHERED ON NOVEMBER 5, 2019 AND NOVEMBER 6, 2019 BY ACT ENGINEERS, INC.
27. DESIGN VESSELS PARAMETERS:

    CREW TRANSFER VEHICLE (CTV):
    - LOA: 98 FT
    - BEAM: 33 FT
    - DRAFT : 6.6 FT

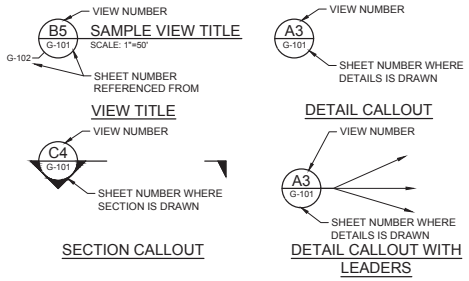
    SURFACE EFFECT SHIP (SES):
    - LOA: 98 FT
    - BEAM: 36 FT
    - DRAFT : 10 FT

28. ALL STRUCTURES SHALL BE CONSTRUCTED OF NON-POLLUTING MATERIAL.
29. TOPOGRAPHIC, PLANOMETRIC, AND UTILITY SURVEYS ARE BASED ON AN ALTA SURVEY PUBLISHED BY DENNIS W. SKYLAR, INC. ON JUNE 4, 2020.
30. ENSURE THAT ALL PIPES, CATCH BASINS, MANHOLES, SWALES, ETC. WITHIN AND NEAR THE AREAS OF WORK ARE KEPT FREE FROM MATERIAL THAT COULD HAMPER THE PERFORMANCE OF THE DRAINAGE SYSTEMS. UPON COMPLETION OF CONSTRUCTION, REMOVE ACCUMULATED SEDIMENT, DISPOSE OF ALL UNSUITABLE OR EXCESS EXCAVATED MATERIALS AWAY FROM THE PROJECT SITE, AND GRADE ALL AREAS WITHIN THE LIMITS OF CONSTRUCTION FOR POSITIVE DRAINAGE.
31. BEFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL SUBMIT A DETAILED WORK PLAN, INCLUDING SEQUENCE, TIMING AND METHODS AND LOGISTICS OF OPERATION FOR REVIEW AND APPROVAL BY THE CONTRACTING OFFICER.
32. UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS, EQUIPMENT, AND UNUSED MATERIALS FROM THE PROJECT SITE.
33. THE CONTRACTOR SHALL REMOVE ALL PONDED WATER, ICE, AND SNOW DUE TO STORMS FROM THE SITE AT THE CONTRACTOR'S EXPENSE.
34. EXERCISE CARE TO PREVENT DAMAGE TO ANY MATERIALS OR STRUCTURES THAT ARE TO REMAIN IN PLACE WITHIN AND OUTSIDE THE LIMITS OF WORK. ANY DAMAGE SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
35. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ANY NECESSARY SAFEGUARDS TO PROTECT PUBLIC SAFETY AND ADJOINING PROPERTIES. THE CONTRACTOR SHALL COVER/PROTECT EXCAVATED AREAS AT THE END OF EACH WORK DAY TO PREVENT ACCIDENTAL FALL.
36. PROVIDE AND MAINTAIN ALL NECESSARY EQUIPMENT AND METHODS TO KEEP EXCAVATIONS FREE OF WATER AND PROTECT WORK FROM DAMAGE BY WATER DURING ALL STAGES OF CONSTRUCTION.
37. ALL PRECAUTIONS SHALL BE TAKEN AS NECESSARY TO AS MAY BE REQUIRED TO PERMANENTLY PREVENT CONTAMINATED WATER, GASOLINE, AND ANY OTHER CONTAMINANT FROM ENTERING EXCAVATIONS MADE DURING THE CONTRACT WORK.
38. ALL FIRE HYDRANTS ARE TO REMAIN OPERATIONAL DURING CONSTRUCTION UNLESS SPECIFICALLY INDICATED FOR REMOVAL.
39. CONTRACTOR IS ADVISED THAT EXISTING MANHOLES AND HANDHOLES LIKELY CONTAIN WATER AND DEBRIS. CONTRACTOR IS RESPONSIBLE OF PUMPING OUT AND REMOVING DEBRIS FROM MANHOLES AND HANDHOLES AS NECESSARY TO PERFORM THE WORK AT THE CONTRACTOR'S SOLE EXPENSE.
40. THE LOCATION OF ALL UTILITIES INDICATED ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES FOR FIELD MARK-OUTS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO THE START OF ANY WORK TO DETERMINE IF ANY CONFLICTS WILL OCCUR. UTILITIES SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
41. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
42. ALL WORK UNDER THIS CONTRACT IS SUBJECT TO THE SPECIAL INSPECTION REQUIREMENTS OF THE NEW JERSEY BUILDING CODE. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE ENGINEER OF RECORD TO ENSURE THAT SPECIAL INSPECTIONS ARE CARRIED OUT. CERTAIN SPECIAL INSPECTIONS WILL REQUIRE THE CONTRACTOR TO HIRE A THIRD PARTY INDEPENDENT SPECIAL INSPECTION FIRM, WHILE OTHER SPECIAL INSPECTIONS WILL BE CARRIED OUT BY THE ENGINEER OF RECORD. THE TABLE BELOW PROVIDES A LIST OF SPECIAL INSPECTIONS REQUIRED BY THIS CONTRACT AND THE ENTITY RESPONSIBLE FOR EACH INSPECTION.

SPECIAL INSPECTION	RESPONSIBILITY
SHEET PILE DRIVING INSTALLATION	ENGINEER OF RECORD
BACKFILL AND COMPACTION	CONTRACTOR TO HIRE A 3RD PARTY TESTING AGENCY UNDER THE SUPERVISION OF THE ENGINEER OF RECORD
PDA TESTING	CONTRACTOR TO HIRE 3RD PARTY TESTING AGENCY
PIPE PILE INSTALLATION (CRANE FOUNDATION)	ENGINEER OF RECORD
SOIL ANCHOR INSTALLATION	ENGINEER OF RECORD
SOIL ANCHOR TESTING	CONTRACTOR TO HIRE 3RD PARTY TESTING AGENCY UNDER THE SUPERVISION OF THE ENGINEER OF RECORD
REBAR INSPECTION	ENGINEER OF RECORD
CONCRETE POUR SUPERVISION	ENGINEER OF RECORD
CONCRETE FIELD TESTING (SLUMP, AIR, TEMP ETC)	CONTRACTOR TO HIRE 3RD PARTY TESTING AGENCY UNDER THE SUPERVISION OF THE ENGINEER OF RECORD
CONCRETE BREAKS	CONTRACTOR 3RD PARTY TESTING AGENCY
PIPE PILE INSTALLATION (FLOATING DOCK GUIDE PILES)	ENGINEER OF RECORD
ANCHORAGES (ANCHOR BOLTS)	ENGINEER OF RECORD

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE	LF	LINEAR or LINEAL FEET
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LOA	LENGTH OVERALL
		LRFD	LOAD RESISTANCE FACTOR DESIGN
APPROX	APPROXIMATE	MAX	MAXIMUM
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	MHW	MEAN HIGH WATER
		MHHW	MEAN HIGHER HIGH WATER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MIN	MINIMUM
		MLW	MEAN LOW WATER
AWS	AMERICAN WELDING SOCIETY	MLLW	MEAN LOWER LOW WATER
BOA	BEAM OVERALL	NAVD	NORTH AMERICAN VERTICAL DATUM
BOC	BOTTOM OF CONCRETE	NIC	NOT IN CONTRACT
BOF	BOTTOM OF FENDER	NOAA	NATIONAL OCEAN AND ATMOSPHERIC ADMINISTRATION
BOT	BOTTOM		
CL	CENTERLINE	NOS	NATIONAL OCEAN SERVICE
CONC	CONCRETE	NTS	NOT TO SCALE
CONST	CONSTRUCTION	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CPT	CONE PENETRATION TEST		
CTV	CREW TRANSFER VESSEL	PSF	POUNDS PER SQUARE FOOT
DEMO	DEMOLITION	REQ'D	REQUIRED
DWGS	DRAWINGS	SES	SURFACE EFFECT SHIP
EA	EACH	SF	SQUARE FOOT
EG	EXISTING GROUND	STA	STATION
EL	ELEVATION	SWL	STILL WATER LEVEL
EOR	ENGINEER OF RECORD	TOW	TOP OF WALL
FT	FOOT or FEET	TYP	TYPICAL
IN	INCH	UON	UNLESS OTHERWISE NOTED
LB	POUND	VIF	VERIFY IN FIELD



* VIEW NUMBER IS BASED ON THE (DACS) LOCATION OF THE LOWER-LEFT EXTENTS OF THE VIEW ON THE REFERENCED SHEET. WHEN REFERENCING DRAWING INFORMATION BETWEEN SHEETS, BOTH THE VIEW AND SHEET NUMBERS MUST BE QUOTED TOGETHER - EITHER IN A CALLOUT FORMAT AS SHOWN ABOVE OR IN THE FORM;
"VIEW NO./SHEET NO." (EG A1/CS-5001)

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ØRSTED ATLANTIC CITY O&M MARINE TERMINAL

GENERAL NOTES AND ABBREVIATIONS

No.	Description	Date	Appr.

Designed by: JG
Drawn by: CM
Checked by: NC
Reviewed by: NC
Submitted by: KATHRYN TE NIJENHUIS
Date: 10-08-2021
Rev: -
M&N Project No: 210176
Drawing code:
Drawing Scale:
Plot scale: 11.0 (9 SHEET)

150 MELLS AVENUE, SUITE 302
NEWTON, MA 02459
617-2991330

SEAL

Sheet Reference No.
G-003
INDEX: 3 OF 88

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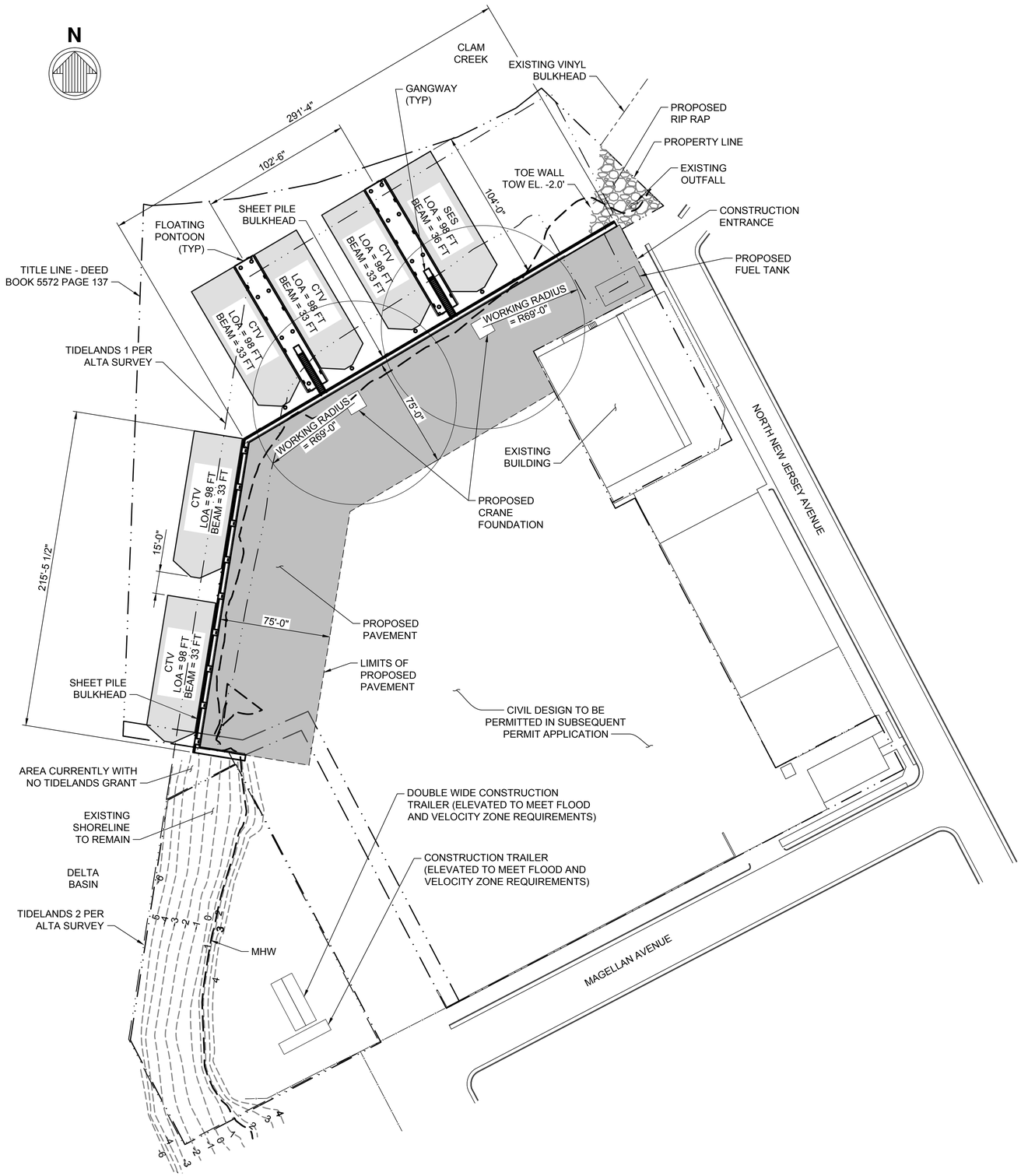

