

Rocky Point Road Shoreline Stabilization for Town of Malabar Brevard County, Florida

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LOCATION MAP



Not to Scale

Project Area Location Map



Not to Scale

GENERAL NOTES

1. The work consists of furnishing all labor, equipment, and materials required for shoreline stabilization at Rocky Point Rd fronting the Indian River Lagoon as shown on these documents and as specified in the Contract Documents.
2. All work shall conform to the required permits to be provided by the Town of Malabar. The Contractor who performs the work shall post on the job site all permit placards and the Contractor shall comply with all terms of the permits as pertaining to performance of the work.
3. Prior to construction, the Contractor shall meet with the Engineer or the Engineer's designee (pre-construction meeting) to verify construction access locations, design details, and methods of construction.
4. Profile data and surveys by Oceanside Solutions. Surveys were performed on the dates shown on these drawings.

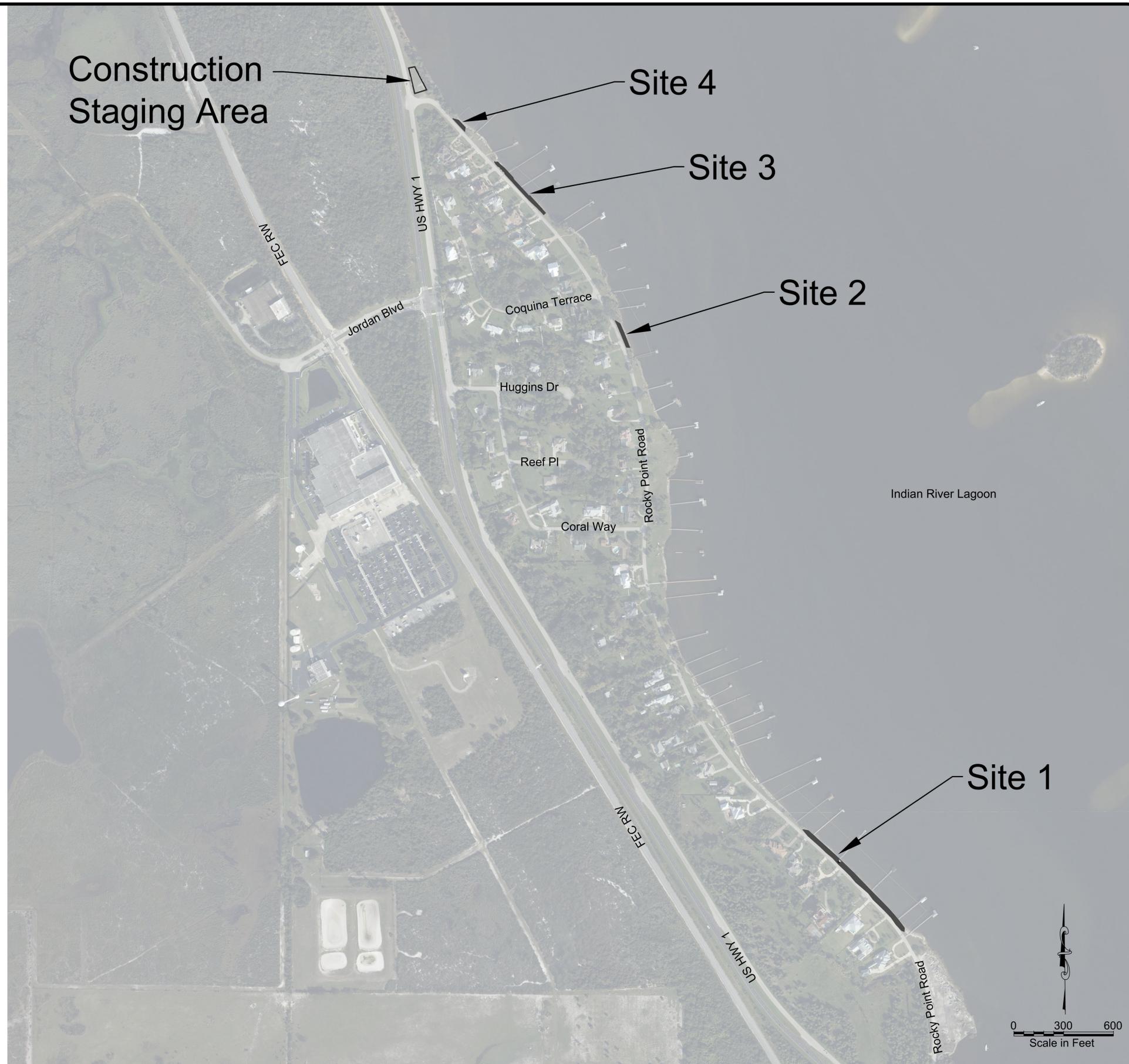


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Construction Notes

1. Design Criteria:
 - Revetment design based upon US Army Corp of Engineers MIL-STD-3007 and EM 1110-2-1614, Design of Revetments, Seawalls and Bulkheads, USACE.
2. Sediment Control
 - a. Prior to commencement of removal of existing structures and debris, the Contractor shall implement sediment control measures surrounding the limits of construction to insure that the construction activities will not cause violations of State water quality standards or other regulatory sediment control requirements. All sediment control devices shall remain in place until all demolition and construction activities are completed.



Survey Data: Oceanside Solutions (January 12, 16-19, 2023)
 Aerial Photo: National Oceanic and Atmospheric Administration (November 15, 2022)

STEPHEN W. BOEHNING, P.E. DATE
 FL. P.E. NO. 52201

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10/27/2023	SWB

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**Rocky Point Road Shoreline Stabilization
 for Town of Malabar**

Project Site Plan, Construction Access, and Notes

Drawn By BP
Review SWB
Date 8/31/2023
Scale AS NOTED
Project Number 2062301
Sheet Number

TIDAL DATA

SOURCE: NOAA STATION 8721994, MICCO, INDIAN RIVER, FL

ACTUAL WATER LEVELS SHALL BE EXPECTED TO VARY FROM THOSE LISTED HEREON. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING WORK IN COORDINATION WITH OWN ESTIMATIONS. VARIATIONS IN TIDE LEVELS WILL NOT SERVE AS A BASIS FOR SCHEDULE EXTENSIONS OR ADDITIONAL COMPENSATION.

GENERAL NOTES

1. SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION TO ENSURE PUBLIC AND PRIVATE SAFETY IN AND AROUND THE CONSTRUCTION SITE.

2. IT IS THE RESPONSIBILITY OF CONTRACTOR TO ESTABLISH THE FOLLOWING IN THE FIELD: RIGHT OF WAY LINES, BENCHMARKS, CENTER LINES AND STATIONING AS MAY BE REQUIRED TO CONSTRUCT THE PROJECT.

3. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SAFETY OF WORK.

4. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO PREVENT DAMAGE TO EXISTING STRUCTURES BY OR AS A RESULT OF OPERATIONS SHALL BE REPAIRED AS DIRECTED BY THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.

5. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE PRIOR TO BIDDING AND INITIATING ANY CONSTRUCTION. THE CONTRACTOR SHALL, PRIOR TO ANY CONSTRUCTION ACTIVITY, HOLD A PRE-CONSTRUCTION MEETING WITH ALL PERMITTING AGENCIES AND THE OWNER REPRESENTATIVES.

6. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL STRUCTURES AND EXISTING UTILITIES (ABOVE AND BELOW GRADE) WITHIN THE CONTRACTORS PROPOSED WORK AREAS AND ACCESS COORIDORS, WHETHER SHOWN OR NOT ON THE DRAWINGS.

7. ALL DEBRIS AS A RESULT OF, OR IN THE IMMEDIATE VICINITY OF, THE WORK SHALL BE RECOVERED AND PROPERLY DISPOSED OF OFFSITE BY THE CONTRACTOR AT NO ADDITIONAL COST IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. DEBRIS WITHIN THE FOOTPRINT OF REVETMENT CONSTRUCTION SHALL BE DISPOSED OF AND COMPENSATION MADE TO THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ALL CONSTRUCTION DEBRIS OR WASTE FROM FALLING INTO THE WATER. ANY DEBRIS FALLING INTO THE WATER SHALL BE RECOVERED AND PROPERLY DISPOSED OF.

9. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE ENGINEER. REGULATORY AGENCIES, AND OWNER. THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR ENGINEER TO INSPECT AND INQUIRE ABOUT THE WORK. THIS MAY INCLUDE PROJECT MANAGERS, SUPERINTENDENTS, FOREMAN, LABORERS, LADDERS, HARD HATS, LIFTS, SCAFFOLDING, MEASURING DEVICES, BOATS, SURVEY EQUIPMENT, ETC.

10. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION AND AS-BUILT CERTIFICATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.

11. ALL PERMANENT MATERIAL SHALL BE NEW. USED, RECONDITIONED, OR REMANUFACTURED MATERIAL SHALL NOT BE ALLOWED UNLESS APPROVED BY THE OWNER IN WRITING.

12. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. ANY DEVIATION IN EXISTING CONDITIONS WITH DRAWINGS OR SPECIFICATIONS SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ADJACENT FACILITIES AND STRUCTURES CAUSED BY HIS ACTIVITIES DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL RESTORE ALL SUCH DAMAGES TO THEIR PRE-CONSTRUCTION CONDITION AT NO COSTS TO THE OWNER. STRUCTURES WITHIN THE R.O.W. ARE TO BE DISMANTLED AND DISPOSED OF PROPERLY IF ADJACENT OWNER DOES NOT WANT IT PLACED ON THEIR PROPERTY (OUTSIDE OF THE R.O.W.).

14. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION AND TURBIDITY CONTROL MEASURES AS NECESSARY TO COMPLY WITH LOCAL,

STATE, AND FEDERAL LAWS AND REGULATIONS.

15. ALL WORK TO BE DONE ABOVE MEAN HIGH WATER LINE (MHWL).

16. TURBIDITY CONTROL MEASURES ARE NOT NECESSARILY NEEDED AS NO WORK WILL BE PERMITTED IN THE ADJACENT WATER BODY. CONTRACTOR SHALL INSTALL TURBIDITY CURTAINS AS MAY BE NECESSITATED BY ELEVATED TIDE EVENTS.

17. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY PERMIT AUTHORITIES. ANY ADDITIONAL EROSION CONTROL MEASURES SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.

STAGING AND CONSTRUCTION ACCESS

1. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, AND TRAFFIC CONTROLS AS REQUIRED BY THE OWNER AND IN COORDINATION WITH THE ENGINEER.

2. CONTRACTOR WILL NOT BE ALLOWED TO TRAVERSE, UTILIZE, OR IMPACT ADJACENT PROPERTIES WITHOUT SPECIFIC AUTHORIZATION FROM THE PROPERTY OWNER AND A CONSTRUCTION WORK PLAN ACCEPTED BY THE OWNER AND ENGINEER.

