PALM BEACH COUNTY **BOARD OF COUNTY COMMISSIONERS**

AGENDA ITEM SUMMARY

Meeting Date:	June 20, 2017	[X] Consent [] Ordinance		Regular Public Hearing
Department: Submitted By: Submitted For:	Engineering & Pu Engineering & Pu Roadway Product	ıblic Works		
	<u>l. E</u>)	XECUTIVE BRIEF		
Motion and Title the City of West City's "M" Canal.		ends motion to receiver the Seminole Pratt W		
County (County) was issued to the	for filing in the puble County by the City	ibmitted to the Clerk & ic records as stipulated and addresses the wid 'M" Canal. <u>District 6</u> (L	l in the lening o	license. The license
widened by the Seminole Pratt V	Seminole Improven Whitney Road as a 4 f the "M" Canal. The	The County's bridge over ment District as part of 4 lane divided roadway e City requires issuance	of their from S	project to construct eminole Ridge High
Attachments: 1. Location Map 2. License				
Recommended	by:	ent Director		<u> </u>
Approved By:	Assistant	County Administrato	or	6/ _{1/19} Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2017	2018	2019	2020	2021
Capital Expenditures	\$ -0-				<u>-0-</u>
Operating Costs					
External Revenues	-0-	0	0		<u>-0-</u>
Program Income (County)	-0-	-0-			
In-Kind Match (County)	-0-	-0-			
NET FISCAL IMPACT	\$ **				
# ADDITIONAL FTE					
POSITIONS (Cumulative)					

Is Item Included in Current Budget? Yes No

Budget Acct No.: Fund___ Dept.__ Unit__ Object Program

Recommended Sources of Funds/Summary of Fiscal Impact:

**This item has no fiscal impact.

C.	Departmental Fiscal Review:	•	Muchovalaenen	
				

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

	gette lul-3/27/17	
140 5/23	OFMB & 5/23	-

B. Approved as to Form and Legal Sufficiency:

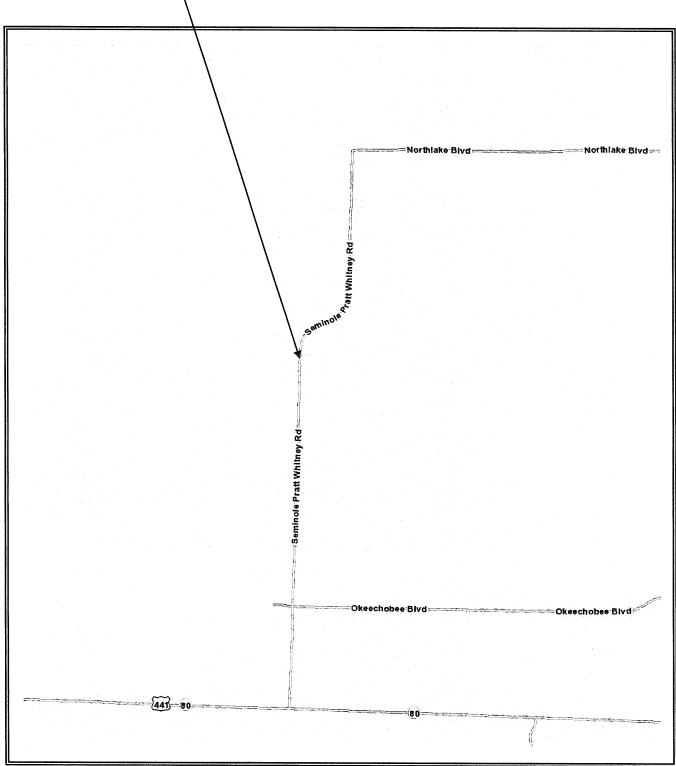
317-/ Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.





LOCATION MAP

Record & Return to:
Howard J. Falcon III, Esq.
Chief Assistant County Attorney
Palm Beach County
P.O. Box 1989
West Palm Beach, FL 33402

City of West Palm Beach

LICENSE FOR SEMINOLE PRATT WHITNEY ROAD CROSSING(S)

PERMITTEE: PALM BEACH COUNTY, FLORIDA, a political subdivision of the State of Florida (the "County");

LOCATION OF CROSSING: Property owned by the City of West Palm Beach bordering and crossing the M-Canal at Seminole Pratt Whitney Road, as shown on the engineering drawings titled Seminole Pratt-Whitney Road Bridge over "M" Canal prepared by Bridge Design Associates, Inc. (now acquired by Wantman Group, Inc.), and signed and sealed on November 30, 2016. The legal description and sketch showing the location of said crossing were prepared by the County and are attached hereto and incorporated as **Exhibit A** (the "Licensed Property").

WHEREAS, the City of West Palm Beach is the owner of the Water Catchment Area located in Palm Beach County, Florida (the "Water Catchment Area") for public water supply purposes and for environmental, educational and conservation purposes, pursuant to the Special Laws of the Florida Legislature, Ch. 67-2169 ("the Special Act"), as amended; and the Water Catchment Area serves as a natural surface water supply source for the City of West Palm Beach and has been designated as a Class I potable water supply protected by State and Federal laws; and the M-Canal is part of the City's Water Catchment Area; and

WHEREAS, this License is granted in accordance with the Interlocal Agreement Between Palm Beach County and the City of West Palm Beach Regarding M-Canal Crossings for bridge widening and pedestrian crossings at Seminole Pratt Whitney Road, dated February 3, 2015 (the "Interlocal Agreement");

WHEREAS, neither the County nor the City intend for this License to be construed as a lease or easement or to otherwise convey a real property interest to the County and both parties acknowledge that this License merely permits the County to use the Licensed Property as provided in the Interlocal Agreement and License and in a manner that is consistent with the Special Act.

NOW, THEREFORE, LICENSE AND PERMISSION IS HEREBY GRANTED to: PALM BEACH COUNTY, its successors, assigns, and employees, to use the Licensed Property to widen the bridge and locate a pedestrian crossings and appurtenant facilities and equipment across the M-Canal subject to the following terms and conditions:

- 1. Included within this license shall be the right of the County to enter upon the Licensed Property at any time to install, operate, maintain, service, construct, reconstruct, remove, relocate, repair, improve, expand, tie into, and inspect road and pedestrian crossings and appurtenant facilities and equipment. County shall maintain the road improvements, appurtenant facilities and equipment in good order and repair, at no expense to the City.
 - 2. The City shall have access to the Licensed Property at all times.
- 3. County's use of the Licensed Property as intended shall not interfere with the City's use, maintenance and/or expansion of the M-Canal or the property within the Water Catchment Area, including adjacent service roads.
- 4. County's use of the Licensed Property shall not be inconsistent with or violative of the Special Act, or any applicable laws or regulations governing Class I potable water supplies or the Water Catchment Area.
- 5 Upon completion of installation of the roadway, pedestrian walkway and appurtenant facilities and equipment, County shall provide to the City's Engineering Department, as-built surveys or drawings of the crossings and appurtenances.
- 6. The County shall be responsible for recording this instrument in the public records of Palm Beach County, Florida.
- This License shall not be revoked unless the County's use of the Licensed Property is inconsistent with or violates the Interlocal Agreement, the Special Act, or any applicable laws or regulations governing Class I potable water supplies or the Water Catchment Area, presently in effect or as may be amended; or interferes with the City's use, maintenance and/or expansion of the M-Canal. The City, in its sole discretion, may decide whether the County's use of the Licensed Property is inconsistent with or violates the Special Act, or any applicable laws or regulations governing Class I potable water supplies. The City shall provide the County with written notice of any inconsistent use or interference and allow one hundred eighty (180) days' time for the County to cure any such inconsistency or interference. However, in the event of an emergency affecting water quality in the Water Catchment Area, upon notice from the City, the County shall be required to take immediate action to cure any such emergency. The City acknowledges that this License is granted for the particular purpose of widening the existing bridge and locating new pedestrian walkway improvements across the M-Canal at the locations shown on attached Exhibit B; that the County will expend substantial amounts of money carrying out that particular purpose; and that said expenditures will be specifically made in reliance on the granting of this License.
- 8. Without waiving sovereign immunity except to an extent consistent with all applicable Florida law, including, but not limited to, Chapter 768, Florida Statutes, the County shall indemnify and hold the City harmless from and against any and all loss, suit, action, legal or administrative proceeding, claim, demand, damage, liability, interest, attorney fees, costs and/or expense of whatsoever kind or nature due to personal injury, property damage and/or environmental damage arising in any manner directly or indirectly related to County's use of the Licensed Property under this Permit and License.
- 9. County agrees that its use of the Licensed Area is non-exclusive and subject to all covenants, agreements, easements and other matters affecting the Licensed Property.
- 10. Nothing contained in this instrument shall be deemed to grant to County any additional rights with respect to the Licensed Area. Nothing in this instrument shall be deemed to grant to County any additional rights to cross the M-Canal at any other location or for any other purpose.

11. <u>Notices</u>: All notices require hereunder shall be in writing and shall be addressed to the following representatives of the parties:

As to the City:

City Administrator City of West Palm Beach 401 Clematis Street (P.O. Box 3366 / 33402) West Palm Beach, FL 33401

As to the County:

County Administrator
Palm Beach County
301 N. Olive Avenue, 11th Floor
West Palm Beach, Florida 33401

12. Any subsequent conditions, representations, warranties or agreements to this Permit and License shall not be valid and binding upon the parties unless they are in writing and signed by both parties and executed in the same manner as this instrument.

ATTEST:			
X 1	00	2.	
Deputy	City Clerk	ling	
	U		,

CITY OF WEST PALM BEACH

By: Sualdine Muoio, Mayor

Dated: 2017

CITY ATTORNEY'S OFFICE Approved as to form and legality

By: KLR

EXHIBIT "A"

LEGAL DESCRIPTION:

A PARCEL OF LAND FOR AN EXPANDED LICENSE AGREEMENT TO ENCOMPASS THE SEMINOLE PRATT WHITNEY BRIDGE IMPROVEMENTS OVER THE M-CANAL, SAID PARCELLYING IN SECTION 1, TOWNSHIP 43 SOUTH, RANGE 40 EAST, PALM BEACH COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF SAID SECTION 1 IN ACCORDANCE WITH THE PUBLISHED POSITION OF SAID CORNER BY PALM BEACH COUNTY AND AS DELINEATED ON THE M-CANAL ROAD RIGHT-OF-WAY MAP AS SAID MAP IS RECORDED IN ROAD BOOK 6. PAGE 136 OF THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA; THENCE SOUTH 01°33′04″ WEST, ALONG THE EAST LINE OF SAID SECTION 1. A DISTANCE OF 330.43 FEET TO THE SOUTHEAST CORNER OF THE M-CANAL ROAD AS SHOWN ON SAID MAP; THENCE SOUTH 88°36′44″ WEST. ALONG THE SOUTH LINE OF SAID M-CANAL ROAD. A DISTANCE OF 3.876.63 FEET TO THE INTERSECTION WITH THE WESTERLY RIGHT-OF-WAY LINE OF SEMINOLE PRATT WHITNEY ROAD AS SAID LINE IS DEPICTED ON A RIGHT-OF-WAY MAP FOR SEMINOLE PRATT WHITNEY ROAD PREPARED BY PALM BEACH COUNTY AND RECORDED IN ROAD BOOK 4. PAGE 34 OF SAID PUBLIC RECORDS AND CONVEYED BY RIGHT-OF-WAY DEED TO PALM BEACH COUNTY IN OFFICIAL RECORD BOOK 1544. PAGE 378 OF SAID PUBLIC RECORDS: THENCE NORTH 01°42′54″ EAST. ALONG SAID WESTERLY RIGHT-OF-WAY LINE. A DISTANCE OF 80.12 FEET TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE. A DISTANCE OF 80.12 FEET TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF THE M-CANAL AS RECORDED IN DEED BOOK 1156. PAGE 58 OF SAID PUBLIC RECORDS AND THE POINT OF BEGINNING OF THE FOLLOWING DESCRIBED PARCEL:

THENCE SOUTH 88°36′44″ WEST, ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE, OF SAID M CANAL, A DISTANCE OF 85.13 FEET TO A POINT ON A LINE PARALLEL WITH AND 135.00 WESTERLY OF, AS MEASURED AT RIGHT ANGLES TO THE CENTERLINE OF THE 100 FOOT WIDE RIGHT-OF-WAY FOR SEMINOLE PRATT WHITNEY ROAD AS SAID RIGHT-OF-WAY IS DEPICTED ON THE PREVIOUSLY DESCRIBED RIGHT-OF-WAY MAP AND DEED; THENCE NORTH 01°42′54″ EAST, ALONG SAID PARALLEL LINE A DISTANCE OF 250.37 FEET TO THE NORTHERLY RIGHT-OF-WAY LINE OF SAID M CANAL; THENCE NORTH 88°36′44″ EAST, ALONG SAID NORTHERLY RIGHT-OF-WAY LINE, A DISTANCE IF 250.37 TO A POINT ON A LINE PARALLEL WITH AND 115.00 FEET EASTERLY OF, AS MEASURED AT RIGHT ANGLES TO SAID CENTERLINE; THENCE SOUTH 01°42′54″ WEST, ALONG SAID PARALLEL LINE, A DISTANCE OF 250.37 FEET TO SAID SOUTHERLY RIGHT-OF-WAY LINE OF THE M CANAL; THENCE SOUTH 88°36′44″ WEST ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE, A DISTANCE OF 165.24 FEET TO THE POINT OF BEGINNING.