NOTES:

1. ALL ELEVATIONS ARE IN FEET RELATIVE TO NAVD88.
2. NEW BULKHEAD HAS A MAXIMUM 24 INCH OFFSET FROM EXISTING.

LEGEND:

- PROPOSED PAVING
- LIMITS OF WORK
- MHW

40' 0'-0" 40' 80'

SCALE: 1"=40'

PERMIT APPLICATION PLANS
ISSUED: 2021-10-26

Mark	Description	Date	Appr

ORSTED ATLANTIC CITY O&M MARINE TERMINAL
PERMIT APPLICATION PLANS

SITE PLAN

moffatt & nichol
180 WELLS AVENUE, SUITE 302
NEWTON, MA 02459
617-299-7330

Designed by:	JG
Drawn by:	CM
Reviewed by:	NC
Submitted by:	MOFFATT & NICHOL
Date:	07-02-2021
Cad by:	NC
M&N Project No.	210176
Drawing code:	
Drawing Scale:	
Plot scale:	1:1 (D SHEET)
Rev.	- -

SEAL

Sheet Reference No.
G-101
INDEX: 3 OF 21

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

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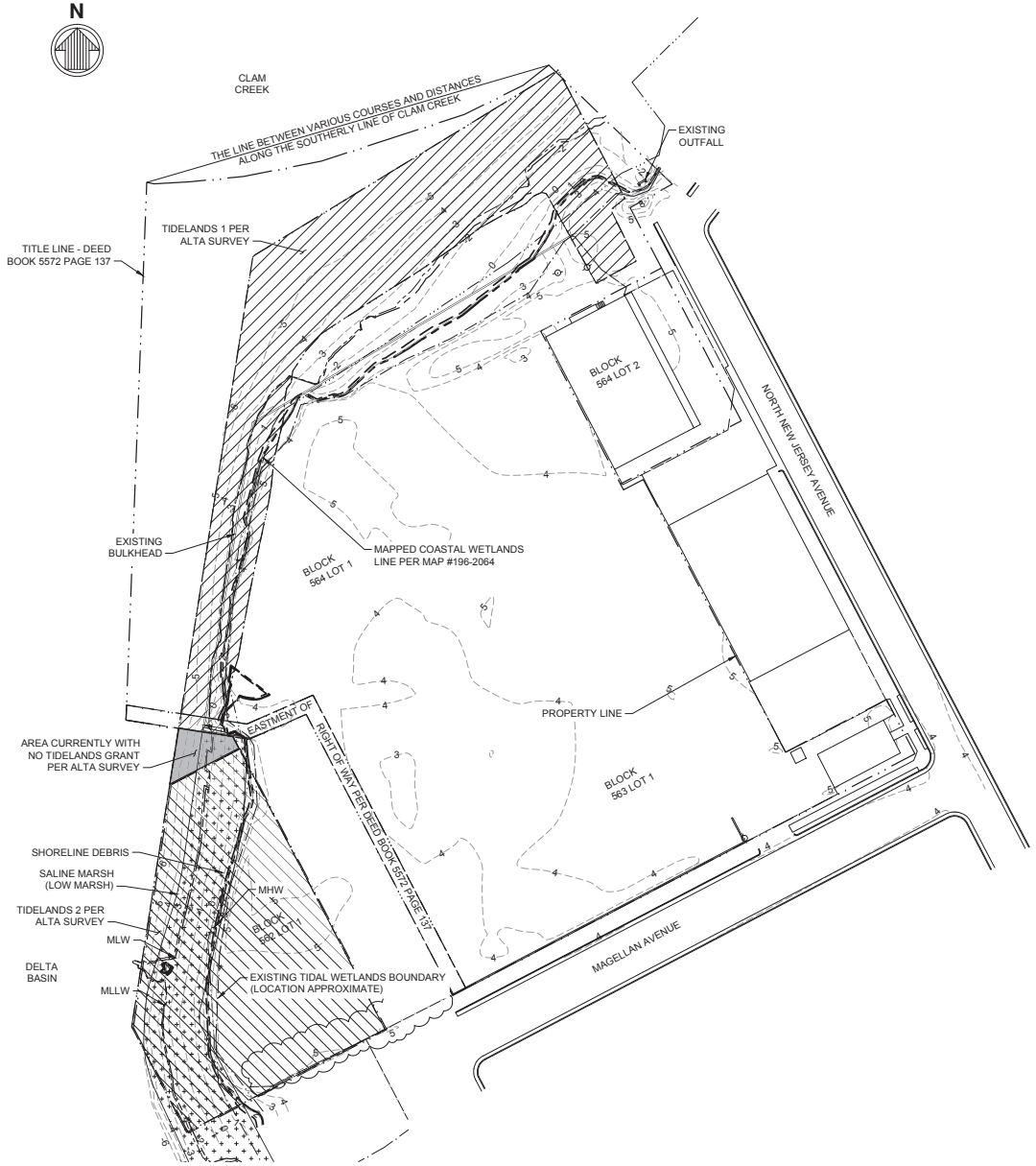

NOTES:

1. THE HORIZONTAL DATUM IS NAD83 NEW JERSEY STATE PLANE. THE VERTICAL DATUM IS NAVD88.
2. BATHYMETRIC DATA IS BASED ON A SURVEY COMPLETED BY ACT ENGINEERS, INC. ON 11/05/19 AND 11/06/19. TOPOGRAPHIC AND PROPERTY DATA IS BASED ON AN ALTA SURVEY PUBLISHED BY DENNIS W. SKLAR, INC. ON 06/04/2020.
3. MAPPED COASTAL WETLANDS LINE SOURCE: NJDEP BUREAU OF GIS.

DATUM	ELEVATION (FT)
MEAN HIGHER-HIGH WATER (MHHW)	2.08
MEAN HIGH WATER (MHW)	1.70
NAVD88	0
MEAN SEA WATER (MSL)	-0.24
MEAN LOW WATER (MLW)	-2.20
MEAN LOWER LOW WATER (MLLW)	-2.38

LEGEND:

- TITLE LINE - DEED BOOK 5572 PAGE 137
- HIGH TIDE LINE (WETLANDS LINE PER ALTA SURVEY)
- MHHW
- MHW
- MLW
- MLLW
- MAPPED COASTAL WETLANDS LINE PER MAP #196-2064
- TIDELANDS 1
- TIDELANDS 2
- SALINE MARSH

40' 0'-0" 40' 80'

SCALE: 1"=40'

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

Mark	Description	Date	Appr.

ØRSTED ATLANTIC CITY O&M MARINE TERMINAL

SURVEY AND EXISTING CONDITION

Designed by: JG
Drawn by: CM
Checked by: NC
Reviewed by: NC
Submitted by: KOPPA TT & NICHOLS
Date: 10-08-2021
Rev: -
M&N Project No: 210176
Drawing code:
Drawing Scale:
Plot scale: 1:1 (D SHEET)

150 WELLS AVENUE, SUITE 302
NEWTON, MA 02459
617-299-7330

SEAL

Sheet Reference No.
G-102
INDEX: 5 OF 88

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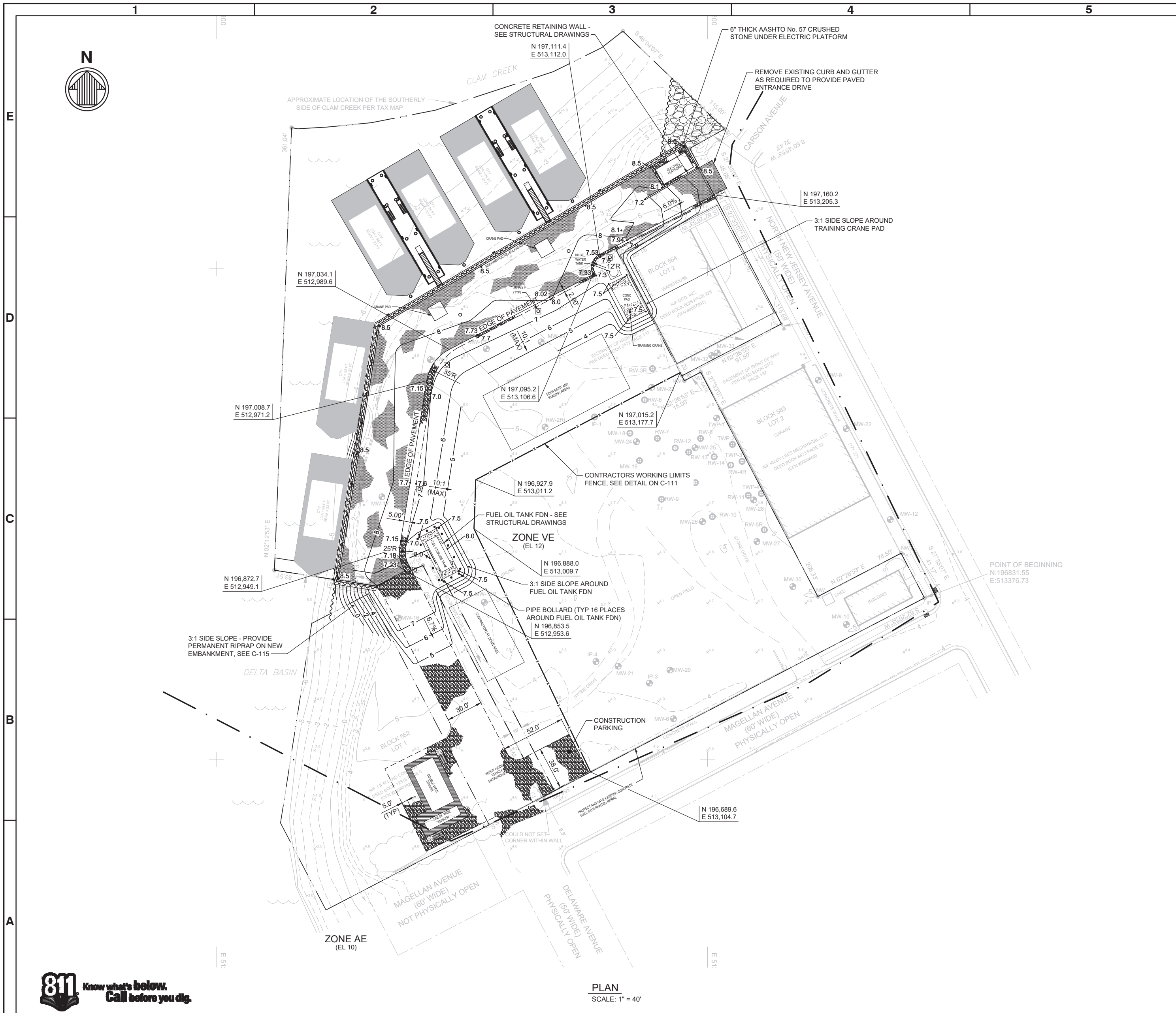
N
CONCRETE RETAINING WALL - SEE STRUCTURAL DRAWINGS
6" THICK AASHTO No. 57 CRUSHED STONE UNDER ELECTRIC PLATFORM
REMOVE EXISTING CURB AND GUTTER AS REQUIRED TO PROVIDE PAVED ENTRANCE DRIVE
3:1 SIDE SLOPE AROUND TRAINING CRANE PAD
CLAM CREEK
APPROXIMATE LOCATION OF THE SOUTHERLY SIDE OF CLAM CREEK PER TAX MAP
N 197,111.4
E 513,112.0
N 197,160.2
E 513,205.3
N 197,034.1
E 512,989.6
N 197,008.7
E 512,971.2
N 197,095.2
E 513,106.6
N 197,015.2
E 513,177.7
N 196,927.9
E 513,011.2
CONTRACTORS WORKING LIMITS FENCE, SEE DETAIL ON C-111
FUEL OIL TANK FDN - SEE STRUCTURAL DRAWINGS
ZONE VE
(EL 12)
N 196,888.0
E 513,009.7
3:1 SIDE SLOPE AROUND FUEL OIL TANK FDN
PIPE BOLLARD (TYP 16 PLACES AROUND FUEL OIL TANK FDN)
N 196,853.5
E 512,953.6
N 196,872.7
E 512,949.1
3:1 SIDE SLOPE - PROVIDE PERMANENT RIPRAP ON NEW EMBANKMENT, SEE C-115
EDGE OF PAVEMENT
10:1 (MAX)
DELTA BASIN
CONSTRUCTION PARKING
N 196,689.6
E 513,104.7
POINT OF BEGINNING
N:196831.55
E:513376.73
NORTH NEW JERSEY AVENUE
CARSON AVENUE
MAGELLAN AVENUE (60' WIDE) PHYSICALLY OPEN
MAGELLAN AVENUE (60' WIDE) NOT PHYSICALLY OPEN
DELAWARE AVENUE (50' WIDE) PHYSICALLY OPEN
ZONE AE
(EL 10)