3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ALL OTHER CONSTRUCTION ADJACENT TO THE PROJECT. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO PROCEEDING WITH CONSTRUCTION.

4. THE CONTRACTOR IS REQUIRED TO RESTORE THE ACCESS AND STAGING AREAS TO THE ORIGINAL SITE CONDITION. RESTORATION ACTIVITIES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, REPLACING OR REPAIRING DAMAGED INFRASTRUCTURE (INCLUDING FENCING, PAVEMENT, ETC.), PLACING AND GRADING CLEAN SAND FILL IN RUTTED OR DISTURBED AREAS, AND VEGETATION RESTORATION.

PERMITS AND PERMIT CONDITIONS

1. THE OWNER HAS FURNISHED THE REGULATORY AUTHORIZATIONS AS ISSUED BY THE FLORIDA DEP FOR THE PROPOSED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY OTHER NECESSARY PERMITS REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL WORK NECESSARY FOR CONSTRUCTION OF THE STRUCTURES AND ASSOCIATED APPURTENANCES COMPLIES WITH THE CONDITIONS SET FORTH IN THE PERMIT DOCUMENTS. THE CONTRACTOR WILL OBTAIN AND COMPLY WITH ANY AND ALL PERMITS FOR THIS PROJECT. IN THE CASE OF CONFLICT WITH THESE SPECIFICATIONS, THE PERMITS SHALL GOVERN. IF THE CONTRACTOR VIOLATES ANY CONDITION OF THE PERMITS AND WORK IS STOPPED AND/OR FINES ARE LEVIED BY THE STATE OF FLORIDA OR OTHER PUBLIC ENTITY, THEN ANY FINES AND ADDITIONAL COSTS INCURRED SHALL BE PAID BY THE CONTRACTOR AND NOT CHARGED TO THE OWNER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, DRIVEWAY OR ENTRANCE PERMITS, TEMPORARY UTILITIES PERMITS, ETC.

3. UNLESS CLEARLY SPECIFIED OTHERWISE BY THE OWNER IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL NOTICES OF COMMENCEMENTS AND NOTICES OF COMPLETION TO ALL PERMITTING AGENCIES INCLUDING PERMITS SUPPLIED BY THE OWNER.

4. ALL PROPOSED CONSTRUCTION ACTIVITIES SHALL BE IN STRICT COMPLIANCE WITH ALL APPLICABLE REGULATORY RULES.

SUBMITTALS AND TESTING REQUIREMENTS

1. SEE CONTRACT SPECIFICATIONS FOR FULL LIST OF REQUIRED SUBMITTALS.

2. ALL TESTING, EITHER PRE-CONSTRUCTION OR CONSTRUCTION, AS REQUIRED HEREIN OR IN THE CONTRACT DOCUMENTS, SHALL BE PERFORMED BY AN INDEPENDENT QUALIFIED TESTING COMPANY. THE COSTS OF ALL SUCH TESTING SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE BID PRICE.

3. THE QUALIFIED TESTING AGENCY SHALL BE APPROVED PER FDOT STANDARDS, AASHTO STANDARDS OR SIMILAR SUCH STANDARDS AS APPROVED BY THE ENGINEER. ALL TESTING WORK SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN FLORIDA AND SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IF REQUESTED.

4. ALL REQUIRED SUBMITTALS OR MANUFACTURER'S INFORMATION SHALL BE IN U.S. CUSTOMARY UNITS.

5. ALL TECHNICAL SUBMITTALS ON THESE DRAWINGS OR IN THE SPECIFICATIONS REQUIRE APPROVAL BY THE ENGINEER UNLESS NOTED OTHERWISE.

MATERIALS

1. ALL CLEARING, GRUBBING, EARTHWORK, AND GRASSING SHALL CONFORM TO THE MATERIAL, FABRICATION, QUALITY TESTING, EXECUTION REQUIREMENTS AND ALL OTHER REQUIREMENTS OUTLINED IN THE TECHNICAL SPECIFICATIONS.

2. ALL FILTER FABRIC, TOE ROCK, AND REVETMENT ROCK SHALL CONFORM TO THE MATERIAL, FABRICATION, QUALITY TESTING, EXECUTION AND ALL OTHER REQUIREMENTS OUTLINED IN TECHNICAL SPECIFICATIONS.

EROSION CONTROL AND GENERAL VEGETATION NOTES

1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND COMPLY WITH STATE WATER QUALITY CRITERIA FOR STORMWATER DISCHARGE. EROSION CONTROL MEASURES INCLUDE BUT ARE NOT LIMITED TO TURBIDITY CURTAINS, MULCHING, HAYBALES, AND SILT FENCE. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSTRUCTION COSTS, AND FINES.

2. DISTURBED AREAS SHALL BE VEGETATED, FERTILIZED, MULCHED, AND MAINTAINED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING PERMANENT VEGETATION AT ALL DISTURBED AREAS PER NPDES FINAL STABILIZATION REQUIREMENTS.

4. EROSION CONTROL MEASURES SHALL BE MAINTAINED FOR THE ENTIRE DURATION OF THE PROJECT OR UNTIL PERMANENT VEGETATION IS ESTABLISHED.

5. EROSION CONTROL MEASURES SHALL BE PLACED TO CONTAIN ALL POINTS OF DISCHARGE TO SURFACE WATERS OR WETLANDS INCLUDING CURB INLETS, DITCH BOTTOM INLETS, DITCHES, AND DOWNSTREAM PORTIONS OF NATURAL DRAINAGE PATHWAYS, STREAMS, CANALS, AND TIDAL WATERS ADJACENT TO CONSTRUCTION.

6. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS.

7. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.

8. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

9. TURBIDITY CONTROL MEASURES SHALL BE USED THROUGHOUT CONSTRUCTION TO CONTROL EROSION AND SILTATION TO ENSURE THERE ARE NO VIOLATIONS OF STATE OR FEDERAL WATER QUALITY STANDARDS. TURBIDITY CONTROL MEASURES SHALL BE: (1) FOR THE SMALLEST PRACTICABLE AREA; (2) MONITORED DAILY TO ENSURE LISTED SPECIES ARE NOT ENTANGLED OR TRAPPED IN THE PROJECT AREA; (3) SHALL BE REMOVED PROMPTLY UPON PROJECT COMPLETION AND THE RETURN OF WATER QUALITY CONDITIONS; (4) AND SHALL NOT BLOCK ENTRY TO OR EXIT FROM DESIGNATED CRITICAL HABITAT. SILTATION BARRIERS SHALL BE MADE OF MATERIAL IN WHICH LISTED SPECIES CANNOT BECOME ENTANGLED (I.E., REINFORCED IMPERMEABLE POLYCARBONATE VINYL FABRIC (PVC)).

10. TURBIDITY CURTAINS ARE NOT REQUIRED WHERE NOT PRACTICAL IN DYNAMIC SYSTEMS SUCH AS SURF ZONES AND COULD ACTUALLY DO MORE HARM THAN GOOD IF THE CURTAINS BECOME DETACHED (E.G., THEY COULD ENTRAP PELAGIC ORGANISMS AND BECOME ENTANGLED AROUND BENTHIC ORGANISMS).

SILT FENCE INSTALLATION NOTES:

1. USE WOOD POSTS 1 INCH x 1 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.

2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.

3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL. FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.

4. PROVIDE MANUFACTURER CERTIFICATION TO THE E.O.R. SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL.

5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.

6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.

7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.

8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

**NOTE:
ALL PROJECT WORK TO BE ABOVE MEAN HIGH WATER LINE (MHWL), EL: -0.71 NAVD88. NO EXCAVATION SHALL OCCUR BELOW THE MEAN HIGH WATER LINE.**

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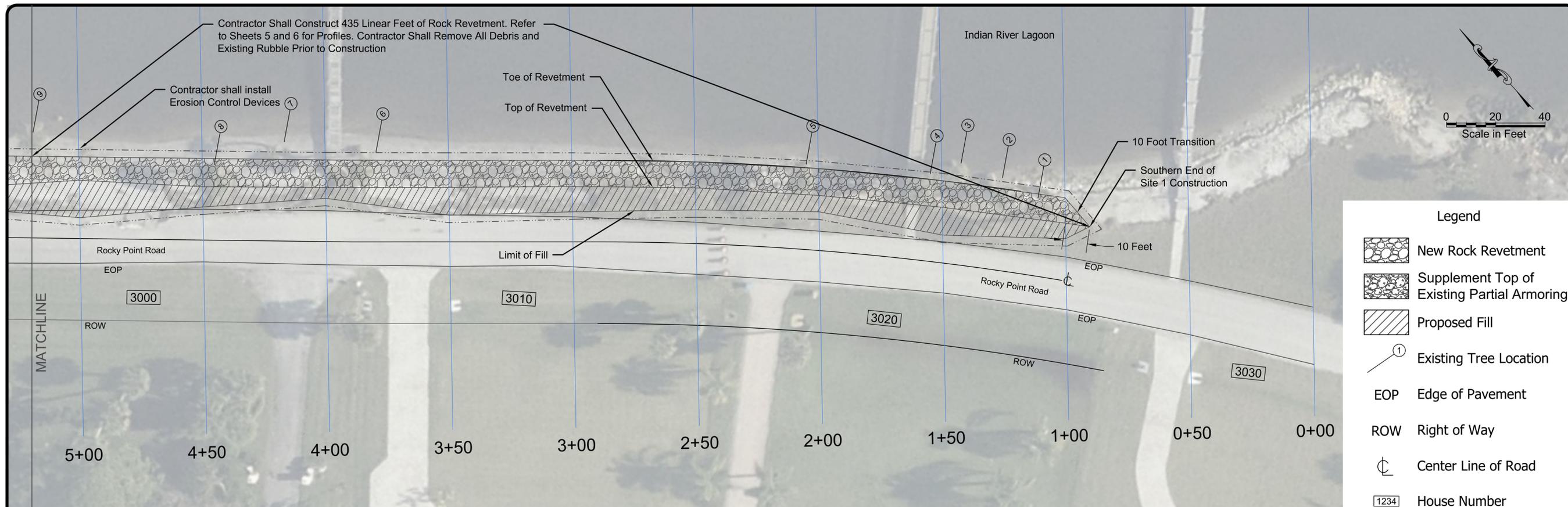


