

PERMITTING PLANS
FOR
DUDA CANAL EXPANSION – PHASE 1
IN
SECTION 35, TOWNSHIP 37 SOUTH, RANGE 39 EAST
CITY OF PORT ST. LUCIE, FLORIDA
PREPARED FOR
ARCO/MURRAY



LOCATION MAP N.T.S.

SECTION 35, TOWNSHIP 37 SOUTH, RANGE 39 EAST



VICINITY MAP N.T.S.

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2	CANAL EXPANSION PLAN
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4	STORMWATER POLLUTION PREVENTION PLAN
5	STORMWATER POLLUTION PREVENTION DETAILS
6	SPECIFICATIONS
7	DEWATERING PLAN

DATE ISSUED: 11/19/20

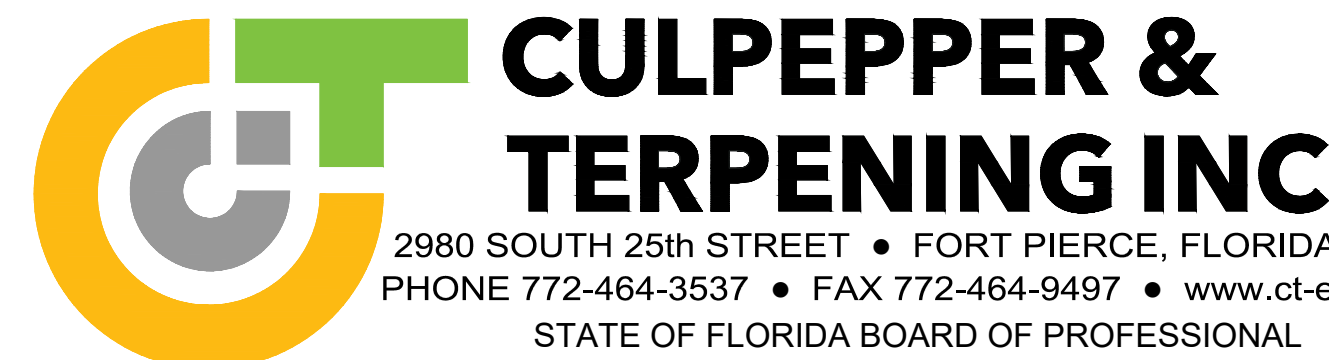
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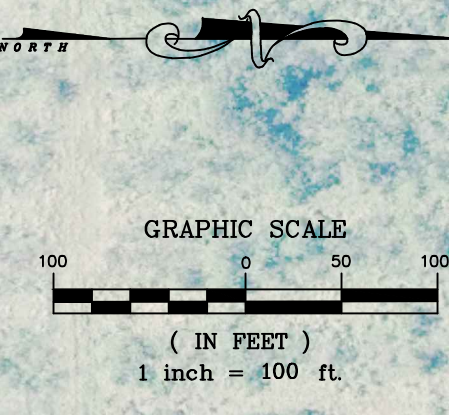
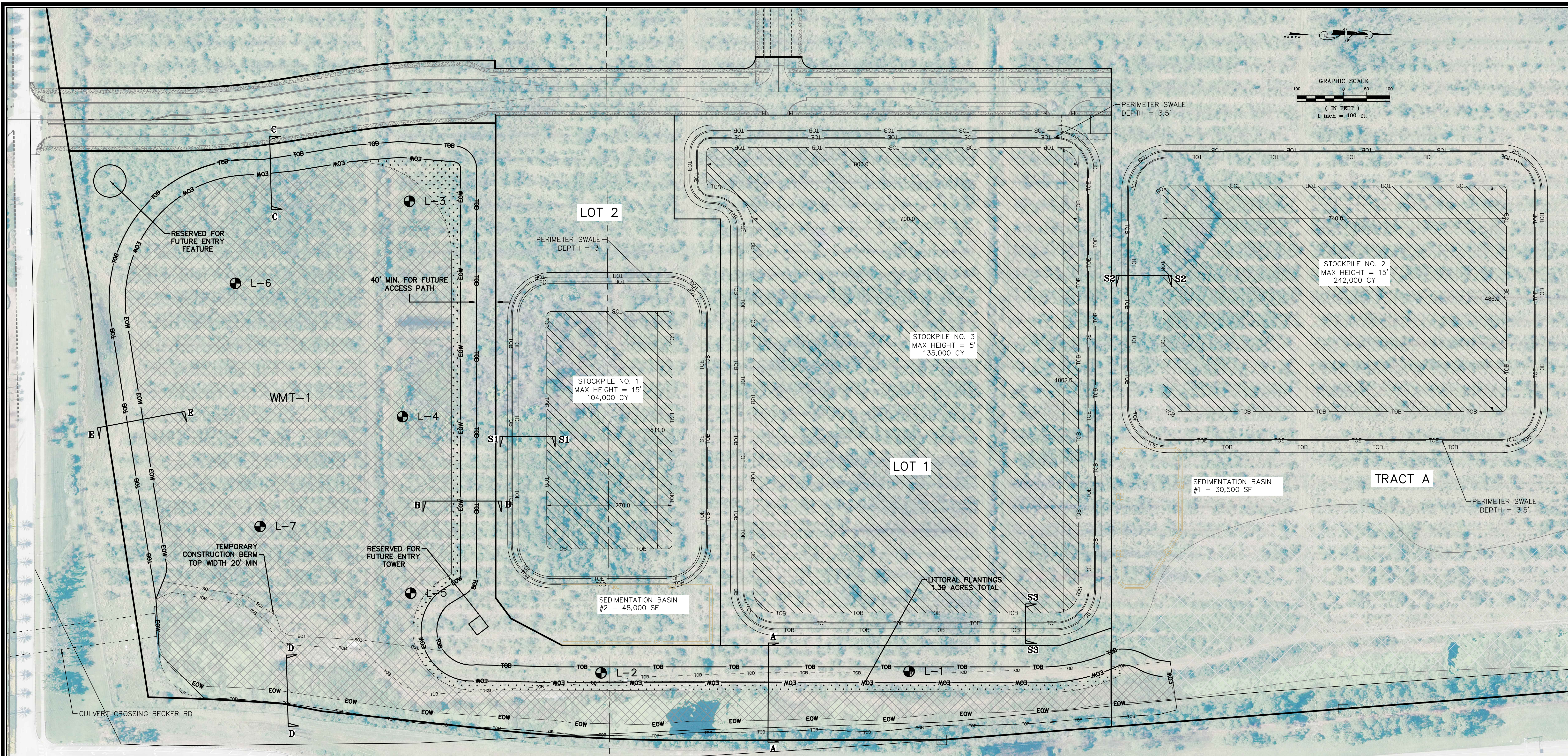
DATUM NOTE:
Elevations shown hereon are referenced to the North American Vertical Datum (N.A.V.D.) of 1988. Site Benchmark is a mag nail & disk LB 4286, having an elevation of 30.37 feet, located at the intersection of Becker Road and Village Parkway.