PLAN

SCALE: 1" = 40'

811 Know what's below. Call before you dig.

NOTES:

1. BACKGROUND LAND SURFACE TOPOGRAPHY AND FEATURES ARE FROM A SURVEY BY DENNIS W. SKLAR, INC., DATED 6-24-2020. HORIZONTAL DATUM: NEW JERSEY STATE PLANE COORDINATES NAD 83 2011. VERTICAL DATUM: NAVD 88.
2. GEOTECHNICAL EVALUATION REPORT IS PROVIDED BY DUFFIELD ASSOCIATES, LLC., DATED SEPTEMBER 16,2021.
3. ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 31 00 00 EARTHWORK AND RECOMMENDATIONS IN THE GEOTECHNICAL EVALUATION REPORT. IN THE EVENT OF ANY CONFLICT BETWEEN THE SPECIFICATION AND THE GEOTECHNICAL RECOMMENDATIONS THE MORE STRINGENT REQUIREMENT APPLIES.

LEGEND:

- EXISTING CONTOUR ELEVATION
- EXISTING SPOT ELEVATION
- EXISTING BUILDING
- EXISTING TREE/BRUSH LINE
- EXISTING MONITORING WELL
- EXISTING MONITORING WELL (ABANDONED)
- EXISTING UTILITY POLE
- EXISTING FENCE
- FLOODPLAIN BOUNDARY
- NEW CONTOUR ELEVATION
- NEW SPOT ELEVATION
- NEW GRAVEL SURFACING
- NEW BITUMINOUS SURFACING
- NEW CONCRETE PAD/FOUNDATION

REFERENCES:

C-111 CIVIL SITE DETAILS

C-115 SOIL EROSION AND SEDIMENT CONTROL PLAN

FLOODPLAIN NOTES:

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), MAP NUMBER 34001C0456G, REVISED PRELIMINARY JANUARY 30, 2015, MOST OF THE PROPERTY LIES WITHIN THE SPECIAL FLOOD HAZARD AREA ZONE VE (EL 12), AN AREA INUNDATED BY 1% ANNUAL COASTAL FLOOD ZONE WITH VELOCITY HAZARD (WAVE ACTION), AND A SMALL PORTION OF THE PROPERTY LIES WITHIN ZONE AE (EL 10), AN AREA INUNDATED BY 1% ANNUAL FLOOD.

40' 0' 40' 80'

SCALE: 1"=40'

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

CIVIL SITE PLAN

Designed by: NW | Drawn by: KJF | Chk'd by: | Reviewed by: NW | Submitted by: WORLEY GROUP INC.

Date: 09-30-21 | Worley Project No.: 418008-00160 | Drawing code: | Drawing Scale: 1" = 40' | Plot scale: 1:1(D SHEET) | Rev:

Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

Worley

oneWay

SEAL

Sheet Reference No.
C-110

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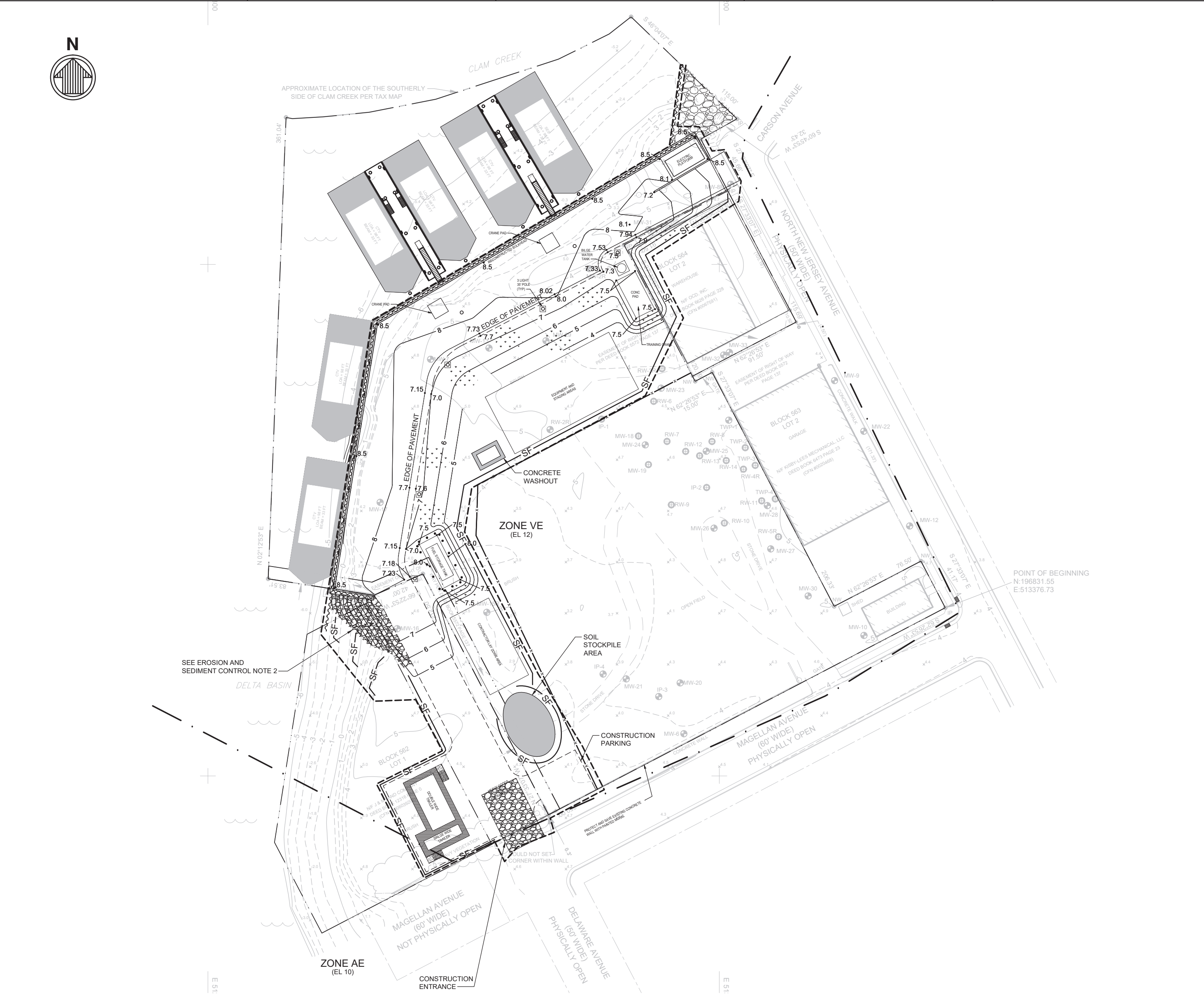
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

File: \\usreawpfl003\Projects\116200\116200\C-110 ; Plotted: 10/5/2021 3:42 PM by FRITZ, KERRY J. (READING) ; Saved: 9/30/2021 3:11 PM by ROBERT STOUDT



PLAN

SCALE: 1" = 40'

GENERAL NOTES:

1. BACKGROUND LAND SURFACE TOPOGRAPHY AND FEATURES ARE FROM A SURVEY BY DENNIS W. SKLAR, INC., DATED 6-24-2020. HORIZONTAL DATUM: NEW JERSEY STATE PLANE COORDINATES NAD 83 2011. VERTICAL DATUM: NAVD 88.

EROSION & SEDIMENT CONTROL NOTES:

1. FILTER SOCK MAY BE SUBSTITUTED FOR SILT FENCE.
2. SLOPE PROTECTION ON THIS AREA WITH GEOTEXTILE FABRIC, PROPEX GEOTEX 861 OR ENGINEER APPROVED EQUAL, UNDER RIPRAP ROCK. USE RIPRAP ROCK THAT CONSISTS OF UNIFORMLY GRADED MIXTURE OF ROCK d50 = 9", dmax = 14", AND THICKNESS = 18". ENSURE THAT THE STONES ARE A WELL-GRADED MIXTURE COMPOSED PRIMARILY OF THE LARGER STONE SIZE, BUT WITH A SUFFICIENT QUANTITY IF OTHER SIZES TO FILL THE PROGRESSIVELY SMALLER VOIDS BETWEEN THE STONES.

LEGEND:

5	EXISTING CONTOUR ELEVATION
x4.3	EXISTING SPOT ELEVATION
	EXISTING BUILDING
	EXISTING TREE/BRUSH LINE
	EXISTING MONITORING WELL
	EXISTING MONITORING WELL (ABANDONED)
	EXISTING UTILITY POLE
5	NEW CONTOUR ELEVATION
7.5	NEW SPOT ELEVATION
	CONSTRUCTION ENTRANCE
SF	SILT FENCE (SEE E&SC NOTE 1)
	LIMIT OF DISTURBANCE
	TEMPORARY SEEDING

REFERENCES:

C-110	CIVIL SITE PLAN
C-116 - C-117	SOIL EROSION AND SEDIMENT CONTROL NOTES
C-118 - C-120	SOIL EROSION AND SEDIMENT CONTROL DETAILS

SOIL INFORMATION NOTES:

SOIL BOUNDARY INFORMATION IS BASED ON NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY, VERSION 17 DATED JUNE 1, 2020.

PstAt - PSAMMAQUENTS, SULFIDIC SUBSTRATUM, 0 TO 2 PERCENT SLOPES, FREQUENTLY FLOODED (ENCONPASSES ENTIRE SITE). HYDROLOGIC SOIL GROUP (HSG) A/D, HYDRIC SOIL.

40' 0' 40' 80'

SCALE: 1"=40'

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

SOIL EROSION AND SEDIMENT CONTROL PLAN

Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

Designed by: NW | Drwn by: KJF | Chkd by: | Reviewed by: NW | Submitted by: | Date: 09-30-21 | Worley Project No. 418006-00160 | Drawing code: | Drawing Scale: 1" = 40' | Plot scale: 1:1(D SHEET) | Rev:

WORLEY GROUP INC.