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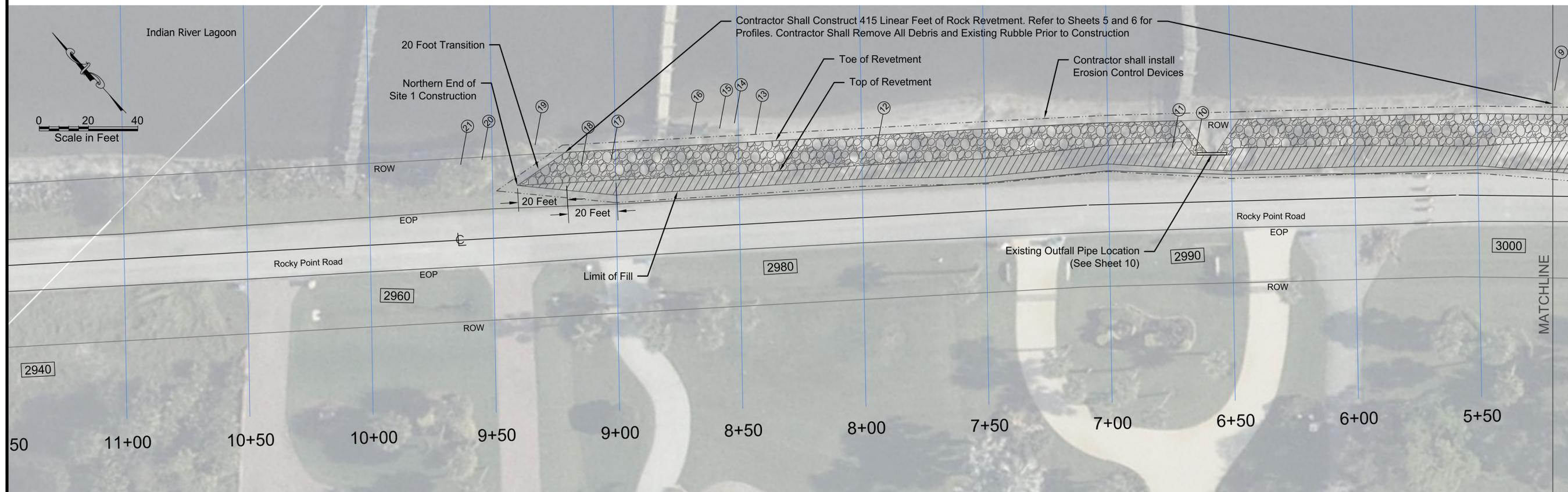
Rocky Point Road Shoreline Stabilization
for Town of Malabar

General Notes

Drawn By BP
Review SWB
Date 8/31/2023
Scale
AS NOTED
Project Number 2062301
Sheet Number
3
of 10 Sheets



Plan View - Site 1 - South End



Plan View - Site 1 - North End

Survey Data: Oceanside Solutions (January 12, 16-19, 2023)
 Aerial Photo: National Oceanic and Atmospheric Administration (November 15, 2022)

