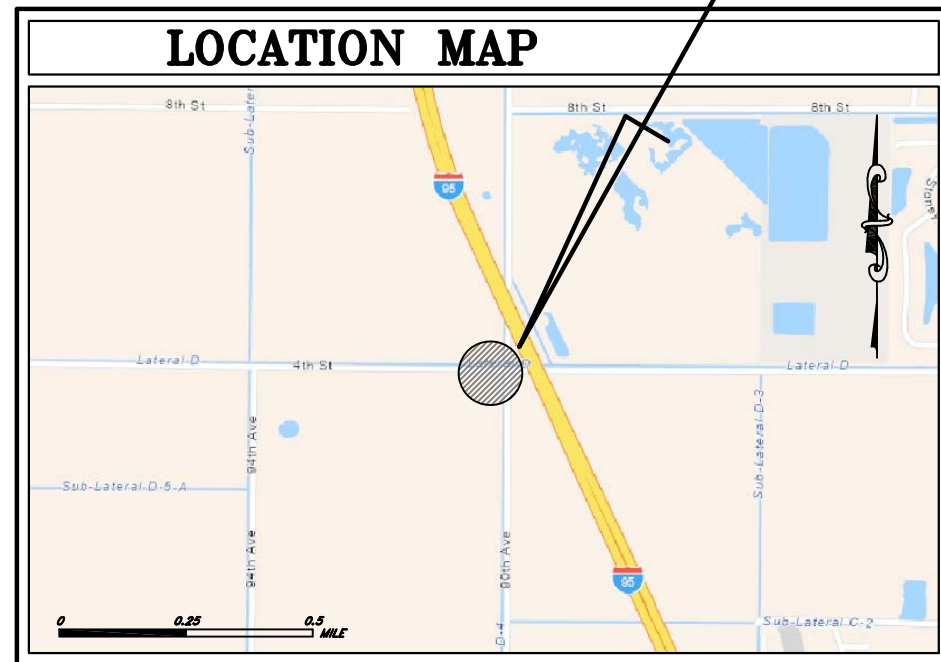


**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
4th STREET CULVERT REPLACEMENT
AT 90th AVENUE
COUNTY PROJECT IRC-2022**

LOCATION OF PROJECT



SHEET INDEX	
1	<i>COVER SHEET</i>
2	<i>STANDARD ABBREVIATIONS</i>
3	<i>NOTES & DETAILS</i>
4	<i>SUMMARY OF QUANTITIES</i>
5	<i>PLAN AND PROFILE</i>
6-7	<i>SWPPP</i>

PLAN REVISION SUMMARY

**PREPARED BY
INDIAN RIVER COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION**

1801 27TH STREET, VERO BEACH, FLORIDA 32960

**GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
"FY 2020-2021 STANDARD PLANS FOR ROAD
CONSTRUCTION" AND "STANDARDS
SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION" (JANUARY 2020 EDITION), AS
AMENDED BY CONTRACT DOCUMENTS.**

JOSEPH E. FLESCHER, CHAIRMAN
PETER D. O'BRYAN, VICE CHAIRMAN
COMMISSIONER SUSAN ADAMS
COMMISSIONER JOE EARMAN
COMMISSIONER LAURA MOSS
COUNTY ADMINISTRATOR, JASON E. BROWN
PUBLIC WORKS DIRECTOR: RICHARD B. SZPYRKA, P.E.
ASSISTANT PUBLIC WORKS DIRECTOR: JAMES W. ENNIS, P.E., PMP

AASHTO American Association of State Highway and Transportation Officials
 Abd. Abandoned
 AC or Asph. Conc. Asphaltic Concrete
 Adj. Adjust
 Al Aluminum
 Approx. Approximate
 Asph. Asphalt
 ASTM American Society for Testing Materials
 Ave. Avenue

 B/C, B.C. Back of Curb
 BCCMP Bituminous Coated Corrugated Metal Pipe
 BE Buried Electric
 Beg. Begin
 Bk. Back
 BL, BLC Base Line, Base Line Control
 Bldg. Building
 Blvd. Boulevard
 BM Benchmark
 Brg. Bearing
 BT Buried Telephone Cable or Duct

 C & G Curb and Gutter
 CAP Corrugated Aluminum Pipe
 CATV Cable Television
 CB Catch Basin
 CBC Concrete Box Culvert
 CBS Concrete Box Structure
 CD Cross Drain
 CI Cast Iron
 CIP Cast Iron Pipe
 CIPL Cast in Place
 Cl. or Clear Clearance
 CL, C/L or \mathcal{L} Center Line
 CM Concrete Monument
 CMP Corrugated Metal Pipe
 CMPA Corrugated Metal Pipe Arch
 Co. County or Company
 Con. Connect or Connection
 Conc. Concrete
 Const. Construct or Construction
 Contr. Contractor
 Coord. Coordinate
 Cor. Corner
 CP Concrete Pipe
 Culv. Culvert
 CY Cubic Yard

 D Degree of Curvature
 DBI Ditch Bottom Inlet
 Dept. Department
 DT Ditch
 Dia. or D Diameter
 DIP Ductile Iron Pipe
 DOT Department of Transportation
 Dr. or DR. Drive
 Drwy. Driveway
 Dwg. Drawing

E El. or Elev.
 Elec. Electric
 Engr. Engineer
 EOP Edge of Pavement
 Eq. Equation or Equal
 ERCP Elliptical Reinforced Concrete Pipe
 Esmt. Easement
 Est. or Estm. Estimate
 EW Endwall
 Exc. or Excav. Excavation
 Exist. Existing

 F or Final Final Quantity
 FDOT Florida Department of Transportation
 FE Floor Elevation
 FH Fire Hydrant
 FM Force Main
 FOC Fiber Optics Cable

 GM Gas Main
 GPS Global Positioning System
 Gr. Grade, Guardrail or Gate

 Hdwl. Headwall
 Hndrl. Handrail
 Hse. House
 Hwy. Highway

 I.R.F.W.C.D. Indian River Farms Water Control District
 Inv. Invert
 IP Iron Pipe

 L Length, Length of Curve, Left
 LBR Limerock Bearing Ratio
 LF Linear Foot/Feet
 Lt. Left