SEAL

Sheet Reference No.
C-115
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

File: \\usreawpf003\Projects\11620001\1620001c-115 ; Plotted: 10/5/2021 3:52 PM by FRITZ, KERRY J. (READING) ; Saved: 9/30/2021 3:04 PM by KERRY.FRITZ

GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. THE CAPE ATLANTIC CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING AT LEAST 48 HOURS IN ADVANCE OF ANY LAND DISTURBANCE ACTIVITY.
2. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF "THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY".
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
4. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
5. N.J.S.A 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THERE HAS BEEN COMPLIANCE WITH PROVISIONS OF A CERTIFIED PLAN FOR PERMANENT MEASURES. ALL SITE WORK, AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
6. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 ½ TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH ONLY.
7. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 1 ½ TO 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS (NOT ANTICIPATED DURING THIS PROJECT PHASE).
8. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.
9. ANY STEEP SLOPES (3:1 OR GREATER) OR ANY EXISTING ROADWAYS RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES. (SLOPE GREATER THAN 3:1 IS NOT ANTICIPATED FOR THIS PROJECT).
10. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD AT ALL CONSTRUCTION DRIVEWAYS WHERE VEHICLES WILL ACCESS PAVED ROADWAYS FROM UNPAVED AREAS OF THE SITE.
11. ALL SEDIMENT WASHED, DROPPED, SPILLED, OR TRACKED ONTO ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES WILL BE REMOVED IMMEDIATELY.
12. PERMANENT VEGETATION IS TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING (NOT ANTICIPATED DURING THIS PROJECT PHASE).
13. AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
14. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
15. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL (NOT ANTICIPATED DURING THIS PROJECT PHASE).
16. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING.
17. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED BY THE STANDARD FOR DUST CONTROL.
18. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. THE DISTRICT RESERVES THE RIGHT TO DETERMINE WHEN CERTIFICATION OF A NEW AND SEPARATE SOIL EROSION AND SEDIMENT CONTROL PLAN WILL BE REQUIRED FOR THESE ACTIVITIES.
19. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6.
20. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
21. A REPORT OF COMPLIANCE MUST BE OBTAINED FROM THE DISTRICT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY FROM THE MUNICIPALITY. A REQUEST FOR A DISTRICT INSPECTION FOR THE RELEASE OF A REPORT OF COMPLIANCE MUST BE MADE 5 WORKING DAYS IN ADVANCE. THIS APPLIES TO BOTH COMPLETE (FINAL) AND CONDITIONAL (TEMPORARY) CERTIFICATES. ALL STREETS AND UNITS MUST BE PROPERLY IDENTIFIED. A REPORT OF COMPLIANCE WILL NOT BE RELEASED FOR A UNIT IF IT CANNOT BE IDENTIFIED. IDENTIFY ALL UNITS AT THE SITE BY BLOCK, LOT, AND STREET ADDRESS.
22. REMOVE ANY SEDIMENT THAT MAY BE SPILLED, DROPPED, OR TRACKED OFF THE PROJECT SITE. ALL PAVED RIGHT-OF-WAYS ADJACENT TO THE PROJECT SITE MUST BE MAINTAINED IN A CLEAN, SWEPT CONDITION THROUGHOUT CONSTRUCTION. INSTALL CRUSHED STONE PAD(S) TO HELP REDUCE OFF-SITE TRACKING OF SEDIMENT.
23. CONTRACTOR SHALL COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR PREVENTION AND ABATEMENT OF POLLUTION.
24. A COPY OF THE CERTIFIED EROSION AND SEDIMENT CONTROL PLANS MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.

CONSTRUCTION SEQUENCE

CONSTRUCTION STARTS JUNE 2022 AND ENDS NOVEMBER 2023.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED. CLEARING AND GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. MARINE CONSTRUCTION WORK MAY VARY BASED ON THE CONTRACTOR WORK PLAN, PROVIDED THAT ALL REQUIRED SOIL EROSION AND SEDIMENT CONTROL (SE&SC) MEASURES ARE IN PLACE PRIOR TO WORKING IN A GIVEN AREA, AND EACH AREA IS STABILIZED AS SOON AS PRACTICABLE UPON COMPLETION OF THE WORK. ANY OTHER DEVIATION FROM THE FOLLOWING SEQUENCE MUST BE APPROVED IN WRITING FROM THE PERMIT AGENCY.

1. BEFORE STARING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER/OPERATOR SHALL HAVE ALL REQUIRED PERMITS. ALL CONTRACTORS, ALL APPROPRIATE OFFICIALS, AND THE ENGINEERS SHALL HAVE AN ON-SITE PRE-CONSTRUCTION MEETING TO DISCUSS PLANS, SCOPE OF WORK, AND SE&SC MEASURES.
2. AT LEAST 3 FULL BUSINESS DAYS BEFORE STARTING ANT DISTURBANCE ACTIVITIES, CONTRACTOR SHALL CONTACT NEW JERSEY ONE CALL AT 811 OR 800-272-1000 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
3. THE CAPE ATLANTIC CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY LAND DISTURBANCE ACTIVITY.
4. SITE MOBILIZATION ---------- 3 WEEKS
5. INSTALL STABILIZED CONSTRUCTION ENTRANCE AT THE LOCATION SHOWN ON THE DRAWING. ---------- 1 WEEK
6. INSTALL SILT FENCE OR FILTER SOCKS AND ALL OTHER PERIMETER EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE PROJECT AREA AT THE LOCATIONS INDICATED ON THE DRAWINGS, INCLUDING NECESSARY CLEARING AND GRUBBING FOR THE INSTALLATION OF PERIMETER CONTROL ---------- 1 WEEK
7. INSTALL CONSTRUCTION TRAILERS ---------- 1 MONTH
8. DEMOLISH OR RELOCATE ANY UTILITIES ---------- 2 WEEKS
9. DEMOLISH EXISTING WAREHOUSE, REMOVE FOUNDATION, BACKFILL TO EXISTING GRADE, AND RE-FENCE FOR SECURITY---------- 1 MONTH
10. INSTALL SECURITY FENCE (IF REQUIRED)---------- 1 WEEK
11. INSTALL CONSTRUCTION PARKING AND LAYDOWN AREA ---------- 3 WEEKS
12. MARINE CONSTRUCTION WORK (JUNE 2022 TO NOVEMBER 2023) ---------- 18 MONTHS
    A. MARINE WORK MOBILIZATION
    B. BULKHEAD CONSTRUCTION
13. EARTHWORK ---------- 3 MONTHS
    A. CLEARING, GRUBBING, AND DISPOSITION OF MATERIALS.
    B. ROUGH GRADE SITE TO SUBGRADE AS SHOWN ON THE DRAWINGS.
14. INSTALL CONCRETE WASHOUT.
15. PERFORM CONCRETE WORK.
16. TEMPORARY VEGETATIVE COVER TO BE PERFORMED FOR SOIL STABILIZATION ---------- 6 MONTHS
17. INSTALL UTILITY LINES INCLUDING SANITARY SEWER, WATERLINE, ELECTRICAL TRENCH, ETC, AS SHOWN ON THE DRAWINGS-- 6 MONTHS
18. DURING THE CONSTRUCTION, INSTALL AND MAINTAIN ALL OTHER SEDIMENT BARRIERS INCLUDING BALES, SILT FENCE/SUPPER SILT FENCE, AND STONE BARRIER AS NECESSARY. DUST CONTROL ON CONSTRUCTION SITE AND ROAD BY APPLICATIONS OF MULCHES, VEGETATIVE COVER, OR SPRAY-ON ADHESIVES.
19. DURING CONSTRUCTION, DEWATER ANY SEDIMENT IN EXCAVATION AREA BY USE OF A WATER FILTER BAG.
20. A DISTURBED AREA IS CONSIDERED STABILIZED WHEN A UNIFORM EROSION RESISTANT PERENNIAL VEGETATIVE COVER OF AT LEAST 80% ON THE TOTAL DISTURBED AREA IS ESTABLISHED.
21. FINAL GRADE AND SURFACE THE ASPHALT PAVING AND SEED WITH PERMANENT SEED MIXTURE AND MULCH. HYDROSEEDING MAY BE APPLIED AS AN ALTERNATIVE TO CONVENTIONAL SEEDING AND MULCHING TECHNIQUES---------- 1 MONTH
22. ALL TEMPORARY CONTROLS ARE SHALL REMAIN IN PLACE DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR AND MAINTAIN THE MEASURES FOR THE DURATION OF THE WORK.
23. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OPERATOR SHALL CONTACT THE AGENCY FOR AN INSPECTION PRIOR TO THE REMOVAL/CONVERSION OF THE E&S BMPS.
24. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES, REMOVAL OF ALL TEMPORARY MEASURES, AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS ---------- 2 WEEKS
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROLS THROUGHOUT THE WORKING PERIOD OF THE PROJECT.

TEMPORARY CONTROL MEASURES

1. SILT FENCING MUST BE INSTALLED PARALLEL TO EXISTING CONTOURS OR CONSTRUCTED LEVEL ALIGNMENTS. FENCING END MUST EXTEND UPSLOPE SO THAT BOTTOMS OF FENCING ENDS ARE HIGHER THAN TOPS OF FENCING MAIN SECTIONS.
2. PRIOR TO THE SUSPENSION OF CONSTRUCTION OPERATIONS FOR APPRECIABLE LENGTHS OF TIME, THE CONTRACTOR SHALL SHAPE EARTHWORK IN A MANNER THAT WILL PERMIT STORM RUNOFF WITH A MINIMUM OF EROSION. EXPOSED SURFACES AND CUT SLOPES SHALL BE PROPERLY SEEDED AND STABILIZED.
3. EXCAVATION MATERIALS SHALL BE STOCKPILED ON UPPER SLOPE OF TRENCHES OR ROADWAYS SUCH THAT RUNOFF WILL BE IMPEDED FROM CROSSING THE BARE EARTH.
4. TOPSOIL STOCKPILES SHALL BE NO HIGHER THAN THIRTY-FIVE (35) FEET AND SLOPES WILL BE 3:1 OR FLATTER. STOCKPILE MATERIALS SHALL BE STABILIZED AGAINST EROSION BE SEEDING AND MULCHING IN ACCORDANCE WITH "THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY" FOR PERMANENT OR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION. STOCKPILE WILL ALSO BE ENCLOSED WITH SILT FENCE OR EQUIVALENT SEDIMENT BARRIER.

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

SOIL EROSION AND SEDIMENT CONTROL NOTES

Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

Designed by: NW	Date: 09-30-21
Dwn by: KJF	Ckd by:
Worley Project No. 418008-00160	Rev.
Reviewed by: NW	Drawing code:
Submitted by: WORLEY GROUP INC.	Drawing Scale:
	Plot scale: 1:1(D SHEET)

SEAL

Sheet Reference No.
C-116
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CONSTRUCTION MAINTENANCE NOTES

CONTRACTOR SHALL ADHERE TO THE "THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY" OF THE NEW JERSEY DEPARTMENT OF AGRICULTURE - STATE SOIL CONSERVATION COMMITTEE.

1. SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUN-OFF AND/OR SEDIMENT DISPLACEMENT.
2. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH STORM EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY.
3. SEEDED AREAS THAT HAVE WASHED AWAY SHALL BE FILLED AND GRADED AS NECESSARY AND THEN RESEEDED. A BURLAP OR STRAW COVER WILL BE APPLIED TO RETAIN THE SEED UNTIL IT HAS A CHANCE TO ROOT PROPERLY. THE ABOVE PROCEDURE SHALL BE REPEATED AFTER EACH STORM UNTIL NO MORE SIGNS OF EROSION ARE EVIDENT. AT MONTHLY INTERVALS THEREAFTER, INSPECTIONS AND NECESSARY CLEANING WILL BE DONE.
4. VEGETATION SHALL BE MOWED WHENEVER NECESSARY TO MAINTAIN A PLEASING APPEARANCE AND DISCOURAGE WEED GROWTH. ALL LOCAL REGULATION WILL BE COMPLIED WITH.
5. SILT THAT HAS ACCUMULATED SHALL BE REMOVED, ALLOWED TO DRY, AND THEN BE USED AS FILL WHEREVER REQUIRED ON THE SITE.
6. TRASH THAT IS REMOVED FROM ANY OF THE CONTROL DEVICES SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL AREA.
7. APPLICANT SHALL REMOVE ACCUMULATED SEDIMENT WHEN EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL FACILITIES WHEN CAPACITY HAS BEEN REDUCED BY A MAXIMUM OF 50%.
8. WHEN SILT FENCE HAS BEEN TOPPED OR UNDERMINED, IT SHALL BE REPLACED WITH STONE FILTER OUTLETS IMMEDIATELY.

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION:
   A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
   B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
   C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC).
2. SEEDBED PREPARATION:
   A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.
   B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
   C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.
   D. SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL.
3. SEEDING:
   A. SELECT SEED FROM RECOMMENDATIONS IN TABLE 7-2, ZONE 7B.
   B. CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.
   C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4 MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC
   D. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.
4. MULCHING:
   MULCHING IS REQUIRED ON ALL SEEDING. PERFORM TEMPORARY SEEDING MULCHING IN ACCORDANCE WITH "THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY", STANDARD 7-1 FOR TEMPORARY VEGETIVE COVER FOR SOIL STABILIZATION.