CONTAINING 62,592 SQUARE FEET OR 1.437 ACRES, MORE OR LESS.

SURVEYOR'S NOTES

- 1) NO SEARCH OF THE PUBLIC RECORDS HAS BEEN MADE BY THE SIGNING SURVEYOR
- 2) BEARINGS SHOWN HEREON ARE BASED ON THE EAST LINE OF SECTION 1, TOWNSHIP 43 S., RANGE 40 E.HAVING A GRID BEARING (NORTH AMERICAN DATUM OF 1983, 1990 ADJUSTMENT) OF SOUTH 01°33'04" WEST.

LYING IN SECTION 1. TOWNSHIP 43 SOUTH, RANGE 40 EAST

1997511	3	SHEET:]	SEMINOLE PR ROAD AT TH	ATT WHITNEY HE M-CANAL	SCALE: 1 "= 50" APPROVED: W.L.F. DRAIN: W.L.F. CHECKED: G. W.M. DATE DRAIN: 05/27/14	D. REVISION	BY DATE	PALM BEACH COUNTY ENGINEERING AND PUBLIC WORKS ROADWAY PRODUCTION 2300 NORTH JOG ROAD
C2B			DESIGN FILE NAME S-1-14-3517.DGN	S-1-14-3517	FIELD BOOK NO.			WEST PALM BEACH, FL 33411

SURVEYOR'S NOTES CONTINUED

- COORDINATES SHOWN ARE GRID
 DATUM = NAD 83. 1990 ADJUSTMENT
 ZONE = FLORIDA EAST
 LINEAR UNITS = US SURVEY FOOT
 COORDINATE SYSTEM 1983 STATE PLANE TRANSVERSE MERCATOR PROJECTION
 ALL DISTANCES ARE GROUND.
 PROJECT SCALE FACTOR = 0.9999996
 GROUND DISTANCE × SCALE FACTOR = GRID DISTANCE 3)
- 4) ALL FEATURE SYMBOLS SHOWN ARE NOT TO SCALE.
- 5) THIS IS NOT A BOUNDARY SURVEY.
- IT IS POSSIBLE THAT THERE ARE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, OR OTHER INSTRUMENTS WHICH COULD AFFECT THE SUBJECT PROPERTY, WHICH ARE UNKNOWN TO THE SIGNING SURVEYOR.
- THIS INSTRUMENT WAS PREPARED BY WAYNE LARRY FISH, P.S.M. IN THE OFFICE OF THE COUNTY ENGINEER, VISTA CENTER 2300 NORTH JOG ROAD, WEST PALM BEACH, FLORIDA 33411-2745. 7)

LEGEND

RECORD BOOK

ORB = OFFICIAL RECORD = ROAD BOOK
DB = DEED BOOK
PC = PAGE
R/W = RIGHT-OF-WAY
EASE = EASEMENT
TWP = TOWNSHIP
RCF = PANCE

RGE = RANGE PBCO = PALM BEACH COUNTY

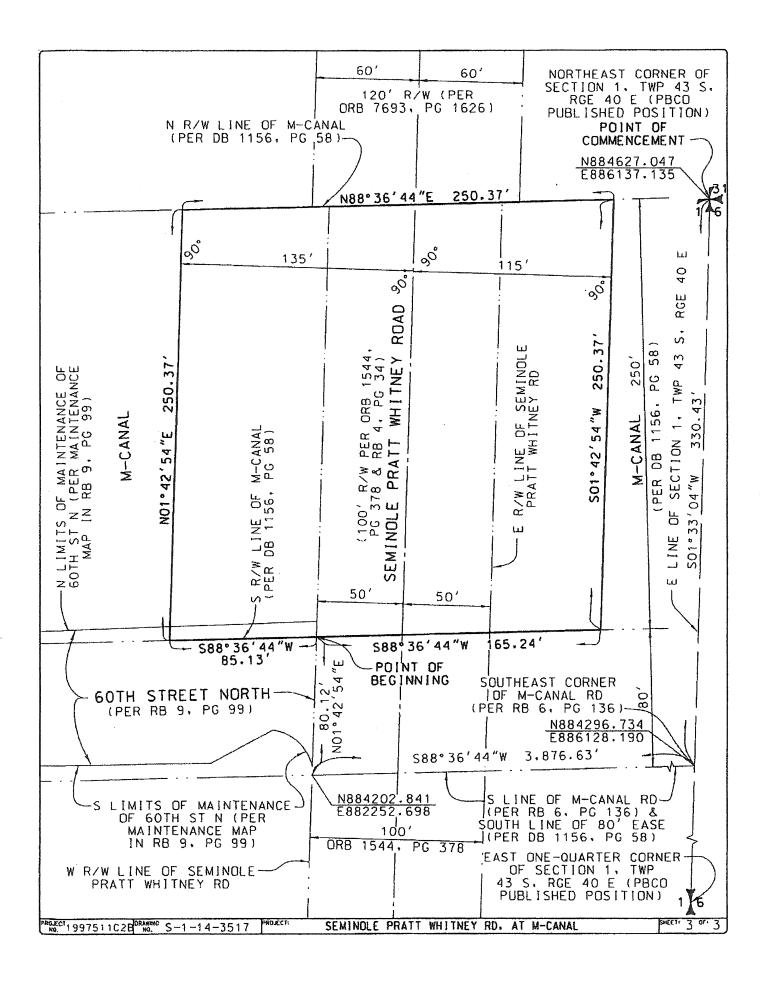
NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

SURVEYOR'S CERTIFICATION

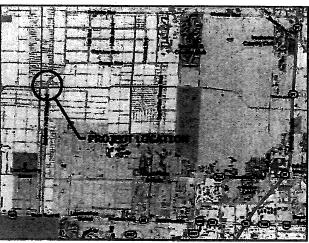
I HEREBY CERTIFY THAT THIS LEGAL DESCRIPTION AND SKETCH SHOWN HEREON WAS MADE UNDER MY RESPONSIBLE DIRECTION AND SUPERVISION AND THAT SAID SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17.050-.052, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

WAYNE LARRY FISH PROFESSIONAL SURVEYOR & MAPPER FLORIDA REGISTRATION NO. 3238

5/29/2014







LOCATION MAP

Sheet List Table COVER SPIECE

CONTRACTOR SPECT DUSTING AND PANSE I CROSS SECTIONS REQUIRED AND ULTIMATE CROSS SECTIONS EDSTING SKIPCE AND ADTUAL DUSTING BRIDGE PLAN PROPOSED BRADGE AND ASSULA PROPOSED ULTIMATE STEDGE PLAN PROPOSED STODGE SLEWATION CHRISTING PLANTS FROM AN EMPLYS AND ENGINEE CERCUTACHNAL WATER PAIN BOTTE FROM AS SUBLITE AND ENGINE

DOM, BOTTONOS PROPOSED SUBSTRUCTURE PRIES PLAN PLE DATA SHEET PROPOSED SOUTH PRO SENT NO 1 PROPOSED SOUTH ENG SENT NO 1 SLEWS

PROPOSIED FIGHTH IND SONT NO 2 PROFESSION OF SHE BONT NO 2 ELEVATIV SATURCIA BONT DETAILS WING BEST DETAILS MILL SECTION NAD SOURCE

PRECAST SLAB 27 III DETAILS SHEET WALL CETAILS

HEDIAN DETAILS

E.D.O.T. Standard Sheets

TRAPPIC RALESS - CET VENTICAL SWEED (SWEETS 1-3) ALLEGRAM PROPERTY MARKETON & RULL BY BASE THAT DOYAN & POACETS 1-TO HOTES AND CETALS FOR SQUARE PRESTRESSED CONCRETE PRINT

Proposed Bridge Widening for: Seminole Pratt Whitney Road Bridge over "M" Canal Palm Beach County, Florida



100% SUBMITTAL



Pay Item Notes:

- The Contract Unit Prices for the precast/prestressed units shall include the units, prestressing strands, reinforcing steel shipped with the units, post-tensioning tendons and anchor assemblies, neoprene bearing pads, pre-moided expansion material, epoxy grout and non-shrink grout.
- Payment for incidental items which are not covered in the individual bid items shall be included in the contract unit price for the bid items.

Bidders Notes:

- Deck Units and Closure Pours must be installed before End Bents are back filled to Elevation 20.0.
- Existing Force Main and Water Main are to remain and Contractor is to locate and avoid damage during construction. See As-Built Drawings on Roadway Set for Additional Pipe Location Information.

ITEM BRIDGE	HO. REQUIRED	UNIT	DUANT TT	
RAUDGE			QUARTITY	AS BUILT
NOBILIZATION INCLUDING TURBIDITY BARRIER		L 5.	,	
DEMOLITION OF EXISTING COMPONENTS		L.S.		
SUPERSTRUCTURE)				
PRESTRESSED PRECAST DECK UNITS				
5 = 8-4 = 77-5	- 6	L.r.	18G-G	
	,	1. f.	35-4	
LASS II CONCRETE FOR CLOSURE POURS BETWEEN DECK UNITS		Cu, Ydg,	11	
BINFORCING STEEL FOR CLOSURE POURS BETWEEN DECK UNITS		Las	1,718	
CONCRETE TRAFFIC RAILING BARRIER (32" VERTICAL SHAPE) INCLUDING BARRIERS ON APPROACH SLABS		L.F.	178-0	
SHOULDER CONCRETE BARRIER WALL (INDEX NO. 410 - CRITHEYERED WALL)		LF.	20-0-2	
MUNIMUM PECESTRIAM/BICTCLE BARRIER RAILING		4.1.	57-F	
SUBSTRUCTURE)				
LASS II CONCRETE FOR PILES CAPS		CM. TV2.	98	
ENFORCING STEEL FOR PILES CAPS		Lbs.	21,300	
MESTMESSED PILES				
ADUTHERT)				
F SQUARE & 55-0" MIRINUM (TEST PILE - ABUTHENT)	2 EACH	L. F.	110-0	
	16 EACH	Lof.	840-0°	
r u r-gr u ja-or frecust Concrete Studt Wall	2 EACH	1. 1.	78-5"	
	25 EACH	1. [.	350-0	
SIDEMALES AND NEDIAN)				
LASS II CONCRETÉ		CIL YES.	63	
EINFOACING STEEL		lbs.	2,703	
APPROJEH SLABS)				
		Cu. Yda	114	
	00000	2000		
	ARESTRESSED PRECAST DECK UNITS P = 0-0" = 77-4" P = 0-0" = 0-0" = 0-000000000000000000000	AMOUNTION OF BUSISTING COMPONENTS BUFFLAST RUCEVINES RESTRESSED PRECAST DECR UNITS F = 0-0-1 177-F F = 1 5-7-1 27-F S = 1 5-7-2 27-F 2 1 25-5 1 27-F 2 1 25-5 1 27-F 5 1 25-5 2 27-F 2 1 25-5 1 27-F 5 2 1 25-5 2 27-F 2 1 25-5 1 27-F 5 5 2 1 25-5 2 27-F 2 1 25-5 1 27-F 5 5 2 1 25-5 2 27-F 5 5 2 1 25-5 2 27-F 5 1 25-5 2 27-F 5 5 2 1 25-5 2 27-F 5 1 25-5 2 27-F 5 2 25-5 2 25-F 5 2 25-7	AROSTRESSED PRECAST DECE UNITS ### COLOR OF BUSINESSED PRECAST DECE UNITS ###################################	ARSTRESSED PREAST DECK UNITS P. S. P. J. T. P. ARSTRESSED PREAST DECK UNITS P. S. P. J. T. P. F. S. J. T. ARSTRESSED PREAST DECK UNITS P. S. P. J. T. P. F. S. J. T. S. L. F. S. S. T. C. S. L. F. S. L. F. S. S. T. C. S. L. F. S. S. T. C. S. L. F. S. S. T. C. S. L. F. S. L. F. S. S. T. C. S. L. F. S. L. F. S. L. F. S. L. F. S. S. T. C. S. L. F. S. S. T. C. S. L. F. S. L. F. S. S. T. C. S. L. F. S. S. T. C. S. L. F. S. L. F. S. S. T. C. S. L. F. S. L. F. S. L. F. S. S. T. C. S. L. F. S. L. F.

Contractor shall verify all dimensions and quantitles prior to construction and fabrication. Discrepancies shall be brought to the attention of the Engineer before construction.







Proposed Bridge Widening for: Seminole Pratt Whitney Road Bridge over "M" Canal Palm Beach County, Florida



GENERAL SPECIFICATIONS:

Florida Department of Transportation Standard Specification for Road and Bridge Construction (2014-Edition).

DESIGN SPECIFICATION:

6th Edition of the AASHTO LRFD Bridge Design Specifications 2014 with current interims. 2014 Edition of the FLDJT. Structure Design Manual with current interims. FLDJT. Plans and Preparation Manual January 2014.

DESIGN LOADING:

Live Load!" HL-93 with Dynamic Load Allowence Dead Load: Dead Load: AZT Vertical Shapo Traffic Railing and Pedestrian Railing Rainforced Concreto Future Wearing Surface 395 p.j.f. 150 p.t.f. 18 p.s.f. 1,840 p.l.f. 872 p.l.f. 16 p.s.f. Proposed-155 Asphall

CONCRETE:

Note: Concrete to be in compliance with F.D.O.T. Specifications 346.

CONCRETE CLASS	MINIMUM 28 DAY PHPRESSIVE SYNESS (RSI)	LOCATION OF CONCRETE IN STRUCTURE
Class II Class IV Class II (Bridge Deck)	ic = 3.4 ic = 5.5 ic = 4.5	Sidewalks and Barriers Cast-in-place Pile Caps and Sheet Pile: Cast-in-place Approach Siebs
Class V (Special)	1c = 6.0	Cost-in-piece Ciósure Pours Prestressed Controlé Piles Prestressed Controle Slabs

CONCRETE:

Pravide 3/4 inch chamfers on all exposed edges and corners except as otherwise noted.
 Construction joints will be parmitted only at the locations indicated on the plans, additional construction joints or otherations to those shown will require approval by the engineer.

- Reinforcement shall be ASTM A-615, Grade 60. Spiral ties for prostressed concrete piles shall be manufactured from sold drown steel wire meeting the requirements of ASTM ABZ.
 All dimensions pertaining to location of reinforcing are to contertine of bars except where the cloar dimension is shown to face of concrete.
 Reinforcement detail dimensions are out-to-out of bars.

HIMIMUM CONCRETE COVER:

- CIP Superstructure = 2 in (Typical except as noted).
- CIP Substructure/Bont Cap = 4 in for external surfaces cast against earth and in contact with water.
- CIP Substructure/Dam Cap = 3 In. for other external surfaces.
- CIP Substructure/Sheet Walls, Procest Pacado 3 In.

Concrete covers shown in the plans do not include placement and fabrication tolerances unless shown as "minimum cover". See F.D.O.T. Standard Specifications for allowable tolerances.

DESIGN METHOD;

All elements were designed using the LRFD (Load and Resistance Factor Dosign).

PILE LOAD:

See Sheet 8-13 for Pile Loads.

PILES:

. 18 Inch square Prestressed Concrete Piles.

SURFACE FINISH:

All exposed surfaces of and bent wing walls and barriers shall receive a "Class S applied fluish coating".

ENVIRONHENT:

Location: Inland
Superstructure: Silphily Aggressive Substructure: Moderately Aggressive, controlling criteria: Water Ressistivity > 2,000 (ohm-cm

PATUR:

All Elevations shown are in N.G.V.D. 29, Unless Noted Otherwise. (Conversion 0.00 N.A.V.D. 88 = 1.473 N.G.V.D. 28)

PRESTRESSED MEMBERS NOTES

EINISH:

The las of prestressed units shall be (fulphed to a smooth, deers surface with a steel trone), then courtely breened or raded to provide a surface suitable for pooring to aspaths, all other surfaces of the util shall receive a "Class 3" surface (finish. The edge of the log of the surface of the units shall be finished by use of a small reducts tool.

At transfer of the prostressing load, the cylinder strength of the concrete shall be 4000 psi. It shall be 6,000 psi at trenty-eight (28) days for slab units.

HANDLING AND STORAGE:

During handling and storage, the prestressed units must be picked up at the ends of the units to prevent damage. The prestressed units must be stored in an up-right position at all times.

All prestrosses units shall be east on concrete based pallets and in metal forms. Keyway form may be wood.

STRAND EXTENSION:

All strands shall extend 2-1/2 inches beyond the ends of the prestressed units.

SHOP DRAWINGS:

The contractor shall submit (for E5) area of sings of prologs, showing complete details of the promosed proceed units. The disordings shall include cridinately prescribed to greater saling bad layout, tensioning and detensioning stredules, and all computations required to control the work.

BEARING PADS:

Meoprene bearing pads shall be 1/2 inch X 6 inch strips in accordance with Section 932-2 of the Specifications. The pads may be continuous strips or auditiple lengths of 2 feet and 0 inches adminum length. The pads may be cut from commercially availables sheets.

POST TENSIONING:

Past tonsion cobins shall be four (3).5 inch diameter 270k LO LAX strands. Cables should be in accordance with ASTM Specification 4-416. The cables shall be stressed and anchored at 128,000 points per (3) strand post-entiale cable. The transverse post dension cables shall not be tensified until the concrete in the joints and beyongs has been cared for a minimum of seventy-was CT2 hours or has schized 27% of design strength.

CABLE ANCHORAGES:

The Cabricator shall submit details of the cable anchorage and anchorage reinforcement details for approval with the Shop Drawings.

CONSTRUCTION NOTES

EQUIPMENT ON UNITS:

Before heavy construction equipment is permitted on the structure during construction, sketches showing the earle spacing and anticipated loadings shall be submitted to and approved by the Engineer.

POST-TEMSIONING SEQUENCE:

Post-tensioning small be done according to the number sequence shown on the precast slab layout sheet, See shoot 8-23.

FILLING CONCRETE JOINTS BETWEEN UNITS:

Jaim's between size units shall be poured a minimum of seventy-two (72) hours or have 75% of the seasing screenin before any post-tensioning operations can begin. Gare should be taken to prevent intrusion of mix into ducts.

GROUTING POST-TENSION DUCTS:

The past-tensioned strends shall be grouted in accordance with Section 934 of the Specifications: The grouted strends shall not be disturbed, nor shall appreciable loads be placed on the span for a period of seventy-wire (73) hours fallowing grouting operations.

FILLING ANCHORAGE BLOCKOUTS!

All anchorage blockouts shall be filled with concrete and finished flush with surface of dock face.

PLACING BARRIER WALLS AND SURFACING

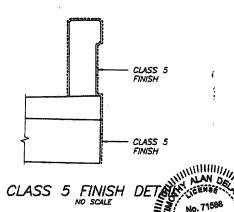
All post-tensioning strands shall have been grouted and the minimum seventy-two 72 hours have passed before the barrier walls and wearing course can be placed.

VIBRATION HONITORING:

The settlement of structures and vibration levels shall be manitored in accordance with F.D.D.T. Specifications 455-1.1. A pre-construction video recording of all structures within the obtainces specified in the Specifications shall be made.

MISCELLANEOUS NOTES

Floating Turbidity Barrier with fine mesh shall be used in occordance with F.D.O.T. Standard Specifications, Section 104.



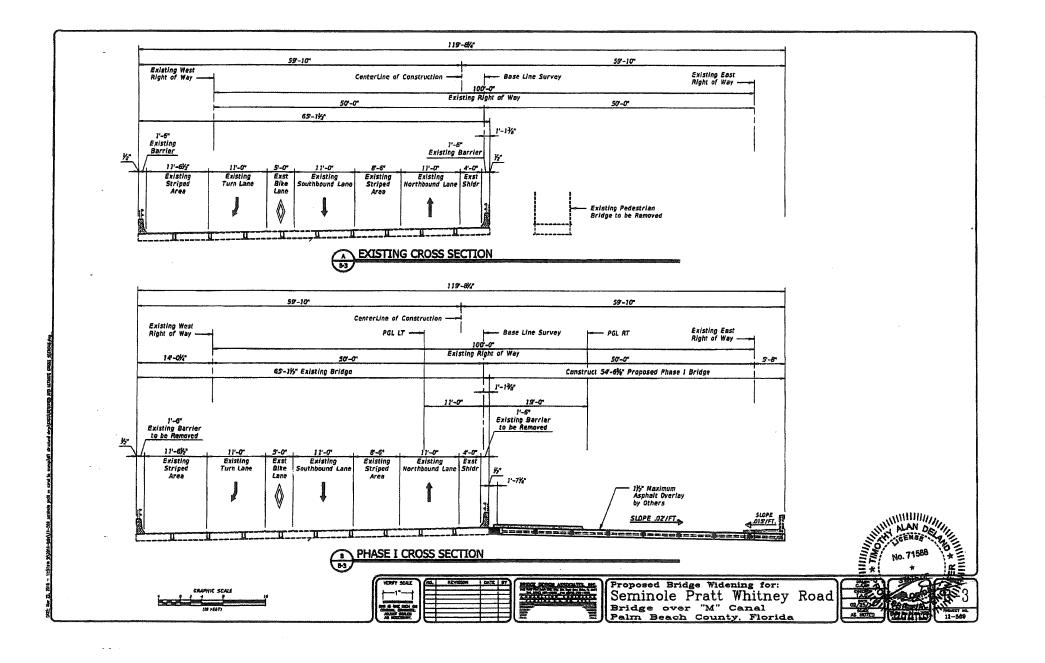


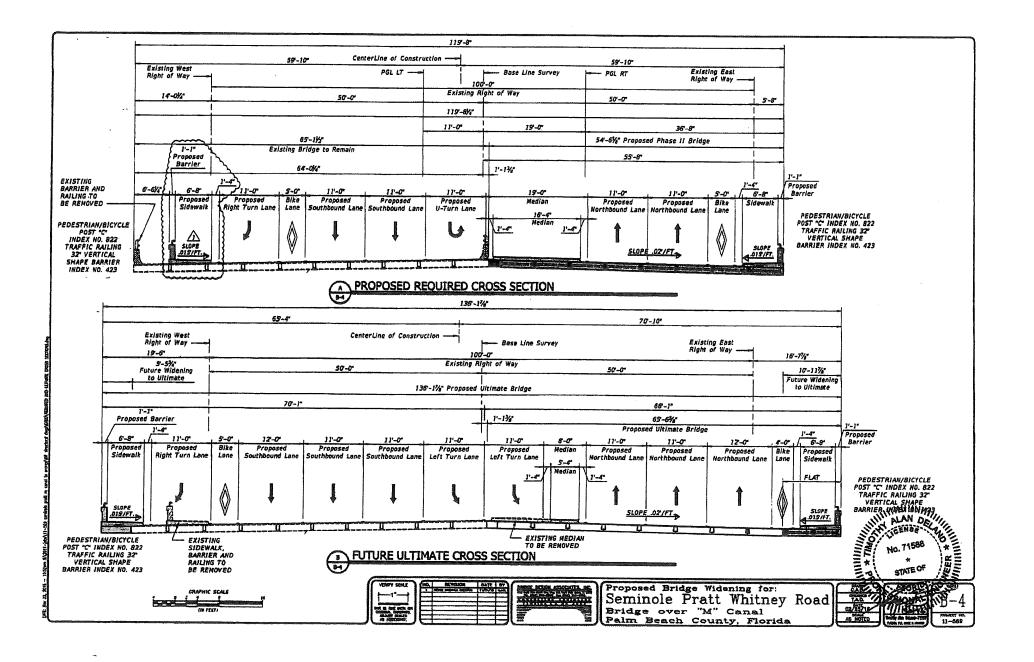


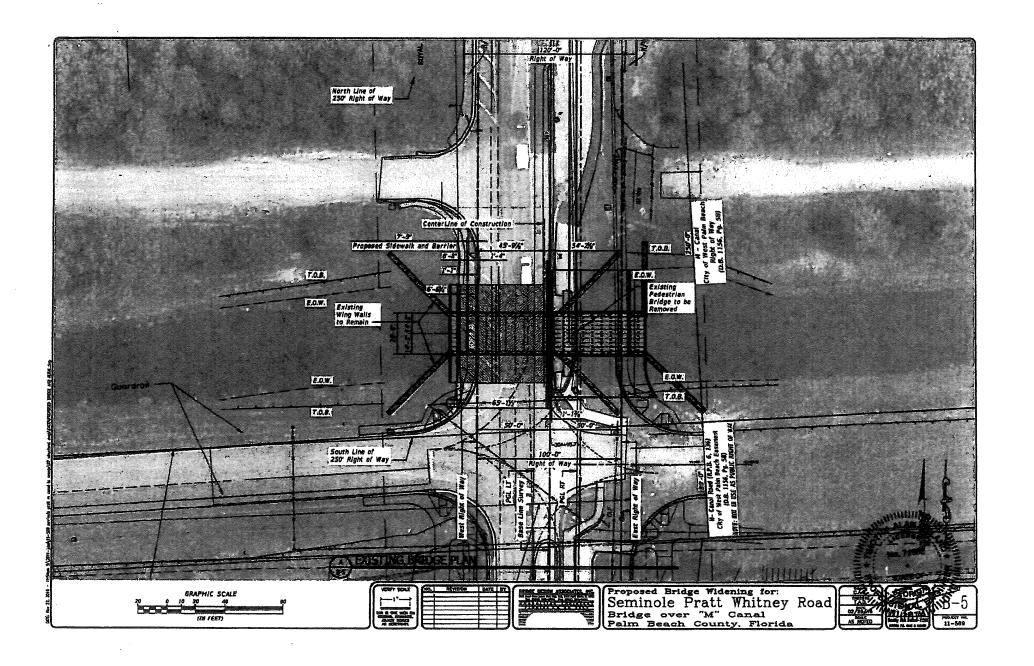
Proposed Bridge Widening for: Seminole Pratt Whitney Road Bridge over "M" Canal Palm Beach County, Florida

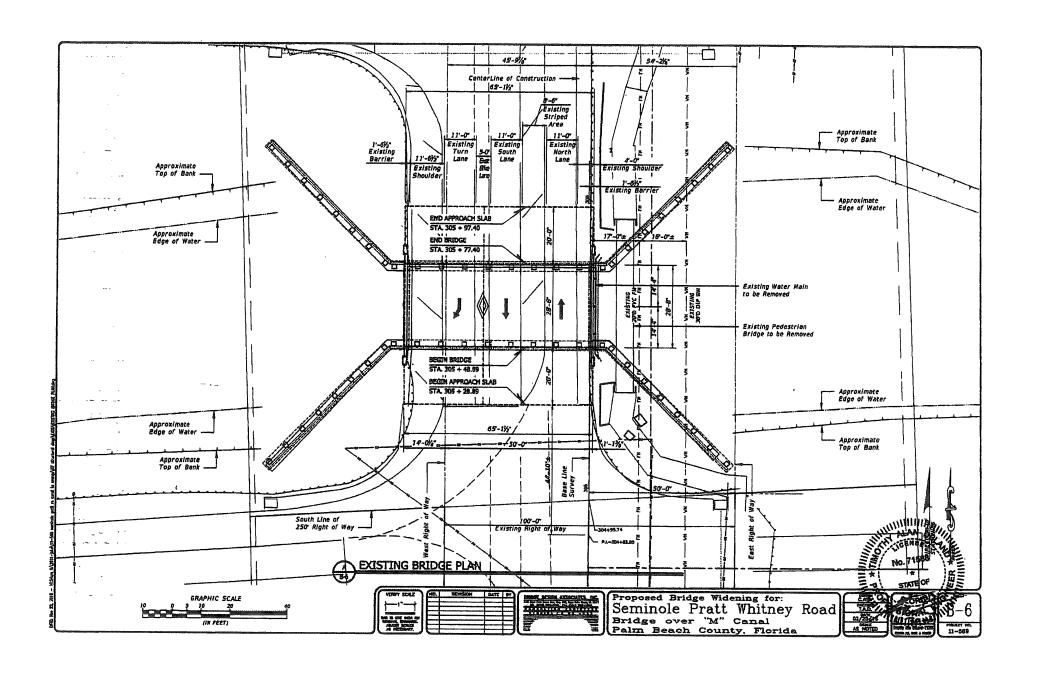


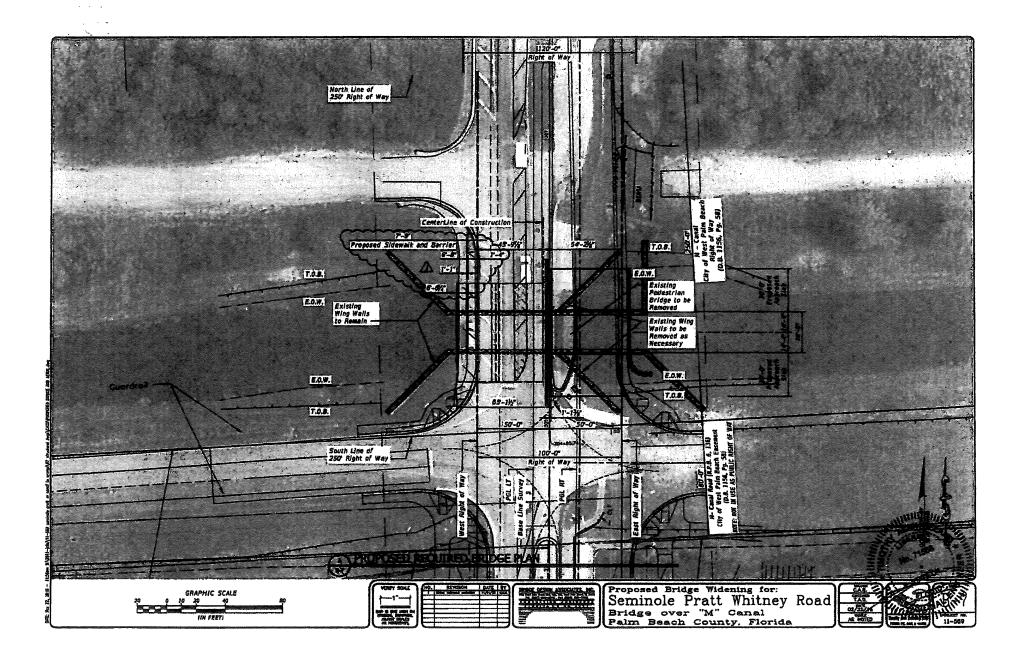
No. 71588

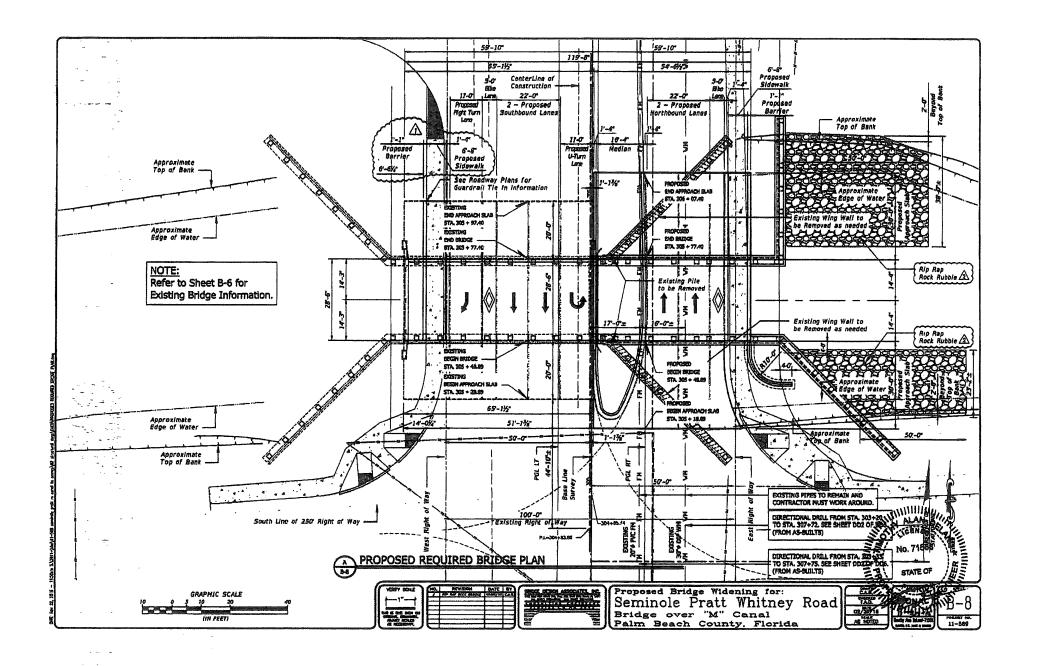




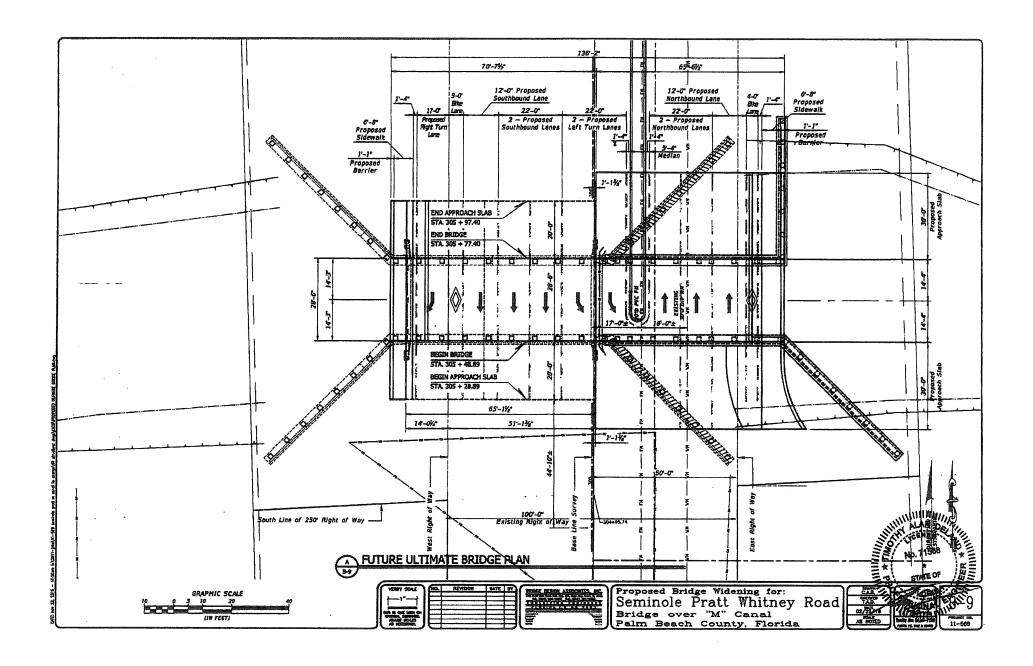


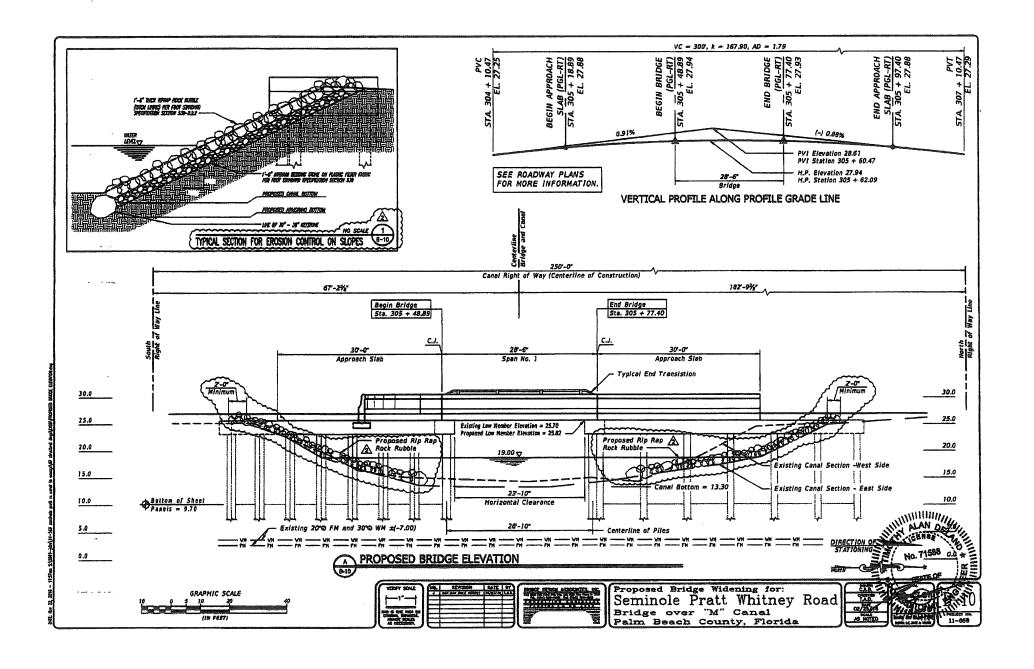


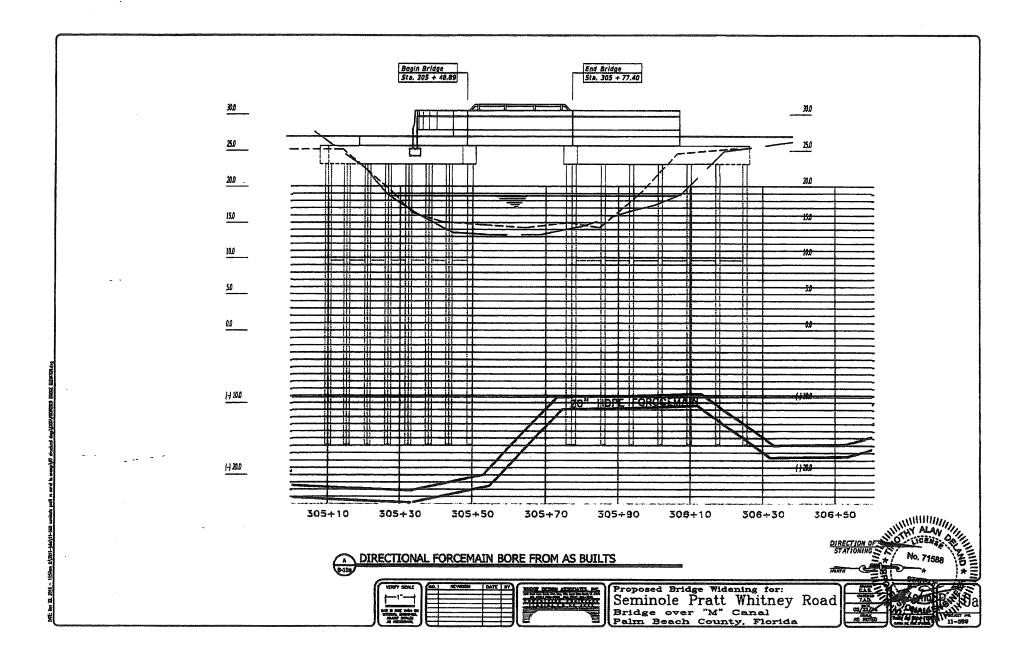


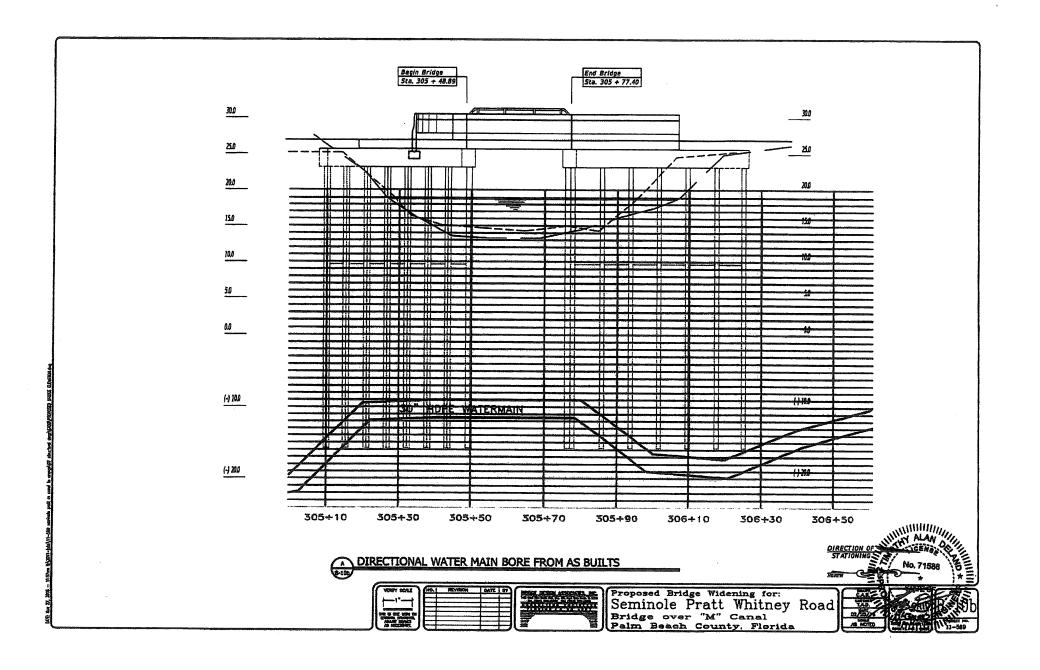


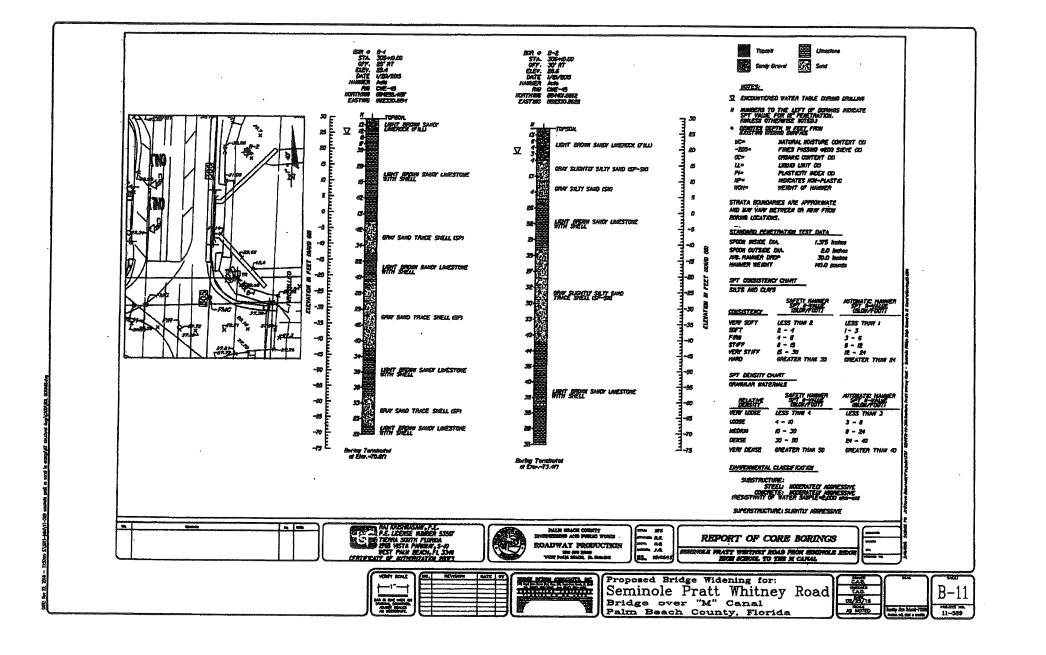
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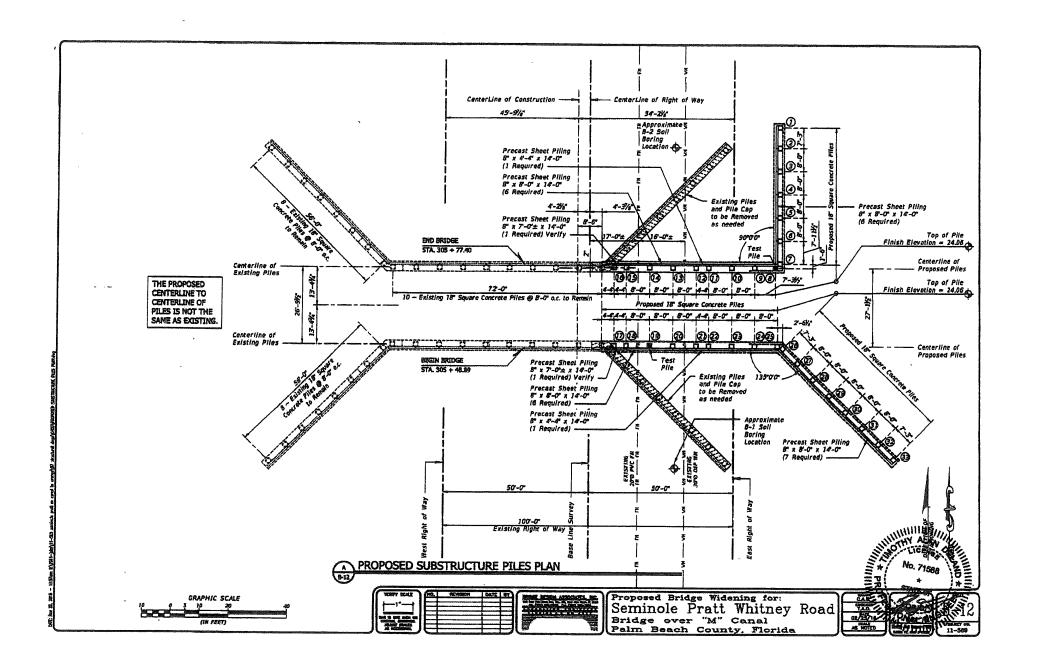












Factored Design Load + Net Scour Resistance + Down Drag

s Nominal Bearing Resistance

TENSION RESISTANCE -

The ultimate side friction capacity that must be obtained below the 100 year scour elevation to resist pullout of the pile (Specify only when design requires tension capacity).

TOTAL SCOUR RESISTANCE -

An estimate of the ultimate static side friction resistance provided by the scourable soil.

NET SCOUR RESISTANCE -

An estimate of the ultimate static side friction resistance provided by the soil from the required preformed or jetting elevation to the scour

elevation.

100-YEAR SCOUR ELEV. -

Estimated elevation of scour due to the 100 year storm

event.

LONG TERM SCOUR ELEV. -

Estimated elevation of scour used in design for extreme

event loading.

PILE INSTALLATION NOTES:

Contractor to verify location of all utilities prior to any pile driving.

Minimum Tip Elevation is required for lateral stability.

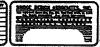
The Contractor is not allowed to jet piles.

Service Pile Load = 66 Tons

Production Piles Estimated at 40 feet.

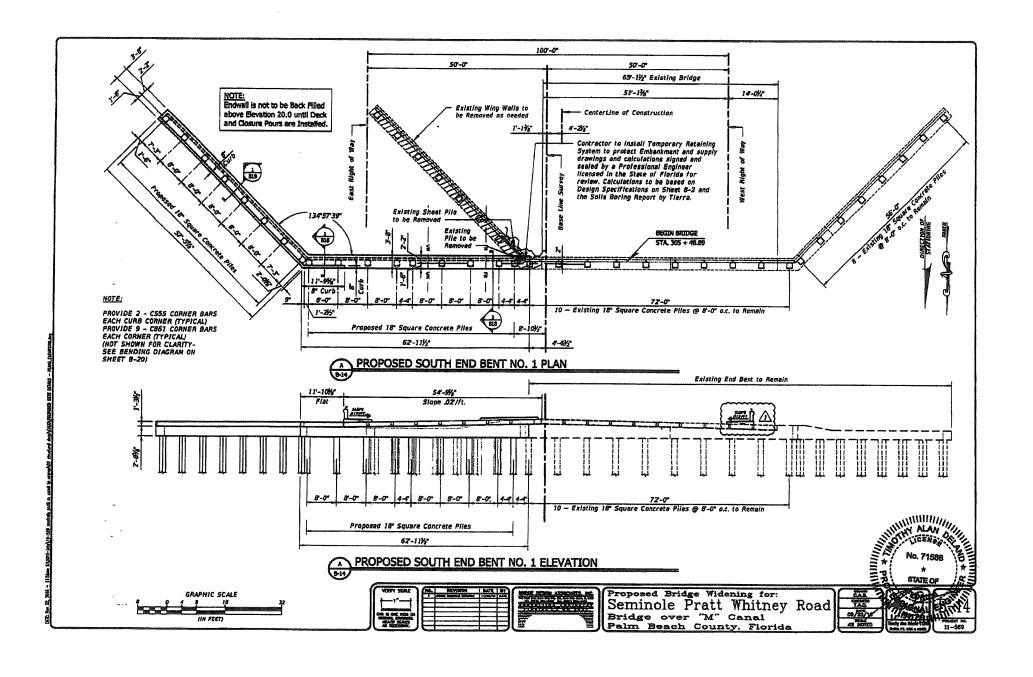
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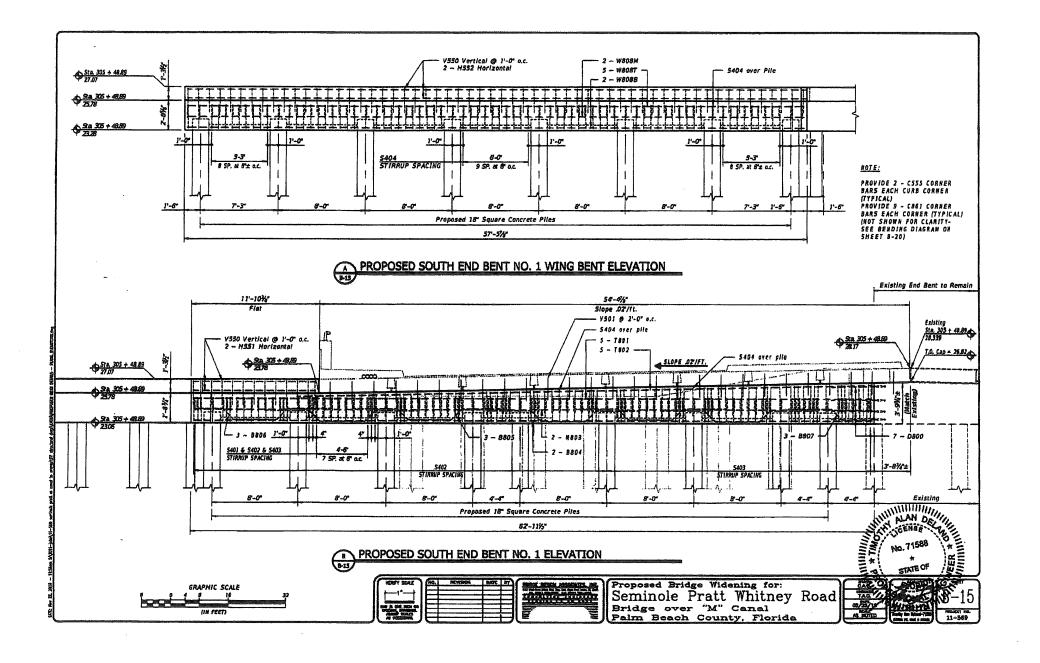


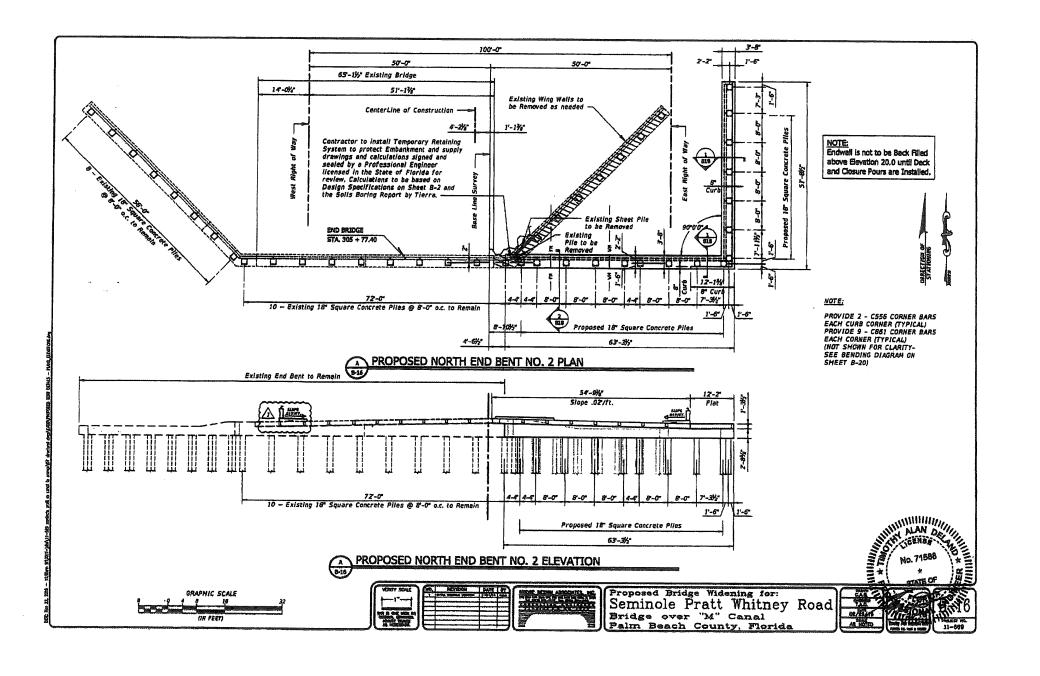


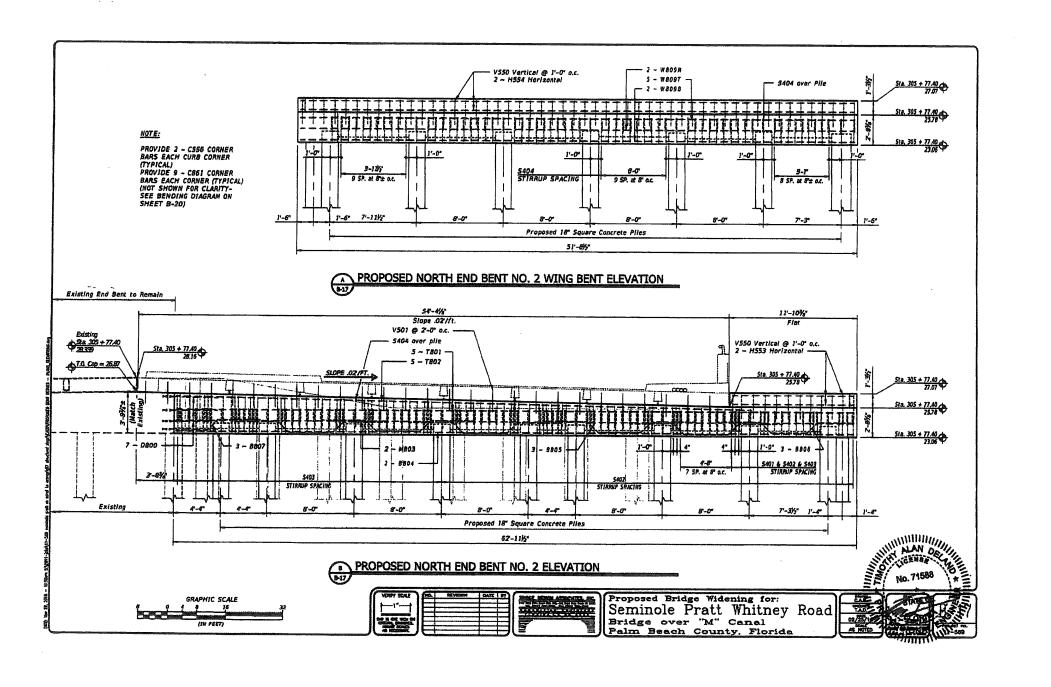
Proposed Bridge Widening for:
Seminole Pratt Whitney Road
Bridge over "M" Canal
Palm Beach County, Florida

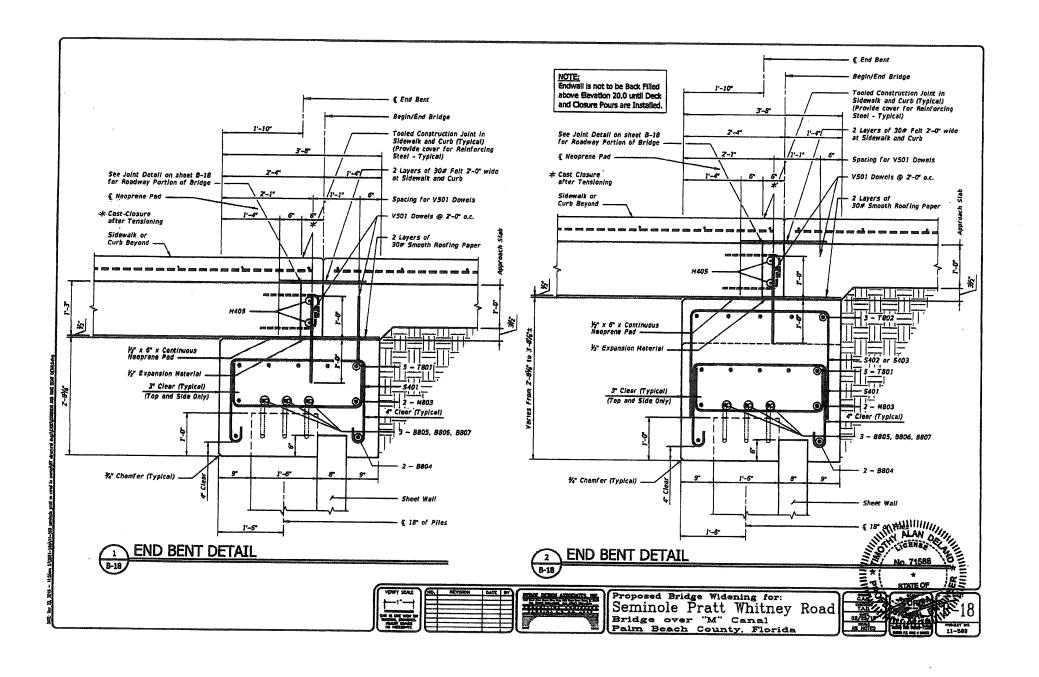


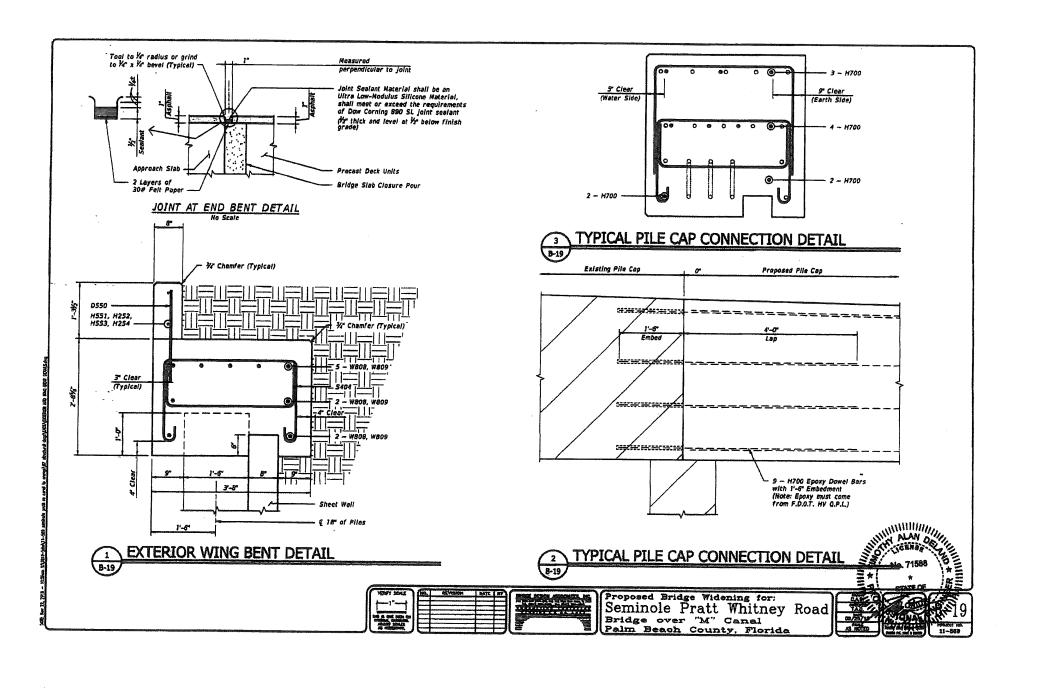


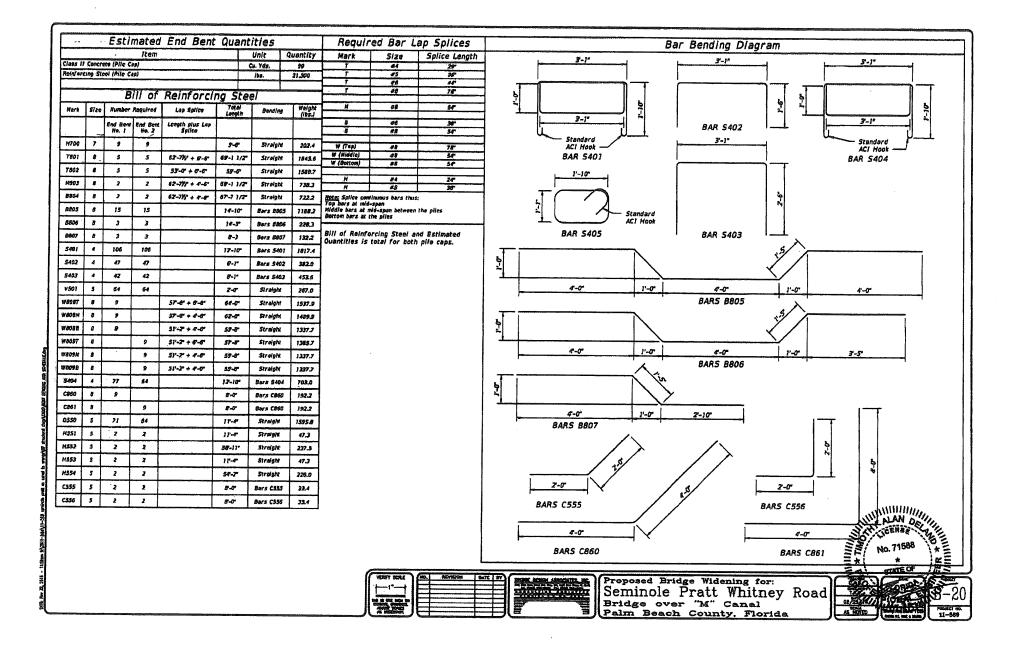


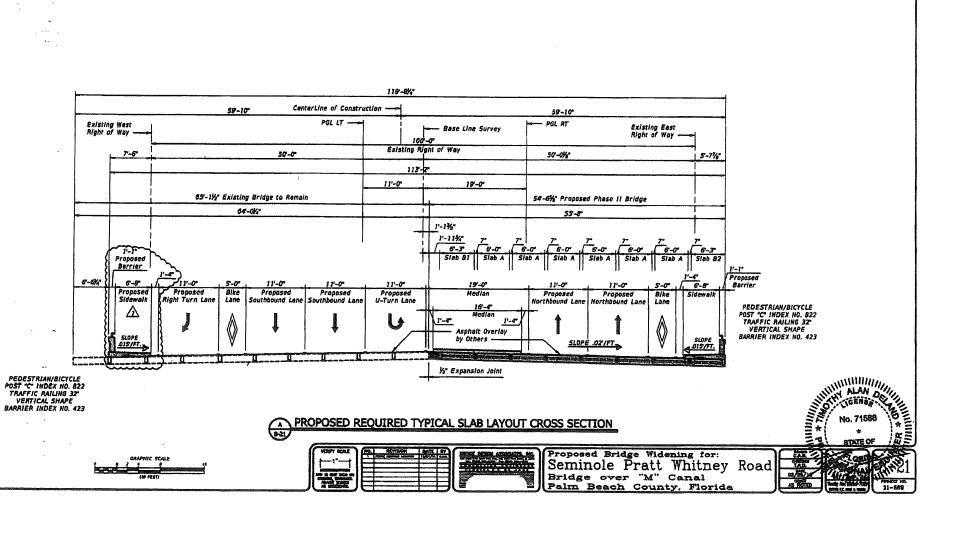


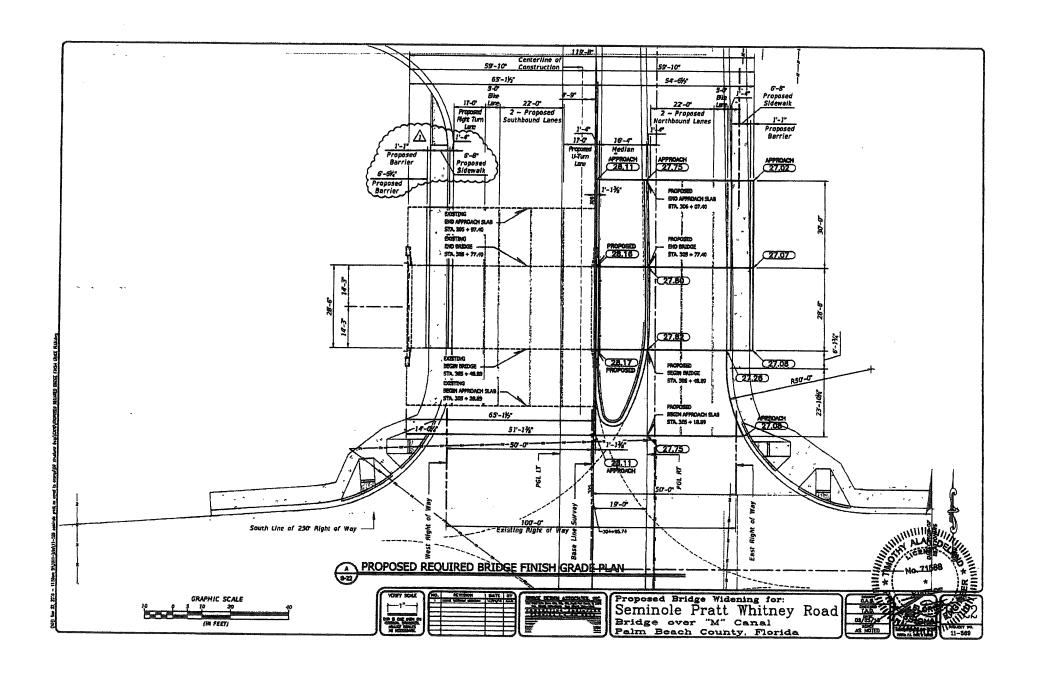


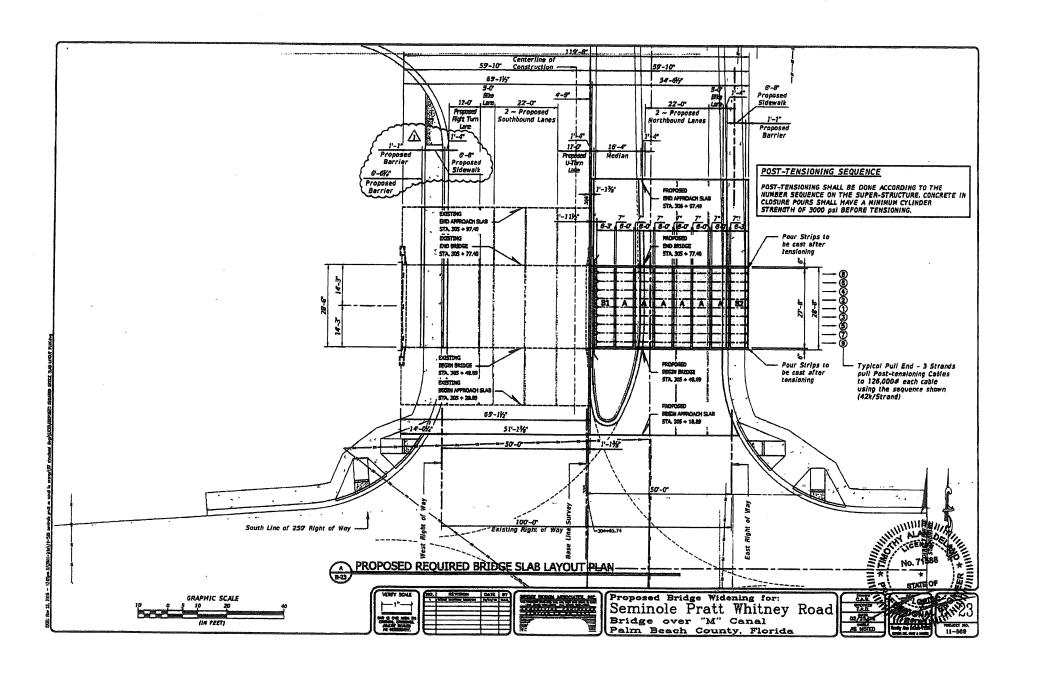


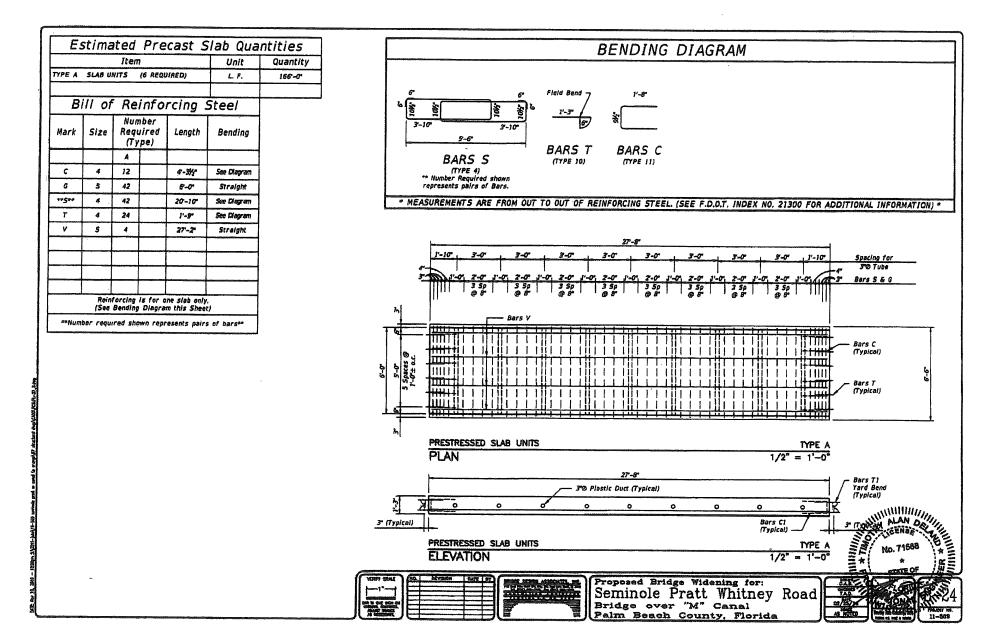


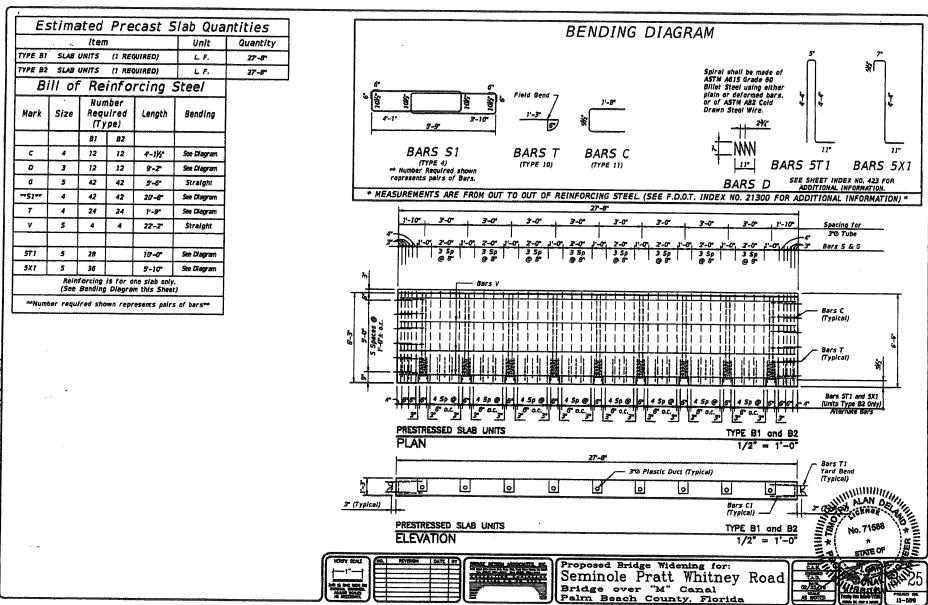






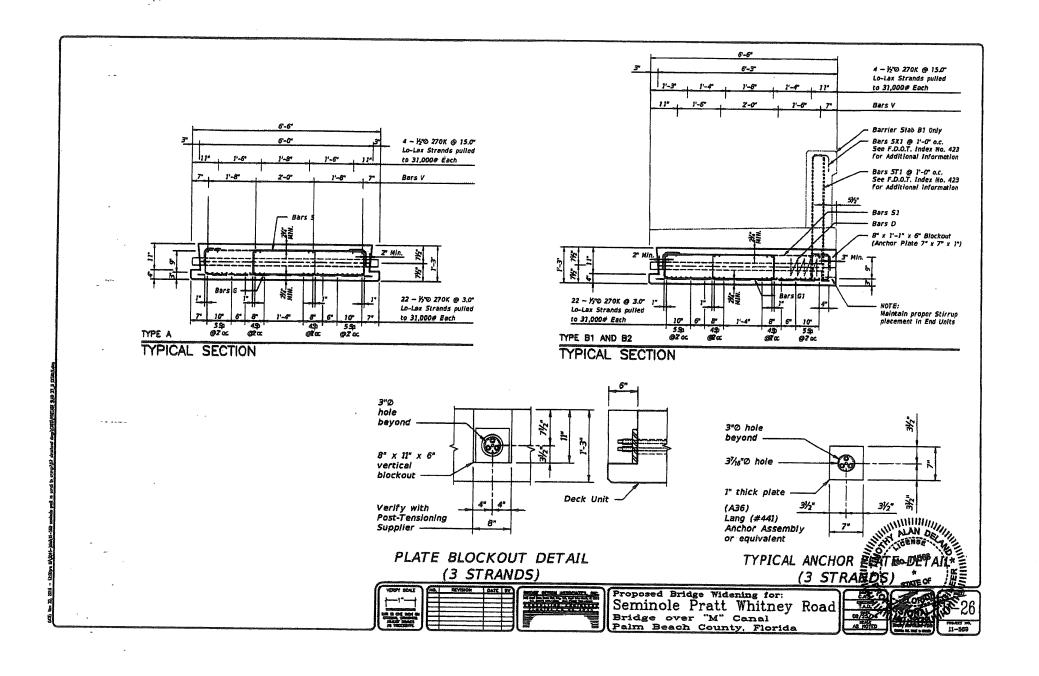


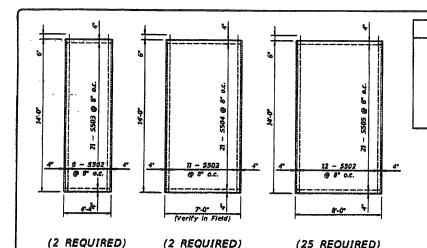




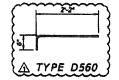
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BENDING DIAGRAM



Estimated Sidewalk and Miscellaneous Quantities

Item	Required	Unit	Quantity
Class II Concrete (Closure Pours)		Cu. Yds.	по
Roinfercing Steel (Closura Pours)		ibs.	1718
Class II Concrete (Sidemolks)		Cu. Yds.	30.0
Reinforcing Steel (Sidewalks)		ibs.	1.042
Class II Concrete (Median)		Cu. Yds.	93.0
Reinforcing Steel (Medium)		/25.	1,279
8" x 4-4" x 14-0" Sheet Well	2	L.F.	28-0"
8" x 7'-0"4 x 14-0" Sheet Wall	2	L F.	26.0
8" x 8"-0" x 14-0" Sheet Well	25	L P.	357-0
40 N/C Conduits		L.F.	B10'-0'

Bill of Reinforcing Steel

SHEET WALLS (TOTAL)

Total Langth

14-2

3-2

5.10

6-10

28-2

28-2

58'-6"

2-5

74

2842"

19.6*

27.4

5.4

15-5

12-0"

28-2"

29'-6"

MEDIAN (TOTAL)

SIDEWALKS (TOTAL)

West Approach

East Approach

Average North Modin

Langth Varies Avarage South Medien (Length Yorks

CLOSURE POURS (TOTAL)

Straight

Straight

Straight

Stroight

Straight

Straight

Straight

Straight

Stratoht

Straight

Straight

Straight

Straight

Straight

Number Required

8" SHEET WALL DETAIL

(25 REQUIRED)

PAYMENT

The contract unit price for precast concrete sheet piling shall include reinforcing steel and S.R. cables.

F.D.O.T. Class IV Concrete (Pc = 5,500 p.s.l.) (28 Day) with 0.41 water/cement ratio and 564 lb/yd minimum cementitous material.

PICKUP BARS

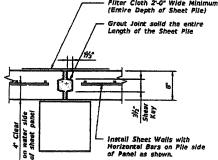
At the option of the contractor, 2-7/16" strands may be substituted for No. 6 pickup bar. Strands shall be embedded in pile a minimum of two (2) feet.

REINFORCING STEEL

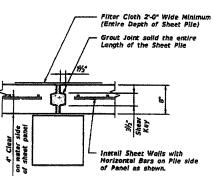
Reinforcing steel shall be Grade 60.

PLASTIC FILTER FABRIC

A plastic filter fabric (see Florida Department of Transportation Standard Specifications for Road and Bridge Construction) shall be placed between fill and precast sheet piles for the entire depth of the sheet pile and extend into the cap. Cost of all labor and materials required for installing plastic filter fabric shall be included in the contract unit price for sheet piling.



SHEET WALL JOINT DETAIL



Proposed Bridge Widening for: Seminole Pratt Whitney Road Bridge over "M" Canal Palm Beach County, Florida

Mark Size

3502 5 334

5503 5 42

5504 5 42

550S 5 525

H508 8 34 H901 9 8

DS60 S S6

H407 4 91

H307 5 12

HS07e S 12

M507b 5 6

H408 4 20

H408a 4 21

HS08 5 12

18

12

HAORD

MSOGa

H308b 5

5406 A 25 25

H405 4 2 2 55-6" + 3-6"



Weight (Ibs.)

4935

139

255

3742

411

766

156

228

156

445

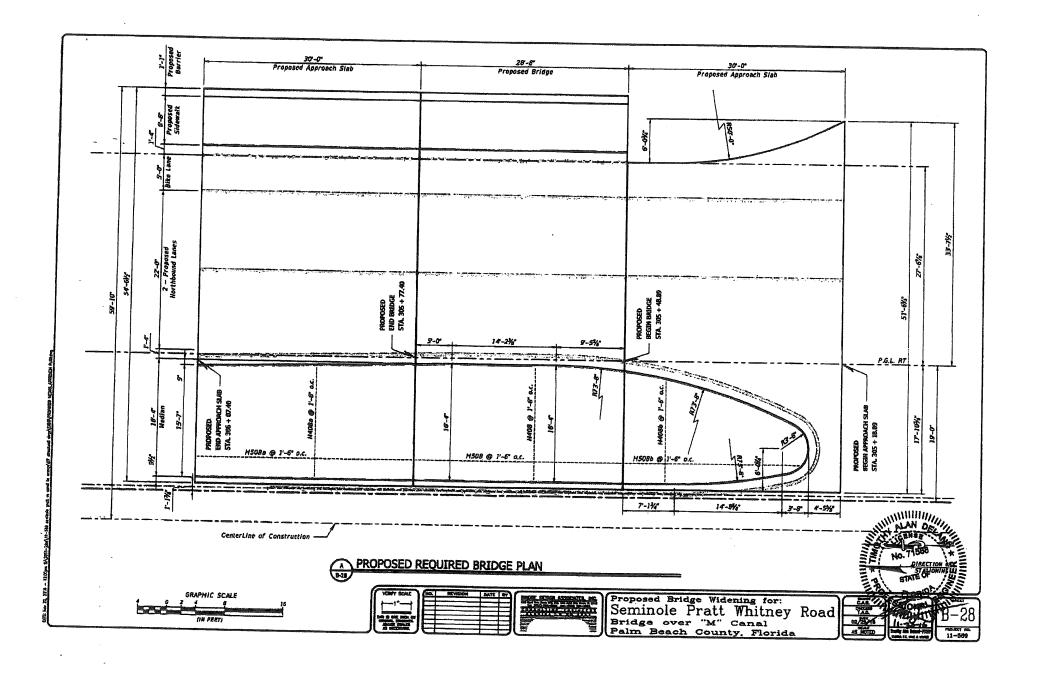
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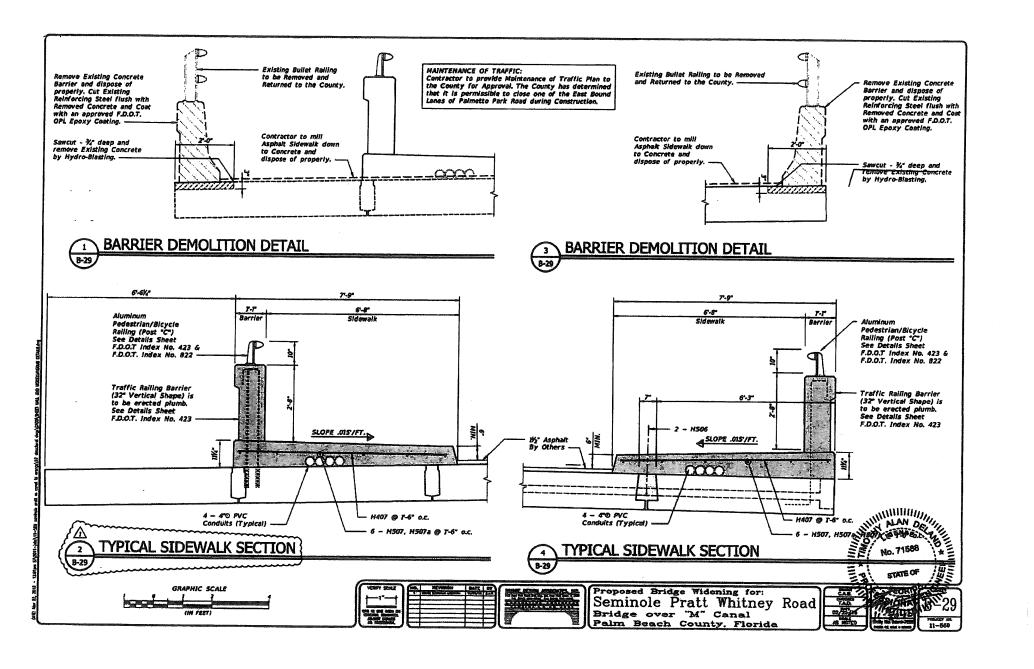
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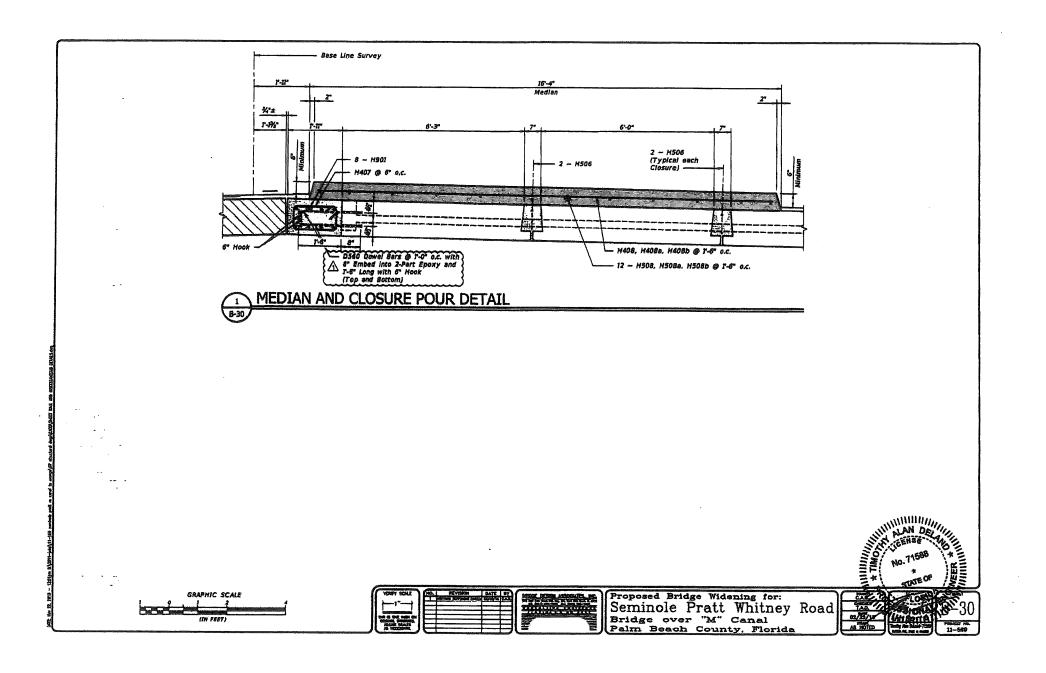
185

207

217







		Load R	ating S	umma	ry De	tails i	or Pr	estre:	sed C	oncre	te Bridge	s (Fla	t Sla	b and	Deck/Gi	rder)	Table Date 02-29-16
								7	able 2	- LRI	R using	Part /	13			-	
	,			Lo	ed Fact	ers	Mom	ent (Stre	ength) er	Stress	(Service)		5	hear (St	rength)		
Level	Limit State	Vehicle	중eight (tons)	ц	вc	Del	Distribution Factor (DF)	Rating Factor	Tons	gories.	Ofmension	Distribution Factor (DF)	Rating Factor	Tons	t ocation	Dimension	Comments: Interior/exterior beam OF Method if other than LRFD, Other appropriate comments
8	Strength I (Inv)		-	1.75	1,25	1.50	0.58	1.36	-	0.5L	14.00	93.0	1.70	-	Bearing	0.00	Homent (M) Interior
Design ad Ratio	Strength I (Op)	HL-93	-	135	1.25	1.50	0.58	1.77	-	0.5L	14.00	0.68	2.21	-	Bearing	0.00	Moment (M) Interior
2 2	Service III (Inv)	HL-93	-	0.80	1.00	1.00	0,58	1.32	-	0.5L	14.00	-	_	-	-	-	4
3	Service III (Op)	HL-93	-	0.80	1.00	1.00	0.58	1.66	_	0.5L	14.00		-	-	-	-	Moment (M) Interior
	Strength I	C5	40	135	1.25	1,50	0,58	2.37	94.96	0.5L	14.00	0.58	2.88	115.07	Bearing	0.00	(M) - Interior
Roting	Strength I	575	40	135	1.25	1.50	0.38	2.52	10484	0,51	14.00	83.0	2.93	117.36	Bearing	0.00	(M) - Interior
Legal o Rot	Strength i	SU4	35	135	1.25	1.50	0.58	1.92	67.20	0.SL	14.00	0,68	2,28	79.77	Bearing	0.00	(M) - Interior
3	Service III	C5	40	0.80	7.00	1.00	0.58	2,23	89.38	0,51	14.00	•	•	-	-	-	
3	Service III	575	40	0.20	1.00	1.00	0.58	2.47	98.67	0,5L	14.00	-	-	-	-	-	(阿) — Interior
	Service III	SU4	35	0.80	1.00	1.00	0.58	1.81	63.25	0.5L	14.00	-	-	-	-	-	
Perah Load Rating	Strength !!	FL120	60	1.35	1.25	1.50	0.58	1.50	89.98	0.4L	11.10	0,68	151	90.54	Bearing	0.00	(M) - Interior
Load	Service I	FL120	60	1.00	1.00	1.00	0.58	2.02	121.33	0.4L	11.10	•	-	-	-	•	(M) - Interior

Abbreviations: Inv - Inventory Op - Operating

General Notes: 1. This table is based on the requirements established in the January 2011 "Structures Manuar".

Table 2 Notes:

1. Permit capacity is determined by using the permit vehicle in all lanes.

2. If the Design Operating Load Rating is greater than 1.4, Load Rating using Legal Vehicles SU4, C5, and ST5 is not required.

3. Service III Design Inventory tensile stress limits = 6VTc, Service III Oesign Operating, Legal, and Permit tensile stress limits = 7.5×TC.

4. Has the AASHTO LRFO Specifications Article 5.8.3.5 longitudinal relaforcament been satisfied? B Yes

Controlling Load Rating								
Limit State	Vehicle	₩elgit (Tons)	Reting Factor					
Service III (Inv)	HL 93	47.5	1.32					



Proposed Bridge Widening for:

Seminole Pratt Whitney Road

Bridge over "M" Canal

Palm Beach County, Florida



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