FILE NAME: 20-127 WAREHOUSE COVER.DWG



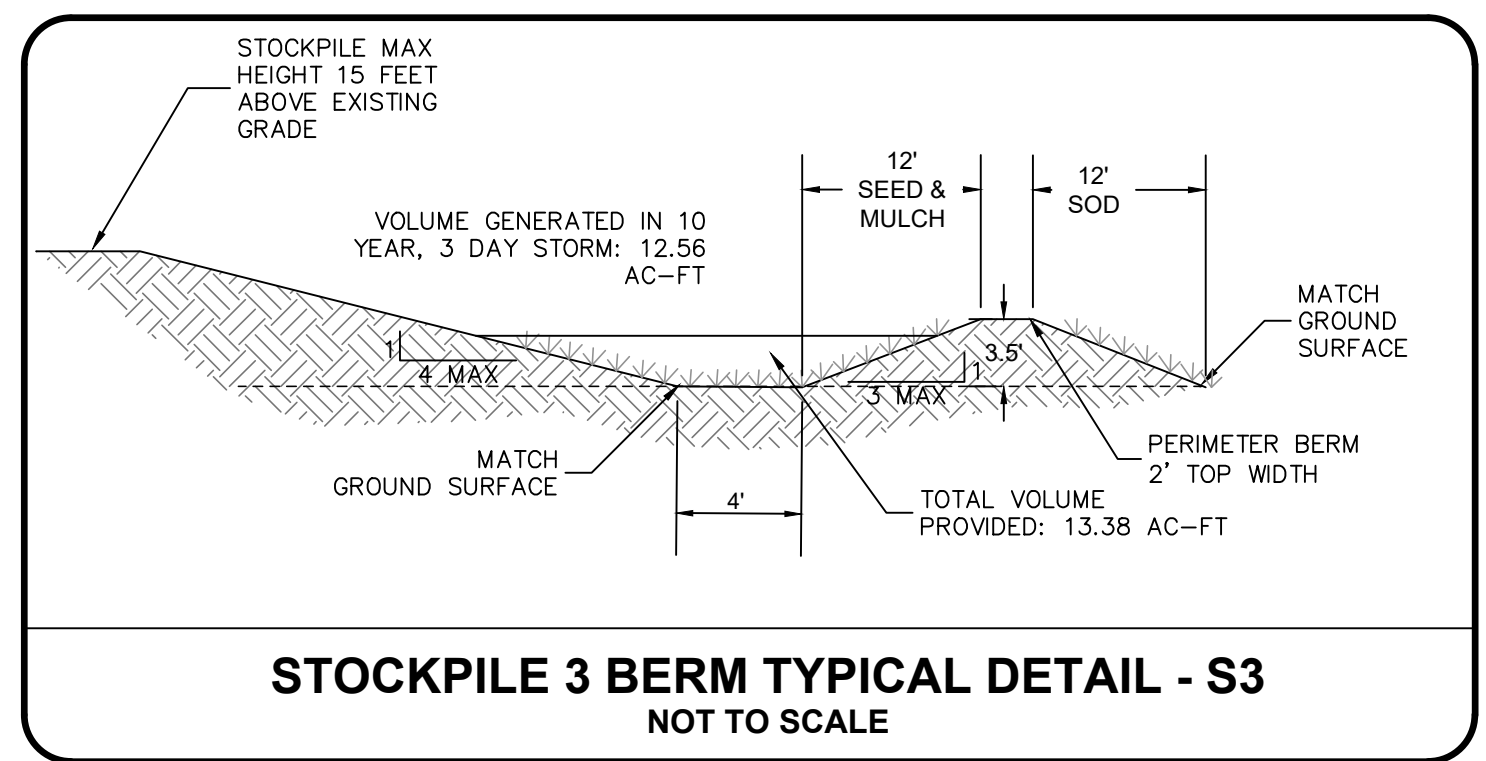
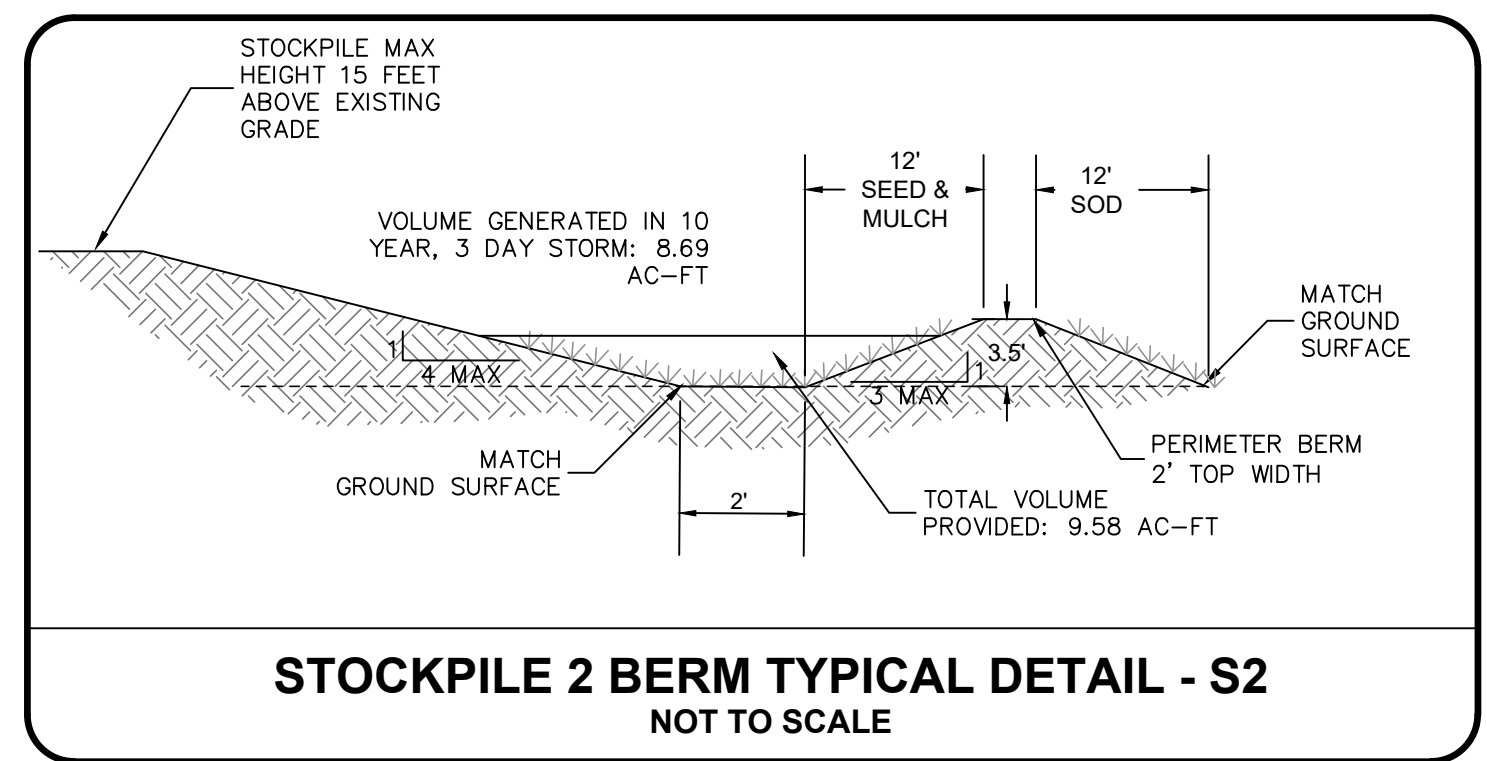
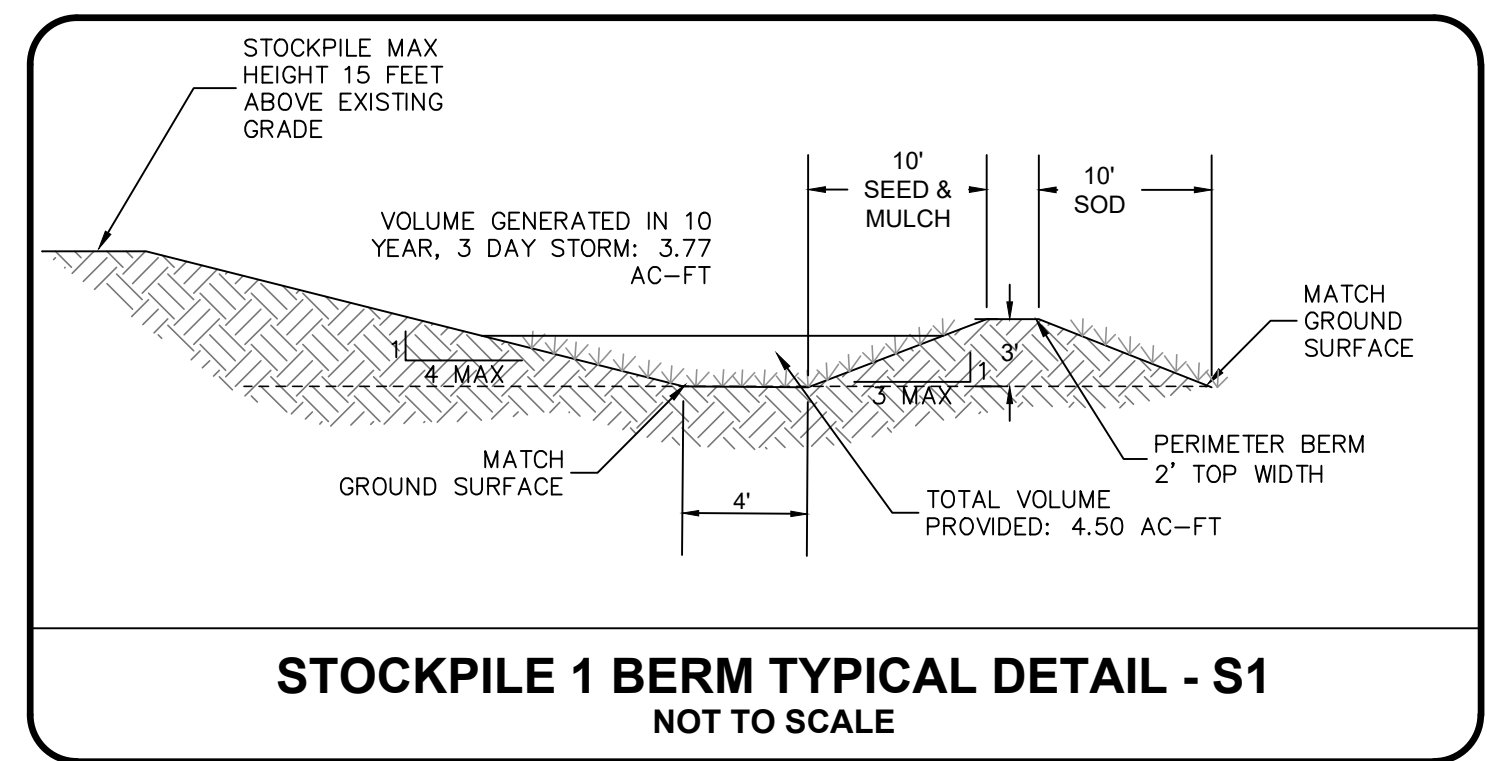
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LEGEND