TABLE 7-2
TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTH

SEED SELECTIONS	SEEDING RATE [1] (POUNDS)		OPTIMUM SEEDING DATE [2] BASED ON PLANT HARDINESS ZONE [3]			OPTIMUM SEED DEPTH [4] (INCHES)
	PER ACRE	PER 1000 Sq Ft	ZONE 5b,6s	ZONE 6b	ZONE 7a,b	
COOL SEASON GRASSES						
1. PERENNIAL RYEGRASS	100	1.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	0.5
2. SPRING OATS	86	2.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	1.0
3. WINTER BARLEY	96	2.2	8/1-9/15	8/15-10/1	8/15-10/15	1.0
4. ANNUAL RYEGRASS	100	1.0	3/15-6/1 8/1-9/15	3/1-6/1 8/1-9/15	2/15-5/1 8/15-10/15	0.5
5. WINTER CEREAL RYE	112	2.8	8/1-11/1	8/1-11/15	8/1-12/15	1.0
WARM SEASON GRASSES						
6. PEARL MILLET	20	0.5	6/1-8/1	5/15-8/15	5/1-9/1	1.0
7. MILLET (GERMAN OR HUNGARIAN)	30	0.7	6/1-8/1	5/15-8/15	5/1-9/1	1.0

1. SEEDING RATE FOR WARM SEASON GRASS, SELECTIONS 5-7 SHALL BE ADJUSTED TO REFLECT THE AMOUNT OF PURE LINE SEED (PLS) AS DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.
2. MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRRIGATED.
3. PLANT HARDINESS ZONE (SEE FIGURE 7-1), ZONE 7b (10-5).
4. TWICE THE DEPTH FOR SANDY SOILS.

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

Mark | Description | Date | Appr

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

SOIL EROSION AND SEDIMENT CONTROL NOTES

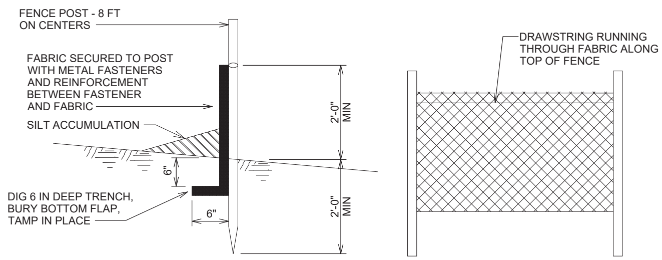
Designed by: NW | Date: 09-30-21 | Rev.
Dwn by: KJF | Ckd by: | Worley Project No. 418008-00160
Reviewed by: NW | Drawing code:
Submitted by: WORLEY GROUP INC. | Drawing Scale: | Plot scale: 1:1(D SHEET)

Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

SEAL

Sheet Reference No.
C-117

File: \\usreawpf003\Projects\1162001\1162001\c-117 ; Plotted: 10/5/2021 3:57 PM by FRITZ, KERRY J. (READING) ; Saved: 9/29/2021 10:24 AM by KERRY.FRITZ

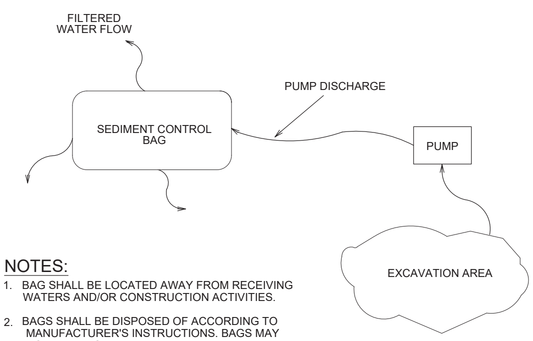


NOTES:

1. SILT FENCE INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARD FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
2. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1 ".
3. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS, ETC) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP OF THE FENCE FOR ADDED STRENGTH.
4. EXCAVATE A TRENCH A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE ON THE UP SLOPE SIDE OF THE FENCE LOCATION. BACKFILL THE TRENCH WITH TAMPED SOIL OR AGGREGATE OVER THE GEOTEXTILE.
5. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN ACCUMULATIONS REACH THE ABOVE GROUND HEIGHT OF THE SILT FENCE.
6. INSPECT THE SILT FENCE DAILY AND AFTER EACH RAIN EVENT FOR SIGNS OF DETERIORATION OR SEDIMENT ACCUMULATION.
7. REPLACE OR REPAIR THE FENCE IMMEDIATELY (NO LATER THAN 24 HOURS) AFTER OBSERVED FAILURE. FAILURE IS DEFINED AS THE FOLLOWING:
   A. THE FENCE HAS BEEN OVERTOPPED, UNDERCUT OR BYPASSED BY RUNOFF WATER
   B. THE FENCE HAS BEEN MOVED OUT OF POSITION (KNOCKED OVER)
   C. THE GEOTEXTILE HAS DECOMPOSED OR IS DAMAGED
8. ADHERE TO THE MANUFACTURER'S RECOMMENDATIONS RELATIVE TO REQUIRED GEOTEXTILE REPLACEMENT DUE TO WEATHERING.

SILT FENCE DETAIL

NOT TO SCALE

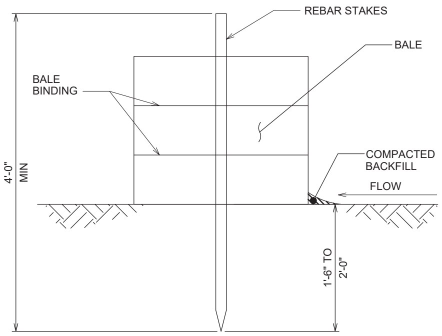


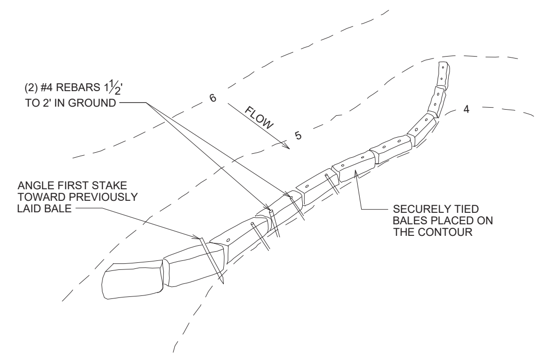
NOTES:

1. BAG SHALL BE LOCATED AWAY FROM RECEIVING WATERS AND/OR CONSTRUCTION ACTIVITIES.
2. BAGS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. BAGS MAY NOT BE REUSED.

SEDIMENT CONTROL BAG DETAIL

NOT TO SCALE





NOTES:

1. USE BALE BARRIERS IN LIEU OF SILT FENCE IN AREAS OF ASPHALT SURFACING.
2. ALL BALES SHALL BE SECURELY TIED AND STAKED ON THE CONTOUR.
3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
4. BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO #4 REBARS DRIVEN THROUGH EACH BALE. THE FIRST REBAR IN EACH BALE SHALL BE DRIVEN TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
5. SEDIMENT SHALL BE REMOVED FROM THE UPSTREAM FACE OF THE BALE WHEN IT HAS REACHED A DEPTH OF $\frac{1}{2}$ THE BARRIER HEIGHT.
6. REPAIR OR REPLACE BARRIER (BALES, REBAR) WHEN DAMAGED.
7. BARRIERS SHALL BE INSPECTED DAILY FOR SIGNS OF DETERIORATION AND SEDIMENT REMOVAL.

BALE SEDIMENT BARRIER DETAIL

NOT TO SCALE

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

SOIL EROSION AND SEDIMENT CONTROL DETAILS

Designed by: NW | Date: 09-30-21 | Rev:
Drn by: KJF | Chd by: | Worley Project No: 418008-00160
Reviewed by: NW | Drawing code:
Submitted by: WORLEY GROUP INC. | Drawing Scale: | Plot scale: 1:1(D SHEET)

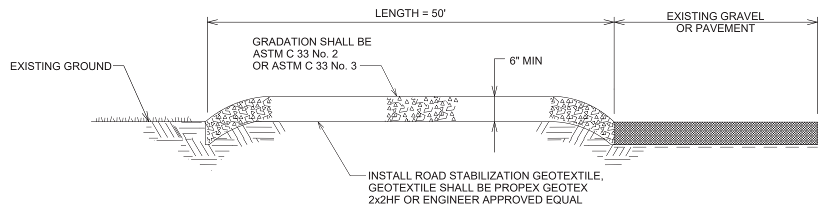
Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

SEAL

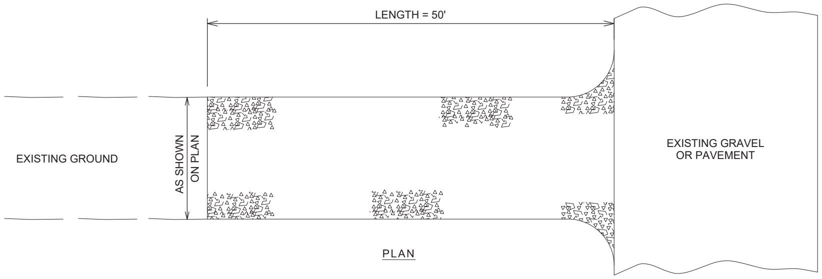
Sheet Reference No.
C-118
INDEX: 21 OF 88

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

File: \\usreawpfl003\Projects\116\20011\62001\c-118 ; Plotted: 10/5/2021 3:59 PM by FRITZ, KERRY J. (READING) ; Saved: 9/29/2021 10:24 AM by KERRY FRITZ



PROFILE



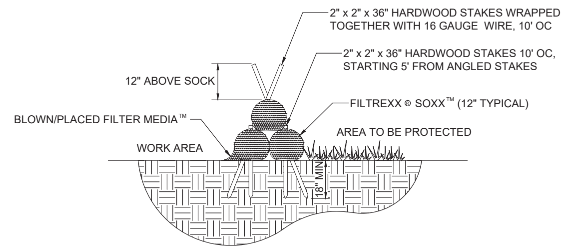
PLAN

NOTES:

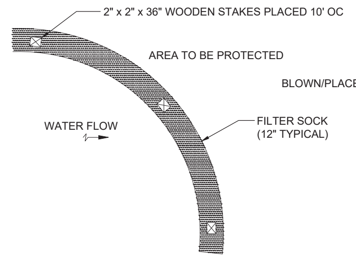
1. STABILIZED CONSTRUCTION ENTRANCE INSTALLATION, MATERIALS, AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
2. MAINTAIN THE SPECIFIED THICKNESS OF ALL STABILIZED CONSTRUCTION ENTRANCE POINTS BY ADDITION OF CRUSHED STONE.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED ROADWAYS (PUBLIC OR PRIVATE) OR OTHER IMPERVIOUS SURFACES SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR UPON DISCOVERY.
5. IF THE ENTRANCE IS UNABLE TO PREVENT THE MAJORITY OF SEDIMENTS FROM BEING TRACKED OFF SITE, THE ENTRANCE SHALL EITHER BE EXTENDED OR A WASHING RACK INSTALLED.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

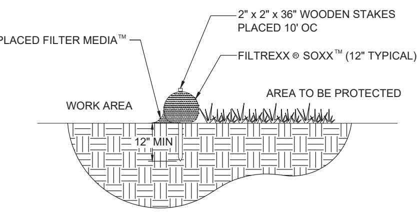
NOT TO SCALE



STACKED FILTER SOCK DETAIL



PLAN



SECTION

NOTE:

FILTER SOCKS MAY BE USED TO ADDRESS THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY (THE STANDARD) FOR SEDIMENT BARRIERS IN ACCORDANCE WITH THE REQUIREMENTS FOR BALE BARRIERS. PRODUCTS MUST COMPLY WITH THE DESIGN REQUIREMENTS IN SECTION A (GENERAL REQUIREMENTS) AND SECTION B (BALE BARRIER) ON PAGE 23-1 TO 23-4 OF THE STANDARD. THIS INCLUDES SLOPE AND DRAINAGE AREA LIMITATIONS, INSTALLATION REQUIREMENTS, MAINTENANCE ETC. IN ADDITION TO THESE REQUIREMENTS, FILTER TUBE OR SOCK PRODUCTS MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