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Site 1 Site Plan

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2062301 of 10 Sheets

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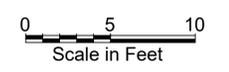
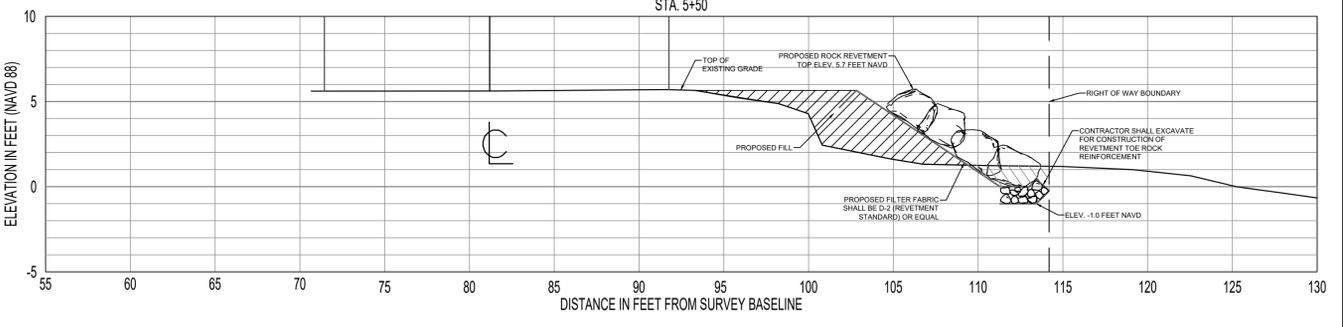
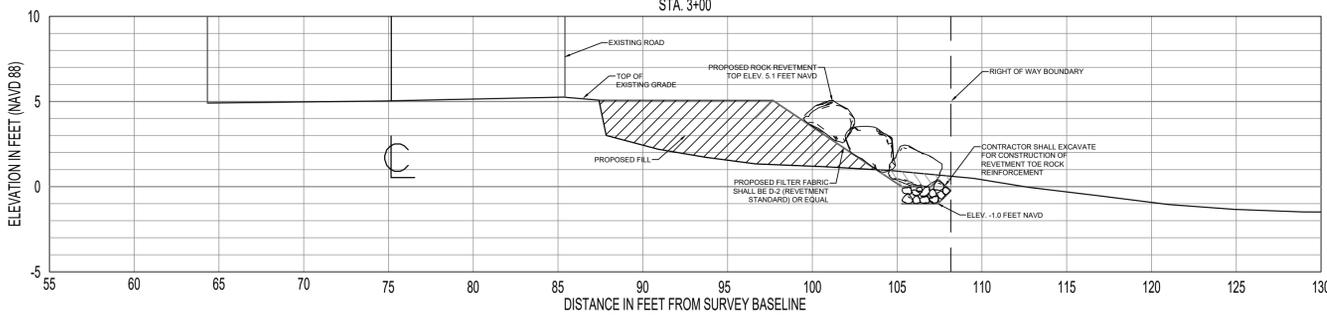
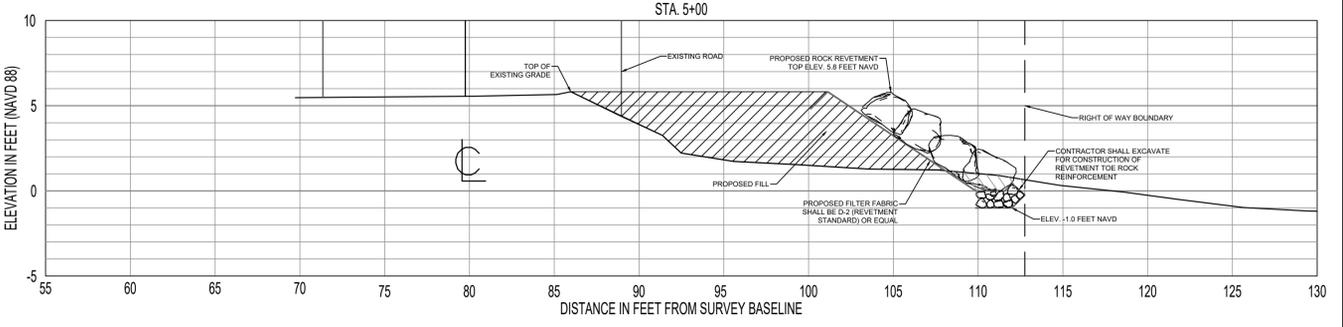
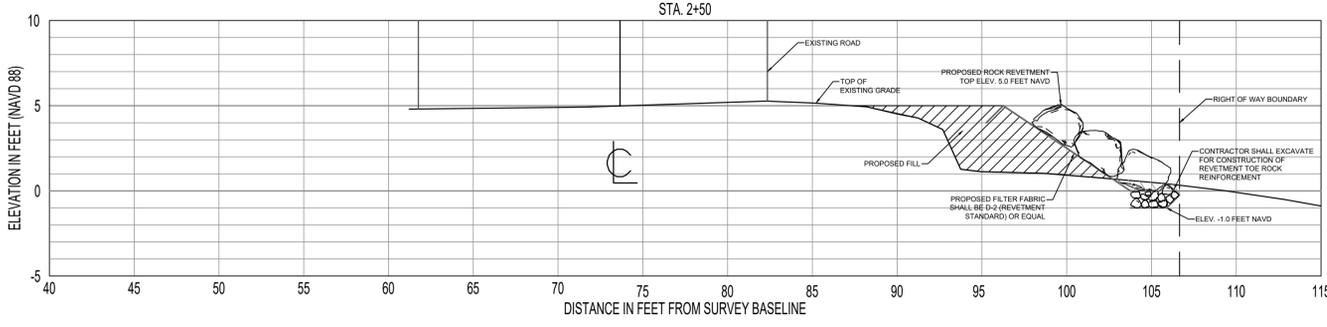
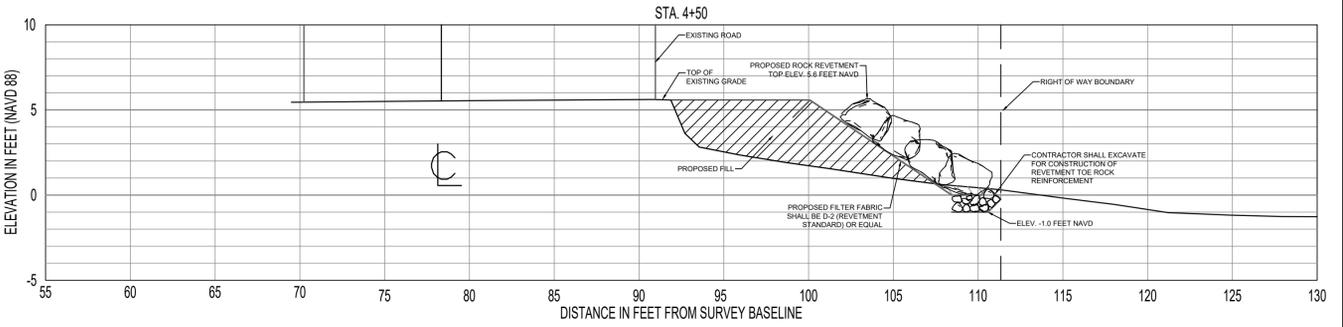
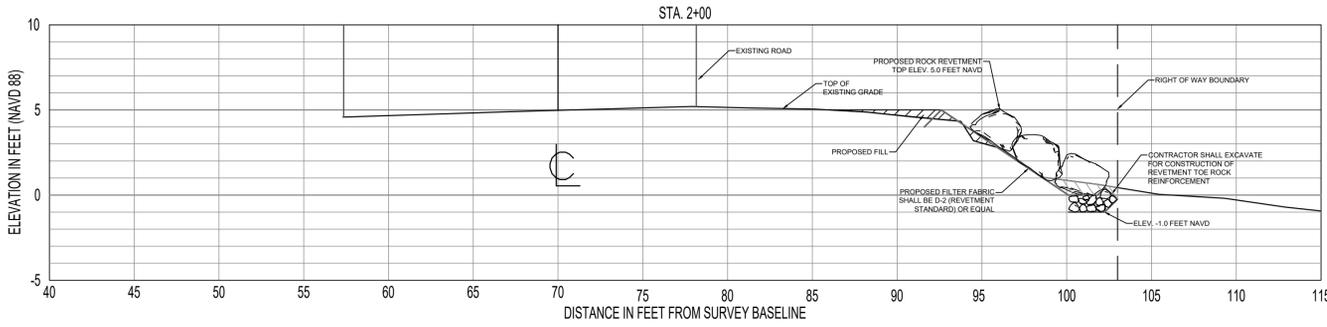
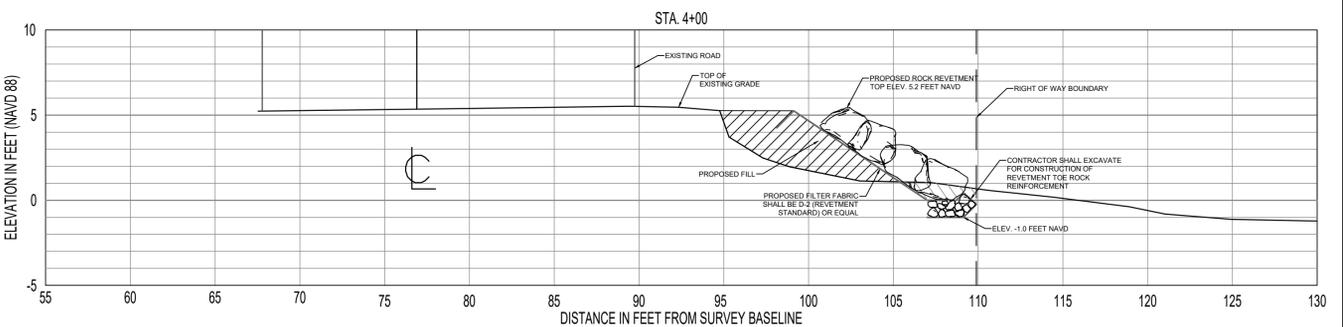
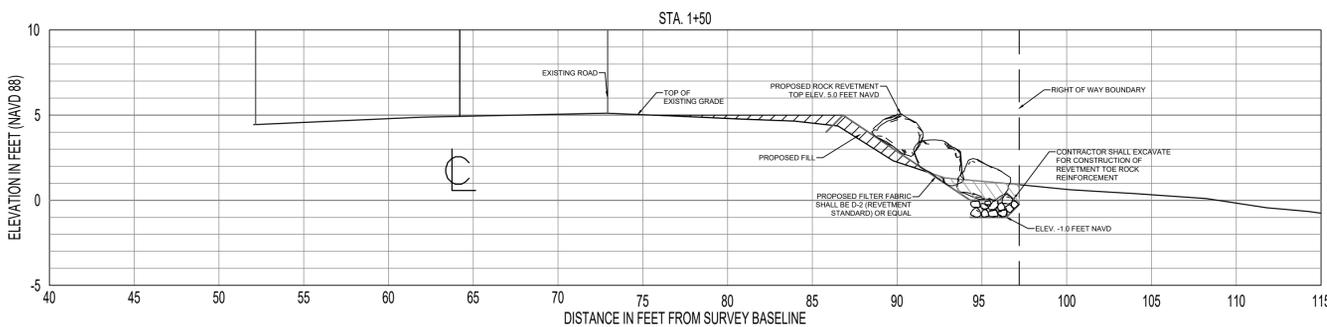
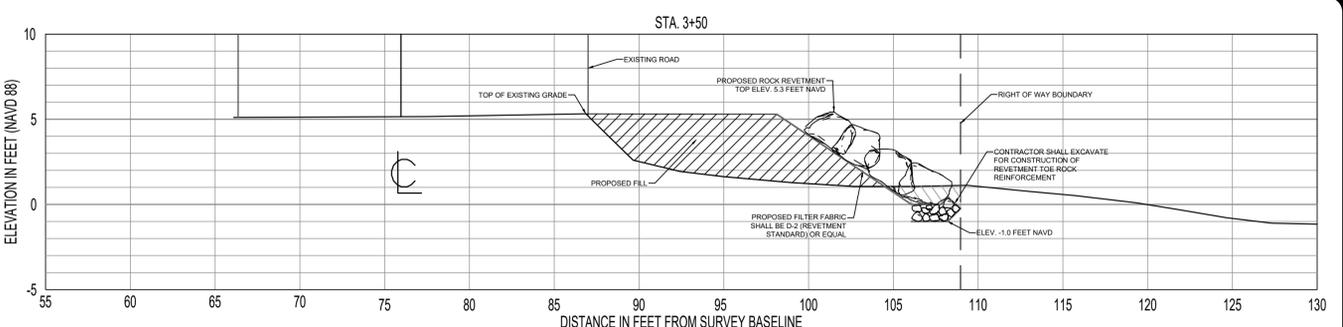
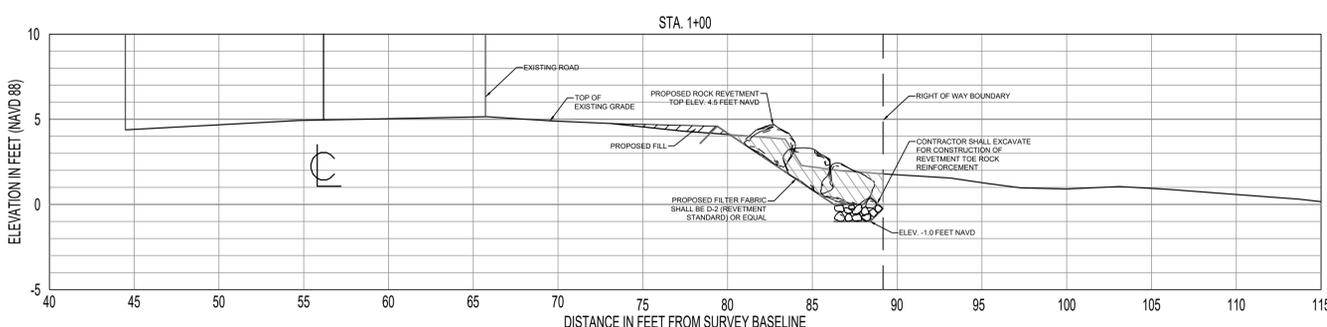
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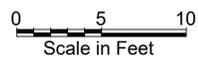
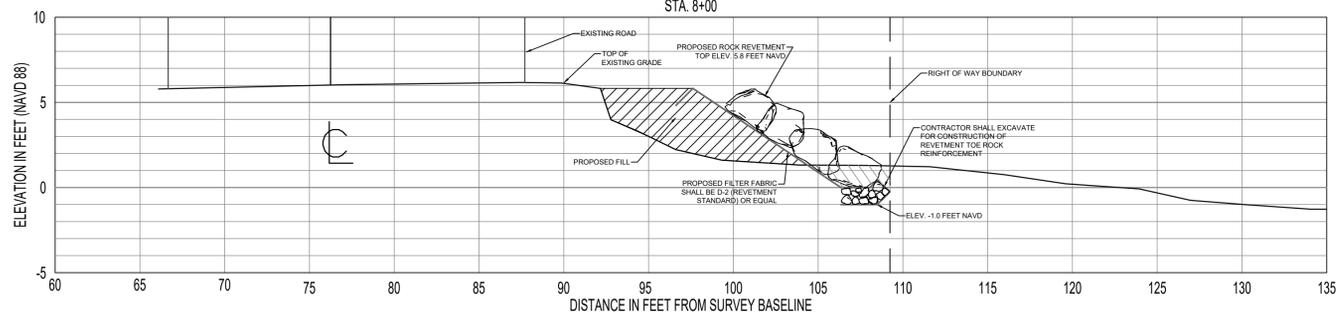
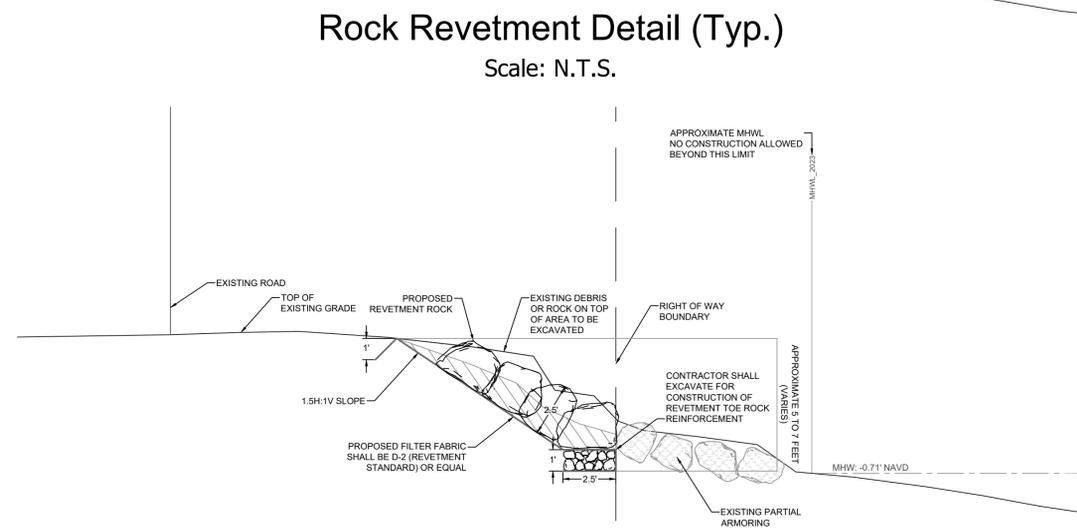
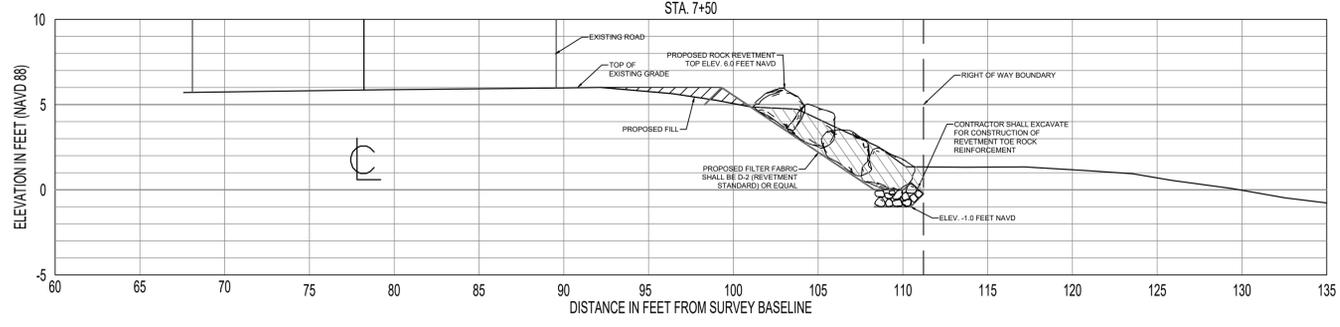
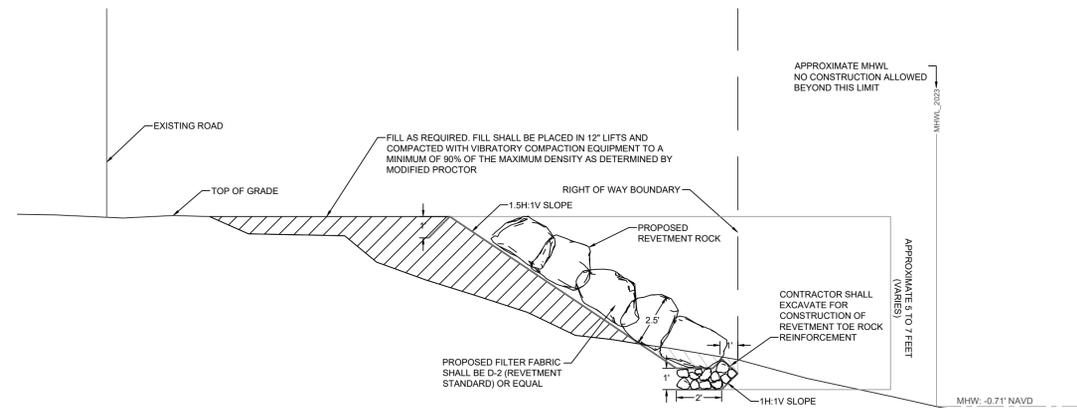
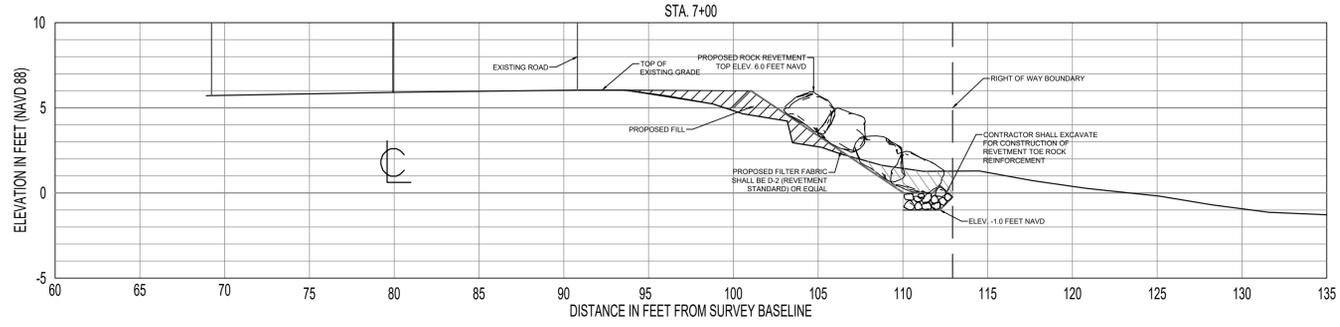
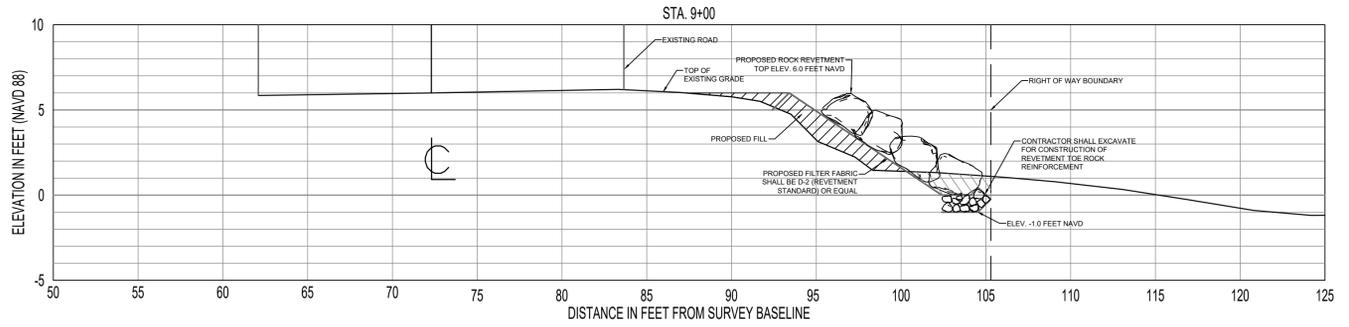
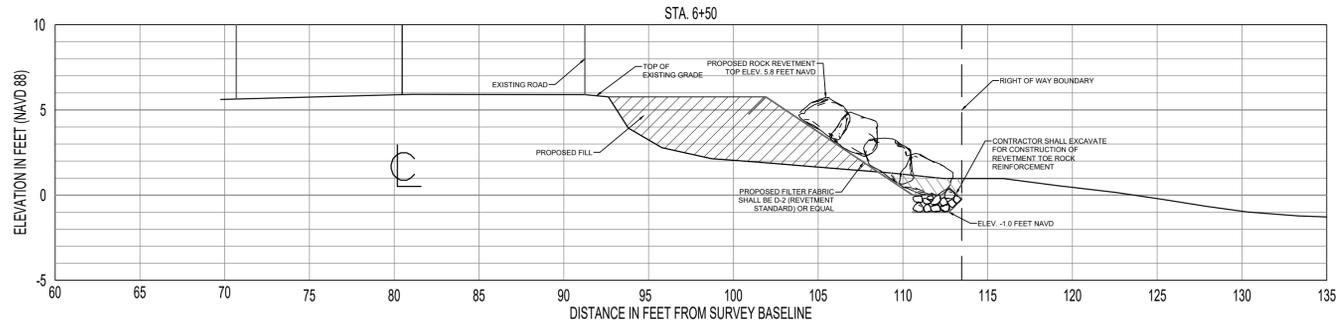
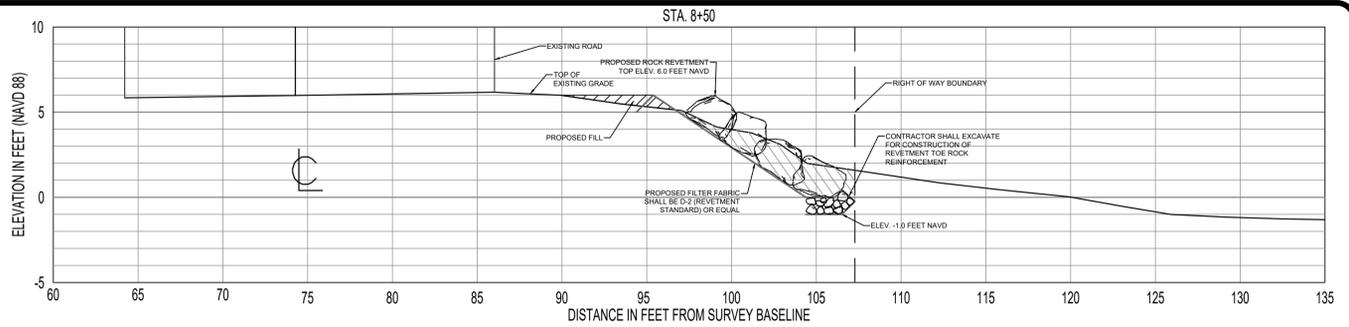
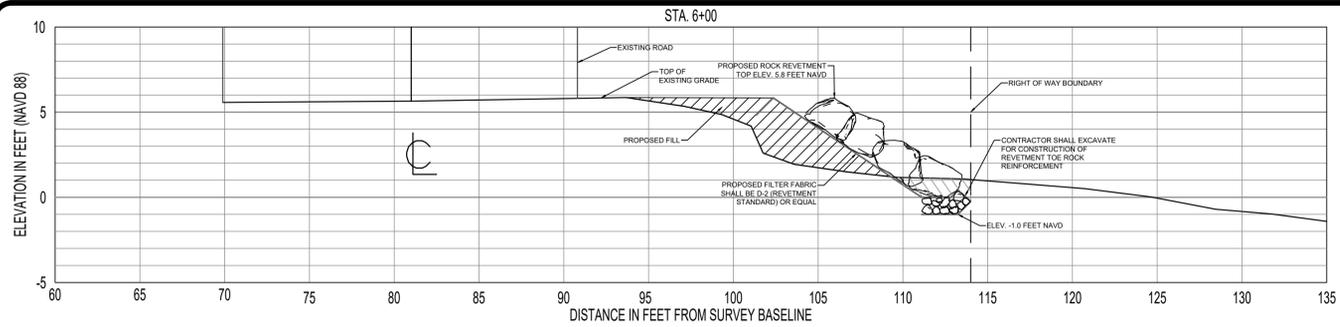
Site 1 - Elevation Profiles - STA. 1+00 - 5+50