 Max. Maximum
 MES Mitered End Section
 MH Manhole
 MPH or mph Miles Per Hour

 N North
 NA or N/A Not Applicable
 N & C Nail & Cap
 NGVD National Geodetic Vertical Datum of 1929
 NIC Not in Contract
 NTS Not to Scale

 OC or O.C. On Center
 OE Overhead Electric
 OH Overhead

East Elevation
 Electric Electric
 Engineer Engineer
 Edge of Pavement Edge of Pavement
 Equation or Equal Equation or Equal
 Elliptical Reinforced Concrete Pipe Elliptical Reinforced Concrete Pipe
 Easement Easement
 Estimate Estimate
 Endwall Endwall
 Excavation Excavation
 Existing Existing

 Final Quantity Final Quantity
 Florida Department of Transportation Florida Department of Transportation
 Floor Elevation Floor Elevation
 Fire Hydrant Fire Hydrant
 Force Main Force Main
 Fiber Optics Cable Fiber Optics Cable

 Gas Main Gas Main
 Global Positioning System Global Positioning System
 Grade, Guardrail or Gate Grade, Guardrail or Gate

 Headwall Headwall
 Handrail Handrail
 House House
 Highway Highway

 Indian River Farms Water Control District Indian River Farms Water Control District
 Invert Invert
 Iron Pipe Iron Pipe

 Length, Length of Curve, Left Length, Length of Curve, Left
 Limerock Bearing Ratio Limerock Bearing Ratio
 Linear Foot/Feet Linear Foot/Feet
 Left Left

 Maximum Maximum
 Mitered End Section Mitered End Section
 Manhole Manhole
 Miles Per Hour Miles Per Hour

 North North
 Not Applicable Not Applicable
 Nail & Cap Nail & Cap
 National Geodetic Vertical Datum of 1929 National Geodetic Vertical Datum of 1929
 Not in Contract Not in Contract
 Not to Scale Not to Scale

 On Center On Center
 Overhead Electric Overhead Electric
 Overhead Overhead

P or Plan P or Plan
 Pavt. Pavement
 PC Point of Curvature
 PCC Point of Compound Curvature
 PE Professional Engineer
 PERF. Perforated
 PGL Profile Grade Line
 PI Point of Intersection
 PL or \mathcal{L} Property Line
 PP Power Pole
 PRC Point of Reverse Curvature
 Proj. Project
 PRM Permanent Reference Monument
 PSI or psi Pounds Per Square Inch
 PT Point of Tangency
 PVC Polyvinyl Chloride
 PVI Point of Vertical Intersection

 R or Rad. Radius
 R or Rng. Range
 RCP Reinforced Concrete Pipe
 RCPA Reinforced Concrete Pipe Arch
 Rd. Road
 Req. or Reqd. Required
 Res. Residence
 RR Railroad
 Rt. Right
 R/W, ROW Right of Way

 S South
 SAN or San. Sanitary
 SD Side Drain, Storm Drain
 Sect. Section
 Sht. Sheet
 Shldr. Shoulder
 Spec. Specification
 Sq. Ft., SF or S.F. Square Foot
 Sq. Yd., SY or S.Y. Square Yard
 SR or S.R. State Road
 SS Sanitary Sewer
 St. or ST. Street
 Sta. Station
 SW or Swk. Sidewalk

 T Tangent
 T, TWP or Twp. Township
 TBM Temporary Bench Mark
 TCE Temporary Construction Easement
 Tel. Telephone
 Typ. Typical

 UG Underground
 Util. Utilities

 VC Vertical Curve

 W West
 WM Water Main

 Xsec. Cross Section

Plan Quantity
 Pavt. Pavement
 PC Point of Curvature
 PCC Point of Compound Curvature
 PE Professional Engineer
 PERF. Perforated
 PGL Profile Grade Line
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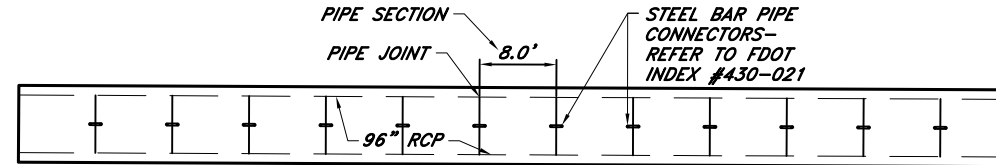
 W West
 WM Water Main

 Xsec. Cross Section

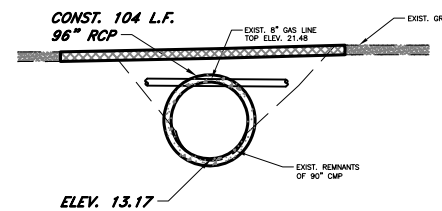
GENERAL NOTES:

- ELEVATIONS - ALL ELEVATIONS AND BENCHMARK INFORMATION REFER TO THE NORTH AMERICAN VERTICAL DATUM, 1988.
- ANY GOVERNMENTAL LAND CORNER OR SURVEY MONUMENTATION WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY: INDIAN RIVER COUNTY SURVEYOR - DAVID SCHRYVER (772) 226-1386
- FOR FURTHER UTILITY COORDINATION CONTACT:

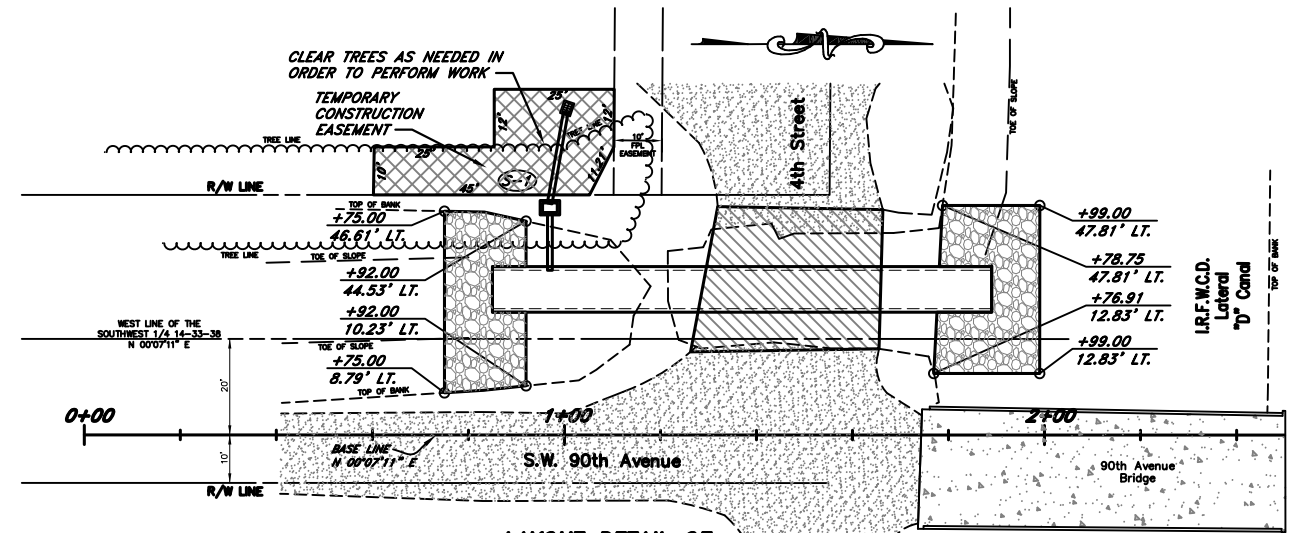
<p>OWNER A&T COMCAST FIBERNET DIRECT/CROWN CASTLE FIBER FLORIDA GAS TRANSMISSION COMPANY FLORIDA POWER & LIGHT FLORIDA PUBLIC UTILITIES INDIAN RIVER COUNTY TELECOMMUNICATIONS INDIAN RIVER COUNTY TRAFFIC INDIAN RIVER COUNTY UTILITIES INDIAN RIVER FARMS WATER CONTROL DISTRICT NEXTERA ENERGY</p>	<p>CONTACT LUKE FOLKERTS (321) 953-6172 TONY SPRINGSTEEL (561) 804-0973 ANDY POINKANS (561) 365-9001 JOSEPH SANCHEZ (407) 838-7171 ROB MORRIS (772) 223-4215 DOUG MORELAND (561) 366-1635 RYAN FRANKLIN (772) 226-1528 ERIK FERGUSON (772) 226-1568 JOHN BOYER (772) 226-1823 DAVID GUNTER (772) 562-2141 ELIO BUSTOS (305) 835-3618</p>
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- PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.
- THE CONTRACTOR SHALL CALL "SUNSHINE STATE ONE-CALL" AT 1-800-432-4770, 48 HOURS PRIOR TO DIGGING FOR FIELD LOCATION OF UNDERGROUND UTILITIES.
- THE SEQUENCE OF CONSTRUCTION SHALL BE THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND THAT ARE BENEATH THE PAVEMENT SHALL BE IN PLACE AND HAVE PROPER DENSITY PRIOR TO PAVEMENT CONSTRUCTION.
- EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER AND SHALL CONFORM TO ALL APPLICABLE CITY, COUNTY, STATE OR FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED PRIOR TO INITIATING WORK.
- ALL CHANGES SHALL BE APPROVED IN WRITING BY THE ENGINEER.
- THE BASELINE AS SHOWN IN THE PLANS IS FOR INFORMATIONAL PURPOSES ONLY.
- ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



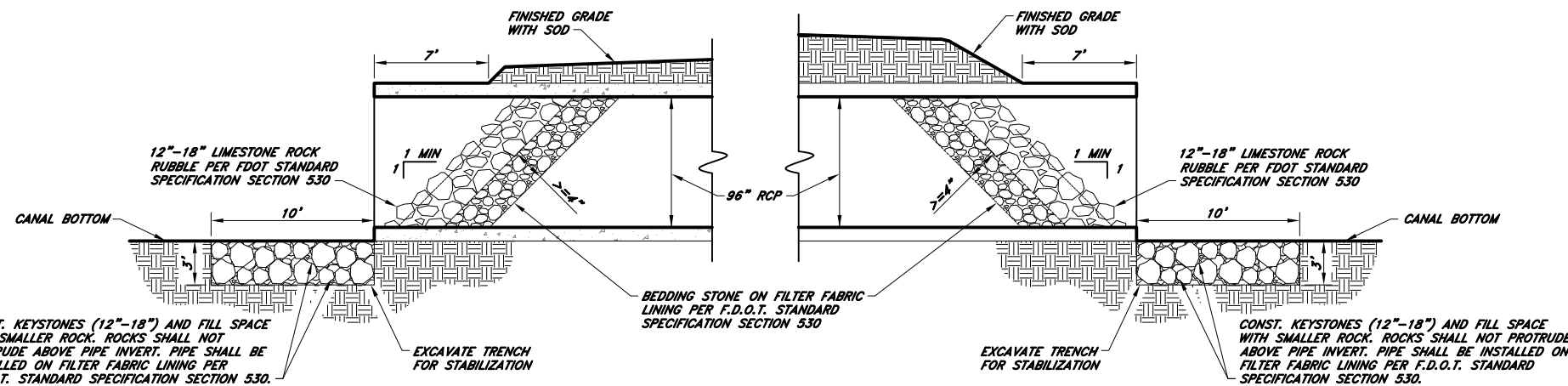
**DETAIL
STEEL BAR PIPE CONNECTORS
SCALE: 1"=20'**



**CONFLICT DETAIL OF 96" RCP
AT THE 8" GAS LINE
SCALE: 1"=20'
(GAS LINE TO BE RELOCATED
BY OTHERS)**



**LAYOUT DETAIL OF
RUBBLE RIP-RAP
SCALE: 1"=40'**



**SECTION A-A OF RUBBLE RIP-RAP
(DITCH LINER & PIPE LINER)
SCALE: 1"=10'**

No.	Revision	Date	By	INDIAN RIVER COUNTY 1801 27th STREET VERO BEACH, FL 32960 (772) 567-8000	 Department of Public Works Engineering Division	DESIGNED BY: J. ENNIS, P.E.	SECTION 15 TOWNSHIP 33S RANGE 38E FIELD BOOK NO. PAGE STANTON 4 15-24	DATE: 10/8/2020 COUNTY PROJECT NO. IRC-2022	4th STREET CULVERT REPLACEMENT NOTES & DETAILS	SHEET 3 OF 7
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ITEM NO.	DESCRIPTION	UNITS	ESTIMATED QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-1	PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
104-2	DEWATERING	LS	1
110-1-1	CLEARING AND GRUBBING	LS	1
120-1	REGULAR EXCAVATION	LS	1
120-6	EMBANKMENT	LS	1
160-4	TYPE B STABILIZATION (12" THICK, LBR 40)	SY	121
285-706	OPTIONAL BASE (COQUINA SHELL, 12" THICK, LBR 100)	SY	121
425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	1
430-174-112	PIPE CULVERT, ROUND, 12" SD (RCP)	LF	32
430-175-196	PIPE CULVERT, ROUND, 96" S/CD (RCP)	LF	104
530-3-3	RIPRAP, RUBBLE, F&I, BANK AND SHORE	TN	250
530-3-4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN	40
570-1-2	PERFORMANCE TURF, SOD (BAHIA)	SY	250
999-1	AS-BUILT DRAWING (BY REGISTERED SURVEYOR)	LS	1

PAY ITEM FOOTNOTES

101-1 MOBILIZATION INCLUDES THE COST OF BONDS AND ANY REQUIRED INSURANCE AND ANY OTHER PRECONSTRUCTION EXPENSE NECESSARY FOR THE START OF THE WORK, EXCLUDING THE COST OF CONSTRUCTION MATERIALS. THE COST OF AS-BUILT DRAWINGS SHALL BE INCLUDED IN THIS PAY ITEM.

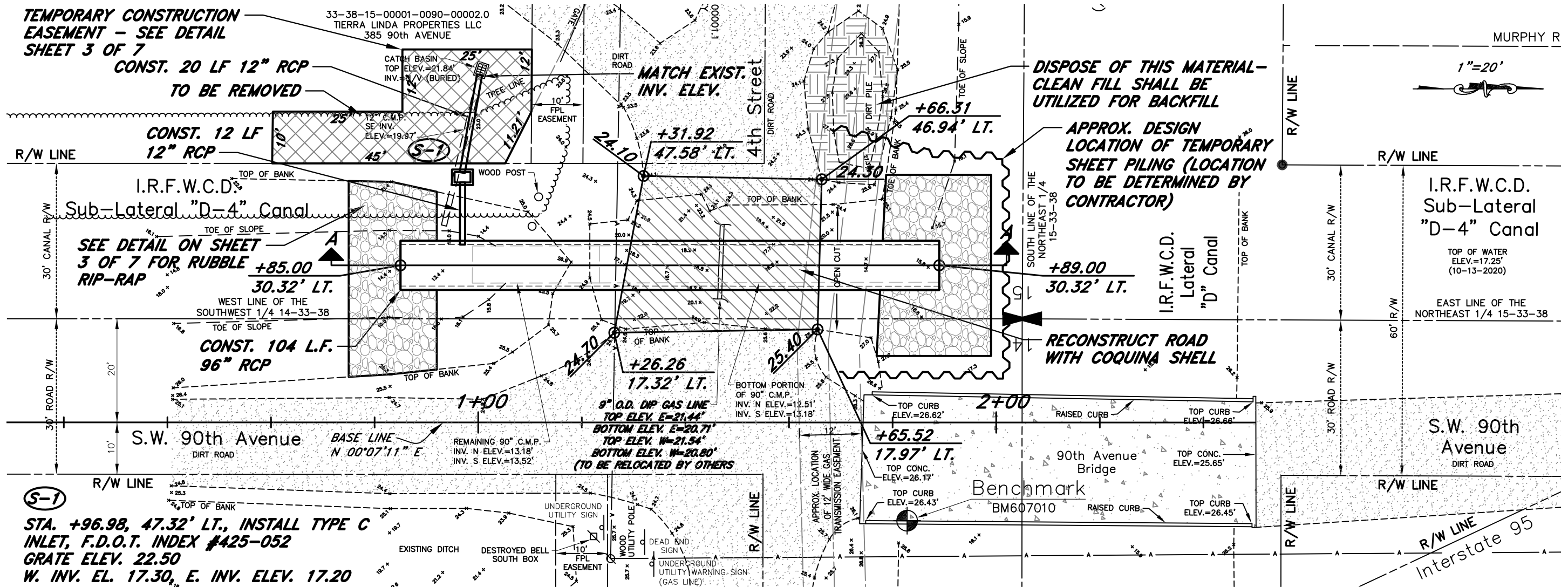
102-1 INCLUDES VERTICAL PANELS, ATTENUATORS, SIGNS, MESSAGE BOARDS, BARRICADES, AND ALL OTHER INCIDENTAL TRAFFIC ITEMS REQUIRED FOR THE MAINTENANCE OF TRAFFIC. COST TO BE INCLUDED WITHIN THIS ITEM.

104-2 INCLUDES ALL COSTS ASSOCIATED WITH THE INSTALLATION AND REMOVAL OF TEMPORARY CHECK DAMS, BY-PASS PUMPING, SHEET PILING AND THE REQUIREMENTS OF THE INDIAN RIVER FARMS WATER CONTROL DISTRICT PERMIT NO. 21-07. NO CHECK DAMS WILL BE ALLOWED IN THE INDIAN RIVER FARMS WATER CONTROL DISTRICT SUB-LATERAL "D-4" CANAL.

110-1-1 INCLUDES BUT NOT LIMITED TO VEGETATION & TOPSOIL REMOVAL AND/OR REMOVAL OF EXISTING PAVEMENT, THE REMOVAL OF EXISTING GUARDRAIL AND THE REMOVAL OF EXISTING PIPES CULVERTS, HEADWALLS AND/OR STRUCTURES. WHERE EXISTING PIPES ARE REMOVED AND THE EXISTING STRUCTURE REMAINS, THE RESULTING HOLE SHALL BE FORMED AND FILLED WITH CONCRETE. INCIDENTAL CONSTRUCTION COSTS INCLUDING, SURVEY STAKING, NPDES PERMITTING, AND UTILITY COORDINATION ARE INCLUDED IN THE UNIT COST OF RELATED ITEMS.

430-175-196 THE BOX CULVERT SHALL BE LAID IN A DRY DITCH, NO DRAIN ROCK SHALL BE ALLOWED UNDER THE PIPE OR IN THE EXCAVATION.

TEMPORARY CONSTRUCTION EASEMENT - SEE DETAIL SHEET 3 OF 7



S-1
 STA. +96.98, 47.32' LT., INSTALL TYPE C INLET, F.D.O.T. INDEX #425-052
 GRATE ELEV. 22.50
 W. INV. EL. 17.30, E. INV. ELEV. 17.20

DISPOSE OF THIS MATERIAL - CLEAN FILL SHALL BE UTILIZED FOR BACKFILL

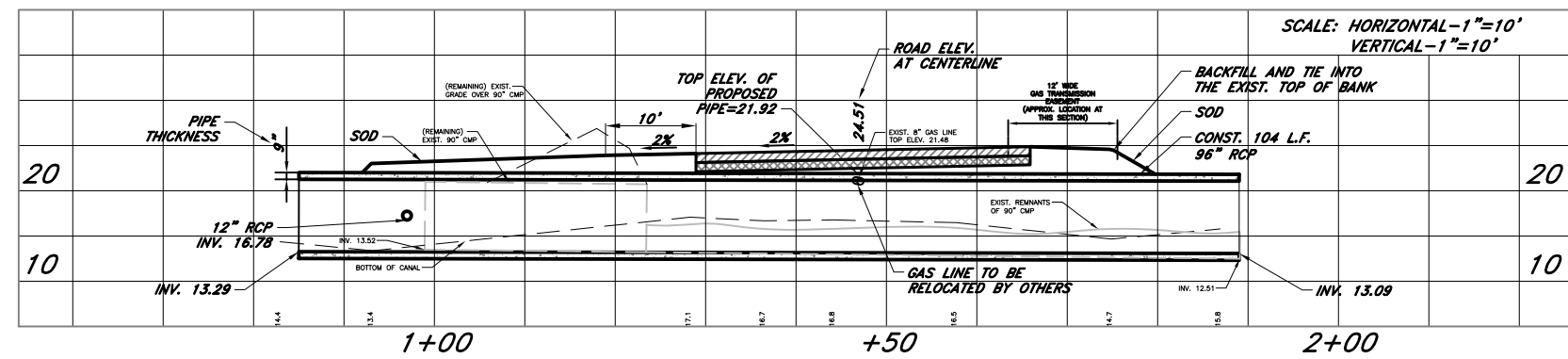
APPROX. DESIGN LOCATION OF TEMPORARY SHEET PILING (LOCATION TO BE DETERMINED BY CONTRACTOR)

RECONSTRUCT ROAD WITH COQUINA SHELL

T.B.M. - BM607010
 SET MAG NAIL & DISC, "I.R. COUNTY TBM" IN TOP OF CONCRETE RUBRAIL AT SOUTHEAST CORNER OF BRIDGE; 12' EAST OF THE CENTERLINE OF 90th AVENUE; 25' NORTH OF THE CENTERLINE OF 4th STREET ELEV.=27.05' (NAVD 88)

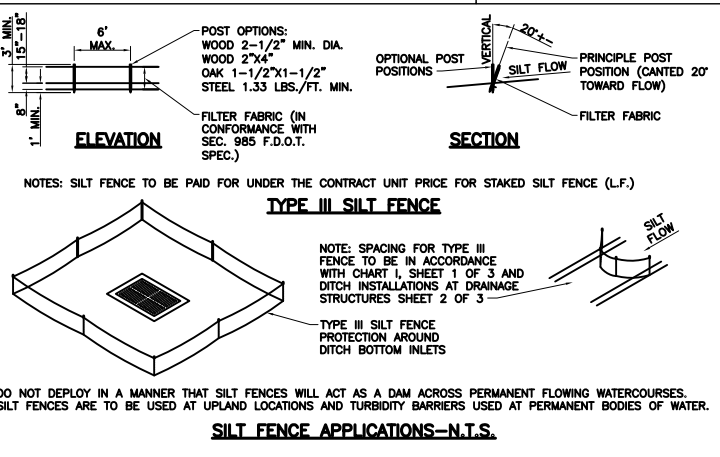
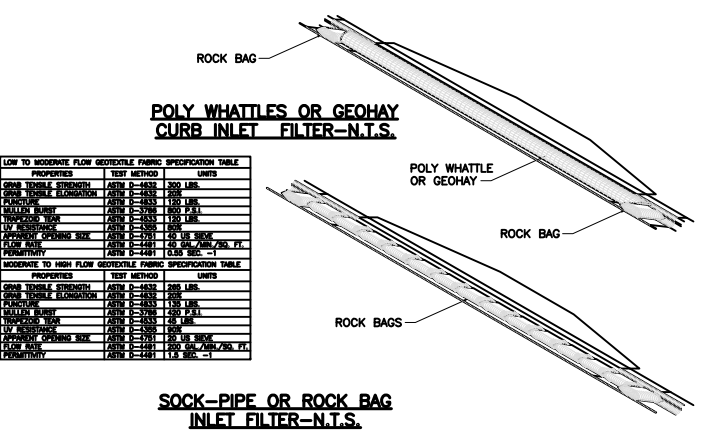
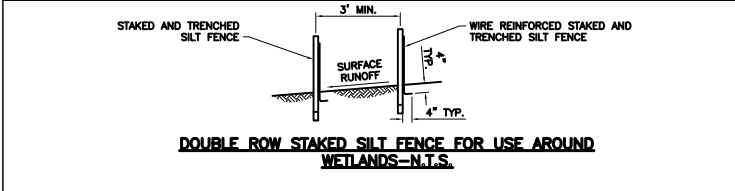
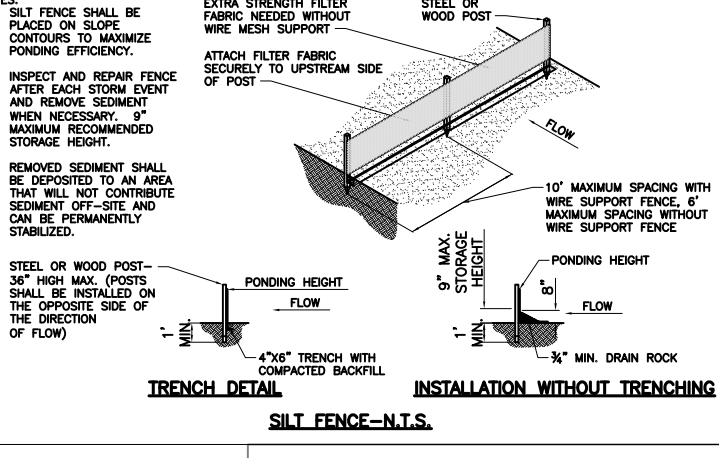
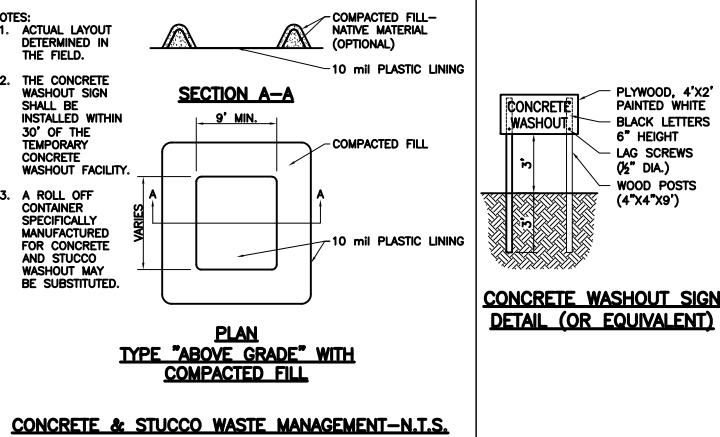
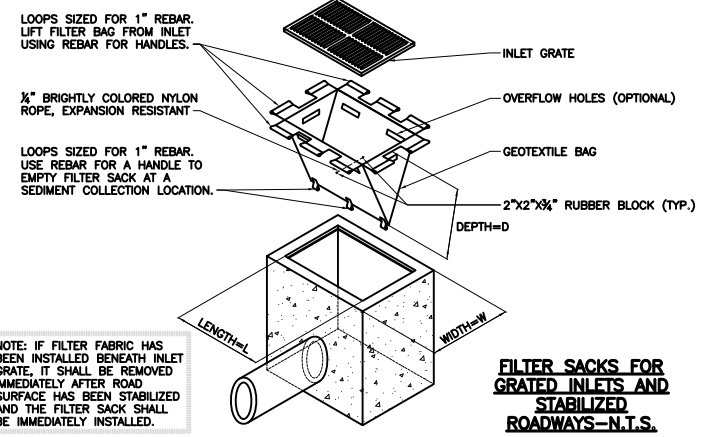
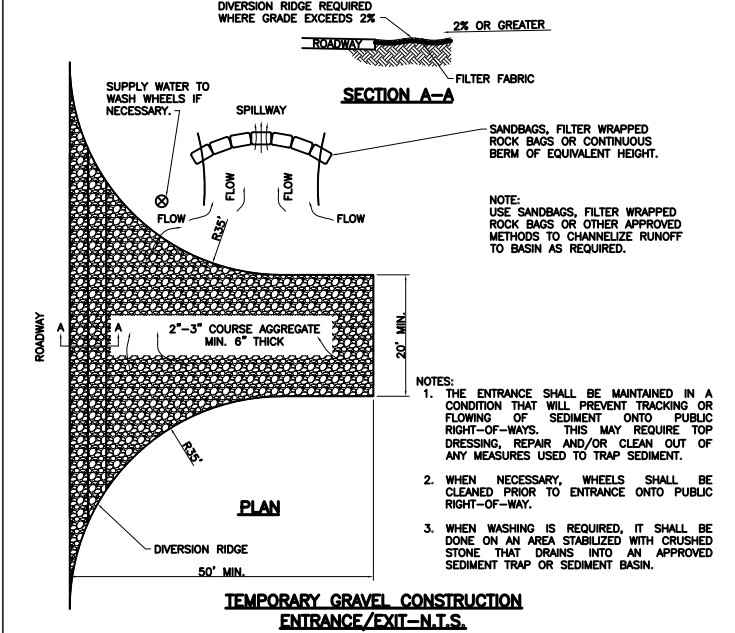
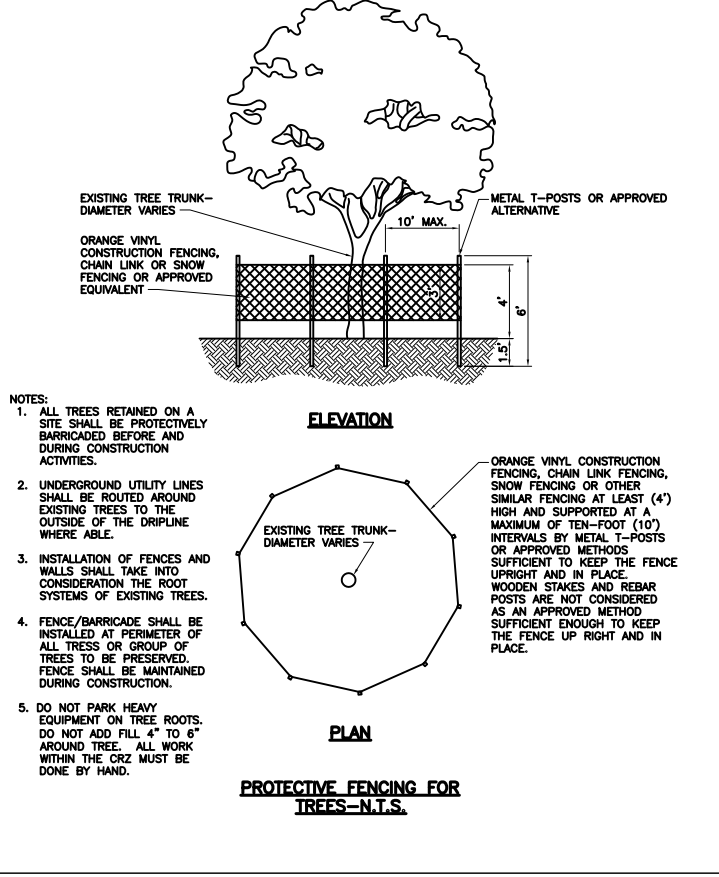
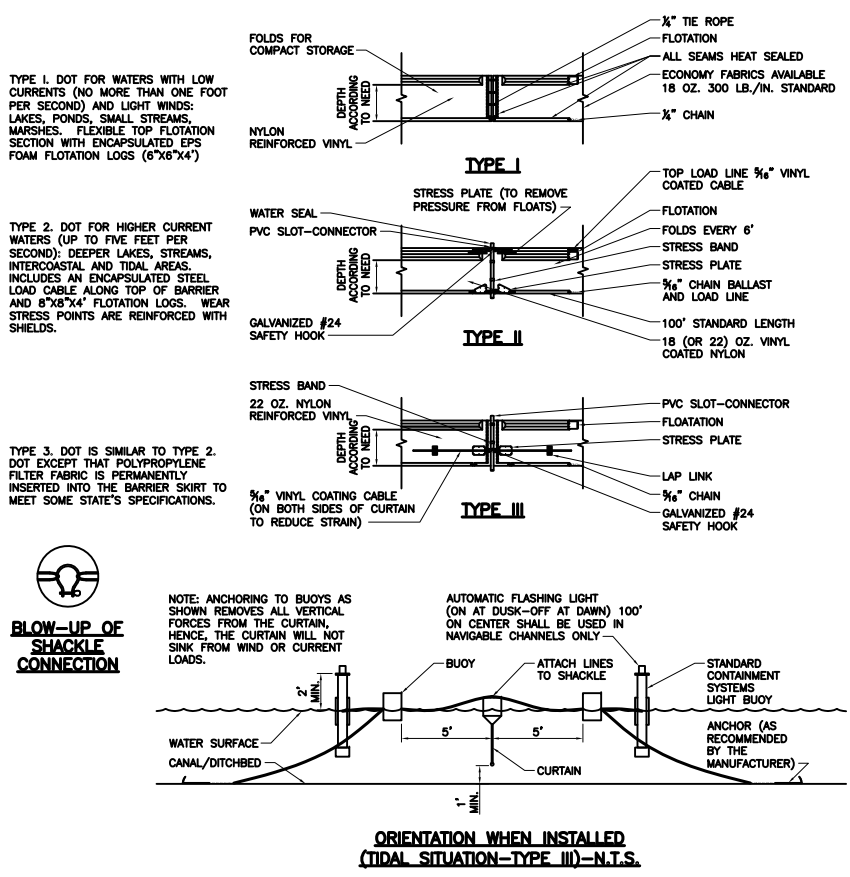
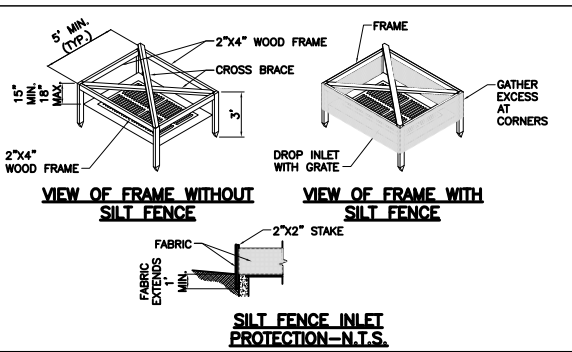
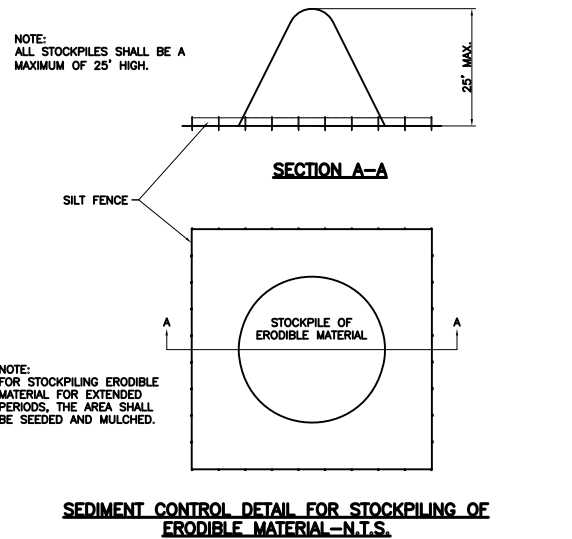
- NOTES:**
1. BYPASS PUMPING OF THE SUB-LATERAL "D-4" CANAL WILL BE REQUIRED.
 2. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

- LEGEND**
- DIRT ROAD
 - ▨ COQUINA SHELL (12" THICK, LBR 100)
 - ▤ TYPE B STABILIZATION (12" THICK, LBR 40)



EROSION CONTROL NOTES

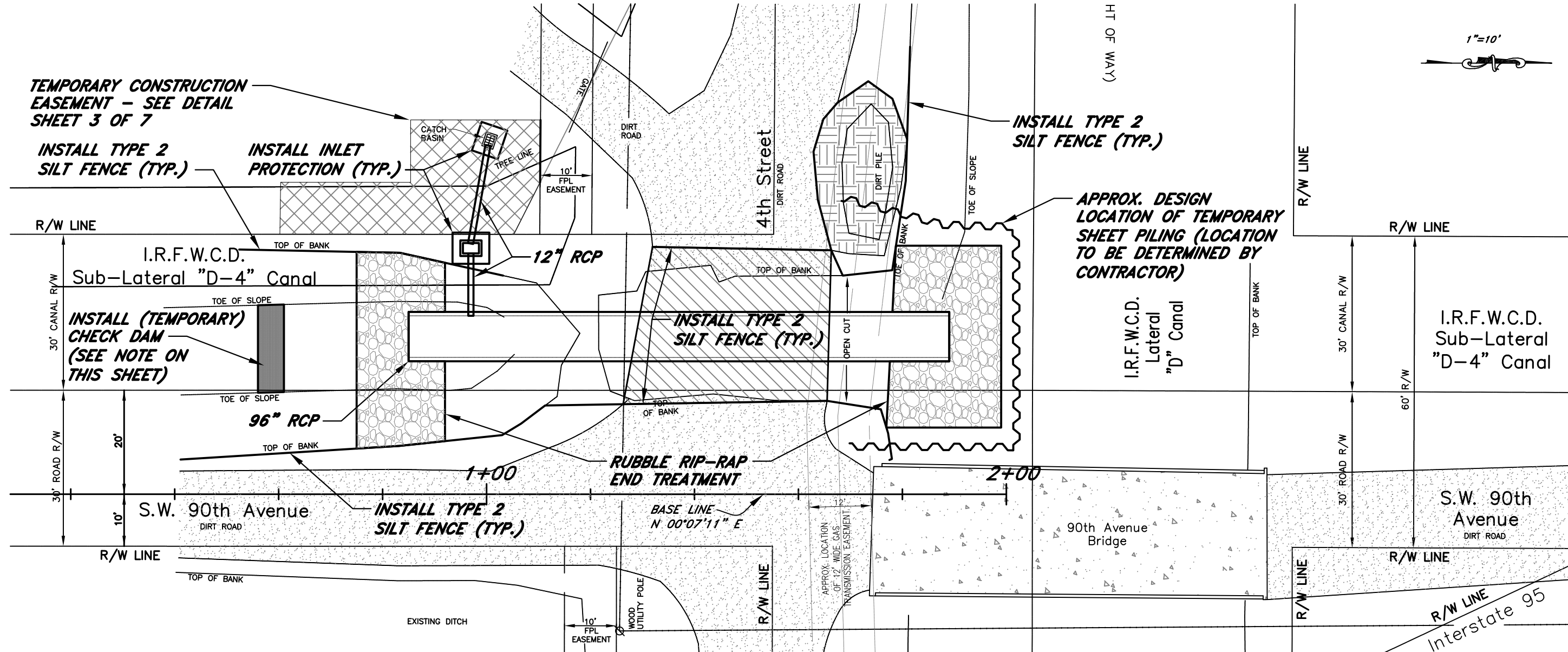
- Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land disturbing activity and shall be made functional before up-slope land disturbance takes place.
- All sediment control measures are to be adjusted to meet field conditions at the time of construction and be constructed prior to any grading or disturbance of existing surface material on balance of site. Perimeter sediment barriers shall be constructed to prevent sediment or trash from flowing or floating on to adjacent properties.
- Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven (7) days to denuded areas that may not be at final grade but will remain undisturbed for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left undisturbed for more than one year.
- During construction of the project, soil stock piles shall be stabilized, covered or contained with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as soil intentionally transported from the project site.
- A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized.
- After any significant rainfall, sediment control structures will be inspected for integrity. Any damaged devices shall be corrected immediately.
- Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume, slope drain structure or approved control.
- Sediment will be prevented from entering any storm water system, ditch or channel. All storm water inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.
- When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction.
- Periodic inspection and maintenance of all sediment control structures must be provided to ensure intended purpose is accomplished. The developer, owner and/or contractor shall be continuously responsible for all sediment controls. Sediment control measures shall be in working condition at the end of each working day.
- Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment by tracking onto the paved surface. Where sediment is transported onto a public road surface with curbs and gutters, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual subdivision lots as well as to larger land disturbing activities.
- All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed.
- Properties and waterways downstream from construction sites shall be protected from sediment deposition and erosion at all times during construction.
- Erosion control design and construction shall follow the applicable requirements of the "State of Florida Erosion and Sediment Control Designer and Reviewer Manual", Latest Update: July 2013", or current edition and as may be modified by the Project Engineer of Record via a signed and sealed drawing and as required by Indian River County permits and other regulatory agency permits.
- Contractor is responsible for all surface water discharges, rainfall run off or dewatering activities.
- Contractor must incorporate all BMP's necessary to meet or exceed state water quality and SWPPP requirements.
- The Pollution Prevention Plan is a minimum guideline only. Additional BMP's may be necessary at contractor's expense.
- NOI to be posted on site.
- Dewatering activities:
 - A - Discharge must not exceed state water quality standards.
 - B - Contractor must have a transferable SURFACED Consumptive Use permit known as a "Noticed General Permit For Short Term Construction De-Watering".
 - C - No hydraulic pumps may be used for dewatering unless approved by the water management district for that area.
 - D - No turbid discharge. Turbidity readings are required once a week and must be reported to the project Engineer.
- Failure to develop and implement a certified stormwater pollution prevention plan shall be deemed a violation of the permit and the permittee shall be subject to enforcement action. The plan shall be completed prior to the submittal of an NOI (Notice of Intent) to be covered under the permit and updated as appropriate. The plan shall also provide for compliance with the terms and schedule of the plan beginning with the initiation of the construction activities.




NOTE

- THIS PLAN SHEET SHALL NOT BE CONSIDERED A SWPPP (STORMWATER POLLUTION PREVENTION PLAN) BUT IS A PLAN REPRESENTATIVE OF THE MINIMUM REQUIRED BMP'S (BEST MANAGEMENT PRACTICES).
- THE SWPPP SHALL BE COMPLETED PRIOR TO THE SUBMITTAL OF THE NOTICE OF INTENT (NOI) TO BE COVERED UNDER THE DEPARTMENT'S GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.

1"=10'



NOTE: THE MATERIAL USED FOR THE TEMPORARY CHECK DAM SHALL BE SANDY SOILS COMPATIBLE WITH THE EXISTING MATERIAL OF THE CANAL AND SHALL CONTAIN NO CLAY SOILS. THIS IS REQUIRED TO MEET THE REQUIREMENT OF ZERO (0) N.T.U.s (NEPHELOMETRIC TURBIDITY UNITS) ALLOWABLE ABOVE BACKGROUND PER STATE T.M.D.L. (TOTAL MAXIMUM DAILY LOAD) REQUIREMENTS.

No.	Revision	Date	By	INDIAN RIVER COUNTY 1801 27th STREET VERO BEACH, FL 32960 (772) 567-8000	 Department of Public Works Engineering Division	DESIGNED BY: J. ENNIS, P.E.	SECTION 15	DATE: 10/8/2020	4th STREET CULVERT REPLACEMENT	SHEET 7 OF 7
						DRAWN BY: K. P. HANSEN	TOWNSHIP 33S	COUNTY PROJECT NO. IRC-2022		
						APPROVED BY: J. ENNIS, P.E.	FIELD BOOK NO. STANTON 4	PAGE 15-24	SWPPP	