	PROPOSED LAKE
	FUTURE LAKE
	LITTORAL PLANTINGS
	PROPOSED TOP OF BANK
	EXISTING TOP OF BANK
	PROPOSED EDGE OF WATER
	PROPOSED TOE OF SLOPE
	BORING LOCATION
	DRAINAGE INFRASTRUCTURE
	PROPERTY LINE



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DATUM:
ELEVATIONS SHOWN ON THE PLANS ARE NORTH
AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)

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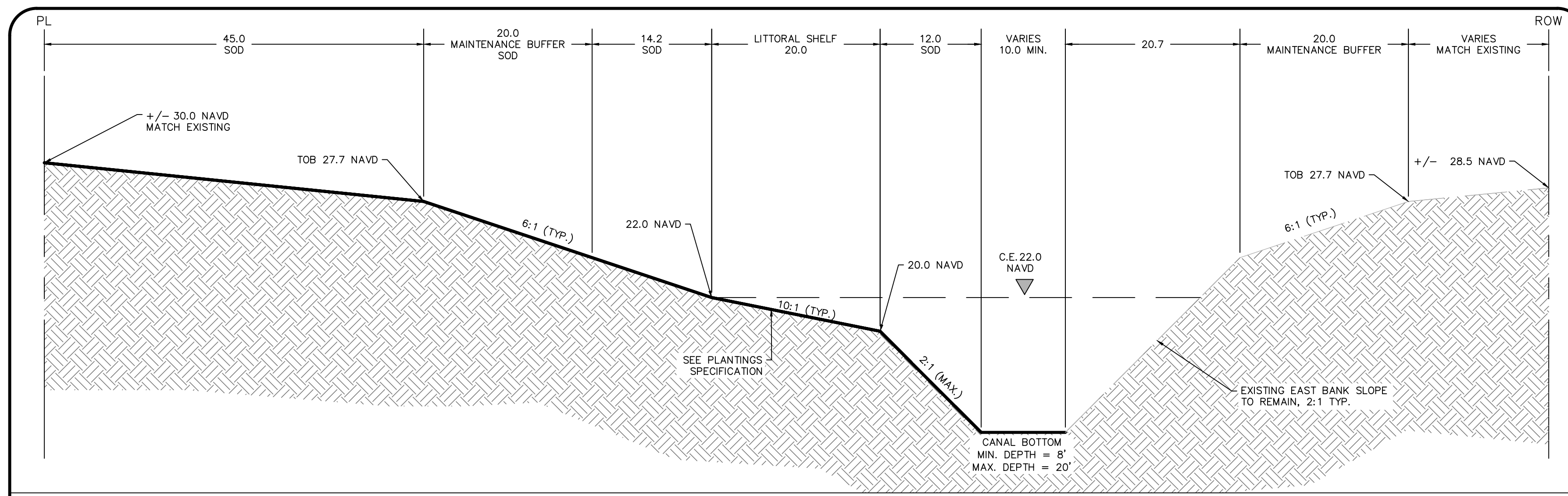
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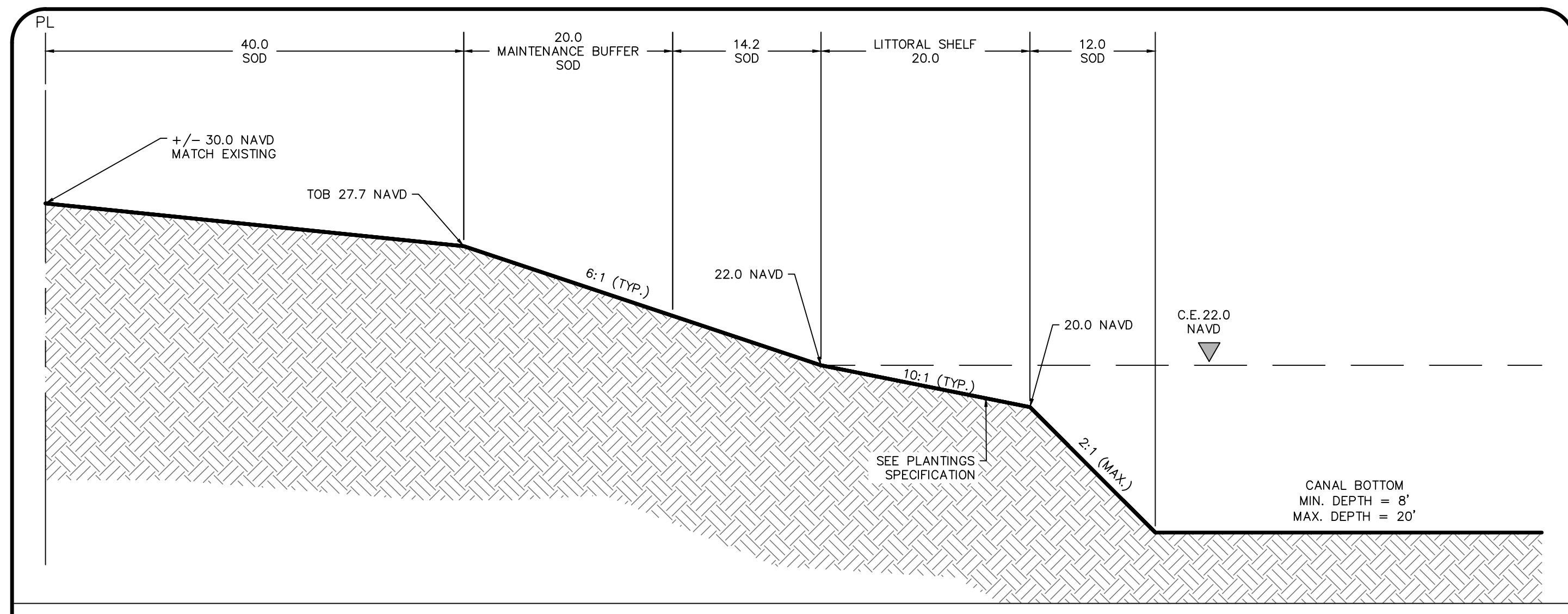
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DUDA CANAL EXPANSION - PHASE 1
CANAL EXPANSION PLAN

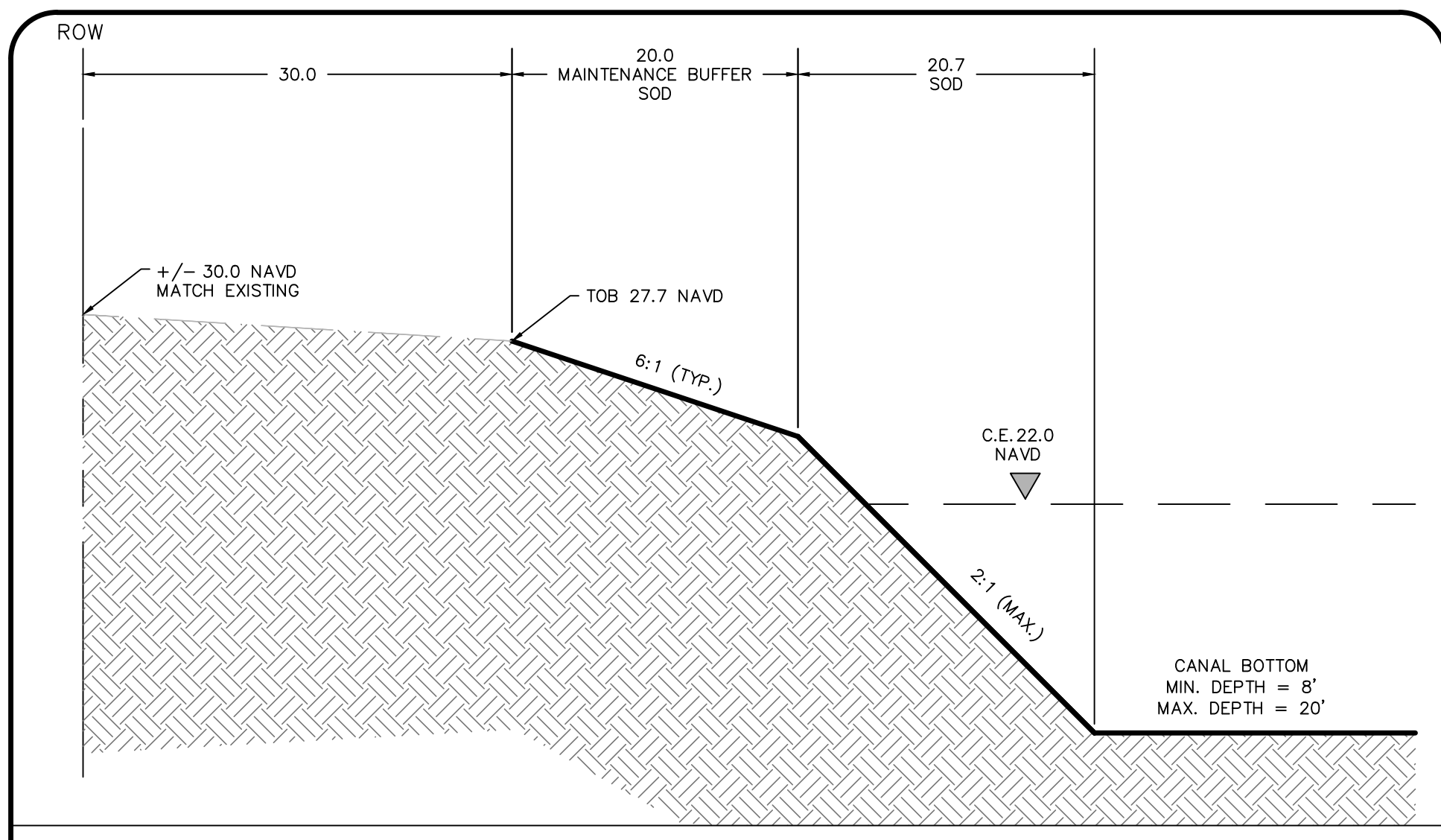
DATE: 10/13/2020
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VERT. SCALE:
JOB No. 20-127
SHEET 2 of 7