FILTER SOCK DETAIL

NO SCALE

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

SOIL EROSION AND SEDIMENT CONTROL DETAILS

Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

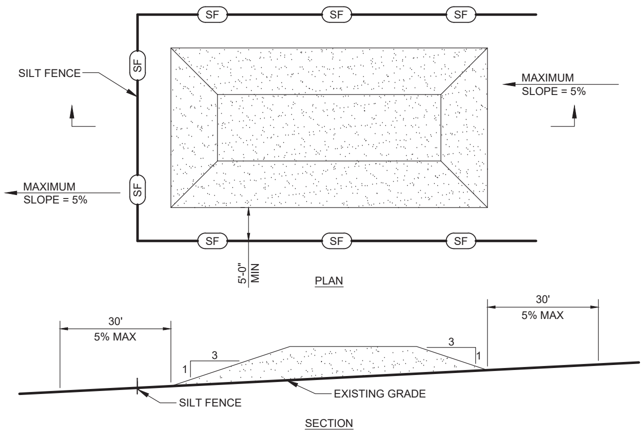
Designed by: NW	Date: 09-30-21
Dwn by: KJF	Worley Project No. 418008-00160
Reviewed by: NW	Drawing code:
Submitted by: WORLEY GROUP INC.	Drawing Scale: 1:1(D SHEET)

SEAL

Sheet Reference No.
C-119
INDEX: 22 OF 88

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

File: \\usreawpf003\Projects\116200\116200\c-119 - Plotted: 10/5/2021 4:00 PM by FRITZ, KERRY J. (READING) ; Saved: 9/29/2021 10:24 AM by KERRY.FRITZ

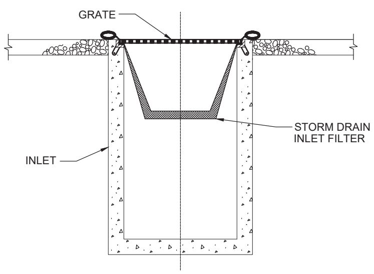


NOTES:

1. PLACE STOCKPILE AT LOCATION SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. ALL SIDE SLOPES SHALL BE 3 TO 1 OR FLATTER.
3. STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQUIREMENTS.
4. SILT FENCE FILTER SHALL BE INSTALLED AS DETAILED HEREON.

TOPSOIL STOCKPILE DETAIL

NOT TO SCALE

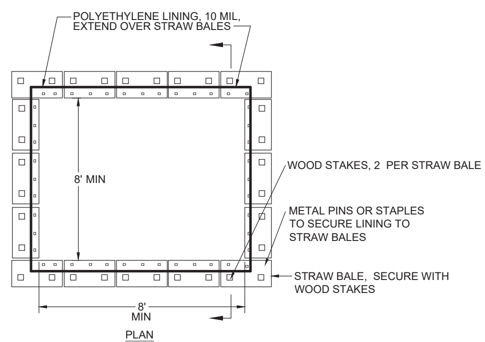


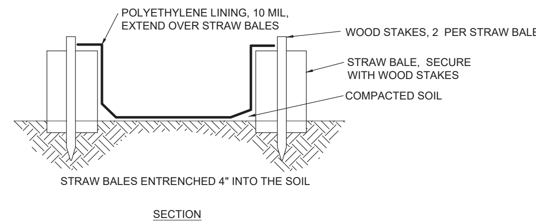
NOTES:

1. SUBMIT STORM DRAIN INLET PROTECTION FOR ENGINEER APPROVAL.
2. THE INLET FILTER MATERIALS AND INSTALLATION SHALL BE PER THE MANUFACTURER'S REQUIREMENTS.
3. THE INLET FILTER SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. WHEN THE FILTER HAS COLLECTED ABOUT 6 INCHES OF SEDIMENT IT SHALL BE REPLACED. THE UNIT SHALL BE REPLACED IF FREE OIL CAN BE SEEN FLOATING AND IS NOT BEING ABSORBED.
4. THE INLET FILTER SHALL BE REMOVED WHEN THE DRAINAGE AREA TO IT IS STABILIZED.

STORM DRAIN INLET PROTECTION

NOT TO SCALE





NOTES:

1. CONCRETE WASHOUT SYSTEM WILL CONTAIN WASHOUT WATER WHEN CHUTES & HOPPERS ARE RINSED FOLLOWING CONCRETE DELIVERY TO THE CONSTRUCTION SITE.
2. SCRAPE AS MUCH MATERIAL FROM CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
3. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE, IT SHOULD BE RESTRICTED TO PLANT.
4. DO NOT USE ADDITIVES WITH WASH WATER. DO NOT USE ACID OR SOLVENTS.
5. FURNISH SIGNAGE FOR THE CONCRETE WASHOUT AREA.
6. FURNISH ORANGE SAFETY FENCING OR EQUAL.

CONCRETE WASHOUT DETAIL

NOT TO SCALE

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

SOIL EROSION AND SEDIMENT CONTROL DETAILS

Designed by: NW	Date: 09-30-21
Dwn by: KJF	Ckd by:
Rev.	Worley Project No. 418008-00160
Reviewed by: NW	Drawing code:
Submitted by: WORLEY GROUP INC.	Drawing Scale: Plot scale: 1:1(D SHEET)

Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

SEAL

Sheet Reference No.
C-120
INDEX: 23 OF 88

File: \\usreawpfil03\Projects\1162000\1162001\c-120 ; Plotted: 10/5/2021 4:02 PM by FRITZ, KERRY J. (READING) ; Saved: 9/29/2021 3:30 PM by KERRY.FRITZ

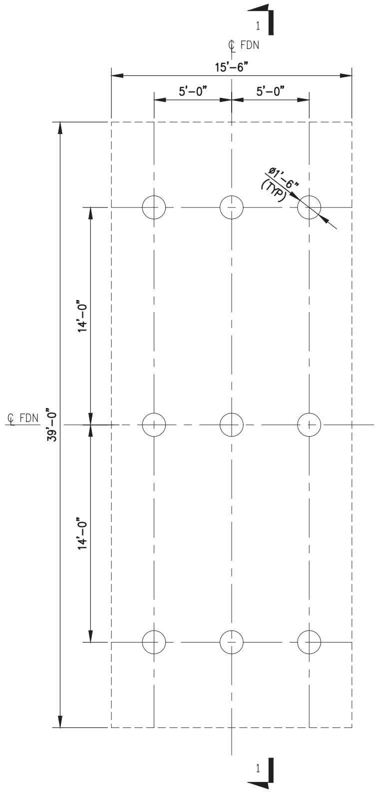
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

NOTES:

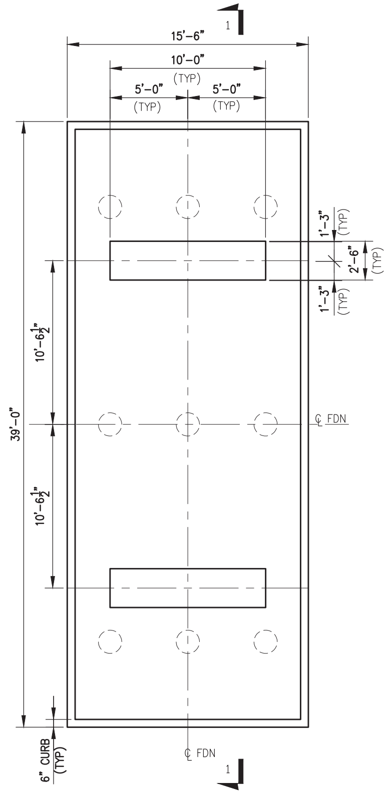
1. FOR GENERAL NOTES, SEE DRAWING S-050.
2. FOR PILE INSTALLATION NOTES SEE DRAWING S-001 AND S-101.
3. PILE SCHEDULE:
   18" DIA X 1/2" STEEL PIPE PILE
   ASTM A252 (50 KSI)
   PILE CUTOFF ELEV (NAVD88): +5'-4"
   ESTIMATED PILE LENGTH: 35 FT
   PILE CAPACITY: 40 TONS COMPRESSION.
4. FOR FOUNDATION LOCATION AND ORIENTATION SEE DRAWING GA-001.

LEGENDS:

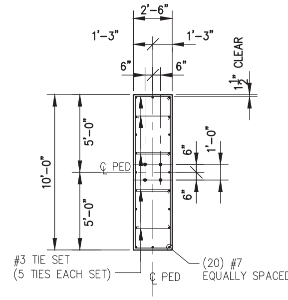
TOC TOP OF CONCRETE
FDN FOUNDATION
PED PEDESTAL



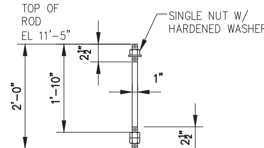
PILE LOCATION PLAN
(SCALE 1/4" = 1'-0")



PLAN-FOUNDATION
(SCALE 1/4" = 1'-0")



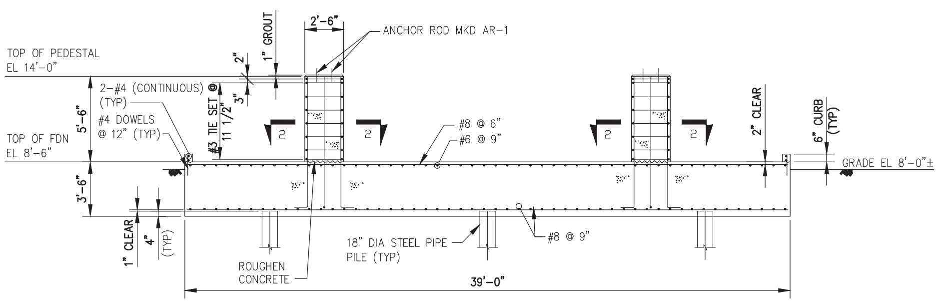
SECTION 2-2
(SCALE 1/4" = 1'-0")



MATERIAL (ALL ASSEMBLIES GALVANIZED):

ROD - ASTM F1554 GRADE 36
NUT - ASTM A563 GRADE DH HEAVY HEX
WASHER - ASTM F436

ANCHOR ROD DETAIL MKD AR-1
(8 ASSEMBLIES REQUIRED)
SCALE: NONE



SECTION 1-1
(SCALE 1/4" = 1'-0")

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ISSUED: 2021-10-08
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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

FOUNDATION PLAN
FUEL TANK

Designed by: RWM	Date: 09-30-21
Dwn by: SBS	Chd by: RWM
M&N Project No. 418008-00160	Rev:
Reviewed by: RWM	Drawing code: -
Submitted by: WORLEY GROUP INC.	Drawing Scale: 1:1 (D SHEET)

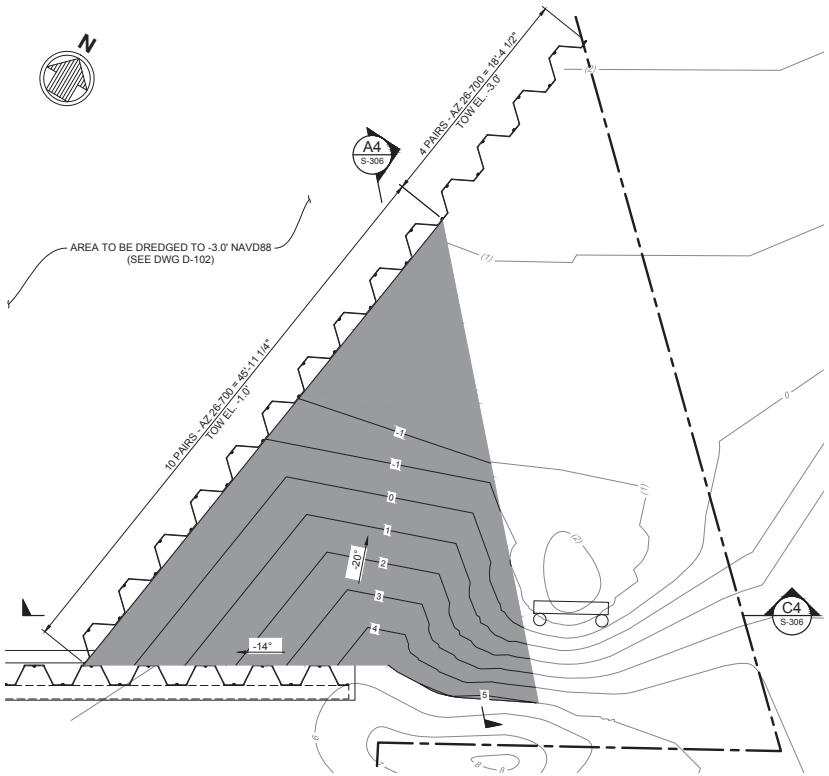
Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