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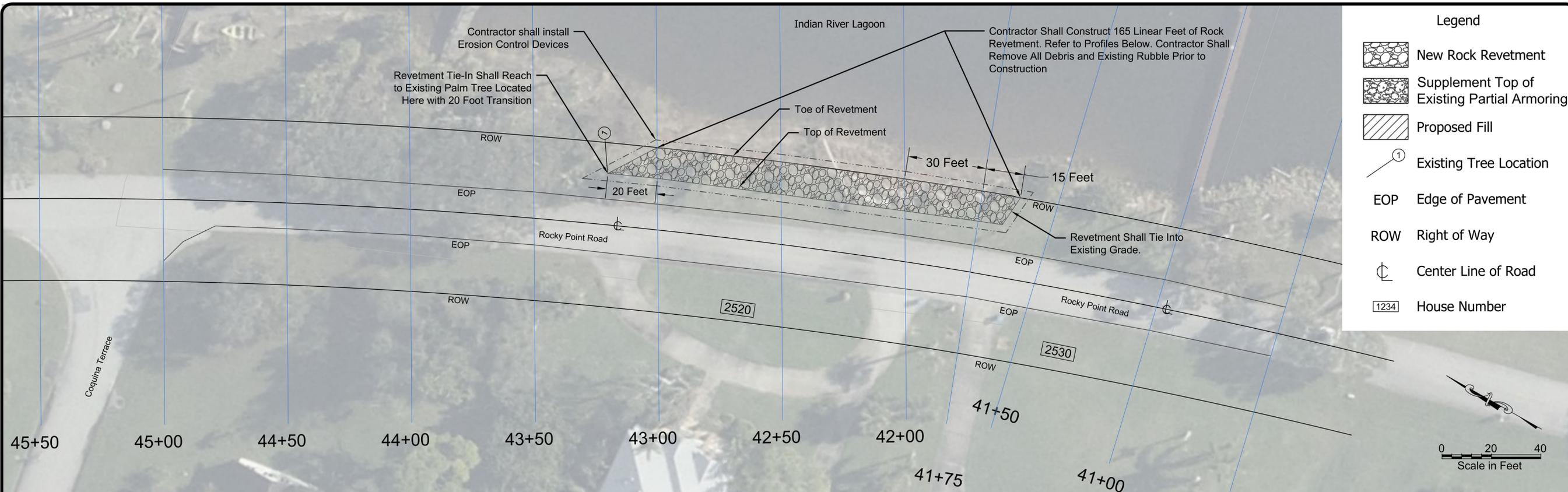
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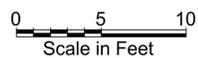
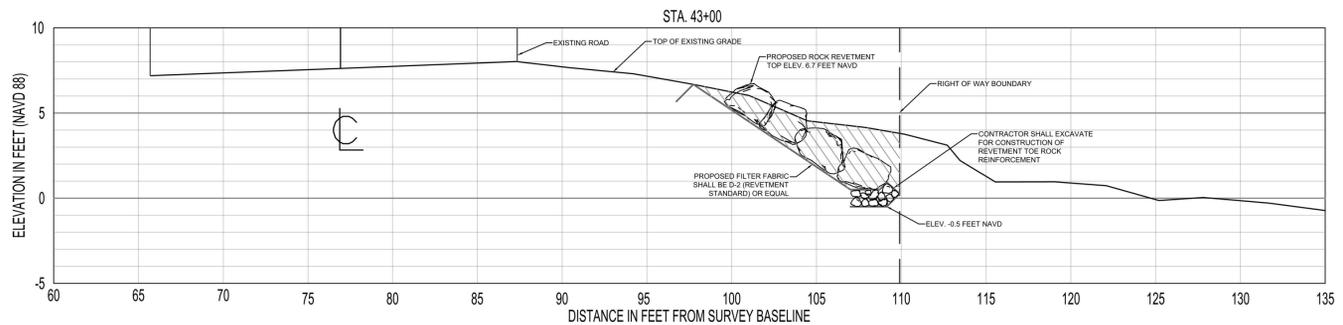
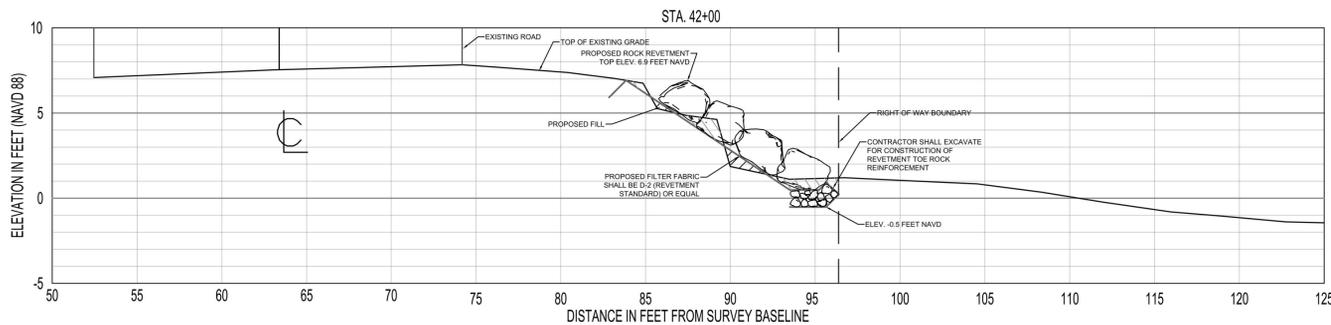
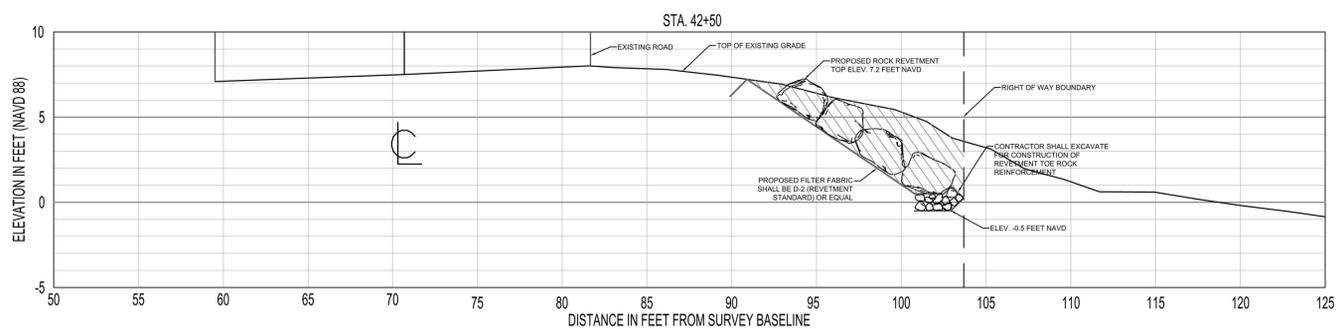
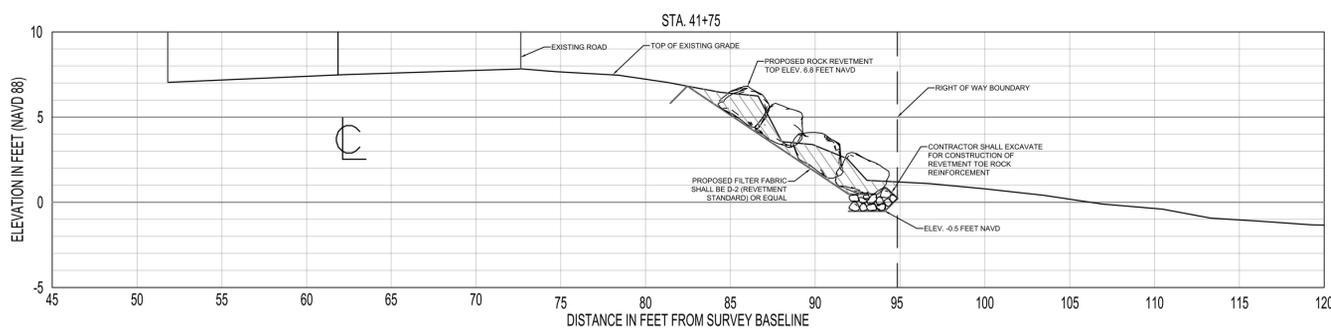
Site 1 - Elevation Profiles - STA. 6+00 - 9+00 and Details

Drawn By	BP
Review	SWB
Date	8/31/2023
Scale	AS NOTED
Project Number	2062301
Sheet Number	



Survey Data: Oceanside Solutions (January 12, 16-19, 2023)
 Aerial Photo: National Oceanic and Atmospheric Administration (November 15, 2022)

Plan View - Site 2



NOTE:
ALL PROJECT WORK TO BE ABOVE MEAN HIGH WATER LINE (MHWL), EL: -0.71 NAVD88. NO EXCAVATION SHALL OCCUR BELOW THE MEAN HIGH WATER LINE.

STEPHEN W. BOEHNING, P.E. DATE
 FL. P.E. NO. 52201

REVISIONS	BY
10/27/2023	SWB

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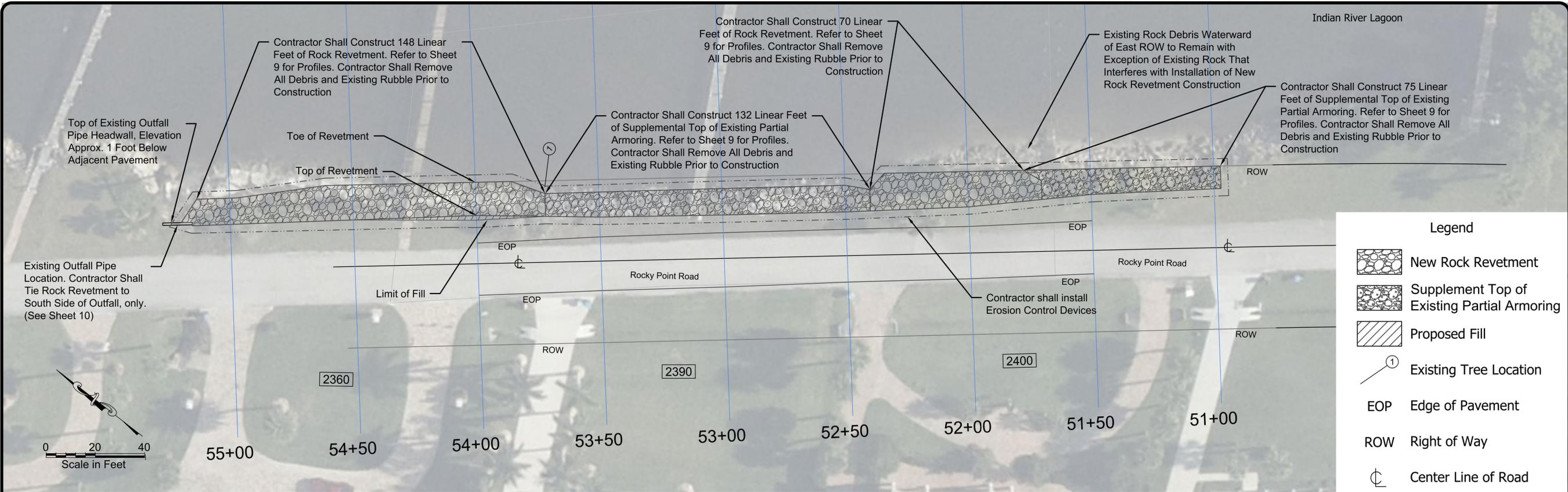
**Rocky Point Road Shoreline Stabilization
 for Town of Malabar**

Site 2 Site Plan and Elevation Profiles - STA. 51+00-55+00

Drawn By
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 SWB
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 8/31/2023
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 Project Number
 2062301
 Sheet Number