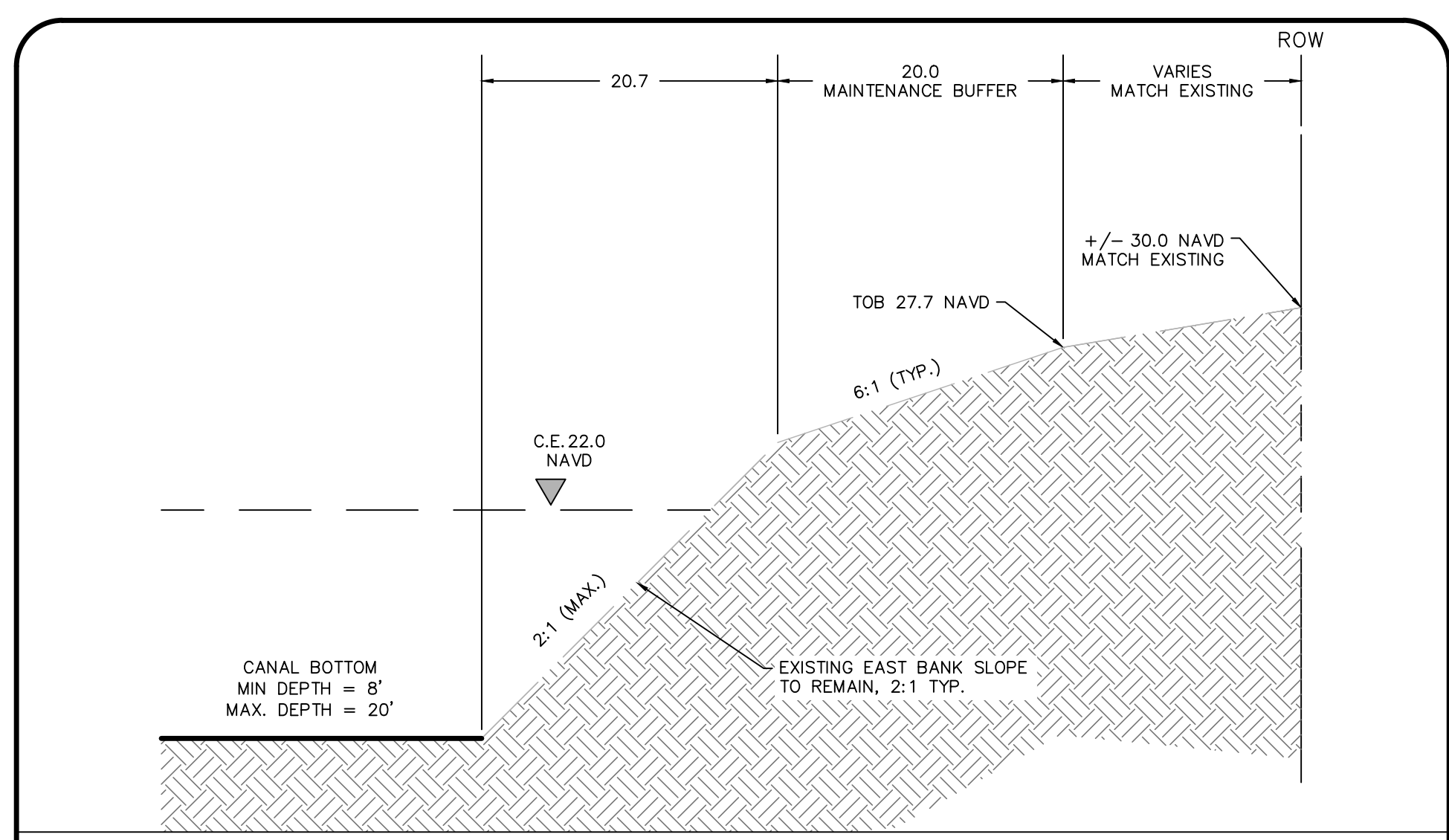
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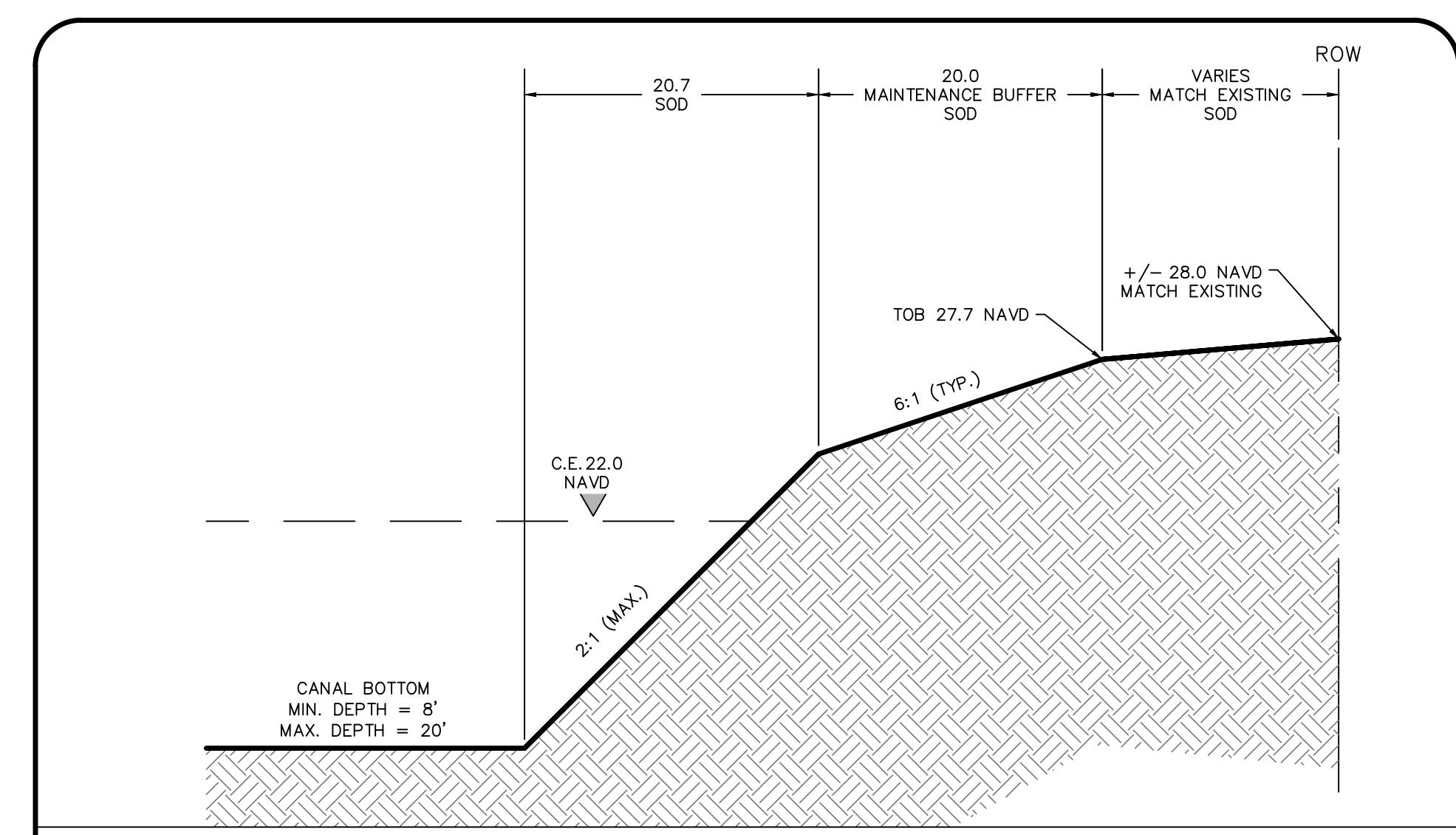
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TYPICAL SECTION C-C
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TYPICAL SECTION D-D
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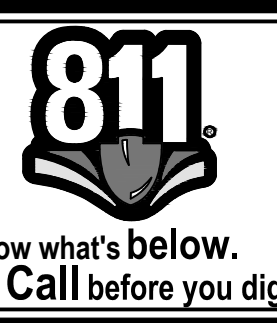