Worley
oneWay

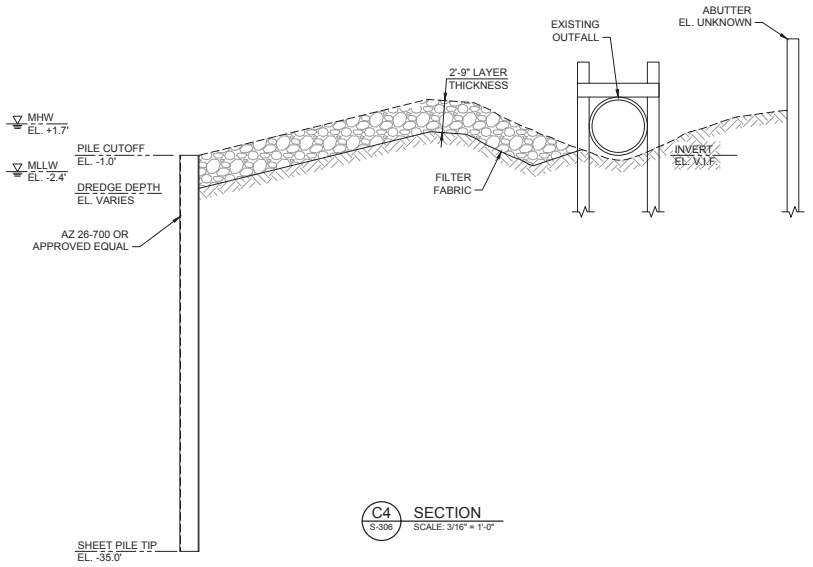
SEAL

Sheet
Reference No.
S-155
INDEX: 34 OF 88

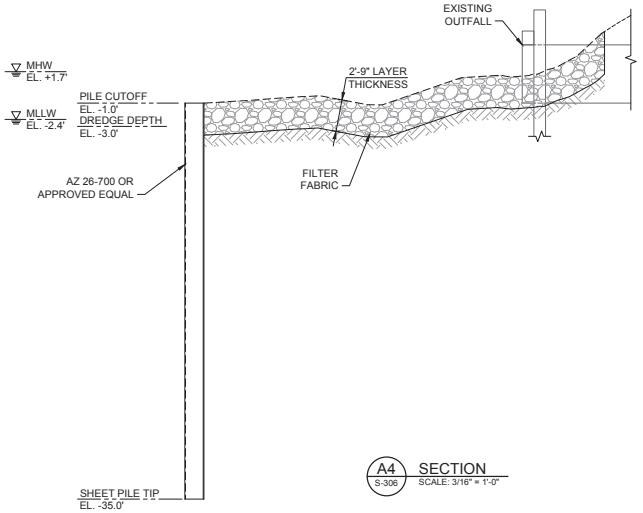
File: \\usreawpfil003\Projects\116200\116200790 percent\S155-001 ; Plotted: 10/5/2021 4:56 PM by FRITZ, KERRY J. (READING); Saved: 10/5/2021 4:37 PM by DENNIS RIVERA



B1 S-306 TOEWALL AND REVETMENT PLAN
SCALE: 1" = 5'



C4 S-306 SECTION
SCALE: 3/16" = 1'-0"



A4 S-306 SECTION
SCALE: 3/16" = 1'-0"

NOTES:

1. REVETMENT STONE SHALL BE ROUGH ANGULAR, AND GRADED RIP RAP.
2. CONTRACTOR SHALL PROTECT IN PLACE EXISTING OUTFALL INFRASTRUCTURE.
3. STONE PROPERTIES:
   a. Y_r = 160 PCF
   b. W_50 MIN = 403 LBS
   c. W_100 MAX = 1610 LBS

8' 0'-0" 4' 8'
SCALE: 3/16"=1'-0"

5' 0'-0" 5' 10'
SCALE: 1"=5'

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

ØRSTED ATLANTIC CITY O&M MARINE TERMINAL

TOEWALL AND REVETMENT PLAN AND SECTIONS

Designed by: DSGN
Drawn by: DRFT
Date: 10-28-2021
Checked by: CHKR
Reviewed by: REVR
Submitted by: KOPPA TT & NHCHEA
MBA Project No: 210176
Drawing code:
Drawing Scale:
Full scale: 11 X 17 (B SHEET)
Rev: -

150 WELLS AVENUE, SUITE 302
NEWTON, MA 02459
617-2991330

SEAL

Sheet Reference No.
S-306
INDEX: 44 OF 88

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

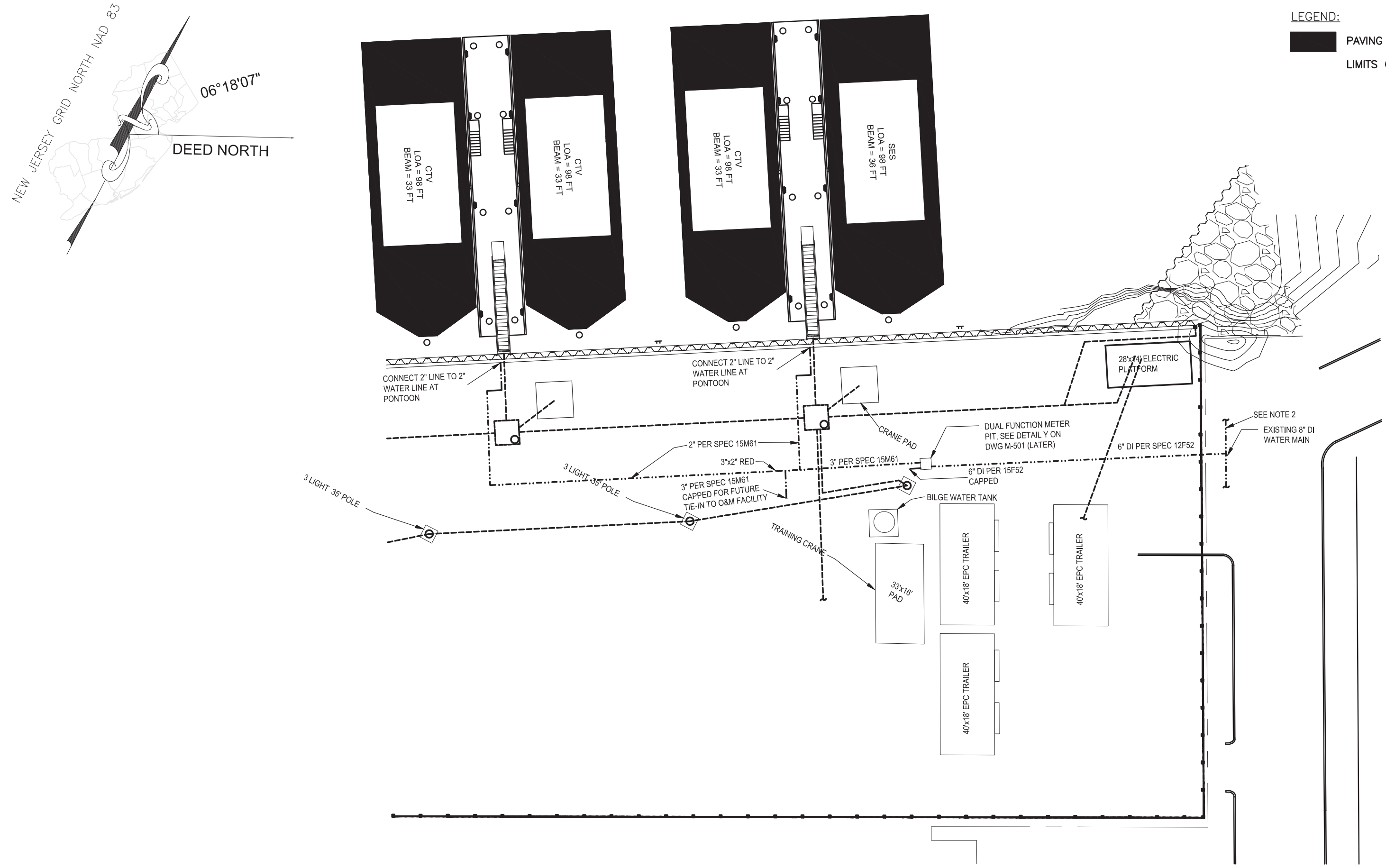
NOTE:

1. ALL ELEVATIONS ARE IN FEET RELATIVE TO NAVD88.
2. USE TAPPING SLEEVE PER ACMUA 2020 RULES, RATES, AND REGULATIONS.

LEGEND:

PAVING

LIMITS OF WORK



NEW JERSEY GRID NORTH NAD 83
06°18'07"
DEED NORTH
CTV LOA = 98 FT BEAM = 33 FT
CTV LOA = 98 FT BEAM = 33 FT
CTV LOA = 98 FT BEAM = 33 FT
SES LOA = 98 FT BEAM = 36 FT
CONNECT 2" LINE TO 2" WATER LINE AT PONTOON
CONNECT 2" LINE TO 2" WATER LINE AT PONTOON
28'x14' ELECTRIC PLATFORM
SEE NOTE 2
EXISTING 8" DI WATER MAIN
DUAL FUNCTION METER PIT, SEE DETAIL Y ON DWG M-501 (LATER)
CRANE PAD
6" DI PER SPEC 12F52
2" PER SPEC 15M61
3"x2" RED
3" PER SPEC 15M61
6" DI PER 15F52 CAPPED
3" PER SPEC 15M61 CAPPED FOR FUTURE TIE-IN TO O&M FACILITY
3 LIGHT 35' POLE
3 LIGHT 35' POLE
BILGE WATER TANK
TRAINING CRANE
33'x16' PAD
40'x18' EPC TRAILER
40'x18' EPC TRAILER
40'x18' EPC TRAILER

40' 0'-0" 40' 80'

SCALE: 2 1/16"=40'

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

POTABLE WATER PIPING PLAN

Designed by: RWM	Date: 09-30-21
Dwn by: SBS	Ckd by: RWM
M&N Project No.	418008-00160
Reviewed by: RWM	Drawing code:
Submitted by: WORLEY GROUP INC.	Drawing Scale:
Plot scale:	1:1 (D SHEET)
Rev.	

Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

SEAL

Sheet Reference No.
M-111
INDEX: 83 OF 88

File: \\usreawpfil03\Projects\1162000\1162002\M-111; Plotted: 10/5/2021 3:43 PM by HARPER, LOGAN (CHARLESTON, WV); Saved: 9/30/2021 2:57 PM by LOGAN.HARPER