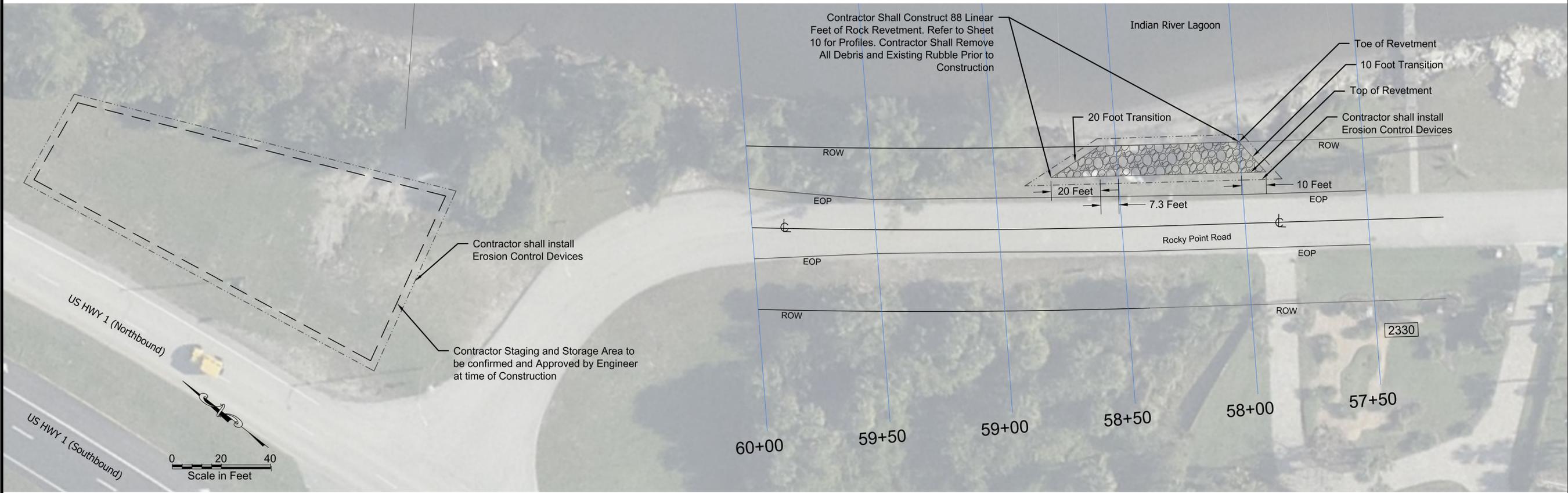
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2062301



Plan View - Site 3

- NOTE:
1. Contractor Shall Remove All Existing Granite and Coquina within this "New Rock Revetment Area" and Relocate to Adjacent "Supplement" Areas.
 2. Contractor Shall Remove and Dispose of All Existing Concrete and Debris



Plan View - Site 4

Survey Data: Oceanside Solutions (January 12, 16-19, 2023)
 Aerial Photo: National Oceanic and Atmospheric Administration (November 15, 2022)

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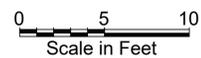
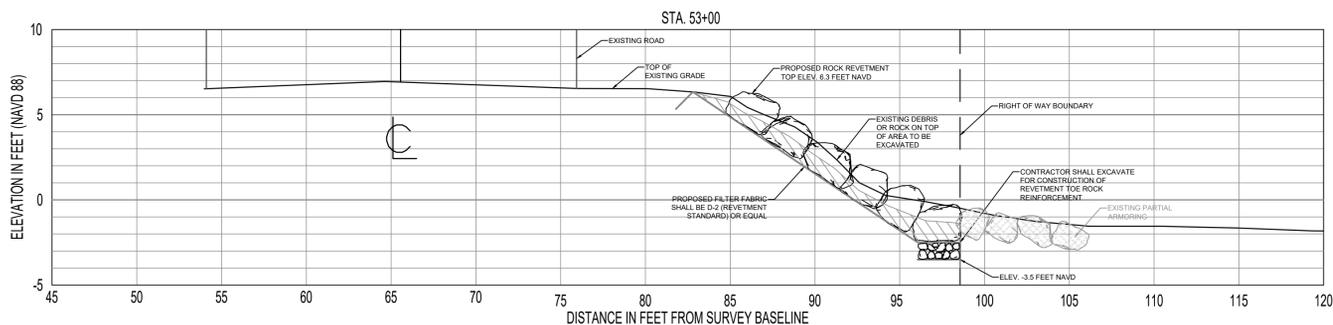
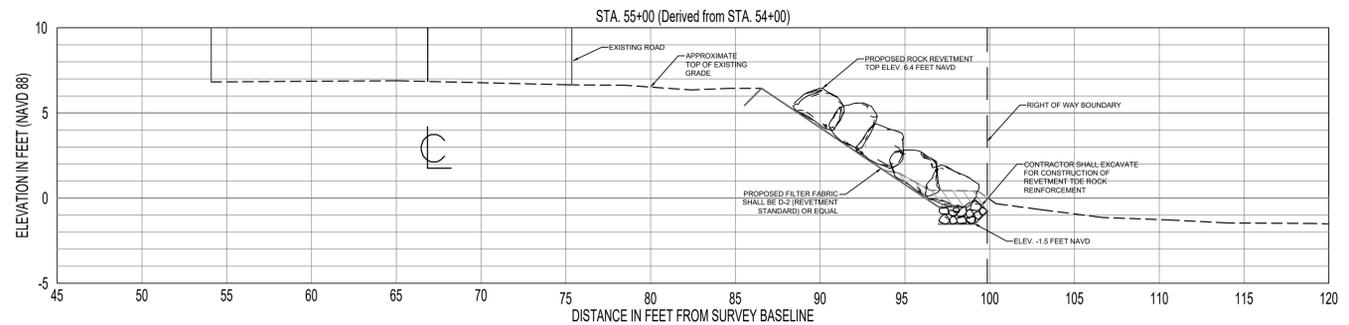
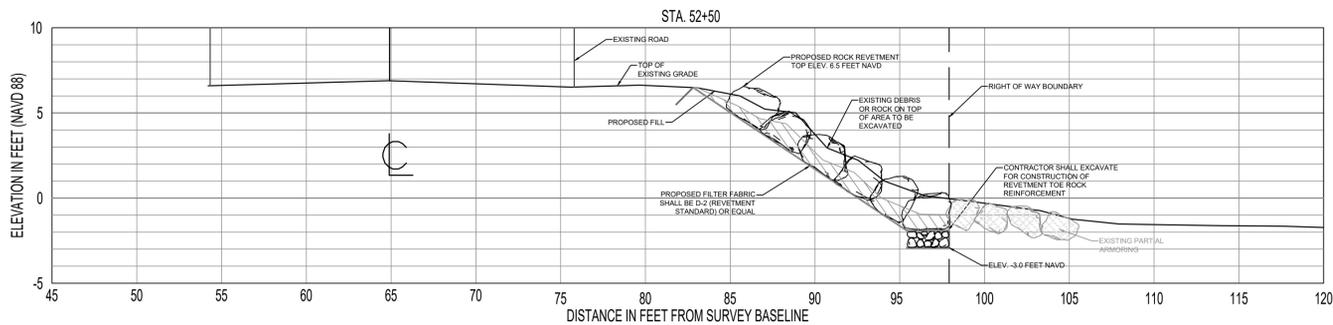
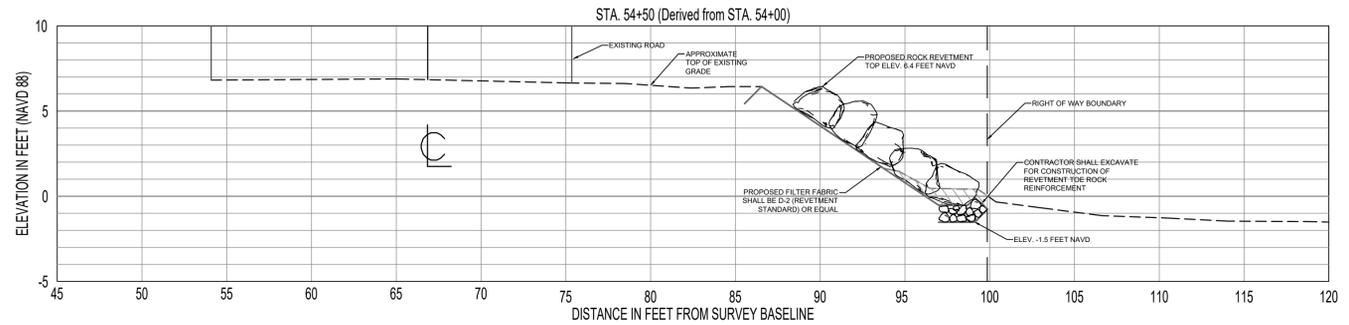
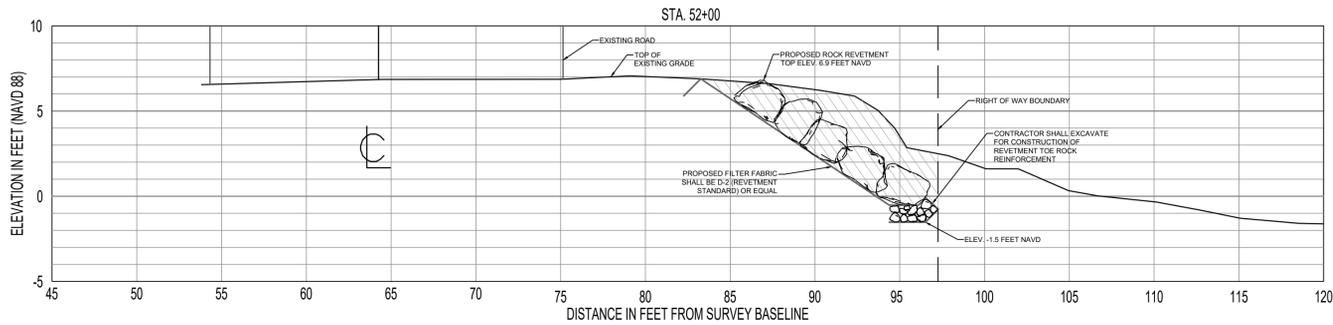
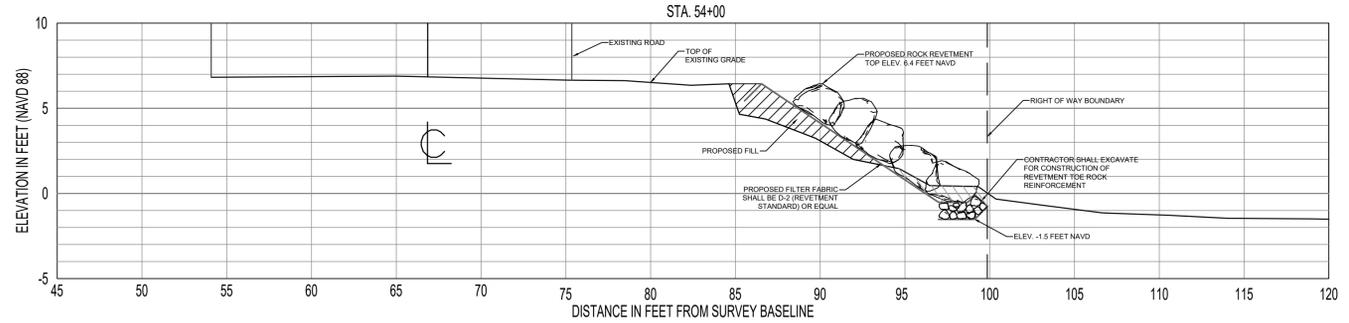
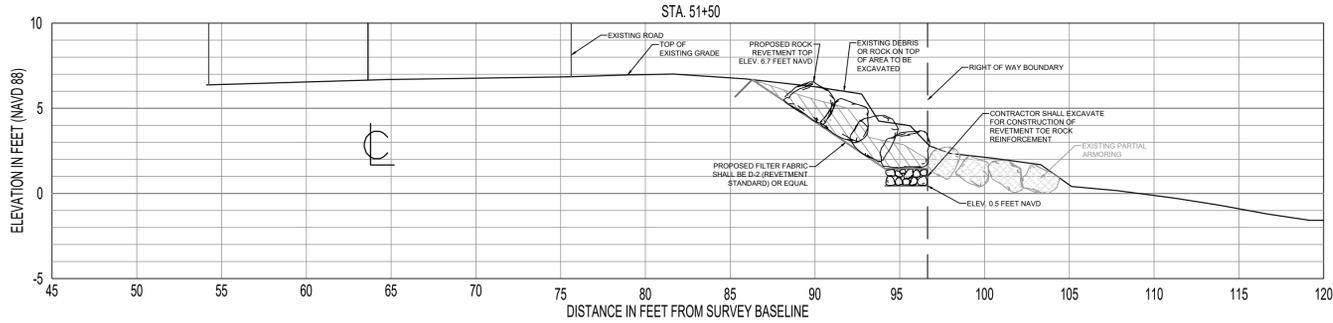
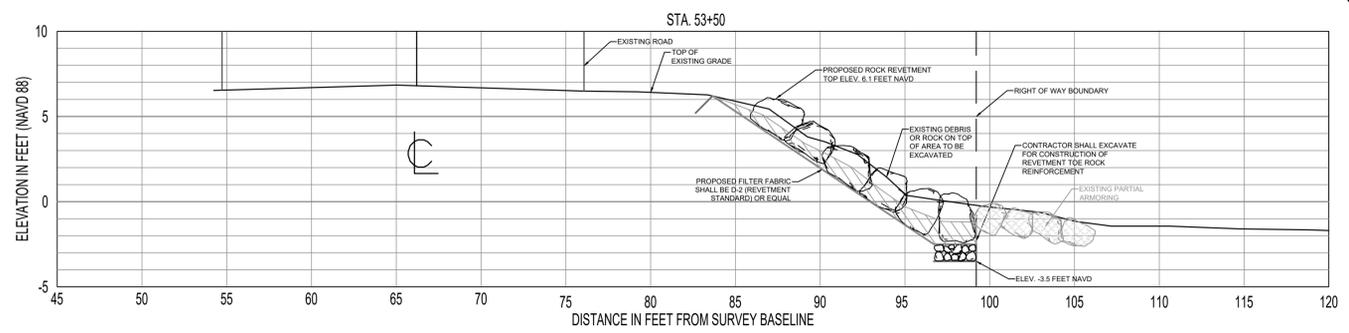
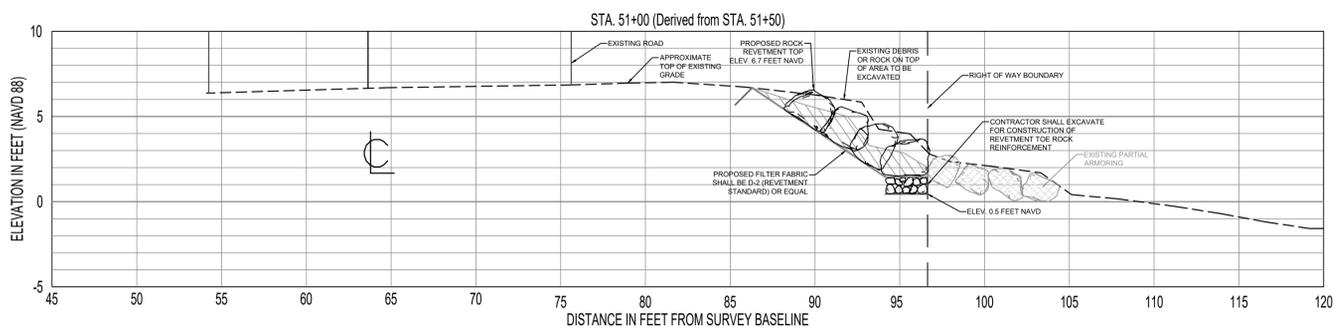
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Rocky Point Road Shoreline Stabilization
 for Town of Malabar

Site 3 and 4 Site Plan

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STEPHEN W. BOEHNING, P.E. DATE
 FL. P.E. NO. 52201



NOTE:

1. Contractor Shall Remove and Dispose of any Non-Coquina and Non-Granite Material Including Concrete Debris and Material Deemed to be Insufficient Size per Engineer.

NOTE:

ALL PROJECT WORK TO BE ABOVE MEAN HIGH WATER LINE (MHWL), EL: -0.71 NAVD88. NO EXCAVATION SHALL OCCUR BELOW THE MEAN HIGH WATER LINE.

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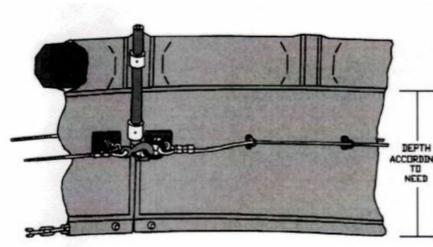
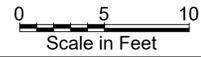
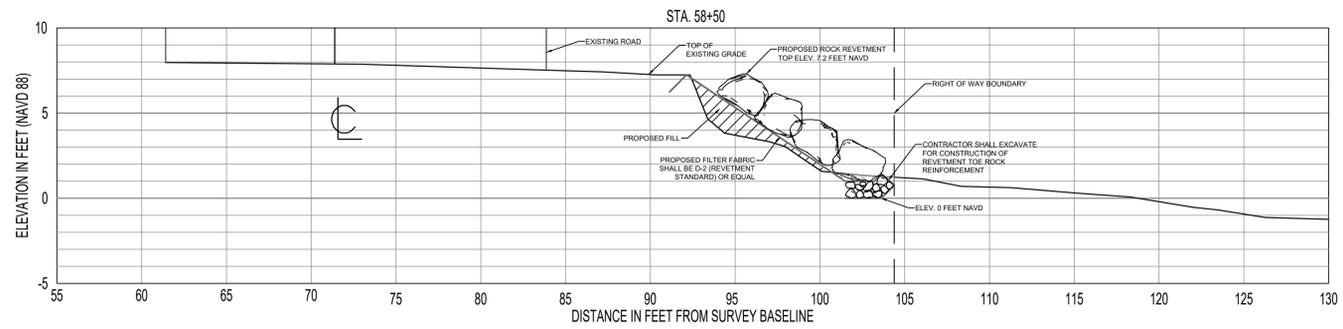
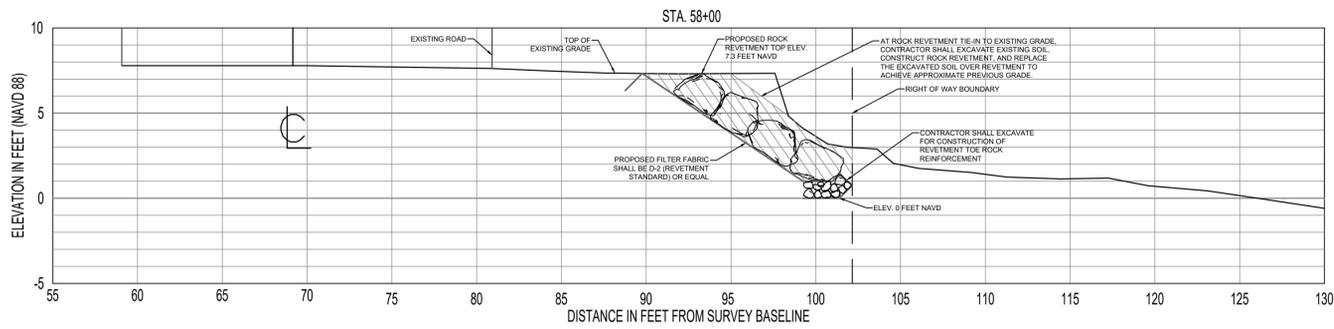
**Rocky Point Road Shoreline Stabilization
for Town of Malabar**

Site 3 - Elevation Profiles - STA. 51+00-55+00

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Review	SWB
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Typical Floating Turbidity Curtain Detail

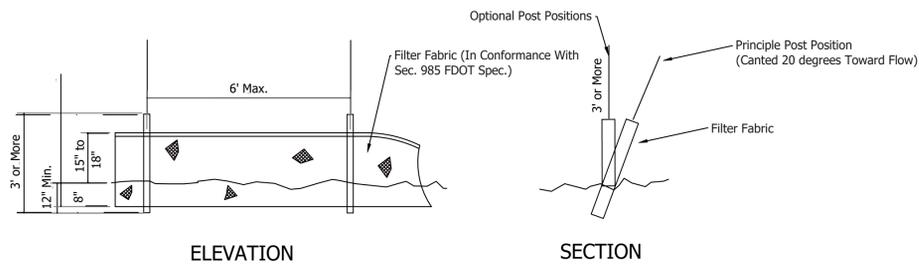
Scale: N.T.S.

Specifications:

- Fabric:** High Strength Nylon Reinforced Vinyl, High Visibility Yellow, 22 oz./Yd Weight
- Connector:** Snap Hooks and Rings Connect Load Lines with Slotted Reinforced PVC Pipe for Fabric Closure. Optional Extruded Aluminum Connectors.
- Flotation:** 12" Expanded Polystyrene Over 29 lbs/ft Bouyancy.
- Ballast:** 5/16" Galvanized Chain (1.1 lbs/ft.)
- Load Lines:** Dual 5/16" Galvanized Wire Ropes with Heavy Vinyl Coating.

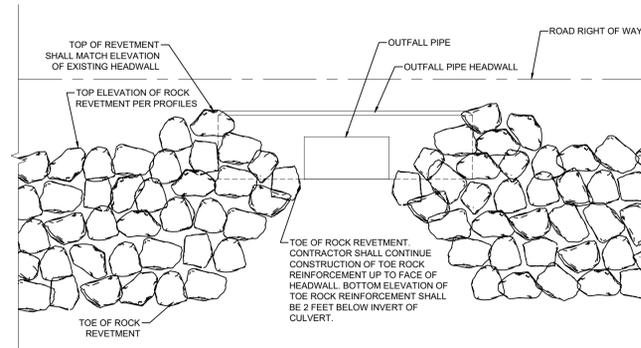
Notes to Contractors:

1. If turbidity extends beyond the barriers, construction must cease until turbidity levels return to normal levels.
2. Double turbidity barriers must be placed prior to construction around pier.
3. Turbidity curtains are to remain in place for a period of time not less than seven (7) days after work has been completed and turbidity levels are equal to or below background N.T.U. Levels.



Silt Fence Detail

Scale: N.T.S.



Isometric View Rock Revetment at Outfall Pipe Location (Typ.)

Scale: N.T.S.

NOTE:
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Site 4 - Elevation Profiles - STA. 58+00 - 58+50 and Details

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