TYPICAL SECTION E-E
NOT TO SCALE

- PHASING PLAN**
- A. DUDA LITTORAL SHELVES SHALL BE CONSTRUCTED DURING THE DRY PERIOD.
 - B. DUDA LAKE SHALL BE ISOLATED FROM THE EXISTING DUDA CANA BY A BERM WITH A TOP WIDTH OF 20 FEET.
 - C. REMOVAL OF THE DUDA BERM SHALL OCCUR ONLY AFTER COMPLETION AND STABILIZATION OF BOTH THE DUDA LAKE AND DUDA LITTORAL SHELVES.

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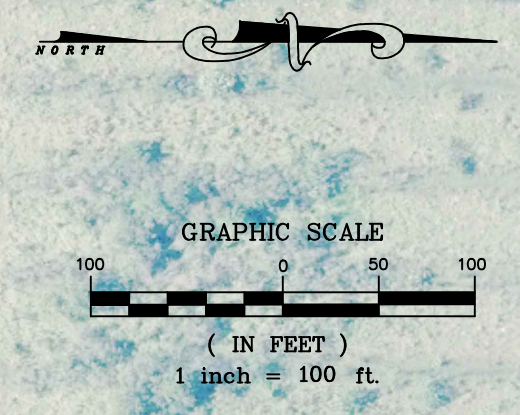
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DUDA CANAL EXPANSION - PHASE 1

CROSS SECTIONS & DETAILS

DATE: 10/13/2020
HORIZ. SCALE:
VERT. SCALE:
JOB No. 20-127
SHEET **3 of 7**



INSTALL 50' SOIL TRACKING PREVENTION DEVICE PER FLORIDA EROSION & SEDIMENT CONTROL MANUAL FIGURE V-52

INSTALL SILT FENCE PER FLORIDA EROSION & SEDIMENT CONTROL MANUAL FIGURE V-40

INSTALL FLOATING TURBIDITY BARRIER PER FLORIDA EROSION & SEDIMENT CONTROL MANUAL FIGURE V-44

INSTALL FLOATING TURBIDITY BARRIER PER FLORIDA EROSION & SEDIMENT CONTROL MANUAL FIGURE V-44

LEGEND

	PROPOSED TOP OF BANK
	EXISTING TOP OF BANK
	PROPOSED EDGE OF WATER
	PROPOSED SILT FENCE
	PROPOSED TURBIDITY BARRIER

DATUM:
ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988)

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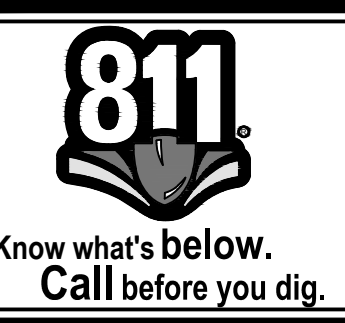
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DUDA CANAL EXPANSION - PHASE 1
 STORMWATER POLLUTION PREVENTION PLAN

DATE: 10/13/2020
 HORIZ. SCALE:
 VERT. SCALE:
 JOB No. 20-127
 SHEET 4 of 7

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JAMES P. TERPENING JR, P.E. FL. REG. NO. 24276

Section 1	Project Name and location information:	Duda Canal Expansion - Phase 1
Section 2	Describe the nature of the construction activity:	~20 acres of earthwork activities including stockpiling
Section 3	Describe the intended sequence of major soil disturbing activities:	Site clearing and grubbing, canal/lake excavation, fill placement in designated stockpile areas
Section 4	Total area of the site:	Approx 90 Acres
Section 5	Total area of the site to be disturbed:	Approx. 42 Acres
Section 6	Existing data describing the soil or quality of any stormwater discharge from the site:	The existing soils are Lawnwood and Myakka Sands, Pineda Sand, Wabassa Sand, and Winder Sand.
Section 7	Estimate the drainage area size for each discharge point:	There will be no discharge from areas of construction.
Section 8	Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	N/A. Existing Duda Canal flow is not to be interrupted.
Section 9	Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, FDOT, FDEP, and any subsequent amendments. <ul style="list-style-type: none"> Prior to clearing, a silt fence (trenched 6 inches deep and backfilled on the uphill side), may be installed as required. Floating turbidity barrier will be installed to the limits of soil disturbance along the shoreline. Disturbed portions of the site where construction activities have permanently ceased shall be stabilized with sod or other permanent stabilization methods no later than 60 days after the last construction activity. All installation shall be commenced as depicted on the attached site map and installation "typicals". Sedimentation basins have been designed to treat stormwater runoff. 	
Section 10	Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc. <ul style="list-style-type: none"> Grassing or mulch shall be used to stabilize all disturbed areas. 	
Section 11	Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins. <ul style="list-style-type: none"> Silt fence is being proposed at this time as the erosion control will be addressed by installing turbidity barriers upstream of the outfall pump in the locations indicated on the erosion control plan. The contractor may elect to install silt fence in localized areas of concern during the course of the project. 	
Section 12	Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres. <ul style="list-style-type: none"> Sedimentation basins are proposed as runoff will be directed to permanent surface water management system. 	
Section 13	Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process. <ul style="list-style-type: none"> The Project stormwater system that will accept any runoff from the disturbed areas is completed and operational. 	
Section 14	Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:	All construction materials and debris will be placed in a dumpster and hauled off site to a landfill or other proper disposal site. No materials will be buried on site.

Section 15	Offsite vehicle tracking from construction entrances/exits:	Off site vehicle tracking of sediments and dust generation will be minimized via a rock construction entrance, street sweeping and the use of water to keep dust down.																				
Section 16	The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:	Florida-friendly fertilizers and pesticides will be used at a minimum and in accordance with the manufacturer's suggested application rates.																				
Section 17	The storage, application, generation and migration of all toxic substances:	All paints and other chemicals will be stored in a locked covered shed.																				
Section 18	Other:	Port-o-lets will be placed away from storm sewer systems, storm inlet(s), surface waters and wetlands. No vehicle maintenance shall be conducted on-site. A washdown area shall be designated at all times and will not be located in any area that will allow for the discharge of polluted runoff.																				
Section 19	Provide a detailed description of the maintenance plan for all structural and non-structural controls to assure that they remain in good and effective operating condition. Contractor shall provide routine maintenance of permanent and temporary sediment and erosion control features in accordance with the technical specifications or as follows, whichever is more stringent: <ul style="list-style-type: none"> Silt fence shall be inspected at least weekly. Any required repairs shall be made immediately. Sediment deposits shall be removed when they reach approximately one-half the height of the barrier. Maintenance shall be performed on the rock entrance when any void spaces are full of sediment. Bare areas of the site that were previously seeded shall be reseeded per manufacturers' instructions. Mulch and sod that has been washed out shall be replaced immediately. Maintain all other areas of the site with proper controls as necessary. 																					
Section 20	Inspections: Describe the inspection and inspection documentation procedures, as required by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities. <ul style="list-style-type: none"> Qualified personnel will inspect all points of discharges, all disturbed areas of construction that have not been stabilized, constructed areas and locations where vehicles enter and exit the site, and all BMPs at least once every 7 calendar days and within 24 hours of the end of a rainfall event that is 0.5 inches or greater. Where sites have been finally stabilized, said inspections shall be conducted at least once every month until the Notice of Termination is filed. 																					
Section 21	Identify and describe all sources of non-stormwater discharges as allowed by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities. <ul style="list-style-type: none"> It is expected that no non-stormwater discharges will occur from the site during construction period: 																					
Section 22	All contractor(s) and subcontractor(s) identified in the SWPPP must sign the following certification: "I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."																					
Section 22		<table border="1"> <thead> <tr> <th>Name</th> <th>Title</th> <th>Company Name, Address and Phone Number</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Name	Title	Company Name, Address and Phone Number	Date																
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STATE OF FLORIDA EROSION & SEDIMENT CONTROL - DESIGNER & REVIEWER MANUAL

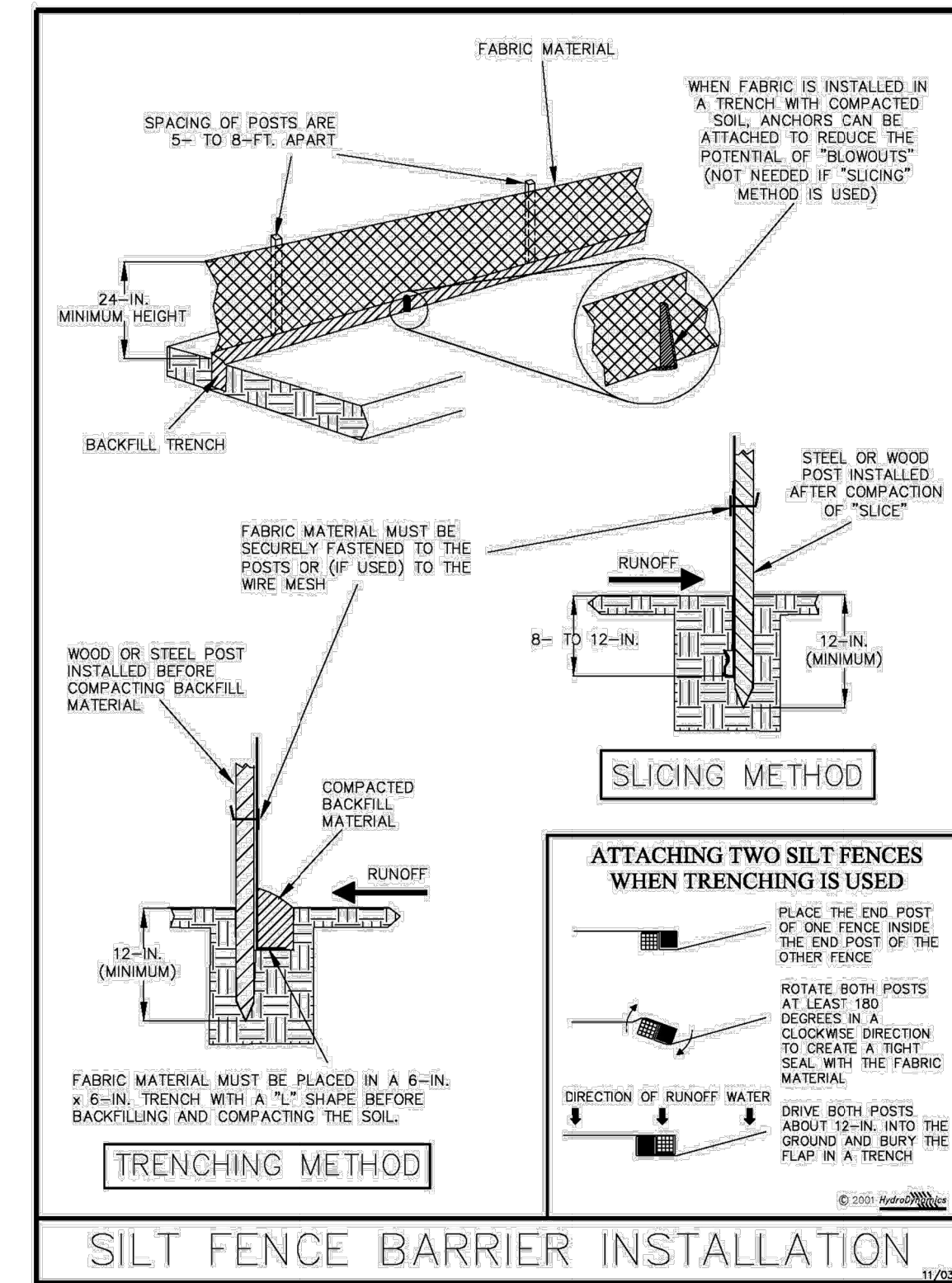


Figure V-40: Illustration of a Silt Fence Barrier

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V-7

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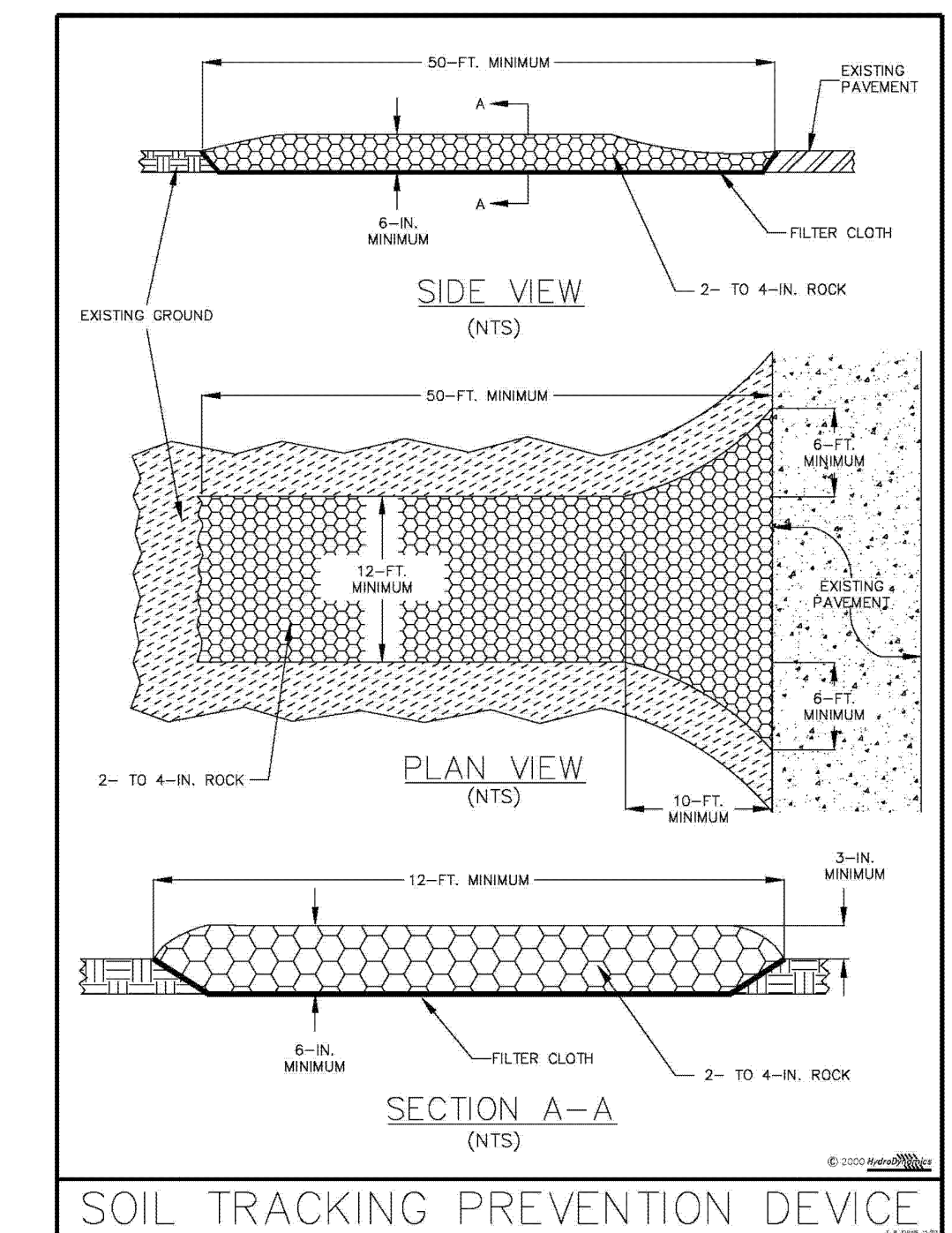


Figure V-52: Illustration of a Soil Tracking Prevention Device

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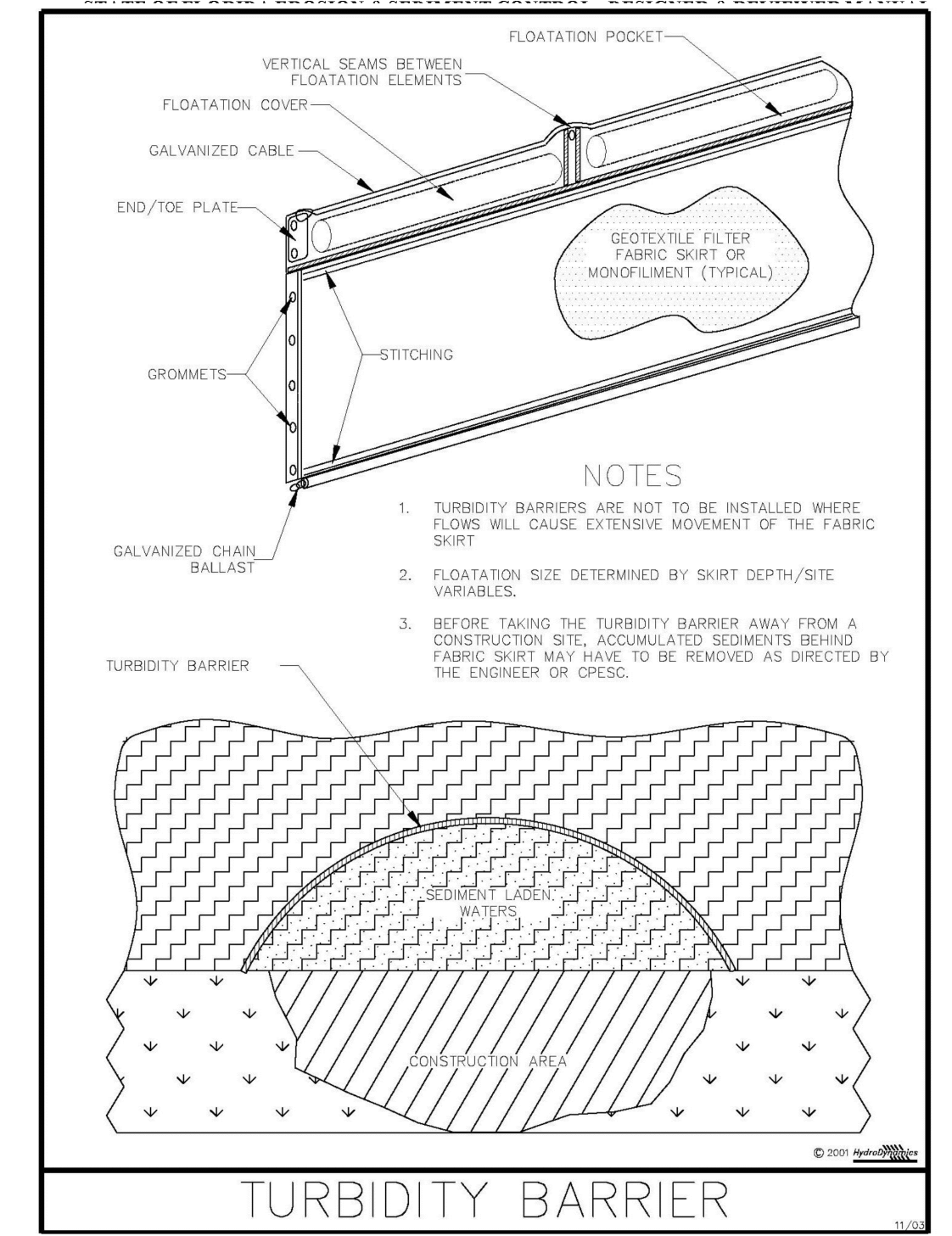
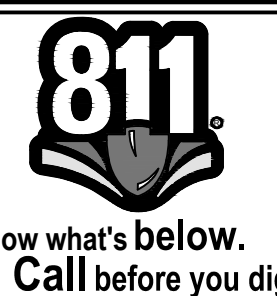


Figure V-44: Illustration of a Turbidity Barrier Curtain

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DUDA CANAL EXPANSION - PHASE 1
STORMWATER POLLUTION PREVENTION
DETAILS

DATE: 10/13/2020
HORIZ. SCALE:
VERT. SCALE:
JOB No. 20-127
SHEET 5 of 7

JAMES P. TERPENING JR, P.E. FL. REG. NO. 24276

GENERAL

- A. Mobilization: Mobilization shall meet the requirements of FDOT Section 101. This work shall include, but is not limited to, operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site, and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, sanitary and other facilities, as required by State and local laws and regulations. the costs of bonds and any required insurance, and any other preconstruction expense necessary for the start of work, excluding the cost of construction materials, shall also be included in this section. This section also includes any and all work related to the final cleanup.
- B. Construction Surveying: The Owner shall provide horizontal control consisting of four control points. The Owner shall also provide vertical benchmarks as shown on the plans. This control shall be provided one time only. The Contractor is responsible for all other construction surveying. The Contractor is responsible to protect these reference points and the construction staking throughout the job. The Contractor shall bear the cost of any necessary restaking.
- C. Soil Testing: Soil Testing shall be performed by a certified testing laboratory. The contractor shall be responsible for payment of any failed tests and inspections.

EARTHWORK AND GRADING

Materials and construction methods for earthwork, excavation, embankment and grading shall meet the requirements of FDOT Section 120 and shall be performed to achieve final grades, elevations and typical sections as shown on the plans for the proposed work.

- A. Clearing and Grubbing: Clearing and grubbing shall meet the requirements of FDOT Section 110 and shall be performed within the limits of the project work. This work shall include, but is not limited to, the removal of existing trees, brush stumps, roots and other objectionable material to a depth of 18 inches below the natural ground or design grade, whichever is lower. The areas to be cleared and grubbed generally consist of rights-of-way, utility easements, water management tracts, and portions of the lots as detailed on the plans. The Contractor shall confirm with the Owner the removal of any trees for possible preservation. All material shall be removed from the site of the project and shall be disposed of in accordance with local, regional, State and Federal laws, regulations and ordinances.
- B. Rough Grade: The Contractor shall grade the rights-of-way and lots to meet the requirements of FDOT Sections 110 and 120 and shall conform to the lines, grades, and typical sections as shown on the plans.
- C. Fine Grade: The Contractor shall fine grade the roadway to meet the requirements of FDOT Sections 110 and 120 and shall conform to the lines, grades and typical sections as shown on the plans.
- D. Sod: Sod shall meet the requirements of FDOT Section 570, 575, and 981 and shall be placed adjacent to the curbing for a minimum width of 24 inches.
- E. Seed and Mulch: Seed and mulch shall meet the requirements of FDOT Sections 570, 575, and 981 and shall be placed in all disturbed areas not otherwise addressed in plans provided by the owner.

GENERAL NOTES

1. Grassing shall be furnished and installed in conformance with the approved landscape plan. All disturbed areas not shown to be planted, mulched, etc. shall be sodded.
2. Sod shall be placed such that the top of the grass is at the same elevation as the top of adjacent finish grade.
3. The location of existing utilities shown is approximate only and must be field verified by the Contractor prior to beginning Work.
4. These plans shall not be used for construction unless they are marked "Approved for Construction" in the title block.
5. Contractor to obtain and review all permits prior to starting construction
6. Drawing scale may change due to reproduction
7. Maintenance of traffic must be in conformance with FDOT Specifications.
8. All nuisance exotic vegetation on-site must be removed in conjunction with site development.
9. Drawing scale may change due to reproduction.
10. It is the contractor's responsibility to ascertain the exact locations, size, and condition of all existing underground utilities whether shown or not, prior to construction. Contractor shall notify all utility companies prior to construction and notify engineer prior of any deviation from what is shown on the plan.
11. All pipe lengths and centerline slope lengths shown on the drawing are scaled distances measured from center of structures). Contractor shall confirm all measurements in the field and notify engineer in writing of any discrepancies with the drawing prior to performing the work. All quantities shall be paid on the basis of field measurements of completed work.

LITTORAL PLANTINGS NOTES

1. The work in phase 1 includes regrading of the western Duda Canal bank to form a total of 1.39 acres of new littoral area by sloping the soils at slopes no steeper than 6:1 (target 10:1) for a horizontal width of 20 feet, and approximate depth of two feet below the canal control elevation. The littoral areas will be covered by approximately four inches of seed source muck soils excavated from wetlands or lateral ditches scheduled to be filled.
2. The contractor shall furnish all labor, materials, equipment, and incidentals necessary for the Southern Grove Duda Canal Littoral Area Project, including, but not limited to maintenance of traffic, erosion and sediment control, maintaining drainage patterns, and transporting/placing seed source muck soils for the construction of the proposed littoral area.
3. Contractor is responsible for removal of Category I and II invasive exotic vegetation within the project area with the exception of Bermuda and Bahia grasses. All disturbed areas are to be vegetated in accordance with City of Port St. Lucie requirements.

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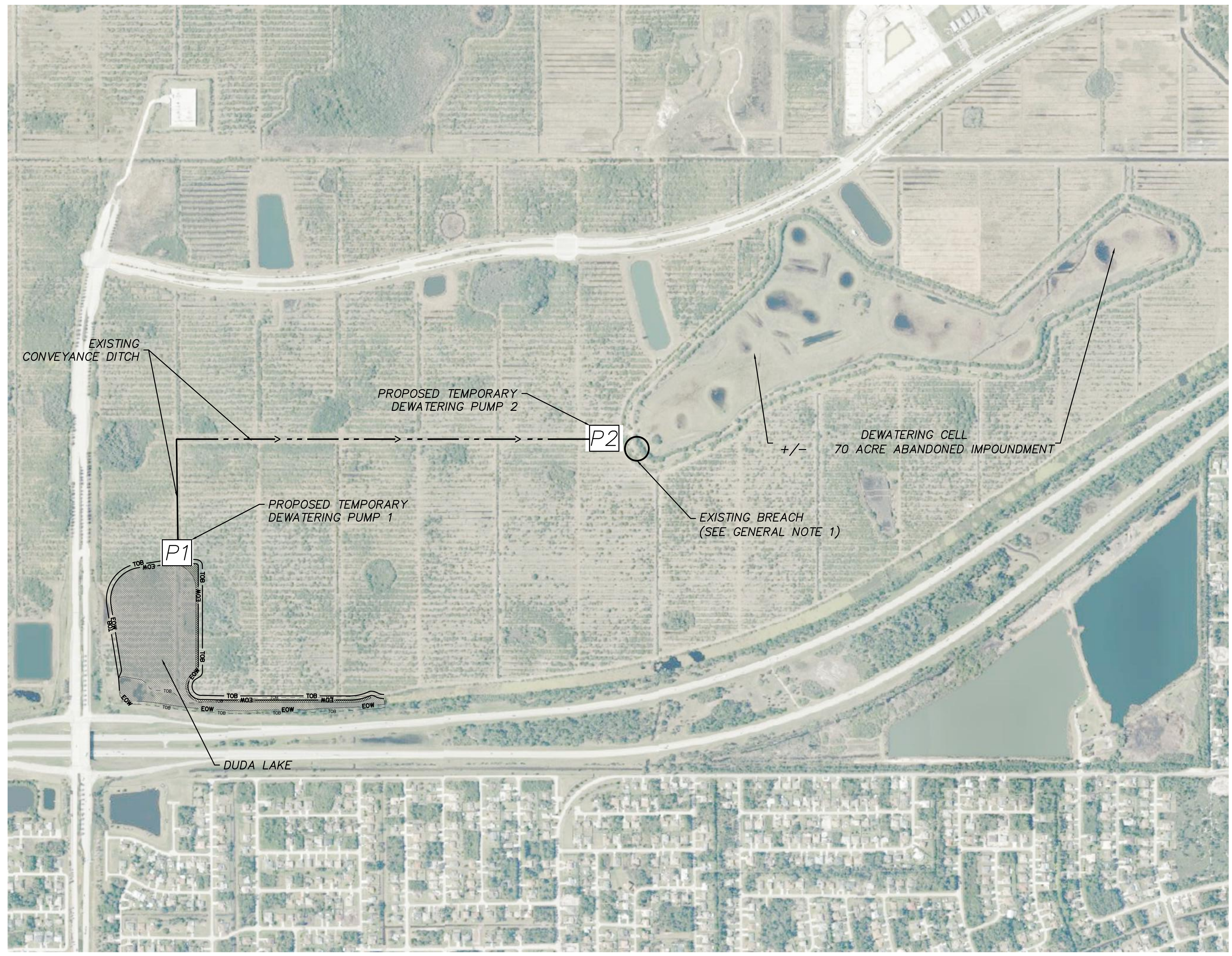
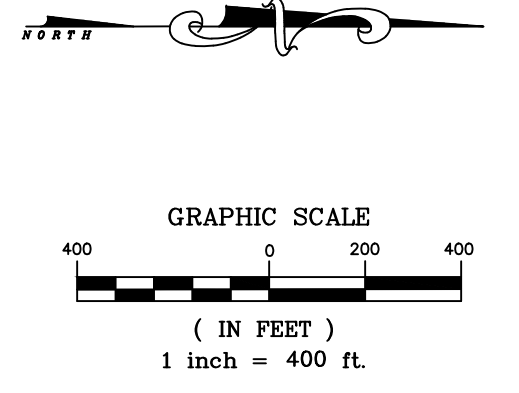
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DUDA CANAL EXPANSION - PHASE 1

SPECIFICATIONS

DATE: 10/13/2020
HORIZ. SCALE:
VERT. SCALE:
JOB No. 20-127
SHEET 6 of 7



- DEWATERING NOTES:**
1. DEWATERING ACTIVITIES ARE LIMITED TO 1,080,000 GPD MAXIMUM DISCHARGE.
 2. THE CONTRACTOR IS NOT LIMITED TO THE NUMBER OF PUMPING OPERATIONS RUNNING AT ONE TIME, BUT IS LIMITED TO THE TOTAL DAILY DEWATERING DISCHARGES AS LISTED ABOVE.
 3. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE METHODS OF DEWATERING AND DISCHARGE MANAGEMENT.
 4. THE DEWATERING SEQUENCING SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE CONTRACTORS CONSTRUCTION SCHEDULE.
 5. DEWATERING SHALL BE PERFORMED BASED ON THE PERMIT ISSUED BY SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
 6. THE SEASONAL HIGH-WATER TABLE IS ASSUMED TO BE APPROXIMATELY 21.0 FEET NAVD.
 7. DISCHARGE OF DEWATERING SHALL BE CONTROLLED TO ENSURE NO EROSION AT THE DISCHARGE POINT OCCURS.
 8. IF THE WATER QUALITY MONITORING OF THE DISCHARGE POINT IS DETERMINED TO BE 29 NTU'S ABOVE BACKGROUND LEVEL THEN DEWATERING SHALL CEASE AND CORRECTIVE MEASURES IMPLEMENTED.
 9. THE CONTRACTOR SHALL OBSERVE DAILY DEWATERING DISCHARGES TO OBSERVE THE PRESENTS OF TURBIDITY, CHEMICAL ODORS, OILS, OR OTHER EVIDENCE OF CONTAMINATION.
 10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A DAILY LOG ON SITE DURING THE DEWATERING RECORDING THE TIME AND DATE OF THE DAILY INSPECTIONS, THE DAILY PUMPING RATES AND PUMP RUN LOGS.
 11. IF CONTAMINATION WAS OBSERVED DURING THE DAILY INSPECTIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT MANAGER.

- WATER QUALITY MONITORING NOTES:**
1. WATER QUALITY MONITORING FOR TURBIDITY SHALL BE TAKEN TWICE DAILY DURING THE DEWATERING OPERATION
 2. TURBIDITY SHALL BE EXPRESSED IN NEPHELOMETRIC TURBIDITY UNITS (NTU).
 3. BACKGROUND SAMPLES SHALL BE TAKEN 200 FEET UPSTREAM OF THE DEWATERING DISCHARGE POINT TO DETERMINE THE BACKGROUND WATER QUALITY.
 4. DAILY SAMPLES SHALL BE TAKEN AT THE DISCHARGE POINT WITH AT LEAST 4 HOURS BETWEEN SAMPLES.
 5. DAILY SAMPLES SHALL COMMENCE ON THE FIRST DAY OF DEWATERING AND TERMINATE UPON COMPLETION OF THE DEWATERING ACTIVITIES.
 6. THE DAILY SAMPLES MUST DEMONSTRATE THAT THE COMPLIANCE TURBIDITY SAMPLES ARE LESS THAN 29 NTU ABOVE THE BACKGROUND SAMPLES NTU LEVEL.
 7. A WATER QUALITY MONITORING LOG SHALL BE MAINTAINED ON SITE. THE LOG SHALL INCLUDE THE DAILY MONITORING REPORTS.
 8. THE MONITORING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - a. THE DEWATERING PERMIT NUMBER;
 - b. THE DAY AND TIME OF WHEN THE SAMPLE WAS TAKEN;
 - c. THE DEPTH OF THE WATER BODY
 - d. THE DEPTH OF THE SAMPLE; AND
 - e. ANTECEDENT WEATHER CONDITIONS.

- GENERAL NOTES:**
1. CONTRACTOR TO REPAIR EXISTING BREACH IN THE ABANDONED IMPOUNDMENT. UPON COMPLETION OF DEWATERING ACTIVITIES THE REPAIR IS TO BE REMOVED AND THE BREACH IS TO BE LEFT OPENED.

JAMES P. TERPENING JR, P.E. FL. REG. NO. 24276

P:\Proj-2020\20-127 Arco Murray\Eng\20-127 Duda Canal Dewatering.dwg Plotted: 11/19/2020 1:43 PM By: ZACH MOUW

COMPUTER FILE REF.	FIELD BK./PG.

COMPUTER FILE REF.	FIELD BK./PG.

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 STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

- REVISIONS -		BY	DATE

	BY	DATE
DESIGNED		
CALCS.		
DRAWN	ZM	10-14-20
DETAILED	ZM	
CHECKED		
APPROVED	JPT	

DUDA CANAL EXPANSION - PHASE 1

DEWATERING PLAN

DATE: -
HORIZ. SCALE: 1"=400'
VERT. SCALE: NA
JOB No. 20-127
SHEET 7 of 7