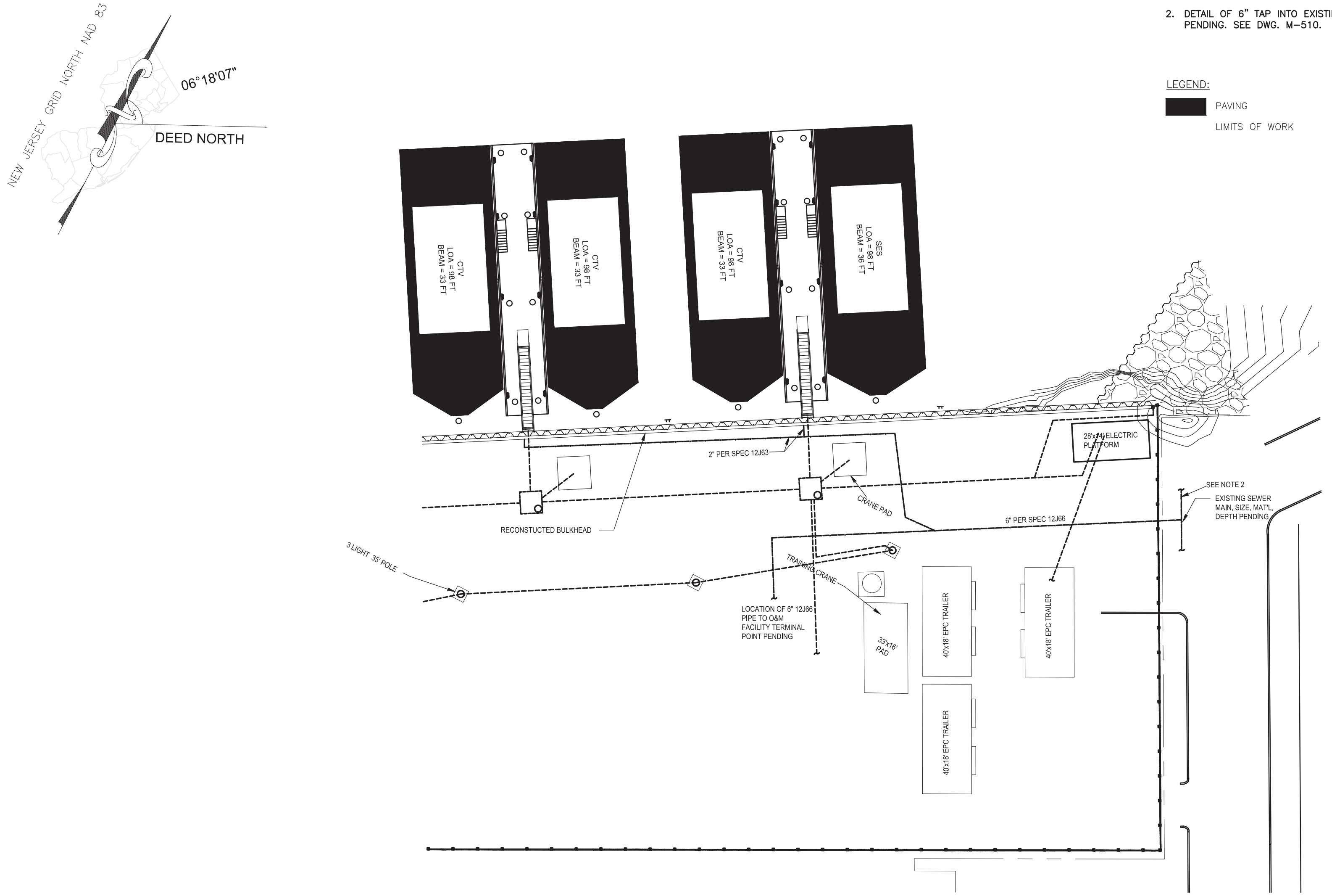
NOTE:

1. ALL ELEVATIONS ARE IN FEET RELATIVE TO NAVD88.
2. DETAIL OF 6" TAP INTO EXISTING SEWER MAIN PENDING. SEE DWG. M-510.

LEGEND:

PAVING

LIMITS OF WORK



40' 0'-0" 40' 80'

SCALE: 2 1/8"=40'

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

SEWER PIPING PLAN

Designed by: RWM	Date: 09-30-21
Drw by: SBS	Chk'd by: RWM
MAN Project No. 418008-00160	
Reviewed by: RWM	Drawing code:
Submitted by: WORLEY GROUP INC.	Drawing Scale: 1:1 (D SHEET)

Worley of New Jersey, Inc.
832 Bear Tavern Road
West Trenton, NJ 08628
COA No. 24GA27911900

SEAL

Sheet Reference No.
M-112

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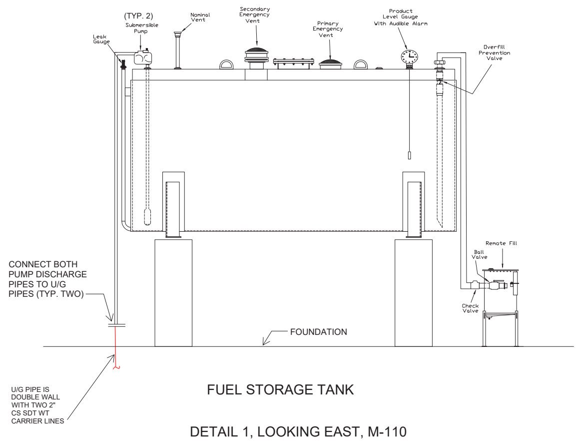

FUEL STORAGE TANK

DETAIL 1, LOOKING EAST, M-110

NOTE:

1. ALL ELEVATIONS ARE IN FEET RELATIVE TO NAVD88.

LEGEND:

PAVING

LIMITS OF WORK

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

Mark	Description	Date	Appr.

ØRSTED ATLANTIC CITY O&M MARINE TERMINAL

FUEL STORAGE TANK
ELEVATION VIEW

moffatt & nichol
180 WELLS AVENUE, SUITE 302
NEWTON, MA 02459
617-299-7330

Designed by: RWM	Date: 09-30-21	Rev. -
Dwn by: SBS	Ckd by: RWM	M&N Project No. 210176
Reviewed by: RWM	Drawing code:	
Submitted by: MOFFATT & NICHOL	Drawing Scale:	Plot scale: 1:1 (D SHEET)

SEAL

Sheet Reference No.
M-501
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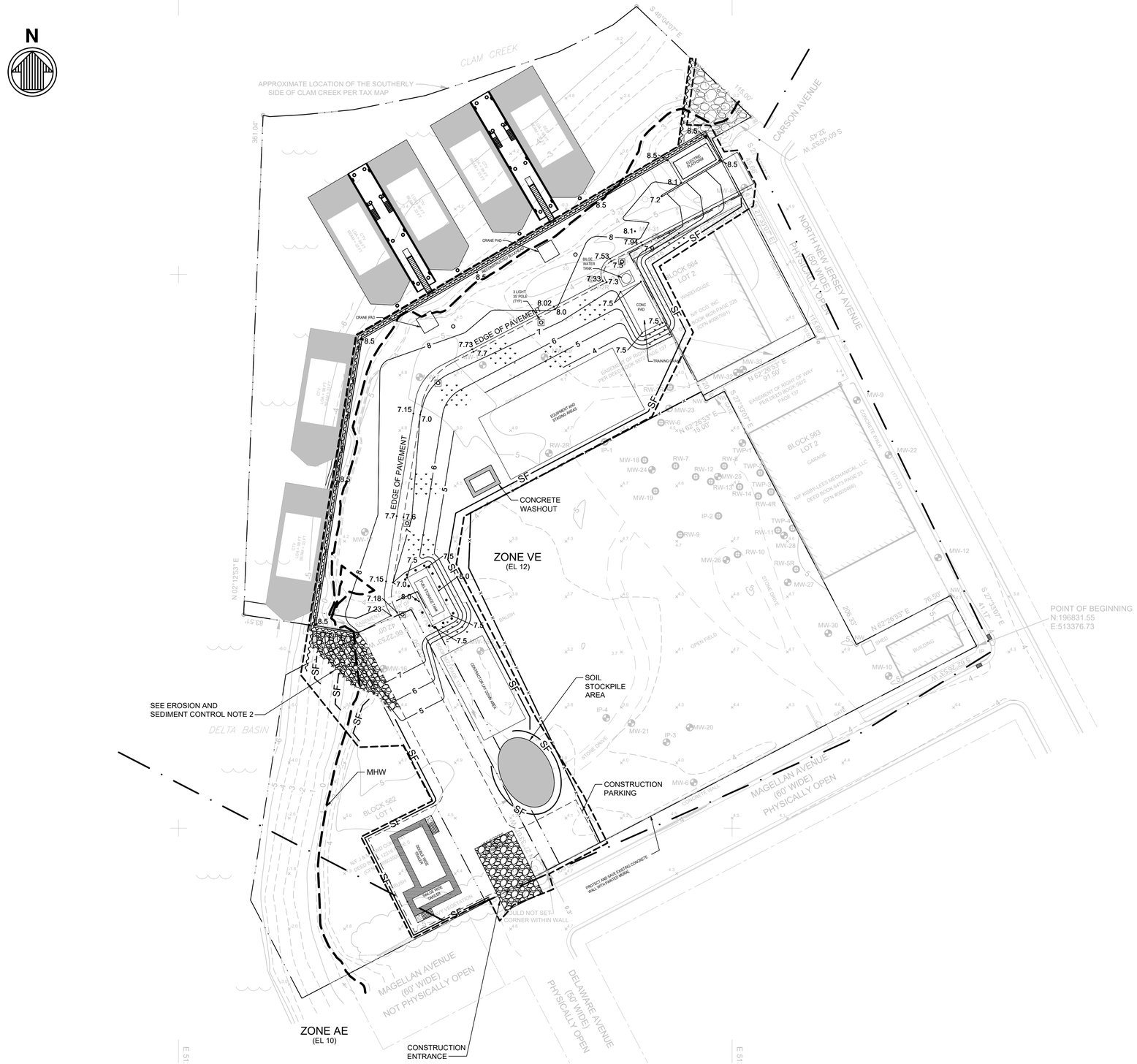
DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

File: \\usreawpfil01\encompass\MPR\MPR\DocProjects\Orsted_OCW01\Mechanical\90 percent submission\M-501 ; Plotted: 10/5/2021 3:29 PM by HARPER, LOGAN (CHARLESTON, WV) ; Saved: 10/4/2021 3:19 PM by LOGAN.HARPER



PLAN
SCALE: 1" = 40'

811 Know what's below. Call before you dig.

GENERAL NOTES:

1. BACKGROUND LAND SURFACE TOPOGRAPHY AND FEATURES ARE FROM A SURVEY BY DENNIS W. SKLAR, INC., DATED 6-24-2020. HORIZONTAL DATUM: NEW JERSEY STATE PLANE COORDINATES NAD 83 2011. VERTICAL DATUM: NAVD 88.

EROSION & SEDIMENT CONTROL NOTES:

1. FILTER SOCK MAY BE SUBSTITUTED FOR SILT FENCE.
2. SLOPE PROTECTION ON THIS AREA WITH GEOTEXTILE FABRIC, PROPEX GEOTEX 861 OR ENGINEER APPROVED EQUAL, UNDER RIPRAP ROCK. USE RIPRAP ROCK THAT CONSISTS OF UNIFORMLY GRADED MIXTURE OF ROCK d50 = 9", dmax = 14", AND THICKNESS = 18". ENSURE THAT THE STONES ARE A WELL-GRADED MIXTURE COMPOSED PRIMARILY OF THE LARGER STONE SIZE, BUT WITH A SUFFICIENT QUANTITY IF OTHER SIZES TO FILL THE PROGRESSIVELY SMALLER VOIDS BETWEEN THE STONES.

LEGEND:

- EXISTING CONTOUR ELEVATION
- EXISTING SPOT ELEVATION
- EXISTING BUILDING
- EXISTING TREE/BRUSH LINE
- EXISTING MONITORING WELL
- EXISTING MONITORING WELL (ABANDONED)
- EXISTING UTILITY POLE
- NEW CONTOUR ELEVATION
- NEW SPOT ELEVATION
- CONSTRUCTION ENTRANCE
- SILT FENCE (SEE E&SC NOTE 1)
- LIMIT OF DISTURBANCE
- TEMPORARY SEEDING
- MEAN HIGH WATER (MHW)

REFERENCES:

C-110	CIVIL SITE PLAN
C-116 - C-117	SOIL EROSION AND SEDIMENT CONTROL NOTES
C-118 - C-120	SOIL EROSION AND SEDIMENT CONTROL DETAILS

SOIL INFORMATION NOTES:

SOIL BOUNDARY INFORMATION IS BASED ON NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY, VERSION 17 DATED JUNE 1, 2020.

PstAt - PSAMMAQUENTS, SULFIDIC SUBSTRATUM, 0 TO 2 PERCENT SLOPES, FREQUENTLY FLOODED (ENCONPASSES ENTIRE SITE). HYDROLOGIC SOIL GROUP (HSG) A/D, HYDRIC SOIL.

40' 0' 40' 80'
SCALE: 1"=40'

90% SUBMITTAL
ISSUED: 2021-10-08
NOT TO BE USED FOR CONSTRUCTION

Mark	Description	Date	Appr

ORSTED ATLANTIC CITY O&M MARINE TERMINAL

SOIL EROSION AND SEDIMENT CONTROL PLAN

Worley of New Jersey, Inc.
632 Parkway, Unit 4
West Deptford, NJ 08628
COA No. 24GA27911900

Worley energy | chemicals | resources

OneWay engineered transit solutions

SEAL

Sheet Reference No.
C-115
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Designed by:	Drawn by:	Reviewed by:	Submitted by:	Date:	Rev.	Project No.	Cad by:	Drawing code:	Drawing Scale:	Plot scale:
NW	KJF	NW	NW	09-30-21		418008-00160			1" = 40'	1:1(D SHEET)

WORLEY GROUP INC.

File: M:\116\20001\162001\c-115 ; Plotted: 10/26/2021 1:00 PM by STOUDT, ROBERT E. (READING) ; Saved: 10/26/2021 12:48 PM by ROBERT.STOUDT

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING