

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

CONTRACT PLANS

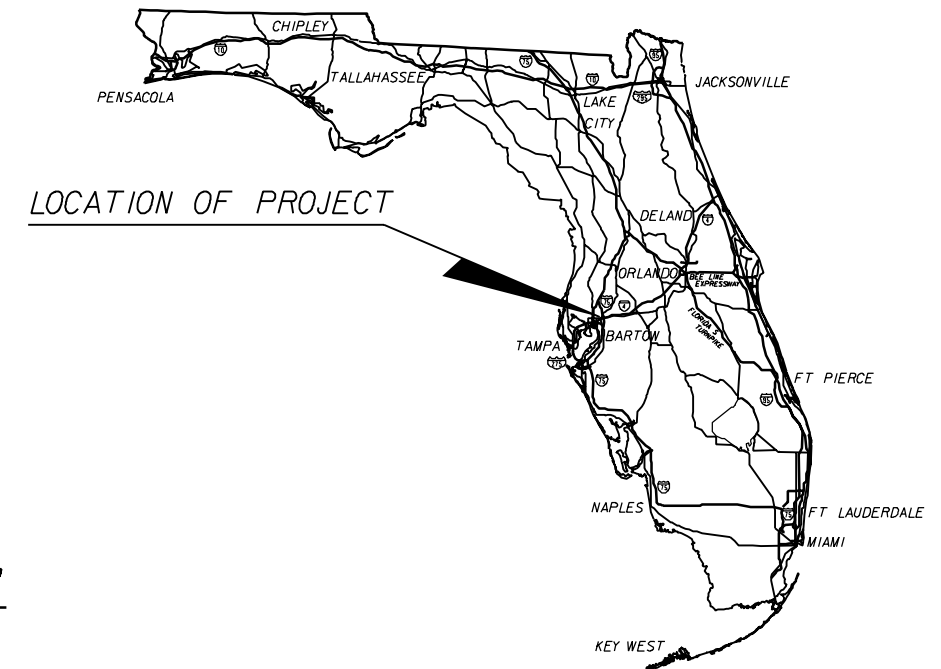
FINANCIAL PROJECT ID 258415-2-52-01
(CORE)
(FEDERAL FUNDS)

HILLSBOROUGH COUNTY (10190)

STATE ROAD NO. 400 (I-4)

I-4 / LEE ROY SELMON EXPRESSWAY INTERCHANGE
(NORTH OF 7th AVE.)

SIGNING AND PAVEMENT MARKING PLANS



INDEX OF SIGNING AND PAVEMENT MARKING PLANS

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SIGNING AND PAVEMENT MARKING SHOP DRAWINGS
TO BE SUBMITTED TO:

EOR: BIJAN BEHZADI, P.E.
5405 WEST CYPRESS ST.
SUITE 300
TAMPA, FLORIDA 33607
(813) 289-5300

PLANS PREPARED BY:



PB Americas, Inc.
5405 WEST CYPRESS ST.
SUITE 300
TAMPA, FL. 33607
(813) 289-5300
VENDOR NUMBER 111531569
CONTRACT NUMBER: C-5068
ENGINEERING BUSINESS NUMBER: EB00001462
CERT. OF AUTH. NO. 01462
NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

SIGNING AND PAVEMENT
MARKING PLANS
ENGINEER OF RECORD: BIJAN BEHZADI, P.E.

P.E. NO. 43868


FISCAL YEAR	SHEET NO.
10	S-1

FDOT PROJECT MANAGER: ADAM S. PEREZ, P.E.

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET		
			S-17		S-18		S-19		S-20		S-21		S-22		S-23		S-24		S-25		S-26		PLAN	FINAL		PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
700-20-11	SINGLE POST SIGN (LESS THAN 12 SF)	AS										2		5									7				
700-20-12	SINGLE POST SIGN (12-20 SF)	AS			2				1			1		1		1							6				
700-20-60	SINGLE POST SIGN (REMOVE)	AS																									
700-21-12	MULTI-POST SIGN (F&I) (51 TO 100)	AS																1					1				
700-21-14	MULTI-POST SIGN (F&I) (151 TO 200)	AS																									
700-21-16	MULTI-POST SIGN (F&I) (251 TO 300)	AS																									
700-22-600	OVERHEAD TRUSS SPAN SIGN (REMOVE)	AS																									
700-23-600	OVERHEAD TRUSS CANTILEVER SIGN (REMOVE)	AS																									
700-38-036	SIGN LIGHTED OVERHEAD TRUSS (MONOTUBE) (41-60) (501 TO 600)	AS																									
700-38-058	SIGN LIGHTED OVERHEAD TRUSS (MONOTUBE) (81-100) (OVER 700)	AS																					1				
700-38-066	SIGN LIGHTED OVERHEAD TRUSS (MONOTUBE) (101-120) (501 TO 600)	AS																									
700-39-36	SIGN LIGHTED OVERHEAD CANTILEVER (MONOTUBE) (31-40) (251-300)	AS												1									1				
700-39-37	SIGN LIGHTED OVERHEAD CANTILEVER (MONOTUBE) (31-40) (OVER 300)	AS																	1				1				
700-39-44	SIGN LIGHTED OVERHEAD CANTILEVER (MONOTUBE) (41-50) (151 TO 200)	AS																									
700-39-47	SIGN LIGHTED OVERHEAD CANTILEVER (MONOTUBE) (41-50) (OVER 300)	AS																									
700-39-57	SIGN LIGHTED OVERHEAD CANTILEVER (MONOTUBE) (51-60) (OVER 300)	AS																									
700-48-12	SIGN PANEL (F&I) (101 TO 200)	EA												1									1				
700-48-14	SIGN PANEL (F&I) (301 TO 400)	EA																									
700-48-19	SIGN PANEL (F&I) (16 TO 100)	EA		1																			1				
700-48-39	SIGN PANEL (OVERLAY) (16 TO 100)	EA																									
700-48-46	SIGN PANEL (RELOCATE) (501 TO 600)	EA																									
700-48-52	SIGN PANEL (REPLACE) (101 TO 200)	EA												1									2				
700-48-60	SIGN PANEL (REMOVE)	EA												1									2				
705-11-1	DELINEATOR (FLEXIBLE TUBULAR)	EA					2		2					1		2		2		2		11					
706-3	RETRO-REFLECTIVE PAVEMENT MARKER	EA																									
	WHITE/RED			113		96		57		115		80		91		88		120		51		54		865			
	YELLOW/RED						12		18		16		17		17		18		17		10		125				
711-11-111	SOLID TRAFFIC STRIPE (6" WHITE) (THERMOPLASTIC)	NM	0.130		0.150		0.090		0.080		0.040		0.260		0.200		0.130		0.130		0.140		1.350				
711-11-122	SOLID TRAFFIC STRIPE (8" WHITE) (THERMOPLASTIC)	LF	795				218		1188		1005				377		1403		26				5012				
711-11-124	SOLID TRAFFIC STRIPE (18" WHITE) (THERMOPLASTIC)	LF	113						160		232				232		713						1450				
711-11-211	SOLID TRAFFIC STRIPE (6" YELLOW) (THERMOPLASTIC)	NM	0.130		0.150		0.130		0.180		0.250		0.260		0.220		0.134		0.134		0.140		1.728				
711-11-222	SOLID TRAFFIC STRIPE (8" YELLOW) (THERMOPLASTIC)	LF																									
711-11-224	SOLID TRAFFIC STRIPE (18" YELLOW) (THERMOPLASTIC)	LF																									
711-14-160	THERMOPLASTIC PAVEMENT MESSAGE (PREFORMED)	EA																									
	MERGE			1		2							1		2								6				
	EXIT NUMBER																				1		1				
711-14-170	THERMOPLASTIC DIRECTIONAL ARROW (PREFORMED)	EA																									
	MERGE			1		2						1		2									6				
711-17	THERMOPLASTIC (REMOVE)	SF	636		1422		902		802		932		1201		770		606		965		1045		9281				
713-102-533	PREFORMED TAPE (WHITE W/BLACK CONTRAST XSKIPX9")	GM																					1.107				

REVISIONS						(CORE)						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES (2)			SHEET NO. S-3	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID											
						SR 400	HILLSBOROUGH	258415-2-52-01											



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 (813) 289-5300
 Cert. of Auth. No. 01462
 EOR# BIJAN BEHZADI, P.E., No. 43868

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

FOR SIGNING AND PAVEMENT MARKING GENERAL NOTES AND PAY ITEM NOTES SEE
 FPID NO. 258415-1-52-01

PAY ITEM NOTES: (FPID NO. 258415-2 ONLY)

1. PAY ITEM NUMBER SERIES 700-38-OXX AND 700-39-OXX ARE FOR THE FURNISHING AND INSTALLING THE MONOTUBE SIGN STRUCTURES. FOR STRUCTURAL DETAILS SEE SHEETS S-62 TO S-72.
2. PAY ITEMS 700-38-036, 700-38-058, 700-38-066, 700-39-36, 700-39-37, 700-39-44, 700-39-47 AND 700-39-57 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING LUMINAIRES, GALVANIZED RGS CONDUIT, CONDUCTORS, AND NEMA WEATHERPROOF ENCLOSURES, LOCKABLE WITH 30 AMP BREAKER MOUNTED ON THE SIGN STRUCTURE AWAY FROM TRAFFIC AS SPECIFIED IN INDEX #17505. REFER TO ROADWAY LIGHTING PLANS FOR POWER SERVICE DETAILS.
3. PAY ITEMS 700-38-036, 700-38-058, 700-38-066, 700-39-36, 700-39-37, 700-39-44, 700-39-47 AND 700-39-57 SHALL INCLUDE THE COST OF PAINTING THE ENTIRE MONOTUBE SIGN STRUCTURE, HARDWARE, AND EXPOSED LUMINARY SUPPORT MEMBERS WHICH ARE NOT LOCATED BEHIND SIGN PANELS SHALL BE PAINTED IN ACCORDANCE WITH:

RAL 1013 (GLOSS); FED-STD-595B-17778
 MANUFACTURERS: TIGER DRY LAC USA, INC. (POWDER COATING), CARDINAL INDUSTRIAL FINISHES (TGIC POLYESTER POWER COATING) OR APPROVED EQUAL. SEE SHEET S-62 TO S-72 FOR STRUCTURAL DETAILS.

THE BACK OF THE SIGN PANELS INCLUDING WIND BEAMS AND HANGERS AS WELL AS OTHER STRUCTURAL SUPPORTS, HARDWARE, AND LUMINARY SUPPORT MEMBERS LOCATED BEHIND SIGN PANELS SHALL BE PAINTED IN ACCORDANCE WITH:

RAL 1019 (SATIN FINISH); FED-STD-595B-20372
 MANUFACTURERS: TIGER DRY LAC USA, INC. (POWDER COATING), CARDINAL INDUSTRIAL FINISHES (TGIC POLYESTER POWDER COATING) OR APPROVED EQUAL. SEE SHEETS S-62 TO S-72 FOR THE STRUCTURAL DETAILS.

CONCRETE PEDESTALS FOR SIGN STRUCTURES SHALL BE PAINTED IN ACCORDANCE WITH:

RAL 1013 (SATIN FINISH); FED-STD-595B-27778
 MANUFACTURERS: TIGER DRY LAC USA, INC. (POWDER COATING), CARDINAL INDUSTRIAL FINISHES (TGIC POLYESTER POWDER COATING) OR APPROVED EQUAL. SEE SHEETS S-62 TO S-72 FOR THE STRUCTURAL DETAILS.

CONCRETE PEDESTALS FOR SIGN STRUCTURES (RUSTICATIONS-RECESS COLOR) SHALL BE PAINTED IN ACCORDANCE WITH:

COLORLIFE WITCH BAY / CL 2264D (SATIN FINISH); FED-STD-595B-25240
 MANUFACTURERS: GENERAL PAINT OR APPROVED EQUAL. SEE SHEETS S-62 TO S-72 FOR THE STRUCTURAL DETAILS.

EXPOSED CONDUIT SHALL BE PAINTED TO MATCH THE ELEMENT THAT IT IS BEING CONNECTED TO ON THE STRUCTURE. SIGN STRUCTURE SHALL INCLUDE A 1 INCH SCHEDULE 40 PVC CONDUIT FOR SIGN LIGHTING.

THE MATING SURFACES OF BOLTED SPLICES SHALL NOT BE PAINTED.

4. PAY ITEMS 700-21-12, 700-21-14, AND 700-21-16

SINGLE COLUMN AND MULTI-POST GROUND MOUNTED SIGNS SHALL INCLUDE THE COST OF PAINTING THE ENTIRE MULTI POST SIGN STRUCTURE.

SUPPORTS SHALL BE PAINTED IN ACCORDANCE WITH:

RAL 1013 (SMOOTH GLOSSY); FED-STD-595B-17778
 MANUFACTURERS: TIGER DRY LAC USA, INC. (POWDER COATING), CARDINAL INDUSTRIAL FINISHES (TGIC POLYESTER POWER COATING) OR APPROVED EQUAL.

THE BACK OF THE SIGN PANELS INCLUDING WIND BEAMS AND HANGERS SHALL BE PAINTED IN ACCORDANCE WITH:

RAL 1019 (SMOOTH GLOSSY); FED-STD-595B-20372
 MANUFACTURERS: TIGER DRY LAC USA, INC. (POWDER COATING), CARDINAL INDUSTRIAL FINISHES (TGIC POLYESTER POWDER COATING) OR APPROVED EQUAL.

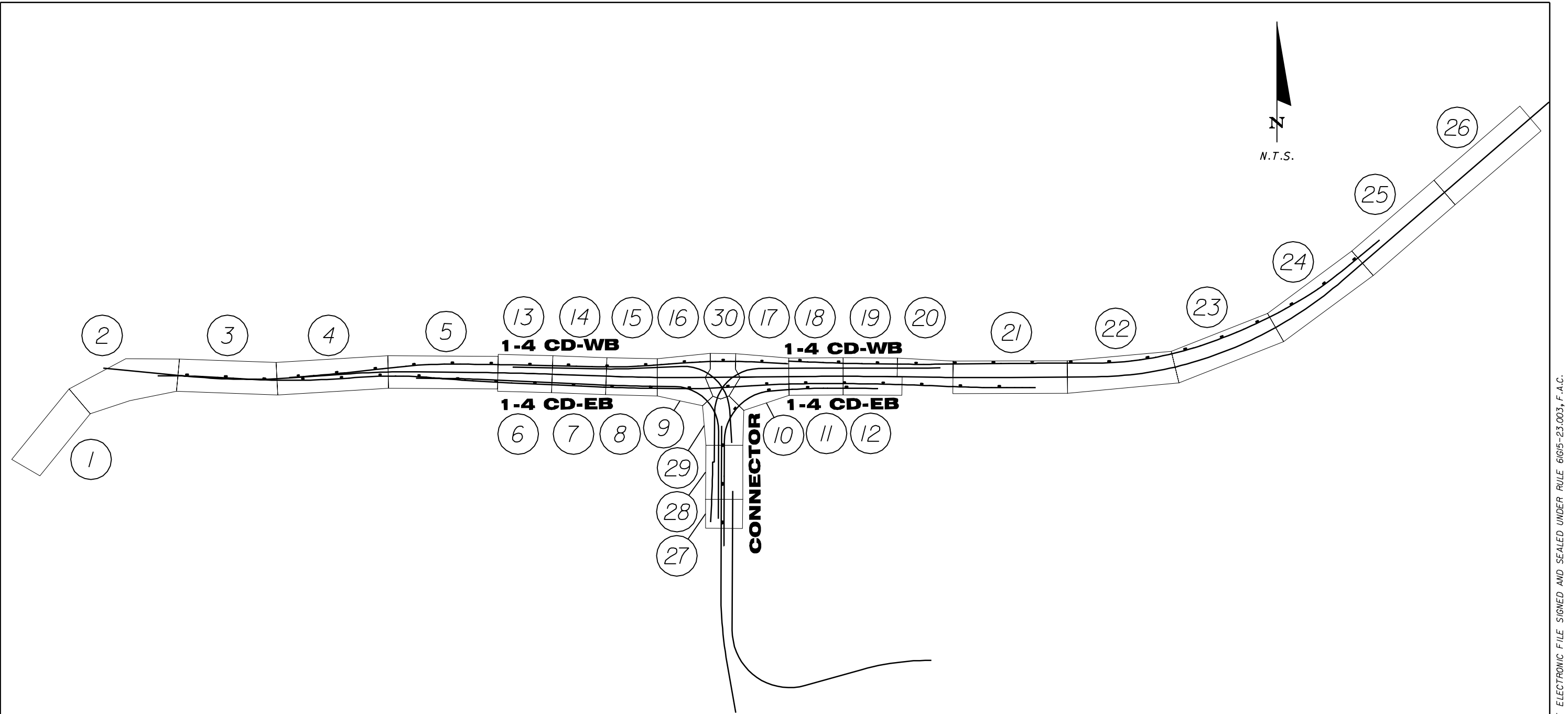
5. PAY ITEMS 700-48-12, 700-48-13, 700-48-14, 700-48-19 AND 700-48-46

PAYMENT FOR DMS SIGN AND SIGN STRUCTURE IS PAID UNDER ITS PLANS AND EXTERNAL LIGHTING FOR STATIC SIGN IS INCLUDED IN STATIC SIGN PANEL ASSEMBLY PAY ITEM NUMBER.


REVISIONS						(CORE)			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	HILLSBOROUGH	258415-2-52-01	GENERAL NOTES
									S-5

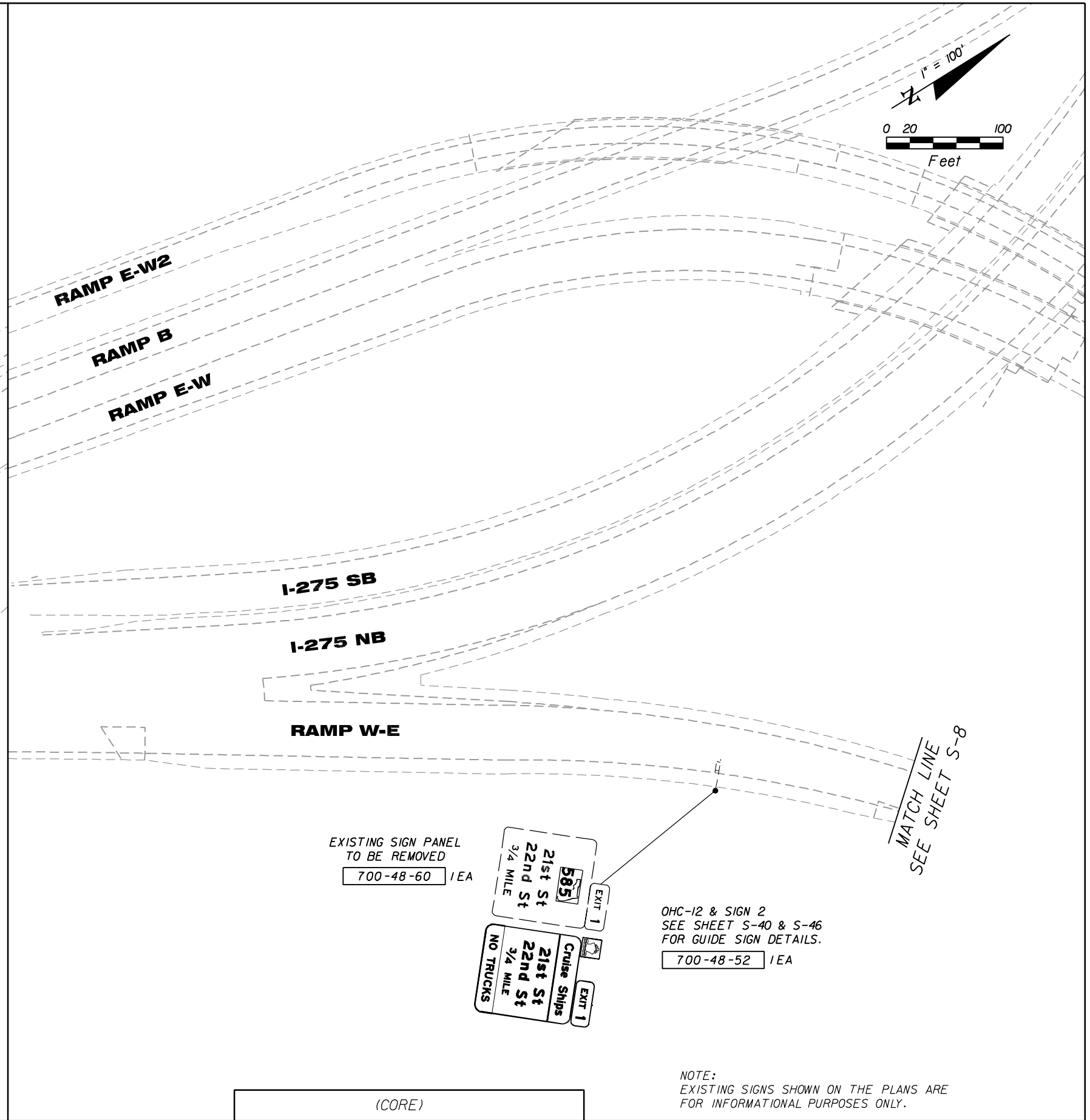
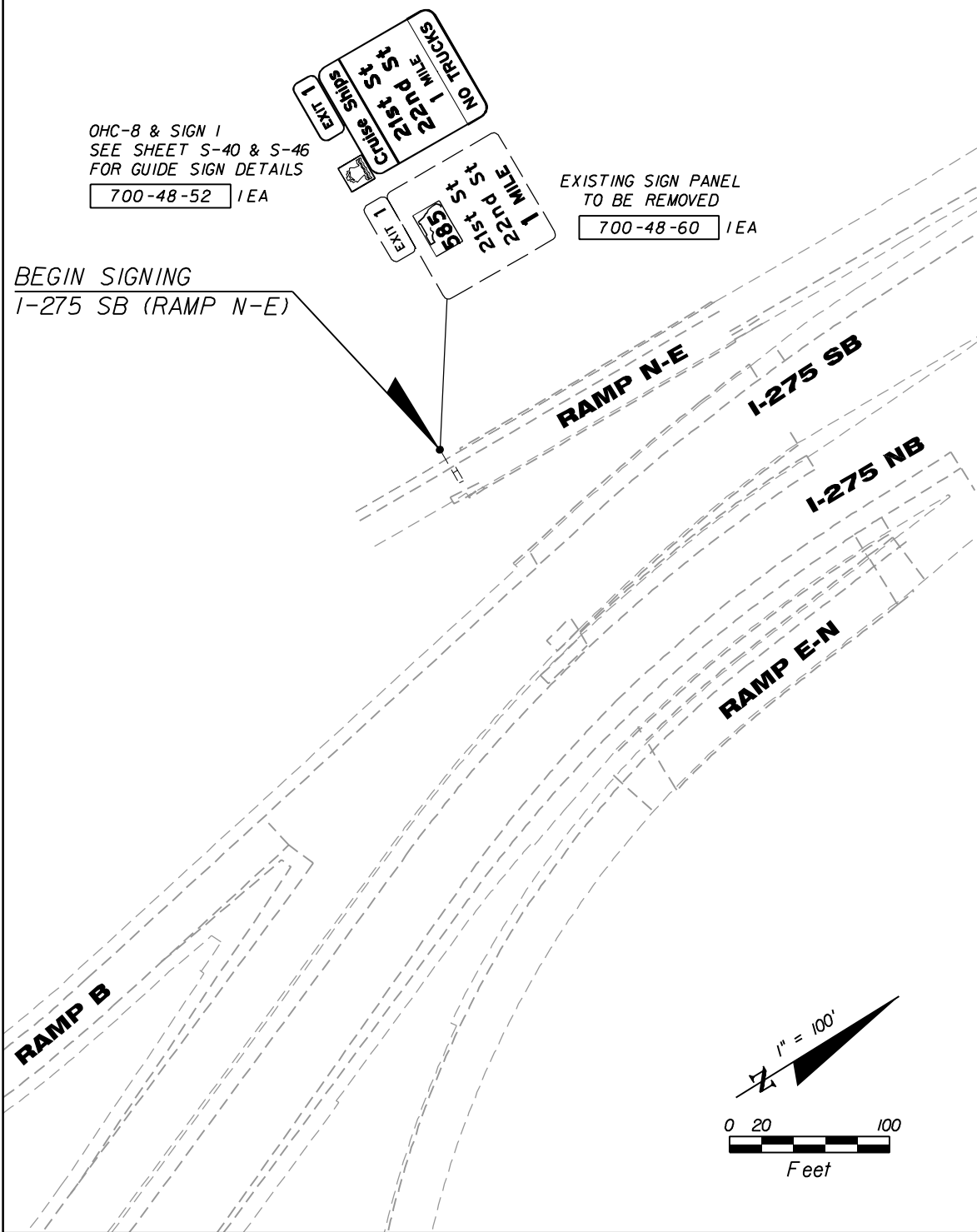
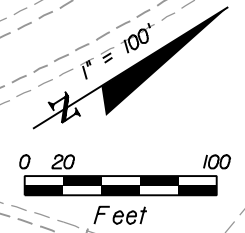
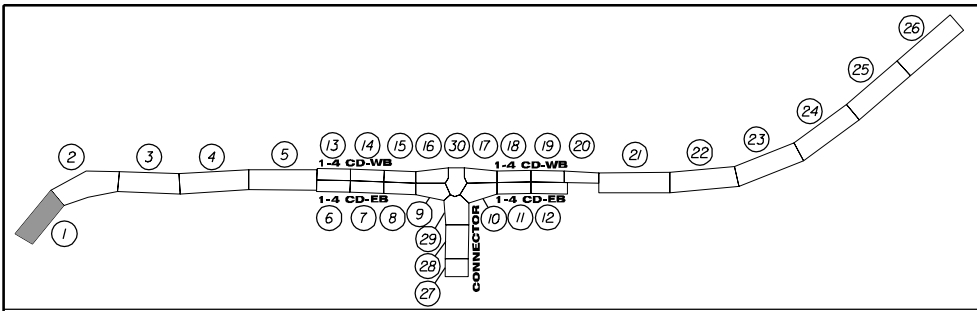


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 EOR: BIJAN BEHZADI, P.E., No. 43868



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REVISIONS						 <p>PB Americas, Inc. 5405 West Cypress St. Suite 300 Tampa, Florida 33607 (813) 289-5300 Cert. of Auth. No. 01462 EOR: BIJAN BEHZADI, P.E., No. 43868</p>	(CORE)			<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <p>PROJECT LAYOUT SHEET</p>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-6
							SR 400	HILLSBOROUGH	258415-2-52-01		



NOTE:
EXISTING SIGNS SHOWN ON THE PLANS ARE
FOR INFORMATIONAL PURPOSES ONLY.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

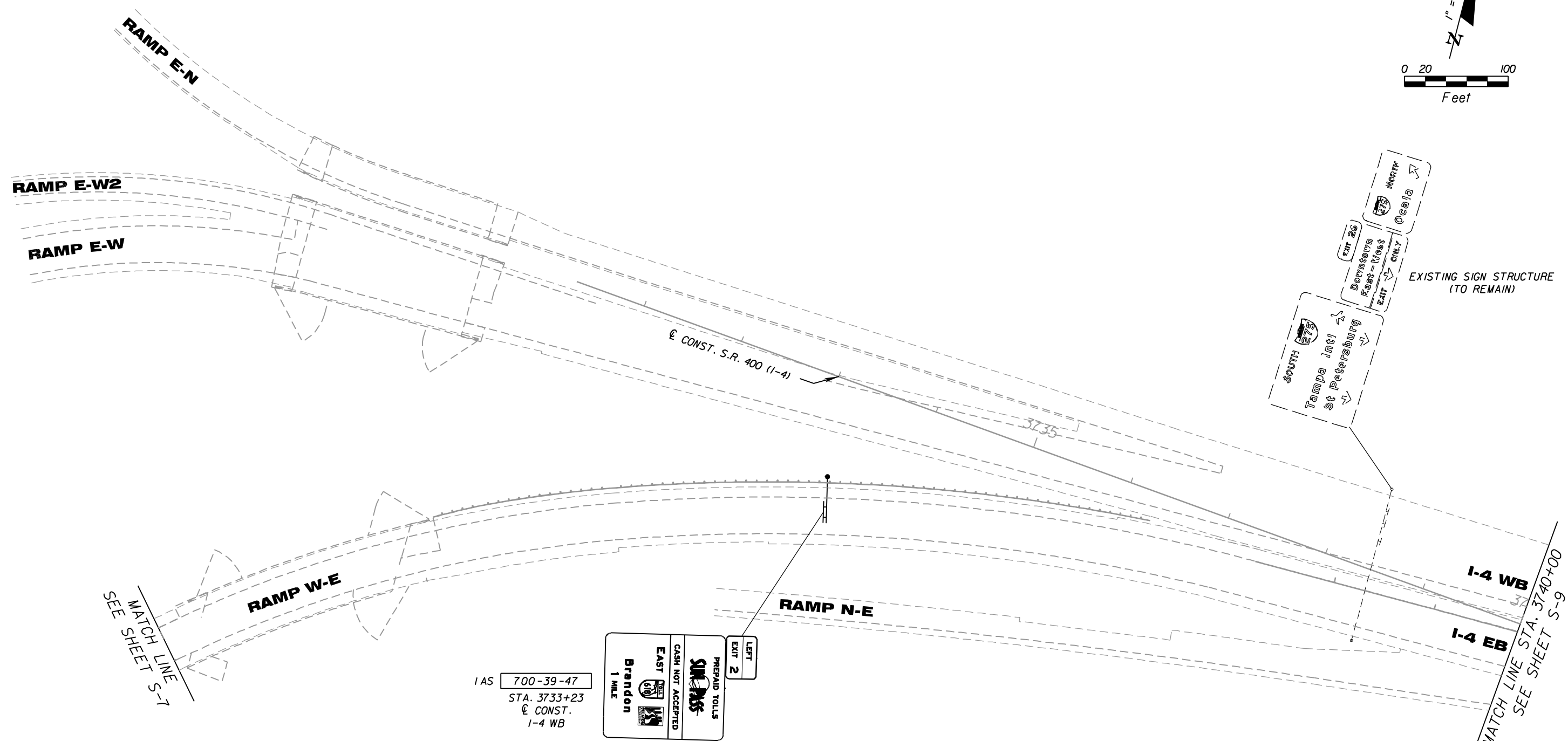
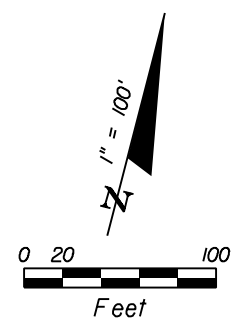
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(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGNING & PAVEMENT
MARKING PLAN (1)

SHEET NO.
S-7

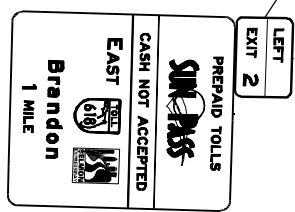
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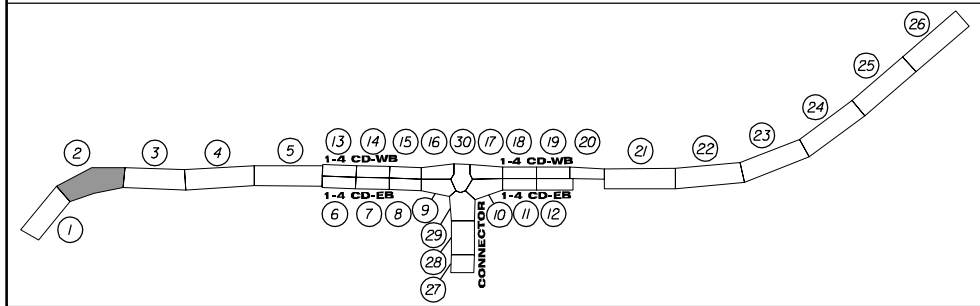
SEE MATCH LINE S-7

MATCH LINE STA. 3740+00
SEE SHEET S-9

1 AS 700-39-47
STA. 3733+23
& CONST.
1-4 WB



SIGN OHC-4
SIGN STRUCTURE NO. 105687
SEE SHEET S-39 FOR GUIDE SIGN
DETAILS AND S-48 FOR
CROSS SECTION



NOTE:
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

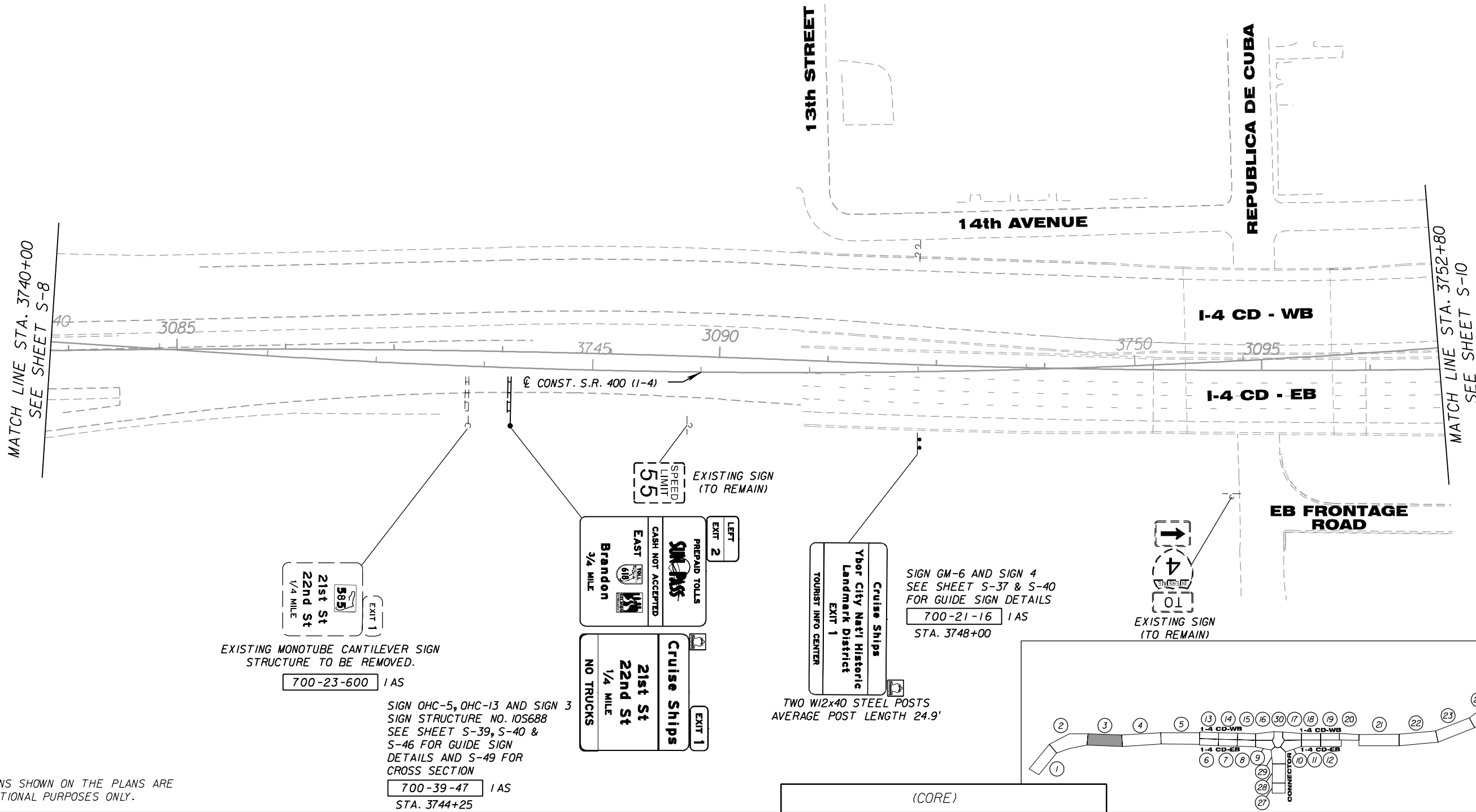
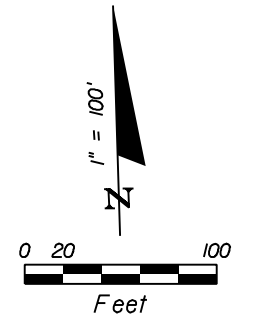
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(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (2)**

SHEET NO.
S-8

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EXISTING MONOTUBE CANTILEVER SIGN STRUCTURE TO BE REMOVED.
 700-23-600 1 AS

SIGN OHC-5, OHC-13 AND SIGN 3 SIGN STRUCTURE NO. 10S688 SEE SHEET S-39, S-40 & S-46 FOR GUIDE SIGN DETAILS AND S-49 FOR CROSS SECTION
 700-39-47 1 AS
 STA. 3744+25

SIGN GM-6 AND SIGN 4 SEE SHEET S-37 & S-40 FOR GUIDE SIGN DETAILS
 700-21-16 1 AS
 STA. 3748+00

TWO W12x40 STEEL POSTS
 AVERAGE POST LENGTH 24.9'

NOTE:
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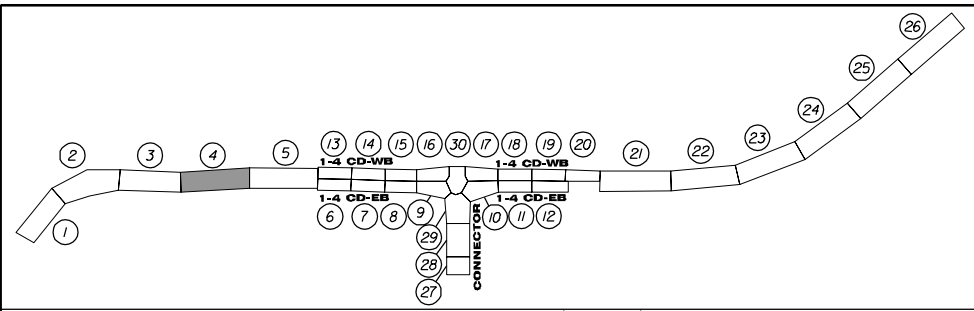
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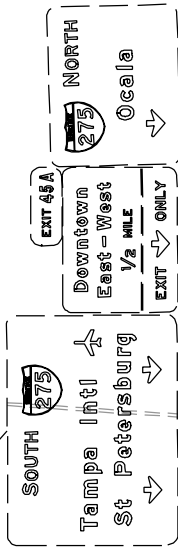
SIGNING & PAVEMENT
MARKING PLAN (3)

SHEET NO.
S-9

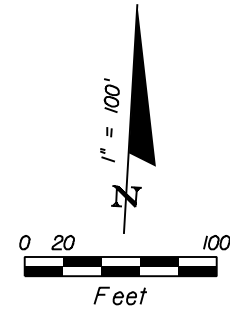
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EXISTING SIGN STRUCTURE (TO REMAIN)

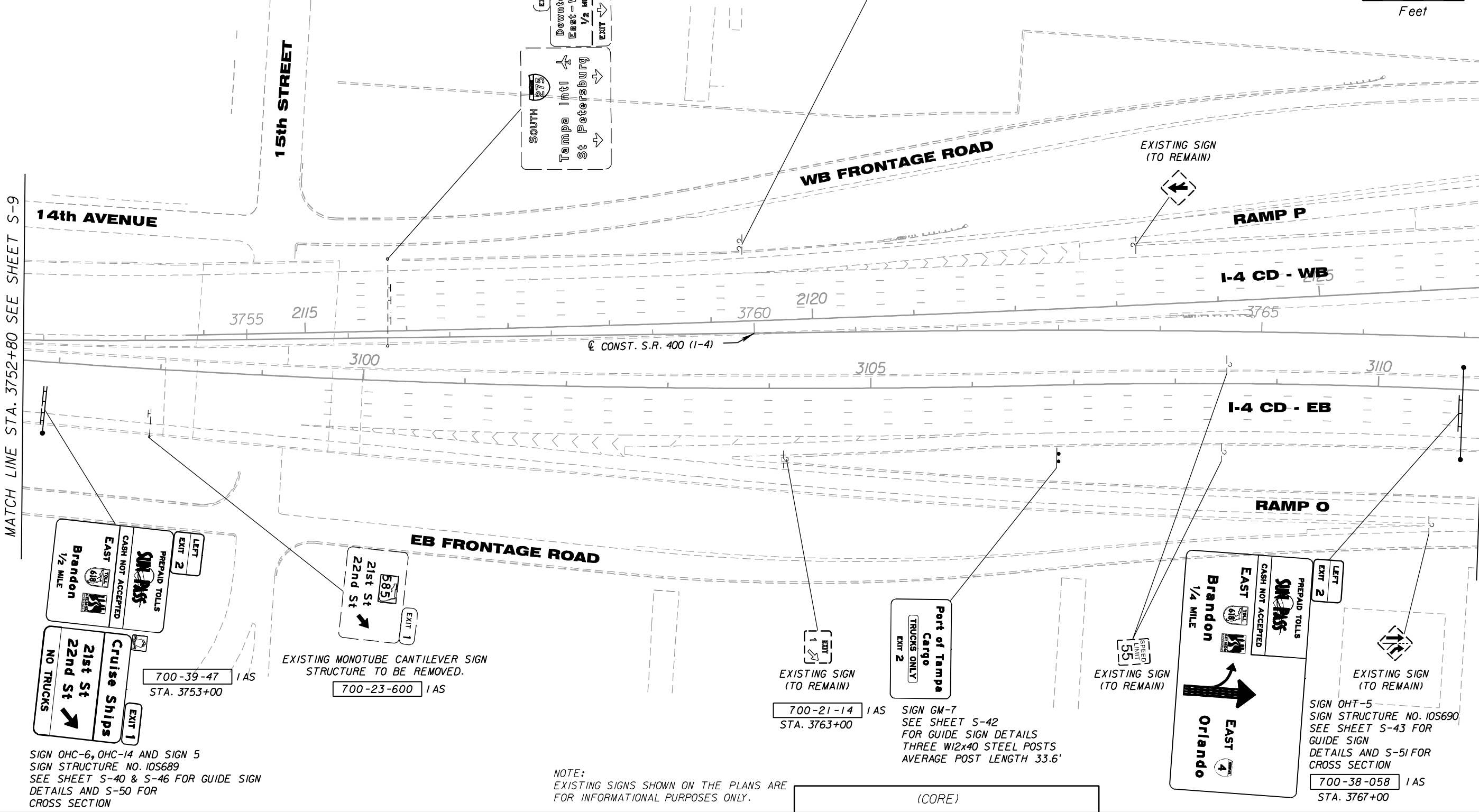


EXISTING SIGN (TO REMAIN)



MATCH LINE STA. 3752+80 SEE SHEET S-9

MATCH LINE STA. 3767+20 SEE SHEET S-11



SIGN OHC-6, OHC-14 AND SIGN 5
SIGN STRUCTURE NO. 105689
SEE SHEET S-40 & S-46 FOR GUIDE SIGN
DETAILS AND S-50 FOR
CROSS SECTION

EXISTING MONOTUBE CANTILEVER SIGN
STRUCTURE TO BE REMOVED.
700-23-600 IAS

700-21-14 IAS STA. 3763+00
SIGN GM-7
SEE SHEET S-42
FOR GUIDE SIGN DETAILS
THREE W12x40 STEEL POSTS
AVERAGE POST LENGTH 33.6'

700-38-058 IAS STA. 3767+00
SIGN OHT-5
SIGN STRUCTURE NO. 105690
SEE SHEET S-43 FOR
GUIDE SIGN
DETAILS AND S-51 FOR
CROSS SECTION

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REVISIONS					
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (4)**

SHEET NO.
S-10

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BEGIN PAVEMENT MARKINGS
 MEET/MATCH EXISTING PAVEMENT MARKINGS
 STA. 2131+00 @ I-4 CD WB
 BEGIN PAVEMENT MARKINGS
 MEET/MATCH EXISTING PAVEMENT MARKINGS
 STA. 3115+95 @ I-4 CD EB

EXISTING DYNAMIC MESSAGE SIGN
 (TO REMAIN)
WB FRONTAGE ROAD

RAMP P
I-4 CD - WB

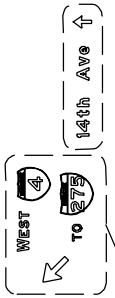
RAMP O
EB FRONTAGE ROAD

RAMP P

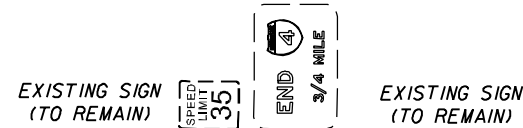
I-4 CD - WB

I-4 CD - EB

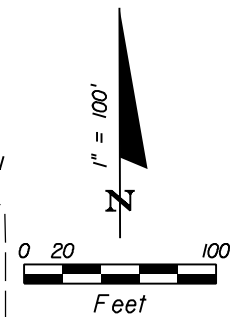
EXISTING SIGN STRUCTURE
 (TO REMAIN)



EXISTING SIGN STRUCTURE
 (TO REMAIN)



EXISTING SIGN
 (TO REMAIN)



9" WHITE SKIP (10'-30') (PERFORMED)
 WITH W/R RPM'S AT 40' SPACING

BEGIN 8" WHITE
 END 6" WHITE
 STA. 2132+85

8" WHITE

6" YELLOW

R2-1
 48"x60"
 2 AS 700-20-12
 STA. 2134+00
 (@ S.R. 400 (I-4) CD-W.B.)



CONST. S.R. 400 (I-4)

9" WHITE SKIP (10'-30') (PERFORMED)
 WITH W/R RPM'S AT 40' SPACING

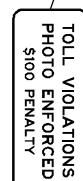
6" YELLOW

EXISTING SIGN
 (TO REMAIN)



8" WHITE

EXISTING SIGN
 (TO REMAIN)

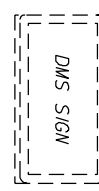


TWO W8x18 STEEL POSTS
 AVERAGE POST LENGTH 17.2'

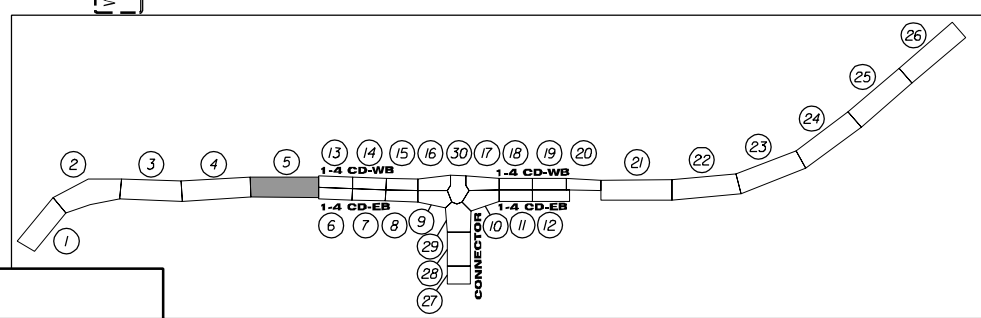
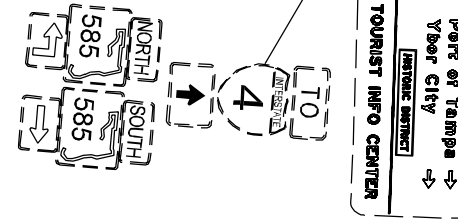
SIGN TPK-VI
 SEE SHEET S-37
 FOR GUIDE SIGN DETAILS
 700-21-12 1 AS
 STA. 3770+00

NOTE:
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 FOR INFORMATIONAL PURPOSES ONLY.

EXISTING DYNAMIC MESSAGE SIGN
 (TO REMAIN)



EXISTING SIGNS (TO REMAIN)



REVISIONS					
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 5405 West Cypress St. Suite 300
 Tampa, Florida 33607
 (813) 289-5300
 Cert. of Auth. No. 01462
 EOR: BIJAN BEHZADI, P.E. No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

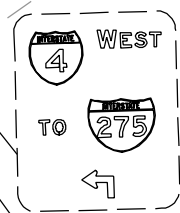
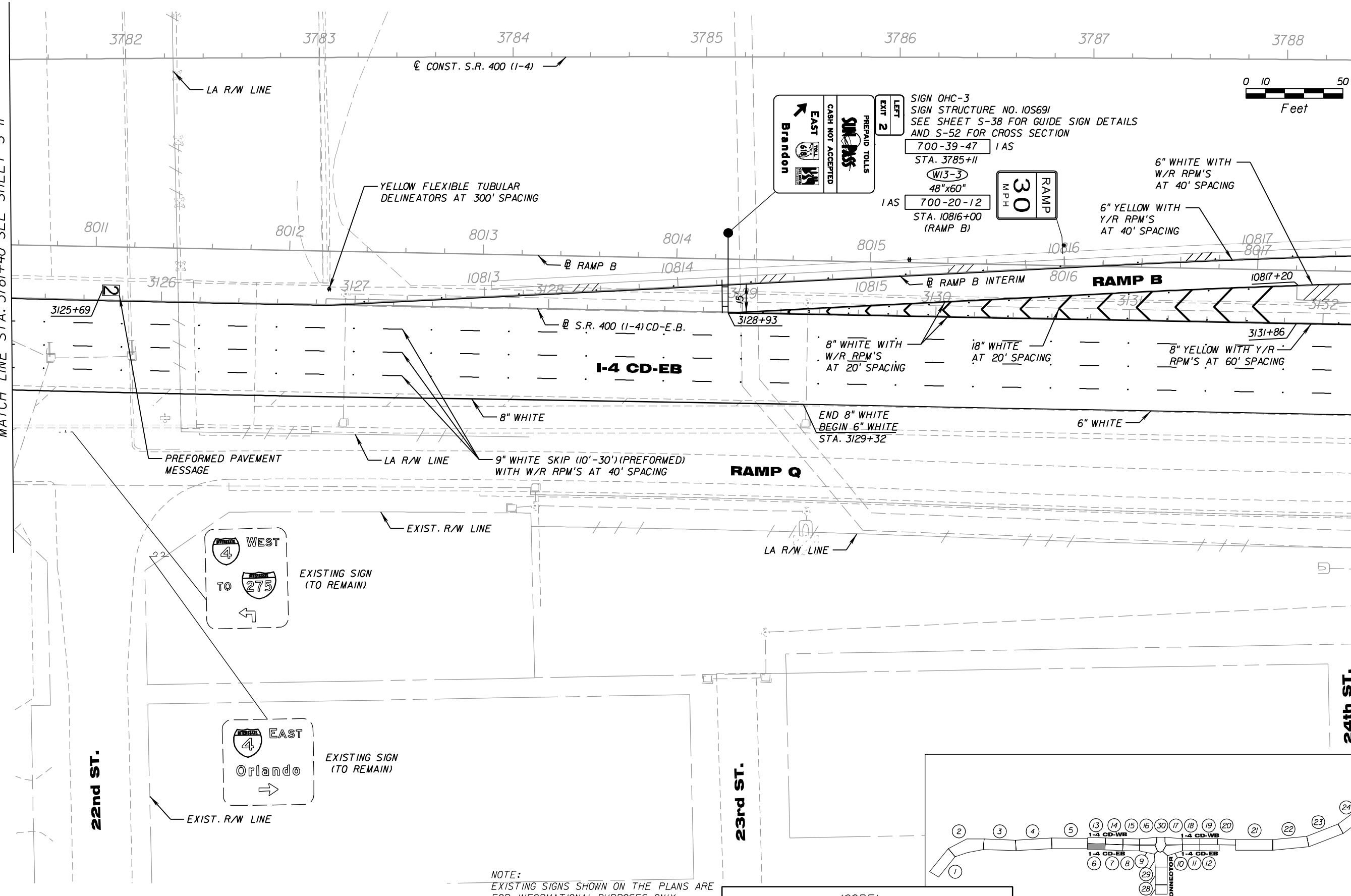
**SIGNING & PAVEMENT
 MARKING PLAN (5)**

SHEET NO.
S-11

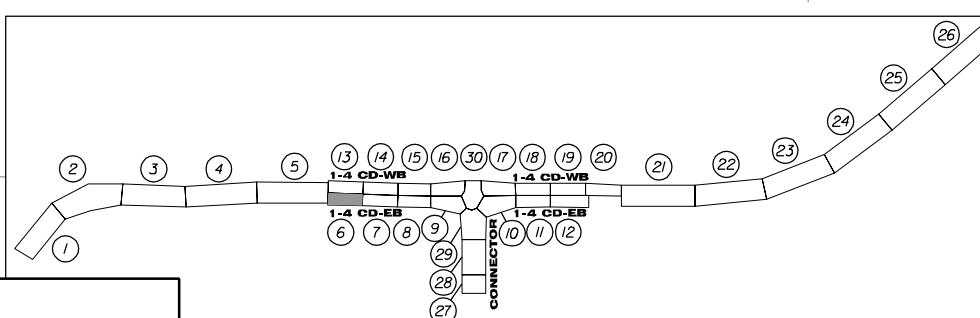
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MATCH LINE STA. 3781+40 SEE SHEET S-11

MATCH LINE STA. 3788+40 SEE SHEET S-13



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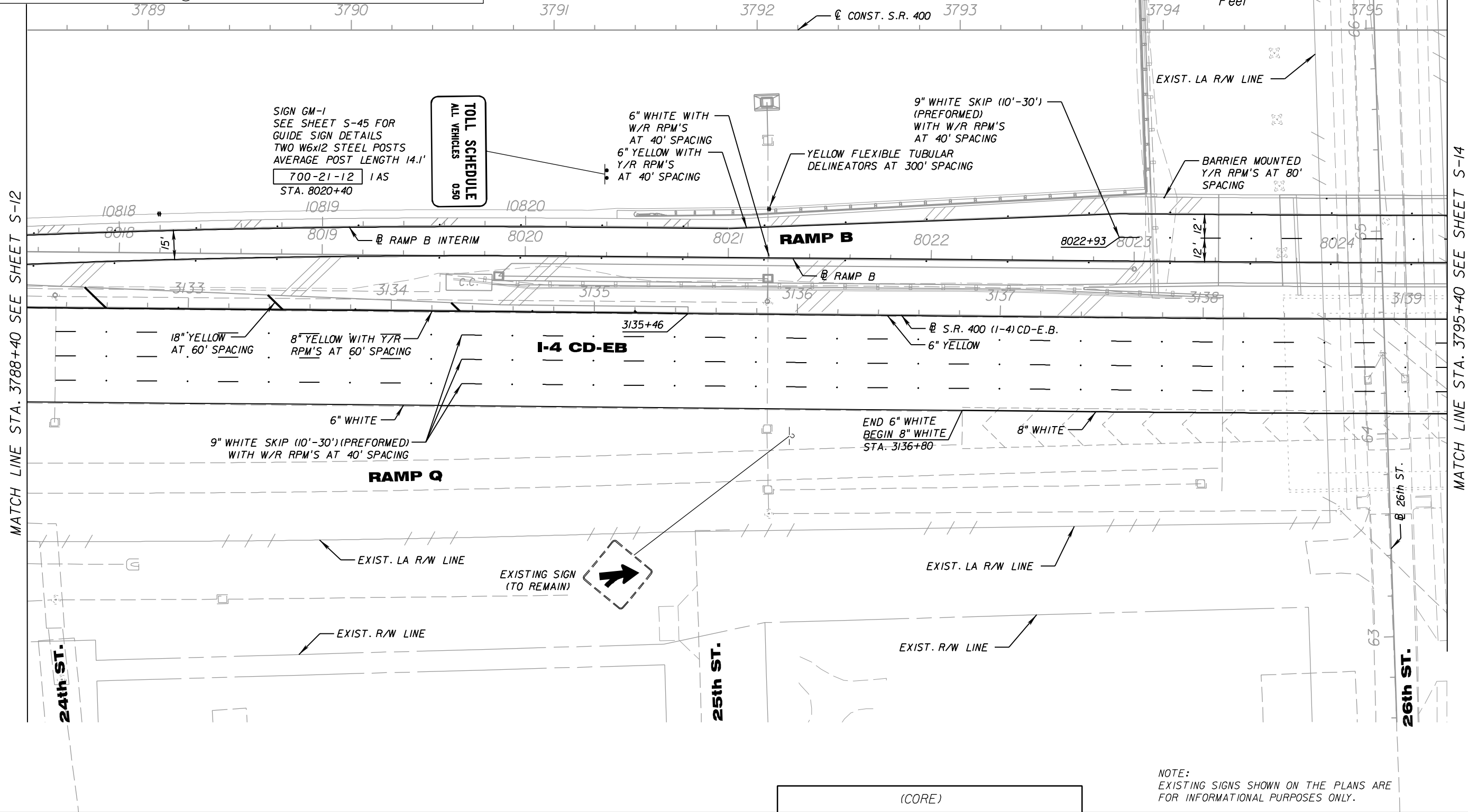
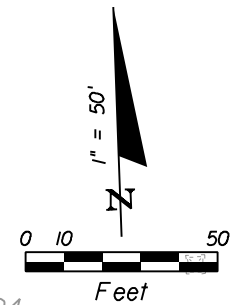
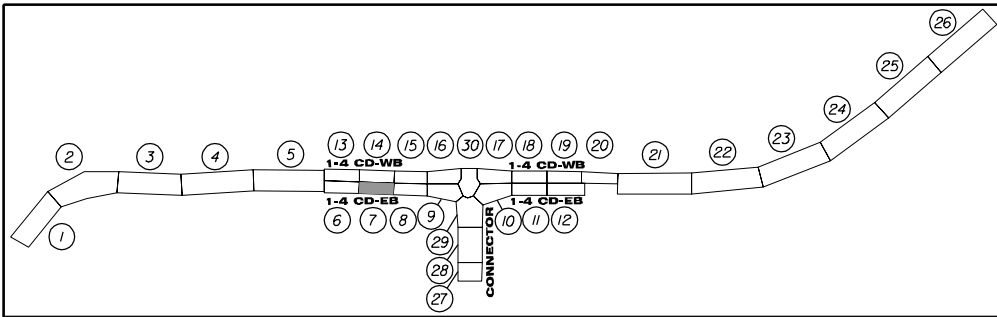
(CORE)		
STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGNING & PAVEMENT

MARKET PLAN (6)

SHEET NO.
S-12

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(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

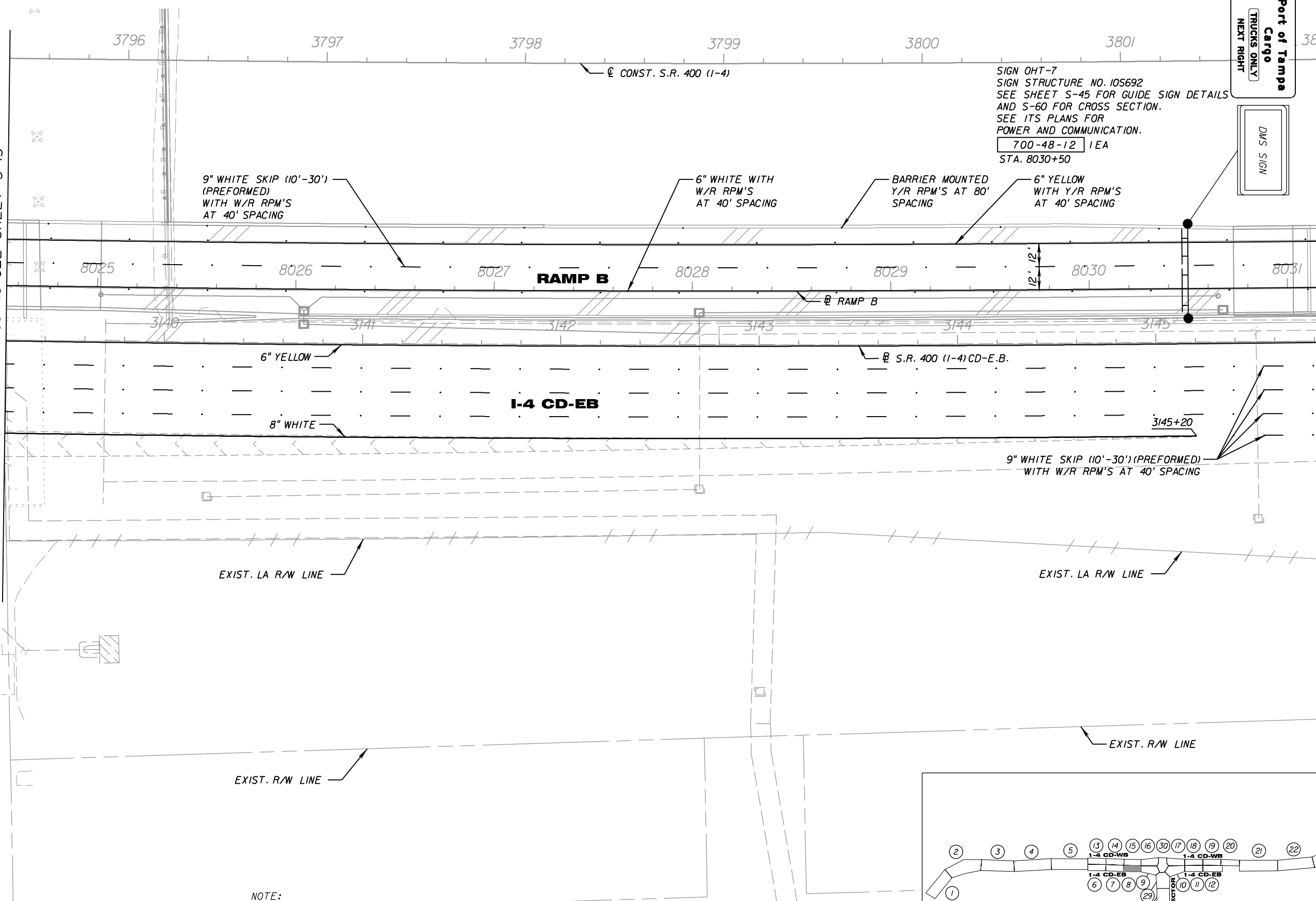
**SIGNING & PAVEMENT
MARKING PLAN (7)**

SHEET NO.
S-13

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MATCH LINE STA. 3795+40 SEE SHEET S-13

MATCH LINE STA. 3802+00 SEE SHEET S-15



SIGN OHT-7
SIGN STRUCTURE NO. 105692
SEE SHEET S-45 FOR GUIDE SIGN DETAILS
AND S-60 FOR CROSS SECTION.
SEE ITS PLANS FOR
POWER AND COMMUNICATION.
700-48-12 IEA
STA. 8030+50

Port of Tampa
Cargo
TRUCKS ONLY
NEXT RIGHT
DMS SIGN

9" WHITE SKIP (10'-30')
(PERFORMED)
WITH W/R RPM'S
AT 40' SPACING

6" WHITE WITH
W/R RPM'S
AT 40' SPACING

BARRIER MOUNTED
Y/R RPM'S AT 80'
SPACING

6" YELLOW
WITH Y/R RPM'S
AT 40' SPACING

6" YELLOW

8" WHITE

I-4 CD-EB

S.R. 400 (I-4) CD-E.B.

9" WHITE SKIP (10'-30') (PERFORMED)
WITH W/R RPM'S AT 40' SPACING

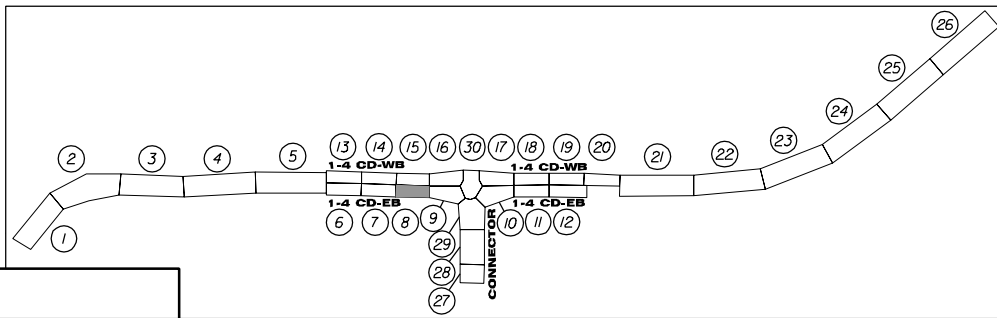
EXIST. LA R/W LINE

EXIST. LA R/W LINE

EXIST. R/W LINE

EXIST. R/W LINE

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DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (8)**

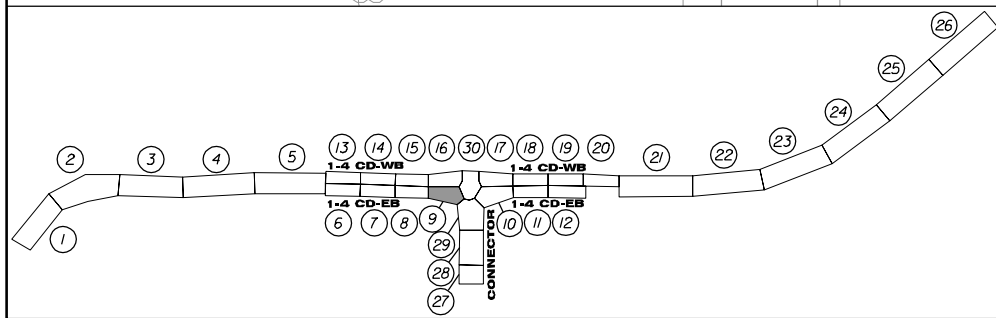
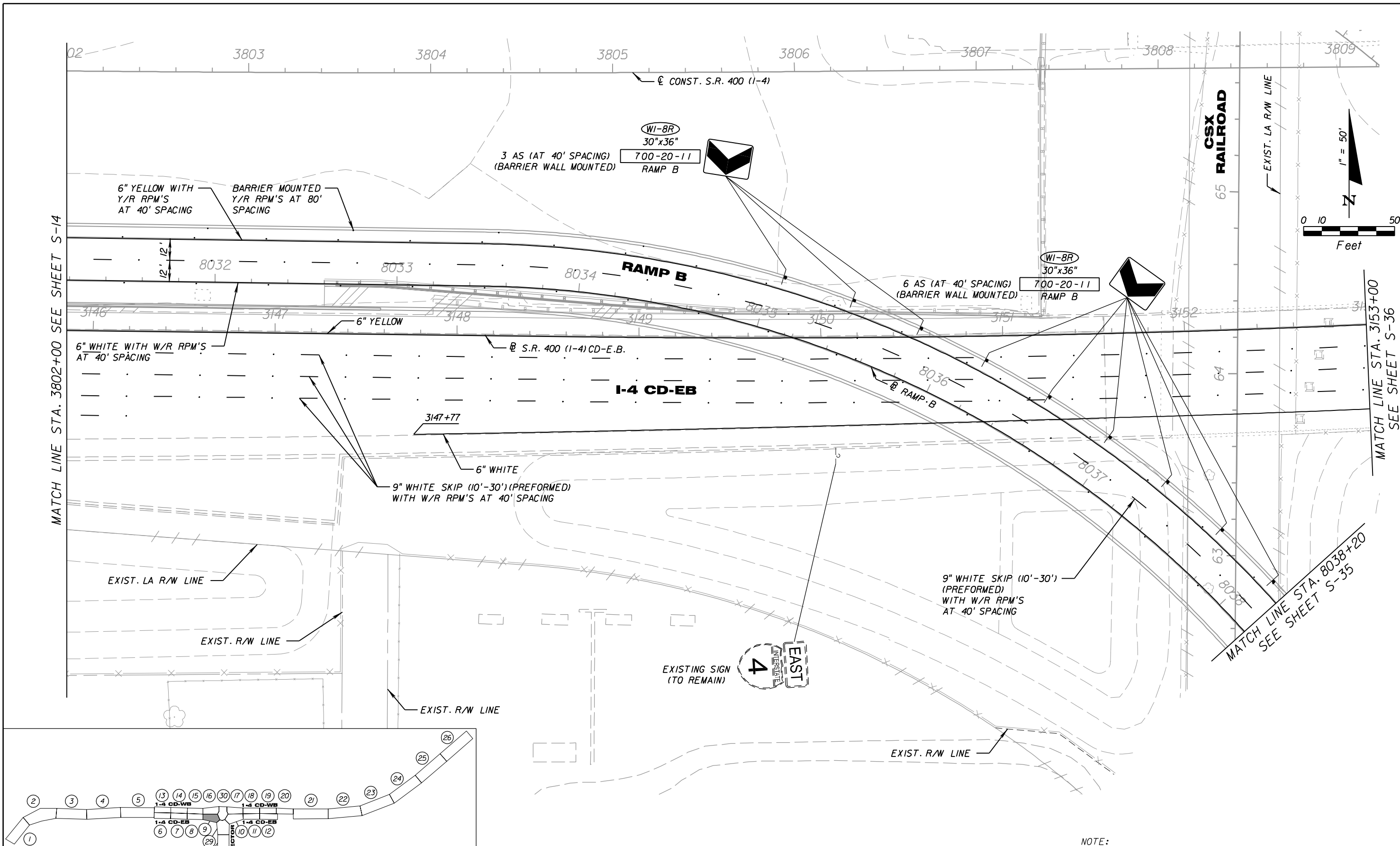
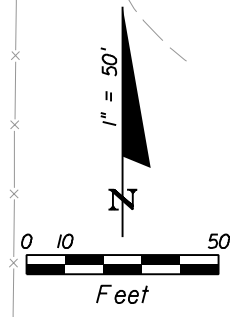
SHEET NO.
S-14

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MATCH LINE STA. 3802+00 SEE SHEET S-14

MATCH LINE STA. 3153+00
SEE SHEET S-36

MATCH LINE STA. 8038+20
SEE SHEET S-35



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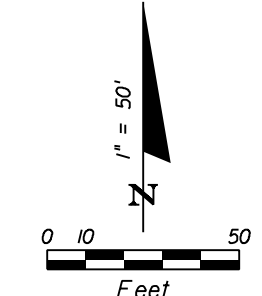
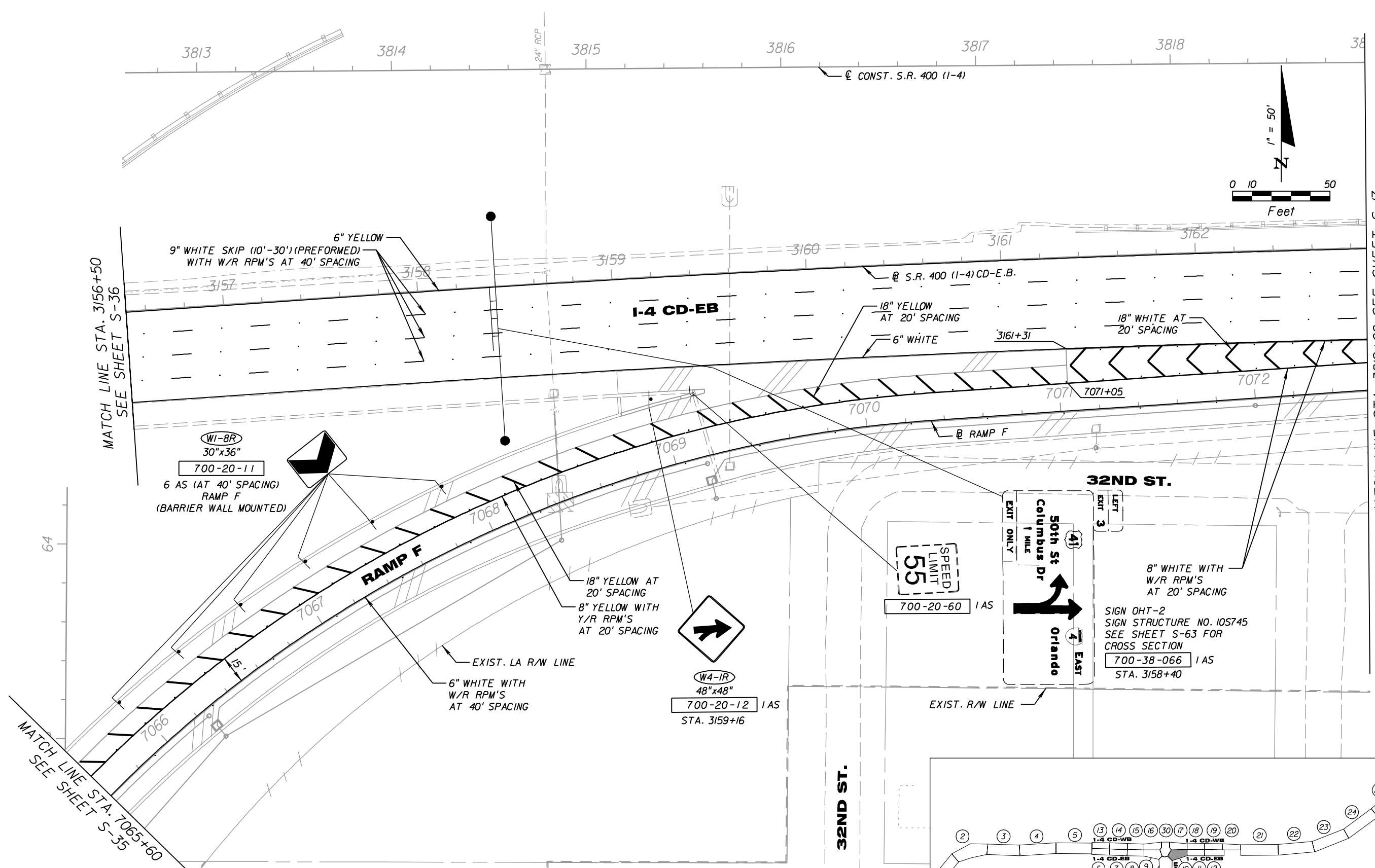
(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

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**SIGNING & PAVEMENT
MARKING PLAN (9)**

SHEET NO.
S-15

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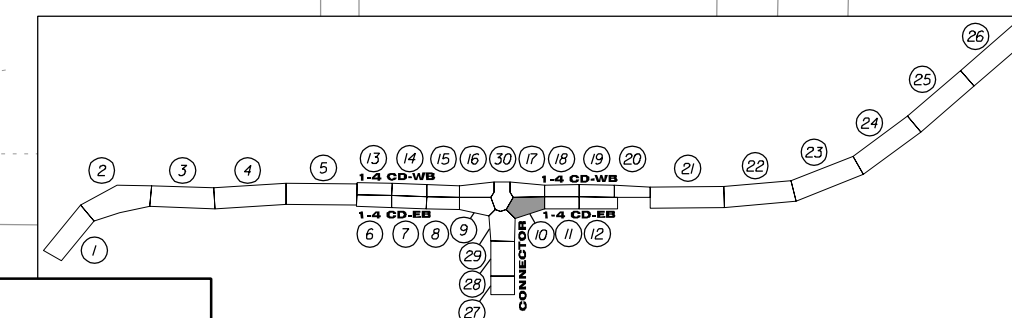


MATCH LINE STA. 3156+50
SEE SHEET S-36

MATCH LINE STA. 3819+00 SEE SHEET S-17

MATCH LINE STA. 7065+60
SEE SHEET S-35

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

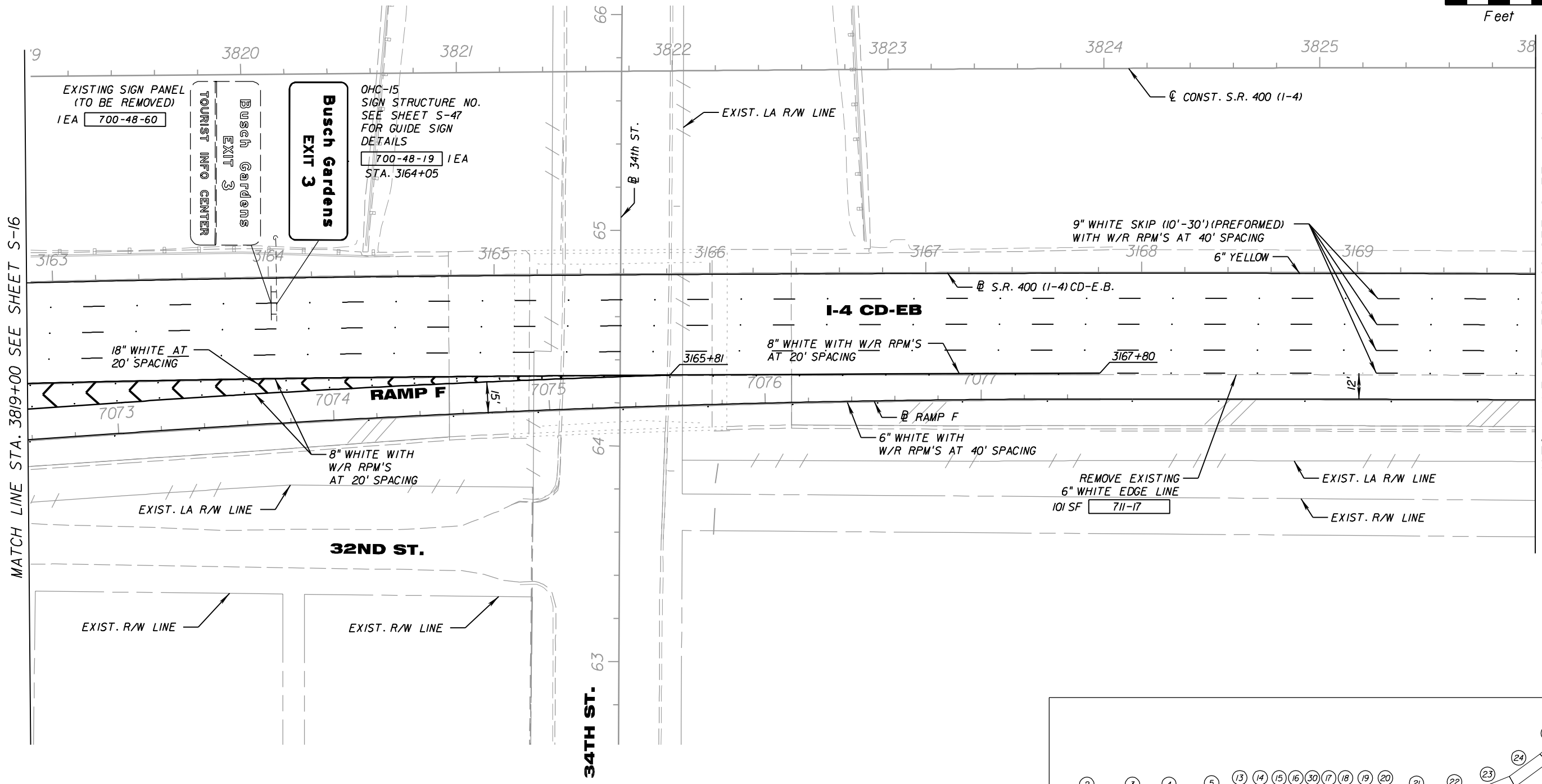
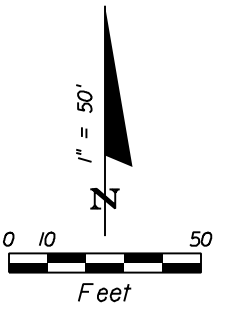
PB Americas, Inc.
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(CORE)		
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (10)**

SHEET NO.
S-16

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



MATCH LINE STA. 3819+00 SEE SHEET S-16

MATCH LINE STA. 3826+00 SEE SHEET S-18

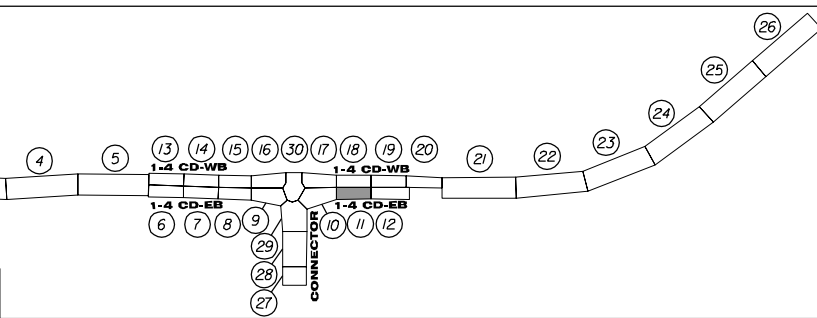
34TH ST. 63

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(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

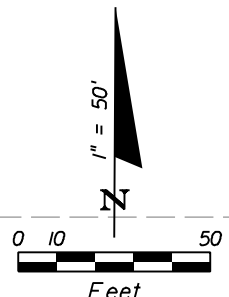
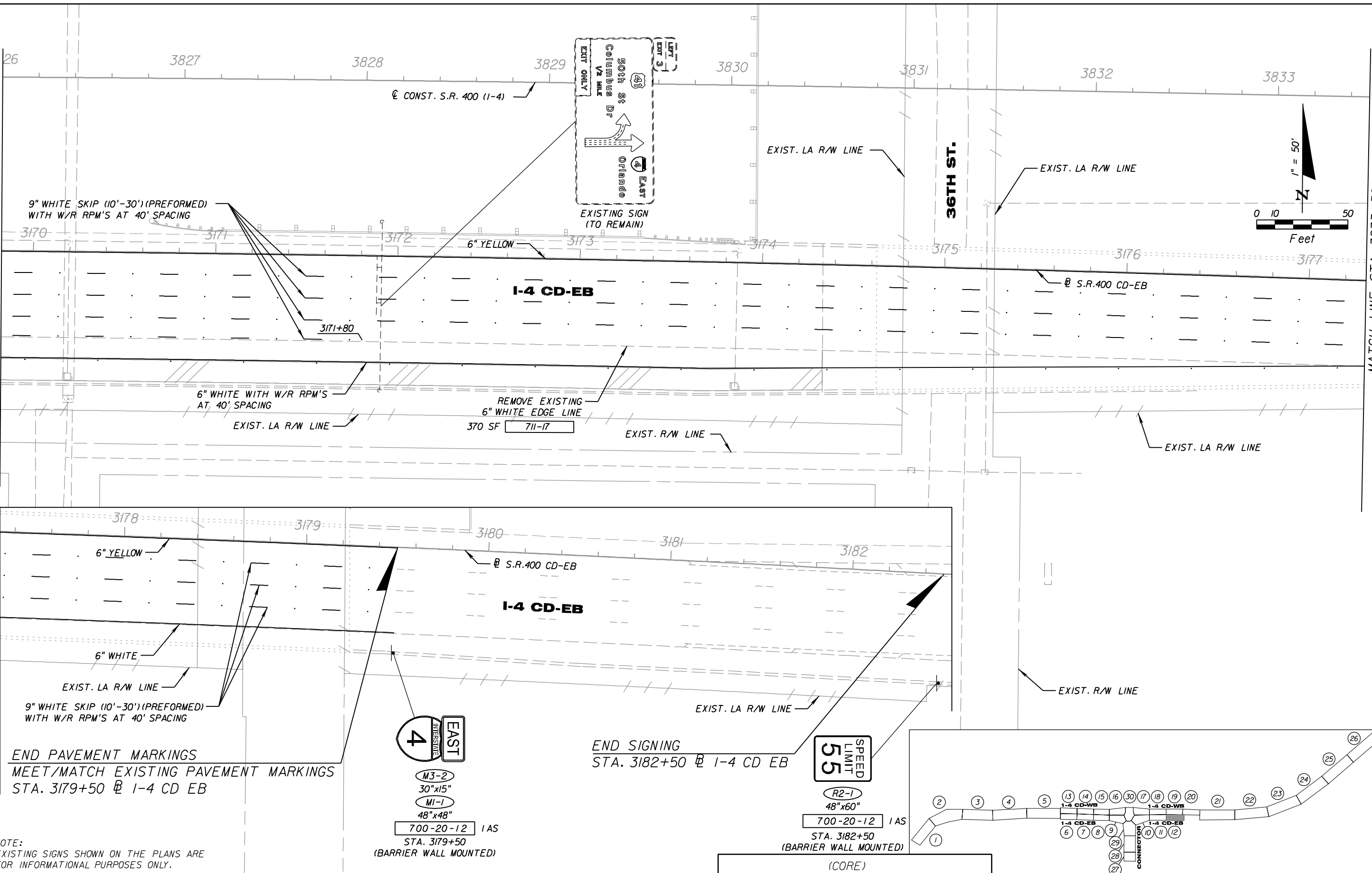


SIGNING & PAVEMENT MARKING PLAN (1)		SHEET NO. S-17
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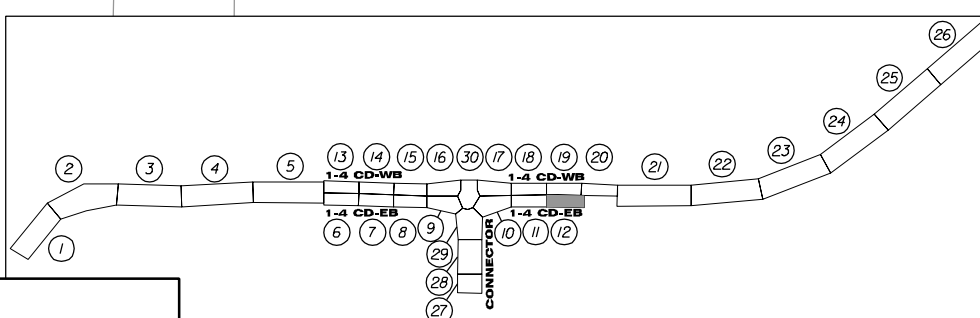
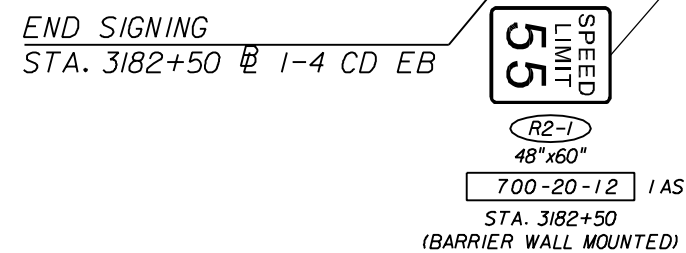
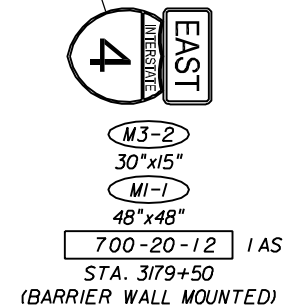
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MATCH LINE STA. 3826+00 SEE SHEET S-17

MATCH LINE STA. 3833+50



END PAVEMENT MARKINGS
MEET/MATCH EXISTING PAVEMENT MARKINGS
STA. 3179+50 @ I-4 CD EB



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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

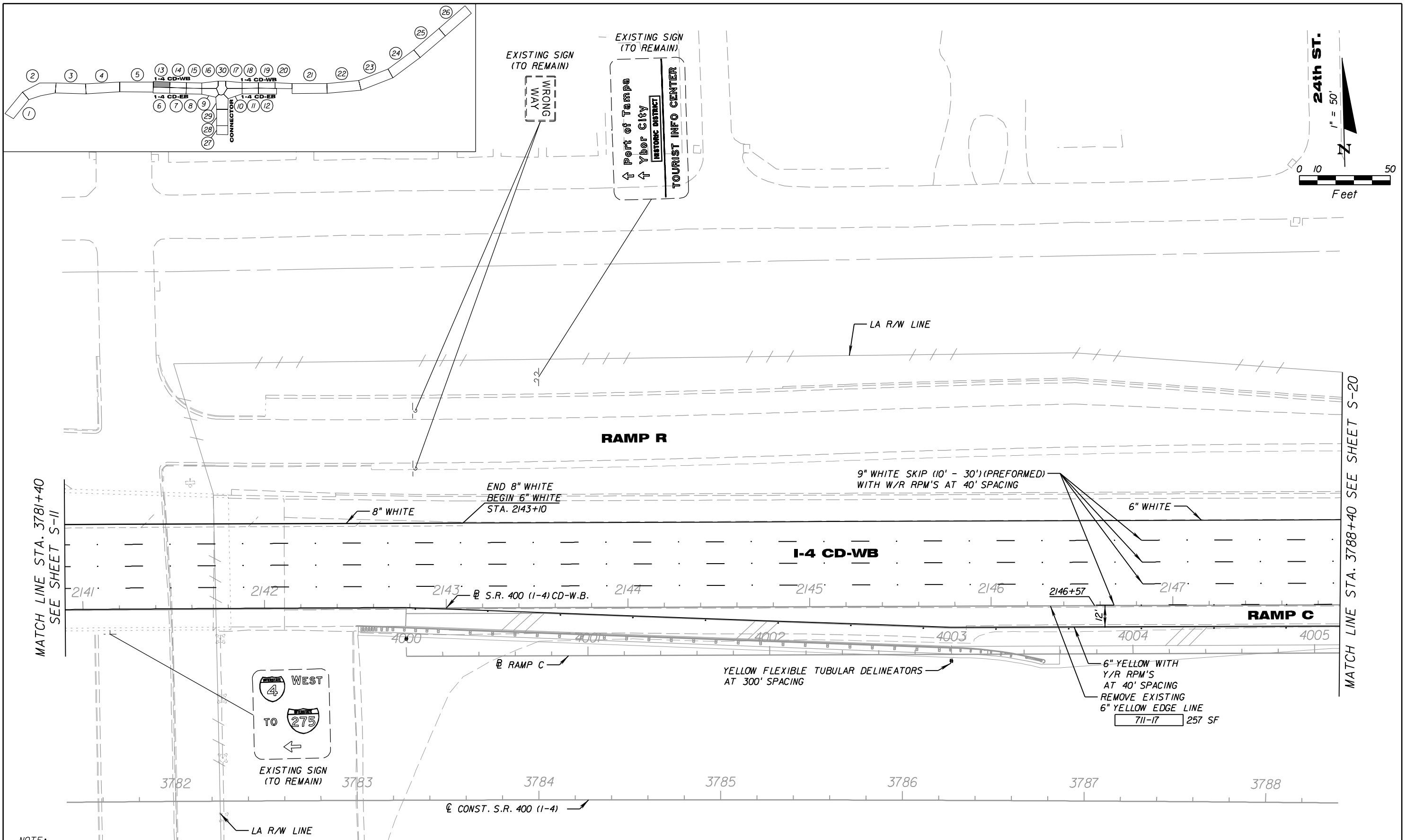
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SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (12)**

SHEET NO.
S-18

MATCH LINE STA. 3833+50
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



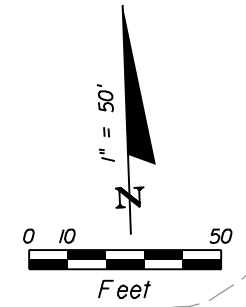
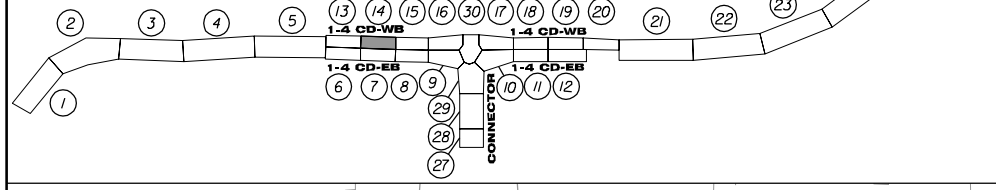
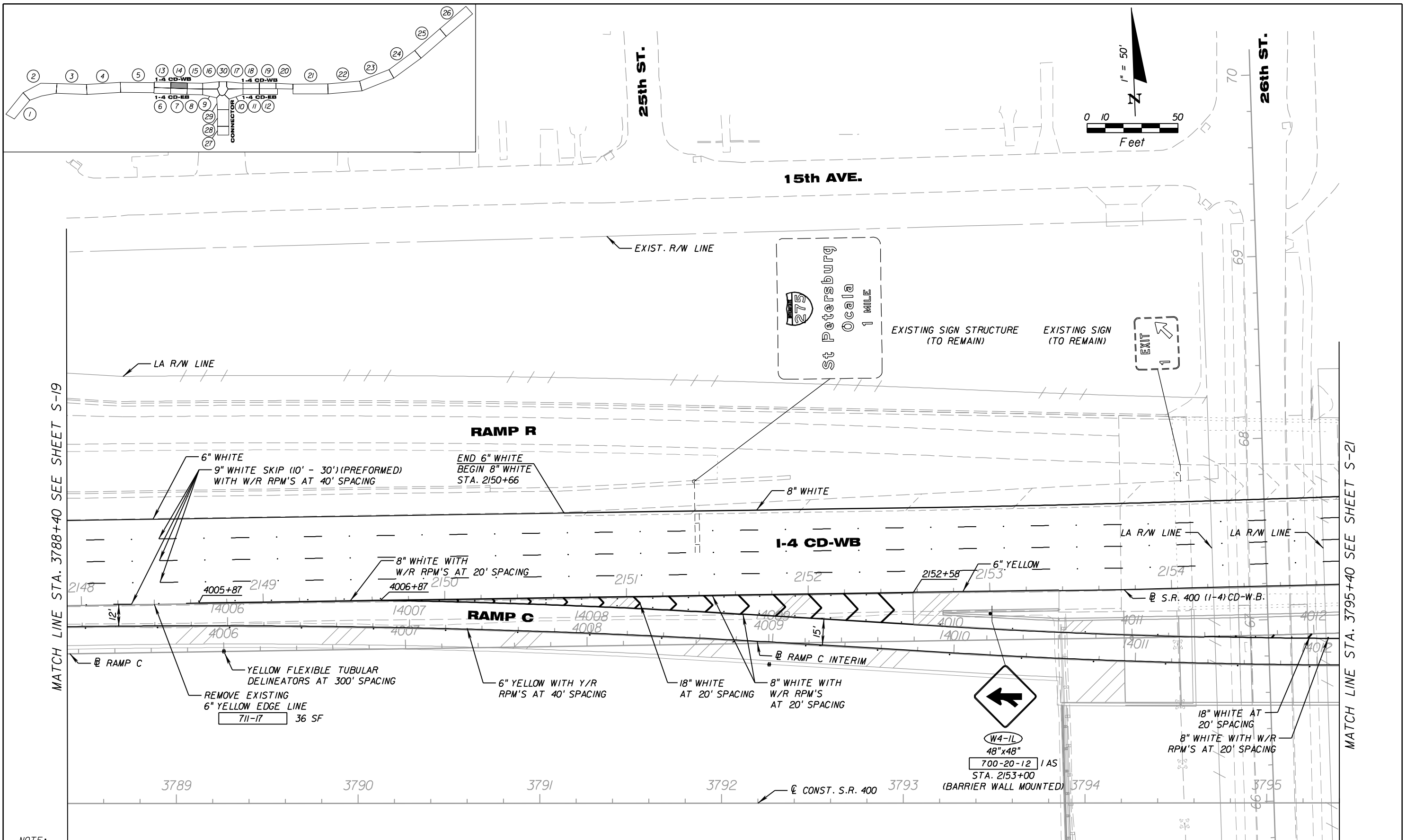
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(CORE)		
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**SIGNING & PAVEMENT
MARKING PLAN (13)**

SHEET NO.
S-19

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MATCH LINE STA. 3788+40 SEE SHEET S-19

MATCH LINE STA. 3795+40 SEE SHEET S-21

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

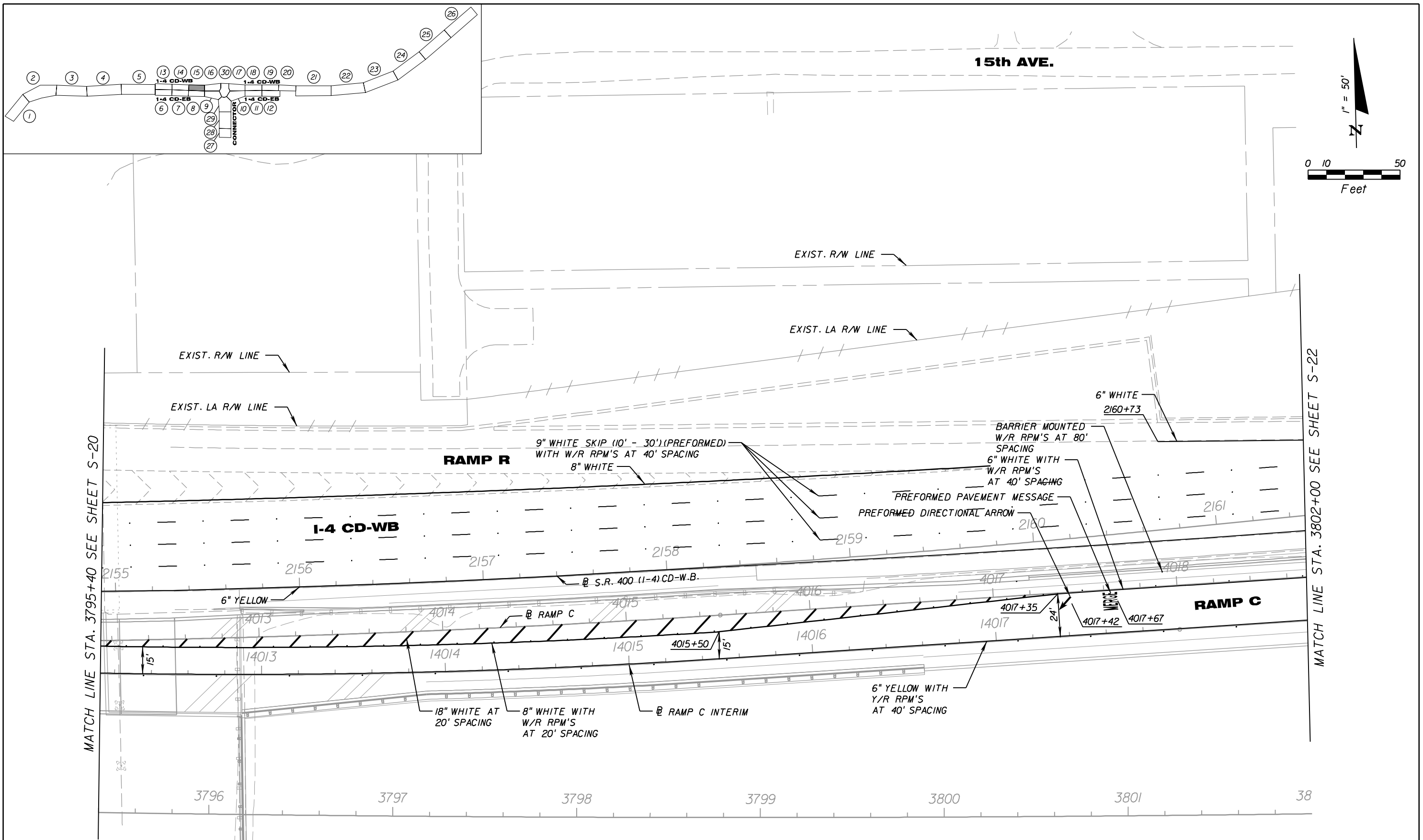
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SIGNING & PAVEMENT
MARKING PLAN (14)


SHEET NO.
S-20

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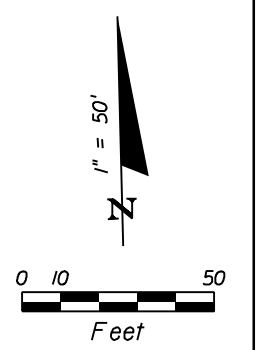


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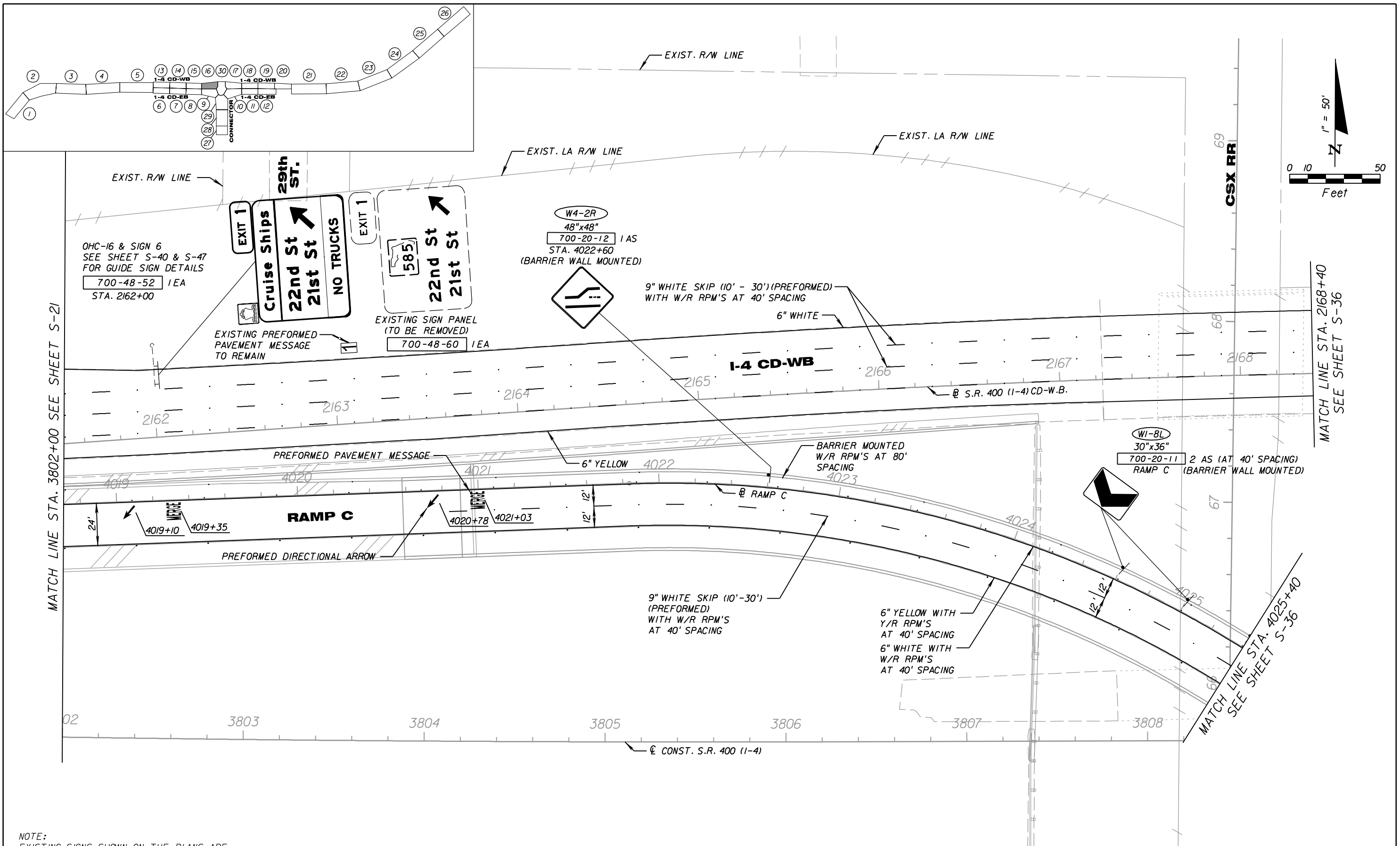
(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (15)**

SHEET NO.
S-21



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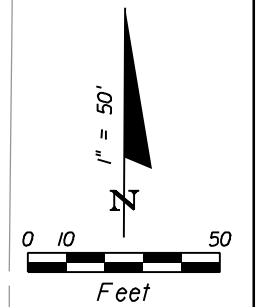
PB
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EORs: BIJAN BEHZADI, P.E. No. 43868

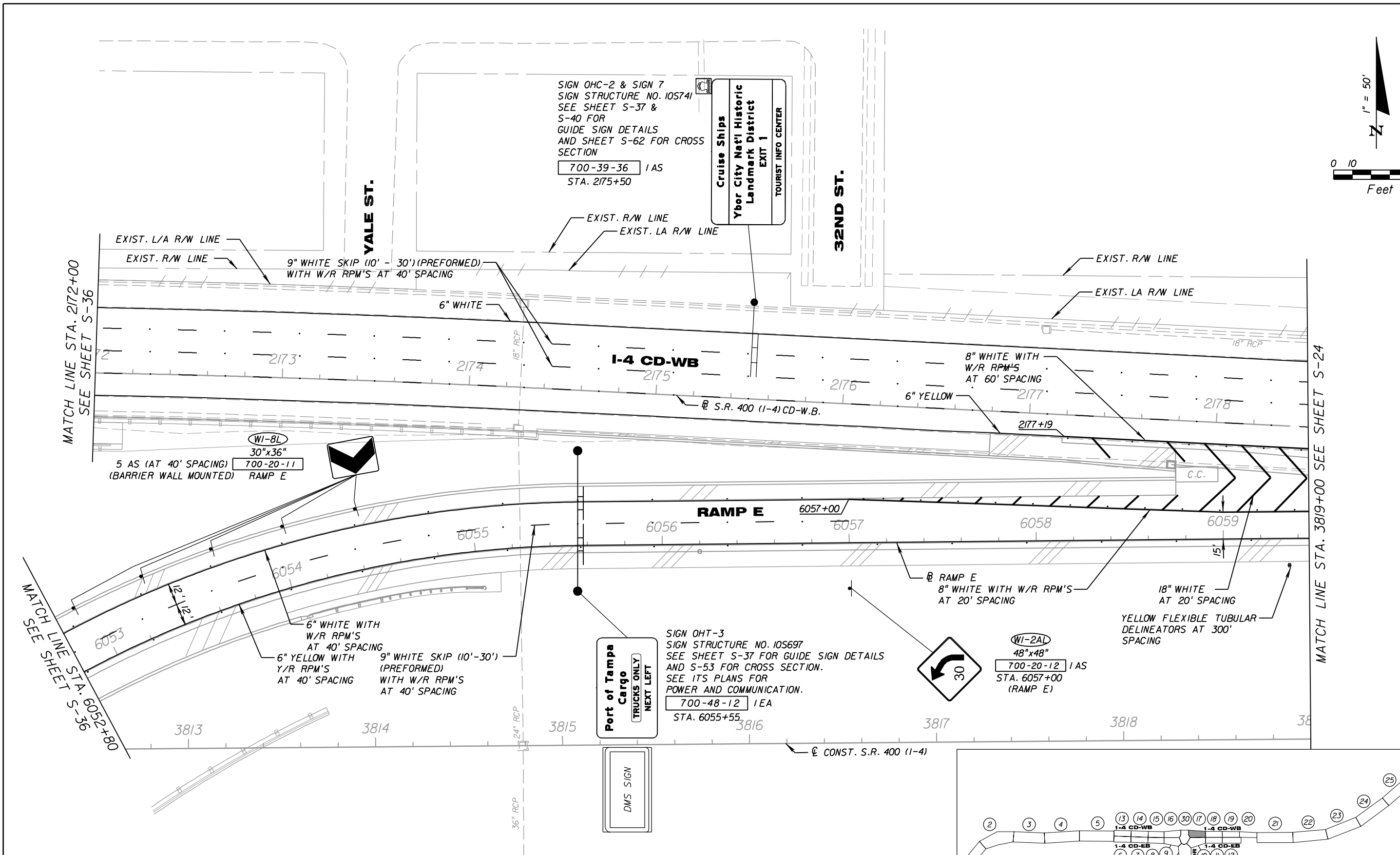
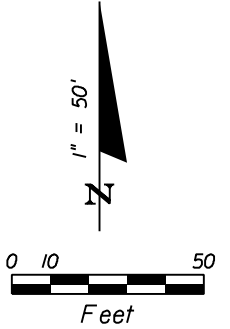
(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (16)**

SHEET NO.
S-22



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

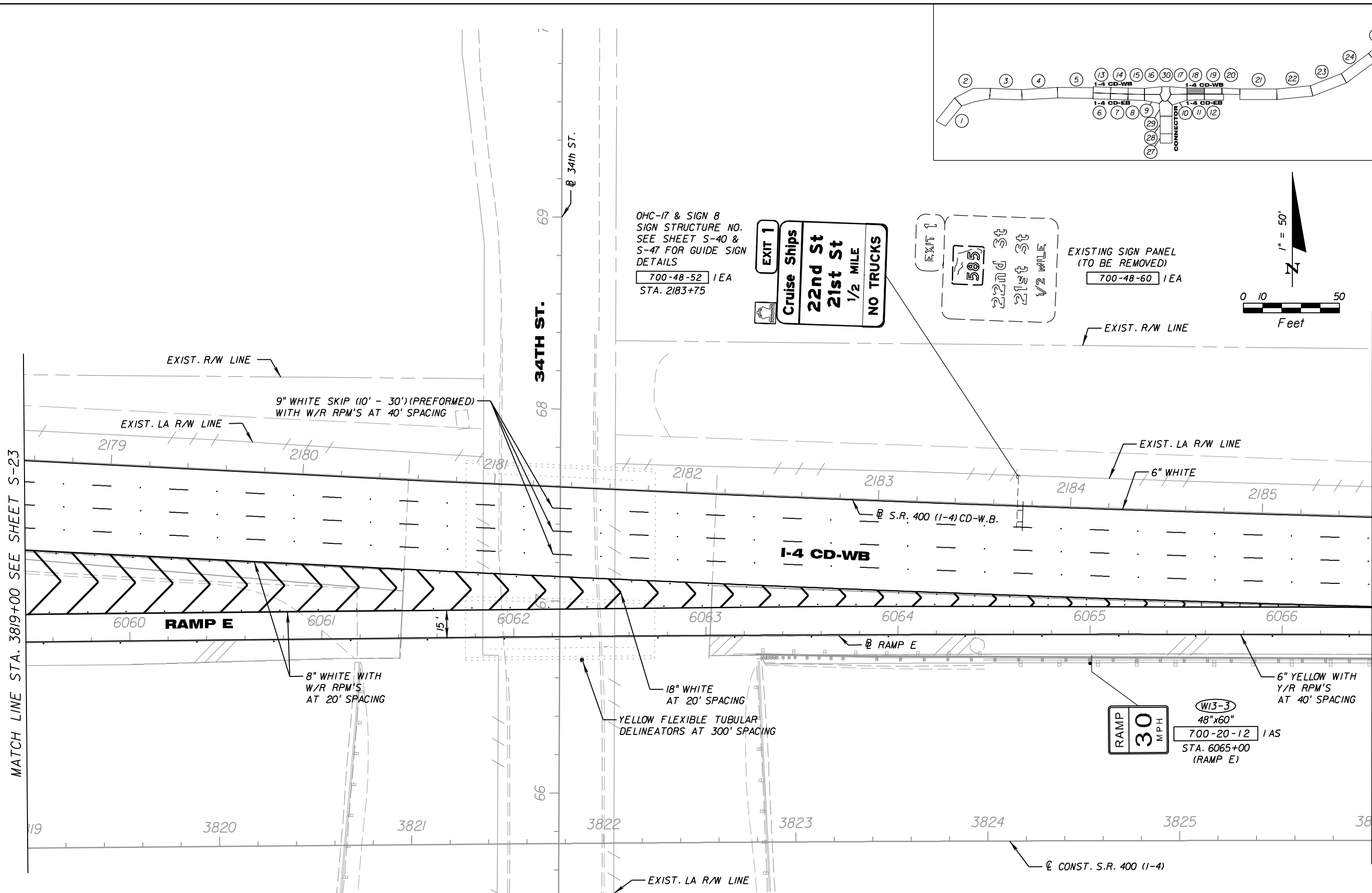
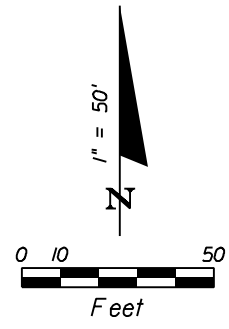
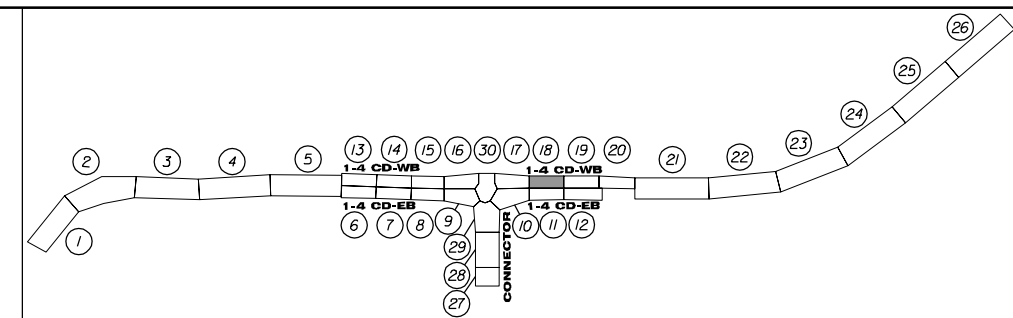
PB Americas, Inc.
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(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

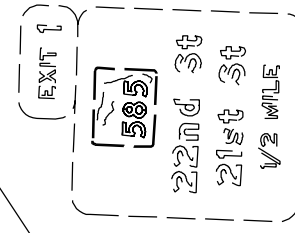
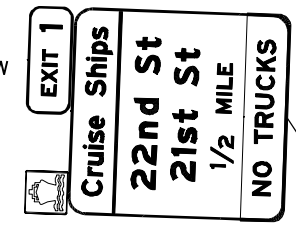
**SIGNING & PAVEMENT
MARKING PLAN (17)**

SHEET NO.
S-23

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OHC-17 & SIGN B
SIGN STRUCTURE NO.
SEE SHEET S-40 &
S-47 FOR GUIDE SIGN
DETAILS
700-48-52 1 EA
STA. 2183+75



EXISTING SIGN PANEL
(TO BE REMOVED)
700-48-60 1 EA

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

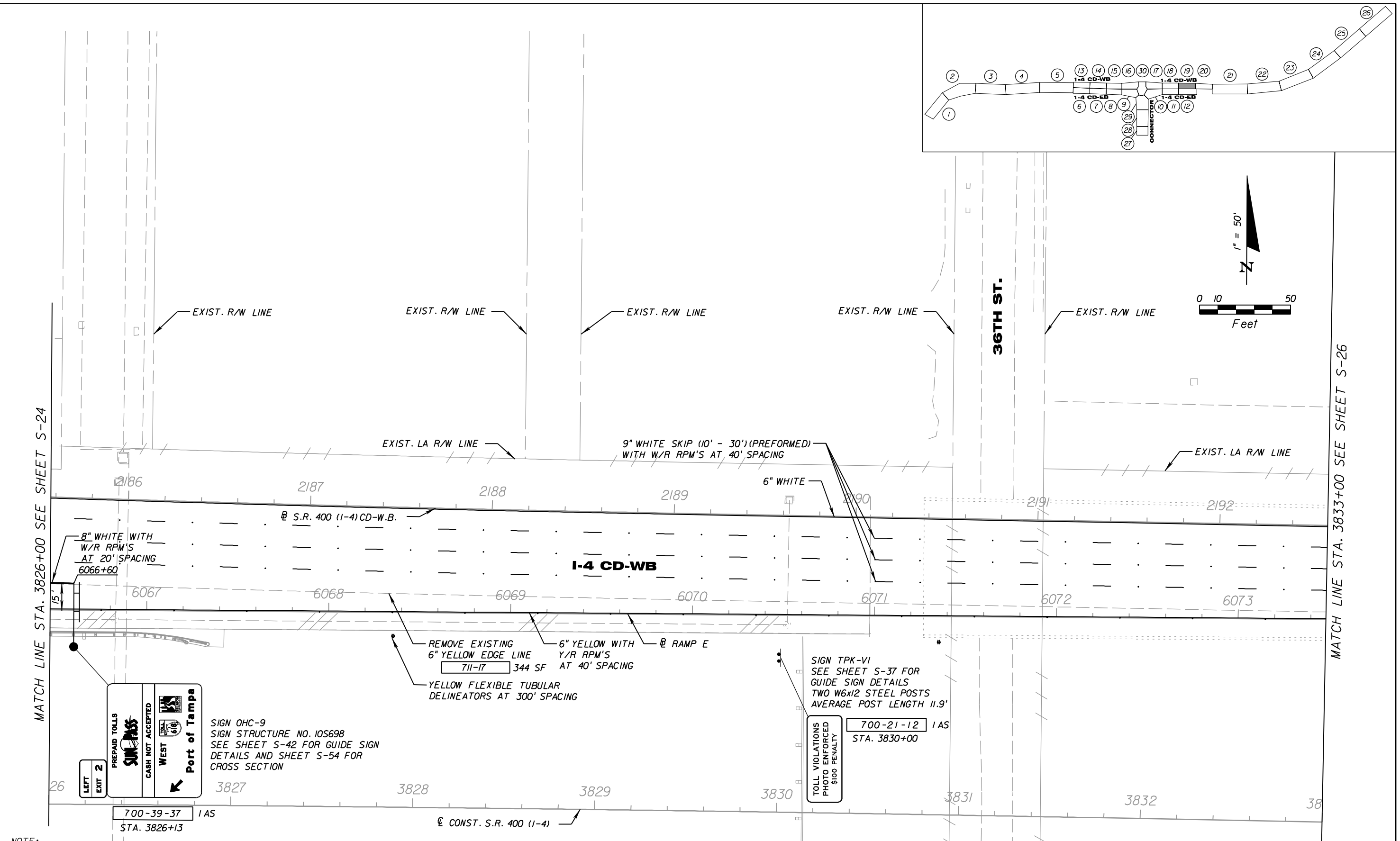
PB Americas, Inc.
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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SIGNING & PAVEMENT
MARKING PLAN (18)

SHEET NO.
S-24

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

100 YEARS

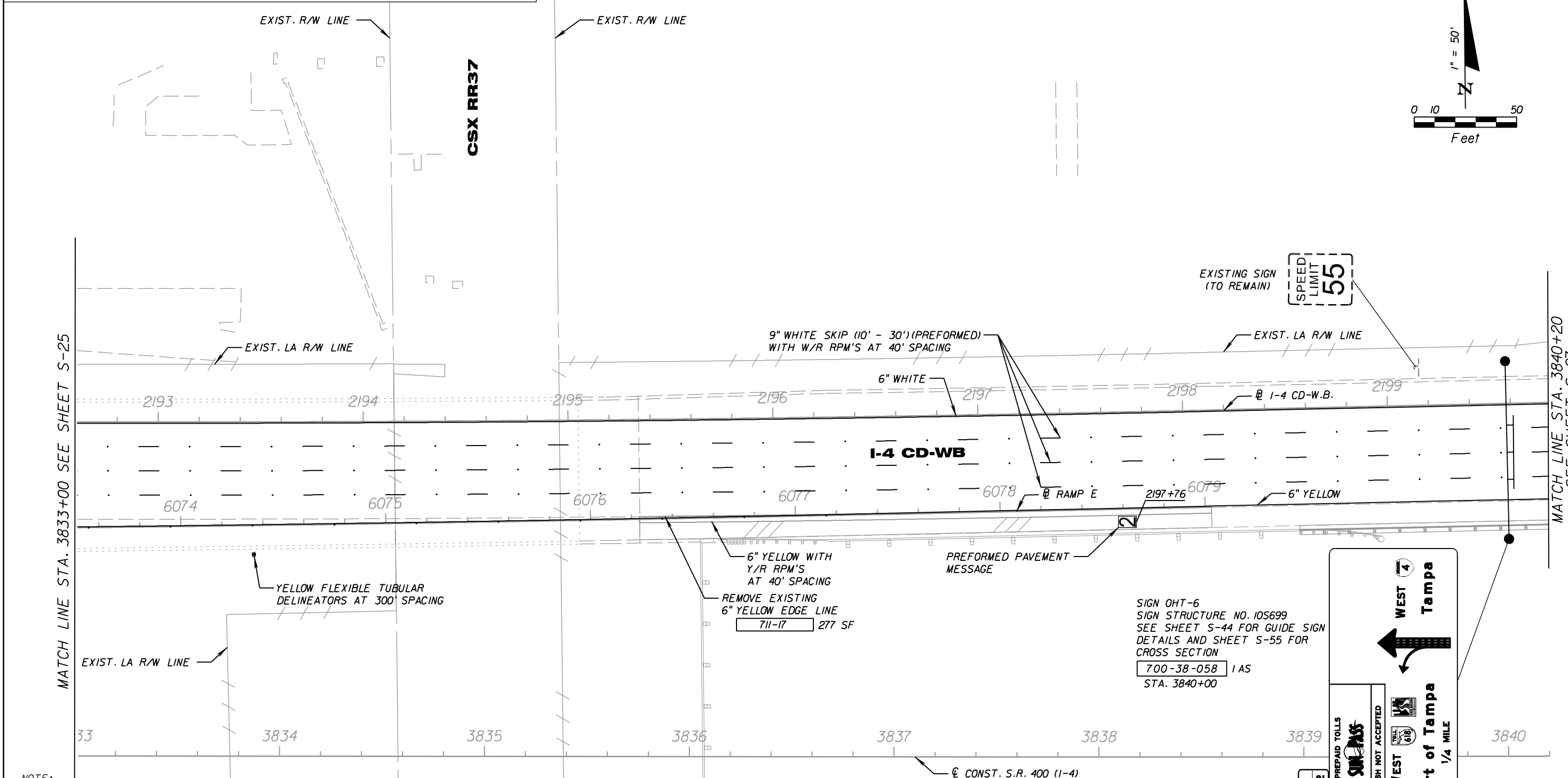
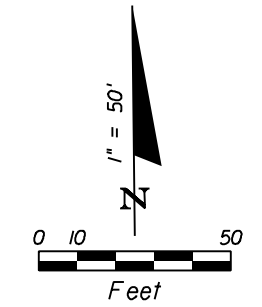
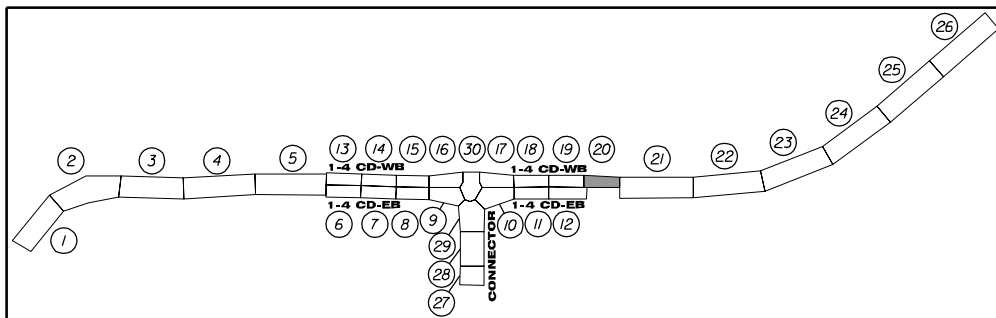
PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E. No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (19)**

SHEET NO.
S-25

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTE:
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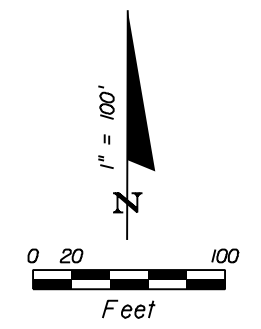
(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (20)**

SHEET NO.
S-26

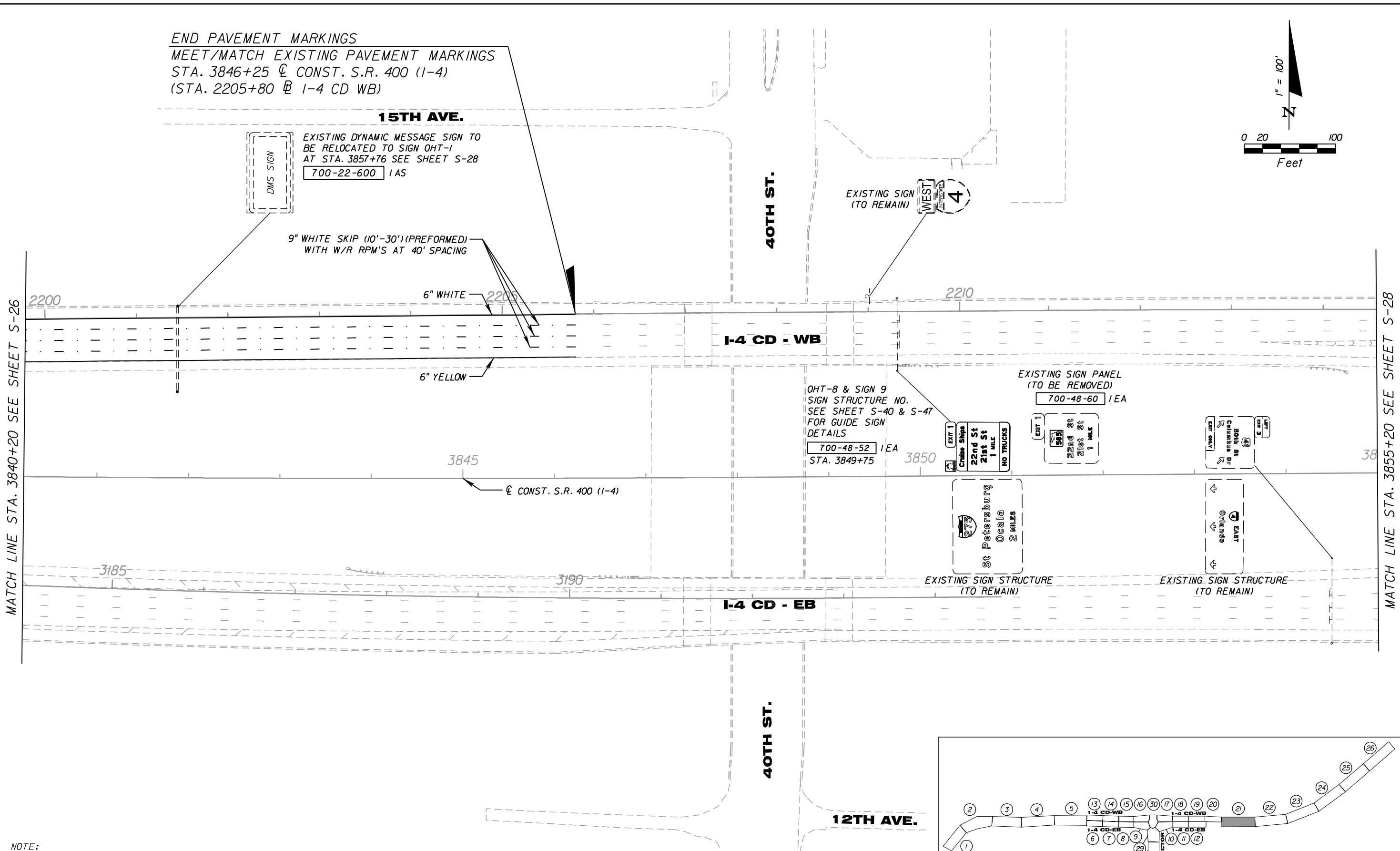
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

END PAVEMENT MARKINGS
 MEET/MATCH EXISTING PAVEMENT MARKINGS
 STA. 3846+25 @ CONST. S.R. 400 (1-4)
 (STA. 2205+80 @ 1-4 CD WB)



MATCH LINE STA. 3840+20 SEE SHEET S-26

MATCH LINE STA. 3855+20 SEE SHEET S-28



NOTE:
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

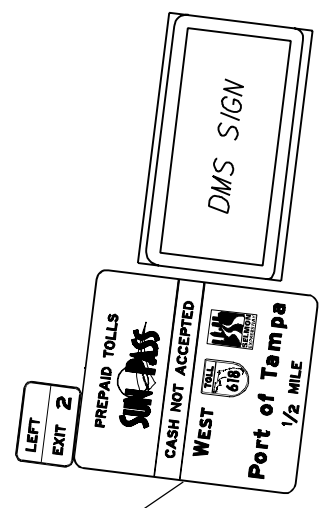
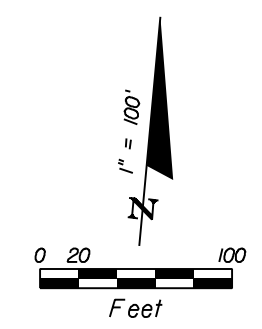
PB Americas, Inc.
 5405 West Cypress St. Suite 300
 Tampa, Florida 33607
 (813) 289-5300
 Cert. of Auth. No. 01462
 EORs: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

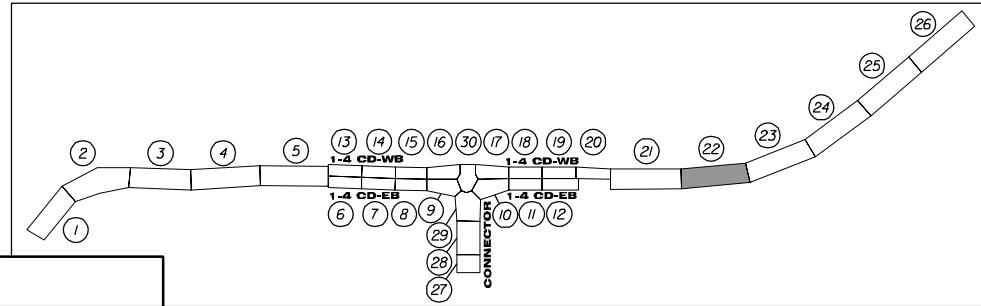
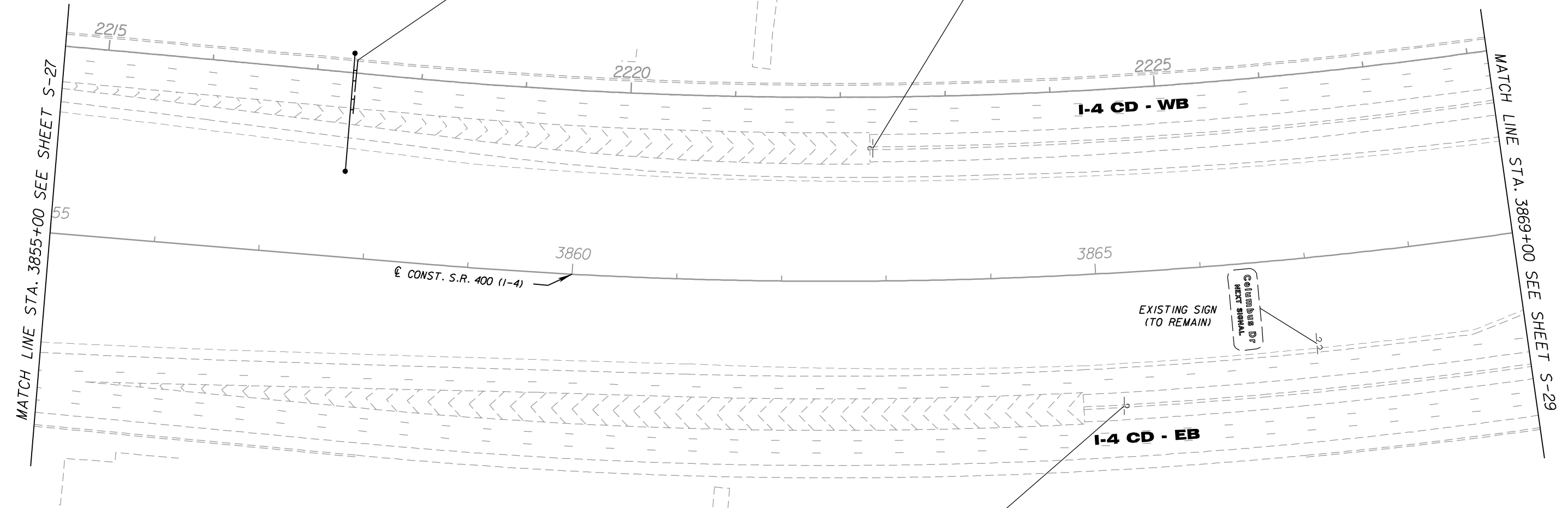
**SIGNING & PAVEMENT
 MARKING PLAN (21)**

SHEET NO.
 S-27

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



SIGN OHT-1
SIGN STRUCTURE NO. 10S700
SEE SHEET S-41 FOR GUIDE SIGN
DETAILS AND S-56 FOR
CROSS SECTION.
SEE ITS PLANS FOR
POWER AND COMMUNICATION.
700-48-14 IEA
STA. 3857+76



NOTE:
EXISTING SIGNS SHOWN ON THE PLANS ARE
FOR INFORMATIONAL PURPOSES ONLY.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



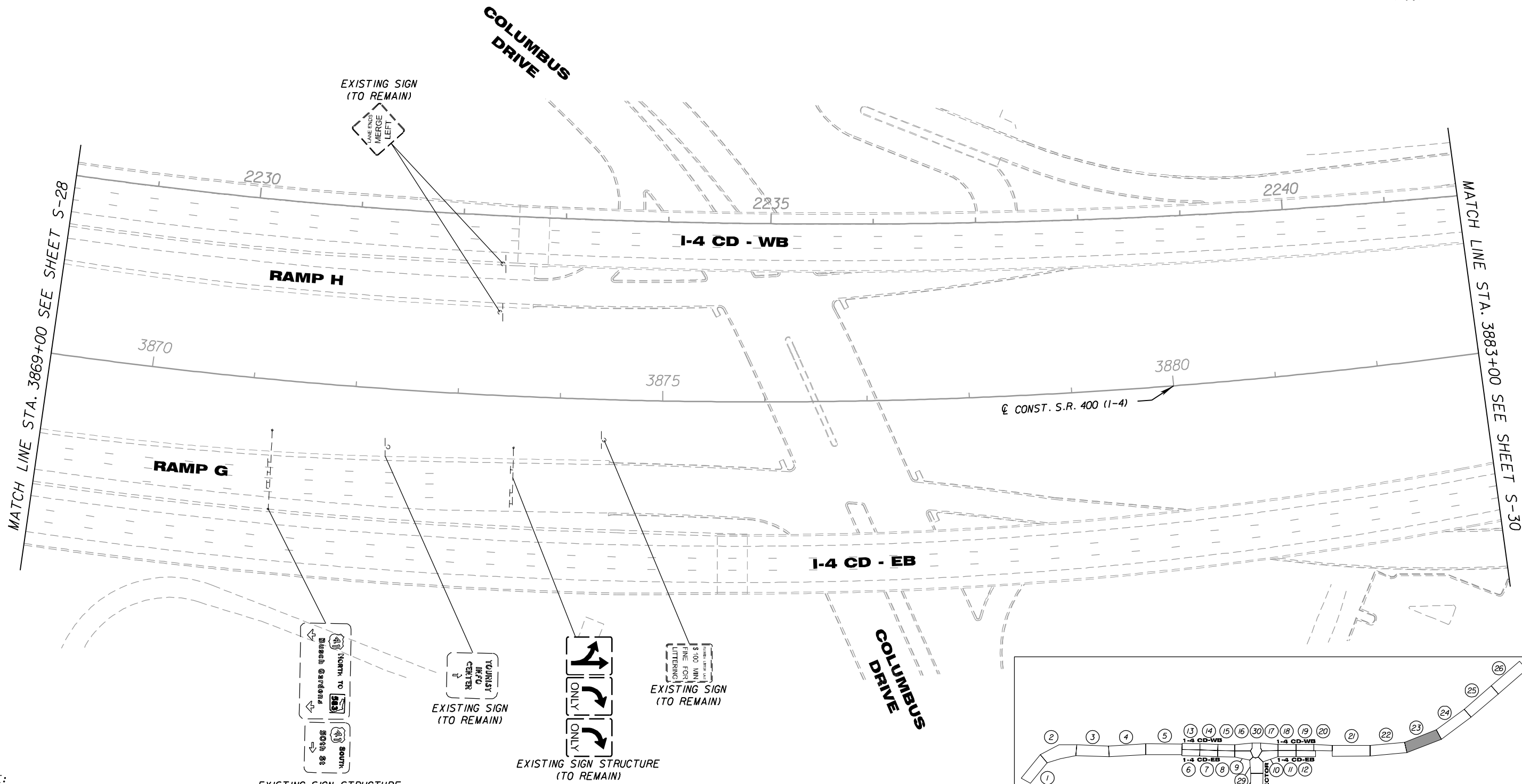
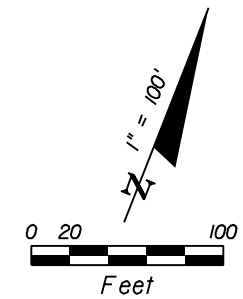
PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (22)**

SHEET NO.
S-28

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



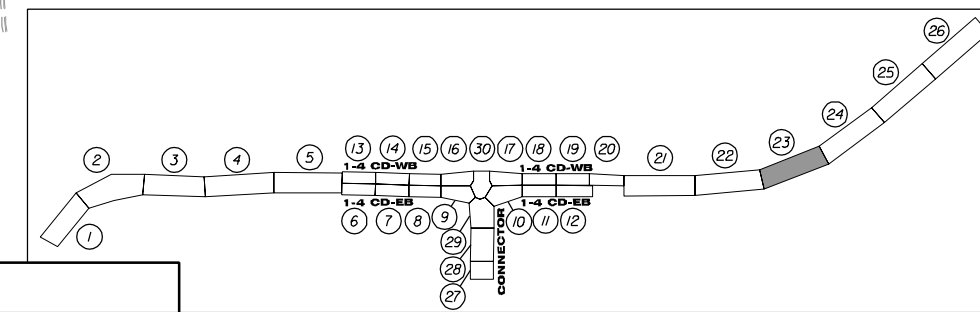
NOTE:
EXISTING SIGNS SHOWN ON THE PLANS ARE
FOR INFORMATIONAL PURPOSES ONLY.

EXISTING SIGN STRUCTURE
(TO REMAIN)

EXISTING SIGN
(TO REMAIN)

EXISTING SIGN STRUCTURE
(TO REMAIN)

EXISTING SIGN
(TO REMAIN)



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

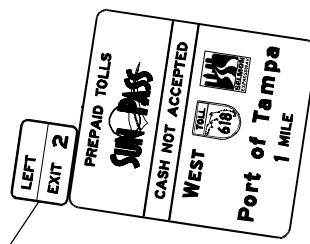
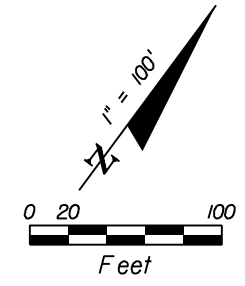


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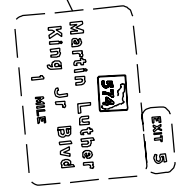
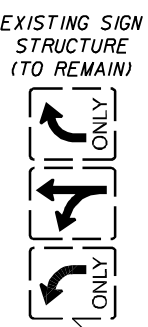
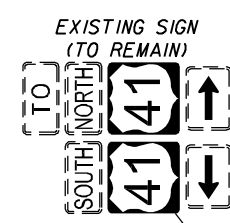
(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (23)**

SHEET
NO.
S-29

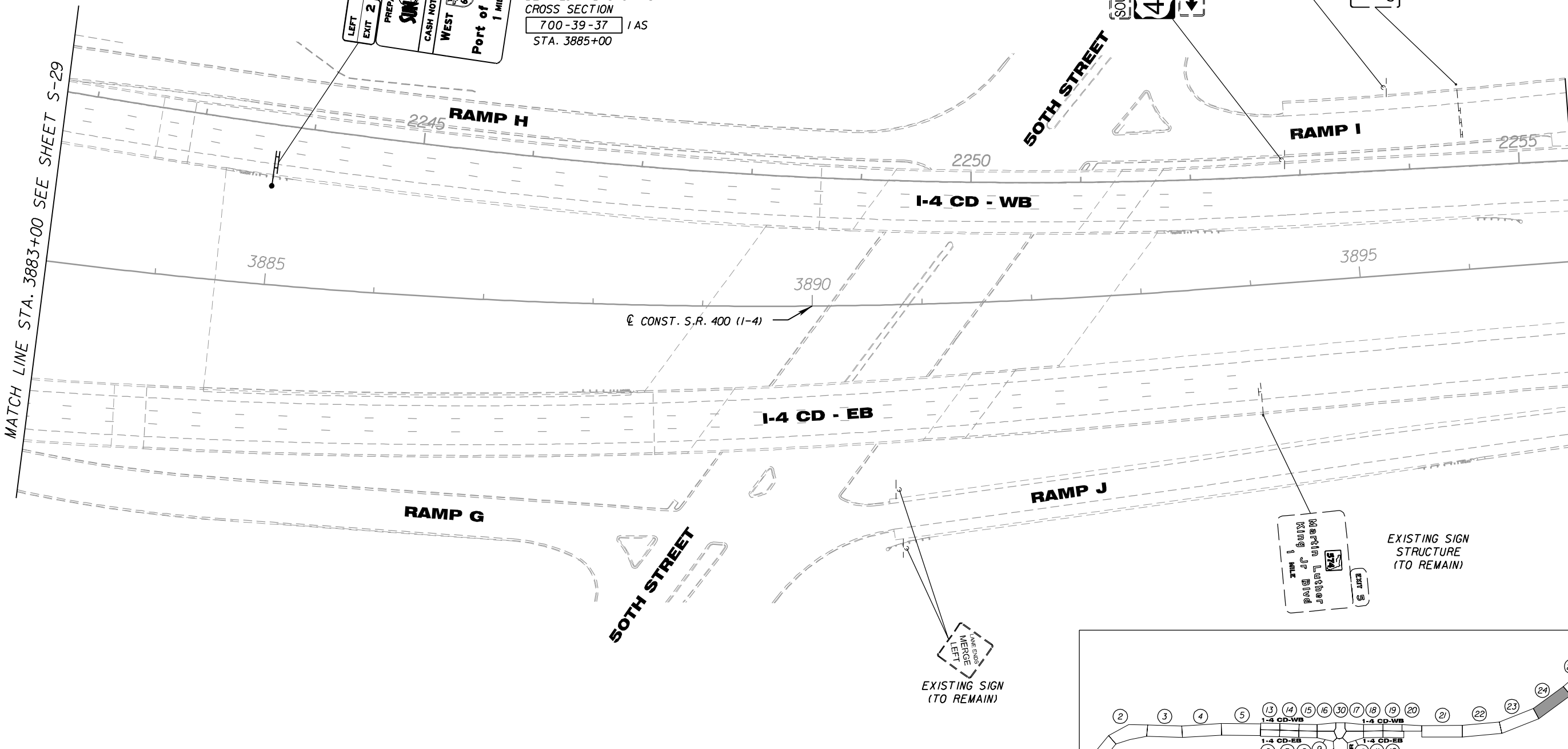


SIGN OHC-7
SIGN STRUCTURE NO. 105701
SEE SHEET S-41 FOR GUIDE SIGN
DETAILS AND S-57 FOR
CROSS SECTION
700-39-37 I AS
STA. 3885+00

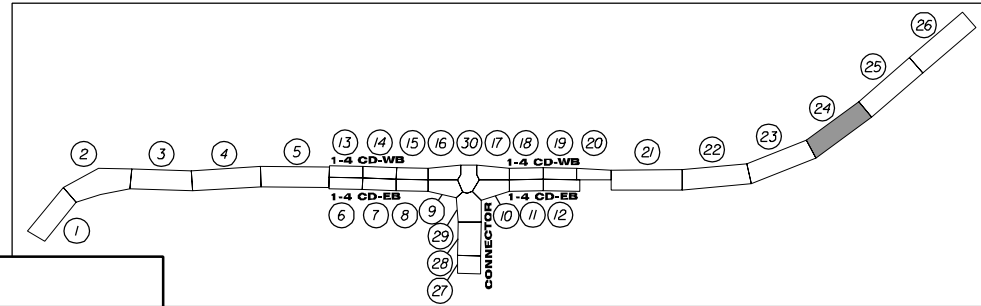


MATCH LINE STA. 3883+00 SEE SHEET S-29

MATCH LINE STA. 3897+00 SEE SHEET S-31



NOTE:
EXISTING SIGNS SHOWN ON THE PLANS ARE
FOR INFORMATIONAL PURPOSES ONLY.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

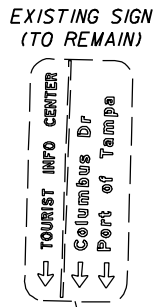
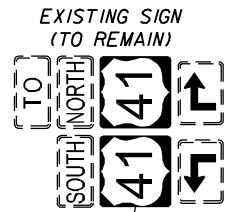
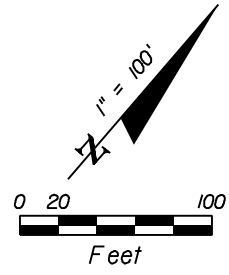
PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

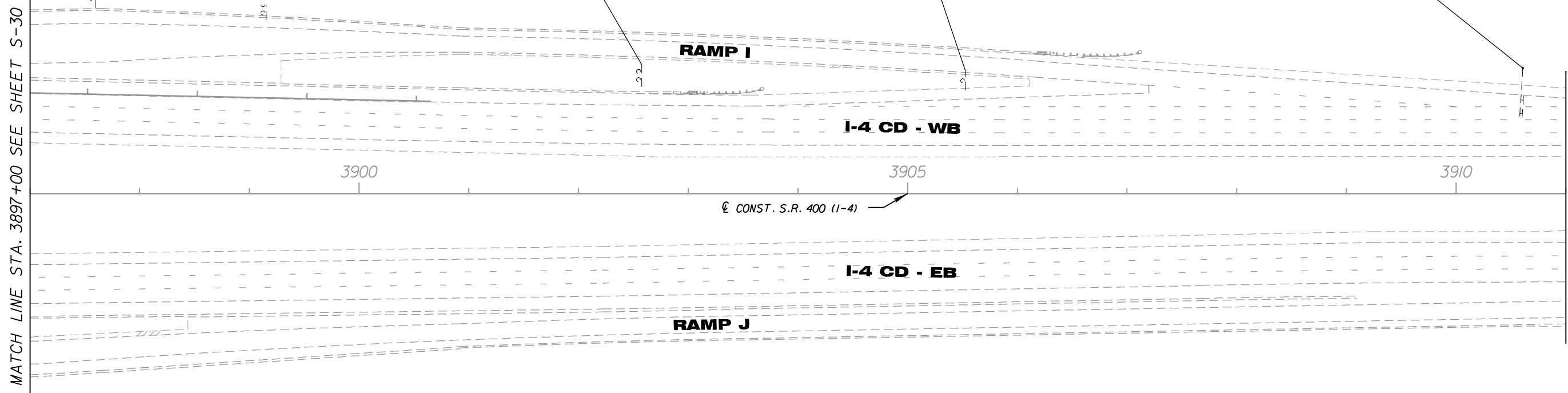
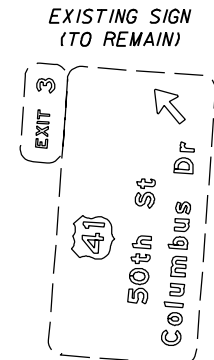
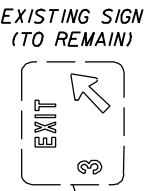
SIGNING & PAVEMENT
MARKING PLAN (24)

SHEET NO.
S-30

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



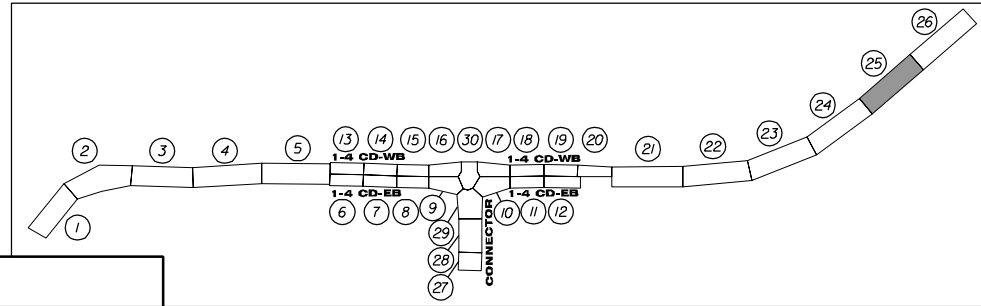
EXISTING MULTI-POST SIGN TO REMAIN
SEE SHEET S-42 FOR OVERLAY DETAILS
700-48-39 IEA
STA. 3902+55



MATCH LINE STA. 3897+00 SEE SHEET S-30

MATCH LINE STA. 3911+00 SEE SHEET S-32

NOTE:
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

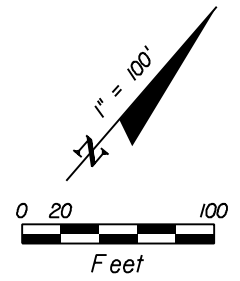
PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

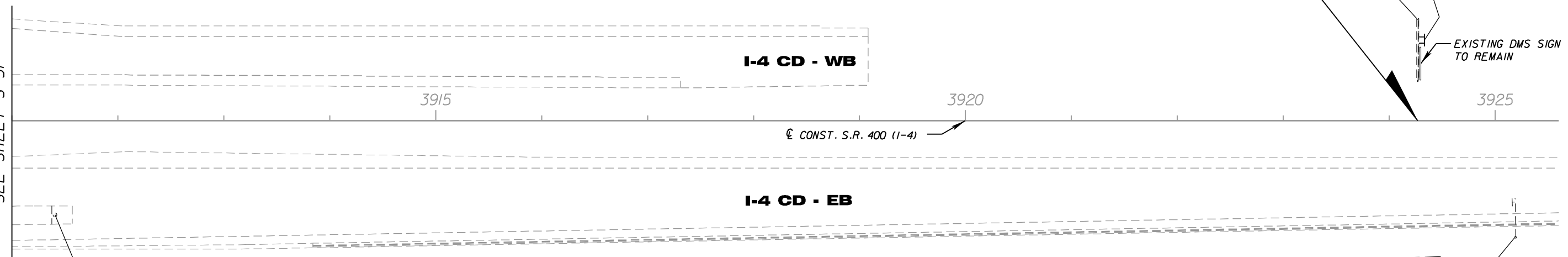
SIGNING & PAVEMENT
MARKING PLAN (25)

SHEET NO.
S-31

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



MATCH LINE STA. 3916+00
SEE SHEET S-31



EXISTING SIGN PANEL
(TO BE REMOVED)
700-48-60 IEA

TRUCK ROUTE
TO
Port of Tampa
EXIT 3
TOURIST INFO CENTER

TRUCK ROUTE
TO
Port of Tampa
EXIT 2
SIGN II
SIGN STRUCTURE NO. 10S518
SEE SHEET S-37
FOR GUIDE SIGN
DETAILS
700-48-12 IEA
STA. 3924+27

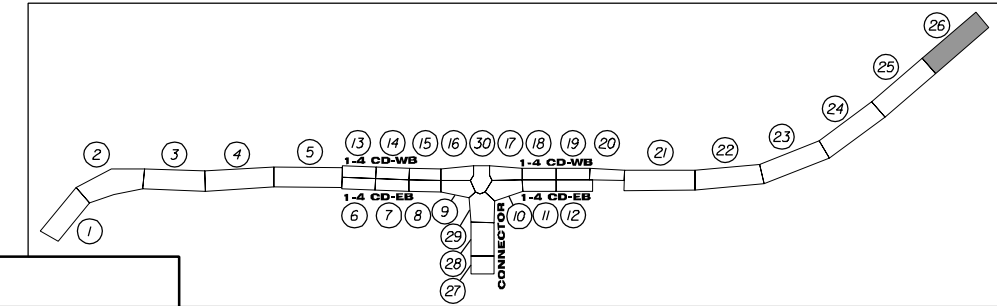
END SIGNING
STA. 3924+27 @ CONST. S.R. 400 (1-4)

EXISTING DMS SIGN
TO REMAIN

EXISTING SIGN
(TO REMAIN)

EXISTING SIGN STRUCTURE
(TO REMAIN)
Martin Luther
King Jr Blvd
1/2 MILE
EXIT 5

NOTE:
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

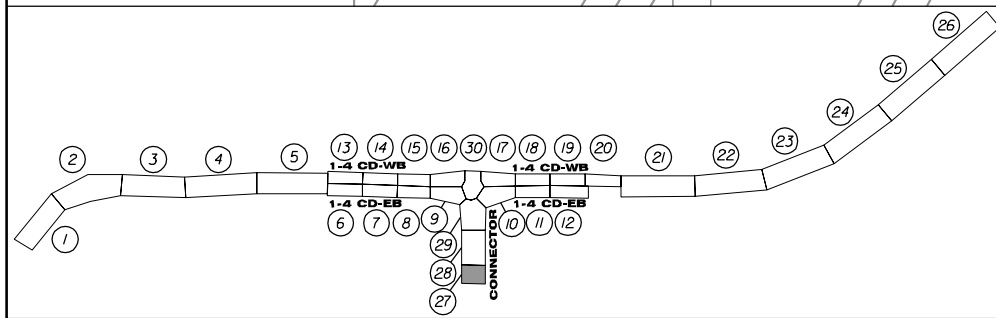
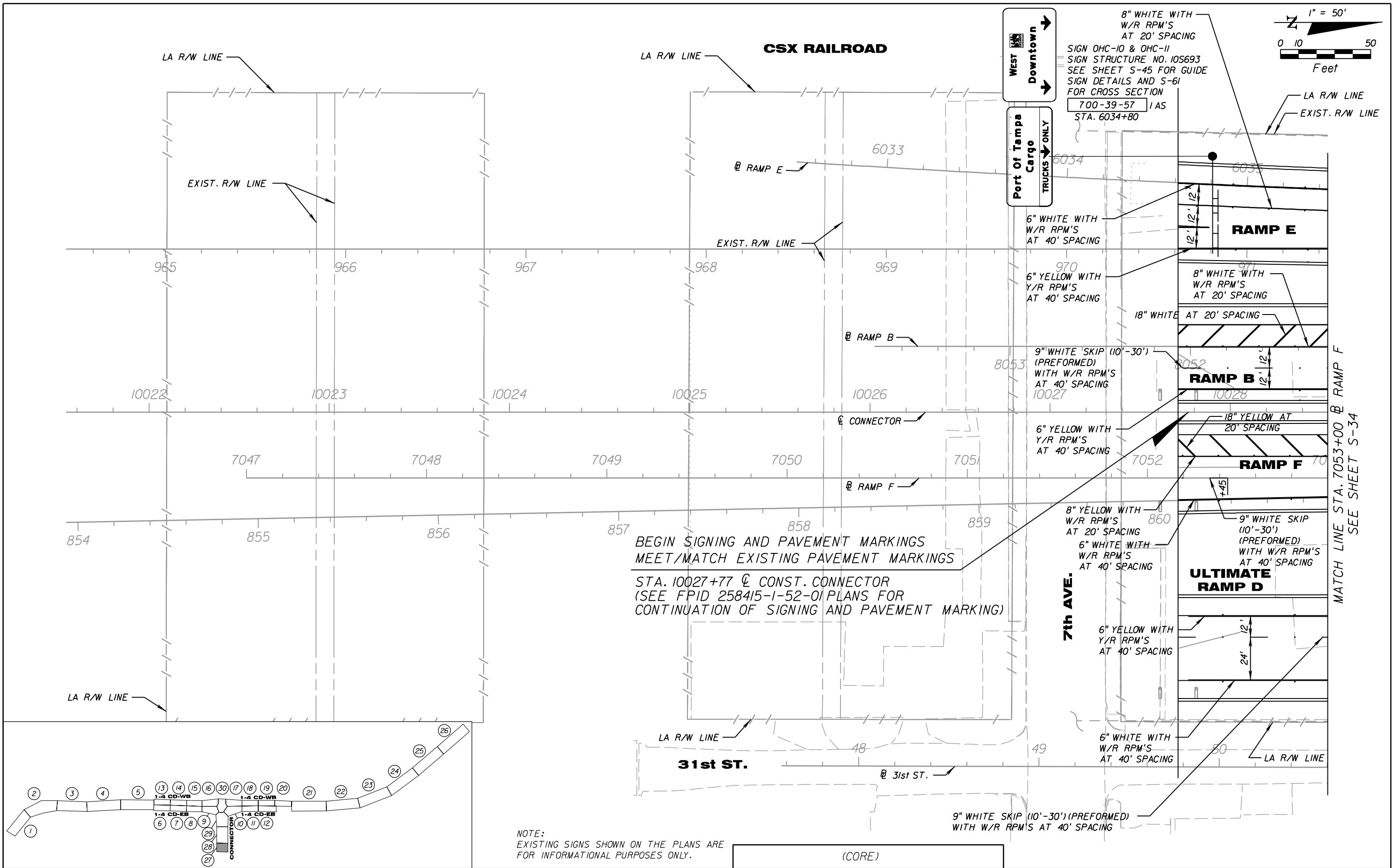
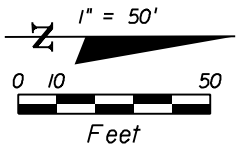
PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGNING & PAVEMENT
MARKING PLAN (26)

SHEET NO.
S-32

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

100 YEARS

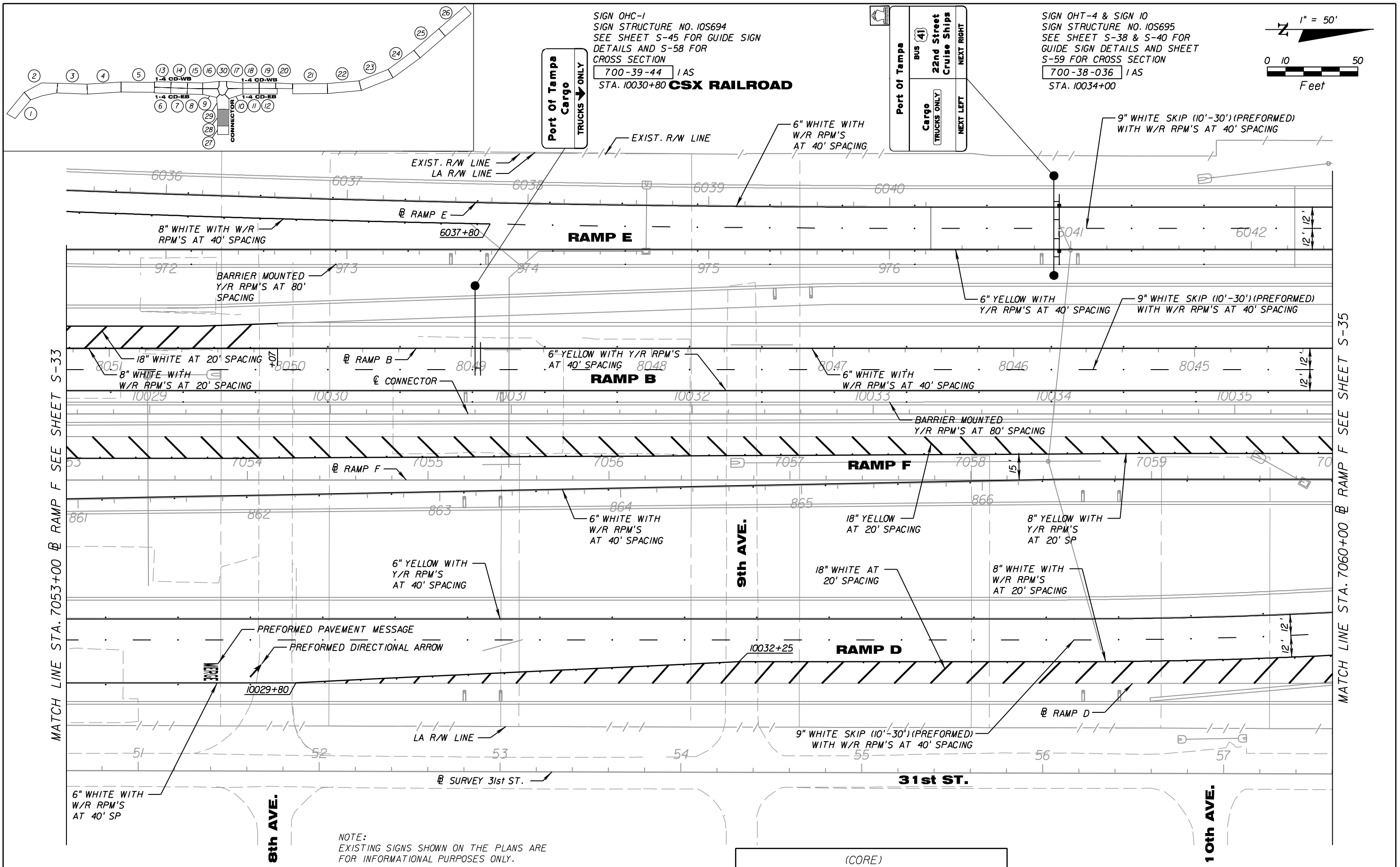
PB Americas, Inc.
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EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGNING & PAVEMENT MARKING PLAN (27)

SHEET NO.
S-33

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



MATCH LINE STA. 7053+00 @ RAMP F SEE SHEET S-33

MATCH LINE STA. 7060+00 @ RAMP F SEE SHEET S-35

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PR
 100 YEARS

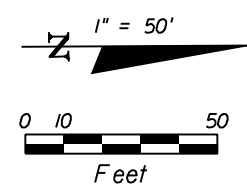
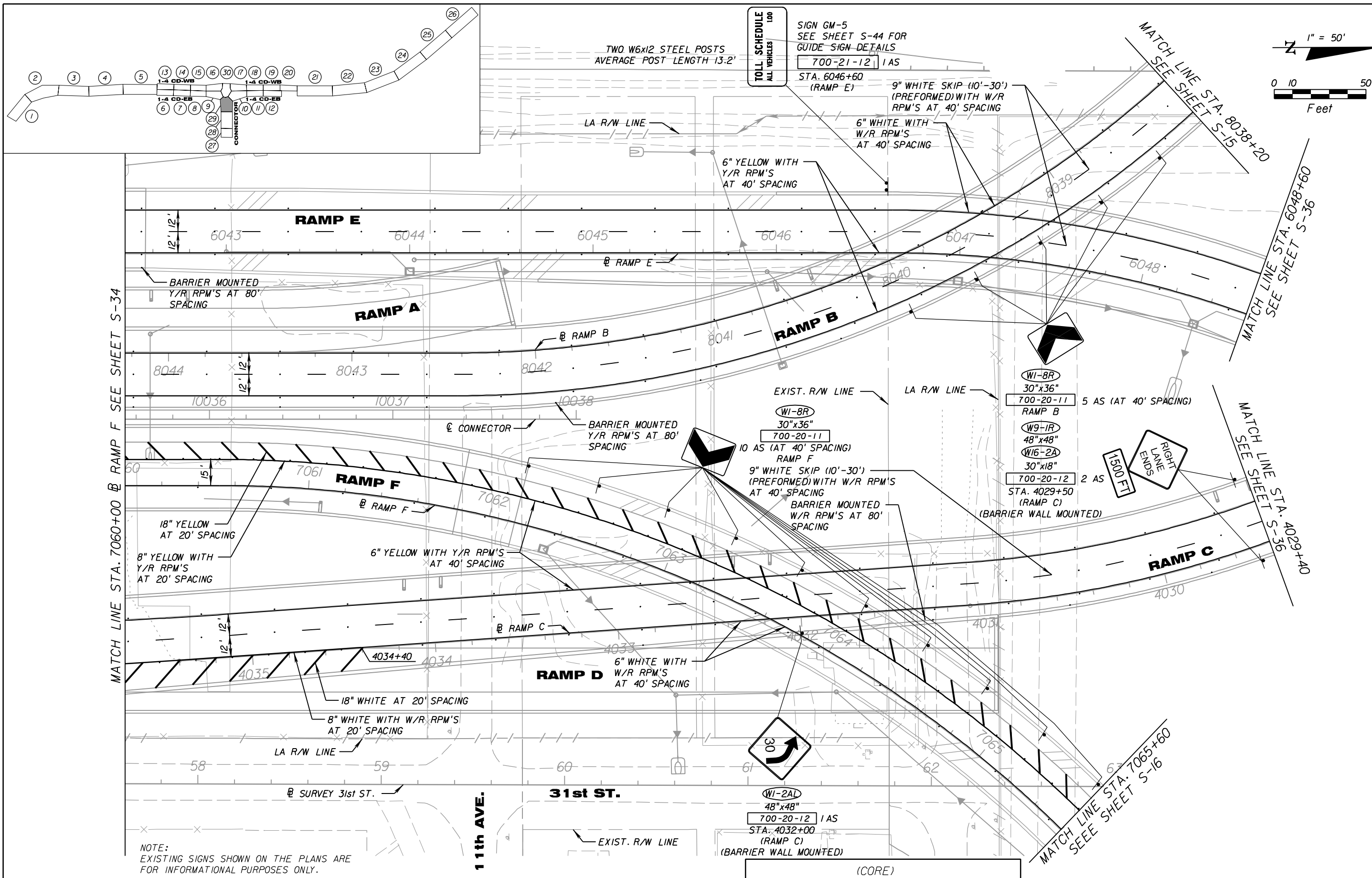
PB Americas, Inc.
 5405 West Cypress St. Suite 300
 Tampa, Florida 33607
 (813) 289-5300
 Cert. of Auth. No. 01462
 EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGNING & PAVEMENT MARKING PLAN (28)

SHEET NO.
 S-34

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



TOLL SCHEDULE
1.00
ALL VEHICLES

SIGN GM-5
SEE SHEET S-44 FOR
GUIDE SIGN DETAILS
700-21-12 1 AS
STA. 6046+60
(RAMP E)

9" WHITE SKIP (10'-30')
(PERFORMED) WITH W/R
RPM'S AT 40' SPACING

6" YELLOW WITH
Y/R RPM'S
AT 40' SPACING

EXIST. R/W LINE
WI-8R
30"x36"
700-20-11
10 AS (AT 40' SPACING)
RAMP F

9" WHITE SKIP (10'-30')
(PERFORMED) WITH W/R RPM'S
AT 40' SPACING
BARRIER MOUNTED
W/R RPM'S AT 80'
SPACING

WI-8R
30"x36"
700-20-11 5 AS (AT 40' SPACING)
RAMP B

W9-1R
48"x48"
WI6-2A
30"x18"
700-20-12 2 AS
STA. 4029+50
(RAMP C)
(BARRIER WALL MOUNTED)

WI-2AL
48"x48"
700-20-12 1 AS
STA. 4032+00
(RAMP C)
(BARRIER WALL MOUNTED)

MATCH LINE STA. 7060+00 @ RAMP F SEE SHEET S-34

MATCH LINE STA. 8038+20
SEE SHEET S-15

MATCH LINE STA. 6048+60
SEE SHEET S-36

MATCH LINE STA. 4029+40
SEE SHEET S-36

MATCH LINE STA. 7065+60
SEE SHEET S-16

NOTE:
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FOR INFORMATIONAL PURPOSES ONLY.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

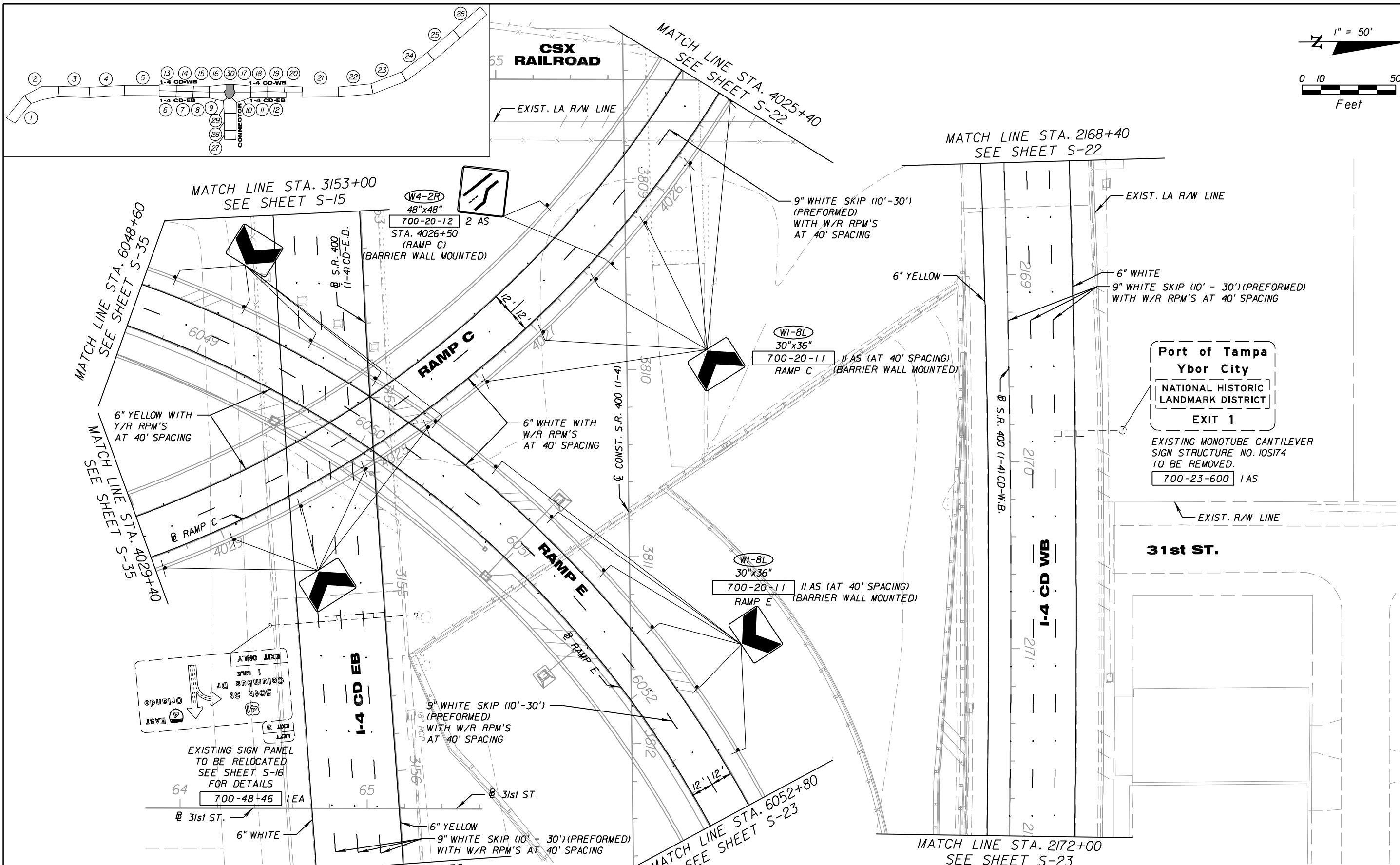
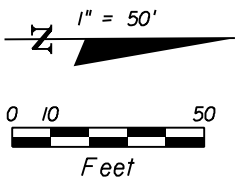
PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (29)**

SHEET NO.
S-35

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



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PB Americas, Inc.
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(813) 289-5300
Cert. of Auth. No. 01462
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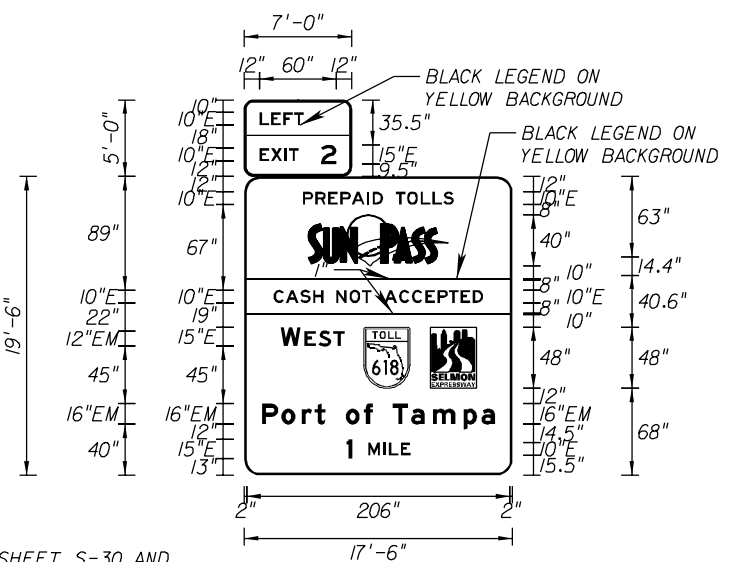
(CORE)		
STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**SIGNING & PAVEMENT
MARKING PLAN (30)**

SHEET NO.
S-36

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

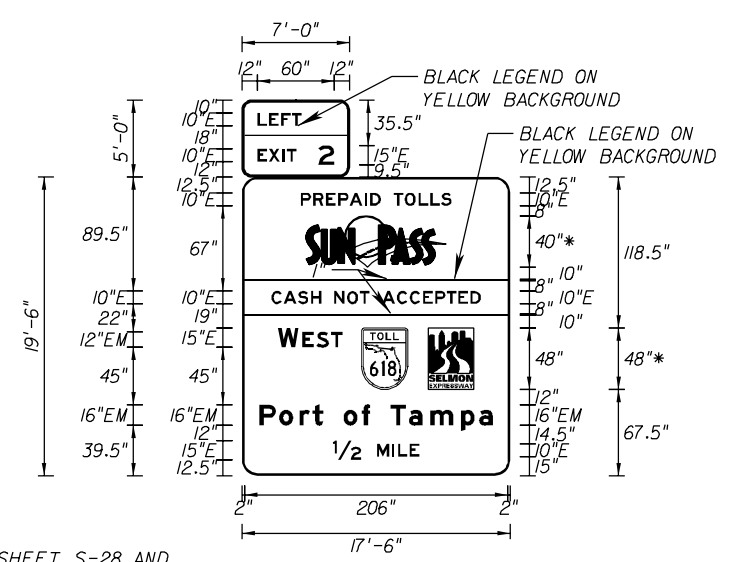
SIGN NUMBER	OHC-7					
QUANTITY	1					
WIDTH	17'-6"					
HEIGHT	19'-6"					
BORDER WIDTH	2"					
BORDER RADII	12"					
BACKGROUND COLOR	Green					
LEGEND & BORDER COLOR	White					
STATION(S)	3885+00					
SYMBOL(S)	X	Y	WID	HT		
SUNPASS	0	49.9	164	110.1	40	
I02A	0	93.7	68.1	36	48	
Lee Roy Selmon	145.7	68.1	36	48		



NOTES:
1. SEE PLAN SHEET S-30 AND CROSS SECTION SHEET S-57 FOR LOCATION DETAILS.
2. THE DEPARTMENT WILL PROVIDE THE SUNPASS LOGO IN MICROSTATION FORMAT FOR USE IN SIGN FABRICATION.

COPY		L	E	F	T	L														
SPACE	12	9.2	9.5	8.3	7.5	37.5	34.5													
COPY		E	X	I	T	L														
SPACE	12	8.9	10.7	3.5	7.5	41.4	30.6													
COPY		2	L																	
SPACE	59.9	12.2	12	12.2																
COPY		P	R	E	P	A	I	D	T	O	L	L	S	L						
SPACE	45.9	9.8	10.1	9.5	8.9	11.9	4.4	8.1	10	8.9	10.7	9.2	8.6	8.1	45.9	118.2				
COPY		C	A	S	H	N	O	T	A	C	C	E	P	T	E	D	L			
SPACE	23	9.5	11.3	10.1	8.1	10	10.4	9.8	7.5	10	11.6	10.1	10.4	9.5	8.9	9.2	9.5	8.1	23	164
COPY		W	E	S	T	L														
SPACE	28.3	15.9	3	11	11.5	8.9	131.3	50.3												
COPY		P	O	R	T	O	F	T	A	M	P	A	L							
SPACE	13.7	15.4	15.8	10.2	8.3	16	14.2	6.7	16	14.2	17	24	14.1	10.6	13.7	182.6				
COPY		M	I	L	E	L														
SPACE	96.9	12	4.4	9.2	7.5	80	33.1													
COPY		I	L																	
SPACE	79.9	4.5	125.6	4.5																
COPY																				
SPACE																				

SIGN NUMBER	OHT-1					
QUANTITY	1					
WIDTH	17'-6"					
HEIGHT	19'-6"					
BORDER WIDTH	2"					
BORDER RADII	12"					
BACKGROUND COLOR	Green					
LEGEND & BORDER COLOR	White					
STATION(S)	3857+76					
SYMBOL(S)	X	Y	WID	HT		
SUNPASS	0	49.9	158.5	110.1	40	
I02A	0	93.7	62.5	36	48	
Lee Roy Selmon	145.7	62.5	36	48		



NOTES:
1. SEE PLAN SHEET S-28 AND CROSS SECTION SHEET S-56 FOR LOCATION DETAILS.
2. THE DEPARTMENT WILL PROVIDE THE SUNPASS LOGO IN MICROSTATION FORMAT FOR USE IN SIGN FABRICATION.

COPY		L	E	F	T	L														
SPACE	12	9.2	9.5	8.3	7.5	37.5	34.5													
COPY		E	X	I	T	L														
SPACE	12	8.9	10.7	3.5	7.5	41.4	30.6													
COPY		2	L																	
SPACE	59.9	12.2	12	12.2																
COPY		P	R	E	P	A	I	D	T	O	L	L	S	L						
SPACE	45.9	9.8	10.1	9.5	8.9	11.9	4.4	8.1	10	8.9	10.7	9.2	8.6	8.1	45.9	118.2				
COPY		C	A	S	H	N	O	T	A	C	C	E	P	T	E	D	L			
SPACE	23	9.5	11.3	10.1	8.1	10	10.4	9.8	7.5	10	11.6	10.1	10.4	9.5	8.9	9.2	9.5	8.1	23	164
COPY		W	E	S	T	L														
SPACE	28.3	15.9	3	11	11.5	8.9	131.3	50.3												
COPY		P	O	R	T	O	F	T	A	M	P	A	L							
SPACE	13.7	15.4	15.8	10.2	8.3	16	14.2	6.7	16	14.2	17	24	14.1	10.6	13.7	182.6				
COPY		M	I	L	E	L														
SPACE	105.7	12	4.4	9.2	7.5	71.2	33.1													
COPY		1/2	L																	
SPACE	71.2	22	116.8	22																
COPY																				
SPACE																				

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

100 YEARS

PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

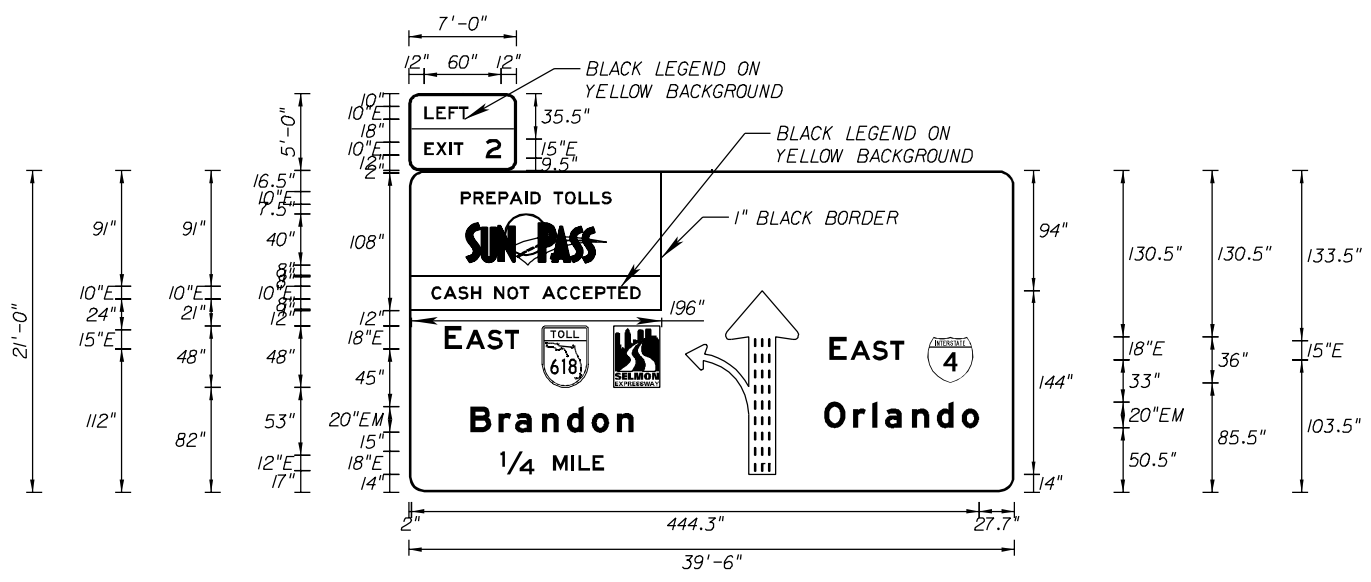
GUIDE SIGN WORK SHEET (5)

SHEET NO.
S-41

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.

SIGN NUMBER	OHT-5				
QUANTITY	1				
WIDTH	39'-6"				
HEIGHT	21'-0"				
BORDER WIDTH	2"				
BORDER RADII	12"				
BACKGROUND COLOR	Green				
LEGEND & BORDER COLOR	White				
STATION(S)	3767+00				
SYMBOL(S)	X	Y	WID	HT	
SUNPASS	0	44.4	178	110.1	40
MI_1	0	405.8	85.5	36	36
IO2A	0	104.2	82	36	48
LEE_ROY_SELMON	160.2	82	36	48	
DIAGRAM	0	216.2	14	88.6	144

- NOTES:
- SEE PLAN SHEET S-10 AND CROSS SECTION SHEET S-51 FOR LOCATION DETAILS.
 - THE DEPARTMENT WILL PROVIDE THE SUNPASS LOGO IN MICROSTATION FORMAT FOR USE IN SIGN FABRICATION.
 - SEE SHEET S-42 FOR DIAGRAMMATIC ARROW DETAIL.



SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE		AVERAGE LENGTH																
		STEEL	ALUMINUM																	
COPY																				
SPACE	12	9.2	9.5	8.3	7.5	37.5	34.5													
COPY																				
SPACE	12	8.9	10.7	3.5	7.5	41.4	30.6													
COPY																				
SPACE	59.9	12.2	12	12.2																
COPY																				
SPACE	40.4	9.8	10.1	9.5	8.9	11.9	4.4	8.1	10	8.9	10.7	9.2	8.6	8.1	315.4	118.2				
COPY																				
SPACE	17.5	9.5	11.3	10.1	8.1	10	10.4	9.8	7.5	10	11.6	10.1	10.4	9.5	8.9	9.2	9.5	8.1	292.5	164
COPY																				
SPACE	27.7	13.5	3	17	13.8	11.2	387.8	58.5												
COPY																				
SPACE	329.3	13.5	3	17	13.8	11.3	86.2	58.5												
COPY																				
SPACE	324.9	22.8	14.8	10.2	21.2	19.4	19.4	13.6	27.7	121.4										
COPY																				
SPACE	48.1	21.8	13	21.2	19.4	19.4	19.8	13.2	298.1	127.8										
COPY																				
SPACE	112.8	14.4	5.3	11	9	321.5	39.7													
COPY																				
SPACE	71.4	26.4	376.2	26.4																
COPY																				
SPACE																				

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EORs: BIJAN BEHZADI, P.E., No. 43868

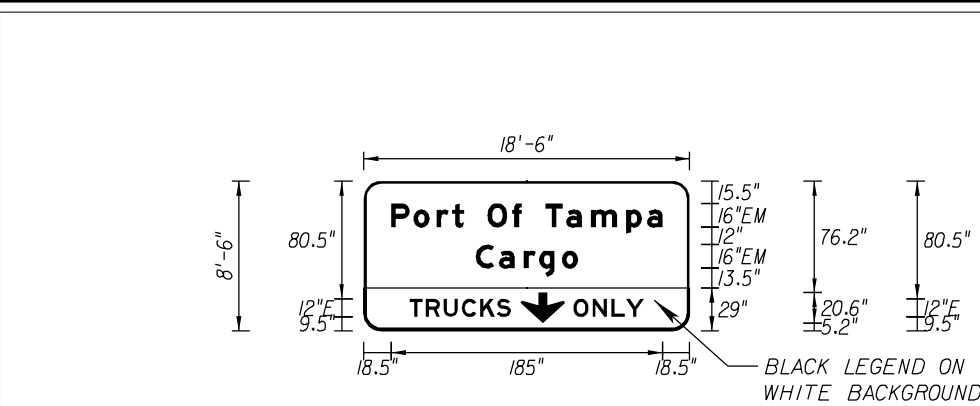
(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

GUIDE SIGN WORK SHEET (7)

SHEET NO.
S-43

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

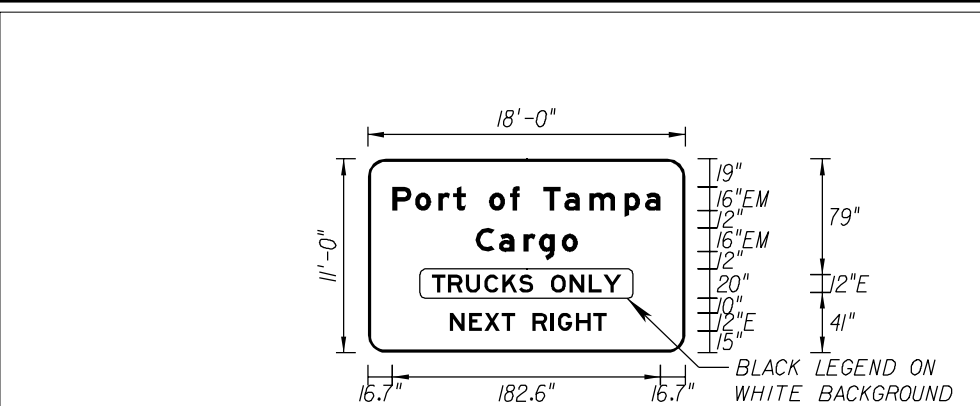
SIGN NUMBER	OHC-1, OHC-10				
QUANTITY	2				
WIDTH	18'-6"				
HEIGHT	8'-6"				
BORDER WIDTH	2"				
BORDER RADII	12"				
BACKGROUND COLOR	Green				
LEGEND & BORDER COLOR	White				
STATION(S)	10030+80, 6034+80				
SYMBOL(S)	X	Y	WID	HT	
ARDOWN	0	106.9	5.2	30	20.6
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE		
	EDGE OF LANE	STEEL	ALUMINUM	LENGTH	



NOTES:
1. SEE PLAN SHEET S-33 & S-34 AND CROSS SECTION SHEET S-58 & S-61 FOR LOCATION DETAILS.

COPY	P	O	R	T	O	F	T	A	M	P	A	L				
SPACE	18.5	15.4	15.8	10.2	8.3	16	16.6	6.7	16	14.2	17	24	14.1	10.6	18.5	185
COPY	C	A	R	G	O	L										
SPACE	76.1	16	17	10.4	15.5	10.9	76.1	69.8								
COPY	T	R	U	C	K	S	L									
SPACE	31.2	11	12.1	12.5	12.5	11.2	9.7	121.8	69							
COPY	O	N	L	Y	L											
SPACE	142.9	12.8	12.8	10	12.2	31.2	47.9									
COPY																
SPACE																
COPY																
SPACE																

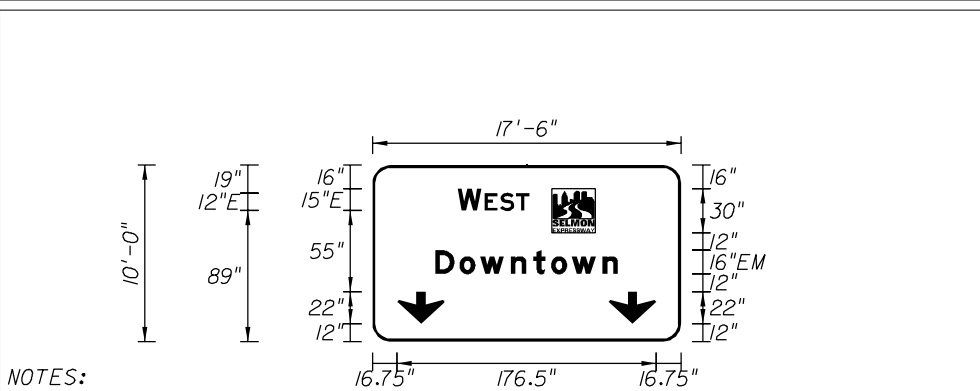
SIGN NUMBER	OHT-7				
QUANTITY	1				
WIDTH	18'-0"				
HEIGHT	11'-0"				
BORDER WIDTH	2"				
BORDER RADII	12"				
BACKGROUND COLOR	Green				
LEGEND & BORDER COLOR	White				
STATION(S)	8030+50				
SYMBOL(S)	X	Y	WID	HT	
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE		
	EDGE OF LANE	STEEL	ALUMINUM	LENGTH	



NOTES:
1. SEE PLAN SHEET S-14 AND CROSS SECTION SHEET S-60 FOR LOCATION DETAILS.

COPY	P	O	R	T	O	F	T	A	M	P	A	L				
SPACE	16.7	15.4	15.8	10.2	8.3	16	14.2	6.7	16	14.2	17	24	14.1	10.6	16.7	182.6
COPY	C	A	R	G	O	L										
SPACE	73.1	16	17	10.4	15.5	10.9	73.1	69.8								
COPY	T	R	U	C	K	S	O	N	L	Y	L					
SPACE	43.6	11	12.1	12.5	12.5	11.2	9.7	12	12.8	12.8	10	12.2	43.6	128.9		
COPY	N	E	X	T	R	I	G	H	T	L						
SPACE	55.9	12.8	10.7	11.8	9	12	12.1	4.9	12.5	11.8	9	53.5	106.6			
COPY																
SPACE																
COPY																
SPACE																

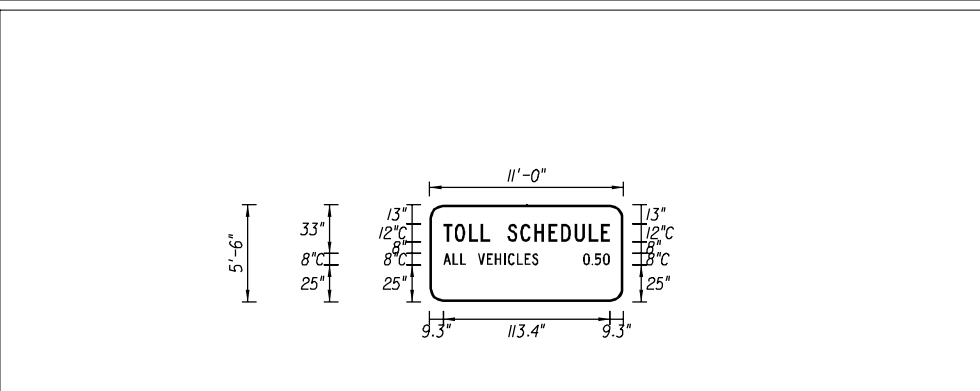
SIGN NUMBER	OHC-11				
QUANTITY	1				
WIDTH	17'-6"				
HEIGHT	10'-0"				
BORDER WIDTH	2"				
BORDER RADII	12"				
BACKGROUND COLOR	Green				
LEGEND & BORDER COLOR	White				
STATION(S)	6034+80				
SYMBOL(S)	X	Y	WID	HT	
LEE_ROY_SEL30	121.9	74	30	30	
ARDOWN	0	17	12.1	32	22
ARDOWN	0	161	12.1	32	22
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE		
	EDGE OF LANE	STEEL	ALUMINUM	LENGTH	



NOTES:
1. SEE PLAN SHEET S-33 AND CROSS SECTION SHEET S-61 FOR LOCATION DETAILS.
2. THE DEPARTMENT WILL PROVIDE THE SUNPASS LOGO IN MICROSTATION FORMAT FOR USE IN SIGN FABRICATION.

COPY	W	E	S	T	L											
SPACE	58.1	15.9	2.2	10.7	11	9	103.1	48.8								
COPY	D	O	W	N	T	O	W	N	L							
SPACE	42.8	16.3	14.1	21	15.4	12	14.1	21	10.6	42.8	124.3					
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

SIGN NUMBER	GM-1				
QUANTITY	1				
WIDTH	11'-0"				
HEIGHT	5'-6"				
BORDER WIDTH	1.75"				
BORDER RADII	9"				
BACKGROUND COLOR	White				
LEGEND & BORDER COLOR	Black				
STATION(S)	8020+40				
SYMBOL(S)	X	Y	WID	HT	
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE		
	EDGE OF LANE	STEEL	ALUMINUM	LENGTH	



NOTES:
1. SEE PLAN SHEET S-13 FOR LOCATION DETAILS.

COPY	T	O	L	L	S	C	H	E	D	U	L	E	L			
SPACE	9.3	7.8	9.8	8	6.1	12	8.8	9.4	9.7	8.4	9.4	9.7	8	6.1	9.3	113.4
COPY	A	L	L	V	E	H	I	C	L	E	S	L				
SPACE	9.3	6.2	5.2	4.1	8	6.1	5.4	6.2	2.7	6.1	5.2	5	4.5	57.9	64.8	
COPY	O	.	5	O	L											
SPACE	104.5	5.8	2.1	5.7	4.7	9.3	18.2									
COPY																
SPACE																
COPY																
SPACE																

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

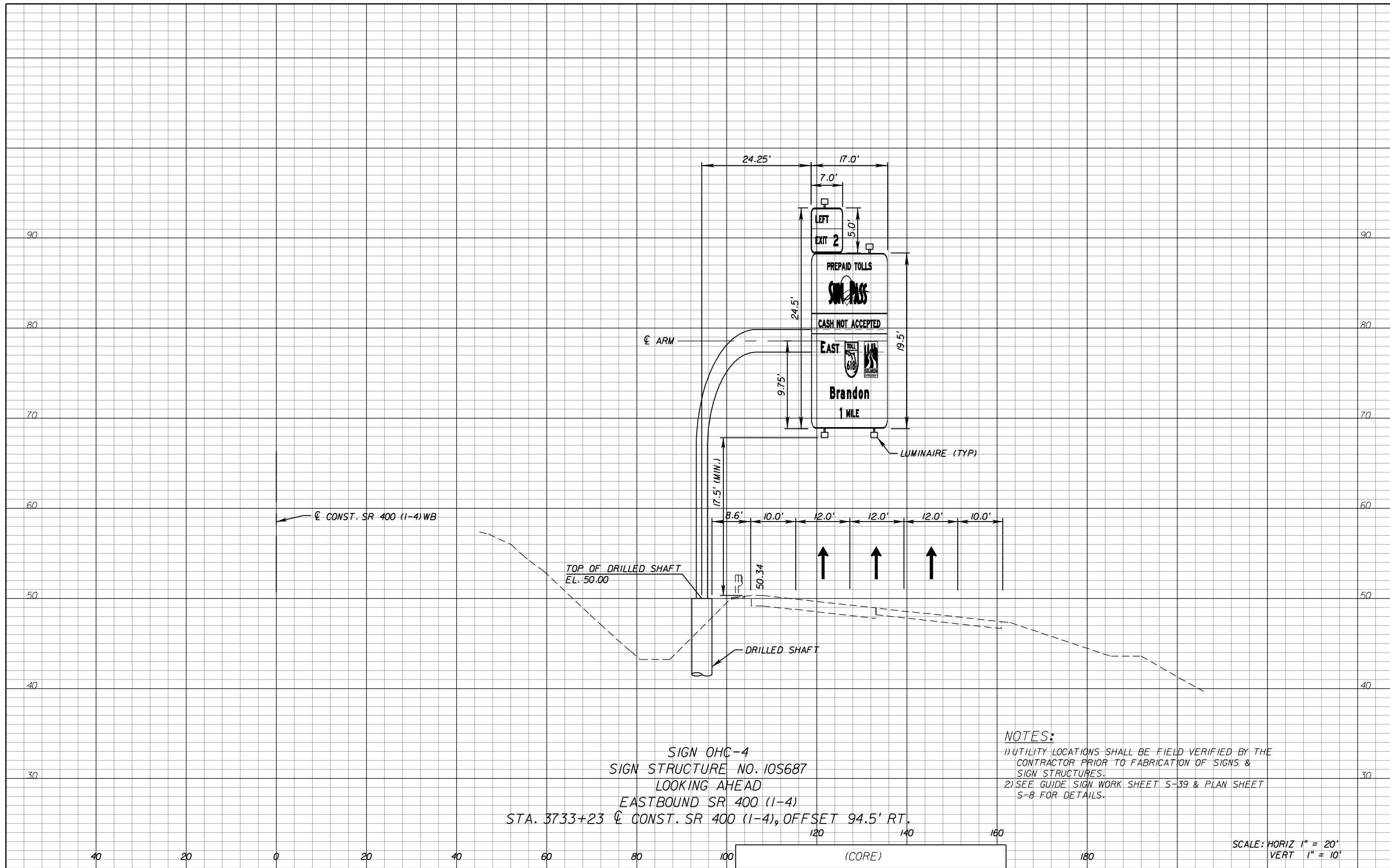
PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EORs: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

GUIDE SIGN WORK SHEET (9)	
SHEET NO.	S-45

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.

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SIGN OHC-4
SIGN STRUCTURE NO. 10S687
LOOKING AHEAD
EASTBOUND SR 400 (1-4)
STA. 3733+23 ϕ CONST. SR 400 (1-4), OFFSET 94.5' RT.

- NOTES:**
- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 - 2) SEE GUIDE SIGN WORK SHEET S-39 & PLAN SHEET S-8 FOR DETAILS.

SCALE: HORIZ 1" = 20'
VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

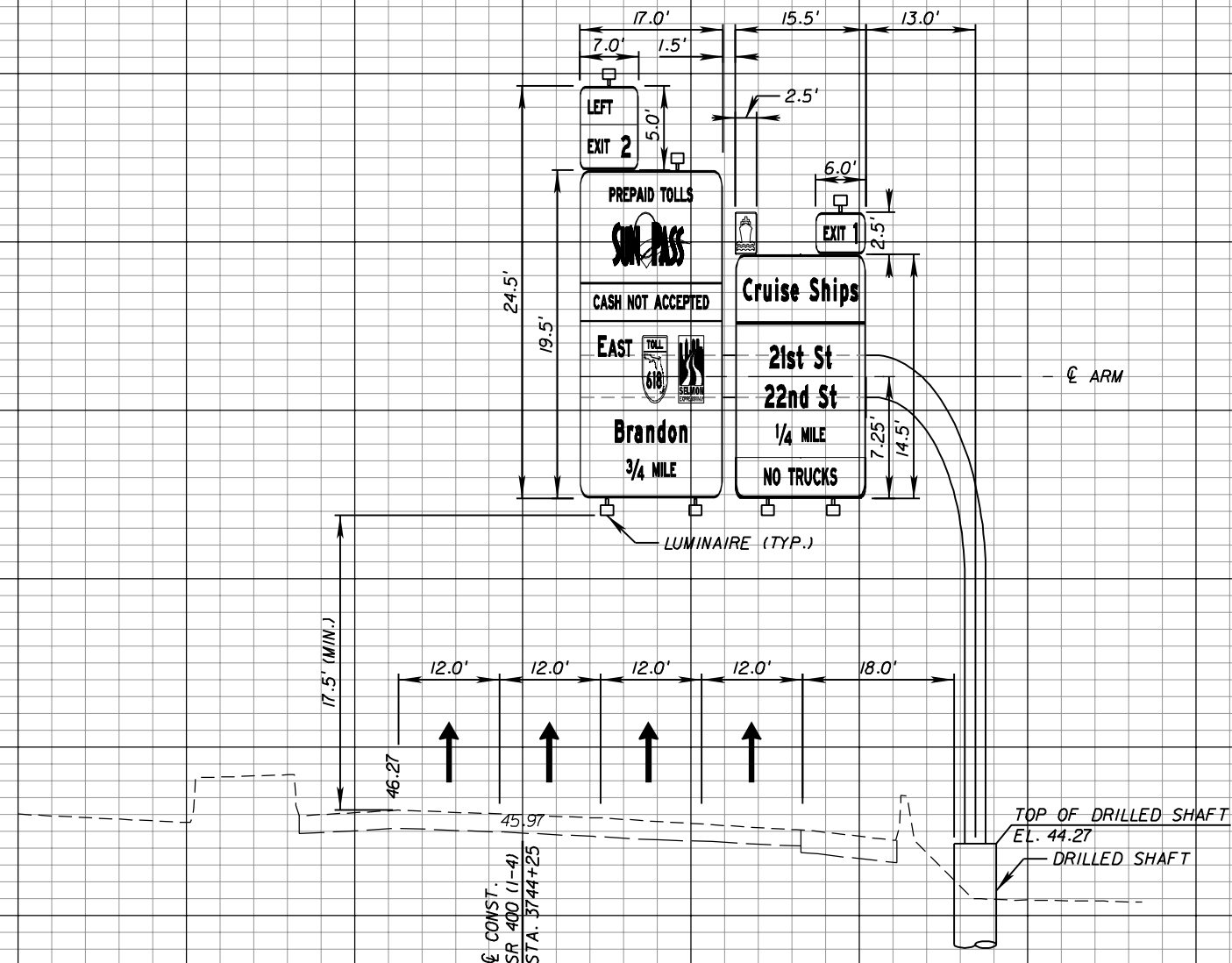
PB Americas, Inc.
5405 West Cypress St, Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E. No. 43868

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO. SR 400	COUNTY HILLSBOROUGH	FINANCIAL PROJECT ID 258415-2-52-01

SIGN CROSS SECTIONS (1)

SHEET NO.
S-48

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.




NOTES:

- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
- 2) SEE GUIDE SIGN WORK SHEET S-39, S-40 AND S-46 & PLAN SHEET S-9 FOR DETAILS.

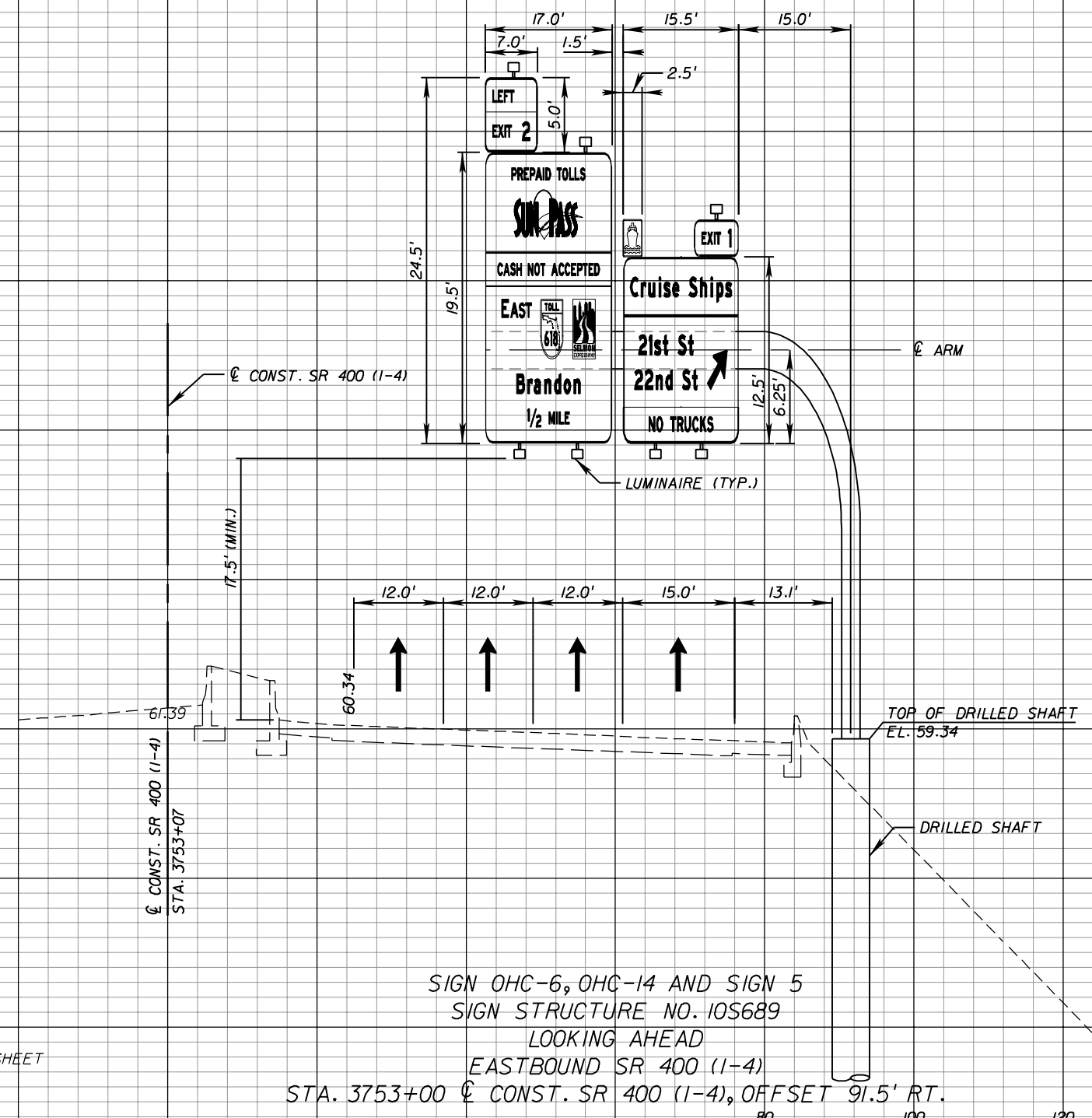
SIGN OHC-5, OHC-13 AND SIGN 3
SIGN STRUCTURE NO. 105688
LOOKING AHEAD

EASTBOUND SR 400 (1-4)
STA. 3744+25 @ CONST. SR 400 (1-4), OFFSET 53.75' RT.

SCALE: HORIZ 1" = 20'
VERT 1" = 10'

REVISIONS						 PB Americas, Inc. 5405 West Cypress St, Suite 300 Tampa, Florida 33607 (813) 289-5300 Cert. of Auth. No. 01462 EOR: BIJAN BEHZADI, P.E. No. 43868	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGN CROSS SECTIONS (2)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-49
						SR 400	HILLSBOROUGH	258415-2-52-01			


NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

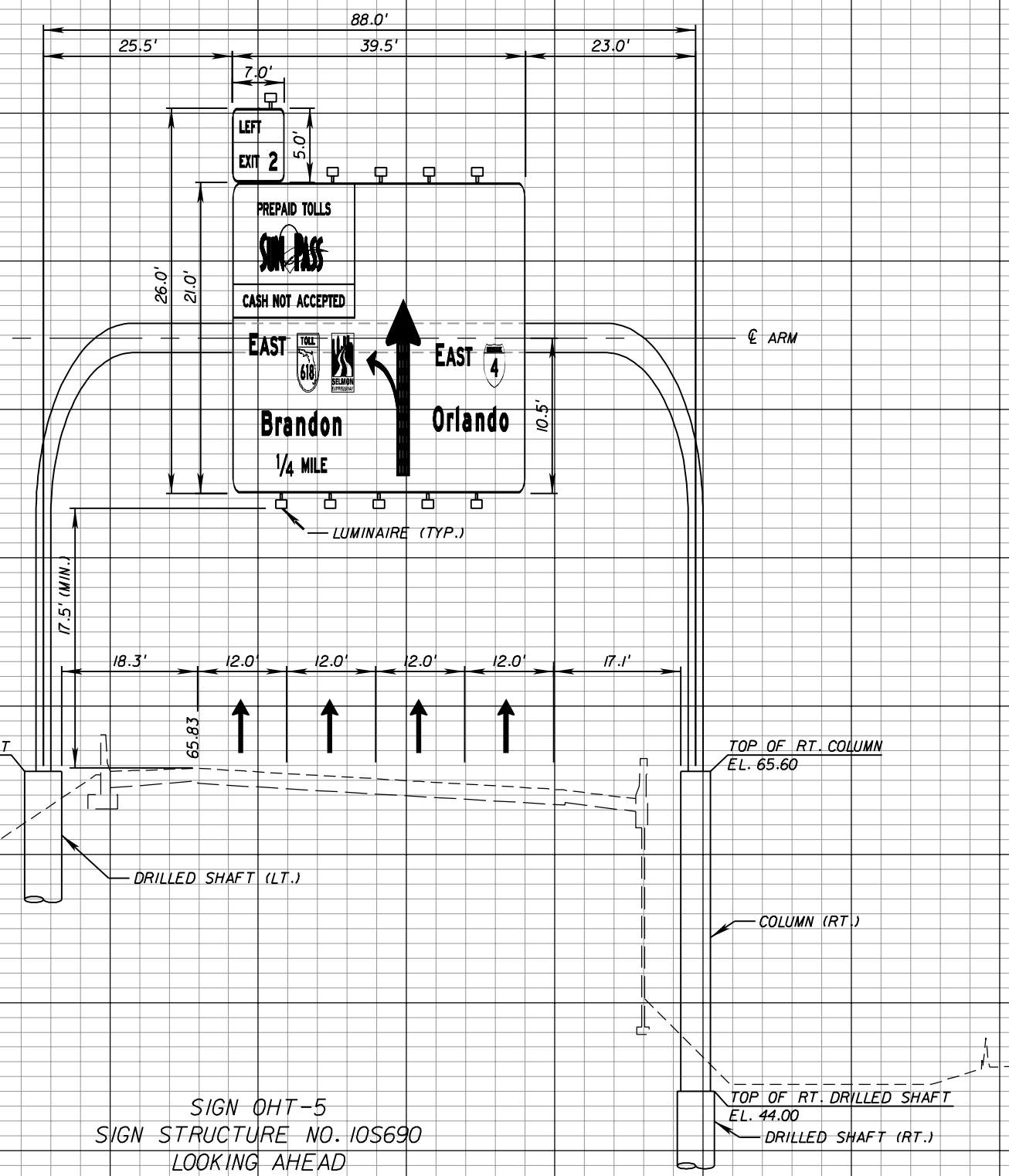


NOTES:
 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 2) SEE GUIDE SIGN WORK SHEET S-40 & S-46 & PLAN SHEET S-10 FOR DETAILS.

SIGN OHC-6, OHC-14 AND SIGN 5
 SIGN STRUCTURE NO. 105689
 LOOKING AHEAD
 EASTBOUND SR 400 (I-4)
 STA. 3753+00 @ CONST. SR 400 (I-4), OFFSET 91.5' RT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS						 PB Americas, Inc. 5405 West Cypress St, Suite 300 Tampa, Florida 33607 (813) 289-5300 Cert. of Auth. No. 01462 EOR: BIJAN BEHZADI, P.E. No. 43868	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGN CROSS SECTIONS (3) SHEET NO. S-50
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	HILLSBOROUGH	258415-2-52-01		



NOTES:
 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 2) SEE GUIDE SIGN WORK SHEET S-43 & PLAN SHEET S-10 FOR DETAILS.

SIGN OHT-5
 SIGN STRUCTURE NO. 10S690
 LOOKING AHEAD
 EASTBOUND SR 400 (I-4)
 STA. 3767+00 @ CONST. SR 400 (I-4), OFFSET 31.0' RT. & 119.0' RT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

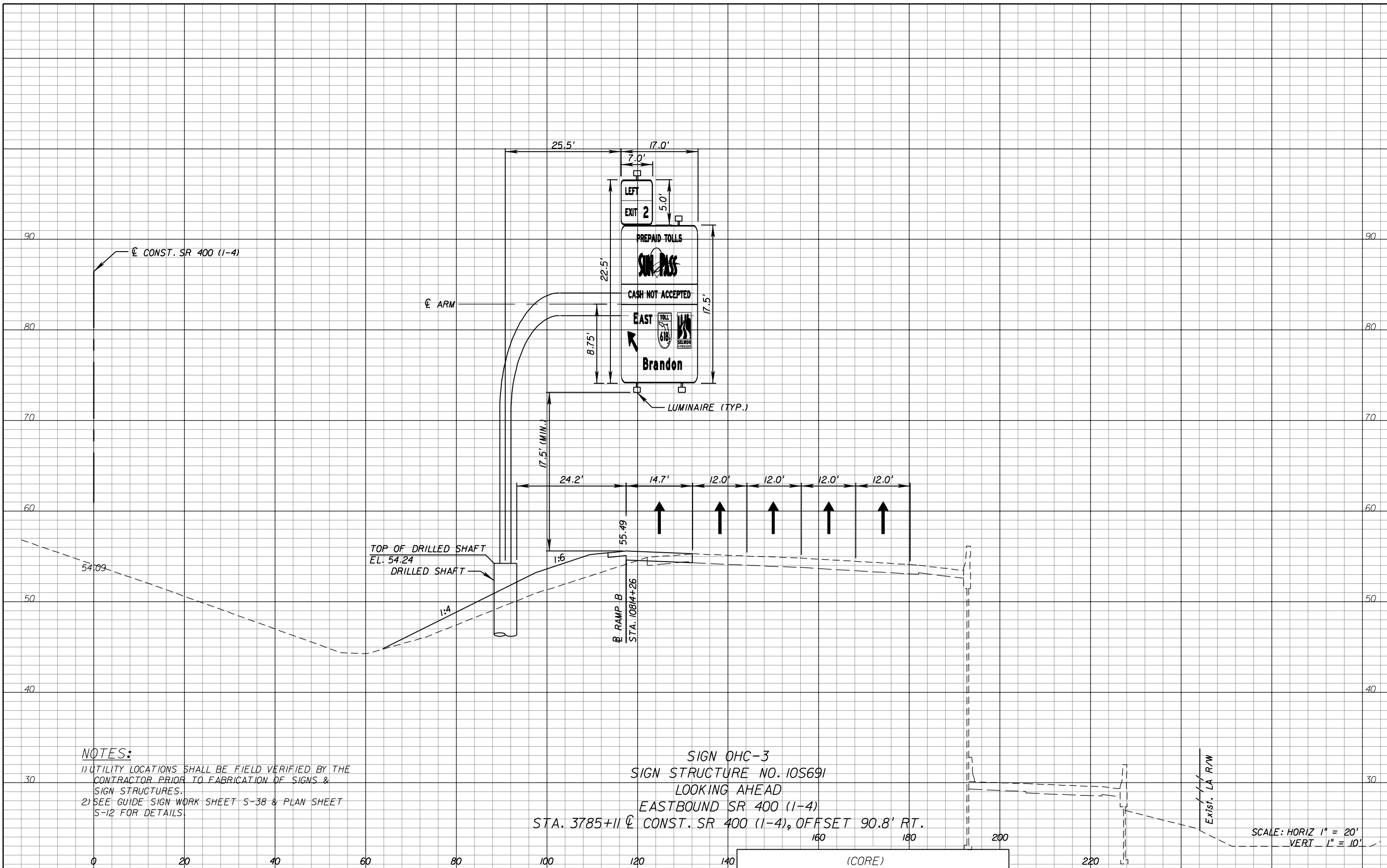
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 EOR: BIJAN BEHZADI, P.E. No. 43868

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGN CROSS SECTIONS (4)

SHEET NO.
 S-51

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:

- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
- 2) SEE GUIDE SIGN WORK SHEET S-38 & PLAN SHEET S-12 FOR DETAILS

SIGN OHC-3
 SIGN STRUCTURE NO. 10S69I
 LOOKING AHEAD
 EASTBOUND SR 400 (I-4)
 STA. 3785+11 @ CONST. SR 400 (I-4), OFFSET 90.8' RT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

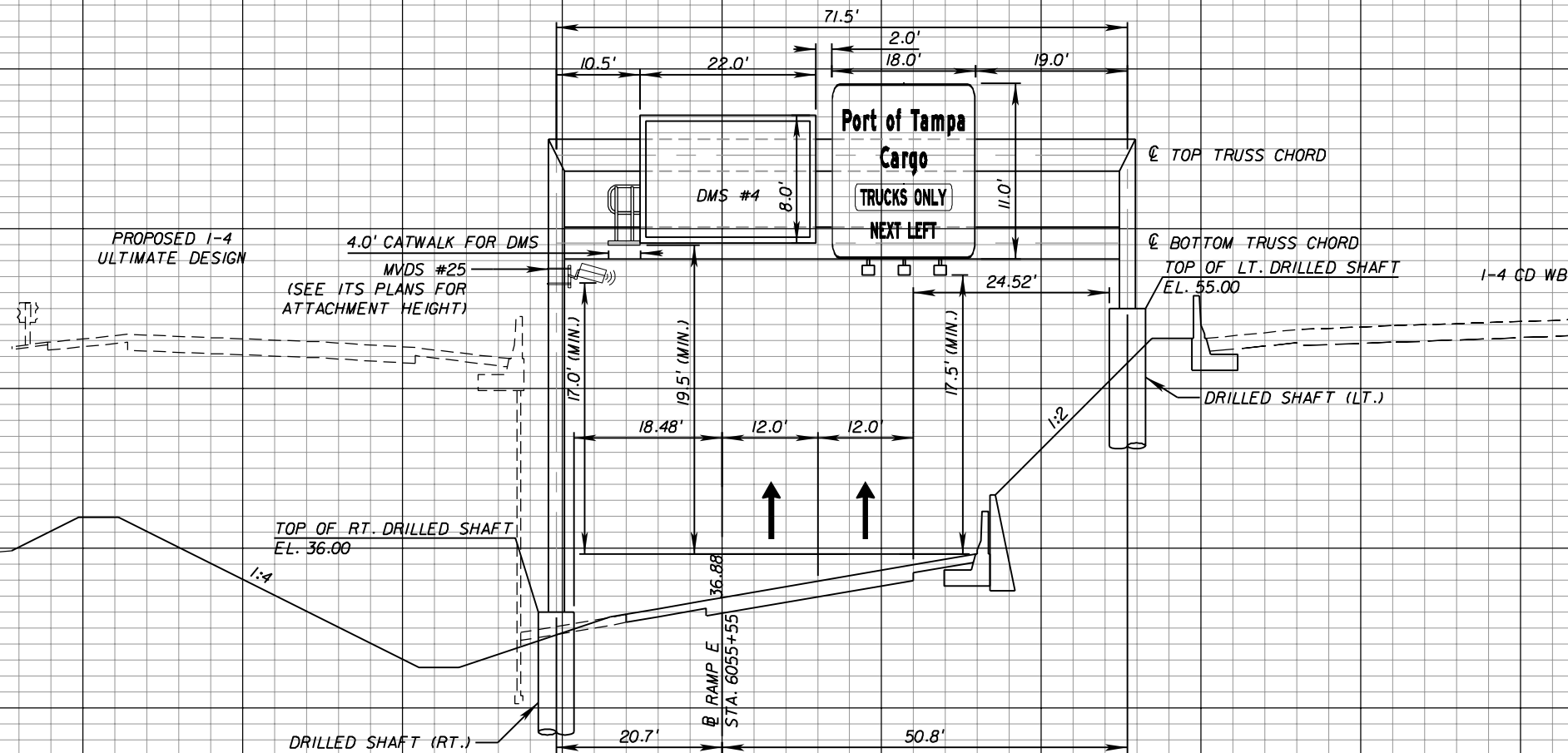
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 EOR: BIJAN BEHZADI, P.E. No. 43868

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGN CROSS SECTIONS (5)

SHEET NO.
S-52

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.




SIGN OHT-3
 SIGN STRUCTURE NO. 10S697
 LOOKING BACK
 SOUTHBOUND RAMP E
 STA. 6055+55 @ RAMP E, OFFSET 20.7' RT. & 50.8' LT.

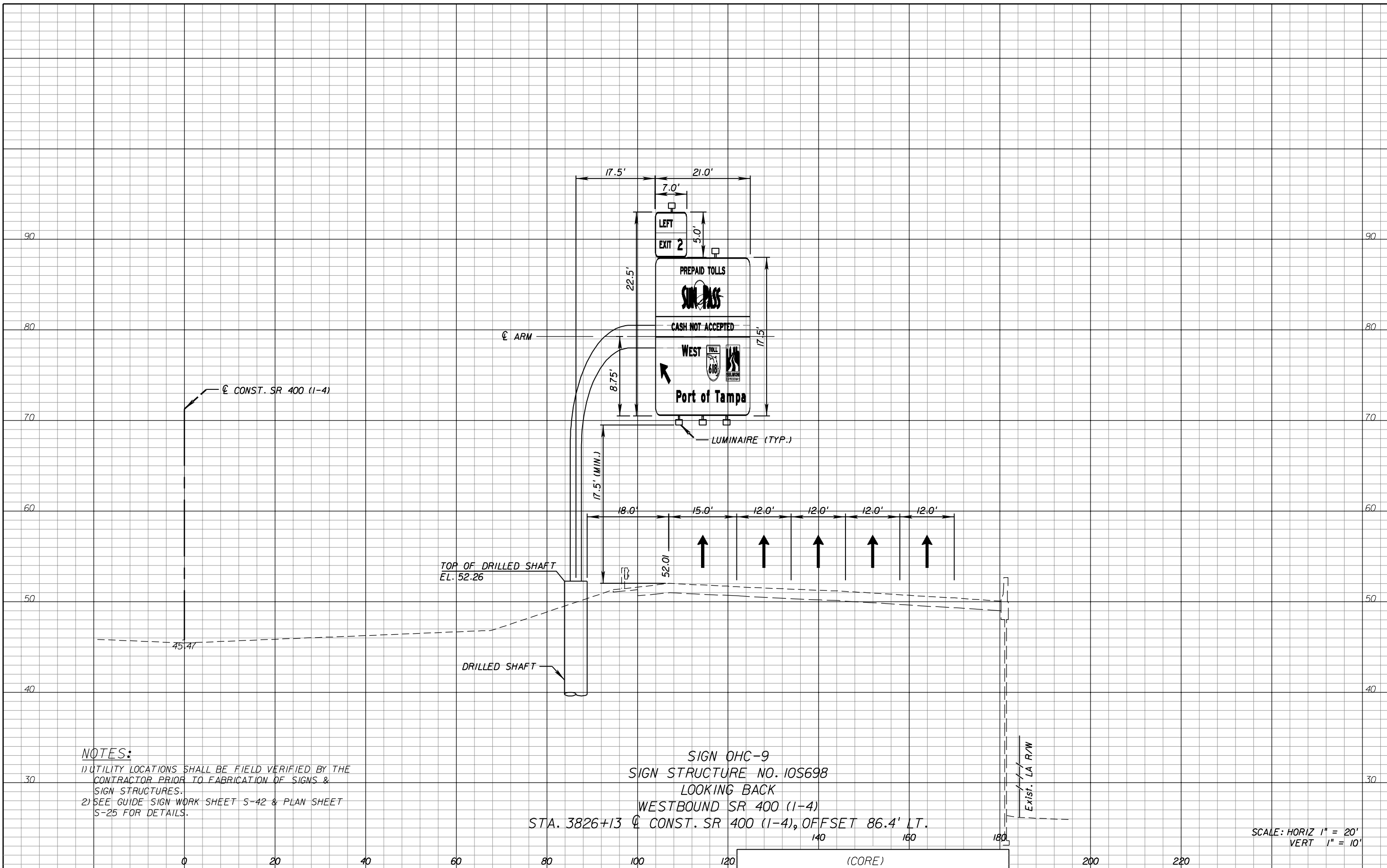
NOTES:
 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 2) SEE GUIDE SIGN WORK SHEET S-37 & PLAN SHEET S-23 FOR DETAILS.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

 PB Americas, Inc. 5405 West Cypress St, Suite 300 Tampa, Florida 33607 (813) 289-5300 Cert. of Auth. No. 01462 EOR: BIJAN BEHZADI, P.E. No. 43868			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGN CROSS SECTIONS (6) SHEET NO. S-53
ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
SR 400	HILLSBOROUGH	258415-2-52-01				

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NOTES:

- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
- 2) SEE GUIDE SIGN WORK SHEET S-42 & PLAN SHEET S-25 FOR DETAILS.

SIGN OHC-9
 SIGN STRUCTURE NO. 10S698
 LOOKING BACK
 WESTBOUND SR 400 (I-4)
 STA. 3826+13 @ CONST. SR 400 (I-4), OFFSET 86.4' LT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

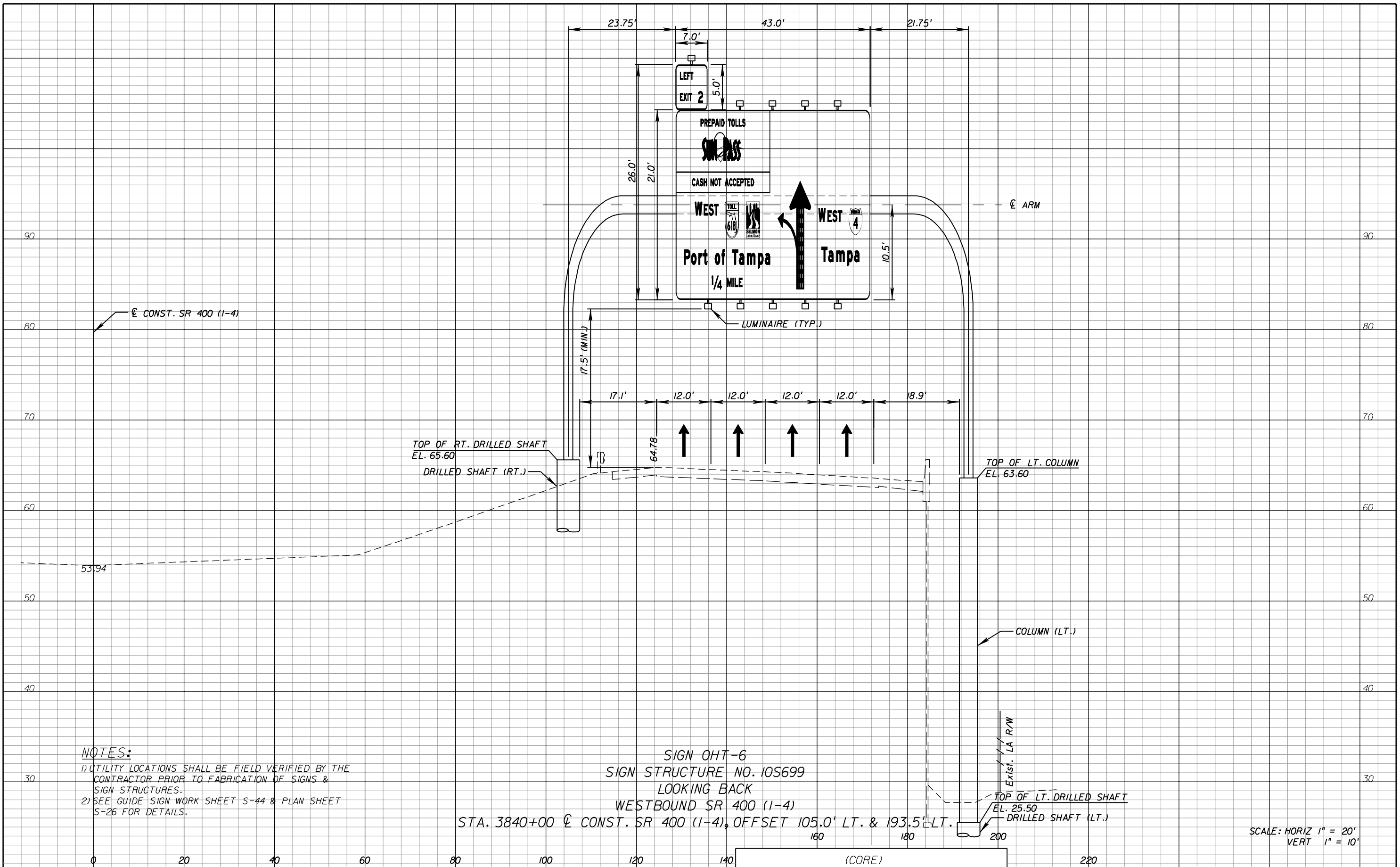
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 Tampa, Florida 33607
 (813) 289-5300
 Cert. of Auth. No. 01462
 EOR: BIJAN BEHZADI, P.E. No. 43868

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGN CROSS SECTIONS (7)

SHEET NO.
S-54

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:

- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
- 2) SEE GUIDE SIGN WORK SHEET S-44 & PLAN SHEET S-26 FOR DETAILS.

SIGN OHT-6
SIGN STRUCTURE NO. 10S699
LOOKING BACK
WESTBOUND SR 400 (I-4)
STA. 3840+00 @ CONST. SR 400 (I-4), OFFSET 105.0' LT. & 193.5' LT.

SCALE: HORIZ 1" = 20'
VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

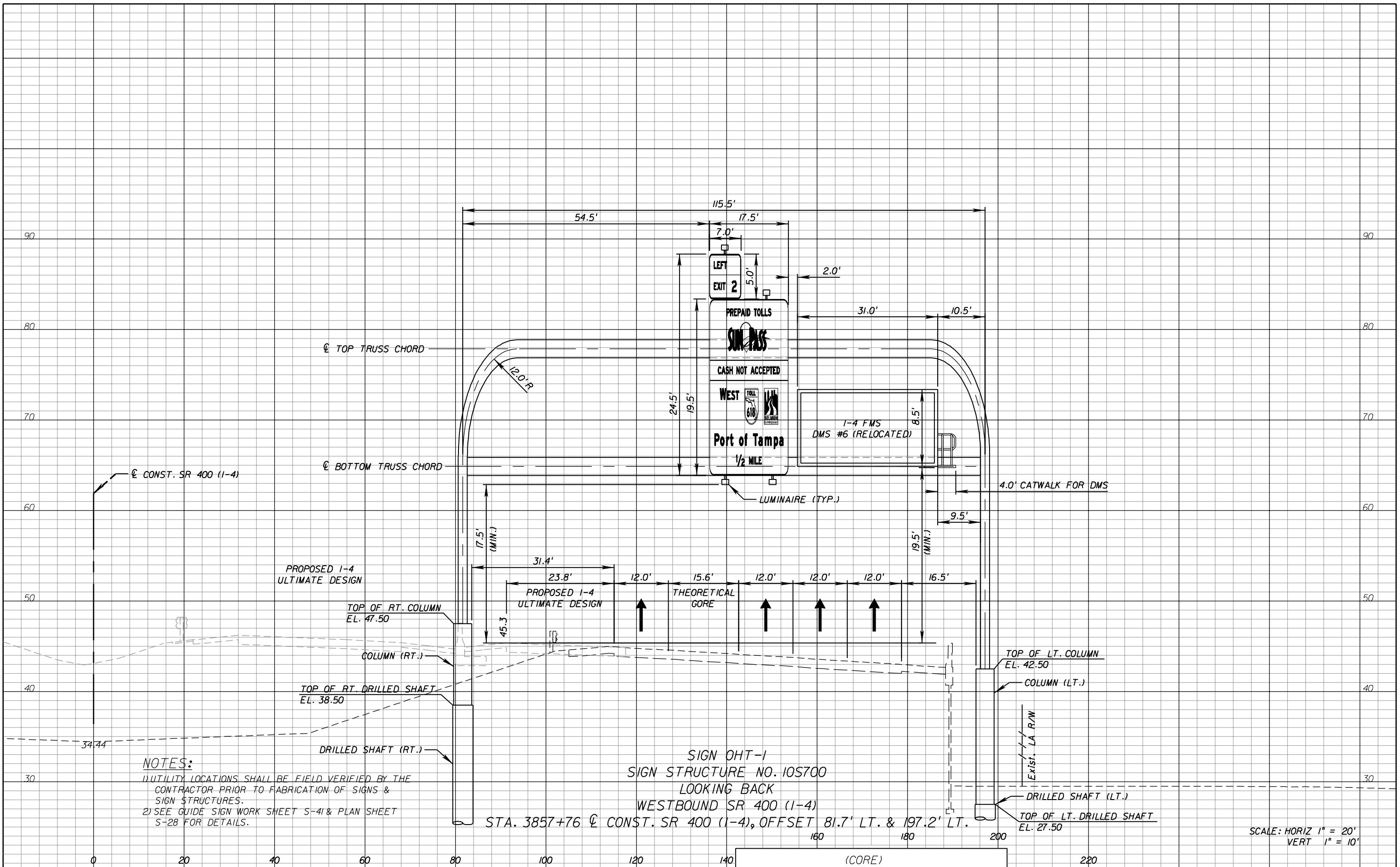
PB
PB Americas, Inc.
5405 West Cypress St, Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E. No. 43868

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGN CROSS SECTIONS (8)

SHEET NO.
S-55

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:
 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 2) SEE GUIDE SIGN WORK SHEET S-41 & PLAN SHEET S-28 FOR DETAILS.

SIGN OHT-1
 SIGN STRUCTURE NO. 10S700
 LOOKING BACK
 WESTBOUND SR 400 (I-4)

STA. 3857+76 @ CONST. SR 400 (I-4), OFFSET 81.7' LT. & 197.2' LT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PB
 100 YEARS

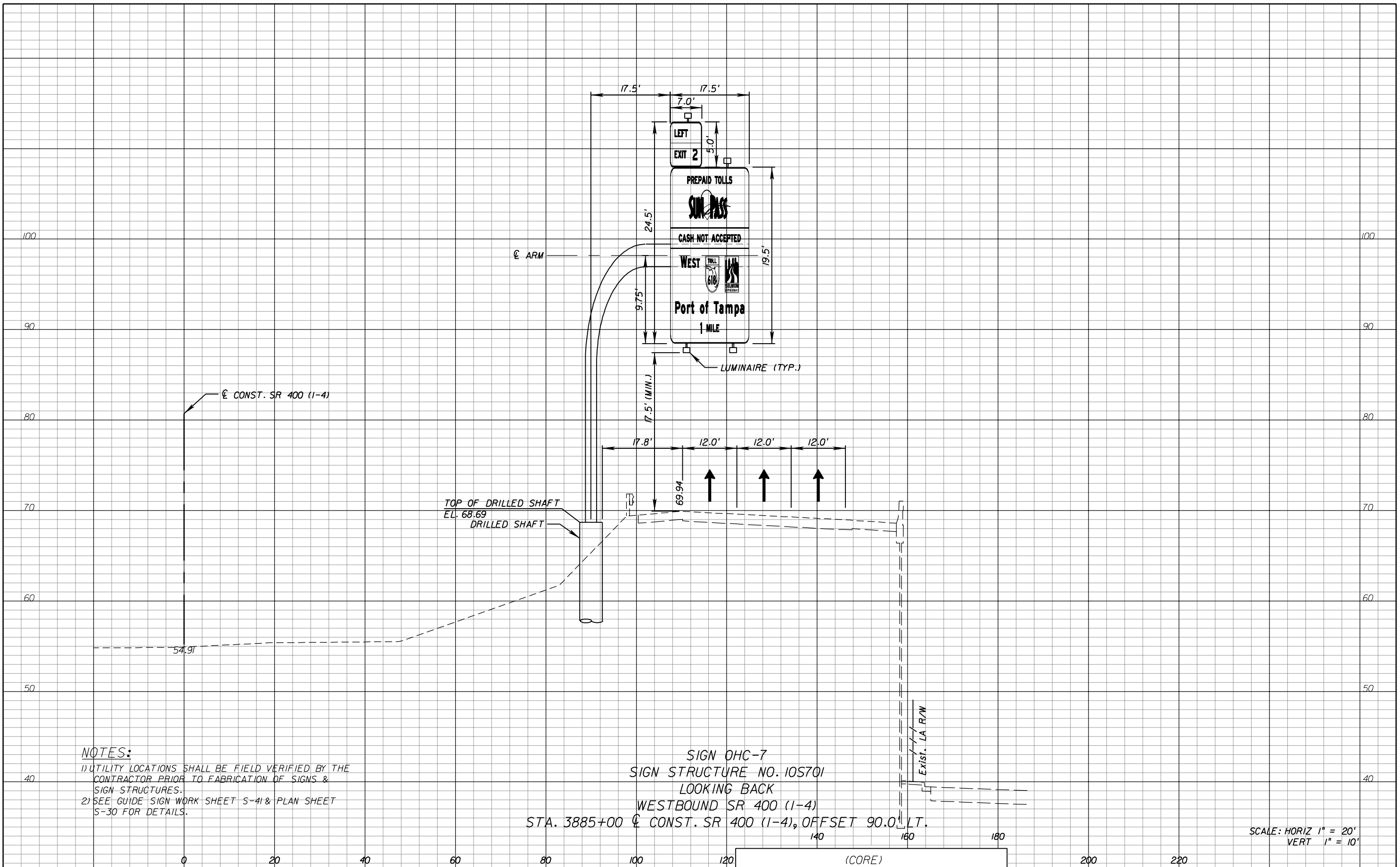
PB Americas, Inc.
 5405 West Cypress St, Suite 300
 Tampa, Florida 33607
 (813) 289-5300
 Cert. of Auth. No. 01462
 EOR: BIJAN BEHZADI, P.E. No. 43868

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGN CROSS SECTIONS (9)

SHEET NO.
 S-56

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:

- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
- 2) SEE GUIDE SIGN WORK SHEET S-41 & PLAN SHEET S-30 FOR DETAILS.

SIGN OHC-7
 SIGN STRUCTURE NO. 105701
 LOOKING BACK
 WESTBOUND SR 400 (I-4)
 STA. 3885+00 \pm CONST. SR 400 (I-4), OFFSET 90.0' LT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

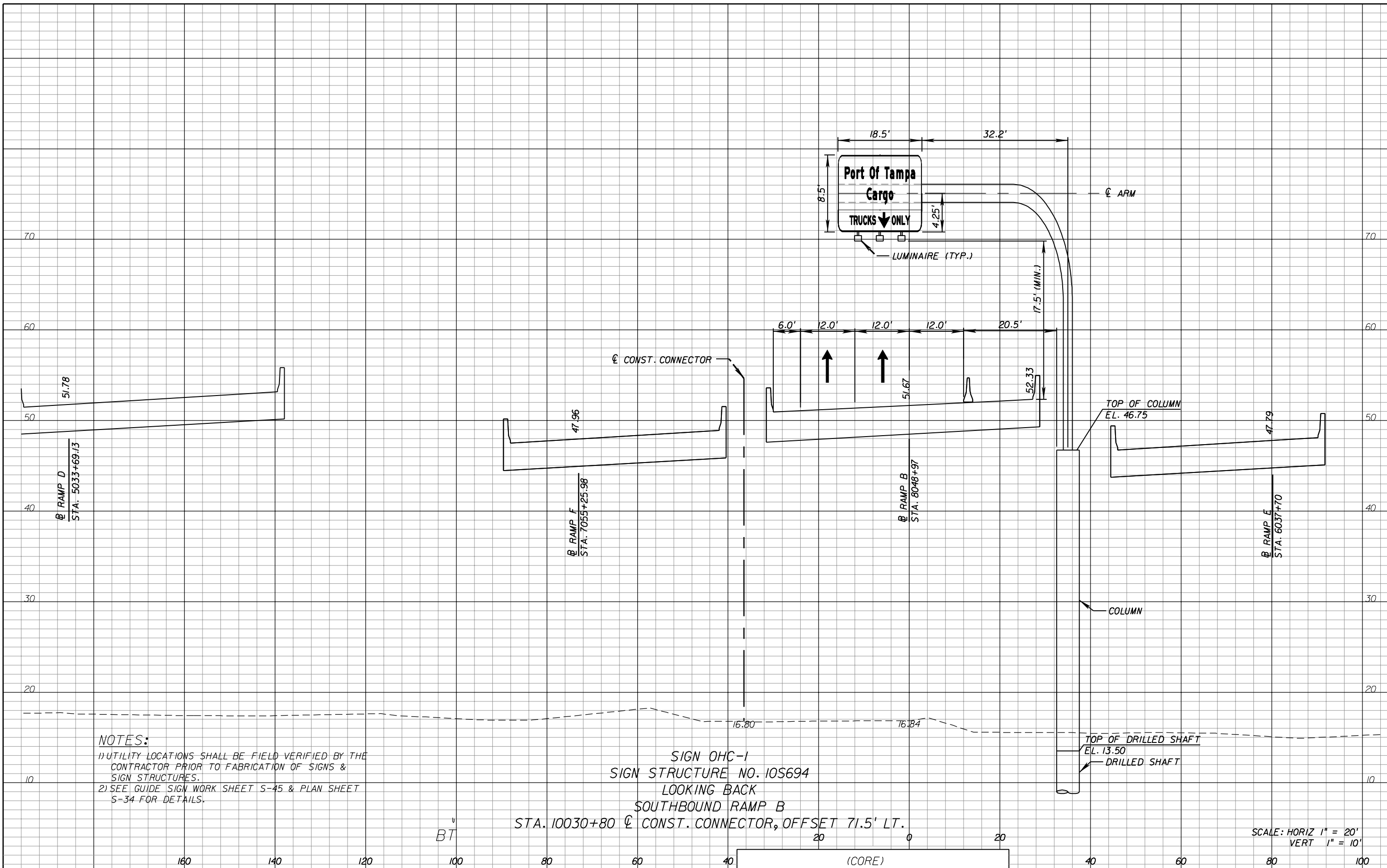
PB
 PB Americas, Inc.
 5405 West Cypress St, Suite 300
 Tampa, Florida 33607
 (813) 289-5300
 Cert. of Auth. No. 01462
 EOR: BIJAN BEHZADI, P.E. No. 43868

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGN CROSS SECTIONS (10)

SHEET NO.
 S-57

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:
 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 2) SEE GUIDE SIGN WORK SHEET S-45 & PLAN SHEET S-34 FOR DETAILS.

SIGN OHC-1
 SIGN STRUCTURE NO. 10S694
 LOOKING BACK
 SOUTHBOUND RAMP B
 STA. 10030+80 @ CONST. CONNECTOR, OFFSET 71.5' LT.

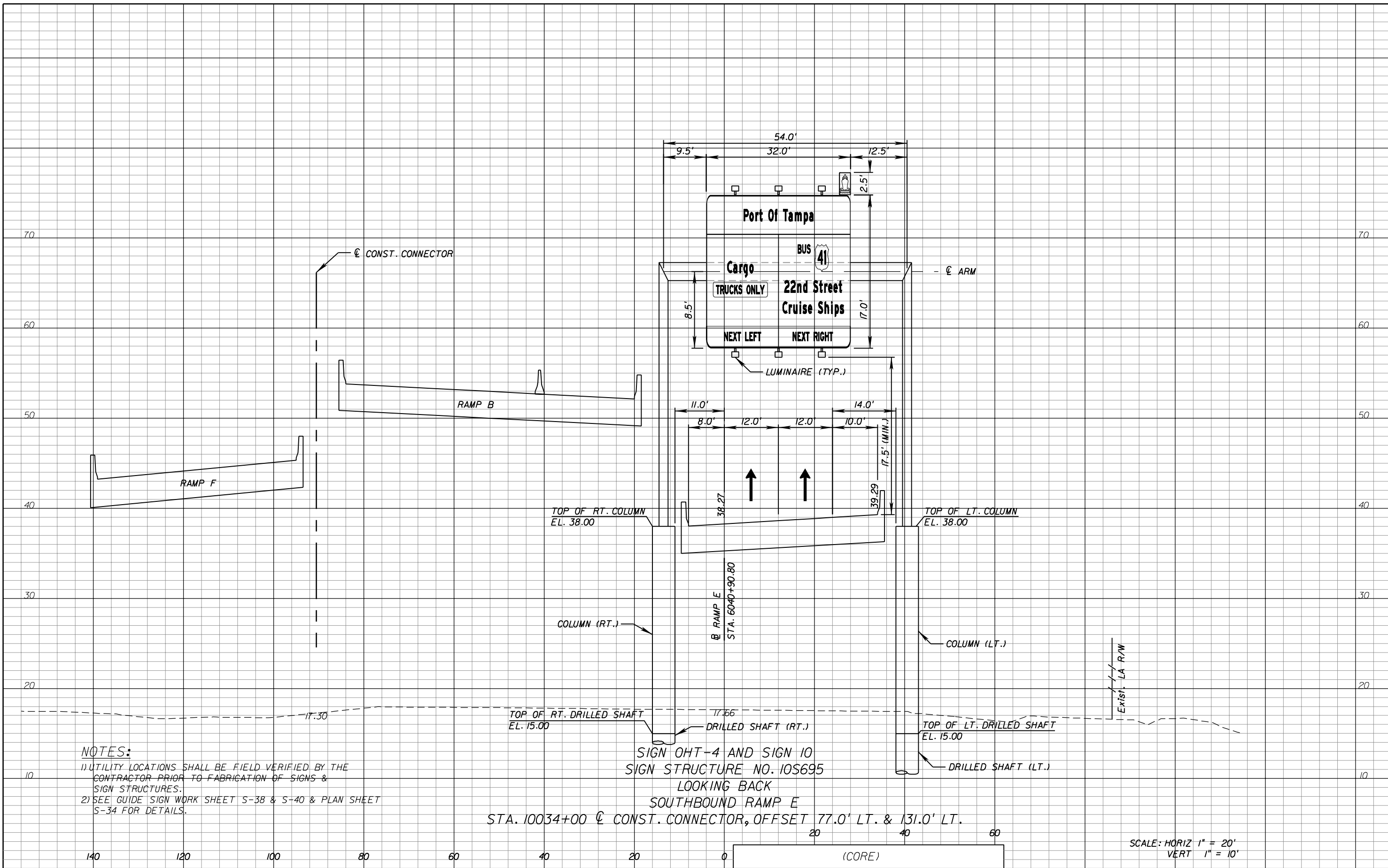
SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

DATE		BY	DESCRIPTION	DATE		BY	DESCRIPTION
REVISIONS							
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION							
ROAD NO.		COUNTY		FINANCIAL PROJECT ID			
SR 400		HILLSBOROUGH		258415-2-52-01			
SIGN CROSS SECTIONS (11)							
							SHEET NO. S-58

PB
100 YEARS
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 Cert. of Auth. No. 01462
 EOR: BIJAN BEHZADI, P.E. No. 43868

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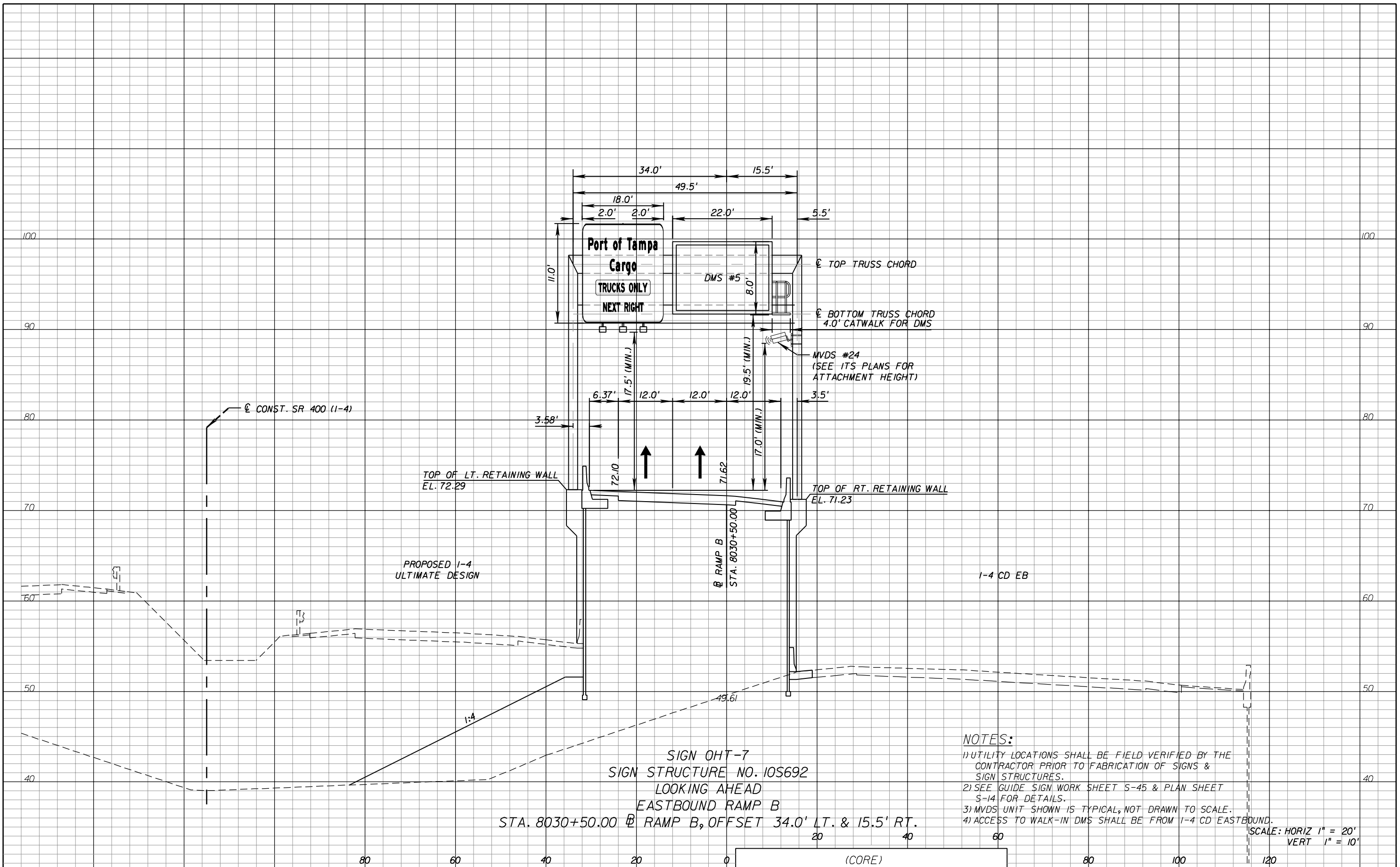


NOTES:
 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 2) SEE GUIDE SIGN WORK SHEET S-38 & S-40 & PLAN SHEET S-34 FOR DETAILS.

SIGN OHT-4 AND SIGN 10
 SIGN STRUCTURE NO. 105695
 LOOKING BACK
 SOUTHBOUND RAMP E
 STA. 10034+00 @ CONST. CONNECTOR, OFFSET 77.0' LT. & 131.0' LT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS						 PB Americas, Inc. 5405 West Cypress St, Suite 300 Tampa, Florida 33607 (813) 289-5300 Cert. of Auth. No. 01462 EOR: BIJAN BEHZADI, P.E. No. 43868	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGN CROSS SECTIONS (12) SHEET NO. S-59
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	HILLSBOROUGH	258415-2-52-01		



SIGN OHT-7
 SIGN STRUCTURE NO. 10S692
 LOOKING AHEAD
 EASTBOUND RAMP B
 STA. 8030+50.00 @ RAMP B, OFFSET 34.0' LT. & 15.5' RT.

- NOTES:**
- UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 - SEE GUIDE SIGN WORK SHEET S-45 & PLAN SHEET S-14 FOR DETAILS.
 - MVDS UNIT SHOWN IS TYPICAL, NOT DRAWN TO SCALE.
 - ACCESS TO WALK-IN DMS SHALL BE FROM I-4 CD EASTBOUND.
- SCALE: HORIZ 1" = 20'
VERT 1" = 10'

REVISIONS					
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 EOR: BIJAN BEHZADI, P.E., No. 43868

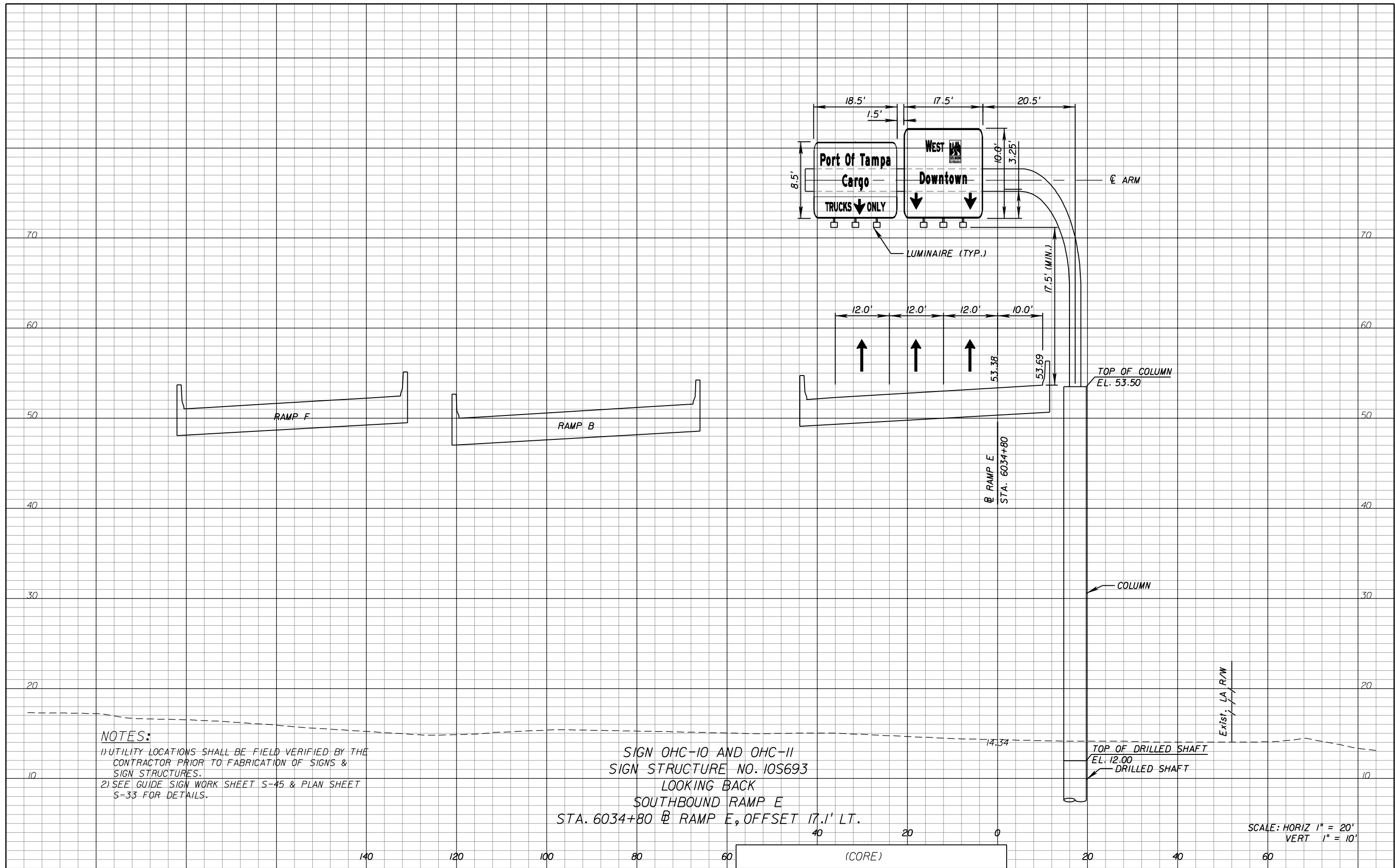
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGN CROSS SECTIONS (13)

SHEET NO.
S-60

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NOTES:

- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
- 2) SEE GUIDE SIGN WORK SHEET S-45 & PLAN SHEET S-33 FOR DETAILS.

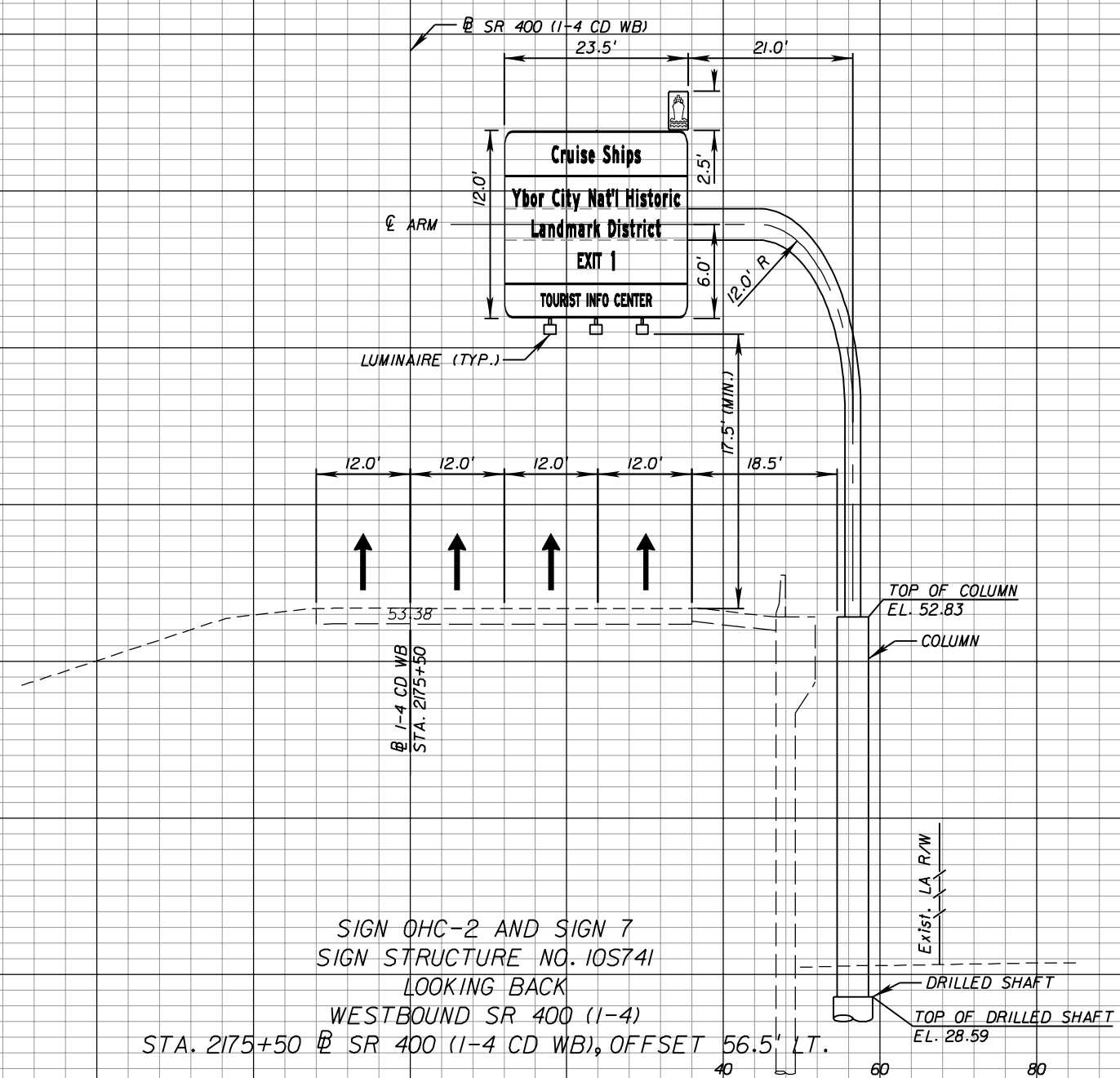
SIGN OHC-10 AND OHC-11
 SIGN STRUCTURE NO. 10S693
 LOOKING BACK
 SOUTHBOUND RAMP E
 STA. 6034+80 @ RAMP E, OFFSET 17.1' LT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS						 PB Americas, Inc. 5405 West Cypress St, Suite 300 Tampa, Florida 33607 (813) 289-5300 Cert. of Auth. No. 01462 EOR: BIJAN BEHZADI, P.E. No. 43868	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGN CROSS SECTIONS (1A)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-61
						SR 400	HILLSBOROUGH	258415-2-52-01			

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NOTES:
 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 2) SEE GUIDE SIGN WORK SHEET S-37, S-40 & PLAN SHEET S-23 FOR DETAILS.

SIGN OHC-2 AND SIGN 7
 SIGN STRUCTURE NO. 105741
 LOOKING BACK
 WESTBOUND SR 400 (1-4)
 STA. 2175+50 @ SR 400 (1-4 CD WB), OFFSET 56.5' LT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

DATE		BY	DESCRIPTION	REVISIONS		DATE	BY	DESCRIPTION



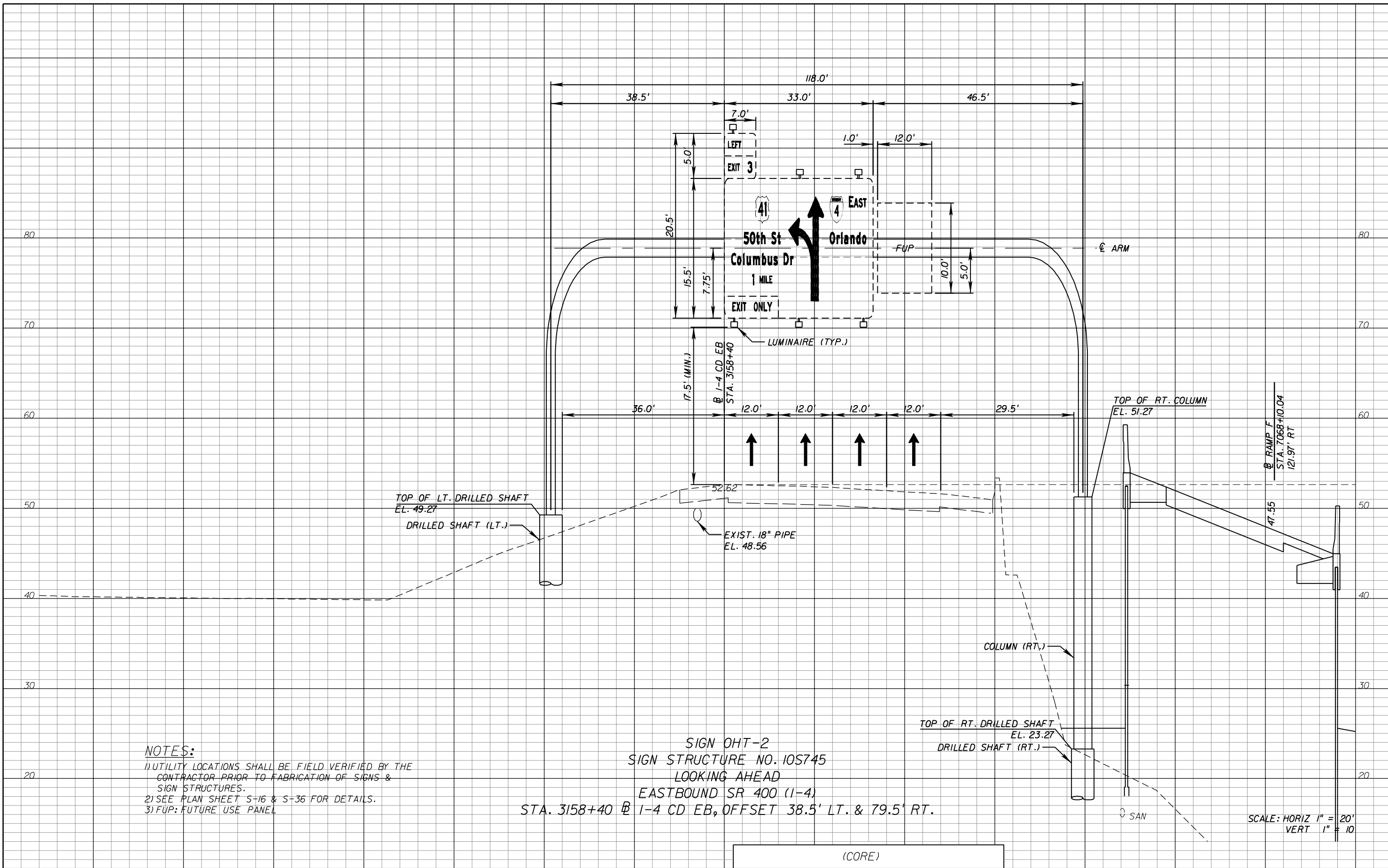
PB Americas, Inc.
 5405 West Cypress St, Suite 300
 Tampa, Florida 33607
 (813) 289-5300
 Cert. of Auth. No. 01462
 EOR: BIJAN BEHZADI, P.E. No. 43868

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGN CROSS SECTIONS (15)

SHEET NO.
S-62



NOTES:
 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 2) SEE PLAN SHEET S-16 & S-36 FOR DETAILS.
 3) FUP: FUTURE USE PANEL

SIGN OHT-2
 SIGN STRUCTURE NO. 105745
 LOOKING AHEAD
 EASTBOUND SR 400 (1-4)
 STA. 3158+40 @ 1-4 CD EB, OFFSET 38.5' LT. & 79.5' RT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PB
 100 YEARS

PB Americas, Inc.
 5405 West Cypress St, Suite 300
 Tampa, Florida 33607
 (813) 289-5300
 Cert. of Auth. No. 01462
 EOR: BIJAN BEHZADI, P.E. No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SIGN CROSS SECTIONS (16)

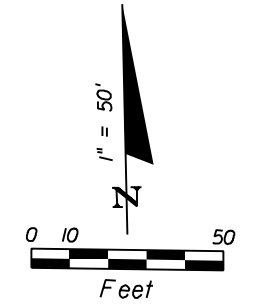
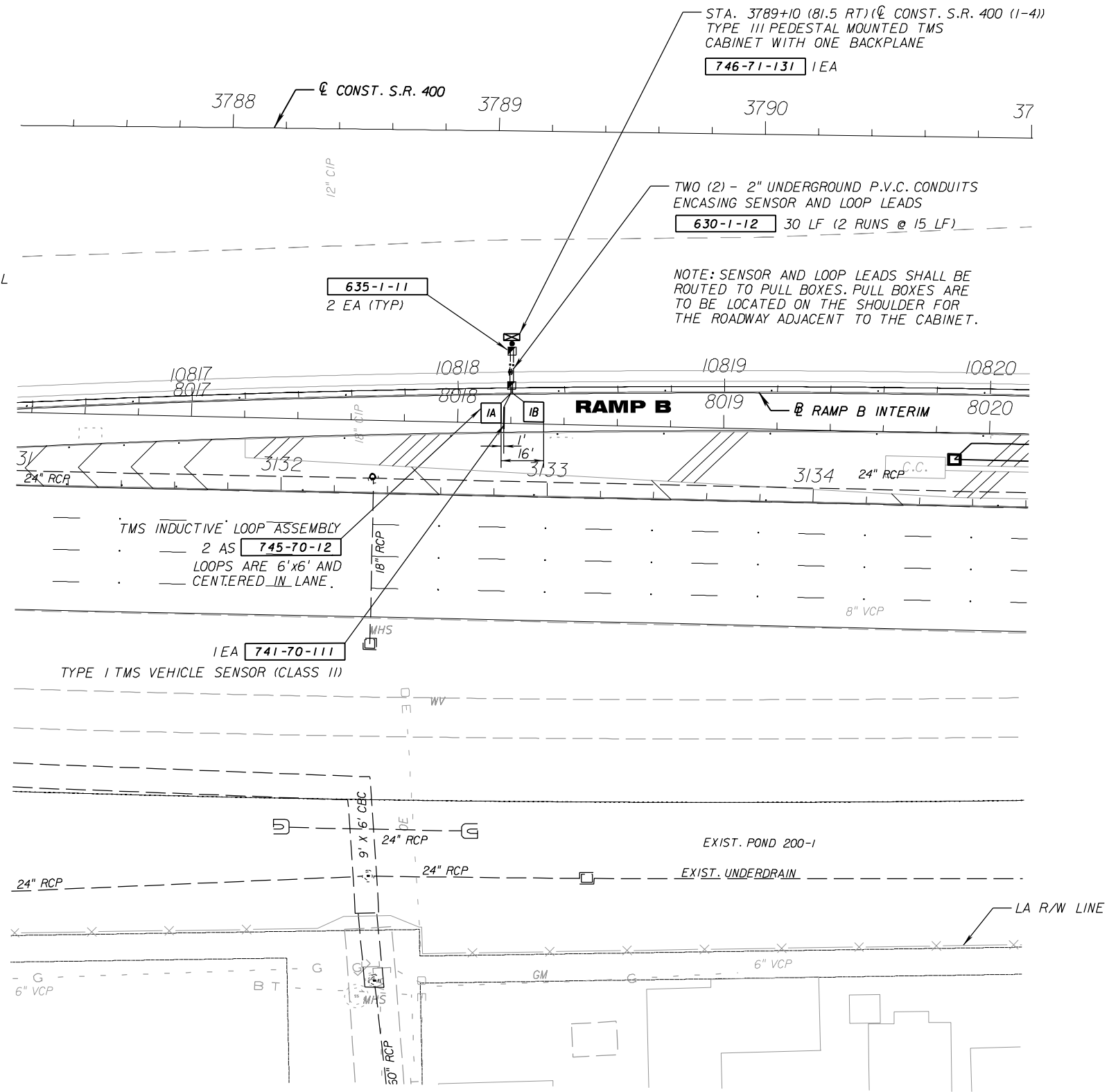
SHEET NO.
S-63

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

PORTABLE TRAFFIC MONITORING SITE
 STA. 3789+05 @ CONST. S.R. 400

PLAN NOTES AND INSTALLATION DETAILS FOR PORTABLE TRAFFIC MONITORING SITES

1. PORTABLE TRAFFIC MONITORING SITE (PTMS) TO BE MAINTAINED BY F.D.O.T. THE CONTRACTOR SHALL SUBMIT AT LEAST ONE COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
2. THE CONTRACTOR SHALL USE THE STANDARD INDEX I7900 FOR INSTALLATION OF TRAFFIC MONITORING SITES.
3. THE CONTRACTOR SHALL NOTIFY Mr. BRIAN HUNTER IN THE DISTRICT PLANNING OFFICE AT (813) 975-6413 AT LEAST SEVEN WORKING DAYS PRIOR TO INSTALLATION OF TRAFFIC MONITORING SITES.
4. PULL BOXES SHALL BE CONCRETE WITH STEEL LOCKING LID AND SHALL BE LISTED IN THE DEPARTMENT'S APPROVED PRODUCT LIST.
5. VEHICLE SENSORS SHALL BE PLACED PERPENDICULAR TO THE LANES.
6. INDUCTIVE LOOP AND VEHICLE SENSOR WIRES SHALL BE LABELED BOTH IN THE PULL BOXES AND THE CABINET.
7. WHEN PLACING INDUCTIVE LOOPS AND VEHICLE SENSORS IN CONCRETE PAVEMENT, THEY SHALL NOT CROSS EXPANSION JOINTS. THE LOOPS AND THE SENSORS CAN BE STAGGERED ACROSS THE LANES TO AVOID CROSSING EXPANSION JOINTS.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

100 YEARS

PB Americas, Inc.
 5405 West Cypress St. Suite 300
 Tampa, Florida 33607
 (813) 289-5300
 Cert. of Auth. No. 01462
 EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**PORTABLE TRAFFIC
MONITORING SITE DETAILS**

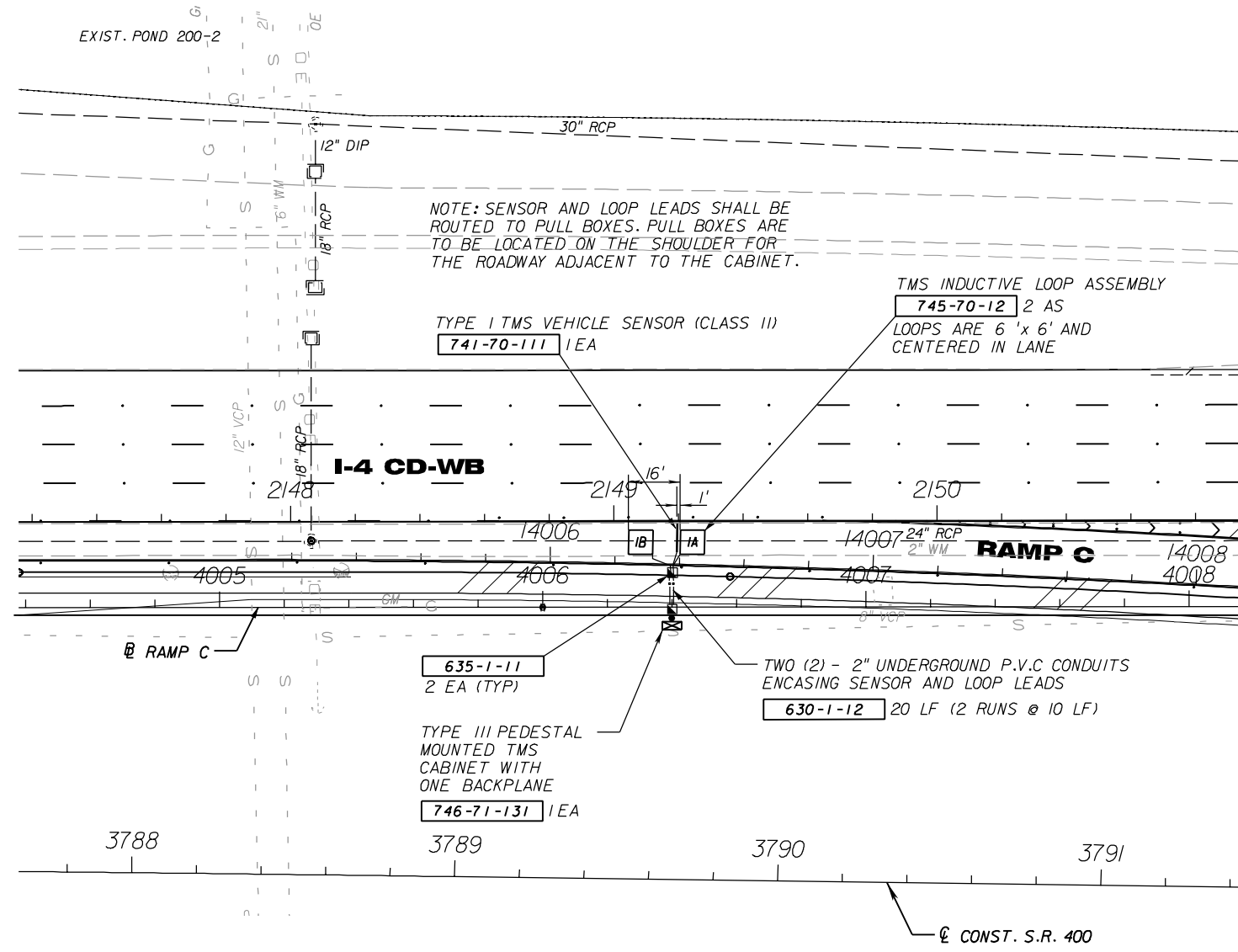
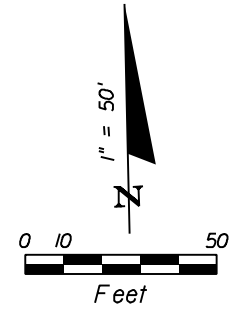
SHEET NO.
S-64

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PORTABLE TRAFFIC MONITORING SITE
STA. 3789+66 @ CONST. S.R. 400

PLAN NOTES AND INSTALLATION DETAILS FOR PORTABLE TRAFFIC MONITORING SITES

1. PORTABLE TRAFFIC MONITORING SITE (PTMS) TO BE MAINTAINED BY F.D.O.T. THE CONTRACTOR SHALL SUBMIT AT LEAST ONE COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
2. THE CONTRACTOR SHALL USE THE STANDARD INDEX I7900 FOR INSTALLATION OF TRAFFIC MONITORING SITES.
3. THE CONTRACTOR SHALL NOTIFY Mr. BRIAN HUNTER IN THE DISTRICT PLANNING OFFICE AT (813) 975-6413 AT LEAST SEVEN WORKING DAYS PRIOR TO INSTALLATION OF TRAFFIC MONITORING SITES.
4. PULL BOXES SHALL BE CONCRETE WITH STEEL LOCKING LID AND SHALL BE LISTED IN THE DEPARTMENT'S APPROVED PRODUCT LIST.
5. VEHICLE SENSORS SHALL BE PLACED PERPENDICULAR TO THE LANES.
6. INDUCTIVE LOOP AND VEHICLE SENSOR WIRES SHALL BE LABELED BOTH IN THE PULL BOXES AND THE CABINET.
7. WHEN PLACING INDUCTIVE LOOPS AND VEHICLE SENSORS IN CONCRETE PAVEMENT, THEY SHALL NOT CROSS EXPANSION JOINTS. THE LOOPS AND THE SENSORS CAN BE STAGGERED ACROSS THE LANES TO AVOID CROSSING EXPANSION JOINTS.



NOTE: SENSOR AND LOOP LEADS SHALL BE ROUTED TO PULL BOXES. PULL BOXES ARE TO BE LOCATED ON THE SHOULDER FOR THE ROADWAY ADJACENT TO THE CABINET.

TMS INDUCTIVE LOOP ASSEMBLY
745-70-12 2 AS
LOOPS ARE 6' x 6' AND CENTERED IN LANE

TYPE I TMS VEHICLE SENSOR (CLASS II)
741-70-111 1 EA

635-1-11
2 EA (TYP)

TYPE III PEDESTAL MOUNTED TMS CABINET WITH ONE BACKPLANE
746-71-131 1 EA

TWO (2) - 2\" UNDERGROUND P.V.C CONDUITS ENCASING SENSOR AND LOOP LEADS
630-1-12 20 LF (2 RUNS @ 10 LF)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Cert. of Auth. No. 01462
EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**PORTABLE TRAFFIC
MONITORING SITE DETAILS**

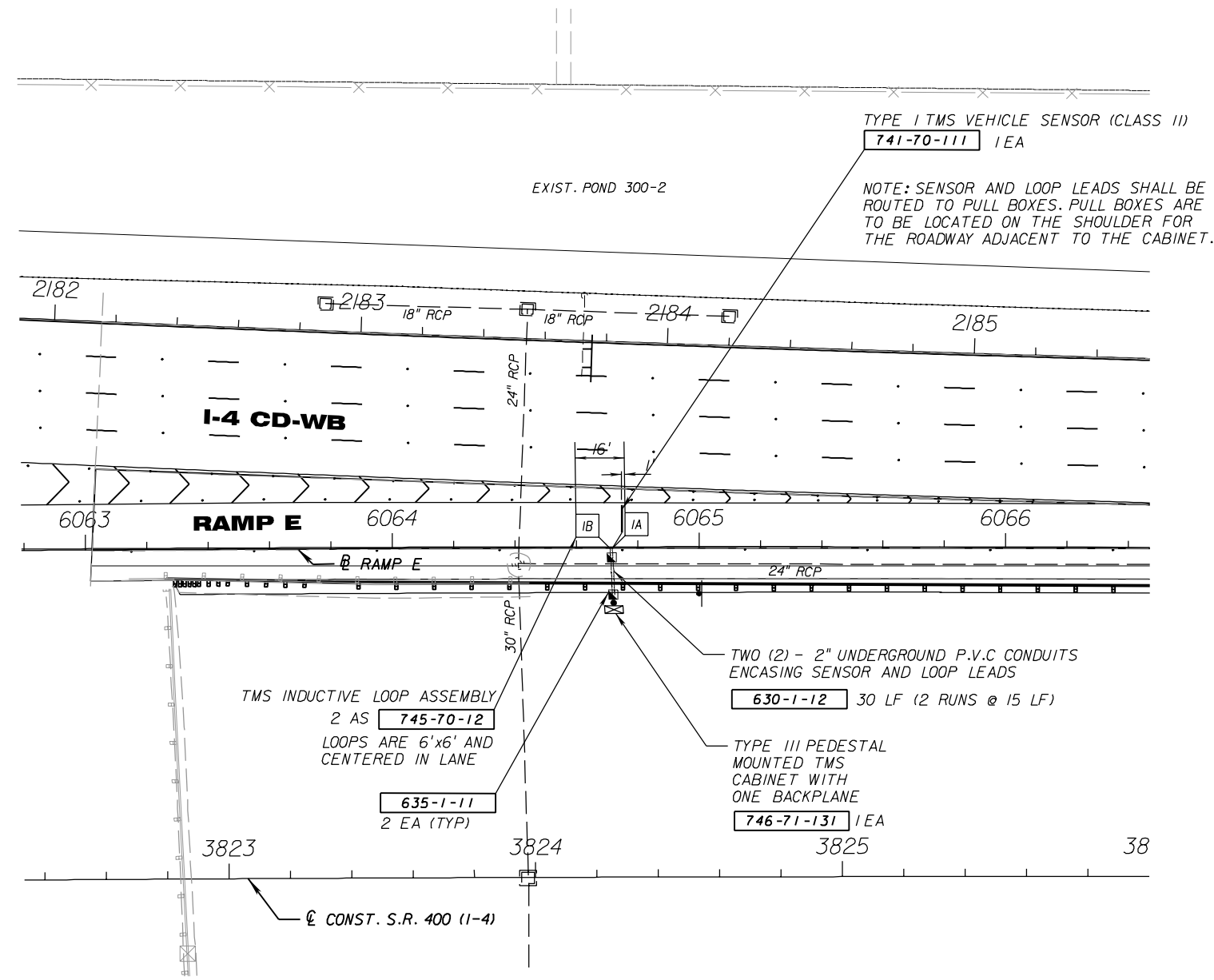
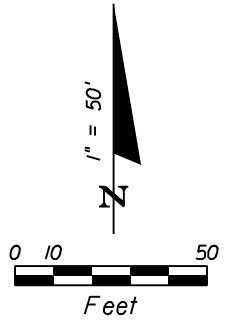
SHEET NO.
S-65

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PORTABLE TRAFFIC MONITORING SITE
STA. 3824+26 @ CONST. S.R. 400

PLAN NOTES AND INSTALLATION DETAILS FOR PORTABLE TRAFFIC MONITORING SITES

1. PORTABLE TRAFFIC MONITORING SITE (PTMS) TO BE MAINTAINED BY F.D.O.T. THE CONTRACTOR SHALL SUBMIT AT LEAST ONE COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
2. THE CONTRACTOR SHALL USE THE STANDARD INDEX I7900 FOR INSTALLATION OF TRAFFIC MONITORING SITES.
3. THE CONTRACTOR SHALL NOTIFY Mr. BRIAN HUNTER IN THE DISTRICT PLANNING OFFICE AT (813) 975-6413 AT LEAST SEVEN WORKING DAYS PRIOR TO INSTALLATION OF TRAFFIC MONITORING SITES.
4. PULL BOXES SHALL BE CONCRETE WITH STEEL LOCKING LID AND SHALL BE LISTED IN THE DEPARTMENT'S APPROVED PRODUCT LIST.
5. VEHICLE SENSORS SHALL BE PLACED PERPENDICULAR TO THE LANES.
6. INDUCTIVE LOOP AND VEHICLE SENSOR WIRES SHALL BE LABELED BOTH IN THE PULL BOXES AND THE CABINET.
7. WHEN PLACING INDUCTIVE LOOPS AND VEHICLE SENSORS IN CONCRETE PAVEMENT, THEY SHALL NOT CROSS EXPANSION JOINTS. THE LOOPS AND THE SENSORS CAN BE STAGGERED ACROSS THE LANES TO AVOID CROSSING EXPANSION JOINTS.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

PB Americas, Inc.
 5405 West Cypress St. Suite 300
 Tampa, Florida 33607
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 EOR: BIJAN BEHZADI, P.E., No. 43868

(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**PORTABLE TRAFFIC
MONITORING SITE DETAILS**

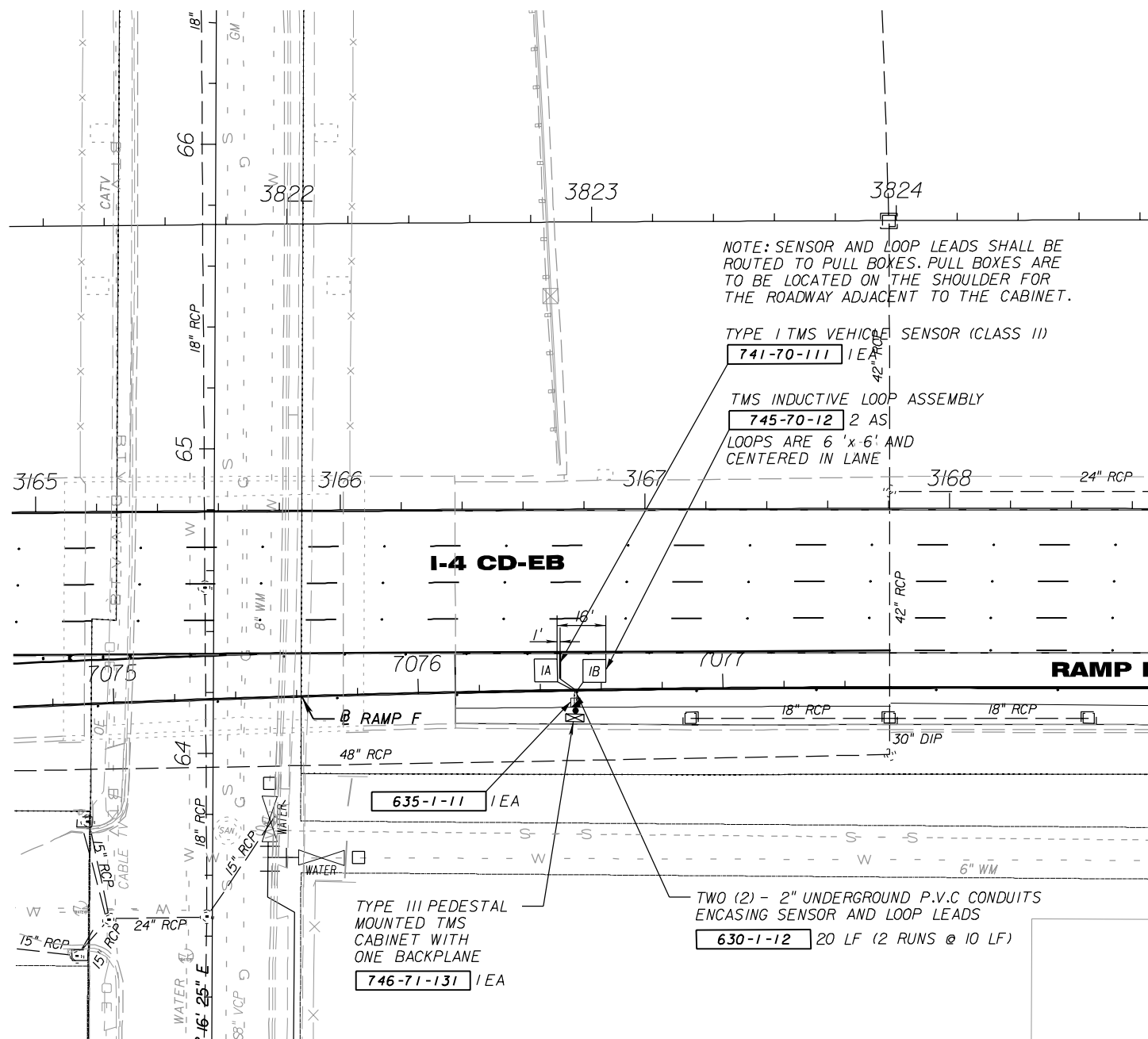
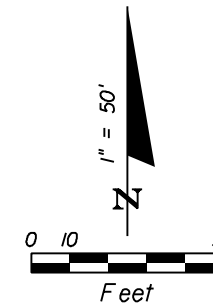
SHEET NO.
S-66

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PORTABLE TRAFFIC MONITORING SITE
STA. 3822+94 @ CONST. S.R. 400

PLAN NOTES AND INSTALLATION DETAILS FOR PORTABLE TRAFFIC MONITORING SITES

1. PORTABLE TRAFFIC MONITORING SITE (PTMS) TO BE MAINTAINED BY F.D.O.T. THE CONTRACTOR SHALL SUBMIT AT LEAST ONE COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
2. THE CONTRACTOR SHALL USE THE STANDARD INDEX I7900 FOR INSTALLATION OF TRAFFIC MONITORING SITES.
3. THE CONTRACTOR SHALL NOTIFY Mr. BRIAN HUNTER IN THE DISTRICT PLANNING OFFICE AT (813) 975-6413 AT LEAST SEVEN WORKING DAYS PRIOR TO INSTALLATION OF TRAFFIC MONITORING SITES.
4. PULL BOXES SHALL BE CONCRETE WITH STEEL LOCKING LID AND SHALL BE LISTED IN THE DEPARTMENT'S APPROVED PRODUCT LIST.
5. VEHICLE SENSORS SHALL BE PLACED PERPENDICULAR TO THE LANES.
6. INDUCTIVE LOOP AND VEHICLE SENSOR WIRES SHALL BE LABELED BOTH IN THE PULL BOXES AND THE CABINET.
7. WHEN PLACING INDUCTIVE LOOPS AND VEHICLE SENSORS IN CONCRETE PAVEMENT, THEY SHALL NOT CROSS EXPANSION JOINTS. THE LOOPS AND THE SENSORS CAN BE STAGGERED ACROSS THE LANES TO AVOID CROSSING EXPANSION JOINTS.



REVISIONS					
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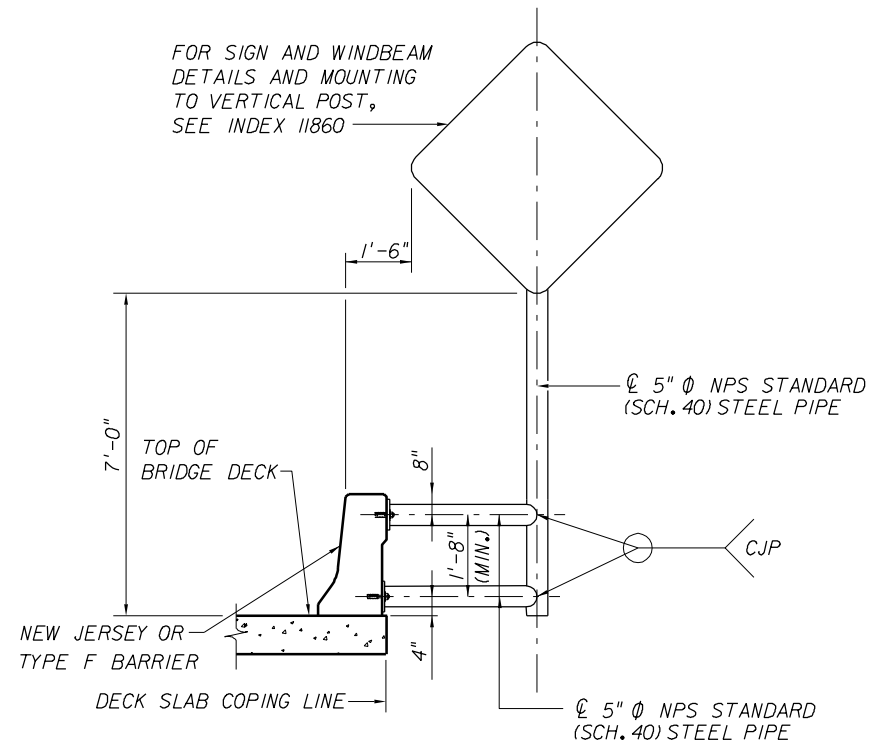
PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
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(CORE)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

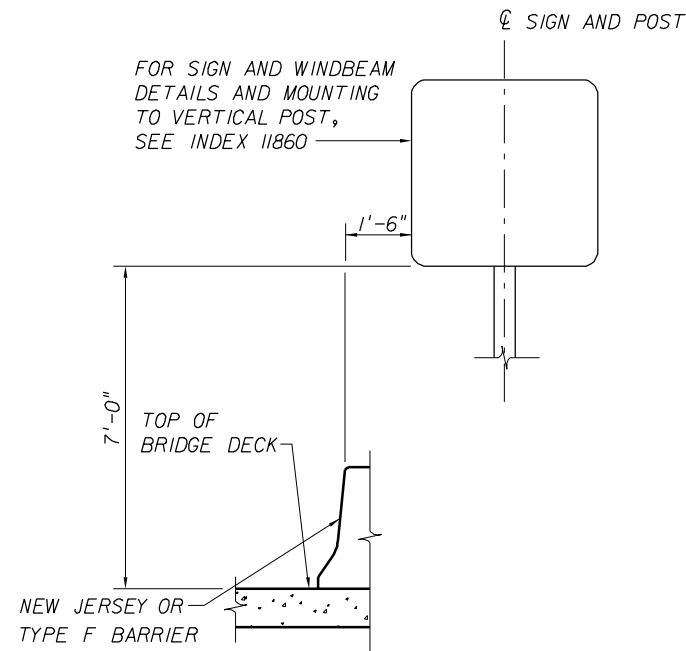
**PORTABLE TRAFFIC
MONITORING SITE DETAILS**

SHEET NO.
S-67

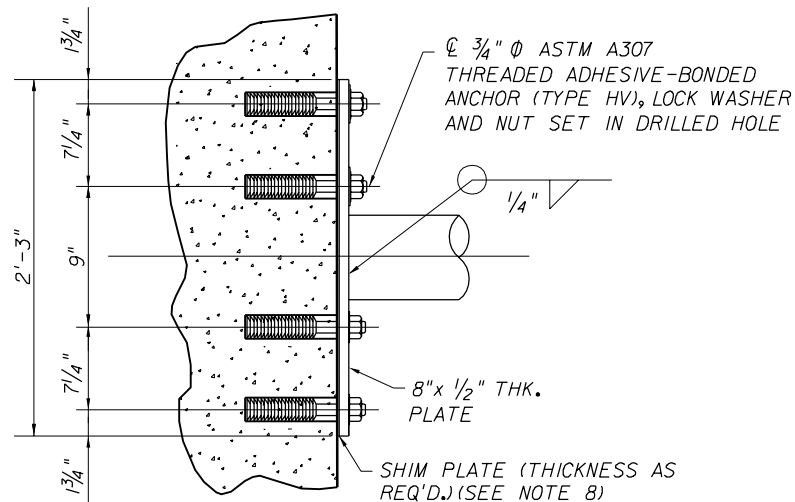
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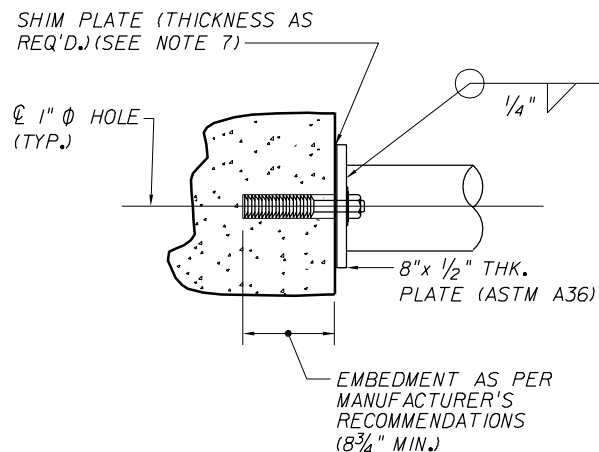
**PARTIAL SECTION AT BRIDGE
JERSEY OR TYPE F BARRIER**
(DIAMOND SHAPED SIGN SHOWN)



**PARTIAL SECTION AT BRIDGE
JERSEY OR TYPE F BARRIER**
(RECTANGLE SHAPED SIGN SHOWN)



PLAN



ELEVATION

DETAIL OF ATTACHMENT TO BARRIER

STATION	LOCATION	NUMBER REQUIRED	SIGN TYPE	F-SHAPE BARRIER
-	RAMP B	14	W1-8R (30" x 48")	42" (BRIDGE)
-	RAMP C	26	W1-8L (30" x 48")	42" (BRIDGE)
4021+81 4026+50	LT & RT	2	W4-2R (48" x 48")	42" (BRIDGE)
4032+00	RAMP C, LT	1	W1-2AL (48" x 48")	42" (BRIDGE)
4029+50	LT & RT	2	W9-1R (48" x 48") W16-2A (30" x 18")	42" (BRIDGE)

NOTES:

- DESIGN WIND SPEED = 130 MPH.
- THE STEEL PIPE MATERIAL SHALL CONFORM TO ASTM A53, TYPE S, GRADE B (F_y=35 KSI).
- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS PRIOR TO THE START OF ANY WORK.
- THE CONTRACTOR SHALL CLEAR THE REINFORCEMENT IN THE EXISTING SUPERSTRUCTURE ELEMENTS DURING THE INSTALLATION OF THE 3/4" TYPE HV ADHESIVE-BONDED ANCHORS. IF REINFORCEMENT IS ENCOUNTERED DURING THE PROCESS OF DRILLING, THE CONTRACTOR SHALL STOP DRILLING, CLEAN AND SEAL THE HOLE WITH AN APPROVED EPOXY.
- ALL STEEL SHAPES, PLATES, ASTM A307 BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.
- FOR DETAILS, MATERIAL SPECIFICATIONS & GALVANIZING, REFER TO FDOT DESIGN STANDARDS INDEX NO. 11200 AND INDEX NO. 11860.
- SHIM AS REQUIRED TO MAINTAIN THE SIGN SUPPORT PIPE VERTICAL.
- THE CENTERLINE OF SIGN STRUCTURE SHALL BE LOCATED A MINIMUM OF 5 FEET FROM ANY DECK EXPANSION JOINT OR OPEN BARRIER JOINT.

REVISIONS						(CORE)			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	BARRIER MOUNTED SIGN DETAILS						
SR 400	HILLSBOROUGH	258415-2-52-01							S-68



PB Americas, Inc.
5405 West Cypress St. Suite 300
Tampa, Florida 33607
(813) 289-5300
Cert. of Auth. No. 01462
EOR: ANTONIO L. LEDESMA, P.E., No. 60149

GENERAL NOTES

1. General Specifications: Florida Department of Transportation Standard Specifications for Road and Bridge Construction (2007 Edition) and Supplements thereto.
2. Design Specifications: American Association of State Highway and Transportation Officials (AASHTO) Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (2001) with 2002, 2003, and 2006 Interim
3. Design is in accordance with the requirements of Section 29.1 of the FDOT Plans Preparation Manual.
4. The Design Wind Speed is 130 MPH with a 3-Second Gust Factor.
5. Sign Structure Materials shall be as follows:
 Uprights & Arms = API-5L-X52 (52 ksi yield)
 Handhole Frame = ASTM A709, Grade 36
 Handhole Cover = ASTM A1011, Grade 50, 55, 60, or 65 ksi
 Steel Plates = ASTM A709, Grade 36
 W-Beams = ASTM A709, Grade 50
 Weld Metal = E70XX
 Bolts (except Anchor Bolts) = ASTM A325, Type I
 Anchor Bolts = ASTM F1554, Grade 55
 Nuts for Anchor Bolts = ASTM A563, Grade A Heavy Hex Double Nuts
 Washers for Anchor Bolts = ASTM F436, Type I
 Stainless Steel Screws = AISI Type 316
 Aluminum Nut Cover = ASTM B26 (356-T6)
 Bolted Splice Connection: Slip Critical Connection with Class C contact surface
6. Reinforcing Steel shall be ASTM A615, Grade 60
7. Drilled Shaft Concrete shall be Class IV (Drilled Shaft) with a minimum 28-day compressive strength of 4 ksi for all environmental classifications. Column Concrete shall be Class IV with a minimum 28-day compressive strength of 5.5 ksi for all environmental classifications.
8. Grout shall have a minimum 28-day compressive strength of 5 ksi and shall meet the requirements of Section 934 of the Specifications, using procedures outlined in Section 649-6.
9. Weld details and welding operations shall be in accordance with the current edition of the ANSI/AWS D1.1 Structural Welding Code (steel). All complete joint penetration welds shall be radiographically or ultrasonically inspected for 100% of their length. The non-destructive testing shall be performed in accordance with AWS D1.1 Section 9 (Dynamically Loaded Structures). All welds are considered tension welds. All welding procedures shall be submitted for approval. The testing shall be performed by the FDOT's commercial inspection agency.
10. All Steel items shall be galvanized as follows:
 All Nuts, Bolts and Washers = ASTM F2329.
 All other Steel items (including Uprights & Arms) = ASTM A123.
 Water quenching or treatment with chromate conversion coatings are not permitted for galvanized items that are to be painted.
11. Alternate Designs for these Structures are not allowed.
12. Except for Anchor Bolts, all bolt hole diameters shall be equal to the bolt diameter plus 1/16", prior to galvanizing. Hole diameters for Anchor Bolts shall not exceed the bolt diameter plus 1/2".
13. Sign Panels attached to the structure shall be located as shown in the Signing Plans. Wire access holes shall not exceed 3/4" in diameter. Sign panels shall be aluminum.
14. Do not erect Pole until foundation concrete has cured for a minimum of 7 days and concrete has achieved 75% of its minimum 28-day strength.
15. The Structures must be assembled after galvanizing and prior to painting and shipment to the site to verify correct orientation and fit up. It may be disassembled for shipping.
16. Shop Drawings for this Structure are required and fabrication shall not begin until these Shop Drawings are approved. Shop Drawings shall include the Contractor's field verification of all Upright Heights and foundation elevations to ensure minimum vertical clearances. Shop Drawings shall also provide the anchor bolt orientation with respect to the centerline of the arm and the direction of traffic. Additionally Contractor shall submit welding procedures. Upright and arm shop splices are not allowed.
17. The Bolted Splice connections shall be completed (A325 Bolts tensioned per the Specifications) in the no-load condition.
18. The Structure, Sign Panel Backs and Sign Panel Attachment Hardware shall be Painted in accordance with the Sign Painting Notes located in the General Notes on Sheet S-5. All attachments to the structure (e.g.: electrical conduit, etc.) shall be painted to match the final color of the Structure. The mating surfaces of the Bolted Splice shall not be painted. The Sign Structures shall be painted (after galvanizing) with either a powder coat paint system as described in the 2007 edition of Standard Specification 649-4.4 or an epoxy primer and an aliphatic polyurethane topcoat in accordance with FDOT DCE Memorandum No. 06-08.
19. The upright curvature shall be accomplished by induction bending. The Fabricator performing the induction bending shall have a minimum of (5) years experience. The Fabricator's proposed induction bending plan shall be submitted for approval. This plan shall describe the equipment, methods and procedures to be used to induction bend the pipe. The plan shall include the Fabricator's means for ensuring that the physical and mechanical properties of the bent sections are not adversely affected by the induction bending process. Fabrication shall not begin until the procedure is approved by the Engineer.
20. All members of the Sign Structure are considered to be tension members and steel greater than 1/2" thickness shall meet the AASHTO Specifications for notch toughness requirements.
21. All dimensions are in feet or inches, unless noted otherwise.
22. Payment for any incidental items incurred in furnishing and installing the Sign Structures shall be included in the pay item for providing the Complete Sign Structure.
23. Prior to erection, the as-built location of the anchor bolts shall be surveyed and this information reported to the engineer.
24. The Contractor may provide higher strength pipes than what is specified in the design table of the contract plans at no additional cost to the owner if required to meet domestic pipe size availability.

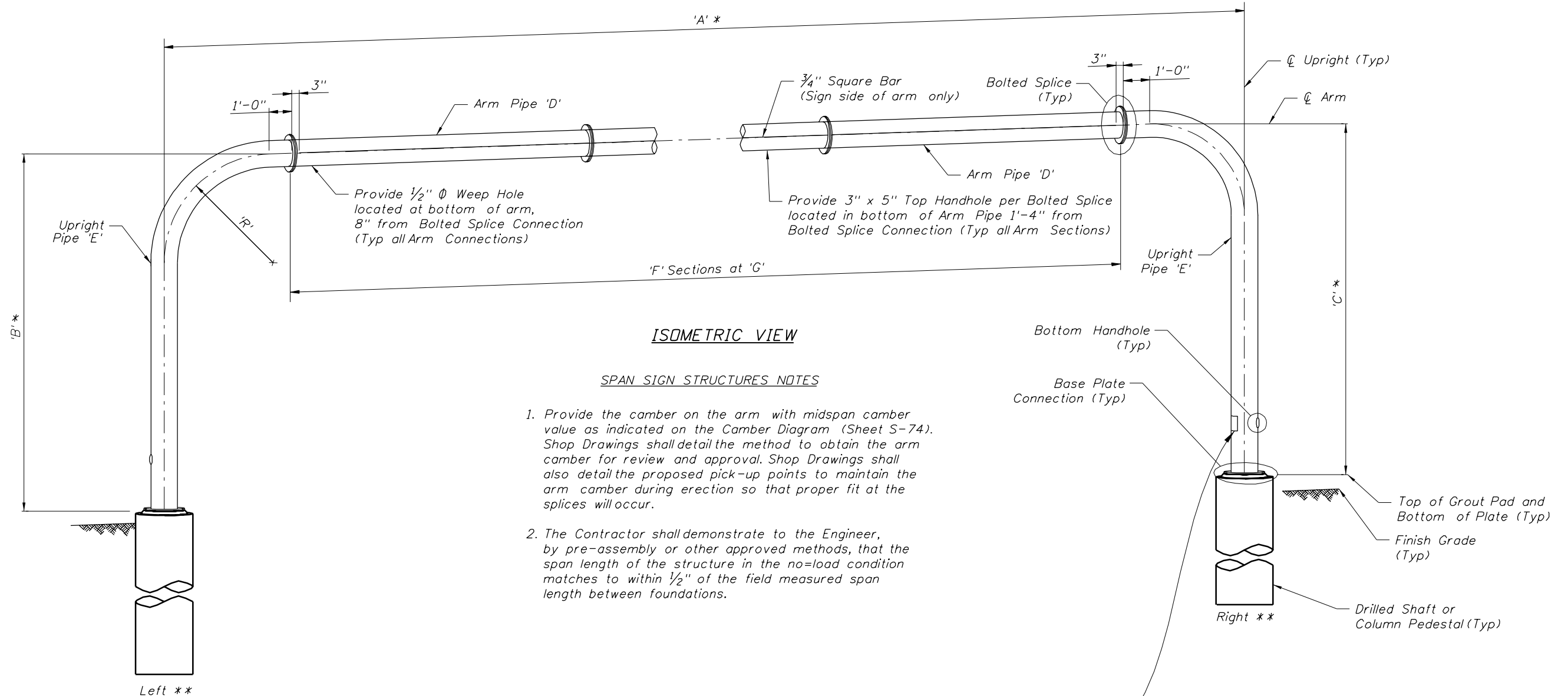
REVISIONS						CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ENGINEER OF RECORD:			CANTILEVER AND SPAN SIGN STRUCTURES GENERAL NOTES	
						DRAWN BY: MO 3/09			FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. SR 400 COUNTY HILLSBOROUGH FINANCIAL PROJECT ID 258415-2-52-01 PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE SHEET NO. S-69	
						CHECKED BY: ALL 3/09				
						DESIGNED BY: JK 3/09				
						CHECKED BY: ALL 3/09				
						APPROVED BY: ANTONIO LEDESMA				
						ENGINEER OF RECORD: PB Americas, Inc. 5405 West Cypress Street, Suite 300 Tampa, Florida 33607 Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149				

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DRILLED SHAFT NOTES

1. DATA CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES, COORDINATE WITH THE ROADWAY PLANS, AND FIELD VERIFY UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION TO AVOID DAMAGE THERETO. THE ENGINEER SHALL BE CONTACTED FOR ANY MODIFICATIONS REQUIRED DUE TO CONFLICTS.
2. THE FOUNDATIONS FOR THE SIGN STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 455 OF THE FDOT'S SPECIFICATIONS EXCEPT THAT, NO PAYMENT FOR THE FOUNDATIONS SHALL BE MADE UNDER SECTION 455. THE COST OF PROVIDING THE FOUNDATION SHALL BE INCLUDED IN THE PAY ITEM FOR THE COMPLETED SIGN STRUCTURE.
3. THE FOUNDATION DESIGN IS BASED ON THE BORINGS AND SOIL DESIGN PARAMETERS SHOWN ON THE REPORT OF CORE BORING SHEETS.
4. TEMPORARY CASING OR SLURRY MAY BE REQUIRED DURING DRILLED SHAFT CONSTRUCTION. SLURRY AS DESCRIBED IN SPECIFICATION 455-15.8.1, WILL INCLUDE NATURAL MINERAL SLURRY, FORMED FROM WATER AND NATURAL MINERALS IN THE SHAFT EXCAVATION FOR PURPOSE OF THE TIME OF EXCAVATION. CONTRACTOR SHALL ANTICIPATE THE NEED FOR DESANDING EQUIPMENT IF THE SLURRY METHOD IS UTILIZED. THE COST OF TEMPORARY CASING SHALL BE INCLUDED IN THE COST OF THE COMPLETED SIGN STRUCTURE.
5. IF ANY SHAFT IS CONSTRUCTED USING THE PERMANENT CASING METHOD, THE SHAFT SHALL BE EXCAVATED TO A REVISED TIP ELEVATION APPROVED BY THE ENGINEER. NO COMPENSATION WILL BE PAID FOR PERMANENT CASING. ADDITIONAL SHAFT LENGTH AND EXCAVATION RESULTING FROM THE USE OF PERMANENT CASING SHALL BE INCLUDED IN THE COST OF THE COMPLETED SIGN STRUCTURE.
6. DURING INSTALLATION OF DRILLED SHAFTS HARD CHERT MAY BE ENCOUNTERED. SPECIAL TOOLS AND EQUIPMENT MAY BE REQUIRED AND SHALL BE ANTICIPATED.
7. BASED ON A REVIEW OF THE MAP POTENTIOMETRIC SURFACE OF THE UPPER FLORIDIAN AQUIFER SYSTEM , WEST-CENTRAL FLORIDA, MAY 2005 PUBLISHED BY USGS, THE POTENTRIOMETRIC LEVEL IN THE VICINITY OF THE PROJECT SITE IS APPROXIMATELY 10 TO 20 FEET, NGVD. THE CONTRACTOR'S EQUIPMENT SHALL BE CAPABLE OF HANDLING THIS POTENTIOMETRIC LEVEL.
8. LOCATIONS OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO EXCAVATION OF DRILLED SHAFTS.
9. FOR CONSTRUCTION OF DRILLED SHAFTS LOCATED 9 FEET OR LESS (CLEAR DISTANCE) FROM EXISTING MSE WALLS, OSCILLATION OR OTHER NON-VIBRATORY INSTALLATION AND REMOVAL OF STEEL CASING WILL BE REQUIRED. VIBRATION OF STEEL CASING IS PROHIBITED.
10. CONTAMINATED SOILS WILL BE ENCOUNTERED DURING EXCAVATION. FOR DISPOSAL OF CONTAMINATED MATERIAL DURING SHAFT EXCAVATION REFER TO THE ROADWAY GENERAL NOTES.

REVISIONS						CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ENGINEER OF RECORD:			PROJECT NAME:	
						FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 400 HILLSBOROUGH 258415-2-52-01			DRILLED SHAFT - GENERAL NOTES	
						ENGINEER OF RECORD: PB Americas, Inc. 5405 West Cypress Street, Suite 300 Tampa, Florida 33607 Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						APPROVED BY: ANTONIO LEDESMA			SHEET NO.: S-70	



ISOMETRIC VIEW

SPAN SIGN STRUCTURES NOTES

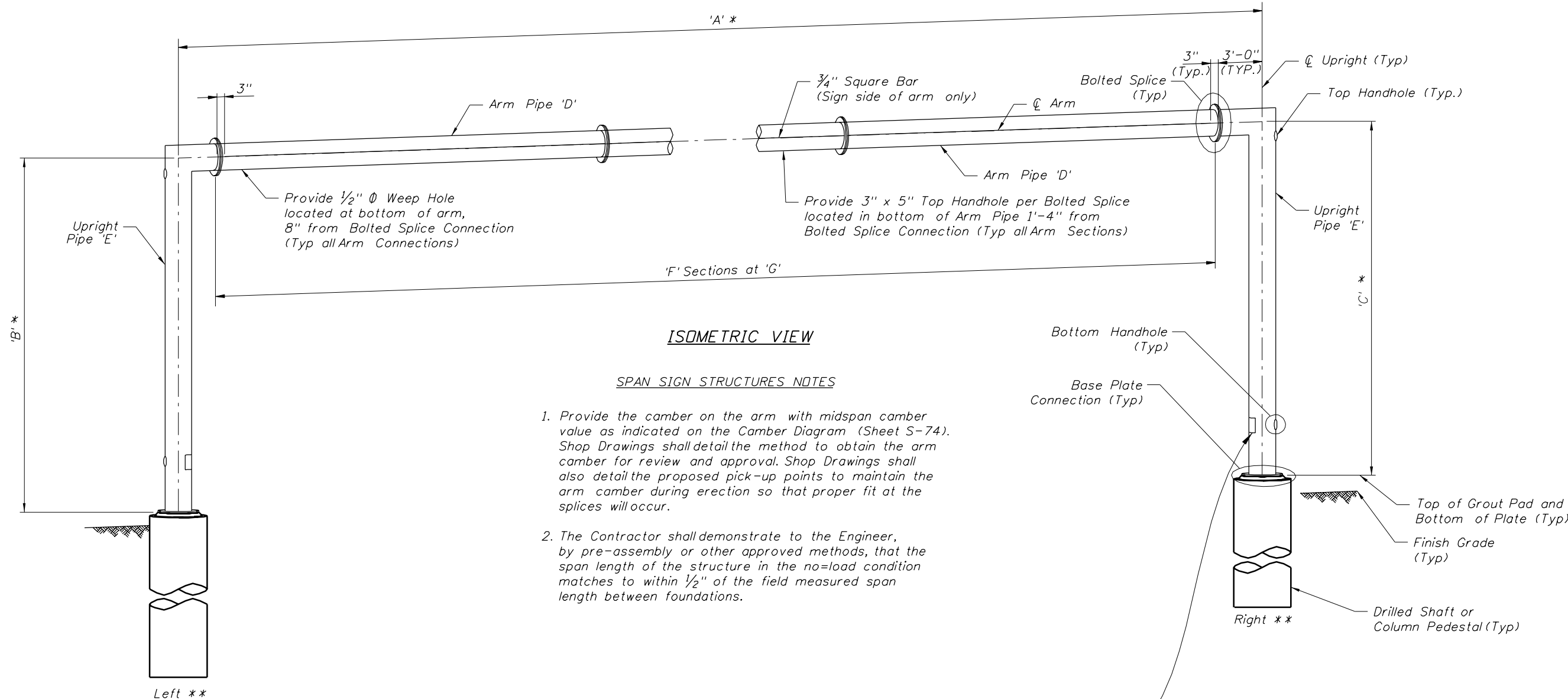
1. Provide the camber on the arm with midspan camber value as indicated on the Camber Diagram (Sheet S-74). Shop Drawings shall detail the method to obtain the arm camber for review and approval. Shop Drawings shall also detail the proposed pick-up points to maintain the arm camber during erection so that proper fit at the splices will occur.
2. The Contractor shall demonstrate to the Engineer, by pre-assembly or other approved methods, that the span length of the structure in the no-load condition matches to within 1/2" of the field measured span length between foundations.

Aluminum identification tag not to exceed 2" X 4". Secure to pole by 0.125" stainless steel rivets or screws. Fabricators to provide details for approval. Identification tag located on inside of pole visible from handhole, or on outside of pole, inside terminal compartment. Tag to be stamped with the following information:

- Financial Project I.D.
- Pole Base Diameter (in)
- Pole Wall Thickness (in)
- Arm Diameter at Pole (in)
- Arm Wall Thickness (in)
- Manufacturer's Name

* Contractor shall verify these dimensions prior to fabrication of arm and uprights.
 ** In reference to looking stations ahead.

REVISIONS						CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			SPAN SIGN STRUCTURES NOTES AND ISOMETRIC VIEW (1 OF 2)	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	
						SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
DRAWN BY: MD 3/09						ENGINEER OF RECORD: PB Americas, Inc.			SHEET NO.	
CHECKED BY: ALL 3/09						5405 West Cypress Street, Suite 300			S-71	
DESIGNED BY: JK 3/09						Tampa, Florida 33607				
CHECKED BY: ALL 3/09						Certificate of Authorization No. 00001462				
APPROVED BY: ANTONIO LEDESMA						Antonio L. Ledesma, P.E.#60149				



ISOMETRIC VIEW

SPAN SIGN STRUCTURES NOTES

1. Provide the camber on the arm with midspan camber value as indicated on the Camber Diagram (Sheet S-74). Shop Drawings shall detail the method to obtain the arm camber for review and approval. Shop Drawings shall also detail the proposed pick-up points to maintain the arm camber during erection so that proper fit at the splices will occur.
2. The Contractor shall demonstrate to the Engineer, by pre-assembly or other approved methods, that the span length of the structure in the no-load condition matches to within 1/2" of the field measured span length between foundations.

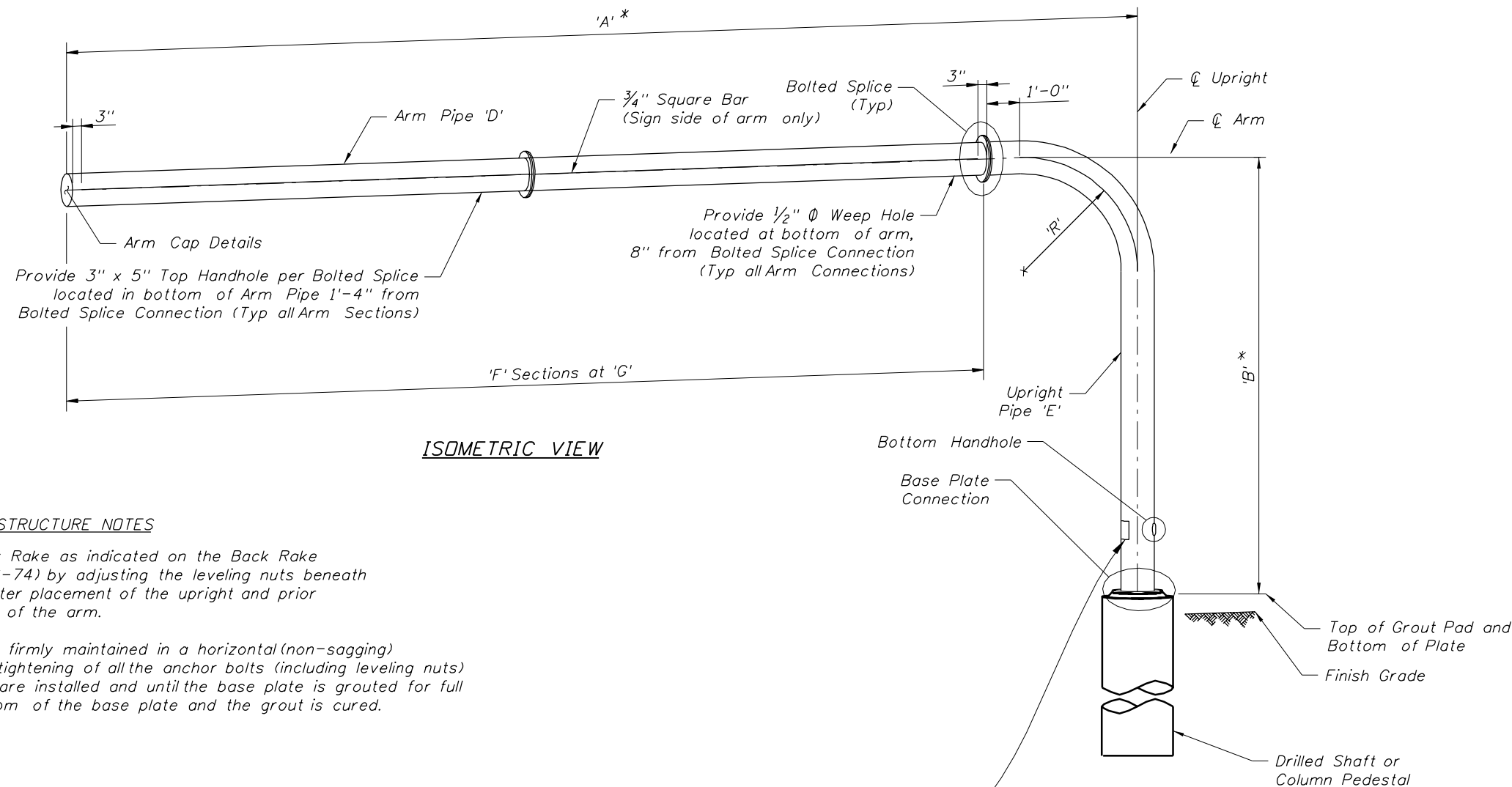
* Contractor shall verify these dimensions prior to fabrication of arm and uprights.
 ** In reference to looking stations ahead.

Aluminum identification tag not to exceed 2" X 4". Secure to pole by 0.125" stainless steel rivets or screws. Fabricators to provide details for approval. Identification tag located on inside of pole visible from handhole, or on outside of pole, inside terminal compartment. Tag to be stamped with the following information:

- Financial Project I.D.
- Pole Base Diameter (in)
- Pole Wall Thickness (in)
- Arm Diameter at Pole (in)
- Arm Wall Thickness (in)
- Manufacturer's Name

REVISIONS						CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			SPAN SIGN STRUCTURES NOTES AND ISOMETRIC VIEW (2 OF 2)	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	
						SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
DRAWN BY: MD 3/09						ENGINEER OF RECORD: PB Americas, Inc.			SHEET NO.	
CHECKED BY: ALL 3/09						5405 West Cypress Street, Suite 300			S-72	
DESIGNED BY: JK 3/09						Tampa, Florida 33607				
CHECKED BY: ALL 3/09						Certificate of Authorization No. 00001462				
APPROVED BY: ANTONIO LEDESMA						Antonio L. Ledesma, P.E.#60149				

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ISOMETRIC VIEW

CANTILEVER SIGN STRUCTURE NOTES

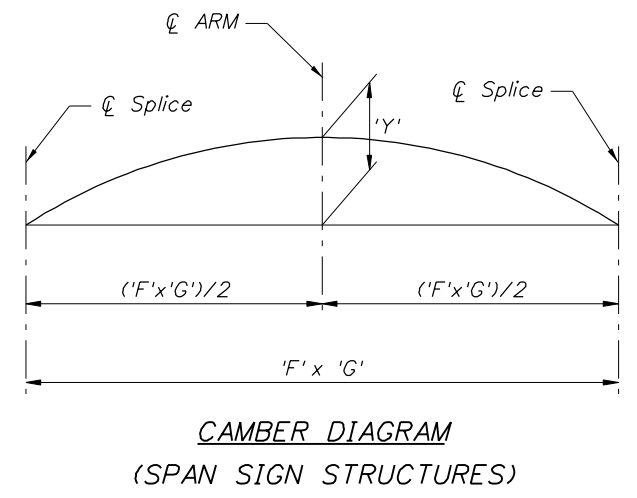
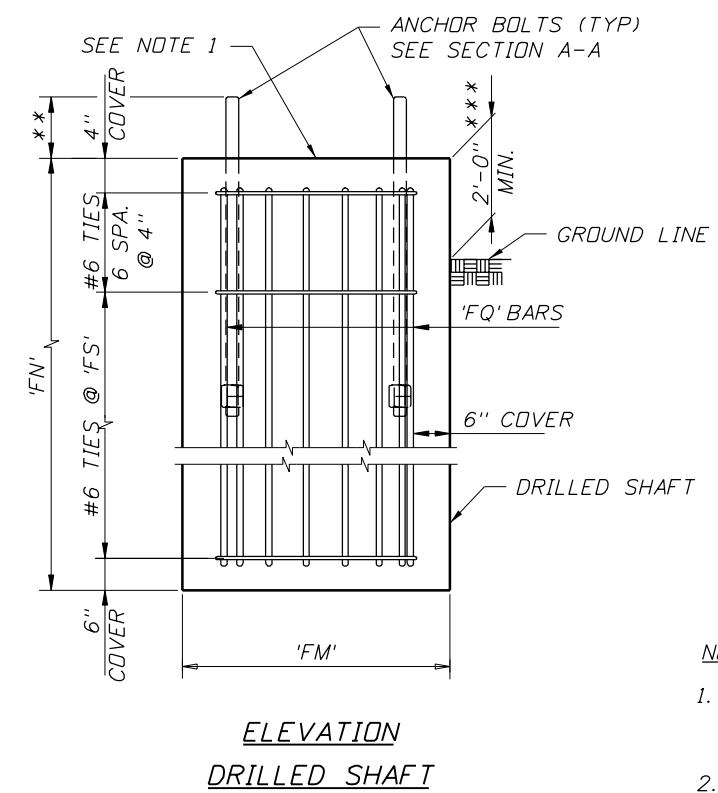
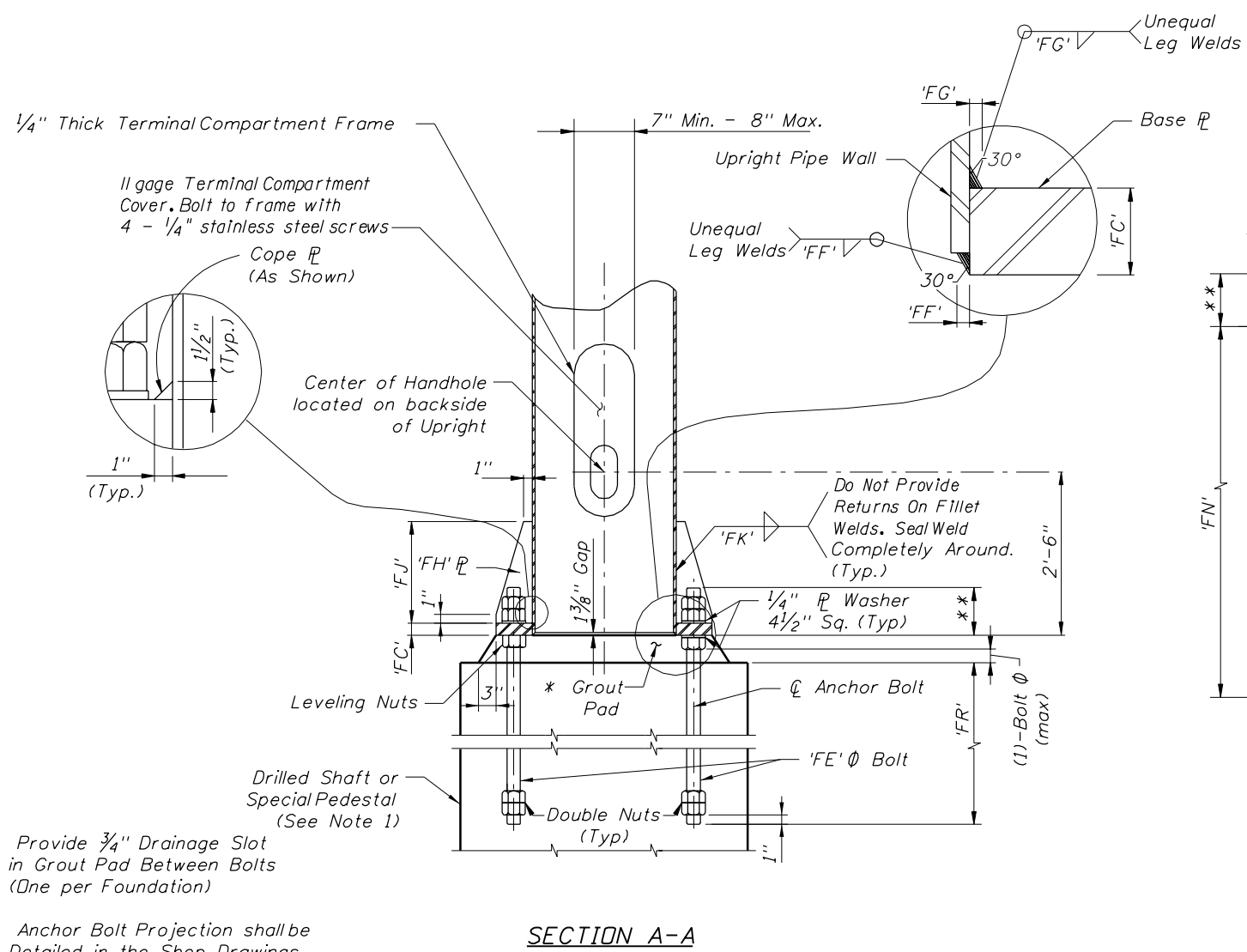
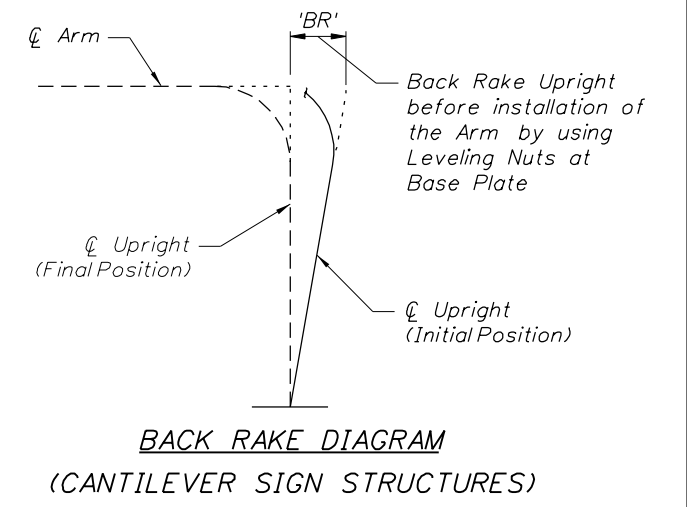
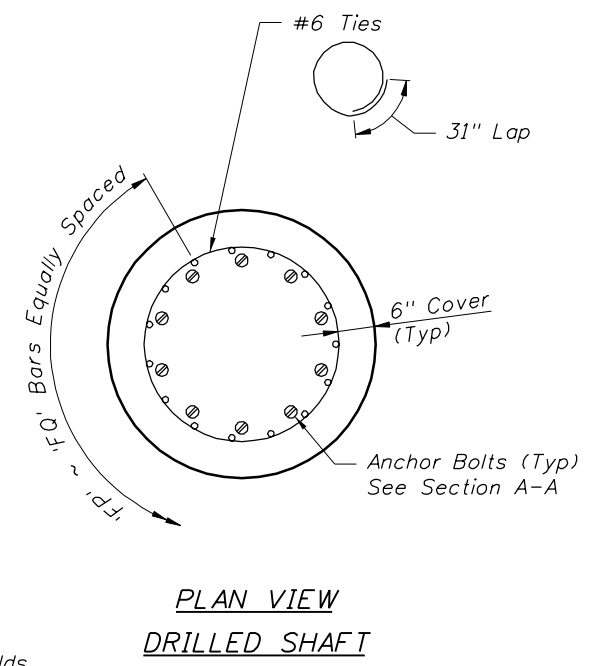
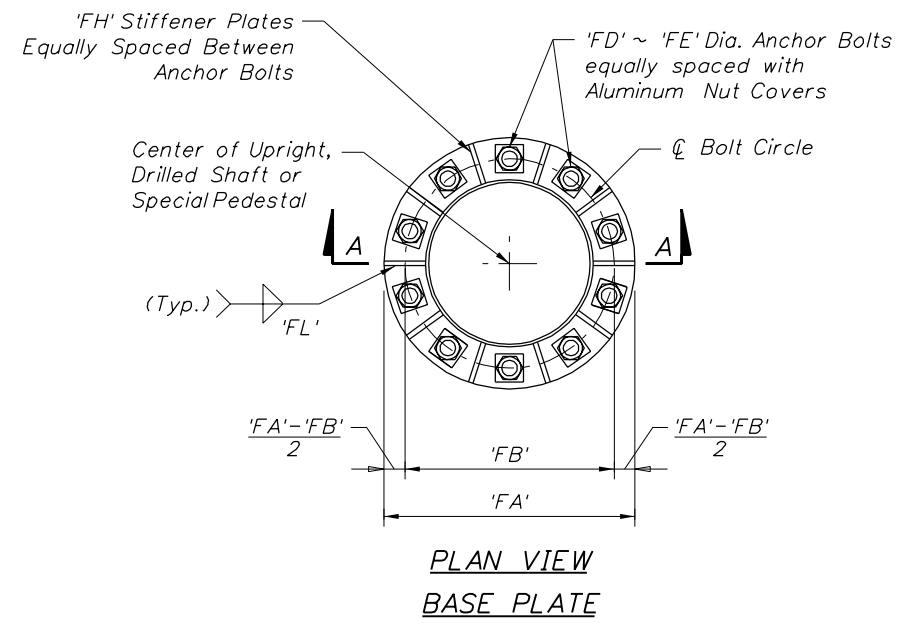
1. Provide the Back Rake as indicated on the Back Rake Diagram (Sheet S-74) by adjusting the leveling nuts beneath the base plate after placement of the upright and prior to the installation of the arm.
2. The arm shall be firmly maintained in a horizontal (non-sagging) position by snug tightening of all the anchor bolts (including leveling nuts) after sign panels are installed and until the base plate is grouted for full contact with bottom of the base plate and the grout is cured.

Aluminum identification tag not to exceed 2" X 4". Secure to pole by 0.125" stainless steel rivets or screws. Fabricators to provide details for approval. Identification tag located on inside of pole visible from handhole, or on outside of pole, inside terminal compartment. Tag to be stamped with the following information.:

- Financial Project I.D.
- Pole Base Diameter (in)
- Pole Wall Thickness (in)
- Arm Diameter at Pole (in)
- Arm Wall Thickness (in)
- Manufacturer's Name

* Contractor shall verify these dimensions prior to fabrication of arm and uprights.

REVISIONS						CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			CANTILEVER SIGN STRUCTURES NOTES AND ISOMETRIC VIEW	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	
						SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
DRAWN BY: MD 3/09						ENGINEER OF RECORD:			SHEET NO.:	
CHECKED BY: ALL 3/09						PB Americas, Inc.			S-73	
DESIGNED BY: JK 3/09						5405 West Cypress Street, Suite 300				
CHECKED BY: ALL 3/09						Tampa, Florida 33607				
APPROVED BY: ANTONIO LEDESMA						Certificate of Authorization No. 00001462				
						Antonio L. Ledesma, P.E.#60149				



* Provide 3/4" Drainage Slot in Grout Pad Between Bolts (One per Foundation)

** Anchor Bolt Projection shall be Detailed in the Shop Drawings by the Fabricator

NOTE:

1. See "SPECIAL PEDESTAL DETAILS" Sheets S-83 & S-84 for Sign Structures 10S690, 10S693, 10S694, 10S695, 10S699, 10S741 & 10S745.

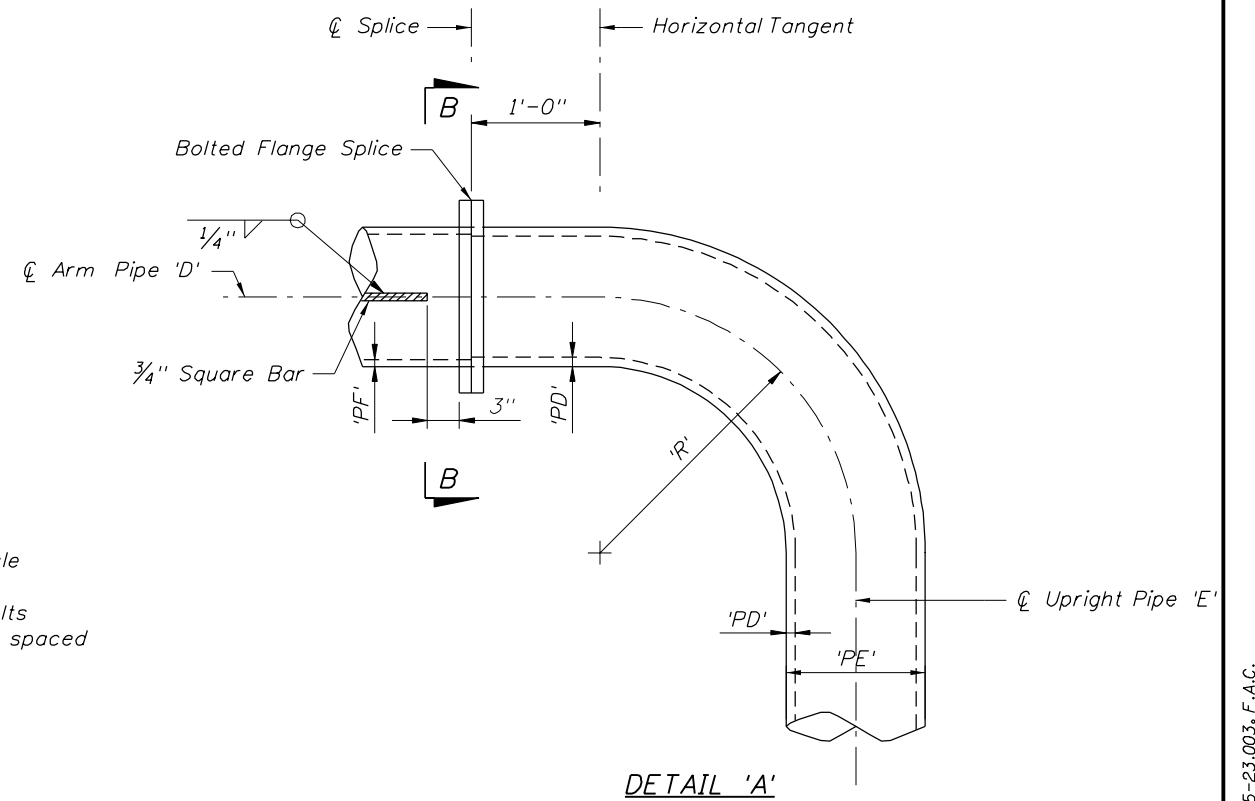
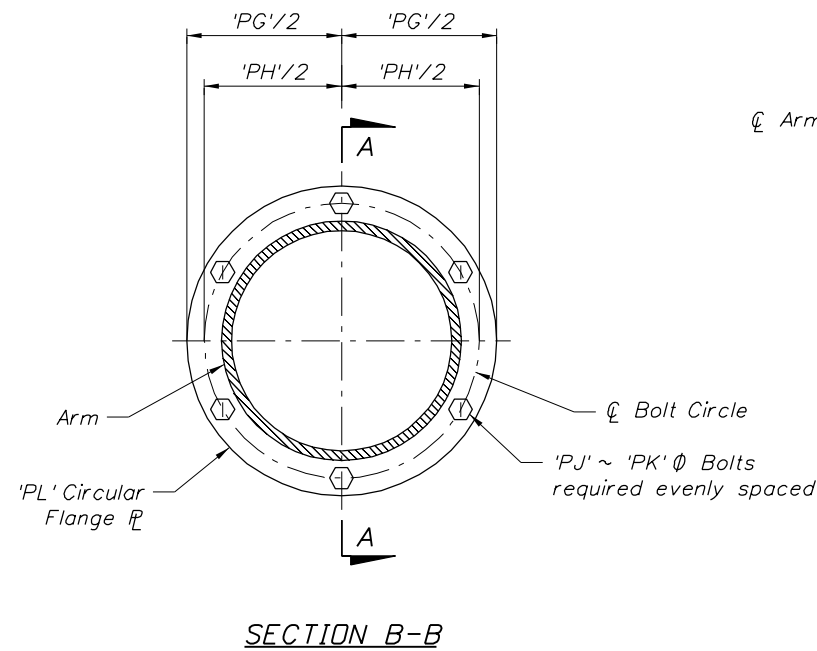
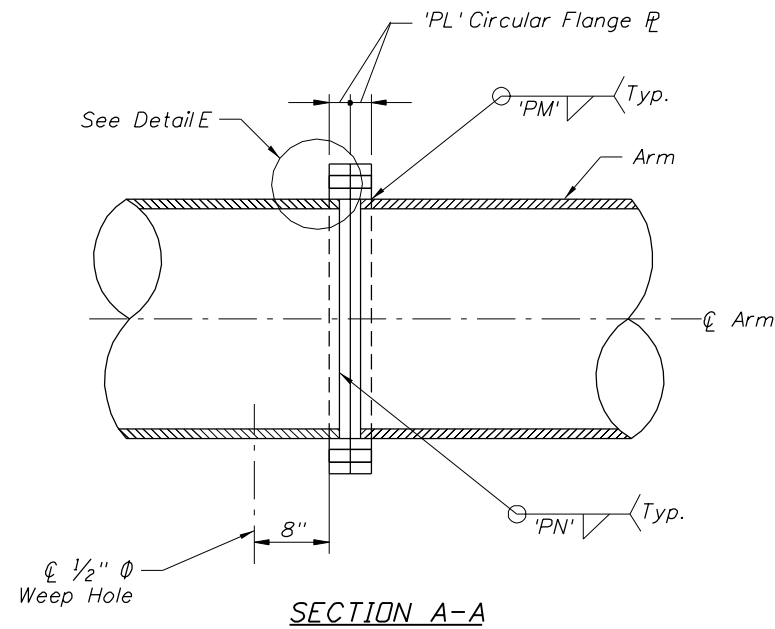
2. Provide wire entry conduit as required in drilled shaft.

*** Only Applicable Where the Upright is Mounted Directly to the Drilled Shaft.

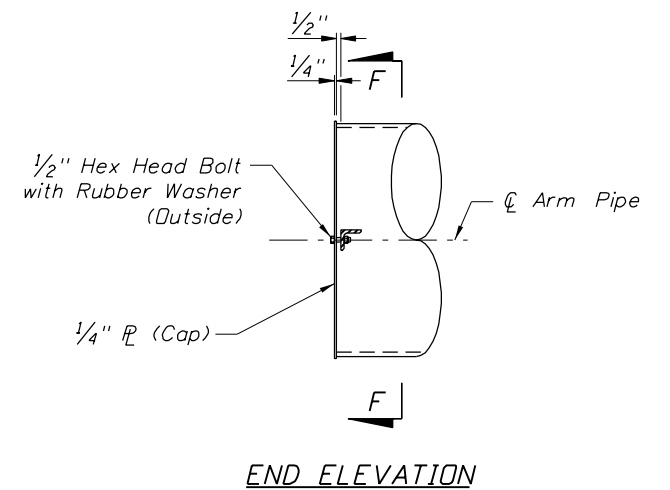
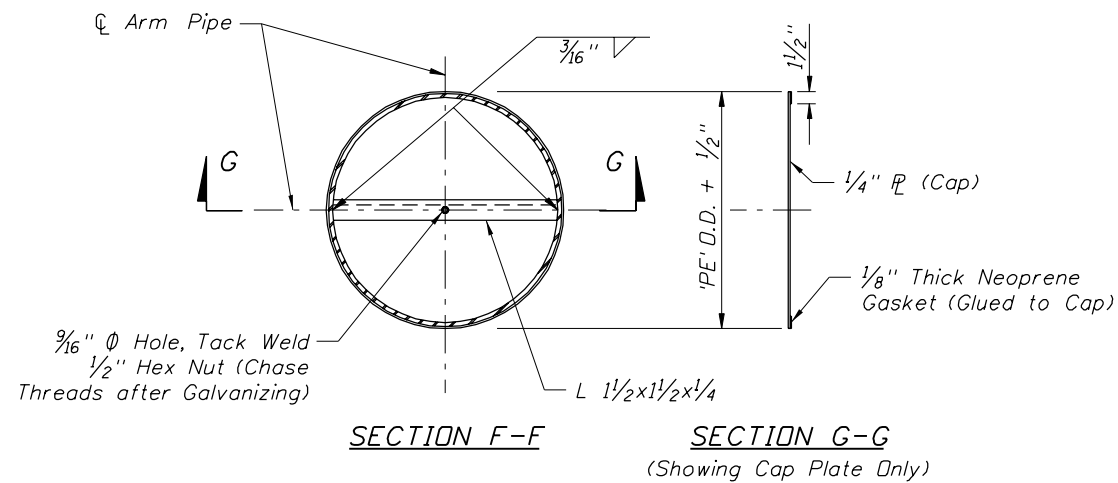
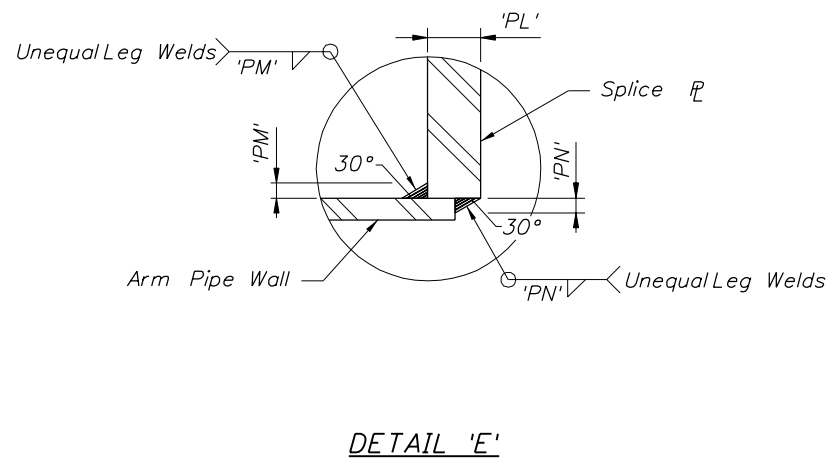
REVISIONS						CORE			SHEET TITLE		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			CANTILEVER AND SPAN SIGN STRUCTURES DETAILS (1 OF 3)		
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME		
						SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		
									SHEET NO.		
									S-74		

ENGINEER OF RECORD:
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Certificate of Authorization No. 00001462
Antonio L. Ledesma, P.E.#60149

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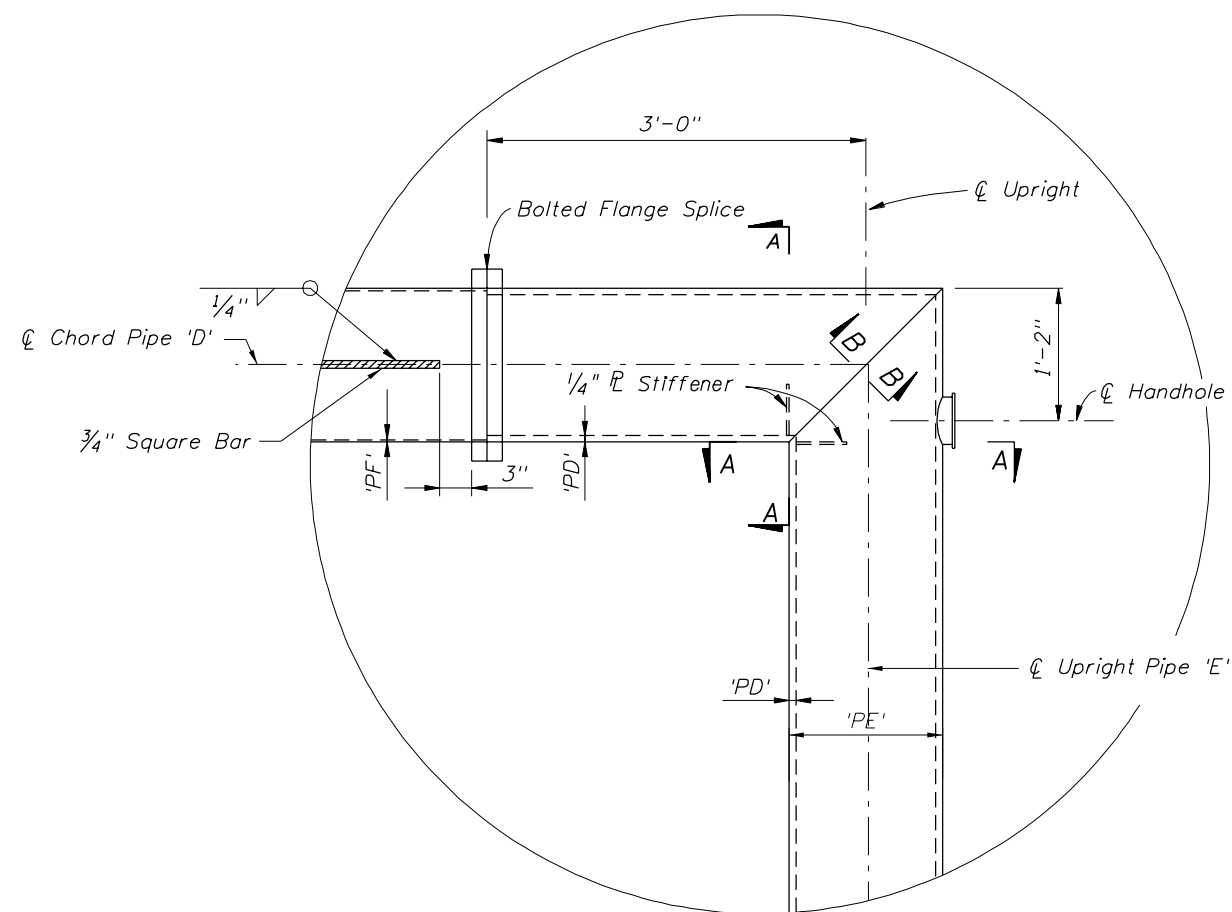
BOLTED FIELD SPLICE DETAILS



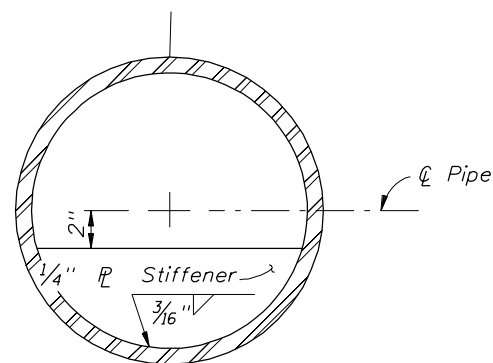
ARM CAP DETAILS (CANTILEVER)

REVISIONS						CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			CANTILEVER AND SPAN SIGN STRUCTURES DETAILS (2 OF 3)	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	
						SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
DRAWN BY: MD 3/09 CHECKED BY: ALL 3/09 DESIGNED BY: JK 3/09 CHECKED BY: ALL 3/09 APPROVED BY: ANTONIO LEDESMA						ENGINEER OF RECORD: PB Americas, Inc. 5405 West Cypress Street, Suite 300 Tampa, Florida 33607 Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			SHEET NO.	
									S-75	

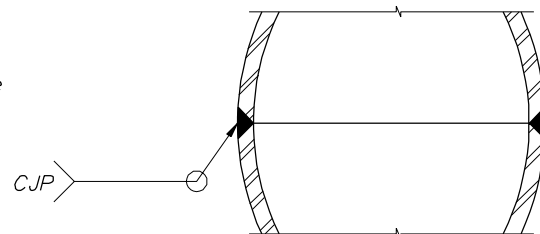
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MITERED JOINT DETAIL



SECTION A-A



SECTION B-B

REVISIONS						ENGINEER OF RECORD:			CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			CANTILEVER AND SPAN SIGN STRUCTURES DETAILS (3 OF 3)	
						CHECKED BY	MD	3/09	5405 West Cypress Street, Suite 300 Tampa, Florida 33607			ROAD NO.	SHEET NO.
						DESIGNED BY	ALL	3/09	Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			COUNTY	
						CHECKED BY	JK	3/09	SR 400			FINANCIAL PROJECT ID	
						CHECKED BY	ALL	3/09	HILLSBOROUGH			PROJECT NAME:	
						APPROVED BY	ANTONIO LEDESMA		258415-2-52-01			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
												S-76	

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SPAN SIGN STRUCTURES: TABLE OF VARIABLES *																		
Structure Number	Reference Baseline	Station	DIMENSIONS			MEMBER SIZES		ARM SECTIONS		R	Y	ARM FLANGE SPLICE DATA **						
			A	B	C	D	E	F	G			PG	PH	PJ	PK	PL	PM	PN
			Arm Span (ft)	Left Upright Height (ft)	Right Upright Height (ft)	Arm 'PE' x 'PF' (in)	Left & Right Upright 'PE' x 'PD' (in)	No. of Sections --	Section Lengths (ft)			Upright Radius (ft)	Arm Camber (in)	Splice Plate Outside Diameter (in)	Bolt Circle Diameter (in)	No. of Bolts --	Bolt Diameter (in)	Splice Plate Thickness (in)
10S690	SR 400	3767+00	88'-0"	29'-9"	29'-9"	24 Ø X 0.688	24 Ø X 0.968	2	31'-0"	12	1 ¹³ / ₁₆ "	36	30	14	1 ¹ / ₂ "	2 ³ / ₄ "	5 ⁵ / ₈ "	5 ⁵ / ₈ "
10S695	CONNECTOR	10034+00	54'-0"	24'-7"	24'-7"	24 Ø X 0.688	24 Ø X 0.968	2	24'-0"	0	1 ³ / ₁₆ "	33	28.5	10	1 ¹ / ₈ "	1 ³ / ₈ "	5 ⁵ / ₁₆ "	5 ⁵ / ₁₆ "
10S699	SR 400	3840+00	88'-6"	30'-9"	28'-9"	24 Ø X 0.688	24 Ø X 0.968	2	31'-3"	12	1 ¹⁵ / ₁₆ "	36	30	16	1 ¹ / ₂ "	2 ⁷ / ₈ "	5 ⁵ / ₈ "	1 ¹ / ₁₆ "
10S745	I-4 CD EB	3158+40	118'-0"	30'-0"	28'-0"	24 Ø X 0.688	24 Ø X 0.968	3	30'-8"	12	3 ¹ / ₂ "	36	30	14	1 ¹ / ₂ "	2 ⁵ / ₈ "	7 ¹ / ₁₆ "	5 ⁵ / ₈ "

SPAN SIGN STRUCTURES: TABLE OF VARIABLES *											
Structure Number	BASE PLATE DATA							STIFFENER PLATE DATA			
	FA	FB	FC	FD	FE	FF	FG	FH	FJ	FK	FL
	Base Plate Outside Diameter (in)	Anchor Bolt Circle Diameter (in)	Base Plate Thickness (in)	No. of Anchor Bolts --	Anchor Bolt Diameter (in)	Base Plate Inside Weld (in)	Base Plate Outside Weld (in)	Stiffener Plate Thickness (in)	Stiffener Plate Height (in)	Stiffener Plate Weld To Upright (in)	Stiffener Plate Weld To Base Plate (in)
10S690	42	33	4"	16	2 ¹ / ₄ "	3 ⁴ / ₄ "	1 ¹ / ₂ "	1 ³ / ₁₆ "	18	3 ⁸ / ₈ "	5 ⁵ / ₁₆ "
10S695	40	32	2 ⁷ / ₈ "	12	2"	9 ¹ / ₁₆ "	1 ¹ / ₂ "	1 ³ / ₁₆ "	16	3 ⁸ / ₈ "	5 ⁵ / ₁₆ "
10S699	42	33	4 ¹ / ₄ "	16	2 ¹ / ₄ "	3 ⁴ / ₄ "	1 ¹ / ₂ "	1 ⁵ / ₁₆ "	18	7 ¹ / ₁₆ "	5 ⁵ / ₁₆ "
10S745	42	33	3 ⁵ / ₈ "	16	2 ¹ / ₄ "	3 ⁴ / ₄ "	1 ¹ / ₂ "	1 ¹ / ₁₆ "	18	5 ⁵ / ₁₆ "	5 ⁵ / ₁₆ "

SPAN SIGN STRUCTURES: TABLE OF VARIABLES *											
Structure Number	DRILLED SHAFT DATA										
	FM	FN		FP	FQ	FR	FS	LEFT UPRIGHT		RIGHT UPRIGHT	
	Drilled Shaft Diameter (ft)	Left Drilled Shaft Length (ft)	Right Drilled Shaft Length (ft)	No. of Bars --	Bar Size --	Anchor Bolt Embedment (ft)	Tie Spacing (in)	Offset to C of Drilled Shaft from Baseline (ft)	Estimated Top of Drilled Shaft Elevaton (ft)	Offset to C of Drilled Shaft from Baseline (ft)	Estimated Top of Drilled Shaft Elevaton (ft)
10S690	5.00	37	27	22	11	7.25	8	31.0' Rt.	65.60	119.0' Rt.	65.60
10S695	6.00	21	24	28	11	5.00	12	131.0' Lt.	15.00	77.0' Lt.	15.00
10S699	5.50	44	33	27	11	6.88	9	193.5' Lt.	25.50	105.0' Lt.	65.60
10S745	5.00	37	30	22	11	6.17	7	38.5' Lt.	49.27	79.5' Rt.	23.27

- * Quantities are shown for one upright and base assembly. Two of each are required per structure.
- ** Quantities are shown for one arm splice connection. Number of Arm Splice Connections = 'F' plus one.
- *** See ITS plans for structural details of Sign Structures 10S692, 10S697 and 10S700.

REVISIONS						ENGINEER OF RECORD:			CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			SPAN SIGN STRUCTURES TABLE OF VARIABLES	
						CHECKED BY	MD	3/09	5405 West Cypress Street, Suite 300 Tampa, Florida 33607			PROJECT NAME:	
						DESIGNED BY	ALL	3/09	Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			SR 400 HILLSBOROUGH 258415-2-52-01	
						CHECKED BY	JK	3/09	ROAD NO. COUNTY FINANCIAL PROJECT ID			I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						APPROVED BY	ANTONIO LEDESMA		SR 400 HILLSBOROUGH 258415-2-52-01			SHEET NO. S-77	

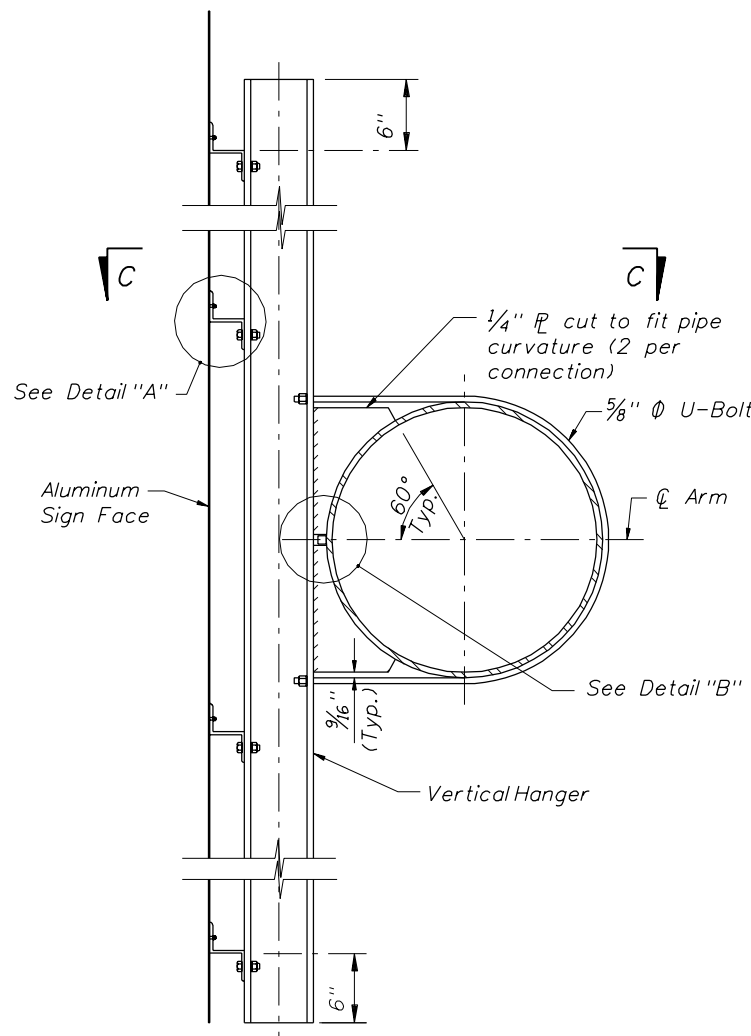
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

CANTILEVER SIGN STRUCTURES: TABLE OF VARIABLES																	
Structure Number	Reference Baseline	Station	DIMENSIONS		MEMBER SIZES		ARM SECTIONS		R	BR	ARM FLANGE SPLICE DATA **						
			A	B	D	E	F	G			PG	PH	PJ	PK	PL	PM	PN
			Arm Span (ft)	Upright Height (ft)	Arm 'PE' x 'PF' (in)	Upright 'PE' x 'PD' (in)	No. of Sections --	Section Lengths (ft)			Splice Plate Outside Diameter (in)	Bolt Circle Diameter (in)	No. of Bolts --	Bolt Diameter (in)	Splice Plate Thickness (in)	Splice Plate Outside Weld (in)	Splice Plate Inside Weld (in)
10S687	SR 400	3733+23	41'-3"	29'-3"	30 Ø X 0.750	30 Ø X 1.000	1	28'-3"	12	2 3/16"	42"	36"	22	1 1/2"	2"	5/16"	5/16"
10S688	SR 400	3744+25	47'-0"	27'-0"	30 Ø X 0.750	30 Ø X 1.000	2	17'-0"	12	2 11/16"	42"	36"	24	1 1/2"	2 1/2"	7/16"	1/2"
10S689	SR 400	3753+00	49'-0"	25'-0"	30 Ø X 0.750	30 Ø X 1.000	2	18'-0"	12	2 3/8"	42"	36"	24	1 1/2"	2 5/8"	1/2"	3/16"
10S691	SR 400	3785+11	42'-6"	29'-0"	30 Ø X 0.750	30 Ø X 1.000	1	29'-6"	12	2 3/16"	42"	36"	22	1 1/2"	2"	5/16"	5/16"
10S693	RAMP E	6034+80	58'-6"	22'-5 1/2"	30 Ø X 0.750	30 Ø X 1.000	2	22'-9"	12	2 9/16"	42"	36"	24	1 1/2"	2 1/4"	3/8"	3/8"
10S694	CONNECTOR	10030+80	51'-0"	28'-0"	24 Ø X 0.688	24 Ø X 0.875	2	19'-0"	12	4 1/16"	36"	30"	14	1 1/2"	2"	5/16"	5/16"
10S698	SR 400	3826+13	38'-6"	27'-6"	30 Ø X 0.750	30 Ø X 1.000	1	25'-6"	12	1 3/4"	42"	36"	22	1 1/2"	1 7/8"	5/16"	5/16"
10S701	SR 400	3885+00	35'-0"	30'-0"	24 Ø X 0.688	24 Ø X 0.875	1	22'-0"	12	2 13/16"	36"	30"	14	1 1/2"	2 1/8"	5/16"	3/8"
10S741	I-4 CD WB	2175+50	44'-6"	24'-8"	24 Ø X 0.688	24 Ø X 0.875	2	15'-9"	12	3"	36"	30"	14	1 1/2"	2 3/8"	7/16"	7/16"

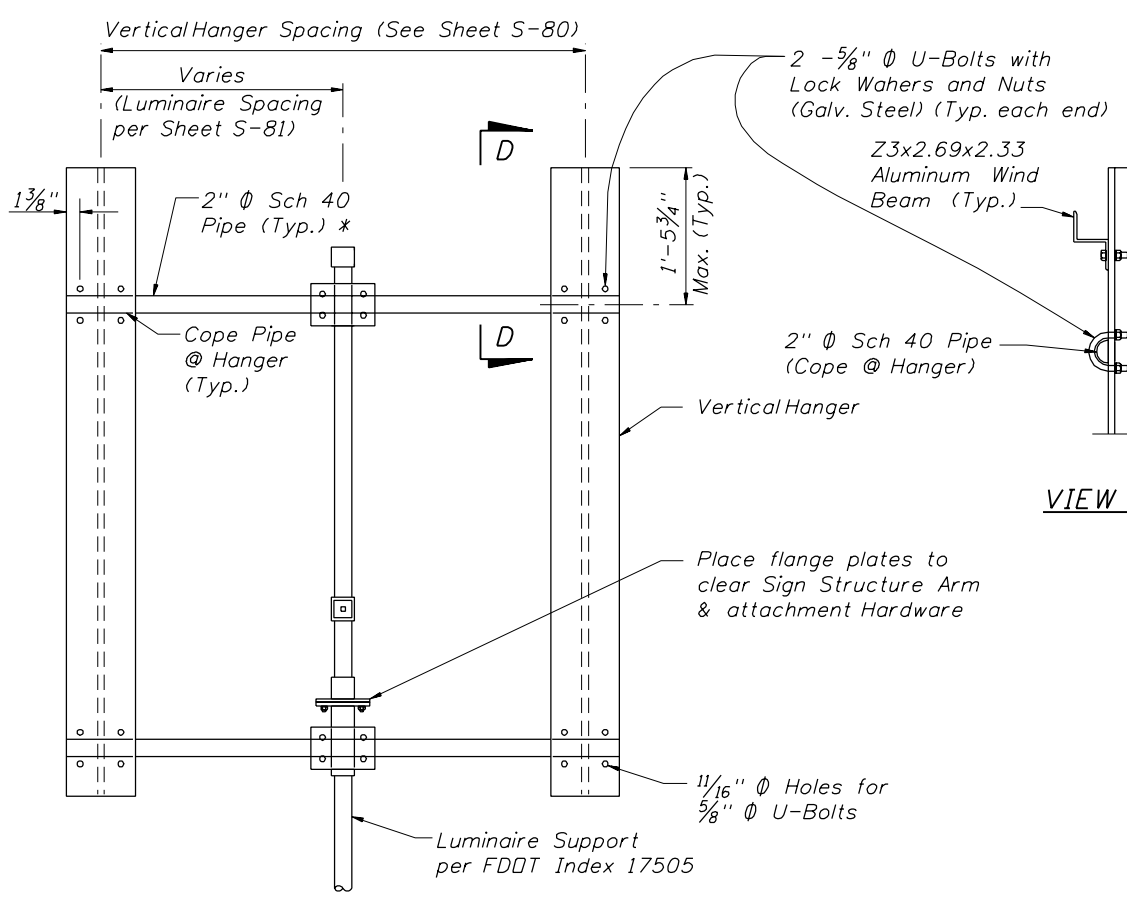
CANTILEVER SIGN STRUCTURES: TABLE OF VARIABLES																			
Structure Number	BASE PLATE DATA							STIFFENER PLATE DATA				DRILLED SHAFT DATA							
	FA	FB	FC	FD	FE	FF	FG	FH	FJ	FK	FL	FM	FN	FP	FQ	FR	FS		
	Base Plate Outside Diameter (in)	Anchor Bolt Circle Diameter (in)	Base Plate Thickness (in)	No. of Anchor Bolts --	Anchor Bolt Diameter (in)	Base Plate Inside Weld (in)	Base Plate Outside Weld (in)	Stiffener Plate Thickness (in)	Stiffener Plate Height (in)	Stiffener Plate Weld To Upright (in)	Stiffener Plate Weld To Base Plate (in)	Drilled Shaft Diameter (ft)	Drilled Shaft Length (ft)	No. of Bars --	Bar Size --	Anchor Bolt Embedment (ft)	Tie Spacing (in)	Offset to C of Drilled Shaft from Baseline (ft)	Estimated Top of Drilled Shaft Elevation (ft)
10S687	48"	39"	3 1/4"	20	2 1/4"	5/8"	5/8"	1 1/16"	18"	1/2"	7/16"	6'-0"	44	28	11	5.25	7"	94.5 Rt.	50.00
10S688	48"	39"	3 3/4"	20	2 1/4"	3/4"	1/2"	1 1/16"	18"	3/4"	7/8"	6'-0"	48	28	11	6.50	5"	53.75 Rt.	44.27
10S689	50"	40"	3 7/8"	18	2 1/2"	3/4"	1/2"	1 1/16"	20"	3/4"	7/8"	6'-0"	55	28	11	6.50	4"	91.5 Rt.	59.34
10S691	48"	39"	3 1/8"	20	2 1/4"	5/8"	9/16"	1 1/16"	18"	1/2"	7/16"	6'-0"	39	28	11	5.25	8"	90.8 Rt.	54.24
10S693	48"	39"	3"	20	2 1/4"	5/8"	1/2"	1 1/16"	18"	1/2"	7/16"	6'-0"	28	28	11	4.00	7"	17.1 Lt.	12.00
10S694	42"	33"	2 3/4"	16	2 1/4"	1/2"	7/16"	1 1/16"	18"	5/16"	5/16"	6'-0"	18	28	11	4.00	11"	71.5 Lt.	13.50
10S698	48"	39"	3 1/4"	20	2 1/4"	5/8"	5/8"	1 1/16"	18"	1/2"	7/16"	6'-0"	36	28	11	5.25	8"	86.4 Lt.	52.26
10S701	42"	33"	3 7/8"	16	2 1/4"	1 1/16"	1/2"	1 13/16"	18"	5/8"	1 1/16"	5'-6"	39	24	11	6.75	7"	90.0 Lt.	68.69
10S741	42"	33"	3 3/8"	16	2 1/4"	5/8"	9/16"	1 1/16"	18"	5/8"	3/4"	5'-0"	40	22	11	5.00	5"	56.5 Lt.	28.59

** Quantities are shown for one arm splice connection.
Number of Arm Splice Connections = 'F'.
*** See ITS plans for structural details of Sign Structures 10S692, 10S697 and 10S700.

REVISIONS						DRAWN BY			ENGINEER OF RECORD			CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	NAME	DATE	NAME	DATE	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						MD	3/09	PB Americas, Inc.		FLORIDA DEPARTMENT OF TRANSPORTATION		SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	S-78
						ALL	3/09	5405 West Cypress Street, Suite 300 Tampa, Florida 33607								
						JK	3/09	Certificate of Authorization No. 00001462								
						ALL	3/09	Antonio L. Ledesma, P.E.#60149								
						ANTONIO LEDESMA										

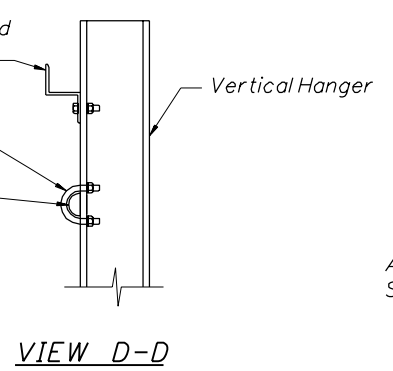


SECTION THROUGH SIGN SUPPORT

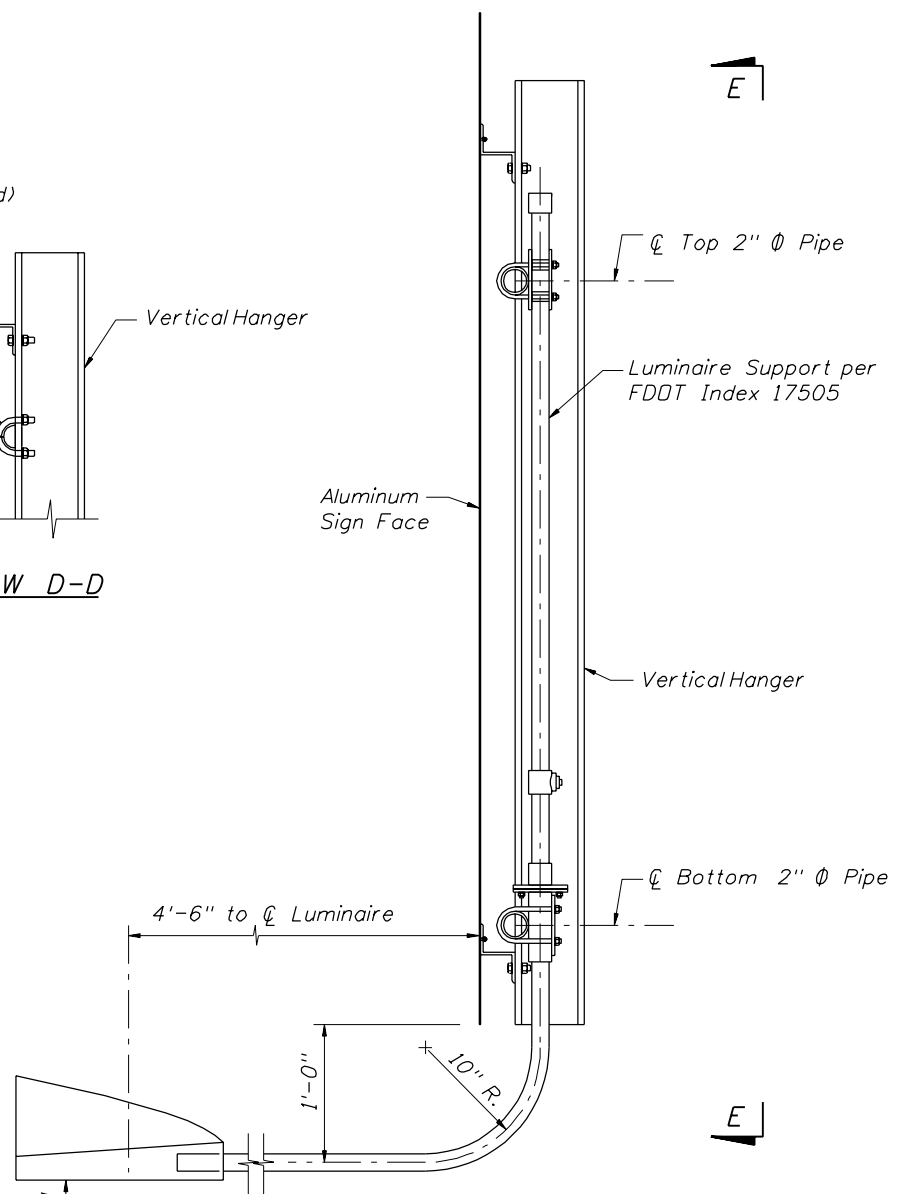


VIEW E-E

* Place pipes only in bays requiring a Luminaire.



VIEW D-D

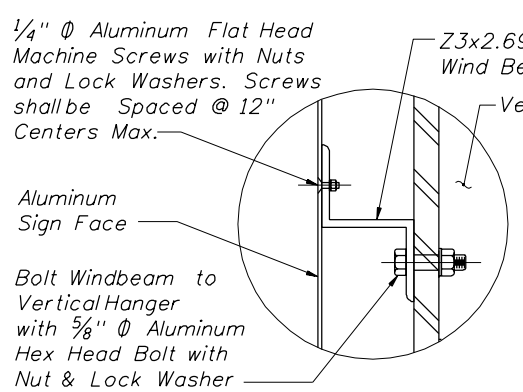


SECTION THROUGH SIGN AT LUMINAIRE

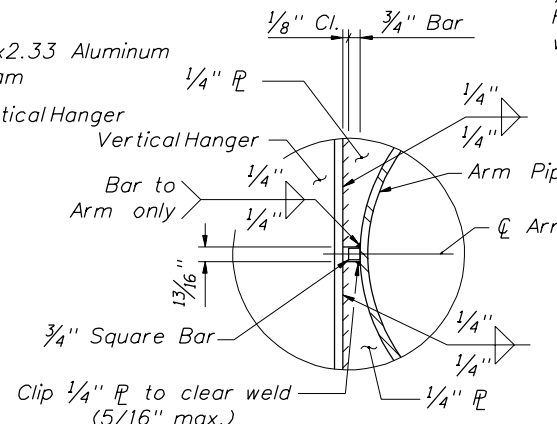
Similar for Luminaires mounted above sign panels

NOTES:

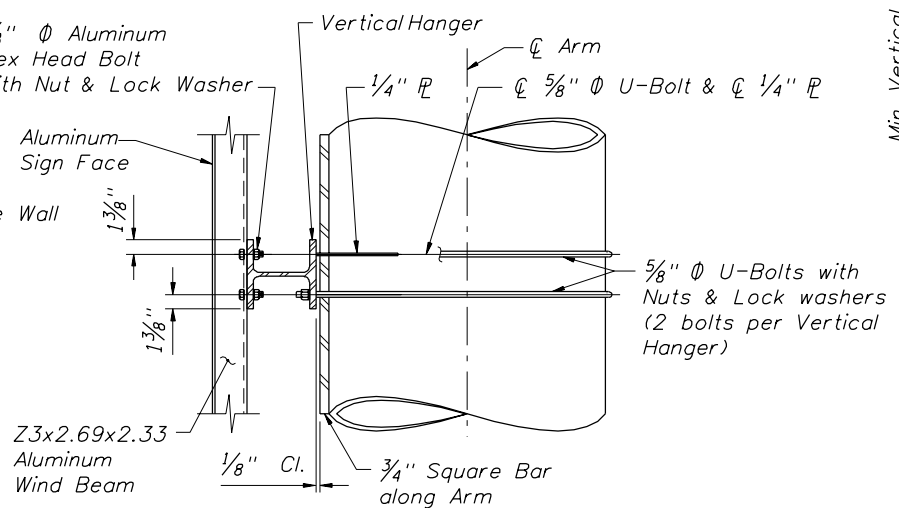
1. Work these details with FDOT Roadway Index Drawings 11300 and 17505. The size, spacing, and number of vertical hangers (Galvanized Steel W-Beams) and aluminum wind beams (Z3x2.69x2.33) shall be as noted on Sheet S-80.
2. Luminaires shall be attached to the 2" horizontal pipes as shown. Details of luminaires shall be as given in Index 17505. Spacing of luminaires shall be as noted on Sheet S-81. For General Notes specifying material type, strength, finish, etc. for sign face, wind beams, and connections, see FDOT Roadway Index Drawing 9535, sheet 1 of 3.
3. For connection of "Exit" Panels, refer to FDOT Roadway Index Drawing 13417. Provide shim plates as necessary between vertical supplementary exit sign posts and the horizontal "Z" members on the main sign panel to avoid conflict with horizontal 2" luminaire pipe support.



DETAIL "A"



DETAIL "B"



VIEW C-C

REVISIONS						CORE			SHEET TITLE		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY			PROJECT NAME		
						DRAWN BY: MD 3/09			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		
						CHECKED BY: ALL 3/09			SHEET NO. S-79		
						DESIGNED BY: JK 3/09					
						CHECKED BY: ALL 3/09					
						APPROVED BY: ANTONIO LEDESMA					

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

SIGN PANEL HANGER AND WIND BEAM TABLE *

Sign Number	SIGN PANEL 1								SIGN PANEL 2							
	Sign Panel Number	Length of Sign Panel (ft)	Depth of Sign Panel (ft)	Number of Wind Beams	Number of Vertical Hangers	Hanger Size	Overhang Top and Bottom (% of Height)	Overhang Left and Right (% of Length)	Sign Panel Number	Length of Sign Panel (ft)	Depth of Sign Panel (ft)	Number of Wind Beams	Number of Vertical Hangers	Hanger Size	Overhang Top and Bottom (% of Height)	Overhang Left and Right (% of Length)
10S687	DHC-4	17.0	19.5	7	4	W6x25	6.0%	10.7%	-	-	-	-	-	-	-	-
10S688	DHC-5	17.0	19.5	7	4	W6x25	6.0%	10.7%	DHC-13	15.5	14.5	5	3	W6x15	8.5%	14.5%
10S689	DHC-6	17.0	19.5	7	4	W6x25	6.0%	10.7%	DHC-14	15.5	12.5	5	3	W6x15	8.5%	14.5%
10S690	DHT-5	39.5	21.0	7	8	W6x25	6.0%	5.5%	-	-	-	-	-	-	-	-
10S691	DHC-3	17.0	17.5	6	4	W6x25	7.0%	10.7%	-	-	-	-	-	-	-	-
10S692	DHT-7	18.0	11.0	4	3	W6x15	10.7%	14.5%	-	-	-	-	-	-	-	-
10S693	DHC-11	17.5	10.0	4	3	W6x15	10.7%	14.5%	DHC-10	18.5	8.5	3	3	W6x15	14.5%	14.5%
10S694	DHC-1	18.5	8.5	3	3	W6x15	14.5%	14.5%	-	-	-	-	-	-	-	-
10S695	DHT-4	32.0	17.0	6	6	W6x25	7.0%	7.0%	-	-	-	-	-	-	-	-
10S697	DHT-3	18.0	11.0	4	3	W6x15	10.7%	14.5%	-	-	-	-	-	-	-	-
10S698	DHC-9	21.0	17.5	6	4	W6x25	7.0%	10.7%	-	-	-	-	-	-	-	-
10S699	DHT-6	43.0	21.0	7	8	W6x25	6.0%	5.5%	-	-	-	-	-	-	-	-
10S700	DHT-1	17.5	19.5	7	4	W6x25	6.0%	10.7%	-	-	-	-	-	-	-	-
10S701	DHC-7	17.5	19.5	7	4	W6x25	6.0%	10.7%	-	-	-	-	-	-	-	-
10S741	DHC-2	23.5	10.0	4	4	W6x15	10.7%	10.7%	-	-	-	-	-	-	-	-
10S518	SIGN 11	15.0	9.0	4	2	W6x15	10.7%	21%	-	-	-	-	-	-	-	-
SEE S-7	DHC-12	11.5	12.5	5	2	W6x15	8.5%	21%	-	-	-	-	-	-	-	-
SEE S-24	DHC-17	11.5	12.0	4	2	W6x15	10.7%	21%	-	-	-	-	-	-	-	-
SEE S-27	DHT-8	11.5	12.5	5	2	W6x15	8.5%	21%	-	-	-	-	-	-	-	-
SEE S-7	DHC-8	11.0	12.0	4	2	W6x15	10.7%	21%	-	-	-	-	-	-	-	-
SEE S-22	DHC-16	14.0	10.5	4	2	W6x15	10.7%	21%	-	-	-	-	-	-	-	-
SEE S-17	DHC-15	16.0	6.0	3	3	W6x15	14.5%	14.5%	-	-	-	-	-	-	-	-

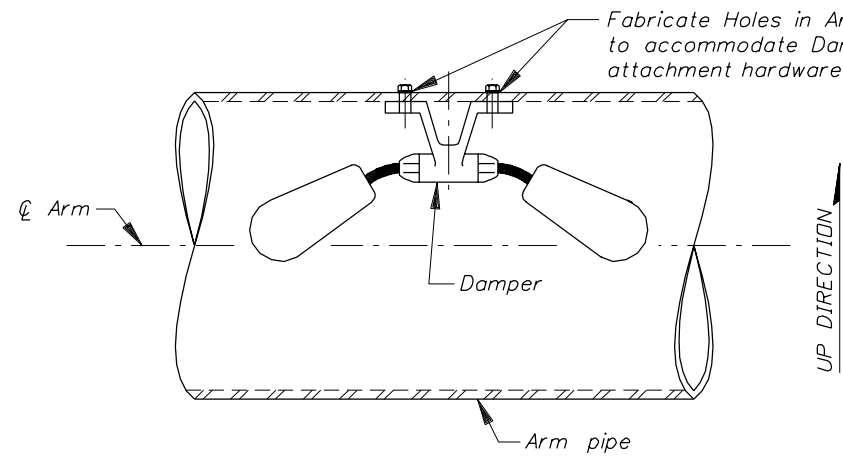
* See ITS plans for structural details of Sign Structures 10S692, 10S697 and 10S700.

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REVISIONS																																																
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																																											
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SR 400	HILLSBOROUGH	258415-2-52-01																																														

SIGN PANEL LUMINAIRE TABLE *																		
Sign Number	SIGN PANEL 1									SIGN PANEL 2								
	BOTTOM LUMINAIRES					TOP LUMINAIRES				BOTTOM LUMINAIRES					TOP LUMINAIRES			
	Sign Panel Number	Left Spacing (ft)	Number of Interior Spaces (ft)	Interior Spacing (ft)	Right Spacing (ft)	Left Spacing (ft)	Number of Interior Spaces (ft)	Interior Spacing (ft)	Right Spacing (ft)	Sign Panel Number	Left Spacing (ft)	Number of Interior Spaces (ft)	Interior Spacing (ft)	Right Spacing (ft)	Left Spacing (ft)	Number of Interior Spaces (ft)	Interior Spacing (ft)	Right Spacing (ft)
10S687	DHC-4	3.5	1	10.0	3.5	3.5	1	8.0	5.5	-	-	-	-	-	-	-	-	-
10S688	DHC-5	3.5	1	10.0	3.5	3.5	1	8.0	5.5	DHC-13	3.75	1	8.0	3.75	10.75	-	-	4.75
10S689	DHC-6	3.5	1	10.0	3.5	3.5	1	8.0	5.5	DHC-14	3.75	1	8.0	3.75	10.5	-	-	5.0
10S690	DHT-5	3.75	4	8.0	3.75	3.75	4	8.0	3.75	-	-	-	-	-	-	-	-	-
10S691	DHC-3	5.0	1	7.0	5.0	3.5	1	8.0	5.5	-	-	-	-	-	-	-	-	-
10S692	DHT-7	2.75	2	6.25	2.75	-	-	-	-	-	-	-	-	-	-	-	-	-
10S693	DHC-11	3.25	2	5.5	3.25	-	-	-	-	DHC-10	1.75	2	7.5	1.75	-	-	-	-
10S694	DHC-1	1.75	2	7.5	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-
10S695	DHT-4	4.75	2	11.25	4.75	4.75	2	11.25	4.75	-	-	-	-	-	-	-	-	-
10S697	DHT-3	2.75	2	6.25	2.75	-	-	-	-	-	-	-	-	-	-	-	-	-
10S698	DHC-9	4.5	2	6.0	4.5	3.5	1	11.5	6.0	-	-	-	-	-	-	-	-	-
10S699	DHT-6	2.5	4	9.5	2.5	2.5	4	9.5	2.5	-	-	-	-	-	-	-	-	-
10S700	DHT-1	3.75	1	9.25	4.5	3.75	1	9.25	4.5	-	-	-	-	-	-	-	-	-
10S701	DHC-7	3.75	1	9.25	4.5	3.75	1	9.25	4.5	-	-	-	-	-	-	-	-	-
10S741	DHC-2	3.5	3	5.5	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-
10S518	SIGN 11	3.5	1	8.0	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-
10S745	DHT-2	5.5	2	11.0	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-
SEE S-7	DHC-12	5.75	-	-	5.75	3.75	-	-	7.75	-	-	-	-	-	-	-	-	-
SEE S-24	DHC-17	5.75	-	-	5.75	3.75	-	-	7.75	-	-	-	-	-	-	-	-	-
SEE S-27	DHT-8	5.75	-	-	5.75	3.75	-	-	7.75	-	-	-	-	-	-	-	-	-
SEE S-7	DHC-8	5.5	-	-	5.5	3.5	-	-	7.5	-	-	-	-	-	-	-	-	-
SEE S-22	DHC-16	3.0	1	8.0	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-
SEE S-17	DHC-15	3.5	1	9.0	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-

* See ITS plans for structural details of Sign Structures 10S692, 10S697 and 10S700.

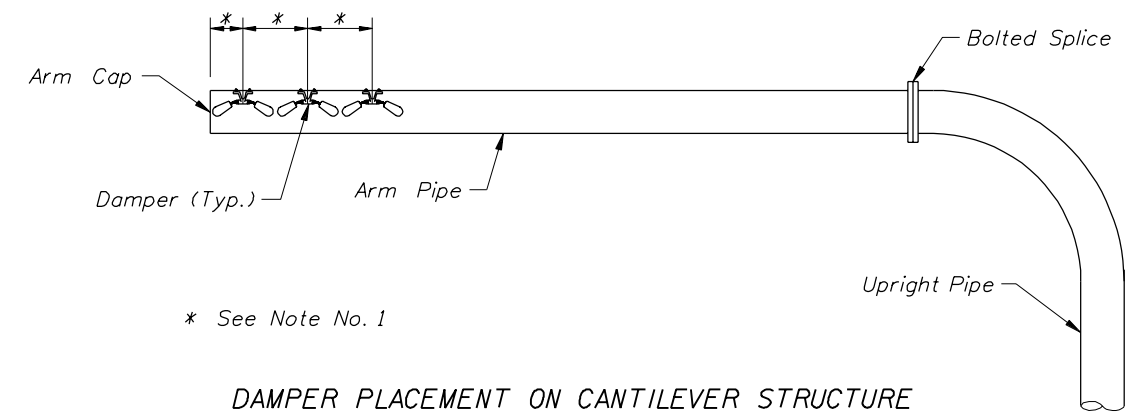
REVISIONS					CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	ENGINEER OF RECORD:
						MD	MO	3/09	PB Americas, Inc.
						ALL	ALL	3/09	5405 West Cypress Street, Suite 300
						JK	JK	3/09	Tampa, Florida 33607
						ALL	ALL	3/09	Certificate of Authorization No. 00001462
						ANTONIO LEDESMA	ANTONIO LEDESMA		Antonio L. Ledesma, P.E.#60149
					ROAD NO.			COUNTY	
					SR 400			HILLSBOROUGH	
					FINANCIAL PROJECT ID			258415-2-52-01	
					PROJECT NAME:			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
					SHEET NO.			S-81	



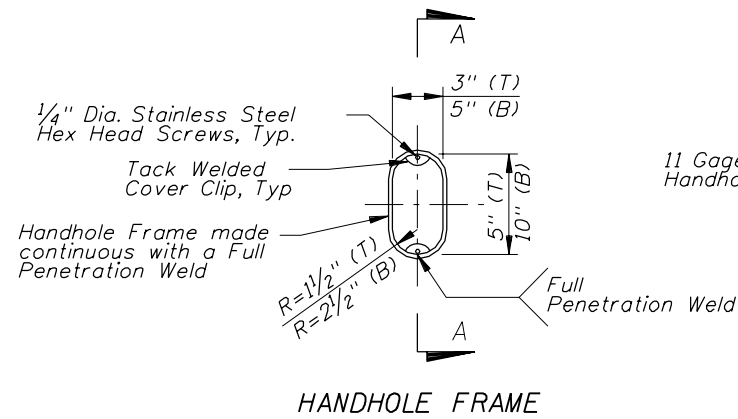
DAMPER CONNECTION DETAIL

DAMPER NOTES:

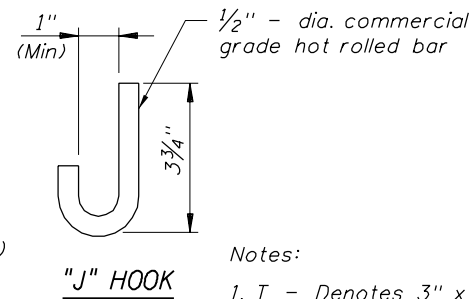
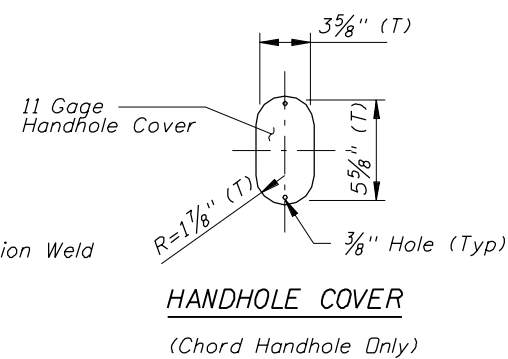
1. Damper placement and attachment dimensions and details shall be per the Damper Manufacturer's recommendations. The damper manufacturer is responsible for determining the damper placement location for effective performance. The contractor's shop drawing submittal for sign structures shall include the manufacturer data, mounting location, details, material and hardware for the dampers.
2. Holes for Damper attachment hardware in the Arm pipe shall be fabricated prior to Galvanizing.
3. The cost of the Dampers shall be included in the pay item for the completed Sign Structure.



DAMPER PLACEMENT ON CANTILEVER STRUCTURE

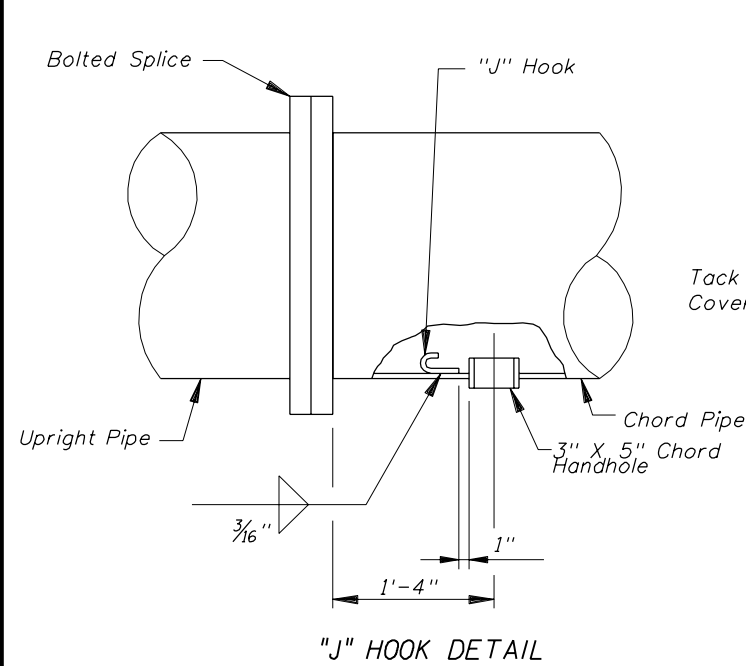


HANDHOLE FRAME

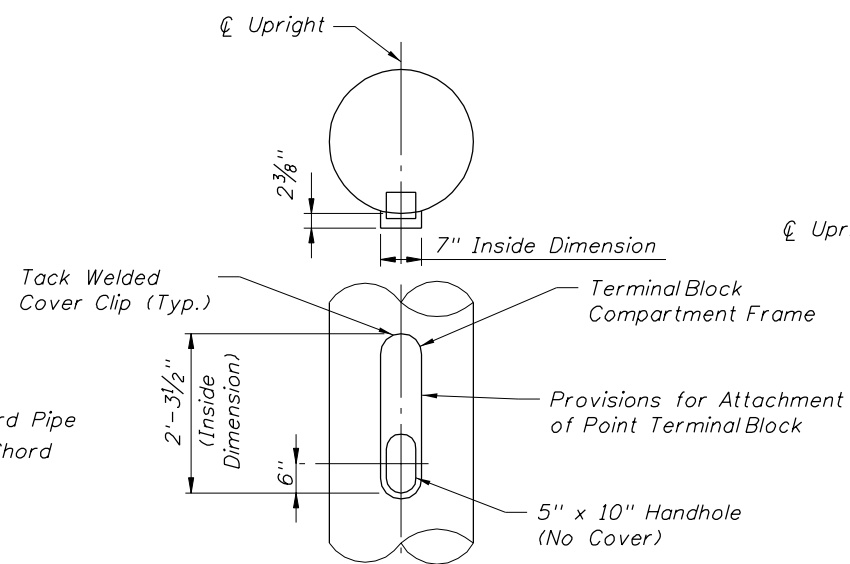


Notes:

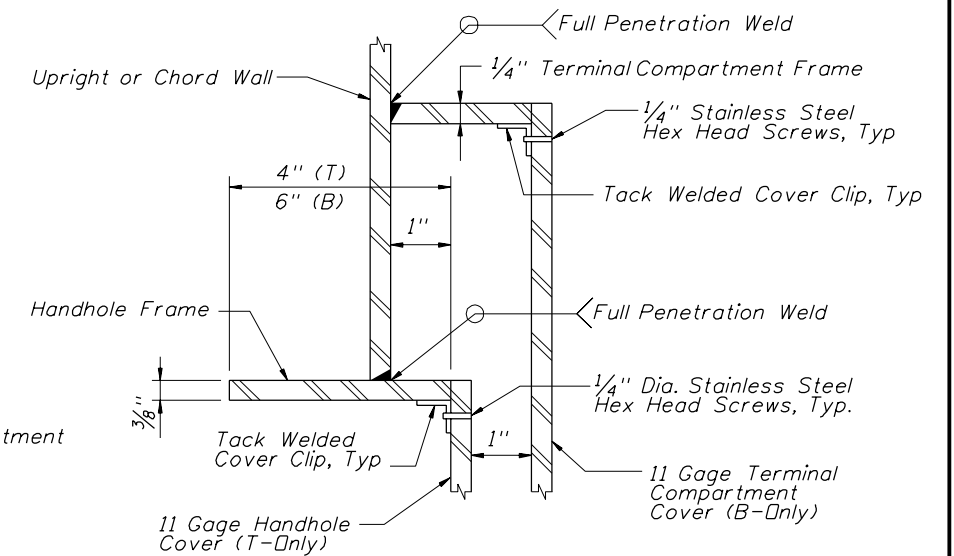
1. T - Denotes 3" x 5" Chord Handhole
B - Denotes 5" x 10" Upright Handhole



"J" HOOK DETAIL



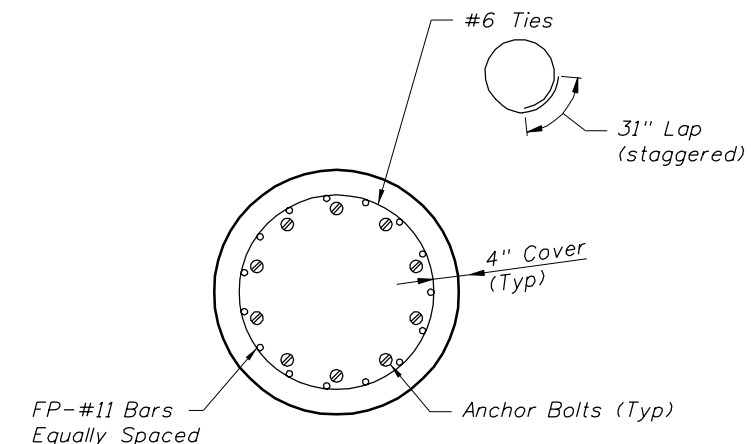
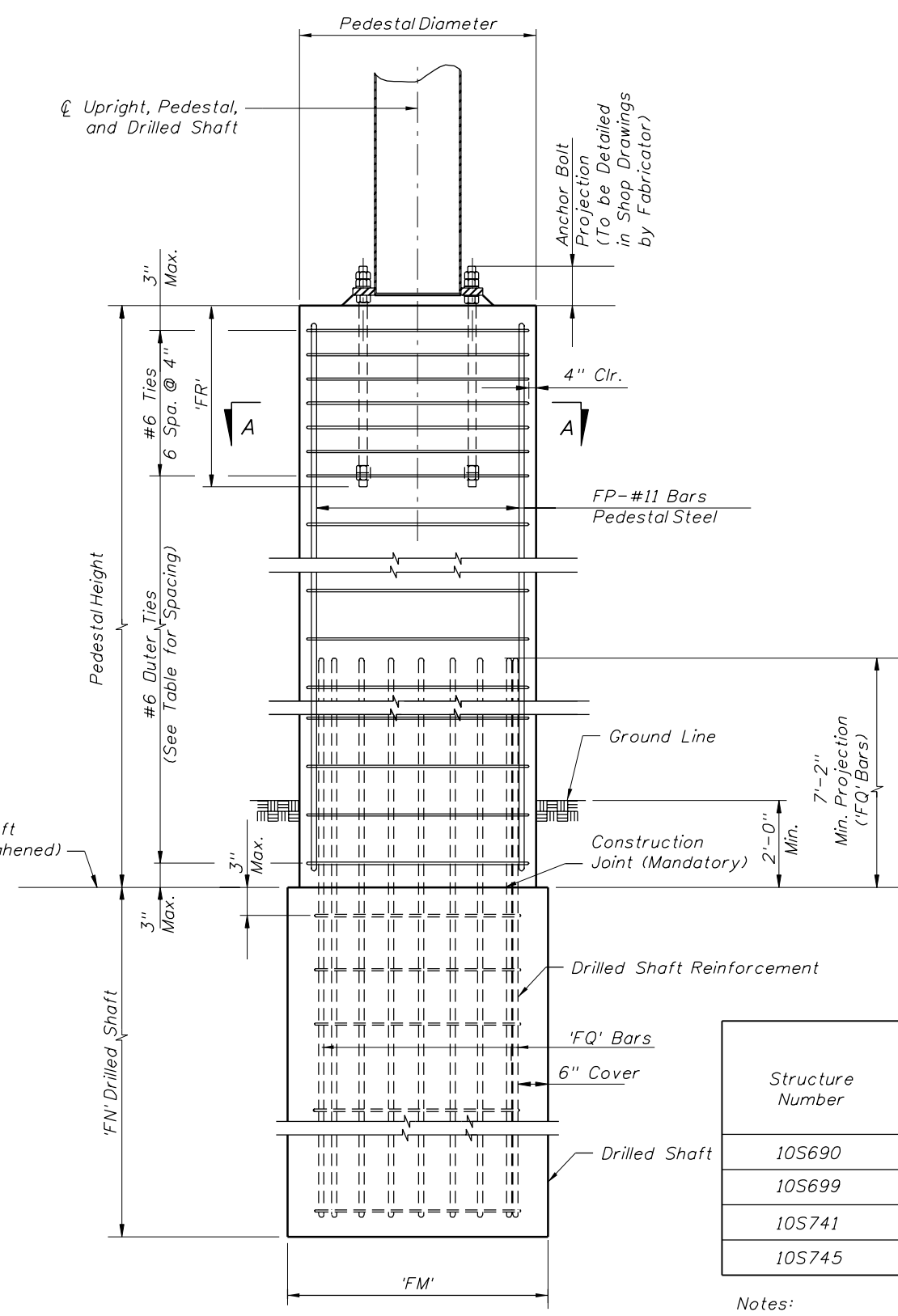
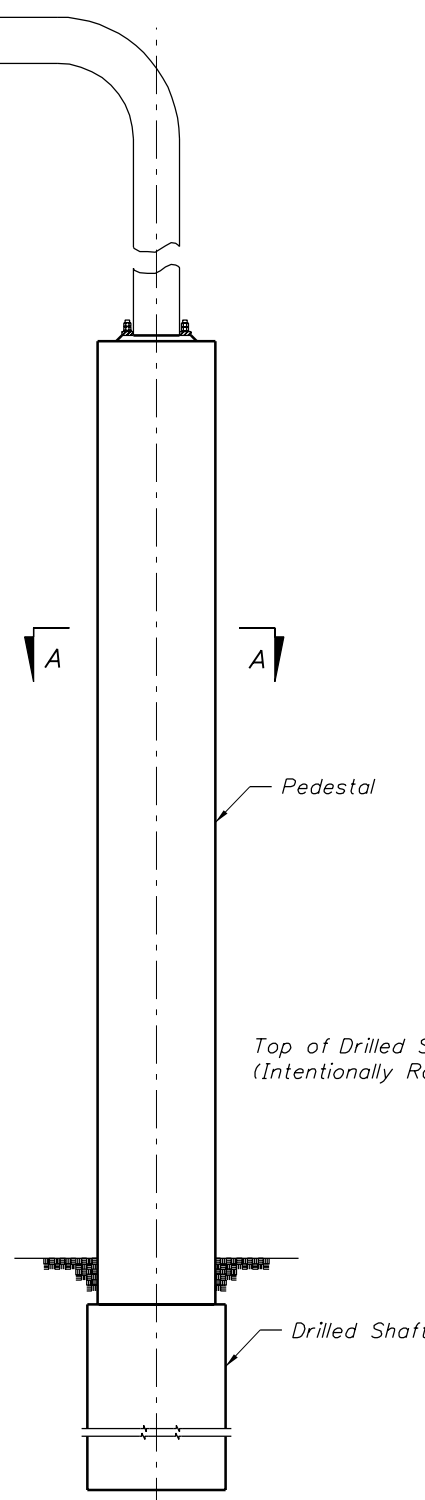
UPRIGHT HANDHOLE DETAIL



SECTION A-A

(Thru Handhole and Terminal compartment)
(No Terminal Compartment on Chord Handhole)

REVISIONS						CORE			SHEET TITLE:		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ENGINEER OF RECORD:			CANTILEVER AND SPAN SIGN STRUCTURES MISCELLANEOUS DETAILS (4 OF 4)		
						DRAWN BY: MD 3/09			FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 400 HILLSBOROUGH 258415-2-52-01		
						CHECKED BY: ALL 3/09					
						DESIGNED BY: JK 3/09					
						CHECKED BY: ALL 3/09					
						APPROVED BY: ANTONIO LEDESMA			PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		
						ENGINEER OF RECORD: PB Americas, Inc. 5405 West Cypress Street, Suite 300 Tampa, Florida 33607 Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			SHEET NO. S-82		



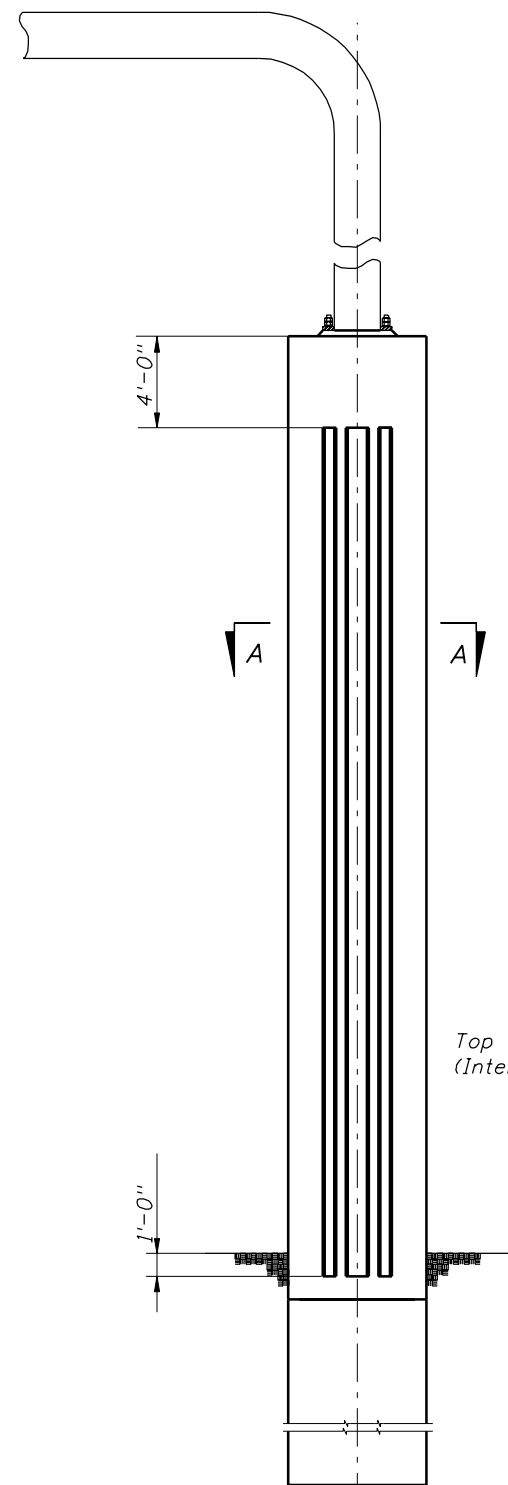
Structure Number	Pedestal Diameter (ft.)	Pedestal Offset from Baseline (ft.)	Top of Pedestal Elevation (ft.)	Top of Drilled Shaft Elevation (ft.)	Pedestal Height (ft.)	#6 Outer Tie Spacing (in.)
10S690	4.50	119.0 Rt.	65.600	44.000	21.600	8"
10S699	5.00	193.5 Lt.	63.600	25.500	38.100	11"
10S741	4.50	56.5 Lt.	52.830	28.330	24.500	3"
10S745	4.50	79.5 Rt.	51.270	23.270	28.000	7"

Notes:
 1. Concrete for Special Pedestals shall be Class IV, f'c = 5.5 ksi.
 2. Provide conduit in column pedestal and drilled shaft for electrical wiring as required.

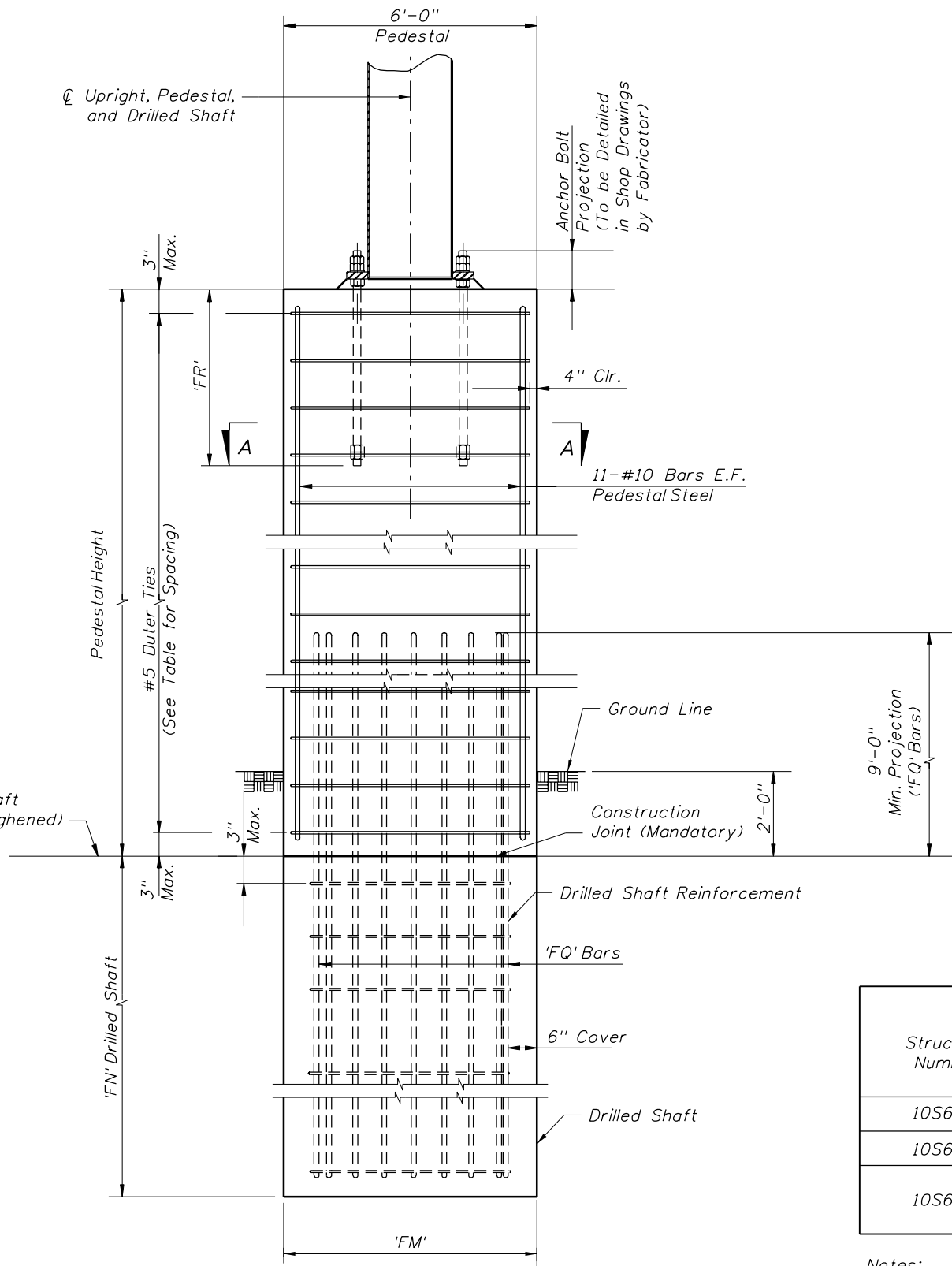
For Anchor Bolt and Drilled Shaft Dimensions, See Sheets S-74, S-77 and S-78.

REVISIONS						ENGINEER OF RECORD			CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			CANTILEVER AND SPAN SIGN STRUCTURES SPECIAL PEDESTAL DETAILS (1 OF 2)	
						MD		3/09	ROAD NO. COUNTY FINANCIAL PROJECT ID			PROJECT NAME	
						ALL		3/09	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						JK		3/09				SHEET NO.	
						ALL		3/09				S-83	
						ANTONIO LEDESMA	APPROVED BY						

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

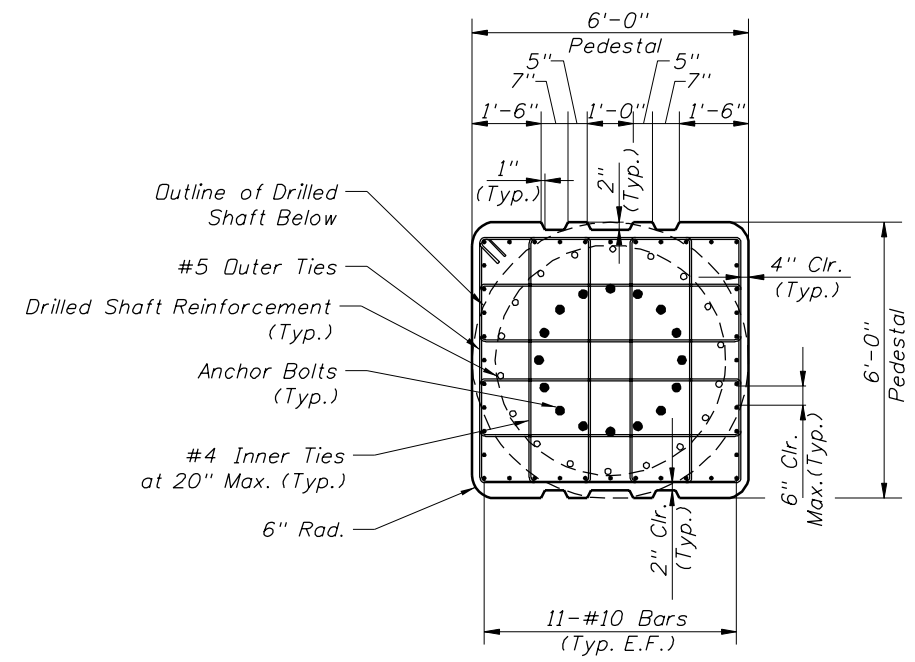


ELEVATION
SPECIAL PEDESTAL DETAIL
AT STRUCTURES
10S693
10S694
10S695



SPECIAL PEDESTAL DETAIL

For Anchor Bolt and Drilled Shaft Dimensions,
See Sheets S-74, S-77 and S-78.



SECTION A-A












Structure Number	Pedestal Offset from Baseline (ft.)	Top of Pedestal Elevation (ft.)	Top of Drilled Shaft Elevation (ft.)	Pedestal Height (ft.)	#5 Outer Tie Spacing (in.)
10S693	17.1 Lt.	53.500	12.000	41.500	6"
10S694	71.5 Lt.	46.750	13.500	33.250	12"
10S695	131.0 Lt.	38.000	15.000	23.000	12"
	77.0 Lt.	38.000	15.000	23.000	12"

- Notes:
 1. Concrete for Special Pedestals shall be Class IV, $f'c = 5.5$ ksi.
 2. Provide conduit in column pedestal and drilled shaft for electrical wiring as required.

REVISIONS						ENGINEER OF RECORD			CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			CANTILEVER AND SPAN SIGN STRUCTURES SPECIAL PEDESTAL DETAILS (2 OF 2)	
						MD		3/09	5405 West Cypress Street, Suite 300 Tampa, Florida 33607			PROJECT NAME:	
						ALL		3/09	Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			PROJECT NO.:	
						JK		3/09	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						ALL		3/09				SHEET NO.:	
						ANTONIO LEDESMA						S-84	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

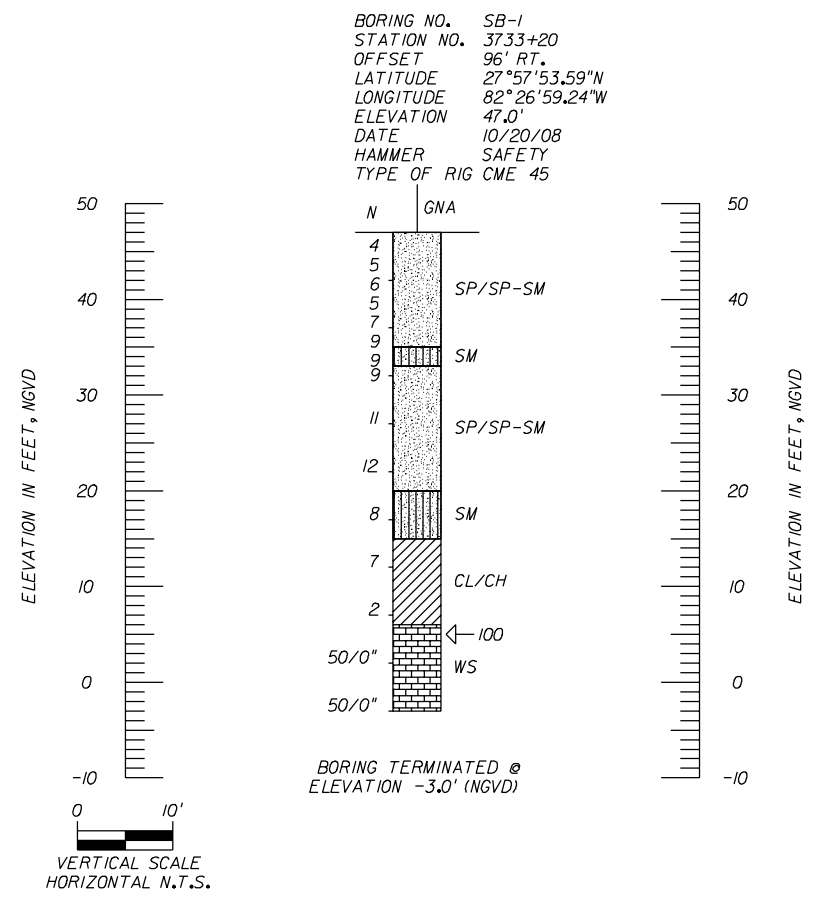
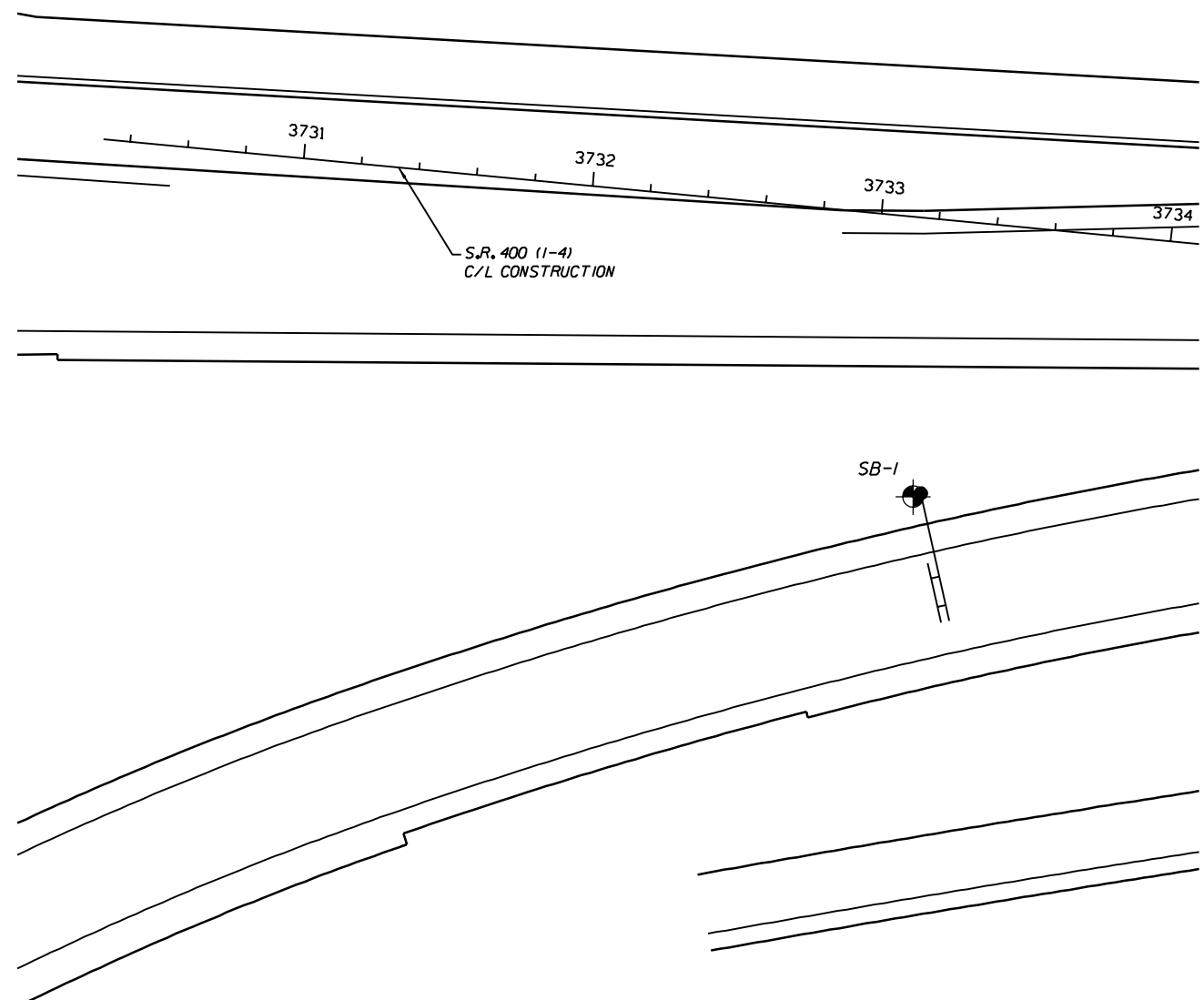
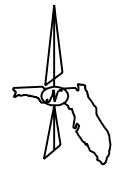
-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE WH INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- ON THE LEFT SIDE OF A SOIL PROFILE WR INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

ENVIRONMENTAL CLASSIFICATION
 SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-1	0-32	4-12	SP/SP-SM, SM	105	42.6	29	0	0.347	2.88
	32-41	2-7	CL/CH	115	52.6	0	700	1.000	1.00
	41-50	50/0"	LIMESTONE	135	72.6	0	10,000	1.000	1.00














NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.

REVISIONS						ENGINEER OF RECORD			CORE			STRUCTURE NO. 10S687	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		
						DRAWN BY	DJG	11/08	ROAD NO. SR 400			SHEET NO. S-85	
						CHECKED BY	KME	11/08	COUNTY HILLSBOROUGH			PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						DESIGNED BY	KME	11/08	FINANCIAL PROJECT ID 258415-2-52-01			PROJECT NO. 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						CHECKED BY	CLK	11/08					
						APPROVED BY	CHING L. KUO, Ph.D., P.E.		ENGINEER OF RECORD: PROFESSIONAL SERVICE INDUSTRIES, INC. 5801 BENJAMIN CENTER DR., SUITE 112 TAMPA, FL 33634 (813) 886-1075 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684 CHING L. KUO, Ph.D., P.E. FLORIDA LICENSE No. 36115				

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:**
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- WH
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- WR
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

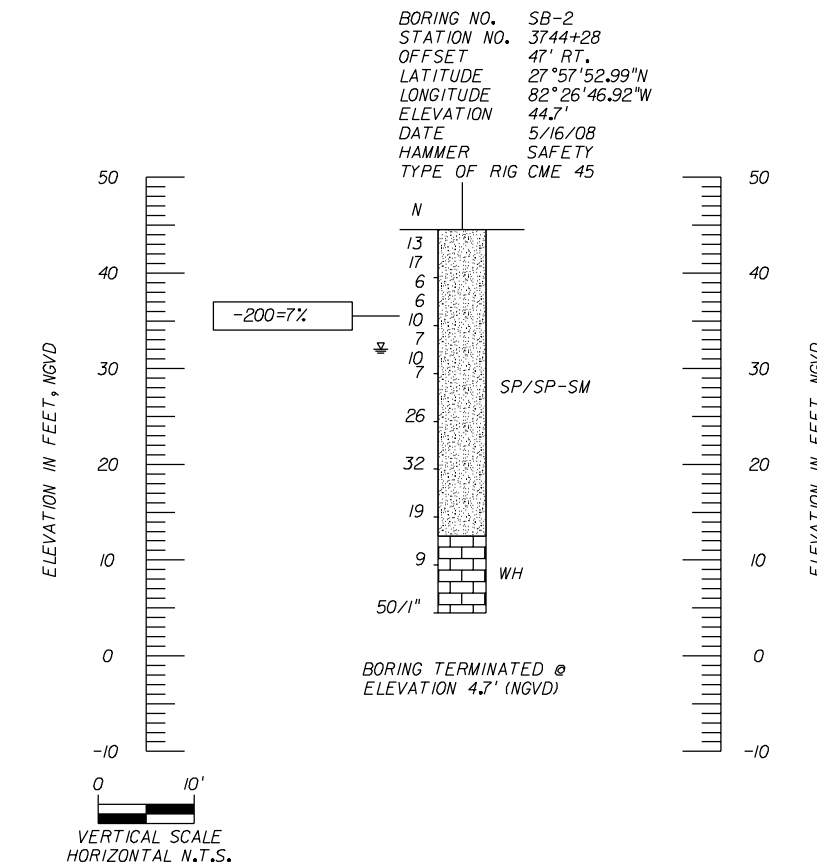
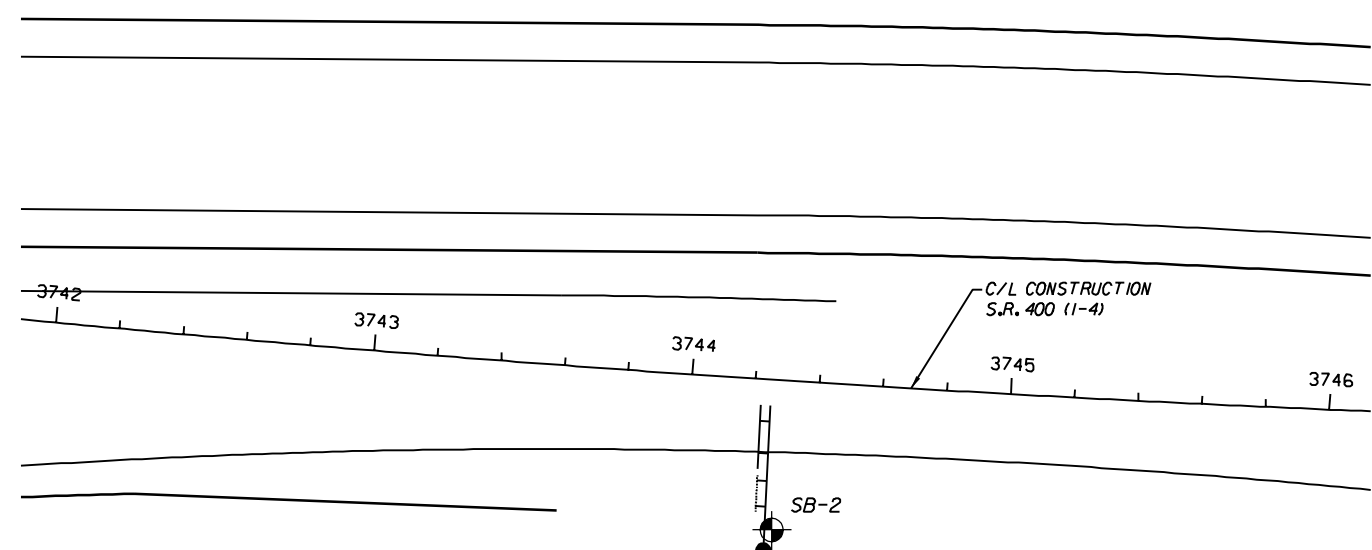
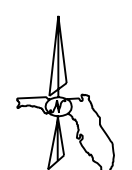
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

SOIL PARAMETERS									
BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-2	0-17	6-17	SP/SP-SM	105	42.6	29	0	0.347	2.88
	17-32	19-32	SP/SP-SM	115	52.6	32	0	0.307	3.25
	32-40	9-50/1"	LIMESTONE	135	72.6	0	8,500	1.000	1.00














NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION 1-4 EXCEPT WHERE NOTED.

REVISIONS						ENGINEER OF RECORD			CORE			STRUCTURE NO. 10S688		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		
						DJG	PROFESSIONAL SERVICE INDUSTRIES, INC.	11/08	SR 400 HILLSBOROUGH 258415-2-52-01			REPORT OF CORE BORINGS (2 OF 12)		
						KME	5801 BENJAMIN CENTER DR., SUITE 112	11/08						
						KME	TAMPA, FL. 33634 (813) 886-1075	11/08						
						CLK	FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684	11/08						
						CHING L. KUO, Ph.D., P.E.	CHING L. KUO, Ph.D., P.E.		PROJECT NAME:			SHEET NO.		
							FLORIDA LICENSE No. 36115		1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE			S-86		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE WH INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- ON THE LEFT SIDE OF A SOIL PROFILE WR INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

ENVIRONMENTAL CLASSIFICATION

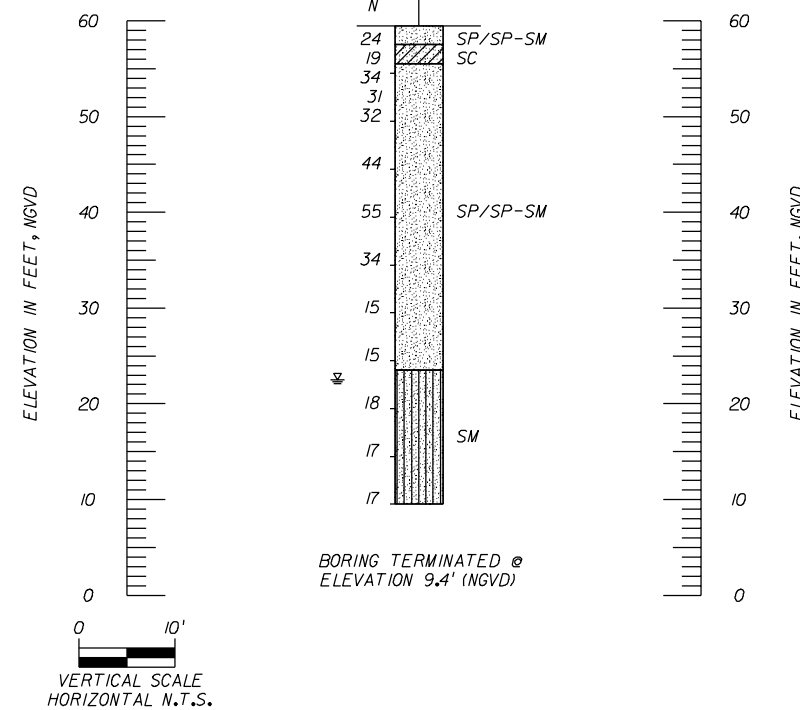
SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

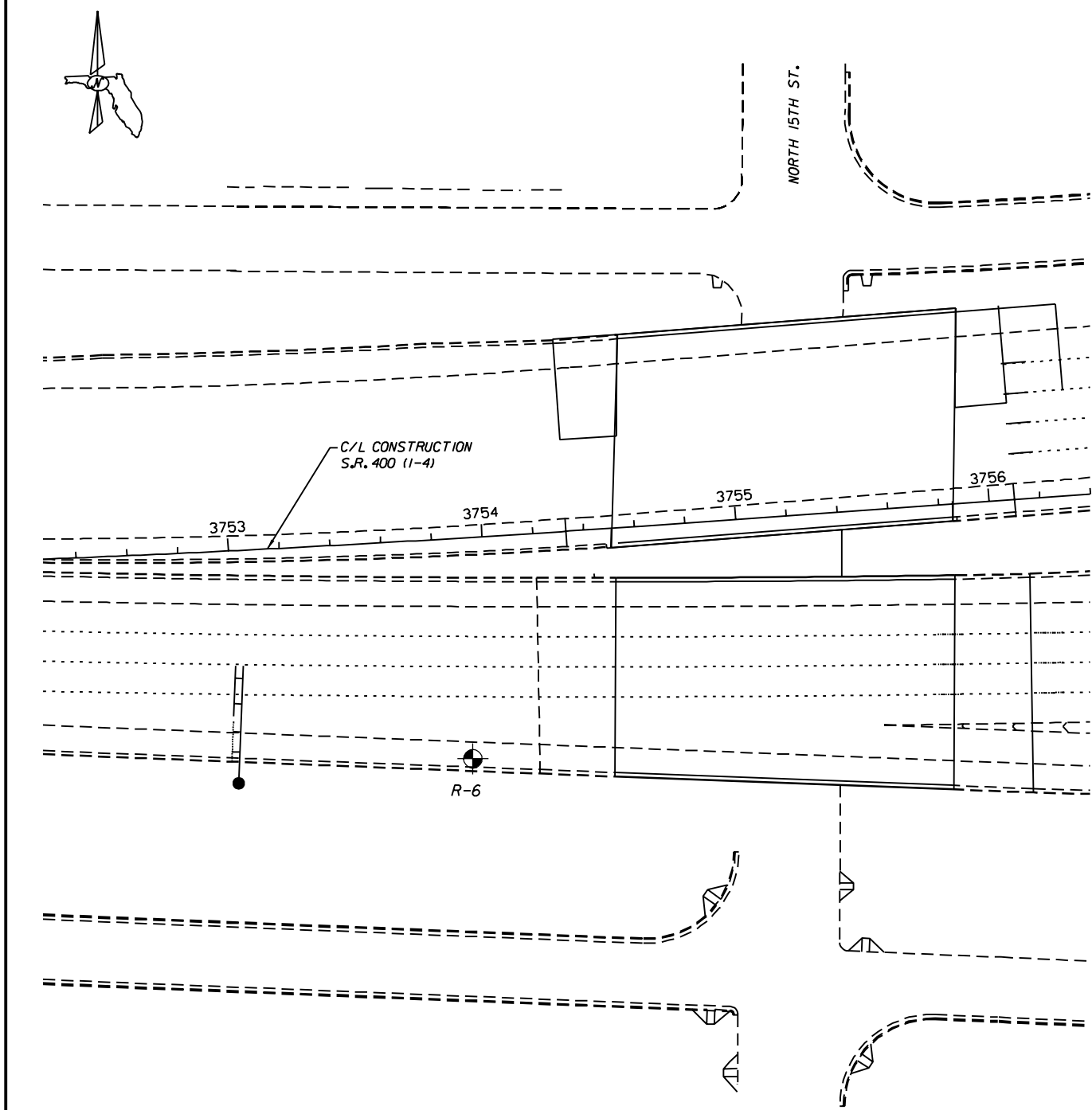
BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
R-6	0-25 25-50	19-55 15-18	SP/SP-SM, SC SP/SP-SM, SM	120 110	57.6 47.6	33 30	0 0	0.295 0.333	3.39 3.00

BORING NO. R-6
 STATION NO. 3753+91
 OFFSET 87' RT.
 LATITUDE -
 LONGITUDE -
 ELEVATION 59.4'
 DATE 6/3/94
 HAMMER SAFETY
 TYPE OF RIG CME 550



BORING TERMINATED @ ELEVATION 9.4' (NGVD)

NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.



REVISIONS						CORE			STRUCTURE NO. 10S689		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET TITLE:		
						SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (3 OF 12)		
DRAWN BY: DJG 11/08 CHECKED BY: KME 11/08 DESIGNED BY: KME 11/08 CHECKED BY: CLK 11/08 APPROVED BY: CHING L. KUO, Ph.D., P.E.						ENGINEER OF RECORD: PROFESSIONAL SERVICE INDUSTRIES, INC. 5801 BENJAMIN CENTER DR., SUITE 112 TAMPA, FL 33634 (813) 886-1075 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684 CHING L. KUO, Ph.D., P.E. FLORIDA LICENSE No. 36115			PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE SHEET NO.: S-87		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

- (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
- (SM), BROWN TO DARK BROWN SILTY FINE SAND
- (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
- (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
- (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
- (PT), DARK BROWN TO BLACK SANDY PEAT
- (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
- (CL), LIGHT GRAY TO BROWN SANDY CLAY
- (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
- CHERT
- (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:**
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- WH ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- WR ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

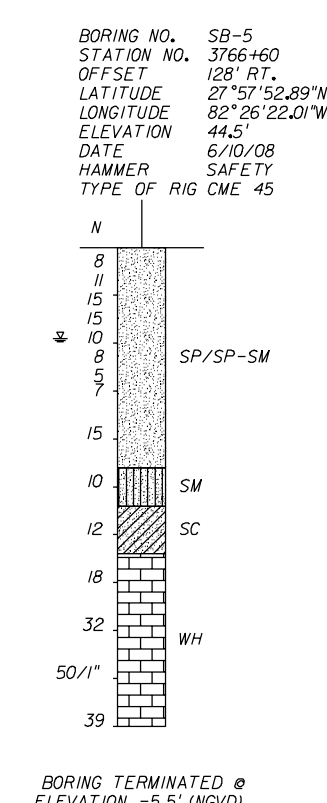
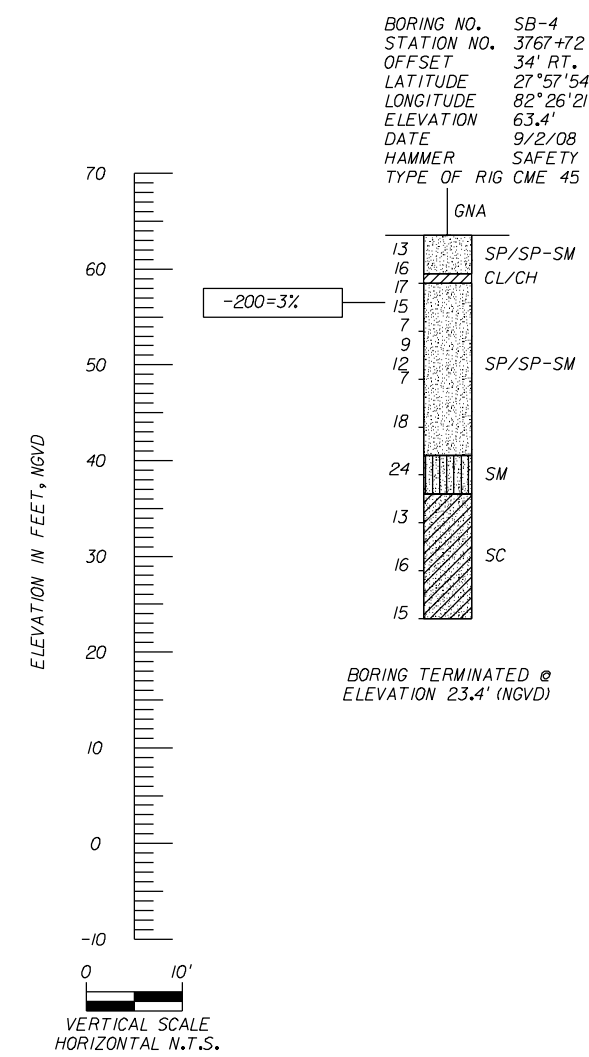
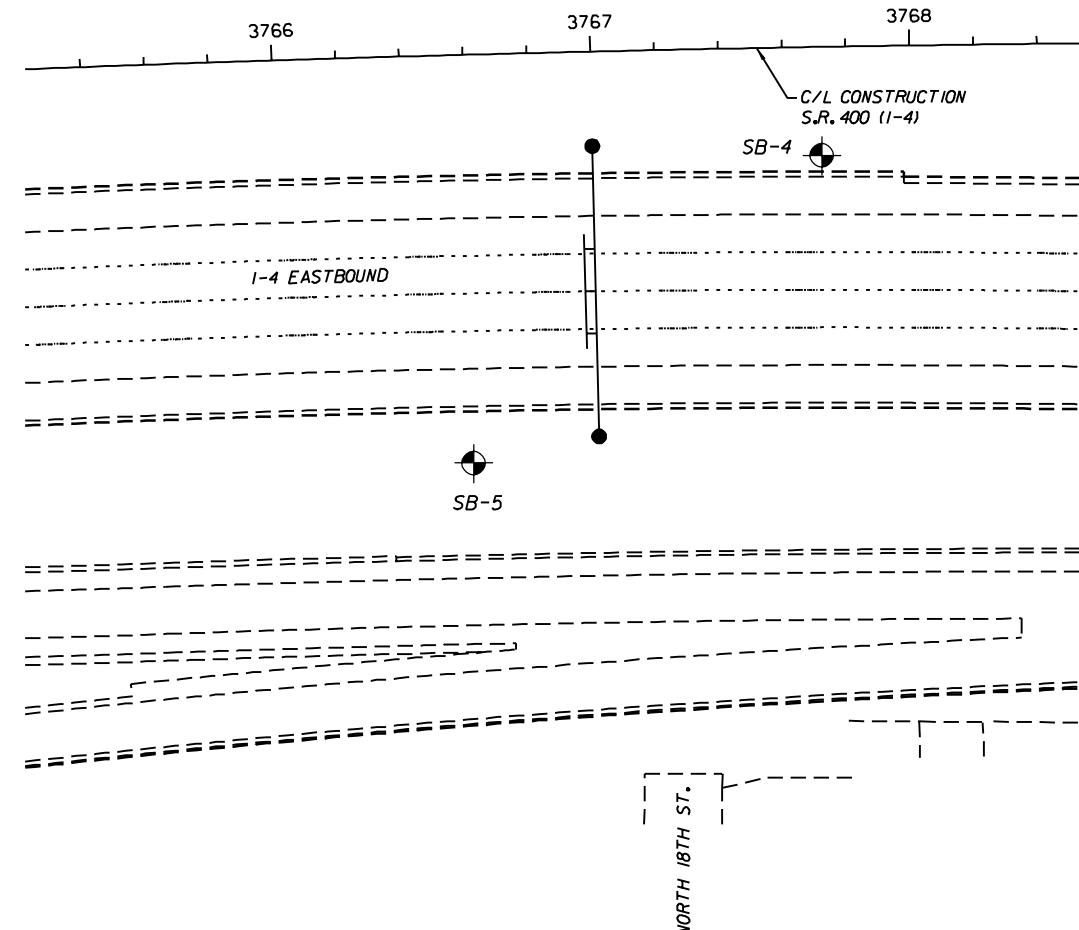
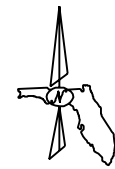
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-4	0-8	13-17	SP/SP-SM, CL/CH	110	47.6	30	0	0.333	3.00
	8-17	7-12	SP/SP-SM	105	42.6	29	0	0.347	2.88
	17-40	13-24	SP/SP-SM, SM, SC	110	47.6	30	0	0.333	3.00
SB-5	0-32	5-8	SP/SP-SM, SM, SC	110	47.6	30	0	0.333	3.00
	32-43	18-32	LIMESTONE	135	72.6	0	2,500	1,000	1.00
	43-50	39-50/1"	LIMESTONE	135	72.6	0	10,000	1,000	1.00














NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.

CORE			STRUCTURE NO. 10S690	
FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (4 OF 12)	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	
SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
			SHEET NO.	S-88

REVISIONS						NAMES		DATES	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						DRAWN BY	DJG	11/08	ENGINEER OF RECORD: PROFESSIONAL SERVICE INDUSTRIES, INC. 5801 BENJAMIN CENTER DR., SUITE 112 TAMPA, FL 33634 (813) 886-1075 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684 CHING L. KUO, Ph.D., P.E. FLORIDA LICENSE No. 36115
					CHECKED BY	KME	11/08		
					DESIGNED BY	KME	11/08		
					CHECKED BY	CLK	11/08		
					APPROVED BY	CHING L. KUO, Ph.D., P.E.			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.

LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:**
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE WH INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- ON THE LEFT SIDE OF A SOIL PROFILE WR INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

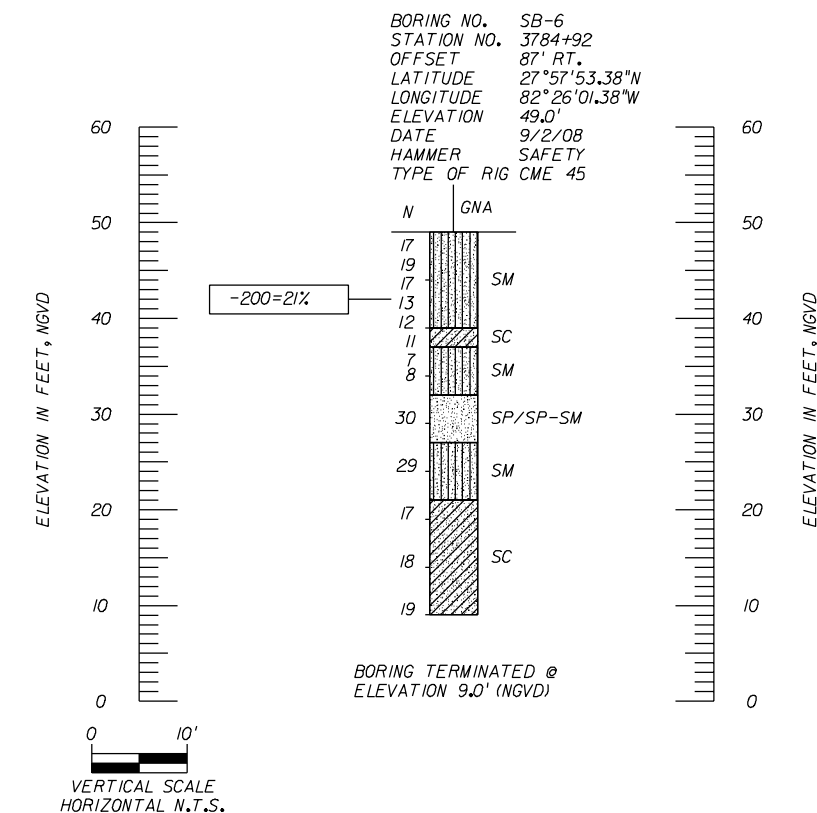
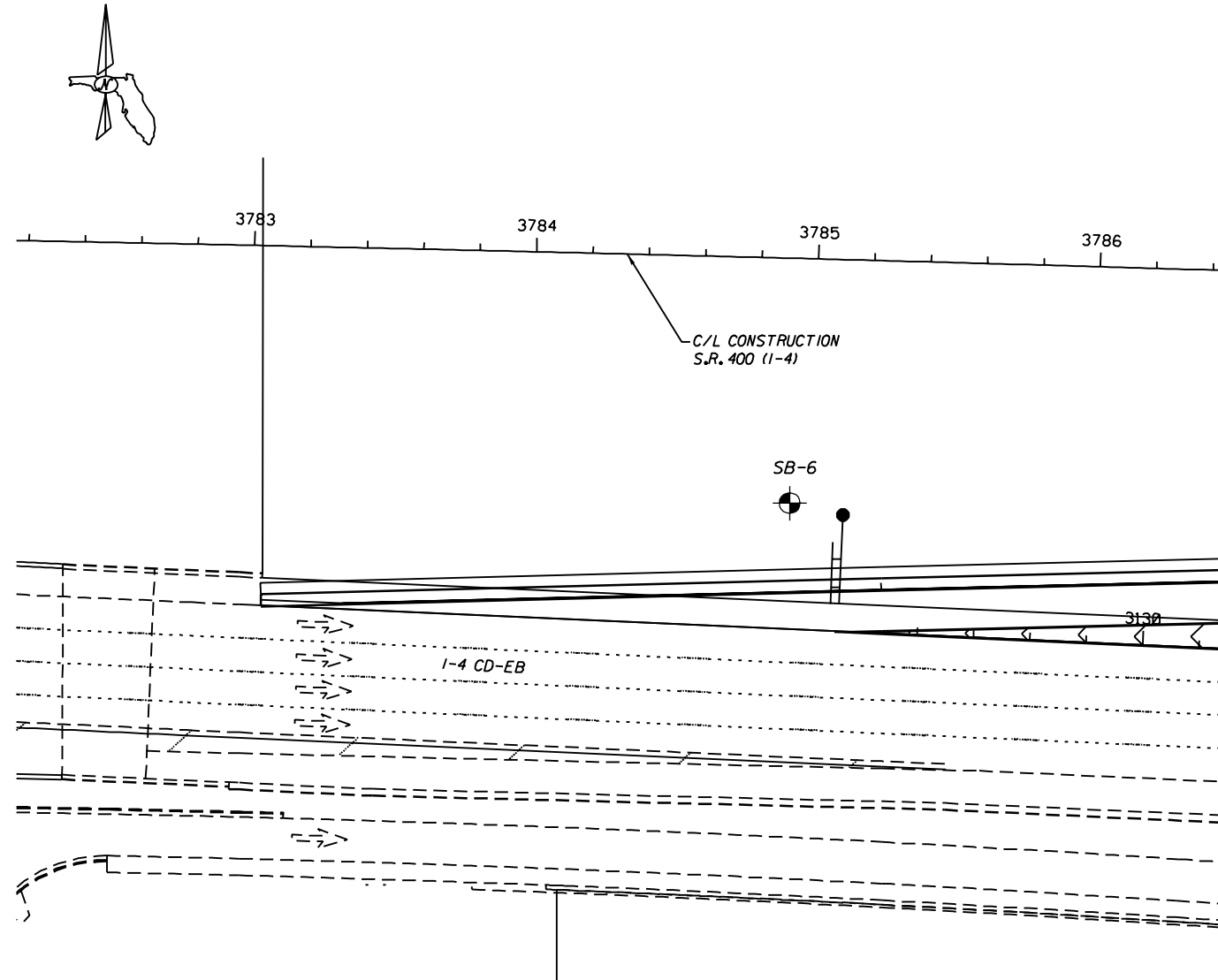
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				% SAT	% SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-6	0-12	11-19	SM, SC	110	47.6	30	0	0.333	3.00
	12-17	7-8	SM	105	42.6	29	0	0.347	2.88
	17-40	17-30	SP/SP-SM, SM, SC	115	52.6	32	0	0.307	3.25



BORING NO. SB-6
 STATION NO. 3784+92
 OFFSET 87' RT.
 LATITUDE 27°57'53.38"N
 LONGITUDE 82°26'01.38"W
 ELEVATION 49.0'
 DATE 9/2/08
 HAMMER SAFETY
 TYPE OF RIG CME 45












BORING TERMINATED @
 ELEVATION 9.0' (NGVD)

NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.

REVISIONS						ENGINEER OF RECORD			CORE			STRUCTURE NO. 10S691	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						DJG	PROFESSIONAL SERVICE INDUSTRIES, INC.	11/08	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	S-89
						KME	5801 BENJAMIN CENTER DR., SUITE 112	11/08					
						KME	TAMPA, FL 33634 (813) 886-1075	11/08					
						CLK	FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684	11/08					
						CHING L. KUO, Ph.D., P.E.	CHING L. KUO, Ph.D., P.E.						
							FLORIDA LICENSE No. 36115						

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LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

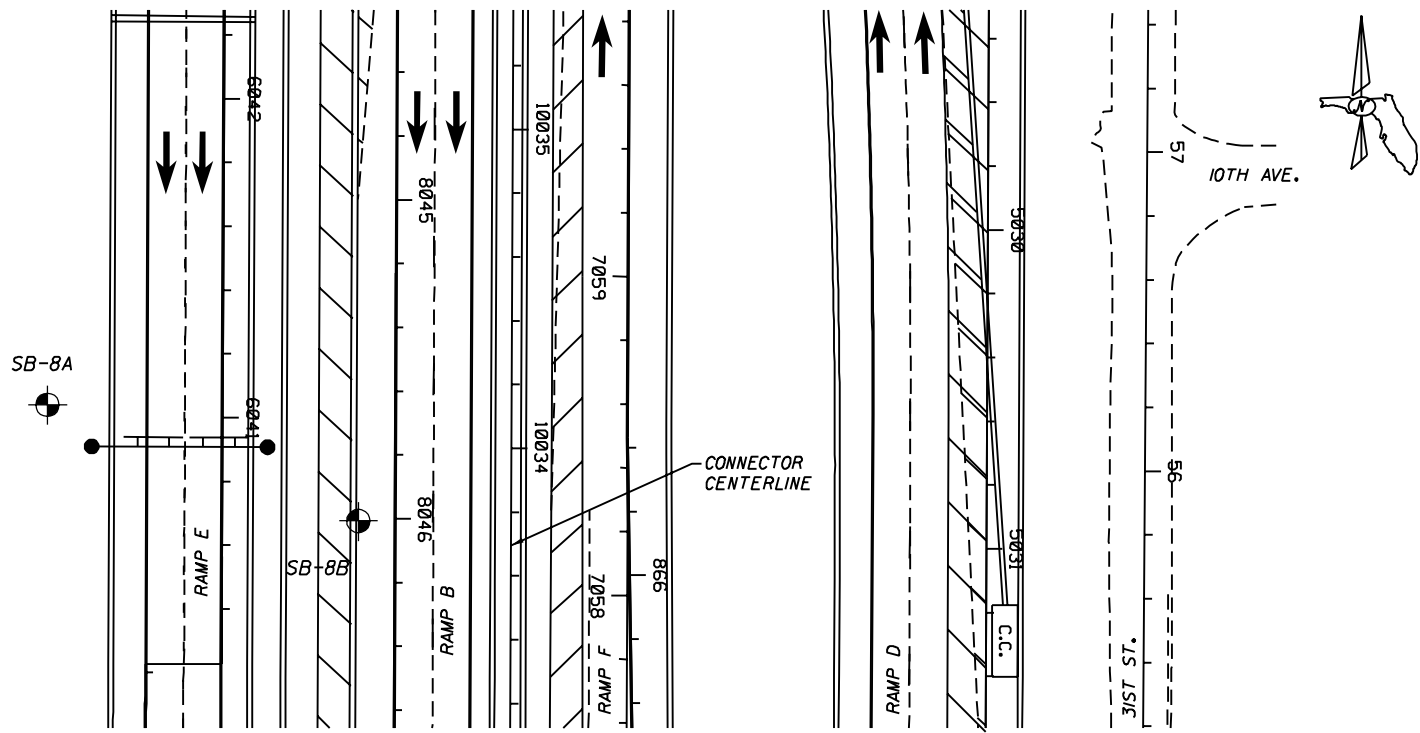
- A WITH ROOTS
- NOTES:**
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)
- N ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- WH ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- WR ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

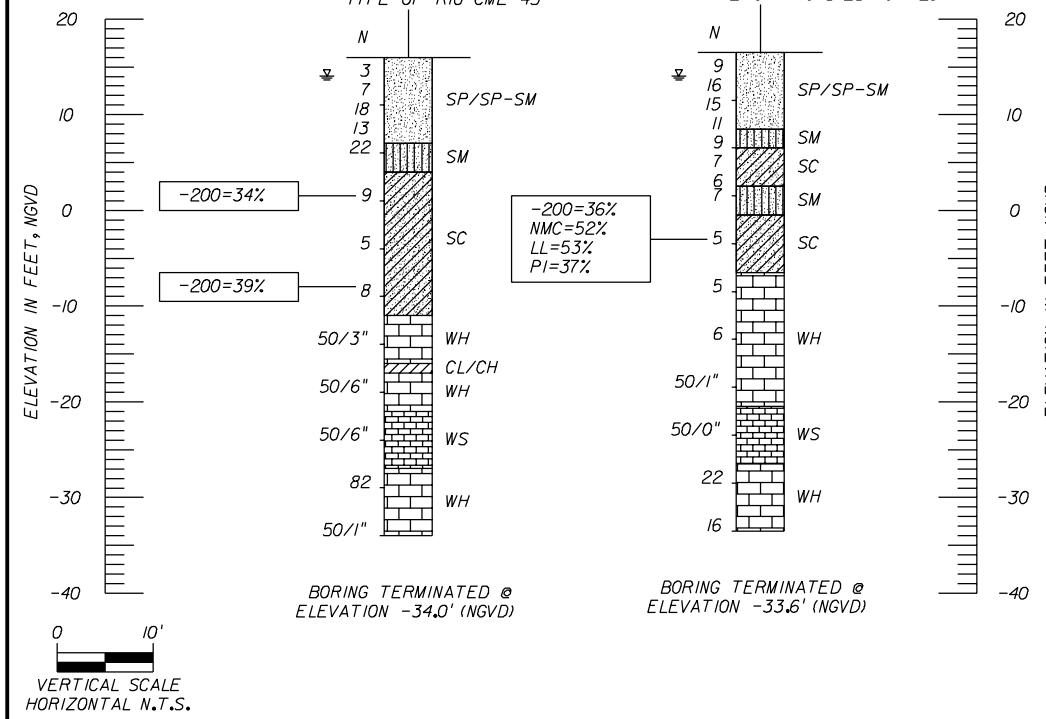
GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30



BORING NO. SB-8A*
 STATION NO. 10034+13
 OFFSET 145.5' LT.
 LATITUDE N/A
 LONGITUDE N/A
 ELEVATION 16.0'
 DATE 7/1/08
 HAMMER SAFETY
 TYPE OF RIG CME 45

BORING NO. SB-8B*
 STATION NO. 10033+77
 OFFSET 47.9' LT.
 LATITUDE 27°57'43.65"N
 LONGITUDE 82°25'34.09"W
 ELEVATION 16.4'
 DATE 7/1/08
 HAMMER SAFETY
 TYPE OF RIG DIEDRICH 25














BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-8A	0-27	3-22 82-50/1"	SP/SP-SM, SM, SC LIMESTONE, CL/CH	110	47.6	30	0	0.333	3.00
	135			72.6					
SB-8B	0-23	5-16 5-6 50/1"-50/0" 16-22	SP/SP-SM, SM, SC LIMESTONE LIMESTONE LIMESTONE	105	42.6	29	0	0.347	2.88
	23-32			135	72.6				
	32-43			135	72.6				
	43-70			135	72.6				

* BORINGS REFERENCED TO THE CONNECTOR CENTERLINE.

REVISIONS						ENGINEER OF RECORD			CORE			STRUCTURE NO. 10S695	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY: DJG 11/08			FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (6 OF 12)	
						CHECKED BY: KME 11/08			ROAD NO. SR 400			COUNTY HILLSBOROUGH	
						DESIGNED BY: KME 11/08			FINANCIAL PROJECT ID 258415-2-52-01			PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						CHECKED BY: CLK 11/08			SHEET NO. S-90				
						APPROVED BY: CHING L. KUO, Ph.D., P.E.			LAWSONS			3/27/2009 3:17:41 PM	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- NOTES:**
- A WITH ROOTS
 - WATER TABLE
 - GNA GROUNDWATER LEVEL NOT APPARENT
 - NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)
 - ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
 - ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
 - 50/6" FIFTY BLOWS FOR SIX INCHES
 - LOSS OF CIRCULATION (%)
 - RECOVERY OF CIRCULATION (%)
 - CASING USED
 - 200 FINES PASSING NO. 200 SIEVE (%)
 - NMC NATURAL MOISTURE CONTENT (%)
 - LL LIQUID LIMIT (%)
 - PI PLASTICITY INDEX (%)
 - APPROXIMATE SPT BORING LOCATION

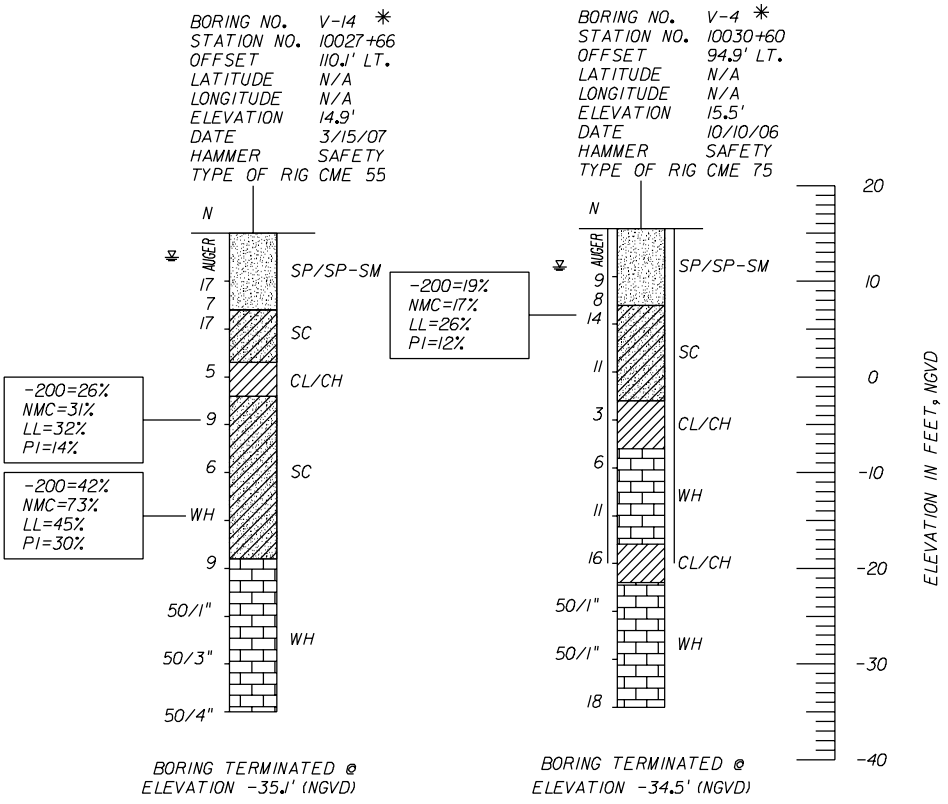
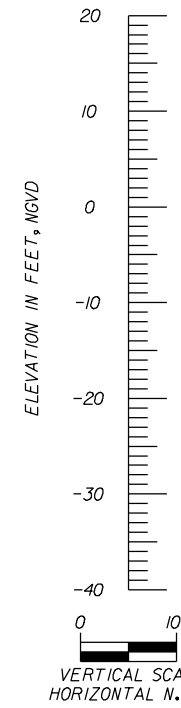
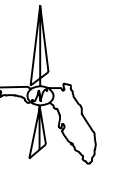
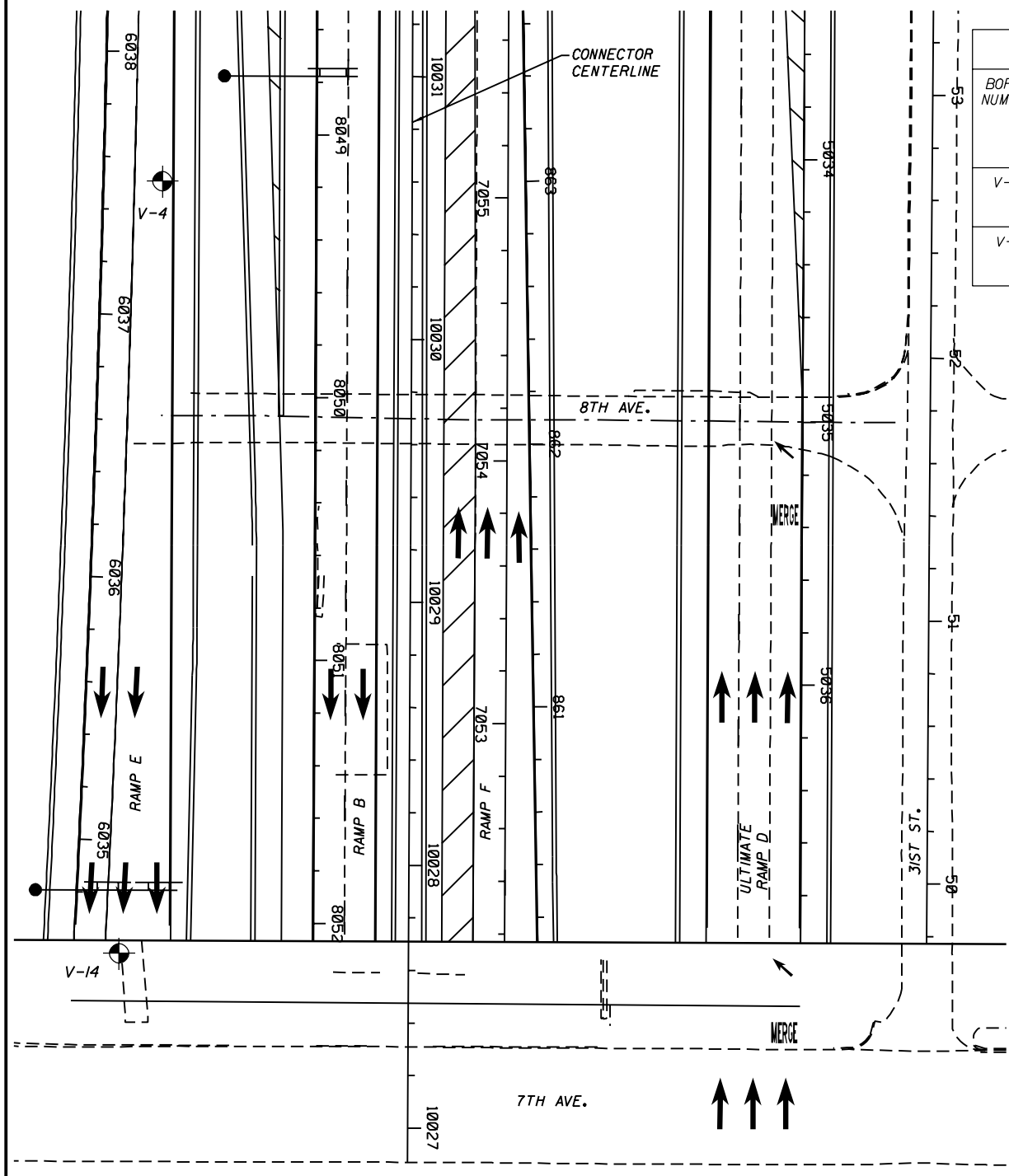
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
				V-14	0-13.5 13.5-34 34-50			7-17 WH-9 9-50/1"	SP/SP-SM, SC CL/CH, SC LIMESTONE
V-4	0-18 18-37 37-50	8-14 3-16 18-50/1"	SP/SP-SM, SC CL/CH, LIMESTONE LIMESTONE	110 120 135	47.6 57.6 72.6	30 0 0	0 1,000 10,000	0.333 1.000 1.000	3.00 1.00 1.00














* BORINGS REFERENCED TO THE CONNECTOR CENTERLINE.

REVISIONS						CORE			STRUCTURE NOS. 10S693 & 10S694		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.	
						SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	S-91	

ENGINEER OF RECORD:
 PROFESSIONAL SERVICE INDUSTRIES, INC.
 5801 BENJAMIN CENTER DR., SUITE 112
 TAMPA, FL. 33634 (813) 886-1075
 FLORIDA ENGINEERING CERTIFICATE
 OF AUTHORIZATION No. 3684
 CHING L. KUO, Ph.D., P.E.
 FLORIDA LICENSE No. 36115

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  **CHERT**
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:**
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

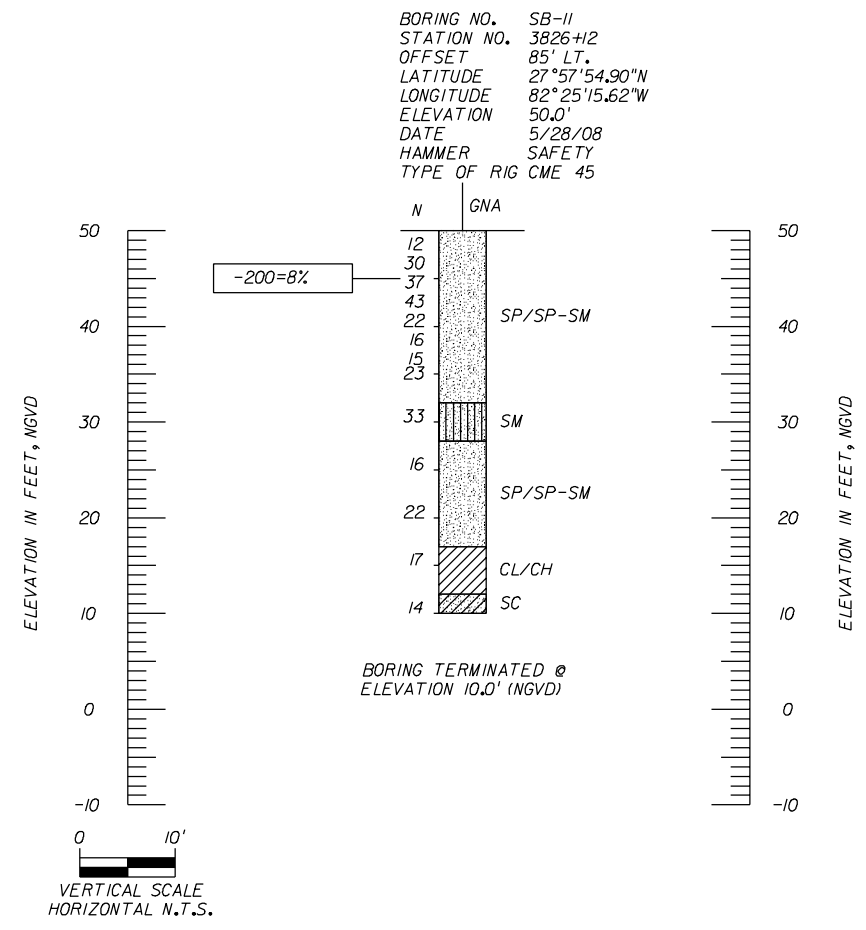
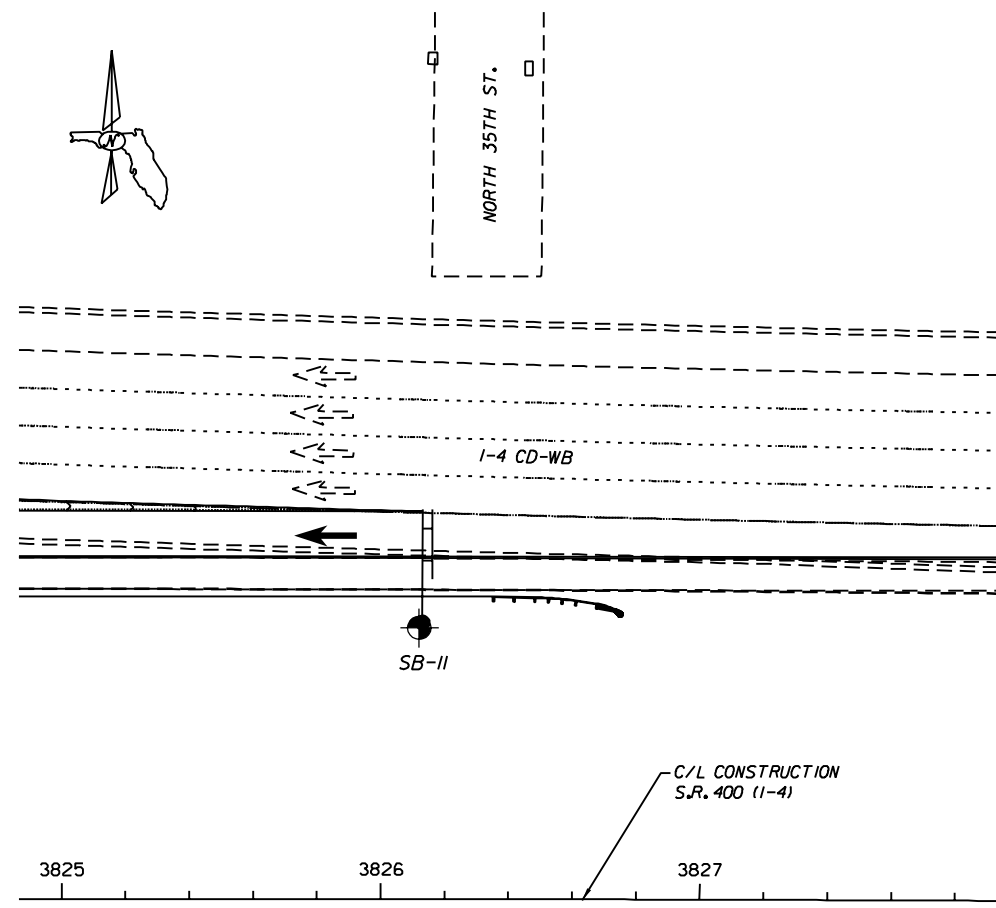
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

SOIL PARAMETERS									
BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-II	0-33	12-43	SP/SP-SM, SM	115	52.6	32	0	0.307	3.25
	33-38	17	CL/CH	125	62.6	0	2,100	1,000	1.00
	38-40	14	SC	110	47.6	30	0	0.333	3.00



NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.












CORE			STRUCTURE NO. 10S698	
FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (8 OF 12)	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	
SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
			SHEET NO.	S-92

REVISIONS						ENGINEER OF RECORD		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAMES	DATES	
						DRAWN BY	DJG	11/08
						CHECKED BY	KME	11/08
						DESIGNED BY	KME	11/08
						CHECKED BY	CLK	11/08
						APPROVED BY	CHING L. KUO, Ph.D., P.E.	

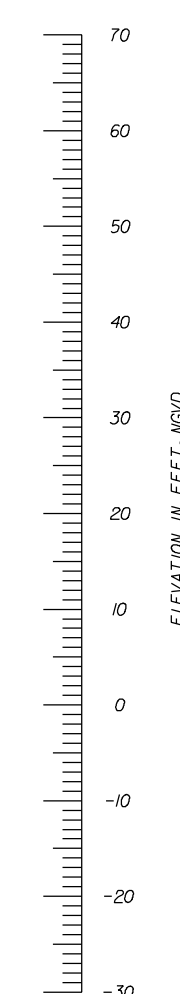
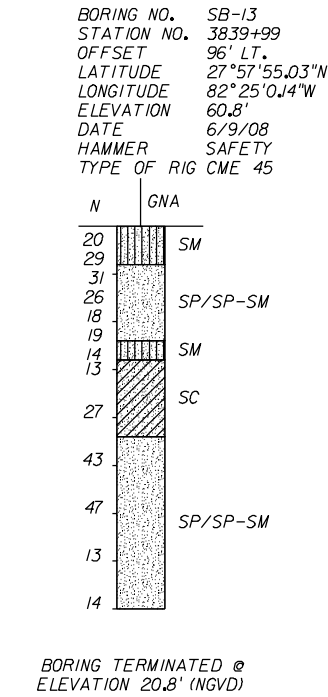
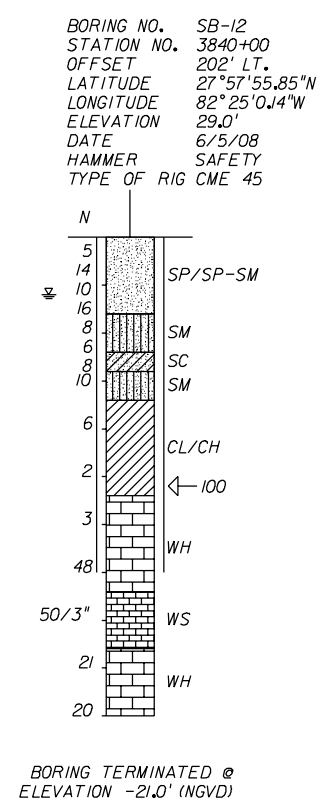
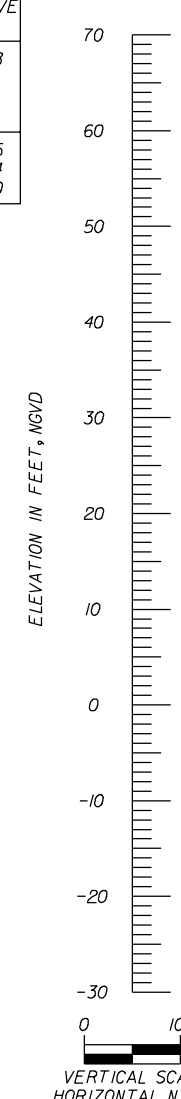
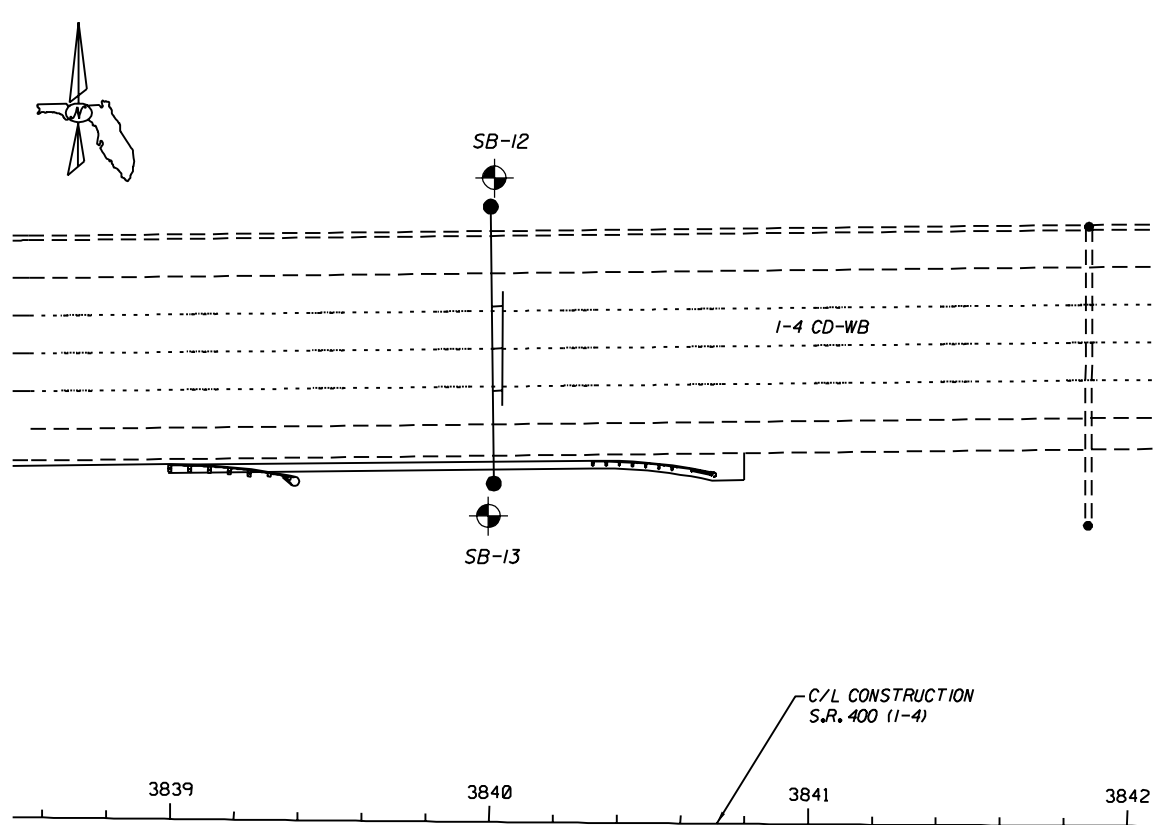
ENGINEER OF RECORD:
PROFESSIONAL SERVICE INDUSTRIES, INC.
 5801 BENJAMIN CENTER DR., SUITE 112
 TAMPA, FL 33634 (813) 886-1075
 FLORIDA ENGINEERING CERTIFICATE
 OF AUTHORIZATION No. 3684
 CHING L. KUO, Ph.D., P.E.
 FLORIDA LICENSE No. 36115

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
 -  (SM), BROWN TO DARK BROWN SILTY FINE SAND
 -  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
 -  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
 -  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
 -  (PT), DARK BROWN TO BLACK SANDY PEAT
 -  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
 -  (CL), LIGHT GRAY TO BROWN SANDY CLAY
 -  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
 -  CHERT
 -  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT
- A WITH ROOTS
- NOTES:
- WATER TABLE
 - GNA GROUNDWATER LEVEL NOT APPARENT
 - NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
 - ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
 - ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
 - 50/6" FIFTY BLOWS FOR SIX INCHES
 - LOSS OF CIRCULATION (%)
 - RECOVERY OF CIRCULATION (%)
 - CASING USED
 - 200 FINES PASSING NO. 200 SIEVE (%)
 - NMC NATURAL MOISTURE CONTENT (%)
 - LL LIQUID LIMIT (%)
 - PI PLASTICITY INDEX (%)
 - APPROXIMATE SPT BORING LOCATION

SOIL PARAMETERS									
BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-12	0-17	5-16	SP/SP-SM, SM, SC	105	42.6	29	0	0.347	2.88
	17-32	2-6	CL/CH, LIMESTONE	110	47.6	0	500	1.000	1.00
	32-43	48-50/3"	LIMESTONE	135	72.6	0	10,000	1.000	1.00
	43-50	20-21	LIMESTONE	135	72.6	0	2,500	1.000	1.00
SB-13	0-22	13-31	SM, SP/SP-SM, SC	115	52.6	32	0	0.307	3.25
	22-32	43-47	SP/SP-SM	125	62.6	34	0	0.283	3.54
	32-40	13-14	SP/SP-SM	110	47.6	30	0	0.333	3.00



NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION 1-4 EXCEPT WHERE NOTED.












ENVIRONMENTAL CLASSIFICATION	
SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)	
GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

REVISIONS						CORE			STRUCTURE NO. 10S699		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET TITLE:		
						SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (9 OF 12)		
									PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		
									SHEET NO. S-93		

ENGINEER OF RECORD:
 PROFESSIONAL SERVICE INDUSTRIES, INC.
 5801 BENJAMIN CENTER DR., SUITE 112
 TAMPA, FL 33634 (813) 886-1075
 FLORIDA ENGINEERING CERTIFICATE
 OF AUTHORIZATION No. 3684
 CHING L. KUO, Ph.D., P.E.
 FLORIDA LICENSE No. 36115

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LEGEND

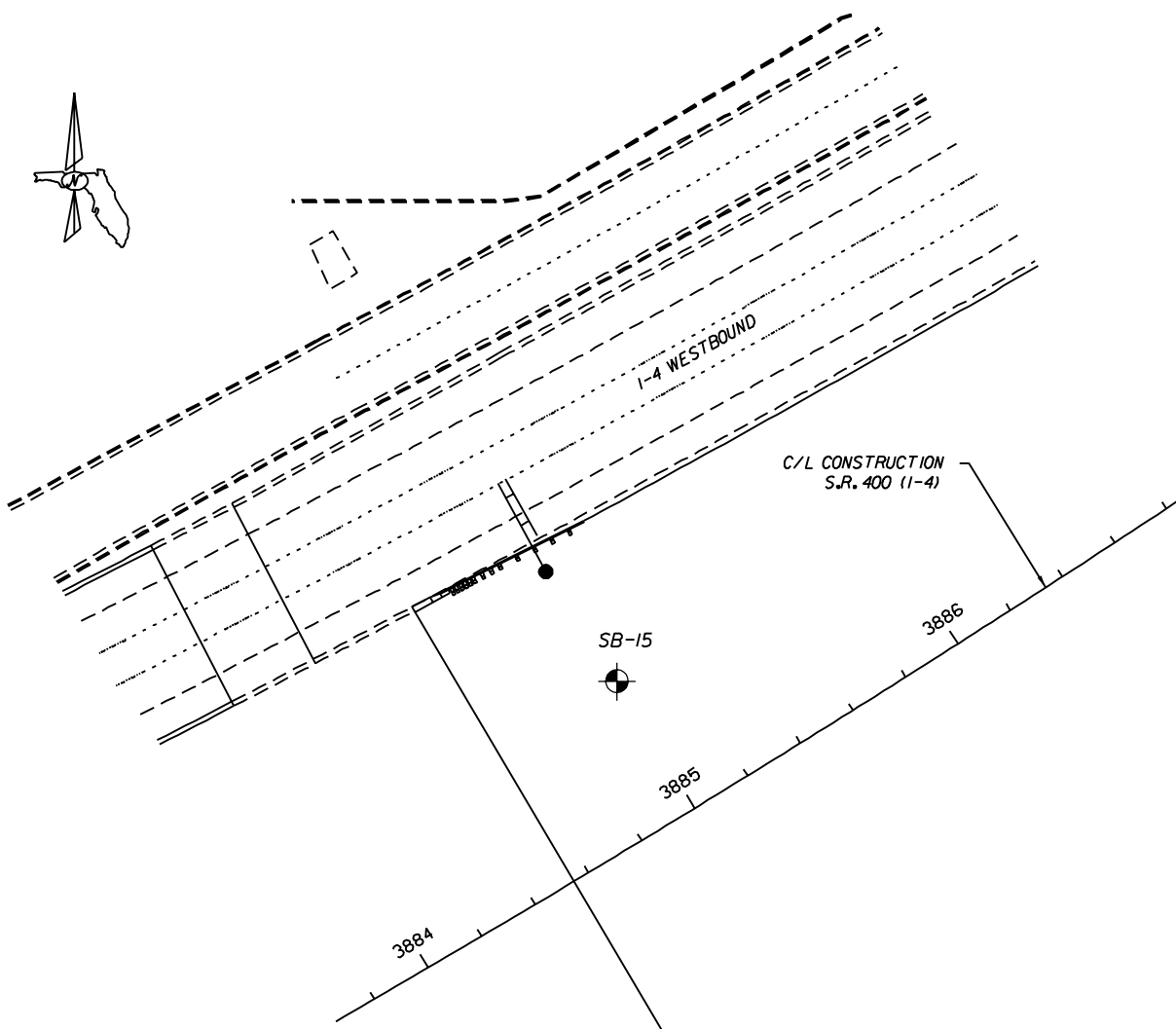
-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  (CHERT)
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:**
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

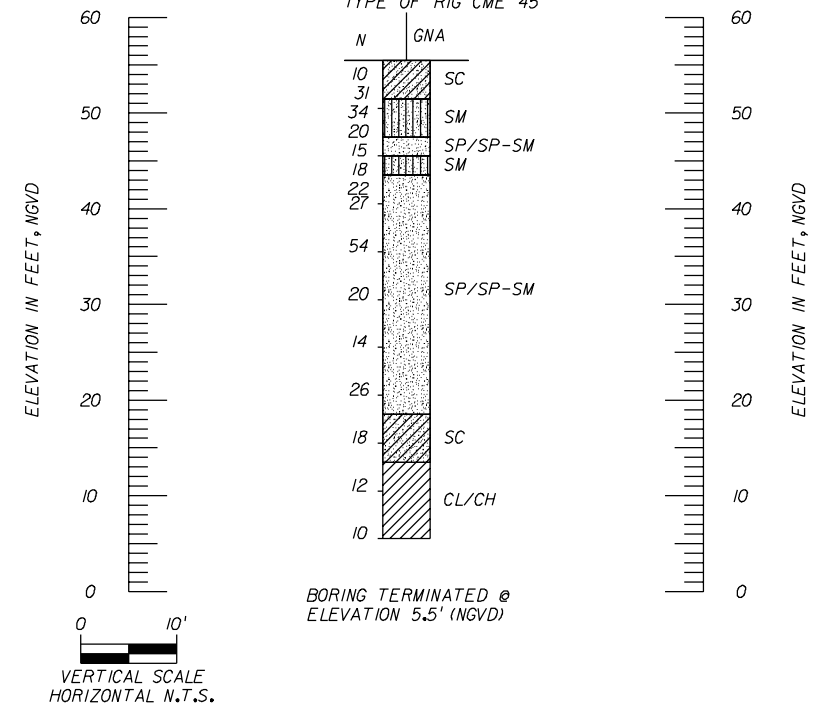
ENVIRONMENTAL CLASSIFICATION
SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-15	0-17	10-34	SC, SM, SP/SP-SM	115	52.6	32	0	0.307	3.25
	17-22	54	SP/SP-SM	125	62.6	34	0	0.283	3.54
	22-42	14-26	SP/SP-SM, SC	110	47.6	30	0	0.333	3.00
	42-50	10-12	CL/CH	120	57.6	0	1,400	1.000	1.00



BORING NO. SB-15
STATION NO. 3885+00
OFFSET 48' LT.
LATITUDE 27°58'2.23"N
LONGITUDE 82°24'12.06"W
ELEVATION 55.5'
DATE 7/10/08
HAMMER SAFETY
TYPE OF RIG CME 45



BORING TERMINATED @
ELEVATION 5.5' (NGVD)

NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.

CORE			STRUCTURE NO. 10S701	
FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (10 OF 12)	
ROAD NO. SR 400	COUNTY HILLSBOROUGH	FINANCIAL PROJECT ID 258415-2-52-01	PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
			SHEET NO. S-94	

REVISIONS						ENGINEER OF RECORD		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAMES	DATES	
						DRAWN BY	DJG	11/08
						CHECKED BY	KME	11/08
						DESIGNED BY	KME	11/08
						CHECKED BY	CLK	11/08
						APPROVED BY	CHING L. KUO, Ph.D., P.E.	

ENGINEER OF RECORD:
PROFESSIONAL SERVICE INDUSTRIES, INC.
5801 BENJAMIN CENTER DR., SUITE 112
TAMPA, FL 33634 (813) 886-1075
FLORIDA ENGINEERING CERTIFICATE
OF AUTHORIZATION No. 3684
CHING L. KUO, Ph.D., P.E.
FLORIDA LICENSE No. 36115

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SOIL PARAMETERS									
BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
WB-34	0-22	9-25	SP/SP-SM, SC LIMESTONE SM-SC	110	47.6	30	0	0.333	3.00
	22-40	15-50/3"		135	72.6	0	10,000	1.000	1.00
	40-50	25-32		115	52.6	32	0	0.307	3.25

- LEGEND**
- (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
 - (SM), BROWN TO DARK BROWN SILTY FINE SAND
 - (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
 - (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
 - (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
 - (PT), DARK BROWN TO BLACK SANDY PEAT
 - (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
 - (CL), LIGHT GRAY TO BROWN SANDY CLAY
 - (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
 - CHERT
 - (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

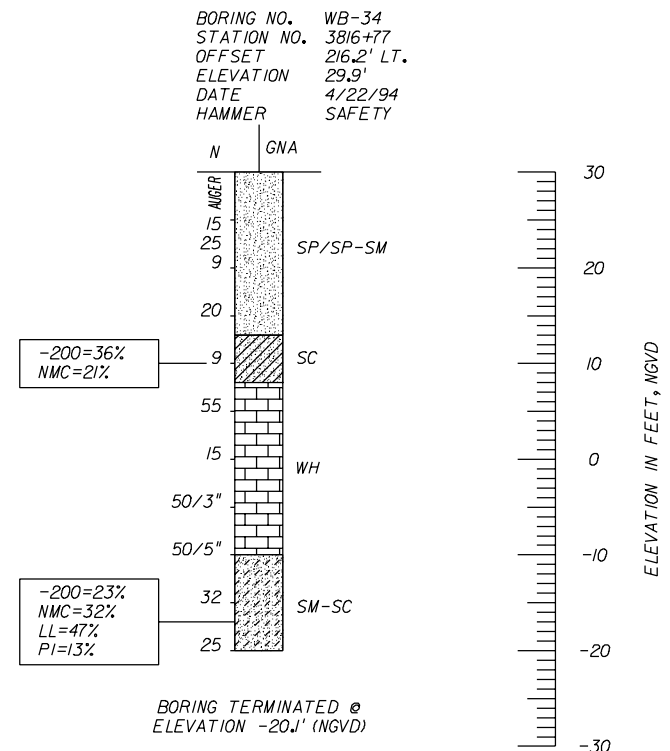
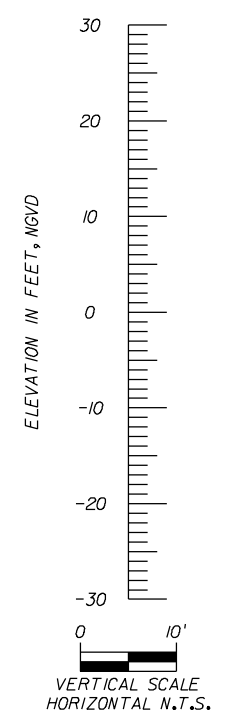
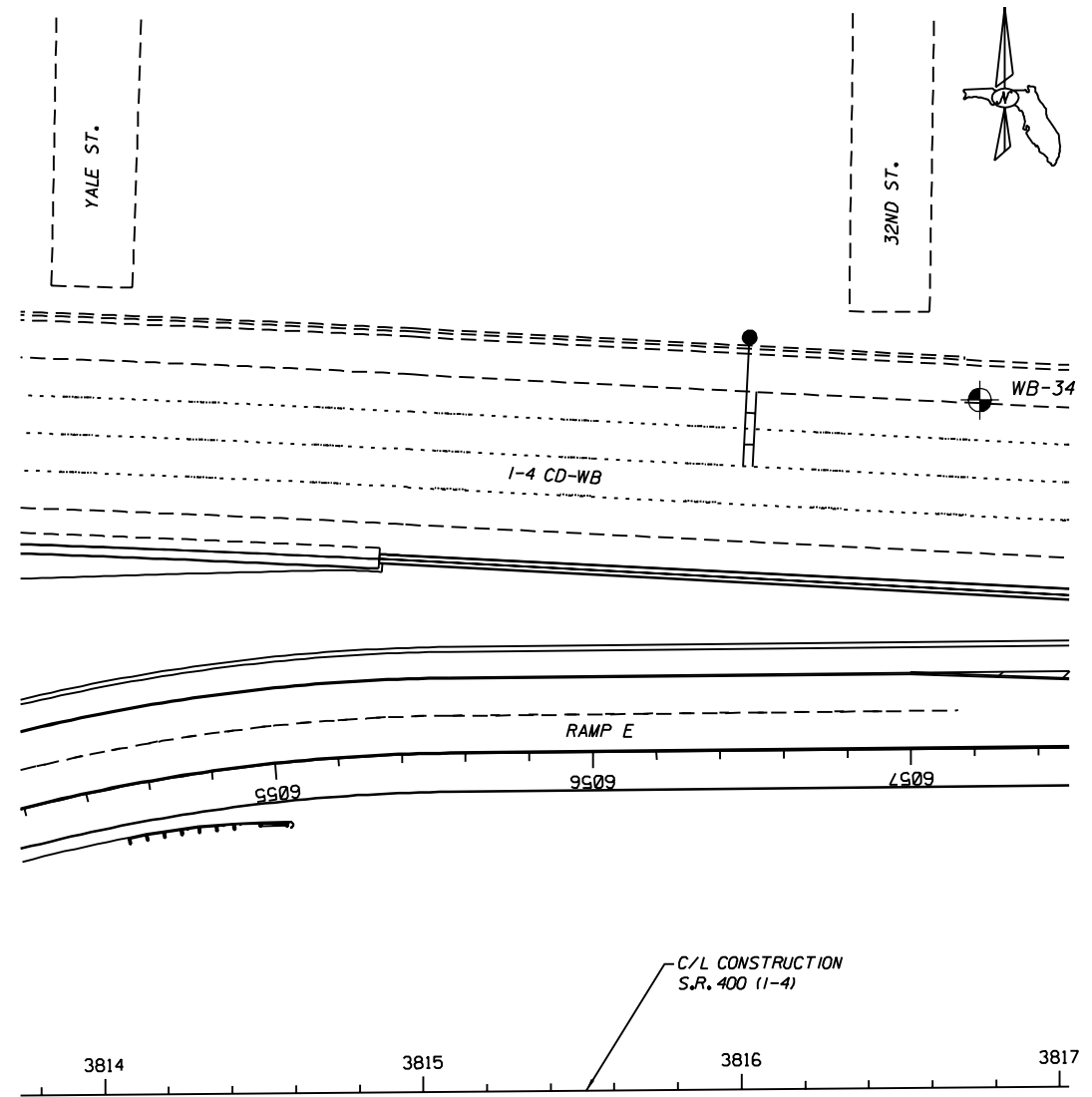
- A WITH ROOTS
- NOTES:**
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE WH INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- ON THE LEFT SIDE OF A SOIL PROFILE WR INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30














NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.

REVISIONS						ENGINEER OF RECORD			CORE			STRUCTURE NO. 10S741	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	
						DJG	PROFESSIONAL SERVICE INDUSTRIES, INC.	11/08	SR 400			REPORT OF CORE BORINGS (11 OF 12)	
						KME	5801 BENJAMIN CENTER DR., SUITE 112	11/08	HILLSBOROUGH			PROJECT NAME:	
						KME	TAMPA, FL 33634 (813) 886-1075	11/08	258415-2-52-01			I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						CLK	FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684	11/08				SHEET NO.	
						CHING L. KUO, Ph.D., P.E.	CHING L. KUO, Ph.D., P.E.					S-95	

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LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:**
- WATER TABLE
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- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
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- WR ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
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- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

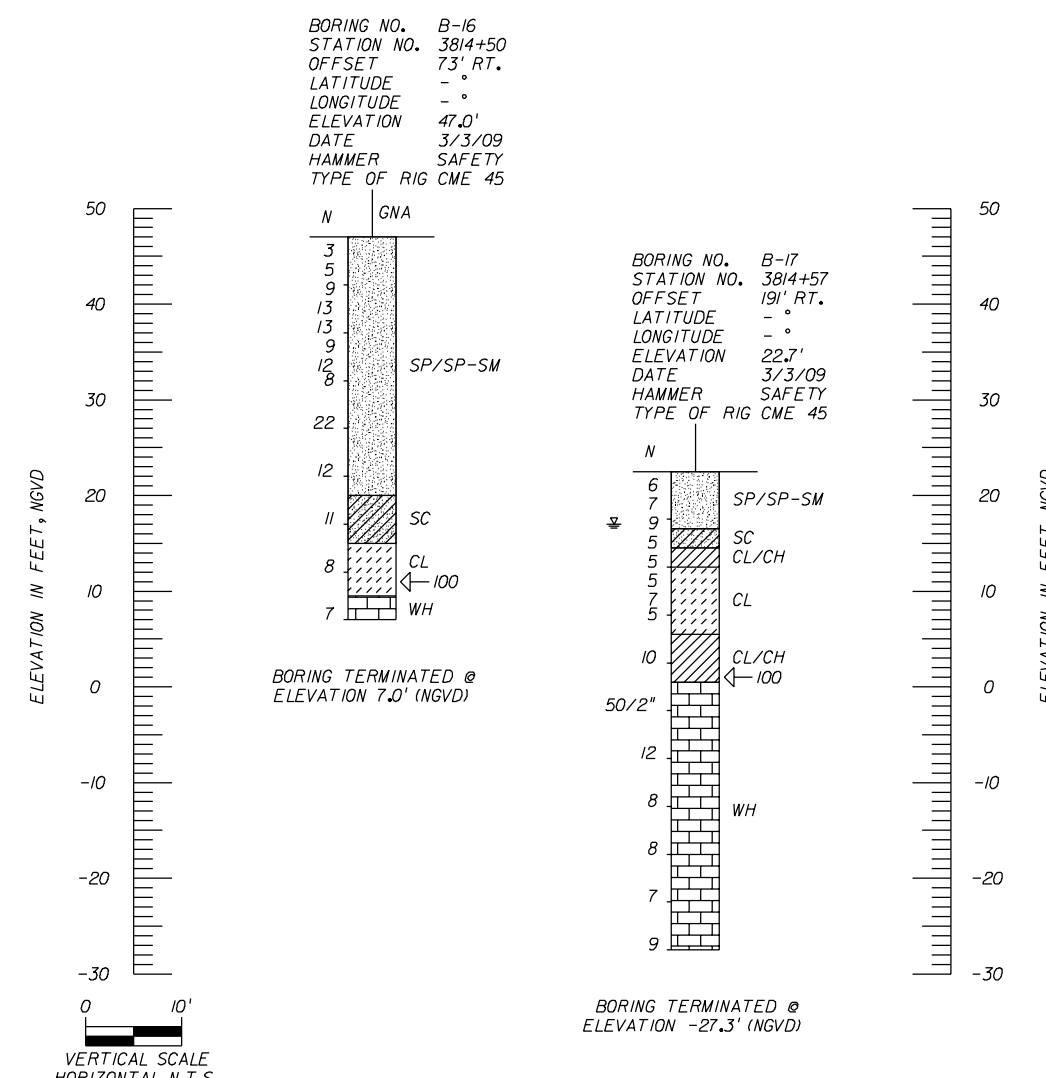
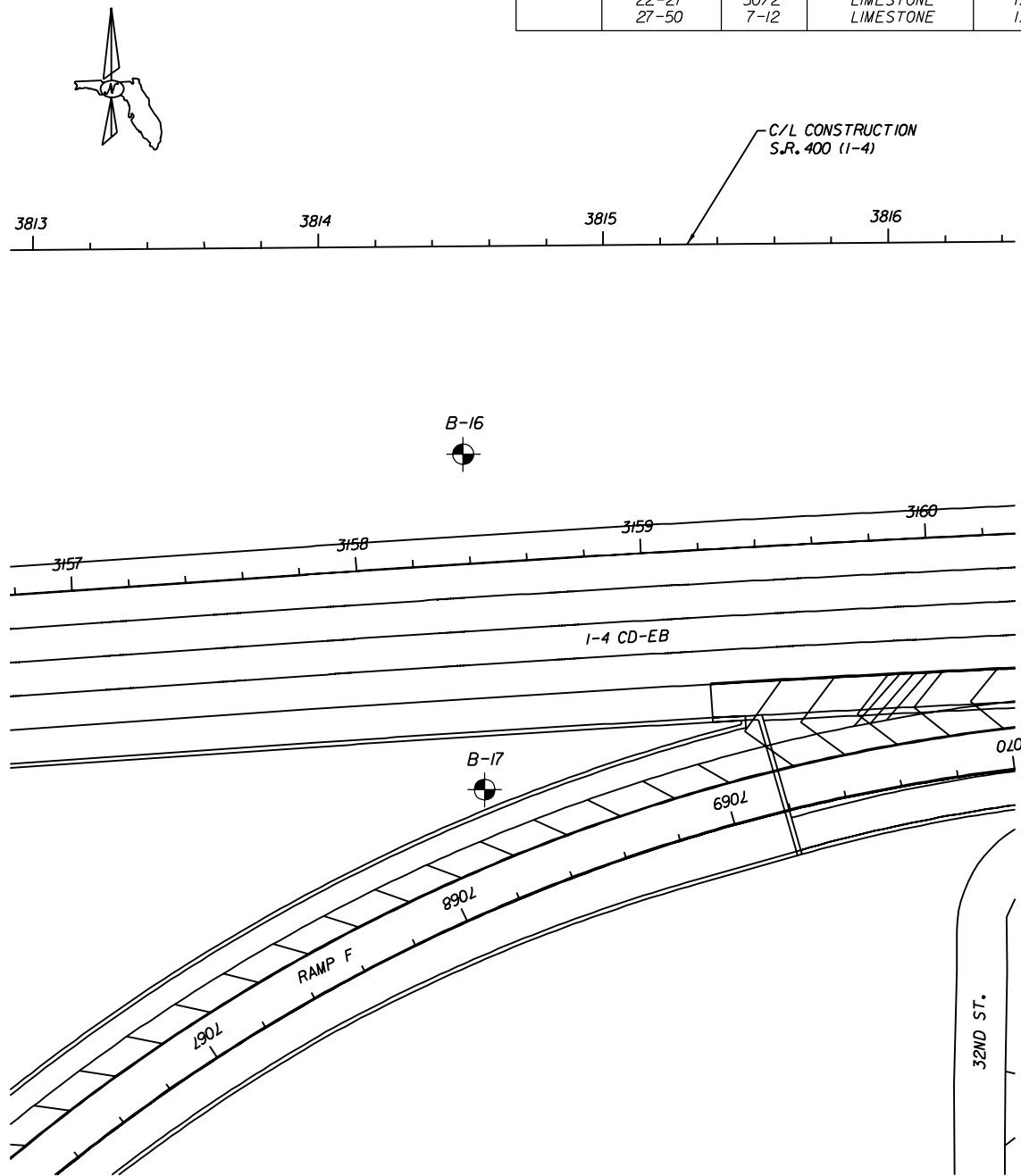
ENVIRONMENTAL CLASSIFICATION

SUBSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

SOIL PARAMETERS									
BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
B-16	0-6	3-9	SP/SP-SM	105	42.6	29	0	0.347	2.88
	6-32	8-22	SP/SP-SM, SC	110	47.6	30	0	0.333	3.00
	32-37.5	8	CL	115	52.6	0	1,000	1.000	1.00
	37.5-40	7	LIMESTONE	135	72.6	0	900	1.000	1.00
B-17	0-8	5-9	SP/SP-SM, SC	105	42.6	29	0	0.347	2.88
	8-22	5-10	CL/CH, CL	115	52.6	0	700	1.000	1.00
	22-27	50/2"	LIMESTONE	135	72.6	0	10,000	1.000	1.00
	27-50	7-12	LIMESTONE	135	72.6	0	1,100	1.000	1.00



BORING NO. B-16
 STATION NO. 3814+50
 OFFSET 73' RT.
 LATITUDE - °
 LONGITUDE - °
 ELEVATION 47.0'
 DATE 3/3/09
 HAMMER SAFETY
 TYPE OF RIG CME 45

BORING NO. B-17
 STATION NO. 3814+57
 OFFSET 191' RT.
 LATITUDE - °
 LONGITUDE - °
 ELEVATION 22.7'
 DATE 3/3/09
 HAMMER SAFETY
 TYPE OF RIG CME 45

ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION 1-4 EXCEPT WHERE NOTED.

REVISIONS						DRAWN BY			ENGINEER OF RECORD			CORE			STRUCTURE NO. 10S745		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	PROFESSIONAL SERVICE INDUSTRIES, INC.	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET TITLE:					
						DJG	11/08	5801 BENJAMIN CENTER DR., SUITE 112 TAMPA, FL 33634 (813) 886-1075 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684	SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (12 OF 12)					
						KME	11/08	CHING L. KUO, Ph.D., P.E. FLORIDA LICENSE No. 36115				PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE					
						CLK	11/08					SHEET NO. S-96					
						CHING L. KUO, Ph.D., P.E.						LAWSONS 3/27/2009 3:18:12 PM T:\Sys\Projects\25841525201\struct\MISC\B00bor\Ing\SI2.dgn					

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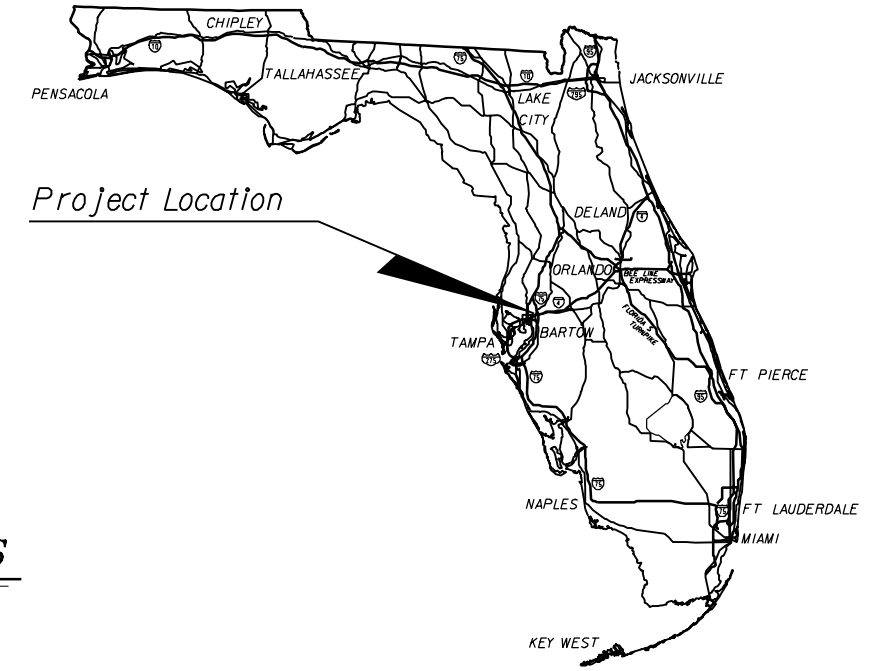
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
CONTRACT PLANS

FINANCIAL PROJECT ID 258415-2-52-01
 (CORE)
 (FEDERAL FUNDS)
 HILLSBOROUGH COUNTY (10190)
 STATE ROAD NO.400 (I-4)
 I-4 / LEE ROY SELMON EXPRESSWAY INTERCHANGE
 (NORTH OF 7th AVE.)

INTELLIGENT TRANSPORTATION SYSTEMS PLANS

INDEX OF INTELLIGENT TRANSPORTATION SYSTEMS PLANS

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IT-1	KEY SHEET
IT-2 THRU IT-3	TABULATION OF QUANTITIES
IT-4	GENERAL NOTES
IT-5	PROJECT LAYOUT SHEET
IT-6 THRU IT-23	ITS PLAN SHEETS
IT-24 THRU IT-26	DEVICE INSTALLATION AND TYPICAL DETAILS
IT-27	FIBER SPLICING PLAN
IT-28 THRU IT-36	FO SPLICING DETAILS
IT-37 THRU IT-42	CROSSECTIONS
IT-43 THRU IT-45	DOWNTOWN MASTER HUB DETAILS
IT-46	POLE DATA SHEET
IT-47 THRU IT-50	ELECTRICAL DETAILS
IT-51 THRU IT-63	DMS TRUSS SIGN STRUCTURES
IT-64 THRU IT-65	CCTV AND MVDS STRUCTURES AND FOUNDATIONS
IT-66 THRU IT-70	REPORT OF CORE BORINGS



INTELLIGENT TRANSPORTATION SYSTEMS SHOP DRAWINGS
 TO BE SUBMITTED TO:

B. RON PATI, P.E.
 225 SOUTH WESTMONTE DR,
 SUITE # 1110
 ALTAMONTE SPRINGS, FL. 32714
 PH : (407) 551-3000
 FAX: (407) 551-3010

PLANS PREPARED BY

TELVENT

TELVENT FARRADYNE, INC
 225 SOUTH WESTMONTE DR,
 SUITE 1110
 ALTAMONTE SPRINGS, FL. 32714
 (407) 551-3000
 CERT. OF AUTH. NO. 27128
 VENDOR NUMBER: F521366064004
 CONTRACT NUMBER: C-5068

NOTE: THE SCALE OF THESE PLANS MAY
 HAVE CHANGED DUE TO REPRODUCTION.

THIS PROJECT TO BE LET TO
 CONTRACT WITH FPID 258415-1-52-01.

FDOT PROJECT MANAGER: ADAM S. PEREZ, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

ITS PLANS
 ENGINEER OF RECORD: B.R. PATI, P.E.

P.E. NO.: 44097

FISCAL YEAR	SHEET NO.
10	IT-1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET	
			IT-6		IT-7		IT-8		IT-9		IT-10		IT-11		IT-12		IT-13		IT-14		IT-15		PLAN	FINAL	PLAN	FINAL		
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
555-1-1	DIRECTIONAL BORE (HDPE CONDUIT 2")	LF																										
555-1-1	DIRECTIONAL BORE (HDPE CONDUIT 4")	LF							240						50			101		73						464		
641-2-12	PRESTRESSED CONCRETE POLE (12' TYPE P-11 POLE)	EA																			1						1	
685-106	SYSTEM AUXILIARIES, F&I, UPS	EA																										
737-70-1	UTILITY LOCATE, UG	EA																			10						10	
780-1-12	ITS ELECTRICAL POWER, F&I, SERVICE WIRE	LF												1775							1130						2905	
780-1-13	ITS ELECTRICAL POWER, F&I, SERVICE DISC	EA												1							1						2	
781-11-222	ITS DMS, F&I, LED FULLMATRIX, FULLSPAN, 41'-60'	EA												1													1	
781-11-223	ITS DMS, F&I, LED FULLMATRIX, FULLSPAN, 61'-80'	EA																			1						1	
781-19-225	ITS DMS, LED FULLMATRIX, FULLSPAN, 101'-120'	EA																										
782-1-11	ITS CCTV CAMERA, F&I, DOME ENCL-PRESS	EA																										
783-1-121	ITS FIBER OPTIC CABLE, F&I, UG, 2-12	LF				386				100					920						510						1916	
783-1-123	ITS FIBER OPTIC CABLE, F&I, UG, 49-96	LF				3029				3087					2499		2274		1496								12385	
783-1-600	ITS FIBER OPTIC CABLE, REMOVE	LF				572				803					781						715						2871	
783-2-31	ITS FIBER OPTIC CONNECTION, SPLICE	EA				88				16					20						72						196	
783-2-32	ITS FIBER OPTIC CONNECTION, TERM (CONNECTORS)	EA													12						12						24	
783-3-11	ITS FIBER OPTIC CONN HDWR, SPL ENCL	EA				3				1					1						1						6	
783-3-12	ITS FIBER OPTIC CONN HDWR, SPL TRAY (12x)	EA				8				2					3						6						20	
783-3-12	ITS FIBER OPTIC CONN HDWR, SPL TRAY (72x)	EA																										
783-3-13	ITS FIBER OPTIC CONN HDWR (JUMPERS- SC TO LC)	EA													4						4						8	
783-3-13	ITS FIBER OPTIC CONN HDWR (JUMPERS- RJ45 TO RJ45)	EA													2						2						4	
783-3-14	ITS BUFFER FAN OUT KIT (12x)	EA													1						1						2	
783-3-14	ITS BUFFER FAN OUT KIT (72x)	EA																										
783-3-16	ITS FO CONNECT. H/W, F&I, FLD, PATCH P(12 PORT)	EA													1						1						2	
783-3-16	ITS FO CONNECT. H/W, F&I, FLD, PATCH P(72 PORT)	EA																										
783-4-111	ITS CONDUIT, F&I, ABOVEGROUND (2" RGS)	LF													120						120						240	
783-4-111	ITS CONDUIT, F&I, ABOVEGROUND (2" FLEX)	LF													20						20						40	
783-4-112	ITS CONDUIT, F&I, UNDERGROUND (4")	LF				673				539					533		615		172								2532	
783-4-112	ITS CONDUIT, F&I, UNDERGROUND (2")	LF													170						620						790	
783-4-112	ITS CONDUIT, F&I, UNDERGROUND (1")	LF				2019				2337					1749		2148		735								8988	
783-4-113	ITS CONDUIT, F&I, UNDERPAVEMENT (2")	LF				186																					186	
783-4-160	ITS CONDUIT, REMOVE & DISPOSE	LF				572				803					781						715						2871	
783-5-1	ITS PULL BOX FOR FIBER OPTIC CABLE, F&I	EA				1				1					2					1	2						8	
783-5-4	ITS PULL BOX FOR FOC, RELOCATE	EA				2				1					1					2							6	
783-6-1	ITS SPLICE BOX FOR FIBER OPTIC CABL, F&I	EA				2				1					1					1							5	
783-6-6	ITS SPLICE BOX FOR FOC, REM & DISPOSE	EA				1				1					1					1							4	
783-7-1	ITS PULL & JUNCTION BOX, F&I (ELECTRICAL)	EA													1					2							3	
783-7-1	ITS PULL & JUNCTION BOX, F&I (JUNCTION BOX)	EA													4												4	
784-1-1	ITS MANAGED FIELD ETHERNET SWITCH, F&I	EA													1						1						2	
784-2-1	MEDIA CONVERTOR, F&I	EA																										
784-3-11	ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER	EA																										
784-5-51	ITS MANAGER ETHERNET HUB SWITCH, ADJ/MOD, LH	EA																										
785-1-12	ITS POLE, F&I, STEEL W/ LOWERING DEVICE (80')	EA																										
785-1-14	ITS POLE, F&I, STEEL W/O LOWERING DEVICE (65')	EA																										
785-2-141	ITS CABINET, F&I, TYPE 336S W/ SUNSHLDS. (POLEMOUNT)	EA													1						1						2	
785-2-400	ITS CABINET, RELOCATE & INSTALL	EA																										
786-1-11	ITS VEHICLE DETECTION SYS.F&I, MICROWAVE	EA													1						1						2	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TELVENT
Cert. of Auth.
No. 27128

TELVENT FARRADYNE INC.
225 South Westmonte Dr
Suite # 1110
Altamonte Springs, FL 32714
Ph. (407) 551-3000
Fax (407) 551-3010
B.R. Patl, P.E. No. 44097

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

TABULATION OF QUANTITIES	SHEET NO. IT-2
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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET	
			IT-16		IT-17		IT-18		IT-19		IT-20		IT-21		IT-22		IT-23		IT-43		PLAN	FINAL	PLAN	FINAL				
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL								
555-1-1	DIRECTIONAL BORE (HDPE CONDUIT 2")	LF													218								218					
555-1-1	DIRECTIONAL BORE (HDPE CONDUIT 4")	LF													170								280			218		
641-2-12	PRESTRESSED CONCRETE POLE (12' TYPE P-11 POLE)	EA								1					1								3			218		218
685-106	SYSTEM AUXILIARIES, F&I, UPS	EA													1								2					2
737-70-1	UTILITY LOCATE, UG	EA								10					5								20					30
780-1-12	ITS ELECTRICAL POWER, F&I, SERVICE WIRE	LF								100					100								756			218		3661
780-1-13	ITS ELECTRICAL POWER, F&I, SERVICE DISC	EA								1					1								3					5
781-11-222	ITS DMS, F&I, LED FULLMATRIX, FULLSPAN, 41'-60'	EA																										1
781-11-223	ITS DMS, F&I, LED FULLMATRIX, FULLSPAN, 61'-80'	EA																										1
781-19-225	ITS DMS, LED FULLMATRIX, FULLSPAN, 101'-120'	EA								1															1			1
782-1-11	ITS CCTV CAMERA, F&I, DOME ENCL-PRESS	EA																										1
783-1-121	ITS FIBER OPTIC CABLE, F&I, UG, 2-12	LF								773					393								2104			218		4020
783-1-123	ITS FIBER OPTIC CABLE, F&I, UG, 49-96	LF													230								20688			218		33073
783-1-600	ITS FIBER OPTIC CABLE, REMOVE	LF																										2871
783-2-31	ITS FIBER OPTIC CONNECTION, SPLICE	EA								2					4								34			218		230
783-2-32	ITS FIBER OPTIC CONNECTION, TERM (CONNECTORS)	EA													12								168			218		192
783-3-11	ITS FIBER OPTIC CONN HDWR, SPL ENCL	EA													1								3					9
783-3-12	ITS FIBER OPTIC CONN HDWR, SPL TRAY (12x)	EA								1					2								6					26
783-3-12	ITS FIBER OPTIC CONN HDWR, SPL TRAY (72x)	EA																					2					2
783-3-13	ITS FIBER OPTIC CONN HDWR (JUMPERS- SC TO LC)	EA								8					4								40			218		48
783-3-13	ITS FIBER OPTIC CONN HDWR (JUMPERS- RJ45 TO RJ45)	EA								2					2								5					9
783-3-14	ITS BUFFER FAN OUT KIT (12x)	EA								2					1								4					6
783-3-14	ITS BUFFER FAN OUT KIT (72x)	EA																					2					2
783-3-16	ITS FO CONNECT. H/W, F&I, FLD, PATCH P(12 PORT)	EA								2					1								4					6
783-3-16	ITS FO CONNECT. H/W, F&I, FLD, PATCH P(72 PORT)	EA																					2					2
783-4-111	ITS CONDUIT, F&I, ABOVEGROUND (2" RGS)	LF								220					45								315			218		555
783-4-111	ITS CONDUIT, F&I, ABOVEGROUND (2" FLEX)	LF								20													20					60
783-4-112	ITS CONDUIT, F&I, UNDERGROUND (4")	LF																					1501			218		4033
783-4-112	ITS CONDUIT, F&I, UNDERGROUND (2")	LF								573					218								1631			218		2421
783-4-112	ITS CONDUIT, F&I, UNDERGROUND (1")	LF																					5343			218		14331
783-4-113	ITS CONDUIT, F&I, UNDERPAVEMENT (2")	LF													195													186
783-4-160	ITS CONDUIT, REMOVE & DISPOSE	LF																										2871
783-5-1	ITS PULL BOX FOR FIBER OPTIC CABLE, F&I	EA								2					2								7					15
783-5-4	ITS PULL BOX FOR FOC, RELOCATE	EA																					6					6
783-6-1	ITS SPLICE BOX FOR FIBER OPTIC CABL, F&I	EA													1								3					8
783-6-6	ITS SPLICE BOX FOR FOC, REM & DISPOSE	EA																										4
783-7-1	ITS PULL & JUNCTION BOX, F&I (ELECTRICAL)	EA								1					1								3					6
783-7-1	ITS PULL & JUNCTION BOX, F&I (JUNCTION BOX)	EA																										4
784-1-1	ITS MANAGED FIELD ETHERNET SWITCH, F&I	EA													1								2					4
784-2-1	MEDIA CONVERTOR, F&I	EA								2													2					2
784-3-11	ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER	EA																					1					1
784-5-51	ITS MANAGER ETHERNET HUB SWITCH, ADJ/MOD, LH	EA																										1
785-1-12	ITS POLE, F&I, STEEL W/ LOWERING DEVICE (80')	EA																					1					1
785-1-14	ITS POLE, F&I, STEEL W/O LOWERING DEVICE (65')	EA													1								1					1
785-2-141	ITS CABINET, F&I, TYPE 336S W/ SUNSHLDS. (POLEMOUNT)	EA													1								2					4
785-2-400	ITS CABINET, RELOCATE & INSTALL	EA								1													1					1
786-1-11	ITS VEHICLE DETECTION SYS, F&I, MICROWAVE	EA													2								2					4

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<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th><th>BY</th><th>DESCRIPTION</th><th>DATE</th><th>BY</th><th>DESCRIPTION</th></tr> </thead> <tbody> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>															DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<p>TELVENT Cert. of Auth. No. 2712B</p>															<p>TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax (407) 551-3010 B.R. Patl, P.E. No. 44097</p>					<p>CORE</p>															<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p>					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ROAD NO.</th><th>COUNTY</th><th>FINANCIAL PROJECT ID</th></tr> </thead> <tbody> <tr> <td>SR 400</td><td>HILLSBOROUGH</td><td>258415-2-52-01</td></tr> </tbody> </table>					ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	HILLSBOROUGH	258415-2-52-01	<p>TABULATION OF QUANTITIES</p>															<p>SHEET NO. IT-3</p>				
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																																																																																												
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																																																																																															
SR 400	HILLSBOROUGH	258415-2-52-01																																																																																															

GENERAL NOTES

1. FOR ADDITIONAL INTELLIGENT TRANSPORTATION SYSTEMS (ITS) PLANS GENERAL AND PAY ITEM NOTES, SEE THE ITS PLANS ASSOCIATED WITH PROJECT FPID 258415-1-52-01. ALL GENERAL NOTES AND PAY ITEM NOTES PREPARED AS PART OF FPID 258415-1-52-01 AS APPLICABLE TO THIS PROJECT (FPID 258415-2-52-01) MUST BE ADHERED TO FOR A SEAMLESS INSTALLATION AND INTEGRATION OF THE ITS SYSTEMS.

2. FOR ELECTRICAL SERVICE AND POWER SOURCES FOR ITS DEVICES, SEE SEPARATE LIGHTING PLAN.

3. PAY ITEM NOTES MENTIONED ON THIS SHEET ARE APPLICABLE TO THIS PROJECT FPID 258415-2-52-01 ONLY.

4. THE ALIGNMENT OF THE RELOCATED 72 STR CABLES (SHEETS IT-7, IT-9, IT-11, IT-12 AND IT-13) IN 4" OUTERDUCT HAS BEEN DETERMINED IN CONSIDERATION OF THE CONSTRUCTION IMPACT DUE TO RAMP B AND TRAFFIC CONTROL PLAN (TCP) LANE SHIFTS REQUIRED. CONTRACTOR TO COORDINATE WITH THE ROADWAY/ TRAFFIC CONTROL PLAN DESIGNERS FOR ANY ADJUSTMENT NEEDED TO THE ITS BACKBONE CONDUIT ALIGNMENT TO AVOID CONSTRUCTION IMPACT AND DUE EARTHWORK RE-GRADING AS SHOWN IN TRAFFIC CONTROL PLANS.

PAY ITEM NOTES

1. 780-1-13: PAY ITEM SHALL INCLUDE THE COST OF STEP DOWN TRANSFORMER.

2. 781-19-225: IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER DISMANTLING, TRANSPORTATION (FROM @ 1-4 STA. 3841+86.7 TO @ 1-4 STA. 3857+76) AND INSTALLATION, AND FUNCTIONALITY OF OPERATION OF THE EXISTING DMS SIGN (RELOCATED DMS #6) AS STIPULATED WITHIN THE MANUFACTURER'S SPECIFICATION. THE MANUFACTURER'S REPRESENTATIVE WILL BE ABLE TO PROVIDE TECHNICAL ASSISTANCE IN THE AREAS OF SIGN-TO-STRUCTURE INSTALLATION AND SIGN-TO-FIELD DEVICE CABINET CABLING. THE MANUFACTURER SHALL ALSO PROVIDE TORQUE SPECIFICATIONS FOR THE ATTACHMENT BOLTS.

A POWER-UP TEST WILL BE PERFORMED BY THE CONTRACTOR UPON DELIVERY TO ENSURE THAT ALL COMPONENTS OPERATE SATISFACTORY, AS WITNESSED AND ACCEPTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL POWER AND CABLING REQUIRED TO PERFORM THE POWER-UP TEST. ALL SIGN COMPONENTS BECOME THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE SIGN IS INSTALLED AND ACCEPTED IN THE FIELD BY THE ENGINEER.

DMS TO DMS STRUCTURE ATTACHMENT HARDWARE IS THE RESPONSIBILITY OF THE CONTRACTOR. SUBSEQUENT TO INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR A POST-INSTALLATION TEST. THE POST-INSTALLATION TEST SHALL ENSURE THE DMS HAS BEEN INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY CABLING FOR POWER AND COMMUNICATIONS FOR COMPLETE AND ACCEPTABLE INSTALLATION BETWEEN THE DMS FIELD CABINET. POWER SERVICE CABLE SHALL BE APPROPRIATELY SIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR TESTING THE COMMUNICATIONS CABLING TO ENSURE NO SIGNIFICANT SIGNAL DETERIORATION. THE CONTRACTOR SHALL ALSO BE REQUIRED TO PERFORM THE POST-INSTALLATION TEST WITHIN 72 HOURS OF DMS INSTALLATION. POST-INSTALLATION TESTING SHALL BE PERFORMED UNDER THE ENGINEER'S SUPERVISION.

3. 783-5-4: PAY ITEM SHALL BE USED FOR REMOVAL AND DISPOSAL OF FIBER OPTIC PULLBOX.

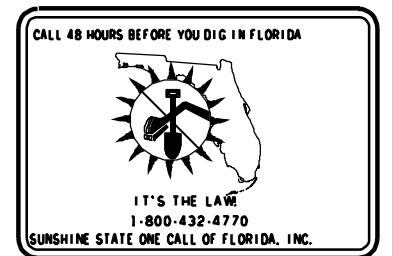
4. 784-2-1: PAY ITEM SHALL BE USED FOR MEDIA CONVERTER (SEE TECHNICAL SPECIAL PROVISIONS FOR DETAILS).

5. 784-5-51: THIS PAY ITEM SHALL INCLUDE THE INTEGRATION OF ALL NEW DEVICES DESIGNED FOR THE CROSSTOWN CONNECTOR WITH THE EXISTING MASTER HUB SWITCH LOCATED IN THE DOWNTOWN MASTER HUB AT NEBRASKA AVENUE AS SHOWN IN PLANS. (ALSO SEE TECHNICAL SPECIAL PROVISIONS)

6. 785-2-141: PAY ITEM SHALL INCLUDE POLE MOUNTED ITS CABINET (TYPE 336S WITH SUNSHIELDS).

UTILITY CONTACTS

AS SHOWN ON ROADWAY PLANS.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TELVENT
Cert. of Auth.
No. 27128

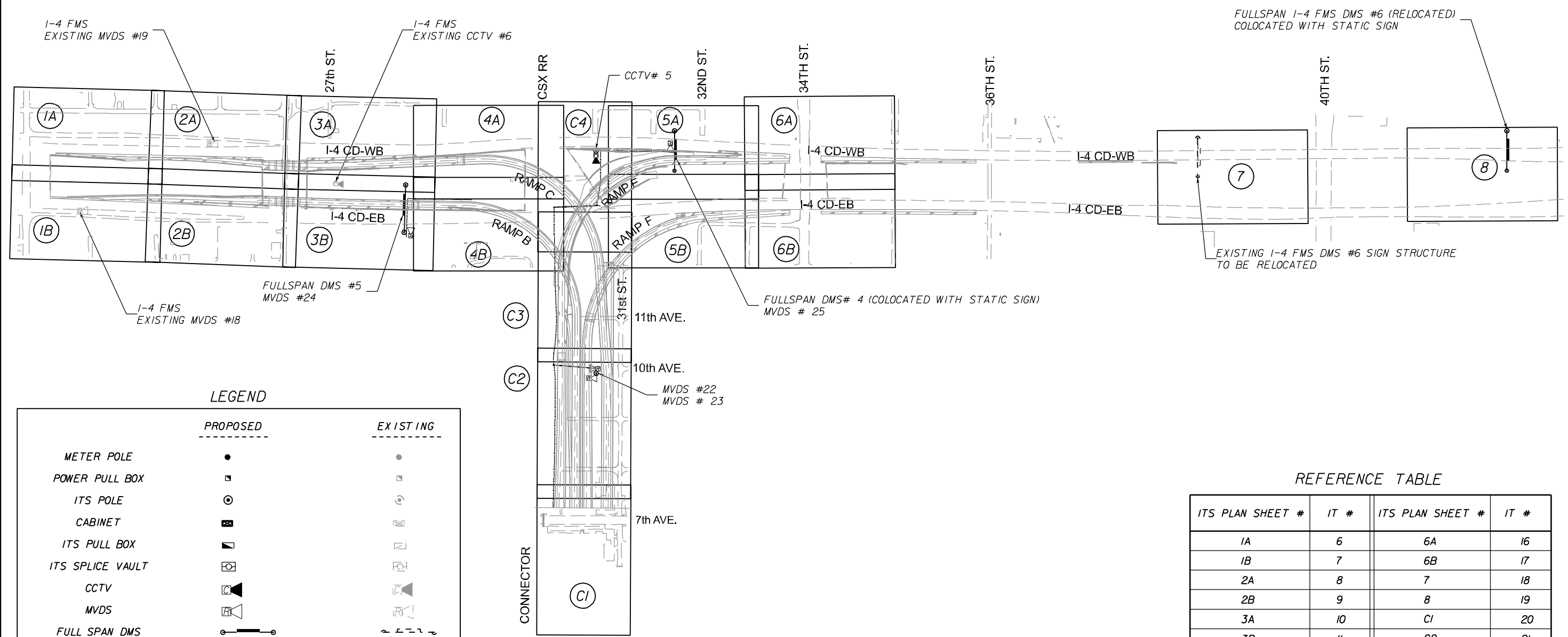
TELVENT FARRADYNE INC.
225 South Westmonte Dr
Suite # 1110
Altamonte Springs, FL 32714
Ph. (407) 551-3000
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B.R. Patl, P.E. No. 44097

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

GENERAL NOTES

SHEET NO.

IT-4



LEGEND

	PROPOSED	EXISTING
METER POLE	●	●
POWER PULL BOX	□	□
ITS POLE	⊙	⊙
CABINET	■	■
ITS PULL BOX	▣	▣
ITS SPLICE VAULT	⊠	⊠
CCTV	◀	◀
MVDS	▶	▶
FULL SPAN DMS	—●—	—●—
DIRECTIONAL BORE CONDUIT	—●●●—	—●●●—
UNDERGROUND CONDUIT	—●—	—●—

REFERENCE TABLE

ITS PLAN SHEET #	IT #	ITS PLAN SHEET #	IT #
1A	6	6A	16
1B	7	6B	17
2A	8	7	18
2B	9	8	19
3A	10	C1	20
3B	11	C2	21
4A	12	C3	22
4B	13	C4	23
5A	14		
5B	15		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

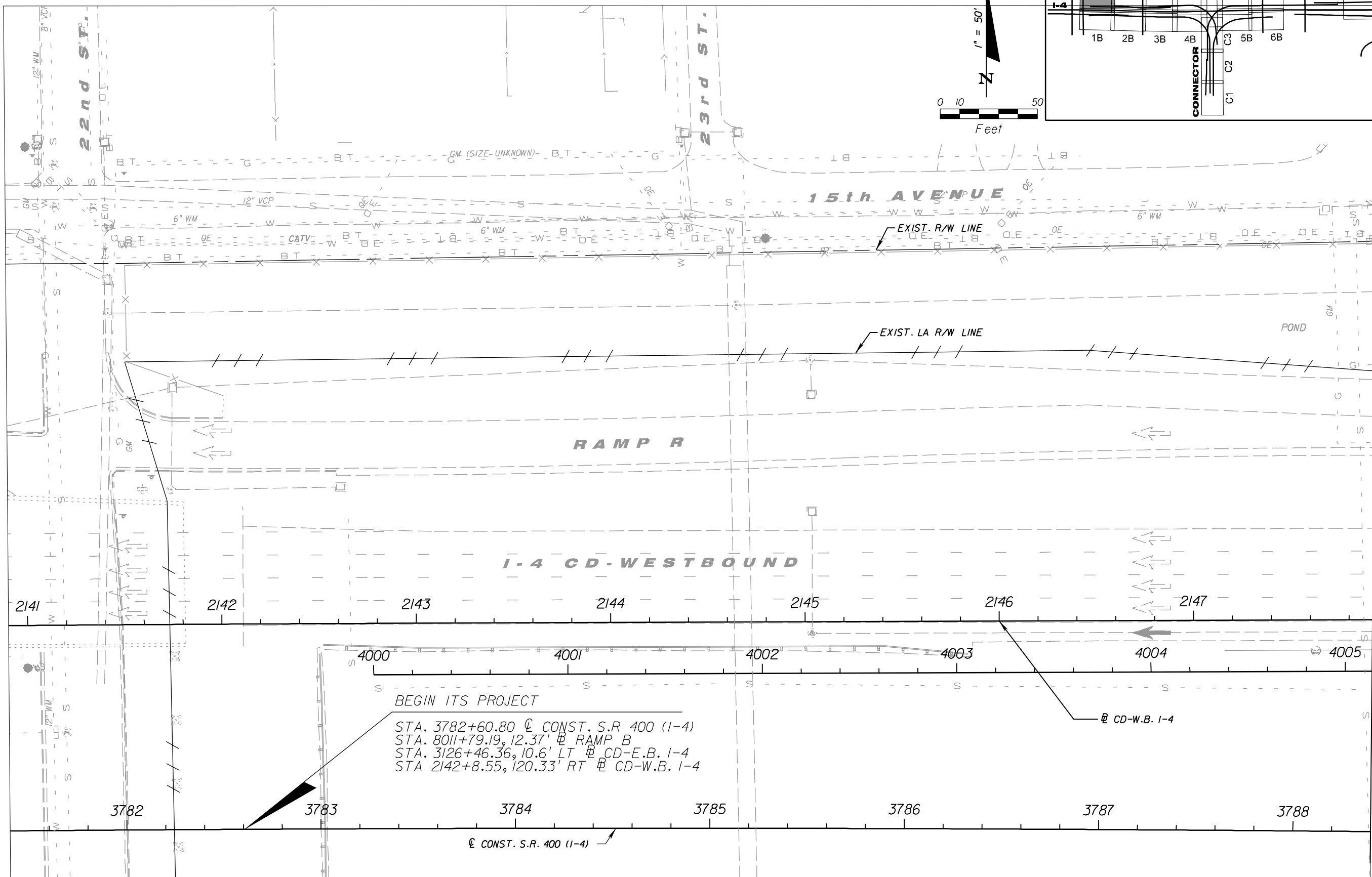
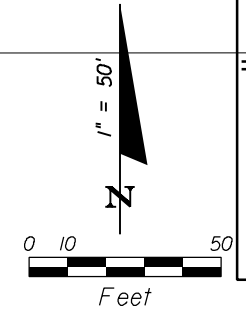
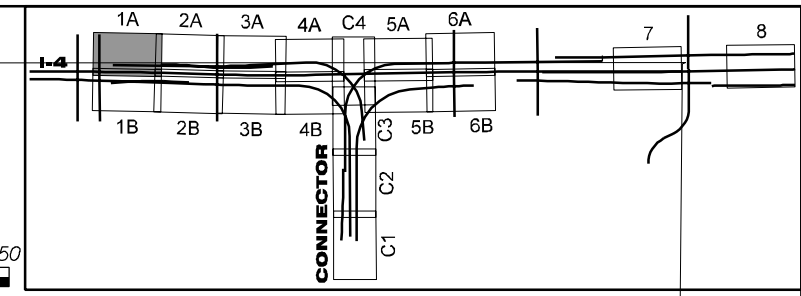
TELVENT
 Cert. of Auth. No. 2712B
 TELVENT FARRADYNE INC.
 225 South Westmonte Dr
 Suite # 1110
 Altamonte Springs, FL 32714
 Ph. (407) 551-3000
 Fax. (407) 551-3010
 B.R. Patl, P.E. No. 44097

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

PROJECT LAYOUT SHEET

SHEET NO. IT-5

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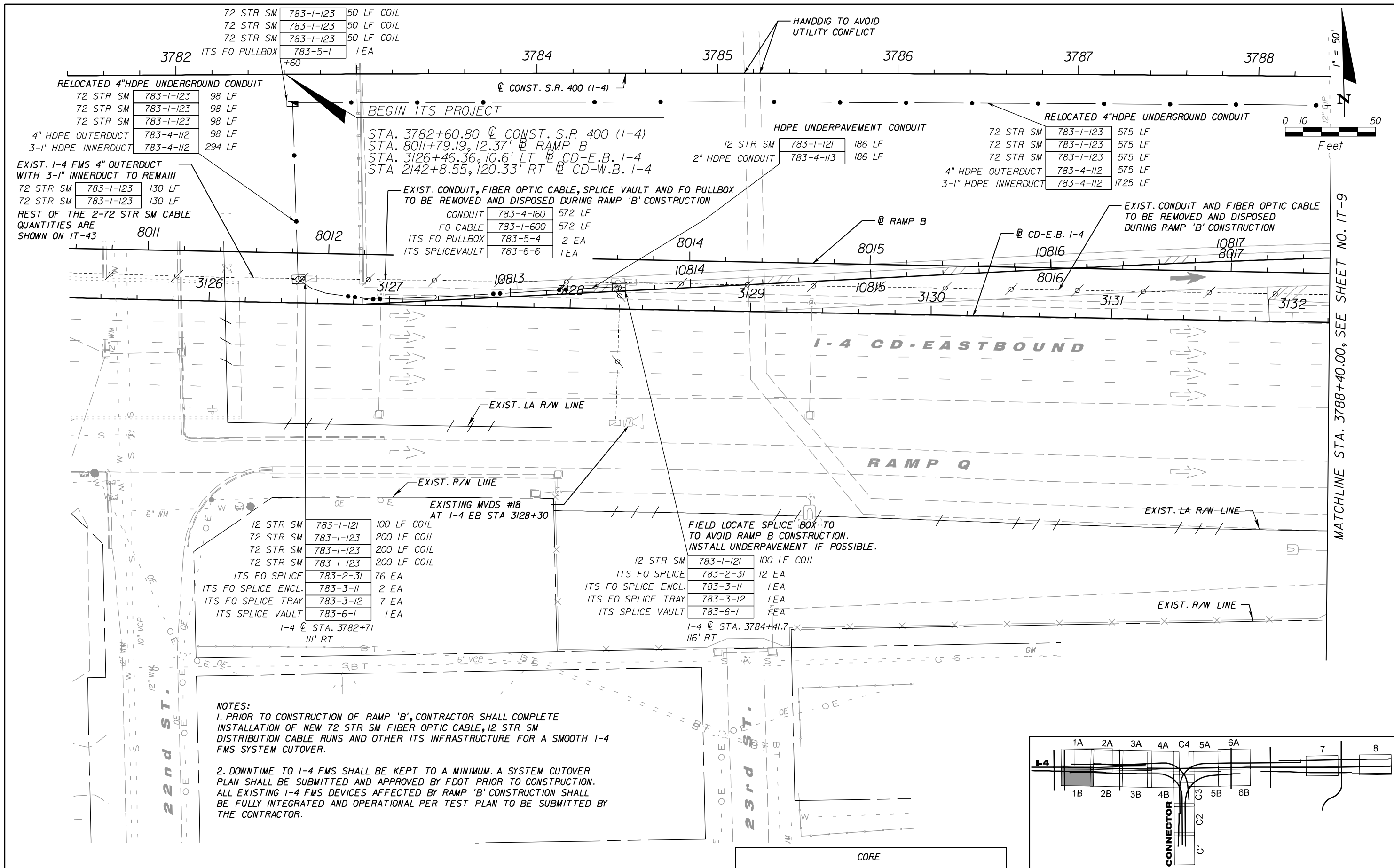
MATCHLINE STA. 3788+40.00, SEE SHEET NO. IT-8

BEGIN ITS PROJECT
 STA. 3782+60.80 @ CONST. S.R. 400 (I-4)
 STA. 8011+79.19, 12.37' @ RAMP B
 STA. 3126+46.36, 10.6' LT @ CD-E.B. I-4
 STA. 2142+8.55, 120.33' RT @ CD-W.B. I-4

NOTE: NO EXISTING/PROPOSED ITS COMPONENTS ON THIS SHEET

REVISIONS						 Cert. of Auth. No. 2712B	TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax. (407) 551-3010 B.R. Patl, P.E. No. 44097	CORE			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ITS PLAN SHEET (1A)	SHEET NO. IT-6
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
							SR 400	HILLSBOROUGH	258415-2-52-01				

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NOTES:

- PRIOR TO CONSTRUCTION OF RAMP 'B', CONTRACTOR SHALL COMPLETE INSTALLATION OF NEW 72 STR SM FIBER OPTIC CABLE, 12 STR SM DISTRIBUTION CABLE RUNS AND OTHER ITS INFRASTRUCTURE FOR A SMOOTH I-4 FMS SYSTEM CUTOVER.
- DOWNTIME TO I-4 FMS SHALL BE KEPT TO A MINIMUM. A SYSTEM CUTOVER PLAN SHALL BE SUBMITTED AND APPROVED BY FDOT PRIOR TO CONSTRUCTION. ALL EXISTING I-4 FMS DEVICES AFFECTED BY RAMP 'B' CONSTRUCTION SHALL BE FULLY INTEGRATED AND OPERATIONAL PER TEST PLAN TO BE SUBMITTED BY THE CONTRACTOR.

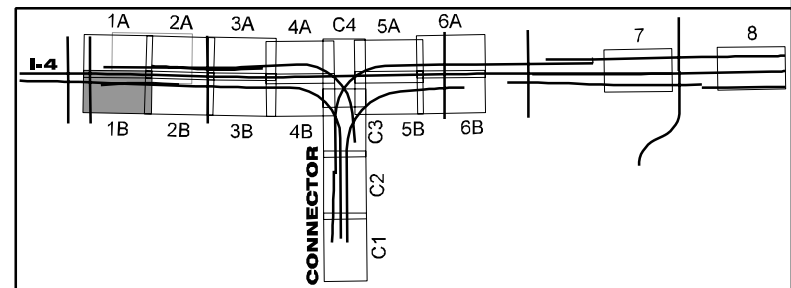
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

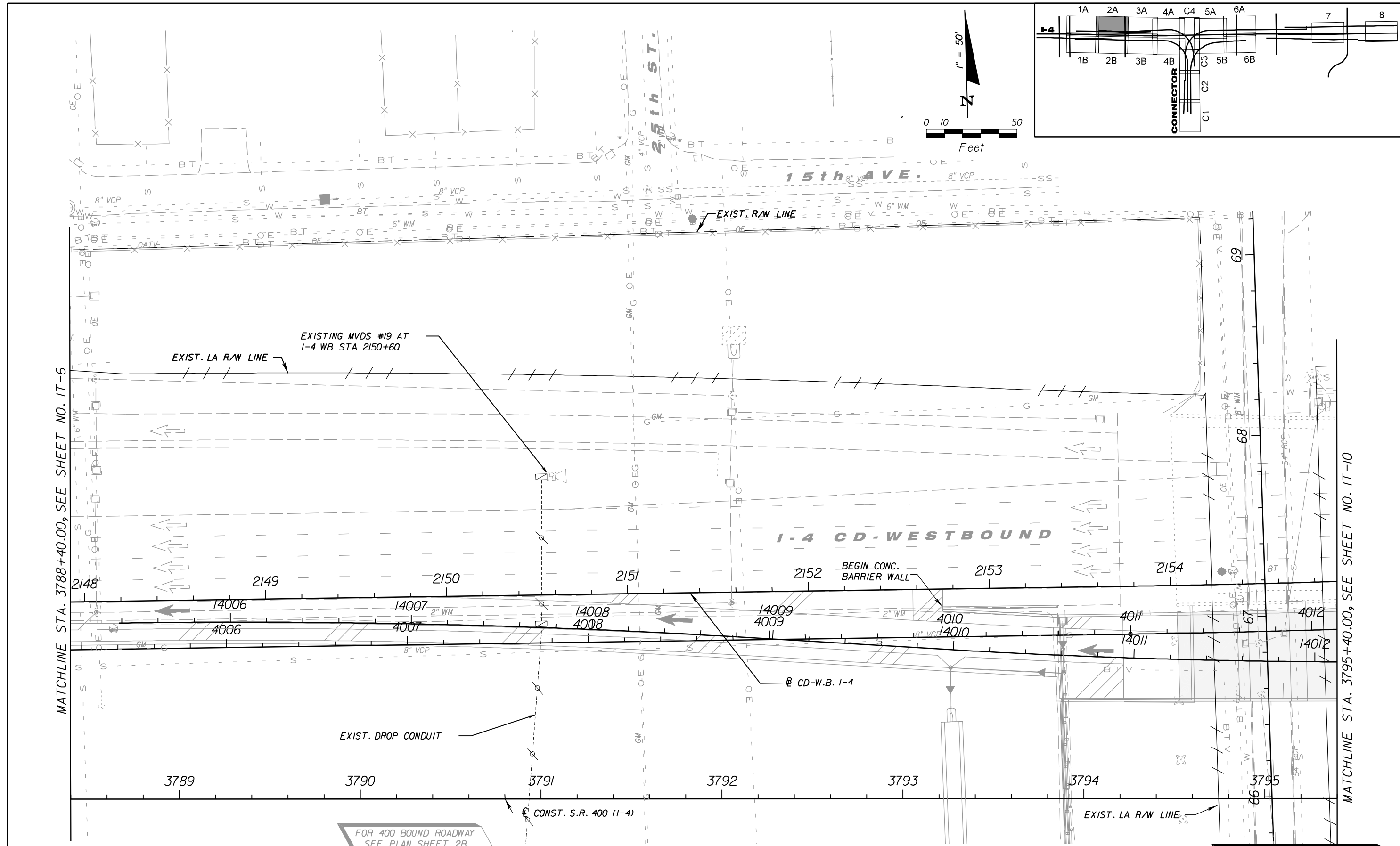
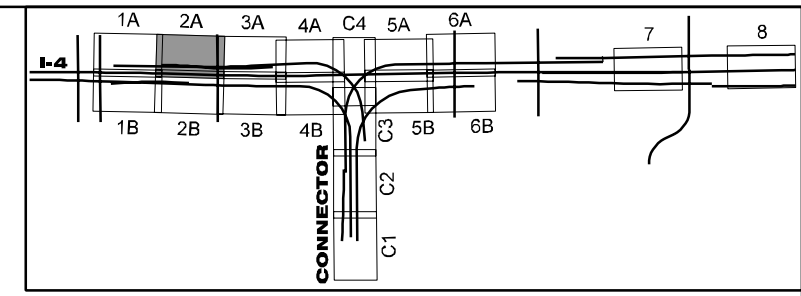


ITS PLAN SHEET (1B)

SHEET NO.
IT-7

MATCHLINE STA. 3788+40.00, SEE SHEET NO. IT-9

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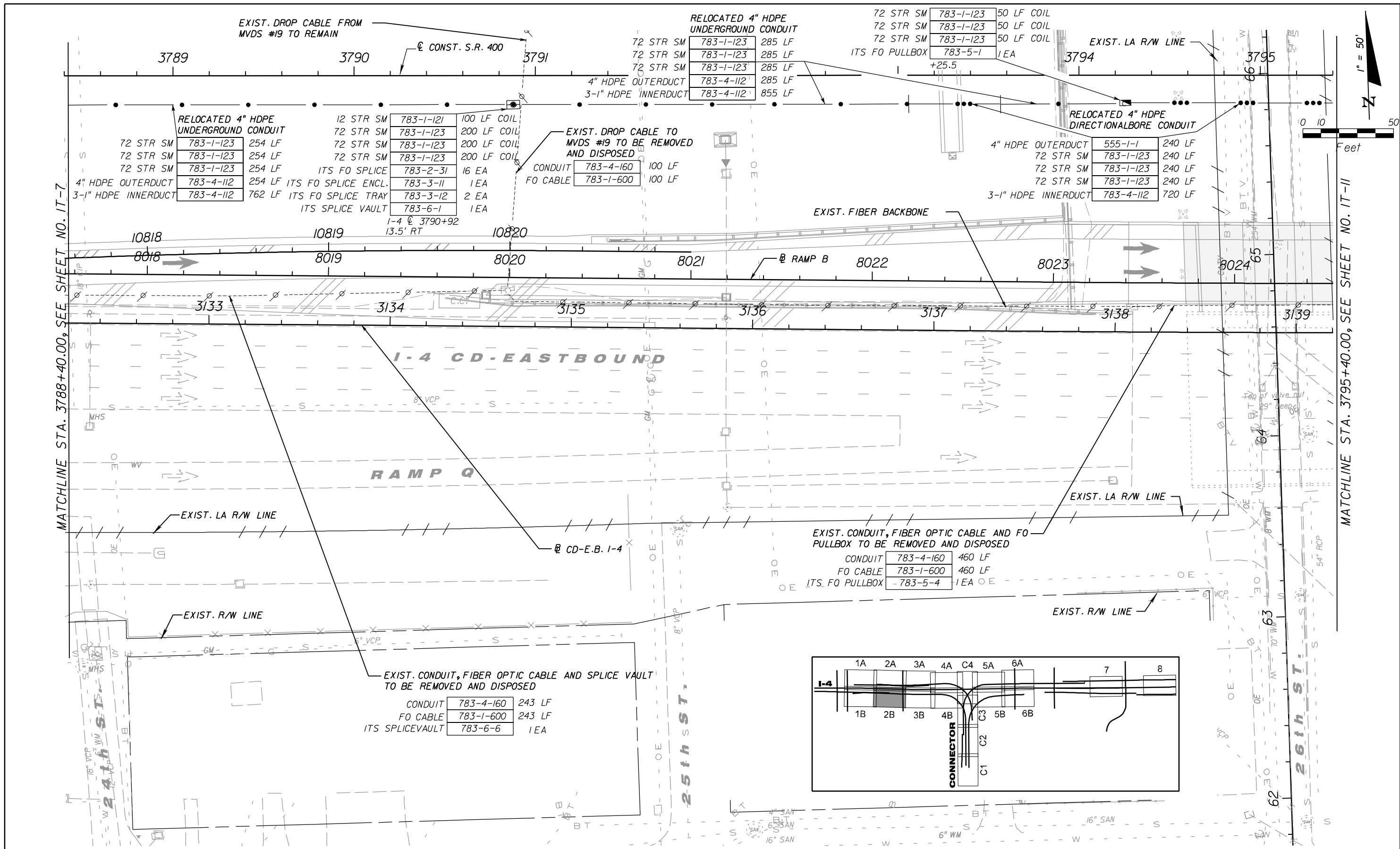
CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (2A)

NOTE: NO PROPOSED ITS COMPONENTS ON THIS SHEET

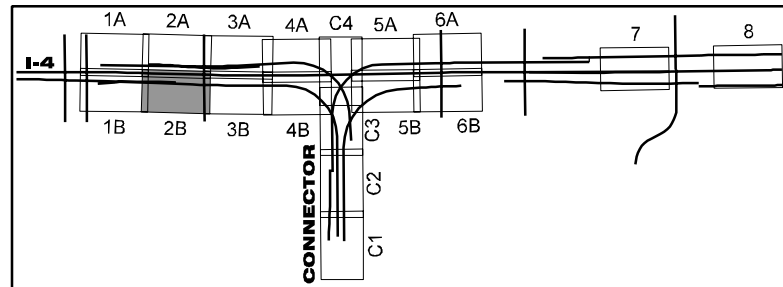
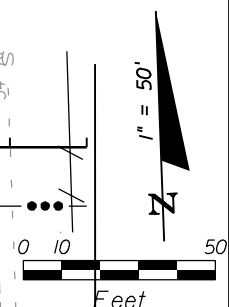
SHEET NO.
IT-8

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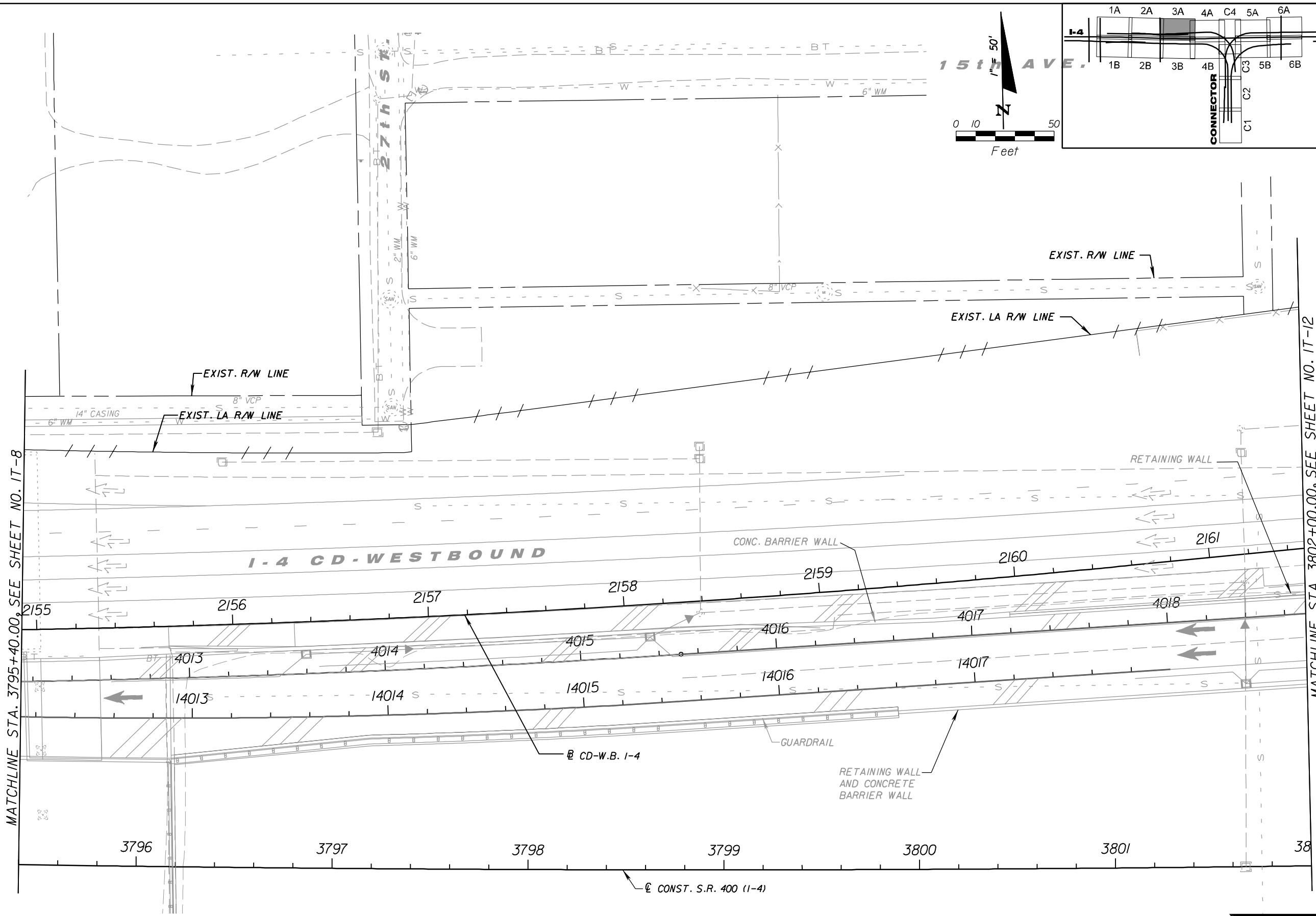
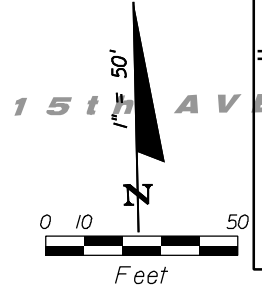
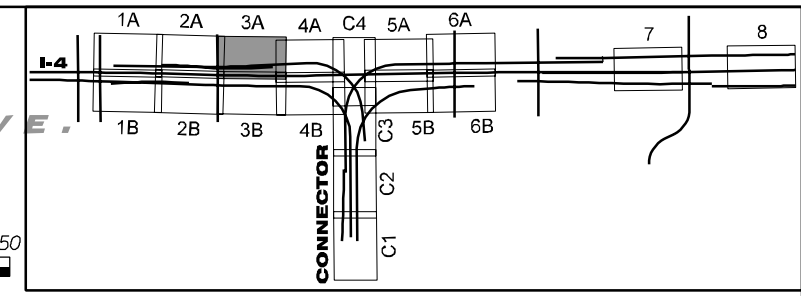
MATCHLINE STA. 3788+40.00, SEE SHEET NO. IT-7

MATCHLINE STA. 3795+40.00, SEE SHEET NO. IT-11



REVISIONS						<div style="font-size: 24pt; font-weight: bold; margin-bottom: 5px;">TELVENT</div> <small>Cert. of Auth. No. 27128</small>	<small>TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax. (407) 551-3010 B.R. Patl., P.E. No. 44097</small>	CORE			<div style="font-weight: bold; margin-bottom: 5px;">STATE OF FLORIDA</div> <div style="font-weight: bold; margin-bottom: 5px;">DEPARTMENT OF TRANSPORTATION</div>	<div style="font-size: 18pt; font-weight: bold; margin-bottom: 5px;">ITS PLAN SHEET (2B)</div>	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SHEET NO.
								ROAD NO.	COUNTY	FINANCIAL PROJECT ID			IT-9						
						SR 400	HILLSBOROUGH	258415-2-52-01	ITS PLAN SHEET (2B)						IT-9				

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MATCHLINE STA. 3795+40.00, SEE SHEET NO. IT-8

MATCHLINE STA. 3802+00.00, SEE SHEET NO. IT-12

NOTE: NO EXISTING/PROPOSED ITS COMPONENTS ON THIS SHEET

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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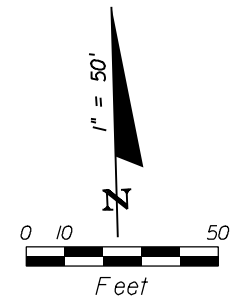
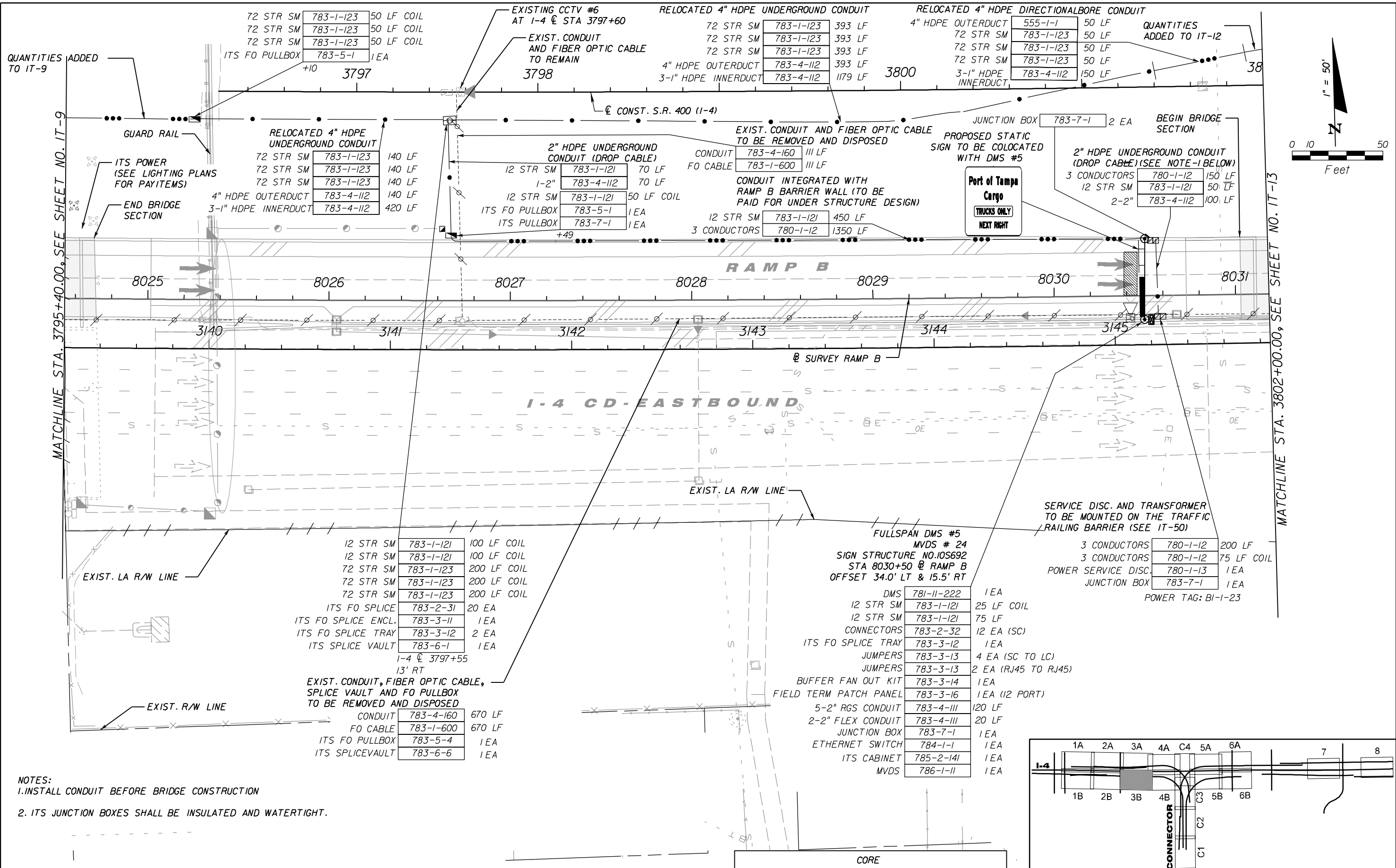
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (3A)

SHEET NO.
IT-10

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:
 1. INSTALL CONDUIT BEFORE BRIDGE CONSTRUCTION
 2. ITS JUNCTION BOXES SHALL BE INSULATED AND WATERTIGHT.

72 STR SM	783-1-123	50 LF COIL
72 STR SM	783-1-123	50 LF COIL
72 STR SM	783-1-123	50 LF COIL
ITS FO PULLBOX	783-5-1	1 EA

EXISTING CCTV #6
 AT I-4 @ STA 3797+60
 EXIST. CONDUIT
 AND FIBER OPTIC CABLE
 TO REMAIN
 3798

RELOCATED 4" HDPE UNDERGROUND CONDUIT	72 STR SM	783-1-123	393 LF
	72 STR SM	783-1-123	393 LF
	72 STR SM	783-1-123	393 LF
4" HDPE OUTERDUCT	783-4-112	393 LF	
3-1" HDPE INNERDUCT	783-4-112	1179 LF	

RELOCATED 4" HDPE DIRECTIONAL BORE CONDUIT	4" HDPE OUTERDUCT	555-1-1	50 LF
	72 STR SM	783-1-123	50 LF
	72 STR SM	783-1-123	50 LF
	72 STR SM	783-1-123	50 LF
	72 STR SM	783-1-123	50 LF
3-1" HDPE INNERDUCT	783-4-112	150 LF	

QUANTITIES ADDED TO IT-12	783-1-123	50 LF
	783-1-123	50 LF
	783-1-123	50 LF
	783-1-123	50 LF
	783-4-112	150 LF

RELOCATED 4" HDPE UNDERGROUND CONDUIT	72 STR SM	783-1-123	140 LF
	72 STR SM	783-1-123	140 LF
	72 STR SM	783-1-123	140 LF
4" HDPE OUTERDUCT	783-4-112	140 LF	
3-1" HDPE INNERDUCT	783-4-112	420 LF	

2" HDPE UNDERGROUND CONDUIT (DROP CABLE)	12 STR SM	783-1-121	70 LF
	1-2"	783-4-112	70 LF
50 LF COIL	12 STR SM	783-1-121	50 LF
ITS FO PULLBOX	783-5-1	1 EA	
ITS PULLBOX	783-7-1	1 EA	

EXIST. CONDUIT AND FIBER OPTIC CABLE
 TO BE REMOVED AND DISPOSED
 CONDUIT 783-4-160 111 LF
 FO CABLE 783-1-600 111 LF
 CONDUIT INTEGRATED WITH
 RAMP B BARRIER WALL (TO BE
 PAID FOR UNDER STRUCTURE DESIGN)

JUNCTION BOX 783-7-1 2 EA
 PROPOSED STATIC
 SIGN TO BE COLOCATED
 WITH DMS #5
Port of Tampa
Cargo
TRUCKS ONLY
NEXT RIGHT

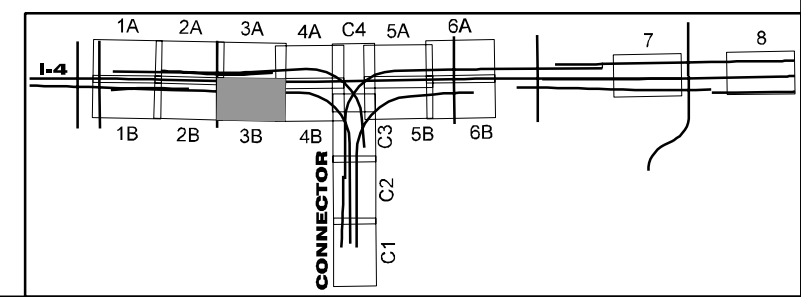
2" HDPE UNDERGROUND CONDUIT (DROP CABLE) (SEE NOTE-1 BELOW)	3 CONDUCTORS	780-1-12	150 LF
	12 STR SM	783-1-121	50 LF
	2-2"	783-4-112	100 LF

12 STR SM	783-1-121	100 LF COIL
12 STR SM	783-1-121	100 LF COIL
72 STR SM	783-1-123	200 LF COIL
72 STR SM	783-1-123	200 LF COIL
72 STR SM	783-1-123	200 LF COIL
ITS FO SPLICE	783-2-31	20 EA
ITS FO SPLICE ENCL.	783-3-11	1 EA
ITS FO SPLICE TRAY	783-3-12	2 EA
ITS SPLICE VAULT	783-6-1	1 EA

1-4 @ 3797+55
 13' RT
 EXIST. CONDUIT, FIBER OPTIC CABLE,
 SPLICE VAULT AND FO PULLBOX
 TO BE REMOVED AND DISPOSED
 CONDUIT 783-4-160 670 LF
 FO CABLE 783-1-600 670 LF
 ITS FO PULLBOX 783-5-4 1 EA
 ITS SPLICE VAULT 783-6-6 1 EA

FULLSPAN DMS #5	DMS	781-11-222	1 EA
MVDS # 24	12 STR SM	783-1-121	25 LF COIL
SIGN STRUCTURE NO. 10S692	12 STR SM	783-1-121	75 LF
STA 8030+50 @ RAMP B	CONNECTORS	783-2-32	12 EA (SC)
OFFSET 34.0' LT & 15.5' RT	ITS FO SPLICE TRAY	783-3-12	1 EA
	JUMPERS	783-3-13	4 EA (SC TO LC)
	JUMPERS	783-3-13	2 EA (RJ45 TO RJ45)
	BUFFER FAN OUT KIT	783-3-14	1 EA
	FIELD TERM PATCH PANEL	783-3-16	1 EA (12 PORT)
	5-2" RGS CONDUIT	783-4-111	120 LF
	2-2" FLEX CONDUIT	783-4-111	20 LF
	JUNCTION BOX	783-7-1	1 EA
	ETHERNET SWITCH	784-1-1	1 EA
	ITS CABINET	785-2-141	1 EA
	MVDS	786-1-11	1 EA

SERVICE DISC. AND TRANSFORMER TO BE MOUNTED ON THE TRAFFIC RAILING BARRIER (SEE IT-50)	3 CONDUCTORS	780-1-12	200 LF
	3 CONDUCTORS	780-1-12	75 LF COIL
POWER SERVICE DISC.	780-1-13	1 EA	
JUNCTION BOX	783-7-1	1 EA	
POWER TAG: BI-1-23			



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

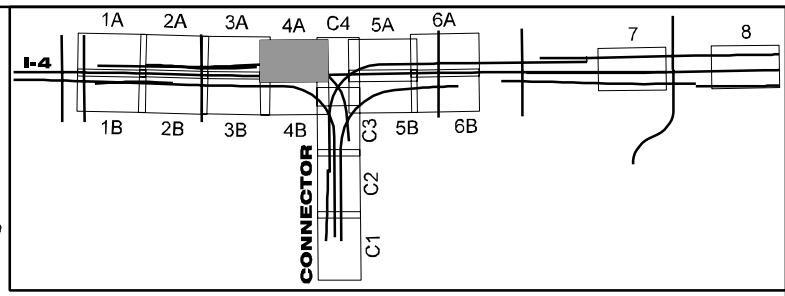
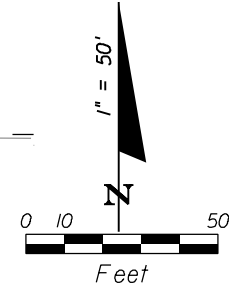
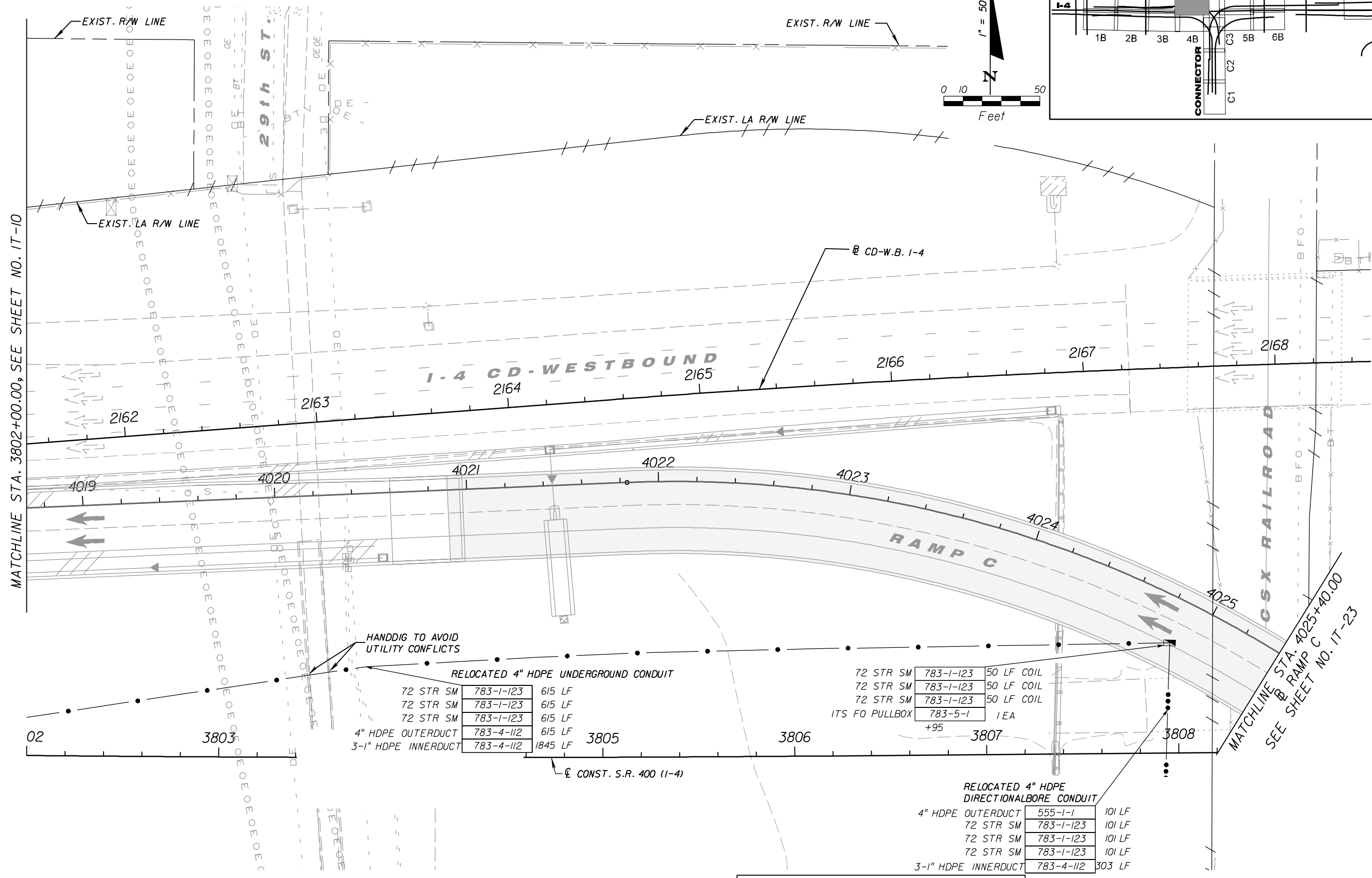
TELVENT
 Cert. of Auth. No. 27128
 TELVENT FARRADYNE INC.
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (3B)
 SHEET NO. IT-11

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MATCHLINE STA. 3802+00.00, SEE SHEET NO. IT-10



HANDDIG TO AVOID UTILITY CONFLICTS

RELOCATED 4" HDPE UNDERGROUND CONDUIT

72 STR SM	783-1-123	615 LF
72 STR SM	783-1-123	615 LF
72 STR SM	783-1-123	615 LF
4" HDPE OUTERDUCT	783-4-112	615 LF
3-1" HDPE INNERDUCT	783-4-112	1845 LF

72 STR SM	783-1-123	50 LF COIL
72 STR SM	783-1-123	50 LF COIL
72 STR SM	783-1-123	50 LF COIL
ITS FO PULLBOX	783-5-1	1 EA

RELOCATED 4" HDPE DIRECTIONAL BORE CONDUIT

4" HDPE OUTERDUCT	555-1-1	101 LF
72 STR SM	783-1-123	101 LF
72 STR SM	783-1-123	101 LF
72 STR SM	783-1-123	101 LF
3-1" HDPE INNERDUCT	783-4-112	303 LF

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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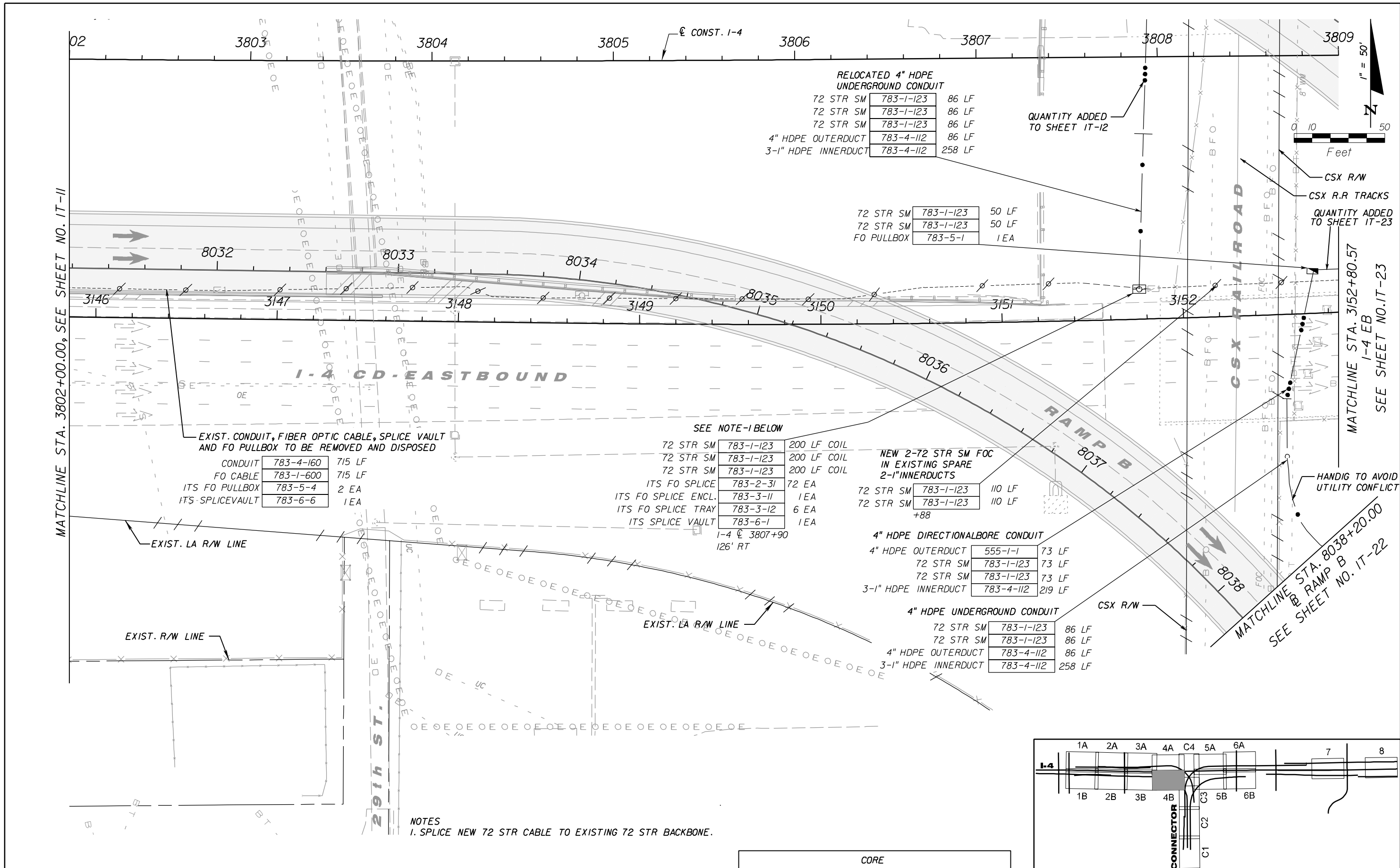
TELVENT FARRADYNE INC.
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (4A)

SHEET NO.
IT-12

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RELOCATED 4" HDPE UNDERGROUND CONDUIT

72 STR SM	783-1-123	86 LF
72 STR SM	783-1-123	86 LF
72 STR SM	783-1-123	86 LF
4" HDPE OUTERDUCT	783-4-112	86 LF
3-1" HDPE INNERDUCT	783-4-112	258 LF

72 STR SM	783-1-123	50 LF
72 STR SM	783-1-123	50 LF
FO PULLBOX	783-5-1	1 EA

EXIST. CONDUIT, FIBER OPTIC CABLE, SPLICE VAULT AND FO PULLBOX TO BE REMOVED AND DISPOSED

CONDUIT	783-4-160	715 LF
FO CABLE	783-1-600	715 LF
ITS FO PULLBOX	783-5-4	2 EA
ITS SPLICEVAULT	783-6-6	1 EA

SEE NOTE-1 BELOW

72 STR SM	783-1-123	200 LF COIL
72 STR SM	783-1-123	200 LF COIL
72 STR SM	783-1-123	200 LF COIL
ITS FO SPLICE	783-2-31	72 EA
ITS FO SPLICE ENCL.	783-3-11	1 EA
ITS FO SPLICE TRAY	783-3-12	6 EA
ITS SPLICE VAULT	783-6-1	1 EA

1-4 @ 3807+90
126' RT

NEW 2-72 STR SM FOC IN EXISTING SPARE 2-1" INNERDUCTS

72 STR SM	783-1-123	110 LF
72 STR SM	783-1-123	110 LF

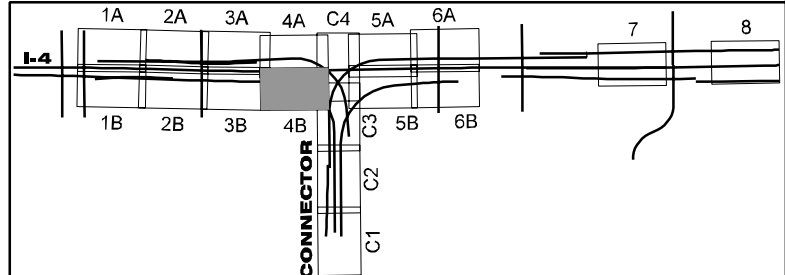
+88

4" HDPE DIRECTIONAL BORE CONDUIT

4" HDPE OUTERDUCT	555-1-1	73 LF
72 STR SM	783-1-123	73 LF
72 STR SM	783-1-123	73 LF
3-1" HDPE INNERDUCT	783-4-112	219 LF

4" HDPE UNDERGROUND CONDUIT

72 STR SM	783-1-123	86 LF
72 STR SM	783-1-123	86 LF
4" HDPE OUTERDUCT	783-4-112	86 LF
3-1" HDPE INNERDUCT	783-4-112	258 LF



NOTES
1. SPLICE NEW 72 STR CABLE TO EXISTING 72 STR BACKBONE.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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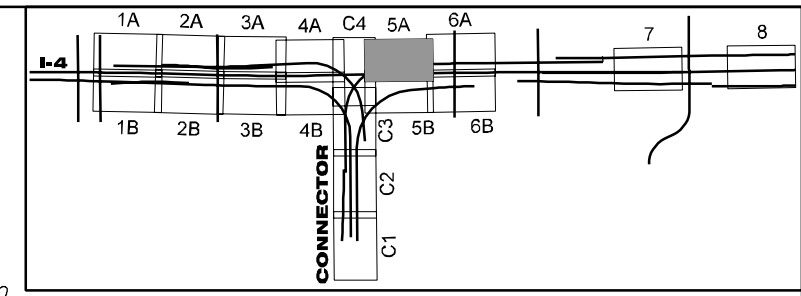
TELVENT FARRADYNE INC.
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CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (4B)

SHEET NO. IT-13

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2" HDPE UNDERGROUND CONDUIT (SEE NOTE 1 BELOW)

3 CONDUCTORS	780-1-12	720 LF
12 STR SM	783-1-121	240 LF
2-2"	783-4-112	480 LF

POWER POLE W/ SERVICE DISC. AND TRANSFORMER

POWER POLE	641-2-12	1 EA
3 CONDUCTORS	780-1-12	100 LF
POWER SERVICE DISC.	780-1-13	1 EA
ITS PULL BOX	783-7-1	1 EA
POWER POLE TAG: CI-1-24		

12 STR SM FO PULLBOX

783-1-121	100 LF COIL
783-5-1	1 EA

2" HDPE UNDERGROUND CONDUIT (SEE NOTE 2 BELOW)

3 CONDUCTORS	780-1-12	210 LF
12 STR SM	783-1-121	70 LF
2-2"	783-4-112	140 LF

FULLSPAN DMS #4
MVDS #25
SIGN STRUCTURE NO. 105697
STA 6055+55 @ RAMP E,
OFFSET 20.7' RT & 50.8' LT

UTIL LOCATE	737-70-1	10 EA
3 CONDUCTORS	780-1-12	100 LF
DMS	781-11-223	1 EA
12 STR SM	783-1-121	100 LF
CONNECTORS	783-2-32	12 EA (SC)
ITS FO SPLICE TRAY	783-3-12	1 EA
JUMPERS	783-3-13	4 EA (SC TO LC)
JUMPERS	783-3-13	2 EA (RJ45 TO RJ45)
BUFFER FAN OUT KIT	783-3-14	1 EA
FIELD TERM PATCH PANEL	783-3-16	1 EA (12 PORT)
5-2" RGS CONDUIT	783-4-111	120 LF
2-2" FLEX CONDUIT	783-4-111	20 LF
ITS FO PULLBOX	783-5-1	1 EA
ITS PULLBOX	783-7-1	1 EA
ETHERNET SWITCH	784-1-1	1 EA
ITS CABINET	785-2-141	1 EA
MVDS	786-1-11	1 EA

PROPOSED STATIC SIGN TO BE COLOCATED WITH FULLSPAN DMS #4

Port of Tampa
Cargo
TRUCKS ONLY
NEXT LEFT

NOTE:
1. THIS UNDERGROUND CONDUIT RUN CONSTITUTES SECTIONS WHERE EXISTING SANITARY AND WATER UTILITIES ARE LOCATED AT @ CD-W.B. 1-4 STA. 2172+81, 43' RT AND STA. 2174+26, 34' RT RESPECTIVELY. TO AVOID ANY UTILITY CONFLICTS, HAND DIG AND PLACE UNDERGROUND CONDUIT.
2. CONDUIT TO BE PLACED BEFORE PAVEMENT IS COMPLETED.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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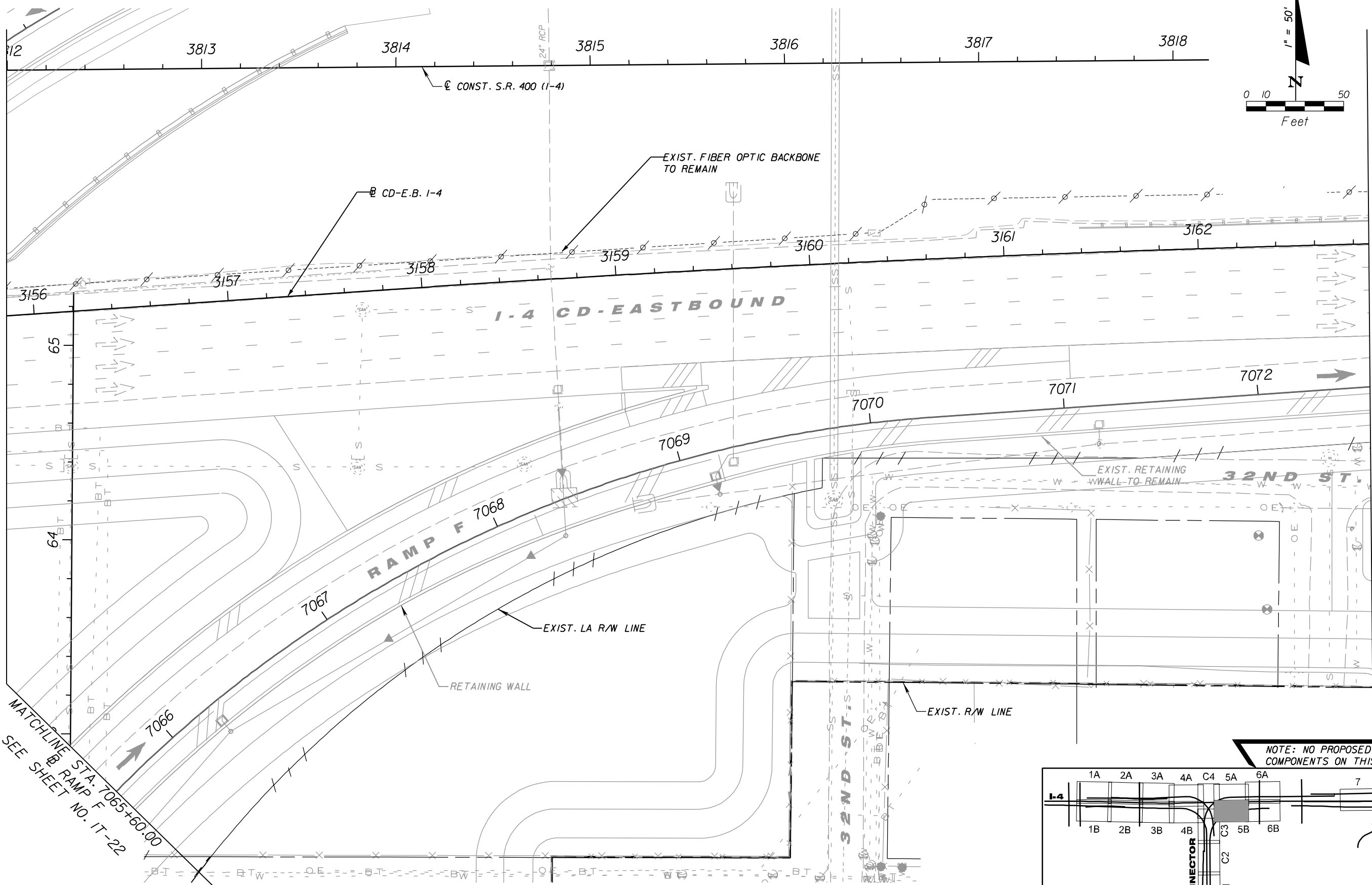
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CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (5A)

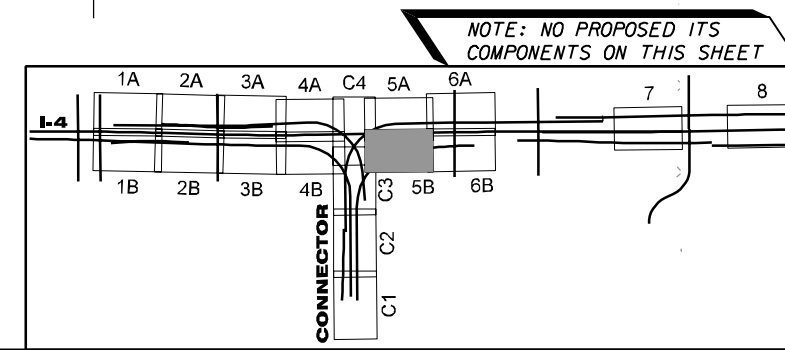
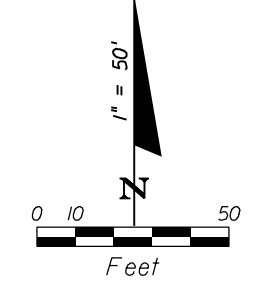
SHEET NO.
IT-14

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MATCHLINE STA. 7065+60.00
SEE SHEET NO. IT-22

MATCHLINE STA. 3819+00.00, SEE SHEET NO. IT-17



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

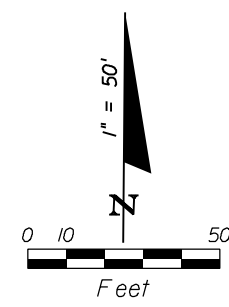
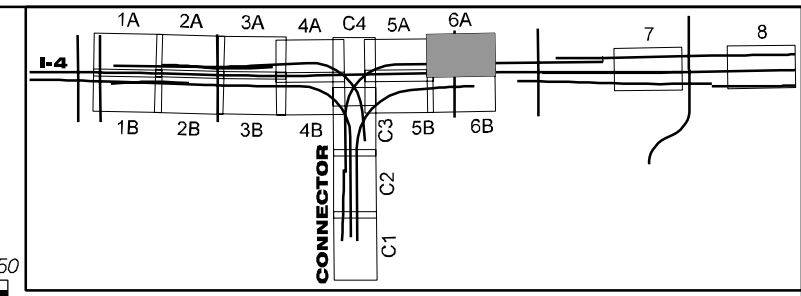
TELVENT
 Cert. of Auth. No. 27128
 TELVENT FARRADYNE INC.
 225 South Westmonte Dr
 Suite # 1110
 Altamonte Springs, FL 32714
 Ph. (407) 551-3000
 Fax. (407) 551-3010
 B.R. Patl, P.E. No. 44097

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (5B)

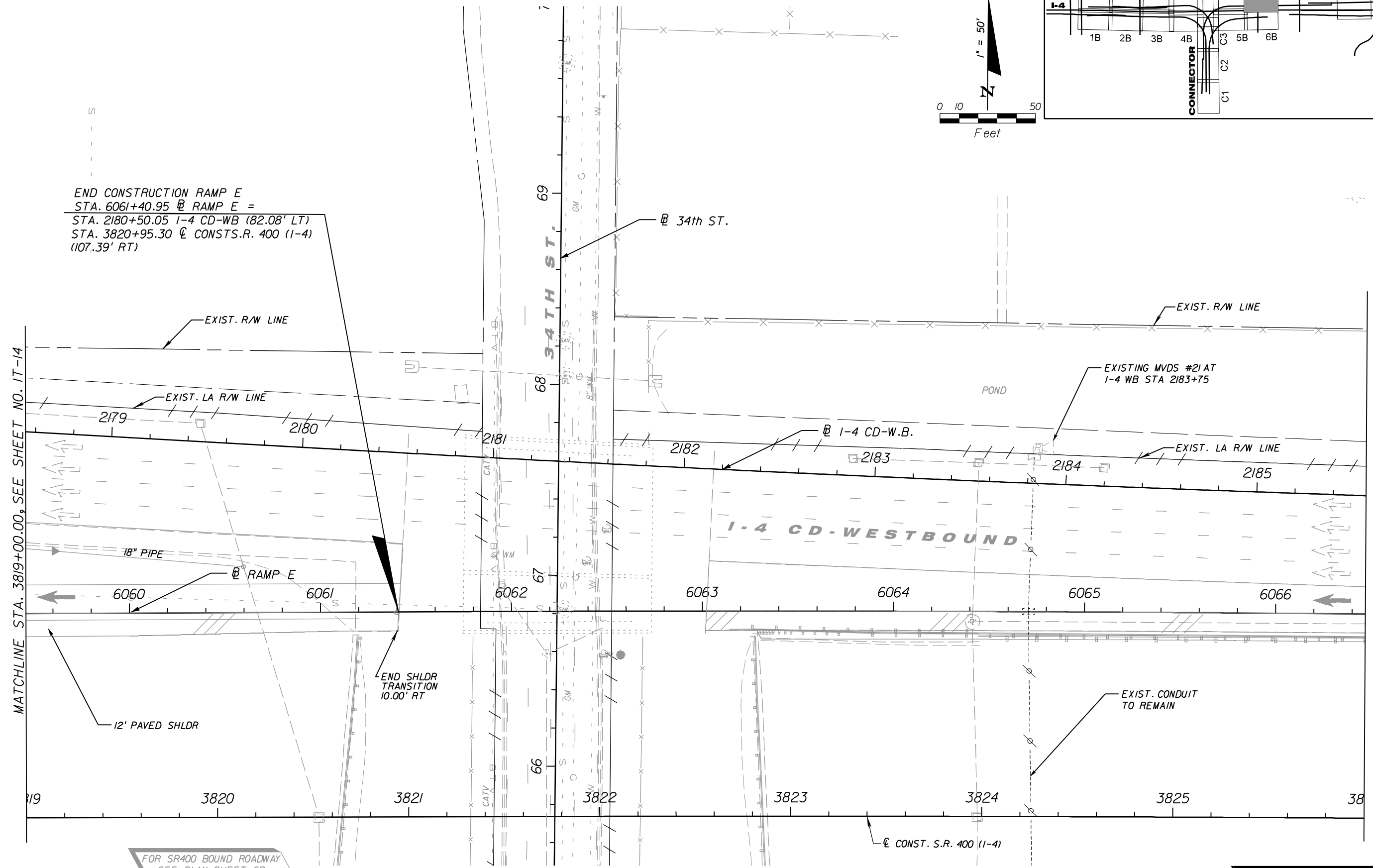
SHEET NO.
IT-15

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END CONSTRUCTION RAMP E
 STA. 6061+40.95 @ RAMP E =
 STA. 2180+50.05 I-4 CD-WB (82.08' LT)
 STA. 3820+95.30 @ CONSTS.R. 400 (I-4)
 (107.39' RT)

MATCHLINE STA. 3819+00.00, SEE SHEET NO. IT-14



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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

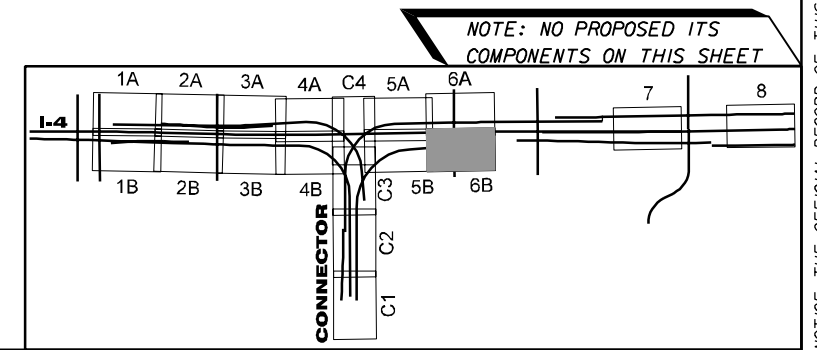
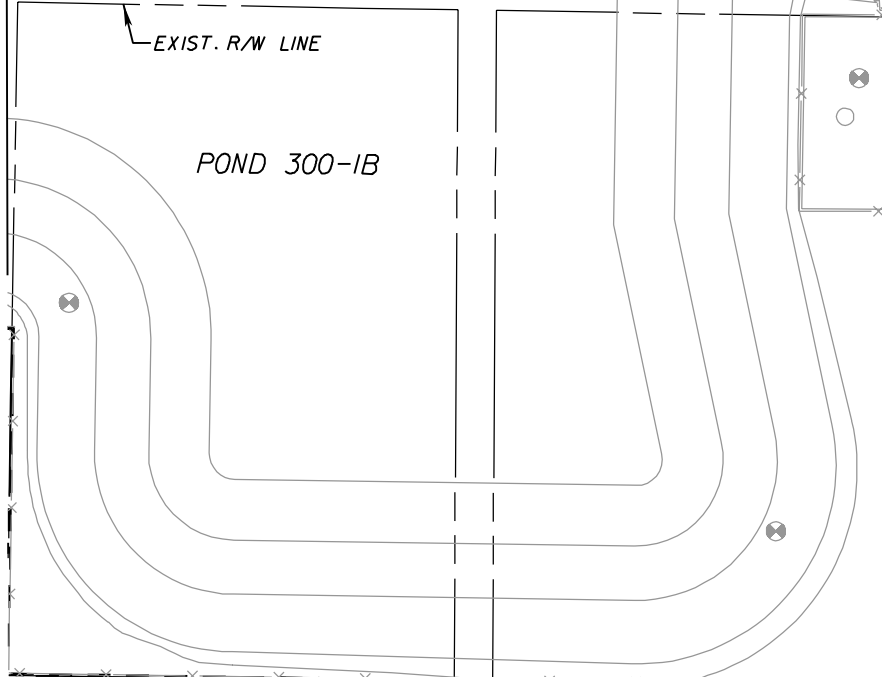
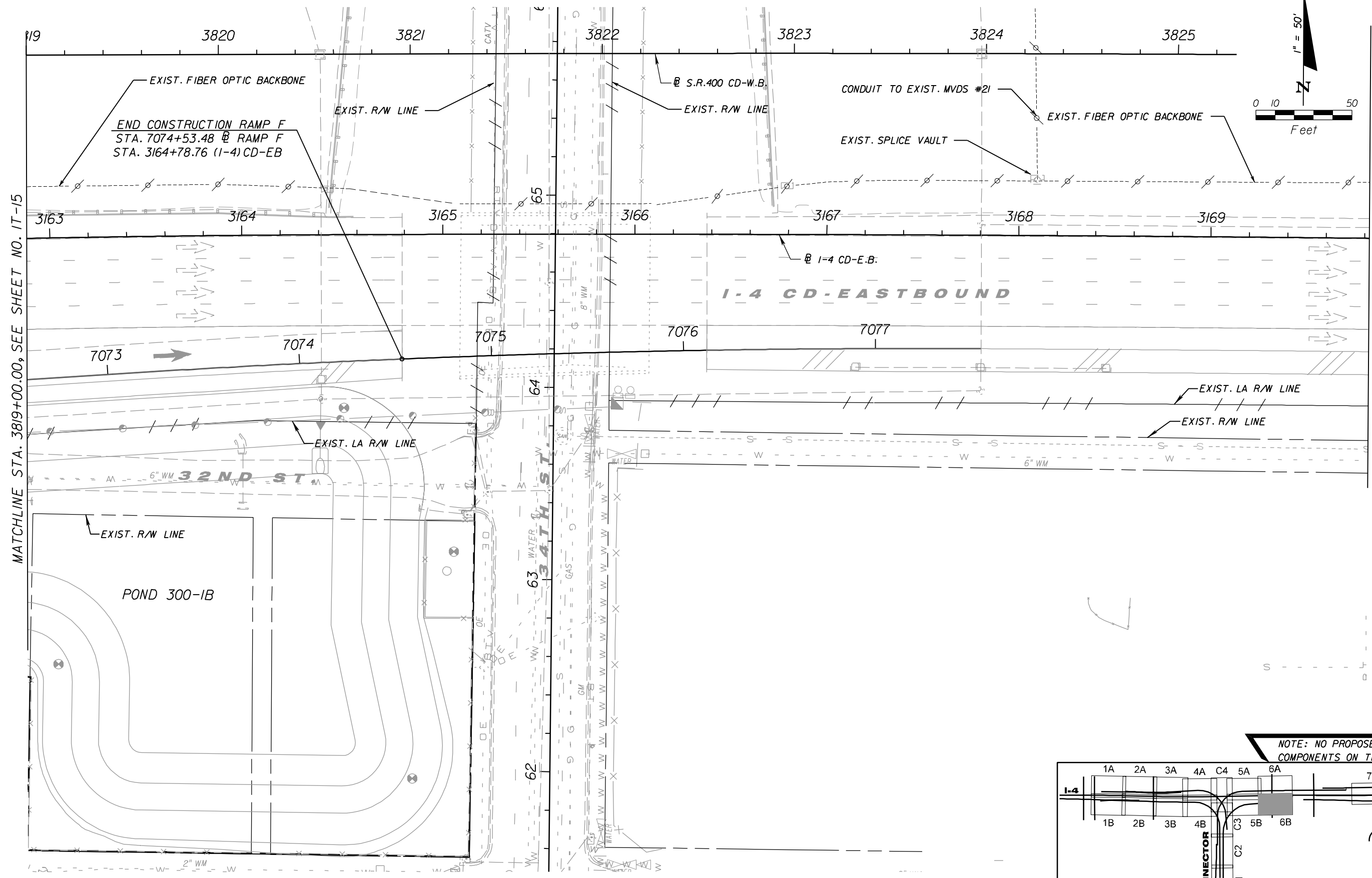
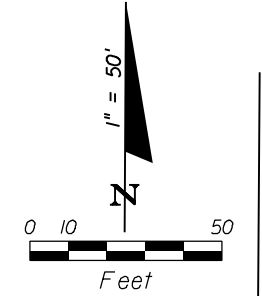
NOTE: NO PROPOSED ITS COMPONENTS ON THIS SHEET

ITS PLAN SHEET (6A)

SHEET NO.
IT-16

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MATCHLINE STA. 3819+00.00, SEE SHEET NO. IT-15



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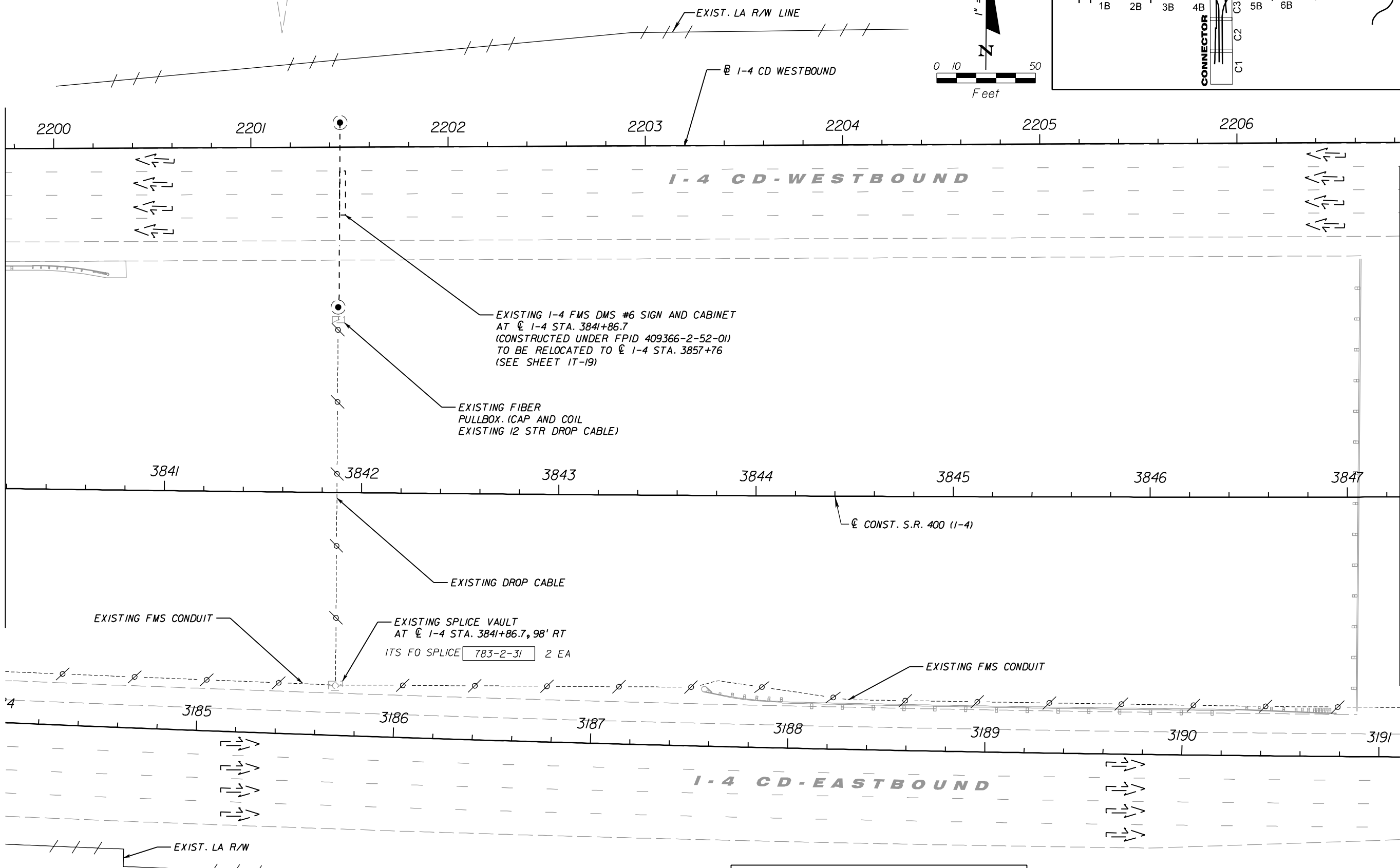
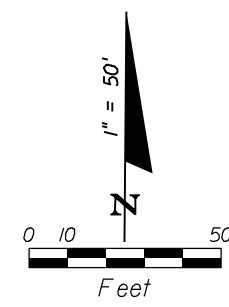
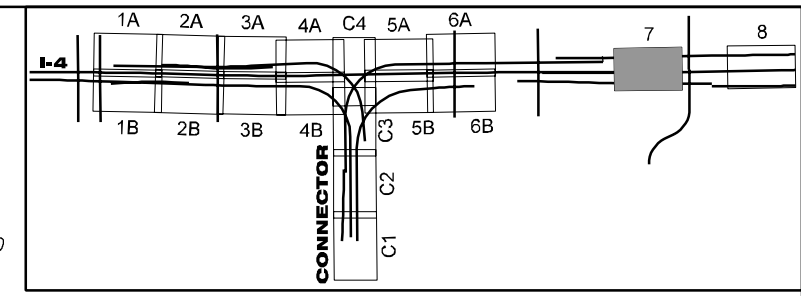
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ITS PLAN SHEET (6B)

SHEET NO.
IT-17

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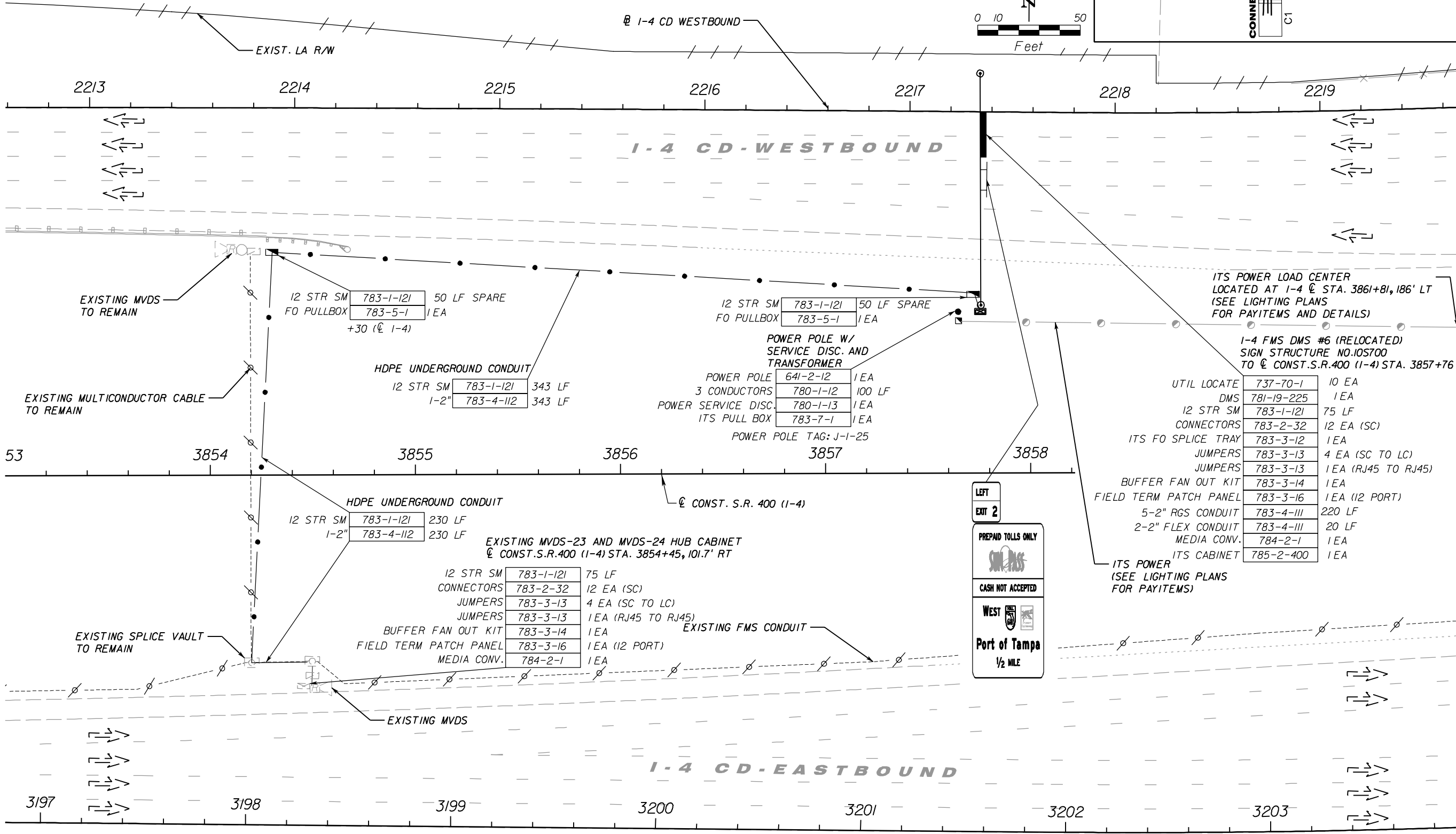
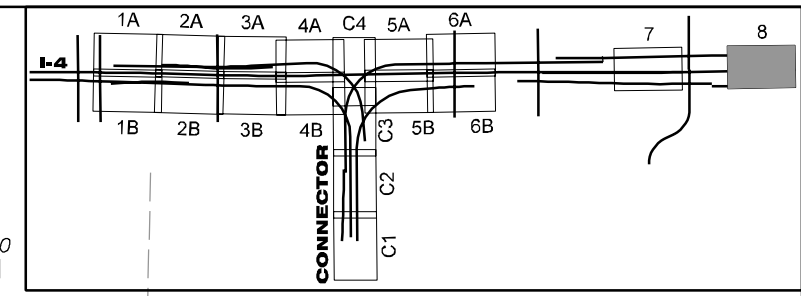
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 Altamonte Springs, FL 32714
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SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (7)

SHEET NO.
IT-18

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- ITS POWER LOAD CENTER
LOCATED AT I-4 @ STA. 3861+81, 186' LT
(SEE LIGHTING PLANS
FOR PAYITEMS AND DETAILS)
- I-4 FMS DMS #6 (RELOCATED)
SIGN STRUCTURE NO.10S700
TO @ CONST.S.R.400 (I-4) STA. 3857+76
- | | | |
|------------------------|------------|---------------------|
| UTIL LOCATE | 737-70-1 | 10 EA |
| DMS | 781-19-225 | 1 EA |
| 12 STR SM | 783-1-121 | 75 LF |
| CONNECTORS | 783-2-32 | 12 EA (SC) |
| ITS FO SPLICE TRAY | 783-3-12 | 1 EA |
| JUMPERS | 783-3-13 | 4 EA (SC TO LC) |
| JUMPERS | 783-3-13 | 1 EA (RJ45 TO RJ45) |
| BUFFER FAN OUT KIT | 783-3-14 | 1 EA |
| FIELD TERM PATCH PANEL | 783-3-16 | 1 EA (12 PORT) |
| 5-2" RGS CONDUIT | 783-4-III | 220 LF |
| 2-2" FLEX CONDUIT | 783-4-III | 20 LF |
| MEDIA CONV. | 784-2-1 | 1 EA |
| ITS CABINET | 785-2-400 | 1 EA |
- ITS POWER
(SEE LIGHTING PLANS
FOR PAYITEMS)

LEFT
EXIT 2

PREPAID TOLLS ONLY

CASH NOT ACCEPTED

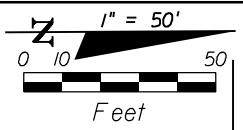
Port of Tampa
1/2 MILE

REVISIONS						 Cert. of Auth. No. 27128 TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax. (407) 551-3010 B.R. Patl, P.E. No. 44097	CORE			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ITS PLAN SHEET (8)	SHEET NO. IT-19
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	HILLSBOROUGH	258415-2-52-01			

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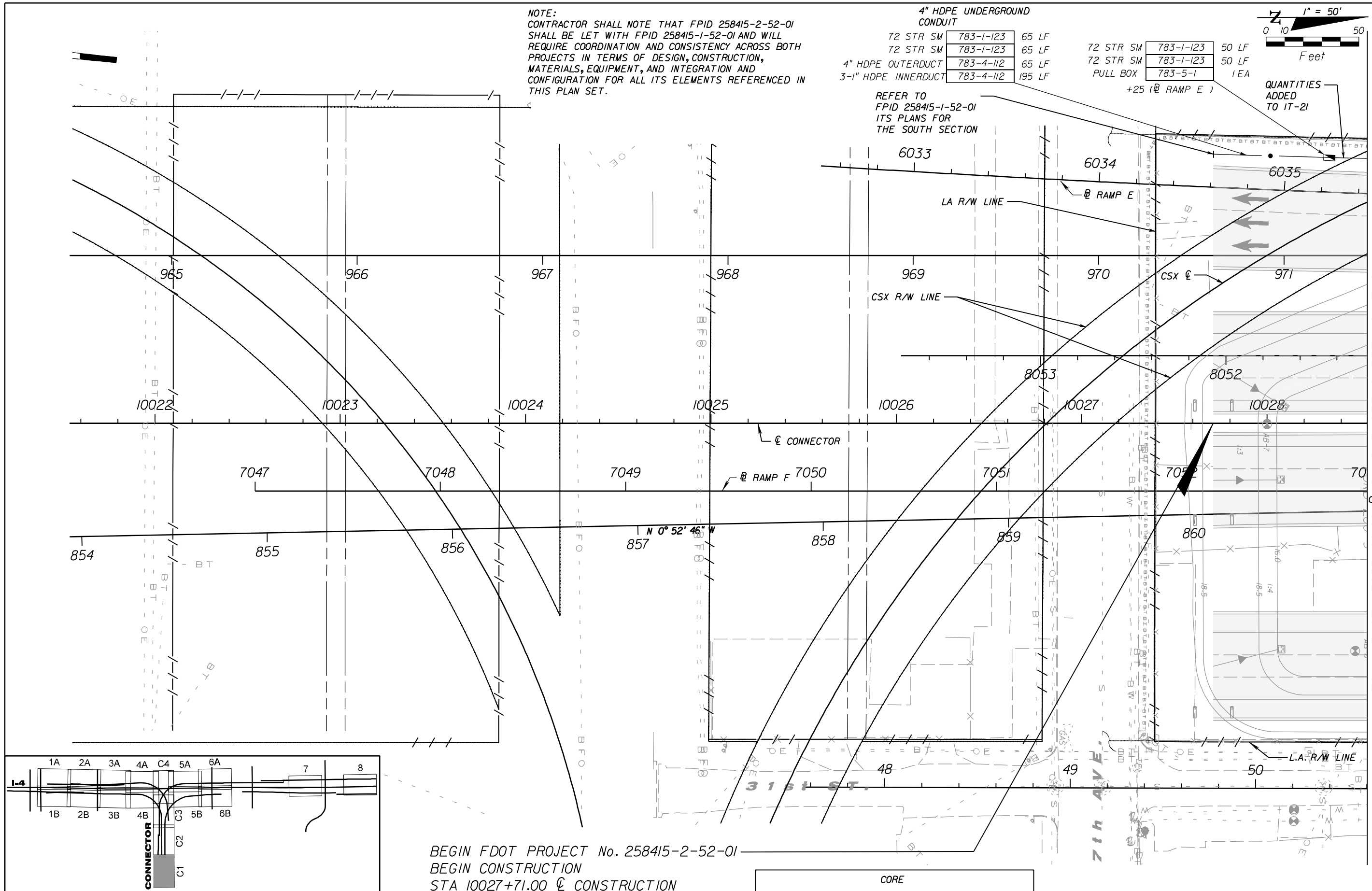
NOTE:
 CONTRACTOR SHALL NOTE THAT FPID 258415-2-52-01
 SHALL BE LET WITH FPID 258415-1-52-01 AND WILL
 REQUIRE COORDINATION AND CONSISTENCY ACROSS BOTH
 PROJECTS IN TERMS OF DESIGN, CONSTRUCTION,
 MATERIALS, EQUIPMENT, AND INTEGRATION AND
 CONFIGURATION FOR ALL ITS ELEMENTS REFERENCED IN
 THIS PLAN SET.

4" HDPE UNDERGROUND CONDUIT			
72 STR SM	783-1-123	65 LF	
72 STR SM	783-1-123	65 LF	
4" HDPE OUTERDUCT	783-4-112	65 LF	
3-1" HDPE INNERDUCT	783-4-112	195 LF	
72 STR SM	783-1-123	50 LF	
72 STR SM	783-1-123	50 LF	
PULL BOX	783-5-1	1 EA	
+25 (@ RAMP E)			

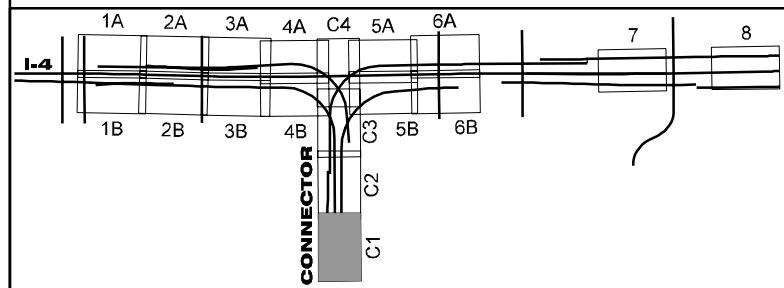


QUANTITIES
 ADDED
 TO IT-21

REFER TO
 FPID 258415-1-52-01
 ITS PLANS FOR
 THE SOUTH SECTION



MATCHLINE STA. 7053+00.00 @ RAMP F, SEE SHEET NO. IT-21



BEGIN FDOT PROJECT No. 258415-2-52-01
 BEGIN CONSTRUCTION
 STA 10027+71.00 @ CONSTRUCTION

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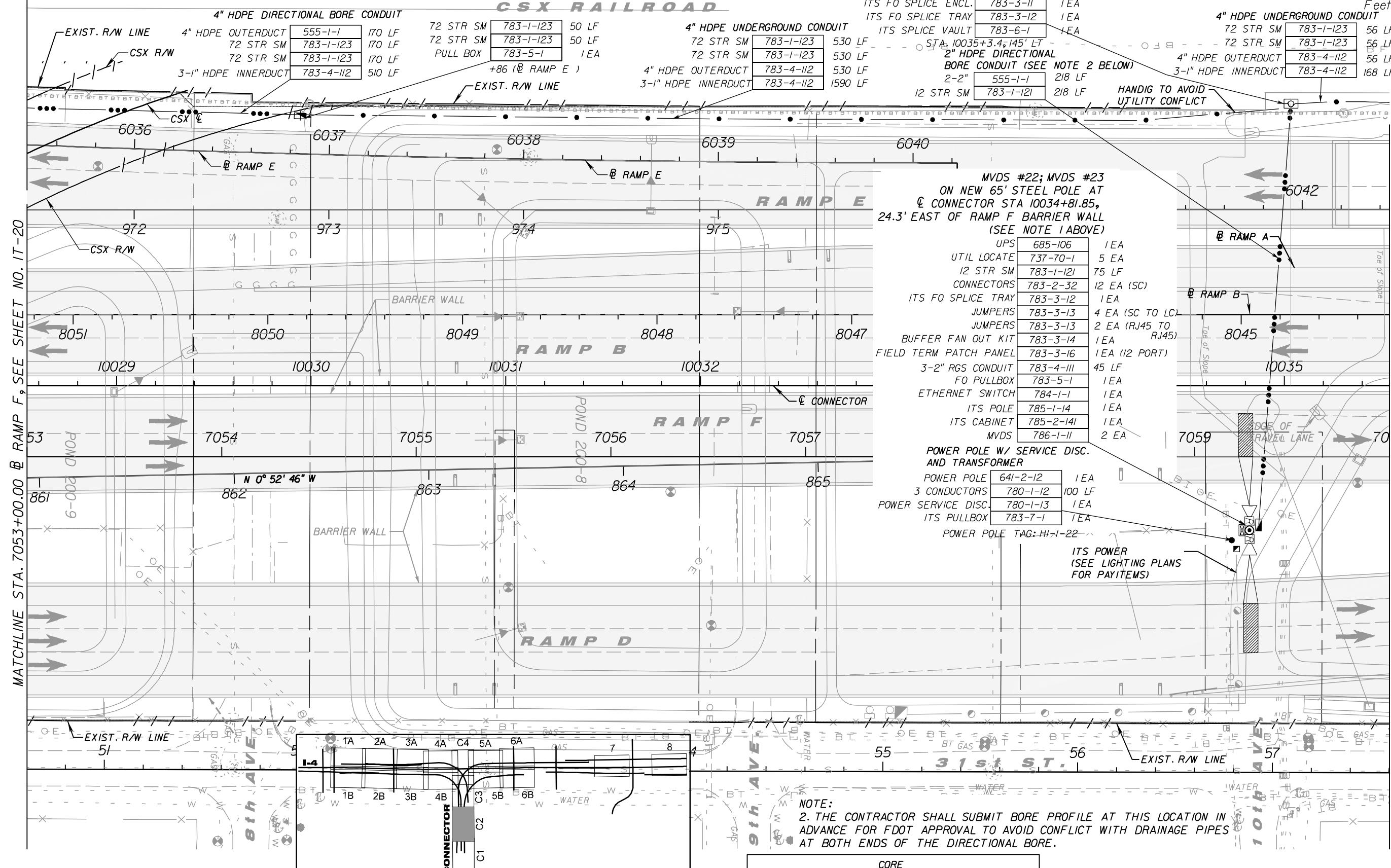
CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (C1)

SHEET
 NO.
 IT-20

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

NOTE:
 1. BOTH MVDS 22 FOR RAMP D AND MVDS 23 FOR RAMP F SHALL BE MOUNTED ON THE SAME STEEL POLE REFERENCED IN PLAN. MVDS 22 AND 23 SHALL BE MOUNTED ON THE POLE SUCH THAT AN APPROXIMATE HEIGHT OF ATLEAST 17' IS ATTAINED ABOVE RAMP D BRIDGE DECK AND RAMP F, RESPECTIVELY.



12 STR SM	783-1-121	100 LF COIL
72 STR SM	783-1-123	200 LF COIL
ITS FO SPLICE	783-2-31	4 EA
ITS FO SPLICE ENCL.	783-3-11	1 EA
ITS FO SPLICE TRAY	783-3-12	1 EA
ITS SPLICE VAULT	783-6-1	1 EA

4" HDPE DIRECTIONAL BORE CONDUIT	555-1-1	170 LF
4" HDPE OUTERDUCT	783-1-123	170 LF
72 STR SM	783-1-123	170 LF
72 STR SM	783-1-123	170 LF
3-1" HDPE INNERDUCT	783-4-112	510 LF

72 STR SM	783-1-123	50 LF
72 STR SM	783-1-123	50 LF
PULL BOX	783-5-1	1 EA

4" HDPE UNDERGROUND CONDUIT	783-1-123	530 LF
72 STR SM	783-1-123	530 LF
72 STR SM	783-1-123	530 LF
4" HDPE OUTERDUCT	783-4-112	530 LF
3-1" HDPE INNERDUCT	783-4-112	1590 LF

2" HDPE DIRECTIONAL BORE CONDUIT (SEE NOTE 2 BELOW)	555-1-1	218 LF
2-2"	783-1-121	218 LF

4" HDPE UNDERGROUND CONDUIT	783-1-123	56 LF
72 STR SM	783-1-123	56 LF
72 STR SM	783-1-123	56 LF
4" HDPE OUTERDUCT	783-4-112	56 LF
3-1" HDPE INNERDUCT	783-4-112	168 LF

MVDS #22; MVDS #23
 ON NEW 65' STEEL POLE AT
 @ CONNECTOR STA 10034+81.85,
 24.3' EAST OF RAMP F BARRIER WALL
 (SEE NOTE 1 ABOVE)

UPS	685-106	1 EA
UTIL LOCATE	737-70-1	5 EA
12 STR SM	783-1-121	75 LF
CONNECTORS	783-2-32	12 EA (SC)
ITS FO SPLICE TRAY	783-3-12	1 EA
JUMPERS	783-3-13	4 EA (SC TO LC)
JUMPERS	783-3-13	2 EA (RJ45 TO RJ45)
BUFFER FAN OUT KIT	783-3-14	1 EA
FIELD TERM PATCH PANEL	783-3-16	1 EA (12 PORT)
3-2" RGS CONDUIT	783-4-111	45 LF
FO PULLBOX	783-5-1	1 EA
ETHERNET SWITCH	784-1-1	1 EA
ITS POLE	785-1-14	1 EA
ITS CABINET	785-2-141	1 EA
MVDS	786-1-11	2 EA

POWER POLE W/ SERVICE DISC. AND TRANSFORMER

POWER POLE	641-2-12	1 EA
3 CONDUCTORS	780-1-12	100 LF
POWER SERVICE DISC.	780-1-13	1 EA
ITS PULLBOX	783-7-1	1 EA

POWER POLE TAG: HI-1-22

ITS POWER
 (SEE LIGHTING PLANS
 FOR PAYITEMS)

NOTE:
 2. THE CONTRACTOR SHALL SUBMIT BORE PROFILE AT THIS LOCATION IN ADVANCE FOR FDOT APPROVAL TO AVOID CONFLICT WITH DRAINAGE PIPES AT BOTH ENDS OF THE DIRECTIONAL BORE.

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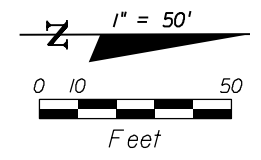
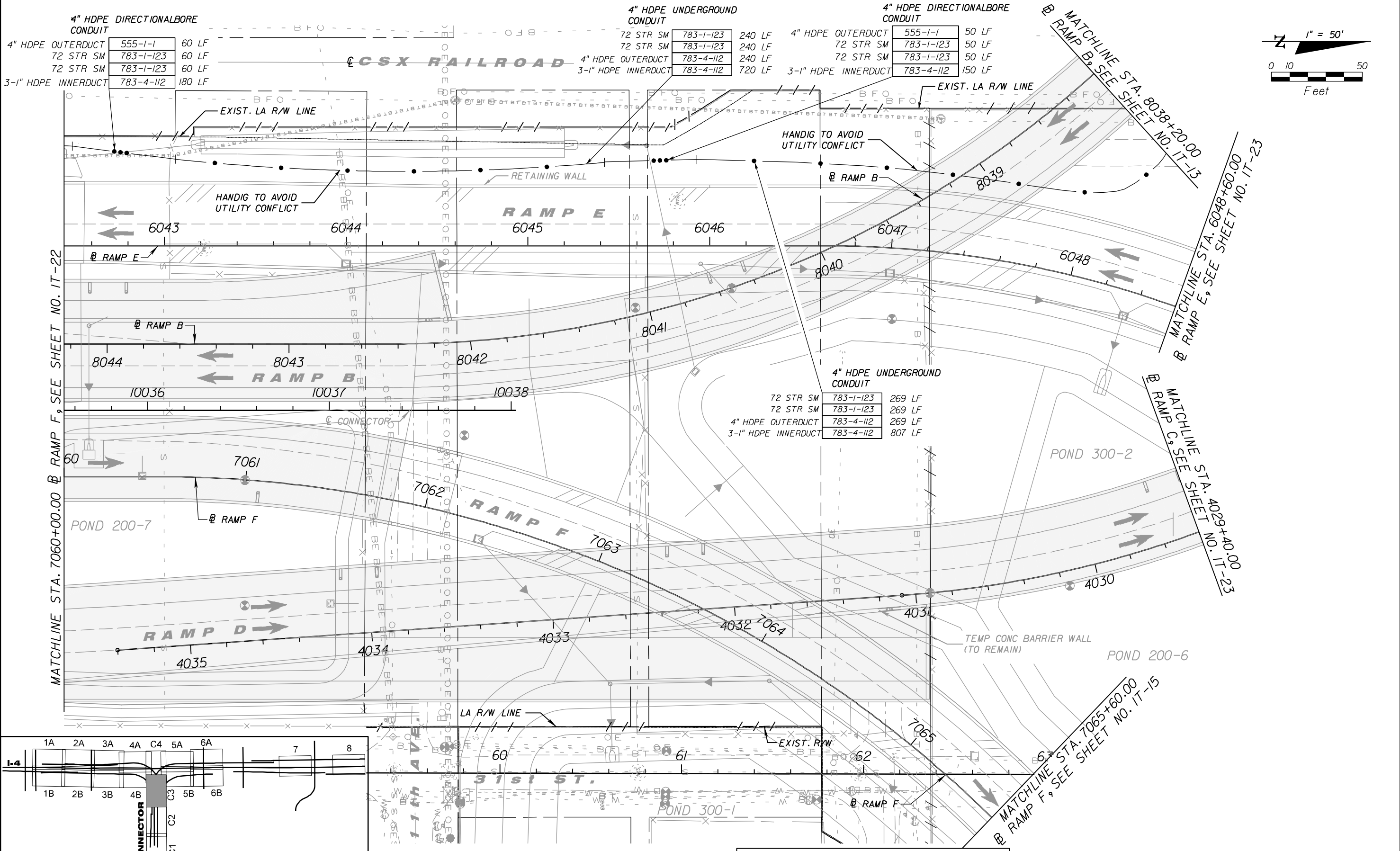
TELVENT FARRADYNE INC.
 225 South Westmonte Dr
 Suite # 1110
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 Ph. (407) 551-3000
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 B.R. Patl, P.E. No. 44097

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (C2)

SHEET NO. IT-21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



4" HDPE DIRECTIONALBORE CONDUIT

4" HDPE OUTERDUCT	555-1-1	60 LF
72 STR SM	783-1-123	60 LF
72 STR SM	783-1-123	60 LF
3-1" HDPE INNERDUCT	783-4-112	180 LF

4" HDPE UNDERGROUND CONDUIT

72 STR SM	783-1-123	240 LF
72 STR SM	783-1-123	240 LF
4" HDPE OUTERDUCT	783-4-112	240 LF
3-1" HDPE INNERDUCT	783-4-112	720 LF

4" HDPE DIRECTIONALBORE CONDUIT

4" HDPE OUTERDUCT	555-1-1	50 LF
72 STR SM	783-1-123	50 LF
72 STR SM	783-1-123	50 LF
3-1" HDPE INNERDUCT	783-4-112	150 LF

4" HDPE UNDERGROUND CONDUIT

72 STR SM	783-1-123	269 LF
72 STR SM	783-1-123	269 LF
4" HDPE OUTERDUCT	783-4-112	269 LF
3-1" HDPE INNERDUCT	783-4-112	807 LF

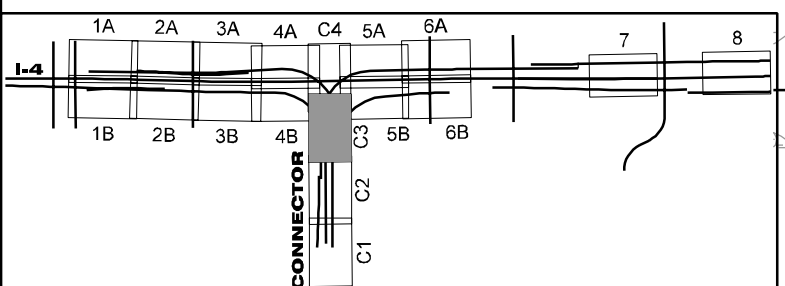
MATCHLINE STA. 7060+00.00 @ RAMP F, SEE SHEET NO. IT-22

MATCHLINE STA. 8038+20.00 @ RAMP B, SEE SHEET NO. IT-13

MATCHLINE STA. 6048+60.00 @ RAMP E, SEE SHEET NO. IT-23

MATCHLINE STA. 4029+40.00 @ RAMP C, SEE SHEET NO. IT-23

MATCHLINE STA. 7065+60.00 @ RAMP F, SEE SHEET NO. IT-15



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CORE		
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

ITS PLAN SHEET (C3)

SHEET NO.
IT-22

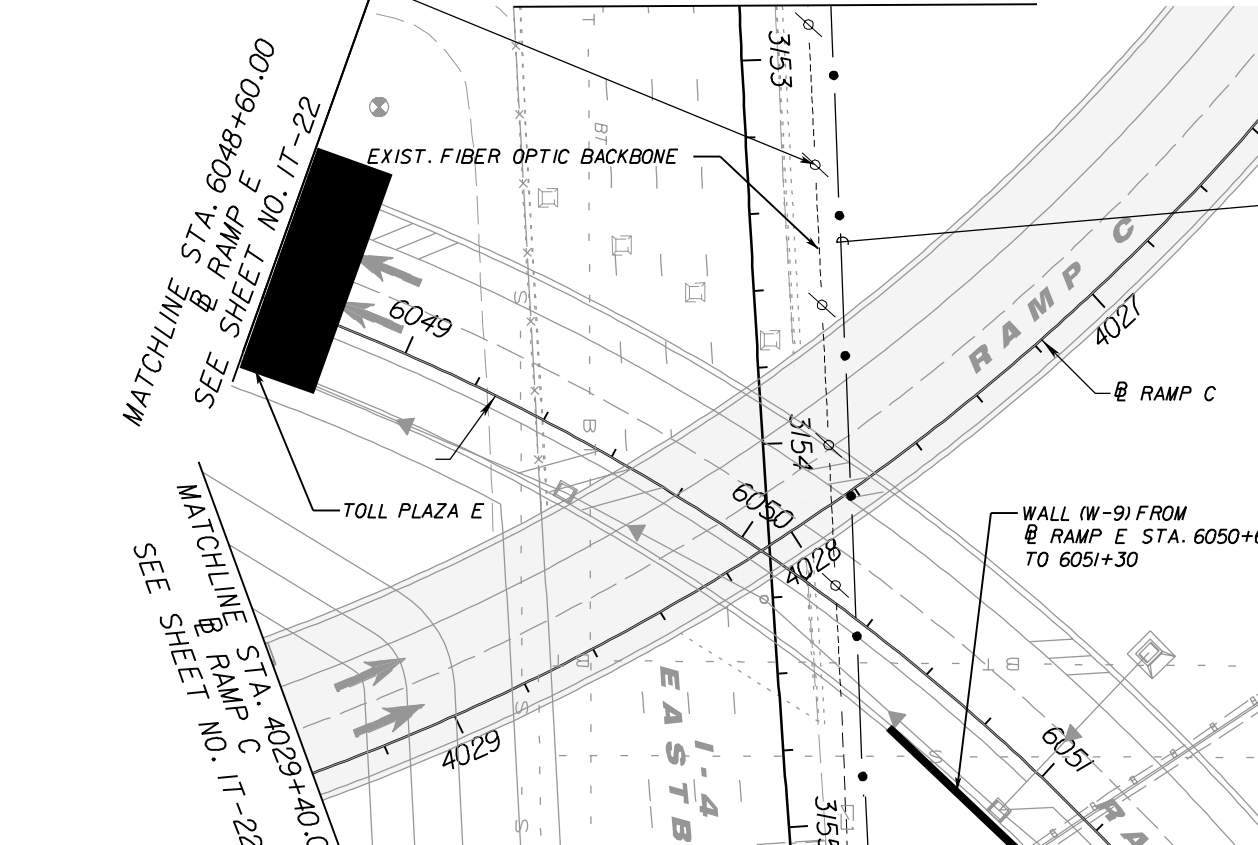
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NOTE: CONDUITS UNDER RAMP 'E' SHALL BE LAID UNDERGROUND DURING CONSTRUCTION OF RAMP 'E' TO AVOID DIRECTIONAL BORES "LATER". THE CONTRACTOR SHALL ENSURE THAT THE ITS CONDUIT SHALL NOT INTERFERE WITH THE RAMP E WALL (W-9) SHEET PILE WHICH EXTENDS FROM RAMP E @ STA.6050+60 TO STA.6051+30.

2-72 STR SM FOC
IN EXISTING 1-4 INNERDUCTS

72 STR SM	783-1-123	355 LF
72 STR SM	783-1-123	355 LF

MATCHLINE STA. 3152+80.57 1-4 EB, SEE SHEET NO. IT-13



12 STR SM	783-1-121	50 LF SPARE
72 STR SM	783-1-123	50 LF SPARE
72 STR SM	783-1-123	50 LF SPARE
FO PULLBOX	783-5-1	1EA
1-4 @ STA. 3811+91; 107' RT		

4" HDPE UNDERGROUND CONDUIT (HANDDIG TO AVOID CONFLICT WITH EXISTING FIBER AND UTILITIES)

12 STR SM	783-1-121	61 LF
72 STR SM	783-1-123	61 LF
72 STR SM	783-1-123	61 LF
1-2"	783-4-112	61 LF
4" HDPE OUTERDUCT	783-4-112	61 LF
3-1" HDPE INNERDUCT	783-4-112	183 LF

12 STR	783-1-121	100 LF
72 STR	783-1-123	200 LF
72 STR	783-1-123	200 LF
ITS FO SPLICE	783-2-31	8 EA
ITS FO SPLICE ENCL.	783-3-11	1EA
ITS FO SPLICE TRAY	783-3-12	1EA
ITS SPLICE BOX	783-6-1	1EA
1-4 @ STA. 3812+33; 105' RT		

EXISTING SPLICE VAULT

72 STR	783-1-123	50 LF COIL
72 STR	783-1-123	50 LF COIL
1-4 @ STA. 3812+42; 108' RT		

MATCHLINE STA. 6052+80.00 @ RAMP E
SEE SHEET NO. IT-14

4" HDPE UNDERGROUND CONDUIT

72 STR SM	783-1-123	288 LF
72 STR SM	783-1-123	288 LF
4" HDPE OUTERDUCT	783-4-112	280 LF
3-1" HDPE INNERDUCT	783-4-112	840 LF

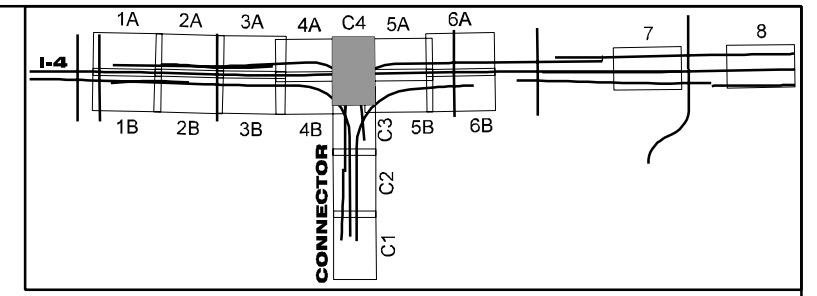
2-2" HDPE UNDERGROUND CONDUIT (SEE NOTE)

12 STR SM	783-1-121	190 LF
2-2"	783-4-112	315 LF
FO PULLBOX	783-5-1	1EA

2" HDPE UNDERGROUND CONDUIT

12 STR SM	783-1-121	160 LF
1-2"	783-4-112	160 LF

12 STR SM (SPARE) 783-1-121 50 LF
FO PULLBOX 783-5-1 1EA



CCTV # 5
80' STEEL POLE WITH LOWERING DEVICE
AT 1-4 @ STA. 3811+20.25, 166' LT;
1-4 CD WB STA. 2170+68.62

UPS	685-106	1EA
UTIL LOCATE	737-70-1	5 EA
SERVICE WIRES	780-1-12	100 LF
CCTV	782-1-11	1EA
12 STR SM	783-1-121	75 LF
CONNECTORS	783-2-32	12 EA (SC)
ITS FO SPLICE TRAY	783-3-12	1EA
JUMPERS	783-3-13	4 EA (SC TO LC)
JUMPERS	783-3-13	1EA (RJ45 TO RJ45)
BUFFER FAN OUT KIT	783-3-14	1EA
FIELD TERM PATCH PANEL	783-3-16	1EA (12 PORT)
3-2" RGS CONDUIT	783-4-111	50 LF
ETHERNET SWITCH	784-1-1	1EA
ENCODER	784-3-11	1EA
ITS POLE	785-1-12	1EA
ITS CABINET	785-2-141	1EA

12 STR SM (SPARE) 783-1-121 100 LF
ITS FO SPLICE 783-2-31 4 EA
ITS FO SPLICE ENCL. 783-3-11 1EA
ITS FO SPLICE TRAY 783-3-12 1EA
ITS SPLICE VAULT 783-6-1 1EA

1-4 @ STA. 3811+30 161.7' LT
POWER POLE W/ SERVICE DISC

POWER POLE	641-2-12	1EA
3 CONDUCTORS	780-1-12	100 LF
POWER SERVICE DISC	780-1-13	1EA
ITS PULLBOX	783-7-1	1EA

2-2" HDPE UNDERGROUND CONDUIT

3 CONDUCTORS	780-1-12	456 LF
12 STR SM	783-1-121	152 LF
2-2"	783-4-112	304 LF

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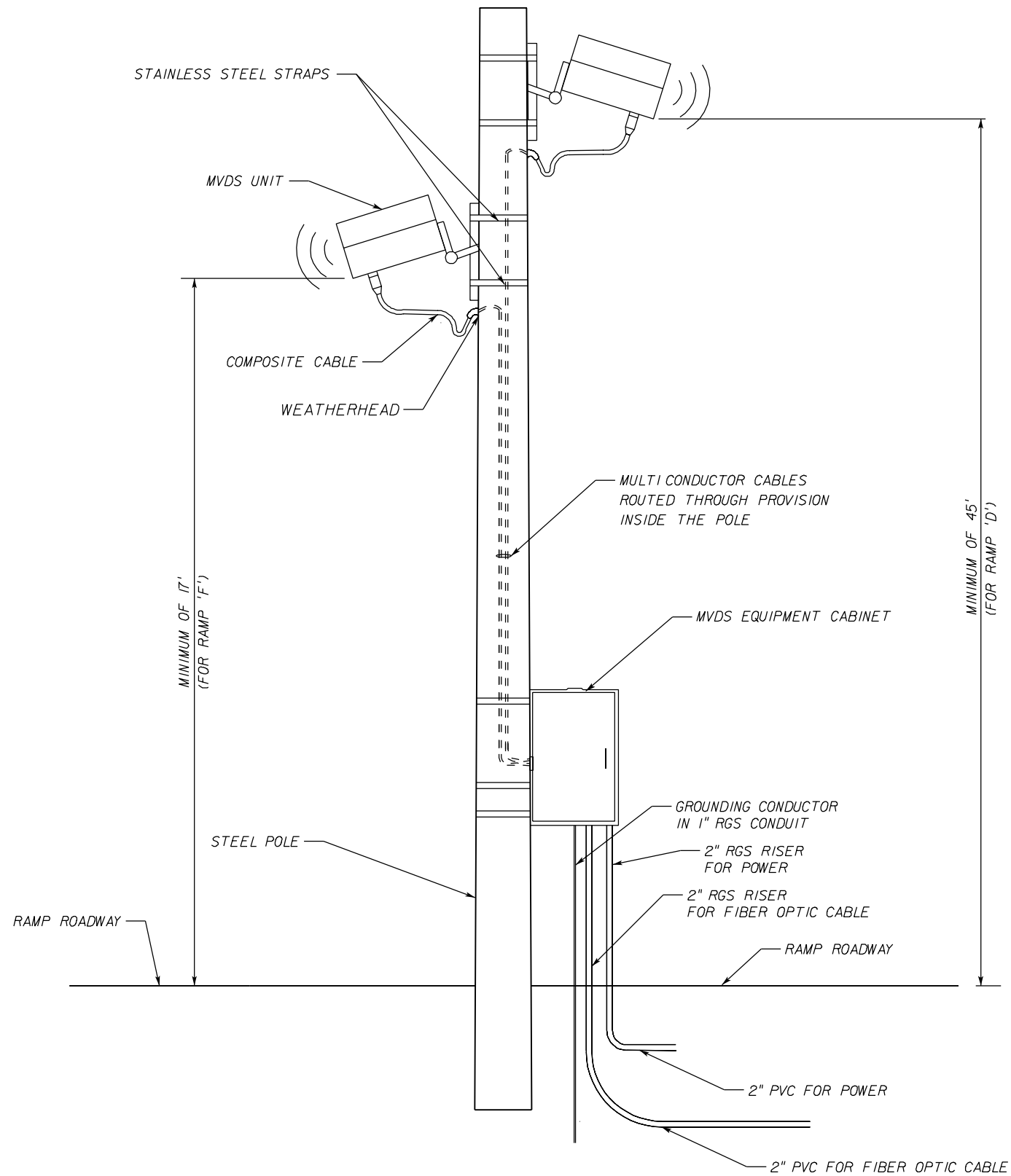
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

MATCHLINE STA. 2172+20.00, SHEET NO. IT-14

ITS PLAN SHEET (C4)

SHEET NO. IT-23

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NOTES:

1. MOUNTING BRACKET SHALL BE SUPPLIED BY MVDS MANUFACTURER AS PART OF THE MVDS ASSEMBLY. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. MVDS SHALL BE BANDED TO POLE USING STAINLESS STEEL STRAPS. NO FIELD DRILLING OR FIELD WELDING PERMITTED.
3. MAIN GROUND ROD SHALL BE INSTALLED. ADDITIONAL RODS SHALL BE INSTALLED AS NECESSARY TO ATTAIN < 5 OHM OR LESS GROUNDING SYSTEM.
4. REFER TO PLAN SHEET IT-46 FOR RECOMMENDED MVDS MOUNTING HEIGHT.

TYPICAL TWO MVDS INSTALLATION
N.T.S

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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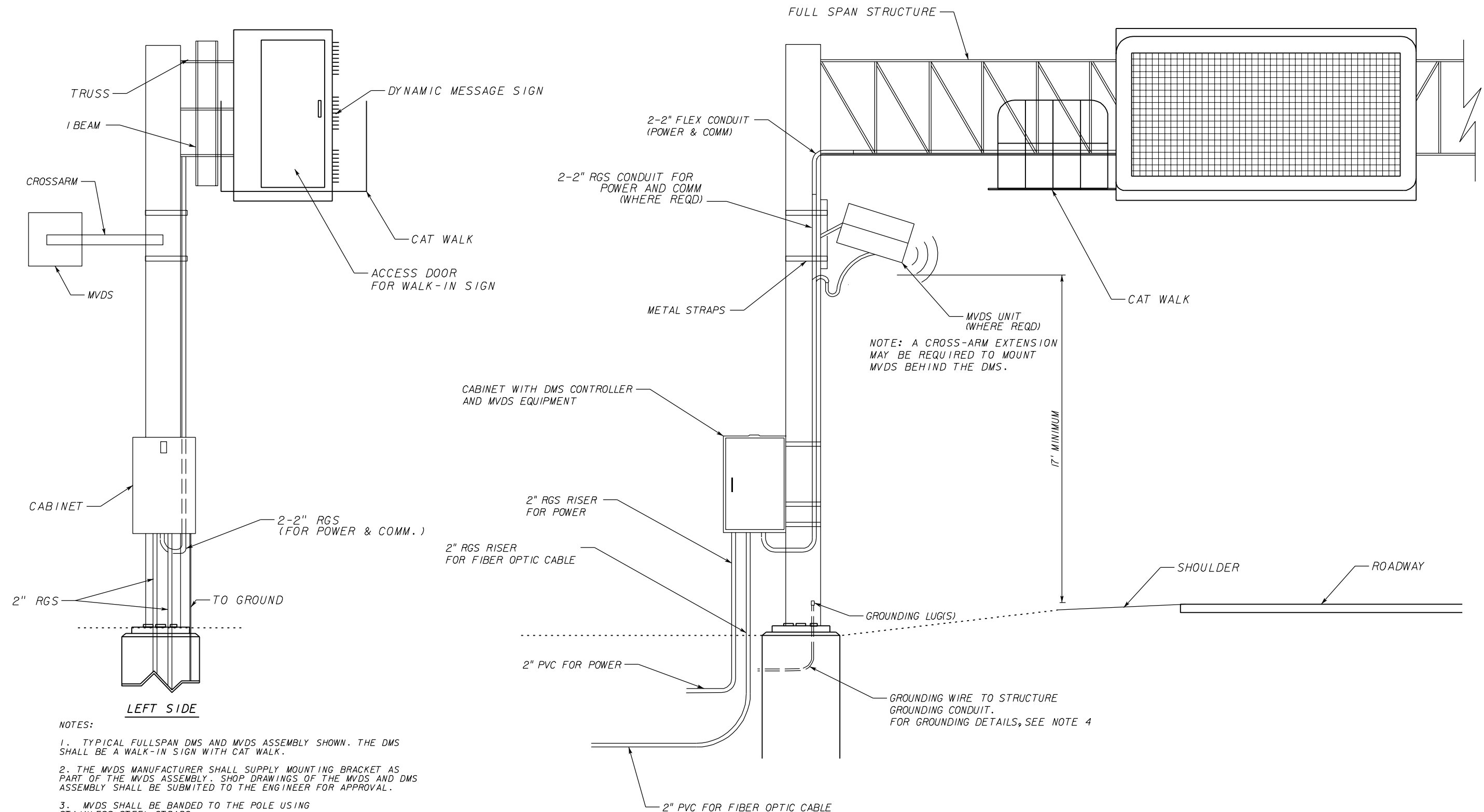
TELVENT FARRADYNE INC.
225 South Westmonte Dr
Suite # 1110
Altamonte Springs, FL 32714
Ph. (407) 551-3000
Fax: (407) 551-3010
B.R. Patl, P.E. No. 44097

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

DEVICE INSTALLATION DET
MVDS

SHEET NO.
IT-24

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:

1. TYPICAL FULLSPAN DMS AND MVDS ASSEMBLY SHOWN. THE DMS SHALL BE A WALK-IN SIGN WITH CAT WALK.
2. THE MVDS MANUFACTURER SHALL SUPPLY MOUNTING BRACKET AS PART OF THE MVDS ASSEMBLY. SHOP DRAWINGS OF THE MVDS AND DMS ASSEMBLY SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. MVDS SHALL BE Banded TO THE POLE USING STAINLESS STEEL STRAPS.
4. SEE FDOT DESIGN STANDARDS, INDEX NO. 18305 (SHEETS 1 AND 2) FOR DMS GROUNDING DETAILS.
5. FOR TYPICAL DMS MOUNTING DETAILS, SEE FDOT DESIGN STANDARDS, INDEX NO. 18302.
6. DMS DIMENSIONS ARE AS PER SHOWN ON PLAN SHEETS. DETAILED SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR.

TYPICAL DMS AND MVDS INSTALLATION

N.T.S

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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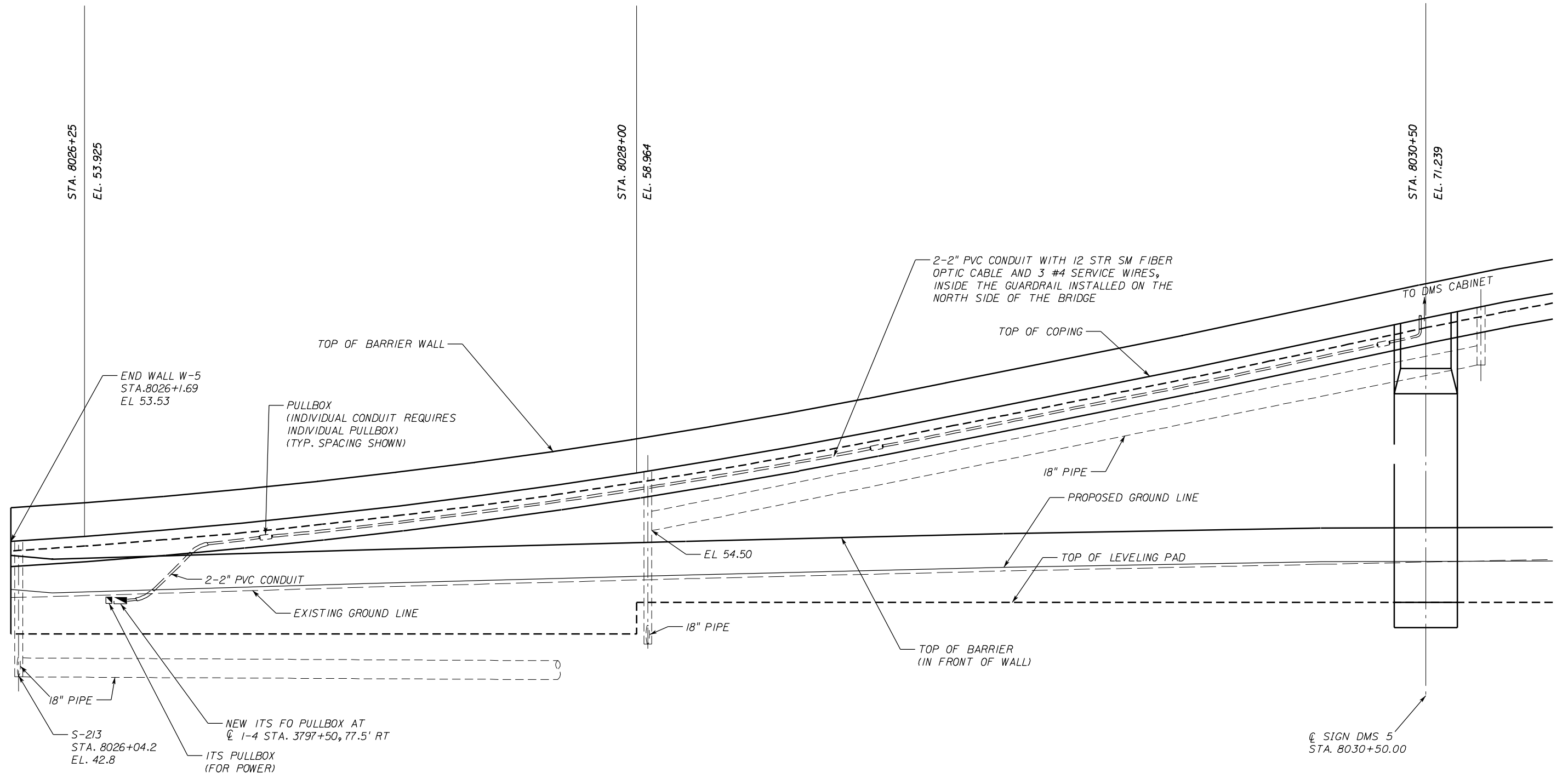
CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**DEVICE INSTALLATION DET
DMS AND MVDS**

SHEET NO.

IT-25

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



TYPICAL BRIDGE MOUNT CONDUIT DETAILS

ELEVATION (N.T.S)

- NOTES:
1. THE BRIDGE MOUNT CONDUIT IS INSTALLED ON THE NORTH SIDE OF THE BRIDGE. SEE SHEET IT-II.
 2. TYPICAL BRIDGE MOUNT CONDUIT INSIDE GUARDRAIL IS SHOWN. FOR MORE DETAILS, SEE UTILITY CONDUIT DETAILS, FDOT DESIGN STANDARDS INDEX 21210.
 3. TYPICAL PULLBOX FOR INDIVIDUAL CONDUIT IS SHOWN, FOR MORE DETAILS REFER TO PULLBOX "B" DETAIL, UTILITY CONDUIT DETAILS, FDOT DESIGN STANDARDS INDEX 21210.

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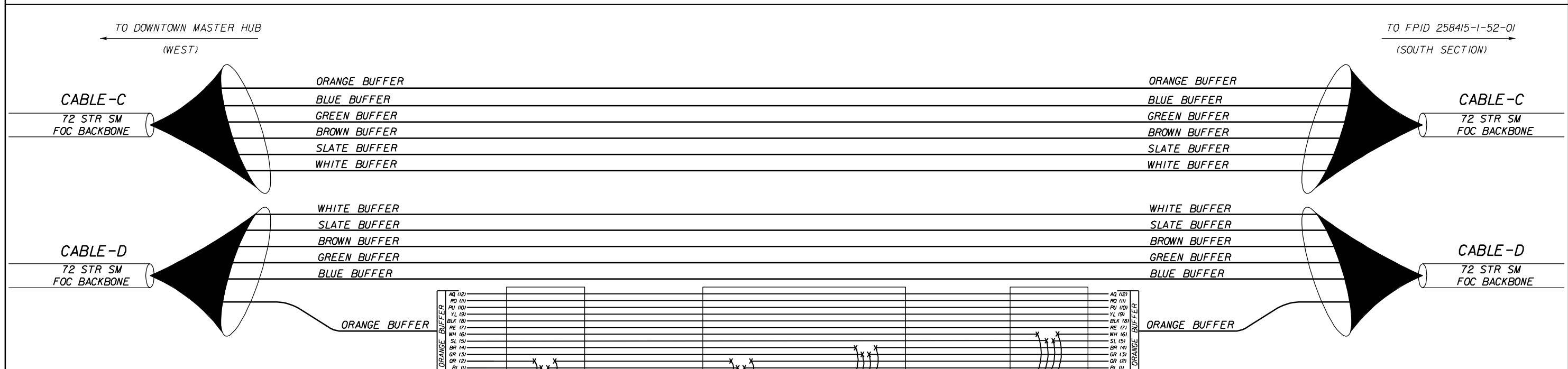
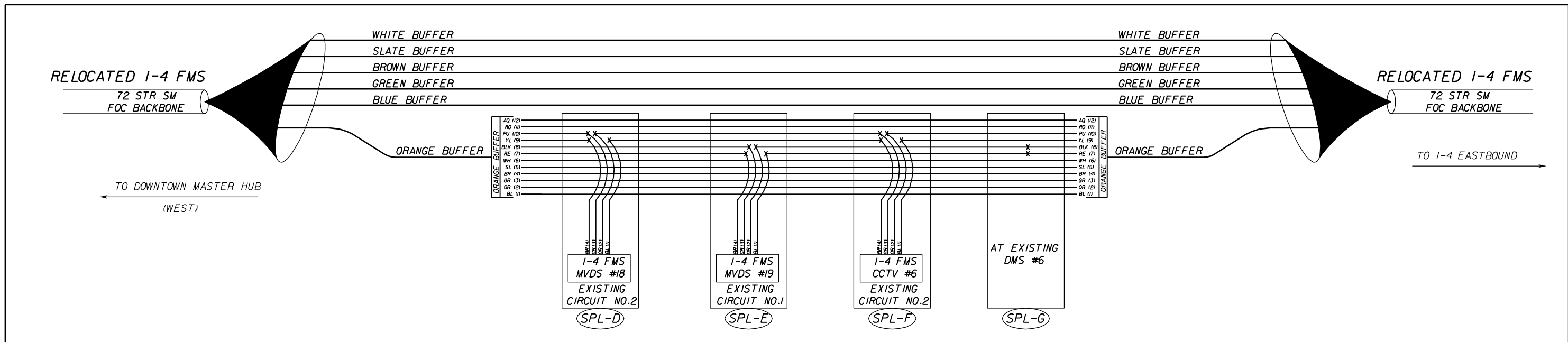
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 225 South Westmonte Dr
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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TYPICAL DETAILS
BRIDGE MOUNT CONDUIT

SHEET NO.
 IT-26

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LEGEND

 (1) BL BLUE
 (2) OR ORANGE
 (3) GR GREEN
 (4) BR BROWN
 (5) SL SLATE
 (6) WH WHITE
 (7) RE RED
 (8) BLK BLACK
 (9) YL YELLOW
 (10) PU PURPLE
 (11) RO ROSE
 (12) AQ AQUA

 X FUSION SPLICE
 ◊ UNTERMINATED FIBER
 ● SPLICE BUFFER TO BUFFER

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 225 South Westmonte Dr
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 Altamonte Springs, FL 32714
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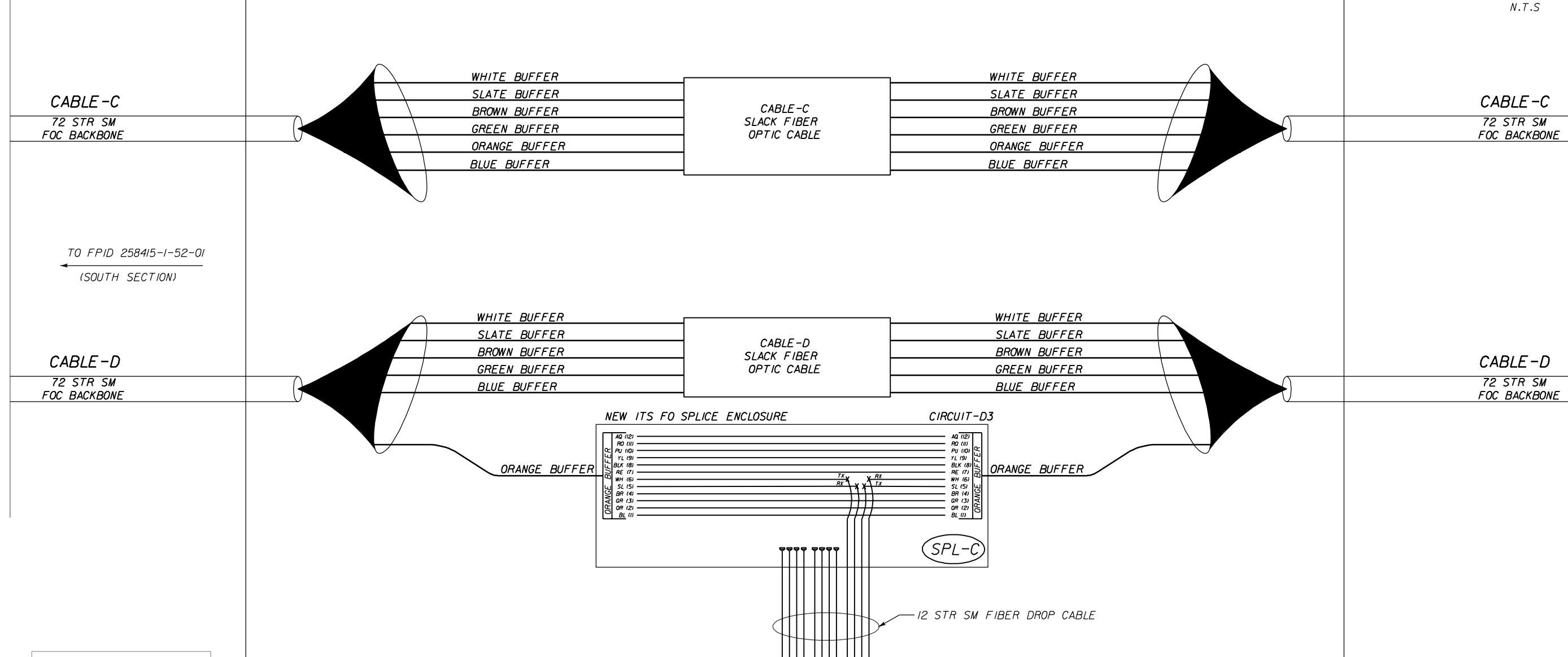
CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

FIBER SPLICING PLAN
 SHEET NO. IT-27

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NEW ITS SPLICE VAULT AT @ CONNECTOR STA. 10035+3.5; 145' LT

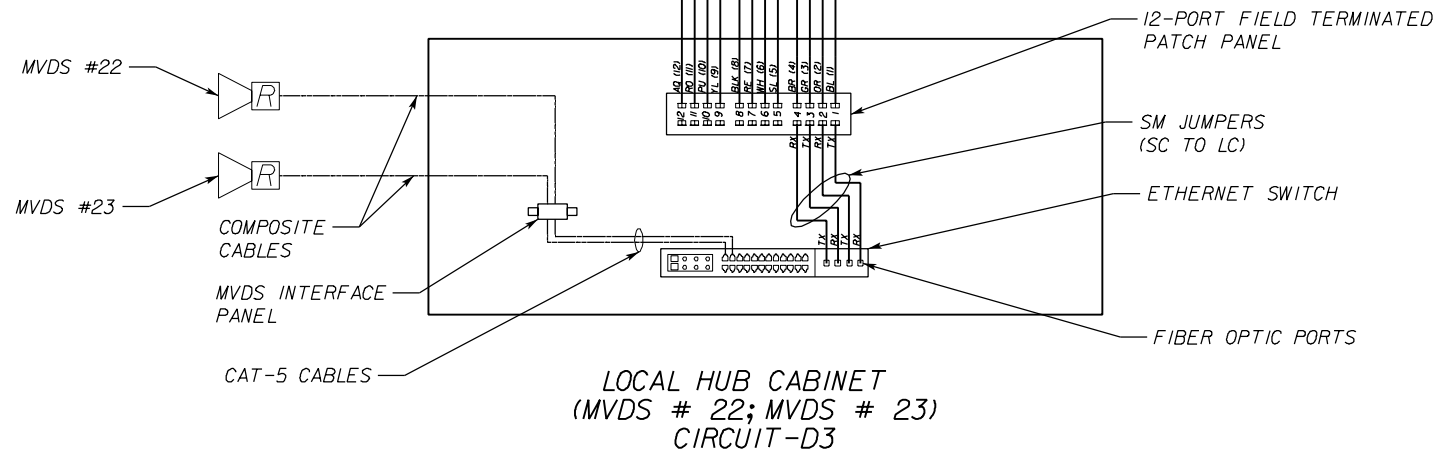


MATCH LINE, SEE SHEET NO. IT-29

LEGEND

- (1) BL BLUE
- (2) OR ORANGE
- (3) GR GREEN
- (4) BR BROWN
- (5) SL SLATE
- (6) WH WHITE
- (7) RE RED
- (8) BLK BLACK
- (9) YL YELLOW
- (10) PU PURPLE
- (11) RO ROSE
- (12) AQ AQUA

X FUSION SPLICE
 ◻ UNTERMINATED FIBER



REFERENCE IT PLAN SHEET
 IT-21

REVISIONS						 Cert. of Auth. No. 27128	TELVENT 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax (407) 551-3010 B.R. Patl, P.E. No. 44097	CORE			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	FO SPLICING DET (C) MVDS-22 AND MVDS-23	SHEET NO. IT-28
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
							SR 400	HILLSBOROUGH	258415-2-52-01				

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MATCH LINE, SEE SHEET NO. IT-30

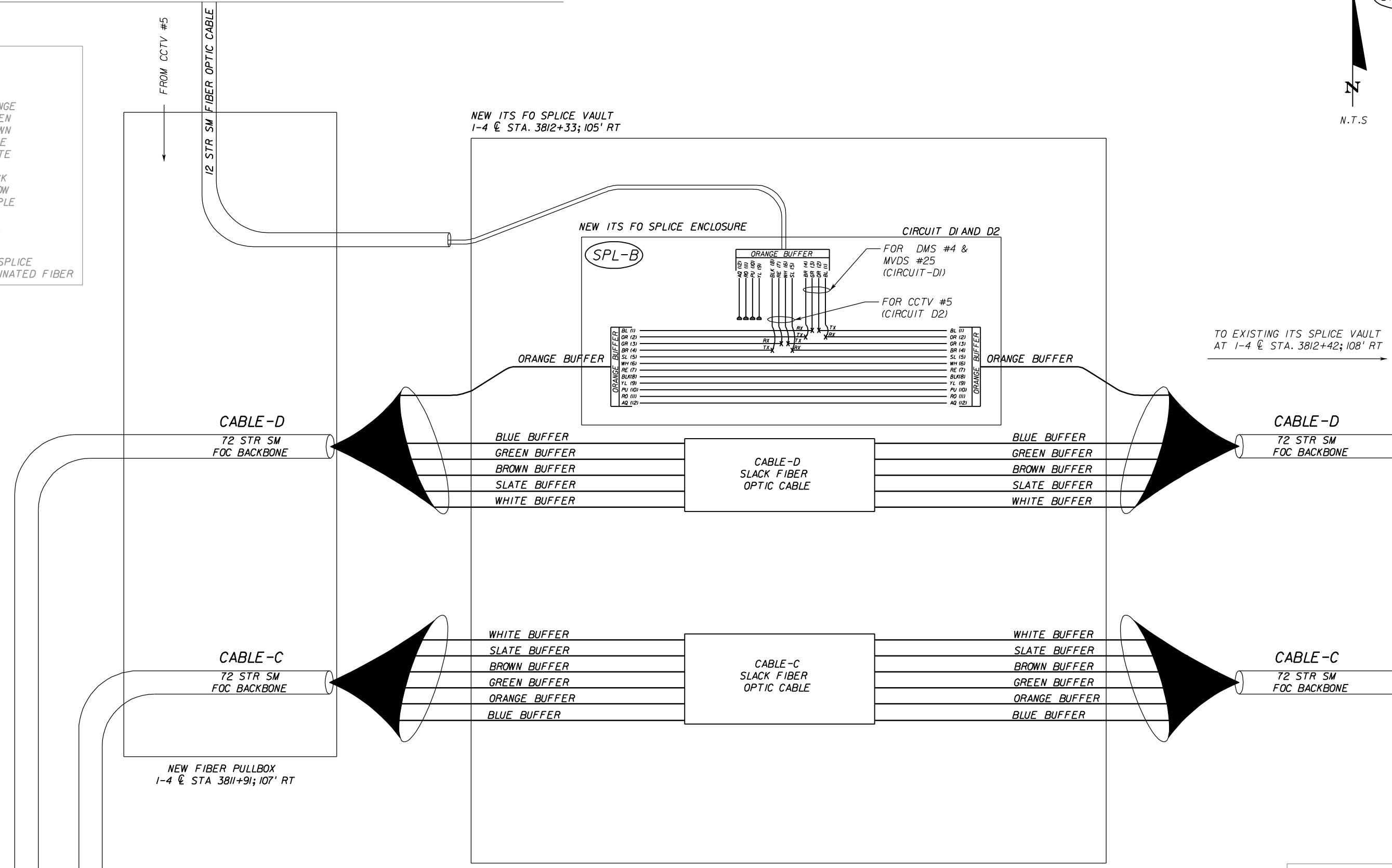
SPL-B



LEGEND

(1) BL BLUE
 (2) OR ORANGE
 (3) GR GREEN
 (4) BR BROWN
 (5) SL SLATE
 (6) WH WHITE
 (7) RE RED
 (8) BLK BLACK
 (9) YL YELLOW
 (10) PU PURPLE
 (11) RO ROSE
 (12) AQ AQUA

X FUSION SPLICE
 ◻ UNTERMINATED FIBER



MATCH LINE, SEE SHEET NO. IT-31

MATCH LINE, SEE SHEET NO. IT-28

REFERENCE IT PLAN SHEET
 IT-23

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

FO SPLICING DET (B)
CCTV 5, DMS 4 & MVDS 25

SHEET NO.
 IT-29

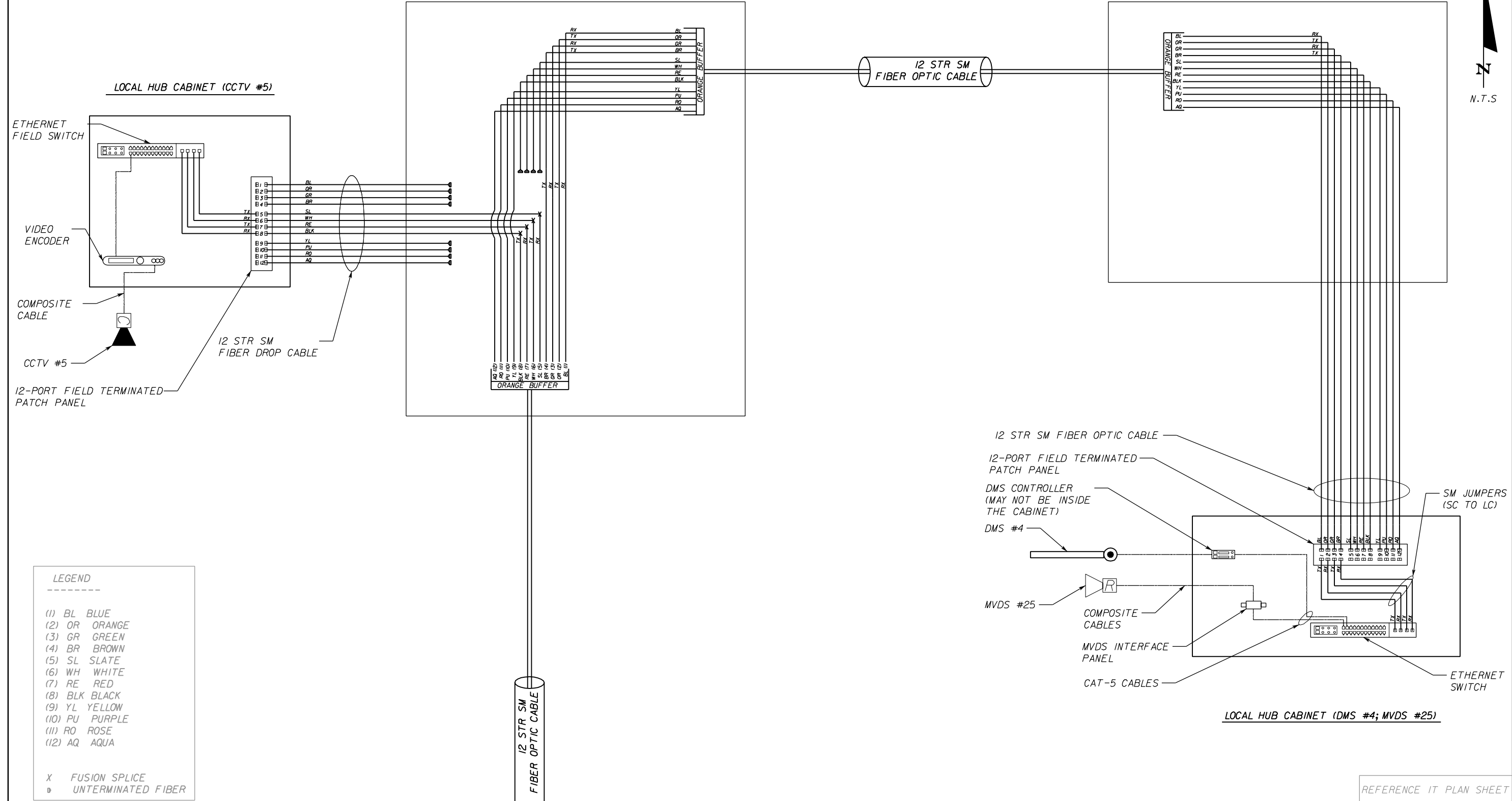
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TO I-4 EAST →



NEW ITS FO SPLICE VAULT WITH SPLICE ENCLOSURE
I-4 @ STA. 3811 + 30; 162' LT

NEW FIBER PULLBOX
I-4 @ STA. 3815 ; 156' LT



LEGEND

(1) BL BLUE
 (2) OR ORANGE
 (3) GR GREEN
 (4) BR BROWN
 (5) SL SLATE
 (6) WH WHITE
 (7) RE RED
 (8) BLK BLACK
 (9) YL YELLOW
 (10) PU PURPLE
 (11) RO ROSE
 (12) AQ AQUA

X FUSION SPLICE
 D UNTERMINATED FIBER

MATCH LINE, SEE SHEET NO. IT-29

REFERENCE IT PLAN SHEET
IT-23; IT-14

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**FO SPLICING DET
CCTV 5 & DMS 4 CABINETS**

SHEET NO.
IT-30

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EXISTING ITS FO SPLICE VAULT
 I-4 @ STA. 3812+42; 108' RT



LEGEND

(1) BL BLUE
 (2) OR ORANGE
 (3) GR GREEN
 (4) BR BROWN
 (5) SL SLATE
 (6) WH WHITE
 (7) RE RED
 (8) BLK BLACK
 (9) YL YELLOW
 (10) PU PURPLE
 (11) RO ROSE
 (12) AQ AQUA

X FUSION SPLICE
 ▽ UNTERMINATED FIBER

MATCH LINE, SEE SHEET NO. IT-29

MATCH LINE, SEE SHEET NO. IT-32

CABLE - C
 72 STR SM
 FOC BACKBONE

CABLE - D
 72 STR SM
 FOC BACKBONE

CABLE - C
 72 STR SM
 FOC BACKBONE

CABLE - D
 72 STR SM
 FOC BACKBONE

WHITE BUFFER
 SLATE BUFFER
 BROWN BUFFER
 GREEN BUFFER
 ORANGE BUFFER
 BLUE BUFFER

WHITE BUFFER
 SLATE BUFFER
 BROWN BUFFER
 GREEN BUFFER
 ORANGE BUFFER
 BLUE BUFFER

I-4 WEST

EXISTING I-4 FMS 4" OUTERDUCT
 WITH THREE INNERDUCTS

EXISTING WHITE INNERDUCT NEW 72 STR SM FIBER OPTIC CABLE
 EXISTING GRAY INNERDUCT NEW 72 STR SM FIBER OPTIC CABLE

EXISTING RED INNERDUCT

EXISTING I-4 FMS 4" OUTERDUCT
 WITH THREE INNERDUCTS

REFERENCE IT PLAN SHEET

IT-23

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**FO SPLICING DET
 CABLE 'C' & 'D'**

SHEET
 NO.
 IT-31

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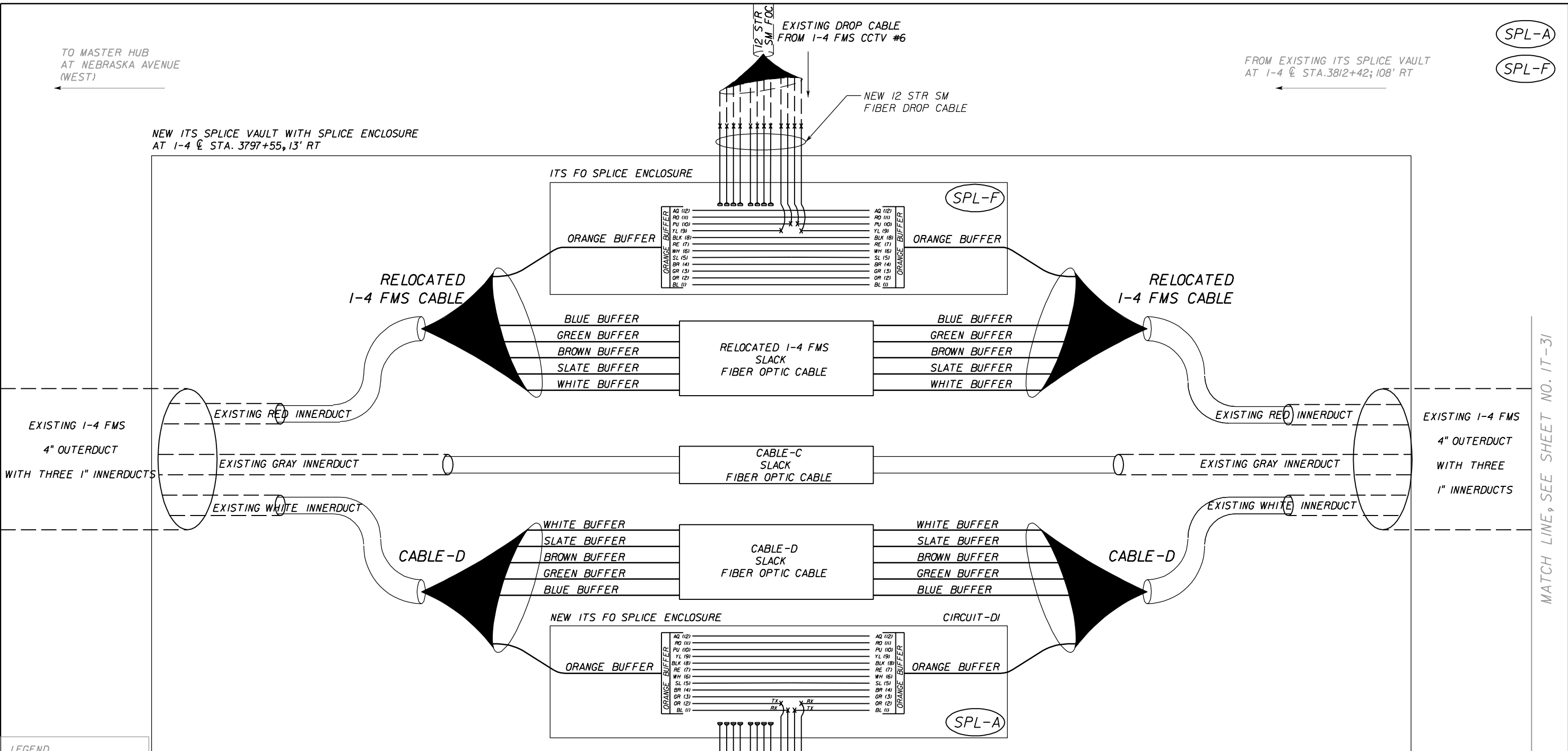
TO MASTER HUB
AT NEBRASKA AVENUE
(WEST)

FROM EXISTING ITS SPLICE VAULT
AT 1-4 STA. 3812+42; 108' RT

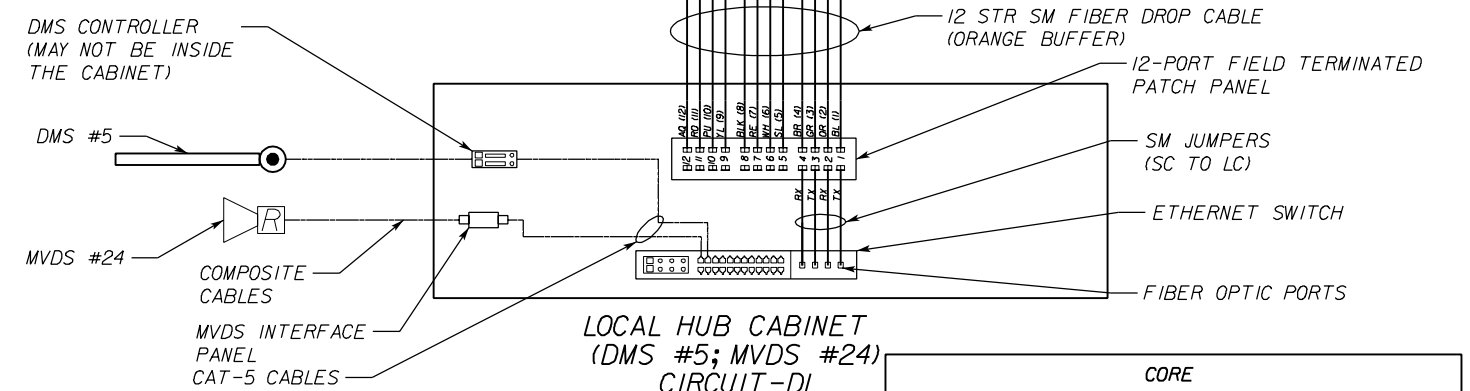
SPL-A

SPL-F

NEW ITS SPLICE VAULT WITH SPLICE ENCLOSURE
AT 1-4 STA. 3797+55, 13' RT



- LEGEND**
- (1) BL BLUE
 - (2) OR ORANGE
 - (3) GR GREEN
 - (4) BR BROWN
 - (5) SL SLATE
 - (6) WH WHITE
 - (7) RE RED
 - (8) BLK BLACK
 - (9) YL YELLOW
 - (10) PU PURPLE
 - (11) RO ROSE
 - (12) AQ AQUA
- X FUSION SPLICE
D UNTERMINATED FIBER



NOTE:
SPLICING PLAN FOR EXISTING DEVICES AS SHOWN
ARE SAME AS ORIGINALLY DONE UNDER 1-4 FMS PROJECT

REFERENCE IT PLAN SHEET

IT-II

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

FO SPLICING DET (A) (F)
DMS 5 AND MVDS 24

SHEET NO.
IT-32

MATCH LINE, SEE SHEET NO. IT-31

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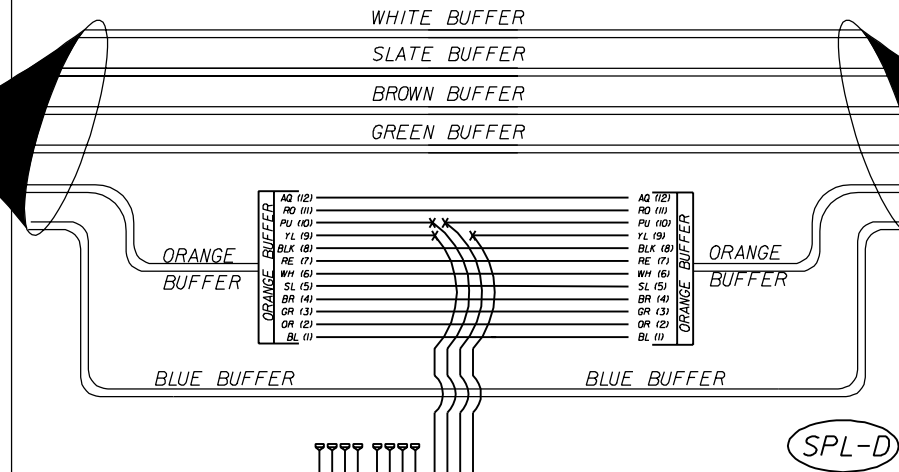
NEW ITS FO SPLICE VAULT WITH SPLICE ENCLOSURE
AT 1-4 @ STA.3782+71, 111'RT

CABLE-C
SLACK
FIBER OPTIC CABLE

CABLE-D
SLACK
FIBER OPTIC CABLE

NEW ITS FO SPLICE ENCLOSURE

RELOCATED 1-4 FMS
72 STR SM
FIBER OPTIC CABLE

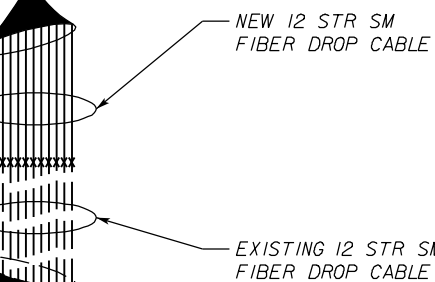


RELOCATED 1-4 FMS
72 STR SM
FIBER OPTIC CABLE

SPL-D

NOTE:
IN THE SAME SPLICE VAULT, EXISTING 1-4 FMS CABLE
(72 STR SM) IS ALSO SPLICED WITH RELOCATED 1-4 FMS
CABLE (72 STR SM). SEE SHEET IT-35 FOR SPLICING
DETAILS.

NEW ITS FO SPLICE VAULT WITH SPLICE ENCLOSURE
AT STA.3784+41.7, 116'RT



NOTE:
SPLICING PLAN FOR EXISTING DEVICES AS SHOWN
ARE SAME AS ORIGINALLY DONE UNDER 1-4 FMS PROJECT

EXISTING DROP CABLE
FROM MVDS #19

RELOCATED 1-4 FMS SPLICE VAULT
AT EXISTING MVDS #18
(@ CONST.S.R.400 (1-4) STA. 3784+41.5, 13.5' RT)

REFERENCE IT PLAN SHEET

IT-7

LEGEND

- (1) BL BLUE
- (2) OR ORANGE
- (3) GR GREEN
- (4) BR BROWN
- (5) SL SLATE
- (6) WH WHITE
- (7) RE RED
- (8) BLK BLACK
- (9) YL YELLOW
- (10) PU PURPLE
- (11) RO ROSE
- (12) AQ AQUA

- X FUSION SPLICE
- o UNTERMINATED FIBER

REVISIONS

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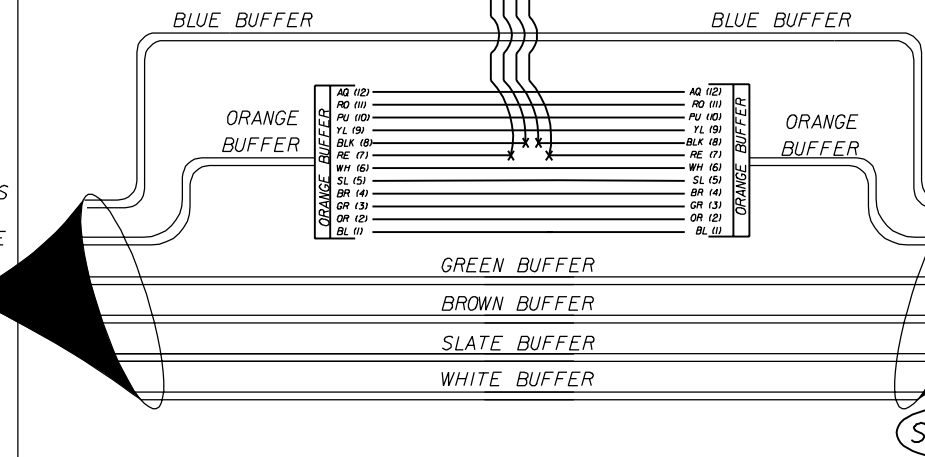
NEW ITS FO SPLICE VAULT WITH SPLICE ENCLOSURE
AT 1-4 @ STA.3790+92, 13.5'RT

EXISTING DROP CABLE
FROM MVDS #19

12 STR SM
FOC

NEW ITS FO SPLICE ENCLOSURE

RELOCATED 1-4 FMS
72 STR SM
FIBER OPTIC CABLE



RELOCATED 1-4 FMS
72 STR SM
FIBER OPTIC CABLE

SPL-E

NOTE:
SPLICING PLAN FOR EXISTING DEVICES AS SHOWN
ARE SAME AS ORIGINALLY DONE UNDER 1-4 FMS PROJECT

NEW 1-4 FMS SPLICE VAULT
AT EXISTING MVDS #19
(@ CONST.S.R.400 (1-4) STA. 3790+92, 13.5'RT)

REFERENCE IT PLAN SHEET

IT-9

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

FO SPLICING DET (D) (E)
1-4 FMS MVDS 18 AND 19

SHEET
NO.

IT-33

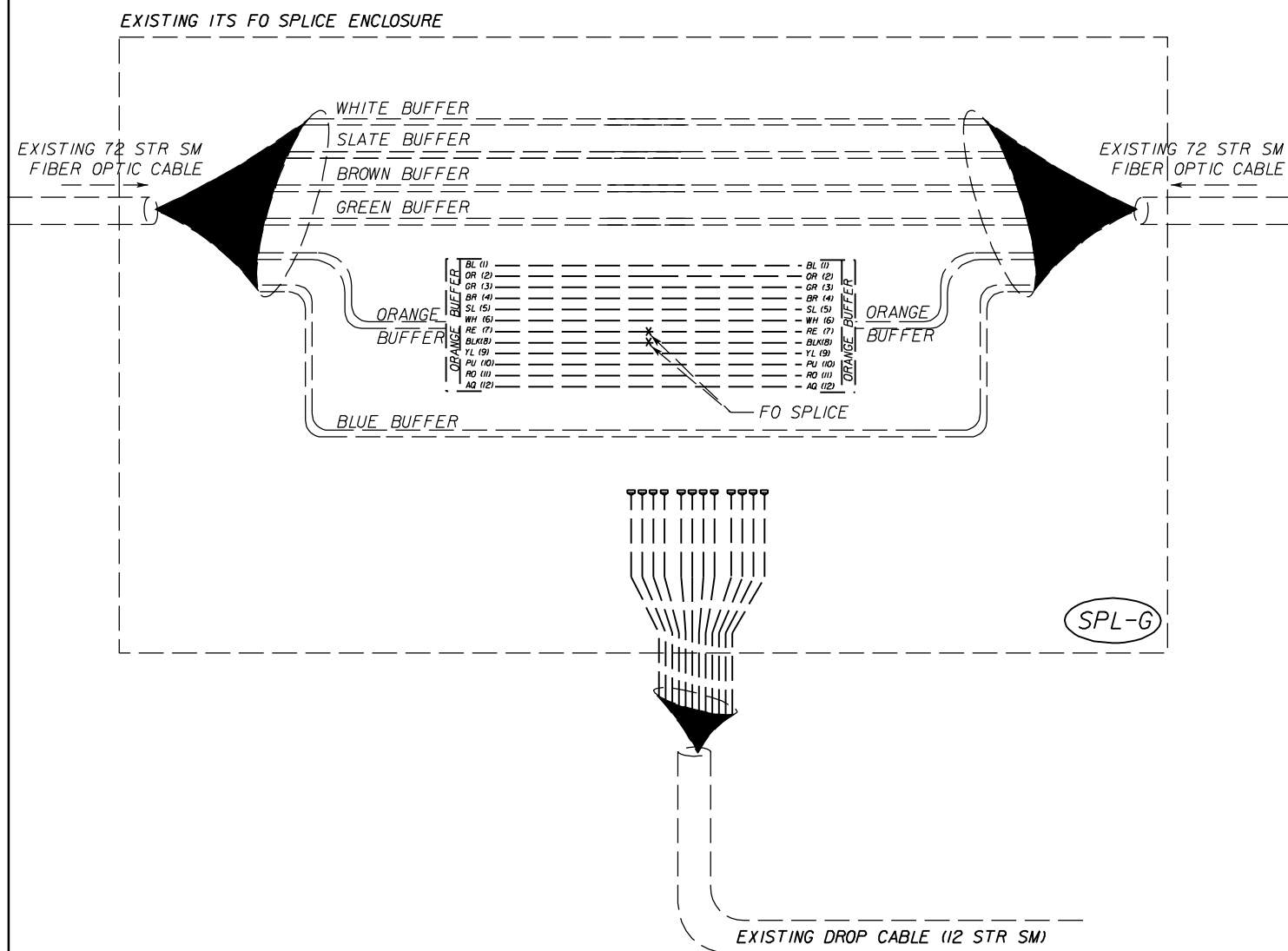
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LEGEND

- (1) BL BLUE
- (2) OR ORANGE
- (3) GR GREEN
- (4) BR BROWN
- (5) SL SLATE
- (6) WH WHITE
- (7) RE RED
- (8) BLK BLACK
- (9) YL YELLOW
- (10) PU PURPLE
- (11) RO ROSE
- (12) AQ AQUA

X FUSION SPLICE
 ◻ UNTERMINATED FIBER

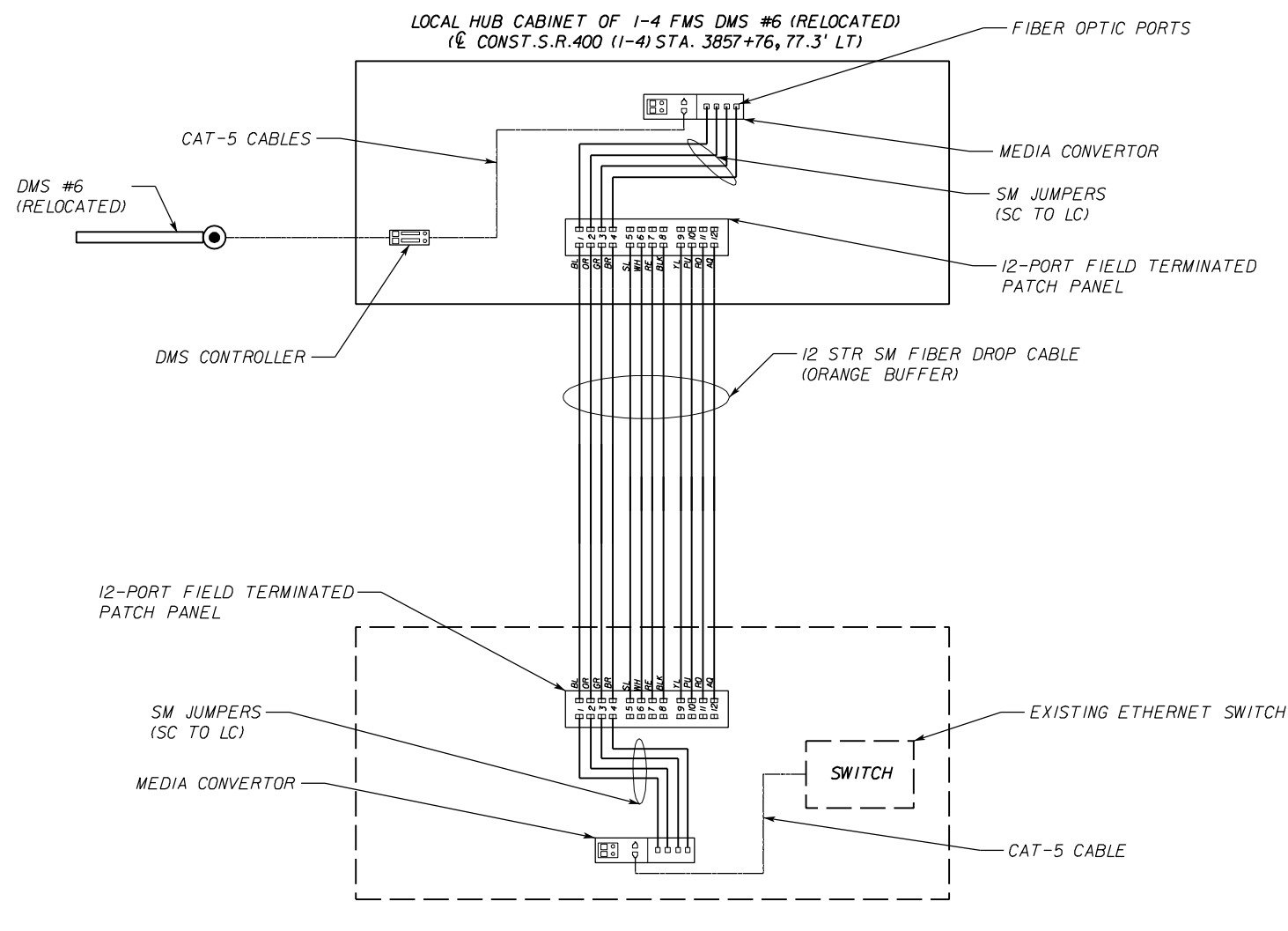
SPL-G



EXISTING SPLICE VAULT AT EXISTING DMS #6
 (☉ CONST.S.R.400 (1-4) STA. 3841+86.7,
 98' RT)

REFERENCE IT PLAN SHEET

IT-18



EXISTING LOCAL HUB CABINET FOR 1-4 FMS
 MVDS-23 AND MVDS-24
 (☉ CONST.S.R.400 (1-4) STA. 3854+45,
 101.7' RT)

REFERENCE IT PLAN SHEET

IT-19

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**FO SPLICING DET (G)
 RELOCATED DMS 6**

SHEET NO.

IT-34

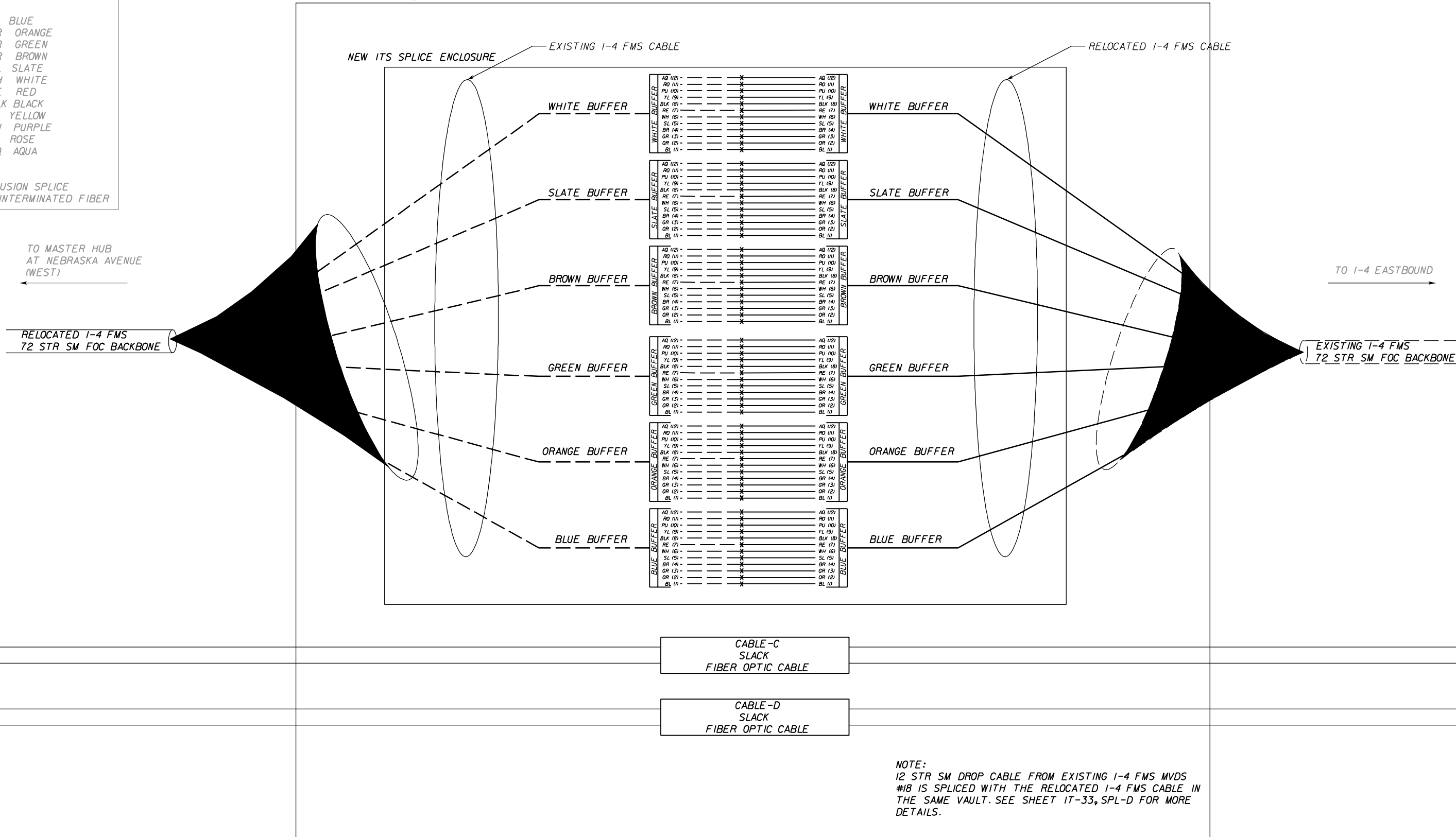
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LEGEND

- (1) BL BLUE
- (2) OR ORANGE
- (3) GR GREEN
- (4) BR BROWN
- (5) SL SLATE
- (6) WH WHITE
- (7) RE RED
- (8) BLK BLACK
- (9) YL YELLOW
- (10) PU PURPLE
- (11) RO ROSE
- (12) AQ AQUA

X FUSION SPlice
 ◻ UNTERMINATED FIBER

NEW ITS FO SPLICE VAULT
 AT I-4 @ STA. 3782+71, III'RT



EXISTING I-4 FMS 72 STR FIBER OPTIC CABLE SPLICING
 TO RELOCATED I-4 FMS 72 STR FIBER OPTIC CABLE

REFERENCE IT PLAN SHEET

IT-7

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

FO SPLICING DET
EXIST TO RELOC (72 STR)

SHEET NO.

IT-35

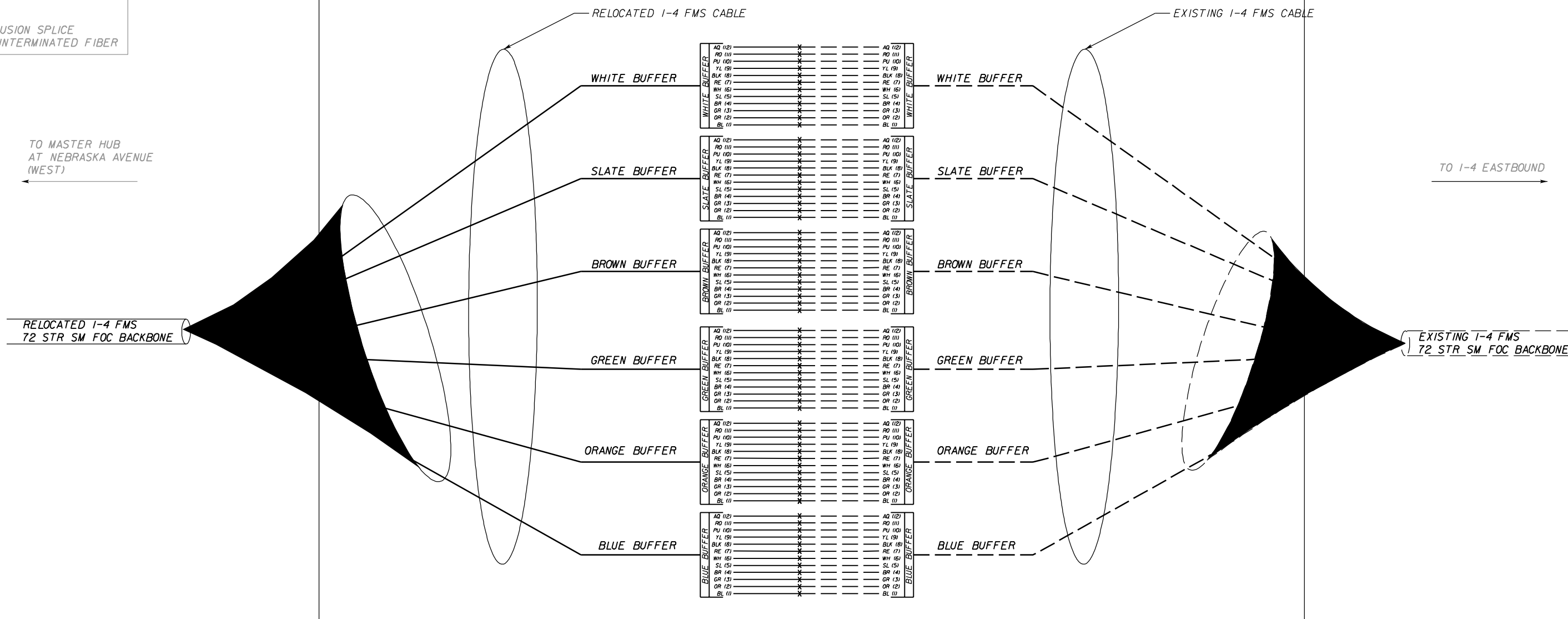
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LEGEND

- (1) BL BLUE
- (2) OR ORANGE
- (3) GR GREEN
- (4) BR BROWN
- (5) SL SLATE
- (6) WH WHITE
- (7) RE RED
- (8) BLK BLACK
- (9) YL YELLOW
- (10) PU PURPLE
- (11) RO ROSE
- (12) AQ AQUA

- X FUSION SPLICE
- ▴ UNTERMINATED FIBER

NEW ITS FO SPLICE VAULT WITH SPLICE ENCLOSURE
AT I-4 @ STA. 3807+90, 126'RT



RELOCATED I-4 FMS 72 STR FIBER OPTIC CABLE SPLICING
TO EXISTING I-4 FMS 72 STR FIBER OPTIC CABLE

REFERENCE IT PLAN SHEET

IT-13

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Fax (407) 551-3010
B.R. Patl, P.E. No. 44097

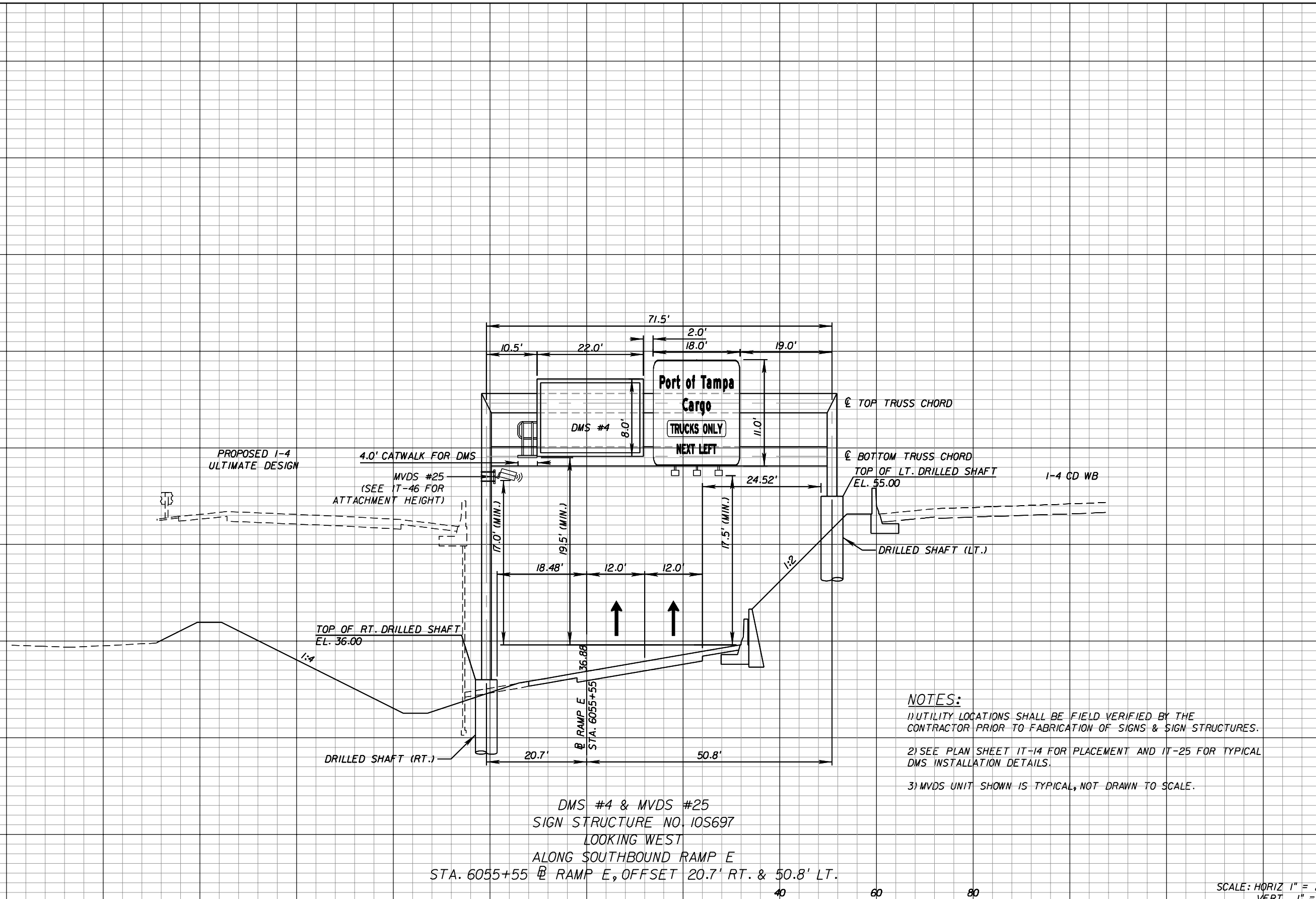
CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

FO SPLICING DET
RELOC TO EXIST (72 STR)

SHEET NO.

IT-36

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



- NOTES:**
- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 - 2) SEE PLAN SHEET IT-14 FOR PLACEMENT AND IT-25 FOR TYPICAL DMS INSTALLATION DETAILS.
 - 3) MVDS UNIT SHOWN IS TYPICAL, NOT DRAWN TO SCALE.

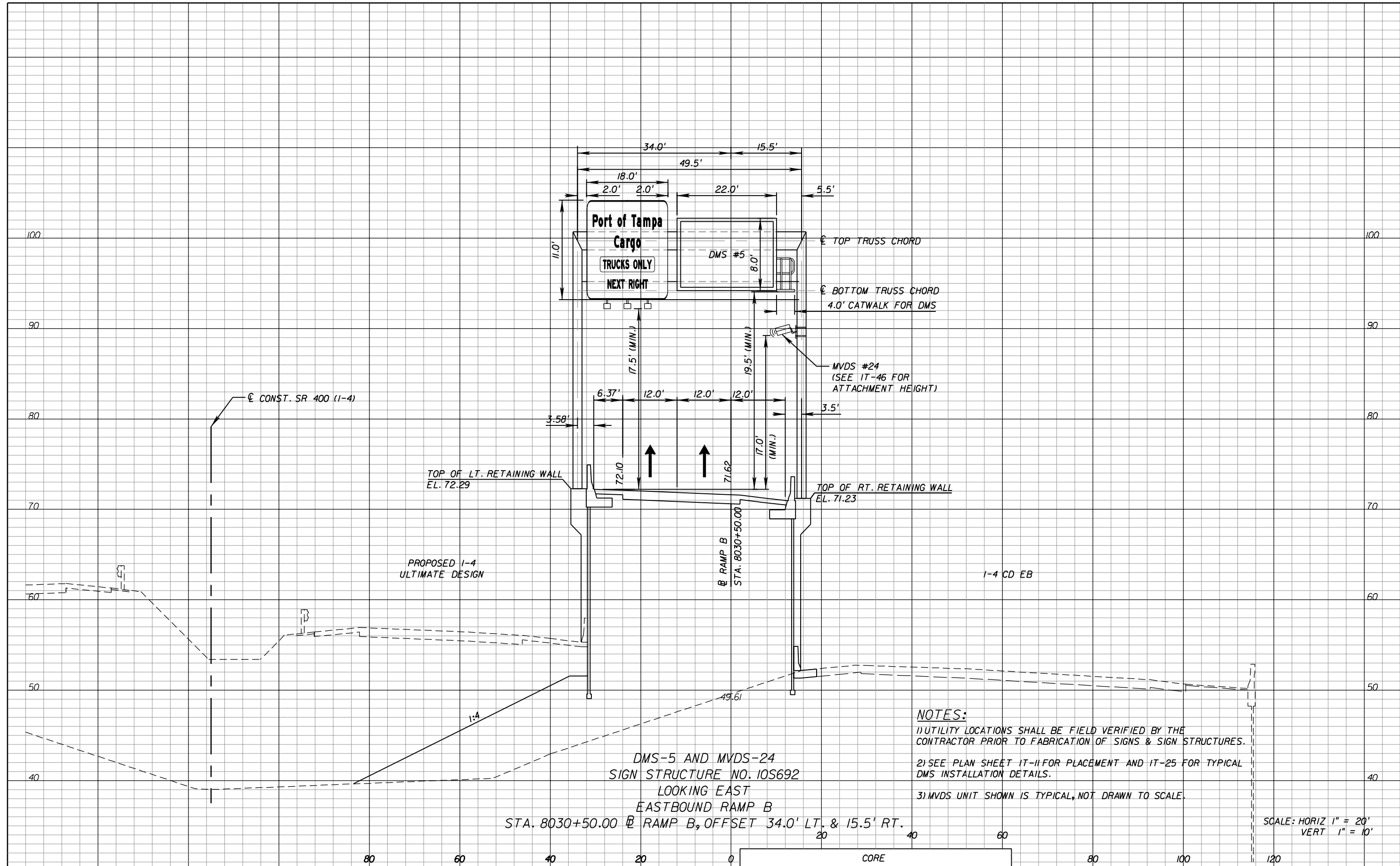
DMS #4 & MVDS #25
 SIGN STRUCTURE NO. 10S697
 LOOKING WEST
 ALONG SOUTHBOUND RAMP E
 STA. 6055+55 @ RAMP E, OFFSET 20.7' RT. & 50.8' LT.

SCALE: HORIZ 1" = 20'
 VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

<p>Cert. of Auth. No. 27128</p>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		<p>CROSSECTIONS DMS-4 AND MVDS-25</p>	SHEET NO. IT-37
	ROAD NO. SR 400	COUNTY HILLSBOROUGH		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



DMS-5 AND MVDS-24
SIGN STRUCTURE NO. 10S692
LOOKING EAST
EASTBOUND RAMP B
STA. 8030+50.00 @ RAMP B, OFFSET 34.0' LT. & 15.5' RT.

- NOTES:**
- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 - 2) SEE PLAN SHEET IT-11 FOR PLACEMENT AND IT-25 FOR TYPICAL DMS INSTALLATION DETAILS.
 - 3) MVDS UNIT SHOWN IS TYPICAL, NOT DRAWN TO SCALE.

SCALE: HORIZ 1" = 20'
VERT 1" = 10'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TELVENT
Cert. of Auth. No. 27128

TELVENT FARRADYNE INC.
225 South Westmonte Dr
Suite # 1110
Altamonte Springs, FL 32714
Ph. (407) 551-3000
Fax. (407) 551-3010
B.R. Patl, P.E. No. 44097

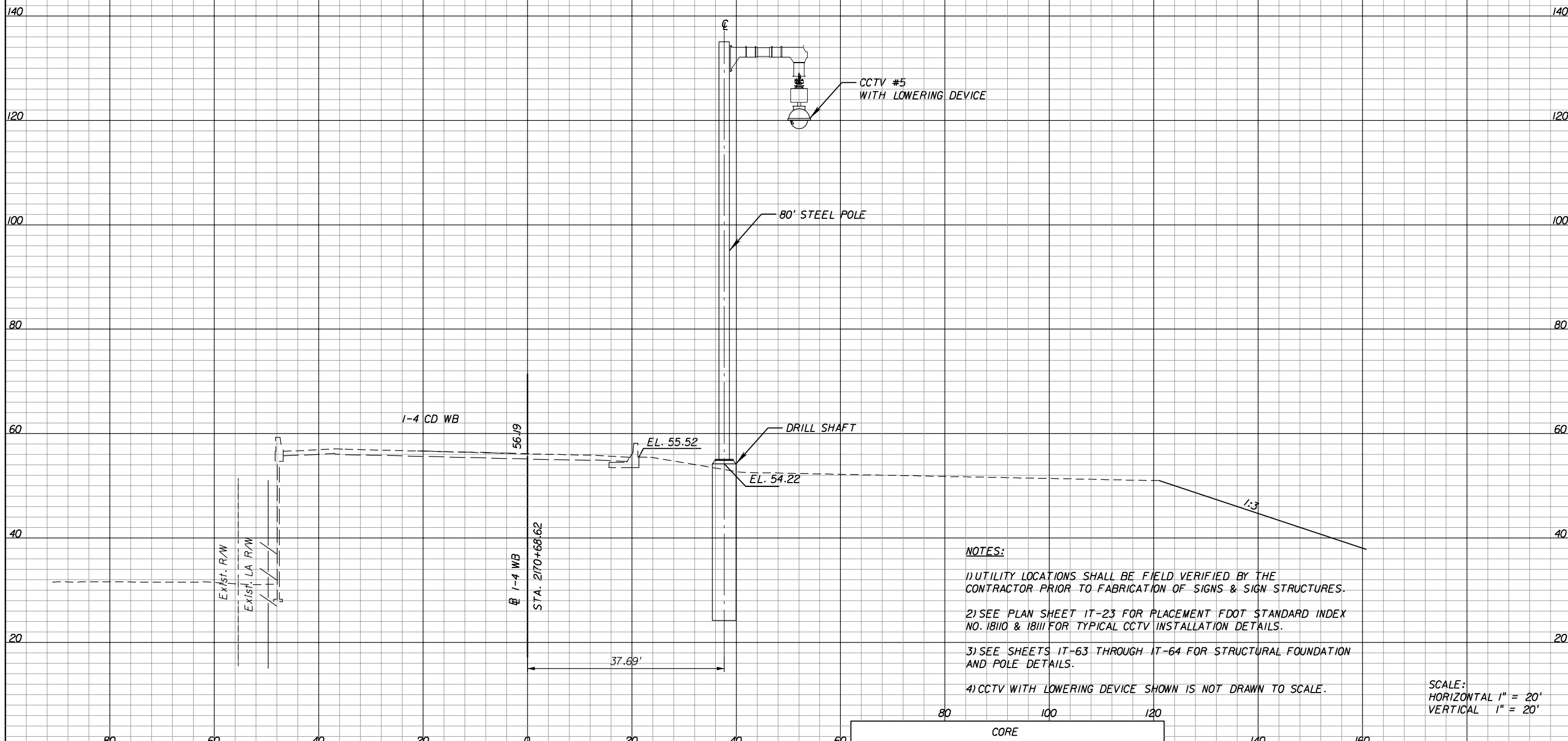
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

CROSSECTIONS
DMS-5 AND MVDS-24

SHEET NO.
IT-38

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

CCTV# 5
 LOOKING EAST
 80' STEEL POLE
 WITH LOWERING DEVICE
 1-4 WB @ STA. 2170+68.62



- NOTES:**
- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 - 2) SEE PLAN SHEET IT-23 FOR PLACEMENT FDOT STANDARD INDEX NO. 18110 & 18111 FOR TYPICAL CCTV INSTALLATION DETAILS.
 - 3) SEE SHEETS IT-63 THROUGH IT-64 FOR STRUCTURAL FOUNDATION AND POLE DETAILS.
 - 4) CCTV WITH LOWERING DEVICE SHOWN IS NOT DRAWN TO SCALE.

SCALE:
 HORIZONTAL 1" = 20'
 VERTICAL 1" = 20'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TELVENT
 Cert. of Auth. No. 27128

TELVENT FARRADYNE INC.
 225 South Westmonte Dr
 Suite # 1110
 Altamonte Springs, FL 32714
 Ph. (407) 551-3000
 Fax. (407) 551-3010
 B.R. Patl, P.E. No. 44097

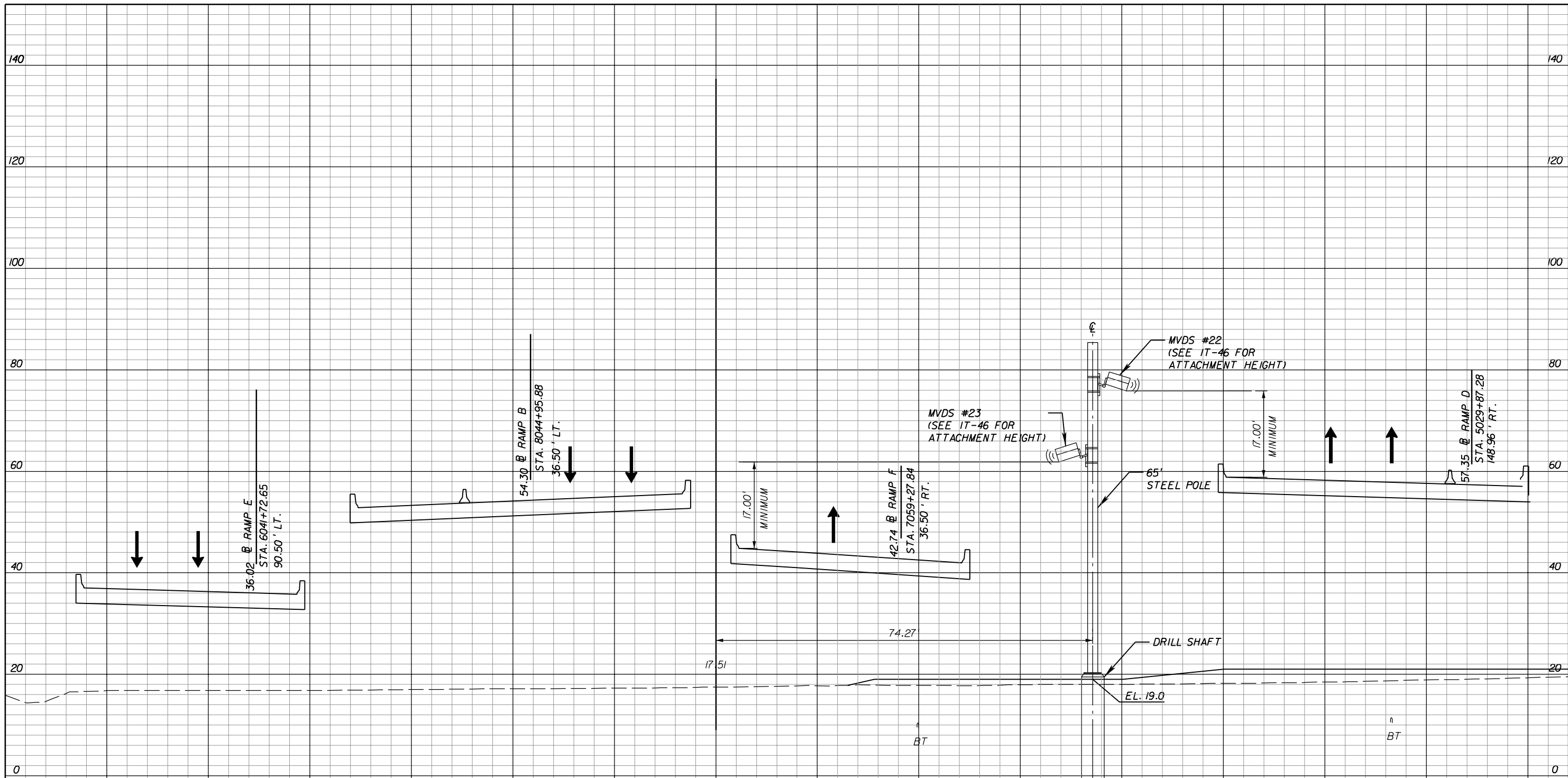
CORE		
STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

CROSSECTIONS

CCTV - 5

SHEET NO.
IT-39

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:

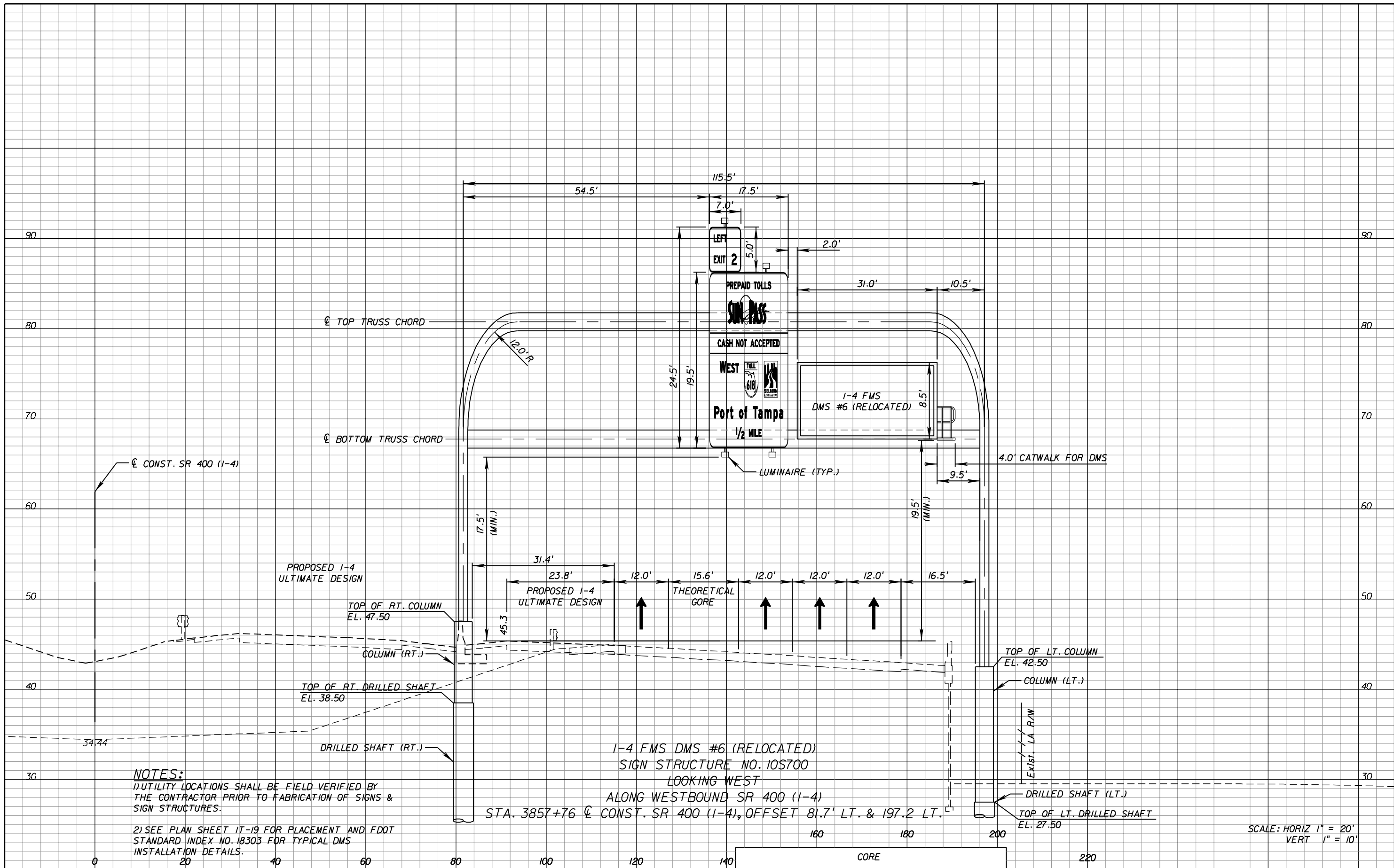
- 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
- 2) SEE PLAN SHEET IT-21 FOR PLACEMENT AND IT-24 FOR TYPICAL MVDS INSTALLATION DETAILS.
- 3) SEE SHEETS IT-63 THROUGH IT-64 FOR STRUCTURAL FOUNDATION AND POLE DETAILS.
- 4) MVDS UNITS NOT DRAWN TO SCALE.

MVDS-22 AND MVDS-23
 LOOKING NORTH
 65' STEEL POLE
 STA. 10034+81.85 @ CONNECTOR, 74.27' RT

SCALE:
 HORIZONTAL 1" = 20'
 VERTICAL 1" = 20'

REVISIONS						<p>TELVENT Cert. of Auth. No. 27128</p>	<p>TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax. (407) 551-3010 B.R. Patl, P.E. No. 44097</p>	<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p>			<p>CROSSECTIONS MVDS-22 AND MVDS-23</p>	<p>SHEET NO. IT-40</p>
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400	HILLSBOROUGH	258415-2-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:
 1) UTILITY LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF SIGNS & SIGN STRUCTURES.
 2) SEE PLAN SHEET IT-19 FOR PLACEMENT AND FDOT STANDARD INDEX NO. 18303 FOR TYPICAL DMS INSTALLATION DETAILS.

1-4 FMS DMS #6 (RELOCATED)
 SIGN STRUCTURE NO. 105700
 LOOKING WEST
 ALONG WESTBOUND SR 400 (I-4)
 STA. 3857+76 @ CONST. SR 400 (I-4), OFFSET 81.7' LT. & 197.2' LT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TELVENT
 Cert. of Auth. No. 27128

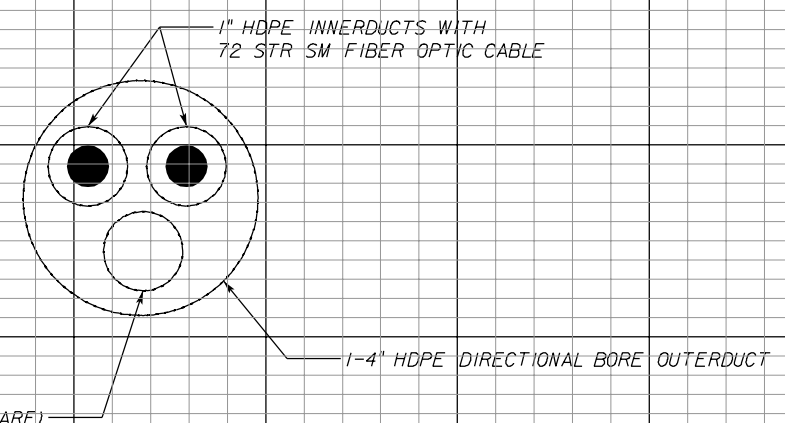
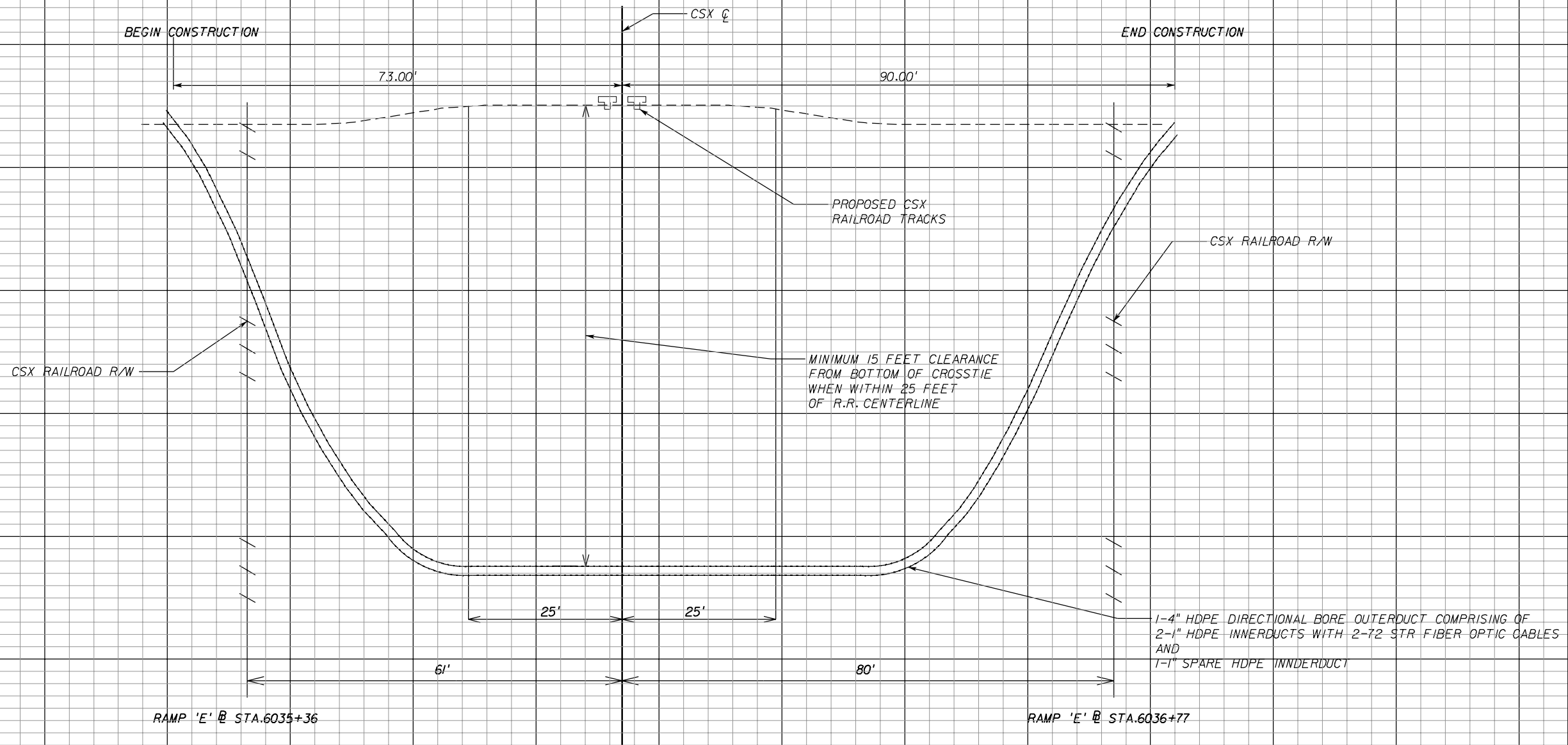
TELVENT FARRADYNE INC.
 225 South Westmonte Dr
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 Altamonte Springs, FL 32714
 Ph. (407) 551-3000
 Fax. (407) 551-3010
 B.R. Patl, P.E. No. 44097

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**CROSSECTIONS
 RELOCATED DMS 6**

SHEET NO.
 IT-41

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



NOTES:
REFER PLAN SHEETS IT-20 AND IT-21 FOR
ADDITIONAL INFORMATION

**DIRECTIONAL BORE CONDUIT
UNDER PROPOSED CSX RAILROAD TRACKS**

SCALE
HORIZONTAL: 1" = 20'
VERTICAL : 1" = 4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TELVENT
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No. 27128

TELVENT FARRADYNE INC.
225 South Westmonte Dr
Suite # 1110
Altamonte Springs, FL 32714
Ph. (407) 551-3000
Fax. (407) 551-3010
B.R. Patl, P.E. No. 44097

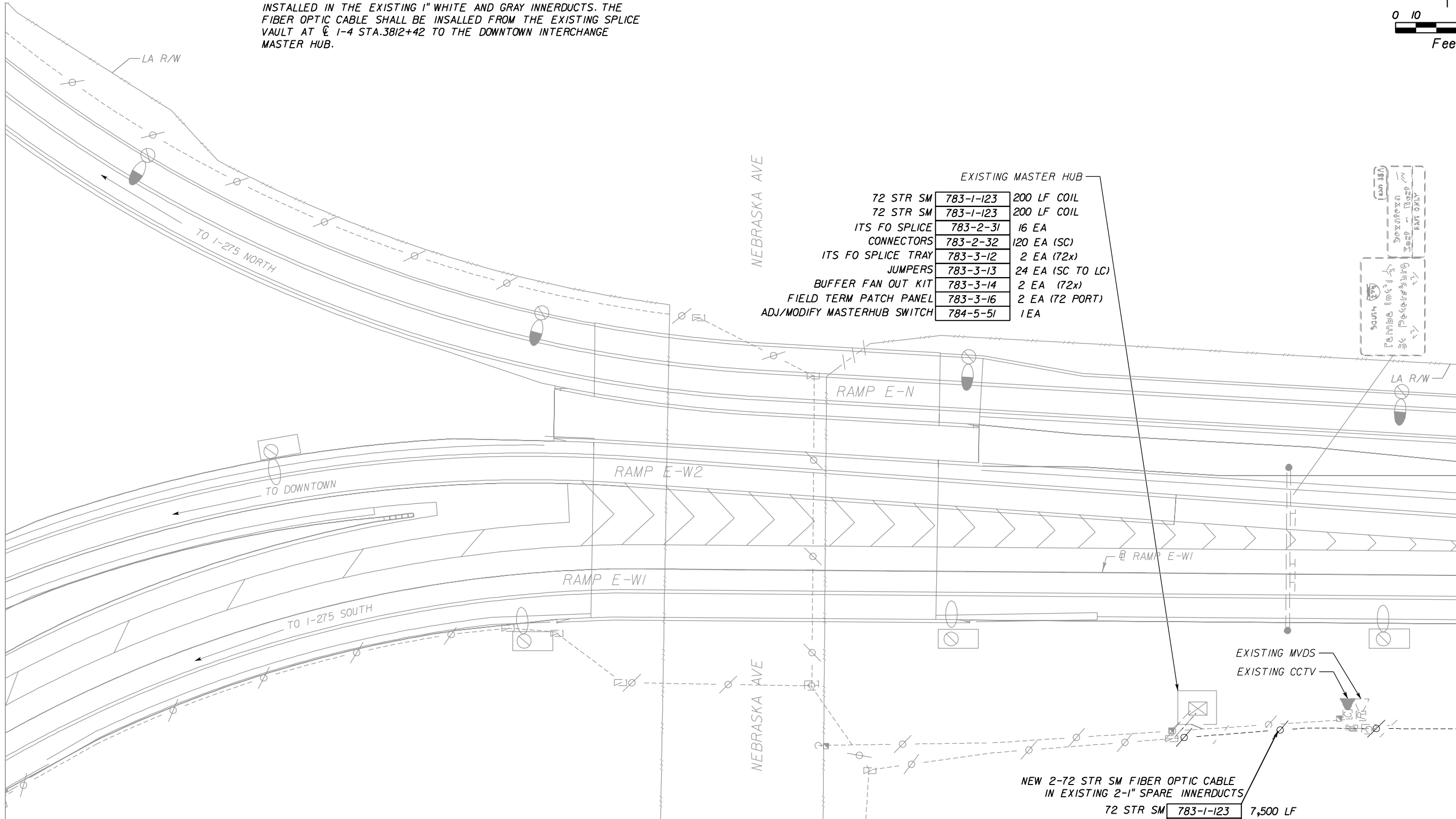
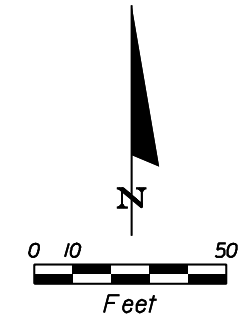
CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

CROSSECTIONS		SHEET NO.
CSX RR DIR. BORE TYPICAL		IT-42

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

NOTES:
 1. THE EXISTING MASTER HUB ETHERNET SWITCH SHALL BE USED FOR INTEGRATION OF NEW DEVICES DESIGNED FOR THE CROSSTOWN CONNECTOR. CONTRACTOR SHALL REDUCE DOWNTIME TO THE MASTER SWITCH TO A MINIMUM DURING INTEGRATION AND SHALL COORDINATE ALL WORK WITH THE FDOT DISTRICT 7 ENGINEER.

2. THE TWO 72 STR SM FIBER OPTIC CABLES (C & D) SHALL BE INSTALLED IN THE EXISTING 1" WHITE AND GRAY INNERDUCTS. THE FIBER OPTIC CABLE SHALL BE INSTALLED FROM THE EXISTING SPLICE VAULT AT C 1-4 STA.3812+42 TO THE DOWNTOWN INTERCHANGE MASTER HUB.



EXISTING MASTER HUB

72 STR SM	783-1-123	200 LF COIL
72 STR SM	783-1-123	200 LF COIL
ITS FO SPLICE CONNECTORS	783-2-31	16 EA
ITS FO SPLICE TRAY	783-2-32	120 EA (SC)
JUMPERS	783-3-12	2 EA (72x)
BUFFER FAN OUT KIT	783-3-13	24 EA (SC TO LC)
FIELD TERM PATCH PANEL	783-3-14	2 EA (72x)
ADJ/MODIFY MASTERHUB SWITCH	783-3-16	2 EA (72 PORT)
	784-5-51	1 EA

72 STR SM	783-1-123	7,500 LF
72 STR SM	783-1-123	7,500 LF

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TELVENT
 Cert. of Auth. No. 27128

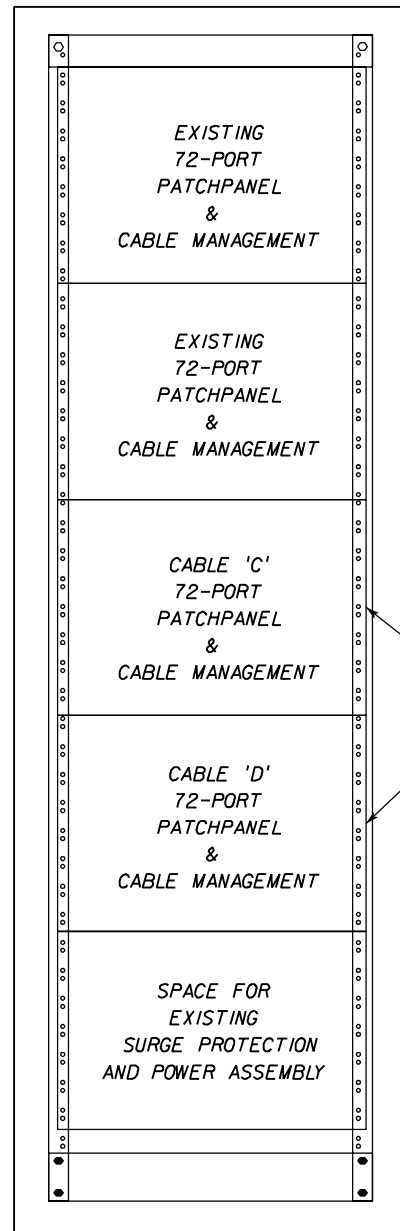
TELVENT FARRADYNE INC.
 225 South Westmonte Dr
 Suite # 1110
 Altamonte Springs, FL 32714
 Ph. (407) 551-3000
 Fax: (407) 551-3010
 B.R. Patl, P.E. No. 44097

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**DOWNTOWN MASTER HUB
 DETAILS**

SHEET NO.
 IT-43

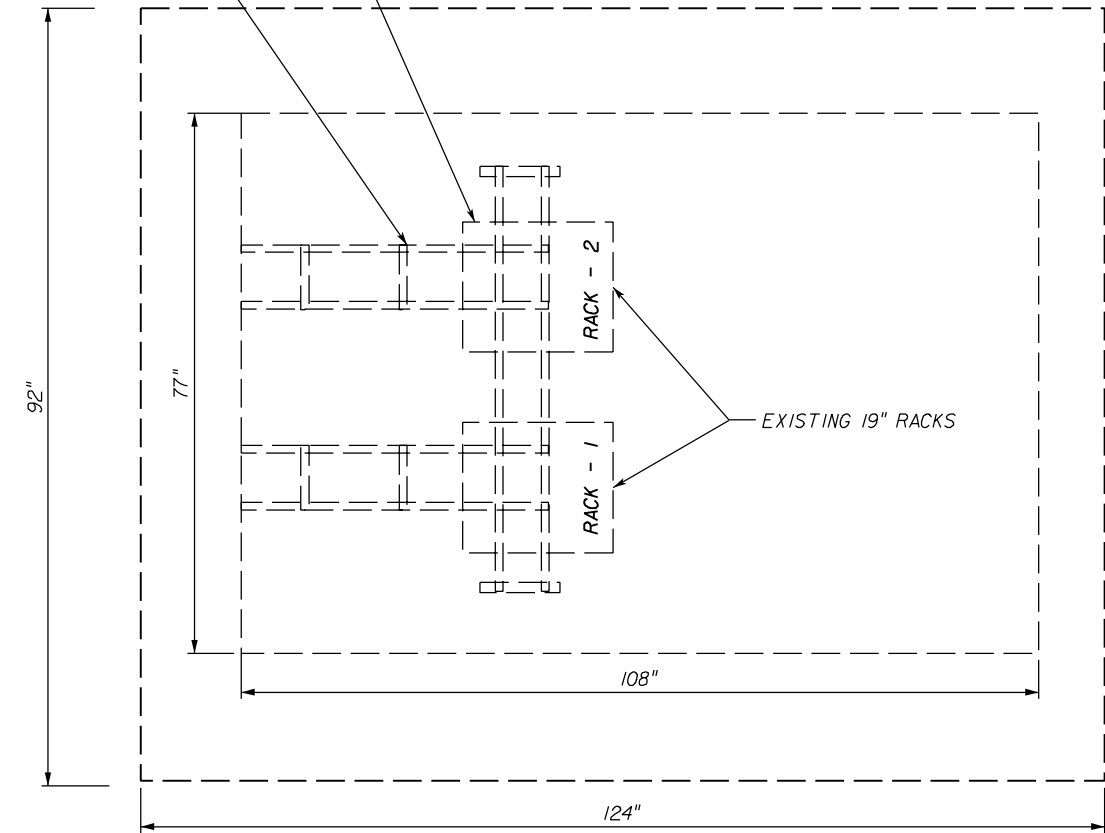
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



MODIFICATION OF EXISTING RACK-2

INSTALL NEW CROSSTOWN CONNECTOR
72-PORT PATCHPANELS ON THIS RACK

EXISTING CABLE LADDERS



EXISTING HUB FLOOR LAYOUT

DOWNTOWN MASTER HUB SHELTER (AT NEBRASKA AVENUE)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TELVENT
Cert. of Auth.
No. 27128

TELVENT FARRADYNE INC.
225 South Westmonte Dr
Suite # 1110
Altamonte Springs, FL 32714
Ph. (407) 551-3000
Fax (407) 551-3010
B.R. Patl, P.E. No. 44097

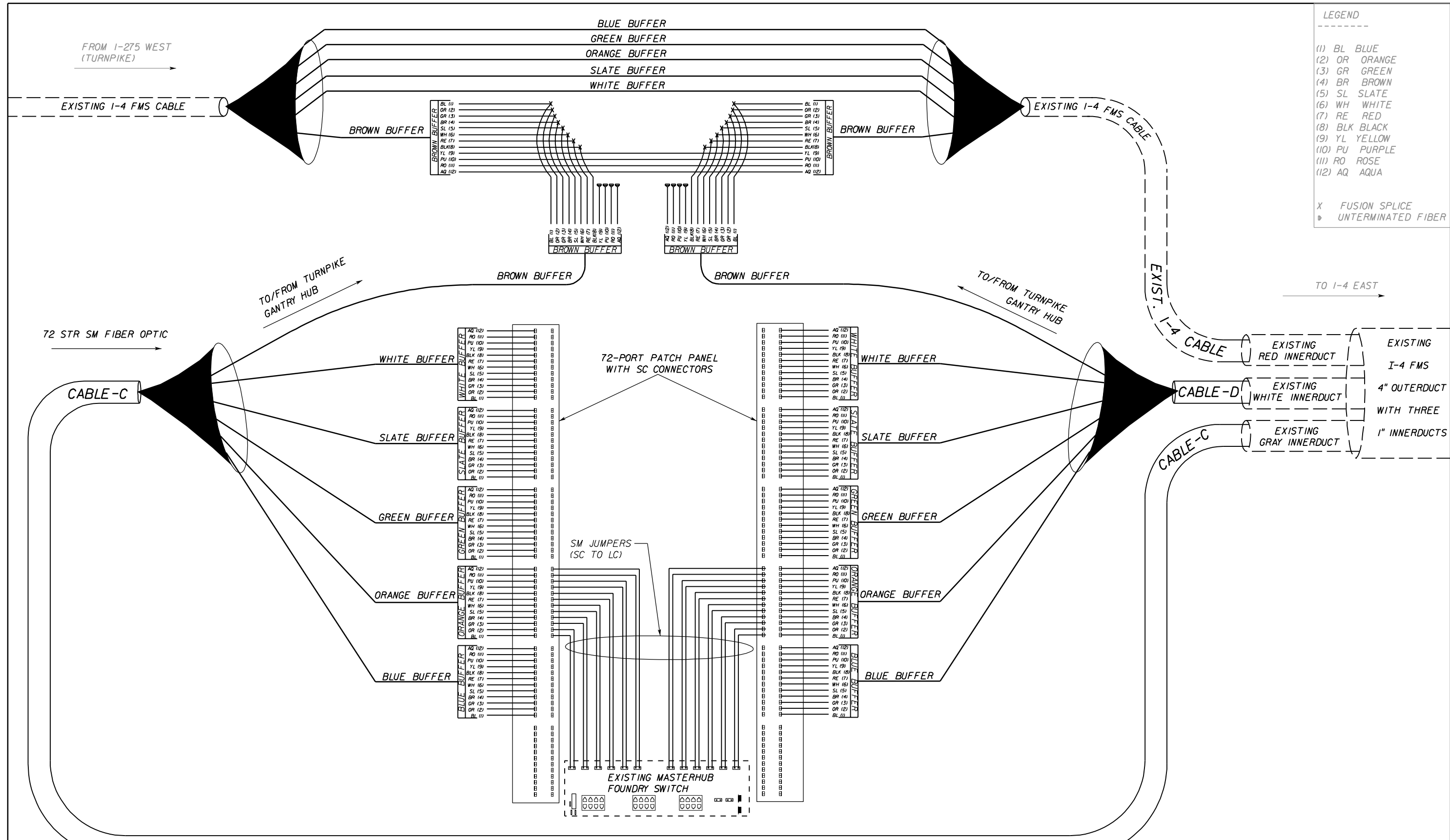
CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**DOWNTOWN MASTER HUB
SHELTER DETAILS**

SHEET
NO.
IT-44

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

- LEGEND**
- (1) BL BLUE
 - (2) OR ORANGE
 - (3) GR GREEN
 - (4) BR BROWN
 - (5) SL SLATE
 - (6) WH WHITE
 - (7) RE RED
 - (8) BLK BLACK
 - (9) YL YELLOW
 - (10) PU PURPLE
 - (11) RO ROSE
 - (12) AQ AQUA
- X FUSION SPLICE
 ◻ UNTERMINATED FIBER



REFERENCE IT PLAN SHEET
 IT-43

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

TELVENT
 Cert. of Auth. No. 27128

TELVENT FARRADYNE INC.
 225 South Westmonte Dr
 Suite # 1110
 Altamonte Springs, FL 32714
 Ph. (407) 551-3000
 Fax (407) 551-3010
 B.R. Patl, P.E. No. 44097

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01


**DOWNTOWN MASTER HUB
 FIBER SPLICING DETAILS**

SHEET NO.
 IT-45

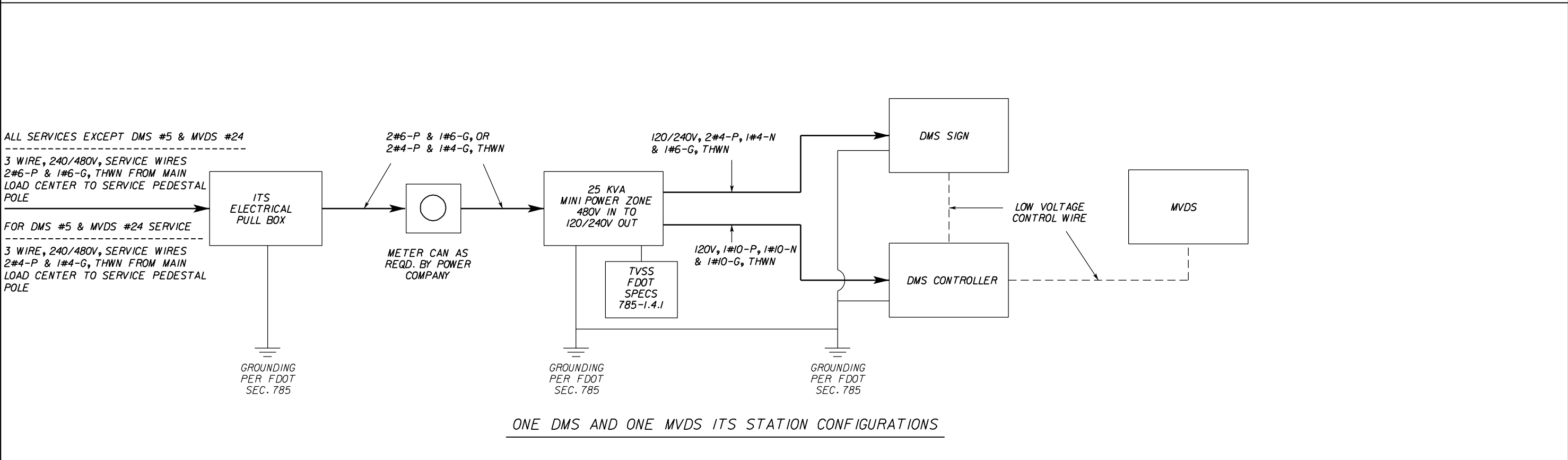
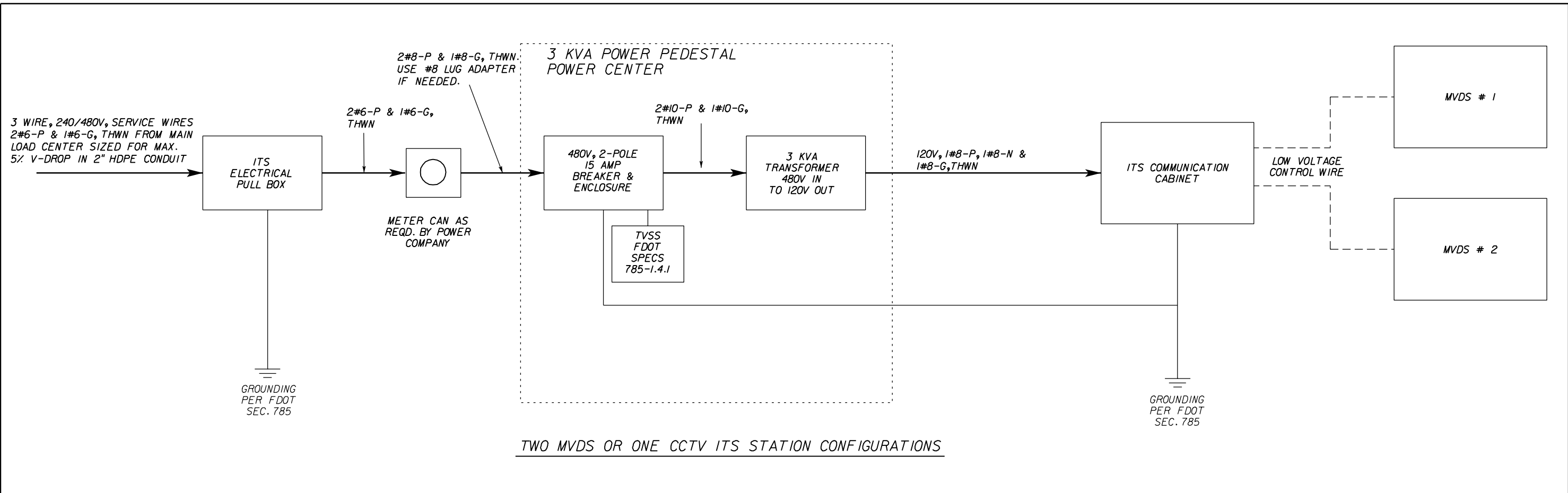
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

POLE DATA SHEET

PLAN SHEET NO.	STATION	MVDS#	CCTV/DMS#	OFFSET FROM POLE TO FIRST TRAVEL LANE (FEET)	MVDS MOUNTING HEIGHT OVER DETECTED RAMP (FEET)	RAMP ELEVATION	GROUND ELEVATION	MVDS RECOMMENDED/ MOUNTING HEIGHT (FEET) FROM POLE FOUNDATION	MOUNTING STRUCTURE TYPE	COMMENTS
IT 11	STA 8030+50	24	DMS #5	15.05	19	71.23	71.62	39	DMS POLE	Ramp B
IT 14	STA 6055+55	25	DMS #4	18.15	19.5	36.88	36	20.38	DMS POLE	Ramp E
IT 19	STA 3857+76		RELO. DMS #6						DMS STRUCTURE	No MVDS mounted
IT 21	STA 10034+81.85	22,23		32, 39	22, 22	57.35/42.74	19	60.35/45.74	ITS POLE (65')	MVDS drilled shaft Elv. Is 19'
IT 23	STA 2170+68.62		CCTV #5			99.38	54.22		ITS POLE (80')	Ramp C Highest Elv. 99.38'; CCTV pole elev. 54.22'+80'=134.22'

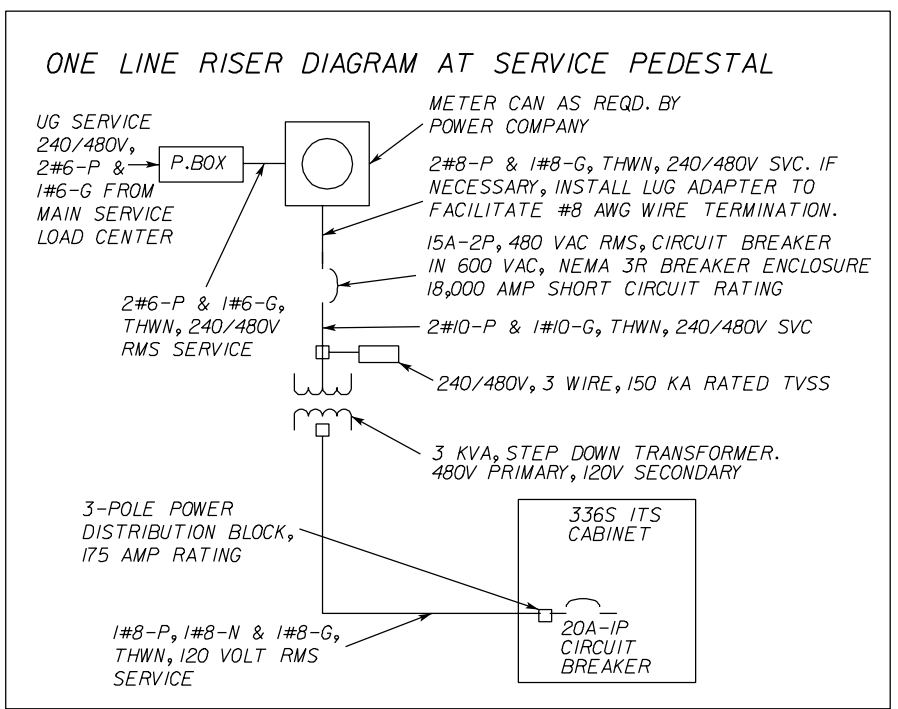
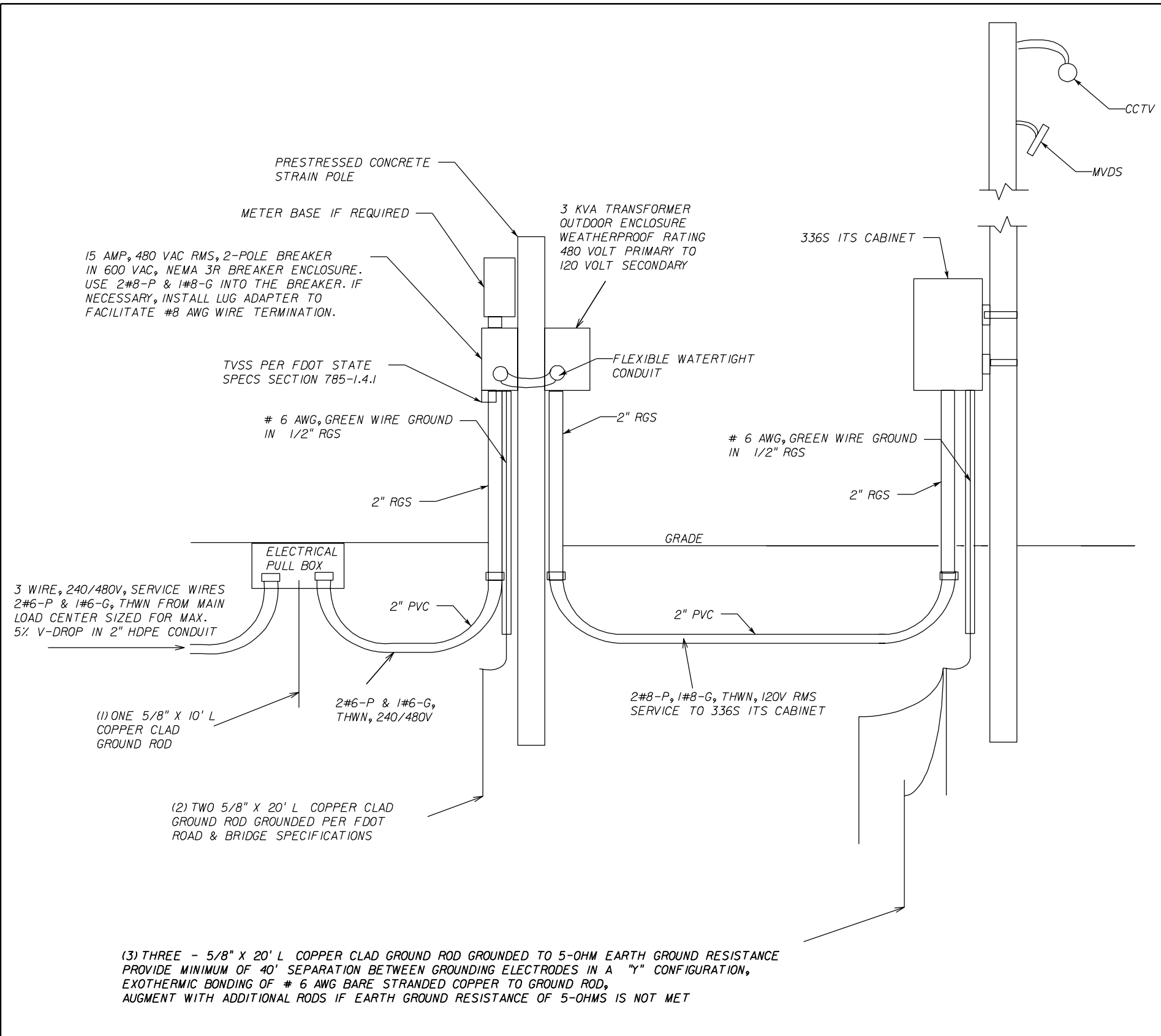
<i>REVISIONS</i>						 TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax. (407) 551-3010 B.R. Patl., P.E. No. 44097	<i>CORE</i>			POLE DATA SHEET	SHEET NO.
<i>DATE</i>	<i>BY</i>	<i>DESCRIPTION</i>	<i>DATE</i>	<i>BY</i>	<i>DESCRIPTION</i>		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				IT-46
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	HILLSBOROUGH	258415-2-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



REVISIONS						TELVENT Cert. of Auth. No. 27128 TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax. (407) 551-3010 B.R. Patl, P.E. No. 44097	CORE			ELECTRICAL DETAILS BLOCK DIAGRAM	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				IT-47
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	HILLSBOROUGH	258415-2-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



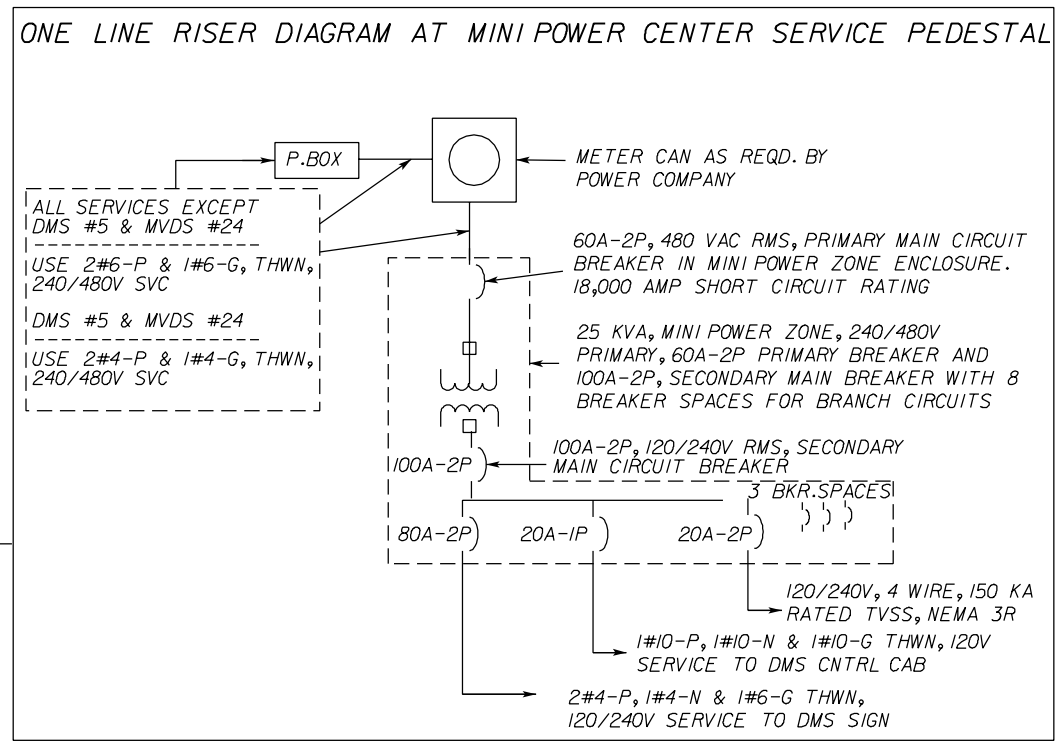
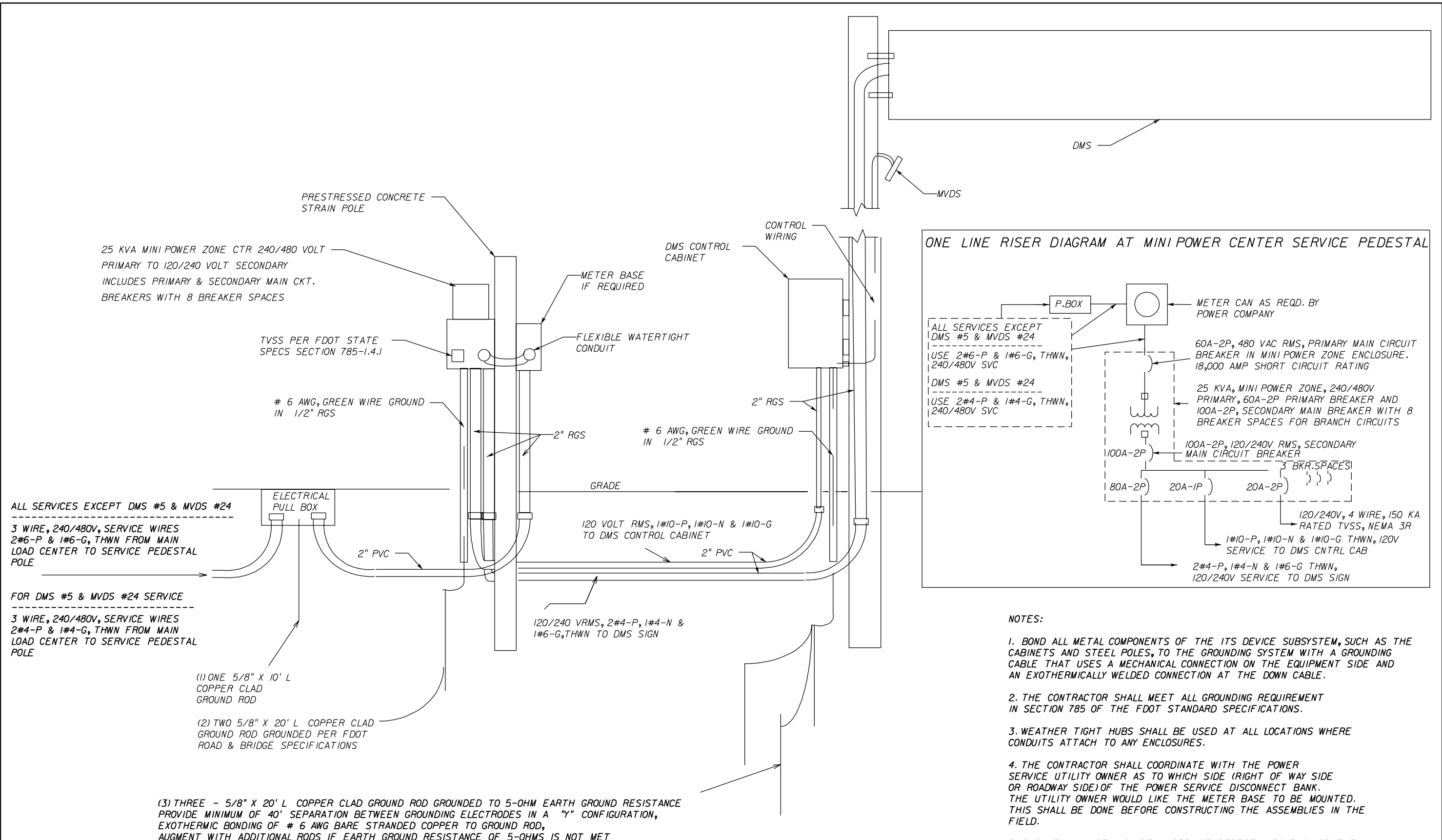
NOTES:

1. BOND ALL METAL COMPONENTS OF THE ITS DEVICE SUBSYSTEM, SUCH AS THE CABINETS AND STEEL POLES, TO THE GROUNDING SYSTEM WITH A GROUNDING CABLE THAT USES A MECHANICAL CONNECTION ON THE EQUIPMENT SIDE AND AN EXOTHERMICALLY WELDED CONNECTION AT THE DOWN CABLE.
2. THE CONTRACTOR SHALL MEET ALL GROUNDING REQUIREMENT IN SECTION 785 OF THE FDOT STANDARD SPECIFICATIONS.
3. WEATHER TIGHT HUBS SHALL BE USED AT ALL LOCATIONS WHERE CONDUITS ATTACH TO ANY ENCLOSURES.
4. THE CONTRACTOR SHALL COORDINATE WITH THE POWER SERVICE UTILITY OWNER AS TO WHICH SIDE (RIGHT OF WAY SIDE OR ROADWAY SIDE) OF THE POWER SERVICE DISCONNECT BANK. THE UTILITY OWNER WOULD LIKE THE METER BASE TO BE MOUNTED. THIS SHALL BE DONE BEFORE CONSTRUCTING THE ASSEMBLIES IN THE FIELD.

CCTV / MVDS POLE POWER SERVICE DETAIL

REVISIONS						 Cert. of Auth. No. 27128	CORE			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 400 HILLSBOROUGH 258415-2-52-01	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ELECTRICAL DETAILS CCTV / MVDS SERVICE				IT-48
							TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax: (407) 551-3010 B.R. Patl, P.E. No. 44097				

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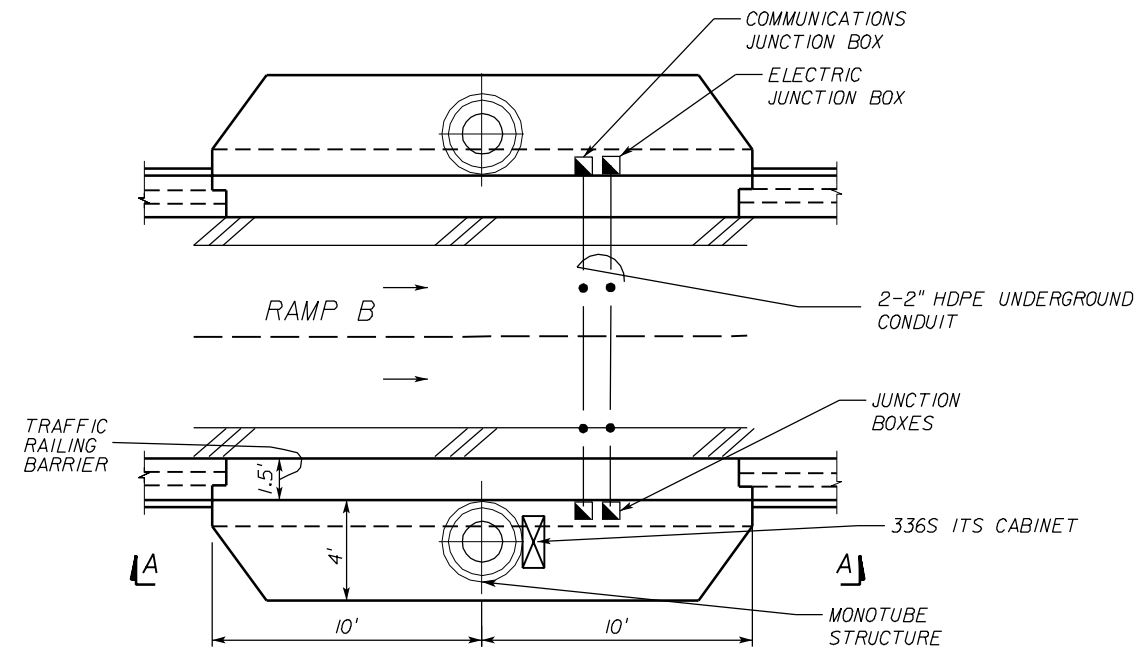
- NOTES:**
1. BOND ALL METAL COMPONENTS OF THE ITS DEVICE SUBSYSTEM, SUCH AS THE CABINETS AND STEEL POLES, TO THE GROUNDING SYSTEM WITH A GROUNDING CABLE THAT USES A MECHANICAL CONNECTION ON THE EQUIPMENT SIDE AND AN EXOTHERMICALLY WELDED CONNECTION AT THE DOWN CABLE.
 2. THE CONTRACTOR SHALL MEET ALL GROUNDING REQUIREMENT IN SECTION 785 OF THE FDOT STANDARD SPECIFICATIONS.
 3. WEATHER TIGHT HUBS SHALL BE USED AT ALL LOCATIONS WHERE CONDUITS ATTACH TO ANY ENCLOSURES.
 4. THE CONTRACTOR SHALL COORDINATE WITH THE POWER SERVICE UTILITY OWNER AS TO WHICH SIDE (RIGHT OF WAY SIDE OR ROADWAY SIDE) OF THE POWER SERVICE DISCONNECT BANK. THE UTILITY OWNER WOULD LIKE THE METER BASE TO BE MOUNTED. THIS SHALL BE DONE BEFORE CONSTRUCTING THE ASSEMBLIES IN THE FIELD.
 5. DMS #5 WILL NOT INCLUDE A SERVICE PEDESTAL POLE SINCE THE MINI POWER CENTER WILL BE MOUNTED ON THE OUTSIDE BARRIER WALL OF RAMP B. THIS DRAWING ONLY APPLIES TO DMS #4 AND RELOCATED DMS #6

DMS / MVDS POWER SERVICE DETAIL

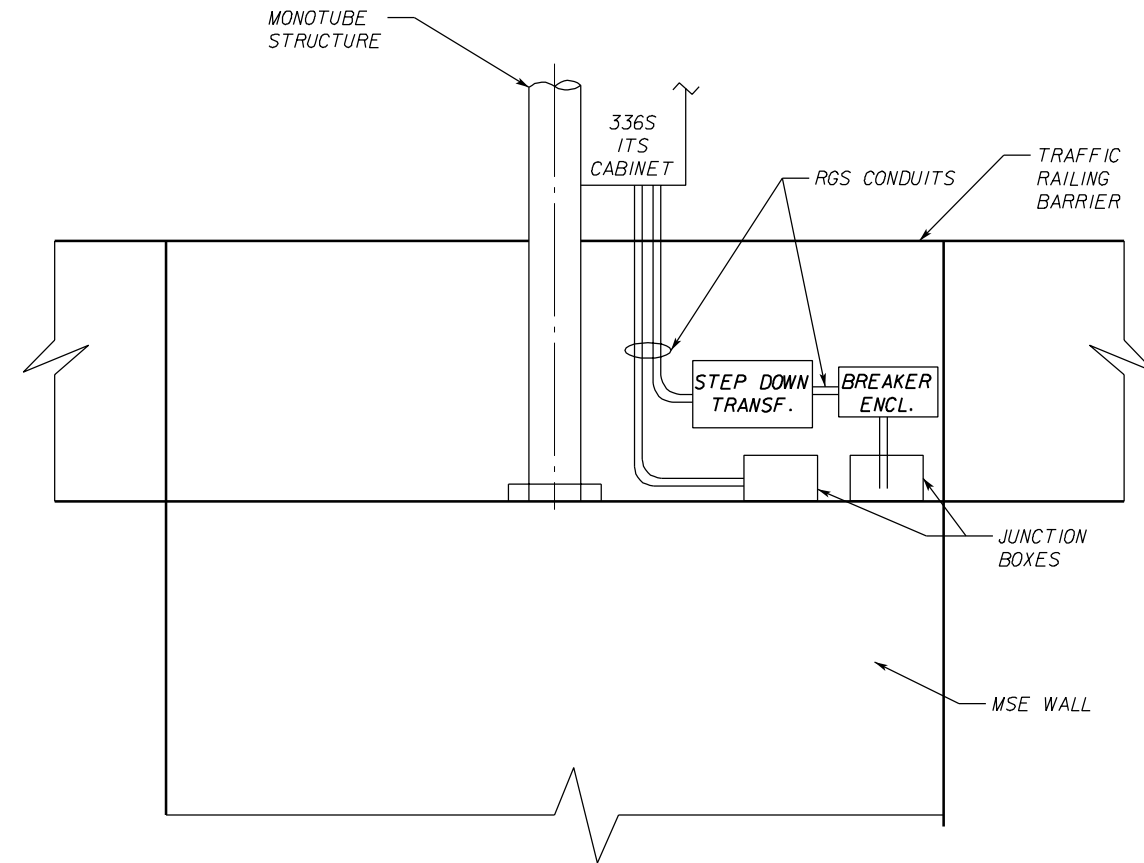
REVISIONS						<p>TELVENT</p> <p>Cert. of Auth. No. 27128</p> <p>TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax (407) 551-3010 B.R. Patl, P.E. No. 44097</p>	CORE			<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <p>ELECTRICAL DETAILS DMS / MVDS SERVICE</p>	<p>SHEET NO. 17-49</p>
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 400	HILLSBOROUGH	258415-2-52-01		

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Direction of Stationing 




PLAN VIEW
(NOT TO SCALE)



SECTION AA
(NOT TO SCALE)

NOTES:

1. 2-2" HDPE CONDUIT TO BE INSTALLED DURING CONSTRUCTION OF RAMP B.
2. JUNCTION BOXES, AS SHOWN, SHALL BE WATERTIGHT AND INSULATED.
3. SLACK FIBER OPTIC CABLE AND ELECTRICAL SERVICE WIRES ARE TO BE STORED IN THE COMMUNICATIONS AND ELECTRICAL JUNCTION BOXES RESPECTIVELY AS SHOWN IN THE PLANS.

REVISIONS						 TELVENT Cert. of Auth. No. 2712B	TELVENT FARRADYNE INC. 225 South Westmonte Dr Suite # 1110 Altamonte Springs, FL 32714 Ph. (407) 551-3000 Fax. (407) 551-3010 B.R. Patl, P.E. No. 44097	CORE			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ELECTRICAL DETAILS RAMP B SERVICE	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		IT-50
								SR 400	HILLSBOROUGH	258415-2-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

GENERAL NOTES

1. General Specifications: Florida Department of Transportation Standard Specifications for Road and Bridge Construction (2007 Edition) and Supplements thereto.
2. Design Specifications: American Association of State Highway and Transportation Officials (AASHTO) Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (2001) with 2002, 2003 and 2006 Interims
3. Design is in accordance with the requirements of Section 29.1 of the FDDT Plans Preparation Manual.
4. The Design Wind Speed is 130 MPH with a 3-Second Gust Factor.
5. Sign Structure Materials shall be as follows:
 Uprights & Arms = API-5L-X52 (52 ksi yield)
 Handhole Frame = ASTM A709, Grade 36
 Handhole Cover = ASTM A1011, Grade 50, 55, 60, or 65 ksi
 Steel Plates = ASTM A709, Grade 36
 W-Beams = ASTM A709, Grade 50
 Weld Metal = E70XX
 Bolts (except Anchor Bolts) = ASTM A325, Type I
 Anchor Bolts = ASTM F1554, Grade 55
 Nuts for Anchor Bolts = ASTM A563, Grade A Heavy Hex Double Nuts
 Washers for Anchor Bolts = ASTM F436, Type I
 Stainless Steel Screws = AISI Type 316
 Aluminum Nut Cover = ASTM B26 (356-T6)
 Bolted Splice Connection: Slip Critical Connection with Class C contact surface
6. Reinforcing Steel shall be ASTM A615, Grade 60
7. Drilled Shaft Concrete shall be Class IV (Drilled Shaft) with a minimum 28-day compressive strength of 4 ksi for all environmental classifications. Pier Concrete shall be Class IV with a minimum 28-day compressive strength of 5.5 ksi for all environmental classifications.
8. Grout shall have a minimum 28-day compressive strength of 5 ksi and shall meet the requirements of Section 934 of the Specifications, using procedures outlined in Section 649.6
9. Weld details and welding operations shall be in accordance with the current edition of the ANSI/AWS D1.1 Structural Welding Code (steel). All complete joint penetration welds shall be radiographically or ultrasonically inspected for 100% of their length. The non-destructive testing shall be performed in accordance with AWS D1.1 Section 9 (Dynamically Loaded Structures). All welds are considered tension welds. All welding procedures shall be submitted for approval. The testing shall be performed by the FDDT's commercial inspection agency.
10. All Steel items shall be galvanized as follows:
 All Nuts, Bolts and Washers = ASTM F2329.
 All other Steel items (including Uprights & Arms) = ASTM A123.
 Water quenching or treatment with chromate conversion coatings are not permitted for galvanized items that are to be painted.
11. Alternate Designs for these Structures are not allowed.
12. Except for Anchor Bolts, all bolt hole diameters shall be equal to the bolt diameter plus 1/16", prior to galvanizing. Hole diameters for Anchor Bolts shall not exceed the bolt diameter plus 1/2".
13. Sign Panels attached to the structure shall be located as shown in the Signing Plans. Wire access holes shall not exceed 3/4" in diameter. Sign panels shall be aluminium.
14. Do not erect Pole until foundation concrete has cured for a minimum of 7 days and concrete has achieved 75% of its minimum 28-day strength.
15. The Structures must be assembled after galvanizing and prior to painting and shipment to the site to verify correct orientation and fit up. It may be disassembled for shipping.
16. Shop Drawings for this Structure are required and fabrication shall not begin until these Shop Drawings are approved. Shop Drawings shall include the Contractor's field verification of all upright heights and foundation elevations to ensure minimum vertical clearances. Shop Drawings shall also provide the anchor bolt orientation with respect to the centerline of the arm and the direction of traffic. Additionally, contractor shall submit welding procedures. Upright and Arm Shop splices are not allowed.
17. The Bolted Splice connections shall be completed (A325 Bolts tensioned per the Specifications) in the no-load condition.
18. Pay Items 781-11-222 and 781-11-223: ITS Dynamic Message Sign shall include the cost of painting the entire sign assembly. Structural supports, hardware, and exposed electrical conduits shall be painted FED-STD-595B-17778 (a.k.a. Color RAL-1013 (Smooth Glossy) as manufactured by Tiger Drylac USA, Inc. (Powder Coating), Cardinal Industrial Finishes (TGIC Polyester Powder Coating), or approved equivalent. The backs of sign panels including wind beams and hangers shall be painted FED-STD-595B-20372 (a.k.a. Color RAL-1019). Concrete Pedestal shall be painted FED-STD-595B-27778 (a.k.a. Color RAL-1013) (Satin Finish).
19. All attachments to the structure (e.g.: electrical conduit, etc.) shall be painted to match the final color of the Structure. The mating surfaces of the Bolted Splice shall not be painted. The Sign Structures shall be painted (after galvanizing) with either a powder coat paint system as described in the 2007 edition of Standard Specification 649-4.4 or an epoxy primer and an aliphatic polyurethane topcoat in accordance with FDDT DCE Memorandum No. 06-08.
20. All members of the Sign Structure are considered to be tension members and steel greater than 1/2" thickness shall meet the AASHTO Specifications for notch toughness requirements.
21. All dimensions are in feet or inches, unless noted otherwise.
22. Payment for any incidental items incurred in furnishing and installing the Sign Structures shall be included in the pay item for providing the Complete Sign Structure.
23. Prior to erection, the as-built location of the anchor bolts shall be surveyed and this information reported to the engineer.
24. The Contractor may provide higher strength pipes than what is specified in the design table of the contract plans at no additional cost to the owner if required to meet domestic pipe size availability.
25. Mounting brackets for MVDS devices shall be supplied by MVDS Manufacturer as part of the MVDS assembly. Shop Drawings shall be submitted to the Engineer for approval.
26. MVDS shall be banded to pole using stainless steel straps. Field Drilling or Welding is not permitted.
27. Structural attachment of DMS sign to structure is responsibility of contractor. Contractor shall submit for approval the DMS hanger details and all connection hardware necessary to attach the DMS to the sign structure. DMS hanger detail drawings and calculations shall be signed and sealed by a Professional Engineer in the State of Florida.
28. The upright curvature shall be accomplished by induction bending. The Fabricator performing the induction bending shall have a minimum of (5) years experience. The Fabricator's proposed induction bending plan shall be submitted for approval. This plan shall describe the equipment, methods and procedures to be used to induction bend the pipe. The plan shall include the Fabricator's means for ensuring that the physical and mechanical properties of the bent sections are not adversely affected by the induction bending process. Fabrication shall not begin until the procedure is approved by the Engineer.

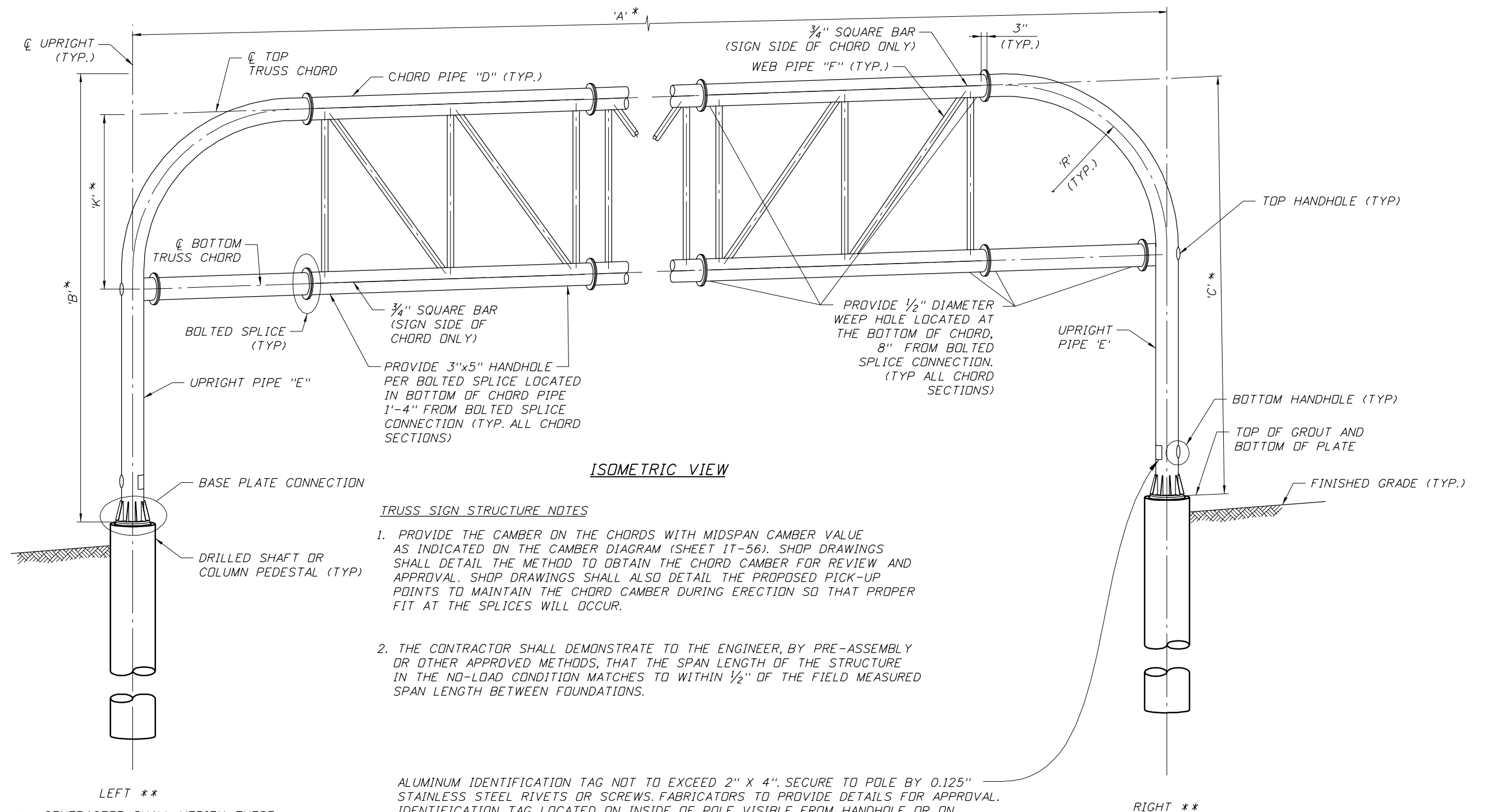
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY: MO 3/09			DMS TRUSS SIGN STRUCTURES GENERAL NOTES	
						CHECKED BY: ALL 3/09				
						DESIGNED BY: JK 3/09				
						CHECKED BY: ALL 3/09				
						APPROVED BY: ANTONIO LEDESMA			PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						ENGINEER OF RECORD: PB Americas, Inc. 5405 West Cypress Street, Suite 300 Tampa, Florida 33607 Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E. #60149				
						ROAD NO. COUNTY FINANCIAL PROJECT ID SR 400 HILLSBOROUGH 258415-2-52-01				

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

DRILLED SHAFT NOTES

1. DATA CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES, COORDINATE WITH THE ROADWAY PLANS, AND FIELD VERIFY UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION TO AVOID DAMAGE THERETO. THE ENGINEER SHALL BE CONTACTED FOR ANY MODIFICATIONS REQUIRED DUE TO CONFLICTS.
2. THE FOUNDATIONS FOR THE SIGN OR POLE STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 455 OF THE FDOT'S SPECIFICATIONS EXCEPT THAT, NO PAYMENT FOR THE FOUNDATIONS SHALL BE MADE UNDER SECTION 455. THE COST OF PROVIDING THE FOUNDATION SHALL BE INCLUDED IN THE PAY ITEM FOR THE COMPLETED SIGN OR POLE STRUCTURE.
3. THE FOUNDATION DESIGN IS BASED ON THE BORINGS AND SOIL DESIGN PARAMETERS SHOWN ON THE REPORT OF CORE BORING SHEETS.
4. TEMPORARY CASING OR SLURRY MAY BE REQUIRED DURING DRILLED SHAFT CONSTRUCTION. SLURRY AS DESCRIBED IN SPECIFICATION 455-15.8.1, WILL INCLUDE NATURAL MINERAL SLURRY, FORMED FROM WATER AND NATURAL MINERALS IN THE SHAFT EXCAVATION FOR PURPOSE OF THE TIME OF EXCAVATION. CONTRACTOR SHALL ANTICIPATE THE NEED FOR DESANDING EQUIPMENT IF THE SLURRY METHOD IS UTILIZED. THE COST OF TEMPORARY CASING SHALL BE INCLUDED IN THE COST OF THE COMPLETED SIGN STRUCTURE OR CCTV/MVDS POLES.
5. IF ANY SHAFT IS CONSTRUCTED USING THE PERMANENT CASING METHOD, THE SHAFT SHALL BE EXCAVATED TO A REVISED TIP ELEVATION APPROVED BY THE ENGINEER. NO COMPENSATION WILL BE PAID FOR PERMANENT CASING. ADDITIONAL SHAFT LENGTH AND EXCAVATION RESULTING FROM THE USE OF PERMANENT CASING SHALL BE INCLUDED IN THE COST OF THE COMPLETED SIGN STRUCTURE.
6. DURING INSTALLATION OF DRILLED SHAFTS HARD CHERT MAY BE ENCOUNTERED. SPECIAL TOOLS AND EQUIPMENT MAY BE REQUIRED AND SHALL BE ANTICIPATED.
7. BASED ON A REVIEW OF THE MAP POTENTIOMETRIC SURFACE OF THE UPPER FLORIDIAN AQUIFER SYSTEM, WEST-CENTRAL FLORIDA, MAY 2005 PUBLISHED BY USGS, THE POTENTRIOMETRIC LEVEL IN THE VICINITY OF THE PROJECT SITE IS APPROXIMATELY 10 TO 20 FEET, NGVD. THE CONTRACTOR'S EQUIPMENT SHALL BE CAPABLE OF HANDLING THIS POTENTIOMETRIC LEVEL.
8. LOCATIONS OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO EXCAVATION OF DRILLED SHAFTS.
9. FOR CONSTRUCTION OF DRILLED SHAFTS LOCATED 9 FEET OR LESS (CLEAR DISTANCE) FROM EXISTING MSE WALLS, OSCILLATION OR OTHER NON-VIBRATORY INSTALLATION AND REMOVAL OF STEEL CASING WILL BE REQUIRED. VIBRATION OF STEEL CASING IS PROHIBITED.
10. CONTAMINATED SOILS WILL BE ENCOUNTERED DURING EXCAVATION. FOR DISPOSAL OF CONTAMINATED MATERIAL DURING SHAFT EXCAVATION REFER TO THE ROADWAY GENERAL NOTES.

REVISIONS						CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ENGINEER OF RECORD:			DMS TRUSS SIGN STRUCTURES DRILLED SHAFT NOTES	
						FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 400 HILLSBOROUGH 258415-2-52-01			PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						ENGINEER OF RECORD: PB Americas, Inc. 5405 West Cypress Street, Suite 300 Tampa, Florida 33607 Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			SHEET NO. IT-52	



ISOMETRIC VIEW

TRUSS SIGN STRUCTURE NOTES

1. PROVIDE THE CAMBER ON THE CHORDS WITH MIDSPAN CAMBER VALUE AS INDICATED ON THE CAMBER DIAGRAM (SHEET IT-56). SHOP DRAWINGS SHALL DETAIL THE METHOD TO OBTAIN THE CHORD CAMBER FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL ALSO DETAIL THE PROPOSED PICK-UP POINTS TO MAINTAIN THE CHORD CAMBER DURING ERECTION SO THAT PROPER FIT AT THE SPLICES WILL OCCUR.
2. THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER, BY PRE-ASSEMBLY OR OTHER APPROVED METHODS, THAT THE SPAN LENGTH OF THE STRUCTURE IN THE NO-LOAD CONDITION MATCHES TO WITHIN 1/2" OF THE FIELD MEASURED SPAN LENGTH BETWEEN FOUNDATIONS.

ALUMINUM IDENTIFICATION TAG NOT TO EXCEED 2" X 4". SECURE TO POLE BY 0.125" STAINLESS STEEL RIVETS OR SCREWS. FABRICATORS TO PROVIDE DETAILS FOR APPROVAL. IDENTIFICATION TAG LOCATED ON INSIDE OF POLE VISIBLE FROM HANDHOLE, OR ON OUTSIDE OF POLE INSIDE TERMINAL COMPARTMENT. TAG TO BE STAMPED WITH THE FOLLOWING INFORMATION.:

- FINANCIAL PROJECT I.D.
- POLE BASE DIAMETER (IN)
- POLE WALL THICKNESS (IN)
- CHORD DIAMETER AT POLE (IN)
- CHORD WALL THICKNESS (IN)
- MANUFACTURER'S NAME

* CONTRACTOR SHALL VERIFY THESE DIMENSION PRIOR TO FABRICATION.

** IN REFERENCE TO LOOKING STATIONS AHEAD.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

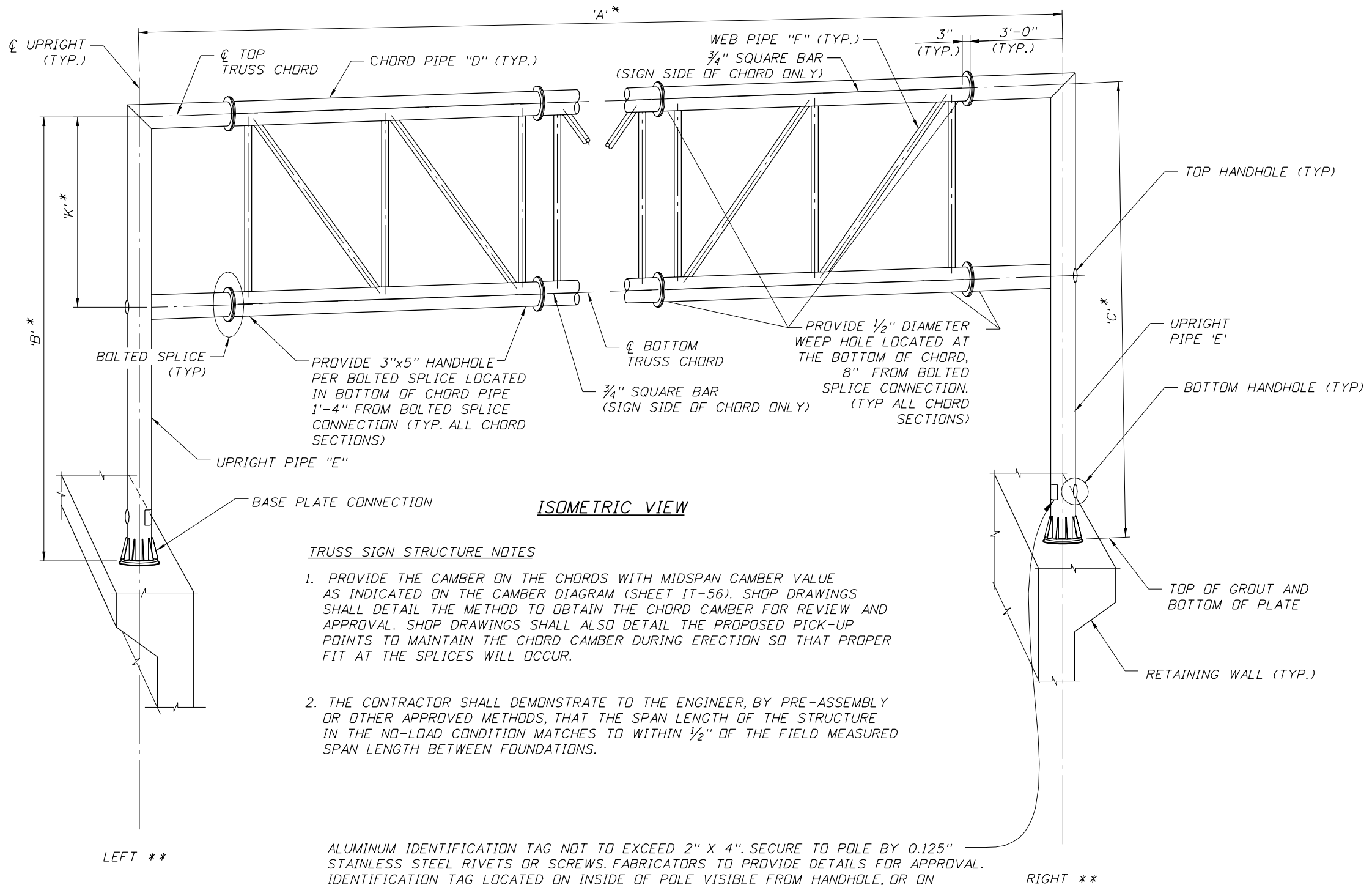
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MO		3/09
ALL		3/09
JK		3/09
ALL		3/09
ANTONIO LEDESMA		

ENGINEER OF RECORD:
PB Americas, Inc.
 5405 West Cypress Street, Suite 300
 Tampa, Florida 33607
 Certificate of Authorization No. 00001462
 Antonio L. Ledesma, P.E.#60149

CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		SHEET NO.
DMS TRUSS SIGN STRUCTURES NOTES AND ISOMETRIC VIEW (1 OF 2)		
PROJECT NAME:		
I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		IT-53

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TRUSS SIGN STRUCTURE NOTES

1. PROVIDE THE CAMBER ON THE CHORDS WITH MIDSPAN CAMBER VALUE AS INDICATED ON THE CAMBER DIAGRAM (SHEET IT-56). SHOP DRAWINGS SHALL DETAIL THE METHOD TO OBTAIN THE CHORD CAMBER FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL ALSO DETAIL THE PROPOSED PICK-UP POINTS TO MAINTAIN THE CHORD CAMBER DURING ERECTION SO THAT PROPER FIT AT THE SPLICES WILL OCCUR.
2. THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER, BY PRE-ASSEMBLY OR OTHER APPROVED METHODS, THAT THE SPAN LENGTH OF THE STRUCTURE IN THE NO-LOAD CONDITION MATCHES TO WITHIN 1/2" OF THE FIELD MEASURED SPAN LENGTH BETWEEN FOUNDATIONS.

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- FINANCIAL PROJECT I.D.
- POLE BASE DIAMETER (IN)
- POLE WALL THICKNESS (IN)
- CHORD DIAMETER AT POLE (IN)
- CHORD WALL THICKNESS (IN)
- MANUFACTURER'S NAME

* CONTRACTOR SHALL VERIFY THESE DIMENSION PRIOR TO FABRICATION OF ARM AND UPRIGHTS.

** IN REFERANCE TO LOOKING STATIONS AHEAD.

REVISIONS

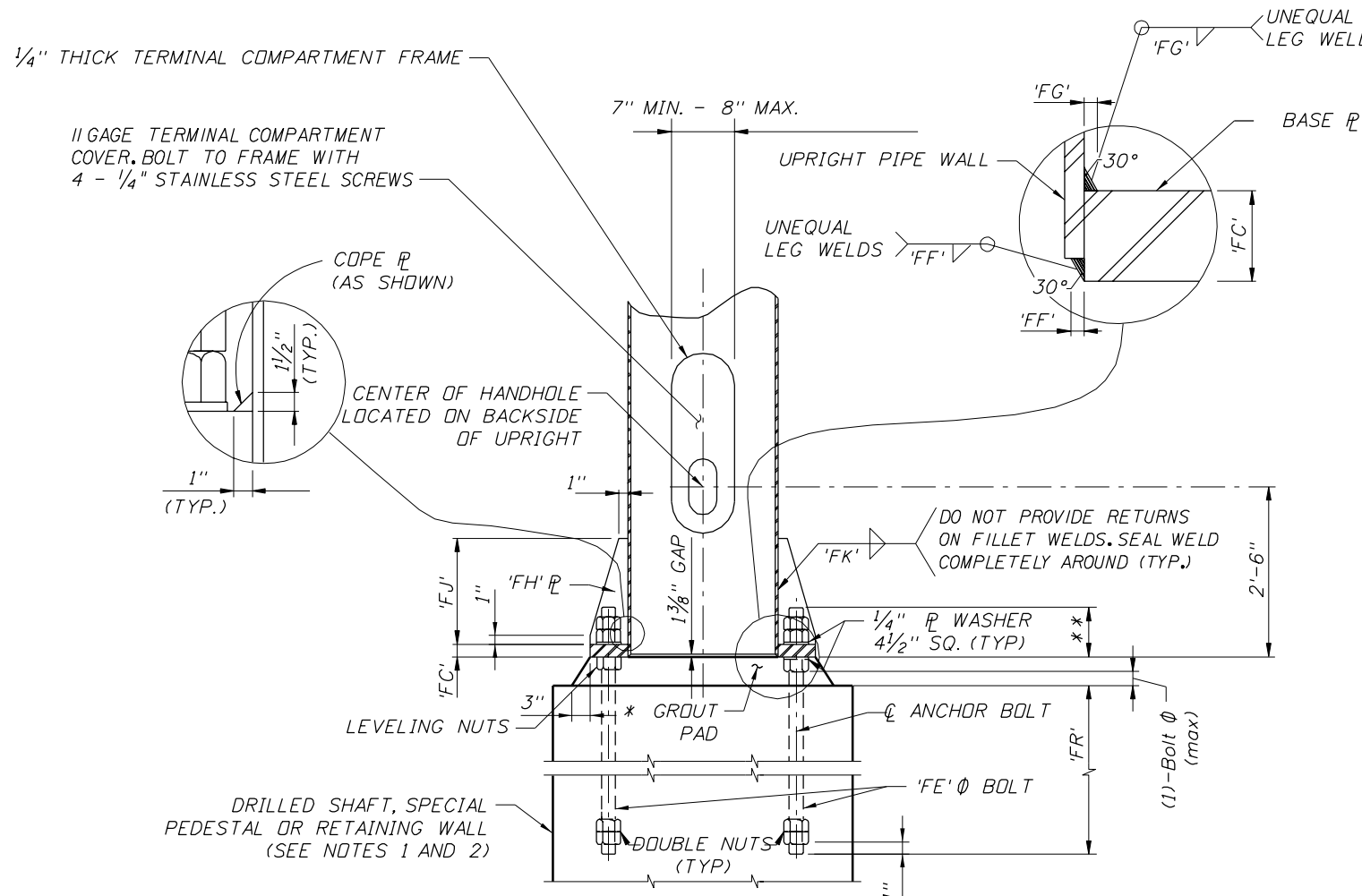
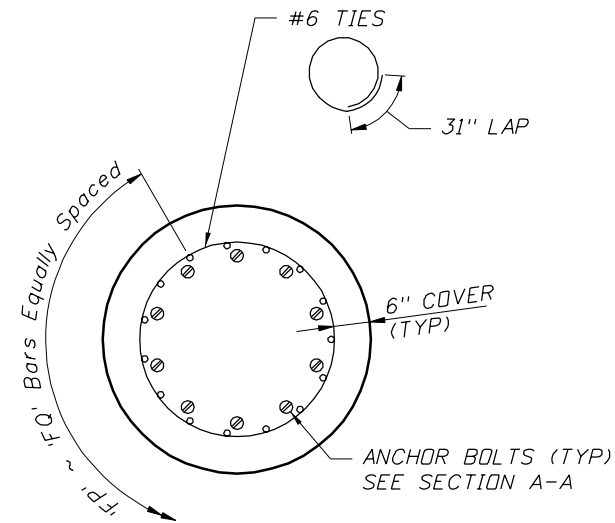
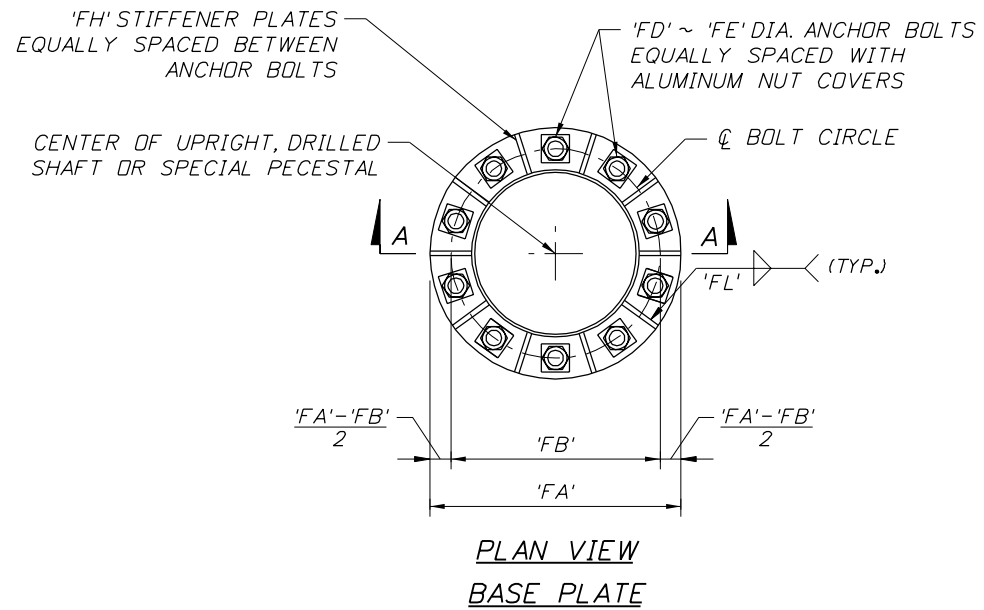
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DRAWN BY	NAMES	DATES
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CHECKED BY	ALL	3/09
DESIGNED BY	JK	3/09
CHECKED BY	ALL	3/09
APPROVED BY	ANTONIO LEDESMA	

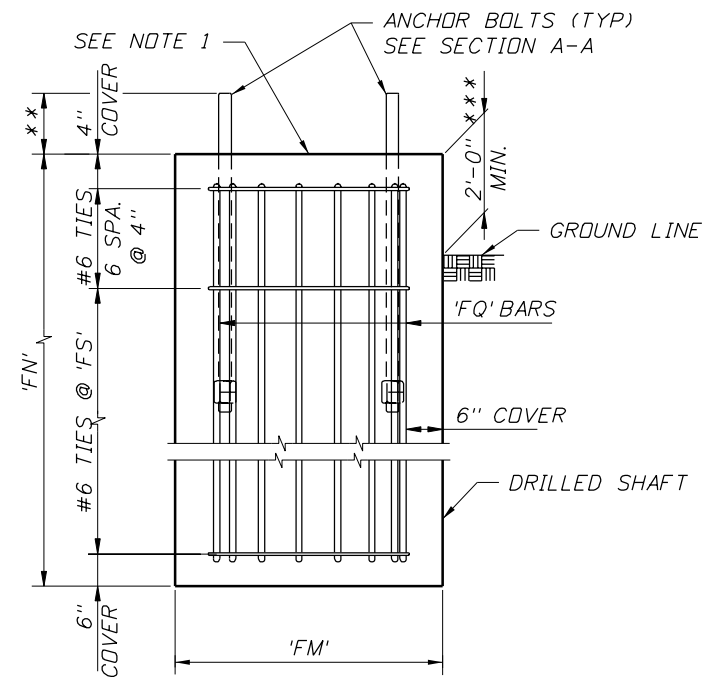
ENGINEER OF RECORD:
PB Americas, Inc.
 5405 West Cypress Street, Suite 300
 Tampa, Florida 33607
 Certificate of Authorization No. 00001462
 Antonio L. Ledesma, P.E.#60149

CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		SHEET NO.
DMS TRUSS SIGN STRUCTURES NOTES AND ISOMETRIC VIEW (2 OF 2)		
PROJECT NAME:		
1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		IT-54



PLAN VIEW
DRILLED SHAFT



ELEVATION
DRILLED SHAFT

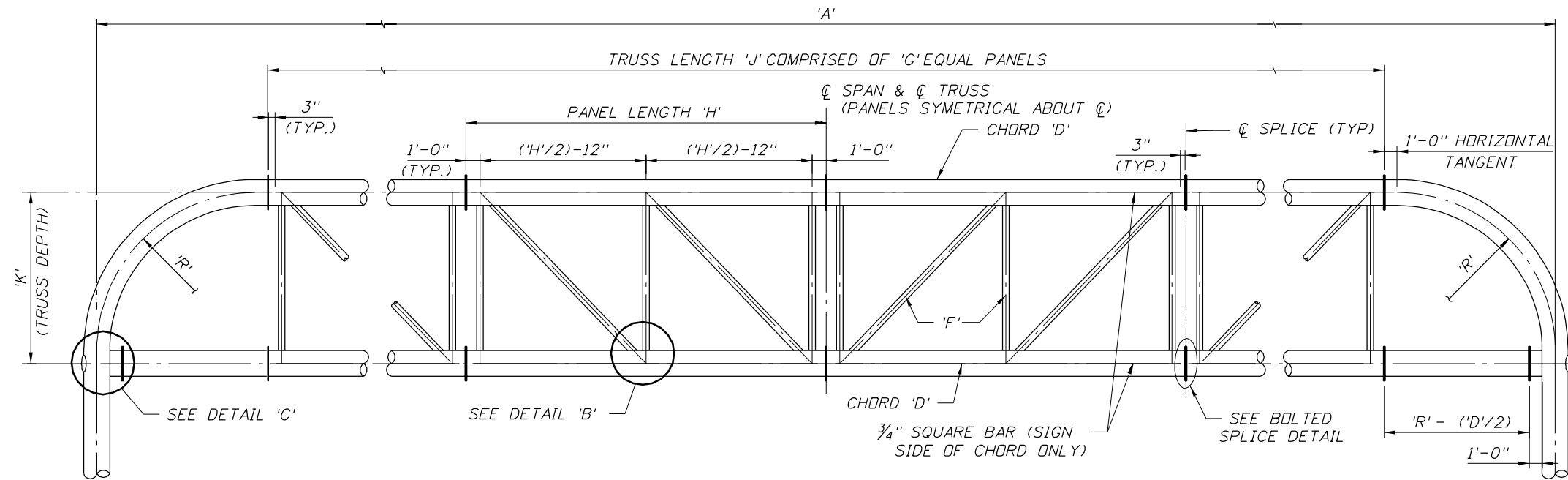
NOTE:

1. SEE "SPECIAL PEDESTAL DETAILS" SHEET IT-63 FOR SIGN STRUCTURE 10S700.
2. SEE "RETAINING WALL DETAILS", SHEETS BW-27 THRU BW-29, FOR SIGN STRUCTURE 10S692.
3. Provide wire entry conduit as required in drilled shaft.

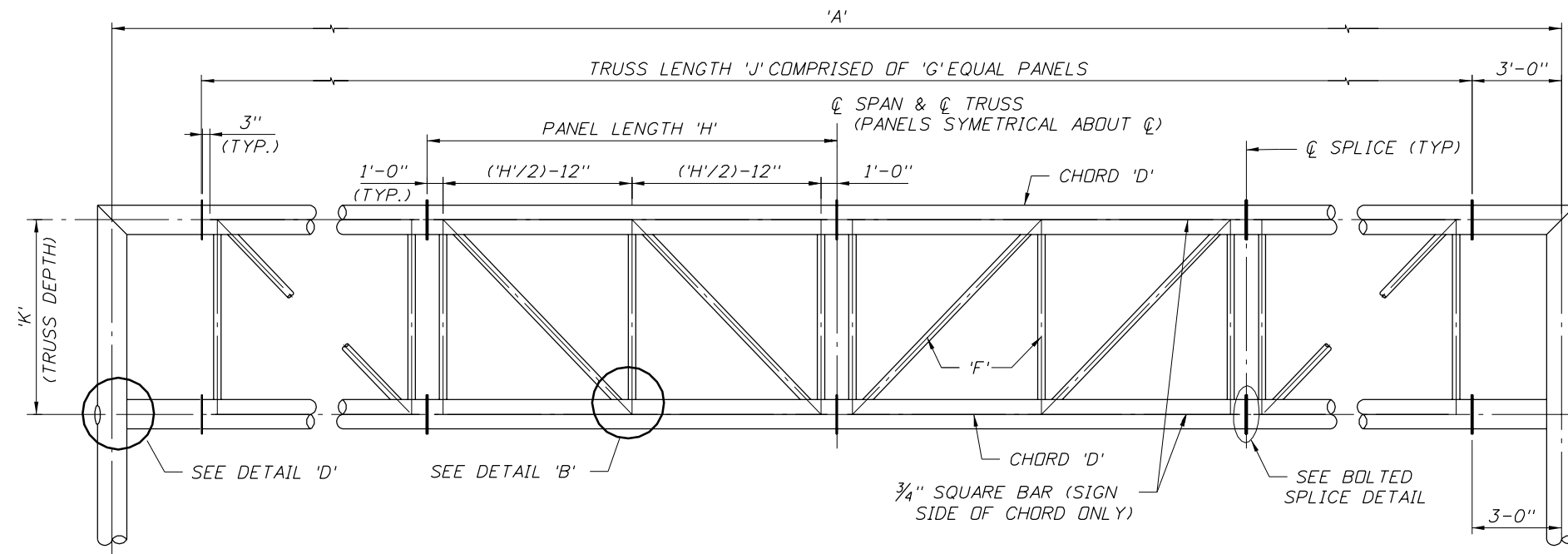
- * PROVIDE 3/4" DRAINAGE SLOT IN GROUT PAD BETWEEN BOLTS (ONE PER FOUNDATION)
- ** ANCHOR BOLT PROJECTION SHALL BE DETAILED IN THE SHOP DRAWINGS BY THE FABRICATOR
- *** ONLY APPLICABLE WHERE THE UPRIGHT IS MOUNTED DIRECTLY TO DRILLED SHAFT

SECTION A-A

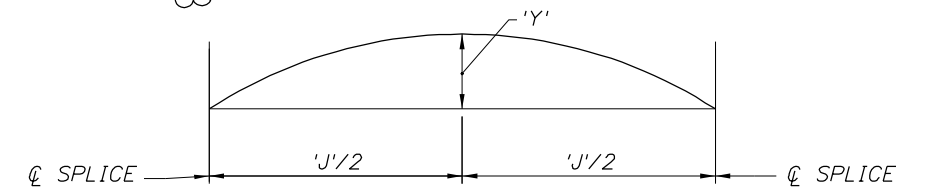
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ENGINEER OF RECORD:			DMS TRUSS SIGN STRUCTURES DETAILS (1 OF 4)	
						FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 400 HILLSBOROUGH 258415-2-52-01			PROJECT NAME:	
						DRAWN BY: MO 3/09 CHECKED BY: ALL 3/09 DESIGNED BY: JK 3/09 CHECKED BY: ALL 3/09 APPROVED BY: ANTONIO LEDESMA			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE SHEET NO. 17-55	
						ENGINEER OF RECORD: PB Americas, Inc. 5405 West Cypress Street, Suite 300 Tampa, Florida 33607 Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			SHEET NO. 17-55	



TYPICAL TRUSS ELEVATION



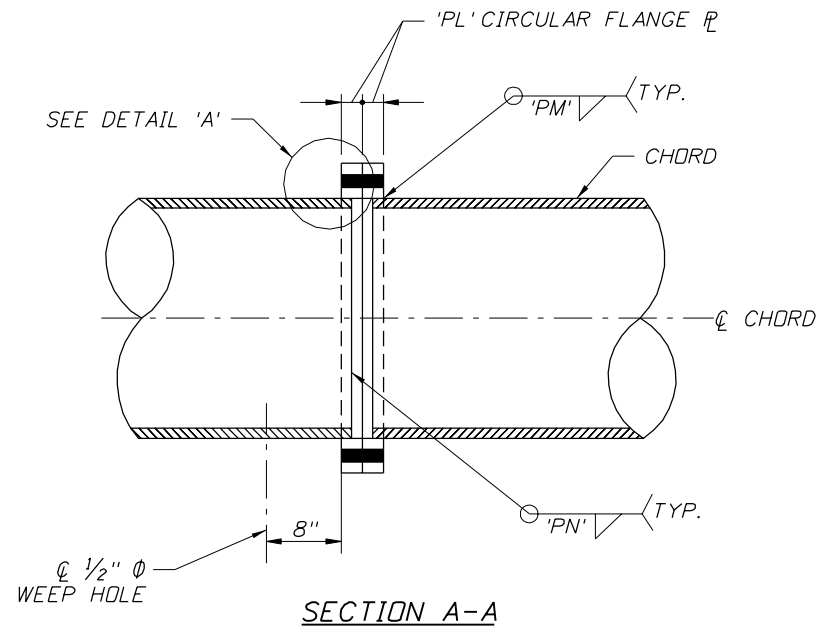
MITERED TRUSS ELEVATION



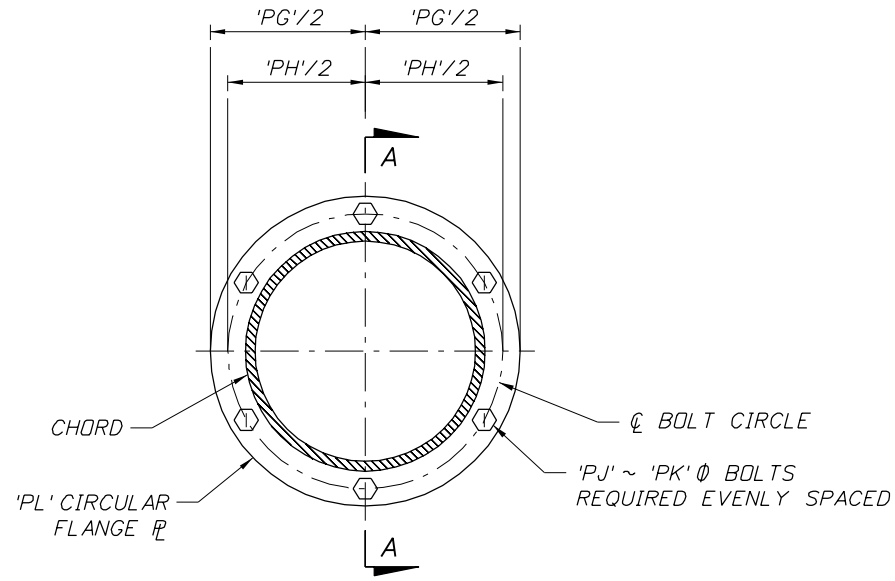
CAMBER DIAGRAM

REVISIONS						CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			DMS TRUSS SIGN STRUCTURES DETAILS (2 OF 4)	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	
						SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
DRAWN BY: MO 3/09						ENGINEER OF RECORD: PB Americas, Inc.			SHEET NO.	
CHECKED BY: ALL 3/09						5405 West Cypress Street, Suite 300			17-56	
DESIGNED BY: JK 3/09						Tampa, Florida 33607				
CHECKED BY: ALL 3/09						Certificate of Authorization No. 00001462				
APPROVED BY: ANTONIO LEDESMA						Antonio L. Ledesma, P.E.#60149				

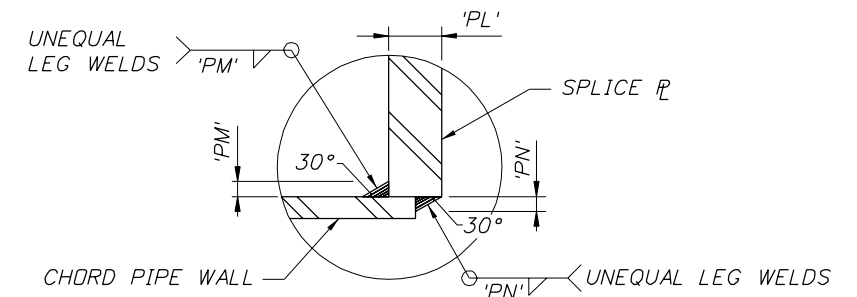
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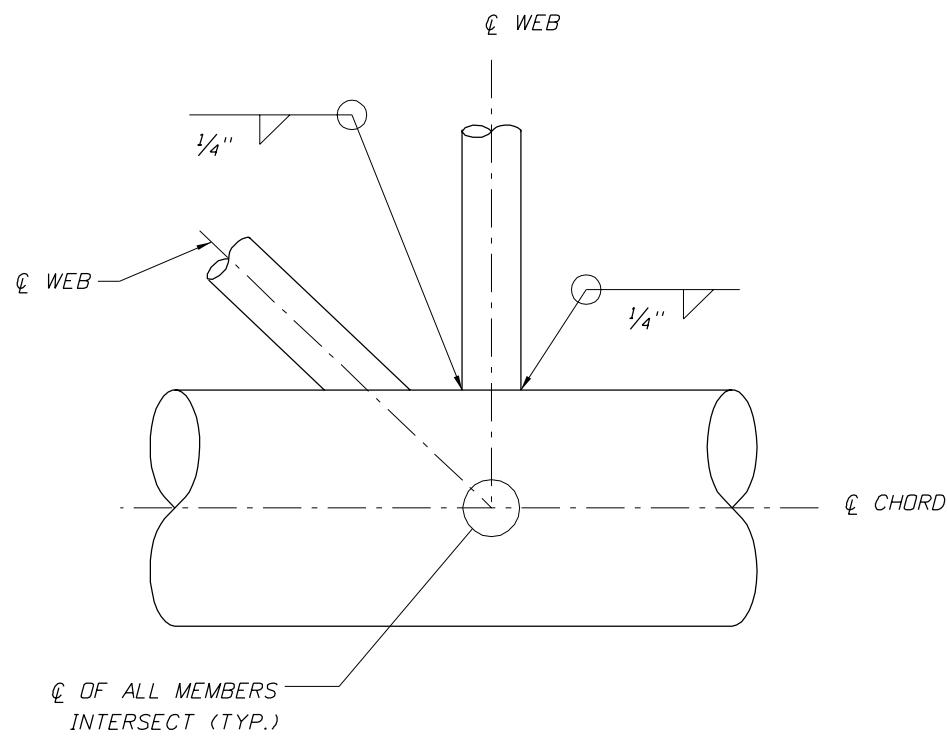
SECTION A-A



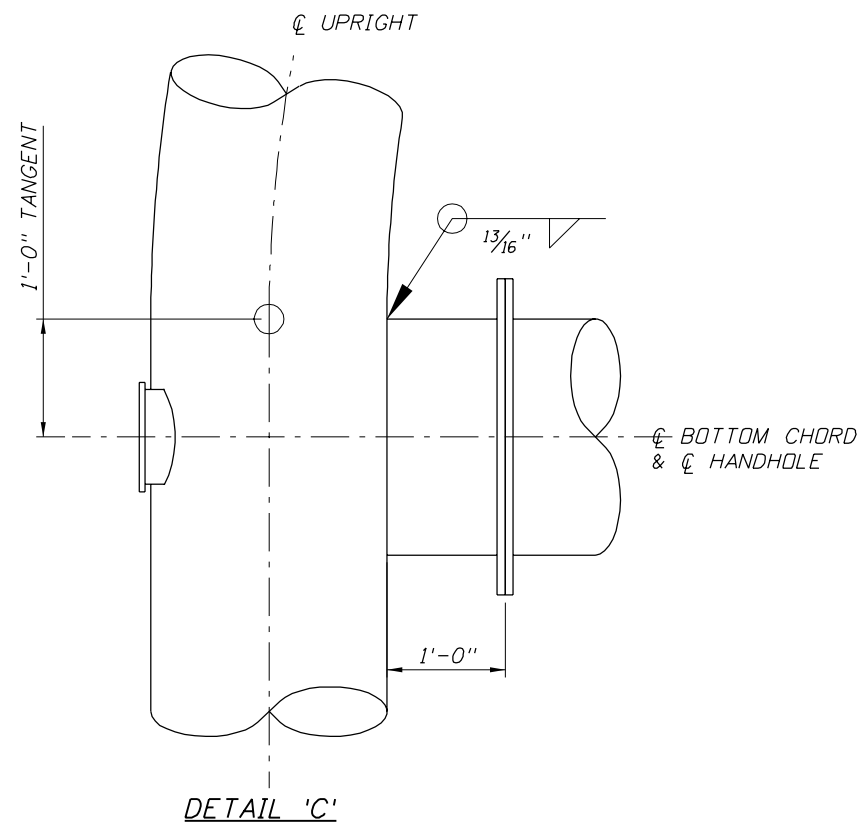
BOLTED FIELD SPLICE DETAILS



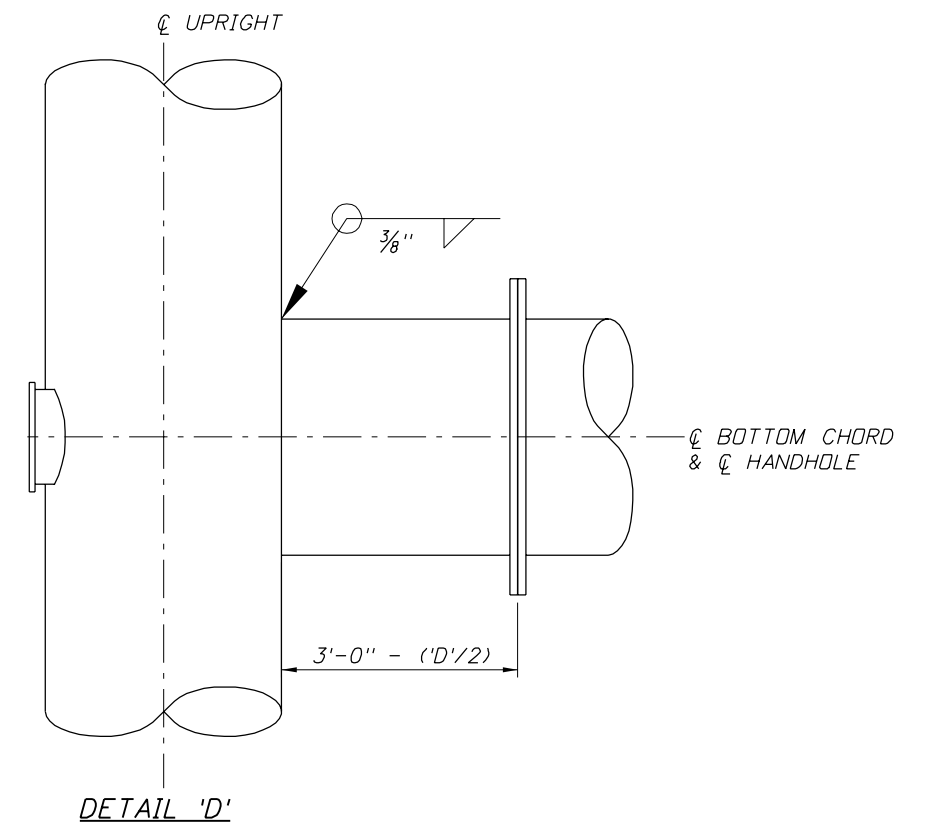
DETAIL 'A'



DETAIL 'B'
(BOTTOM CHORD SHOWN,
TOP CHORD SIMILAR)



DETAIL 'C'



DETAIL 'D'

REVISIONS						CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			DMS TRUSS SIGN STRUCTURES DETAILS (3 OF 4)	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	
						SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
									SHEET NO.	IT-57

DRAWN BY: MO 3/09
 CHECKED BY: ALL 3/09
 DESIGNED BY: JK 3/09
 CHECKED BY: ALL 3/09
 APPROVED BY: ANTONIO LEDESMA

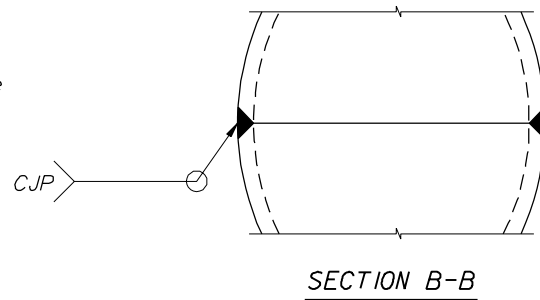
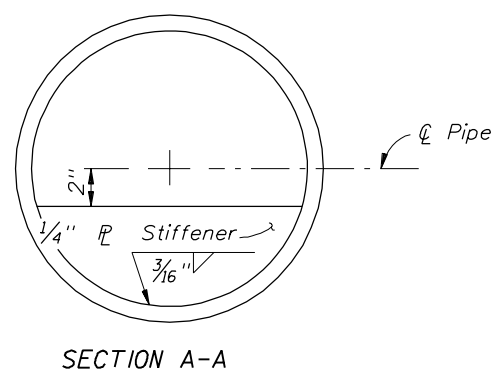
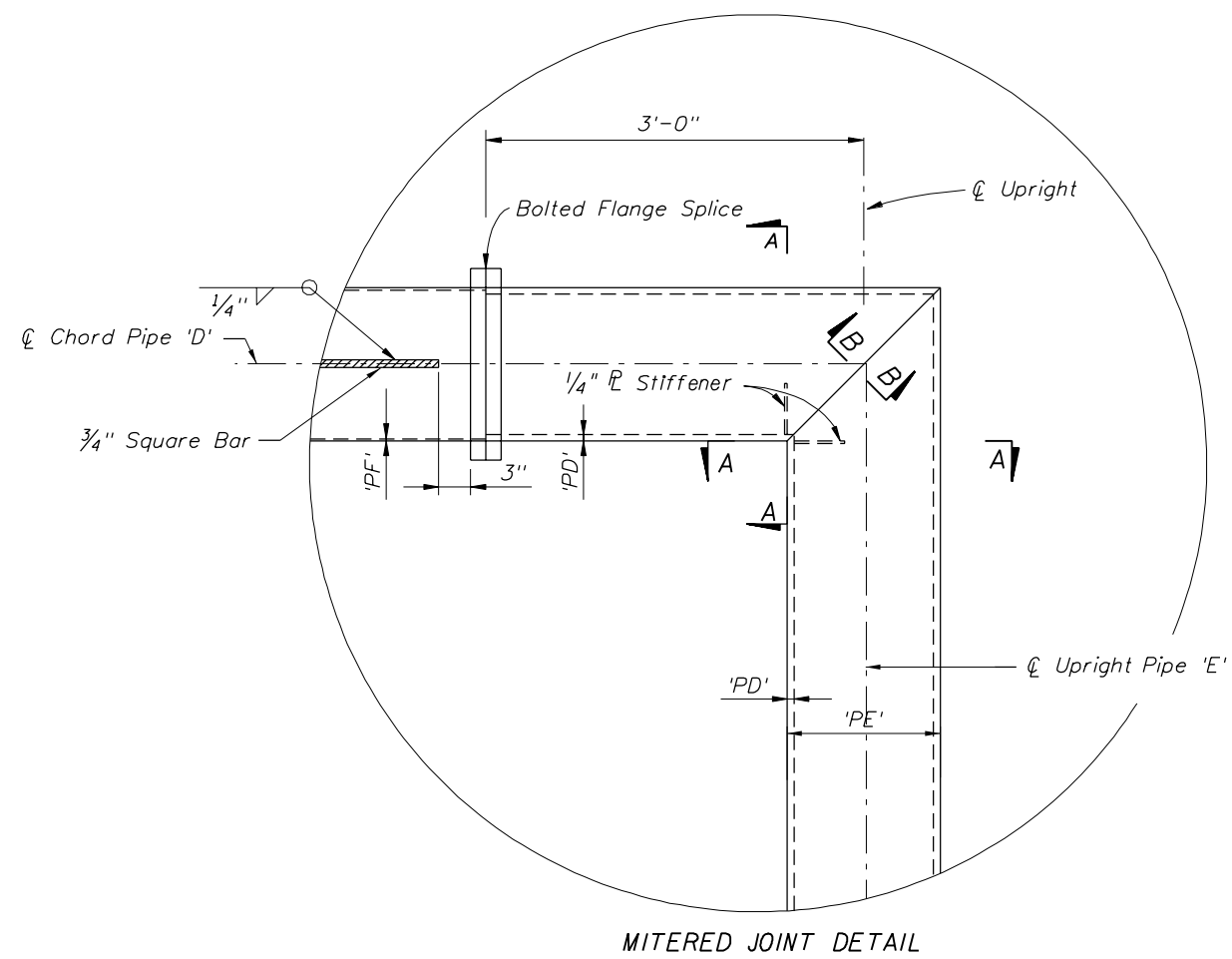
ENGINEER OF RECORD:
 PB Americas, Inc.
 5405 West Cypress Street, Suite 300
 Tampa, Florida 33607
 Certificate of Authorization No. 00001462
 Antonio L. Ledesma, P.E.#60149

FLORIDA DEPARTMENT OF TRANSPORTATION
 ROAD NO. SR 400
 COUNTY HILLSBOROUGH
 FINANCIAL PROJECT ID 258415-2-52-01

PROJECT NAME:
 I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE

SHEET NO.
 IT-57

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MITERED JOINT DETAIL

SECTION A-A

SECTION B-B

REVISIONS						CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			DMS TRUSS SIGN STRUCTURES DETAILS (4 OF 4)	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	
						SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
									SHEET NO.	IT-58

NAME	DATE
DRAWN BY: MO	3/09
CHECKED BY: ALL	3/09
DESIGNED BY: JK	3/09
CHECKED BY: ALL	3/09
APPROVED BY: ANTONIO LEDESMA	

ENGINEER OF RECORD:
PB Americas, Inc.
 5405 West Cypress Street, Suite 300
 Tampa, Florida 33607
 Certificate of Authorization No. 00001462
 Antonio L. Ledesma, P.E.#60149

SPAN TRUSS STRUCTURES: TABLE OF VARIABLES *

Structure Number	Reference Baseline	Station	DIMENSIONS			MEMBER SIZES			CHORD PANELS			K	R	Y	CHORD FLANGE SPLICE DATA **						
			A	B	C	D	E	F	G	H	J				PG	PH	PJ	PK	PL	PM	PN
			Chord Span (ft)	Left Upright Height (ft)	Right Upright Height (ft)	Chord 'PE' x 'PF' (in)	Left & Right Upright 'PE' x 'PD' (in)	Web (in)	No. of Panels --	Panel Length (ft)	Truss Length (ft)				Truss Depth (ft)	Upright Radius (ft)	Chord Camber (in)	Splice Plate Outside Diameter (in)	Bolt Circle Diameter (in)	No. of Bolts --	Bolt Diameter (in)
10S692	Ramp B	8030+50	49'-6"	27.625	28.687	24 Ø X 0.250	24 Ø X 0.688	6.625 Ø X 0.125	2	21'-9"	43'-6"	5'-6"	0	1/16"	32	28	8	1"	7/8"	5/16"	3/16"
10S697	Ramp E	6055+55	71'-6"	11.917	30.917	24 Ø X 0.250	24 Ø X 0.688	6.625 Ø X 0.125	4	16'-4 1/2"	65'-6"	5'-6"	0	1/16"	32	28	10	1"	1 1/4"	5/16"	3/16"
10S700	SR 400	3857+76	115'-6"	38.250	33.250	24 Ø X 0.688	24 Ø X 0.968	6.625 Ø X 0.250	4	22'-4 1/2"	89'-6"	13'-0"	12'-0"	1 1/16"	34	29	14	1 1/4"	2"	5/16"	3/8"

SPAN TRUSS STRUCTURES: TABLE OF VARIABLES *

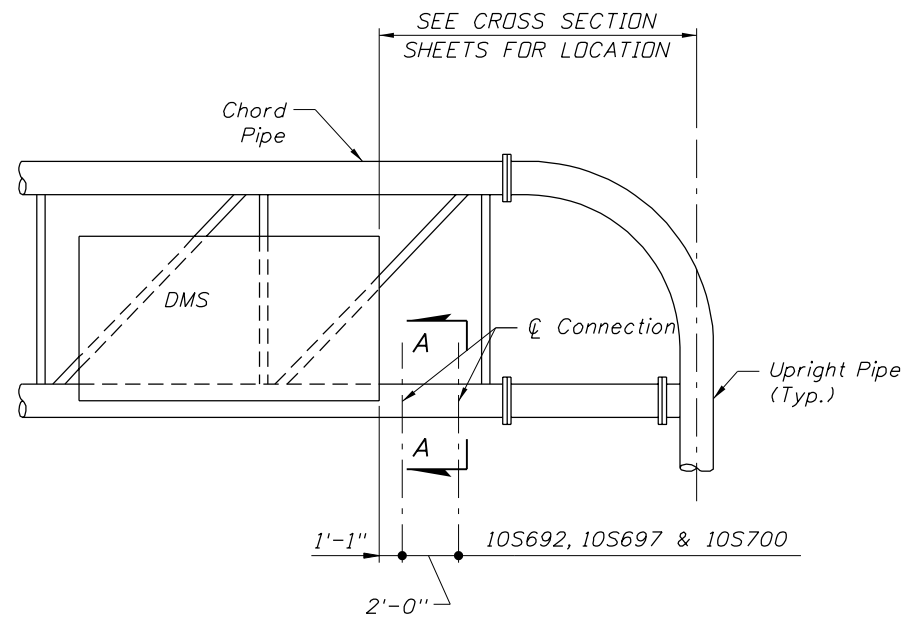
Structure Number	BASE PLATE DATA							STIFFENER PLATE DATA			
	FA	FB	FC	FD	FE	FF	FG	FH	FJ	FK	FL
	Base Plate Outside Diameter (in)	Anchor Bolt Circle Diameter (in)	Base Plate Thickness (in)	No. of Anchor Bolts --	Anchor Bolt Diameter (in)	Base Plate Inside Weld (in)	Base Plate Outside Weld (in)	Stiffener Plate Thickness (in)	Stiffener Plate Height (in)	Stiffener Plate Weld To Upright (in)	Stiffener Plate Weld To Base Plate (in)
10S692	38	31	2 3/4"	12	1 3/4"	1/2"	3/8"	1 1/16"	14"	5/16"	5/16"
10S697	38	31	2 3/4"	12	1 3/4"	7/16"	5/16"	1 1/16"	14"	5/16"	5/16"
10S700	42	33	4 1/8"	16	2 1/4"	3/4"	1/2"	15/16"	18"	7/16"	5/16"

SPAN TRUSS STRUCTURES: TABLE OF VARIABLES *

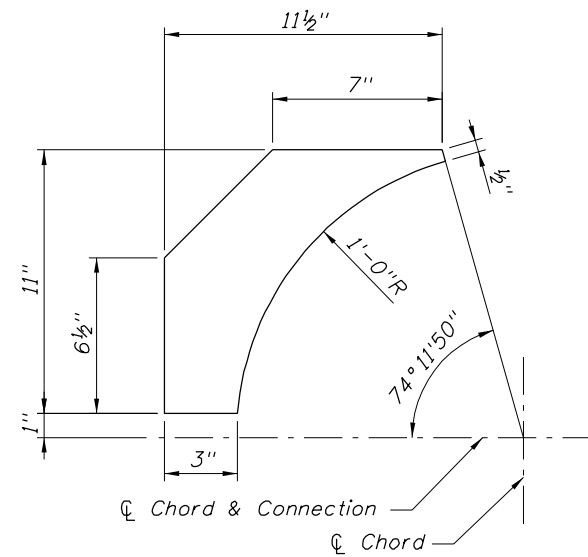
Structure Number	DRILLED SHAFT DATA										
	FM	FN		FP	FQ	FR	FS	LEFT UPRIGHT		RIGHT UPRIGHT	
	Drilled Shaft Diameter (ft)	Left Drilled Shaft Length (ft)	Right Drilled Shaft Length (ft)	No. of Bars --	Bar Size --	Anchor Bolt Embedment (ft)	Tie Spacing (in)	Offset to C of Drilled Shaft from Baseline (ft)	Estimated Top of Drilled Shaft Elevaton (ft)	Offset to C of Drilled Shaft from Baseline (ft)	Estimated Top of Drilled Shaft Elevaton (ft)
10S692	SEE SHEETS BW-27 THRU BW-29 FOR CIP WALL FOUNDATION										
10S697	5'-0"	34'-0"	18'-0"	22	11	4'-0"	12	50.80' Lt	55.00	20.70' Rt	36.00
10S700	5'-0"	32'-0"	28'-0"	22	11	6'-8"	9	197.20' Lt	27.50	81.70' Lt	38.50

- * Quantities are shown for one upright and base assembly. Two of each are required per structure.
- ** Quantities are shown for one chord splice connection. Number of Chord Splice Connections = 2 x ('F'+1) + 2.

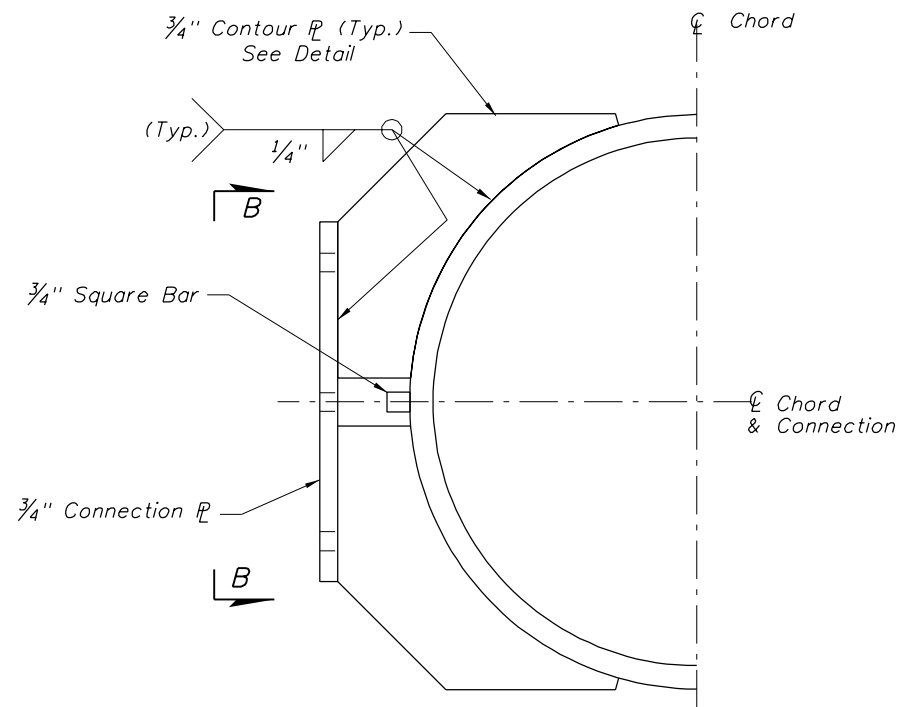
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			DMS TRUSS SIGN STRUCTURES TABLE OF VARIABLES	
						CHECKED BY	MO	3/09	5405 West Cypress Street, Suite 300 Tampa, Florida 33607			PROJECT NAME:	
						DESIGNED BY	ALL	3/09	Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			SR 400 HILLSBOROUGH 258415-2-52-01	
						CHECKED BY	JK	3/09	ROAD NO. COUNTY FINANCIAL PROJECT ID			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						APPROVED BY	ANTONIO LEDESMA		SHEET NO.			IT-59	



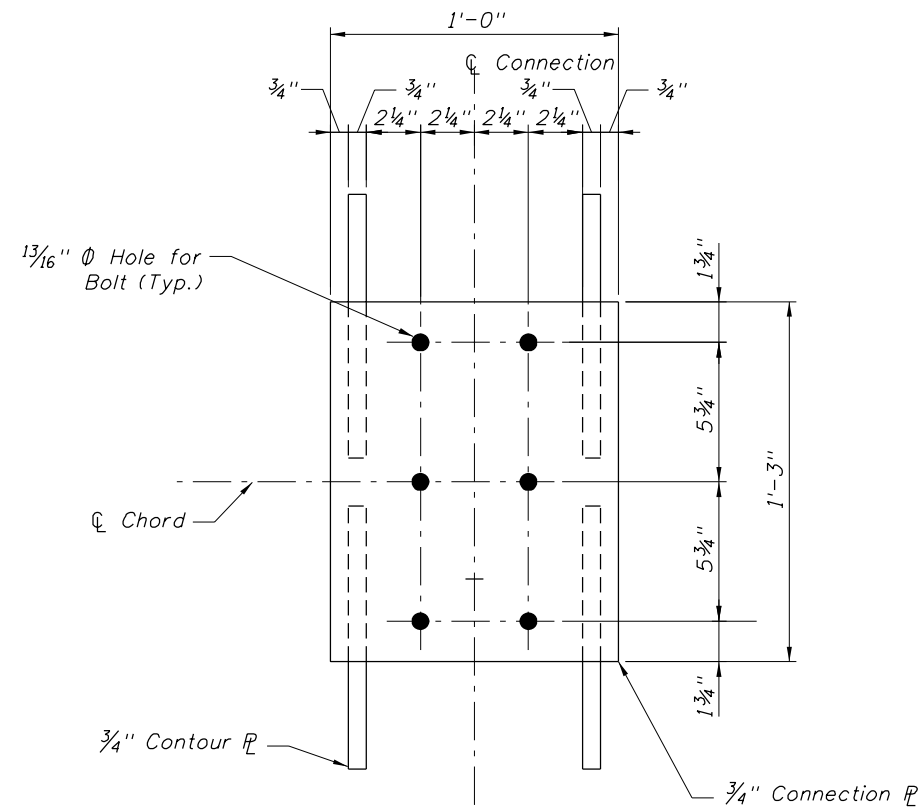
ELEVATION OF MONOTUBE TRUSS



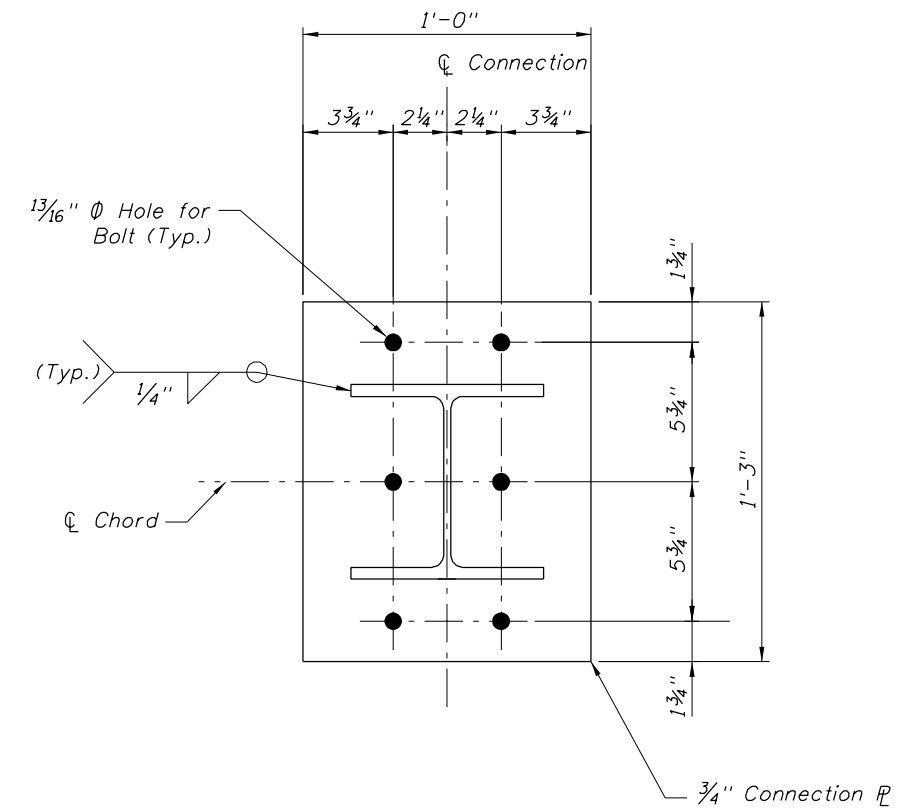
CONTOUR PLATE DETAIL



SECTION A-A



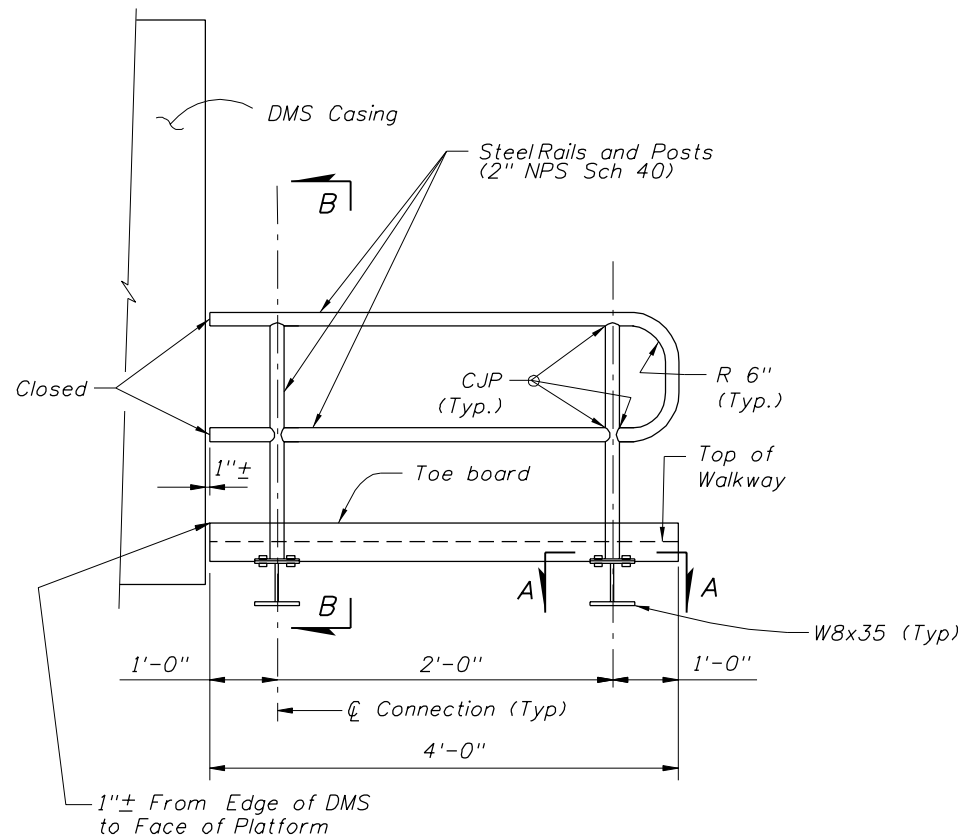
VIEW B-B



WALKWAY ARM CONNECTION DETAIL

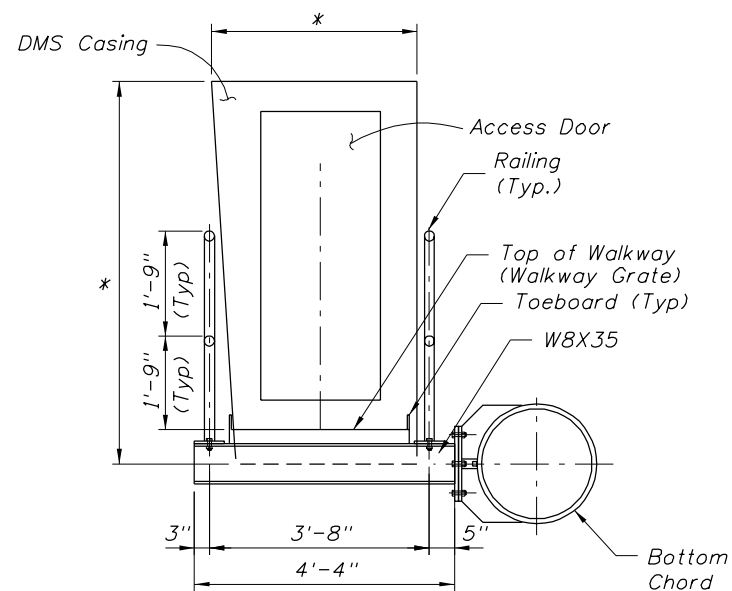
WALKWAY CONNECTION DETAILS

REVISIONS						CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			DMS TRUSS SIGN STRUCTURES WALKWAY DETAILS (1 OF 2)	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	
						SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
DRAWN BY: MD 3/09						ENGINEER OF RECORD: PB Americas, Inc.			SHEET NO.	
CHECKED BY: ALL 3/09						5405 West Cypress Street, Suite 300			17-60	
DESIGNED BY: JK 3/09						Tampa, Florida 33607				
CHECKED BY: ALL 3/09						Certificate of Authorization No. 00001462				
APPROVED BY: ANTONIO LEDESMA						Antonio L. Ledesma, P.E.#80149				



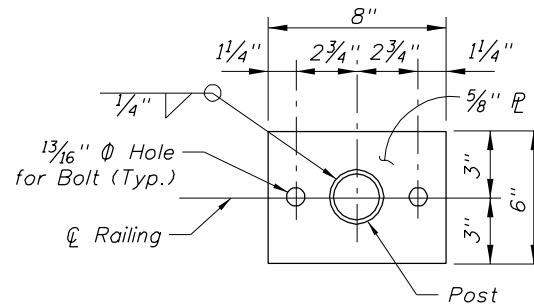
ELEVATION

(Connection to sign structure not shown for clarity)
10S692, 10S697 & 10S700



SECTION B-B

* Contractor shall submit for review the dimensions of the DMS prior to manufacturing this walkway.



VIEW A-A

(Rail Post Connection)

GENERAL SPECIFICATIONS:

The Florida Department of Transportation "Standard Specifications for Road and Bridge Construction", 2007 edition.

DESIGN SPECIFICATIONS:

American Institute of Steel Construction (AISC) "Allowable Stress Design" (9th Edition). AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaries, and Traffic Signals (2001) with 2002, 2003 and 2006 Interims.

DESIGN LIVE LOADS:

200 lbs. acting in any direction applied at the height of the top rail for design of the railing. 500 lbs single vertical load distributed over two feet transverse to walkway for design of the walkway and its supporting members and connections.

ALTERNATE DESIGN:

Only Items on the FDOT's Qualified Products List (QPL) will be considered for use in alternate designs for the walkway. This applies to either the entire walkway or its individual components. If walkway is re-designed, the drawings and calculations shall be signed and sealed by a Specialty Engineer who is Licensed in the State of Florida.

BEAMS & PLATES:

Steel beams, base plates and connection plates shall be in accordance with ASTM A709 Grade 36, and shall be galvanized in accordance with ASTM A123.

PIPE RAILING & POSTS:

Structural Pipe for railings and posts shall be in accordance with ASTM A53 Grade B and galvanized per ASTM A123. Posts shall be fabricated and installed plumb, +/- 1" tolerance when measured 3'-6" above the walkway.

WALKWAY GRATING:

Walkway shall consist of 12 gage panels of 5 Diamond Grip Strut steel grating (or approved equivalent) galvanized in accordance with ASTM A924. Walkway shall include an integral 5" (min. height) toe board on both sides and shall be secured to the horizontal support members according to manufacturer's recommendations.

BOLTS, NUTS, & WASHERS:

Bolts shall be in accordance with ASTM A325 Type 1. Nuts and washers shall adhere to ASTM A563 and F436, respectively. Nuts shall be single, self-locking nuts. All bolts, nuts and washers shall be galvanized in accordance with ASTM A153.

WELDING:

All welding shall conform to American Welding Society Structural Code (Steel) ANSI/AWS D1.1 (current edition).

SHOP DRAWINGS:

Complete details including railings, posts, walkway platform, and walkway grating shall be submitted by the Contractor for the Engineer's approval prior to fabrication. Shop drawings shall be in accordance with the Specifications.

PAINTING:

All exposed surfaces of walkway components and connections shall be painted as per the General Notes on Sheet IT-51.

PAYMENT:

Payment for the walkway system (including all components and connections) shall be included in the cost of the completed Overhead Sign Structure.

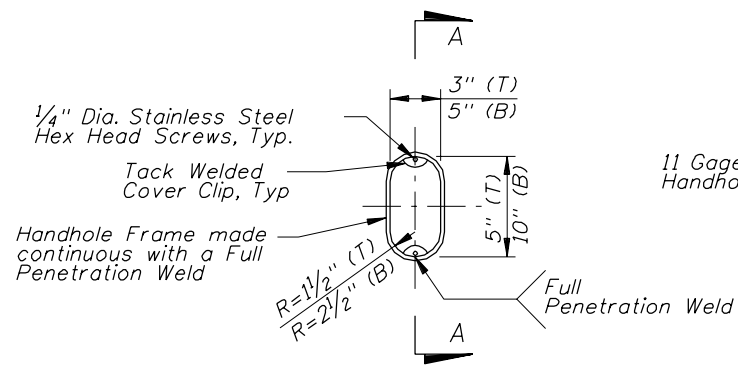
CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		DMS TRUSS SIGN STRUCTURES WALKWAY DETAILS (2 OF 2)
PROJECT NAME:		
1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		SHEET NO. IT-61

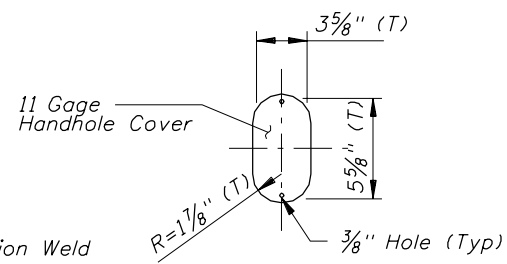
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE
DRAWN BY: MO	3/09
CHECKED BY: ALL	3/09
DESIGNED BY: JK	3/09
CHECKED BY: ALL	3/09
APPROVED BY: ANTONIO LEDESMA	

ENGINEER OF RECORD:
PB Americas, Inc.
5405 West Cypress Street, Suite 300
Tampa, Florida 33607
Certificate of Authorization No. 00001462
Antonio L. Ledesma, P.E.#60149

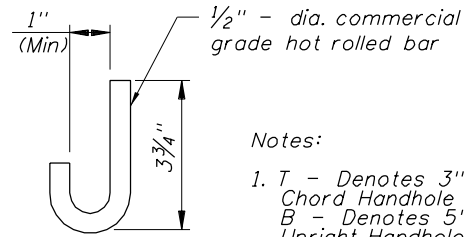


HANDHOLE FRAME



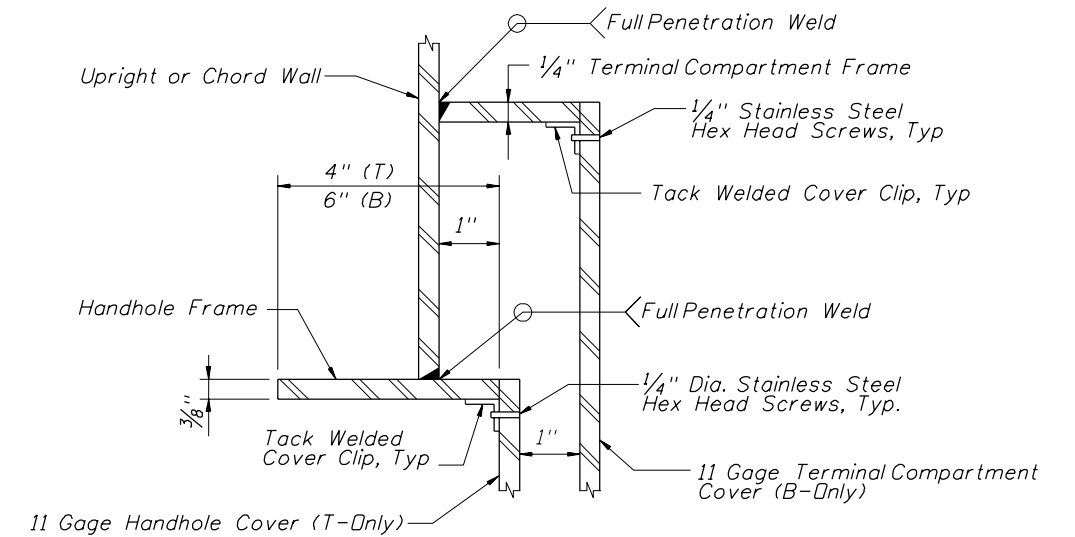
HANDHOLE COVER

(Chord Handhole Only)

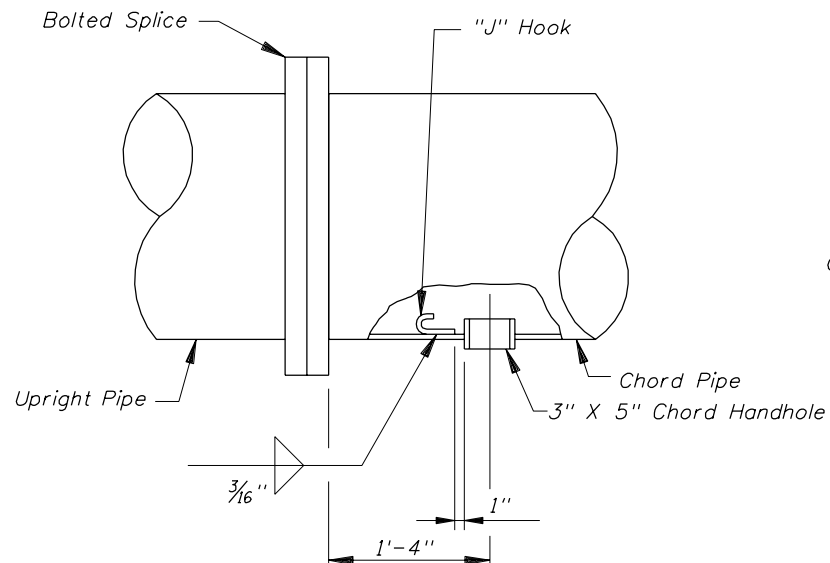


"J" HOOK

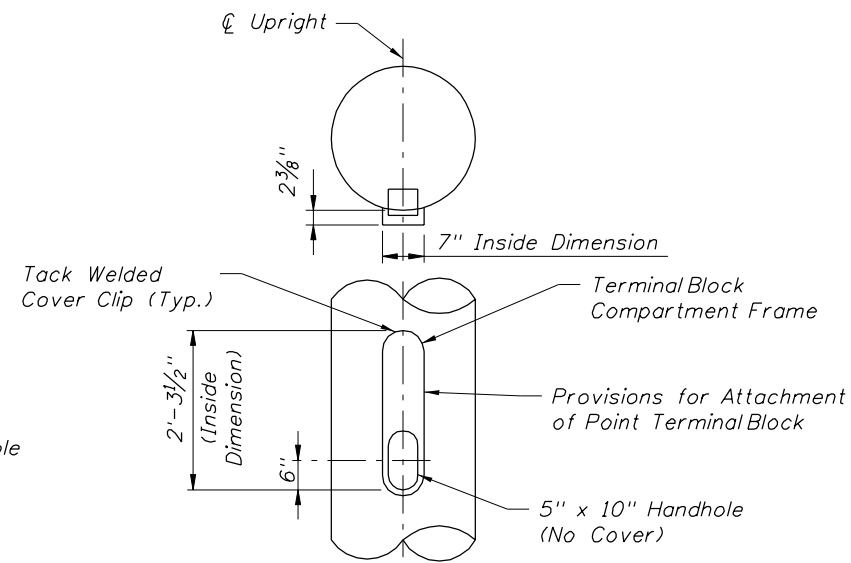
Notes:
 1. T - Denotes 3" x 5" Chord Handhole
 B - Denotes 5" x 10" Upright Handhole



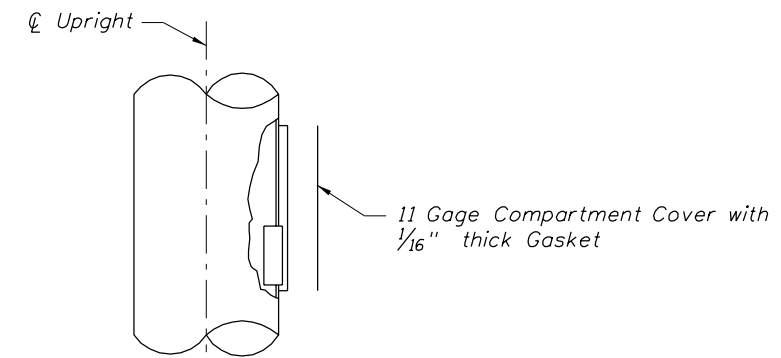
SECTION A-A



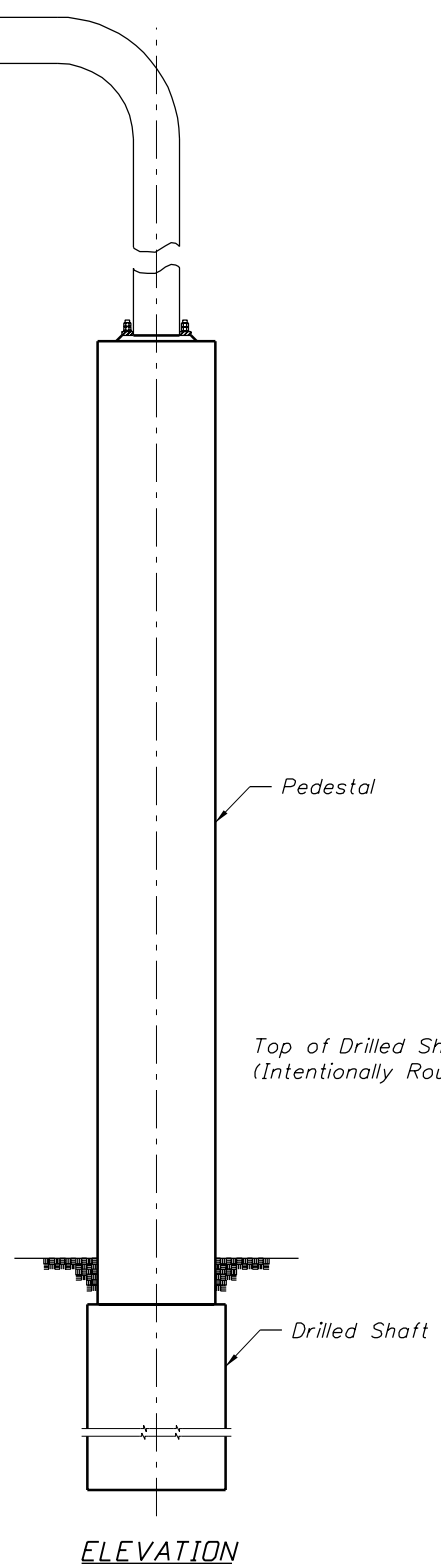
"J" HOOK DETAIL



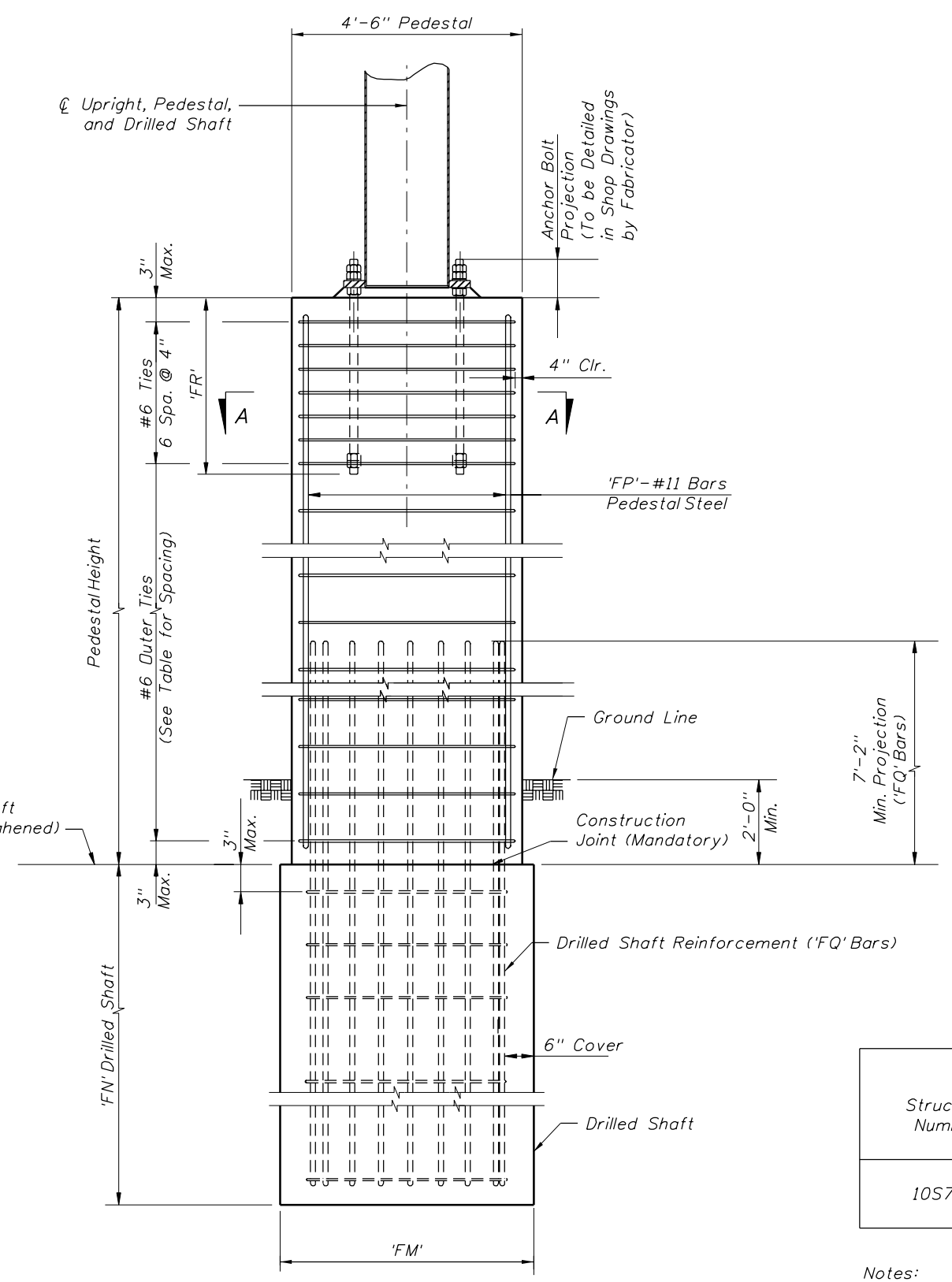
UPRIGHT HANDHOLE DETAIL



REVISIONS						ENGINEER OF RECORD:			CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			DMS TRUSS SIGN STRUCTURES MISCELLANEOUS DETAILS	
						CHECKED BY	MO	3/09	5405 West Cypress Street, Suite 300 Tampa, Florida 33607			ROAD NO.	SHEET NO.
						DESIGNED BY	ALL	3/09	Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#60149			COUNTY	
						CHECKED BY	JK	3/09	SR 400			FINANCIAL PROJECT ID	
						CHECKED BY	ALL	3/09	HILLSBOROUGH			PROJECT NAME:	
						APPROVED BY	ANTONIO LEDESMA		258415-2-52-01			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	

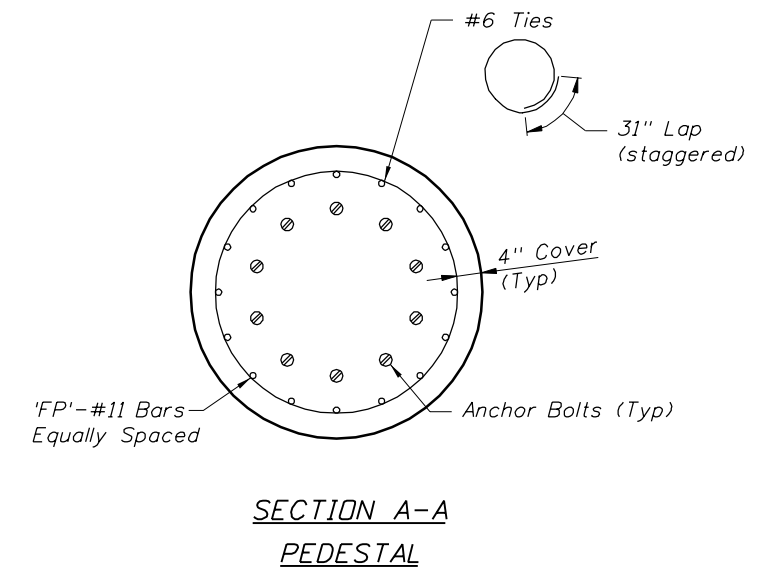


SPECIAL PEDESTAL DETAIL AT STRUCTURE 10S700



SPECIAL PEDESTAL DETAIL

For Anchor Bolt and Drilled Shaft Dimensions, See Sheet IT-55 and IT-59.



Structure Number	Pedestal Offset from Baseline (ft.)	Top of Pedestal Elevation (ft.)	Top of Drilled Shaft Elevation (ft.)	Pedestal Height (ft.)	Tie Spacing (in.)
10S700	197.2 Lt.	42.500	27.500	15.000	10"
	81.7 Lt.	47.500	38.500	9.000	9"

- Notes:**
- Concrete for Special Pedestals shall be Class IV, $f'c = 5.5$ ksi.
 - Provide conduit in column pedestal and drilled shaft for electrical wiring as required.

REVISIONS						ENGINEER OF RECORD			CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	COMPANY	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	
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						CHECKED BY	ALL	3/09				1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						DESIGNED BY	JK	3/09				SHEET NO.	
						CHECKED BY	ALL	3/09				IT-63	
						APPROVED BY	ANTONIO LEDESMA						

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

CCTV CAMERA & DETECTION ZONE POLE & FOUNDATION GENERAL NOTES

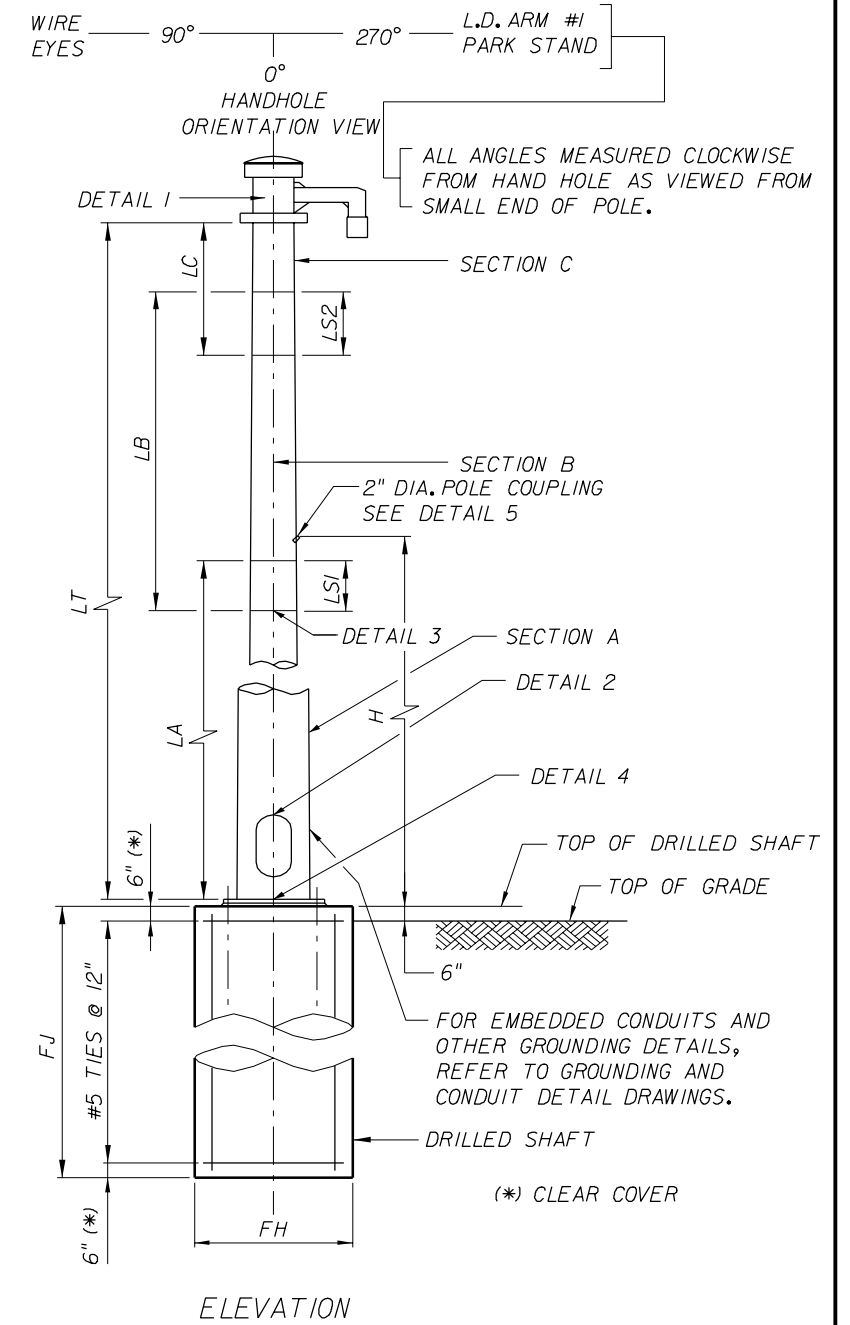
- DESIGN CRITERIA: DESIGNED IN ACCORDANCE WITH THE AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (2001) WITH 2002, 2003 AND 2006 INTERIMS. THE DESIGN WIND SPEED OF 130MPH IS IN CONFORMANCE WITH FDOT "PLAN PREPARATION MANUAL". THE TOP OF THE POLE SHALL NOT EXCEED 1" DEFLECTION IN A 30MPH (NON-GUST) WIND. THE DRILLED SHAFT FOUNDATION DESIGNS ARE BASED ON THE FOLLOWING PARAMETERS:

SOIL PROPERTIES
 SOIL TYPE: SAND
 SOIL LAYER THICKNESS: 17 FEET
 SOIL FRICTION ANGLE: 28 DEGREES
 UNDRAINED SHEAR STRENGTH: N/A
 SOIL WEIGHT: (SUBMERGED) 4.3 PCF
 DESIGN WATER TABLE LOCATED 0.0 FEET BELOW SURFACE

- REFER TO 2008 FDOT DESIGN STANDARDS 18000 SERIES FOR NOTES & DETAILS NOT SHOWN.
- ALTERNATE DESIGNS FOR THESE STRUCTURES ARE NOT ALLOWED.
- THE STRUCTURE MUST BE ASSEMBLED AFTER GALVANIZING AND PRIOR TO PAINTING AND SHIPMENT TO THE SITE TO ASSURE FIT UP. IT MAY BE DISASSEMBLED FOR SHIPPING.
- SHOP DRAWINGS FOR THIS STRUCTURE ARE REQUIRED AND FABRICATION SHALL NOT BEGIN UNTIL THESE SHOP DRAWINGS ARE APPROVED.
- EXCEPT FOR ANCHOR BOLTS, ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16", PRIOR TO GALVANIZING. HOLE DIAMETERS FOR ANCHOR BOLTS SHALL NOT EXCEED THE BOLT DIAMETER PLUS 1/2".
- FOR WIRE ENTRANCE DETAILS AND AIR TERMINAL STAND OFF DETAILS, SEE FDOT DESIGN STANDARD SHEETS.
- ITS POLE PAINT COLOR SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, TECHNICAL SPECIAL PROVISIONS AND AS MANUFACTURED BY RAL 1013, FEDERAL STANDARD NUMBER-17778, GLOSS FINISH.
- REFER TO SHEET IT-52 FOR FOUNDATION NOTES.

SHEET	STRUCTURE	LENGTH (FEET)	COUPLING HEIGHT, (H) (FEET) **
IT-39	CCTV 5	80	N/A
IT-40	MVDS 22 & MVDS 23	65	54, 40

** MULTIPLE VALUES OF "H" SHOWN ON ANY LINE IN THE TABLES ARE IN ORDER OF EACH LISTED MVDS LOCATION.

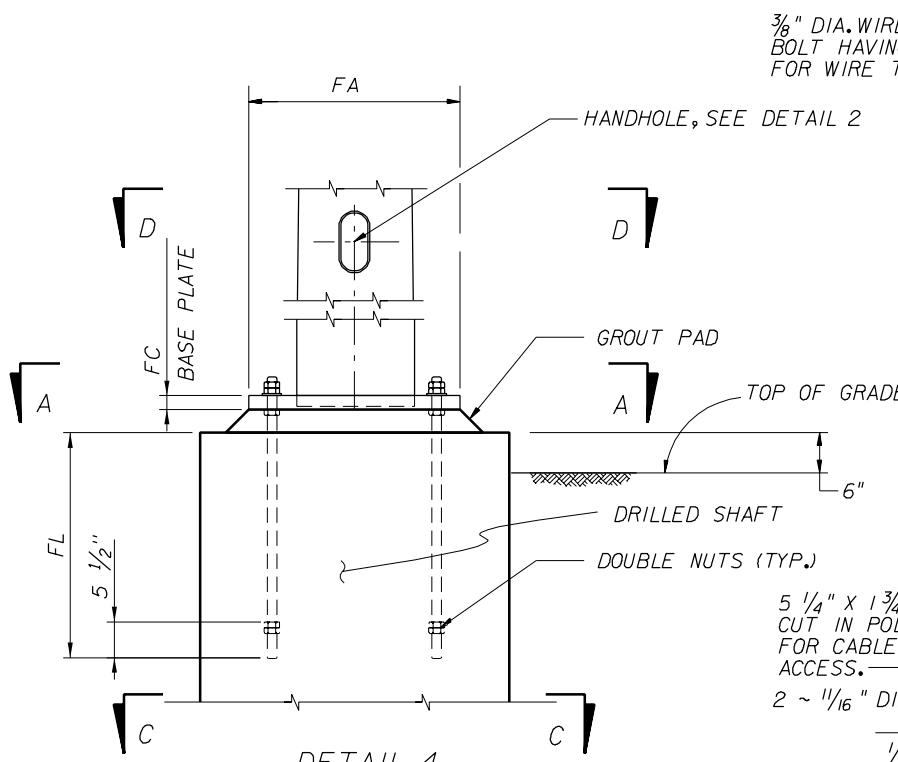


POLE DATA														
LT	LS1	LS2	SECTION A				SECTION B				SECTION C			
			LA	BA	TA	WA	LB	BB	TB	WB	LC	BC	TC	WC
TOTAL POLE HEIGHT	MINIMUM SLIPFIT SPLICE LENGTH	MINIMUM SLIPFIT SPLICE LENGTH	SECTION LENGTH	BASE OD OR WIDTH	TIP OD OR WIDTH	WALL THICKNESS	SECTION LENGTH	BASE OD OR WIDTH	TIP OD OR WIDTH	WALL THICKNESS	SECTION LENGTH	BASE OD OR WIDTH	TIP OD OR WIDTH	WALL THICKNESS
(FT)	(FT)	(FT)	(FT)	(IN)	(IN)	(IN)	(FT)	(IN)	(IN)	(IN)	(FT)	(IN)	(IN)	(IN)
65	3.00	-	28	22	18.063	0.250	40.00	19.000	13.375	0.2500	-	-	-	-
80	3.75	3.25	30	28	23.750	0.375	28.25	24.875	20.875	0.2500	28.75	21.750	17.688	0.1875

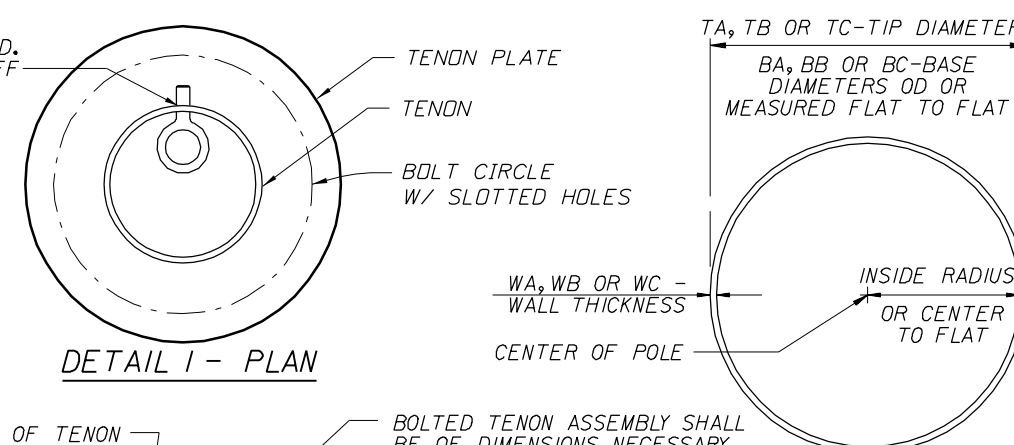
FOUNDATION AND BASE PLATE DATA											
LT	FA	FB	FC	FD	FE	FF	FG	FH	FJ	FK	FL
TOTAL POLE HEIGHT	BASE PLATE OUTSIDE DIAMETER	ANCHOR BOLT CIRCLE DIAMETER	BASE PLATE THICKNESS	NO. OF ANCHOR BOLTS	ANCHOR BOLT DIAMETER	POLE TO BASE PL. OUTSIDE WELD	POLE TO BASE PL. INSIDE WELD	DRILLED SHAFT DIAMETER	DRILLED SHAFT LENGTH	NO. OF BARS	ANCHOR BOLT EMBEDMENT
(FT)	(IN)	(IN)	(IN)	NO.	(IN)	(IN)	(IN)	(FT)	(FT)	NO.	(IN)
65	33	27.5	1.5	8	1.375	1/4	3/16	4	11	12	31
80	40	34	1.75	8	1.5	3/8	5/16	5	12	20	31

REVISIONS						ENGINEER OF RECORD:			CORE			SHEET TITLE:			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			CCTV AND MVDS STRUCTURES AND FOUNDATIONS (1 OF 2)				
						DRAWN BY	MO	3/09	5405 West Cypress Street, Suite 300 Tampa, Florida 33607 Certificate of Authorization No. 00001462 Antonio L. Ledesma, P.E.#80149			ROAD NO. COUNTY FINANCIAL PROJECT ID SR 400 HILLSBOROUGH 258415-2-52-01		PROJECT NAME: SHEET NO. I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE 17-64	
					CHECKED BY	ALL	3/09								
					DESIGNED BY	JK	3/09								
					CHECKED BY	ALL	3/09								
						APPROVED BY	ANTONIO LEDESMA								

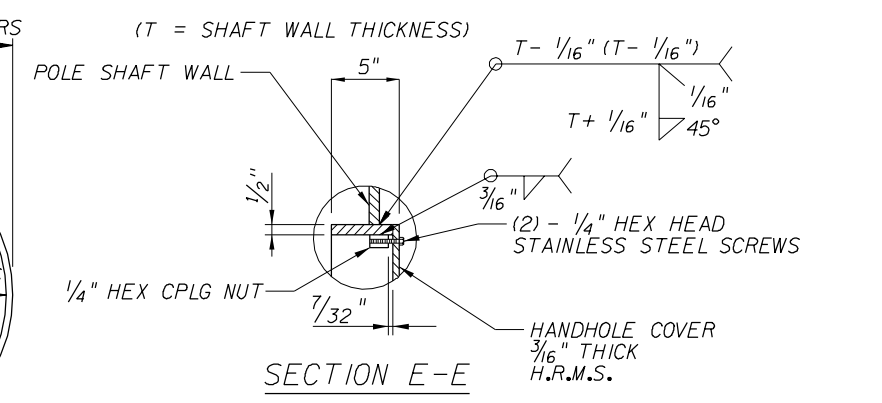
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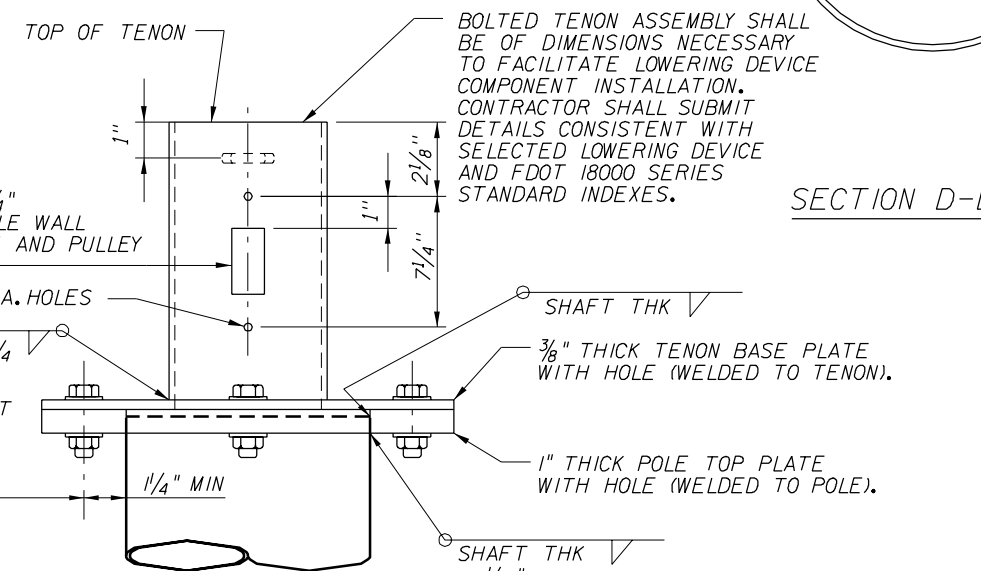
DETAIL 4



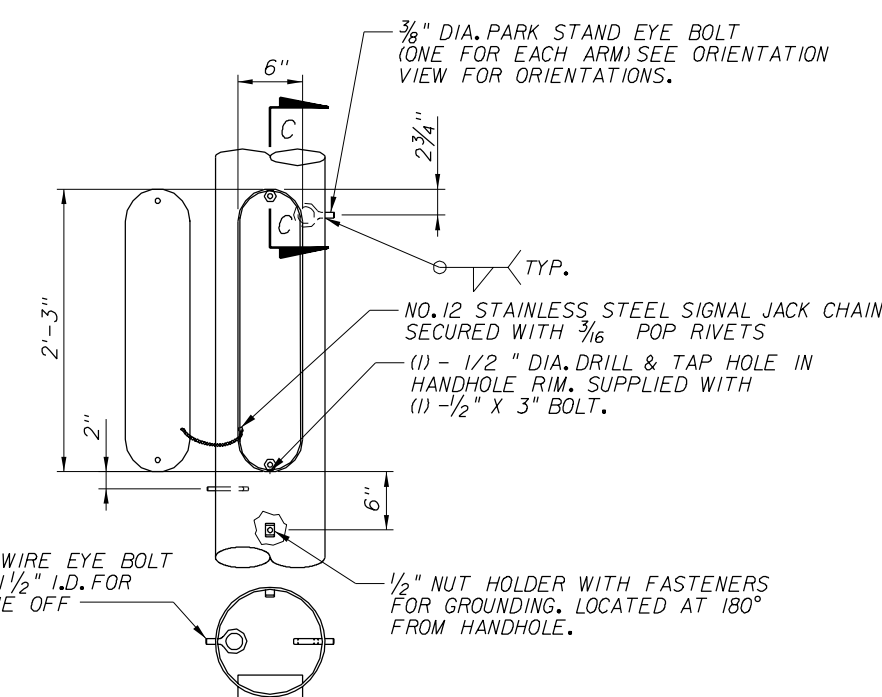
DETAIL 1 - PLAN



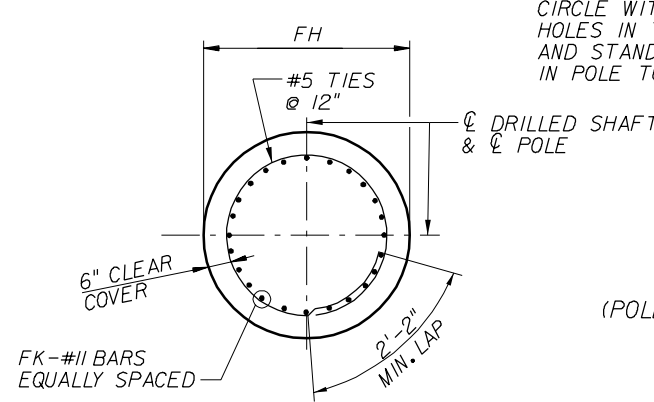
SECTION E-E



SECTION D-D



DETAIL 2 - HANDHOLE



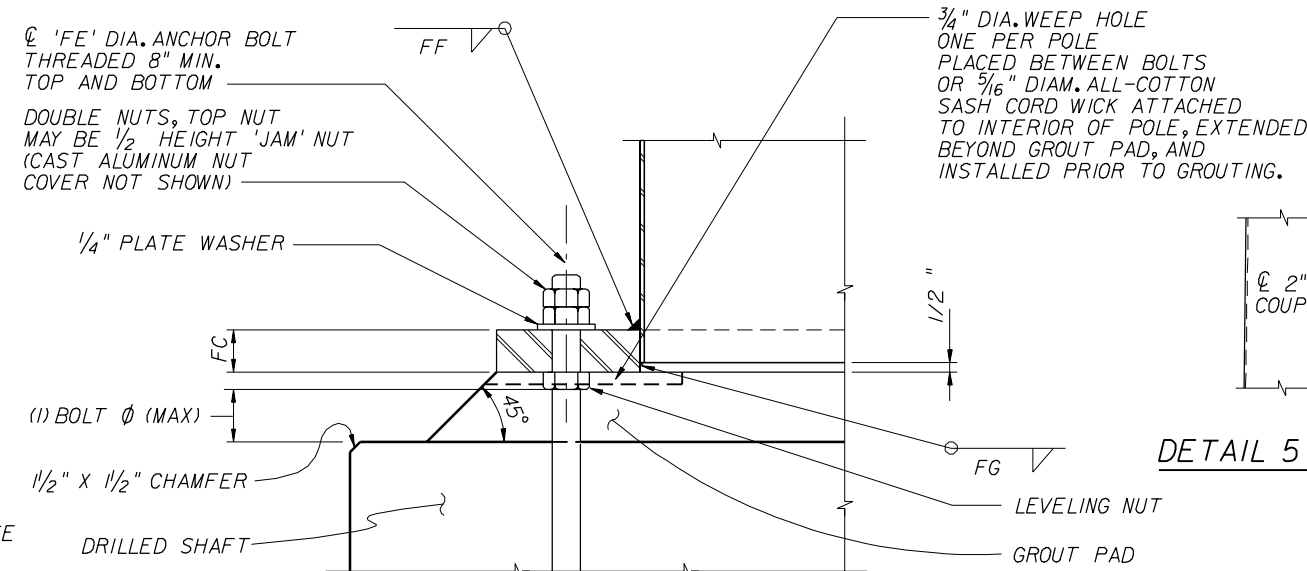
DRILLED SHAFT FOUNDATION SECTION C-C

MIN 6 ~ 3/4" Ø BOLTS W/ LOCK WASHER ON BOLT CIRCLE WITH SLOTTED HOLES IN TENON PLATE AND STANDARD HOLES IN POLE TOP PLATE.

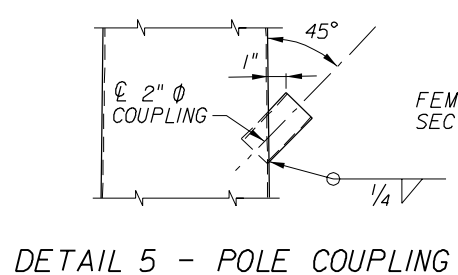
SEE POLE SCHEDULE & ORIENTATION VIEW FOR QTY. REQ'D. AND PROPER ORIENTATIONS

DETAIL 1 - POLE TENON FOR CCTV POLES

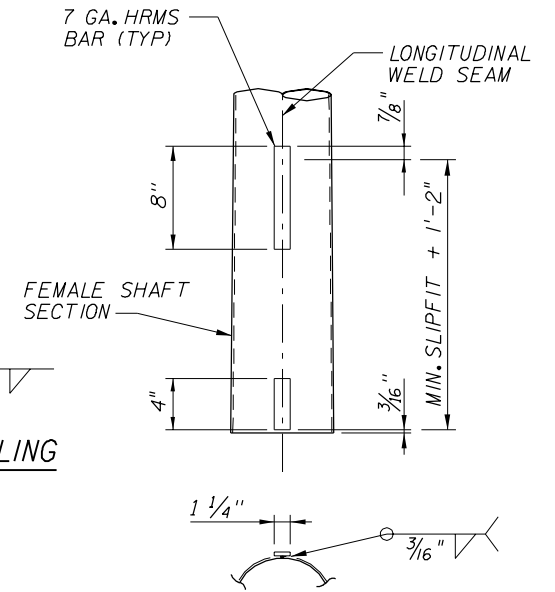
(POLES WITHOUT CCTV ONLY REQUIRE A SOLID 3/8" THICK POLE TOP PLATE)



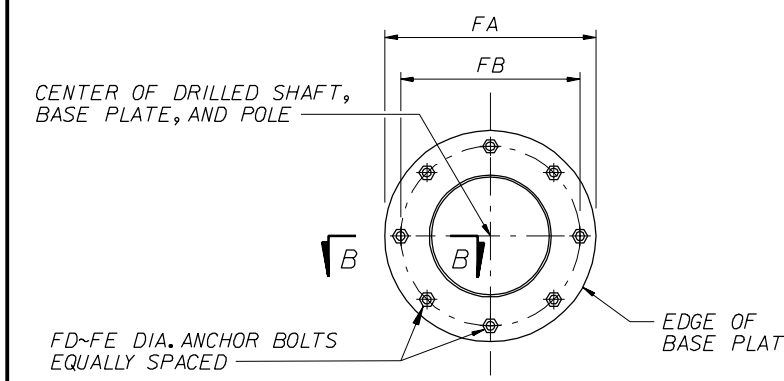
SECTION B-B



DETAIL 5 - POLE COUPLING



DETAIL 3 - WELD REINFORCEMENT














SECTION A-A

REVISIONS						CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ENGINEER OF RECORD:			CCTV AND MVDS STRUCTURES AND FOUNDATIONS (2 OF 2)	
						FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 400 HILLSBOROUGH 258415-2-52-01			PROJECT NAME:	
						DRAWN BY: MD 3/09 CHECKED BY: ALL 3/09 DESIGNED BY: JK 3/09 CHECKED BY: ALL 3/09 APPROVED BY: ANTONIO LEDESMA			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE SHEET NO. IT-65	

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LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

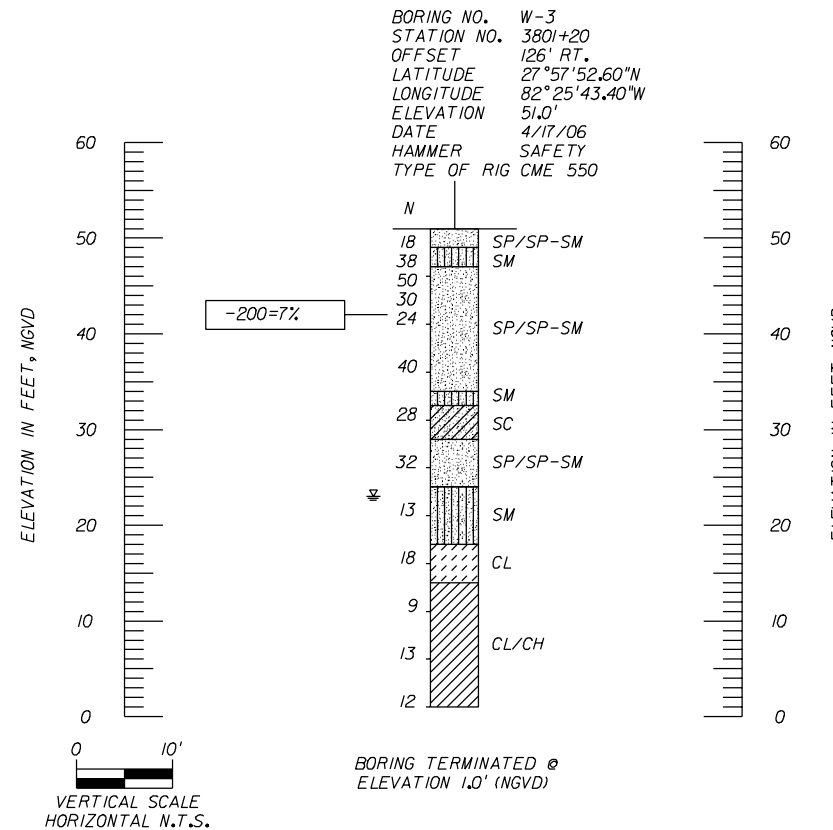
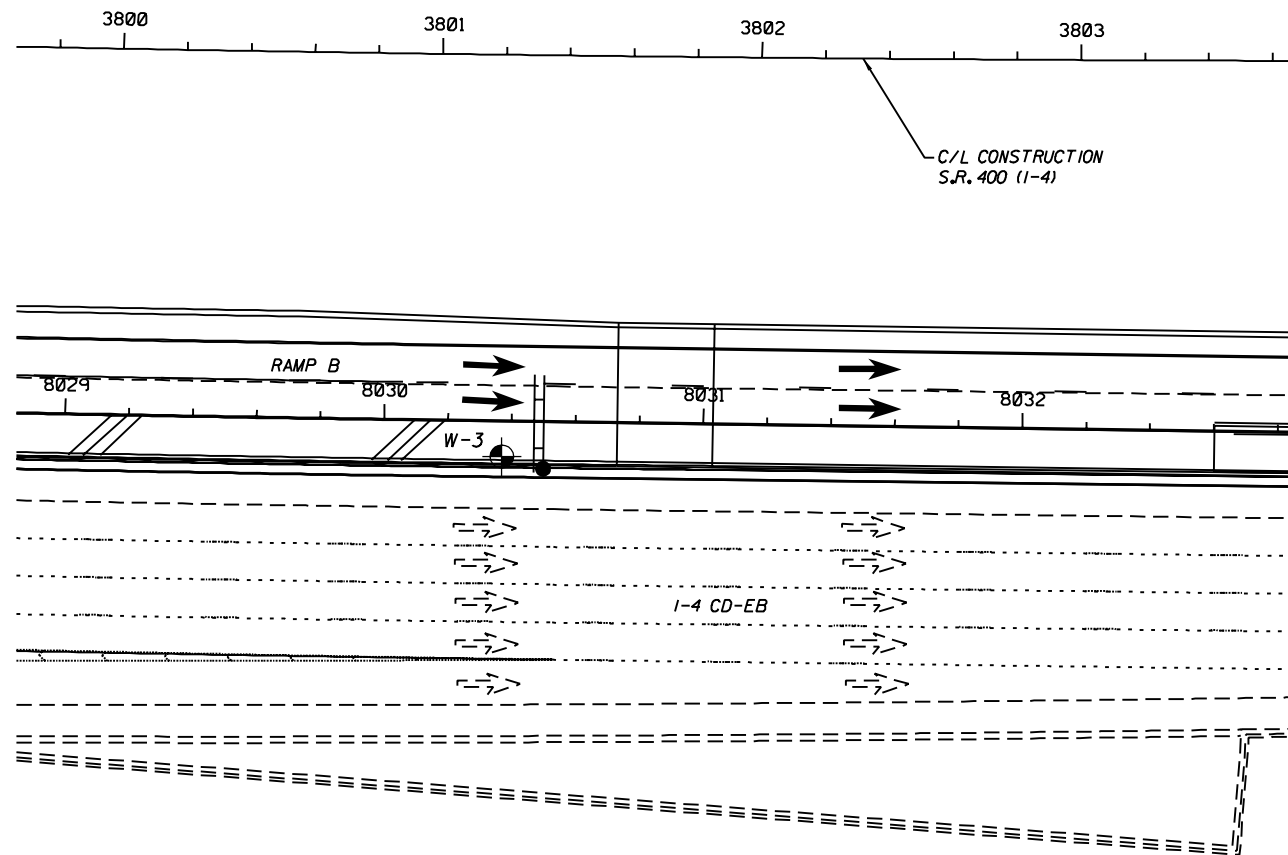
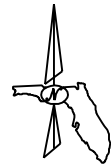
ENVIRONMENTAL CLASSIFICATION

SUPERSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
W-3	0-27	18-50	SP/SP-SM, SM, SC	120	57.6	33	0	0.295	3.39
	27-33	13	SM	110	47.6	30	0	0.333	3.00
	33-50	9-18	CL, CL/CH	120	57.6	0	1,600	1.000	1.00














NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.

REVISIONS						ENGINEER OF RECORD			CORE			STRUCTURE NO. 10S692	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		
						DRAWN BY	DJG	11/08	ROAD NO. SR 400			SHEET NO. IT-66	
						CHECKED BY	KME	11/08	COUNTY HILLSBOROUGH			PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						DESIGNED BY	KME	11/08	FINANCIAL PROJECT ID 258415-2-52-01			PROJECT NO. 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						CHECKED BY	CLK	11/08					
						APPROVED BY	CHING L. KUO, Ph.D., P.E.	11/08					

ENGINEER OF RECORD:
 PROFESSIONAL SERVICE INDUSTRIES, INC.
 5801 BENJAMIN CENTER DR., SUITE 112
 TAMPA, FL 33634 (813) 886-1075
 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684
 CHING L. KUO, Ph.D., P.E.
 FLORIDA LICENSE No. 36115

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

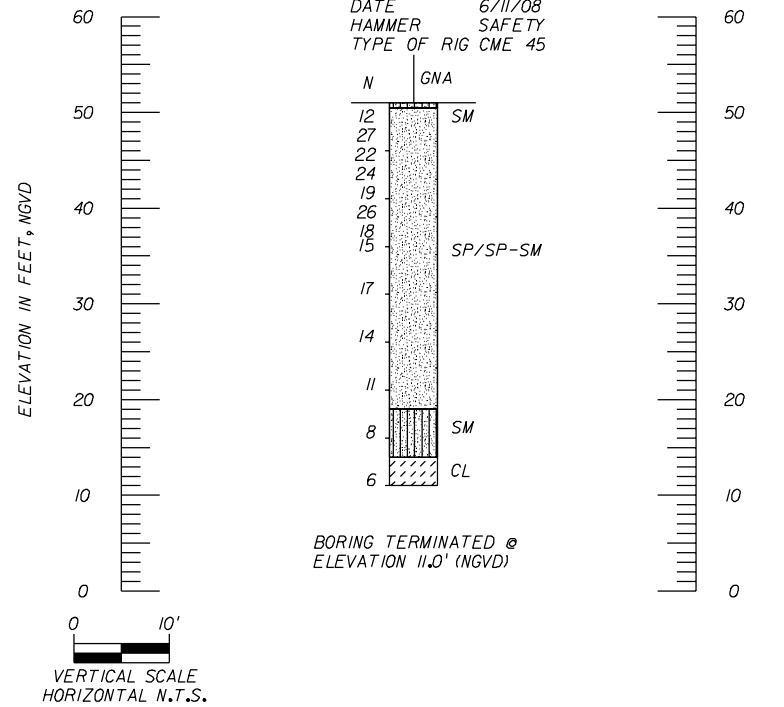
- A WITH ROOTS
- NOTES:**
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
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- 50/6" FIFTY BLOWS FOR SIX INCHES
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- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

ENVIRONMENTAL CLASSIFICATION
SUPERSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

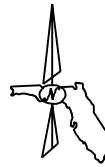
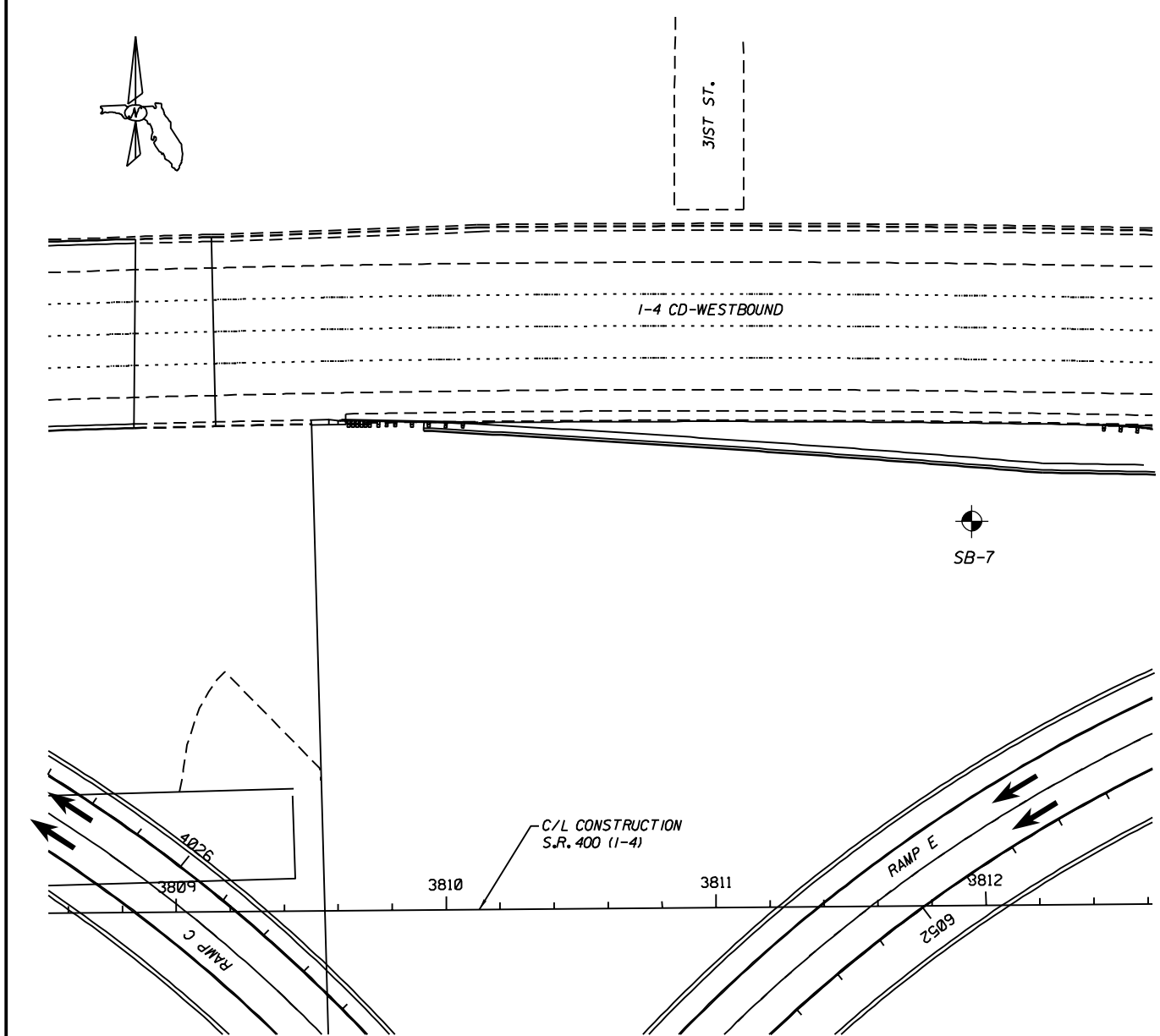
GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-7	0-37 37-40	8-26 6	SP/SP-SM, SM CL	110	47.6	30	0	0.333	3.00
				115	52.6			1.000	1.00

BORING NO. SB-7
STATION NO. 3811+96
OFFSET 142' LT.
LATITUDE 27°57'55.34"N
LONGITUDE 82°25'31.52"W
ELEVATION 51.0'
DATE 6/11/08
HAMMER SAFETY
TYPE OF RIG CME 45



NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE
DRAWN BY DJG	11/08
CHECKED BY KME	11/08
DESIGNED BY KME	11/08
CHECKED BY CLK	11/08
APPROVED BY CHING L. KUO, Ph.D., P.E.	












ENGINEER OF RECORD:
PROFESSIONAL SERVICE INDUSTRIES, INC.
5801 BENJAMIN CENTER DR., SUITE 112
TAMPA, FL 33634 (813) 886-1075
FLORIDA ENGINEERING CERTIFICATE
OF AUTHORIZATION No. 3684
CHING L. KUO, Ph.D., P.E.
FLORIDA LICENSE No. 36115

CORE		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		SHEET NO.
REPORT OF CORE BORINGS (2 OF 5)		IT-67
PROJECT NAME:		SHEET NO.
I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		IT-67

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

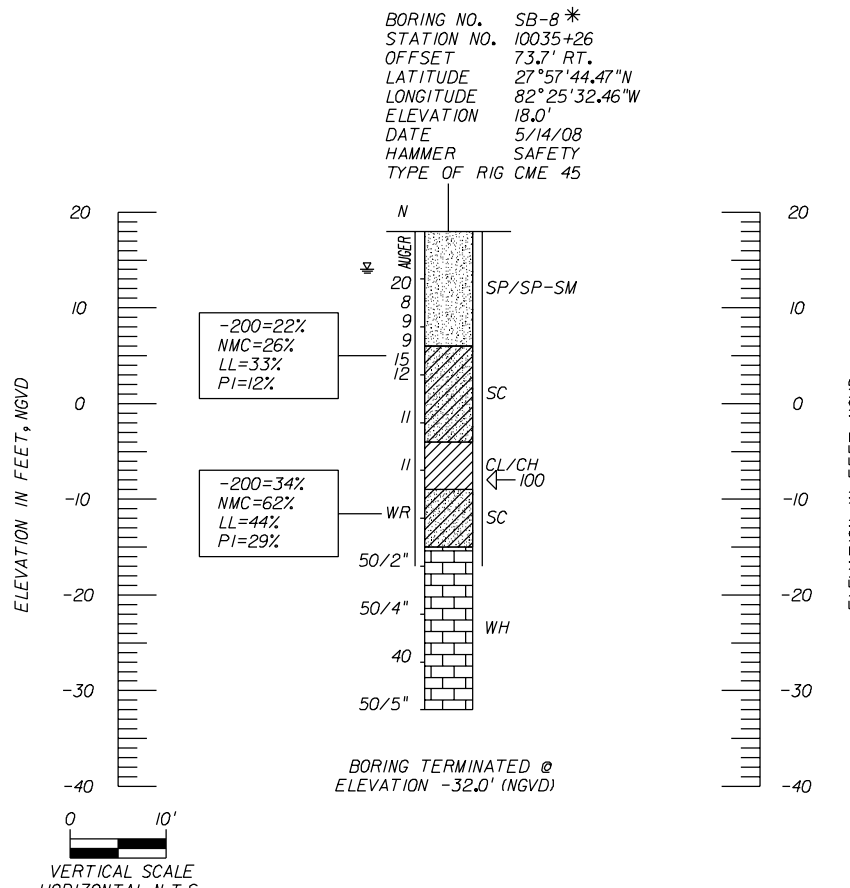
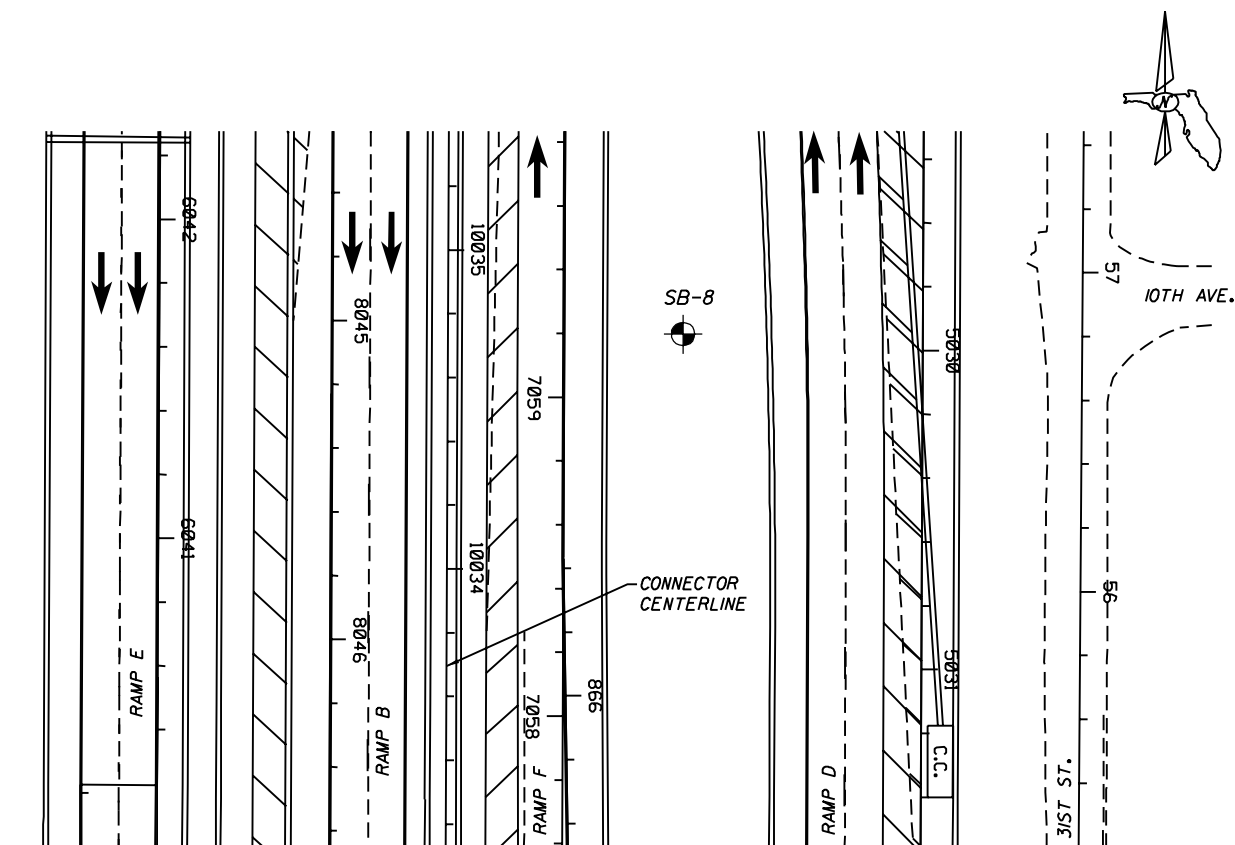
-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
-  (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
-  (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
-  (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
-  (PT), DARK BROWN TO BLACK SANDY PEAT
-  (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
-  (CL), LIGHT GRAY TO BROWN SANDY CLAY
-  (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
-  CHERT
-  (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:**
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- N NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)
- WH ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- WR ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- ← LOSS OF CIRCULATION (%)
- ← RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- ⊙ APPROXIMATE SPT BORING LOCATION

ENVIRONMENTAL CLASSIFICATION
SUPERSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-8	0-22	9-20	SP/SP-SM	110	47.6	30	0	0.333	3.00
	22-27	II	CL/CH	120	57.6	0	1,400	1.000	1.00
	27-33	WR	SC	100	37.6	26	0	0.391	2.56
	33-50	40-50/2"	LIMESTONE	135	72.6	0	10,000	1.000	1.00



* BORING REFERENCED TO THE CONNECTOR CENTERLINE.

CORE			MVDS #22/23
FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (3 OF 5)
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:
SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE
			SHEET NO. IT-68

REVISIONS				NAMES		DATES	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	DESCRIPTION

DRAWN BY	DJG	11/08	ENGINEER OF RECORD PROFESSIONAL SERVICE INDUSTRIES, INC. 5801 BENJAMIN CENTER DR., SUITE 112 TAMPA, FL 33634 (813) 886-1075 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684 CHING L. KUO, PH.D., P.E. FLORIDA LICENSE No. 36115
CHECKED BY	KME	11/08	
DESIGNED BY	KME	11/08	
CHECKED BY	CLK	11/08	
APPROVED BY	CHING L. KUO, PH.D., P.E.		

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LEGEND

- (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
- (SM), BROWN TO DARK BROWN SILTY FINE SAND
- (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
- (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
- (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
- (PT), DARK BROWN TO BLACK SANDY PEAT
- (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
- (CL), LIGHT GRAY TO BROWN SANDY CLAY
- (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
- CHERT
- (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

- A WITH ROOTS
- NOTES:
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION, (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE WH INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- ON THE LEFT SIDE OF A SOIL PROFILE WR INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
- 50/6" FIFTY BLOWS FOR SIX INCHES
- LOSS OF CIRCULATION (%)
- RECOVERY OF CIRCULATION (%)
- CASING USED
- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

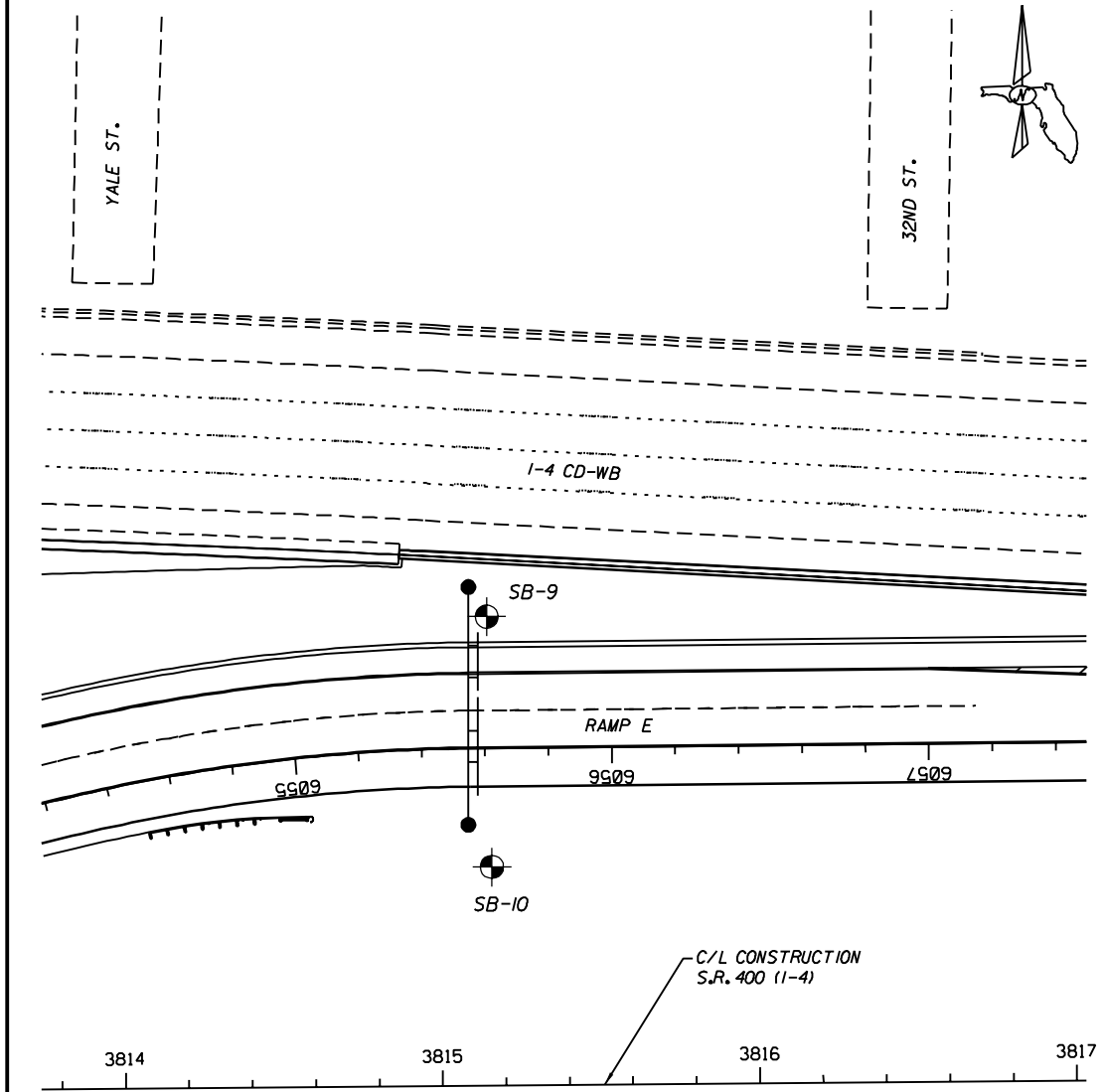
ENVIRONMENTAL CLASSIFICATION

SUPERSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

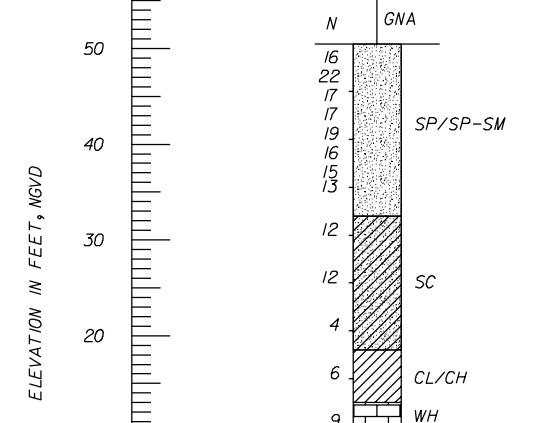
GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (Ka)	PASSIVE (Kp)
SB-9	0-27	12-22	SP/SP-SM, SC	110	47.6	30	0	0.333	3.00
	27-32	4	SC	100	37.6	28	0	0.361	2.77
	32-40	6-9	CL/CH, LIMESTONE	115	52.6	0	950	1.000	1.00
SB-10	0-18	13-30	SP/SP-SM	115	52.6	32	0	0.307	3.25
	18-22	11	CL/CH	120	57.6	0	1,400	1.000	1.00
	22-27	4	SC	100	37.6	28	0	0.361	2.77
	27-40	6-22	LIMESTONE	135	72.6	0	2,000	1.000	1.00

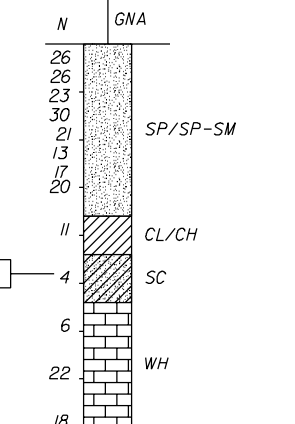


BORING NO. SB-9
 STATION NO. 3815+15
 OFFSET 148' LT.
 LATITUDE 27°57'54.83"N
 LONGITUDE 82°25'27.93"W
 ELEVATION 50.5'
 DATE 6/6/08
 HAMMER SAFETY
 TYPE OF RIG CME 45



BORING TERMINATED @ ELEVATION 10.5' (NGVD)

BORING NO. SB-10
 STATION NO. 3815+16
 OFFSET 69' LT.
 LATITUDE 27°57'55.50"N
 LONGITUDE 82°25'27.94"W
 ELEVATION 39.4'
 DATE 6/6/08
 HAMMER SAFETY
 TYPE OF RIG CME 45














BORING TERMINATED @ ELEVATION -0.6' (NGVD)

NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.

REVISIONS						DRAWN BY			ENGINEER OF RECORD			CORE			STRUCTURE NO. 10S697		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE
						DJG	11/08	CHING L. KUO, Ph.D., P.E.	11/08	CHING L. KUO, Ph.D., P.E.	11/08	FLORIDA DEPARTMENT OF TRANSPORTATION		SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (4 OF 5)
						KME	11/08	CHING L. KUO, Ph.D., P.E.	11/08	CHING L. KUO, Ph.D., P.E.	11/08	FLORIDA DEPARTMENT OF TRANSPORTATION		SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (4 OF 5)
						KME	11/08	CHING L. KUO, Ph.D., P.E.	11/08	CHING L. KUO, Ph.D., P.E.	11/08	FLORIDA DEPARTMENT OF TRANSPORTATION		SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (4 OF 5)
						CLK	11/08	CHING L. KUO, Ph.D., P.E.	11/08	CHING L. KUO, Ph.D., P.E.	11/08	FLORIDA DEPARTMENT OF TRANSPORTATION		SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (4 OF 5)
						CLK	11/08	CHING L. KUO, Ph.D., P.E.	11/08	CHING L. KUO, Ph.D., P.E.	11/08	FLORIDA DEPARTMENT OF TRANSPORTATION		SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (4 OF 5)

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

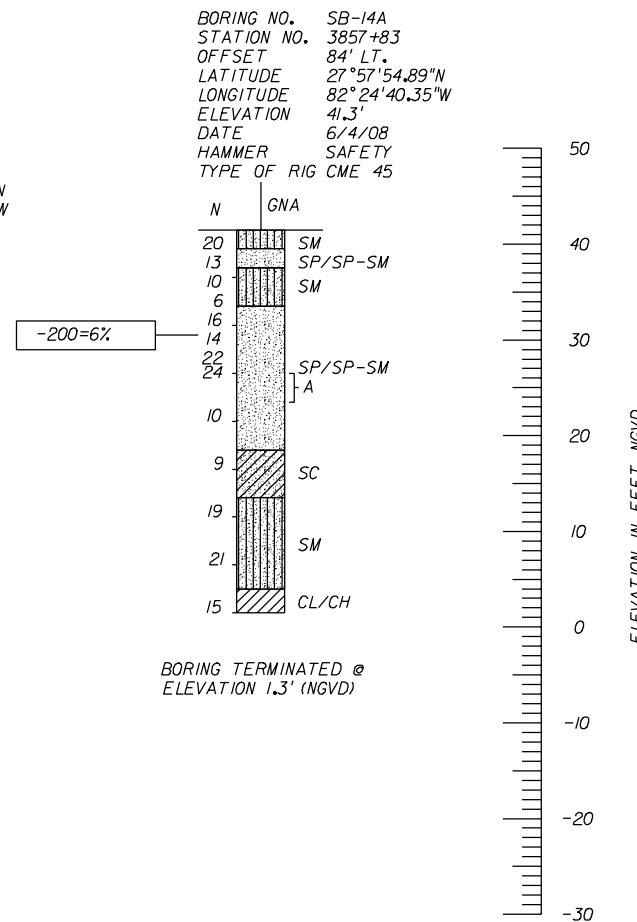
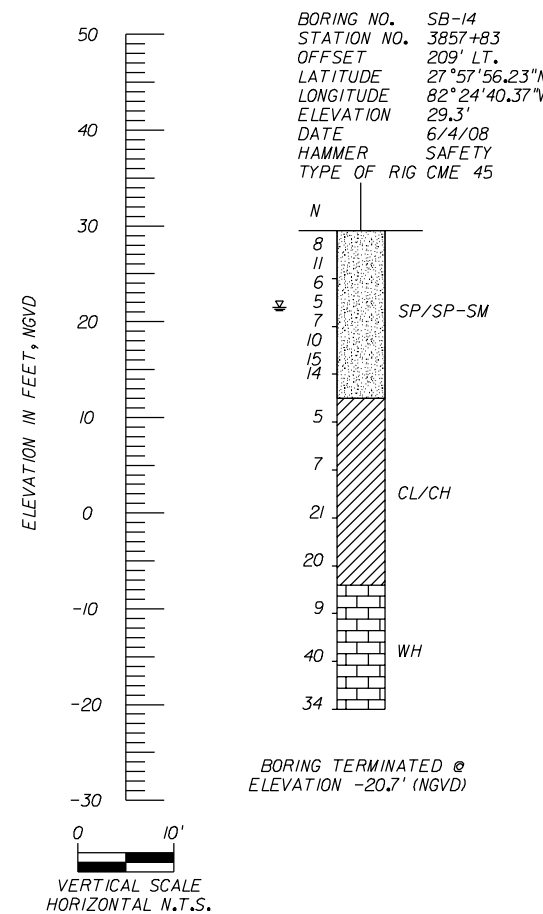
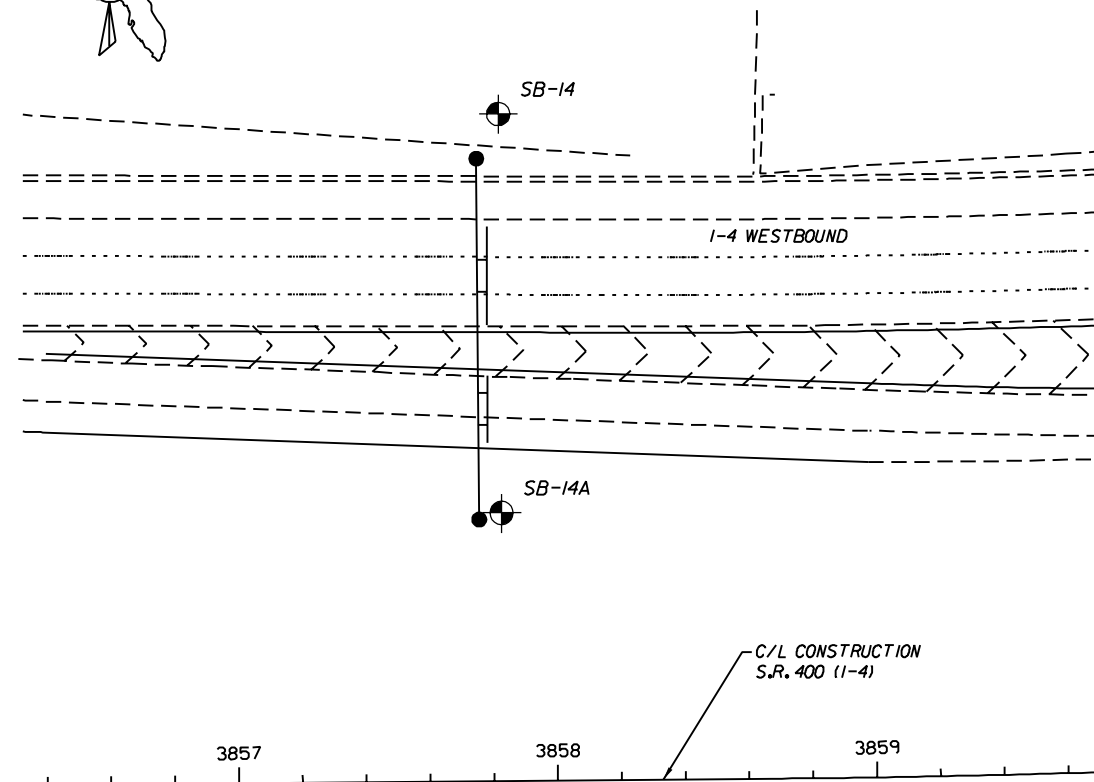
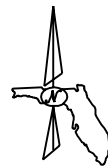
-  (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
-  (SM), BROWN TO DARK BROWN SILTY FINE SAND
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- NMC NATURAL MOISTURE CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- APPROXIMATE SPT BORING LOCATION

ENVIRONMENTAL CLASSIFICATION
 SUPERSTRUCTURE: EXTREMELY AGGRESSIVE (ASSUMED)

GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

BORING NUMBER	DEPTH (FEET)	SPT "N" RANGE	SOIL CLASSIFICATION	APPROXIMATE SOIL UNIT WEIGHT (PCF)		SOIL ANGLE OF FRICTION (DEGREES)	COHESION (PSF)	EARTH PRESSURE COEFFICIENT	
				γ SAT	γ SUBMERGED			ACTIVE (K _a)	PASSIVE (K _p)
SB-14	0-17.5	5-15	SP/SP-SM	105	42.6	29	0	0.347	2.88
	17.5-27	5-7	CL/CH	115	52.6	0	750	1,000	1.00
	27-42	9-21	CL/CH, LIMESTONE	125	62.6	0	2,000	1,000	1.00
	42-50	34-40	LIMESTONE	135	72.6	0	5,000	1,000	1.00
SB-14A	0-37.5	6-24	SM, SP/SP-SM, SC	110	47.6	30	0	0.333	3.00
	37.5-40	15	CL/CH	120	57.6	0	2,000	1,000	1.00



NOTE: ALL BORINGS ARE REFERENCED TO CENTERLINE OF CONSTRUCTION I-4 EXCEPT WHERE NOTED.

REVISIONS						CORE			STRUCTURE NO. 10S700		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET TITLE:		
						SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (5 OF 5)		
									PROJECT NAME:		SHEET NO.
									I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		IT-70

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

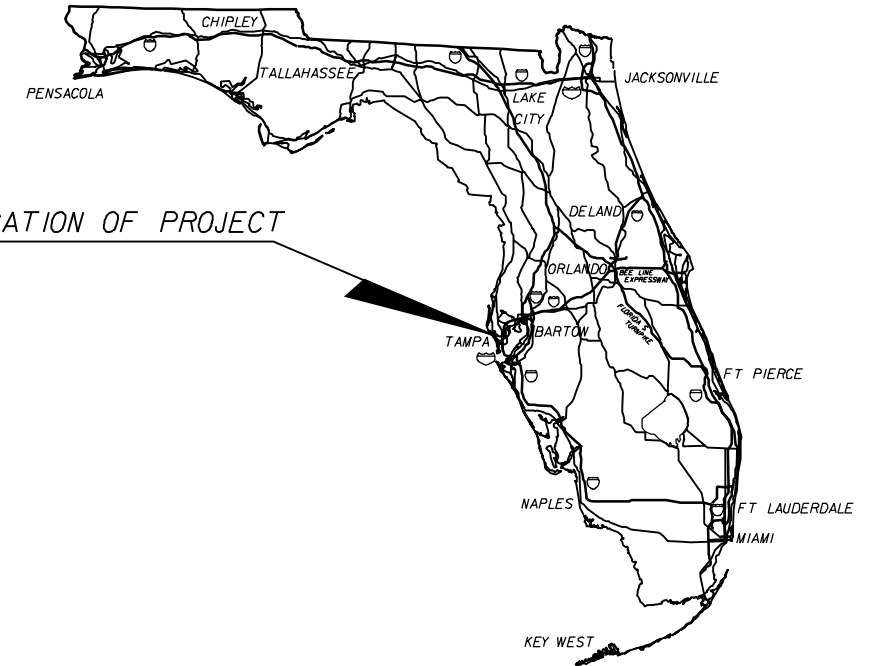
CONTRACT PLANS

FINANCIAL PROJECT ID 258415-2-52-01
CORE

(FEDERAL FUNDS)
HILLSBOROUGH COUNTY (10190)

STATE ROAD NO. 400 (I-4)
I-4 / LEE ROY SELMON EXPRESSWAY INTERCHANGE
(NORTH OF 7th AVE.)

LANDSCAPE PLANS



LOCATION OF PROJECT

INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	GENERAL NOTES
LD-3	PAY ITEM NOTES
LD-4 Thru LD-7	TABULATIONS OF QUANTITIES/ PLANT SCHEDULE
LD-8	HARDSCAPE TABULATION OF QUANTITIES
LD-9	PROJECT LAYOUT
LD-10 Thru LD-11	LANDSCAPE DETAILS
LD-12	HARDSCAPE DETAILS
LD-13	HARDSCAPE PLANS
LD-14 Thru LD-26	LANDSCAPE PLAN SHEETS
LD-27	SLEEVING PLAN
LD-28	TECHNICAL MAINTENANCE CHART

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2008,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: JANUARY 1, 2009
For Design Standards Modifications click on
"Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/>

JONATHAN H. TONER, ASLA ISA
TERRA TECTONICS DESIGN GROUP, INC.
2011 CLEVELAND ST, SUITE E
TAMPA, FL 33606
(813)258-4504

PLANS PREPARED BY:

	TERRA TECTONICS	2011 CLEVELAND ST, SUITE E TAMPA, FLORIDA 33606
	design group international, inc.	LCC 000254 813 258-4604 fx. 813 258-4504 ph.

LANDSCAPE ARCHITECTS LAND PLANNERS URBAN DESIGNERS

VENDOR NO. 0254
CONTRACT NO. C5068
CORPORATE CERTIFICATION
OF AUTHORITY NO. 0254

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

LANDSCAPE PLANS
LANDSCAPE
ARCHITECT OF RECORD: JONATHAN H. TONER, ASLA

R.L.A. NO.: FL0001123

FISCAL YEAR	SHEET NO.
10	LD-1

FDOT PROJECT MANAGER: ADAM S. PEREZ P.E.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G0-11.011, F.A.C.


LANDSCAPE GENERAL NOTES

1. Planting locations may be adjusted by the Engineer due to unforeseen on-site conditions or discrepancies. Notify the Engineer of site conditions which may require planting design adjustment for approval.
2. Contractor shall be responsible for locating and verifying the condition of underground utilities that affect planting procedures or irrigation systems installation. If any conflicts occur between proposed location of trees on the drawings and any underground utilities or subsurface structures, the Contractor shall notify the Engineer. If the Contractor damages any staked or in place utilities by his own negligence they shall be repaired at the contractor's expense.
3. Contractor shall notify the Engineer of any conditions that would prevent the healthy growth of plant species on the drawings.
4. Substitution of plant materials will not be permitted unless authorized by the Engineer. If proof is submitted that any plant specified is not obtainable, a proposal will be considered for use of the nearest equivalent size or variety with corresponding adjustments of contract prices.
5. Plant material locations and bed outlines shall be staked, flagged or painted on site by the Contractor and shall be adjusted if required to fit actual field conditions on site and approved by the Engineer prior to installation.
6. A crisp line, either straight or curving, shall separate plant beds from all sodded or seeded areas.
7. Contractor shall bear final responsibility for proper surface drainage of planted areas. Any discrepancy in the drawings, obstruction on the site, or prior work done by another party which the Contractor feel precludes establishing proper drainage shall be immediately brought to the attention of the Engineer.
8. After plant material has been installed and approved, planting beds shall be raked to an even grade to conform to pre-mulching finish grades. Planting beds and plant saucers shall then be uniformly covered with a minimum of 3-inch mulch layer.
9. In new planted areas grades shall be established by the Contractor at approximately 3-inches below curbs, sidewalks, hardscape amenities, mowing strips, and abutments to allow for mulch and sod.
10. Contractor to provide a work plan and photos or samples of all plant materials noted on plant list to the Engineer for approval prior to installation. The photos or samples are the minimum acceptable standard quality for each species. For material 30 gal. and above photos shall include scale rod and meet at least minimum specification. Engineer shall tag all material at the growing site with the Contractor.
11. Contractor shall use soil for beds with on site material where available. Soil shall be amended to have a PH level between 6.0 and 6.3 with a minimum 5% to maximum 10% positive organic content. Provide results to the Engineer with recommendations prior to planting. This material shall be used as the back fill mix for planting and top 18" of all beds. Contractor shall perform all testing.
12. All wetland plants shall be planted relative to Seasonal High Water (SHW). SHW may vary from level shown on plans, prior to planting, verify SHW in ponds. If conditions differ, notify Engineer before proceeding.
13. Landscape around billboards may be revised by the Engineer in the field for visual clearance in front of the billboards per the FDOT code. Billboards have been located based upon existing data. However, billboards may not all be known at the time of plans preparation. Some landscape may have to be adjusted after new billboards leasing are negotiated to allow for reasonable viewing of display.
14. Plant material shall be planted certain minimum distances from roadway features as indicated in the table below. Roadway features include guardrail, barrier walls, edge of pavement, MSE walls, and limited access fence. Some exceptions may occur. Refer to plans. No plant material shall be planted closer than 10' to any drainage structure, pipe or culvert.

SYMBOL	PLANT	FEATURE OFFSET	FENCE OFFSET
AG	Black Mangrove	10'	5'
JS	Southern Red Cedar	17'	20'
MC	Wax Myrtle	17'	10'
MP	Dwarf Wax Myrtle	7'	10'
PE	Slash Pine	22'	10'
QV	Live Oak	35'	15'
SB	Sand Cordgrass	7'	5'
SP	Sabal Palm	10'	10'
SR	Silver Saw Palmetto	8'	10'
TD	Bald Cypress	17'	10'

15. The following table indicates clear zones for all of the roadway right-of-ways where plantings are proposed. At no time shall any trees be located closer than the distances indicated in the "clear Zone" column to the travel lanes of the facilities indicated.

ROADWAY SECTION	TYPE	DESIGN SPEED	CLEAR ZONE
I-4- LOCAL FREEWAY (CD ROADS)	Three lanes	60	36
RAMPS B, C, E, & F	Two Lanes	35	18

REVISIONS				CORE			GENERAL NOTES	SHEET NO.		
DATE	DESCRIPTION	DATE	DESCRIPTION	 TERRA TECTONICS design group international, inc. <small>2011 CLEVELAND ST, SUITE E TAMPA, FLORIDA 33606 LLC 000294 813 258-4604 tx. 813 268-4604 ph.</small>				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		LD-2
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
				SR 400	HILLSBOROUGH	258415-2-52-01				

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LANDSCAPE PAY ITEM NOTES

A. Landscape Complete - Small Plants (580-1-1) and Large Plants (580-1-2)

1. Bed preparation and mulching - payment for this item includes the cost for debris removal, fine grading, erosion control fabric, mulch, and weed control. Bed preparation shall be provided in all planted areas and shall be performed as follows:

- a. If Contractor finds flintrock base or construction debris during excavation the contractor shall remove and dispose of it. This cost is incidental to bed preparation.
- b. The front bedline (roadside or slope side) of each planting bed shall have the first 12" minimum of vegetation mechanically stripped and removed from the site. All other existing vegetation located within a plant bed area shall receive a treatment of Round-Up (or approved equal) and an additional treatment two weeks later. After these treatments, the vegetation shall be mowed to a 1" height maximum. All clippings shall be gathered and removed from the site. The Landscape Contractor shall notify the CEI one week prior to applying any post or pre-emergent herbicides. Post emergent shall be: Round-Up, Rascal, or approved equal, applied as per manufacturer's recommended application rates and application requirements.
- c. Remove turf and/or plantings by mechanical means and provide smooth level surface for planting. Maintain existing drainage patterns. Treated turf on slopes that are 4:1 or greater shall be left in place.
- d. Prepare planting beds per FDOT Standard Specification 580 and FDOT Design Standards Index 544.
- e. All bed slopes 4:1 or steeper shall have erosion control fabric installed. Erosion control fabric shall be Aspen wood excelsior with 80% six-inch fibers or greater fiber length; webbing shall be photodegradable or biodegradable black fiber netting. (AEC Curlex I Erosion Control blanket by American Excelsior Company, or approved equal.) Any overlap of material required by manufacturer, or additional quantity required for sloped areas will be considered incidental and part of the unit price.
- f. Apply approved herbicide equal according to the manufacturer's rate and specification with limits of all mulched plantings in beds and individual mulch rings. The herbicide's active ingredients shall be suitable for control of annual and perennial broadleaf weeds, grasses and other nuisance/exotic species. Pre-emergent herbicide shall be applied after planting and before placing mulch. All applications are to be in accordance with FDOT Standard Specifications for Road and Bridge Construction, 2007.
- g. Wetland and upland/transitional nuisance species shall include those as listed on the Florida Exotic Pest Plant Council Invasive Plant Lists. This plant list is not meant to be inclusive of all nuisance species. All native and non-native vegetation determined to be a threat to the vitality of the site will be identified and removed upon the direction of the Engineer. The Contractor shall be responsible for the complete removal and off-site disposal of all nuisance/exotic species within the mangrove plant installation area.
- h. Mulch beds with a 3" layer of mulch. Mulch shall be made entirely from the above ground portion wood and bark of the Melaleuca quinquenervia Tree. It shall not contain more than 10% (by volume) bark and shall not contain roots or root pieces. Shreds and chips shall not be larger than 6/64 inch diameter and 1-1/2 inch in length. Mulch shall be free of weed seeds, soil and on other organic or inorganic material. Prior to its final processing, mulch will have been inspected and certified by the Florida Department of Agriculture and Consumer Services, Division of Plant Industry, as free of burrowing nematodes. Mulch shall be inspected and certified by the Florida Department of Agriculture and Consumer Services Division of Plant Industry. All proofs of delivery shall bear the official State of Florida stamp of inspection and verification. The 3" mulch layer shall be continuously maintained through the end of the 365 day establishment period. Any additional mulch required for sloped areas will be considered incidental and part of the contract price.

2. During the one year or 365 day establishment period conduct quarterly nuisance eradication events, for a total of four events, within the limits of the Temporary Construction Easement that requires plant installation. The first event shall occur no later than 90 days after the start of the establishment period.

a. The Contractor shall conduct a field review of the areas of eradication prior to the start of the removal process. Within one week after the eradication of removal event, the Contractor shall perform a follow up visit with the Engineer to ensure that all designated areas of removal have been addressed. If process is unsatisfactory or the area requires additional eradication based upon the Engineer's review, the Contractor shall remove the nuisance species within one week of the follow up meeting.

b. Eradication shall be defined as removing at least 95% of the nuisance species within the planted area. The 95% removal will be based on the visual inspection of the engineer.

3. Mycorrhizal inoculant shall be applied per manufacturer's directions to all proposed plants. The inoculant shall be a "cocktail" that shall include at a minimum of the following mycorrhizal:

- Endomycorrhizal Fungus
- Ectomycorrhizal Fungus
- Fulvic Acid
- Trichoderma
- Phosphate solubilizing, nitrogen fixing and growth promoting bacteria
- Humic acid derived from Leonardite
- Sea kelp extract (Ascophyllum nodosum)
- Yucca plant extract (Yucca schidigera)
- Water holding polymer (cross linked acrylamide and potassium acrylate)
- Particle size: 0.8 mm to 2.0 mm
- Percent soluble: less than 0.05%
- Absorption rate: 300-400 times in distilled water.
- Mix product with backfill in the first 8-10 inches of planting hole adjacent to the root ball for larger plants, and the first 4-6 inches for smaller plants making sure that the product is in contact with the root ball. Do not put product on top or in bottom of hole. Contractor shall provide written specification mix. Diehard, 1-800-777-7645, or approved equal.

4. All excavations, planting soil mix, saucer, fertilizer, removal of excavation material and work site cleanup are to be included in the per plant price. Any other requirements necessary for complete acceptance of planting area shall be considered incidental to the pay item.

5. If pond plantings have established a successful full mix without cattail or nuisance vegetation then this will be considered acceptable.

6. Project scope equals 130,000 sq-ft of mulched beds that extend beyond the rootball and 109,000 sq-ft of pond planting, to be verified by the Contractor.

7. Water for plant establish shall be provided per FDOT specification and shall be applied by hand. The Contractor may, at his own expense, design and install a temporary low volume/drip irrigation system to aid in plant establishment. The Contractor shall provide shop drawings for approval of said system. The temporary system will be removed or abandoned at the end of the 365-day establishment period after final acceptance. Irrigation sleeves (6" PVC) will be installed by Contractor and be made available for the Contractors use for the routing of irrigation water distribution lines. Refer to the landscape plans for sleeving locations.

REVISIONS				CORE			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET NO. LD-3
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 400	HILLSBOROUGH	258415-2-52-01		



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LANDSCAPE TABULATION OF QUANTITIES

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET	
		DESCRIPTION							LD-14		LD-15		LD-16		LD-17		PLAN	FINAL
		PLAN	FINAL						PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
555-1-2		DIRECTIONAL BORE 6" TO < 12"						LF										
580-1-1	CF	CANNA flaccida	Yellow Canna	1 GAL., 18" spr.	3' ht X 3' spr	30" o.c.		EA										
	JE	JUNCUS effusus	Soft Rush	bare root	3' ht X 3' spr	36" o.c.		EA										
	LC	LOBELIA cardinalis	Cardinal Flower	1 GAL., 18" spr.	3' ht 18" spr	30" o.c.		EA										
	MC	MYRICA cerifera	Wax Myrtle	7 GAL., 36" ht. X 24" spr. Full ot Grade	15'-25' ht X 20'-25' spr	36" o.c.		EA										
	NO	NYMPHAEA odorata	Fragrant Waterlily	bare root	1' ht X 5' spr	36" o.c.		EA										
	HP	HAMELIA patens	Firebush	3 GAL., 24" ht. X 18" spr.	6'-12' ht X 5' - 8' spr	36" o.c.		EA			199		240		295		734	
	PC	PONTEDERIA cordata	Pickereel Weed	bare root	2' ht X 2' spr	36" o.c.		EA										
	SB	SPARTINA bakeri	Sand Cord Grass	bare root	5' ht X 3' spr	36" o.c.		EA										
	SC	SCIRPUS californicus	Giant Bulrush	bare root	6'-8' ht X 3' spr	36" o.c.		EA										
	SL	SAGITTARIA lancifolia	Lance-leaf Arrowhead	bare root	3' ht X 3' spr	36" o.c.		EA										
	SR	SERENOA repens	Saw palmetto	7 GAL., 20" ht. X 20" spr.	8' ht X 8' spr	4' o.c.		EA	202		416		1778		3541		5937	
	TF	TRIPSACUM floridana	Florida Gama Grass	1 GAL., 18" ht. X 12" spr.	2' ht X 2' spr	36" o.c.		EA	186				1016		523		1725	
	TG	THALIA geniculata	Alligator Flag	bare root	8'-10' ht X 3' spr	36" o.c.		EA										
580-1-2	JS	Juniperus Silicola	Southern Red Cedar	30 GAL., 8-10' ht. X 4' spr., 3" cal. Full to Grade	30'-45' ht X 20'-30' spr	10'-15' o.c.		EA					14				14	
	PED	PINUS elliottii 'Densa'	South Florida Slash Pine	30 GAL., 8-10' ht. X 4' spr., 3" cal.	75'-100' ht X 35'-50' spr	8'-15' o.c.		EA			57				114		171	
	QV	QUERCUS virginiana 'Highrise'	Highrise Live Oak	65 GAL., 14-16' ht. X 5-6' spr., 4" cal.	60'-80' ht X 60'-120' spr	15' o.c.		EA					44		21		65	
	SP	SABAL palmetto	Cabbage Palm	15' - 24' ct. staggered ht., boots on.	50' ht	10' o.c.		EA	64				195		238		497	
	TD	TAXODIUM distichum 'Autumn Gold'	'Autumn Gold' Bald Cypress	45 GAL., 12-14' ht. x 5' spr., 3" cal., Full to Grade	60'-80' ht X 25'-35' spr	12' o.c.		EA					23				23	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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 JONATHAN H. TONER, ASLA FLO001123

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

TABULATION OF QUANTITIES/ PLANT SCHEDULE (1)

SHEET NO.
LD-4

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LANDSCAPE TABULATION OF QUANTITIES

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		
		DESCRIPTION							LD-18		LD-19		LD-20		LD-21		PLAN	FINAL	
									PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
555-1-2		DIRECTIONAL BORE 6" TO < 12"						LF											
580-1-1	CF	CANNA flaccida	Yellow Canna	1 GAL., 18" spr.	3' ht X 3' spr	30" o.c.		EA											
	JE	JUNCUS effusus	Soft Rush	bare root	3' ht X 3' spr	36" o.c.		EA											
	LC	LOBELIA cardinalis	Cardinal Flower	1 GAL., 18" spr.	3' ht 18" spr	30" o.c.		EA											
	MC	MYRICA cerifera	Wax Myrtle	7 GAL., 36" ht. X 24" spr. Full ot Grade	15'-25' ht X 20'-25' spr	36" o.c.		EA		46							46		
	NO	NYMPHAEA odorata	Fragrant Waterlily	bare root	1' ht X 5' spr	36" o.c.		EA											
	HP	HAMELIA patens	Firebush	3 GAL., 24" ht. X 18" spr.	6'-12' ht X 5' - 8' spr	36" o.c.		EA											
	PC	PONTEDERIA cordata	Pickeral Weed	bare root	2' ht X 2' spr	36" o.c.		EA											
	SB	SPARTINA bakeri	Sand Cord Grass	bare root	5' ht X 3' spr	36" o.c.		EA			19						19		
	SC	SCIRPUS californicus	Giant Bulrush	bare root	6'-8' ht X 3' spr	36" o.c.		EA											
	SL	SAGITTARIA lancifolia	Lance-leaf Arrowhead	bare root	3' ht X 3' spr	36" o.c.		EA											
	SR	SERENOA repens	Saw palmetto	7 GAL., 20" ht. X 20" spr.	8' ht X 8' spr	4' o.c.		EA		447		85					532		
	TF	TRIPSACUM floridana	Florida Gama Grass	1 GAL., 18" ht. X 12" spr.	2' ht X 2' spr	36" o.c.		EA				72					72		
	TG	THALIA geniculata	Alligator Flag	bare root	8'-10' ht X 3' spr	36" o.c.		EA											
580-1-2	JS	Juniperus Silicola	Southern Red Cedar	30 GAL., 8-10' ht. X 4' spr., 3" cal. Full to Grade	30'-45' ht X 20'-30' spr	10'-15' o.c.		EA											
	PED	PINUS elliottii 'Densa'	South Florida Slash Pine	30 GAL., 8-10' ht. X 4' spr., 3" cal.	75'-100' ht X 35'-50" spr	8'-15' o.c.		EA											
	QV	QUERCUS virginiana 'Highrise'	Highrise Live Oak	65 GAL., 14-16' ht. X 5-6' spr., 4" cal.	60'-80' ht X 60'-120' spr	15' o.c.		EA		9							9		
	SP	SABAL palmetto	Cabbage Palm	15' - 24' ct. staggered ht., boots on.	50' ht	10' o.c.		EA		19		64		34			117		
	TD	TAXODIUM distichum 'Autumn Gold'	'Autumn Gold' Bald Cypress	45 GAL., 12-14' ht. x 5' spr., 3" cal., Full to Grade	60'-80' ht X 25'-35' spr	12' o.c.		EA		19		58		46			123		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

TABULATION OF QUANTITIES PLANT SCHEDULE (2)

SHEET NO.
LD-5

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LANDSCAPE TABULATION OF QUANTITIES

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET	
		DESCRIPTION							LD-22		LD-23		LD-24		LD-25		PLAN	FINAL
									PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
555-1-2		DIRECTIONAL BORE 6" TO < 12"						LF										
580-1-1	CF	CANNA flaccida	Yellow Canna	1 GAL., 18" spr.	3' ht X 3' spr	30" o.c.		EA			66		143		154		363	
	JE	JUNCUS effusus	Soft Rush	bare root	3' ht X 3' spr	36" o.c.		EA			151		354		336		841	
	LC	LOBELIA cardinalis	Cardinal Flower	1 GAL., 18" spr.	3' ht 18" spr	30" o.c.		EA			19		240		191		450	
	MC	MYRICA cerifera	Wax Myrtle	7 GAL., 36" ht. X 24" spr. Full ot Grade	15'-25' ht X 20'-25' spr	36" o.c.		EA										
	NO	NYMPHAEA odorata	Fragrant Waterlily	bare root	1' ht X 5' spr	36" o.c.		EA			50		116		117		283	
	HP	HAMELIA patens	Firebush	3 GAL., 24" ht. X 18" spr.	6'-12' ht X 5' - 8' spr	36" o.c.		EA										
	PC	PONTEDERIA cordata	Pickereel Weed	bare root	2' ht X 2' spr	36" o.c.		EA			569		1122		654		2345	
	SB	SPARTINA bakeri	Sand Cord Grass	bare root	5' ht X 3' spr	36" o.c.		EA			157		460		446		1063	
	SC	SCIRPUS californicus	Giant Bulrush	bare root	6'-8' ht X 3' spr	36" o.c.		EA			703		1212		279		2194	
	SL	SAGITTARIA lancifolia	Lance-leaf Arrowhead	bare root	3' ht X 3' spr	36" o.c.		EA			331		932		414		1677	
	SR	SERENOA repens	Saw palmetto	7 GAL., 20" ht. X 20" spr.	8' ht X 8' spr	4' o.c.		EA	118								118	
	TF	TRIPSACUM floridana	Florida Gama Grass	1 GAL., 18" ht. X 12" spr.	2' ht X 2' spr	36" o.c.		EA	79								79	
	TG	THALIA geniculata	Alligator Flag	bare root	8'-10' ht X 3' spr	36" o.c.		EA			660		973		676		2309	
580-1-2	JS	Juniperous Silicola	Southern Red Cedar	30 GAL., 8-10' ht. X 4' spr., 3" cal. Full to Grade	30'-45' ht X 20'-30' spr	10'-15' o.c.		EA										
	PED	PINUS elliottii 'Densa'	South Florida Slash Pine	30 GAL., 8-10' ht. X 4' spr., 3" cal.	75'-100' ht X 35'-50" spr	8'-15' o.c.		EA	18								18	
	QV	QUERCUS virginiana 'Highrise'	Highrise Live Oak	65 GAL., 14-16' ht. X 5-6' spr., 4" cal.	60'-80' ht X 60'-120' spr	15' o.c.		EA										
	SP	SABAL palmetto	Cabbage Palm	15' - 24' ct. staggered ht., boots on.	50' ht	10' o.c.		EA	21								21	
	TD	TAXODIUM distichum 'Autumn Gold'	'Autumn Gold' Bald Cypress	45 GAL., 12-14' ht. x 5' spr., 3" cal., Full to Grade	60'-80' ht X 25'-35' spr	12' o.c.		EA	21								21	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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 JONATHAN H. TONER, ASLA FLO001123

2011 CLEVELAND ST, SUITE E
 TAMPA, FLORIDA 33606
 LCC 000294
 813 258-4604 tx.
 813 258-4604 ph.

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

TABULATION OF QUANTITIES PLANT SCHEDULE (3)

SHEET NO.
LD-6

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LANDSCAPE TABULATION OF QUANTITIES

LANDSCAPE TABULATION OF QUANTITIES

PAY ITEM NO.	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	UNIT	SHEET NUMBERS								TOTAL THIS SHEET		GRAND TOTAL	
		DESCRIPTION							LD-26		LD-27		PLAN		FINAL		PLAN	FINAL	PLAN	FINAL
		PLAN	FINAL						PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
555-1-2		DIRECTIONAL BORE 6" TO < 12"						LF			150					150		150		
580-1-1	CF	CANNA flaccida	Yellow Canna	1 GAL., 18" spr.	3' ht X 3' spr	30" o.c.		EA	66							66		429		
	JE	JUNCUS effusus	Soft Rush	bare root	3' ht X 3' spr	36" o.c.		EA	232							232		1073		
	LC	LOBELIA cardinalis	Cardinal Flower	1 GAL., 18" spr.	3' ht 18" spr	30" o.c.		EA	15							15		465		
	MC	MYRICA cerifera	Wax Myrtle	7 GAL., 36" ht. X 24" spr. Full ot Grade	15'-25' ht X 20'-25' spr	36" o.c.		EA										46		
	NO	NYMPHAEA odorata	Fragrant Waterlily	bare root	1' ht X 5' spr	36" o.c.		EA	86							86		369		
	HP	HAMELIA patens	Firebush	3 GAL., 24" ht. X 18" spr.	6'-12' ht X 5' - 8' spr	36" o.c.		EA										734		
	PC	PONTEDERIA cordata	Pickereel Weed	bare root	2' ht X 2' spr	36" o.c.		EA	432							432		2777		
	SB	SPARTINA bakeri	Sand Cord Grass	bare root	5' ht X 3' spr	36" o.c.		EA	174							174		1256		
	SC	SCIRPUS californicus	Giant Bulrush	bare root	6'-8' ht X 3' spr	36" o.c.		EA	230							230		2424		
	SL	SAGITTARIA lancifolia	Lance-leaf Arrowhead	bare root	3' ht X 3' spr	36" o.c.		EA	70							70		1747		
	SR	SERENOA repens	Saw palmetto	7 GAL., 20" ht. X 20" spr.	8' ht X 8' spr	4' o.c.		EA										6587		
	TF	TRIPSACUM floridana	Florida Gama Grass	1 GAL., 18" ht. X 12" spr.	2' ht X 2' spr	36" o.c.		EA										1876		
	TG	THALIA geniculata	Alligator Flag	bare root	8'-10' ht X 3' spr	36" o.c.		EA	443							443		2752		
580-1-2	JS	Juniperous Silicola	Southern Red Cedar	30 GAL., 8-10' ht. X 4' spr., 3" cal. Full to Grade	30'-45' ht X 20'-30' spr	10'-15' o.c.		EA										14		
	PED	PINUS elliottii 'Densa'	South Florida Slash Pine	30 GAL., 8-10' ht. X 4' spr., 3" cal.	75'-100' ht X 35'-50" spr	8'-15' o.c.		EA										189		
	QV	QUERCUS virginiana 'Highrise'	Highrise Live Oak	65 GAL., 14-16' ht. X 5-6' spr., 4" cal.	60'-80' ht X 60'-120' spr	15' o.c.		EA										74		
	SP	SABAL palmetto	Cabbage Palm	15' - 24' ct. staggered ht., boots on.	50' ht	10' o.c.		EA										656		
	TD	TAXODIUM distichum 'Autumn Gold'	'Autumn Gold' Bald Cypress	45 GAL., 12-14' ht. x 5' spr., 3" cal., Full to Grade	60'-80' ht X 25'-35' spr	12' o.c.		EA										169		

REVISIONS				 TERRA TECTONICS design group international, inc. <small>LANDSCAPE ARCHITECTS LAND PLANNERS URBAN DESIGNERS</small> JONATHAN H. TONER, ASLA FLO001123	CORE			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	TABULATION OF QUANTITIES PLANT SCHEDULE (A)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			LD-7
					SR 400	HILLSBOROUGH	258415-2-52-01			

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HARDSCAPE TABULATION OF QUANTITIES

FORM 625-000-02
ROADWAY DESIGN 01-2000

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS		TOTAL THIS SHEET		GRAND TOTAL	
			LD-13		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL				
550-10-929	FENCING, SPECIAL, 5.1' to 6.0', SPECIAL FEATURES	LF	24		24		24	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



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813 268-4604 ph.

CORE

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

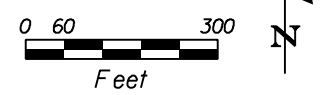
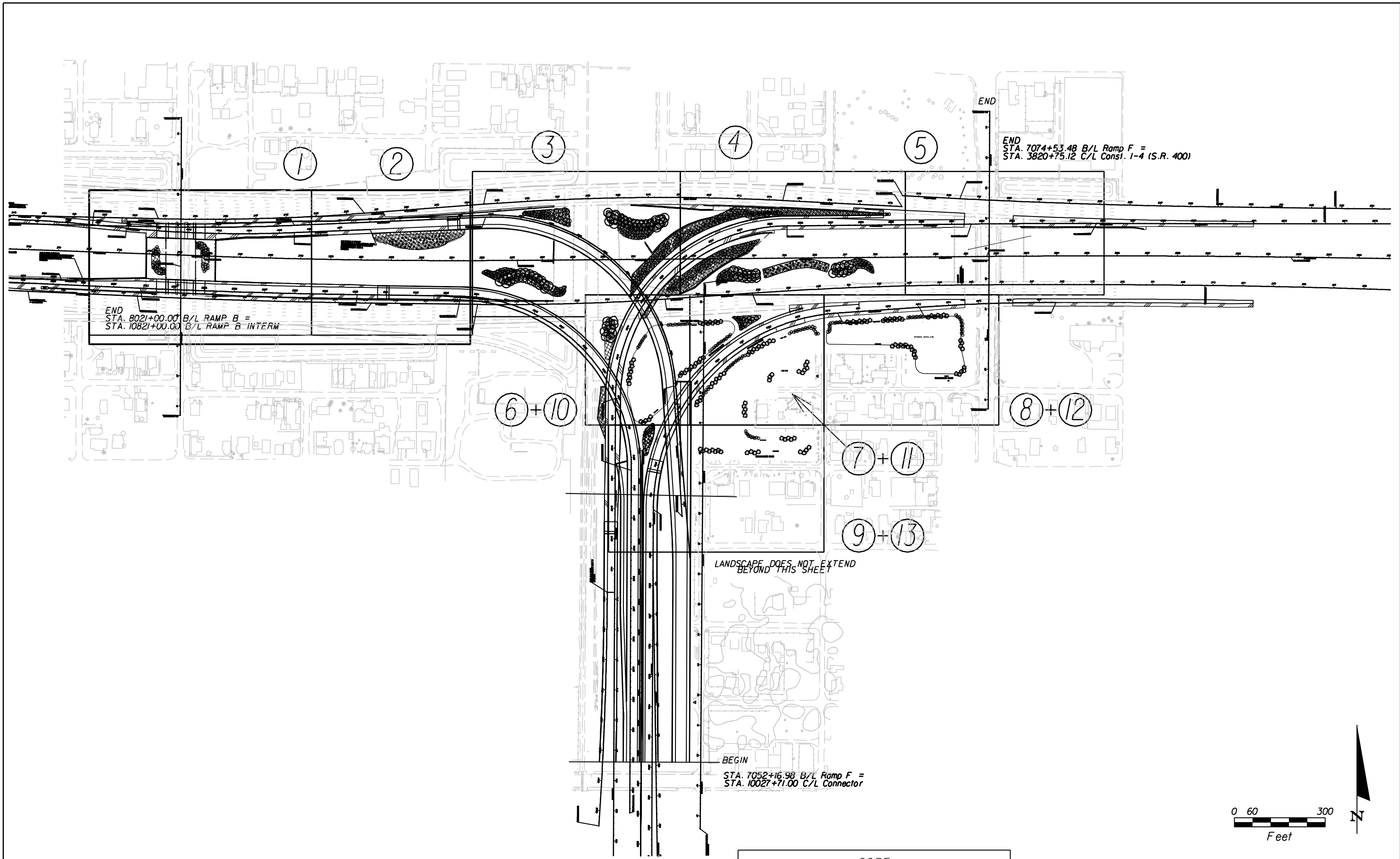
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

**HARDSCAPE TABULATION
OF QUANTITIES**

SHEET
NO.

LD-8

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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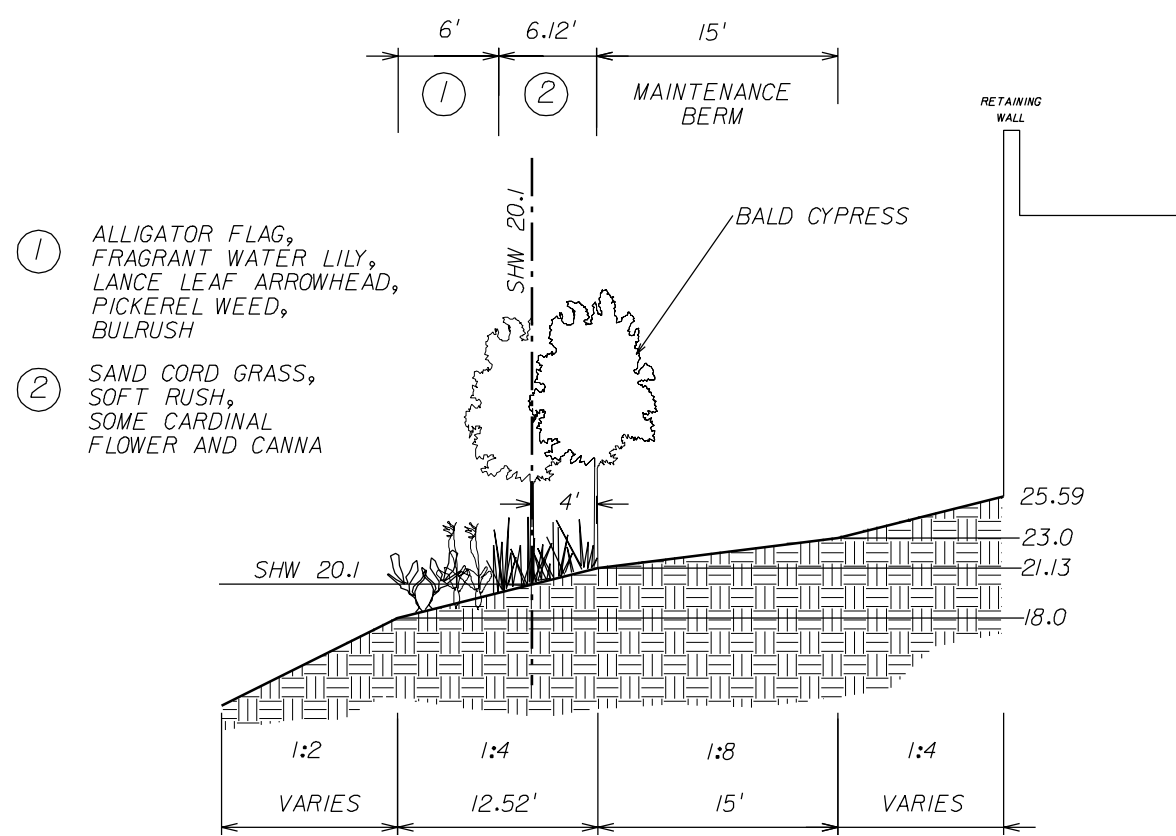
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

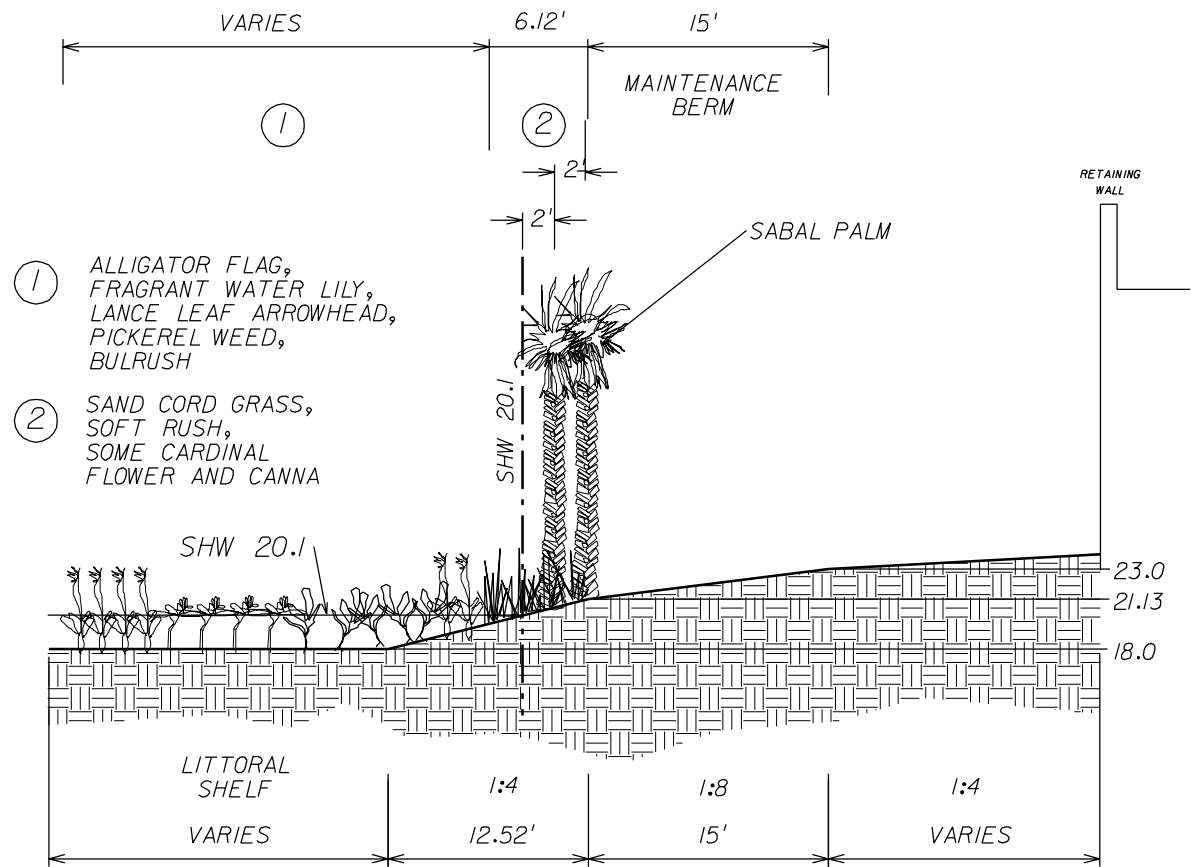
PROJECT LAYOUT

SHEET NO.
LD-9

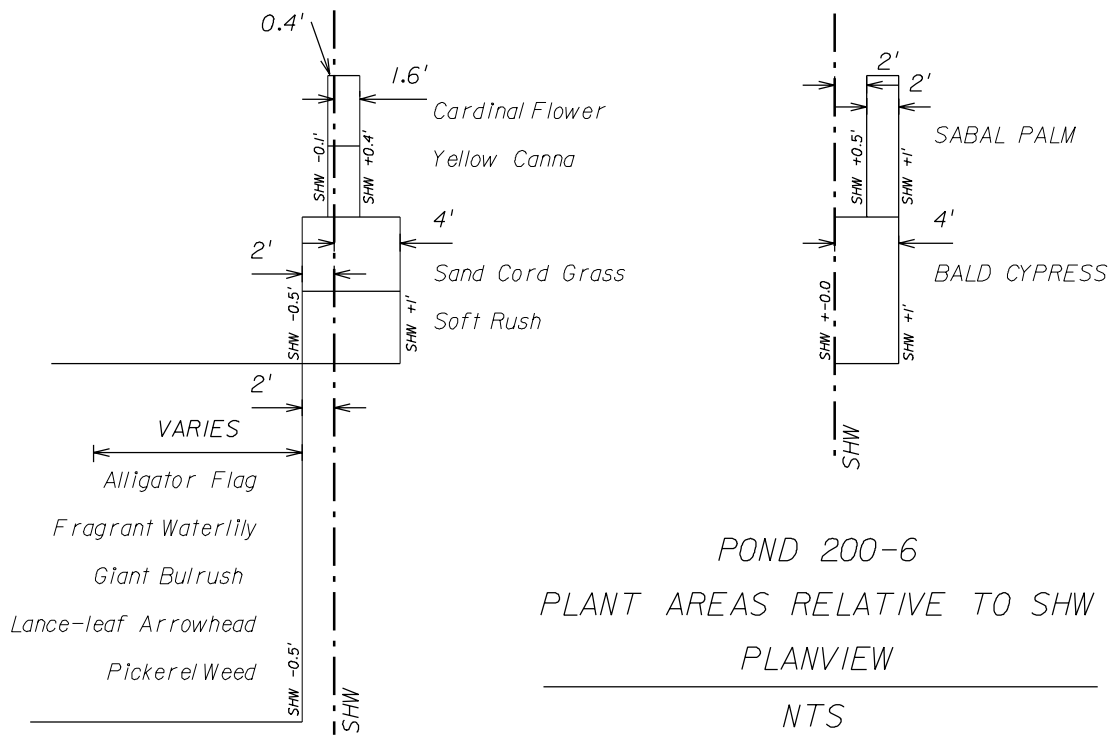
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POND 200-6
SECTION A POND PLANTINGS
NTS (A)



POND 200-6
SECTION B POND PLANTINGS
NTS (B)



POND 200-6
PLANT AREAS RELATIVE TO SHW
PLANVIEW
NTS

SEE PAY ITEM # 580-1-1
SEE LEAD LANDSCAPE ARCHITECT
PLANS FOR DETAILS

SEE LEAD LANDSCAPE ARCHITECTS
PLANS FOR LANDSCAPE DETAILS

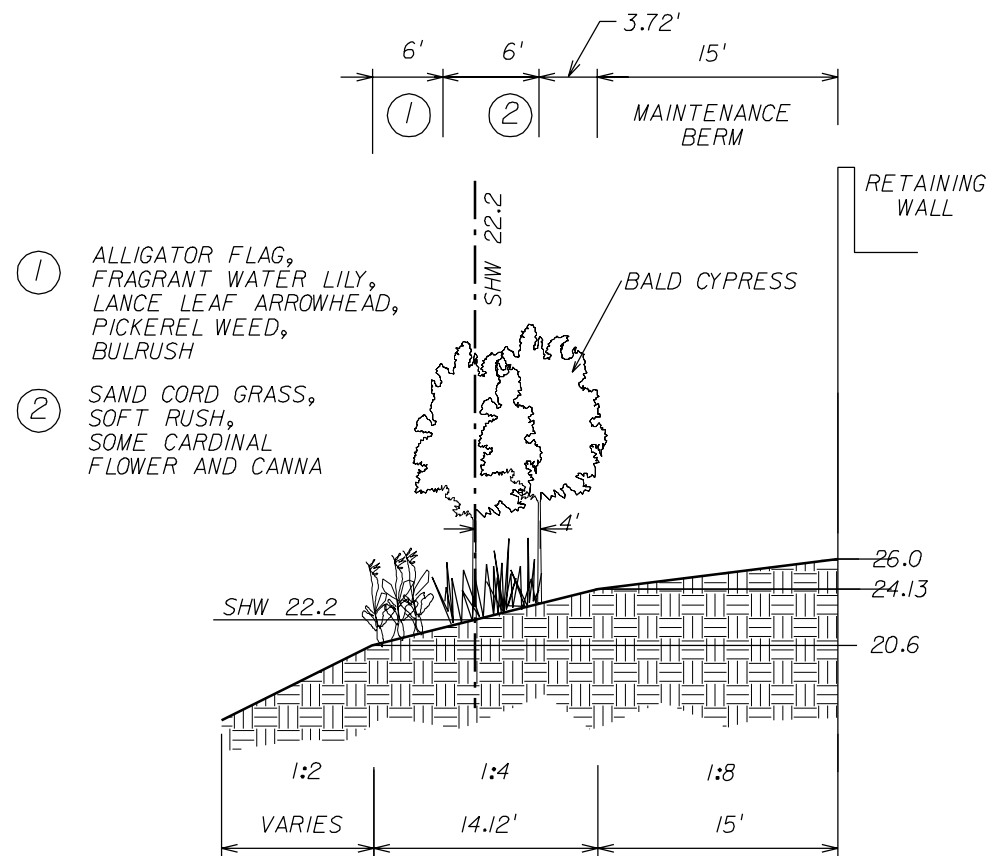
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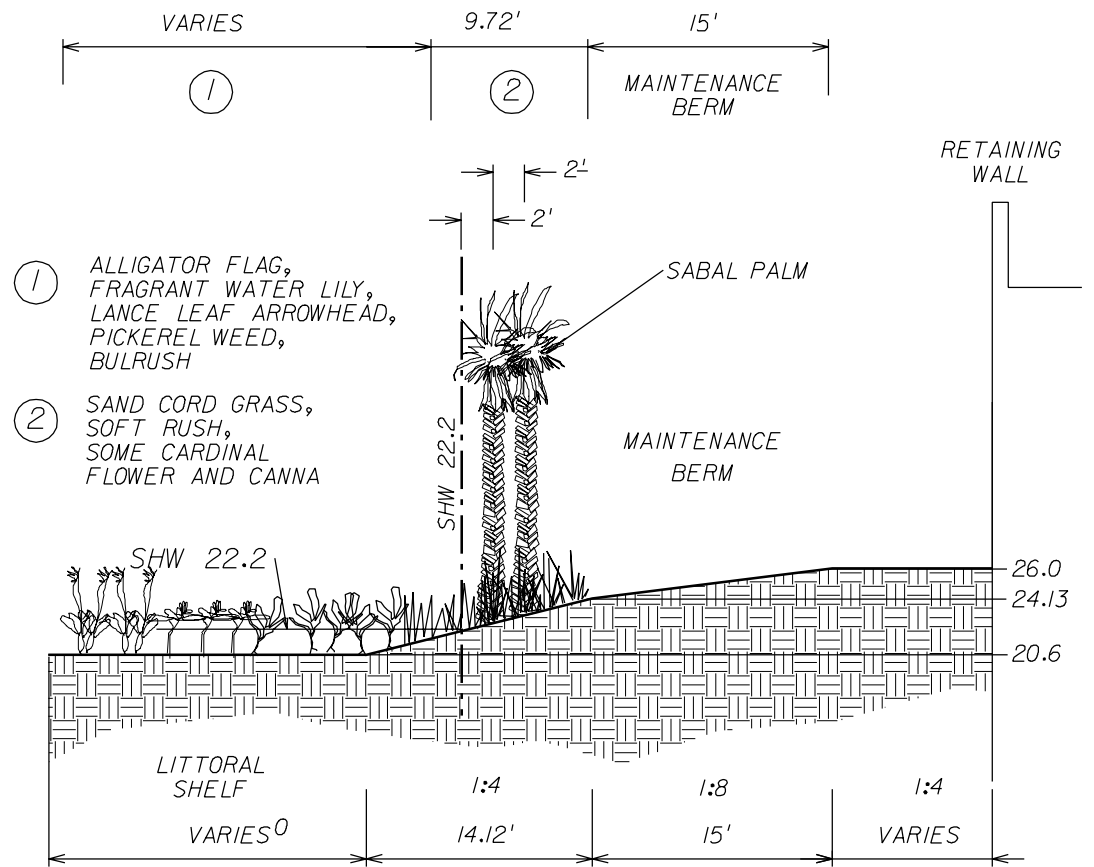
CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE DETAILS (I)	
SHEET NO. LD-10	

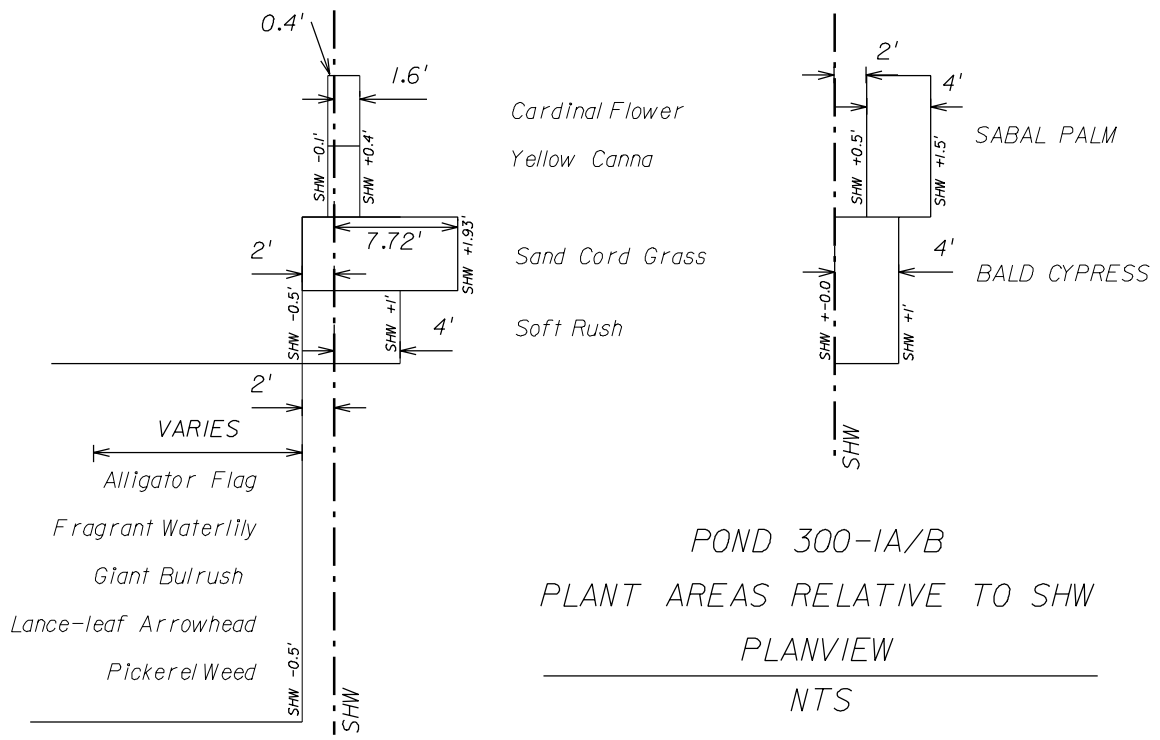
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POND 300-1A/B
SECTION C POND PLANTINGS
NTS (C)



POND 300-1A/B
SECTION D POND PLANTINGS
NTS (D)



POND 300-1A/B
PLANT AREAS RELATIVE TO SHW
PLANVIEW
NTS

SEE PAY ITEM # 580-1-1

SEE LEAD LANDSCAPE ARCHITECT
PLANS FOR DETAILS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

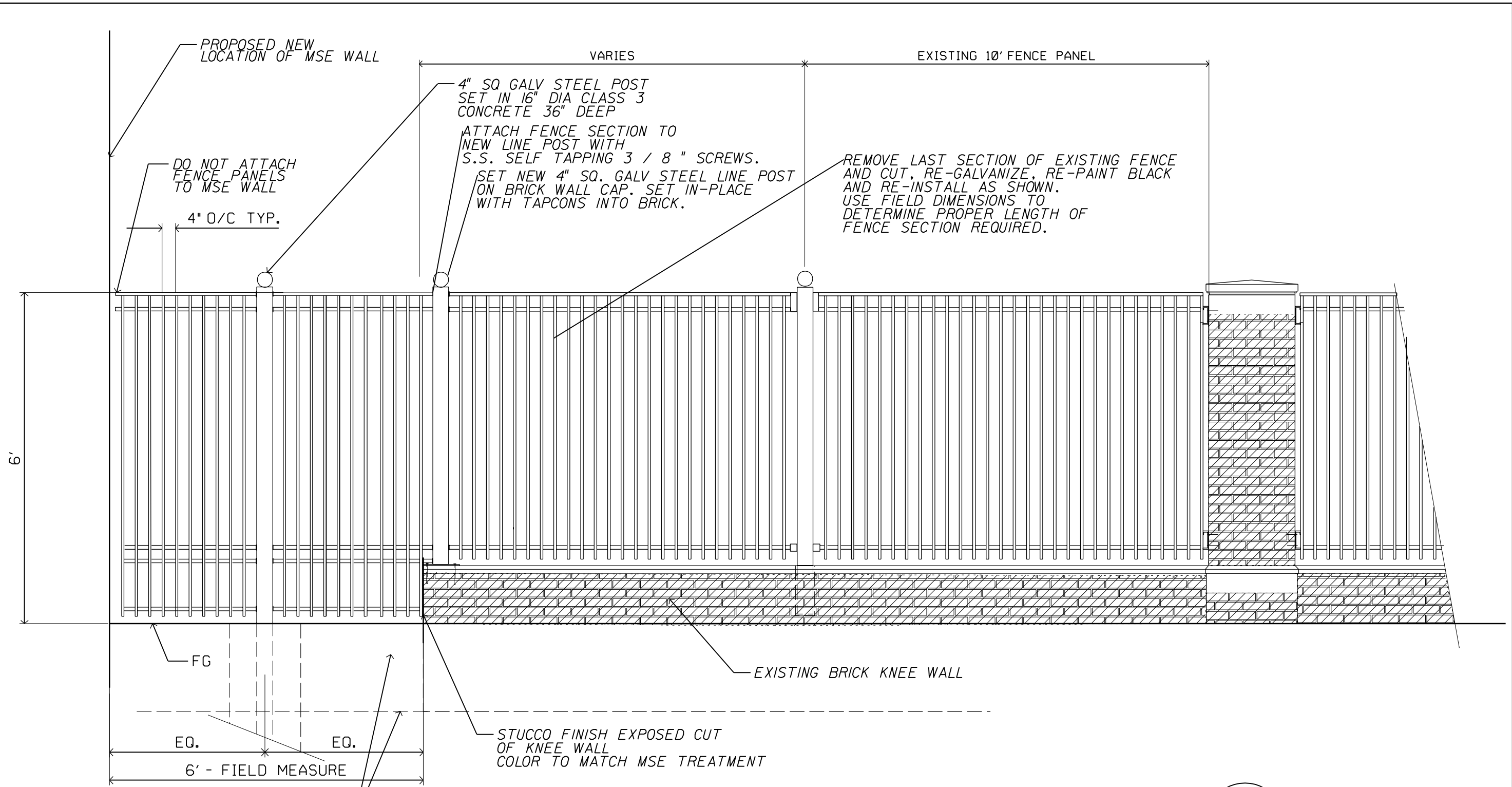
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE DETAILS (2)

SHEET NO.	LD-II
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SAW CUT AND REMOVE EXISTING KNEE WALL AND FOOTING 6' FROM PROPOSED MSE WALL. SEE LANDSCAPE PLANS FOR LOCATIONS

KNEE WALL AND COLUMN MODIFICATION DETAIL

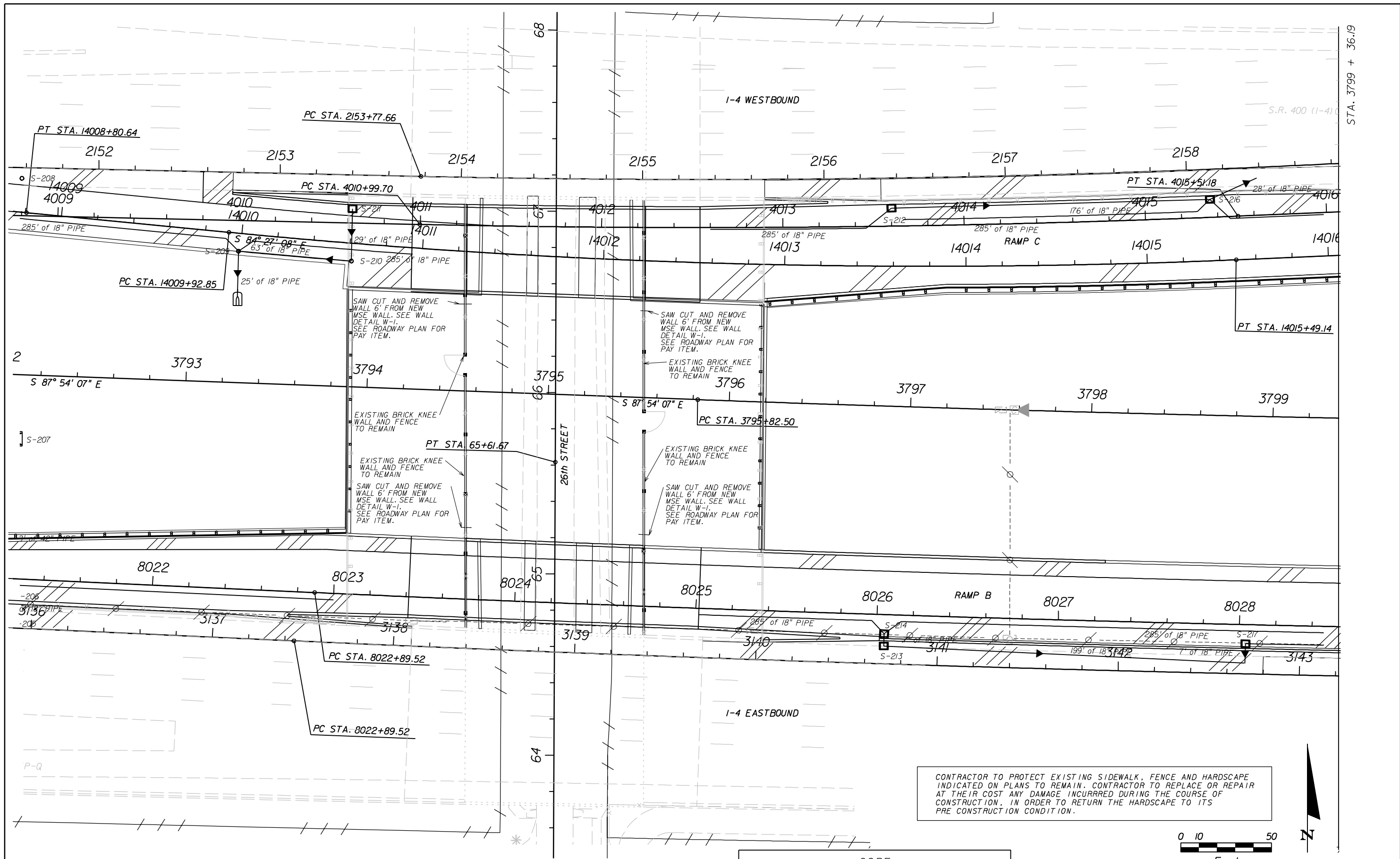
WI

8' ht wall as used between abutments at 26th street

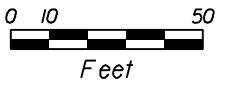
NOTE:
ALL FENCE PANELS AND LINE POSTS SHALL BE GALVANIZED STEEL, PAINTED GLOSS BLACK AND SHALL MATCH EXISTING FENCE SECTIONS

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DATE	DESCRIPTION	DATE	DESCRIPTION							

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CONTRACTOR TO PROTECT EXISTING SIDEWALK, FENCE AND HARDSCAPE INDICATED ON PLANS TO REMAIN. CONTRACTOR TO REPLACE OR REPAIR AT THEIR COST ANY DAMAGE INCURRED DURING THE COURSE OF CONSTRUCTION, IN ORDER TO RETURN THE HARDSCAPE TO ITS PRE CONSTRUCTION CONDITION.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

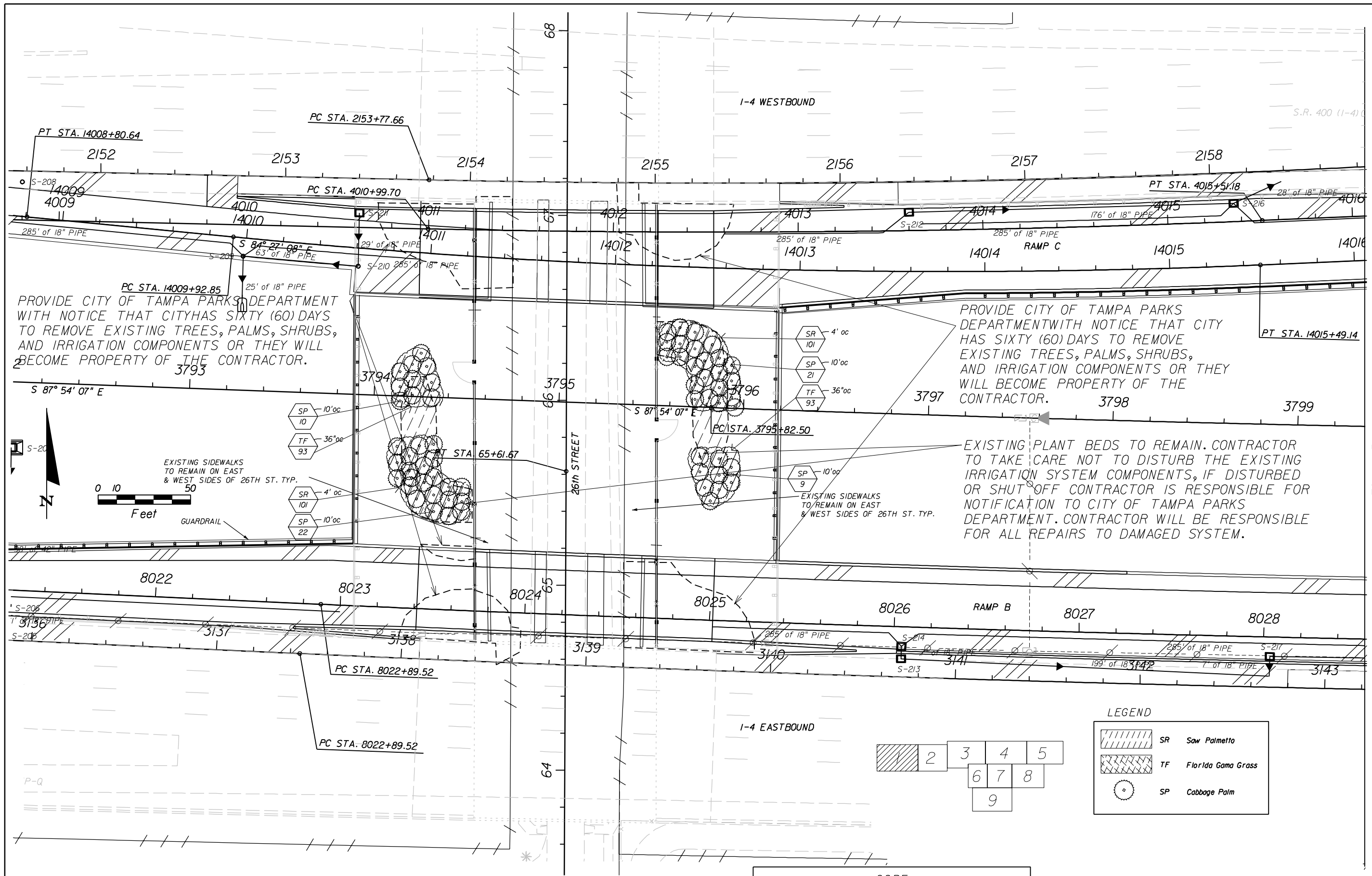
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

HARDSCAPE PLAN SHEET(1)
 SHEET NO.
 LD-13

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CORE		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE PLAN SHEET (1)

SHEET NO.	LD-14
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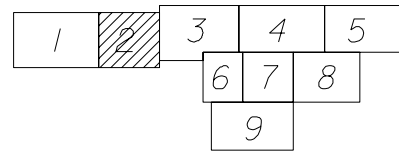
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MATCH LINE SHEET (2)
SEE PLAN SHEET (2)

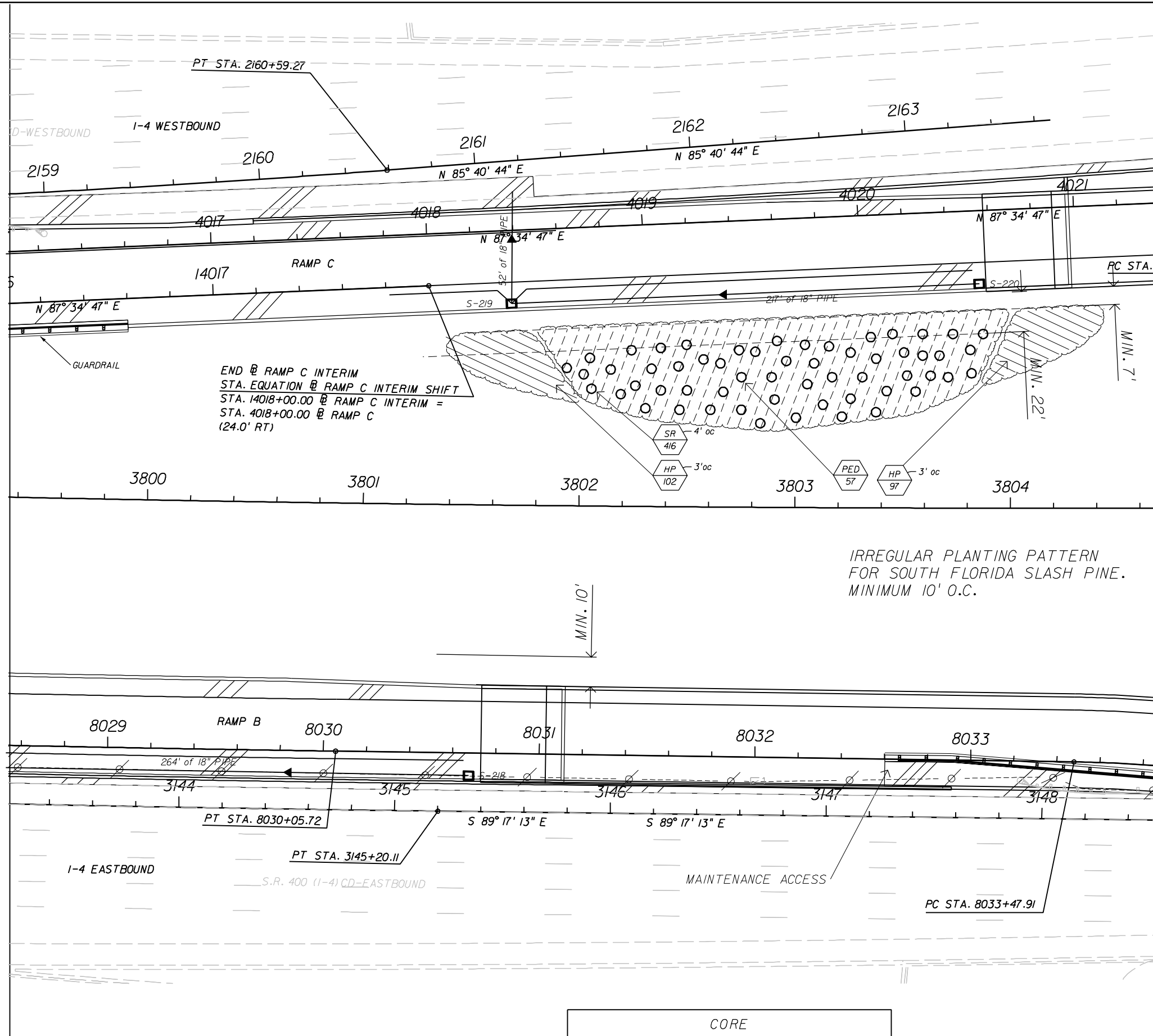
STA. 3799 + 36.19

LEGEND

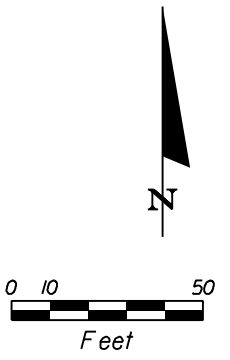
HP Firebush
 SR Saw Palmetto
 PED South Florida Slash Pine



MATCH LINE
SEE PLAN SHEET (1)



MATCH LINE
SEE PLAN SHEET (3)



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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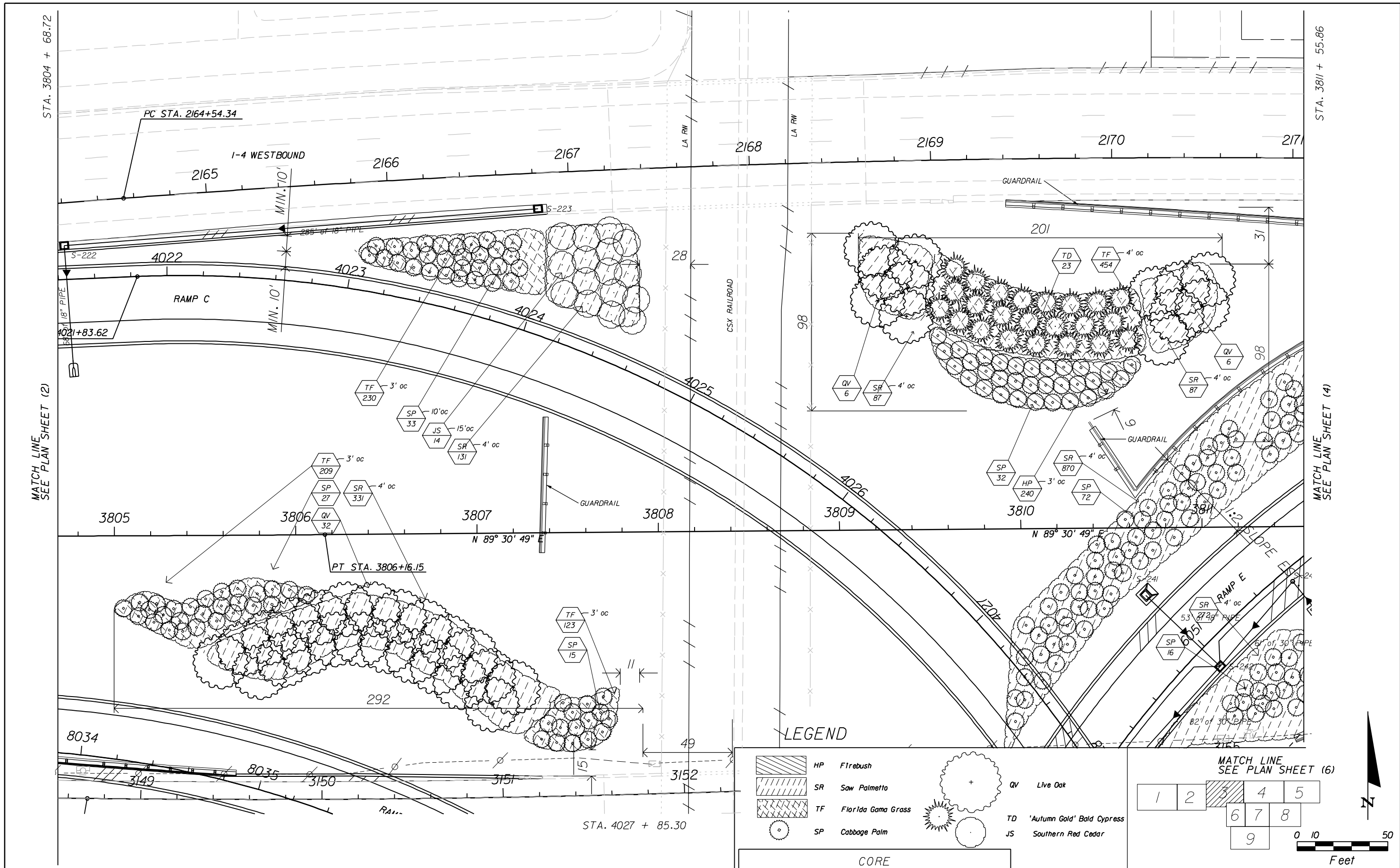
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 LIC 000254
 813 288-1604 fx.
 813 288-1504 pn.

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE PLAN SHEET (2)

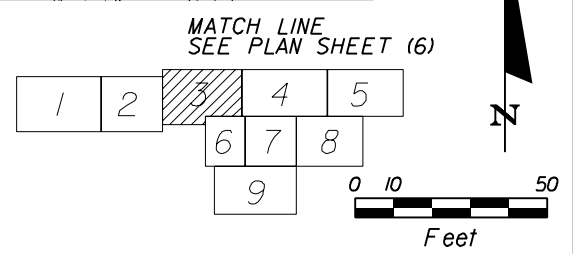
SHEET NO.
LD-15

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LEGEND

	HP	Flrebush		QV	Live Oak
	SR	Saw Palmetto		TD	'Autumn Gold' Bald Cypress
	TF	Florida Gama Grass		JS	Southern Red Cedar
	SP	Cabbage Palm			



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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813 258-4604 ph.

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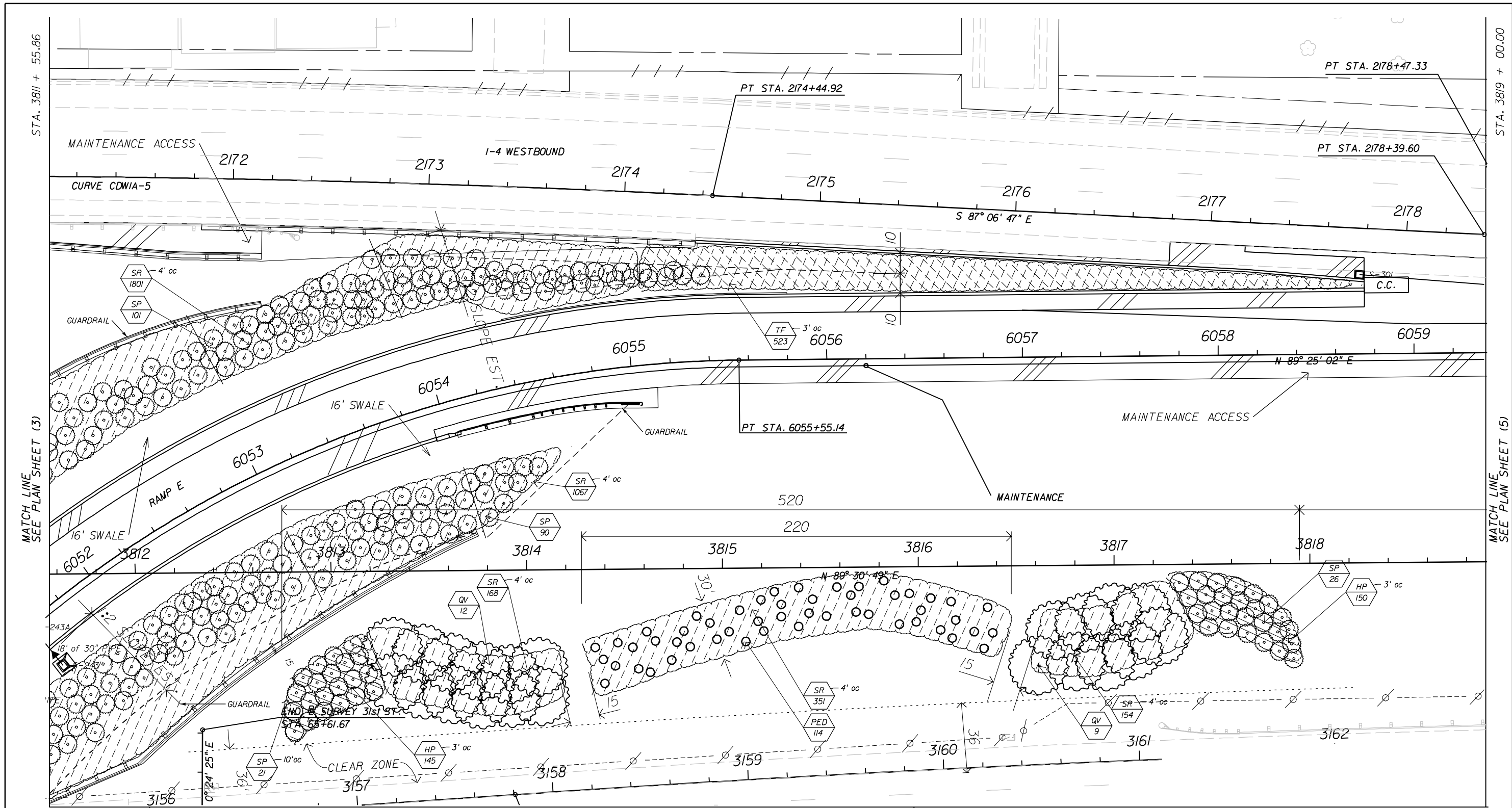
**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE PLAN SHEET (3)

SHEET NO.
LD-16

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MATCH LINE SEE PLAN SHEET (3)

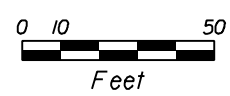
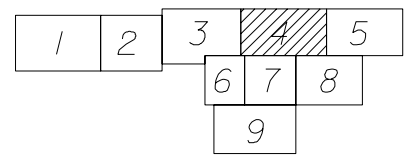
MATCH LINE SEE PLAN SHEET (5)

MATCH LINE SEE PLAN SHEET (6)

MATCH LINE SEE PLAN SHEET (7)

MATCH LINE SEE PLAN SHEET (8)

LEGEND	
	HP Firebush
	SR Saw Palmetto
	TF Florida Gama Grass
	QV Live Oak
	SP Cabbage Palm



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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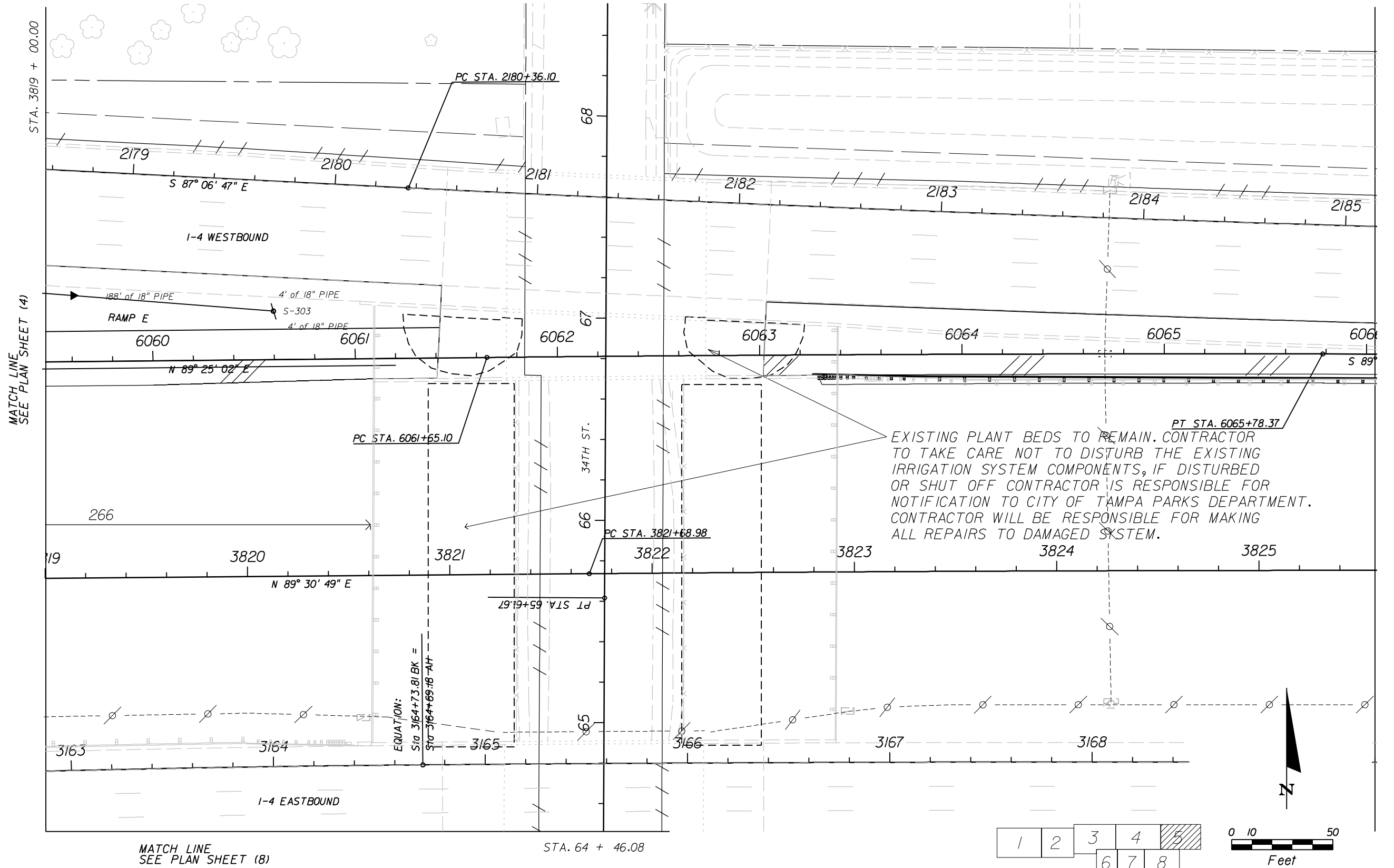
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CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

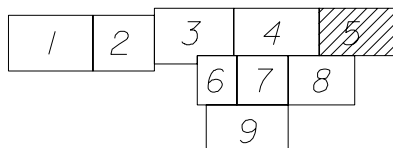
LANDSCAPE PLAN SHEET (4)

SHEET NO.
LD-17

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EXISTING PLANT BEDS TO REMAIN. CONTRACTOR TO TAKE CARE NOT TO DISTURB THE EXISTING IRRIGATION SYSTEM COMPONENTS, IF DISTURBED OR SHUT OFF CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO CITY OF TAMPA PARKS DEPARTMENT. CONTRACTOR WILL BE RESPONSIBLE FOR MAKING ALL REPAIRS TO DAMAGED SYSTEM.



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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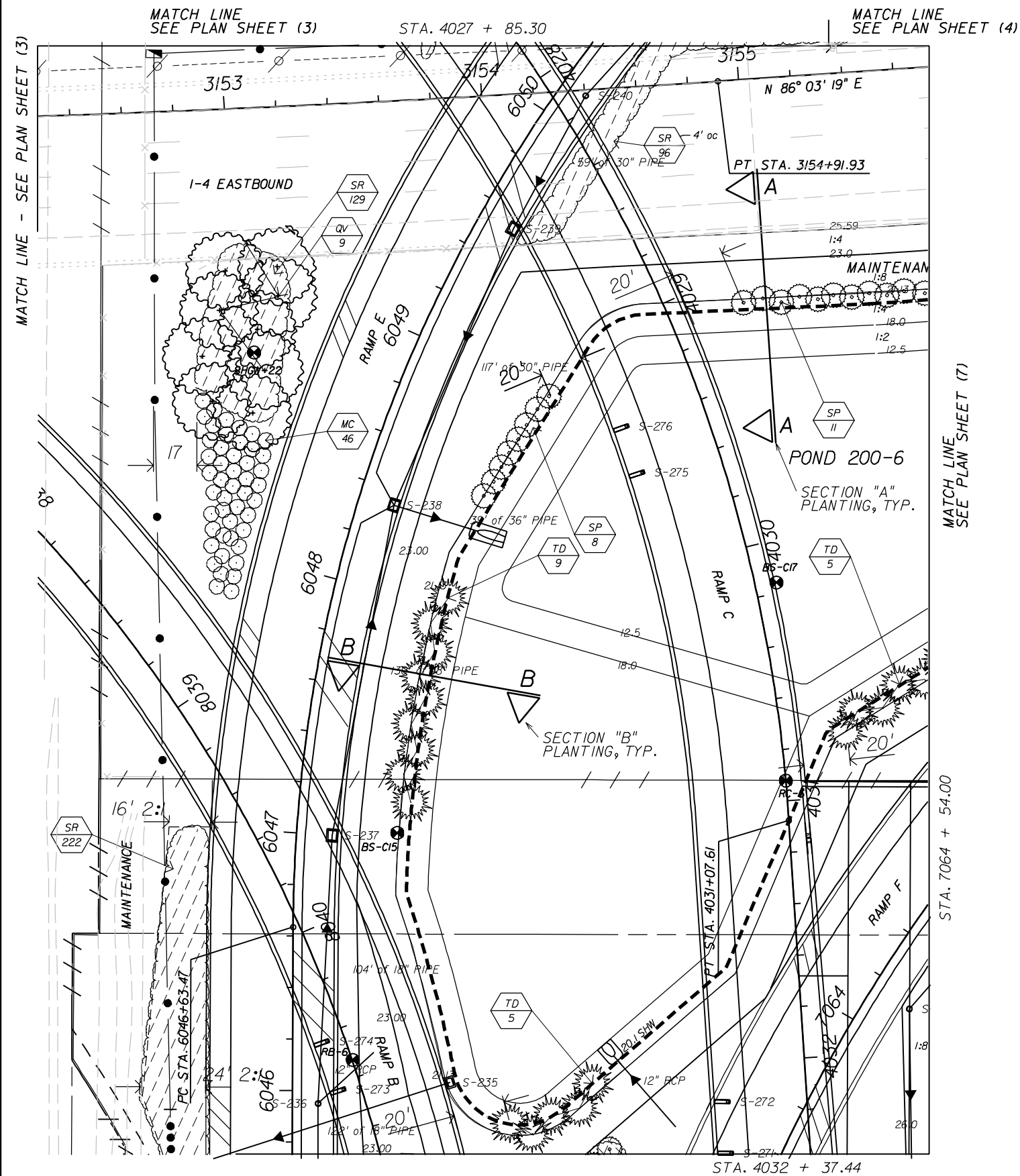
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE PLAN SHEET (5)

SHEET NO.
LD-18

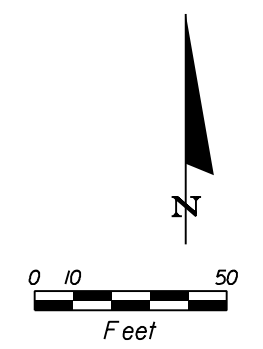
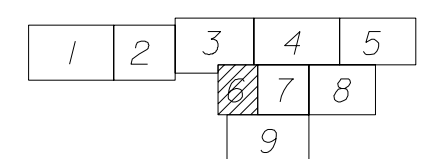
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LEGEND

	MC	Wax Myrtle
	SR	Saw Palmetto
	TF	Florida Gama Grass
	QV	Live Oak
	SP	Cabbage Palm
	TD	'Autumn Gold' Bald Cypress

SEE LANDSCAPE PLAN SHEET (10)
FOR AQUATIC PLANTING



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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LANDSCAPE ARCHITECTS LAND PLANNERS URBAN DESIGNERS
JONATHAN H. TONER, ASLA FLO001123

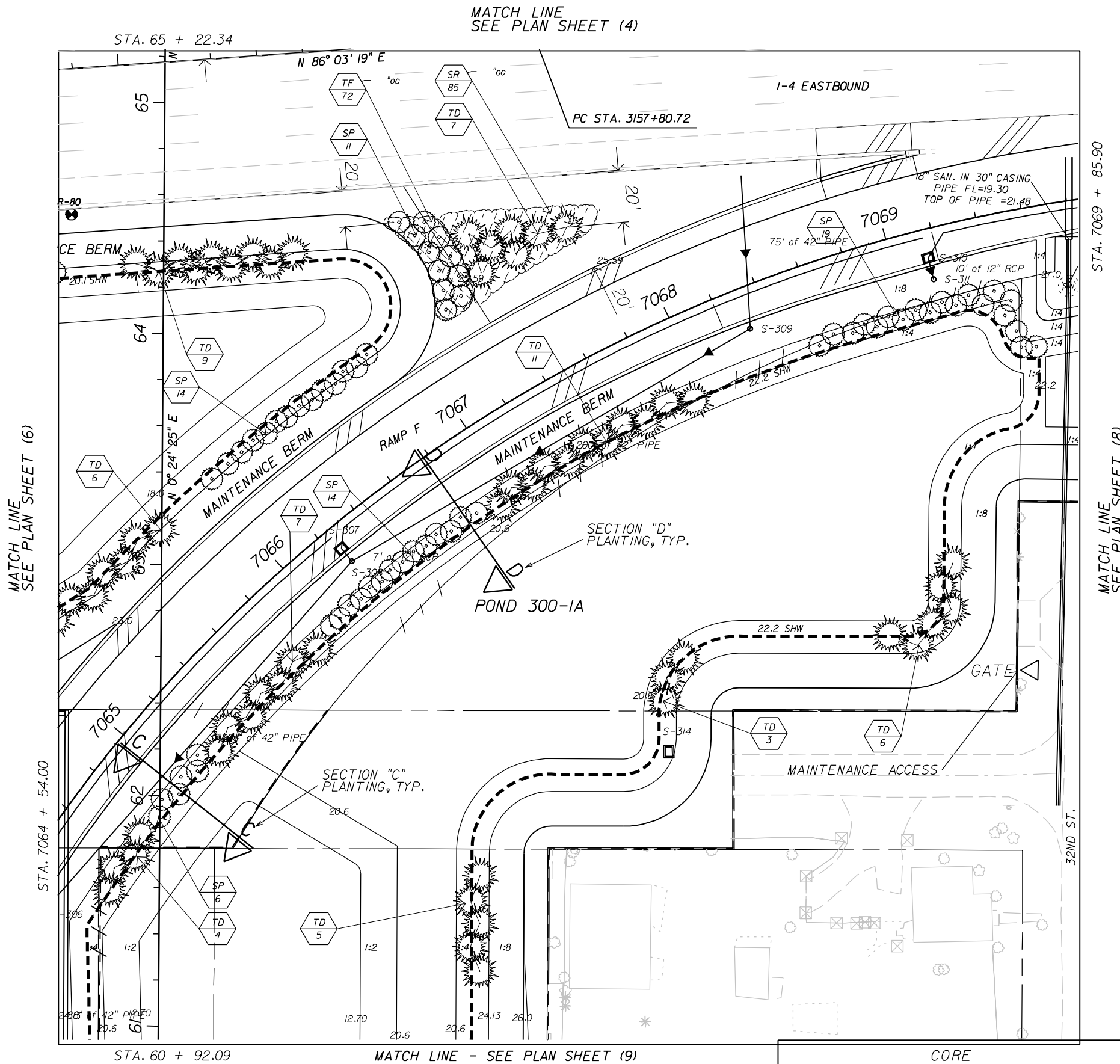
2011 CLEVELAND ST, SUITE E
TAMPA, FLORIDA 33606
LIC 000254
813 258-4604 tx.
813 268-4804 ph.

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE PLAN SHEET (6)

SHEET NO.	LD-19
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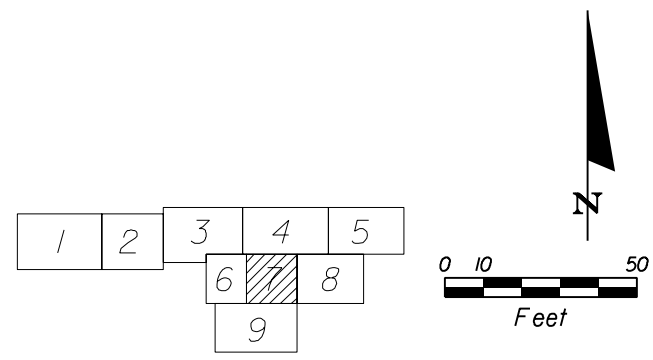
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LEGEND

- SR Saw Palmetto
- TF Florida Gama Grass
- SP Cabbage Palm
- TD 'Autumn Gold' Bald Cypress

SEE LANDSCAPE PLAN SHEET (11) FOR AQUATIC PLANTING



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE PLAN SHEET (7)

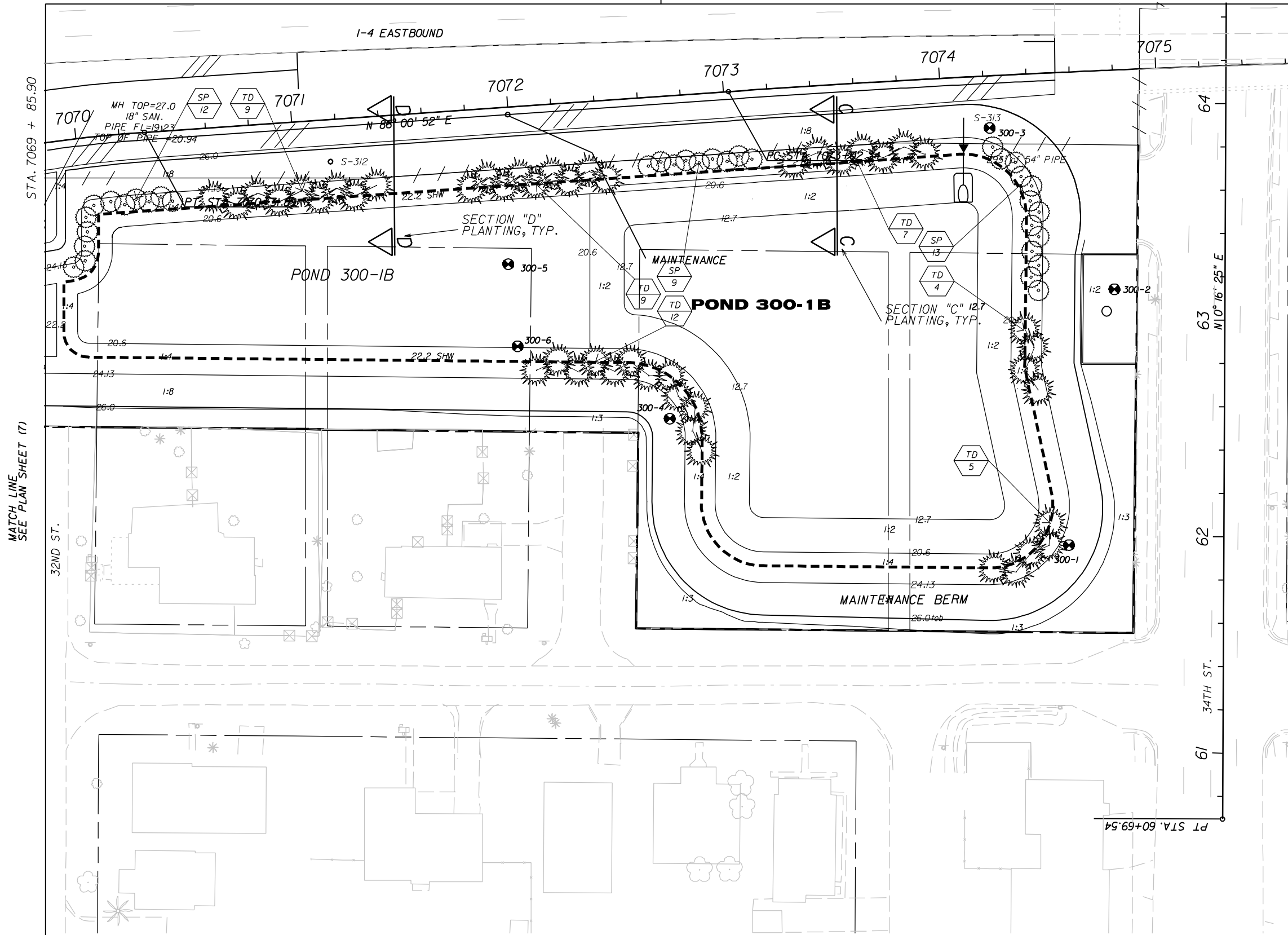
SHEET NO.
LD-20

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

MATCH LINE
SEE PLAN SHEET (4)

MATCH LINE
SEE PLAN SHEET (5)

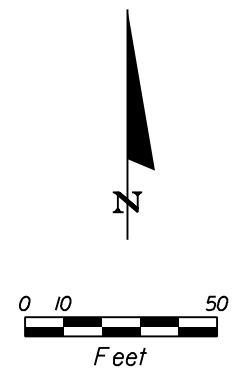
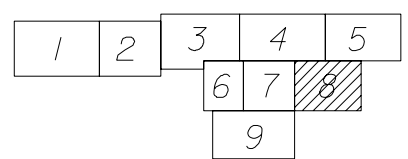
STA. 64 + 46.08



LEGEND

	SP	Cabbage Palm
	TD	'Autumn Gold' Bald Cypress

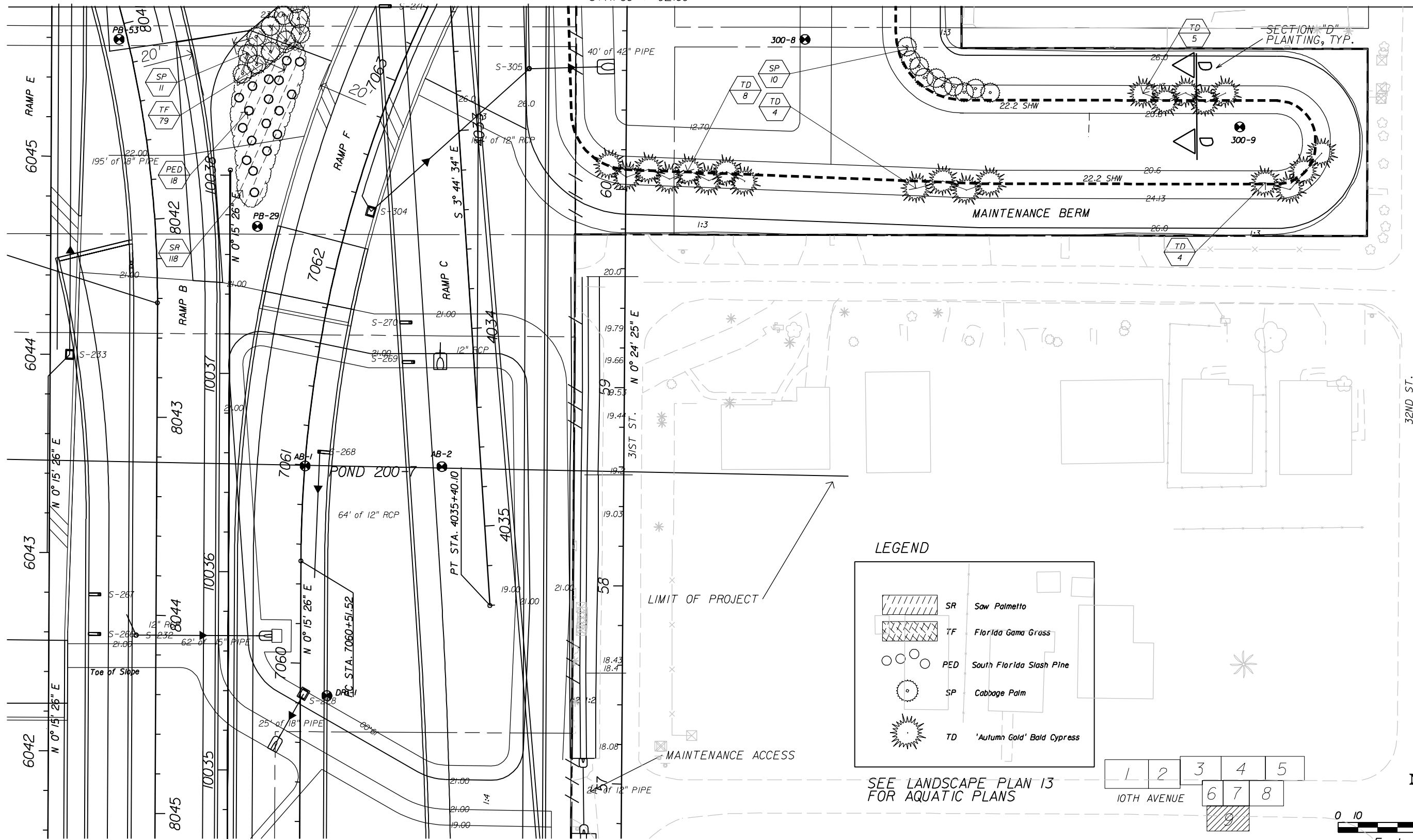
SEE LANDSCAPE PLAN SHEET (12)
FOR AQUATIC PLANTING



<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					<p>TERRA TECTONICS design group international, inc. LANDSCAPE ARCHITECTS LAND PLANNERS URBAN DESIGNERS JONATHAN H. TONER, ASLA FLO001123</p> <p>2011 CLEVELAND ST. SUITE E TAMPA, FLORIDA 33606 LOC 000254 813 252-4604 tx. 813 268-4804 ph.</p>			<p>CORE</p> <p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>SR 400</td> <td>HILLSBOROUGH</td> <td>258415-2-52-01</td> </tr> </tbody> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	HILLSBOROUGH	258415-2-52-01	<p>LANDSCAPE PLAN SHEET (8)</p>		<p>SHEET NO.</p> <p>LD-21</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																							
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																								
SR 400	HILLSBOROUGH	258415-2-52-01																								

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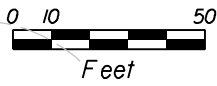
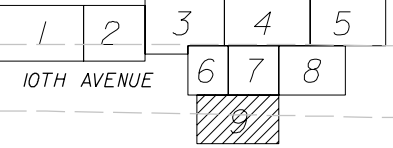
MATCH LINE
STA. 60 + 92.09
SEE PLAN SHEET (7)



LEGEND

	SR	Saw Palmetto
	TF	Florida Gama Grass
	PED	South Florida Slash Pine
	SP	Cabbage Palm
	TD	'Autumn Gold' Bald Cypress

SEE LANDSCAPE PLAN 13
FOR AQUATIC PLANS



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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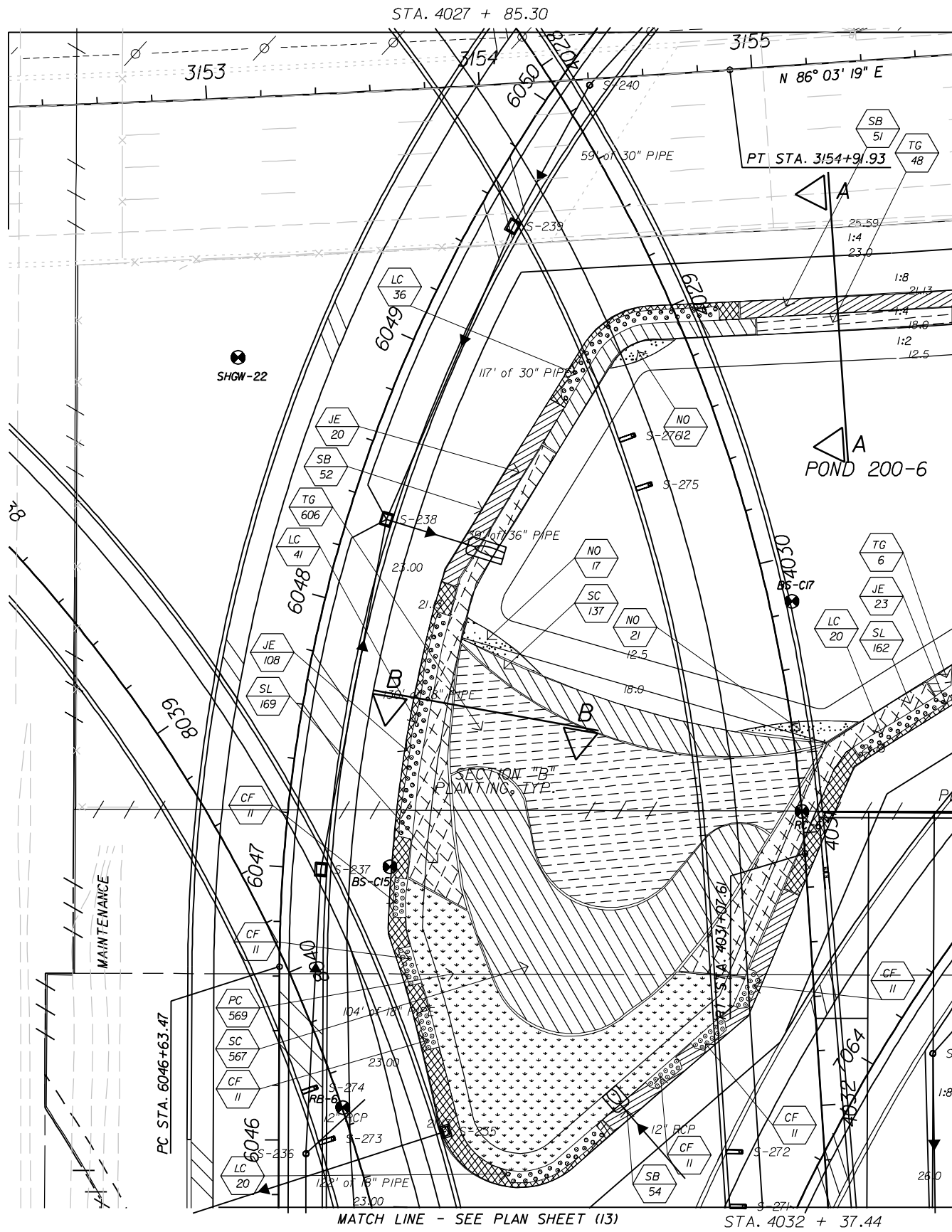
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LOC 000254
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813 268-4604 ph.

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE PLAN SHEET (9)

SHEET NO.
LD-22

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-11.01, F.A.C.



LEGEND

	CF	Yellow Canna
	JE	Soft Rush
	LC	Cardinal Flower
	NO	Fragrant Waterlily
	PC	Pickerel Weed
	SL	Lance-Leaf Arrowhead
	SC	Giant Bulrush
	SB	Sand Cord Grass
	TG	Alligator Flag

SEE PAY ITEM NOTE 580-1-1

MATCH LINE
SEE PLAN SHEET (11)

STA. 7064 + 54.00

PC STA. 6046+63.47

MATCH LINE - SEE PLAN SHEET (13)

STA. 4032 + 37.44

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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JONATHAN H. TONER, ASLA FLO001123

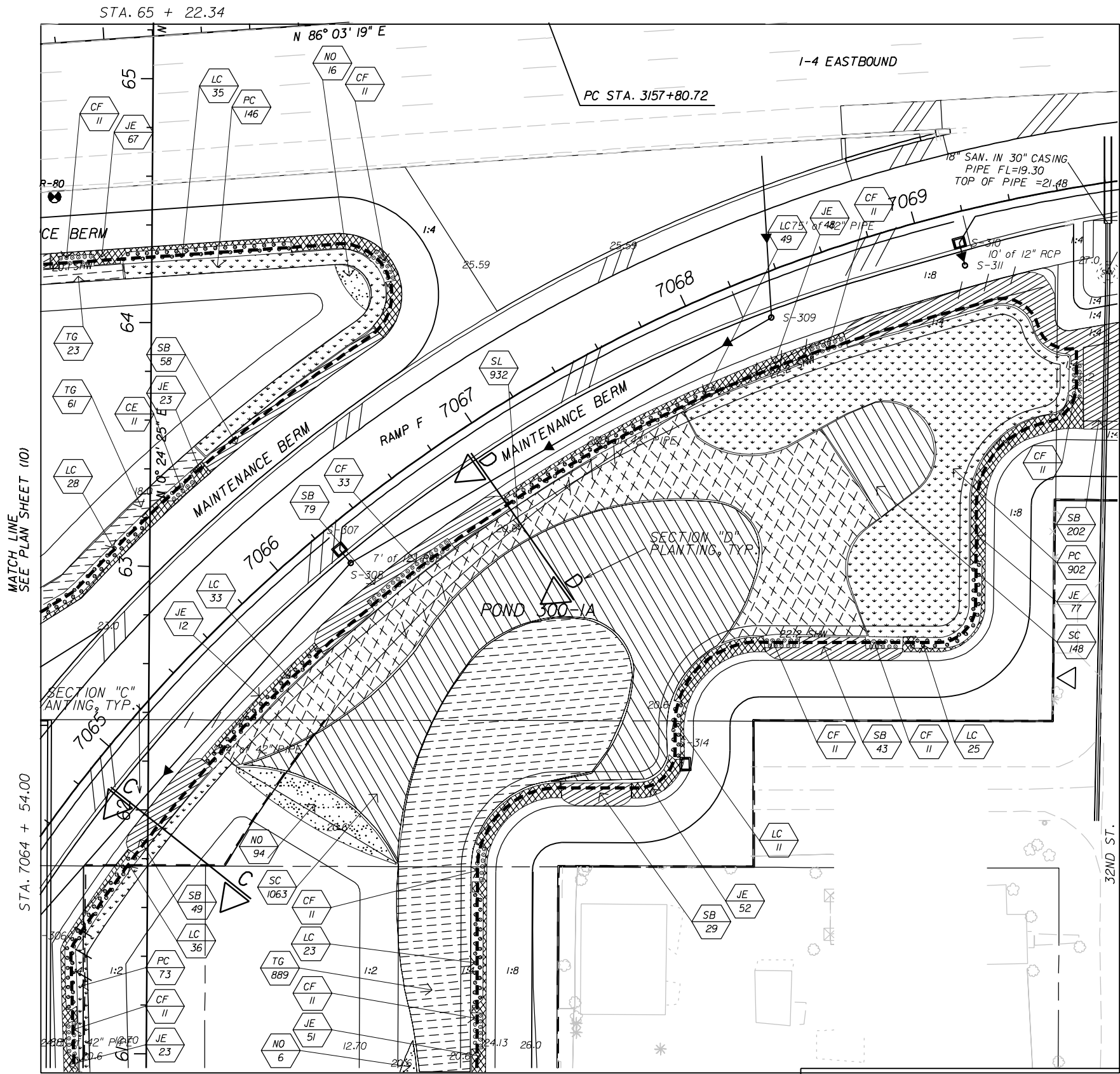
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CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE PLAN SHEET (10)

SHEET NO.
LD-23

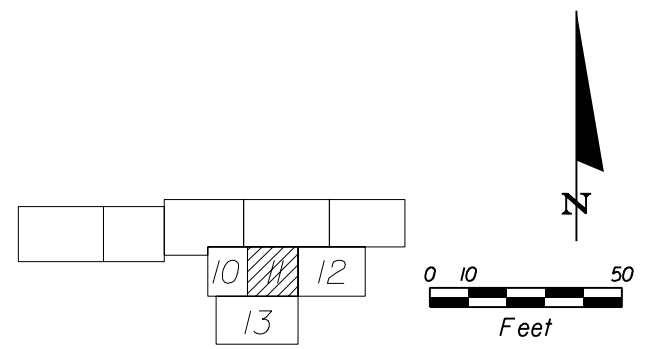
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LEGEND

	CF Yellow Canna
	JE Soft Rush
	LC Cardinal Flower
	NO Fragrant Waterlily
	PC Pickerel Weed
	SL Lance-Leaf Arrowhead
	SC Giant Bulrush
	SB Sand Cord Grass
	TG Alligator Flag

SEE PAY ITEM NOTE 580-1-1



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

TERRA TECTONICS
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 JONATHAN H. TONER, ASLA FLO001123

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 LCC 000294
 813 258-4604 tx.
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

LANDSCAPE PLAN SHEET (11)

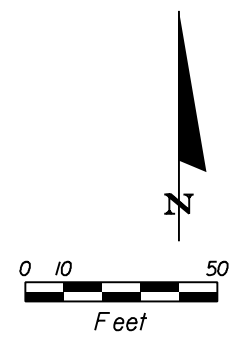
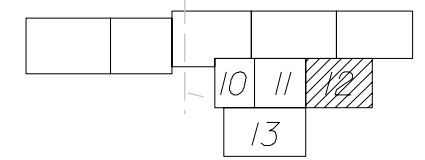
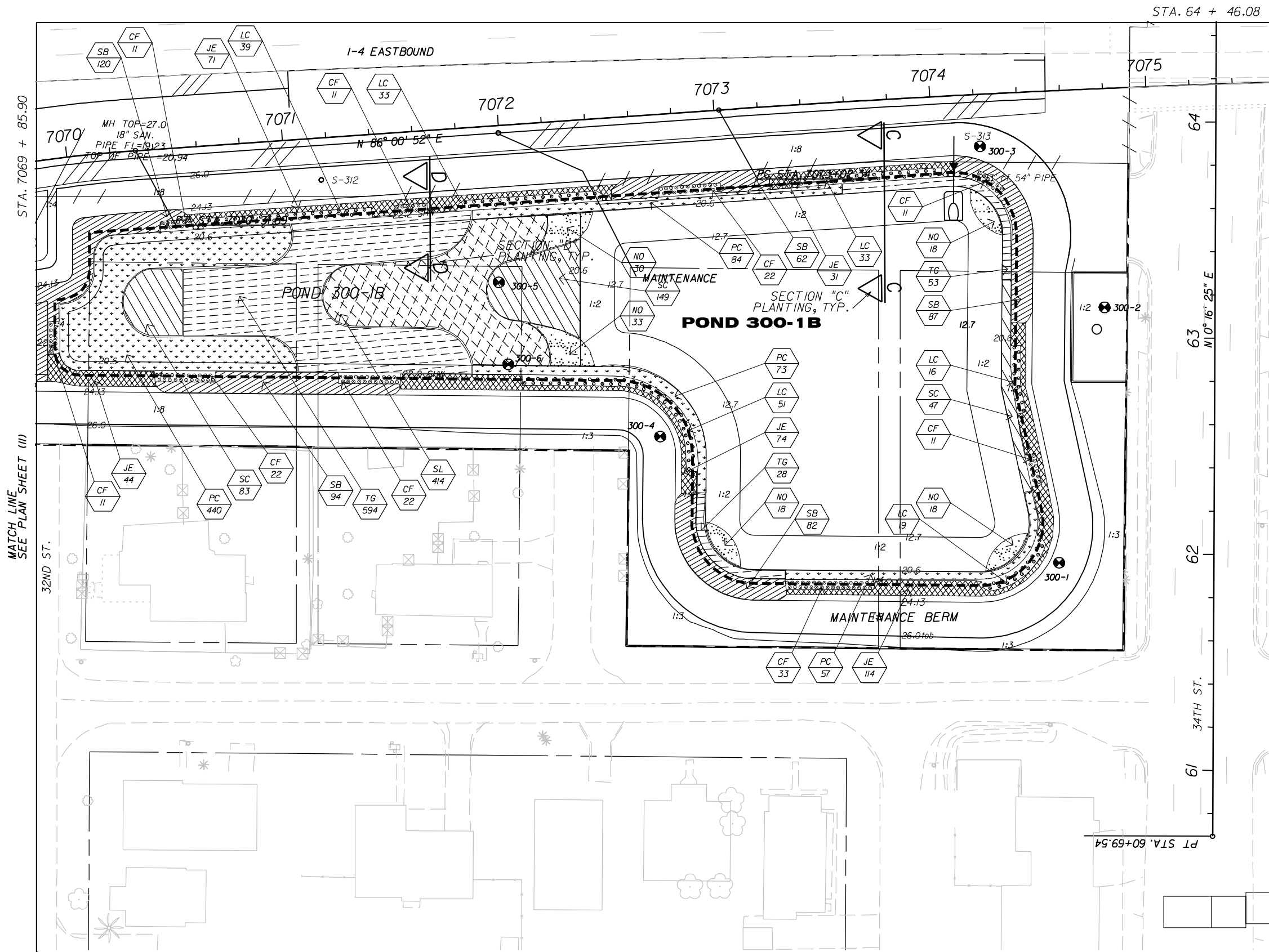
SHEET NO.
LD-24

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-11.01, F.A.C.

LEGEND

	CF	Yellow Canna
	JE	Soft Rush
	LC	Cardinal Flower
	NO	Fragrant Waterlily
	PC	Pickerel Weed
	SL	Lance-Leaf Arrowhead
	SC	Giant Bulrush
	SB	Sand Cord Grass
	TG	Alligator Flag

SEE PAY ITEM NOTE 580-1-1

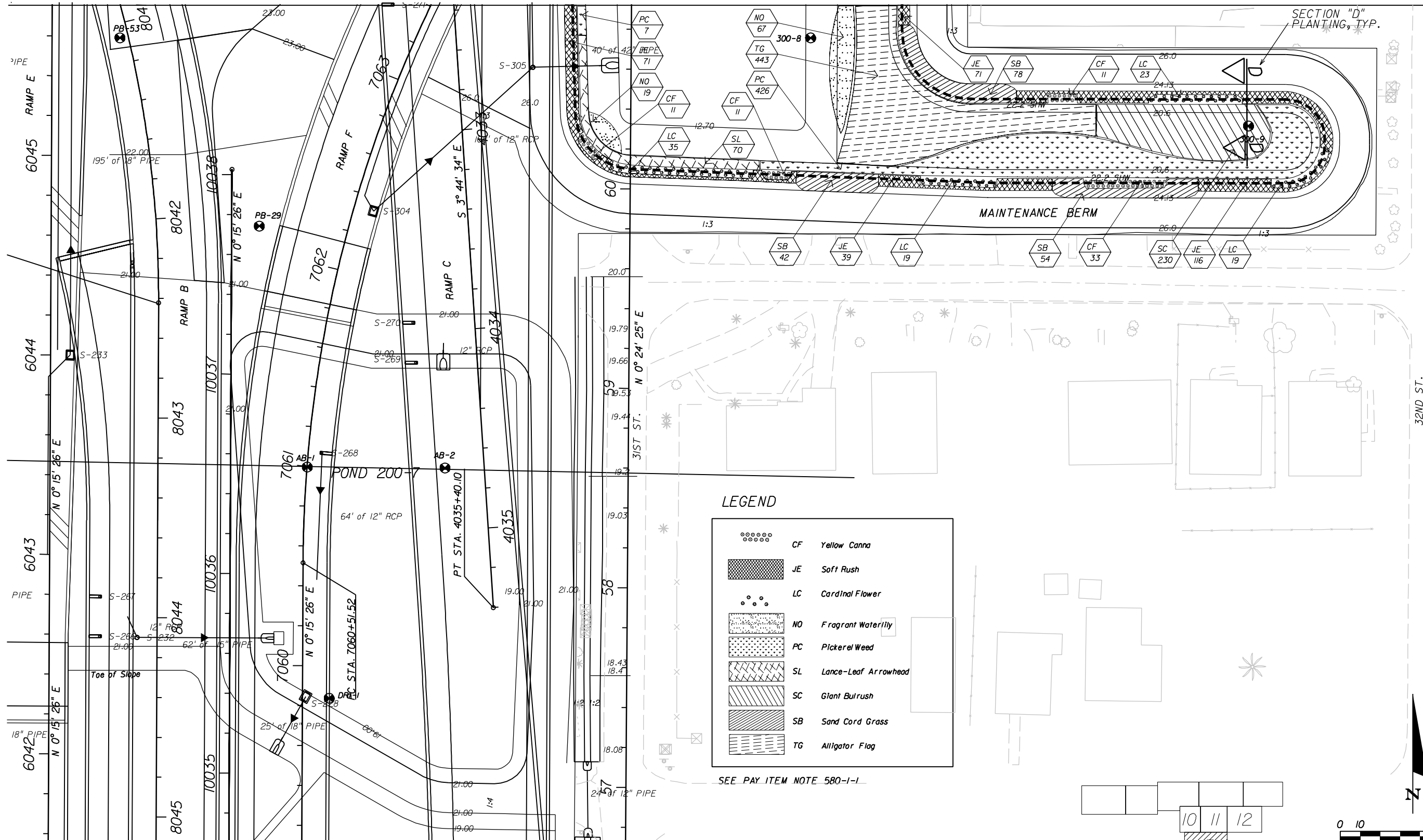


MATCH LINE SEE PLAN SHEET (11)

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

<p style="text-align: center;">CORE</p> <p style="text-align: center;">STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p>				<p>LANDSCAPE PLAN SHEET (12)</p>	<p>SHEET NO. LD-25</p>													
<p>DATE</p>		<p>REVISIONS</p> <table border="1" style="width: 100%;"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					<table border="1" style="width: 100%;"> <tr> <td>ROAD NO.</td> <td>COUNTY</td> <td>FINANCIAL PROJECT ID</td> </tr> <tr> <td>SR 400</td> <td>HILLSBOROUGH</td> <td>258415-2-52-01</td> </tr> </table>	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400
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SR 400	HILLSBOROUGH	258415-2-52-01																
<p>TERRA TECTONICS design group international, inc. LANDSCAPE ARCHITECTS LAND PLANNERS URBAN DESIGNERS JONATHAN H. TONER, ASLA FLO001123</p>				<p>2011 CLEVELAND ST. SUITE E TAMPA, FLORIDA 33606 LCC 000294 813 258-4604 tx. 813 258-4604 ph.</p>														

STA. 60 + 92.09 MATCH LINE
SEE PLAN SHEET (11)



LEGEND

- CF Yellow Canna
- JE Soft Rush
- LC Cardinal Flower
- NO Fragrant Waterlily
- PC Pickerel Weed
- SL Lance-Leaf Arrowhead
- SC Giant Bulrush
- SB Sand Cord Grass
- TG Alligator Flag

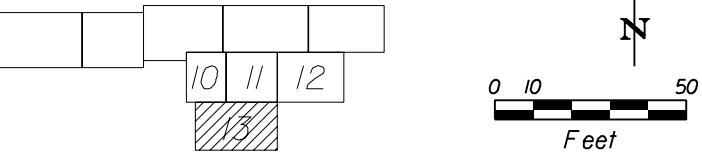
SEE PAY ITEM NOTE 580-1-1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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JONATHAN H. TONER, ASLA FLO001123

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LCC 000294
813 258-4604 tx.
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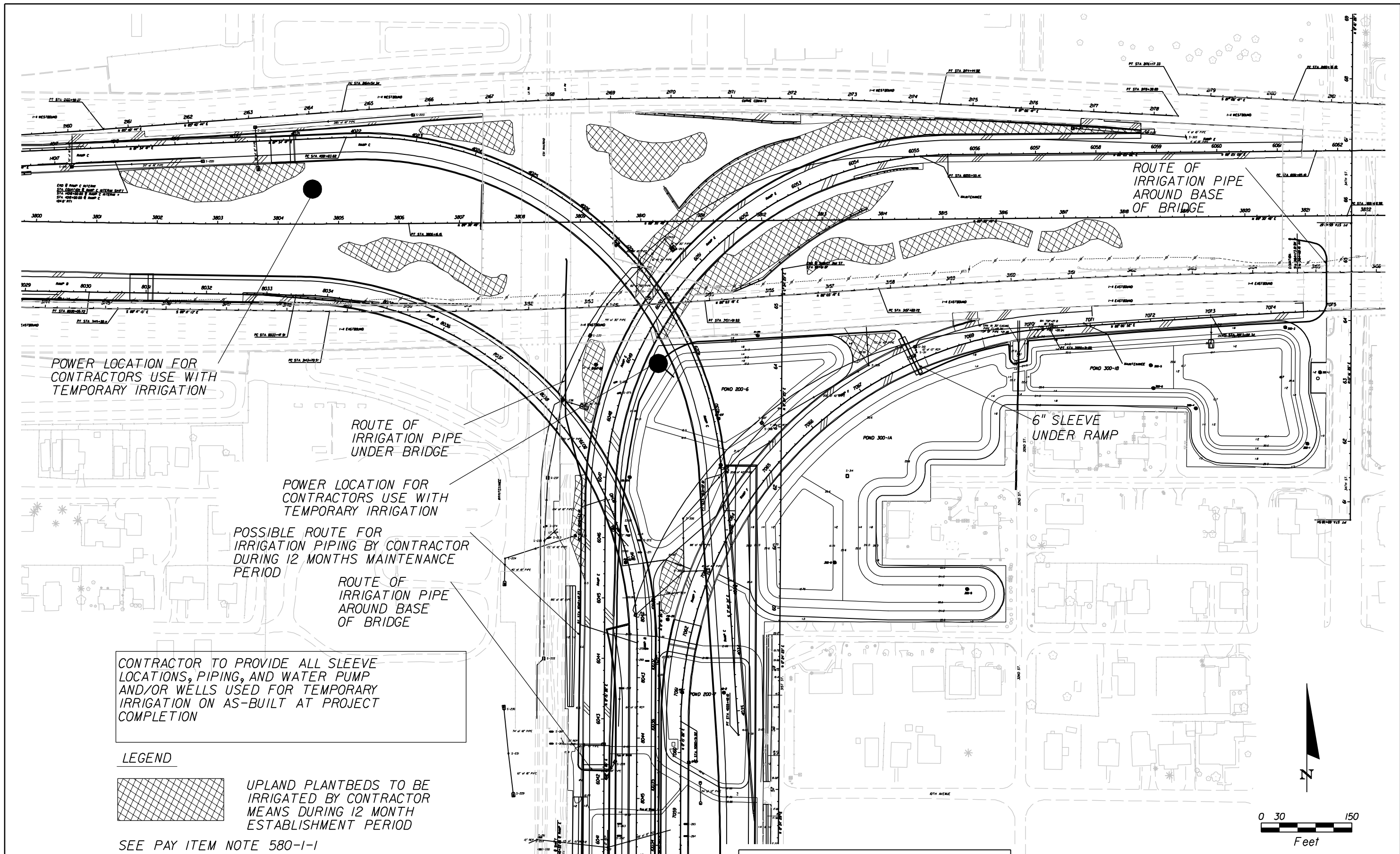
CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01



LANDSCAPE PLAN SHEET (13)

SHEET NO.
LD-26

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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 LANDSCAPE ARCHITECTS LAND PLANNERS URBAN DESIGNERS
 JONATHAN H. TONER, ASLA FLO001123

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 TAMPA, FLORIDA 33606
 LIC# 000254
 813 258-4604 tx.
 813 268-4604 ph.

CORE		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SLEEVING PLAN

SHEET NO.
LD-27

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G10-11.011, F.A.C.

TECHNICAL MAINTENANCE PLAN

THIS PLAN IS TO PROVIDE GENERAL MAINTENANCE GUIDANCE FOR THE MAINTAINING AGENCY. THIS INFORMATION IS TO BE USED BY THE CONTRACTOR UP TO AND AFTER FINAL ACCEPTANCE OF THE LANDSCAPE CONSTRUCTION PROJECT AND DURING THE FIRST FULL YEAR OF ESTABLISHMENT PERIOD MAINTENANCE.

MAINTENANCE OPERATION	12 MONTH CALENDAR
EDGING <i>EDGE LANDSCAPE PLANTING BEDS WITHIN PROJECT LIMITS AT EACH MOWING.</i>	<i>BI-MONTHLY EDGING BY MECHANICAL EDGER IS NECESSARY TO MAINTAIN CLEAN BED EDGES.</i>
RECOMMENDED WATERING SCHEDULE	<i>WATER AS NEEDED USING MANUAL HAND WATER, TRUCK WATERING, OR AN OPTIONAL CONTRACTOR DESIGN AND PROVIDED AUTOMATIC IRRIGATION WATERING SYSTEM. IRRIGATION INTENDED TO BE USED TO KEEP THE PLANT MATERIALS IN A HEALTHY VIABLE CONDITION FOR 12 MONTHS FOLLOWING THE FINAL ACCEPTANCE.</i>
WEEDING PLANTBEDS	<i>HAND WEED ALL PLANTING BEDS EVERY MONTH WEEDING BY HAND OR BY CHEMICAL HERBICIDE IS ACCEPTABLE IF NECESSARY TO CONTROL NUISANCE SPECIES. APPLIED AS PER MANUFACTURER'S SPECIFICATION USING BACKPACK SPRAYERS UNDER SUPERVISION OF LICENSED CHEMICAL OPERATOR.</i>
WEEDING LITTORAL PLANTINGS	<i>HAND WEED ALL LITTORAL AND POND PLANTING BEDS EVERY MONTH SEE LANDSCAPE NOTES FOR SPECIFICS. USE MEANS AND METHODS APPROVED BY SWFWMD GUIDELINES</i>
PRUNING <i>AS NEEDED TO REMOVE MECHANICALLY DAMAGED BRANCHES.</i>	<i>PRUNING TO BE PERFORMED IN ACCORDANCE WITH MINIMUM STANDARDS OF THE FDOT, FLORIDA HIGHWAY LANDSCAPE GUIDE, LATEST EDITION, SECTION 6, TREE AND PALM MAINTENANCE. REMOVE SUCKER GROWTH FROM THE STEM/TRUNK TO 1/3 OVERALL HEIGHT OF PLANT. ALLOW LIVE OAKS TO FORM A CANOPY HEAD. MAINTAIN A CLEAR TRUNK OF 6' HEIGHT TO ALLOW FOR GOOD VISIBILITY. OTHER TREES AND SHRUBS TO BE PRUNED AS NEEDED.</i>
FERTILIZATION	<i>TREES AND SHRUBS TO BE FERTILIZED ANNUALLY BY TOP DRESSING USING BROADCAST SPREADER, 5-5-2 ANALYSIS. GRANULAR FERTILIZER TO BE APPLIED AT A RATE OF 2 LBS PER TREE/APPLICATION. PALMS TO BE FERTILIZED EVERY 4 MONTHS USING A BROADCAST SPREADER, 12-4-2 ANALYSIS, GRANULAR FERTILIZER TO BE APPLIED AT A RATE OF 8 LBS. PER APPLICATION.</i>
MULCHING 3 INCH DEPTH SHREDDED PINE BARK CHIPS	<i>RESTORE 3 INCH LAYER OF MULCHING AT END OF THE 12 MONTHS MAINTENANCE PERIOD. MULCH SHALL BE FREE OF VEGETATIVE YARD WASTE, PLASTIC, GLASS, METAL, PALM TREES, SAND AND OTHER FOREIGN MATERIALS. MULCH SHALL BE CONSISTENT IN APPEARANCE. MULCH SHALL BE CERTIFIED TO BE STERILE AND FREE FROM VIABLE WEED AND GRASS SEED. MULCH SHALL BE OF THE SAME KIND AND TYPE AS APPROVED BY ENGINEER FOR ORIGINAL PROJECT INSTALLATION.</i>
DISEASE AND INSECT CONTROL	<i>INSPECT ALL PALMS, TREES AND SHRUBS FOR INFESTATION ON AN EVERY MONTH BASIS FOR INSECT, GRUBS, MITES, FUNGUS, MOLD, ETC., AND APPLY INSECTICIDES AND PESTICIDES AS NEEDED PER MANUFACTURER'S SPECIFICATIONS. ALL MATERIALS AND PERFORMANCE OF WORK SHALL MEET STATE AND FEDERAL HEALTH AND SAFETY LAWS. IF TREES SHRUBS AND PALMS REQUIRE PESTICIDE, THEY SHALL BE APPLIED BY A LICENSED CHEMICAL APPLICATOR UNDER THE SUPERVISION OF THE CONTRACTOR.</i>
LITTER CONTROL	<i>REMOVE LITTER ON A TRI-MONTHLY BASIS - FROM PLANTING BEDS AND TREE RINGS.</i>

REVISIONS				CORE	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TECHNICAL MAINTENANCE PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		LD-28
				SR 400	HILLSBOROUGH	258415-2-52-01			



**TERRA
TECTONICS**
design group international, inc.
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TAMPA, FLORIDA 33606
LIC 000254
813 252-4604 tx.
813 268-4604 ph.
LANDSCAPE ARCHITECTS LAND PLANNERS URBAN DESIGNERS
JONATHAN H. TONER, ASLA FLO001123

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INDEX OF STRUCTURE PLANS

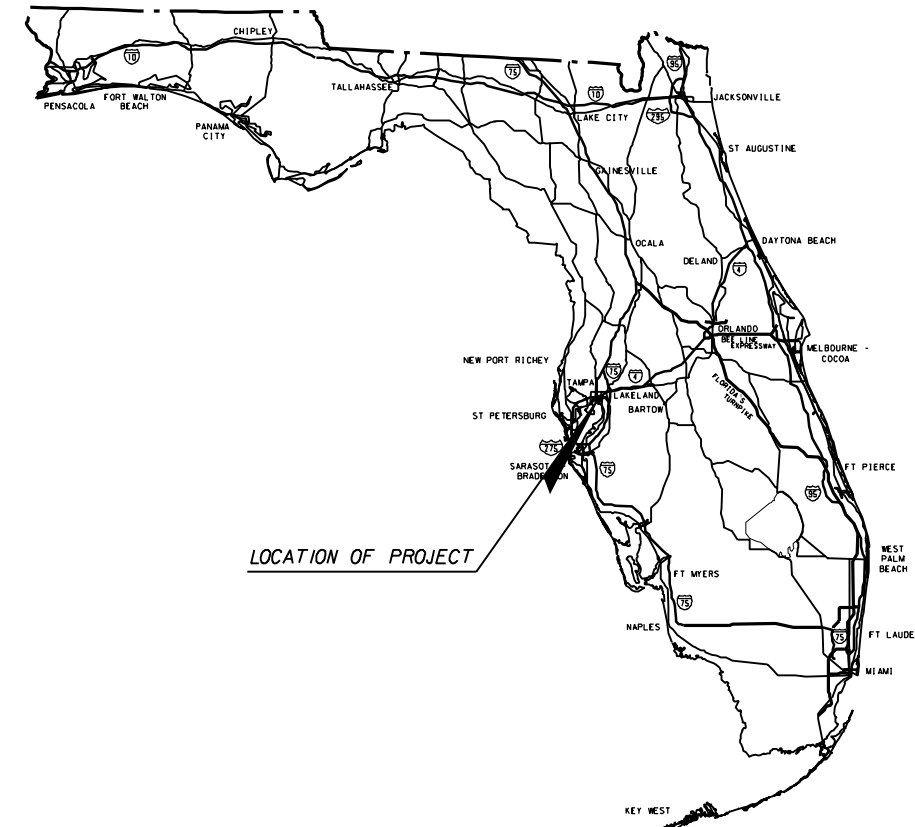
SHEET NO.	SHEET DESCRIPTION
B SET	GENERAL SHEETS
B1 SET	RAMP B OVER 26TH ST.
B2 SET	RAMP C OVER 26TH ST.
BX SET	EXISTING BRIDGE I-4 OVER CSX

FOR WALLS W-1 TO W4 AND CRITICAL TEMPORARY SHEET PILE WALLS T-1 TO T-4, SEE CONTRACT PLANS FOR THE ALTERNATE TO BE BID.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 258415-2-52-01
CORE
(FEDERAL FUNDS)
HILLSBOROUGH COUNTY (10190)
STATE ROAD NO. 400 (I-4)
I-4 / LEE ROY SELMON EXPRESSWAY INTERCHANGE
(NORTH OF 7th AVE.)



STRUCTURES PLANS
FLORIDA U-54 BEAM INTERIM

REVISIONS

STRUCTURE SHOP DRAWINGS
TO BE SUBMITTED TO:

PB AMERICAS, INC.
VICTOR RYZHIKOV, P.E.
5405 WEST CYPRESS ST.
SUITE 300
TAMPA, FLORIDA 33607
(813) 289-5300

PLANS PREPARED BY:



BRIDGE CONCEPTS, INC.
15100 HUTCHINSON ROAD.
SUITE 105
TAMPA, FL. 33625
(813) 265-4474
VENDOR NUMBER 06-1700357001
CONTRACT NUMBER: C-5068
ENGINEERING BUSINESS NUMBER: EB00009765
CERT. OF AUTH. NO. 9765

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED BY REPRODUCTION.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

STRUCTURE PLANS
ENGINEER OF RECORD: PAUL R. STEIJLEN, P.E.

DATE:
P.E. NO.: 44780

FDOT PROJECT MANAGER : ADAM S. PEREZ, P.E.

FISCAL YEAR	SHEET NO.
10	B-1

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INDEX OF DRAWINGS

COMMON TO ALL RAMPS

- B-1 KEY SHEET
- B-2 INDEX OF SHEETS
- B-3 PARTIAL SUMMARY OF PAY ITEMS
- B-4 GENERAL NOTES (1 OF 2)
- B-5 GENERAL NOTES (2 OF 2)
- B-6 DRILLED SHAFT DETAILS (1 OF 2)
- B-7 DRILLED SHAFT DETAILS (2 OF 2)

EXISTING BRIDGE PLANS

BX-1 TO BX-8 I-4 WB OVER CSX (BRIDGE 100157)

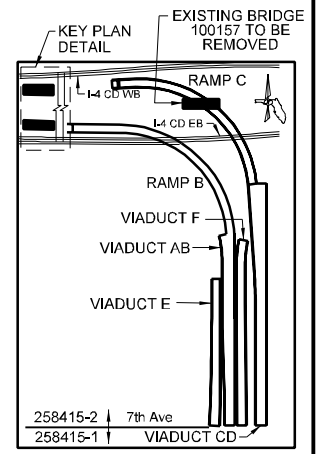
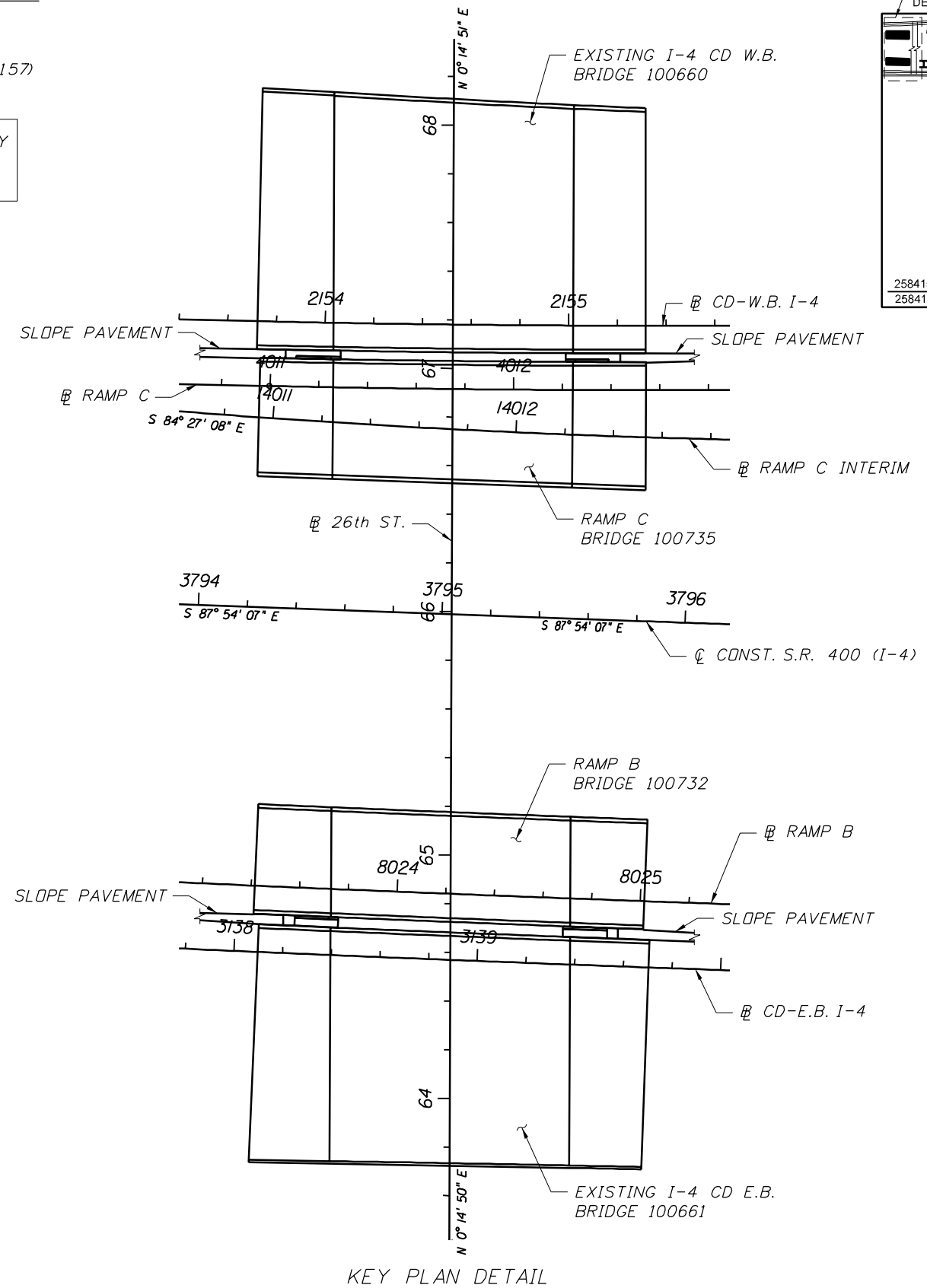
FOR WALLS W-1 TO W4 AND CRITICAL TEMPORARY SHEET PILE WALLS T-1 TO T-4, SEE CONTRACT PLANS FOR THE ALTERNATE TO BE BID.

RAMP B OVER 26TH ST. (BRIDGE No. 100732)

- B1-1 PLAN AND ELEVATION
- B1-2 REPORT OF CORE BORINGS (1 OF 2)
- B1-3 REPORT OF CORE BORINGS (2 OF 2)
- B1-4 FOUNDATION LAYOUT
- B1-5 END BENT 1
- B1-6 END BENT 2
- B1-7 END BENT DETAILS (1 OF 2)
- B1-8 END BENT DETAILS (2 OF 2)
- B1-9 FLORIDA U-BEAM TABLE OF BEAM VARIABLES
- B1-10 BUILD-UP & DEFLECTION TABLE
- B1-11 FINISH GRADE ELEVATIONS
- B1-12 SUPERSTRUCTURE PLAN
- B1-13 SUPERSTRUCTURE DETAILS
- B1-14 DIAPHRAGM DETAILS
- B1-15 APPROACH SLAB 1
- B1-16 APPROACH SLAB 2
- B1-17 STAY-IN-PLACE METAL FORM DETAILS
- B1-18 BEARING REPLACEMENT
- B1-19 NEOPRENE BEARING PADS
- B1-20 SLOPE PAVEMENT DETAILS
- B1-21 REINFORCING BAR LIST (1 OF 2)
- B1-22 REINFORCING BAR LIST (2 OF 2)
- B1-23 LOAD RATING CHARTS

RAMP C OVER 26TH ST. (BRIDGE No. 100735)

- B2-1 PLAN AND ELEVATION
- B2-2 REPORT OF CORE BORINGS (1 OF 2)
- B2-3 REPORT OF CORE BORINGS (2 OF 2)
- B2-4 FOUNDATION LAYOUT
- B2-5 END BENT 1
- B2-6 END BENT 2
- B2-7 END BENT DETAILS (1 OF 2)
- B2-8 END BENT DETAILS (2 OF 2)
- B2-9 FLORIDA U-BEAM TABLE OF BEAM VARIABLES
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- B2-12 SUPERSTRUCTURE PLAN
- B2-13 SUPERSTRUCTURE DETAILS
- B2-14 DIAPHRAGM DETAILS
- B2-15 APPROACH SLAB 1
- B2-16 APPROACH SLAB 2
- B2-17 STAY-IN-PLACE METAL FORM DETAILS
- B2-18 BEARING REPLACEMENT
- B2-19 NEOPRENE BEARING PADS
- B2-20 SLOPE PAVEMENT DETAILS
- B2-21 REINFORCING BAR LIST (1 OF 2)
- B2-22 REINFORCING BAR LIST (2 OF 2)
- B2-23 LOAD RATING CHARTS



KEY PLAN

KEY PLAN DETAIL

BRIDGE NO. 100732
BRIDGE NO. 100735

REVISIONS						ENGINEER OF RECORD		SHEET TITLE											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	INDEX OF SHEETS											
						DRAWN BY	PDB 3/09	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">FLORIDA DEPARTMENT OF TRANSPORTATION</td> </tr> <tr> <td>ROAD NO.</td> <td>COUNTY</td> <td>FINANCIAL PROJECT ID</td> </tr> <tr> <td>SR 400</td> <td>HILLSBOROUGH</td> <td>258415-2-52-01</td> </tr> </table>			FLORIDA DEPARTMENT OF TRANSPORTATION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	HILLSBOROUGH	258415-2-52-01
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I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE		B-2																	
						APPROVED BY	PAUL R. STEIJLEN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3" style="text-align: center;">CORE</td> </tr> </table>			CORE								
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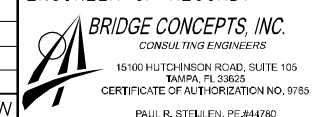
BRIDGE CONCEPTS, INC.
CONSULTING ENGINEERS
15100 HUTCHINSON ROAD, SUITE 105
TAMPA, FL 33625
CERTIFICATE OF AUTHORIZATION NO. 9785
PAUL R. STEIJLEN, PE #44780

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

SUMMARY OF STRUCTURES - PAY ITEMS				
ITEM NUMBER	ITEM DESCRIPTION	UNIT	RAMP B BR # 100732	RAMP C BR # 100735
110 3	REMOVAL OF EXISTING STRUCTURES	LS	1	-
400 2 10	CONCRETE CLASS II (APPROACH SLAB)	CY	103.3	113.7
400 4 4	CONCRETE CLASS IV (SUPERSTRUCTURE)	CY	126.8	141.3
400 4 5	CONCRETE CLASS IV (SUBSTRUCTURE)	CY	78.2	86.4
400 9	BRIDGE DECK GROOVING & PLANING (DECK 8.5" OR GREATER)	SY	745	833
400 147	COMPOSITE NEOPRENE PADS	CF	4	6
415 1 4	REINFORCING STEEL (SUPERSTRUCTURE)	LB	31,174	34,266
415 1 5	REINFORCING STEEL (SUBSTRUCTURE)	LB	17,393	27,261
415 1 9	REINFORCING STEEL (APPROACH SLAB)	LB	18,411	23,196
450 4 2	PRESTRESSED BEAM - FL U-BEAM 54"	LF	295	393
455 88 3	DRILLED SHAFT (36" DIA.)	LF	385	464
455 111	CORE/PILOT HOLE - DRILLED SHAFT EXCAVATION	LF	336	390
455 122 3	UNCLASSIFIED SHAFT EXCAVATION (36" DIA.)	LF	282	336
455 133 2	SHEET PILING STEEL (TEMPORARY-CRITICAL)	SF	4728	9416
455 142	CROSSHOLE SONIC LOGGING	EA	1	1
459 71	PILES, POLYETHYLENE SHEETING	SY	216	268
521 5 1	CONCRETE TRAFFIC RAILING BARRIER BRIDGE (32" F-SHAPE)	LF	319	317
524 2 2	CONCRETE SLOPE PAVEMENT (NON-REINFORCED) (4")	SY	75	72

BRIDGE NO. 100732
BRIDGE NO. 100735

REVISIONS						ENGINEER OF RECORD			SHEET TITLE			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						DRAWN BY	PDB 3/09	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	B-3
						CHECKED BY	PRS 3/09					
						DESIGNED BY	IRR 3/09					
						CHECKED BY	PRS 3/09					
						APPROVED BY	PAUL R. STEIJLEN					



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GENERAL NOTES

A. STANDARD SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 EDITION, AS AMENDED BY CONTRACT DOCUMENTS.

B. DESIGN SPECIFICATIONS:

FDOT STRUCTURES MANUAL (JANUARY 2007)

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), LRFD BRIDGE DESIGN SPECIFICATIONS THIRD EDITION (2004) AND 2005 INTERIM SPECIFICATIONS EXCLUDING SECTION 6 AND 2006 INTERIM REVISIONS EXCLUDING SECTION 6.

C. DESIGN METHOD:

LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD).

D. DESIGN LOADING:

1. OPERATIONAL IMPORTANCE FACTOR:

1.0 IN ACCORDANCE WITH THE FDOT STRUCTURES DESIGN GUIDELINES

2. DEAD LOADS:

UNIT WEIGHT OF REINFORCED CONCRETE (INCLUDING REINFORCEMENT):.....150 PCF

ALLOW 1/2" SACRIFICIAL DECK THICKNESS FOR GRINDING AND GROOVING

DESIGN ALLOWANCE FOR STAY-IN-PLACE METAL FORMS OVER PROJECTED PLAN AREA OF FORMS. THIS LOAD INCLUDES THE UNIT WEIGHT OF METAL FORMS AND CONCRETE REQUIRED TO FILL THE FORM FLUTES. STAY-IN-PLACE FORMS SHALL NOT BE ALLOWED FOR CANTILEVER DECK:.....20 PSF

TRAFFIC RAILING BARRIER (32" F SHAPE):.....421 PLF EACH

3. LIVE LOADS: HL-93 LOADING

4. WIND LOADS:

WIND LOADS ARE IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 3.8 AND STRUCTURES DESIGN GUIDELINES SECTION 2.4

5. EARTHQUAKE LOADS:

EARTHQUAKE PROVISIONS ARE IN ACCORDANCE WITH SECTION 2.3 OF THE "STRUCTURES DESIGN GUIDELINES".

6. TEMPERATURE EFFECTS:

STRUCTURAL MATERIAL	TEMPERATURE (°F)				COEFFICIENT OF THERMAL EXPANSION
	MEAN	HIGH	LOW	RANGE	
CONCRETE DECK ON CONCRETE GIRDERS	70	+105	+35	70	0.000006

E. DISTRIBUTION VALUES (LANES/GIRDER):

LIVE LOAD DISTRIBUTION IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 4.6.2.2.

F. DIMENSIONS:

ALL DIMENSIONS IN THESE PLANS ARE MEASURED EITHER HORIZONTALY OR VERTICALLY UNLESS OTHERWISE NOTED.

G. ENVIRONMENT:

SUPERSTRUCTURE - SLIGHTLY AGGRESSIVE
SUBSTRUCTURE - AS FOLLOWS:
RAMP B OVER 26TH ST. - SLIGHTLY AGGRESSIVE
RAMP C OVER 26TH ST. - MODERATELY AGGRESSIVE

H. MATERIALS:

1. CONCRETE:

CLASS	LOCATION IN STRUCTURE	MINIMUM 28 DAY COMPRESSION STRENGTH (PSI)
II	BARRIERS	3400
II (BRIDGE DECK)	APPROACH SLABS	4500
IV	CAST-IN-PLACE SUPERSTRUCTURE	5500
IV	CAST-IN-PLACE SUBSTRUCTURE	5500
IV (DRILLED SHAFTS)	DRILLED SHAFTS	4000
VI	PRECAST PRESTRESSED U-BEAMS	8500

NOTE: CONCRETE SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATION SECTION 346.

2. REINFORCING STEEL:

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCEMENT ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO THE FACE OF CONCRETE OR OTHER SURFACES

3. PRESTRESSING STRANDS:

STRANDS SHALL MEET THE REQUIREMENTS OF ASTM A416, GRADE 270, LOW-RELAXATION.

I. CONCRETE COVER:

UNLESS NOTED OTHERWISE, CONCRETE COVER SHALL CONFORM TO THE FOLLOWING:

SUPERSTRUCTURE (CAST-IN-PLACE) TOP OF DECK - ALL BRIDGES	2 1/2"
SUPERSTRUCTURE (CAST-IN-PLACE) EXCEPT TOP OF DECK - ALL BRIDGES	2"
SUBSTRUCTURE (CAST-IN-PLACE) - ALL BRIDGES	
END BENT CAPS CAST AGAINST EARTH	4 1/2"
END BENT CAPS FORMED SURFACES	4"
PIER COLUMN	4"
PIER COLUMN CAP	4"
PIER FOOTING CAP FORMED SURFACES	4"
PIER FOOTING CAP CAST AGAINST EARTH OR SURFACES IN WATER	4 1/2"
DRILLED SHAFTS	6"
SUBSTRUCTURE (TOP OF GIRDER PEDESTALS)	2"
PRECAST PRESTRESSED BEAMS	2"

NOTE: CONCRETE COVERS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE SPECIFICATIONS FOR ALLOWABLE TOLERANCES.

J. SCREEDING DECK SLABS:

SCREED THE RIDING SURFACE OF THE BRIDGE DECK AND APPROACH SLABS TO ACHIEVE THE FINISH GRADE ELEVATIONS SHOWN IN THE PLANS. ACCOUNT FOR THEORETICAL DEFLECTIONS DUE TO DECK SELF WEIGHT, DECK CASTING SEQUENCE, DECK FORMING SYSTEMS, CONSTRUCTION LOADS, AND TEMPORARY SHORING, ETC. AS REQUIRED.

K. PHASING OF WORK:

WORK PHASING AND PROGRESSION OF THE WORK SHALL CONFORM WITH THE TRAFFIC CONTROL PLANS LOCATED IN THE ROADWAY PLANS AND THE NOTES ON THE CONSTRUCTION SEQUENCE DRAWINGS.

L. CONSTRUCTION OVER TRAFFIC:

ACTIVITIES NOT ALLOWED OVER TRAFFIC SHALL INCLUDE GIRDER ERECTION, PLACEMENT/REMOVAL OF DECK FORMS, CASTING OF DECK CONCRETE AND RAILING CONSTRUCTION WHEN RAILING IS LOCATED AT THE EDGE OF DECK.

M. CONSTRUCTION JOINTS IN CONCRETE:

CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED ON PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE WRITTEN APPROVAL OF THE ENGINEER.

BRIDGE NO. 100732
BRIDGE NO. 100735

REVISIONS						ENGINEER OF RECORD			SHEET TITLE				
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NAME		
						DRAWN BY	PDB	3/09	CORE			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						CHECKED BY	PRS	3/09	SR 400				B-4
						DESIGNED BY	IRR	3/09	HILLSBOROUGH				
						CHECKED BY	PRS	3/09	258415-2-52-01				
						APPROVED BY	PAUL R. STEIJLEN		FINANCIAL PROJECT ID				



N. SURFACE FINISH:

THE FOLLOWING SURFACES, ON NEW STRUCTURES SHALL RECEIVE A STAINING/SEALING FINISH. THE FINISH SHALL BE APPLIED IN ACCORDANCE WITH THE TECHNICAL SPECIAL PROVISION FOR CONCRETE STAIN/SEALER.

THE FOLLOWING SURFACES SHALL BE TREATED:

- ALL EXPOSED SURFACES OF END BENTS EXCEPT TOP OF END BENT CAPS.
- OUTSIDE SURFACES OF CHEEKWALLS AND WINGWALLS.
- THE VERTICAL EDGE AND UNDERNEATH SURFACES OF DECK SLAB OVERHANG.
- THE INSIDE AND OUTSIDE FACES AND TOP OF TRAFFIC RAILING BARRIERS ON BRIDGE AND APPROACH SLABS.
- EXPOSED SURFACES OF SLOPE PAVEMENT

EXTERIOR AND BOTTOM SURFACES OF EXTERIOR CONCRETE BEAMS AS SHOWN IN FIGURES, SHALL RECEIVE A STAINING/SEALING FINISH USING GLIDDEN PRODUCT NUMBER, 80YR27/530 (MOLTEN BRONZE, GLOSSY FINISH) OR APPROVED EQUAL. CONTRACTOR SHALL SUBMIT A COLOR SAMPLE TO VERIFY THE MATCHING OF THE BEAM COLOR FOR THE EXISTING I-4 BRIDGES OVER 26TH STREET.

D. ELEVATIONS:

ALL ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.

P. UTILITIES:

LOCATION OF UTILITIES, INCLUDING UNDER DECK LIGHTING, SHOWN IN THE BRIDGE PLANS ARE AT APPROXIMATE LOCATIONS. SEE ROADWAY PLANS FOR VERIFICATION OF THE LOCATION OF THE EXISTING UTILITIES SHOWN ON THE BRIDGE PLANS AND FOR ADDITIONAL DETAILS OF PROPOSED UTILITIES TO BE SUPPORTED ON STRUCTURES. THE CONTRACTOR SHALL NOTIFY ALL INVOLVED UTILITY COMPANIES AND VERIFY EXACT LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION (INCLUDING DRILLED SHAFTS) AND SHALL BE RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS MAY BE NECESSARY TO AVOID DAMAGE. ANY REQUIRED RELOCATION OF EXISTING UTILITIES SHALL BE DONE BY OTHERS. CONTRACTOR SHALL ENSURE THAT ACTIVE UTILITIES WITHIN THE PROJECT LIMITS ARE PROPERLY MAINTAINED DURING CONSTRUCTION.

Q. EXISTING STRUCTURES:

EXISTING STRUCTURE LOCATIONS AND DIMENSIONS (SPAN LENGTHS, ANGLES, DISTANCES, ELEVATIONS, ETC.) SHOWN ON THE PLANS ARE BASED ON SURVEY INFORMATION AND EXISTING BRIDGE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF EXISTING STRUCTURE LOCATIONS AND DIMENSIONS PRIOR TO COMMENCING THE WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO STARTING WORK OR ORDERING MATERIAL. WORK AND ORDERING OF MATERIAL SHALL PROCEED ONLY AFTER AUTHORIZATION FROM ENGINEER IS OBTAINED.

R. PRESTRESSED BEAM ERECTION NOTES:

1. THE CONTRACTOR SHALL SUBMIT A SIGNED AND SEAL ERECTION PLAN PREPARED BY SPECIALTY ENGINEER. THE ERECTION PLAN SHALL INCLUDE THE FOLLOWING ITEMS:

A. THE METHOD FOR HANDLING THE GIRDERS SUCH THAT SWEEP DOES NOT EXCEED THE LIMIT INDICATED IN THE STANDARD SPECIFICATIONS. SUCH SWEEP SHALL BE MEASURED AT THE PRECAST PLANT AND AT ANY TIME BEFORE THE DECK CONCRETE IS PLACED.

B. THE METHOD FOR MAINTAINING THE GIRDER ENDS AT THE BEARINGS IN VERTICAL PLUMB POSITION AT ALL TIMES.

C. REQUIRED BRACING PLAN TO ENSURE GIRDERS WOULD NOT HAVE OUT-OF-PLANE DEFORMATIONS IN EXCESS OF THE MAXIMUM TOLERANCE LIMITS INDICATED IN THE STANDARD SPECIFICATIONS.

S. BRIDGE NAME:

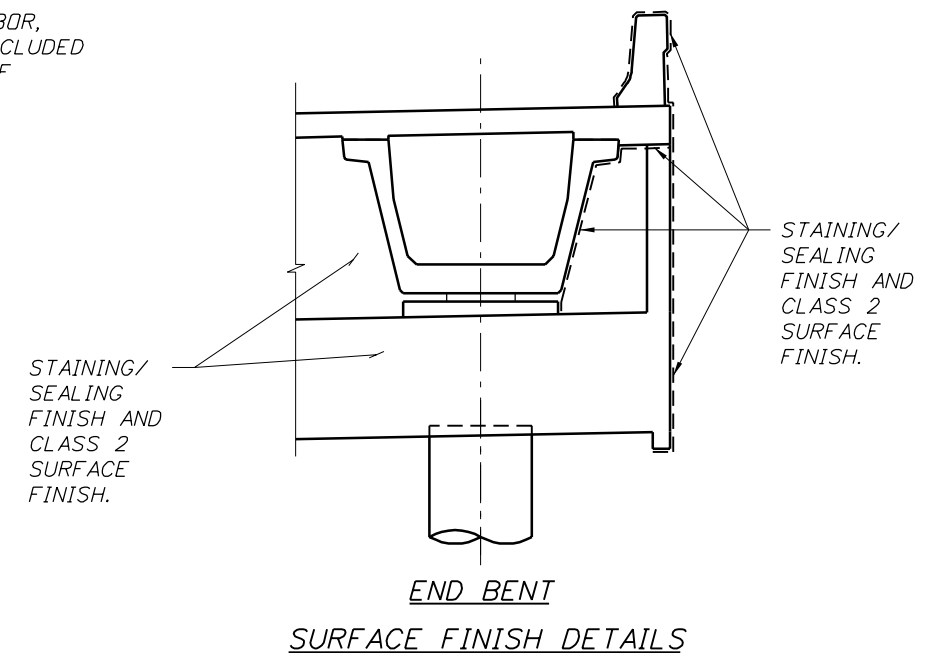
BRIDGE NUMBER 100732 IS RAMP B OVER 26TH STREET.
BRIDGE NUMBER 100735 IS RAMP C OVER 26TH STREET.

PAY ITEM NOTES:

1. FOR SUMMARY OF BRIDGE PAY ITEMS SEE ROADWAY PLANS.
2. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT PRICES FOR THE BID ITEMS.
3. PAY ITEM 400-9 INCLUDES 745 SY & 833 SY FOR RAMP B & RAMP C RESPECTIVELY OF BRIDGE DECK GROOVING & PLANING. THIS AREA INCLUDES THE CONCRETE PORTIONS OF APPROACH SLABS.
4. THE COST FOR ALL CONDUIT, PULL BOXES EXPANSION DEVICES AND INSTALLATION SHALL BE INCLUDED IN THE PAY ITEM IN WHICH THEY ARE EMBEDDED. SEE LIGHTING PLANS FOR ADDITIONAL LIGHTING PAY ITEMS.
5. THE COST FOR CLASS 2 SURFACE FINISH WITH STAINING AND SEALING SHALL BE INCLUDED IN THE PAY ITEM OF THE CONCRETE TO WHICH IT IS APPLIED.
6. PAY ITEM 110-3 INCLUDES THE REMOVAL OF THE FOLLOWING APPROXIMATE PLAN AREA OF EXISTING STRUCTURE: 5474 SQUARE FEET - BRIDGE NO. 100157 - STRUCTURE "N" OVER CSX RAILROAD. STRUCTURE REMOVAL IS MEASURED BETWEEN FRONT FACE OF BACKWALL FROM END BENT AT BEGIN BRIDGE TO END BENT AT END BRIDGE. PAY ITEM 110-3 INCLUDES THE REMOVAL OF ALL SUPERSTRUCTURE COMPONENTS, INCLUDING BUT NOT LIMITED TO APPROACH SLAB, PIERS, FOOTINGS, WING WALLS, CAPS, SLOPE PROTECTION AND REMOVAL AND/OR CUT OFF OF EXISTING PILES, AS SPECIFIED. ALL DEMOLITION ACTIVITIES INCLUDING METHODS, MATERIALS, LABOR, WORK ZONE PROTECTION, EQUIPMENT AND DISPOSAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAY ITEM 110-3, REMOVAL OF EXISTING STRUCTURE.

ABBREVIATIONS

- @ - BASELINE
- BOT - BOTTOM
- C - CENTERLINE
- CLR - CLEAR
- CY - CUBIC YARD
- Ø - DIAMETER
- EB - END BENT
- EF - EACH FACE
- EL - ELEVATION
- EXP - EXPANSION
- FF - FAR FACE
- FFBW - FRONT FACE OF BACKWALL
- FFRW - FRONT FACE OF RETAINING WALL
- FT - FOOT
- IN - INCHES
- JT - JOINT
- LB - POUNDS
- LF - LINEAR FEET
- MAX - MAXIMUM
- MHW - MEAN HIGH WATER
- MIN - MINIMUM
- N/A - NOT APPLICABLE
- NF - NEAR FACE
- NTS - NOT TO SCALE
- PGL - PROFILE GRADE LINE
- SIP - STAY-IN-PLACE
- SPA - SPACING
- STA - STATION
- TC - TANGENT TO CURVE
- TYP - TYPICAL
- UNO - UNLESS NOTED OTHERWISE

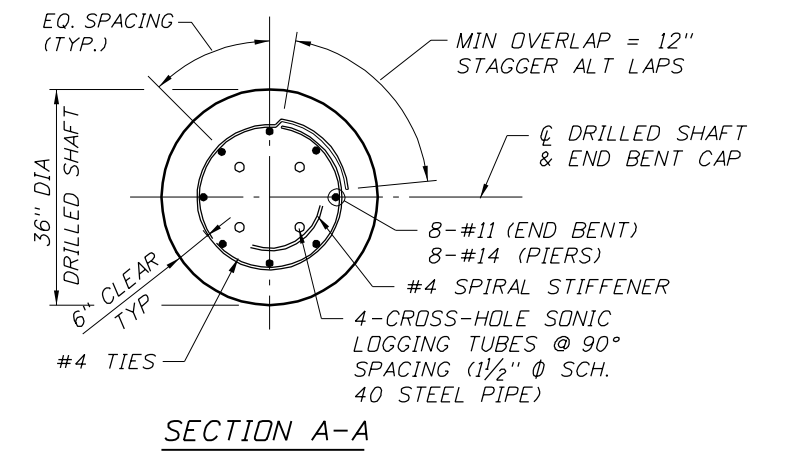
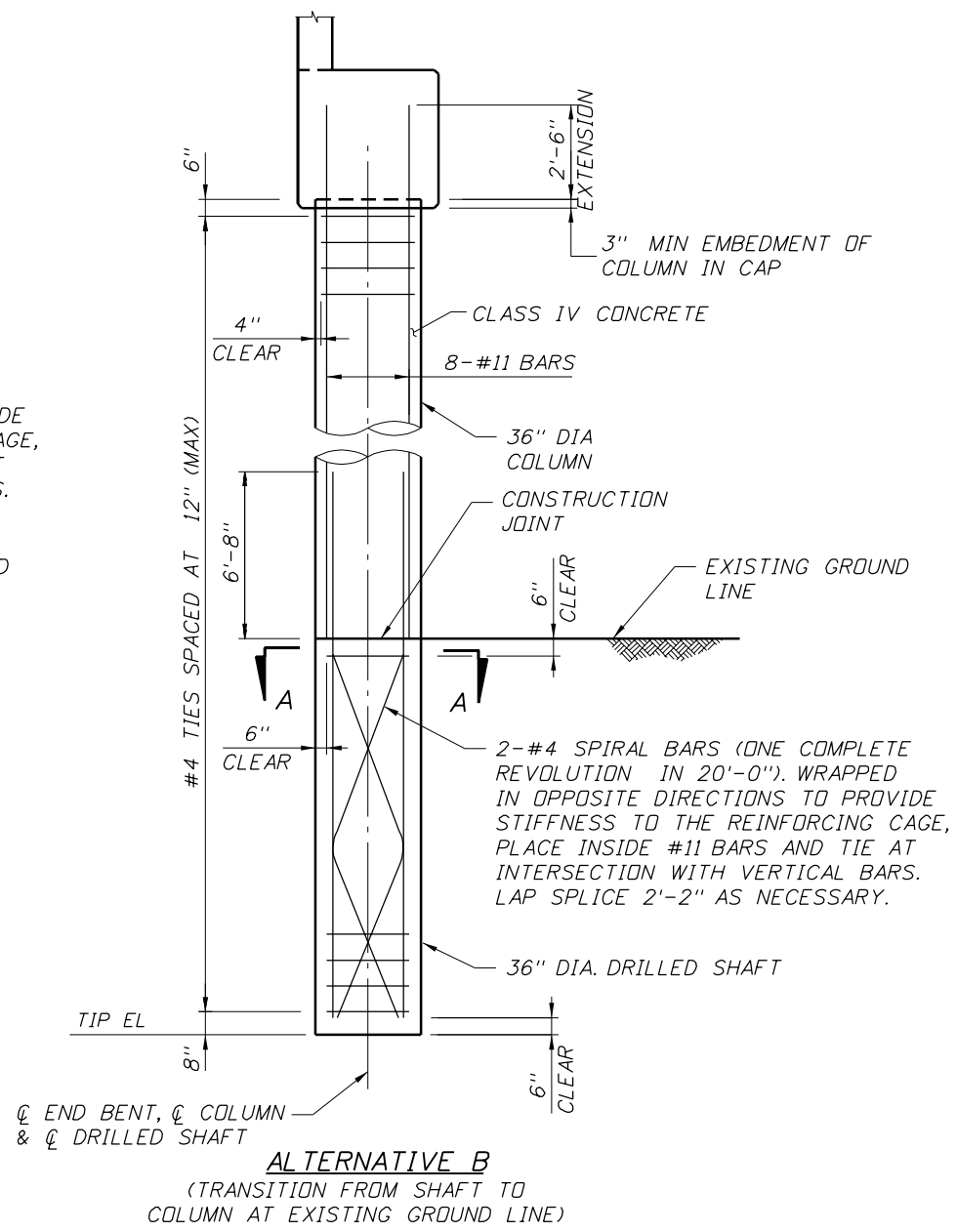
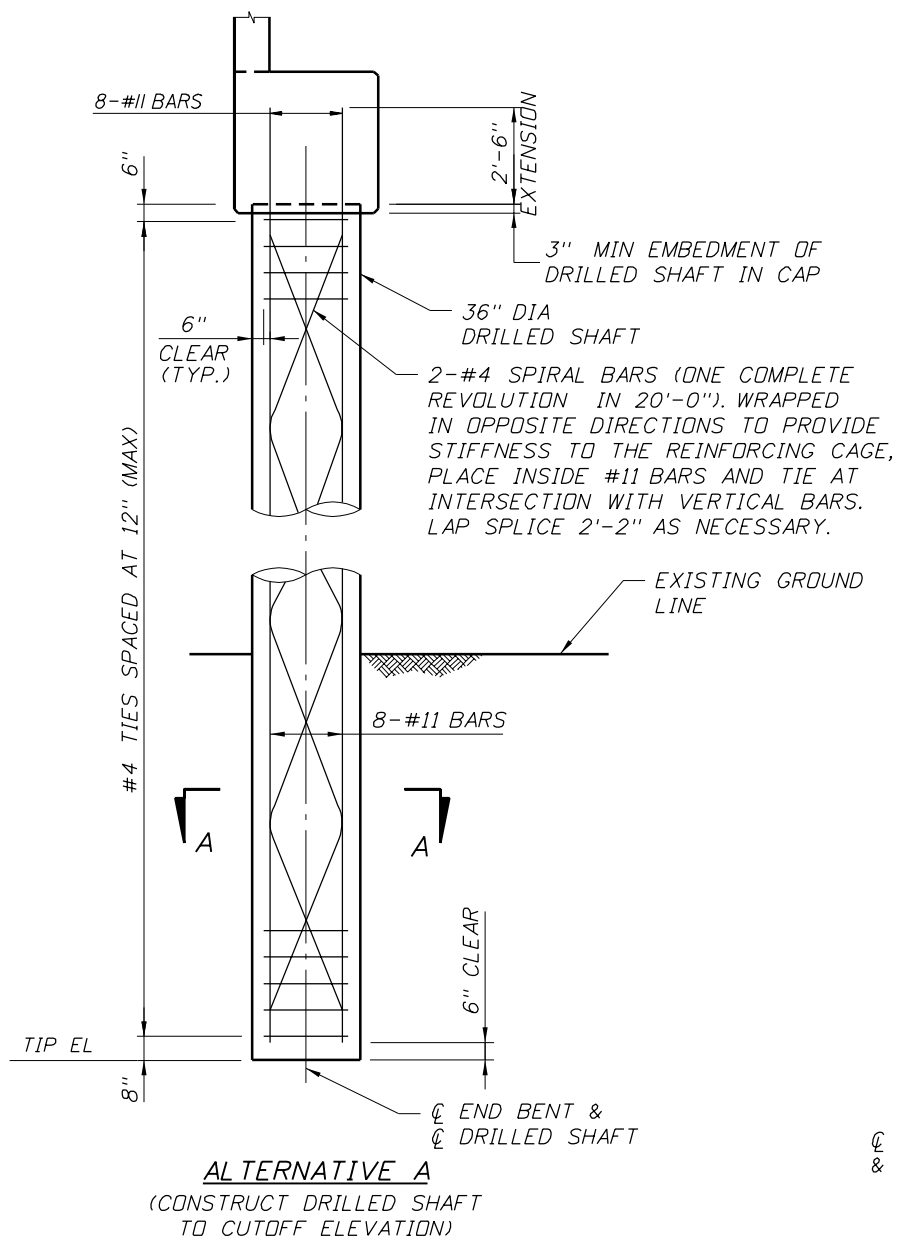


CORE			BRIDGE NO. 100732 BRIDGE NO. 100735
FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: GENERAL NOTES (2 OF 2)
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:
SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE
			SHEET NO. B-5

REVISIONS						ENGINEER OF RECORD:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES
						PDB	3/09
						PRS	3/09
						IRR	3/09
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						PAUL R. STEIJLEN	

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TAMPA, FL 33625
CERTIFICATE OF AUTHORIZATION NO. 9769
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- NOTES:
1. PAYMENT FOR DRILLED SHAFTS AT END BENTS TO BE MADE UNDER ITEM 455-88-3: QUANTITY WILL BE FROM THE TIP ELEVATION OF THE SHAFT TO TOP OF THE SHAFT OR TOP OF THE COLUMN, AS APPLICABLE.
 2. NO ADDITIONAL PAYMENT WILL BE MADE IF THE CONTRACTOR ELECTS TO CONSTRUCT THE ALTERNATIVE B DETAIL.
 3. WORK THIS SHEET WITH SHEET B-7.

DRILLED SHAFTS AT END BENTS

BRIDGE NO. 100732
BRIDGE NO. 100735

REVISIONS						ENGINEER OF RECORD			SHEET TITLE			
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						DRAWN BY	PDB 3/09	FLORIDA DEPARTMENT OF TRANSPORTATION SR 400 HILLSBOROUGH 258415-2-52-01 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	DRILLED SHAFT DETAILS (1 OF 2)			B-6
					CHECKED BY	PRS 3/09						
					DESIGNED BY	IRR 3/09						
					CHECKED BY	PRS 3/09						
					APPROVED BY	PAUL R. STEIJLEN						

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DRILLED SHAFT GENERAL NOTES

1. THE DRILLED SHAFTS SHALL BE INSTALLED TO MEET THE CRITERIA SET FORTH IN THE DRILLED SHAFT DATA TABLE SHOWN ON THE BRIDGE PLAN SHEETS.
2. MINIMUM TIP ELEVATION IS REQUIRED TO SATISFY LATERAL STABILITY ONLY.
3. ANY REVISIONS MADE TO THE TIP ELEVATION SHALL BE SUBMITTED BY THE ENGINEER OF RECORD, AND CONCURRED WITH BY THE DEPARTMENT.
4. ROCK SOCKET MATERIALS SHALL HAVE SPT N-VALUES GREATER THAN 30 BLOWS PER FOOT AND MAY CONSIST OF COMPLETELY WEATHERED LIMESTONE (CALCAREOUS CLAY) TO SLIGHTLY WEATHERED LIMESTONE.
5. EACH DRILLED SHAFT CONTRACTOR SHALL PERFORM ONE TEST HOLE FOR EACH SHAFT SIZE PROPOSED TO BE COMPLETED BY THE RESPECTIVE DRILLED SHAFT CONTRACTOR. TEST HOLES SHALL BE EXCAVATED TO THE DEEPEST SHAFT TIP IN THE PLANS AND BE LOCATED AT LEAST THREE SHAFT DIAMETERS FROM THE NEAREST PERMANENT SHAFT AT A LOCATION APPROVED BY THE ENGINEER. TEST HOLES SHALL BE PERFORMED PRIOR TO INSTALLATION OF ANY PRODUCTION SHAFTS FOR BRIDGE FOUNDATION ON THIS PROJECT. THE TEST HOLE SHALL BE CONSTRUCTED AS INDICATED IN SECTION 455-18.
6. PILOT HOLE BORINGS WITH STANDARD PENETRATION TEST (SPT) BORINGS SUBSTITUTED FOR CORING ARE REQUIRED AT ALL SHAFT LOCATIONS. PERFORM THE SPT BORINGS IN ACCORDANCE WITH ASTM 1586 EXCEPT AS NOTED HEREIN USING AN AUTOMATIC HAMMER ONLY. PERFORM SPT SAMPLING AND TESTING FOR EACH BORING ON TWO AND A HALF FOOT CENTERS TO A MINIMUM DEPTH OF 15 FEET BELOW THE DRILLED SHAFT TIP ELEVATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT THE FIELD LOGS OF PILOT HOLE BORINGS AND SOIL SAMPLES TO THE DEPARTMENT WITHIN TWO WORKING DAYS AFTER COMPLETING THE PILOT HOLE BORINGS.
7. THE TIP ELEVATION OF THE DRILLED SHAFT WHERE PILOT HOLES ARE REQUIRED MAY BE CHANGED BASED ON THE RESULTS OF THE PILOT HOLE BORINGS. THE DEPARTMENT WILL PROVIDE THE PRODUCTION SHAFT LENGTHS WITHIN 3 DAYS AFTER RECEIVING THE FIELD BORING LOG AND SOIL SAMPLES FROM THE CONTRACTOR. HOWEVER, IF LOOSE OR SOFT SOIL/ROCK CONDITIONS ARE ENCOUNTERED ONE FOOT ABOVE THE PROPOSED SHAFT TIP ELEVATION DURING THE SHAFT EXCAVATION, THE CONTRACTOR SHALL STOP THE SHAFT EXCAVATION AND NOTIFY THE ENGINEER IMMEDIATELY FOR FURTHER DIRECTION.
8. PROVIDE CROSS-HOLE SONIC LOGGING TUBES IN ALL DRILLED SHAFTS INCLUDING TEST HOLE SHAFTS ACCORDING TO SPECIFICATION SECTION 455-16.4. CROSS-HOLE SONIC LOGGING SHALL BE PERFORMED ACCORDING TO SPECIFICATION SECTION 455-17.6.1 ON ALL TEST SHAFTS. IN ADDITION, THE CONTRACTOR SHALL ANTICIPATE PERFORMING CROSS-HOLE SONIC LOGGING ON APPROXIMATELY 10% OF ALL REDUNDANT DRILLED SHAFTS AS SELECTED BY THE ENGINEER.
9. SHAFTS CONSIDERED TO BE NON-REDUNDANT ARE IDENTIFIED IN THE DRILLED SHAFT DATA TABLE SHOWN ON THE BRIDGE PLAN SHEETS. SHAFT INSPECTION DEVICE (SID) SHALL BE USED TO INSPECT THE BOTTOMS OF NON-REDUNDANT DRILLED SHAFTS IN ACCORDANCE WITH SECTION 455-15.11.3. THE COST RELATED TO THE INSPECTION DEVICE SHALL BE INCLUDED IN THE COST OF THE PRODUCTION DRILLED SHAFT.
10. TEMPORARY CASING OR SLURRY MAY BE REQUIRED DURING DRILLED SHAFT CONSTRUCTION. SLURRY AS DESCRIBED IN SPECIFICATION 455-15.8.1, WILL INCLUDE NATURAL MINERAL SLURRY, FORMED FROM WATER AND NATURAL MINERALS IN THE SHAFT EXCAVATION FOR PURPOSE OF THE TIME OF EXCAVATION. CONTRACTOR SHALL ANTICIPATE THE NEED FOR DESANDING EQUIPMENT IF THE SLURRY METHOD IS UTILIZED. THE COST OF TEMPORARY CASING SHALL BE INCLUDED IN THE COST OF DRILLED SHAFTS.
11. IF ANY SHAFT IS CONSTRUCTED USING THE PERMANENT CASING METHOD, THE SHAFT SHALL BE EXCAVATED TO A REVISED TIP ELEVATION APPROVED BY THE ENGINEER. NO COMPENSATION WILL BE PAID FOR PERMANENT CASING. ADDITIONAL SHAFT LENGTH AND EXCAVATION RESULTING FROM THE USE OF PERMANENT CASING SHALL BE PAID FOR UNDER PAY ITEM NO. 455-88.

12. CONCRETE SHALL BE PLACED TO COMPLETE DRILLED SHAFT CONSTRUCTION OF AN OPEN DRILLED SHAFT EXCAVATION PRIOR TO EXCAVATION OF AN ADJACENT DRILLED SHAFT WHEN THE SHAFT CENTER TO CENTER SPACING IS LESS THAN SIX SHAFT DIAMETERS.
13. DRILLED SHAFTS LOCATED AT END BENTS SHALL BE WRAPPED WITH POLYETHYLENE SHEETING IN ACCORDANCE WITH SECTION 459. PAYMENT FOR POLYETHYLENE SHEETING WILL BE MADE UNDER PAY ITEM NO. 459-71.
14. DURING INSTALLATION OF DRILLED SHAFTS HARD CHERT MAY BE ENCOUNTERED. SPECIAL TOOLS AND EQUIPMENT MAY BE REQUIRED AND SHALL BE ANTICIPATED.
15. BASED ON A REVIEW OF THE MAP "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER SYSTEM", WEST-CENTRAL FLORIDA, MAY 2005 PUBLISHED BY USGS, THE POTENTIOMETRIC LEVEL IN THE VICINITY OF THE PROJECT SITE IS APPROXIMATELY 10 TO 20 FEET, NGVD. THE CONTRACTOR'S EQUIPMENT SHALL BE CAPABLE OF HANDLING THIS POTENTIOMETRIC LEVEL.
16. LOCATIONS OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO EXCAVATION OF DRILLED SHAFTS.
17. FOR CONSTRUCTION OF DRILLED SHAFTS LOCATED 9 FEET OR LESS (CLEAR DISTANCE) FROM EXISTING MSE WALLS, OSCILLATION OR OTHER NON-VIBRATORY INSTALLATION AND REMOVAL OF STEEL CASING WILL BE REQUIRED. VIBRATION OF STEEL CASING IS PROHIBITED.
18. CONTAMINATED SOILS WILL BE ENCOUNTERED DURING EXCAVATION. FOR DISPOSAL OF CONTAMINATED MATERIAL DURING SHAFT EXCAVATION REFER TO THE ROADWAY GENERAL NOTES.

ADDITIONAL DRILLED SHAFT NOTES

1. THE CONTRACTOR SHALL SUBMIT PLANS SHOWING METHOD OF CONSTRUCTING THE DRILLED SHAFT FOUNDATION TO THE ENGINEER FOR APPROVAL.
2. BAR EXTENSIONS FOR EMBEDMENT IN SUBSTRUCTURE ARE TO BE INCLUDED IN THE COST OF DRILLED SHAFTS.
3. FOR ELEVATIONS AT TIP OF DRILLED SHAFTS AND FOR ADDITIONAL NOTES, SEE THE FOUNDATION LAYOUT SHEETS IN THE INDIVIDUAL BRIDGE PLANS. FOR ELEVATIONS AT TOP OF SHAFT, SEE END BENT SHEETS.
4. ALL DRILLED SHAFTS SHALL BE CONSTRUCTED PLUMB.
5. DRILLED SHAFTS WITHIN THE PROPRIETARY WALL VOLUME SHALL BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF THE WALLS. PROPRIETARY WALL STRAPS/MESH SHALL BE PLACED TO AVOID CONFLICT WITH THE DRILLED SHAFTS.
6. CONTRACTOR SHALL USE TEMPLATE FOR THE PLACEMENT OF THE REBAR CAGE.
7. ADDITIONAL REINFORCING STEEL MAY BE PROVIDED AT THE TOP AND BOTTOM OF THE DRILLED SHAFT FOR HANDLING PURPOSES. THE COST OF THE ADDITIONAL REINFORCING STEEL SHALL BE INCIDENTAL TO THE COST OF THE DRILLED SHAFT.
8. THE REQUIRED LAP SPLICE LENGTH FOR #11 BARS IS 6'-8". NO MORE THAN HALF THE BARS MAY BE SPLICED AT A SINGLE LOCATION WITHIN THE LIMITS OF THE DRILLED SHAFT.

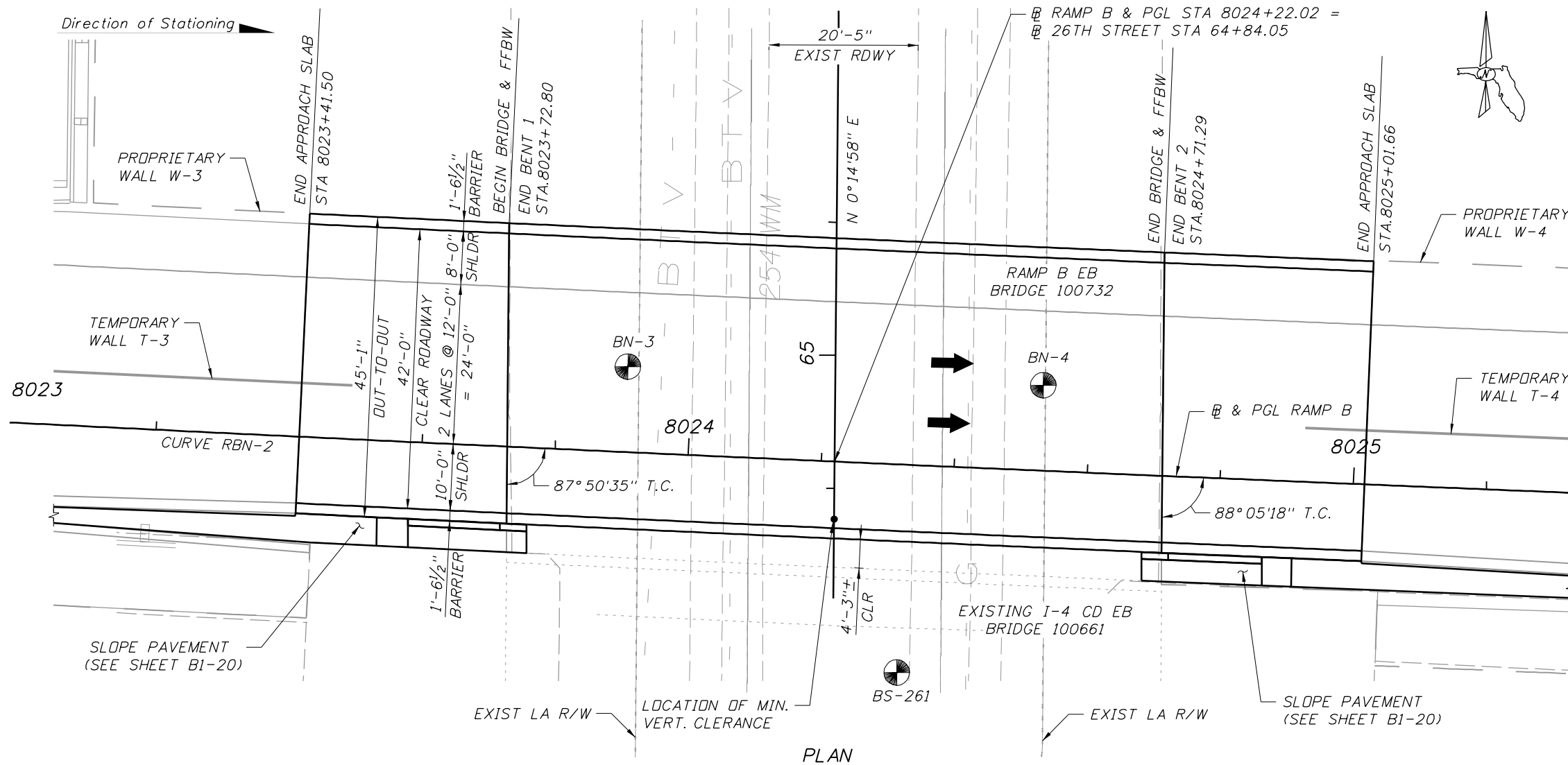
NOTES

1. WORK THIS SHEET WITH SHEET B-6.

BRIDGE NO. 100732
BRIDGE NO. 100735

REVISIONS						ENGINEER OF RECORD		CORE			SHEET TITLE		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			DRILLED SHAFT DETAILS (2 OF 2)		
						DRAWN BY	PDB	3/09	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						CHECKED BY	PRS	3/09	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	B-7
						DESIGNED BY	IRR	3/09					
						CHECKED BY	PRS	3/09					
						APPROVED BY	PAUL R. STEIJLEN						

BRIDGE CONCEPTS, INC.
CONSULTING ENGINEERS
15100 HUTCHINSON ROAD, SUITE 105
TAMPA, FL 33625
CERTIFICATE OF AUTHORIZATION NO. 9785
PAUL R. STEIJLEN, PE #44780



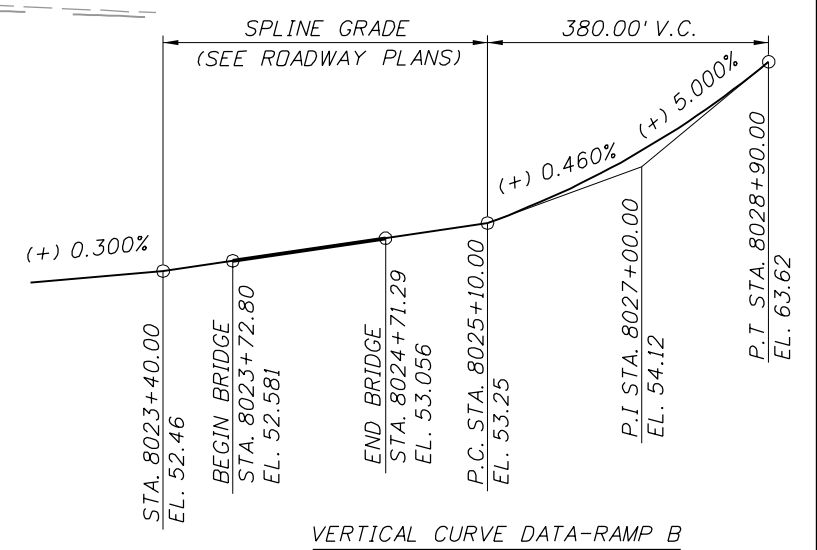
TRAFFIC DATA - RAMP B

CURRENT YEAR ESTIMATE = N/A
 OPENING YEAR ESTIMATE - 2014 = 12,000
 DESIGN YEAR ESTIMATE - 2034 = 22,000
 K = 8.5% D = 100% T = 20% (24 HOUR)
 DESIGN SPEED = 50 MPH
 DESIGN HOUR T = N/A
 POSTED SPEED = 45 MPH

HORIZONTAL CURVE RBN-2

P.I. STA. = 8026+47.65
 DELTA = 1° 46' 54" LT
 T = 358.13'
 L = 716.20'
 R = 23031.62'
 PC STA. = 8022+89.52
 PT STA. = 8030+05.72
 e = 0.020

PLAN

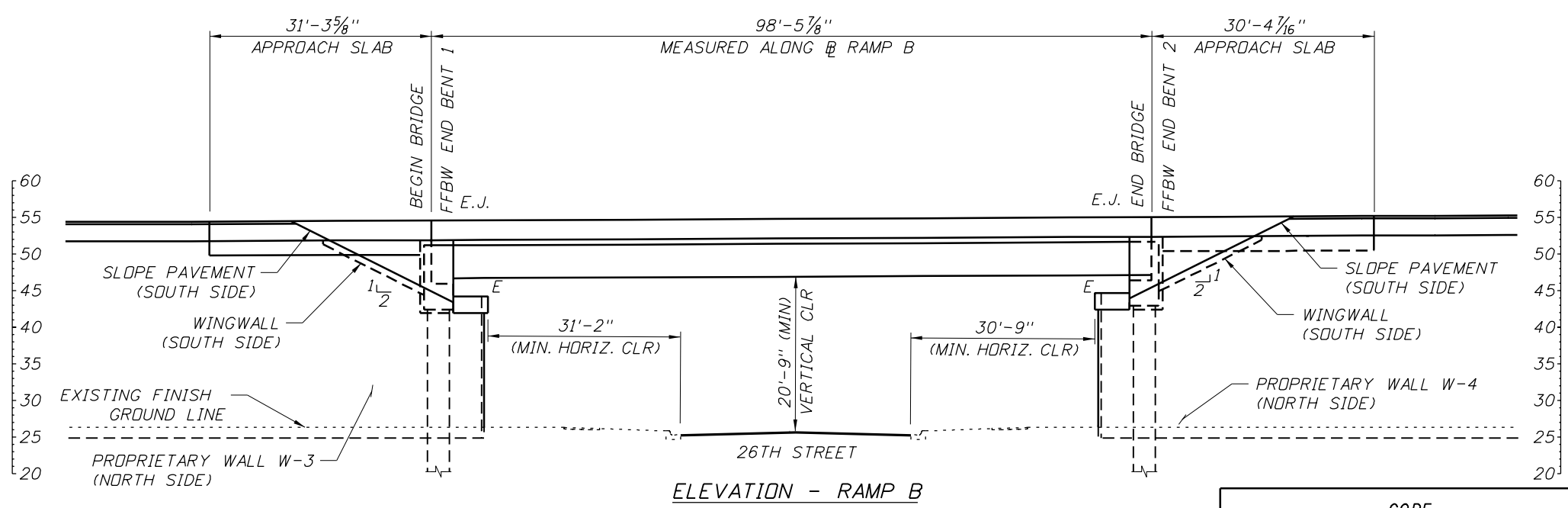


VERTICAL CURVE DATA-RAMP B

LEGEND:

E.J. - DENOTES EXPANSION JOINT
 E - DENOTES ELASTOMERIC BEARING
 ● - POINT OF MINIMUM VERTICAL CLEARANCE
 ⊙ - SOIL BORING LOCATION

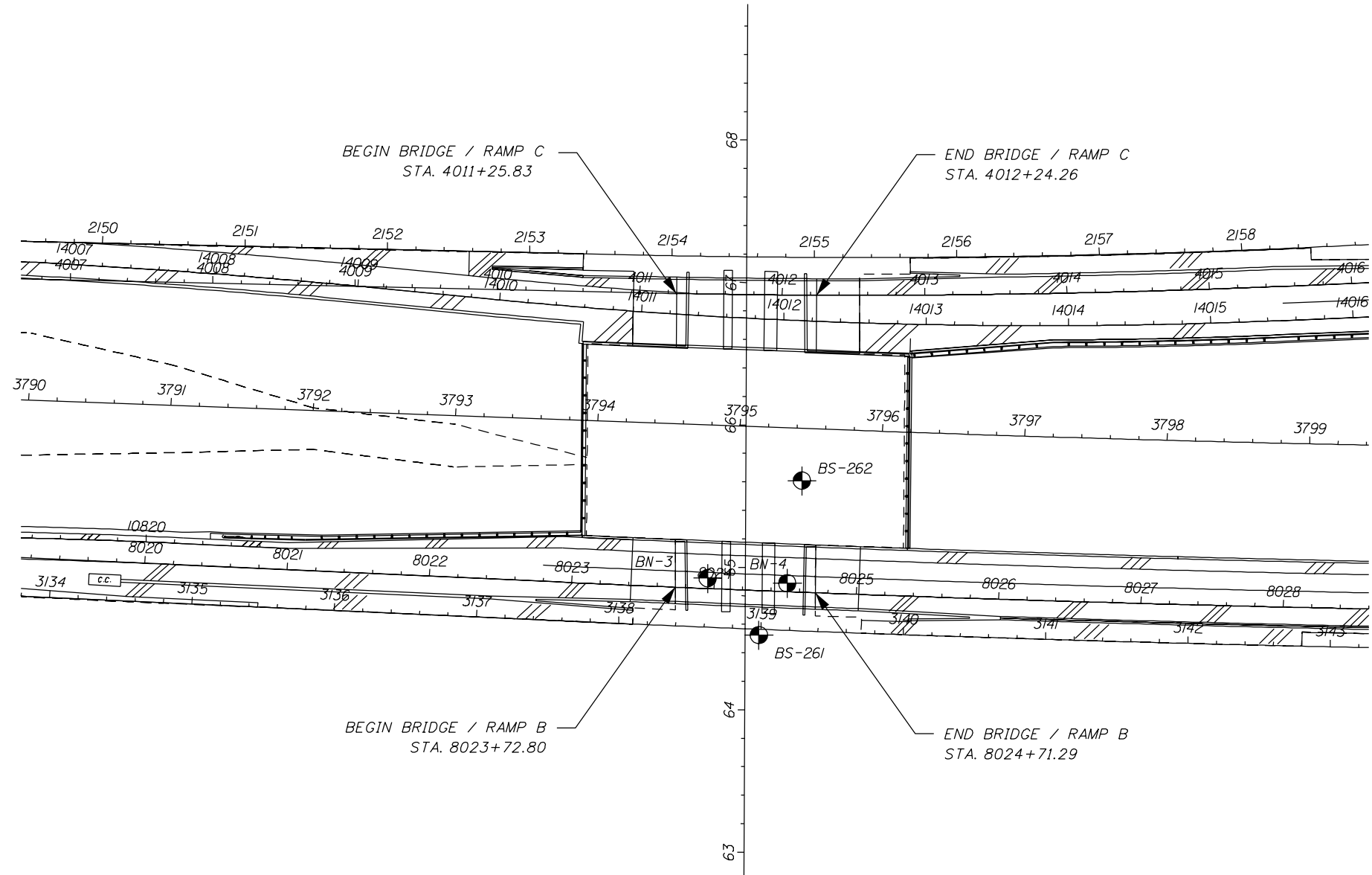
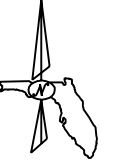
NOTE:
 FOR KEY PLAN SEE SHEET B-2.



ELEVATION - RAMP B

REVISIONS						ENGINEER OF RECORD:		CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	
						DRAWN BY	PDB 3/09	SR 400	HILLSBOROUGH	258415-2-52-01	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)	
						CHECKED BY	PRS 3/09				SHEET NO.	
						DESIGNED BY	IRR 3/09				BRIDGE NO. 100732	
						CHECKED BY	PRS 3/09				BI-1	
						APPROVED BY	PAUL R. STEIJLEN					

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



LEGEND

APPROXIMATE SPT BORING LOCATION

CORE

BRIDGE NO. 100732

REVISIONS						DATE	BY	DESCRIPTION

DRAWN BY	DJG	11/08	ENGINEER OF RECORD: PROFESSIONAL SERVICE INDUSTRIES, INC. 5801 BENJAMIN CENTER DR., SUITE 112 TAMPA, FL. 33634 (813) 886-1075 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684 CHING L. KUO, PH.D., P.E. FLORIDA LICENSE No. 36115
CHECKED BY	KME	11/08	
DESIGNED BY	KME	11/08	
CHECKED BY	CLK	11/08	
APPROVED BY	CHING L. KUO, PH.D., P.E.		

FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		REPORT OF CORE BORINGS (1 OF 2)
PROJECT NAME:		I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE RAMP B OVER 26TH ST.
SHEET NO.		BI-2

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

- (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
- (SM), BROWN TO DARK BROWN SILTY FINE SAND
- (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
- (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
- (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
- (PT), DARK BROWN TO BLACK SANDY PEAT
- (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
- (CL), LIGHT GRAY TO BROWN SANDY CLAY
- (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
- CHERT
- (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

ENVIRONMENTAL CLASSIFICATION

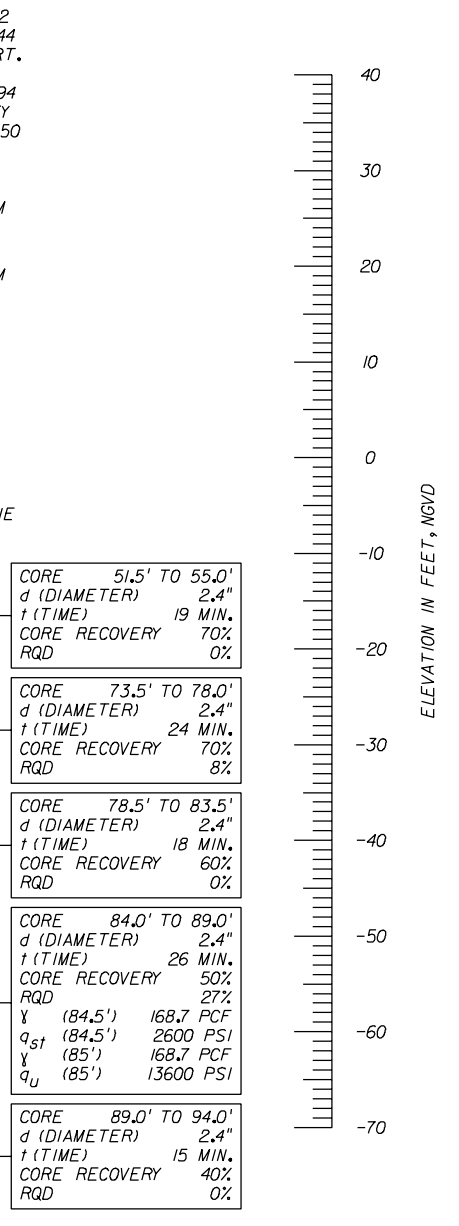
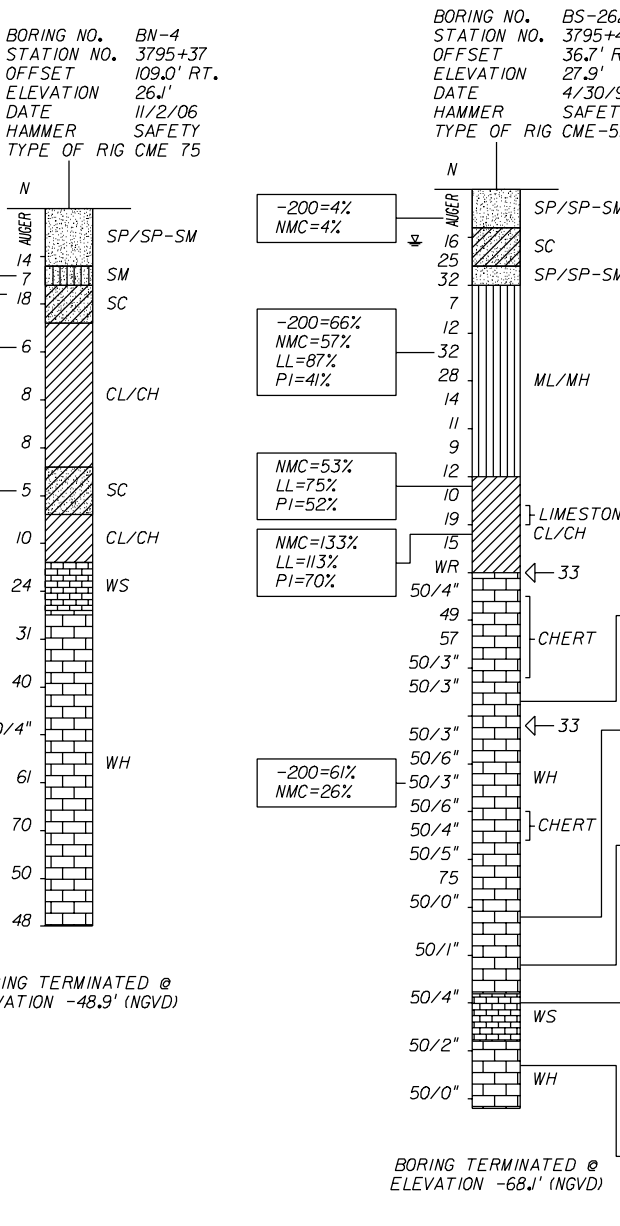
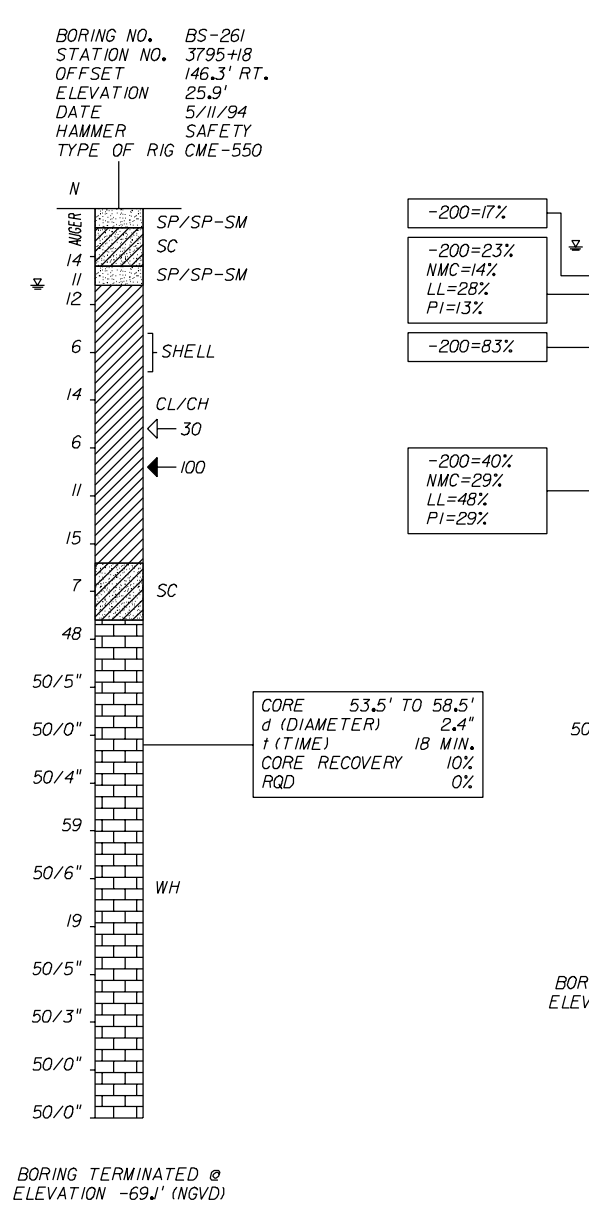
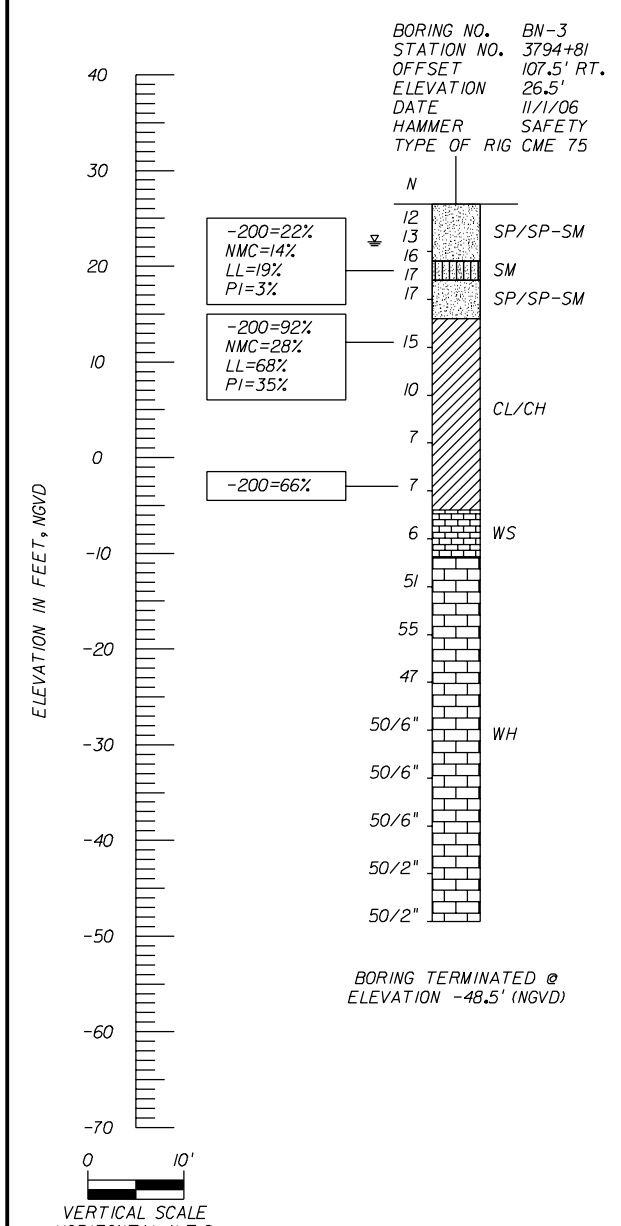
SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE
 SUBSTRUCTURE: STEEL: SLIGHTLY AGGRESSIVE
 CONCRETE: SLIGHTLY AGGRESSIVE

SOIL

RESISTIVITY: 6,500-7,800 OHMS-CM
 CHLORIDES: 60-120 PPM
 SULFATES: 50-72 PPM
 pH: 7.5

GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

NOTES: ALL BORINGS ARE REFERENCED TO THE CENTERLINE OF CONSTRUCTION I-4.
 DIFFICULT DRILLING MAY BE ENCOUNTERED DUE TO THE PRESENCE OF CHERT LAYERS. SPECIAL TOOLS AND EQUIPMENT MAY BE REQUIRED TO PENETRATE THIS STRATUM.



STANDARD PENETRATION TEST

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)
 N ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
 WH THE WEIGHT OF ROD AND HAMMER
 50/6" FIFTY BLOWS FOR SIX INCHES
 NSR NO SAMPLE RECOVERED
 WATER TABLE
 CASING USED
 GNA GROUNDWATER LEVEL NOT APPARENT
 LOSS OF CIRCULATION (%)
 ON THE LEFT SIDE OF A SOIL PROFILE INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD
 RECOVERY OF CIRCULATION (%)
 SHELBY TUBE SAMPLE LOCATION

CORE DATA

d ROCK CORE DIAMETER (INCHES)
 t ROCK CORE TIME
 RQD ROCK QUALITY DESIGNATION
 γ UNIT WEIGHT (PCF)
 q_u UNCONFINED COMPRESSION (PSI)
 q_{st} SPLIT TENSILE STRENGTH (PSI)

LAB RESULTS

-200 FINES PASSING NO. 200 SIEVE (%)
 NMC NATURAL MOISTURE CONTENT (%)
 OC ORGANIC CONTENT (%)
 LL LIQUID LIMIT (%)
 PI PLASTICITY INDEX (%)
 NP NON PLASTIC

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

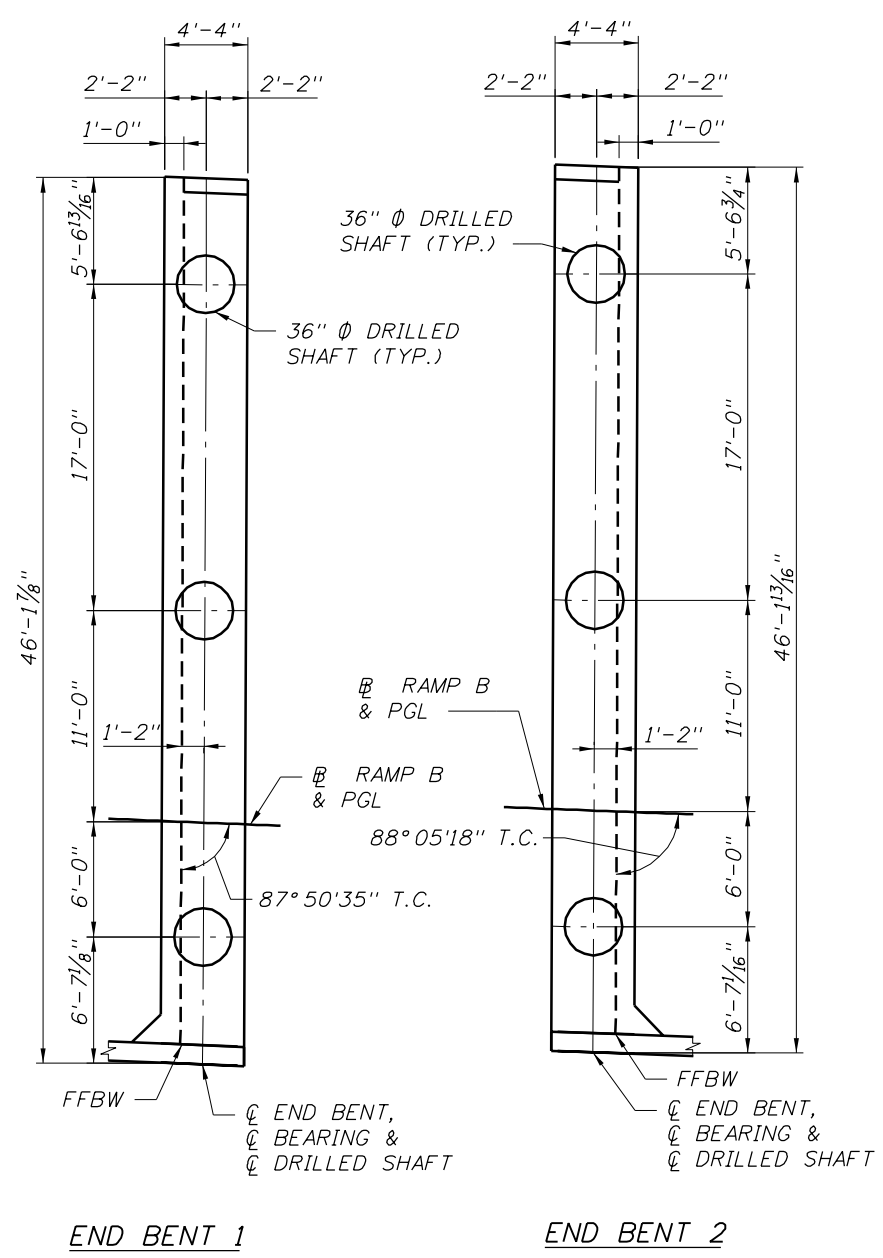
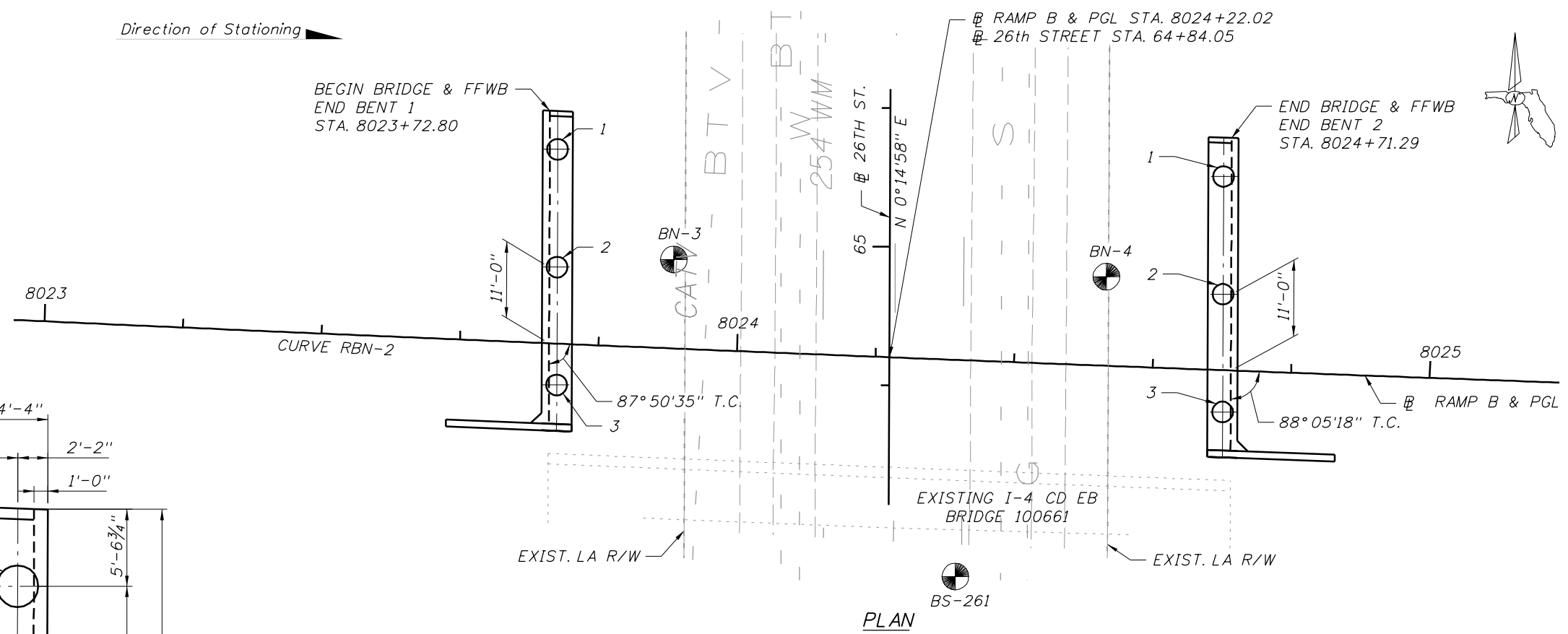
ENGINEER OF RECORD:
 PROFESSIONAL SERVICE INDUSTRIES, INC.
 5801 BENJAMIN CENTER DR., SUITE 112
 TAMPA, FL 33634 (813) 886-1075
 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684
 CHING L. KUO, Ph.D., P.E.
 FLORIDA LICENSE No. 36115

CORE		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

BRIDGE NO. 100732	
SHEET TITLE: REPORT OF CORE BORINGS (2 OF 2)	
PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE RAMP B OVER 26TH ST.	SHEET NO. BI-3

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

Direction of Stationing



DRILLED SHAFT DATA TABLE											
INSTALLATION CRITERIA						DESIGN CRITERIA				TESTING	
BENT NUMBER	SHAFT SIZE (IN.)	TIP ELEVATION (FT.)	*MIN. TIP ELEVATION (FT.)	TOP OF ROCK ELEV. (FT. NGVD)	**MIN. ROCK SOCKET LENGTH (FT.)	FACTORED DESIGN LOAD (Kips)	DOWN DRAG (Kips)	LONG TERM SCDUR ELEVATION (FT.)	100-YEAR SCDUR ELEVATION (FT.)	φ	*** CONSIDER NON-REDUNDANT
1	36	-23	N/A	-11	12	600	---	---	---	0.55	NO
2	36	-29	N/A	-16	13	600	---	---	---	0.55	NO

TIP ELEVATION: THE ELEVATION TO WHICH THE SHAFT SHALL BE CONSTRUCTED UNLESS LOAD TEST DATA, ROCK CORES, OR OTHER GEOTECHNICAL TEST DATA OBTAINED DURING CONSTRUCTION ALLOWS THE ENGINEER TO AUTHORIZE A DIFFERENT TIP ELEVATION.

- * MIN. TIP ELEVATION: THE HIGHEST ELEVATION THAT THE SHAFT TIP MAY BE CONSTRUCTED IF ADJUSTMENTS ARE MADE TO THE TIP ELEVATION.
- ** MIN. TOP OF ROCK SOCKET ELEVATION: ROCK ENCOUNTERED ABOVE THIS ELEVATION IS CONSIDERED UNSUITABLE FOR INCLUSION IN THE ROCK SOCKET LENGTH.
- *** INSPECT ALL NONREDUNDANT DRILLED SHAFT USING SID OR APPROVED ALTERNATE DOWN-HOLE CAMERA TO VERIFY SHAFT BOTTOM CLEANLINESS AT THE TIME OF CONCRETING. TEST ALL NONREDUNDANT DRILLED SHAFTS USING CROSS-HOLE-SONIC LOGGING (CSL).

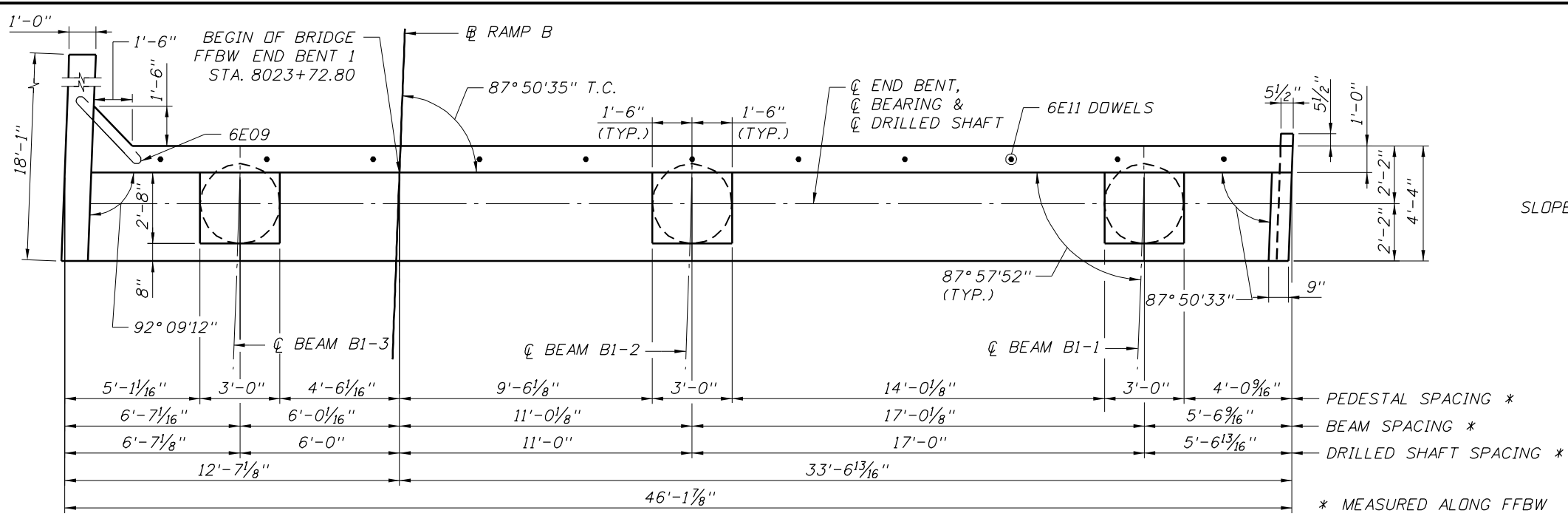
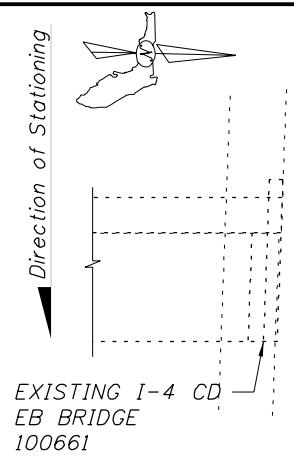
LEGEND

- 36" Ø DRILLED SHAFT

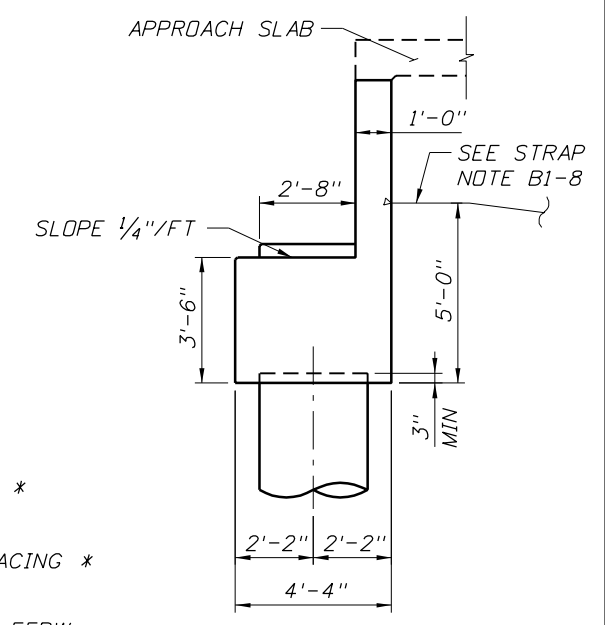
- BORING LOCATION

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<p>ENGINEER OF RECORD:</p> <p>BRIDGE CONCEPTS, INC. CONSULTING ENGINEERS 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9765 PAUL R. STEIJLEN, PE #44780</p>		<p>CORE</p> <p>FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>SR 400</td> <td>HILLSBOROUGH</td> <td>258415-2-52-01</td> </tr> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	HILLSBOROUGH	258415-2-52-01	<p>SHEET TITLE:</p> <p>FOUNDATION LAYOUT</p> <p>PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)</p>		<p>BRIDGE NO. 100732</p> <p>SHEET NO. BI-4</p>
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																								
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																											
SR 400	HILLSBOROUGH	258415-2-52-01																											

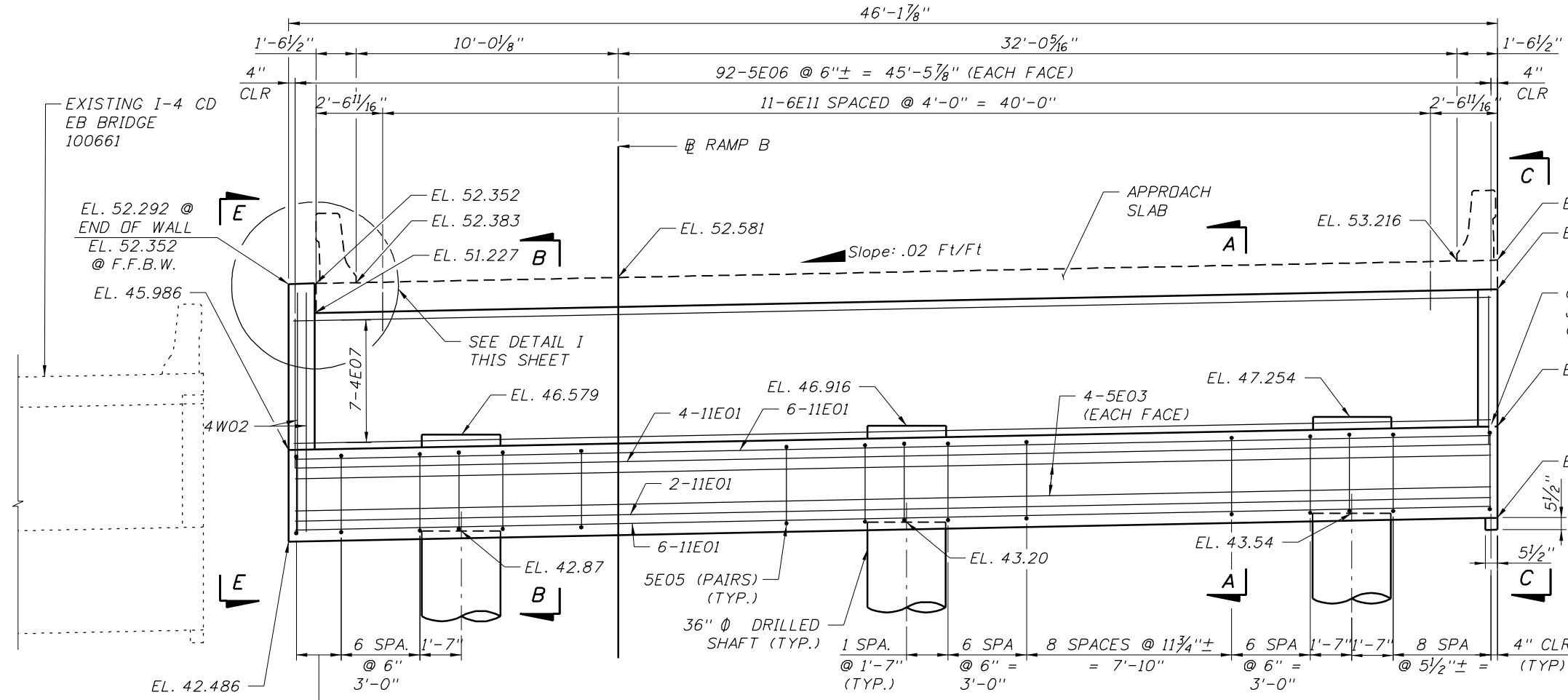
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



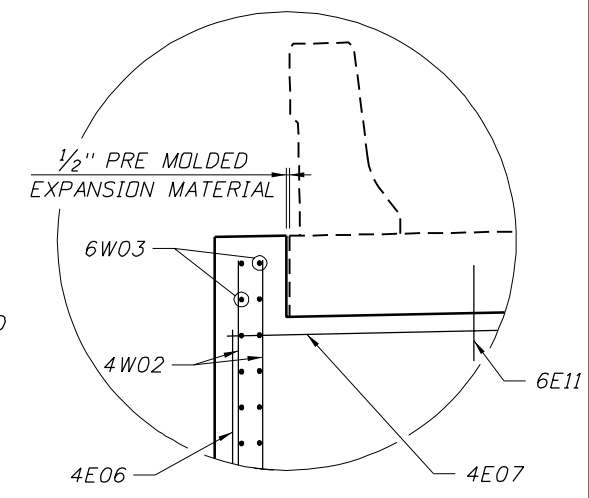
PLAN



SECTION A-A



ELEVATION
(LOOKING DOWNSTATION)



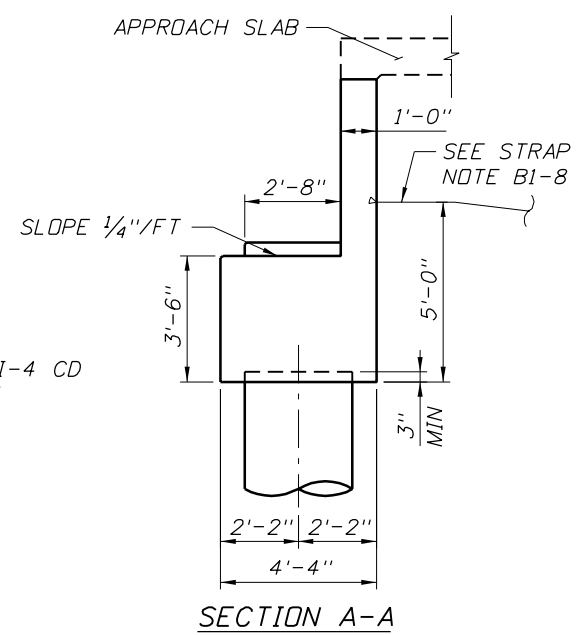
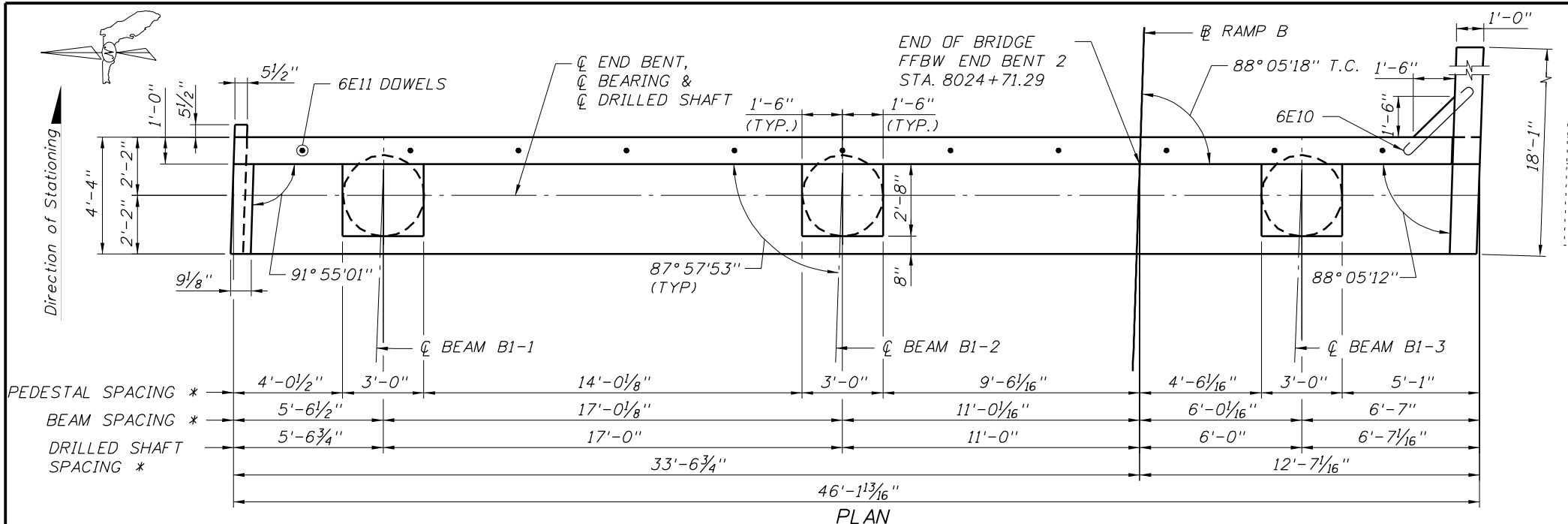
DETAIL I

ESTIMATED QUANTITIES			
ITEM	UNIT	QUANTITY	
Class IV Concrete (Substructure)	Cap	C.Y.	25.93
	Pedestals	C.Y.	0.41
	Backwall	C.Y.	8.90
	Wingwall	C.Y.	3.23
	Cheekwall	C.Y.	0.50
	Cheek wall lip	C.Y.	0.13
TOTAL	C.Y.	39.10	
Reinforcing Steel (Substructure)	L.B.	8,696	
36" Ø Drilled Shaft	L.F.	**	

** See Summary of Bridge Pay Items
BRIDGE NO. 100732

REVISIONS					ENGINEER OF RECORD			SHEET TITLE				
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						BRIDGE CONCEPTS, INC.	3/09	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)	BI-5
						PAUL R. STEIJLEN, PE #44780	3/09					

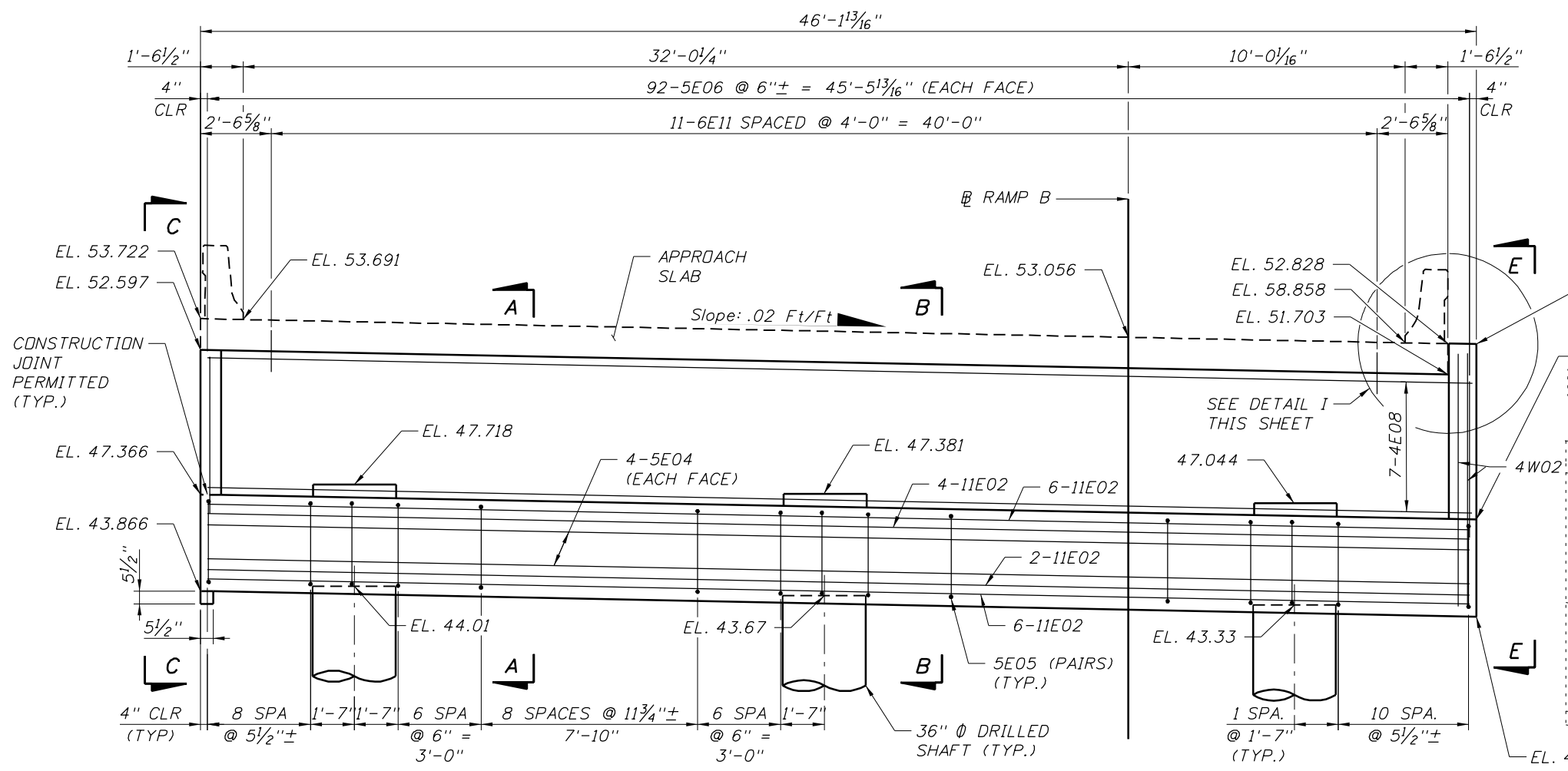
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



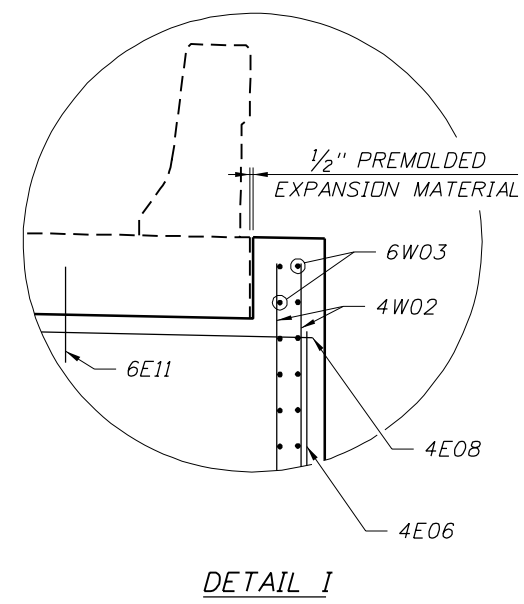
* MEASURED ALONG FFBW

ESTIMATED QUANTITIES			
ITEM	UNIT	QUANTITY	
Class IV Concrete (Substructure)	Cap	C.Y.	25.93
	Pedestals	C.Y.	0.41
	Backwall	C.Y.	8.94
	Wingwall	C.Y.	3.23
	Cheekwall	C.Y.	0.50
	Cheekwall lip	C.Y.	0.13
TOTAL	C.Y.	39.14	
Reinforcing Steel (Substructure)	L.B.	8,697	
36" Ø Drilled Shaft	L.F.	**	

** See Summary of Bridge Pay Items

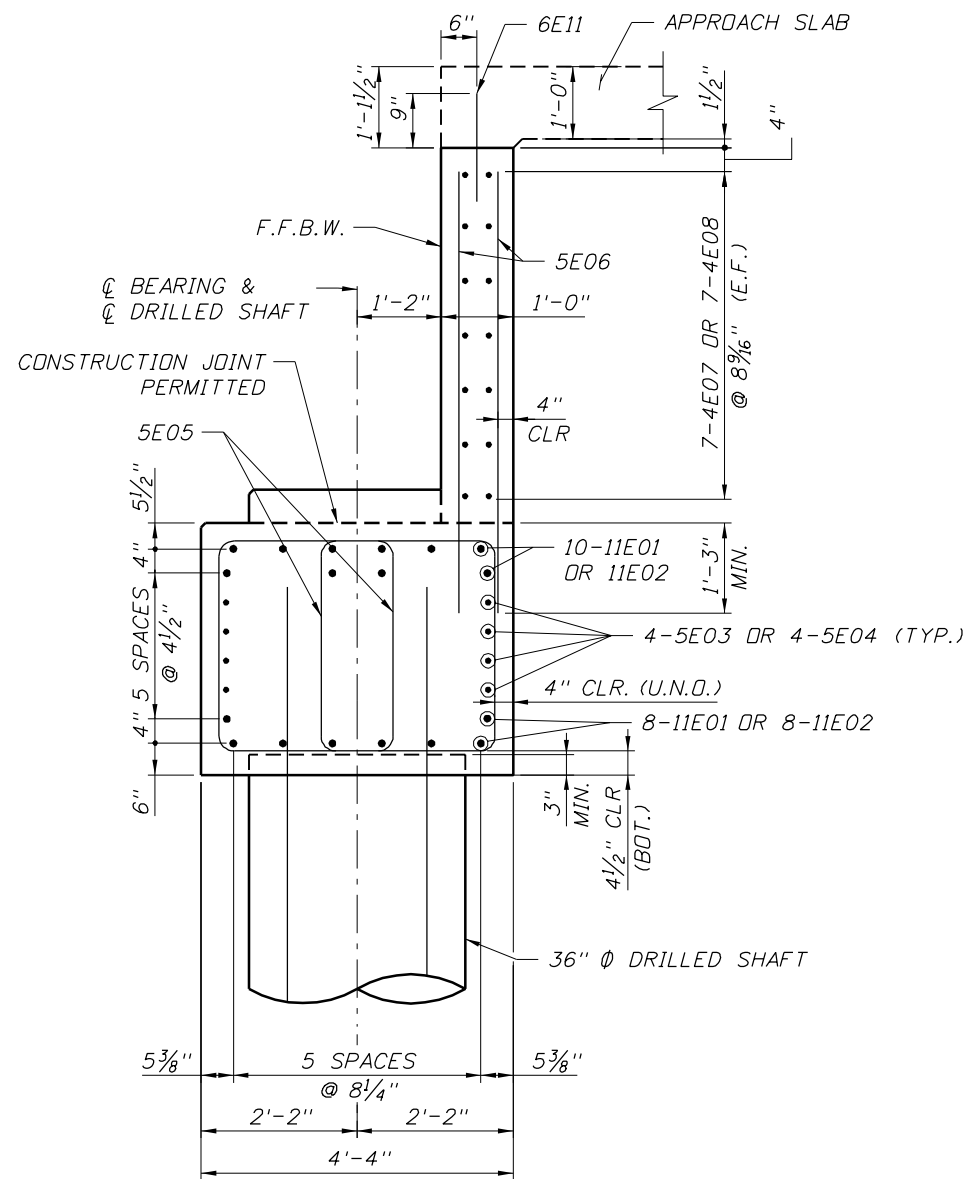


ELEVATION
(LOOKING UPSTATION)

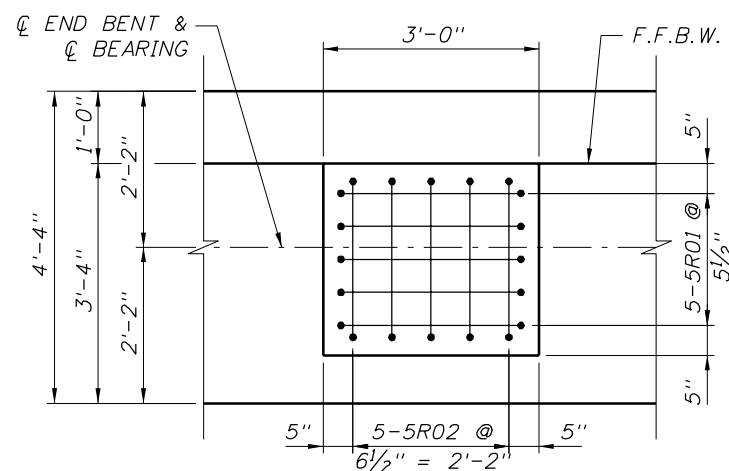


REVISIONS					ENGINEER OF RECORD			CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.
						BRIDGE CONCEPTS, INC.	3/09	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)	BI-6
						PAUL R. STEIJLEN	3/09					

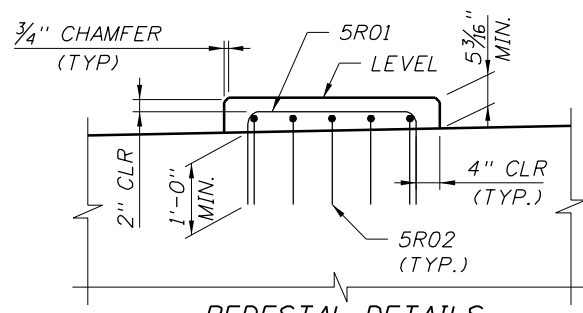
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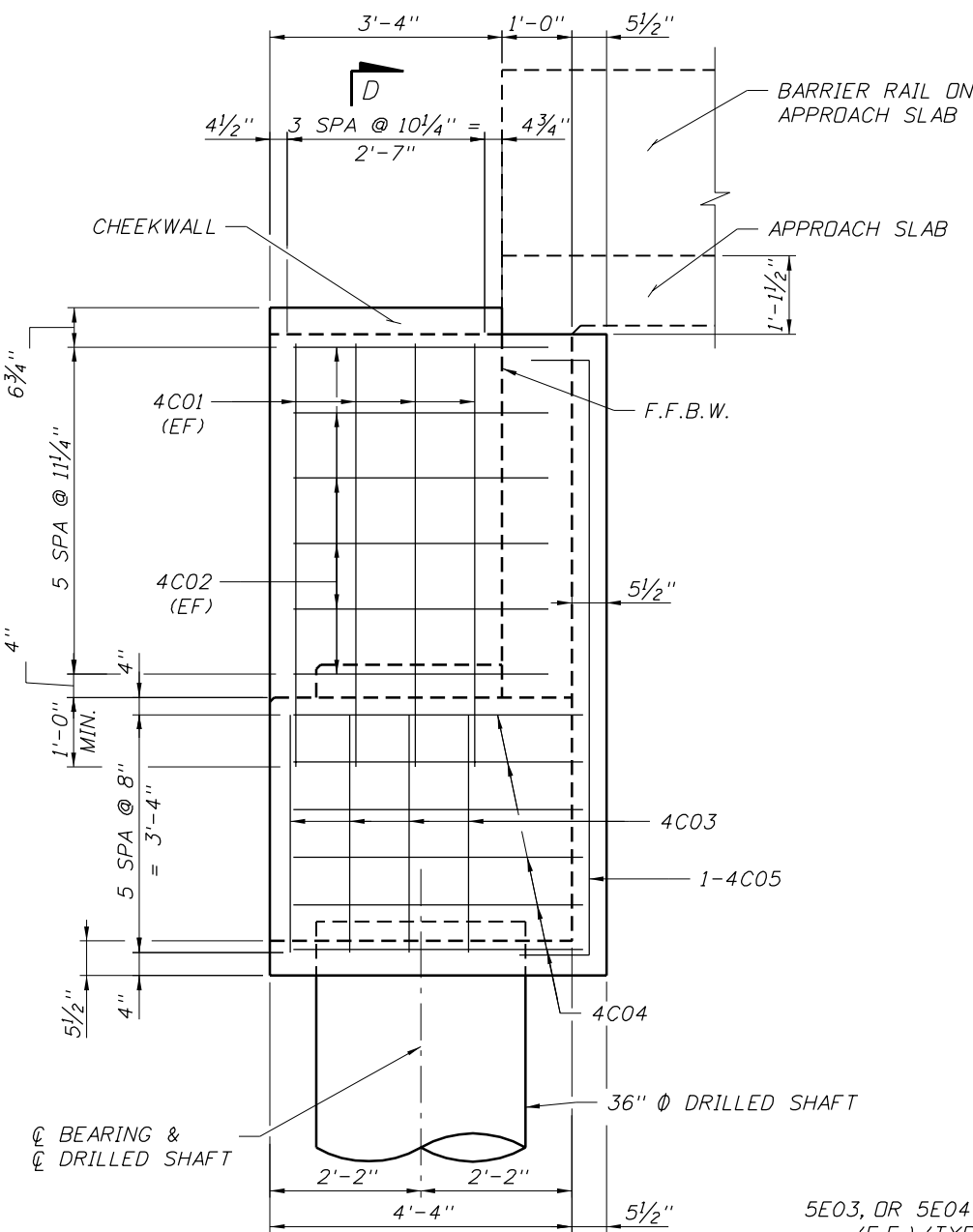
SECTION B-B



PEDESTAL DETAILS PLAN



PEDESTAL DETAILS ELEVATION

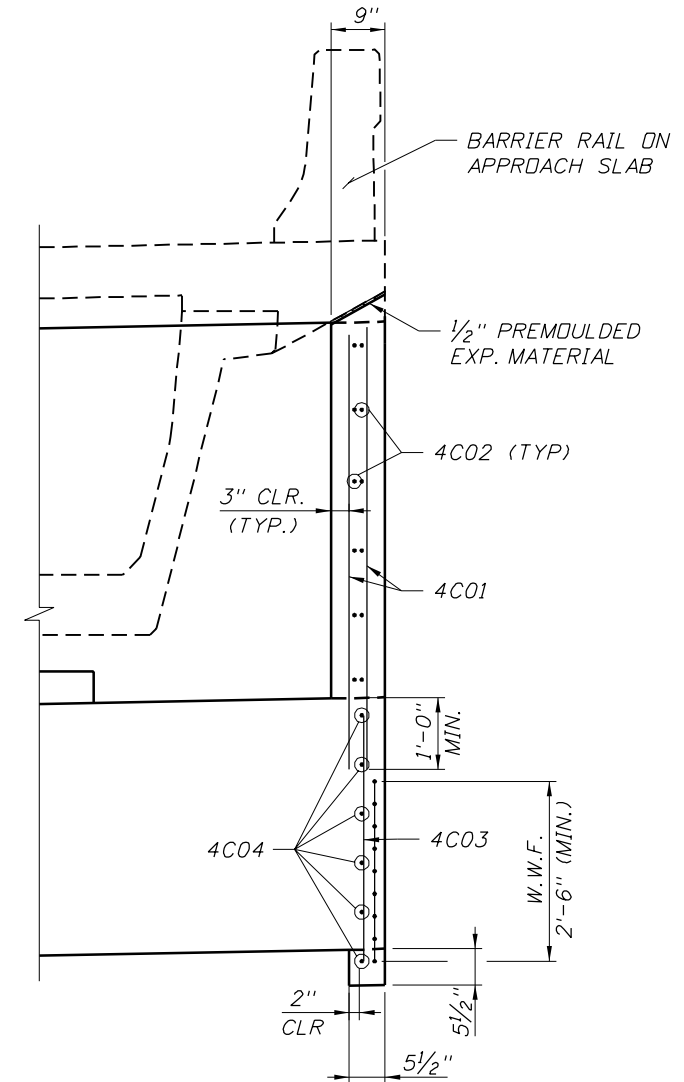


VIEW C-C

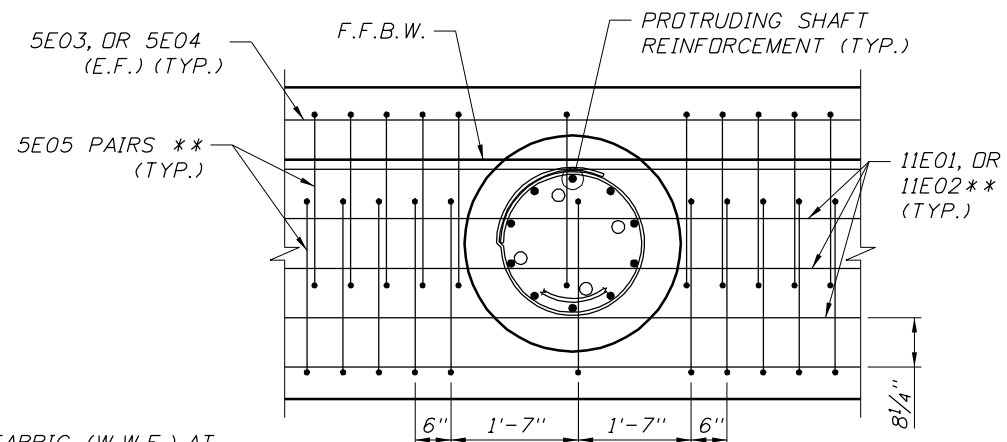
(END BENT 1 SHOWN, END BENT 2 OPPOSITE HAND)
(W.W.F. NOT SHOWN FOR CLARITY)

NOTE:

PROVIDE WELDED WIRE FABRIC (W.W.F.) AT ALL LUGS. 4X4-W4.0X4.0 (MIN. 2'-6" WIDE) SHALL BE TIED TO THE REINFORCEMENT.



SECTION D-D



REBAR SHAFT DETAIL

** SHIFT BARS AS NEED TO CLEAR DRILLED SHAFT REINFORCEMENT.

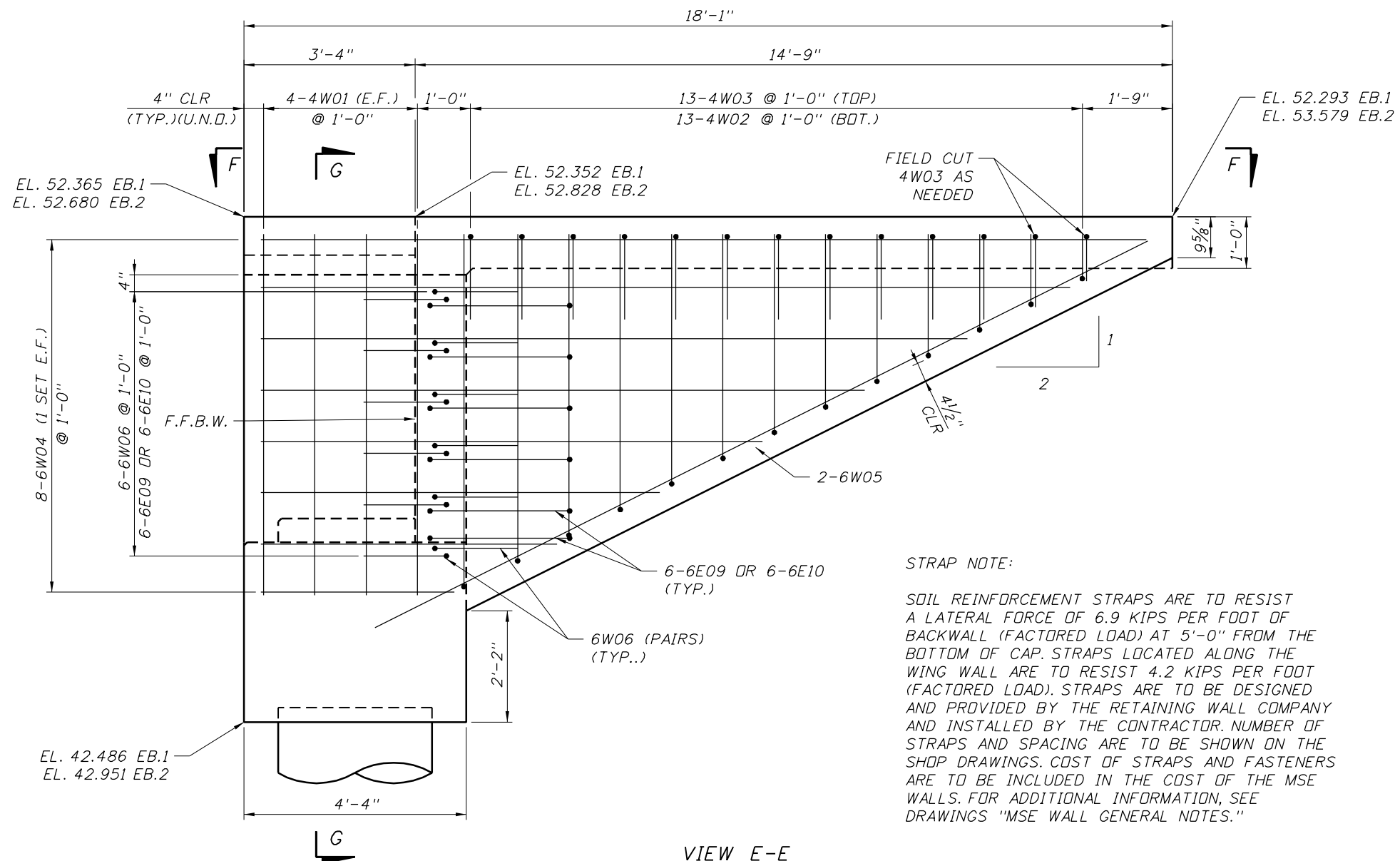
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE
DRAWN BY PDB	3/09
CHECKED BY PRS	3/09
DESIGNED BY IRR	3/09
CHECKED BY PRS	3/09
APPROVED BY PAUL R. STEIJLEN	

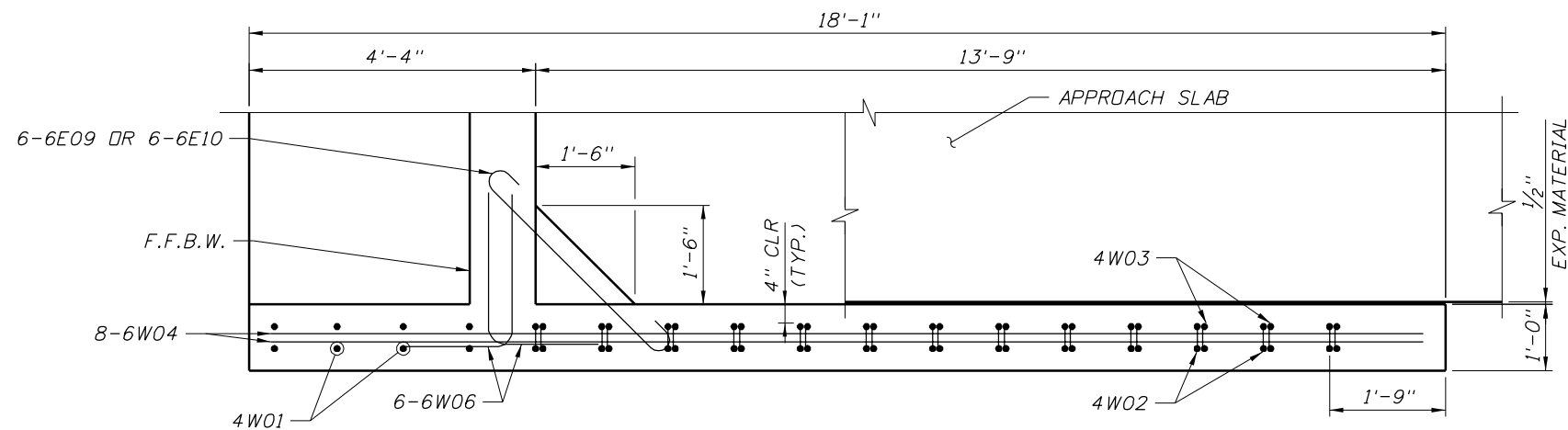
ENGINEER OF RECORD:
BRIDGE CONCEPTS, INC.
CONSULTING ENGINEERS
15100 HUTCHINSON ROAD, SUITE 105
TAMPA, FL 33625
CERTIFICATE OF AUTHORIZATION NO. 9785
PAUL R. STEIJLEN, PE #44780

CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		SHEET NO.
END BENT DETAILS (1 OF 2)		BI-7
PROJECT NAME:		
1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)		



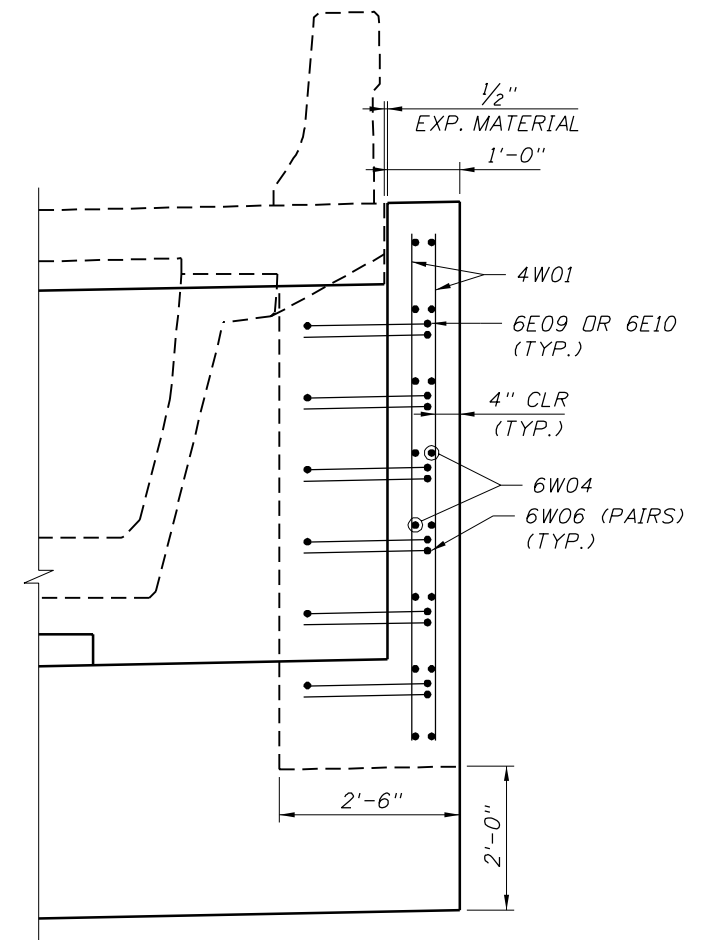
VIEW E-E
(END BENT 2 SHOWN, END BENT 1 OPPOSITE HAND)



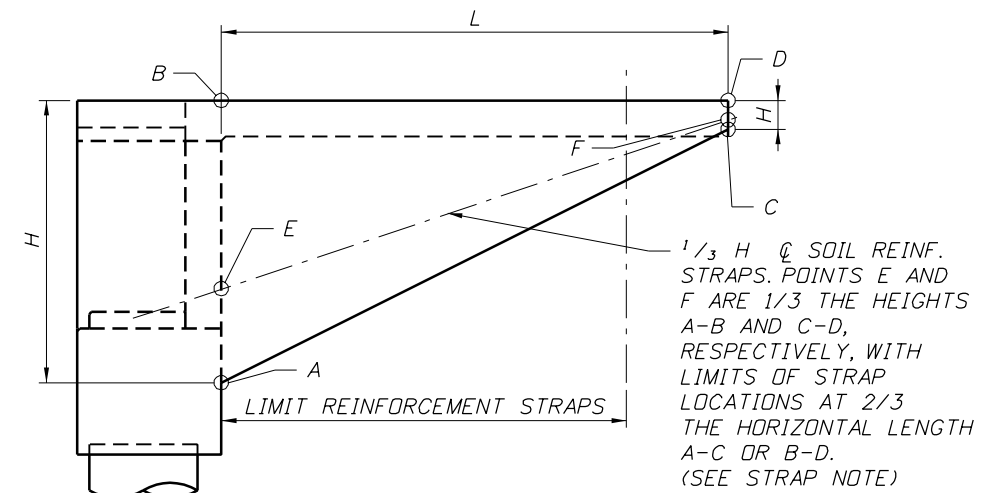
VIEW F-F

STRAP NOTE:

SOIL REINFORCEMENT STRAPS ARE TO RESIST A LATERAL FORCE OF 6.9 KIPS PER FOOT OF BACKWALL (FACTORED LOAD) AT 5'-0" FROM THE BOTTOM OF CAP. STRAPS LOCATED ALONG THE WING WALL ARE TO RESIST 4.2 KIPS PER FOOT (FACTORED LOAD). STRAPS ARE TO BE DESIGNED AND PROVIDED BY THE RETAINING WALL COMPANY AND INSTALLED BY THE CONTRACTOR. NUMBER OF STRAPS AND SPACING ARE TO BE SHOWN ON THE SHOP DRAWINGS. COST OF STRAPS AND FASTENERS ARE TO BE INCLUDED IN THE COST OF THE MSE WALLS. FOR ADDITIONAL INFORMATION, SEE DRAWINGS "MSE WALL GENERAL NOTES."



SECTION G-G



STRAP DETAILS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE
DRAWN BY PDB	3/09
CHECKED BY PRS	3/09
DESIGNED BY IRR	3/09
CHECKED BY PRS	3/09
APPROVED BY PAUL R. STEIJLEN	

ENGINEER OF RECORD:
BRIDGE CONCEPTS, INC.
 CONSULTING ENGINEERS
 15100 HUTCHINSON ROAD, SUITE 105
 TAMPA, FL 33625
 CERTIFICATE OF AUTHORIZATION NO. 9785
 PAUL R. STEIJLEN, PE #44780

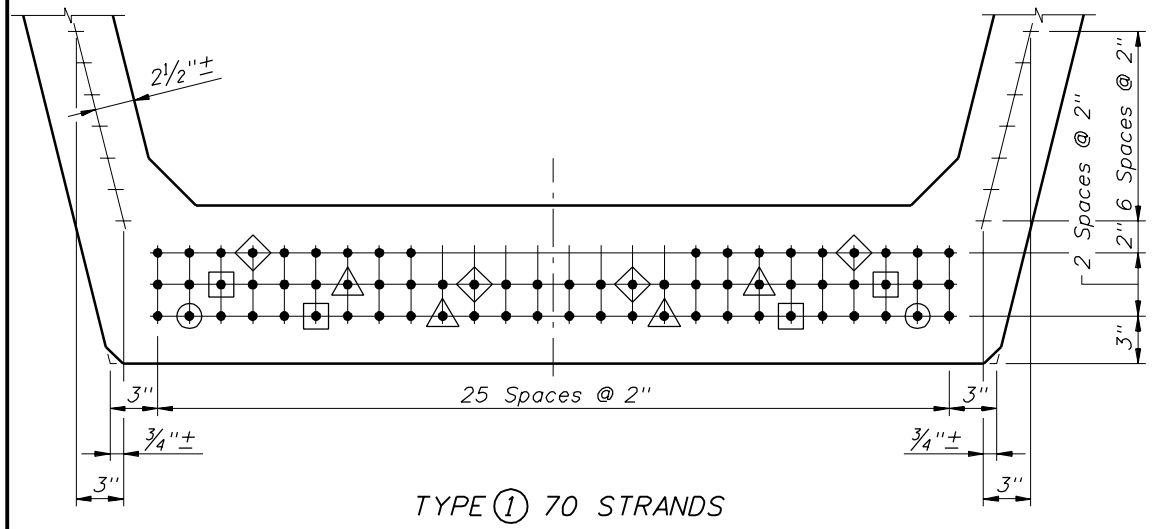
CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		SHEET NO.
END BENT DETAILS (2 OF 2)		BI-8
PROJECT NAME:		
1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)		

FLORIDA U BEAM -- TABLE OF BEAM VARIABLES

Table Date 1-01-06

FUB TYPE	LOCATION		CONCRETE PROPERTIES		STND. PTRN. TYPE	END ELEV. COND.	PLAN VIEW CASE		BRG. PLATE MARK ***		END OF BEAM AND BEARING DIMENSIONS **				BEAM DIMENSIONS *		REINFORCING STEEL												
	SPAN NO.	BEAM NO.	CLASS	STRENGTHS (psi)			END 1	END 2	END 1	END 2	ANGLE Ø		DIM P	DIM J	DIM K1	DIM K2	DIM L	DIM R	4G	4H	4M	5K	NO. OF SPACES BARS 5K & 4M			SPACING BARS 5K & 4M *			
				28 Day							Release	END 1							END 2	NO.	NO.	NO.	NO.	S1	S2	S3	V1	V2	V3
54	B1	B1-1	VI	8500	6000	1	2	2	2	---	---	88°	88°	1/4"	1'-0"	1'-2"	1'-2"	98'-3"	1"	70	100	290	310	12	25	1	9"	1'-0"	1'-1/2"
54	B1	B1-2	VI	8500	6000	1	2	2	2	---	---	88°	88°	1/4"	1'-0"	1'-2"	1'-2"	98'-3"	1"	70	100	290	310	12	25	1	9"	1'-0"	1'-1/2"
54	B1	B1-3	VI	8500	6000	1	2	2	2	---	---	88°	88°	1/4"	1'-0"	1'-2"	1'-2"	98'-3"	1"	70	100	290	310	12	25	1	9"	1'-0"	1'-1/2"



NOTE:
Work this sheet with Design Standards Index Nos. 20210, 20248, 20254, 20263 and 20272.

DIMENSION NOTES
 * All longitudinal beam dimensions shown on this sheet with a single asterisk (*) are measured along the top of beam at the centerline of beam.
 ** End of beam bearing dimensions "J" and "K" are measured along the bottom of the beam.

BEARING PLATES
 *** Mark indicates beveled bearing plate and embedded bearing plate required. See Index No. 20502 for details.

STRAND DEBONDING LEGEND
 • - fully bonded strands.
 ⊙ - strands debonded 3'-0" from end of beam.
 ⊠ - strands debonded 9'-0" from end of beam.
 ▲ - strands debonded 15'-0" from end of beam.
 ◆ - strands debonded 21'-0" from end of beam.

NOTE: On beams with skewed ends the debonded length shall be measured along the shielded strand.

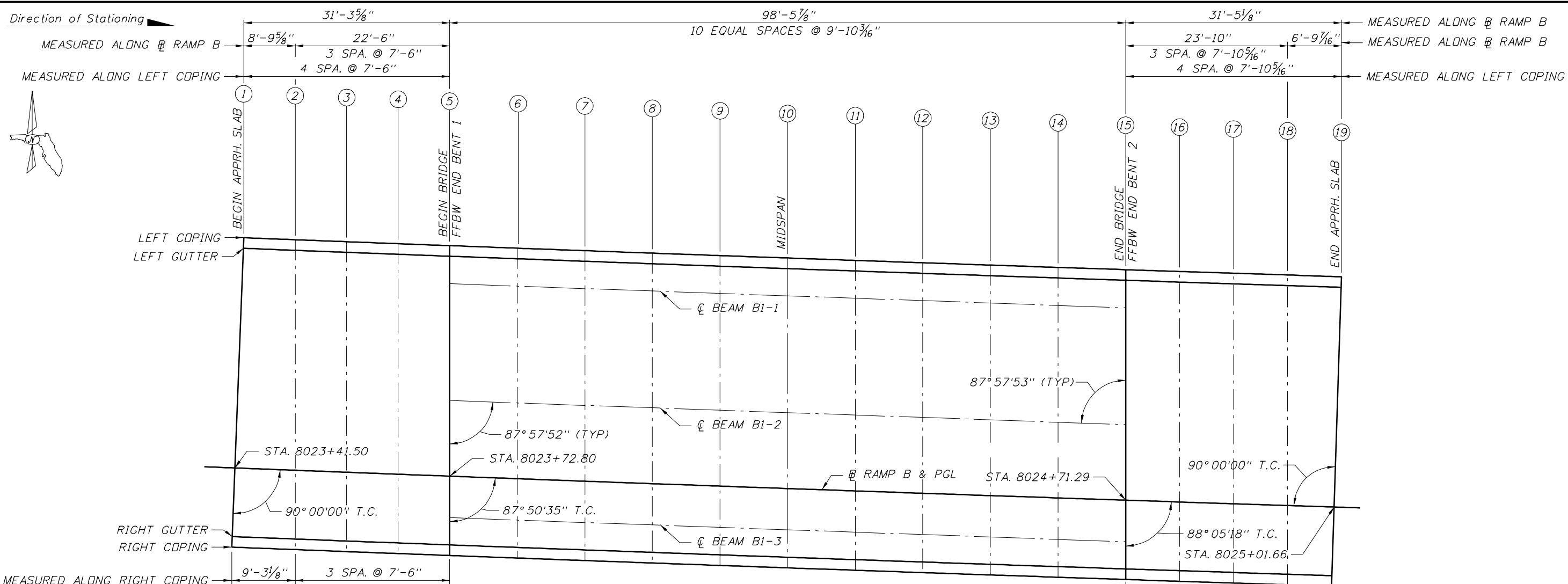
STRAND DESCRIPTION: Use 0.5" Diameter, Grade 270, Low Relaxation Strands stressed at 31.0 kips each. Area per strand equals 0.153 sq. in.

STRAND PATTERN

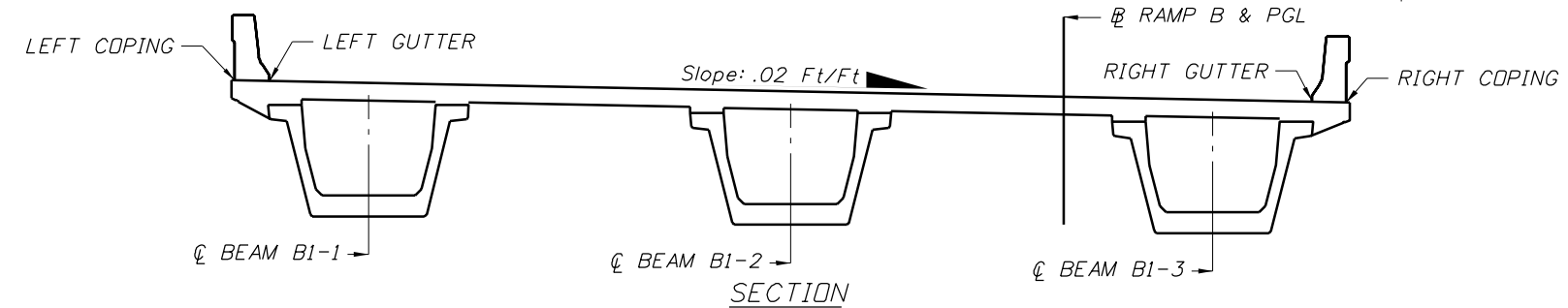
<table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<table border="1"> <thead> <tr> <th>NAMES</th> <th>DATES</th> </tr> </thead> <tbody> <tr> <td>DRAWN BY PDB</td> <td>3/09</td> </tr> <tr> <td>CHECKED BY PRS</td> <td>3/09</td> </tr> <tr> <td>DESIGNED BY IRR</td> <td>3/09</td> </tr> <tr> <td>CHECKED BY PRS</td> <td>3/09</td> </tr> <tr> <td>APPROVED BY PAUL R. STEIJLEN</td> <td> </td> </tr> </tbody> </table>			NAMES	DATES	DRAWN BY PDB	3/09	CHECKED BY PRS	3/09	DESIGNED BY IRR	3/09	CHECKED BY PRS	3/09	APPROVED BY PAUL R. STEIJLEN		<p>ENGINEER OF RECORD:</p> <p>BRIDGE CONCEPTS, INC. <small>CONSULTING ENGINEERS</small> 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9785 PAUL R. STEIJLEN, PE, #44780</p>			<p>CORE</p> <p>FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <td>ROAD NO.</td> <td>COUNTY</td> <td>FINANCIAL PROJECT ID</td> </tr> <tr> <td>SR 400</td> <td>HILLSBOROUGH</td> <td>258415-2-52-01</td> </tr> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	HILLSBOROUGH	258415-2-52-01	<p>BRIDGE NO. 100732</p> <p>SHEET TITLE: FLORIDA U-BEAM TABLE OF BEAM VARIABLES</p> <p>PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)</p> <p>SHEET NO. BI-9</p>					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																																													
NAMES	DATES																																																	
DRAWN BY PDB	3/09																																																	
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SR 400	HILLSBOROUGH	258415-2-52-01																																																

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Direction of Stationing



PLAN



SECTION

TABLE OF FINISH GRADE ELEVATIONS

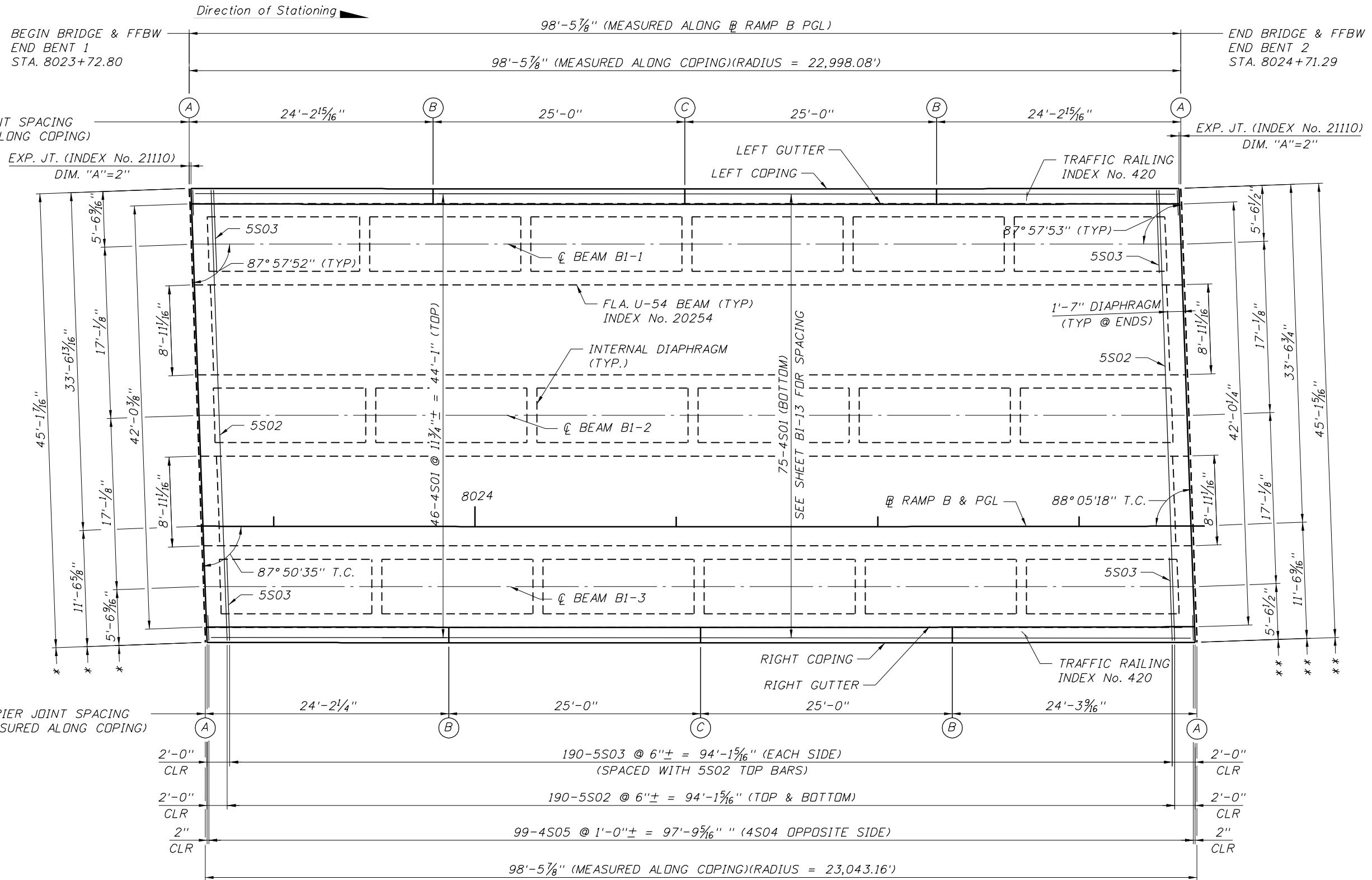
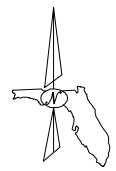
	APPROACH SLAB 1					SPAN 1										APPROACH SLAB 2					
	1	2	3	4	5	5	6	7	8	9	10	11	12	13	14	15	15	16	17	18	19
LEFT COPING	53.136	53.162	53.189	53.217	53.247	53.247	53.287	53.332	53.377	53.426	53.475	53.524	53.574	53.623	53.672	53.722	53.722	53.761	53.800	53.840	53.879
LEFT GUTTER	53.105	53.132	53.158	53.186	53.216	53.216	53.257	53.301	53.346	53.395	53.445	53.494	53.543	53.593	53.642	53.691	53.691	53.730	53.770	53.809	53.848
☉ BEAM B1-1						53.137	53.178	53.222	53.268	53.317	53.366	53.416	53.465	53.514	53.563	53.612					
☉ BEAM B1-2						52.800	52.840	52.885	52.931	52.980	53.029	53.079	53.128	53.177	53.226	53.275					
RAMP B & PGL	52.465	52.496	52.522	52.551	52.581	52.581	52.622	52.666	52.712	52.761	52.810	52.859	52.909	52.958	53.007	53.056	53.056	53.096	53.135	53.174	53.208
☉ BEAM B1-3						52.462	52.503	52.548	52.594	52.643	52.692	52.742	52.791	52.840	52.889	52.937					
RIGHT GUTTER	52.265	52.297	52.324	52.353	52.383	52.383	52.424	52.468	52.514	52.563	52.612	52.661	52.710	52.760	52.809	52.858	52.858	52.897	52.937	52.976	53.008
RIGHT COPING	52.234	52.267	52.293	52.322	52.352	52.352	52.393	52.437	52.483	52.532	52.581	52.631	52.680	52.729	52.778	52.828	52.828	52.867	52.906	52.945	52.977

CORE

BRIDGE NO. 100732

REVISIONS						DRAWN BY		NAMES		DATES		ENGINEER OF RECORD			SHEET TITLE					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	PDB	3/09	ENGINEER OF RECORD	FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO.	SR 400	COUNTY	HILLSBOROUGH	FINANCIAL PROJECT ID	258415-2-52-01	PROJECT NAME	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)	SHEET NO.	BI-11
						CHECKED BY	PRS	3/09	BRIDGE CONCEPTS, INC.	CONSULTING ENGINEERS										
						DESIGNED BY	IRR	3/09	15100 HUTCHINSON ROAD, SUITE 105	TAMPA, FL 33625										
						CHECKED BY	PRS	3/09	CERTIFICATE OF AUTHORIZATION NO. 9765											
						APPROVED BY	PAUL R. STEIJLEN		PAUL R. STEIJLEN, PE, #44780											

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- (A) - EXPANSION JOINT
- (B) - \varnothing 1/2" V GROOVE IN BOTH FACES AND TOP OF ALL BARRIERS
- (C) - \varnothing 3/4" OPEN JOINT IN ALL TRAFFIC RAILING BARRIERS

NOTES:

1. * DIMENSION MEASURED ALONG FFBW END BENT 1
2. ** DIMENSION MEASURED ALONG FFBW END BENT 2

PLAN

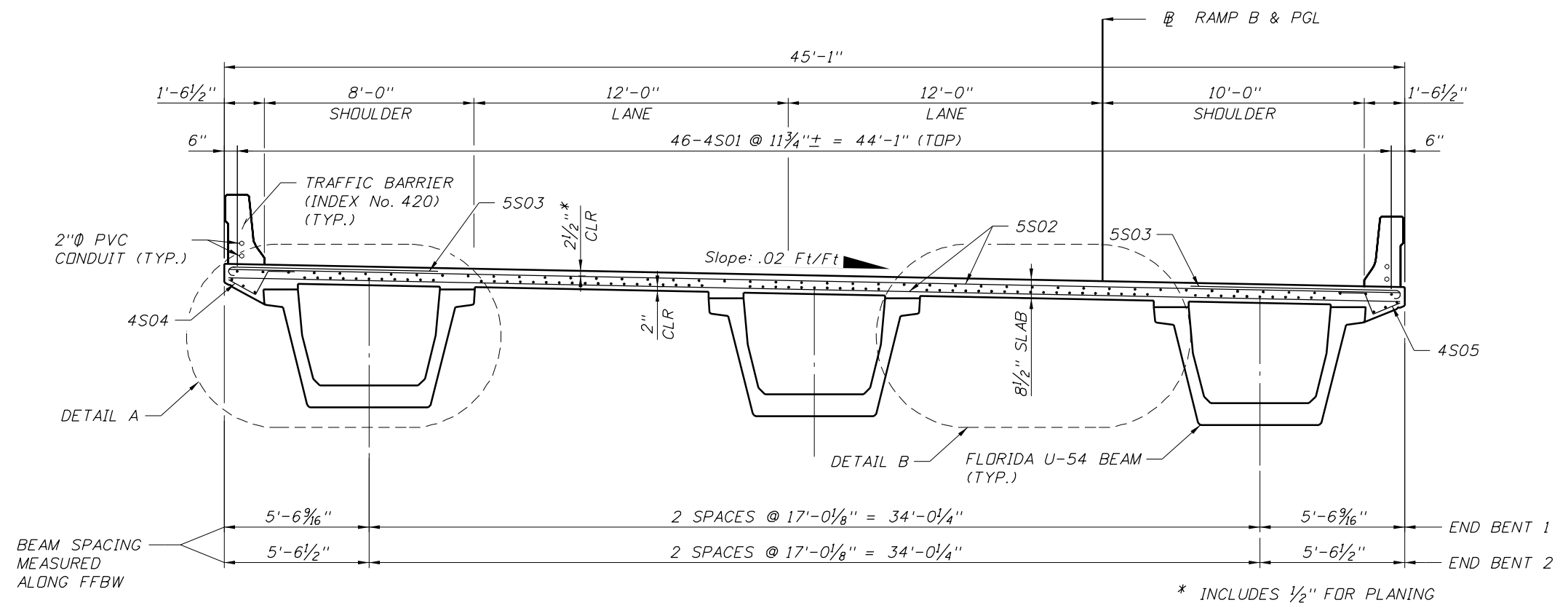
ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
Class IV Concrete (Bridge Deck)	C.Y.	126.76
Reinforcing Steel (Superstructure)	LB.	31,174
Concrete Traffic Barrier	L.F.	196.2

BRIDGE NO. 100732

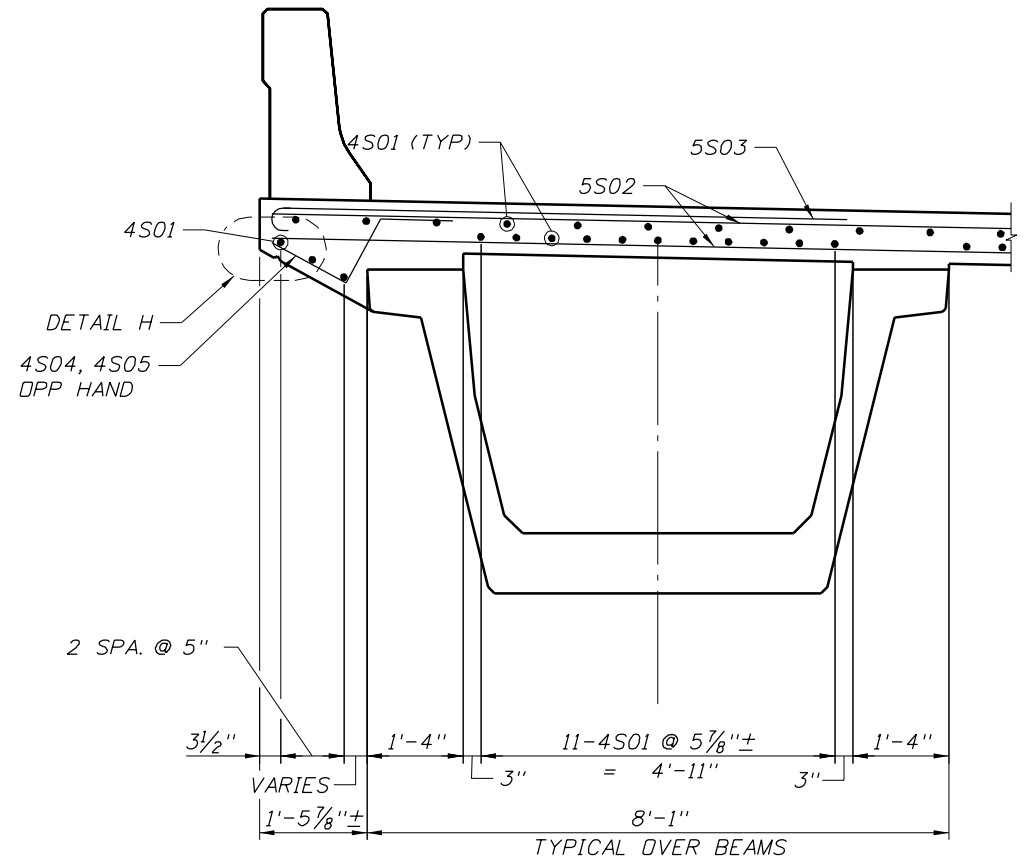
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NAME					
						DRAWN BY	PDB	3/09				1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)				
					CHECKED BY	PRS	3/09	ROAD NO.						COUNTY	FINANCIAL PROJECT ID	SHEET NO.
					DESIGNED BY	IRR	3/09	SR 400						HILLSBOROUGH	258415-2-52-01	BI-12
					CHECKED BY	PRS	3/09									
						APPROVED BY	PAUL R. STEIJLEN									

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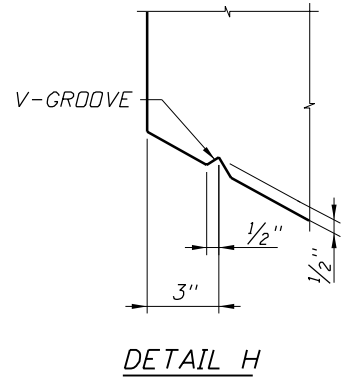


* INCLUDES 1/2" FOR PLANING

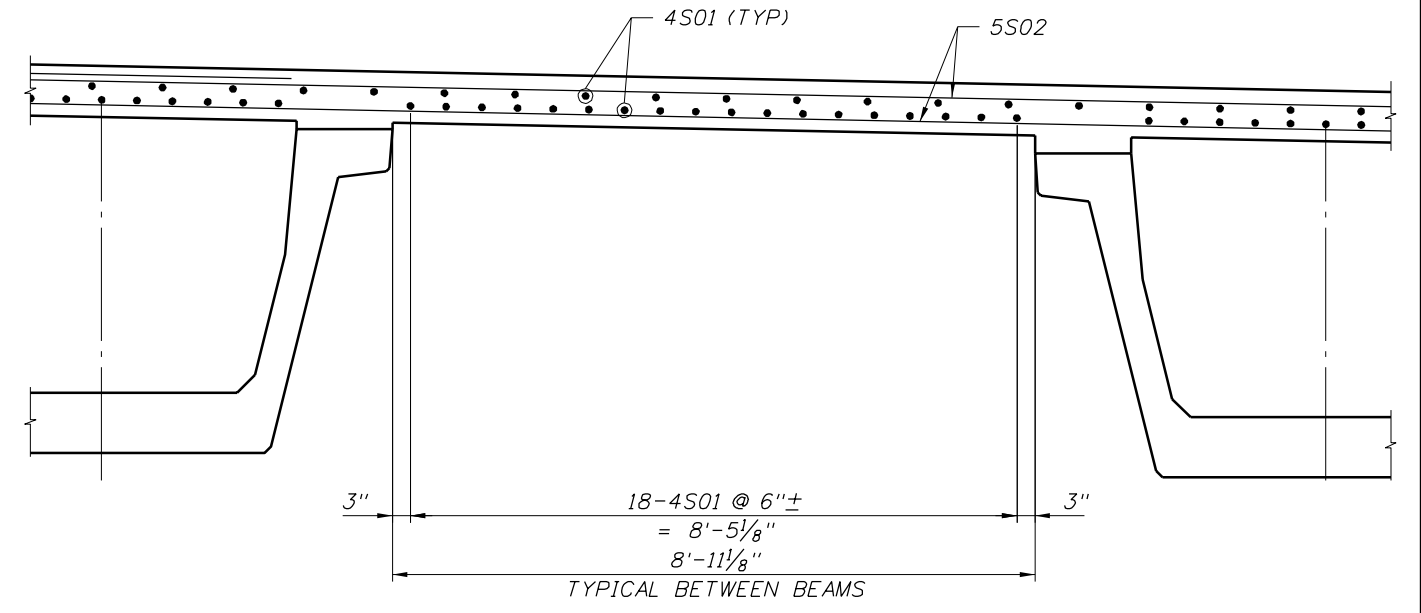
TYPICAL SECTION



DETAIL A



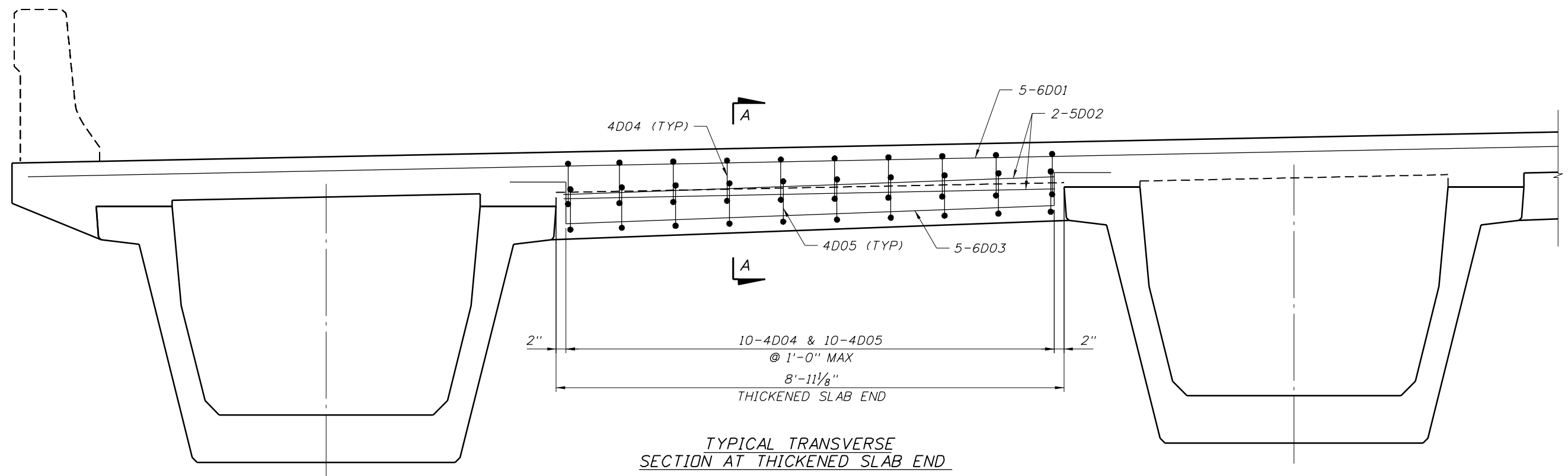
DETAIL H



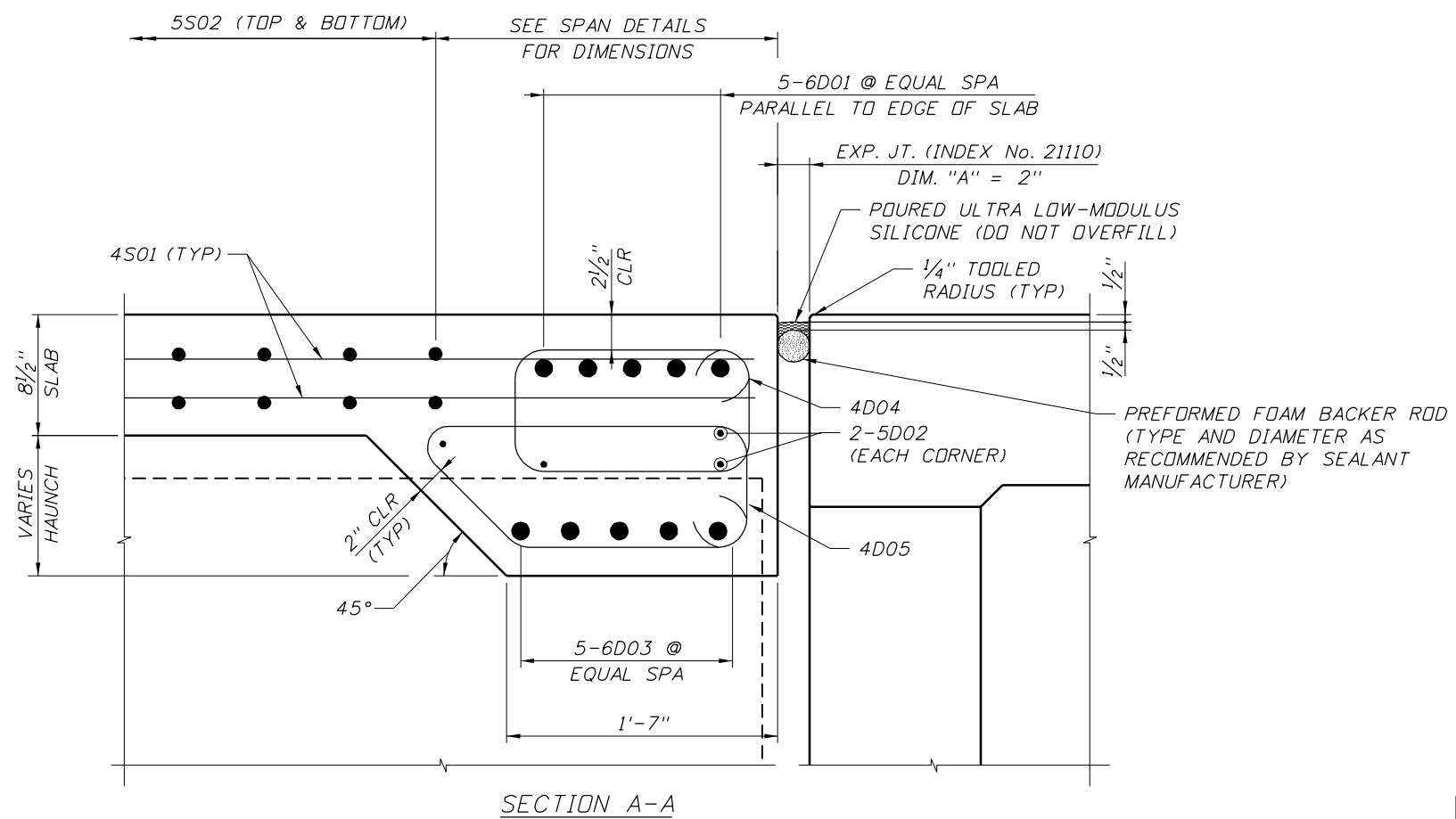
DETAIL B

REVISIONS						DRAWN BY		CHECKED BY		DESIGNED BY		APPROVED BY		ENGINEER OF RECORD			SHEET TITLE					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE	COMPANY	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME				
						PDB	3/09	PRS	3/09	IRR	3/09	PRS	3/09	BRIDGE CONCEPTS, INC.	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)				
														LAWSONS			3/27/2009 3:15:14 PM			T:\Sys\Projects\25841525201\struct\B01-100732\bltyp\calsect10r01.dgn		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



TYPICAL TRANSVERSE SECTION AT THICKENED SLAB END



SECTION A-A

POURED EXPANSION JOINT DATA TABLE			Table Date 1-01-06
INDEX NO. 2110			
LOCATION	DIM. "A" @ 70°	TOTAL DESIGN MOVEMENT	DIM. "A" ADJUSTMENT PER 10°F
END BENT 1	2"	2"	1/4"
END BENT 2	2"	2"	1/4"

NOTE:
Dim. "A" adjustment per 10°F shown is measured perpendicular to ϕ Expansion Joint. Work this table with Design Standards Index No. 2110.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

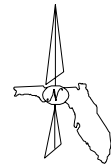
NAMES	DATES
DRAWN BY PDB	3/09
CHECKED BY PRS	3/09
DESIGNED BY IRR	3/09
CHECKED BY PRS	3/09
APPROVED BY PAUL R. STEIJLEN	

ENGINEER OF RECORD:
BRIDGE CONCEPTS, INC.
 CONSULTING ENGINEERS
 15100 HUTCHINSON ROAD, SUITE 105
 TAMPA, FL 33625
 CERTIFICATE OF AUTHORIZATION NO. 9765
 PAUL R. STEIJLEN, PE, #44780

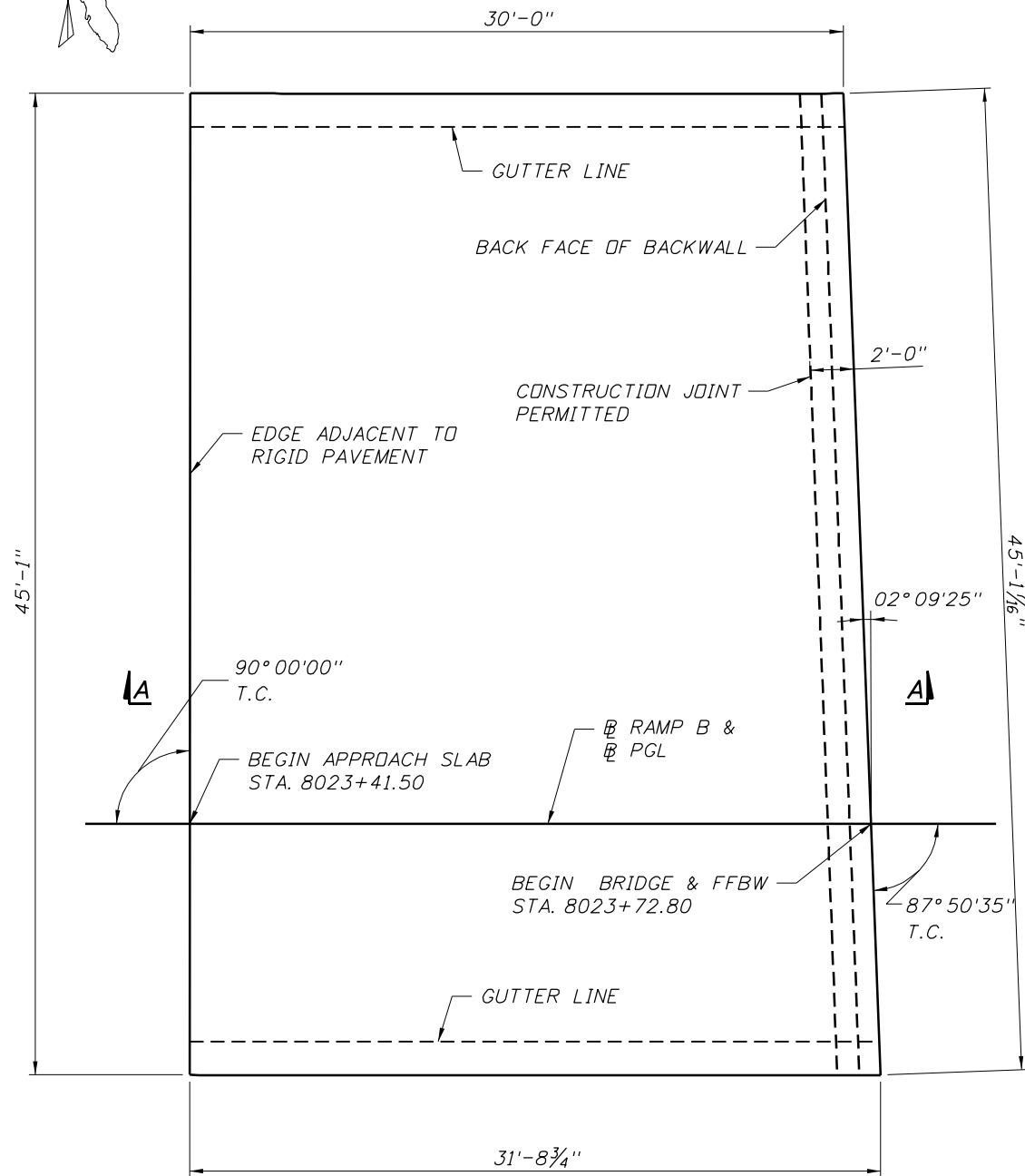
CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

BRIDGE NO. 100732	
SHEET TITLE: DIAPHRAGM DETAILS	
PROJECT NAME:	SHEET NO.
1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)	BI-14

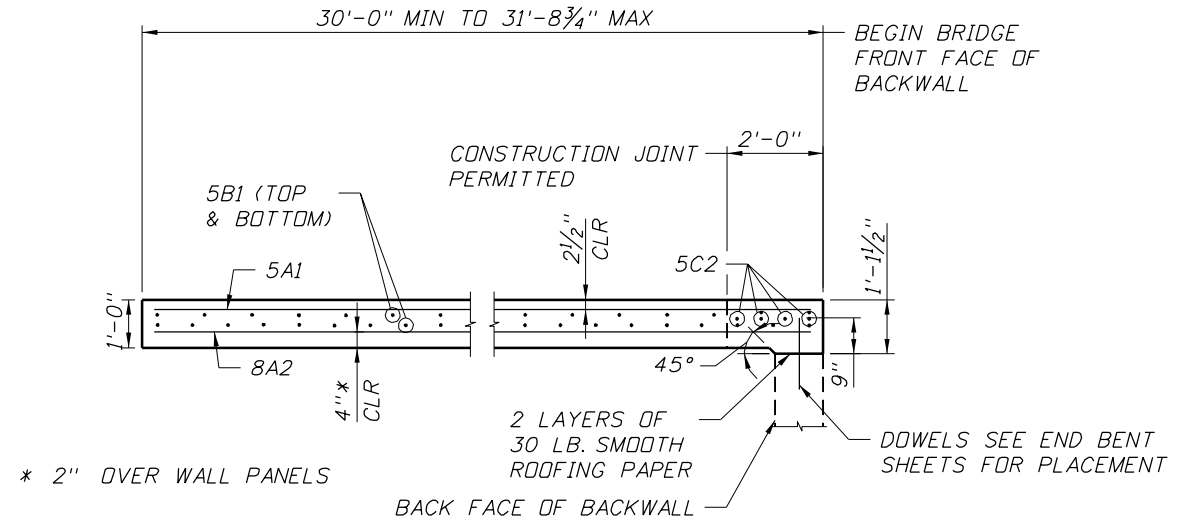
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



Direction of Stationing



PLAN



SECTION A-A

(SEE INDEX No. 20910 FOR ADDITIONAL DETAILS)

APPROACH SLAB INDEX NO. 20910 TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES								
LOCATION	DIMENSIONS					ANGLE ϕ	REINFORCING STEEL (Lbs.)	CLASS II CONCRETE (C.Y.)
	L 1	L 2	M1	M2	N			
END BENT 1 (BEGIN BRIDGE)	31'-8 3/4"	30'-0"	1'-6 1/2"	1'-6 1/2"	42'-0"	02° 09' 25"	9,218	51.78

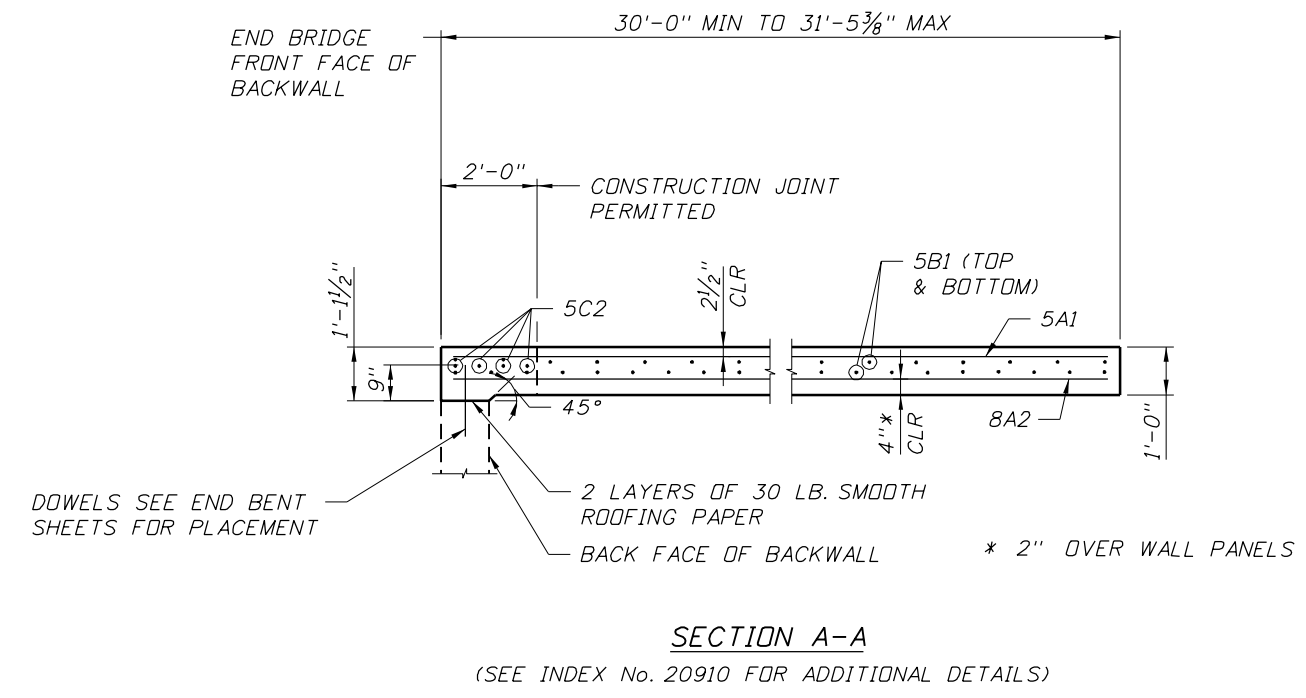
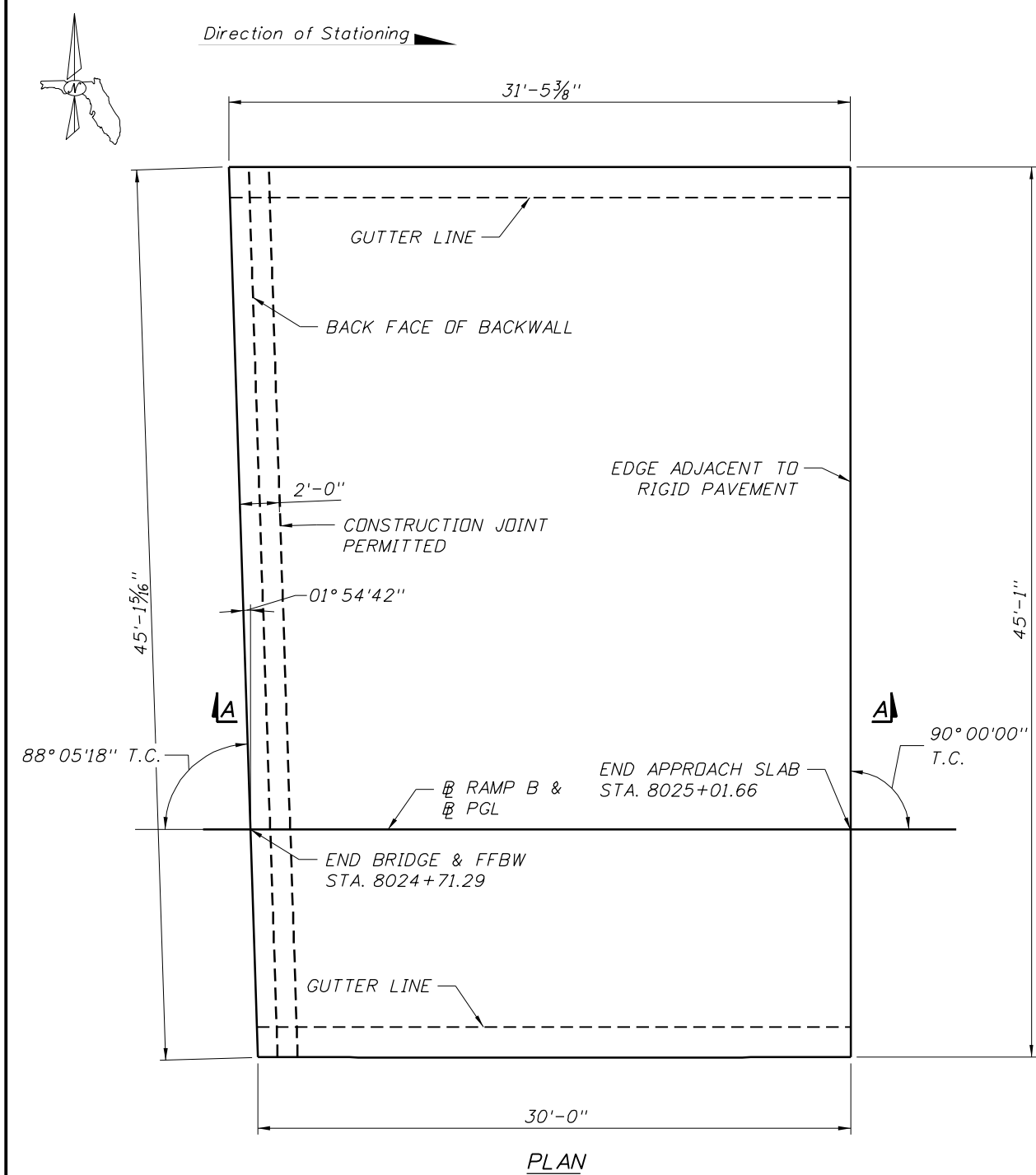
Dimension and Quantity Notes:
 Dimensions 'L 1' & 'L 2' are arc dimensions within curved alignments.

Quantities shown are for one Approach Slab and where applicable, raised sidewalks. Quantities do not include items placed on the slab such as Traffic Railing, Pedestrian/Bicycle Railings or Traffic Separators.

For Traffic Railing, Pedestrian/Bicycle Railing and Traffic Separator Quantities see Bid Item List.

<table border="1"> <thead> <tr> <th colspan="6">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						REVISIONS						DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<table border="1"> <thead> <tr> <th>DATE</th> <th>NAMES</th> <th>DATES</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DATE	NAMES	DATES				<p>ENGINEER OF RECORD:</p> <p>BRIDGE CONCEPTS, INC. <small>CONSULTING ENGINEERS</small> 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9765 PAUL R. STEIJLEN, PE #44780</p>	<table border="1"> <thead> <tr> <th colspan="3">CORE</th> </tr> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>SR 400</td> <td>HILLSBOROUGH</td> <td>258415-2-52-01</td> </tr> </tbody> </table>	CORE			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	HILLSBOROUGH	258415-2-52-01	<p>SHEET TITLE:</p> <p>BRIDGE NO. 100732</p> <p>APPROACH SLAB 1</p>	<p>PROJECT NAME:</p> <p>1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)</p>	<p>SHEET NO.</p> <p>BI-15</p>
REVISIONS																																												
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																																							
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SR 400	HILLSBOROUGH	258415-2-52-01																																										

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APPROACH SLAB INDEX NO. 20910 TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES

LOCATION	DIMENSIONS					ANGLE ϕ	REINFORCING STEEL (Lbs.)	CLASS II CONCRETE (C.Y.)
	L 1	L 2	M1	M2	N			
END BENT 2 (END BRIDGE)	31'-5 3/8"	30'-0"	1'-6 1/2"	1'-6 1/2"	42'-0"	01° 54' 42"	9,193	51.52

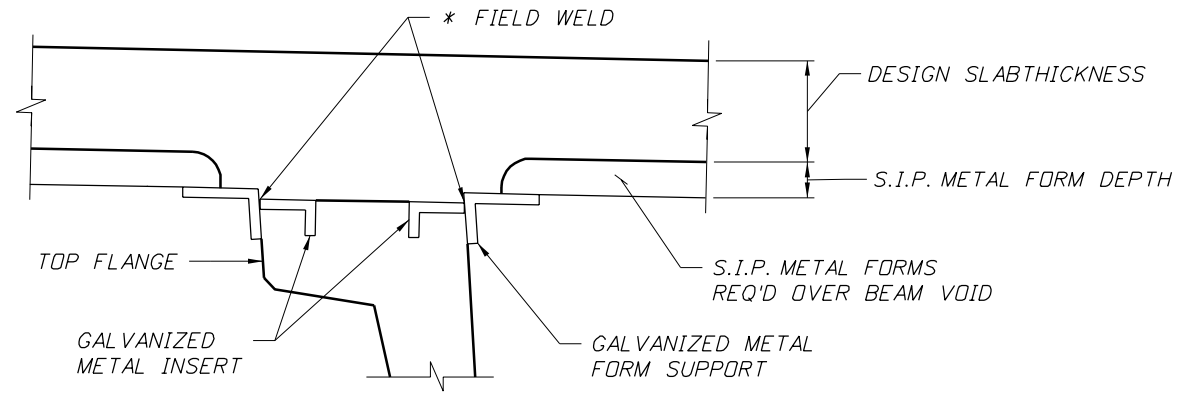
*Dimension and Quantity Notes:
Dimensions 'L 1' & 'L 2' are arc dimensions within curved alignments.*

Quantities shown are for one Approach Slab and where applicable, raised sidewalks. Quantities do not include items placed on the slab such as Traffic Railing, Pedestrian/Bicycle Railings or Traffic Separators.

For Traffic Railing, Pedestrian/Bicycle Railing and Traffic Separator Quantities see Bid Item List.

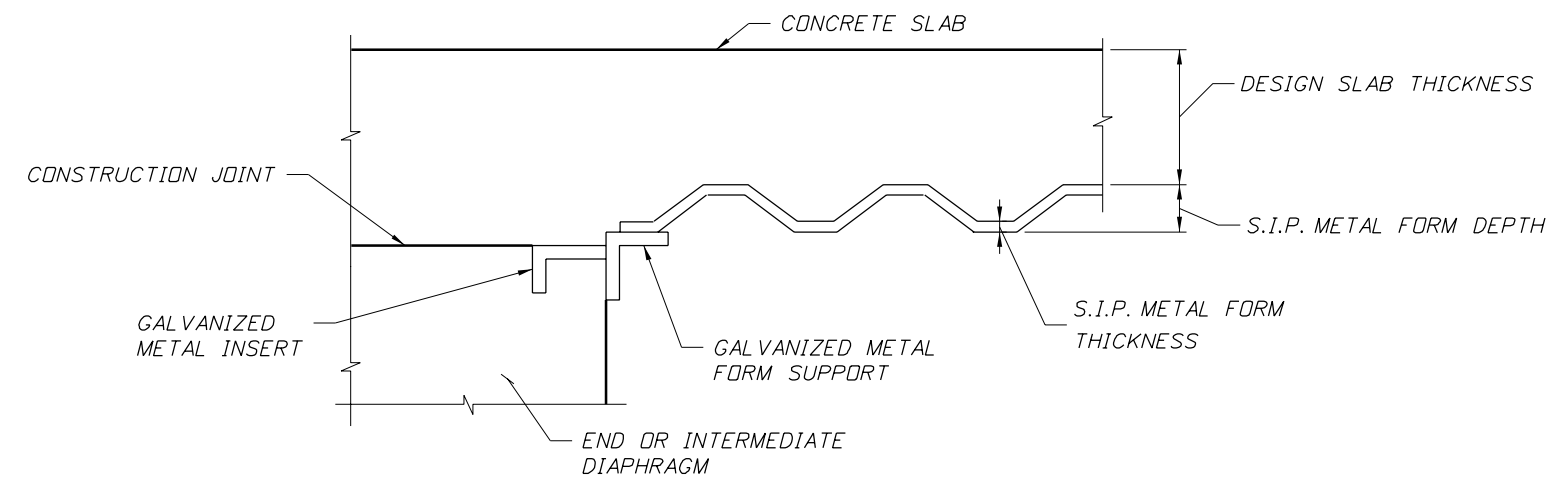
REVISIONS						CORE			BRIDGE NO. 100732		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAME	DATE	FLORIDA DEPARTMENT OF TRANSPORTATION		
							PDB	3/09	APPROACH SLAB 2		
						CHECKED BY	PRS	3/09	SR 400 HILLSBOROUGH 258415-2-52-01		
						DESIGNED BY	IRR	3/09	PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)		
						CHECKED BY	PRS	3/09	SHEET NO. BI-16		
						APPROVED BY	PAUL R. STEIJLEN		ENGINEER OF RECORD: BRIDGE CONCEPTS, INC.		
						 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9785 PAUL R. STEIJLEN, PE #44780			SHEET TITLE:		

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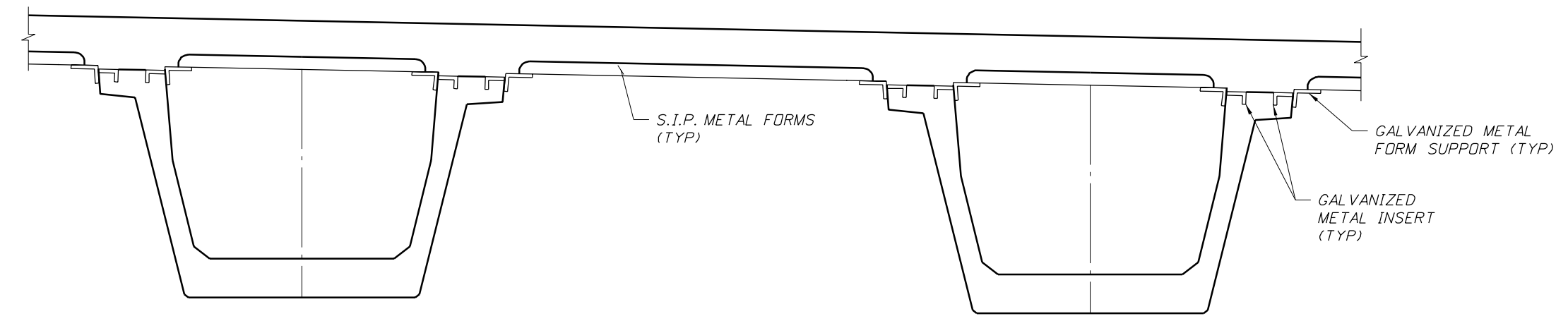


TOP FLANGE DETAIL

* NOTE: ELECTRICAL GROUNDING TO REINFORCING STEEL IS PROHIBITED.



PARTIAL SECTION THRU DIAPHRAGM



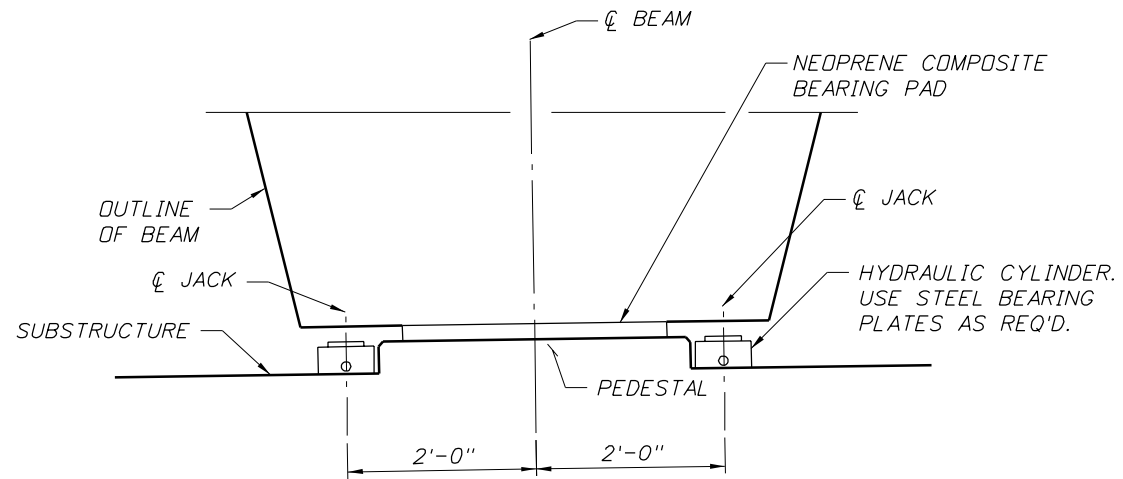
**PARTIAL TYPICAL SECTION
FLORIDA U-BEAM DETAILS**

BRIDGE NO. 100732

REVISIONS						ENGINEER OF RECORD:			CORE			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			STAY-IN-PLACE METAL FORM DETAILS		
						DRAWN BY	PDB	3/09	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						CHECKED BY	PRS	3/09	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)	BI-17
						DESIGNED BY	IRR	3/09					
						CHECKED BY	PRS	3/09					
						APPROVED BY	PAUL R. STEIJLEN						

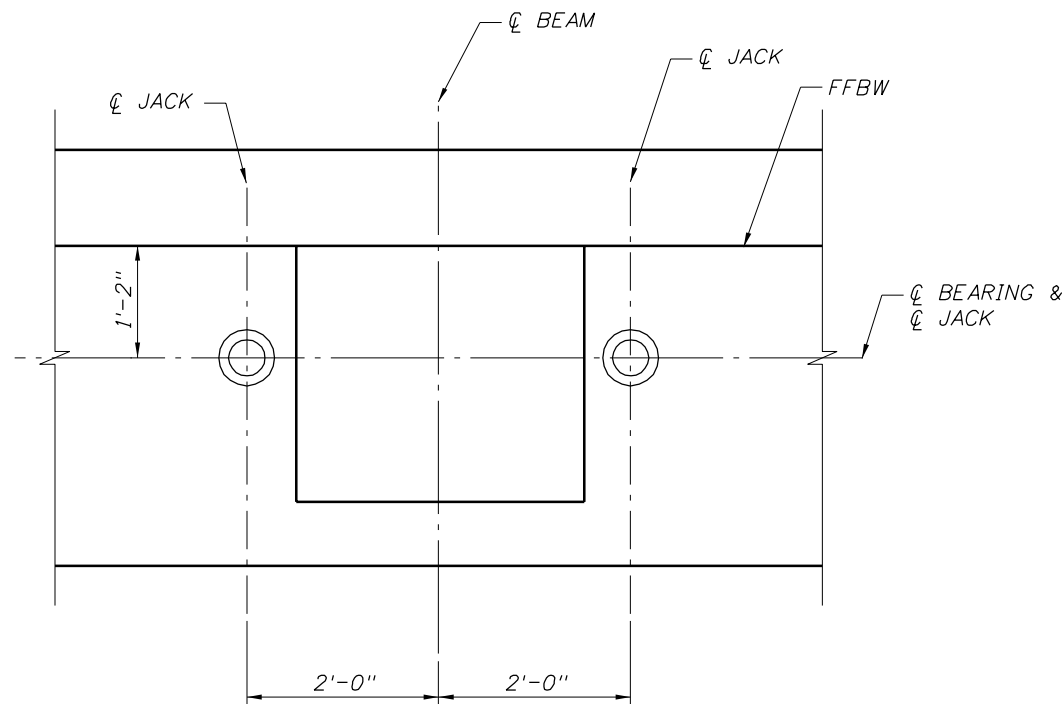
BRIDGE CONCEPTS, INC.
CONSULTING ENGINEERS
15100 HUTCHINSON ROAD, SUITE 105
TAMPA, FL 33625
CERTIFICATE OF AUTHORIZATION NO. 9765
PAUL R. STEIJLEN, PE #44780

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



U-BEAM BEARING PAD REPLACEMENT DETAIL

MAXIMUM SERVICE LOAD PER JACK (kips)			
LOCATION	DEAD LOAD (kips)	LIVE LOAD + IMPACT (kips)	JACKING LOAD (kips)
RAMP B OVER 26TH ST.	104	81	185



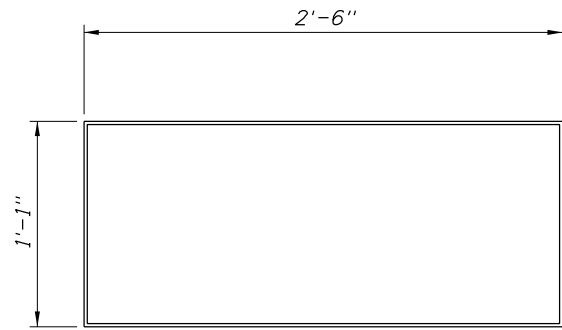
PLAN VIEW

FUTURE BEARING REPLACEMENT

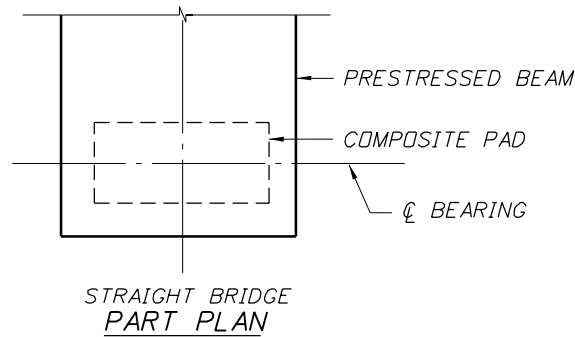
1. DETAILS SHOW POSITION OF LOW-PROFILE HYDRAULIC CYLINDERS (FLAT JACKS) FOR FUTURE BEARING REPLACEMENT.
2. RAISE ALL BEAMS AT A SPAN END SIMULTANEOUSLY (NO DIFFERENTIAL DISPLACEMENT BETWEEN BEAMS PERMITTED).
3. MAXIMUM ESTIMATED SERVICE LOAD PER JACK, WITH LIVE LOAD PLUS IMPACT, IS SHOWN IN THE TABLE.
4. A MINIMUM BEARING AREA SHALL BE PROVIDED FOR THE JACK IN ORDER TO LIMIT THE BEARING STRESS ON THE CONCRETE IN ACCORDANCE WITH THE AASHTO LRFD SECTION 5.7.5.
5. JACKS SHALL BE EQUIPPED WITH A LOCKING RING, WHICH WILL PREVENT MOVEMENT IN THE EVENT THAT HYDRAULIC PRESSURE IS LOST. JACKS SHALL ALSO BE LOCKED OFF PRIOR TO REMOVAL OF ANY BEARING.
6. BEARING REPLACEMENT IS NOT PART OF THE CONTRACT AND DOES NOT NEED TO BE PROVIDED BY THE CONTRACTOR.
7. TRAFFIC IS PERMITTED ON BRIDGE DURING JACKING.

REVISIONS						ENGINEER OF RECORD:			CORE			BRIDGE NO. 100732	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BEARING REPLACEMENT		
						DRAWN BY	PDB	3/09	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)	
						CHECKED BY	PRS	3/09	SR 400	HILLSBOROUGH	258415-2-52-01	SHEET NO. BI-18	
						DESIGNED BY	IRR	3/09					
						CHECKED BY	PRS	3/09					
						APPROVED BY	PAUL R. STEIJLEN						

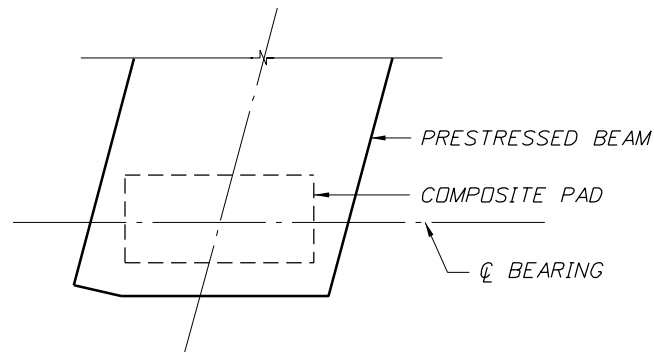
BRIDGE CONCEPTS, INC.
CONSULTING ENGINEERS
15100 HUTCHINSON ROAD, SUITE 105
TAMPA, FL 33625
CERTIFICATE OF AUTHORIZATION NO. 9765
PAUL R. STEIJLEN, PE #44780



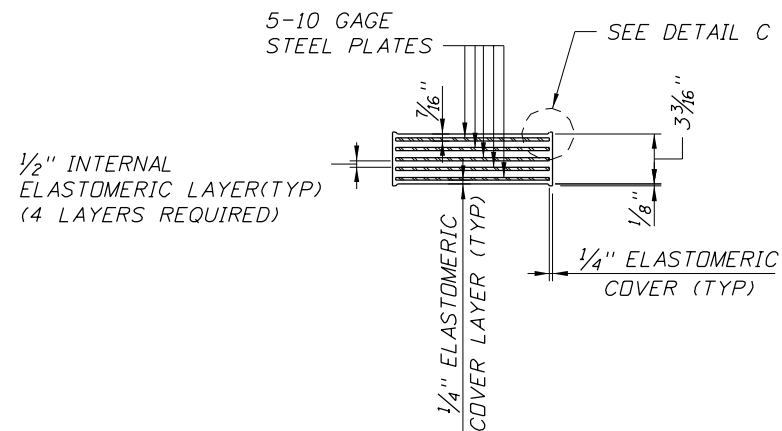
COMPOSITE PAD TYPE U-54
PLAN



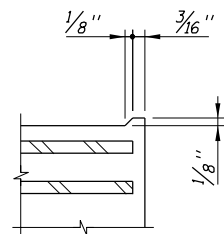
STRAIGHT BRIDGE
PART PLAN



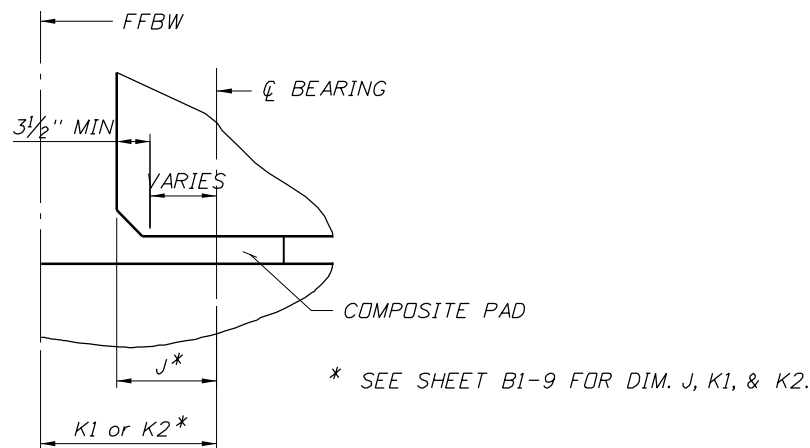
SKewed BRIDGE
PART PLAN



TYPICAL SECTION



DETAIL C



TYPICAL PAD DETAIL
PART SIDE ELEVATION (ALONG ϕ BRG)

BEARING PAD NOTES

NEOPRENE IN ALL BEARING PADS SHALL HAVE A GRADE 50 DUREMETER HARDNESS.
 STEEL PLATES IN COMPOSITE PADS SHALL CONFORM TO ASTM A1011 GRADE 36, TYPE 1.
 VARIATIONS IN PAD DIMENSIONS WILL BE ALLOWED PROVIDED REVISED PADS WILL MEET THE CURRENT SPECIFICATIONS AND ARE APPROVED BY THE ENGINEER.
 BEARING SEAT SHALL BE FINISHED LEVEL. FOR BEAM GRADES LESS THAN 2% BEVELED BEARING PLATES ARE NOT REQUIRED.
 FOR BEAM GRADES GREATER THAN 2% BEVELED BEARING PLATES ARE REQUIRED.

BEARING PAD SUMMARY TABLE	
LOCATION	NO. REQ'D.
RAMP B OVER 26TH ST.	6

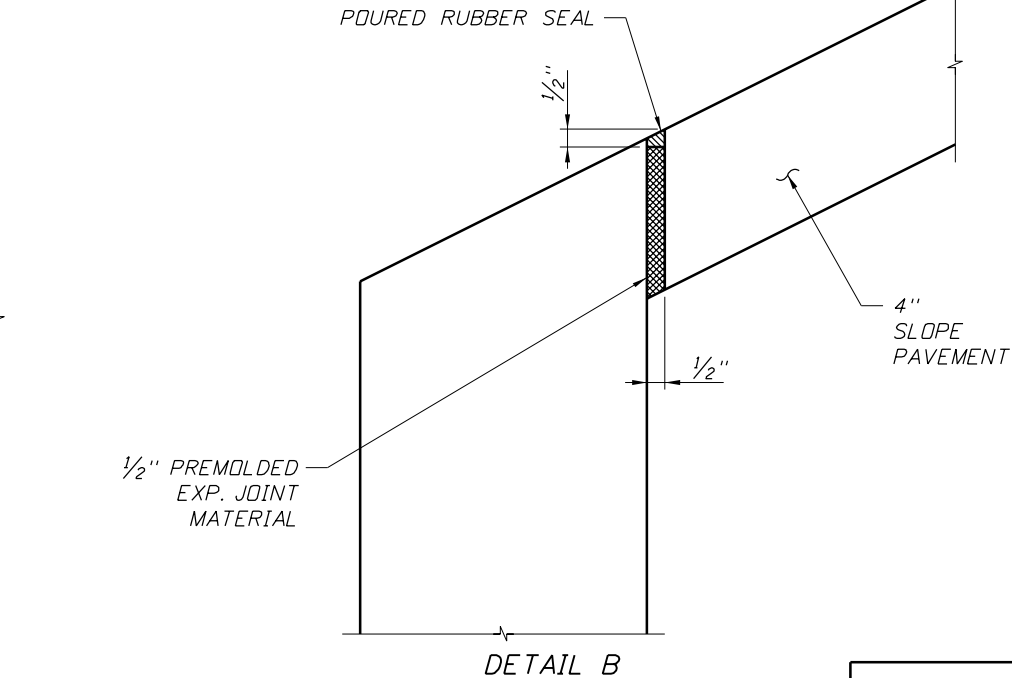
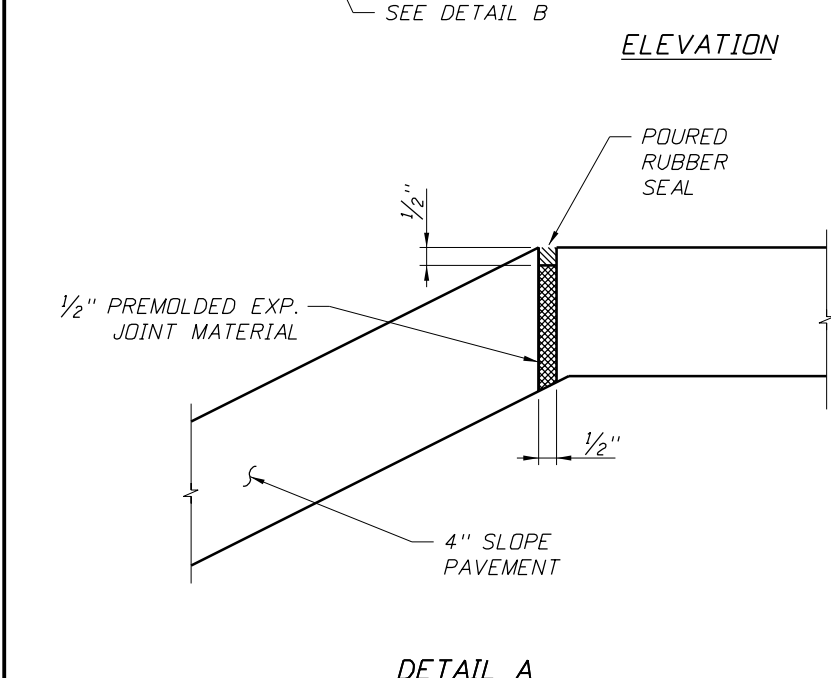
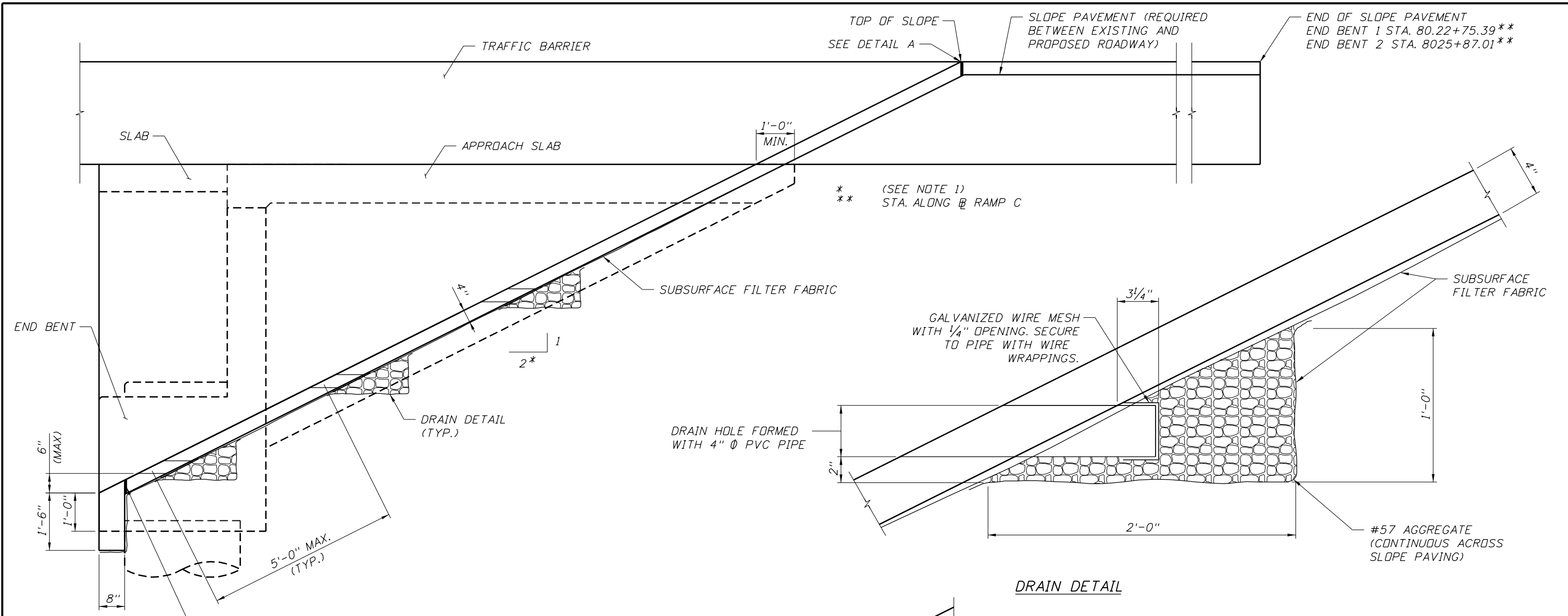
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE
DRAWN BY PDB	3/09
CHECKED BY PRS	3/09
DESIGNED BY IRR	3/09
CHECKED BY PRS	3/09
APPROVED BY PAUL R. STEIJLEN	

ENGINEER OF RECORD
BRIDGE CONCEPTS, INC.
 CONSULTING ENGINEERS
 15100 HUTCHINSON ROAD, SUITE 105
 TAMPA, FL 33625
 CERTIFICATE OF AUTHORIZATION NO. 9785
 PAUL R. STEIJLEN, PE, #44780

CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		SHEET NO.
NEOPRENE BEARING PADS		
PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)		BI-19



** (SEE NOTE 1)
** STA. ALONG RAMP C

DRAIN DETAIL

NOTES:

1. THE FILTER FABRIC SHALL BE TYPE D-6 IN ACCORDANCE WITH INDEX 199 OF ROADWAY AND TRAFFIC DESIGN STANDARDS WITH A.D.S. 0.212 TO 0.150 MILLIMETERS.
2. THE COST OF HOLES, WIRE MESH, FABRIC FILTER AND AGGREGATE TO BE INCLUDED IN THE COST OF CONCRETE SLOPE PAVEMENT (4" THICK).
3. ALL CONSTRUCTION JOINTS WITHIN THE SLOPE PAVEMENT SHALL BE SEALED WITH POURED RUBBER MATERIAL. ALL COST FOR SUPPLYING AND PLACING THE POURED RUBBER SHALL BE INCLUDED IN PAY ITEM 524-2-2.
4. THE TYPICAL DETAILS FOR CONCRETE SLOPE PAVEMENT SHALL BE USED TO REPLACE THE SLOPE PAVEMENT WHICH HAS BEEN REMOVED AND FOR NEW SLOPE PAVEMENT.
5. SLOPE AND DIMENSION SHOWN ARE TYPICAL DETAILS. ADJUST TO MATCH EXISTING.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE
DRAWN BY PDB	3/09
CHECKED BY PRS	3/09
DESIGNED BY IRR	3/09
CHECKED BY PRS	3/09
APPROVED BY PAUL R. STEIJLEN	

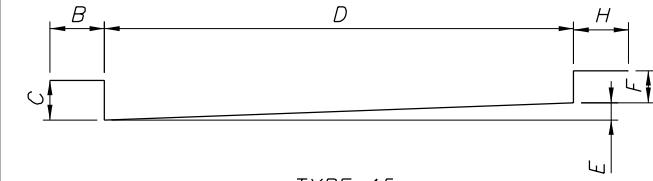
ENGINEER OF RECORD:
BRIDGE CONCEPTS, INC.
 CONSULTING ENGINEERS
 15100 HUTCHINSON ROAD, SUITE 105
 TAMPA, FL 33625
 CERTIFICATE OF AUTHORIZATION NO. 9785
 PAUL R. STEIJLEN, PE #44780

CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		SHEET NO.
SLOPE PAVEMENT DETAILS		BI-20
PROJECT NAME:		
I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MARK	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	Ø																
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION										END BENT 1										NO. REQUIRED = 1										
11	E01	45-6		18	1																									
5	E03	45-6		8	1																									
5	E05	11-4		130	4	5	5	2-9 1/2		2-5																				
5	E06	6-2		184	1			6-1 1/2																						
4	E07	45-6		14	1			45-6																						
6	E09	4-9		6	18	1	1	3-4 1/4																						
6	E11	1-6		11	1			1-6																						
4	C01	6-1		8	1			6-1																						
4	C02	3-8		12	1			3-8																						
4	C03	3-4		4	1			3-4																						
4	C04	4-2		6	1			4-2																						
4	C05	10-7		1	11			8-6 1/4	1-0	1-0																				
5	R01	4-11		15	11			2-4	1-3 1/2	1-3 1/2																				
5	R02	4-7		15	11			2-0	1-3 1/2	1-3 1/2																				
4	W01	7-1		8	1			7-0 1/2																						
4	W02	VARY		13	11			0-4	0-11	0-11																				
		8-2		0	11			0-4	6-11	6-11																				
4	W03	3-8		13	11			0-4	1-8	1-8																				
6	W04	VARY		16	1			4-1																						
		10-8		0	1			17-3																						
6	W05	16-10		2	1			16-10																						
6	W06	3-11		12	10			2-3	1-8																					
LOCATION										END BENT 2										NO. REQUIRED = 1										
11	E02	45-6		18	1			45-6																						
5	E04	45-6		8	1			45-6																						
5	E05	11-4		130	4	5	5	2-9 1/2		2-5																				
5	E06	6-2		184	1			6-1 1/2																						
4	E08	45-6		14	1			45-6																						
6	E10	4-10		6	18	1	1	3-5 1/2																						
6	E11	1-6		11	1			1-6																						
4	C01	6-1		8	1			6-1																						
4	C02	3-8		12	1			3-8																						
4	C03	3-4		4	1			3-4																						
4	C04	4-2		6	1			4-2																						
4	C05	10-7		1	11			8-6 1/4	1-0	1-0																				
5	R01	4-11		15	11			2-4	1-3 1/2	1-3 1/2																				
5	R02	4-7		15	11			2-0	1-3 1/2	1-3 1/2																				
4	W01	7-1		8	1			7-0 1/2																						
4	W02	VARY		13	11			0-4	0-11	0-11																				
		8-2		0	11			0-4	6-11	6-11																				
4	W03	3-8		13	11			0-4	1-8	1-8																				
6	W04	VARY		16	1			4-1																						
		10-8		0	1			17-3																						
6	W05	16-10		2	1			16-10																						
6	W06	3-11		12	10			2-3	1-8																					



TYPE 45

REVISIONS			
DATE	BY	DESCRIPTION	

NAME	DATES
DRAWN BY: PDB	3/09
CHECKED BY: PRS	3/09
DESIGNED BY: IRR	3/09
CHECKED BY: PRS	3/09
APPROVED BY: PAUL R. STEIJLEN	

ENGINEER OF RECORD:
BRIDGE CONCEPTS, INC.
 CONSULTING ENGINEERS
 15100 HUTCHINSON ROAD, SUITE 105
 TAMPA, FL 33625
 CERTIFICATE OF AUTHORIZATION NO. 9785
 PAUL R. STEIJLEN, PE #44780

CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		SHEET NO.
REINFORCING BAR LIST (1 OF 2)		BI-21
PROJECT NAME:		
I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)		

BRIDGE NO. 100732

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

MARK	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	Ø													
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION SUPERSTRUCTURE													NO. REQUIRED = 1														
4	S01	99-7		121	2			1-9	97-9 1/2																	1	
5	S02	44-10		380	1			44-9 1/2																			
5	S03	8-10		380	17	1		8-3																			
4	S04	3-3		99	29			0-0	1-2	1-0 3/4	1-0																62
4	S05	3-1		99	29			0-0	1-1 1/2	0-10 3/4	1-0																66
6	D01	44-10		10	1			44-9 1/2																			
5	D02	8-7		16	1			8-7																			
6	D03	12-0		20	45			1-0	0-8 3/4	8-7	0-3 1/4	0-7	1-0														
4	D04	4-11		40	4	5	5	0-8 1/2	1-4 1/2																		
4	D05	5-10		40	9	5	5	2-0 1/2	0-8 1/2	0-8 1/2	1-4																
LOCATION APPROACH SLAB 1													NO. REQUIRED = 1														
5	A1	VARY		46	1			29-8																			
		30-7		0	1			31-4 1/2																			
8	A2	VARY		46	1			29-8																			
		30-7		0	1			31-4 1/2																			
5	B1	44-9		75	1			44-9																			
5	C1	5-0		61	1			5-0																			
5	C2	44-9		4	1			44-9																			
LOCATION APPROACH SLAB 2													NO. REQUIRED = 1														
5	A1	VARY		46	1			29-8																			
		30-5		0	1			31-1																			
8	A2	VARY		46	1			29-8																			
		30-5		0	1			31-1																			
5	B1	44-9		75	1			44-9																			
5	C1	5-0		61	1			5-0																			
5	C2	44-9		4	1			44-9																			

REVISIONS						ENGINEER OF RECORD:		CORE			BRIDGE NO. 100732	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:
						CHECKED BY	BRIDGE CONCEPTS, INC.	3/09	SR 400 HILLSBOROUGH 258415-2-52-01			REINFORCING BAR LIST (2 OF 2)
						DESIGNED BY	CONSULTING ENGINEERS	3/09	PROJECT NAME:			SHEET NO.
						CHECKED BY	15100 HUTCHINSON ROAD, SUITE 105	3/09	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE			
						APPROVED BY	TAMPA, FL 33625		(RAMP B OVER 26TH ST.)			BI-22
							CERTIFICATE OF AUTHORIZATION NO. 9785					
							PAUL R. STEIJLEN, PE #44780					

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

Load Summary Rating Details for Prestressed Concrete Bridges (Flat Slab and Deck/Girder)

Table Date 01-01-07

LRFR w/o Appendix D.6 (LFD)³

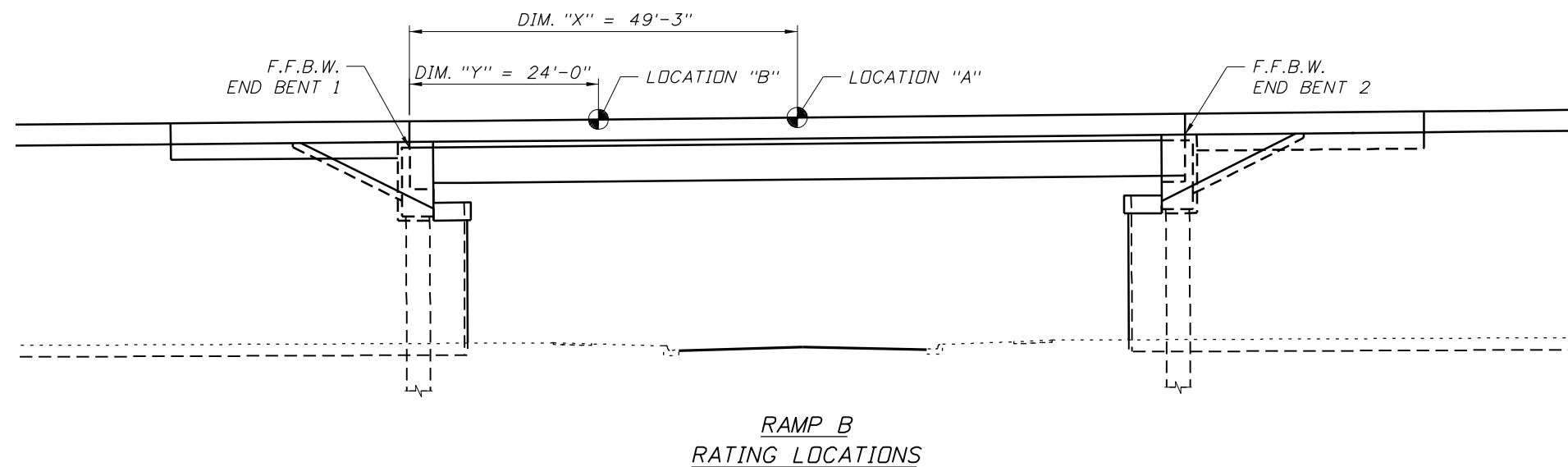
Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength) or Stress (Service)				Shear (Strength)				Comments:		
				LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons		Location	Dimension
Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	1.05	1.58	N/A	A	X	1.36	2.40	N/A	B	Y	Int. Beam
	Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	1.05	2.05	N/A	A	X	1.36	3.11	N/A	B	Y	Int. Beam
	Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	1.05	1.42	N/A	A	X	N/A	N/A	N/A	N/A	N/A	Int. Beam
	Service III (Op)	HL-93	N/A	0.80	1.00	1.00	1.05	1.60	N/A	A	X	N/A	N/A	N/A	N/A	N/A	Int. Beam
Legal Load Rating	Strength I	SU4	35.0	1.35	1.25	1.50	-	-	-	-	-	-	-	-	-	-	-
	Strength I	C5	40.0	1.35	1.25	1.50	-	-	-	-	-	-	-	-	-	-	-
	Strength I	ST5	40.0	1.35	1.25	1.50	-	-	-	-	-	-	-	-	-	-	-
	Service III	SU4	35.0	0.80	1.00	1.00	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	-
	Service III	C5	40.0	0.80	1.00	1.00	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	-
	Service III	ST5	40.0	0.80	1.00	1.00	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	-
Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	1.05	1.81	108	A	X	1.36	2.61	156	B	Y	Int. Beam
	Service III	FL120	60.0	0.70	1.00	1.00	1.05	1.65	99	A	X	N/A	N/A	N/A	N/A	N/A	Int. Beam

General Notes:

1. This table is based on the requirements established in the January 2007 "Structures Manual".

Table 2 Notes:

- Permit capacity is determined by using the permit vehicle in all lanes.
- If the Design Operating Load Rating is greater than 1, Load Rating using Legal Vehicles SU4, C5, and ST5 is not required.
- Service III Design Inventory tensile stress limits = $6\sqrt{f_c}$. Service III Design Operating, Legal, and Permit tensile stress limits = $7.5\sqrt{f_c}$.
- Has the AASHTO LRFD Specifications Article 5.8.3.5 longitudinal reinforcement been satisfied? Yes No



Abbreviations:

- Inv - Inventory
Op - Operating

Controlling Load Rating			
Limit State	Vehicle	Weight (Tons)	Rating Factor
Service III (Inv)	HL-93	N/A	1.42

CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

BRIDGE NO. 100732

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

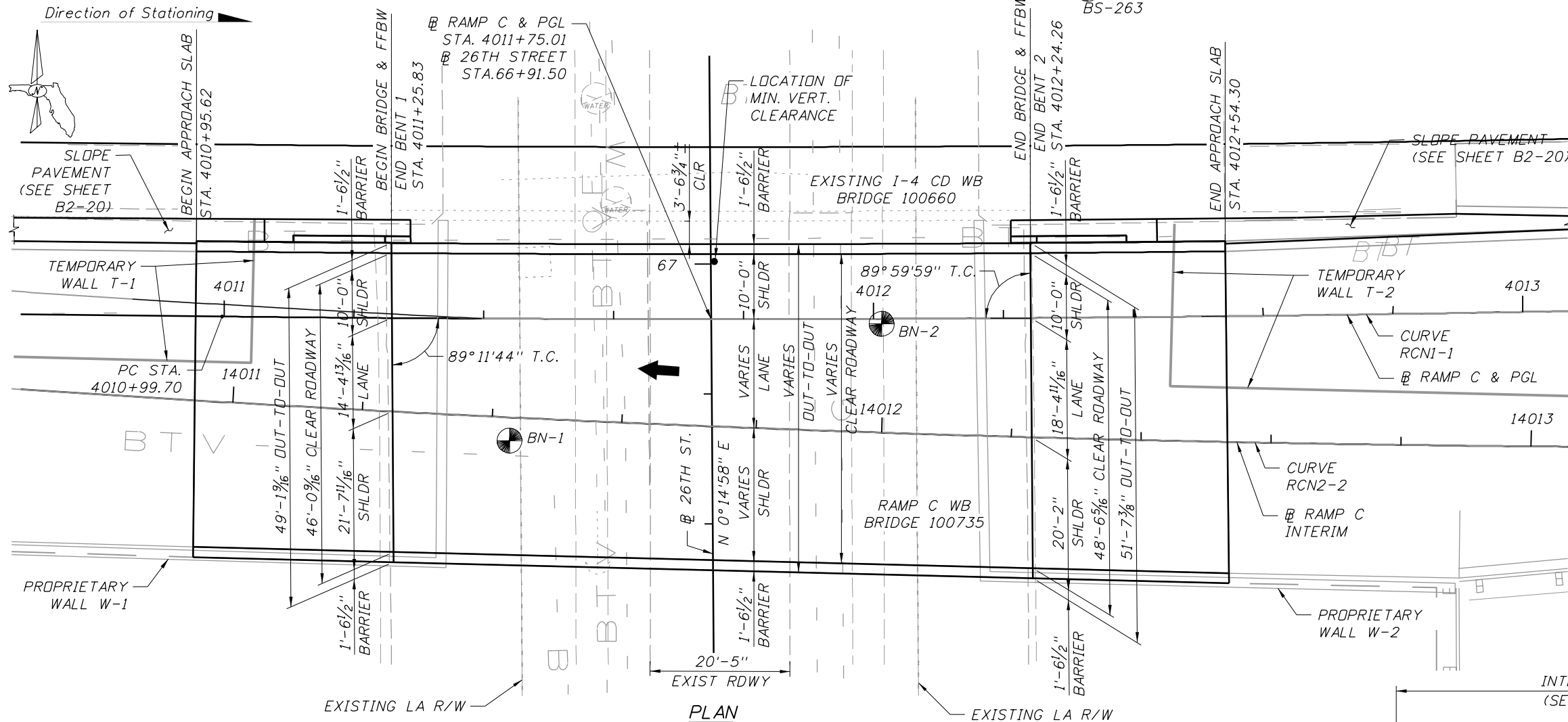
DRAWN BY	PDB	3/09
CHECKED BY	PRS	3/09
DESIGNED BY	IRR	3/09
CHECKED BY	PRS	3/09
APPROVED BY	PAUL R. STEIJLEN	

ENGINEER OF RECORD:

BRIDGE CONCEPTS, INC.
 CONSULTING ENGINEERS
 15100 HUTCHINSON ROAD, SUITE 105
 TAMPA, FL 33625
 CERTIFICATE OF AUTHORIZATION NO. 9765
 PAUL R. STEIJLEN, PE #44780

SHEET TITLE:		LOAD RATING CHARTS
PROJECT NAME:	I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP B OVER 26TH ST.)	
SHEET NO.:	BI-23	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



TRAFFIC DATA - RAMP C

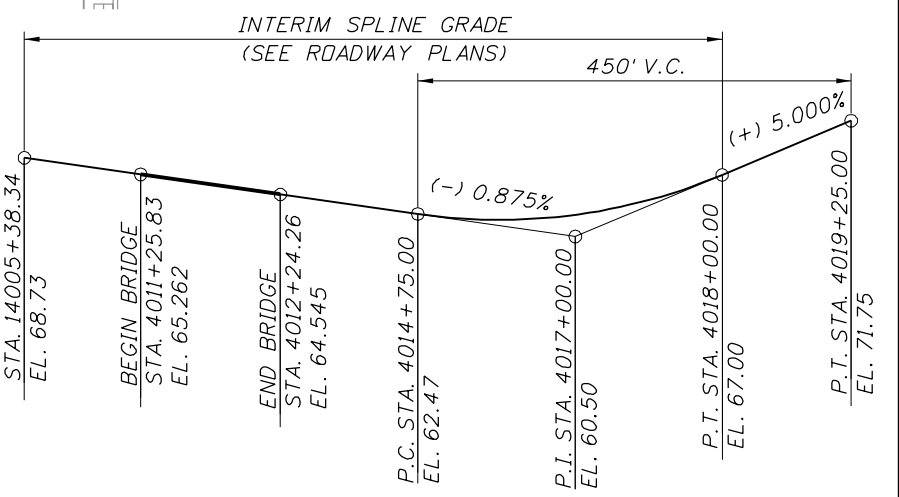
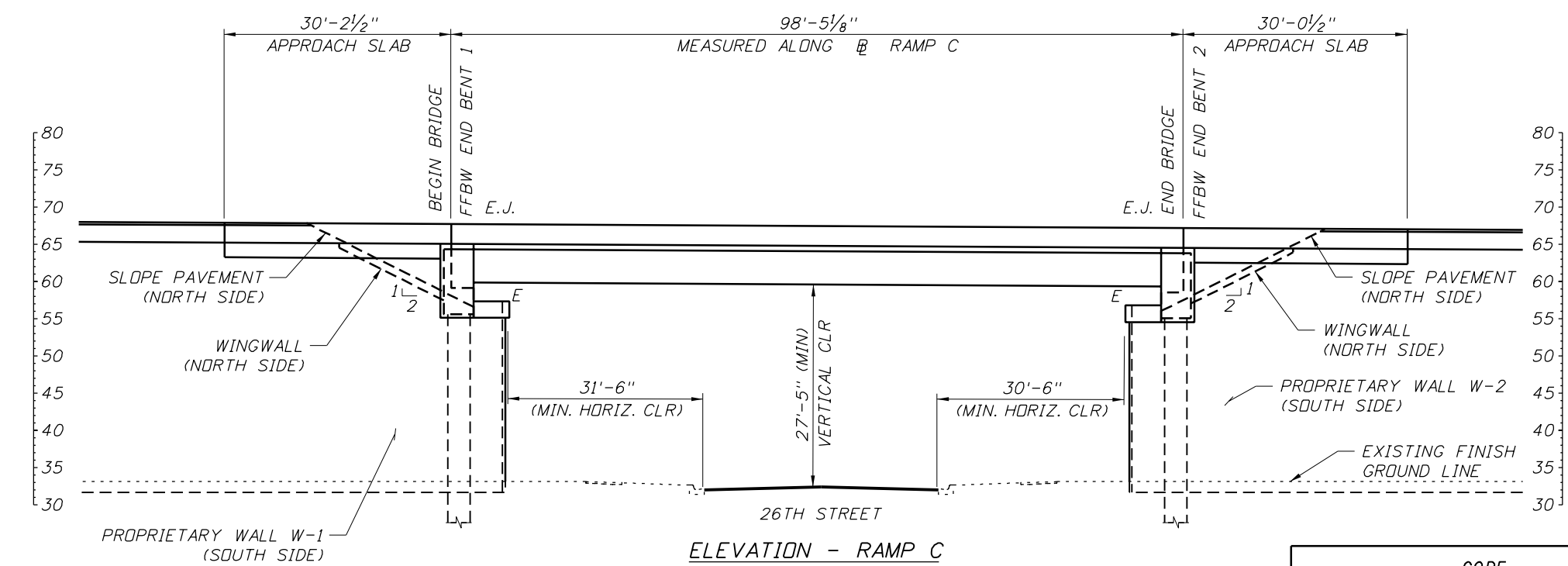
CURRENT YEAR ESTIMATE = N/A
 OPENING YEAR ESTIMATE - 2014 = 12,000
 DESIGN YEAR ESTIMATE - 2034 = 22,000
 K = 8.5% D = 100% T = 20% (24 HOUR)
 DESIGN SPEED = 50 MPH
 DESIGN HOUR T = N/A
 POSTED SPEED = 45 MPH

HORIZONTAL CURVE RCN1-1

P.I. STA. = 4013+25.52
 DELTA = 3° 41'16" LT
 T = 225.82'
 L = 451.48'
 R = 7014.68'
 PC STA. = 4010+99.70
 PT STA. = 4015+51.18
 e = 0.025

HORIZONTAL CURVE RCN2-2

P.I. STA. = 14012+71.45
 DELTA = 7° 58'06" LT
 T = 278.59'
 L = 556.29'
 R = 4000.00'
 PC STA. = 14009+92.85
 PT STA. = 14015+49.14
 e = -0.200



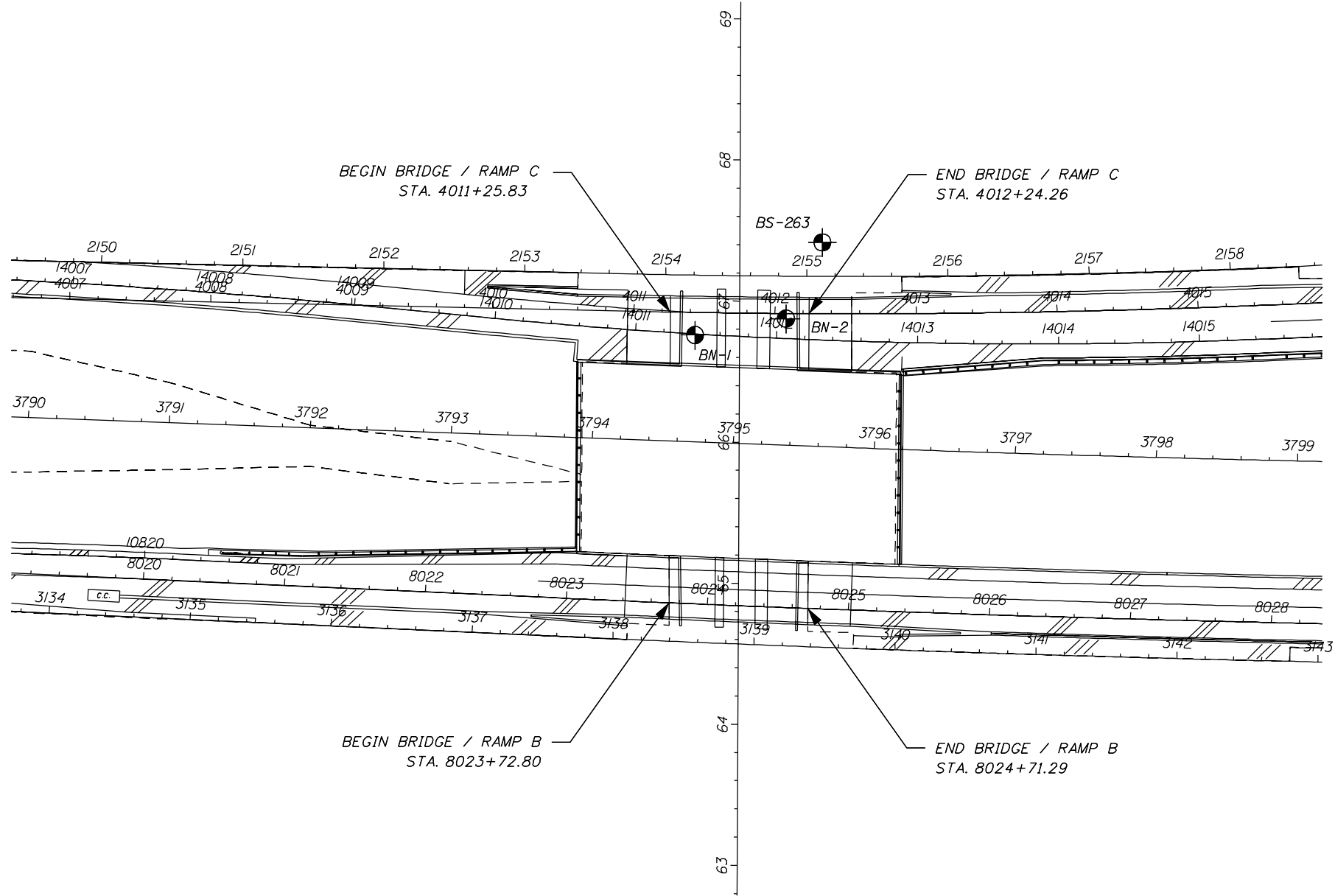
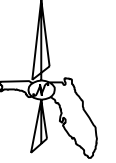
LEGEND:

E.J. - DENOTES EXPANSION JOINT
 E - DENOTES ELASTOMERIC BEARING
 ● - POINT OF MINIMUM VERTICAL CLEARANCE
 ⊕ - SOIL BORING LOCATION

NOTE:
 FOR KEY PLAN SEE SHEET B-2. BRIDGE NO. 100735

REVISIONS				NAMES		DATES		ENGINEER OF RECORD			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN AND ELEVATION	
								CORE			PROJECT NAME	
								SR 400			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
								HILLSBOROUGH			(RAMP C OVER 26TH ST.)	
								258415-2-52-01			SHEET NO.	
											B2-1	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.



LEGEND

APPROXIMATE SPT BORING LOCATION

REVISIONS						CORE			BRIDGE NO. 100735		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET TITLE		
						SR 400	HILLSBOROUGH	258415-2-52-01	REPORT OF CORE BORINGS (1 OF 2)		
DRAWN BY: DJG 11/08 CHECKED BY: KME 11/08 DESIGNED BY: KME 11/08 CHECKED BY: CLK 11/08 APPROVED BY: CHING L. KUO, Ph.D., P.E.						ENGINEER OF RECORD: PROFESSIONAL SERVICE INDUSTRIES, INC. 5801 BENJAMIN CENTER DR., SUITE 112 TAMPA, FL 33634 (813) 886-1075 FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684 CHING L. KUO, Ph.D., P.E. FLORIDA LICENSE No. 36115			PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE RAMP C OVER 26TH ST.		SHEET NO. B2-2

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

LEGEND

- (SP/SP-SM), GRAY-BROWN TO LIGHT TAN-SLIGHTLY SILTY FINE SAND TO FINE SAND
- (SM), BROWN TO DARK BROWN SILTY FINE SAND
- (SC), DARK BROWN TO GRAY CLAYEY FINE SAND
- (CL/CH), GRAY-BROWN OR BLUE-GREEN SANDY CLAY
- (WH), HIGHLY TO COMPLETELY WEATHERED TAN LIMESTONE
- (PT), DARK BROWN TO BLACK SANDY PEAT
- (WS), SLIGHTLY WEATHERED TAN LIMESTONE/DOLOMITE
- (CL), LIGHT GRAY TO BROWN SANDY CLAY
- (SM-SC), BROWN TO GRAY SLIGHTLY SILTY OR CLAYEY FINE SAND
- CHERT
- (ML/MH), TAN TO DARK GRAY SLIGHTLY SANDY SILT

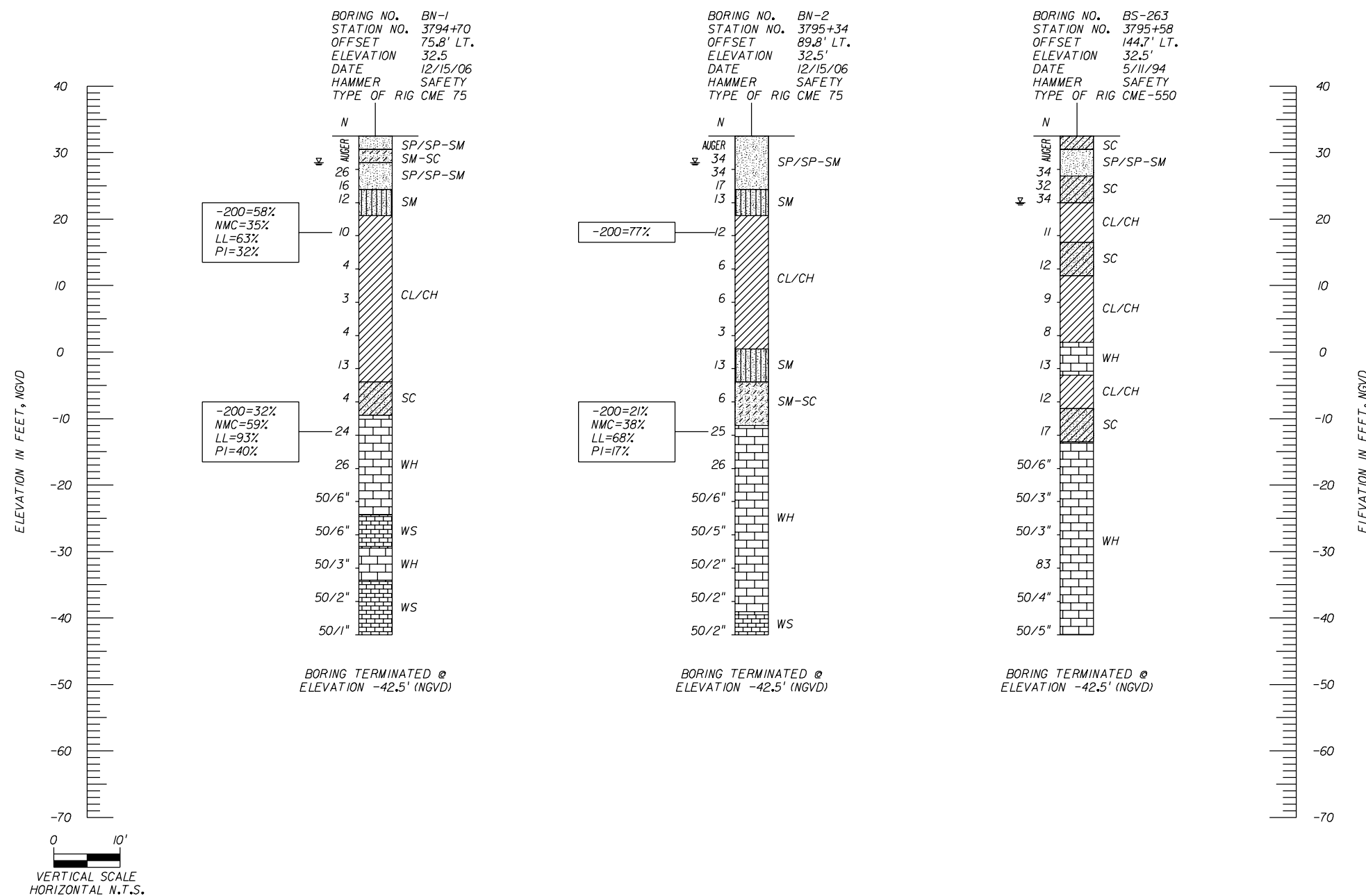
ENVIRONMENTAL CLASSIFICATION

- SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE
- SUBSTRUCTURE: STEEL: MODERATELY AGGRESSIVE (RESISTIVITY=2,700-3,000 OHMS-CM)
- CONCRETE: MODERATELY AGGRESSIVE (RESISTIVITY=2,700-3,000 OHMS-CM)

- SOIL**
- RESISTIVITY: 2,700-3,000 OHMS-CM
 - CHLORIDES: 60-120 PPM
 - SULFATES: < 3 PPM
 - pH: 7.9-8

GRANULAR MATERIALS-RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 4
LOOSE	5-10
MEDIUM	11-30
DENSE	31-50
VERY DENSE	GREATER THAN 50
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 2
SOFT	3-4
FIRM	5-8
STIFF	9-15
VERY STIFF	16-30
HARD	GREATER THAN 30

NOTES: ALL BORINGS ARE REFERENCED TO THE CENTERLINE OF CONSTRUCTION 1-4.
DIFFICULT DRILLING MAY BE ENCOUNTERED DUE TO THE PRESENCE OF CHERT LAYERS. SPECIAL TOOLS AND EQUIPMENT MAY BE REQUIRED TO PENETRATE THIS STRATUM.



STANDARD PENETRATION TEST

- NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.)
- ON THE LEFT SIDE OF A SOIL PROFILE WH INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD AND HAMMER
- NSR NO SAMPLE RECOVERED
- || CASING USED
- ← LOSS OF CIRCULATION (%)
- ← RECOVERY OF CIRCULATION (%)
- █ SHELBY TUBE SAMPLE LOCATION
- 50/6" FIFTY BLOWS FOR SIX INCHES
- WATER TABLE
- GNA GROUNDWATER LEVEL NOT APPARENT
- ON THE LEFT SIDE OF A SOIL PROFILE WR INDICATES THE SAMPLER FELL UNDER THE WEIGHT OF ROD

CORE DATA

- d ROCK CORE DIAMETER (INCHES)
- t ROCK CORE TIME
- RQD ROCK QUALITY DESIGNATION
- γ UNIT WEIGHT (PCF)
- q_u UNCONFINED COMPRESSION (PSI)
- q_{st} SPLIT TENSILE STRENGTH (PSI)

LAB RESULTS

- 200 FINES PASSING NO. 200 SIEVE (%)
- NMC NATURAL MOISTURE CONTENT (%)
- OC ORGANIC CONTENT (%)
- LL LIQUID LIMIT (%)
- PI PLASTICITY INDEX (%)
- NP NON PLASTIC

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAMES	DATES
DRAWN BY DJG	11/08
CHECKED BY KME	11/08
DESIGNED BY KME	11/08
CHECKED BY CLK	11/08
APPROVED BY CHING L. KUO, Ph.D., P.E.	

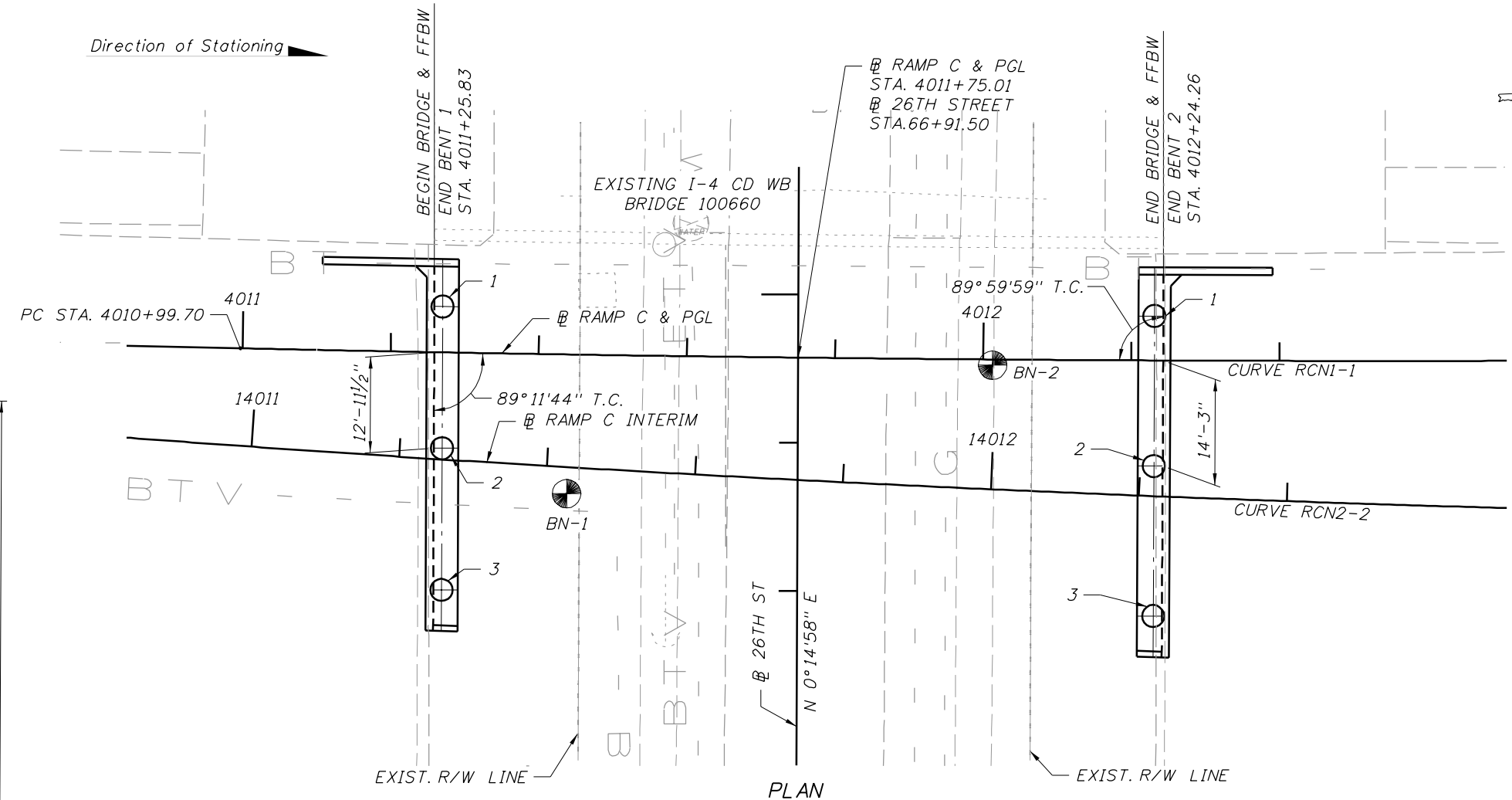
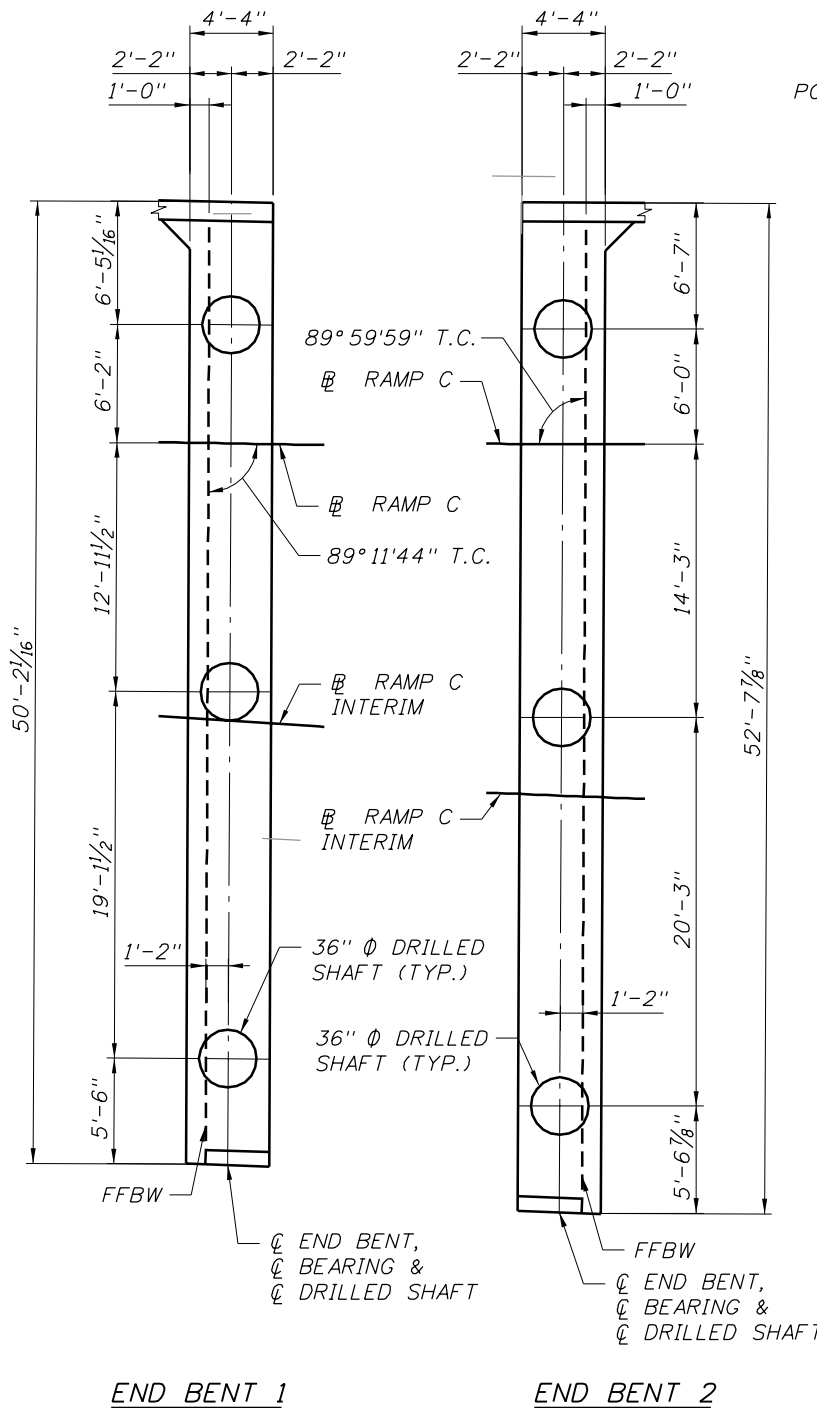
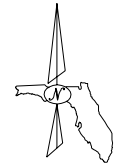
ENGINEER OF RECORD:
PROFESSIONAL SERVICE INDUSTRIES, INC.
5801 BENJAMIN CENTER DR., SUITE 112
TAMPA, FL 33634 (813) 886-1075
FLORIDA ENGINEERING CERTIFICATE OF AUTHORIZATION No. 3684
CHING L. KUO, Ph.D., P.E.
FLORIDA LICENSE No. 36115

CORE		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

BRIDGE NO. 100735	
SHEET TITLE: REPORT OF CORE BORINGS (2 OF 2)	
PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE RAMP C OVER 26TH ST.	SHEET NO. B2-3

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

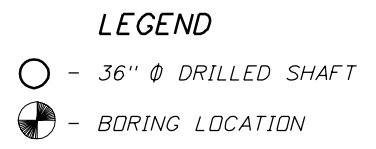
Direction of Stationing



DRILLED SHAFT DATA TABLE											
INSTALLATION CRITERIA						DESIGN CRITERIA				TESTING	
BENT NUMBER	SHAFT SIZE (IN.)	TIP ELEVATION (FT.)	*MIN. TIP ELEVATION (FT.)	TOP OF ROCK ELEV. (FT. NGVD)	**MIN. ROCK SOCKET LENGTH (FT.)	FACTORED DESIGN LOAD (Kips)	DOWN DRAG (Kips)	LONG TERM SCOUR ELEVATION (FT.)	100-YEAR SCOUR ELEVATION (FT.)	φ	*** CONSIDER NON-REDUNDANT
1	36	-27	N/A	-20	7	650	—	—	—	0.55	NO
2	36	-28	N/A	-20	8	750	—	—	—	0.55	NO

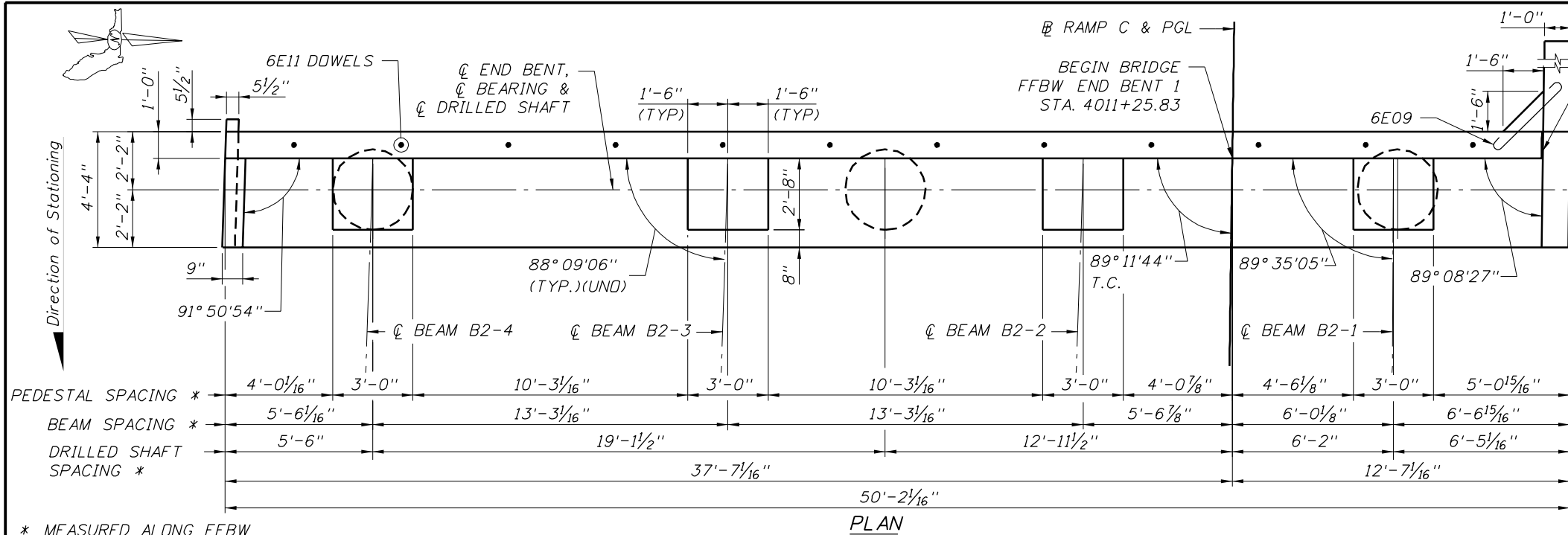
TIP ELEVATION: THE ELEVATION TO WHICH THE SHAFT SHALL BE CONSTRUCTED UNLESS LOAD TEST DATA, ROCK CORES, OR OTHER GEOTECHNICAL TEST DATA OBTAINED DURING CONSTRUCTION ALLOWS THE ENGINEER TO AUTHORIZE A DIFFERENT TIP ELEVATION.

- * MIN. TIP ELEVATION: THE HIGHEST ELEVATION THAT THE SHAFT TIP MAY BE CONSTRUCTED IF ADJUSTMENTS ARE MADE TO THE TIP ELEVATION.
- ** MIN. TOP OF ROCK SOCKET ELEVATION: ROCK ENCOUNTERED ABOVE THIS ELEVATION IS CONSIDERED UNSUITABLE FOR INCLUSION IN THE ROCK SOCKET LENGTH.
- *** INSPECT ALL NONREDUNDANT DRILLED SHAFT USING SID OR APPROVED ALTERNATE DOWN-HOLE CAMERA TO VERIFY SHAFT BOTTOM CLEANLINESS AT THE TIME OF CONCRETING. TEST ALL NONREDUNDANT DRILLED SHAFTS USING CROSS-HOLE-SONIC LOGGING (CSL).

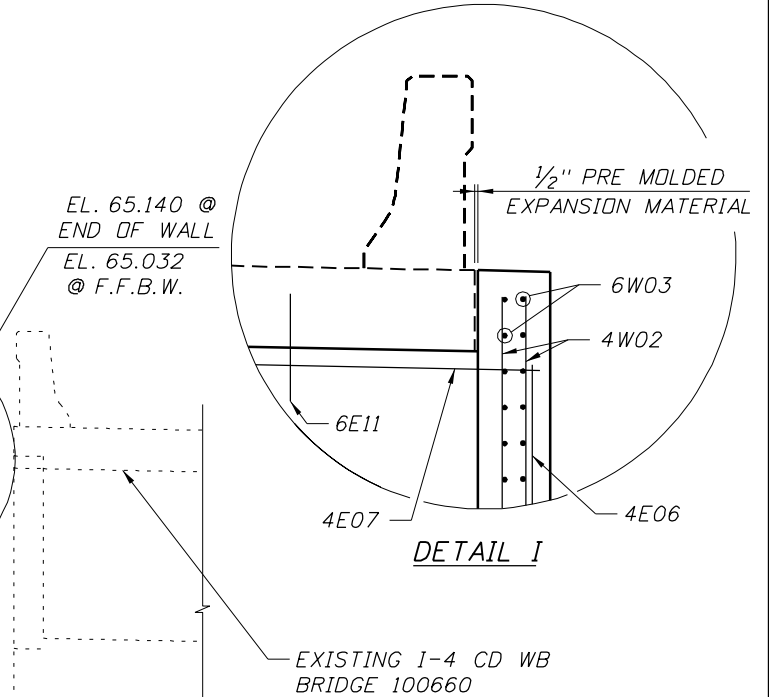
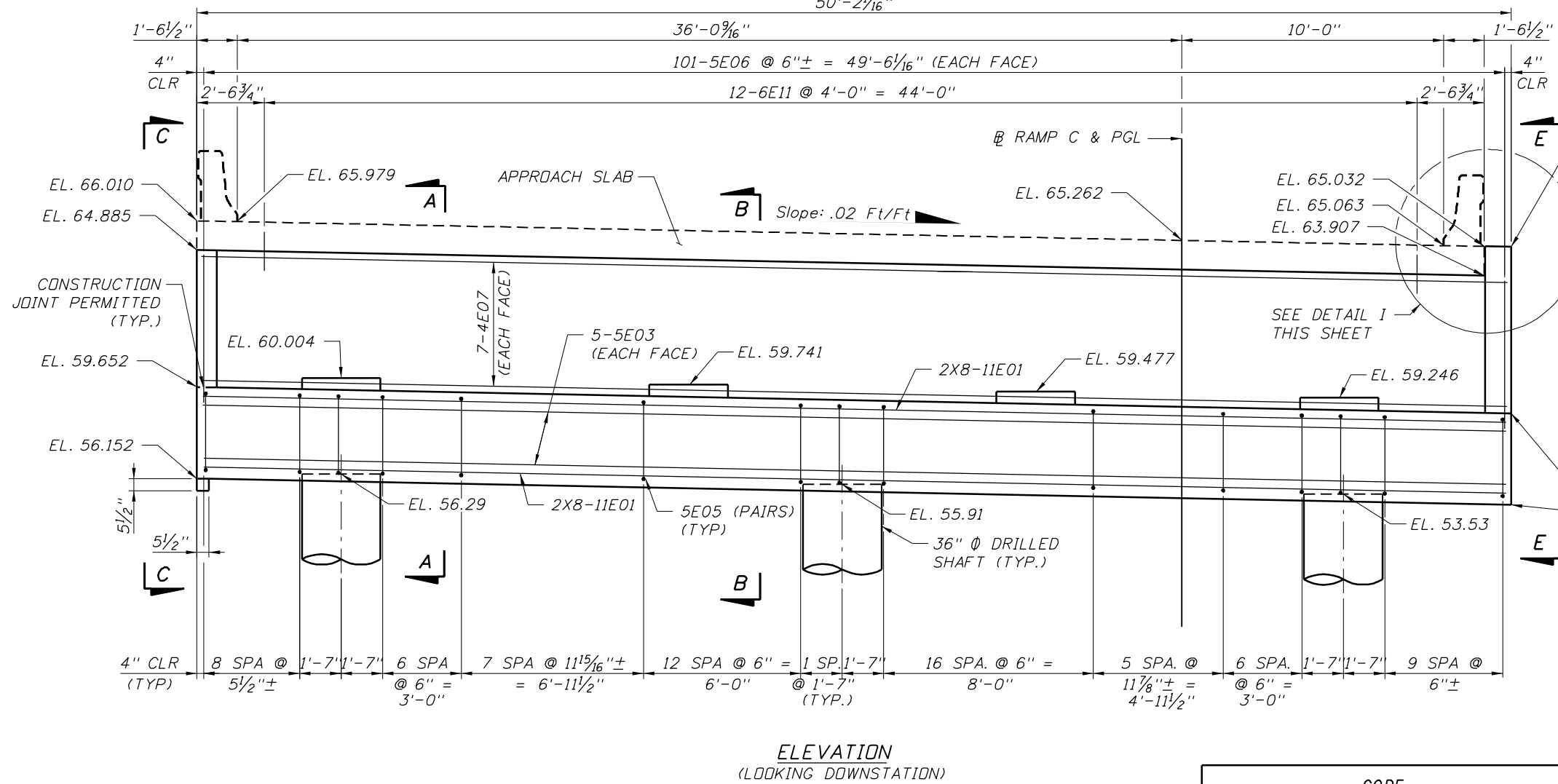


REVISIONS						CORE			BRIDGE NO. 100735		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			FOUNDATION LAYOUT		
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		
						SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)		
DRAWN BY: PDB 3/09 CHECKED BY: PRS 3/09 DESIGNED BY: IRR 3/09 CHECKED BY: PRS 3/09 APPROVED BY: PAUL R. STEIJLEN						ENGINEER OF RECORD: BRIDGE CONCEPTS, INC. CONSULTING ENGINEERS 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9785 PAUL R. STEIJLEN, PE #44780			SHEET TITLE: SHEET NO. B2-4		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



* MEASURED ALONG FFBW

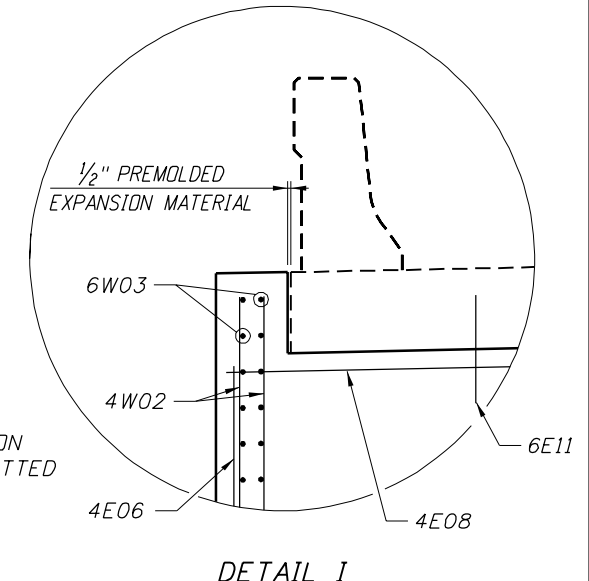
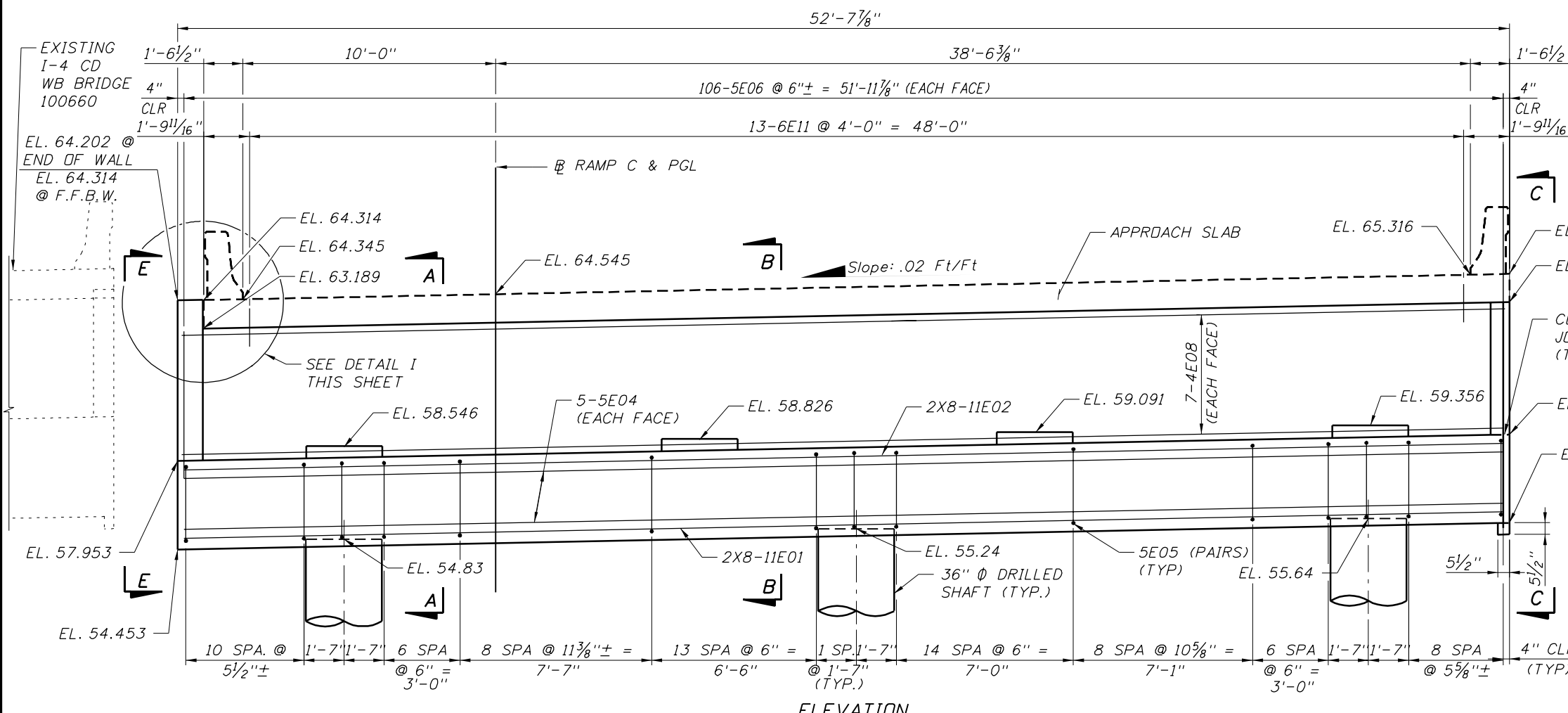
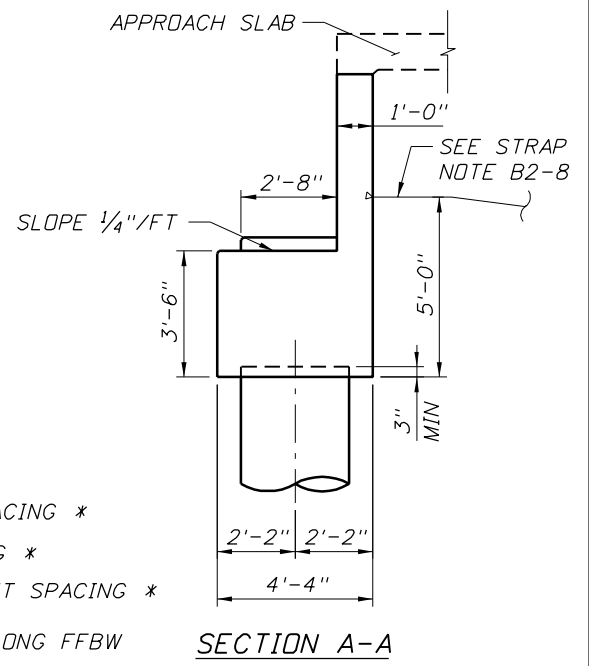
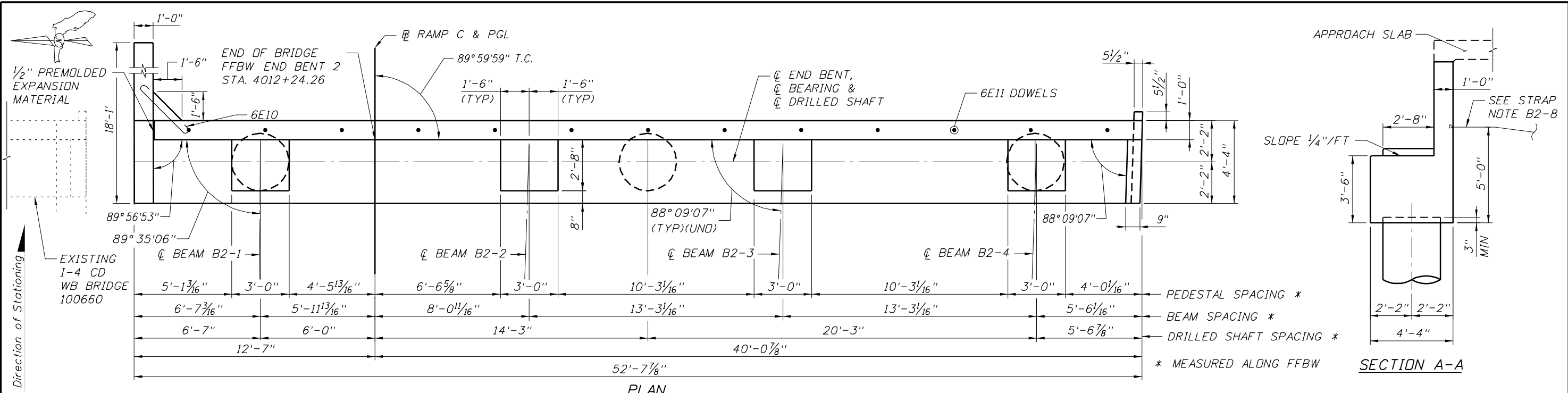


ESTIMATED QUANTITIES			
ITEM	UNIT	QUANTITY	
Class IV Concrete (Substructure)	Cap	C.Y.	28.18
	Pedestals	C.Y.	0.55
	Backwall	C.Y.	9.72
	Wingwall	C.Y.	3.23
	Cheek wall	C.Y.	0.50
	Cheekwall lip	C.Y.	0.13
TOTAL	C.Y.	42.31	
Reinforcing Steel (Substructure)	L.B.	13,313	
36" Ø Drilled Shaft	L.F.	**	

** See Summary of Bridge Pay Items

REVISIONS				NAMES		DATES		ENGINEER OF RECORD:			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			BRIDGE NO. 100735	
								ROAD NO. COUNTY FINANCIAL PROJECT ID			END BENT 1	
								SR 400 HILLSBOROUGH 258415-2-52-01	PROJECT NAME:		I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)	
											SHEET NO. B2-5	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

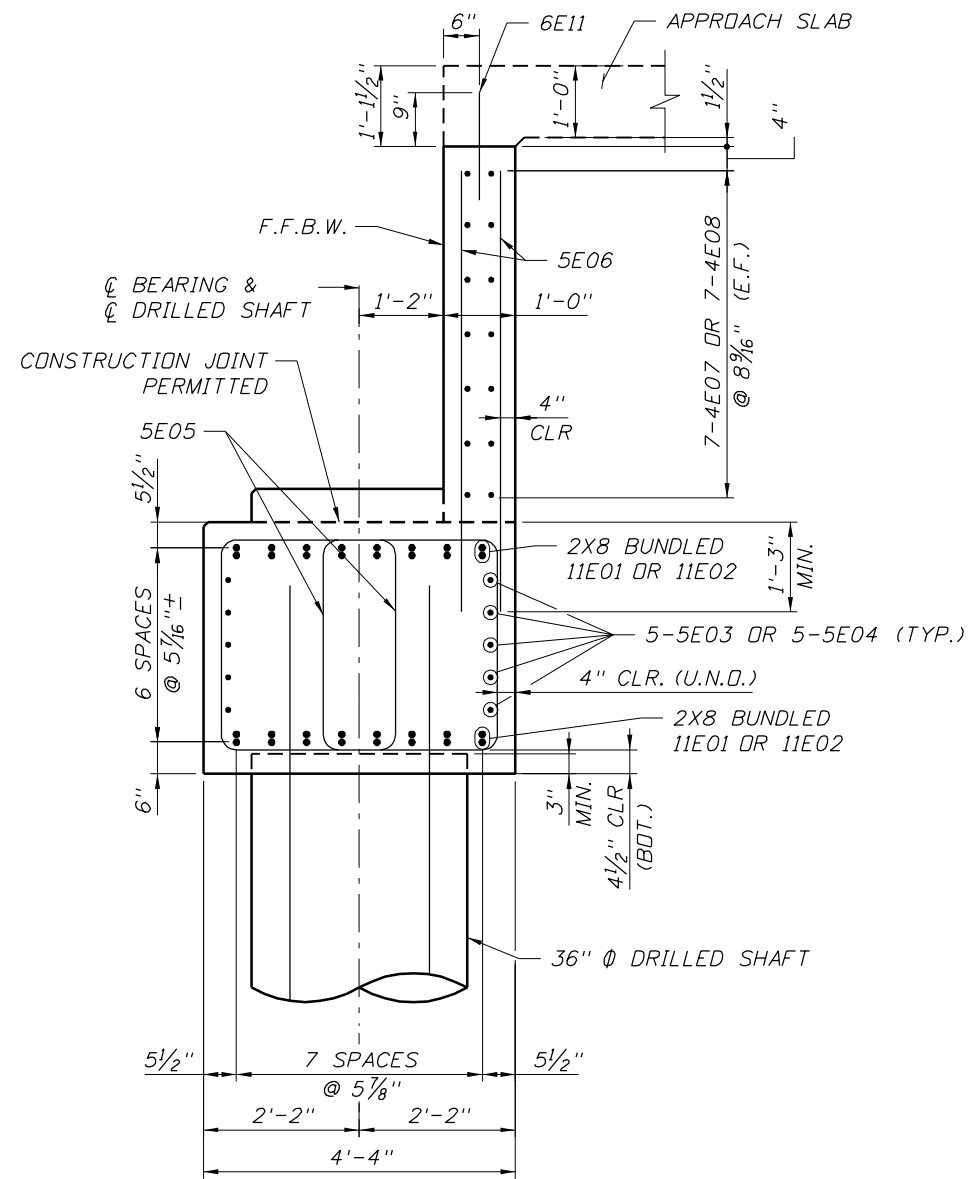


ESTIMATED QUANTITIES			
ITEM	UNIT	QUANTITY	
Class IV Concrete (Substructure)	Cap	C.Y.	29.58
	Pedestals	C.Y.	0.55
	Backwall	C.Y.	10.14
	Wingwall	C.Y.	3.23
	Cheekwall	C.Y.	0.50
	Cheekwall lip	C.Y.	0.13
TOTAL	C.Y.	44.13	
Reinforcing Steel (Substructure)	L.B.	13,948	
36" Ø Drilled Shaft	L.F.	**	

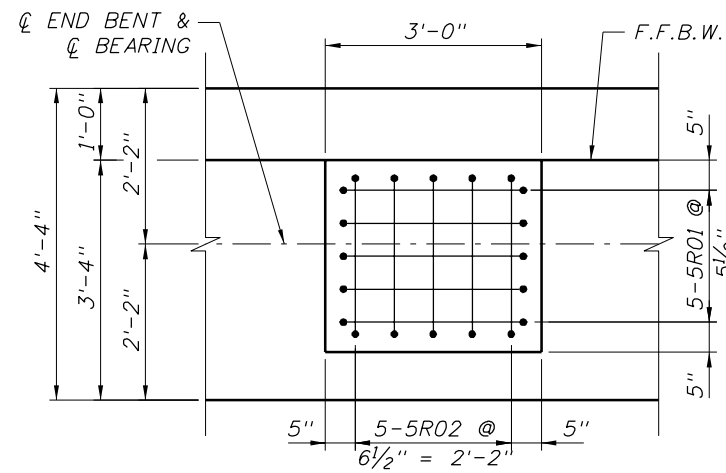
** See Summary of Bridge Pay Items
BRIDGE NO. 100735

REVISIONS				ENGINEER OF RECORD		CORE			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	
						SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)	
DRAWN BY: PDB 3/09 CHECKED BY: PRS 3/09 DESIGNED BY: IRR 3/09 CHECKED BY: PRS 3/09 APPROVED BY: PAUL R. STEIJLEN						BRIDGE CONCEPTS, INC. CONSULTING ENGINEERS 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9785 PAUL R. STEIJLEN, PE #44780			END BENT 2 SHEET NO. B2-6	

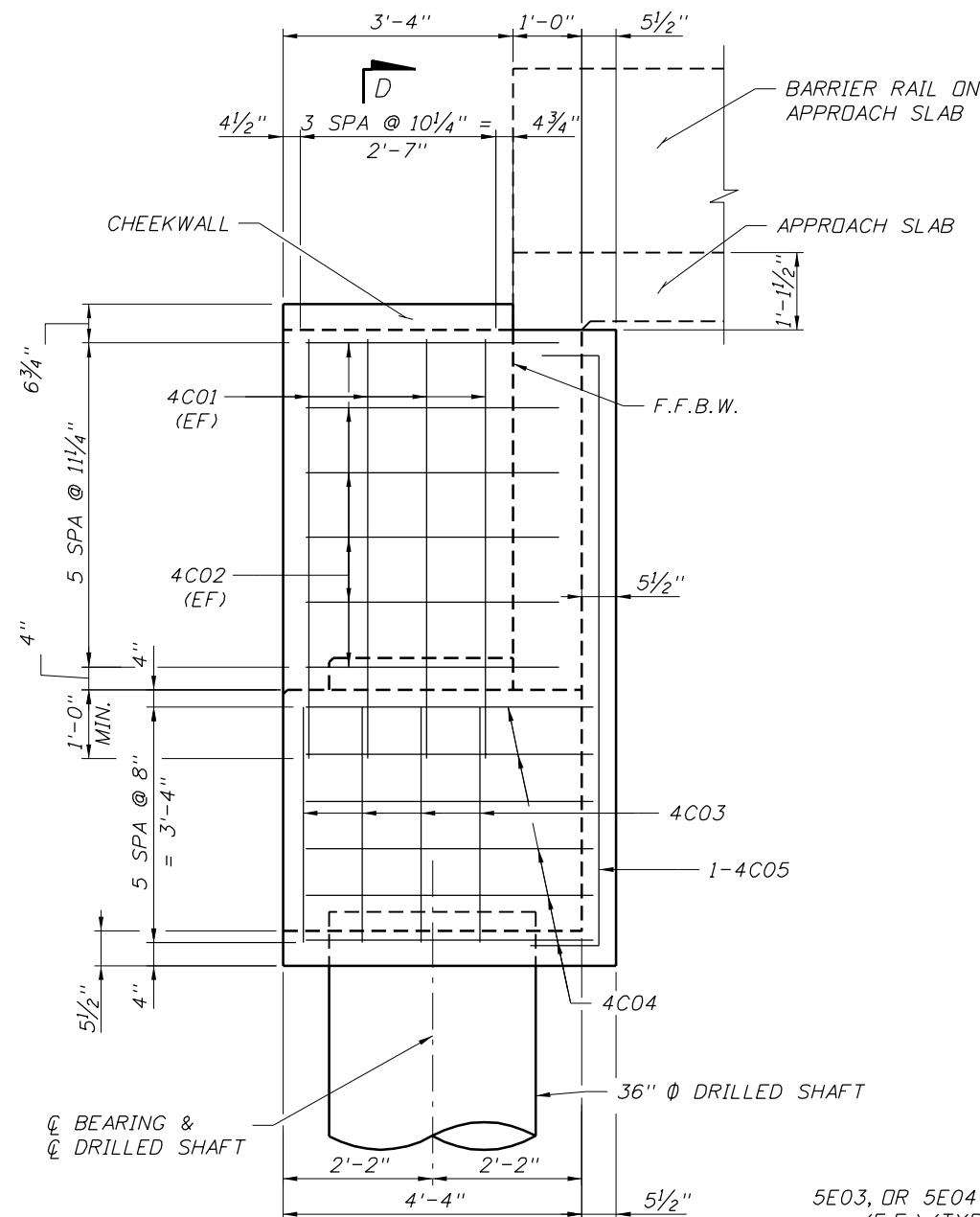
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.



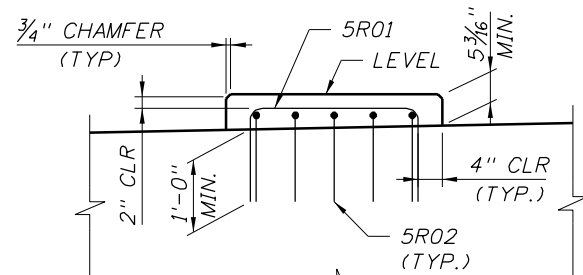
SECTION B-B



PEDESTAL DETAILS
PLAN

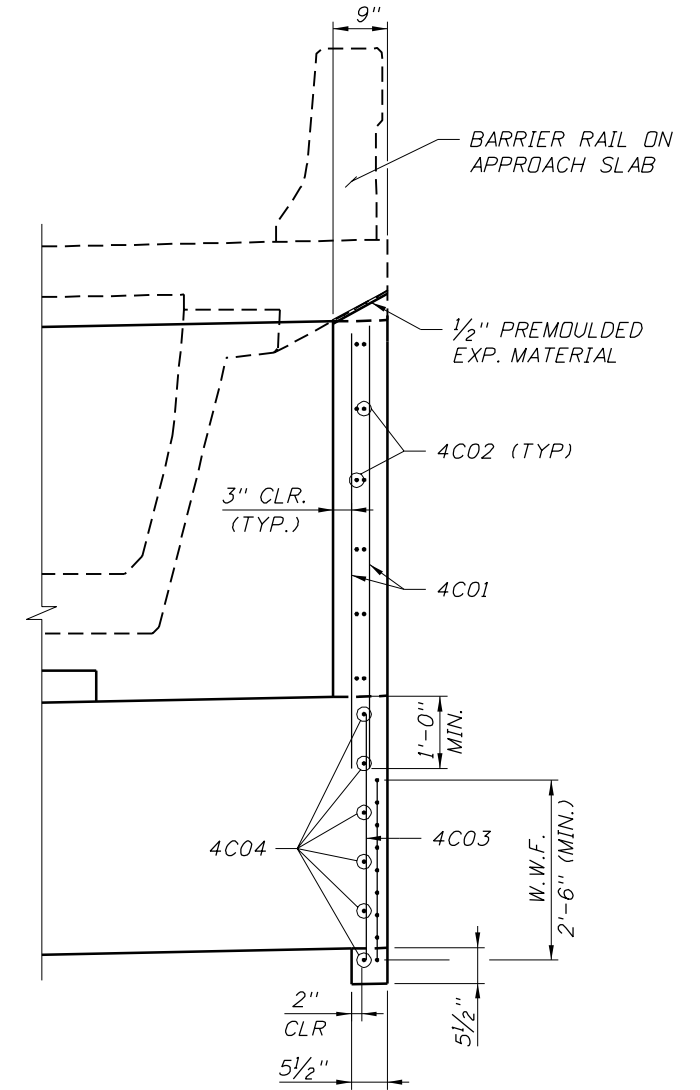


VIEW C-C
(END BENT 2 SHOWN, END BENT 1 OPPOSITE HAND)
(W.W.F. NOT SHOWN FOR CLARITY)

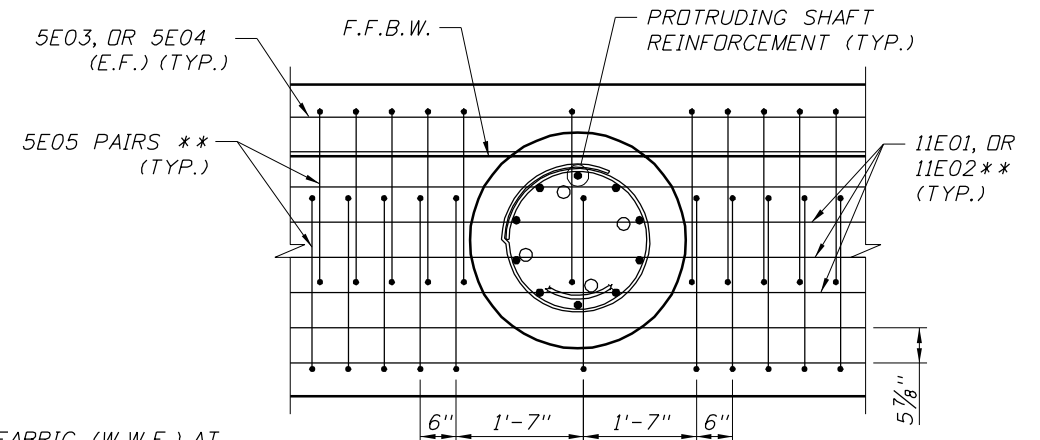


PEDESTAL DETAILS
ELEVATION

NOTE:
PROVIDE WELDED WIRE FABRIC (W.W.F.) AT ALL LUGS. 4X4-W4.0X4.0 (MIN. 2'-6" WIDE) SHALL BE TIED TO THE REINFORCEMENT.



SECTION D-D



REBAR SHAFT DETAIL

** SHIFT BARS AS NEED TO CLEAR DRILLED SHAFT REINFORCEMENT.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

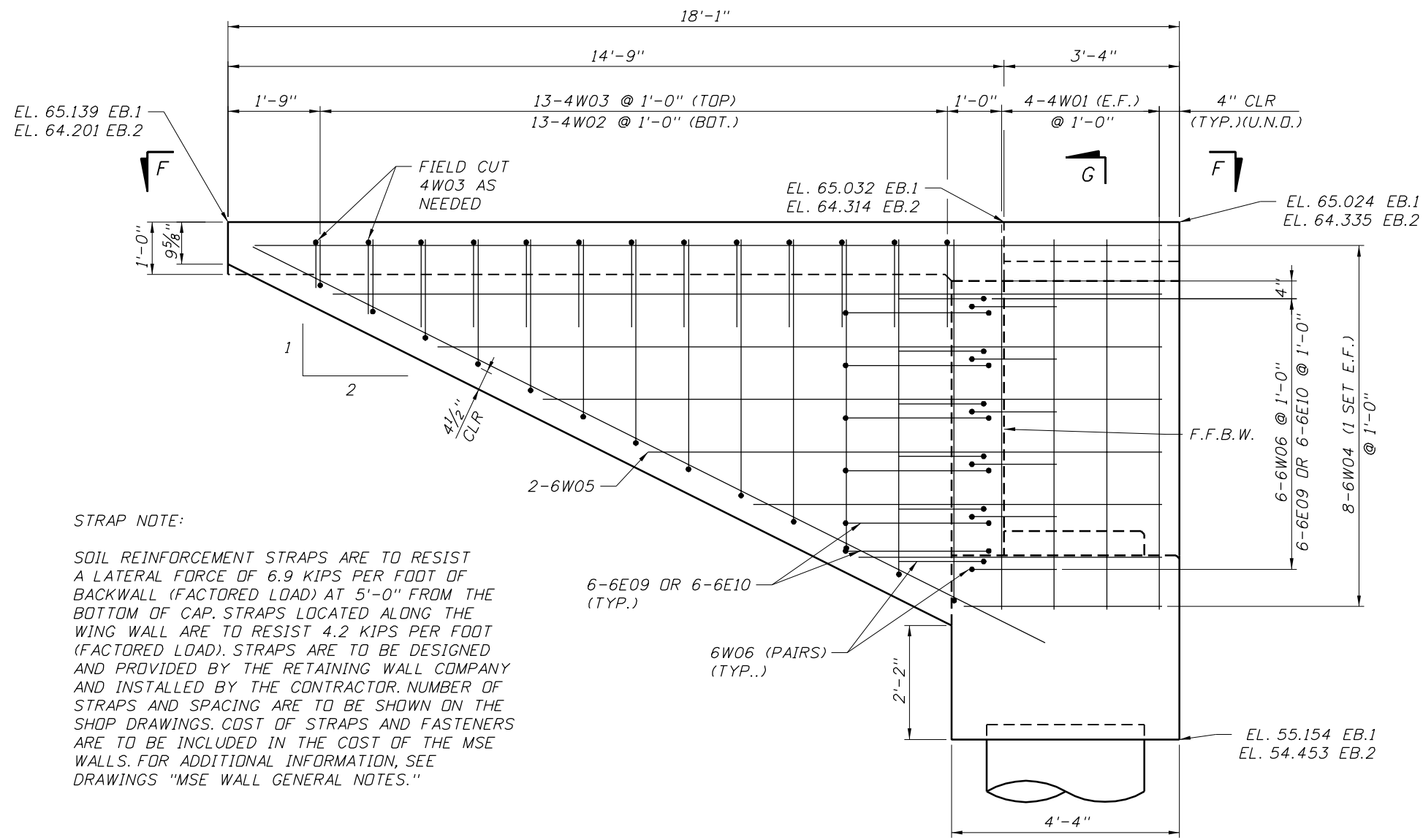
NAME	DATE
DRAWN BY PDB	3/09
CHECKED BY PRS	3/09
DESIGNED BY IRR	3/09
CHECKED BY PRS	3/09
APPROVED BY PAUL R. STEIJLEN	

ENGINEER OF RECORD:
BRIDGE CONCEPTS, INC.
CONSULTING ENGINEERS
15100 HUTCHINSON ROAD, SUITE 105
TAMPA, FL 33625
CERTIFICATE OF AUTHORIZATION NO. 9785
PAUL R. STEIJLEN, PE #44780

CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE:		SHEET NO.
END BENT DETAILS (1 OF 2)		B2-7
PROJECT NAME:		
1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)		

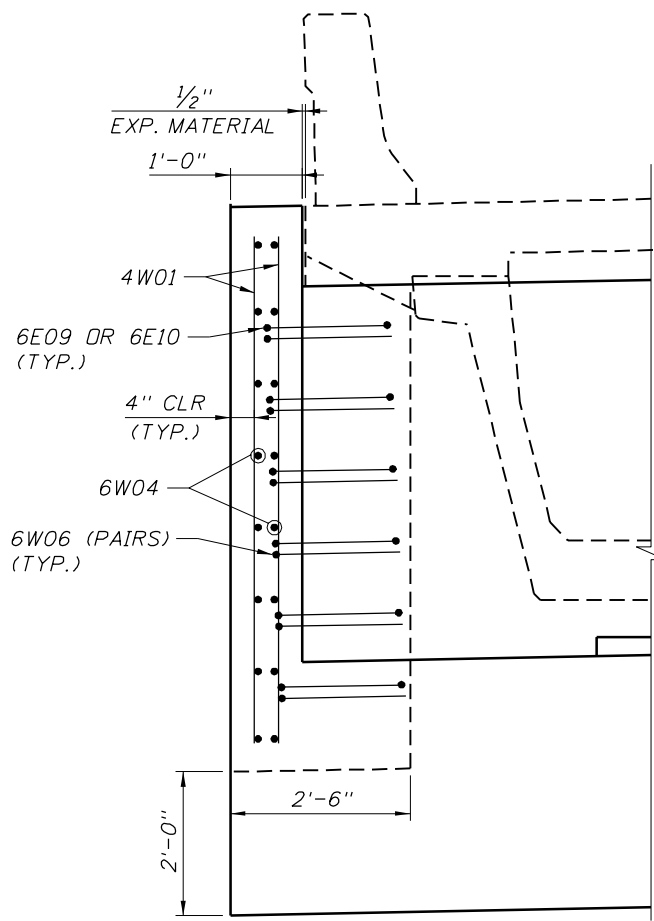
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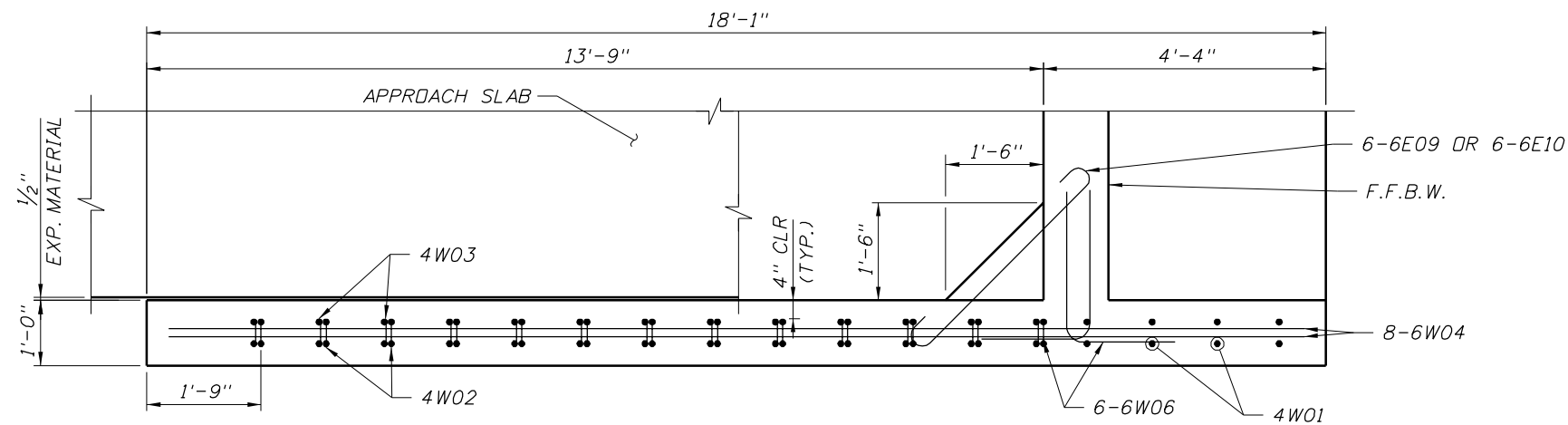
STRAP NOTE:

SOIL REINFORCEMENT STRAPS ARE TO RESIST A LATERAL FORCE OF 6.9 KIPS PER FOOT OF BACKWALL (FACTORED LOAD) AT 5'-0" FROM THE BOTTOM OF CAP. STRAPS LOCATED ALONG THE WING WALL ARE TO RESIST 4.2 KIPS PER FOOT (FACTORED LOAD). STRAPS ARE TO BE DESIGNED AND PROVIDED BY THE RETAINING WALL COMPANY AND INSTALLED BY THE CONTRACTOR. NUMBER OF STRAPS AND SPACING ARE TO BE SHOWN ON THE SHOP DRAWINGS. COST OF STRAPS AND FASTENERS ARE TO BE INCLUDED IN THE COST OF THE MSE WALLS. FOR ADDITIONAL INFORMATION, SEE DRAWINGS "MSE WALL GENERAL NOTES."

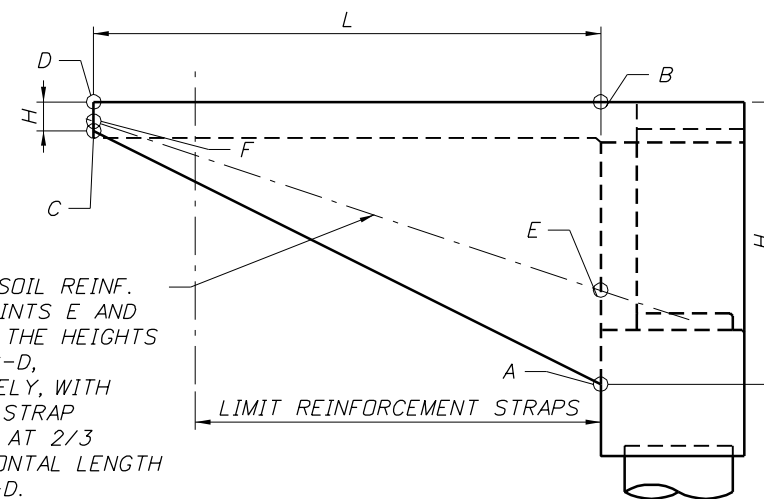
VIEW E-E
(END BENT 2 SHOWN, END BENT 1 OPPOSITE HAND)



SECTION G-G



VIEW F-F



STRAP DETAILS

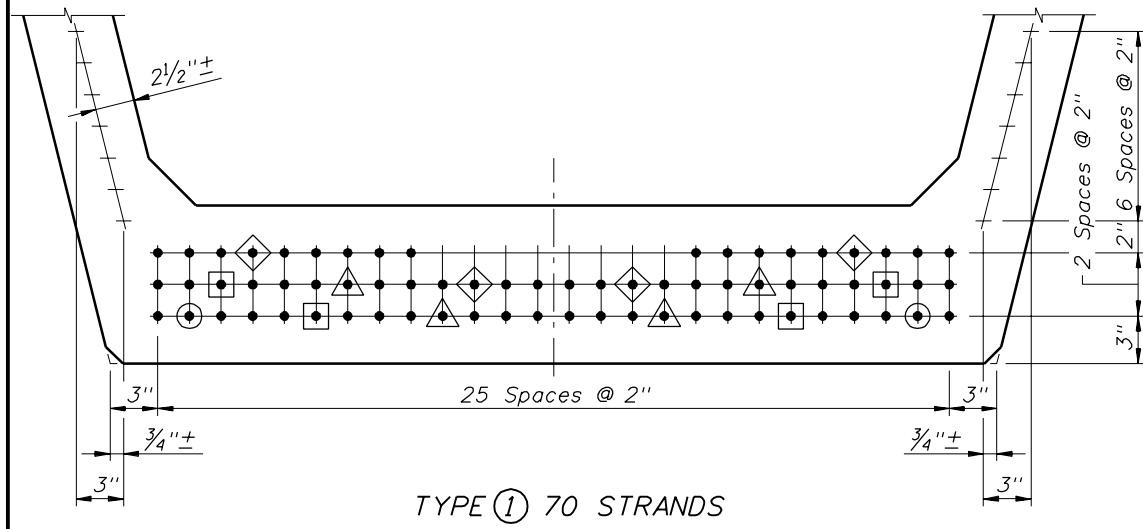
REVISIONS						DRAWN BY		DATES		ENGINEER OF RECORD			SHEET TITLE		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	NAME	DATE	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME		
						PDB	3/09	BRIDGE CONCEPTS, INC.		SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)		
						PRS	3/09	CONSULTING ENGINEERS					END BENT DETAILS (2 OF 2)		
						IRR	3/09	15100 HUTCHINSON ROAD, SUITE 105					SHEET NO.		
						PRS	3/09	TAMPA, FL 33625					B2-8		
						PAUL R. STEIJLEN		CERTIFICATE OF AUTHORIZATION NO. 9785							
								PAUL R. STEIJLEN, PE #44780							

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FLORIDA U BEAM - TABLE OF BEAM VARIABLES

Table Date 1-01-06

FUB TYPE	LOCATION		CONCRETE PROPERTIES		STND. PTRN. TYPE	END ELEV. COND.	PLAN VIEW CASE		BRG. PLATE MARK ***		END OF BEAM AND BEARING DIMENSIONS **				BEAM DIMENSIONS *		REINFORCING STEEL												
	SPAN NO.	BEAM NO.	CLASS	STRENGTHS (psi)			END 1	END 2	END 1	END 2	ANGLE Ø		DIM P	DIM J	DIM K1	DIM K2	DIM L	DIM R	4G	4H	4M	5K	NO. OF SPACES BARS 5K & 4M			SPACING BARS 5K & 4M *			
				28 Day							Release	END 1							END 2	NO.	NO.	NO.	NO.	S1	S2	S3	V1	V2	V3
54	B2	B2-1	VI	8500	6000	1	3	1	1	---	---	90°	90°	3/8"	1'-0"	1'-2"	1'-2"	98'-2"	1"	70	100	290	310	12	25	1	9"	1'-0"	1'-0 1/8"
54	B2	B2-2	VI	8500	6000	1	3	2	2	---	---	88°	88°	3/8"	1'-0"	1'-2"	1'-2"	98'-3"	1"	70	100	290	310	12	25	1	9"	1'-0"	1'-1 1/2"
54	B2	B2-3	VI	8500	6000	1	3	2	2	---	---	88°	88°	3/8"	1'-0"	1'-2"	1'-2"	98'-3"	1"	70	100	290	310	12	25	1	9"	1'-0"	1'-1 1/2"
54	B2	B2-4	VI	8500	6000	1	3	2	2	---	---	88°	88°	3/8"	1'-0"	1'-2"	1'-2"	98'-3"	1"	70	100	290	310	12	25	1	9"	1'-0"	1'-1 1/2"



TYPE ① 70 STRANDS

STRAND DESCRIPTION: Use 0.5" Diameter, Grade 270, Low Relaxation Strands stressed at 31.0 kips each. Area per strand equals 0.153 sq. in.

STRAND PATTERN

NOTE: Work this sheet with Design Standards Index Nos. 20210, 20248, 20254, 20263 and 20272.

DIMENSION NOTES
 * All longitudinal beam dimensions shown on this sheet with a single asterisk (*) are measured along the top of beam at the centerline of beam.
 ** End of beam bearing dimensions "J" and "K" are measured along the bottom of the beam.

BEARING PLATES
 *** Mark indicates beveled bearing plate and embedded bearing plate required. See Index No. 20502 for details.

STRAND DEBONDING LEGEND
 • - fully bonded strands.
 ○ - strands debonded 3'-0" from end of beam.
 □ - strands debonded 9'-0" from end of beam.
 △ - strands debonded 15'-0" from end of beam.
 ◇ - strands debonded 21'-0" from end of beam.

NOTE: On beams with skewed ends the debonded length shall be measured along the shielded strand.

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<p>ENGINEER OF RECORD:</p> <p>BRIDGE CONCEPTS, INC. CONSULTING ENGINEERS 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9789 PAUL R. STEIJLEN, PE #44780</p>		<p>CORE</p> <p>FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td>SR 400</td> <td>HILLSBOROUGH</td> <td>258415-2-52-01</td> </tr> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 400	HILLSBOROUGH	258415-2-52-01	<p>BRIDGE NO. 100735</p> <p>SHEET TITLE: FLORIDA U-BEAM TABLE OF BEAM VARIABLES</p> <p>PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)</p> <p>SHEET NO. B2-9</p>			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																									
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																												
SR 400	HILLSBOROUGH	258415-2-52-01																												

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

Direction of Stationing

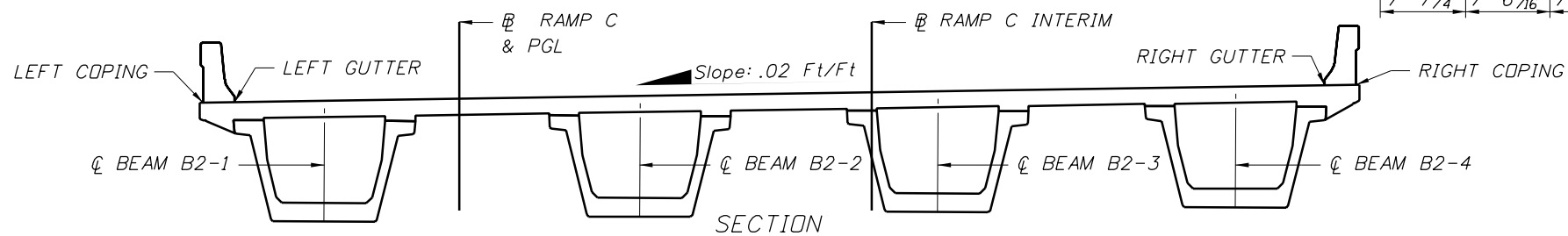
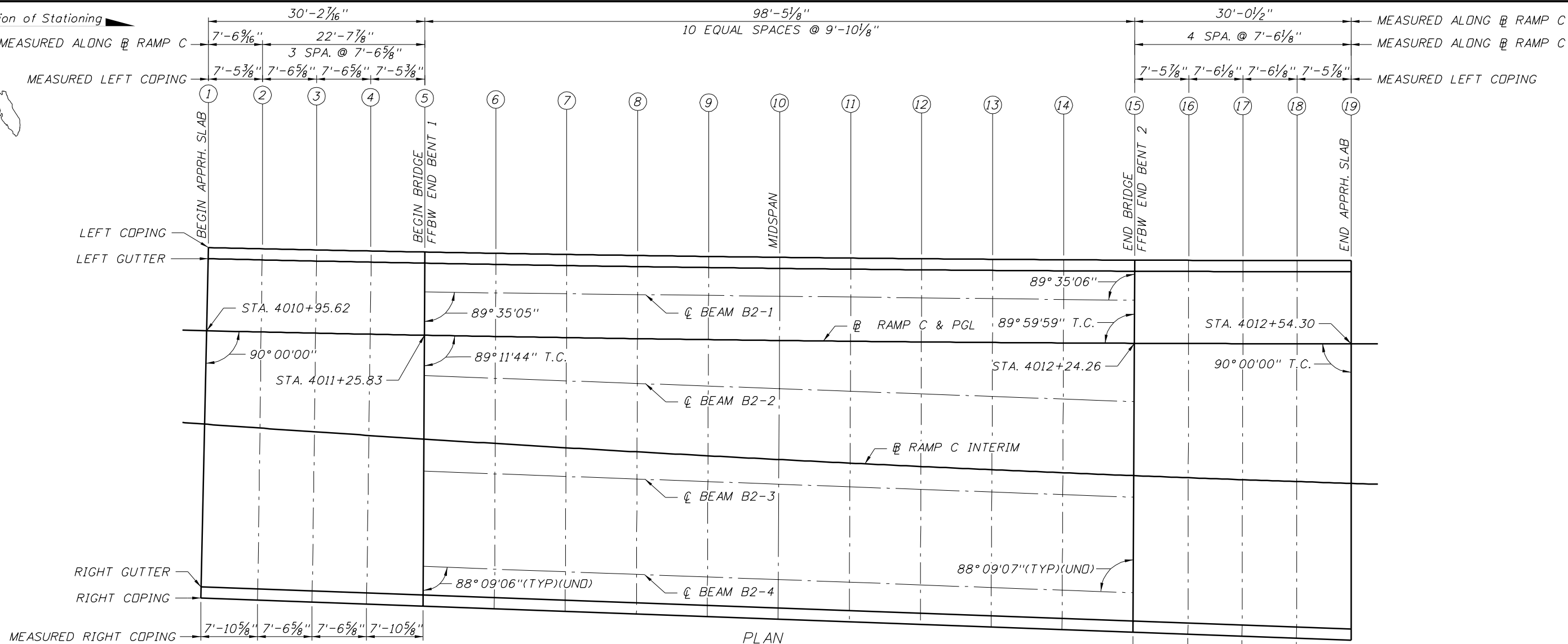
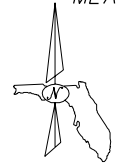


TABLE OF FINISH GRADE ELEVATIONS

	APPROACH SLAB 1					SPAN 1										APPROACH SLAB 2					
	1	2	3	4	5	5	6	7	8	9	10	11	12	13	14	15	15	16	17	18	19
LEFT COPING	64.247	65.194	65.140	65.086	65.032	65.032	64.962	64.892	64.821	64.749	64.677	64.605	64.532	64.460	64.387	64.314	64.314	64.259	64.202	64.146	64.090
LEFT GUTTER	65.278	65.224	65.171	65.117	65.063	65.063	64.993	64.923	64.851	64.780	64.708	64.636	64.563	64.491	64.418	64.345	64.345	64.289	64.233	64.177	64.120
☉ BEAM B2-1						65.263	65.071	65.000	64.928	64.856	64.784	64.712	64.640	64.568	64.497	64.425					
RAMP C & PGL	65.478	65.424	65.370	65.316	65.262	65.262	65.192	65.122	65.051	64.979	64.907	64.835	64.763	64.690	64.618	64.545	64.545	64.489	64.433	64.377	64.320
☉ BEAM B2-2						65.262	65.306	65.240	65.174	65.107	65.035	64.973	64.906	64.839	64.772	64.706					
RAMP C INTERIM	65.737	65.690	65.643	65.596	65.549	65.549	65.478	65.426	65.363	65.300	65.236	65.172	65.108	65.043	64.977	64.912	64.912	64.861	64.810	64.759	64.707
☉ BEAM B2-3						65.260	65.570	65.504	65.438	65.371	65.304	65.238	65.171	65.104	65.037	64.971					
☉ BEAM B2-4						65.259	65.834	65.769	65.702	65.635	65.569	65.502	65.435	65.369	65.302	65.237					
RIGHT GUTTER	66.188	66.135	66.084	66.033	65.979	65.979	65.913	65.847	65.781	65.714	65.647	65.581	65.514	65.448	65.381	65.316	65.316	65.264	65.214	65.163	65.112
RIGHT COPING	66.219	66.165	66.114	66.063	66.010	66.010	65.943	65.878	65.811	65.745	65.678	65.612	65.545	65.479	65.412	65.346	65.346	65.295	65.244	65.186	65.142

CORE

BRIDGE NO. 100735

REVISIONS						NAMES		DATES		ENGINEER OF RECORD			SHEET TITLE		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAME	DATE	NAME	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.	
						PDB	PDB	3/09	BRIDGE CONCEPTS, INC.	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)	B2-11	
						PRS	PRS	3/09	CONSULTING ENGINEERS						
						IRR	IRR	3/09	15100 HUTCHINSON ROAD, SUITE 105						
						PRS	PRS	3/09	TAMPA, FL 33625						
						PAUL R. STEIJLEN	PAUL R. STEIJLEN		CERTIFICATE OF AUTHORIZATION NO. 9785						
									PAUL R. STEIJLEN, PE #44780						

Direction of Stationing

BEGIN BRIDGE & FFBW
END BENT 1
STA. 4011+25.83

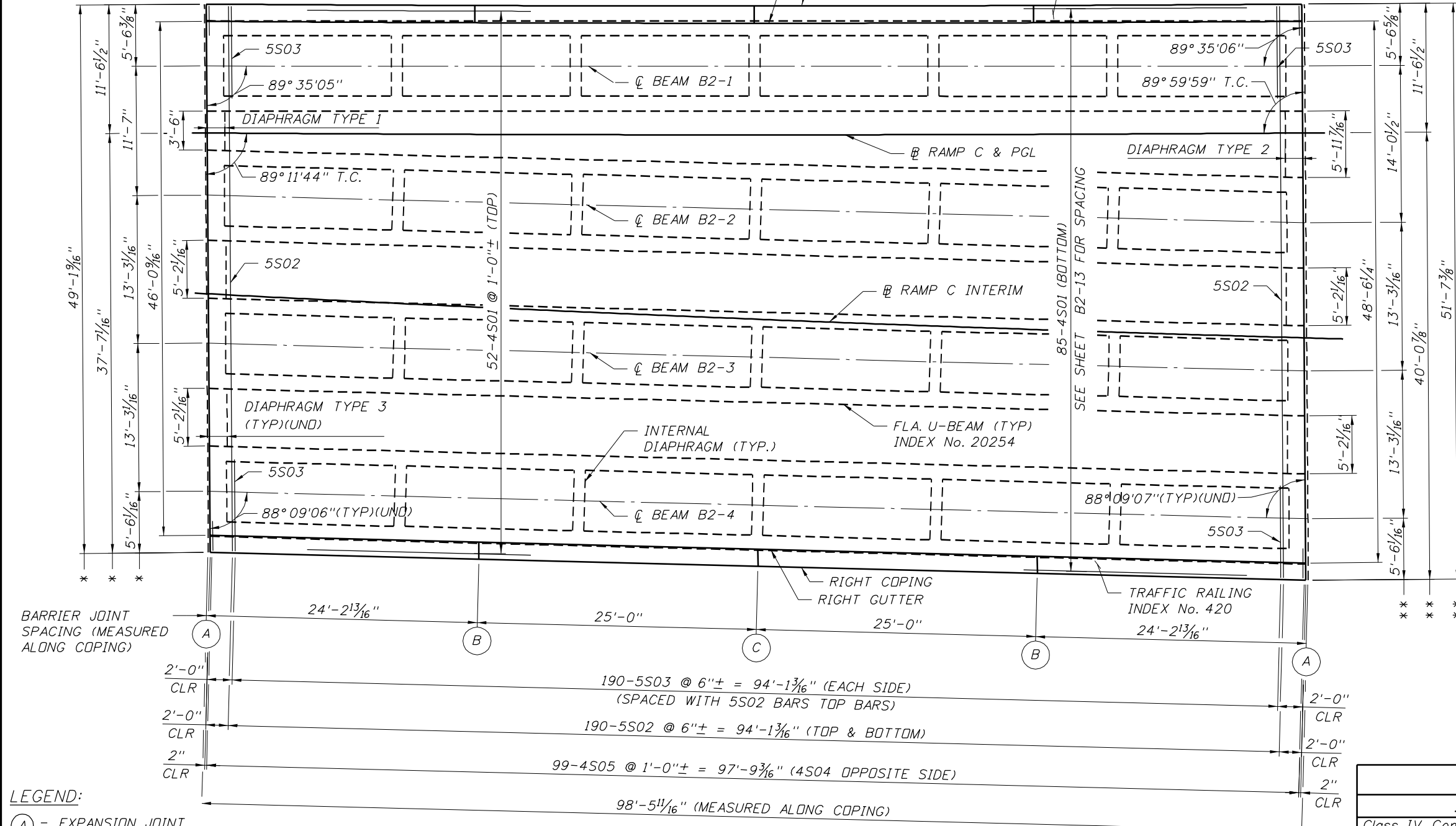
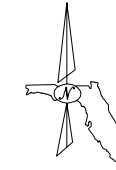
98'-5 1/8" (MEASURED ALONG @ RAMP C & PGL)

98'-5 1/8" (MEASURED ALONG COPING) (RADIUS = 7003.14')

END BRIDGE & FFBW
END BENT 2
STA. 4012+24.26

BARRIER JOINT
SPACING (MEASURED
ALONG COPING)
EXP. JT. (INDEX No. 21110)
DIM. "A"=2"

EXP. JT. (INDEX No. 21110)
DIM. "A"=2"



LEGEND:

- (A) - EXPANSION JOINT
- (B) - 1/2" V GROOVE IN BOTH FACES AND TOP OF ALL BARRIERS
- (C) - 3/4" OPEN JOINT IN ALL TRAFFIC RAILING BARRIERS

NOTES:

1. * DIMENSION MEASURED ALONG FFBW END BENT 1
2. ** DIMENSION MEASURED ALONG FFBW END BENT 2

PLAN

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class IV Concrete (Bridge deck)	C.Y.	141.31
Reinforcing Steel (Superstructure)	LB.	34,266
Concrete Traffic Barrier	L.F.	196.1

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

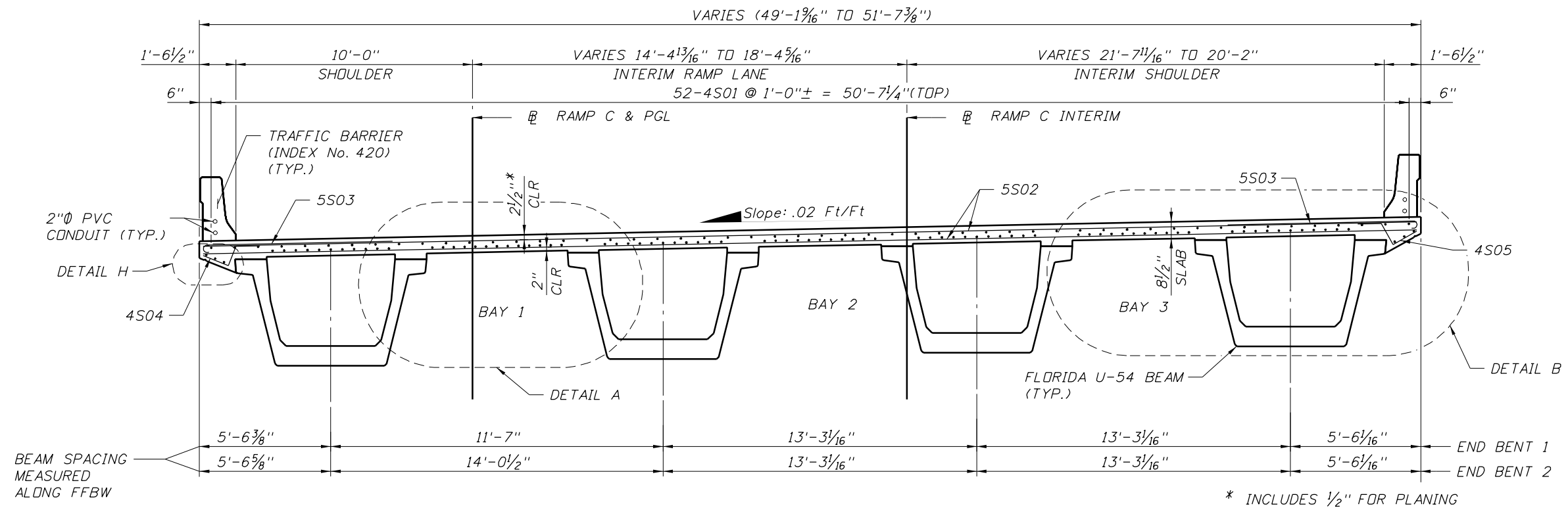
NAME	DATE
DRAWN BY PDB	3/09
CHECKED BY PRS	3/09
DESIGNED BY IRR	3/09
CHECKED BY PRS	3/09
APPROVED BY PAUL R. STEIJLEN	

ENGINEER OF RECORD:
BRIDGE CONCEPTS, INC.
CONSULTING ENGINEERS
15100 HUTCHINSON ROAD, SUITE 105
TAMPA, FL 33625
CERTIFICATE OF AUTHORIZATION NO. 9785
PAUL R. STEIJLEN, PE #44780

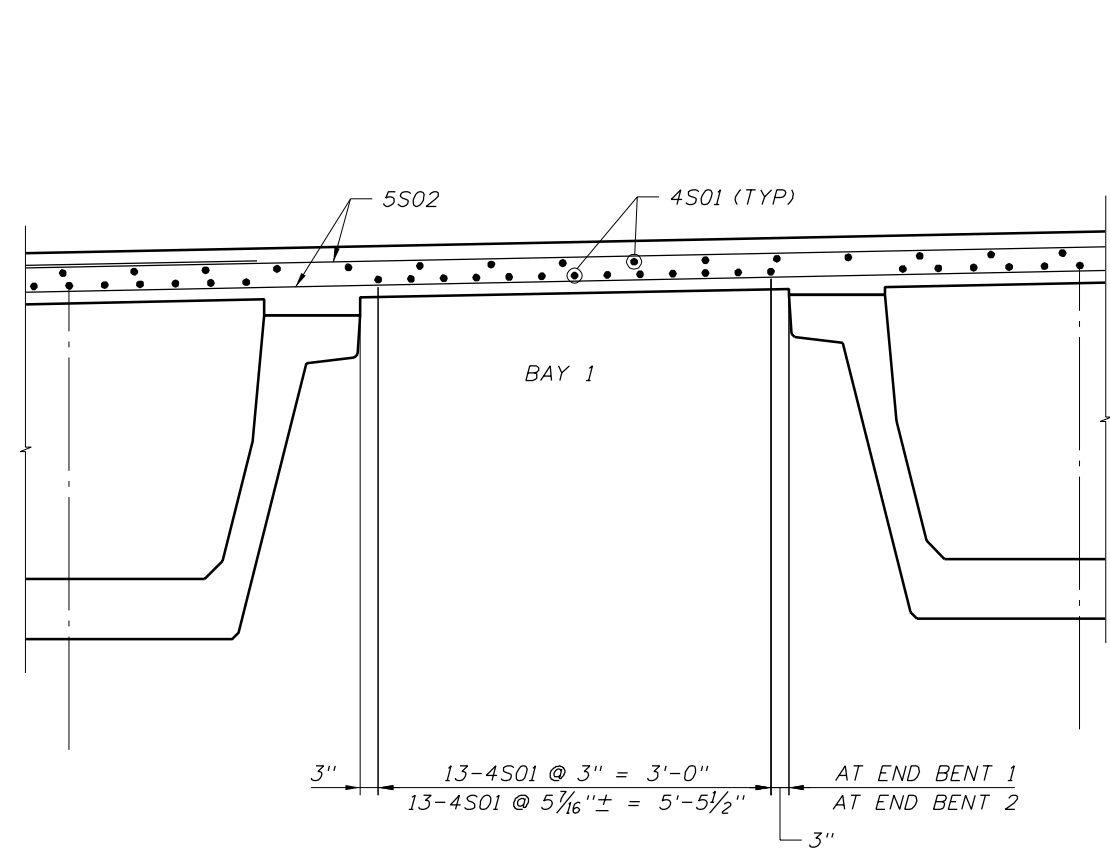
CORE		
FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

BRIDGE NO. 100735	
SHEET TITLE: SUPERSTRUCTURE PLAN	
PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)	SHEET NO. B2-12

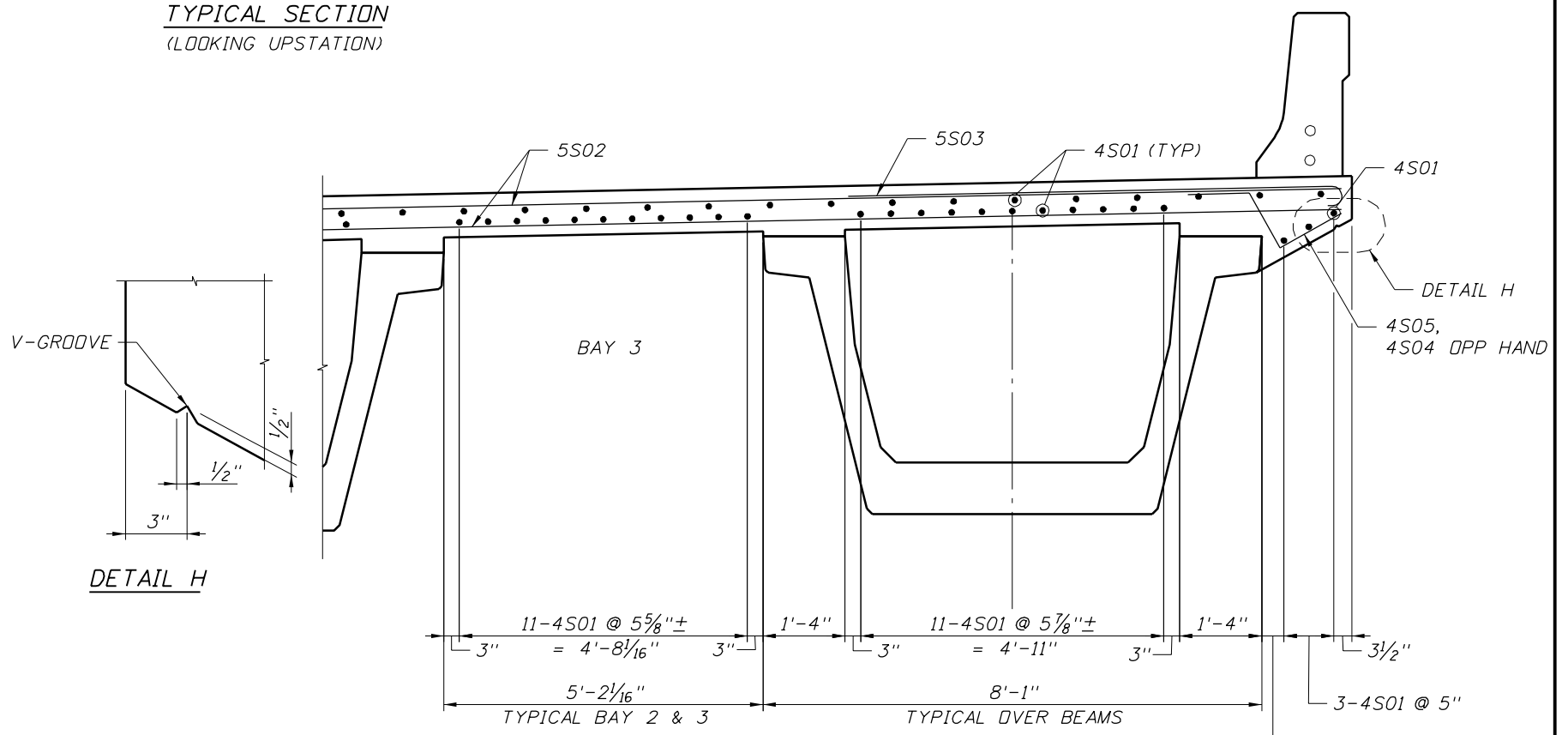
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TYPICAL SECTION
(LOOKING UPSTATION)



DETAIL A

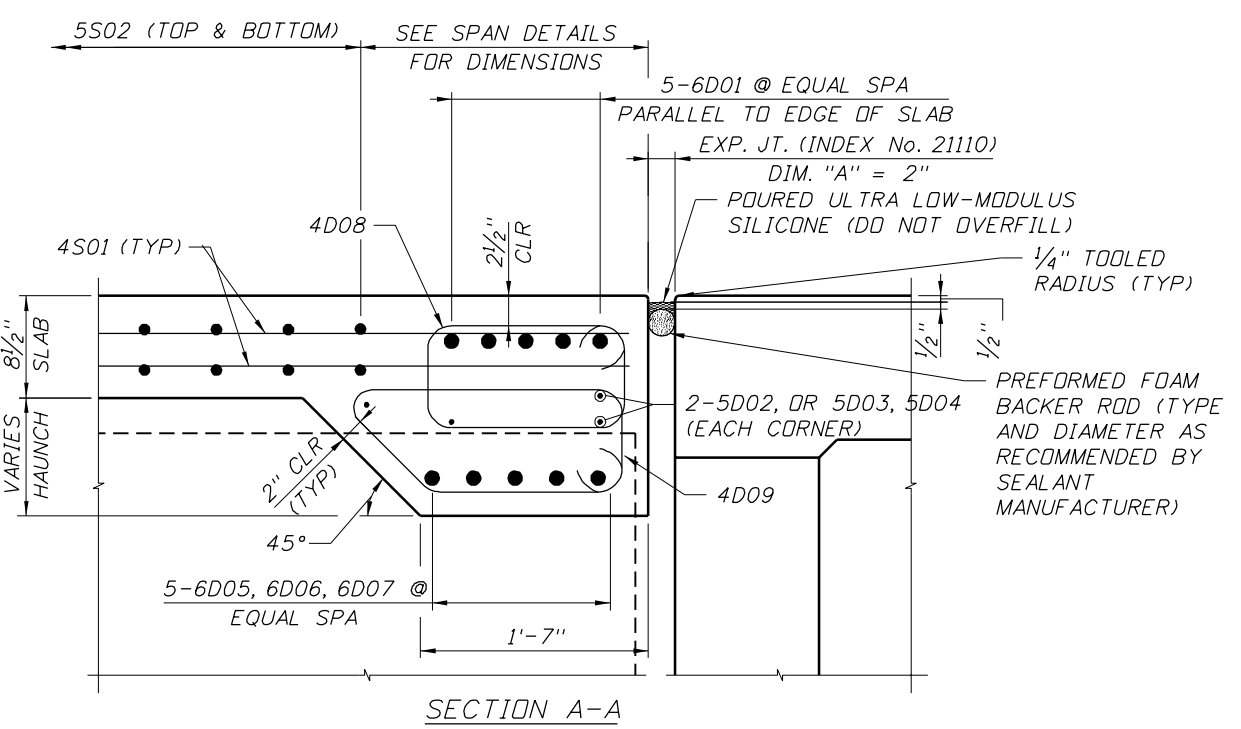
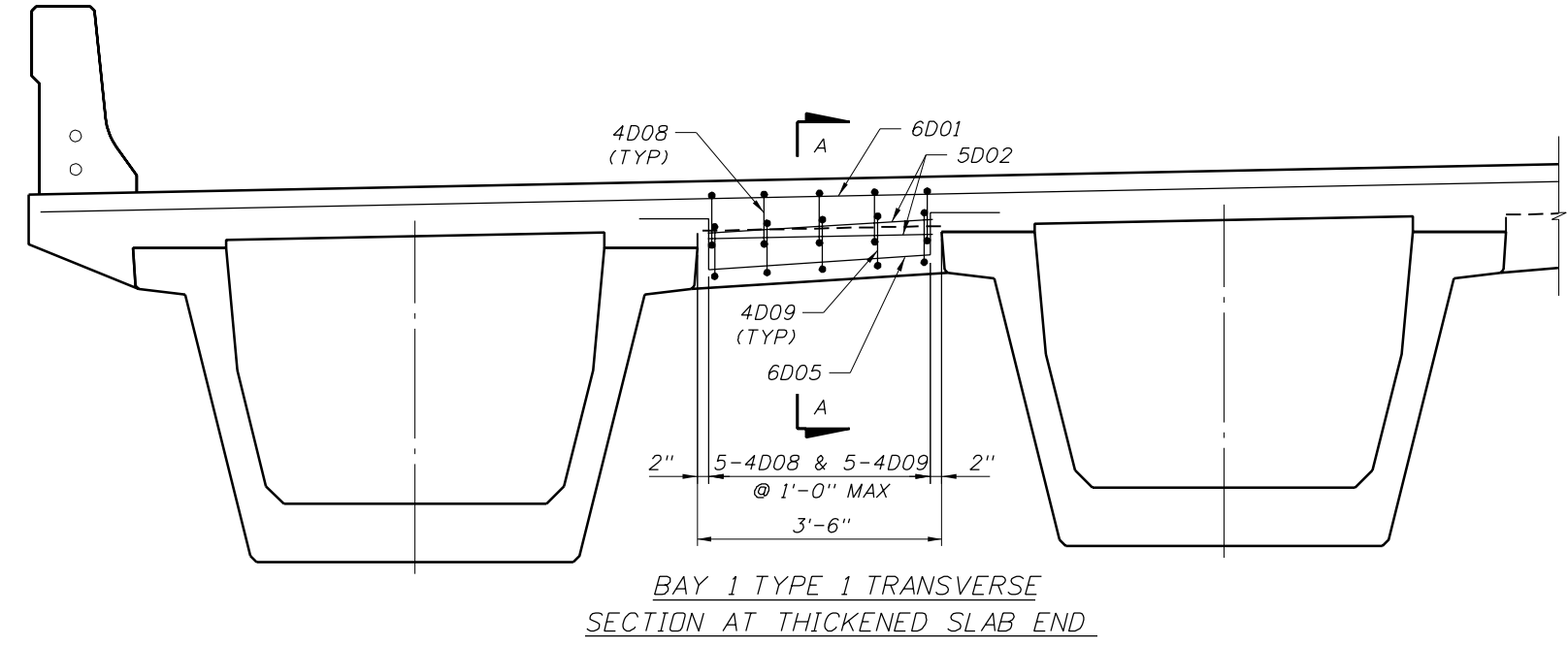
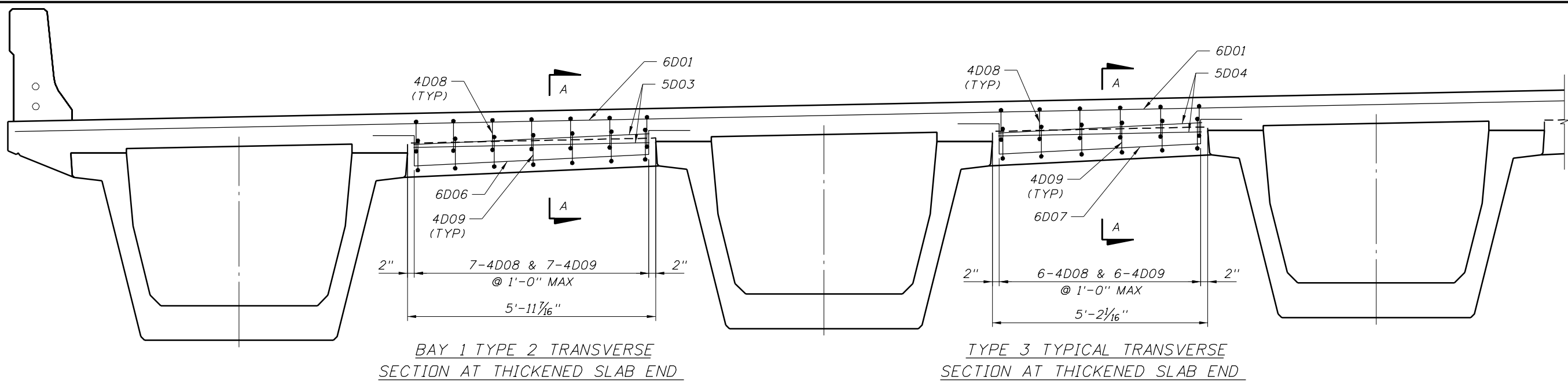


DETAIL B

CORE			BRIDGE NO. 100735		
FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SUPERSTRUCTURE DETAILS		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)		B2-13

REVISIONS						NAMES		DATES	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	ENGINEER OF RECORD	DATE	DATE
						PDB	BRIDGE CONCEPTS, INC.	3/09	3/09
						PRS	CONSULTING ENGINEERS	3/09	3/09
						IRR	15100 HUTCHINSON ROAD, SUITE 105	3/09	3/09
						PRS	TAMPA, FL 33625	3/09	3/09
						PAUL R. STEIJLEN	CERTIFICATE OF AUTHORIZATION NO. 9765		
							PAUL R. STEIJLEN, PE #44780		

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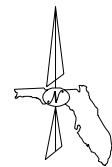
POURED EXPANSION JOINT DATA TABLE
INDEX NO. 21110 Table Date 1-01-06

LOCATION	DIM. "A" @ 70°	TOTAL DESIGN MOVEMENT	DIM. "A" ADJUSTMENT PER 10°F
END BENT 1	2"	2"	1/4"
END BENT 2	2"	2"	1/4"

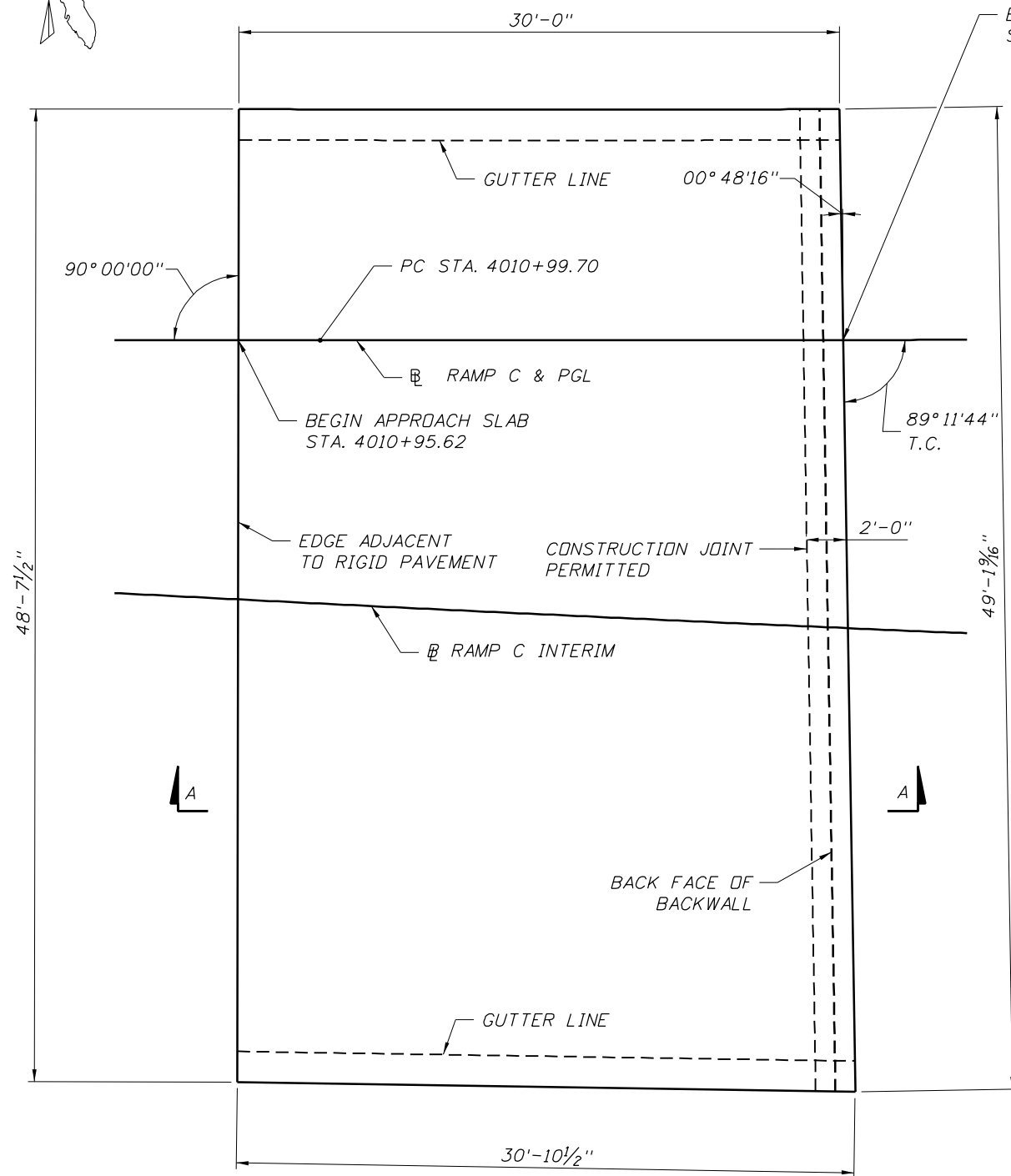
NOTE:
Dim. "A" adjustment per 10°F shown is measured perpendicular to \perp Expansion Joint. Work this table with Design Standards Index No. 21110.

REVISIONS				ENGINEER OF RECORD		CORE			BRIDGE NO. 100735	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	FLORIDA DEPARTMENT OF TRANSPORTATION			DIAPHRAGM DETAILS	
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)	
						SR 400	HILLSBOROUGH	258415-2-52-01	SHEET NO. B2-14	
DRAWN BY: PDB 3/09 CHECKED BY: PRS 3/09 DESIGNED BY: IRR 3/09 CHECKED BY: PRS 3/09 APPROVED BY: PAUL R. STEIJLEN						BRIDGE CONCEPTS, INC. CONSULTING ENGINEERS 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9765 PAUL R. STEIJLEN, PE #44780			PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.) SHEET NO. B2-14	

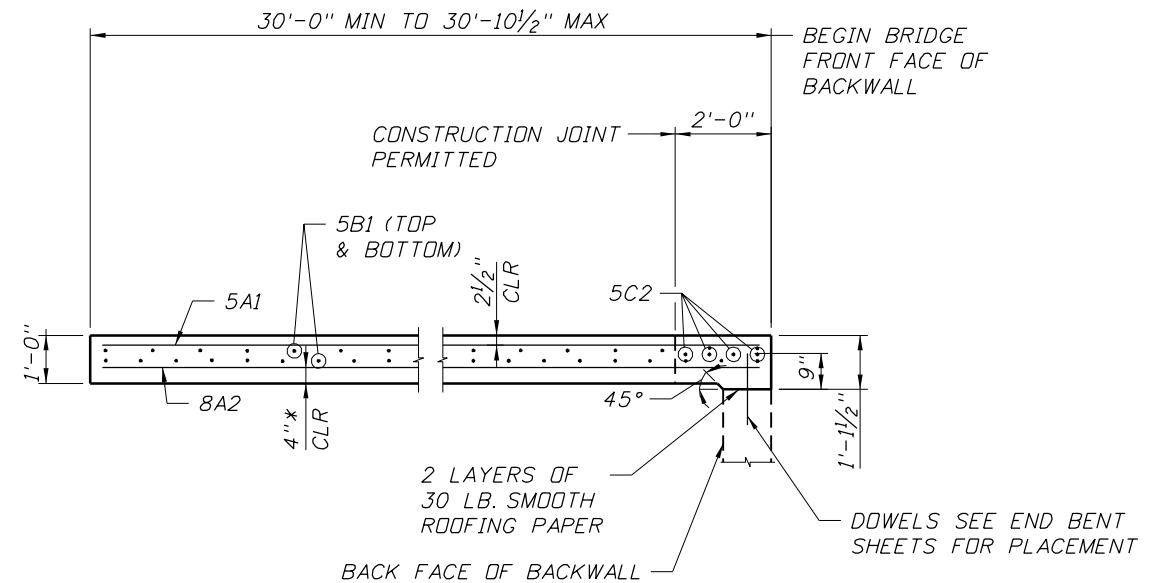
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Direction of Stationing



PLAN



* 2" OVER WALL PANELS

SECTION A-A
(SEE INDEX No. 20910 FOR ADDITIONAL DETAILS)

APPROACH SLAB INDEX NO. 20910 TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES

LOCATION	DIMENSIONS					ANGLE ϕ	REINFORCING STEEL (Lbs.)	CLASS II CONCRETE (C.Y.)
	L 1	L 2	M1	M2	N			
END BENT 1 (BEGIN BRIDGE)	30'-10 1/2"	30'-0"	1'-6 1/2"	1'-6 1/2"	46'-0 7/16"	00° 48' 16"	11,463	55.32

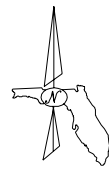
Dimension and Quantity Notes:

Dimensions 'L 1' & 'L 2' are arc dimensions within curved alignments.

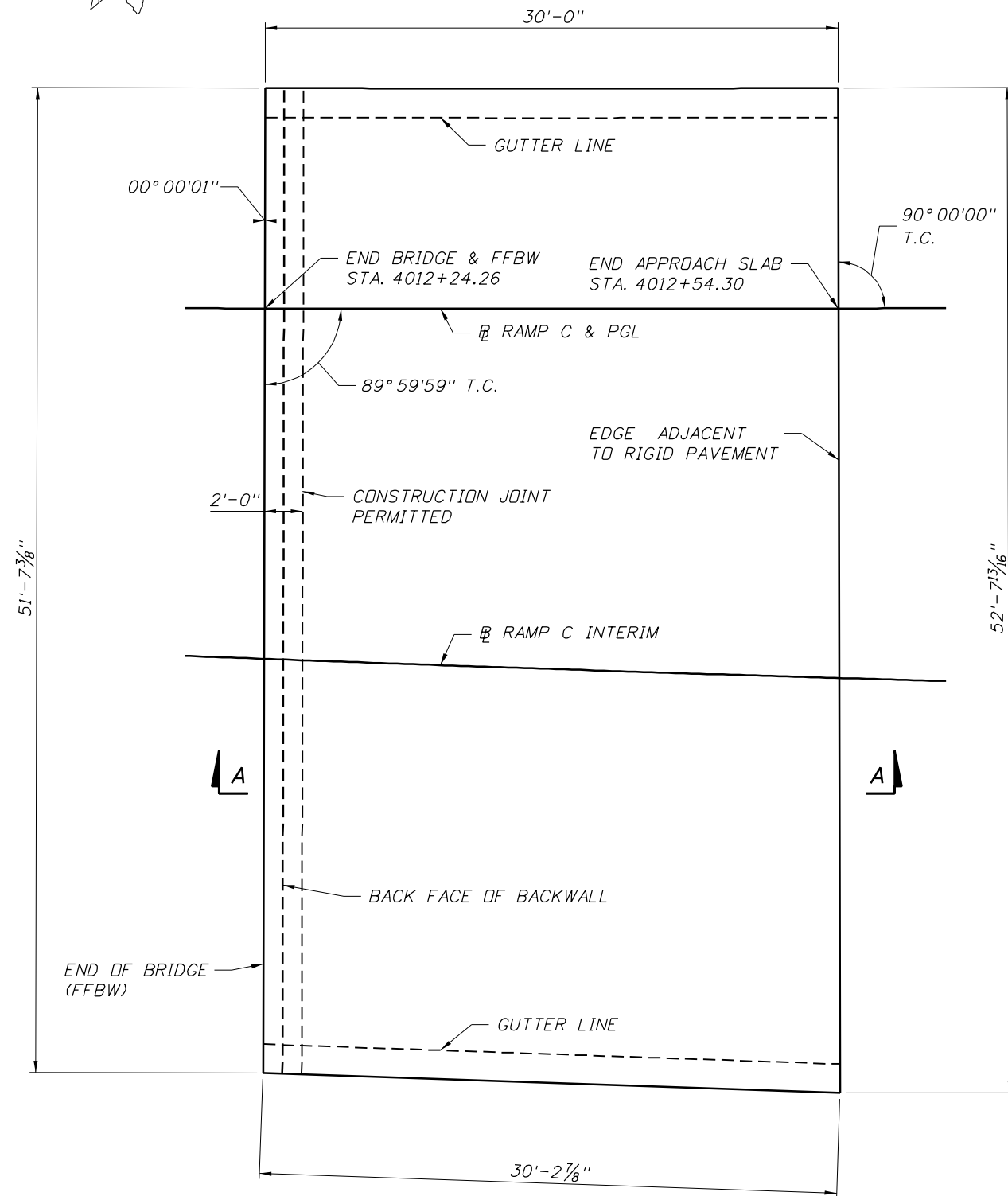
Quantities shown are for one Approach Slab and where applicable, raised sidewalks. Quantities do not include items placed on the slab such as Traffic Railing, Pedestrian/Bicycle Railings or Traffic Separators.

For Traffic Railing, Pedestrian/Bicycle Railing and Traffic Separator Quantities see Bid Item List.

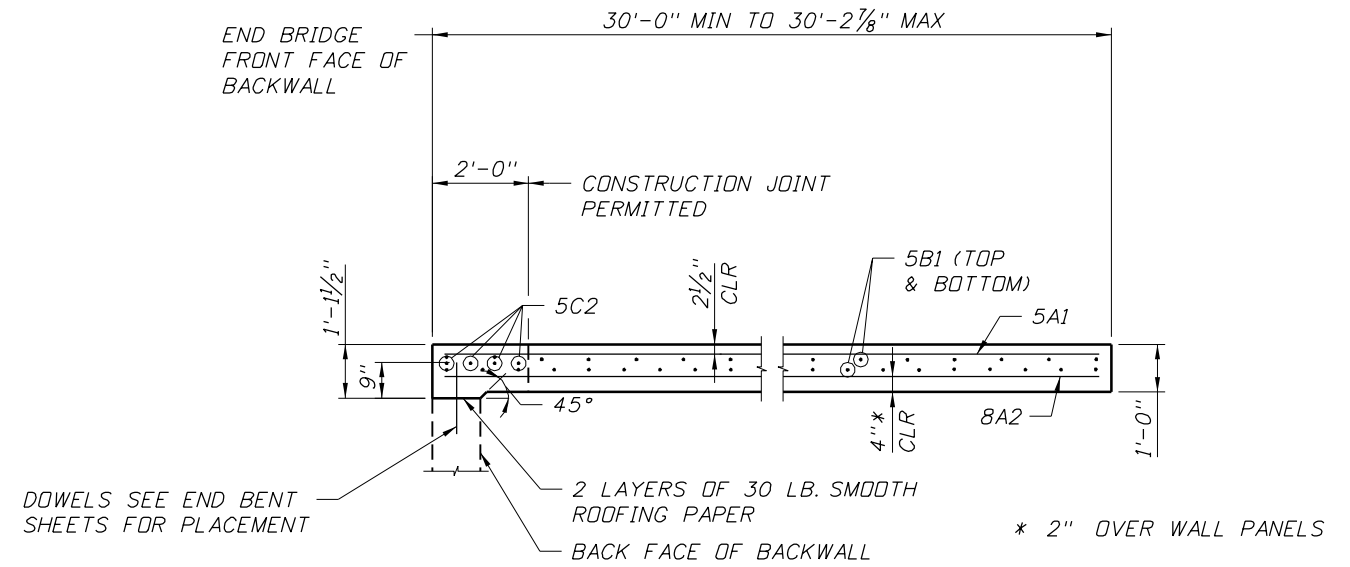
REVISIONS						CORE		BRIDGE NO. 100735	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY: PDB 3/09		FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. SR 400 COUNTY HILLSBOROUGH FINANCIAL PROJECT ID 258415-2-52-01 PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.) SHEET NO. B2-15	
						CHECKED BY: PRS 3/09			
						DESIGNED BY: IRR 3/09			
						CHECKED BY: PRS 3/09			
						APPROVED BY: PAUL R. STEIJLEN		 BRIDGE CONCEPTS, INC. CONSULTING ENGINEERS 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9785 PAUL R. STEIJLEN, PE #44780	
						ENGINEER OF RECORD:			



Direction of Stationing



PLAN



SECTION A-A
(SEE INDEX No. 20910 FOR ADDITIONAL DETAILS)

APPROACH SLAB INDEX NO. 20910 TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES								
LOCATION	DIMENSIONS					ANGLE ϕ	REINFORCING STEEL (Lbs.)	CLASS II CONCRETE (C.Y.)
	L 1	L 2	M1	M2	N			
END BENT 2 (END BRIDGE)	30'-2 7/8"	30'-0"	1'-6 1/2"	1'-6 1/2"	48'-6 5/16"	00° 00' 01"	11,733	58.38

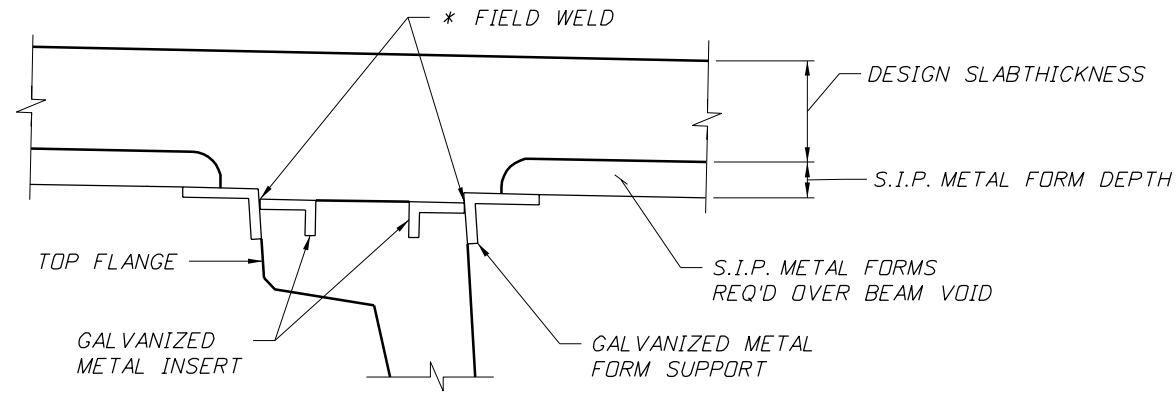
Dimension and Quantity Notes:
Dimensions 'L 1' & 'L 2' are arc dimensions within curved alignments.

Quantities shown are for one Approach Slab and where applicable, raised sidewalks. Quantities do not include items placed on the slab such as Traffic Railing, Pedestrian/Bicycle Railings or Traffic Separators.

For Traffic Railing, Pedestrian/Bicycle Railing and Traffic Separator Quantities see Bid Item List.

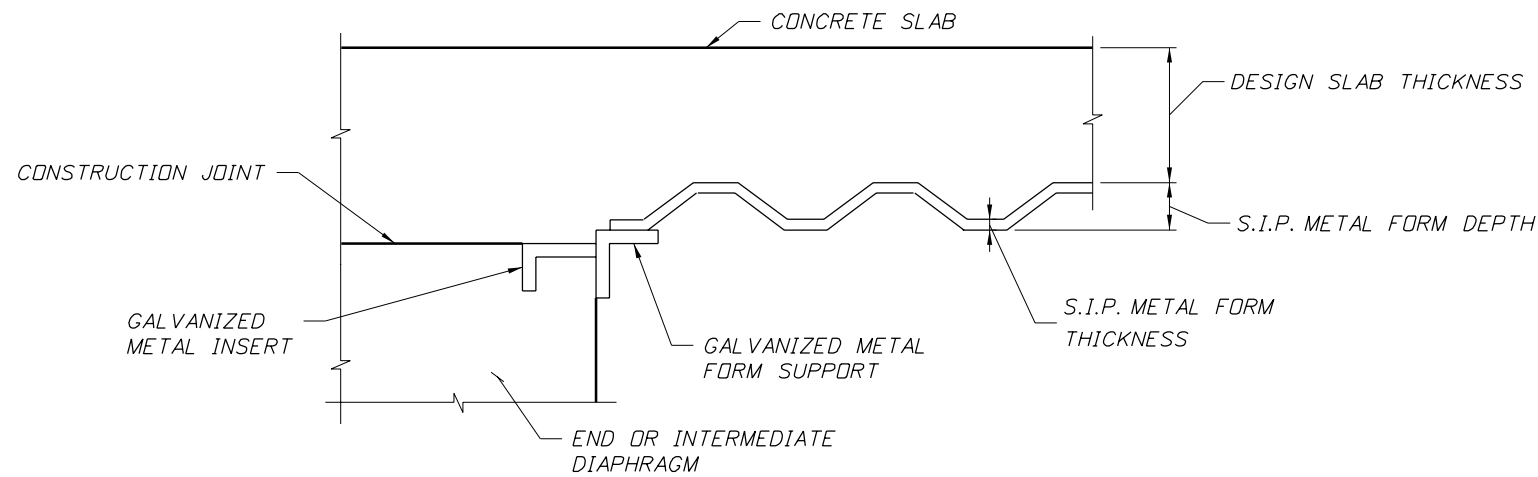
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REVISIONS																																																										
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																																																					
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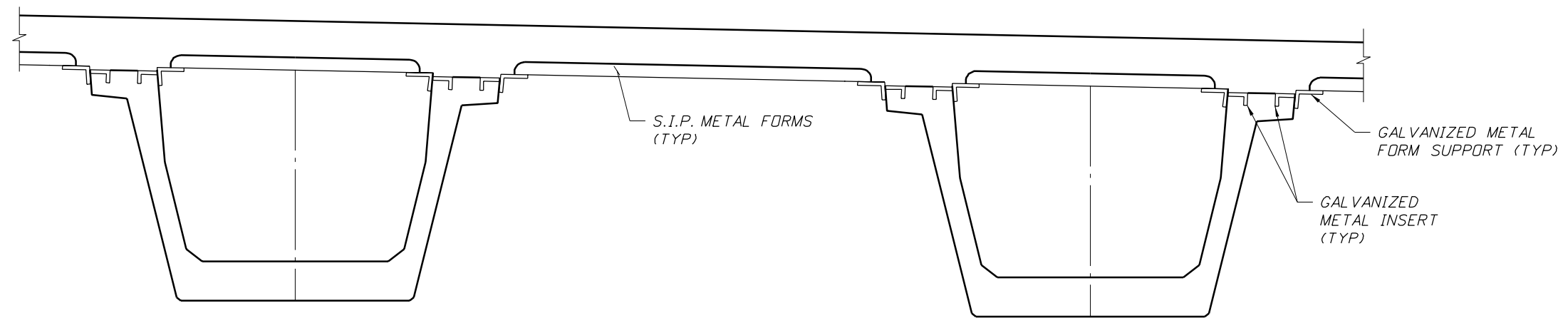


TOP FLANGE DETAIL

* NOTE: ELECTRICAL GROUNDING TO REINFORCING STEEL IS PROHIBITED.



PARTIAL SECTION THRU DIAPHRAGM

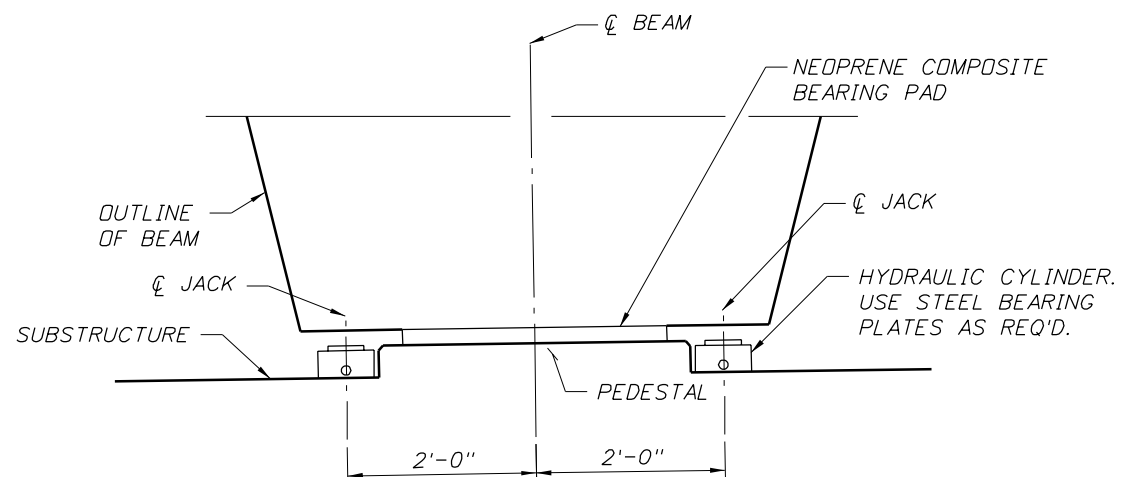


PARTIAL TYPICAL SECTION
FLORIDA U-BEAM DETAILS

BRIDGE NO. 100735

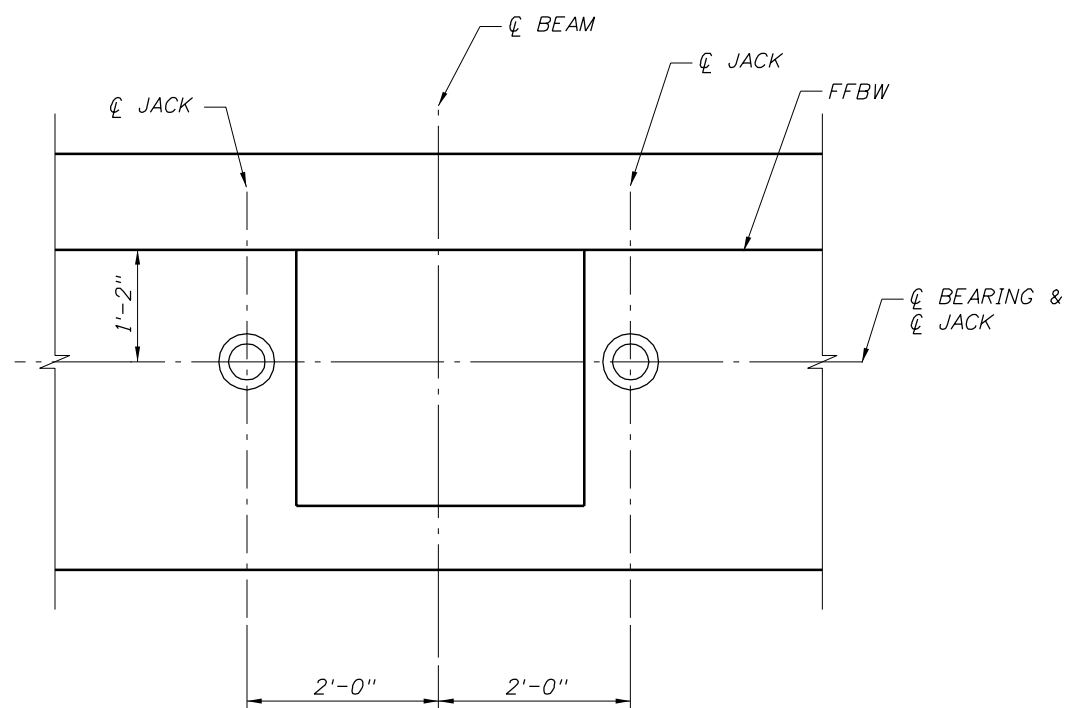
REVISIONS						ENGINEER OF RECORD:			CORE			SHEET TITLE:			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)				
						DRAWN BY	PDB 3/09	ROAD NO.	SR 400	COUNTY	HILLSBOROUGH	FINANCIAL PROJECT ID	258415-2-52-01	SHEET NO.	B2-17
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						DESIGNED BY	IRR 3/09	BRIDGE CONCEPTS, INC.			PROJECT NAME:				
						CHECKED BY	PRS 3/09	CONSULTING ENGINEERS			SHEET TITLE:				
						APPROVED BY	PAUL R. STEIJLEN	15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 0765 PAUL R. STEIJLEN, PE#44780			STAY-IN-PLACE METAL FORM DETAILS				

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U-BEAM BEARING PAD REPLACEMENT DETAIL

MAXIMUM SERVICE LOAD PER JACK (kips)			
LOCATION	DEAD LOAD (kips)	LIVE LOAD + IMPACT (kips)	JACKING LOAD (kips)
RAMP C OVER 26TH ST.	90	75	165



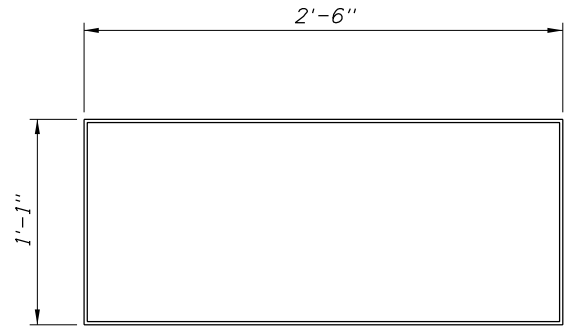
PLAN VIEW

FUTURE BEARING REPLACEMENT

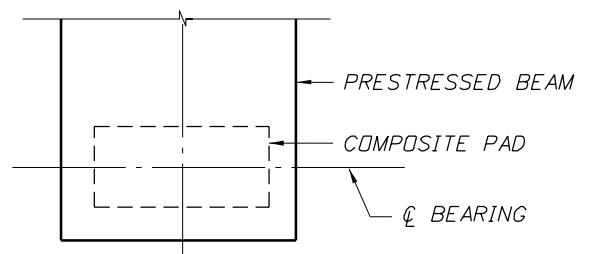
1. DETAILS SHOW POSITION OF LOW-PROFILE HYDRAULIC CYLINDERS (FLAT JACKS) FOR FUTURE BEARING REPLACEMENT.
2. RAISE ALL BEAMS AT A SPAN END SIMULTANEOUSLY (NO DIFFERENTIAL DISPLACEMENT BETWEEN BEAMS PERMITTED).
3. MAXIMUM ESTIMATED SERVICE LOAD PER JACK, WITH LIVE LOAD PLUS IMPACT, IS SHOWN IN THE TABLE.
4. A MINIMUM BEARING AREA SHALL BE PROVIDED FOR THE JACK IN ORDER TO LIMIT THE BEARING STRESS ON THE CONCRETE IN ACCORDANCE WITH THE AASHTO LRFD SECTION 5.7.5.
5. JACKS SHALL BE EQUIPPED WITH A LOCKING RING, WHICH WILL PREVENT MOVEMENT IN THE EVENT THAT HYDRAULIC PRESSURE IS LOST. JACKS SHALL ALSO BE LOCKED OFF PRIOR TO REMOVAL OF ANY BEARING.
6. BEARING REPLACEMENT IS NOT PART OF THE CONTRACT AND DOES NOT NEED TO BE PROVIDED BY THE CONTRACTOR.
7. TRAFFIC IS PERMITTED ON BRIDGE DURING JACKING.

REVISIONS						CORE		BRIDGE NO. 100735	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ENGINEER OF RECORD:		FLORIDA DEPARTMENT OF TRANSPORTATION	
						BRIDGE CONCEPTS, INC. <small>CONSULTING ENGINEERS</small> 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9765 PAUL R. STEIJLEN, PE #44780		SHEET TITLE: BEARING REPLACEMENT	
						DRAWN BY: PDB 3/09 CHECKED BY: PRS 3/09 DESIGNED BY: IRR 3/09 CHECKED BY: PRS 3/09 APPROVED BY: PAUL R. STEIJLEN	ROAD NO. SR 400	COUNTY HILLSBOROUGH	FINANCIAL PROJECT ID 258415-2-52-01
						PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)		SHEET NO. B2-18	

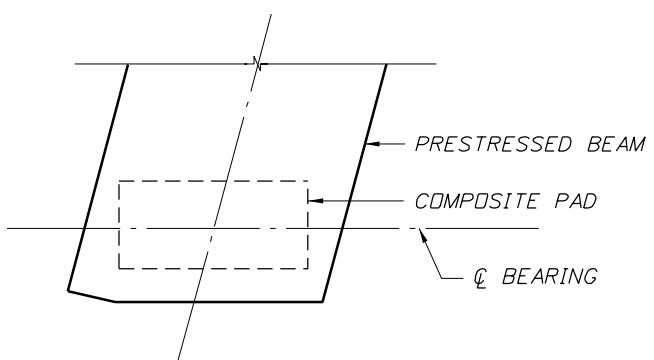
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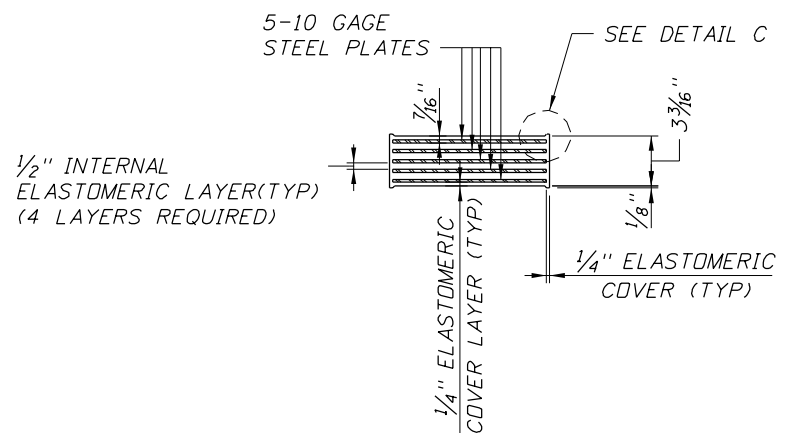
COMPOSITE PAD TYPE U-54
PLAN



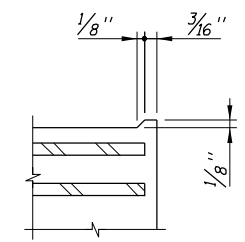
STRAIGHT BRIDGE
PART PLAN



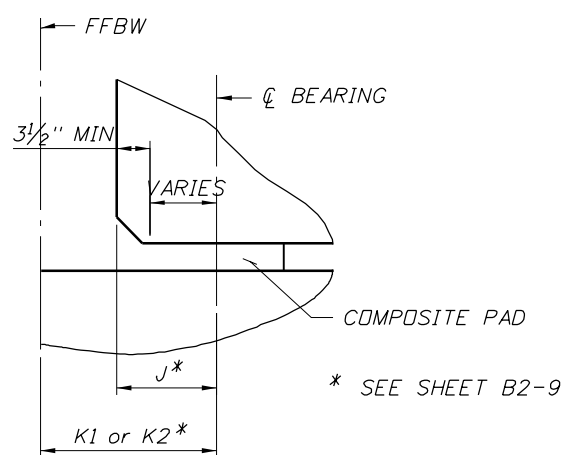
SKewed BRIDGE
PART PLAN



TYPICAL SECTION



DETAIL C



TYPICAL PAD DETAIL
PART SIDE ELEVATION (ALONG ϕ BRG)

BEARING PAD NOTES

NEOPRENE IN ALL BEARING PADS SHALL HAVE A GRADE 50 DUREMETER HARDNESS.
 STEEL PLATES IN COMPOSITE PADS SHALL CONFORM TO ASTM A1011 GRADE 36, TYPE 1.
 VARIATIONS IN PAD DIMENSIONS WILL BE ALLOWED PROVIDED REVISED PADS WILL MEET THE CURRENT SPECIFICATIONS AND ARE APPROVED BY THE ENGINEER.
 BEARING SEAT SHALL BE FINISHED LEVEL. FOR BEAM GRADES LESS THAN 2% BEVELED BEARING PLATES ARE NOT REQUIRED.
 FOR BEAM GRADES GREATER THAN 2% BEVELED BEARING PLATES ARE REQUIRED.

BEARING PAD SUMMARY TABLE	
LOCATION	NO. REQ'D.
RAMP C OVER 26TH ST.	8

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

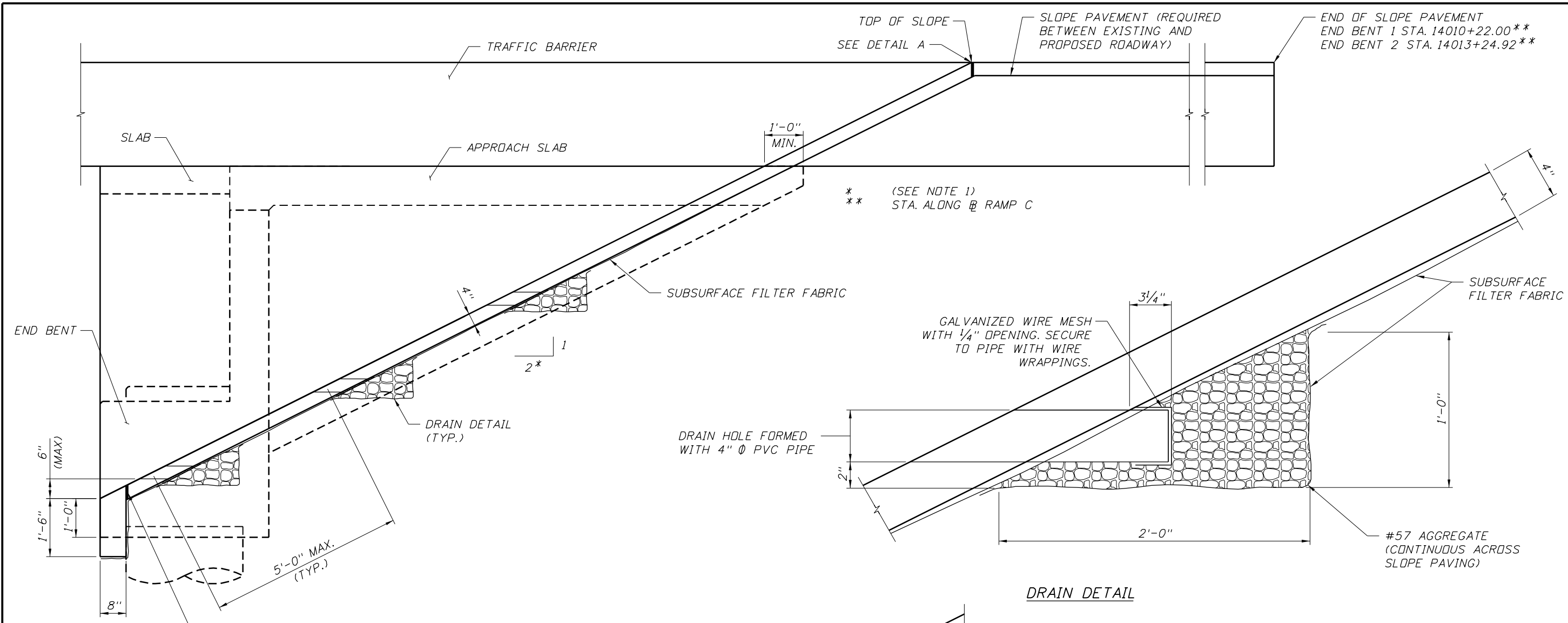
NAME	DATE
DRAWN BY PDB	3/09
CHECKED BY PRS	3/09
DESIGNED BY IRR	3/09
CHECKED BY PRS	3/09
APPROVED BY PAUL R. STEIJLEN	

ENGINEER OF RECORD
BRIDGE CONCEPTS, INC.
 CONSULTING ENGINEERS
 15100 HUTCHINSON ROAD, SUITE 105
 TAMPA, FL 33625
 CERTIFICATE OF AUTHORIZATION NO. 9785
 PAUL R. STEIJLEN, PE, #44780

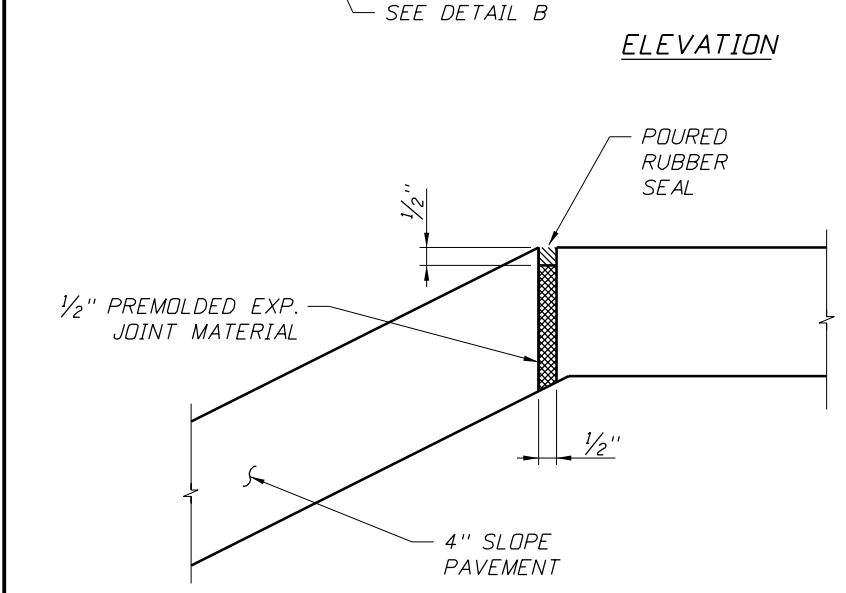
CORE		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

SHEET TITLE		SHEET NO.
NEOPRENE BEARING PADS		
PROJECT NAME: 1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)		B2-19

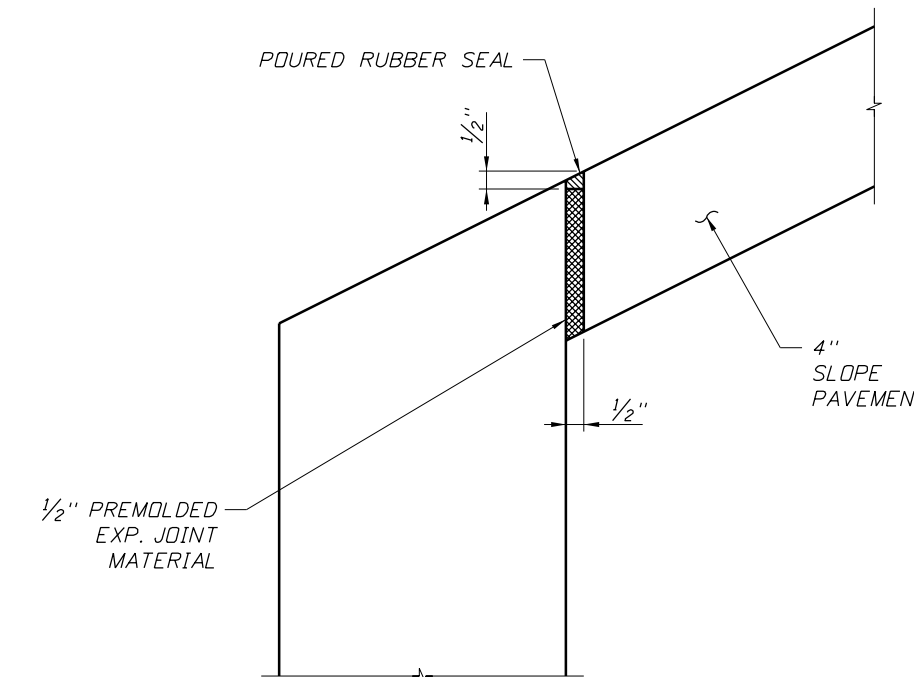
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ELEVATION



DETAIL A



DETAIL B

TOP OF SLOPE
SEE DETAIL A

SLOPE PAVEMENT (REQUIRED BETWEEN EXISTING AND PROPOSED ROADWAY)

END OF SLOPE PAVEMENT
END BENT 1 STA. 14010+22.00**
END BENT 2 STA. 14013+24.92**

** (SEE NOTE 1)
** STA. ALONG RAMP C

DRAIN DETAIL

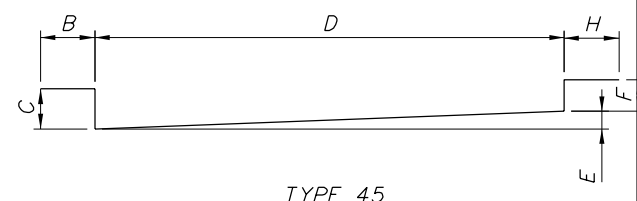
NOTES:

1. THE FILTER FABRIC SHALL BE TYPE D-6 IN ACCORDANCE WITH INDEX 199 OF ROADWAY AND TRAFFIC DESIGN STANDARDS WITH A.D.S. 0.212 TO 0.150 MILLIMETERS.
2. THE COST OF HOLES, WIRE MESH, FABRIC FILTER AND AGGREGATE TO BE INCLUDED IN THE COST OF CONCRETE SLOPE PAVEMENT (4" THICK).
3. ALL CONSTRUCTION JOINTS WITHIN THE SLOPE PAVEMENT SHALL BE SEALED WITH POURED RUBBER MATERIAL. ALL COST FOR SUPPLYING AND PLACING THE POURED RUBBER SHALL BE INCLUDED IN PAY ITEM 524-2-2.
4. THE TYPICAL DETAILS FOR CONCRETE SLOPE PAVEMENT SHALL BE USED TO REPLACE THE SLOPE PAVEMENT WHICH HAS BEEN REMOVED AND FOR NEW SLOPE PAVEMENT.
5. SLOPE AND DIMENSION SHOWN ARE TYPICAL DETAILS. ADJUST TO MATCH EXISTING.

REVISIONS						DRAWN BY		DATES		ENGINEER OF RECORD			SHEET TITLE		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	NAME	DATE	BRIDGE NO. 100735			SLOPE PAVEMENT DETAILS		
						DRAWN BY	PDB	3/09		FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NAME:		
						CHECKED BY	PRS	3/09		SR 400 HILLSBOROUGH 258415-2-52-01			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)		
						DESIGNED BY	IRR	3/09		LAWSONS			SHEET NO. B2-20		
						CHECKED BY	PRS	3/09		3/27/2009 3:16:17 PM			BRIDGE NO. 100735		
						APPROVED BY	PAUL R. STEIJLEN			T:\Sys\Projects\25841525201\struct\B02-100735\2misc\et01.dgn					

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MARK	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	Ø																					
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG											
LOCATION												END BENT 1												NO. REQUIRED = 1											
11	E01	49-6	32	1				49-6																											
5	E03	49-6	10	1				49-6																											
5	E05	11-4	152	4	5	5		2-9 1/2	2-5																										
5	E06	6-2	202	1				6-1 1/2																											
4	E07	49-6	14	1				49-6																											
6	E09	4-9	6	18	1	1		3-5																											
6	E11	1-6	12	1				1-6																											
4	C01	6-1	8	1				6-1																											
4	C02	3-8	12	1				3-8																											
4	C03	3-4	4	1				3-4																											
4	C04	4-2	6	1				4-2																											
4	C05	10-7	1	11				8-6 1/4	1-0	1-0																									
5	R01	4-11	15	11				2-4	1-3 1/2	1-3 1/2																									
5	R02	4-7	15	11				2-0	1-3 1/2	1-3 1/2																									
4	W01	7-1	8	1				7-0 1/2																											
4	W02	VARY	13	11				0-4	0-11	0-11																									
		8-2	0	11				0-4	6-11	6-11																									
4	W03	3-8	13	11				0-4	1-8	1-8																									
6	W04	VARY	16	1				4-1																											
		10-8	0	1				17-3																											
6	W05	16-10	2	1				16-10																											
6	W06	3-11	12	10				2-3	1-8																										
LOCATION												END BENT 2												NO. REQUIRED = 1											
11	E02	52-0	32	1				52-0																											
5	E04	52-0	10	1				52-0																											
5	E05	11-4	160	4	5	5		2-9 1/2	2-5																										
5	E06	6-2	212	1				6-1 1/2																											
4	E08	52-0	14	1				52-0																											
6	E10	4-9	6	18	1	1		3-5																											
6	E11	1-6	13	1				1-6																											
4	C01	6-1	8	1				6-1																											
4	C02	3-8	12	1				3-8																											
4	C03	3-4	4	1				3-4																											
4	C04	4-2	6	1				4-2																											
4	C05	10-7	1	11				8-6 1/4	1-0	1-0																									
5	R01	4-11	15	11				2-4	1-3 1/2	1-3 1/2																									
5	R02	4-7	15	11				2-0	1-3 1/2	1-3 1/2																									
4	W01	7-1	8	1				7-0 1/2																											
4	W02	VARY	13	11				0-4	0-11	0-11																									
		8-2	0	11				0-4	6-11	6-11																									
4	W03	3-8	13	11				0-4	1-8	1-8																									
6	W04	VARY	16	1				4-1																											
		10-8	0	1				17-3																											
6	W05	16-10	2	1				16-10																											
6	W06	3-11	12	10				2-3	1-8																										




TYPE 45

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION						CORE			BRIDGE NO. 100735					
DRAWN BY: PDB 3/09 CHECKED BY: PRS 3/09 DESIGNED BY: IRR 3/09 CHECKED BY: PRS 3/09 APPROVED BY: PAUL R. STEIJLEN						ENGINEER OF RECORD: BRIDGE CONCEPTS, INC. <small>CONSULTING ENGINEERS</small> 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9789 PAUL R. STEIJLEN, PE #44780			FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 400 HILLSBOROUGH 258415-2-52-01			SHEET TITLE: REINFORCING BAR LIST (1 OF 2) PROJECT NAME: I-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.) SHEET NO.: B2-21		

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MARK	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	Ø														
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG	
LOCATION SUPERSTRUCTURE												NO. REQUIRED = 1																
4	S01	99-7	137	2		1-9		97-9 1/4																			1	
5	S02	VARY	380	1		48-9 1/2																						
		49-11	0	1		50-11 1/4																						
5	S03	8-10	380	17	1	8-3																						
4	S04	3-0	99	29		0-0		1-0 1/2	0-11	1-0																	66	
4	S05	3-3	99	29		0-0		1-1 3/4	1-0 3/4	1-0																	62	
6	D01A	48-10	5	1		48-9 1/2																						
6	D01B	51-0	5	1		50-11 1/4																						
5	D02	3-2	4	1		3-2																						
5	D03	5-8	4	1		5-7 1/2																						
5	D04	4-10	16	1		4-10																						
6	D05	6-7	5	45		1-0		0-8 3/4	3-2	0-2 1/2	0-7 1/4	1-0																
6	D06	9-0	5	45		1-0		0-8 3/4	5-7 1/2	0-3 1/4	0-7	1-0																
6	D07	8-2	20	45		1-0		0-8 3/4	4-10	0-3	0-7	1-0																
4	D08	4-11	36	4	5	5		0-8 1/2	1-4 1/2																			
4	D09	5-10	36	9	5	5		2-0 1/2	0-8 1/2	0-8 1/2	1-4																	
LOCATION APPROACH SLAB 1												NO. REQUIRED = 1																
5	A1	VARY	50	1		29-8																						
		30-2	0	1		30-6 1/2																						
8	A2	VARY	66	1		29-8																						
		31-8	0	1		33-6 1/2																						
5	B1	VARY	75	1		48-3 1/2																						
		48-7	0	1		48-9 1/2																						
5	C1	5-0	62	1		5-0																						
5	C2	48-10	4	1		48-9 1/2																						
LOCATION APPROACH SLAB 2												NO. REQUIRED = 1																
5	A1	VARY	54	1		29-8																						
		29-10	0	1		29-10 1/2																						
8	A2	VARY	71	1		29-8																						
		29-10	0	1		29-10 1/2																						
5	B1	VARY	72	1		51-3																						
		51-9	0	1		52-3																						
5	C1	5-0	60	1		5-0																						
5	C2	51-4	4	1		51-3 1/2																						

REVISIONS						ENGINEER OF RECORD:		CORE			BRIDGE NO. 100735		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	
						CHECKED BY	PRS	3/09	SR 400 HILLSBOROUGH 258415-2-52-01			REINFORCING BAR LIST (2 OF 2)	
						DESIGNED BY	IRR	3/09	PROJECT NAME:			1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE	
						CHECKED BY	PRS	3/09	SR 400 HILLSBOROUGH 258415-2-52-01			(RAMP C OVER 26TH ST.)	
						APPROVED BY	PAUL R. STEIJLEN		LAWSONS			SHEET NO. B2-22	
						 BRIDGE CONCEPTS, INC. CONSULTING ENGINEERS 15100 HUTCHINSON ROAD, SUITE 105 TAMPA, FL 33625 CERTIFICATE OF AUTHORIZATION NO. 9785 PAUL R. STEIJLEN, PE #44780		3/27/2009 3:16:30 PM T:\Sys\Projects\25841525201\struct\B02-100735\B2rebar11s101.dgn					

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Load Rating Summary Details for Prestressed Concrete Bridges (Flat Slab and Deck/Girder)

Table Date 01-01-07

LRFR w/o Appendix D.6 (LFD)³

Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength) or Stress (Service)					Shear (Strength)					Comments:
				LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	
Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.97	1.85	N/A	A	X	1.23	2.82	N/A	B	Y	Int. Beam
	Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.97	2.40	N/A	A	X	1.23	3.66	N/A	B	Y	Int. Beam
	Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.97	1.97	N/A	A	X	1.23	N/A	N/A	N/A	N/A	Int. Beam
	Service III (Op)	HL-93	N/A	0.80	1.00	1.00	0.97	2.17	N/A	A	X	1.23	N/A	N/A	N/A	N/A	Int. Beam
Legal Load Rating	Strength I	SU4	35.0	1.35	1.25	1.50	---	---	---	---	---	---	---	---	---	---	---
	Strength I	C5	40.0	1.35	1.25	1.50	---	---	---	---	---	---	---	---	---	---	---
	Strength I	ST5	40.0	1.35	1.25	1.50	---	---	---	---	---	---	---	---	---	---	---
	Service III	SU4	35.0	0.80	1.00	1.00	---	---	---	---	---	N/A	N/A	N/A	N/A	N/A	---
	Service III	C5	40.0	0.80	1.00	1.00	---	---	---	---	---	N/A	N/A	N/A	N/A	N/A	---
Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.97	11.91	714	A	X	1.23	19.6	1176	B	Y	Int. Beam
	Service III	FL120	60.0	0.70	1.00	1.00	0.97	7.08	424	A	X	N/A	N/A	N/A	N/A	N/A	Int. Beam

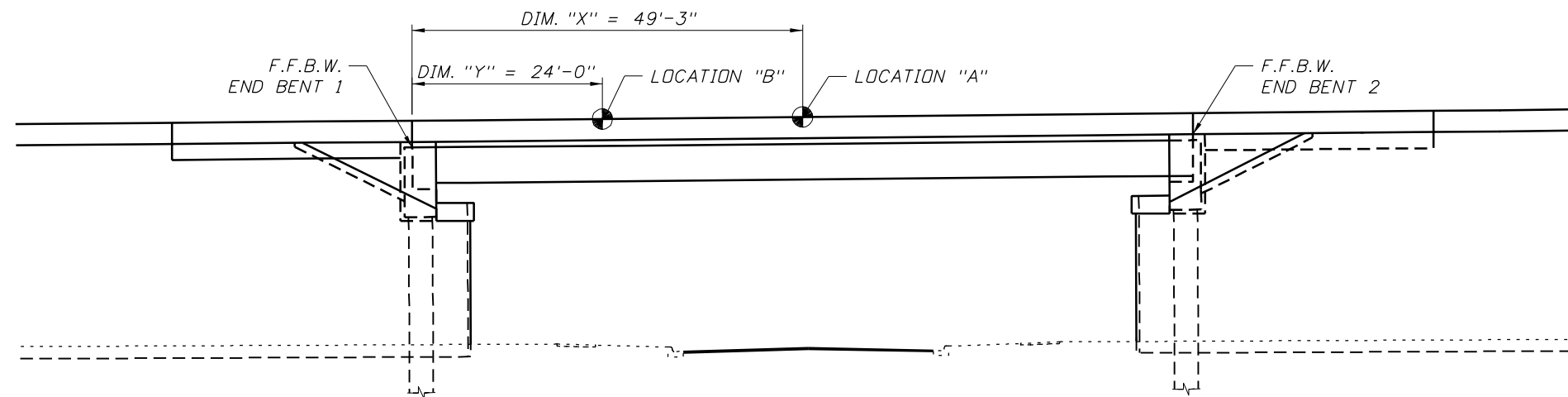
General Notes:

1. This table is based on the requirements established in the January 2007 "Structures Manual".

Table 2 Notes:

- Permit capacity is determined by using the permit vehicle in all lanes.
- If the Design Operating Load Rating is greater than 1, Load Rating using Legal Vehicles SU4, C5, and ST5 is not required.
- Service III Design Inventory tensile stress limits = $6\sqrt{f'c}$. Service III Design Operating, Legal, and Permit tensile stress limits = $7.5\sqrt{f'c}$.
- Has the AASHTO LRFD Specifications Article 5.8.3.5 longitudinal reinforcement been satisfied? Yes No

Interior/exterior beam DF method if other than LRFD.
Other appropriate comments



RAMP C
RATING LOCATIONS

Abbreviations:

- Inv - Inventory
Op - Operating

Controlling Load Rating			
Limit State	Vehicle	Weight (Tons)	Rating Factor
Strength I(Inv)	HL-93	N/A	1.85

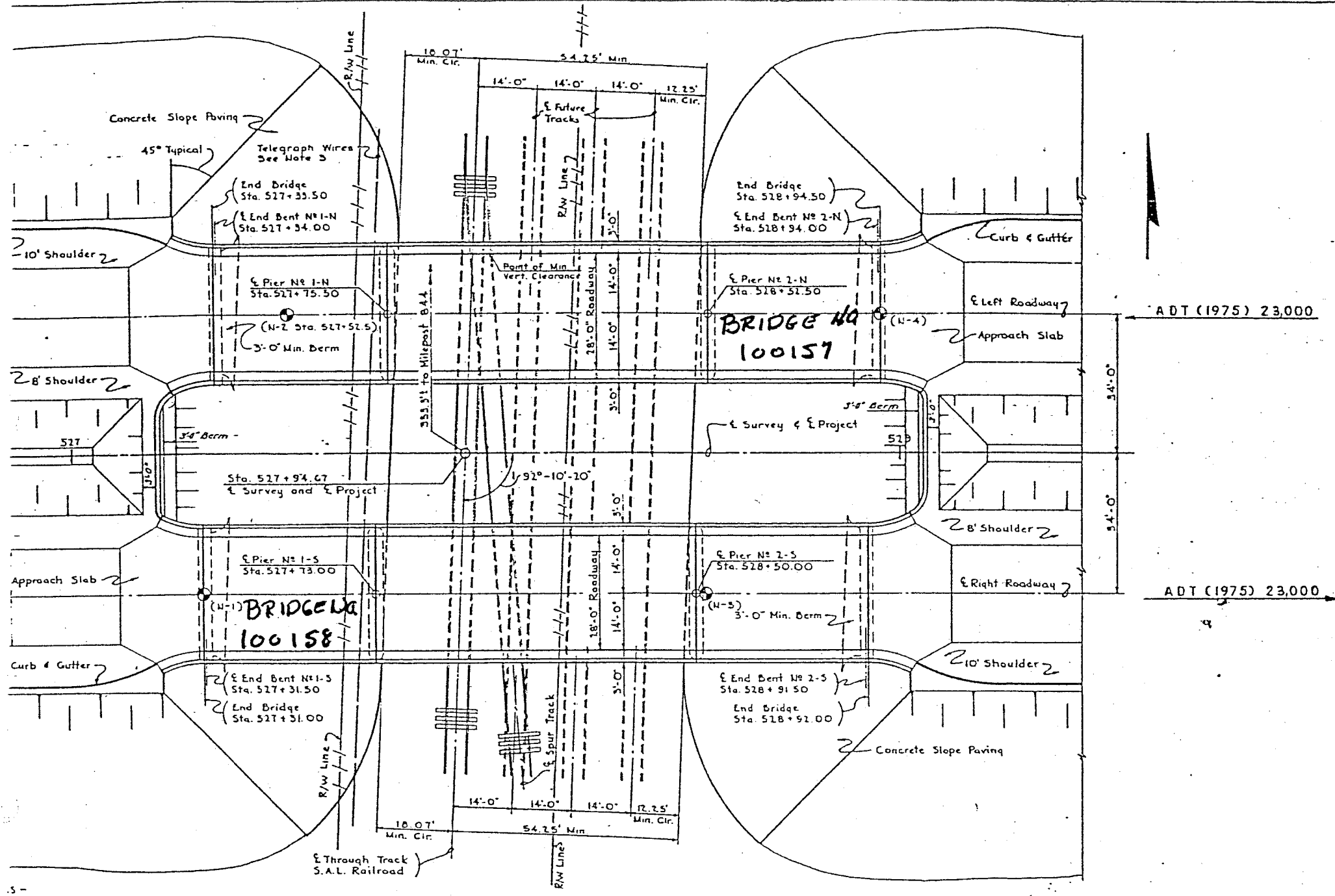
CORE

BRIDGE NO. 100735

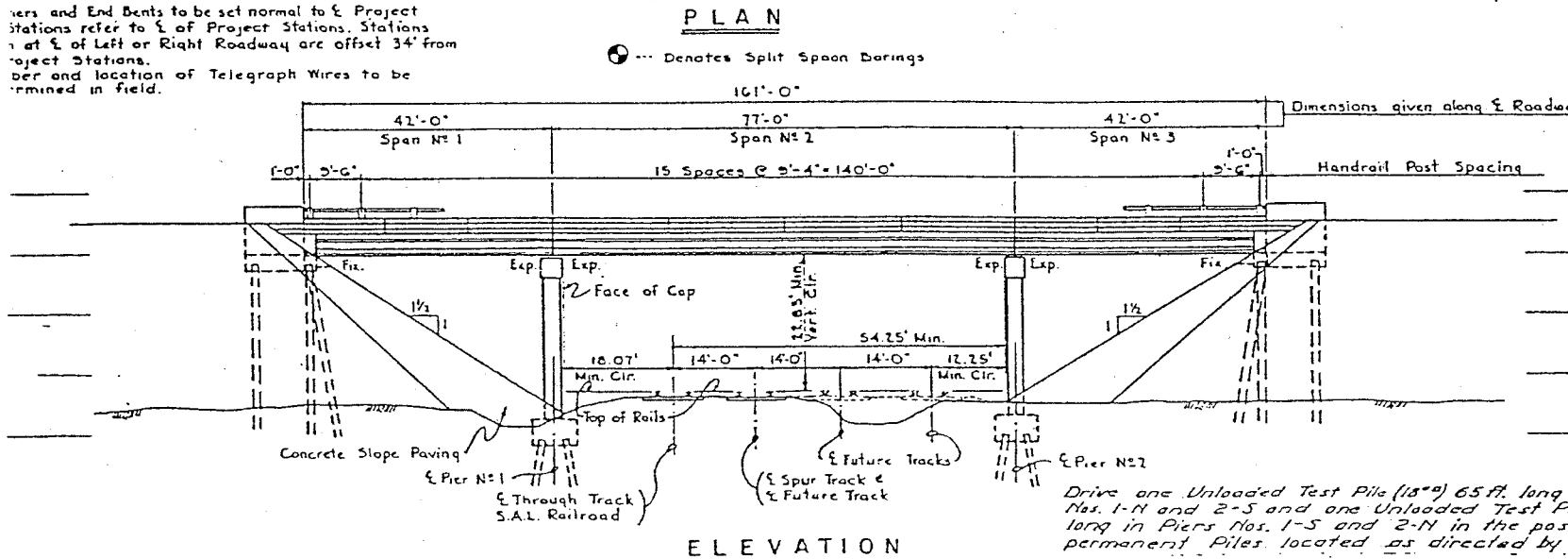
REVISIONS						DRAWN BY		CHECKED BY		DESIGNED BY		CHECKED BY		APPROVED BY		ENGINEER OF RECORD			SHEET TITLE		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE	NAME	DATE	BRIDGE NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME		
						PDB	3/09	PRS	3/09	IRR	3/09	PRS	3/09	PAUL R. STEIJLEN	PAUL R. STEIJLEN, PE#44780	SR 400	HILLSBOROUGH	258415-2-52-01	1-4/LEE ROY SELMON EXPRESSWAY INTERCHANGE (RAMP C OVER 26TH ST.)		
																LOAD RATING CHARTS			SHEET NO. B2-23		

FED. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.	1-4-1(54)15		D-31

State Job No. 10190-3417



5 -
vers and End Bents to be set normal to E Project
Stations refer to E of Project Stations. Stations
at E of Left or Right Roadway are offset 34' from
Project Stations.
ber and location of Telegraph Wires to be
rmined in field.



Drive one Unloaded Test Pile (18") 65 ft. long in End Bents
Nos. 1-N and 2-S and one Unloaded Test Pile (18") 40 ft.
long in Piers Nos. 1-S and 2-N in the position of
permanent Piles located as directed by the Engineer.

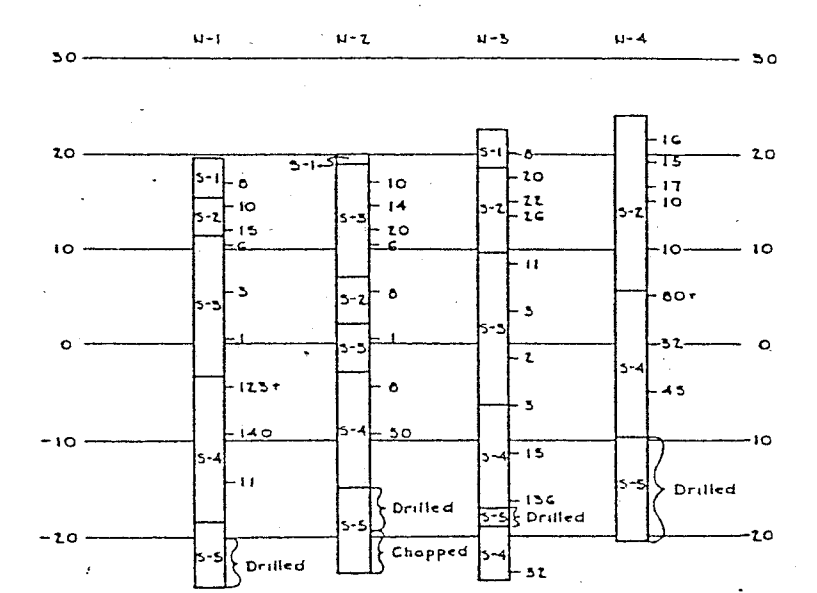
INDEX OF STRUCTURE "N" DRAWINGS

- D-31 PLAN AND ELEVATION
- D-32 END BENT DETAILS
- D-32A WALL DETAILS
- D-33 PIERS
- D-34 DECK REINFORCING
- D-35 GIRDER DETAILS - TYPE II (14-8)
- D-36 GIRDER DETAILS - TYPE III (18-0)
- D-36A GIRDER DETAILS - TYPE III (22-8)

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
300-1A	Class 'A' Concrete	Cu. Yd.	701.8
310-1	Reinforcing Steel	Lb.	131,200
401-1B	Prestressed Beams (Type II 14-8)	Lin. Ft.	330
401-1C	Prestressed Beams (Type III 18-0)	Lin. Ft.	330
401-1E	Prestressed Beams (Type III 22-8)	Lin. Ft.	316
Alt. #21	403-3A	Precoat Concrete Piling Furnished (14" Prestressed)	Lin. Ft. 1,900
Alt. #21	403-3B	Precoat Concrete Piling Furnished (10" Prestressed)	Lin. Ft. 1,800
Alt. #21	403-4A	Precoat Concrete Piling Driven (14" Prestressed)	Lin. Ft. 1,900
Alt. #21	403-4B	Precoat Concrete Piling Driven (10" Prestressed)	Lin. Ft. 1,800
Alt. #21	403-5A	Unloaded Test Piles (Precoat 14" Prestressed)	Lin. Ft. 80
Alt. #21	403-5B	Unloaded Test Piles (Precoat 10" Prestressed)	Lin. Ft. 130
	403-10	Test Loads (50 Tons)	Each 1
Alt. #20	403-25A	Cast-in-Place Concrete Piling (14")	Lin. Ft. 1,900
Alt. #20	403-25B	Cast-in-Place Concrete Piling (10")	Lin. Ft. 1,825
407-1	Aluminum Handrail	Lin. Ft.	644
451-4	Concrete Slope Pavement (4' Thick)	Sq. Yd.	2210

BORING LOGS



LEGEND

STRATA	DESCRIPTION
5-1	Fine Sand
5-2	Blue-Grpy Fine Clayey Sand
5-3	Gray Sandy Clay
5-4	Tan to White Calcareous Clay
5-5	Soft Limestone, Some Clay Seam

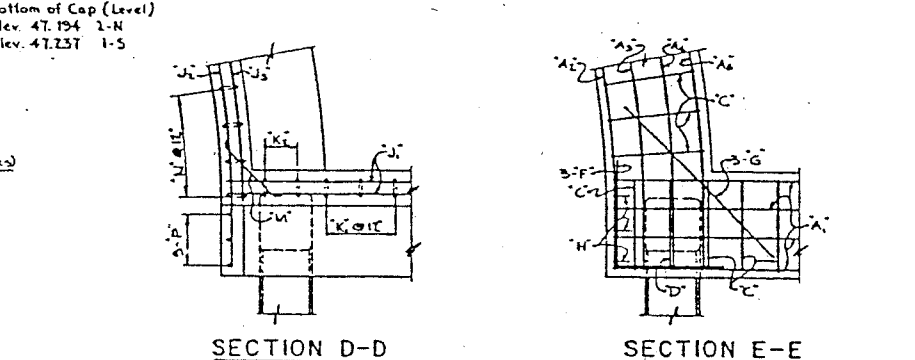
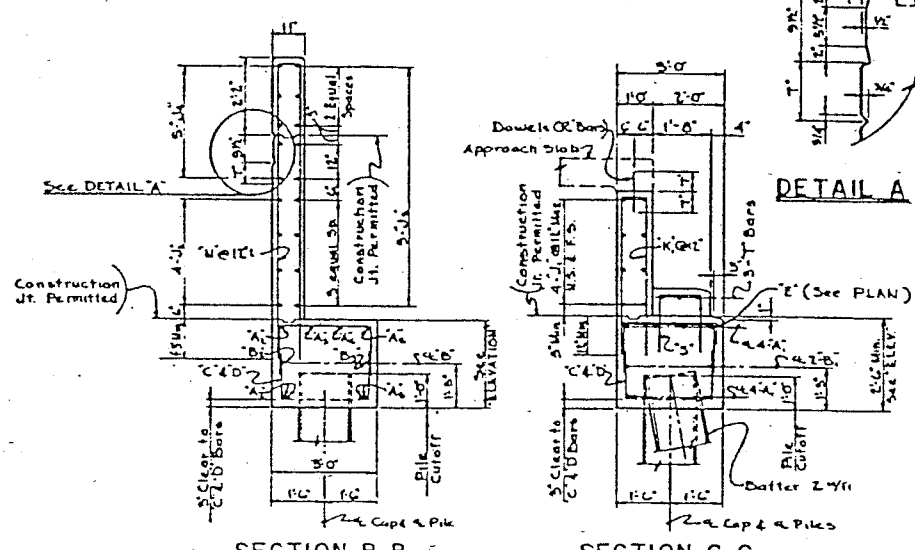
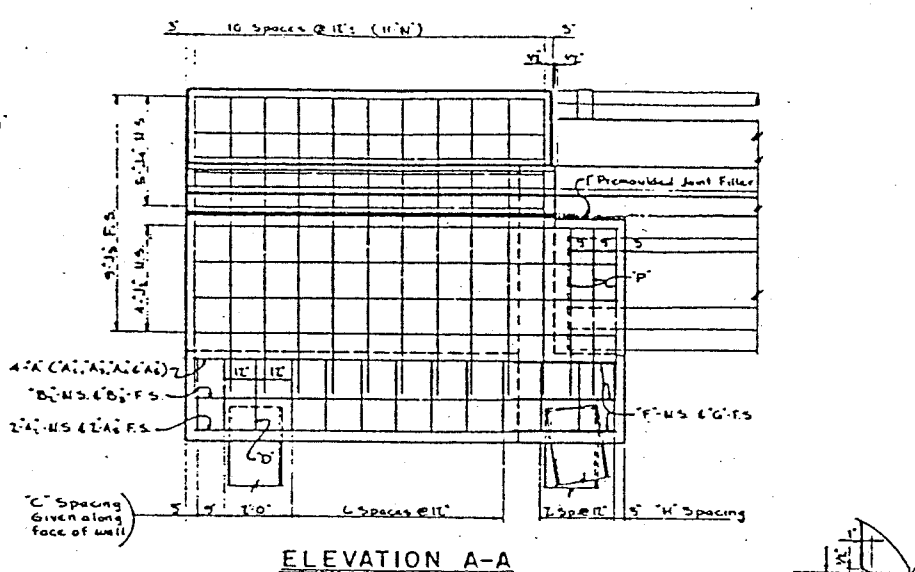
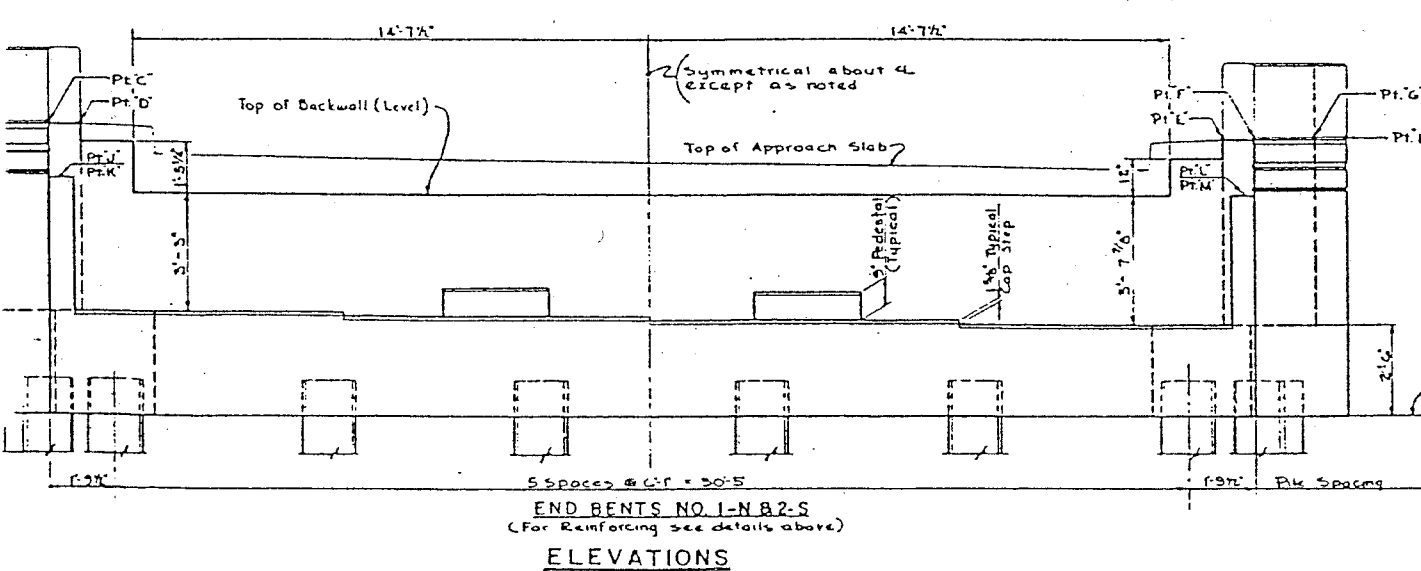
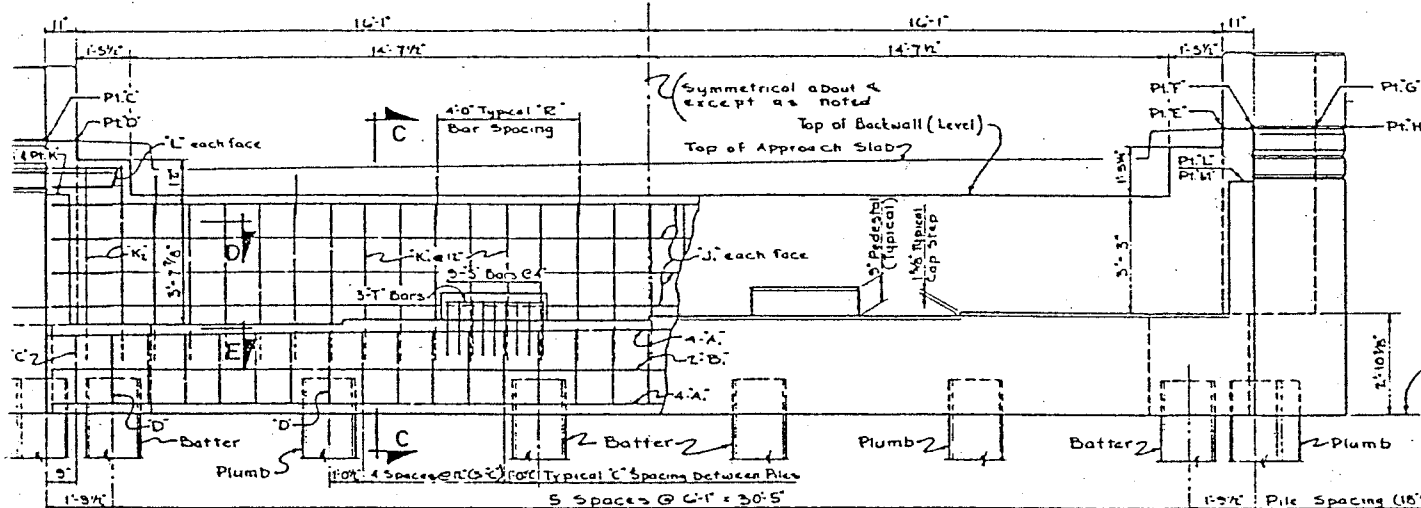
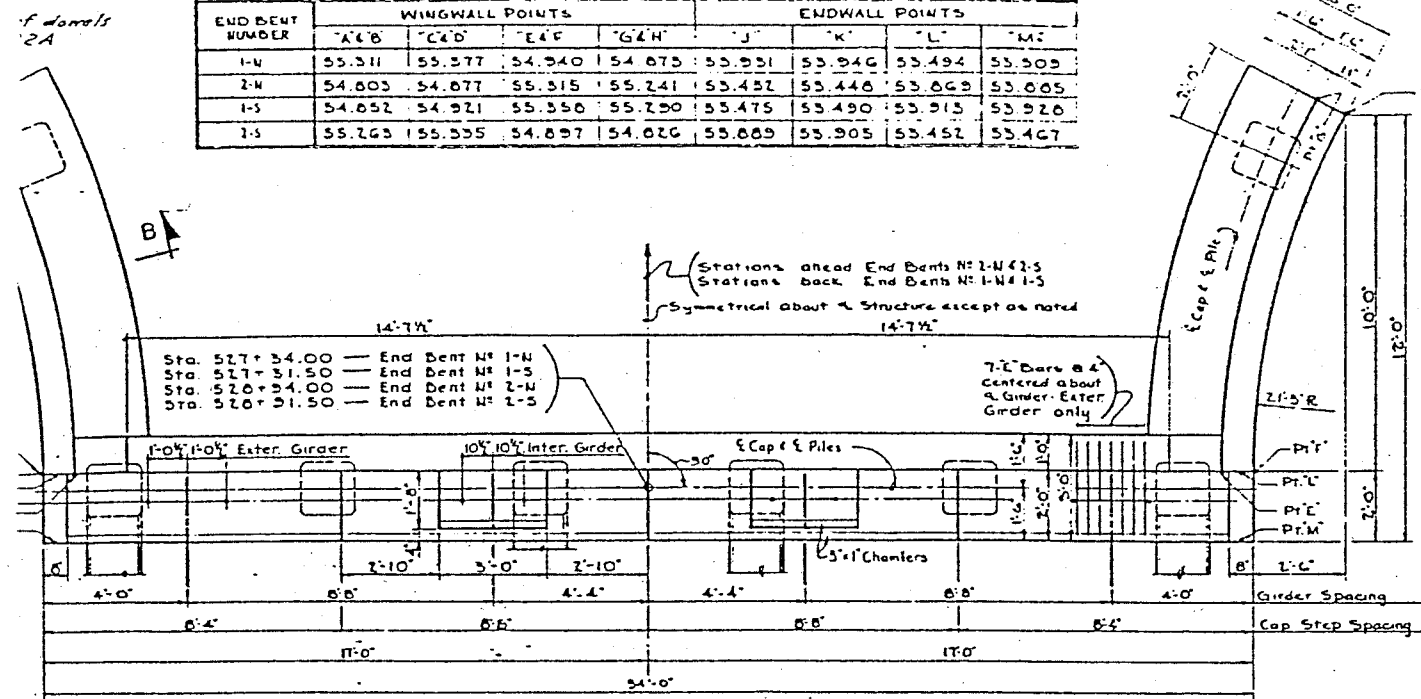
NOTE:
Number at side of Boring Log
indicates number of blows of
140 lb. hammer falling 30 inches
required to advance 1/2" I.D.
Sampler 1 ft.

PLAN AND ELEVATION

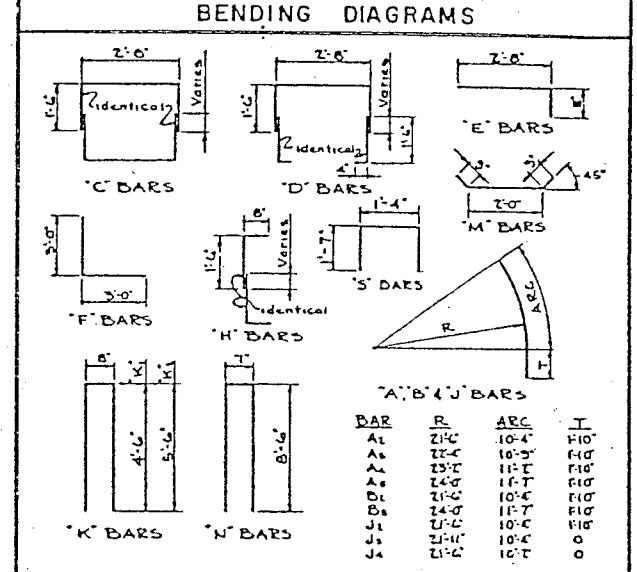
STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION
STRUCTURE "N"

REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
		HILLBOROUGH	10190-3417
Drawn by	R.A.H.	1-60	
Checked by	N.W.D.	3-60	
Quantity by	N.W.D.	3-60	
Checked by	L.H.S.	3-60	

END BENT NUMBER	WINGWALL POINTS				ENDWALL POINTS			
	'A'-'B	'C'-'D	'E'-'F	'G'-'H	'J'	'K'	'L'	'M'
1-N	55.311	55.377	54.940	54.875	55.931	55.946	55.494	55.509
2-N	54.803	54.877	55.315	55.241	55.432	55.448	55.069	55.085
1-S	54.652	54.921	55.350	55.280	55.475	55.490	55.915	55.920
2-S	55.263	55.335	54.897	54.826	55.889	55.905	55.452	55.467



MARK	SIZE	No REOD	LENGTH	LOCATION	BENDING
A	9	8	35'-0"	Cap	Straight
A1	9	6	12'-2"	Cap	See Diagram
A2	9	2	12'-7"	Cap	See Diagram
A3	9	2	13'-0"	Cap	See Diagram
A4	9	6	13'-5"	Cap	See Diagram
B	9	2	35'-0"	Cap	Straight
B1	5	2	12'-2"	Cap	See Diagram
B2	5	2	13'-5"	Cap	See Diagram
C	4	45	11'-6"	Cap	See Diagram
D	4	6	9'-4"	Cap	See Diagram
E	4	14	5'-4"	Cap	See Diagram
F	9	6	6'-0"	Cap	See Diagram
G	9	6	6'-0"	Cap	Straight
H	4	6	4'-6"	Cap	See Diagram
J	4	8	35'-0"	Backwall	Straight
J1	4	8	12'-2"	Wingwall	See Diagram
J2	4	18	10'-4"	Wingwall	See Diagram
J3	4	10	10'-1"	Wingwall	See Diagram
K	4	23	9'-0"	Backwall	See Diagram
K1	4	4	11'-8"	Backwall	See Diagram
L	4	8	1'-1"	Backwall	Straight
M	4	12	2'-0"	Backwall	See Diagram
N	4	22	11'-7"	Wingwall	See Diagram
P	4	6	4'-7"	Endwall	Straight
R	4	6	1'-2"	Backwall	Straight
S	4	18	4'-6"	Cap	See Diagram
T	4	6	2'-0"	Cap	Straight



* ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Class "A" Concrete (Bridges)	Cu Yd.	25.86
Reinforcing Steel	Lb.	3784

END BENT DETAILS

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION
STRUCTURE "N"

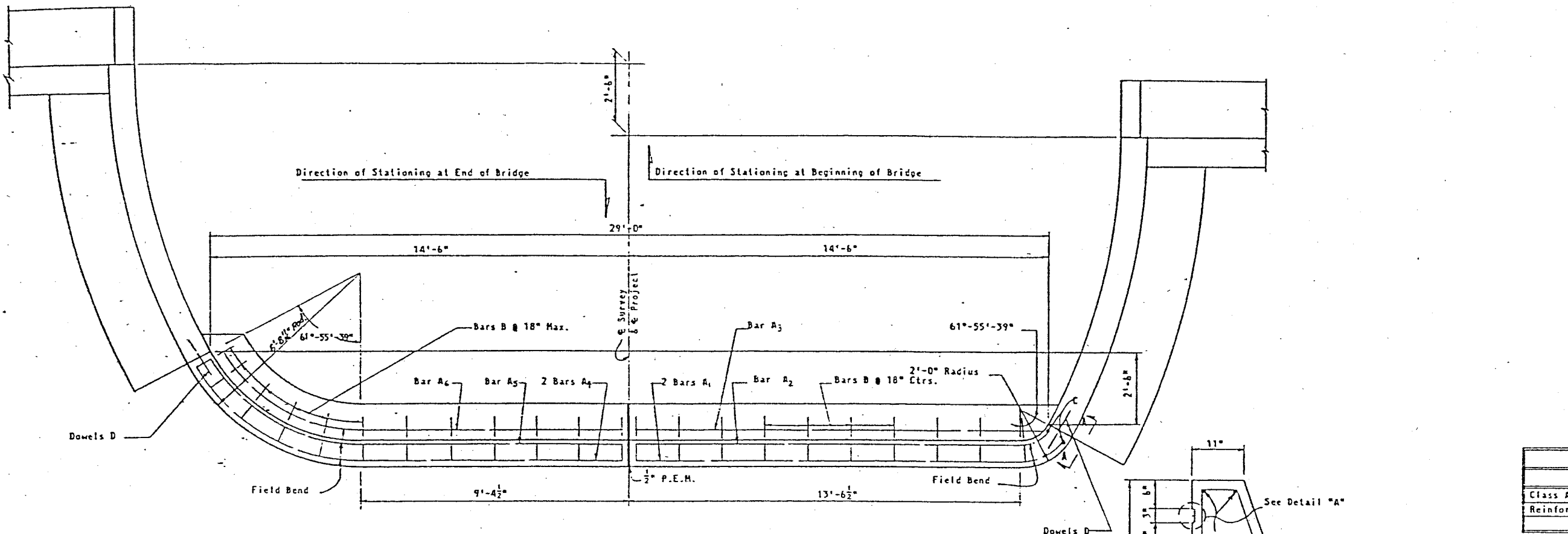
REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
Date		HILLSBOROUGH	10190-3417
Designed by	L.H.S.	2-60	T.W. JENNIFER
Checked by	N.W.B.	2-60	
Quantity by	N.W.B.	2-60	
Checked by	L.H.S.	3-60	
Traced by	L.H.S.	2-60	

Drawing No. 37 of 54

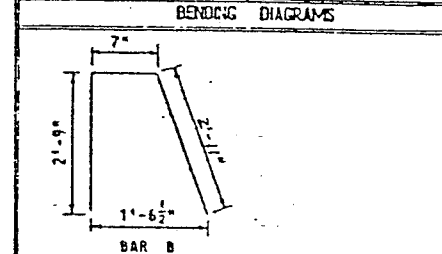
7044

- NOTES
- 1 For GENERAL NOTES see Sheet No. D-1
 - 2 All reinforcing to have "Z" cover unless otherwise noted.
 - 3 BILL OF REINFORCING STEEL and ESTIMATED QUANTITIES are for one End Bent only
 - 4 For pile details see sheet No. B-6. All piles to be Precast Concrete Piling (18") driven to 45 ton Capacity All battered piles to be battered 2%.
 - 5 For piling quantity see ESTIMATED BRIDGE QUANTITIES on sheet No. B-31
 - 6 For details of wall between Caps see Sheet B-32A

PROJ. NO.	STATE	PROJECT NO.	SHEET NO.
3	FLA.	10190-3-17	100157

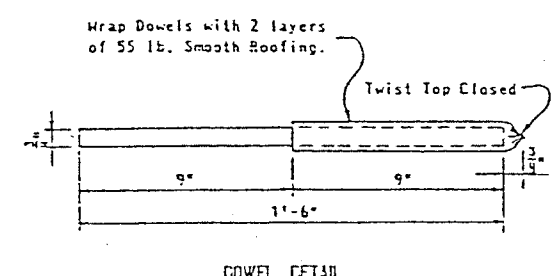
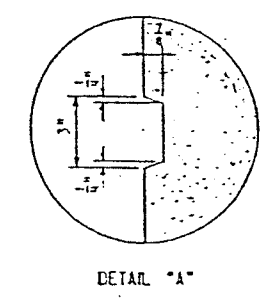
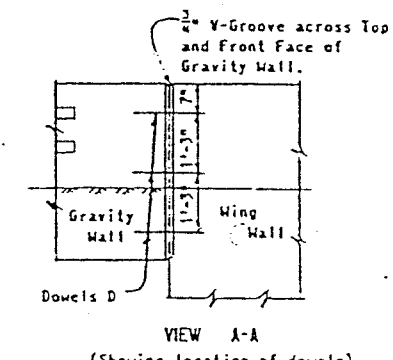
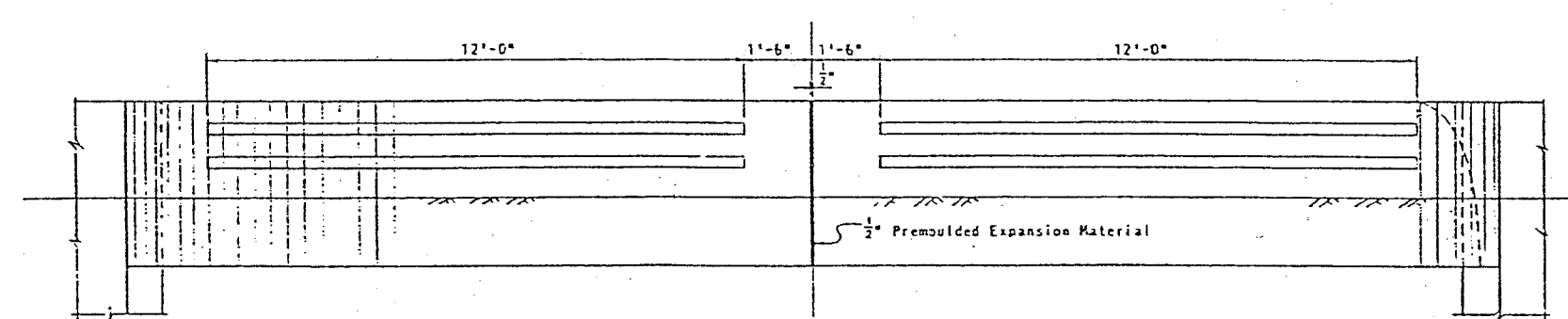
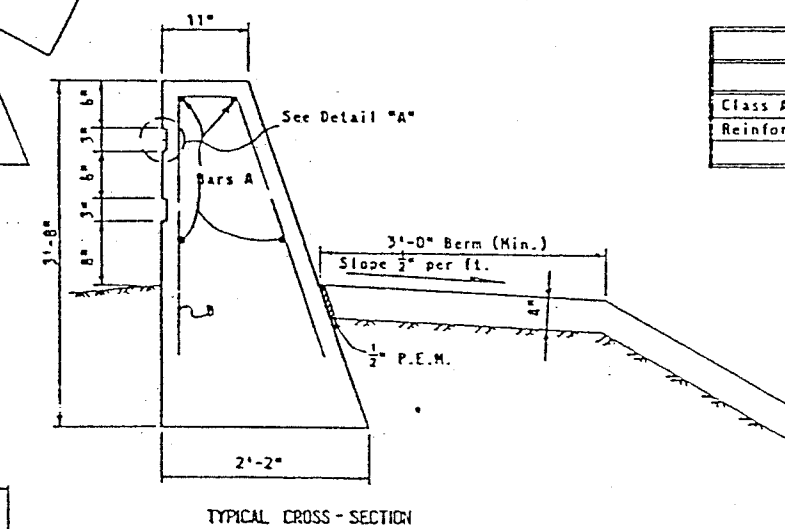


MARK	SIZE	NO. REQ'D.	LENGTH
A ₁	4	2	15'-2"
A ₂	4	1	14'-6"
A ₃	4	1	14'-4"
A ₄	4	2	16'-1"
A ₅	4	1	15'-7"
A ₆	4	1	14'-11"
B	4	22	6'-3"
C	4	2	2'-9"
D	6	6	1'-6"



NOTE: All bar dimensions are out-to-out.

ITEM	UNIT	QUANTITY
Class A Concrete	Cu. Yd.	6.42
Reinforcing Steel	Lb.	190



REVISIONS		ROAD NO.	COUNTY	PROJECT NO.
Date	Description		HILLSBOROUGH	10190-3-17
		Revised	Date	APPROVED BY
		Checked by	M.E.F. 12-60	T.W. Jennings
		Quantity by	M.E.F. 12-60	
		Checked by	M.E.F. 12-60	
		Drawn by	M.E.F. 12-60	
		Traced by	M.E.F. 12-60	

GRAVITY WALL

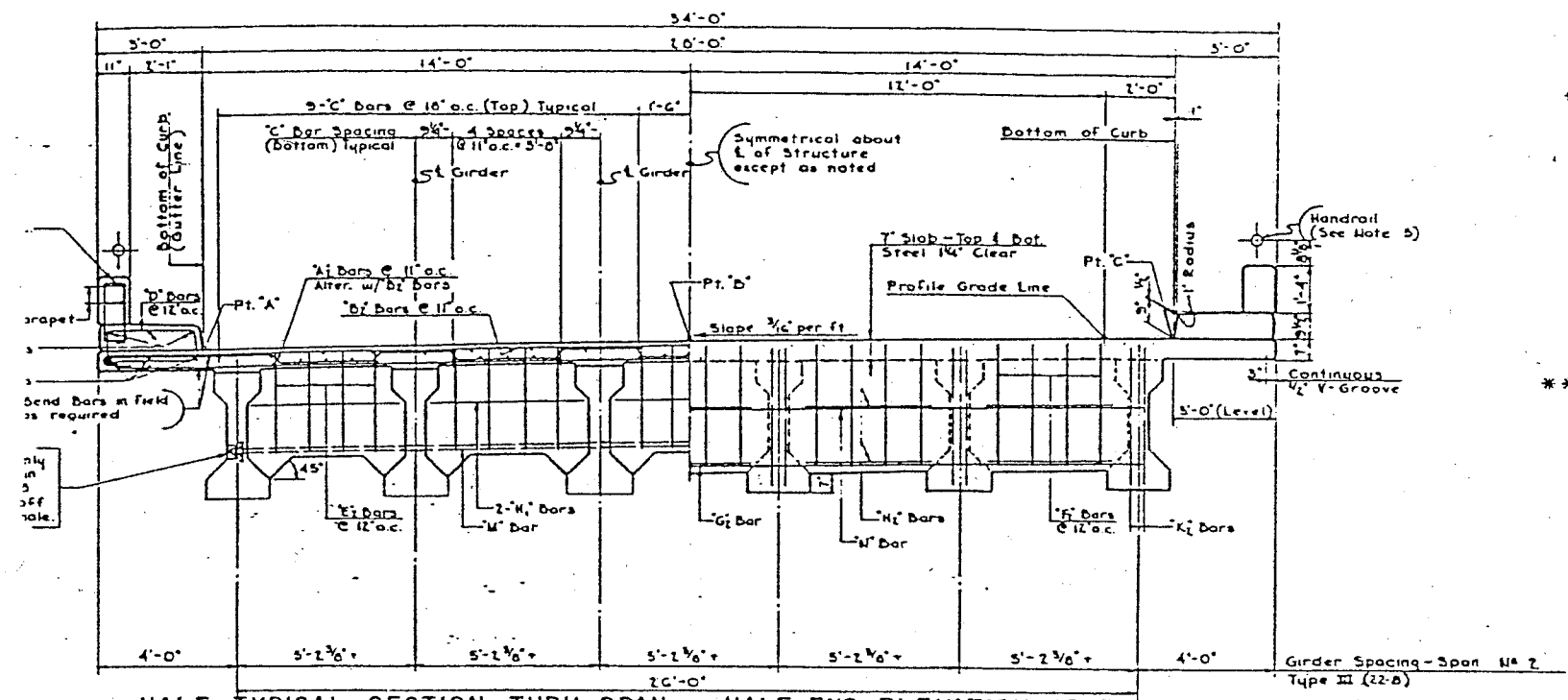
STATE ROAD DEPARTMENT OF FLORIDA

BRIDGE DIVISION

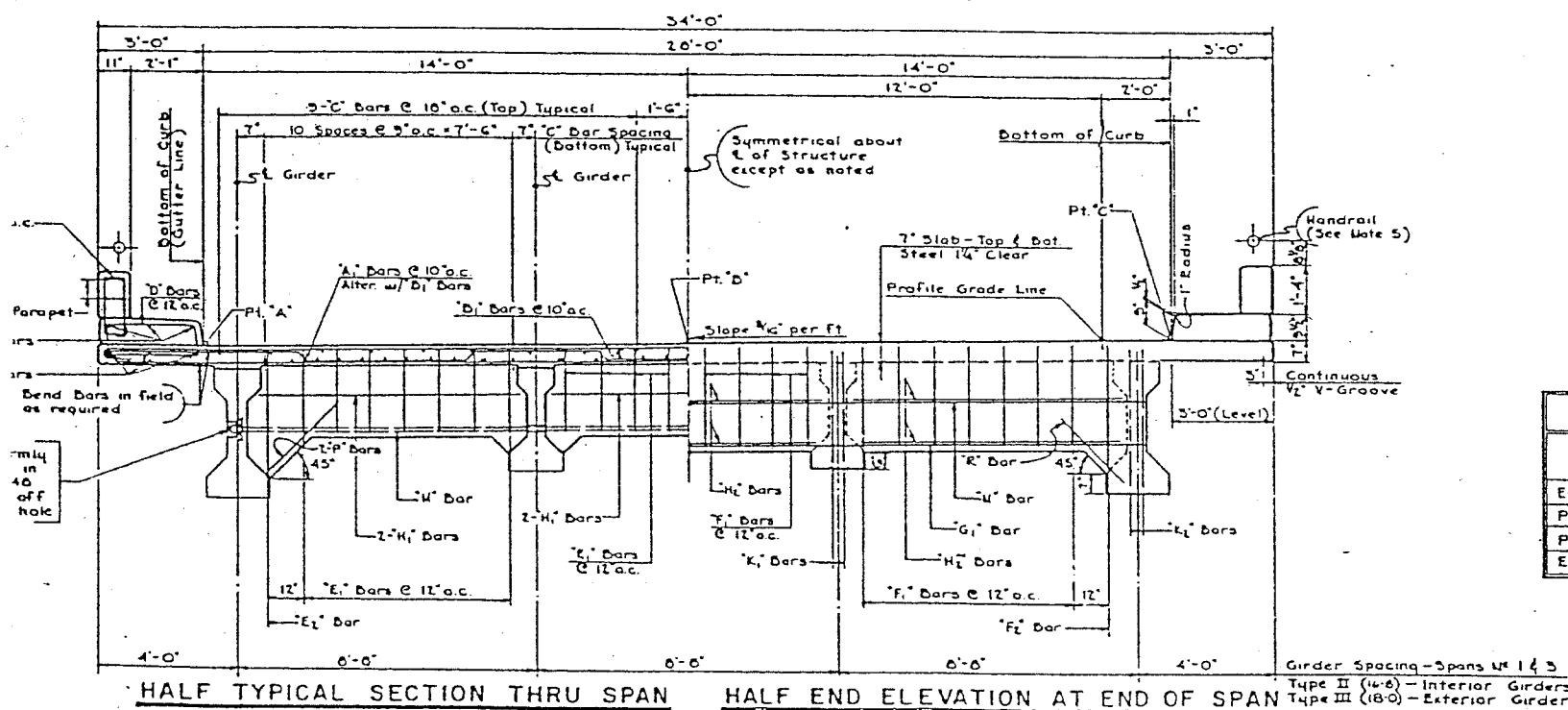
STRUCTURE "N"

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.
3	FLA.	I-4-1(54)19	D-34

State Job # 10150-3417



HALF TYPICAL SECTION THRU SPAN HALF END ELEVATION AT END OF SPAN
 LOOKING STATIONS AHEAD—LEFT ROADWAY
 LOOKING STATIONS BACK—RIGHT ROADWAY
 (SPAN NO. 2)
 (77'-0" SPAN)



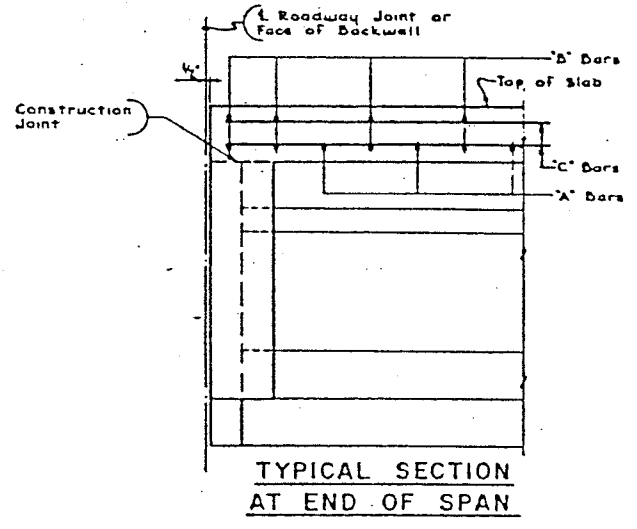
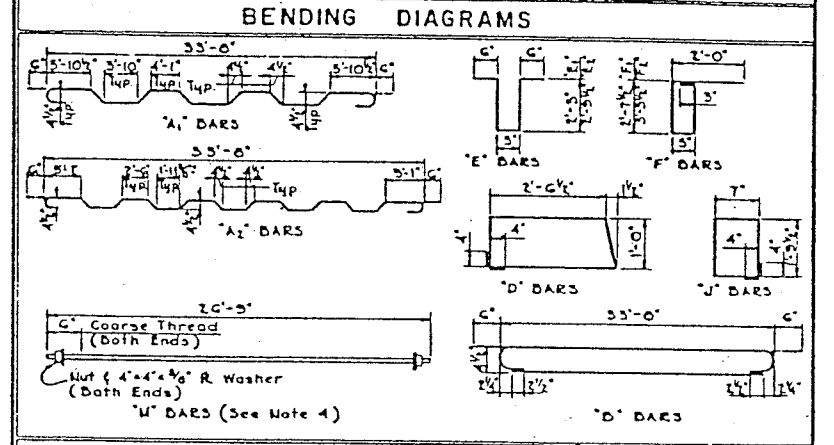
HALF TYPICAL SECTION THRU SPAN HALF END ELEVATION AT END OF SPAN
 LOOKING STATIONS AHEAD—LEFT ROADWAY
 LOOKING STATIONS BACK—RIGHT ROADWAY
 (SPANS NO. 1 & 3)
 (42'-0" SPANS)

NOTES

- For General Notes see sheet No. D-1
 - BILL OF REINFORCING STEEL and ESTIMATED QUANTITIES are for one span as indicated.
 - For TYPICAL DEFLECTION DIAGRAM, see sheet No. D-5
 - End Spans No. 1 & 3 — $D = \frac{1}{16} \times (Type III) \times \frac{1}{2} \times (Type II)$
 Intermediate Span No. 2 — $D = \frac{1}{16} \times (Type III) \times \frac{1}{2} \times (Type II)$
 - "U" Bars shall be smooth round bars of structural or intermediate grade steel and heavy duty nuts.
 - See PLAN AND ELEVATION for Typical Aluminum Handrail Post Spacing on sheet No. D-31.
 - Intermediate Diaphragms are to be located between girders at center of Spans No. 1 & 3 and at third points of Span No. 2.
 - Parapet Dummy Joints and Sidewalk Dummy Joints are to be located at third points of Spans No. 1 & 3 and at quarter points of Span No. 2. See sheet No. D-4 for details. For DIAPHRAGM AND ROADWAY JOINT DETAILS, SLAB HAUNCH DETAILS and PARAPET AND HANDRAIL DETAILS see sheets No. D-3 & D-4.
- ** D. Length provided includes a lap of 30 bar diameters for splice at center of span.

* BILL OF REINFORCING STEEL

MARK	SIZE	SPAN NO. 1 or 3		SPAN NO. 2		LOCATION	BENDING
		NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH		
A	5	43	35'-0"	—	—	Slab	See Diagram
A ₁	4	—	—	63	36'-4"	Slab	See Diagram
B ₁	5	52	67'-11 1/2"	—	—	Slab	See Diagram
D ₁	4	—	—	66	67'-11 1/2"	Slab	See Diagram
C	4	66	41'-7"	** 116	** 33'-0"	Slab	Straight
D	4	66	7'-10 1/2"	156	7'-10 1/2"	Curb & Sidewalk	See Diagram
E ₁	4	22	5'-11"	—	—	Intermed. Diaph.	See Diagram
E ₂	4	2	7'-0"	40	7'-0"	Intermed. Diaph.	See Diagram
F ₁	4	44	7'-11"	—	—	End Diaphragm	See Diagram
F ₂	4	4	9'-3"	40	9'-3"	End Diaphragm	See Diagram
G ₁	6	2	24'-2"	—	—	End Diaphragm	Straight
G ₂	6	—	—	2	24'-2"	End Diaphragm	Straight
H ₁	4	6	7'-5"	20	4'-4"	Intermed. Diaph.	Straight
H ₂	4	12	7'-9"	20	4'-4"	End Diaphragm	Straight
J	4	90	5'-5"	160	5'-5"	Parapet	See Diagram
E ₁	5	6	3'-3"	—	—	End Diaphragm	Straight
E ₂	5	6	4'-0"	24	4'-0"	End Diaphragm	Straight
L	4	24	13'-7"	52	16'-10"	Parapet	Straight
M	1/2	1	26'-5"	2	26'-5"	Intermed. Diaph.	See Diagram
N	4	2	24'-2"	2	24'-2"	End Diaphragm	Straight
P	4	4	3'-0"	—	—	Intermed. Diaph.	Straight
R	4	4	7'-5"	—	—	End Diaphragm	Straight



* ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY	
		SPAN 1 or 3	SPAN 2
Class 'A' Concrete (Bridges)	Cu. Yd.	46.14	63.13
Reinforcing Steel	Lb.	5,109	11,644

SCHEDULE OF FINISHED GRADES

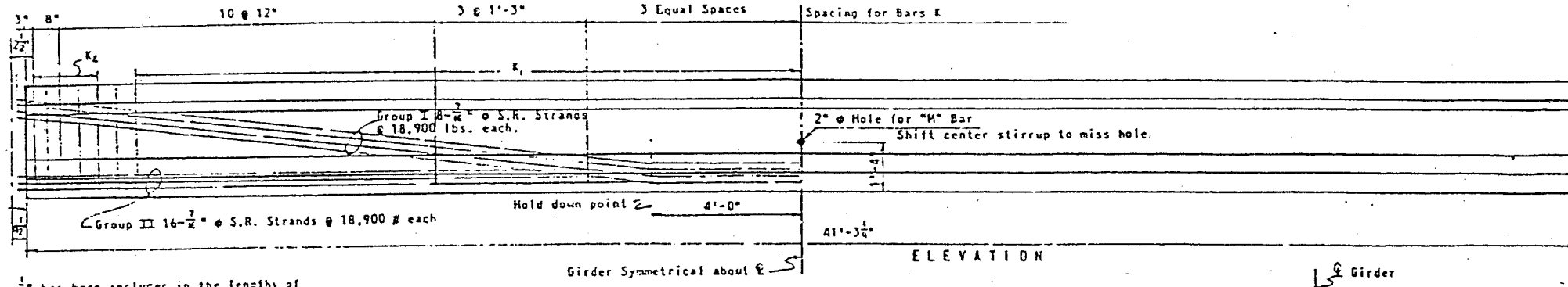
JOINT	LEFT ROADWAY			RIGHT ROADWAY		
	POINT 'A'	POINT 'B'	POINT 'C'	POINT 'A'	POINT 'B'	POINT 'C'
End Bent No. 1	54.161	54.375	54.598	54.142	54.361	54.575
Pier No. 1	54.386	54.605	54.824	54.376	54.596	54.815
Pier No. 2	54.356	54.575	54.794	54.366	54.585	54.804
End Bent No. 2	54.096	54.317	54.536	54.118	54.337	54.556

DECK REINFORCING

STATE ROAD DEPARTMENT OF FLORIDA
 BRIDGE DIVISION
 STRUCTURE "N"

REVISIONS		ROAD NO.	COUNTY	PROJECT NO.
Date	Description		HILLSBOROUGH	10150-3417
	Designed by	W.E.D.	2-60	APPROVED BY <i>T.W. Jennings</i>
	Checked by	N.W.B.	3-60	
	Quantity by	N.W.B.	3-60	

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	FLA.	10190-3417	60	9-85

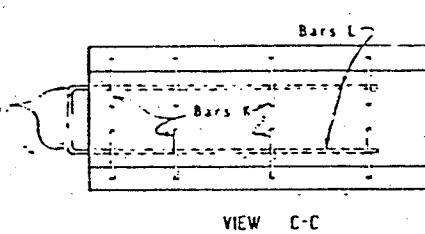
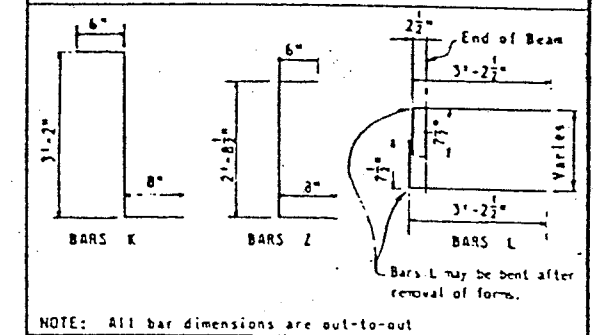


1/8" has been included in the lengths of beams to compensate for span lengths on grade and elastic shortening.

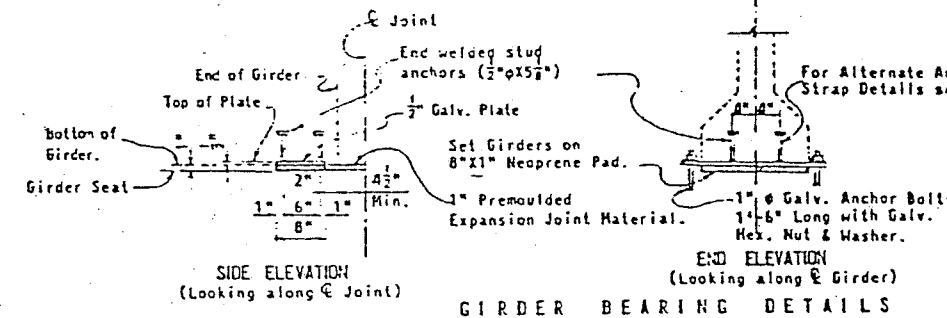
ELEVATION

MARK	SIZE	NO. REQ'D.	LENGTH
F	5	2	40'-11"
K ₁	4	58	4'-4"
K ₂	5	12	4'-4"
L	4	16	3'-10"
Z ₁	4	4	3'-10"
Z ₂	2	8	3'-10"

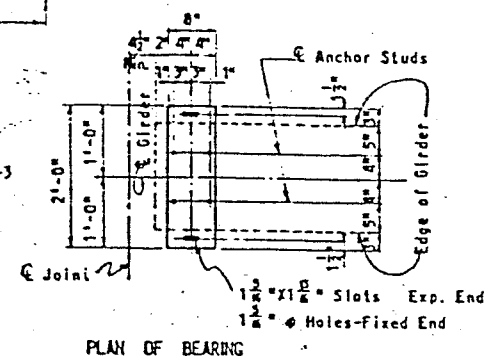
BENDING DIAGRAMS



VIEW C-C



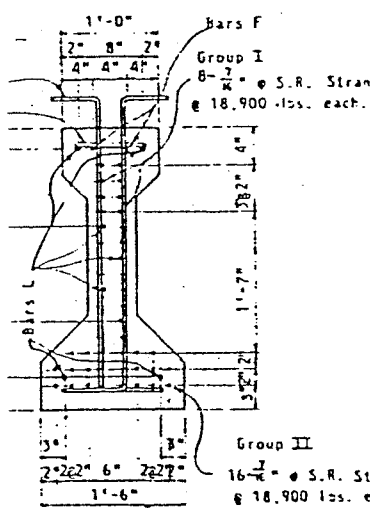
GIRDER BEARING DETAILS



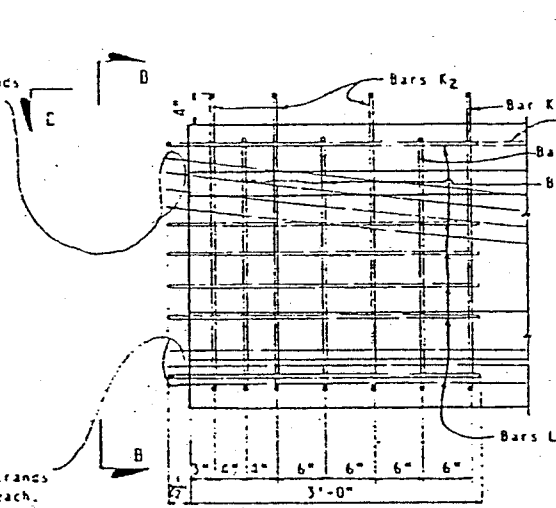
PLAN OF BEARING

GENERAL NOTES

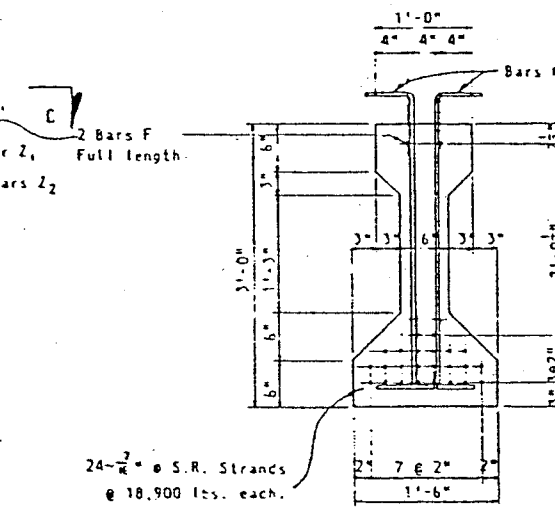
SHOP DRAWINGS: Contractor shall submit Shop Drawings showing complete details of Beams including Reinforcing Steel.
 FORMS & PALLETS: All Beams shall be cast on Concrete floored pallets and in metal forms.
 FINISH: Tops of Beams to be rough floated. At approximately the time of initial set, entire top of beam shall be scrubbed transversely with coarse wire brush to remove all laitance and to produce a roughened surface for bonding slab.
 CONCRETE: Concrete for Beams shall be Class P.
 CYLINDER STRENGTH: At transfer of the tensioning load, the cylinder strength of concrete shall be 4000 p.s.i.
 EXTENSIONS: All Strands and Wires shall extend 2 1/2' beyond ends of beam.
 HANDLING: In the handling of beams, they must be maintained in an upright position at all times and must be picked up from points located a maximum distance of 3 ft. from the ends of the beam.
 GROUTING: All Post-tensioned reinforcement shall be grouted after stressing. See Art. 401.9 of the Specifications.



VIEW B-B

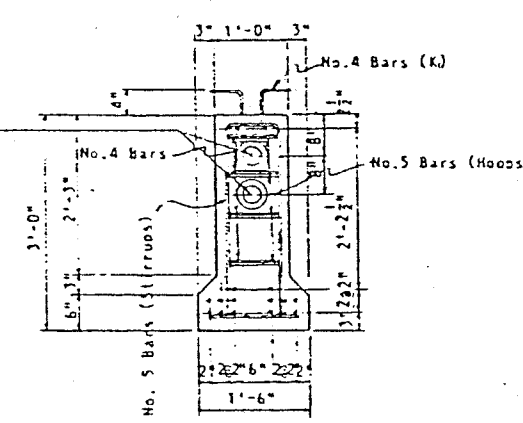


DETAIL AT END OF BEAM

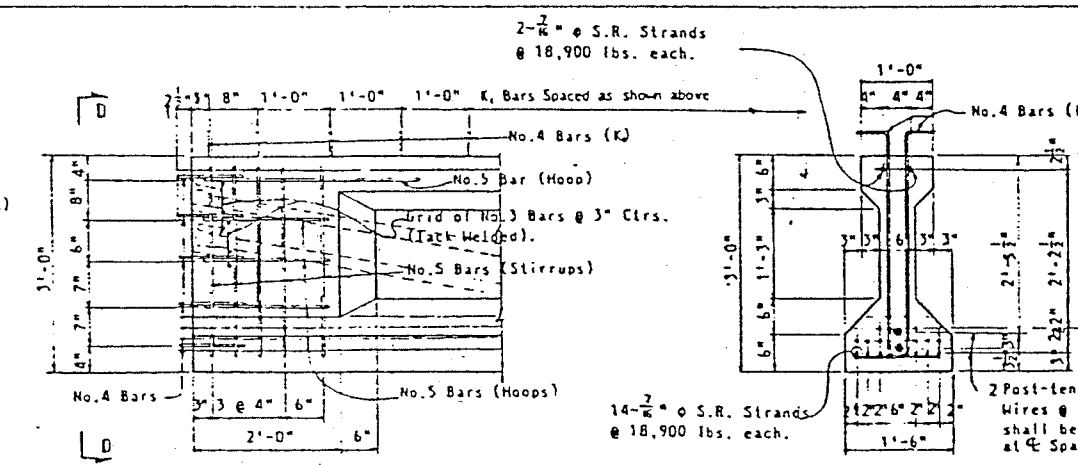


SECTION AT SPAN

2-Wedge Type Anchor Cone for 18-0.196" dia. wires.
 NOTE: Anchorages for post-tensioned cables shall be set normal to the cables.



VIEW D-D



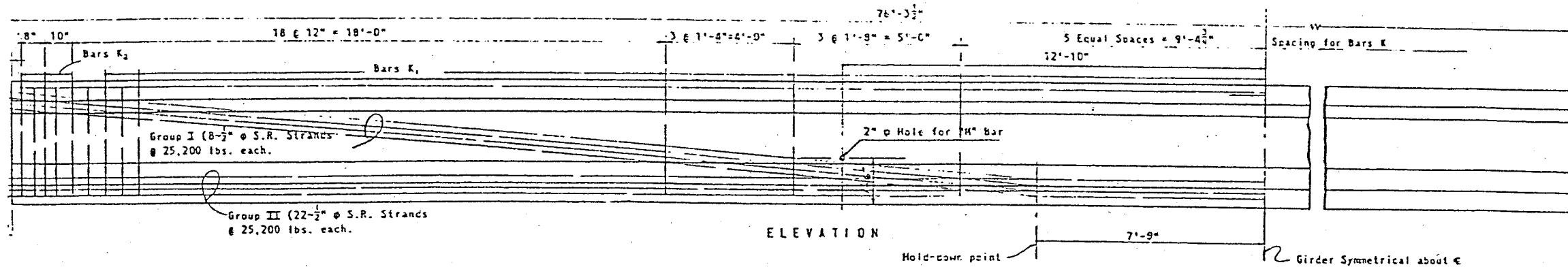
DETAIL AT END OF BEAM

SECTION AT SPAN

TYPE II ALTERNATE WITH POST-TENSIONED CABLES

PRESTRESSED BEAMS (TYPE II 16-8) SPANS NO. 1 & 3			
STATE ROAD DEPARTMENT OF FLORIDA BRIDGE DIVISION			
STRUCTURE "N"			
REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
Date	Description	HILLSBOROUGH	10190-3417
APPROVED BY		Date	
Detailed by R.C.M.		12-60	
Checked by H.L.F.		12-60	
Quantity by			
Checked by			

FED. ROAD DIST. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	FLA.	10150-3417	61	83

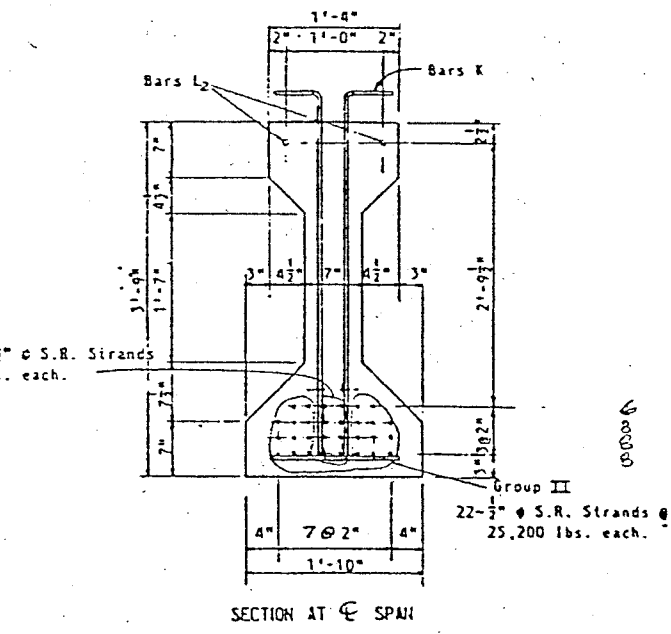
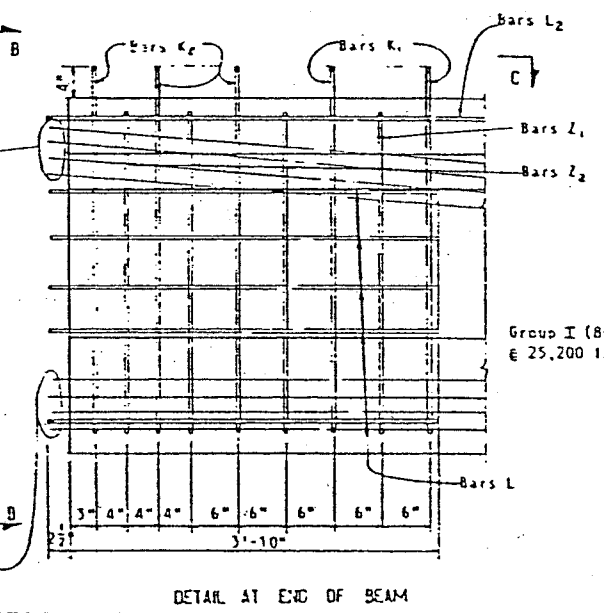
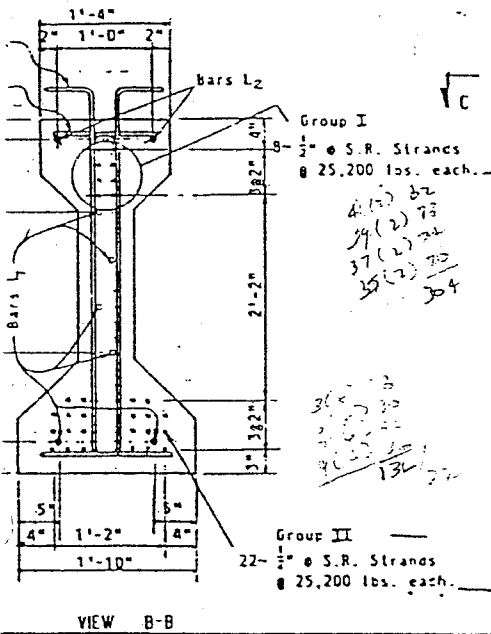
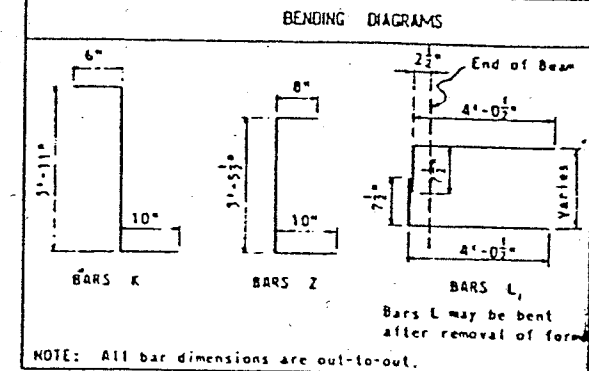
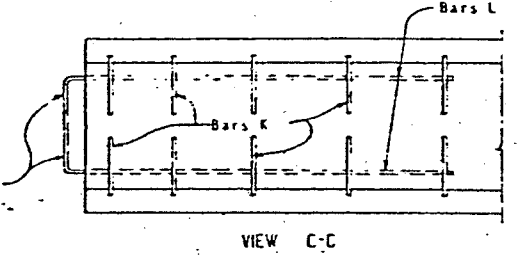


BILL OF REINFORCING STEEL FOR ONE BEAM

MARK	SIZE	NO. REQ'D.	LENGTH
K ₁	4	114	5'-3"
K ₂	5	12	5'-3"
L ₁	4	12	4'-8"
L ₂	5	4	39'-9"
Z ₁	4	4	4'-11"
Z ₂	5	12	4'-11"

1/2" has been included in the lengths beams to compensate for Span Lengths on ice and elastic shortening.

NOTE: Bars L may be bent after removal of forms.



GENERAL NOTES

SHOP DRAWINGS: Contractor shall submit Shop Drawings showing complete details of Beams including Reinforcing Steel.

FORMS & PALLETS: All Beams shall be cast on Concrete floored pallets and in metal forms.

FINISH: Tops of Beams to be rough floated. At approximately the time of initial set, entire top of beam shall be scrubbed transversely with coarse wire brush to remove all laitance and to produce a roughened surface for bonding slab.

CONCRETE: Concrete for Beams shall be Class P.

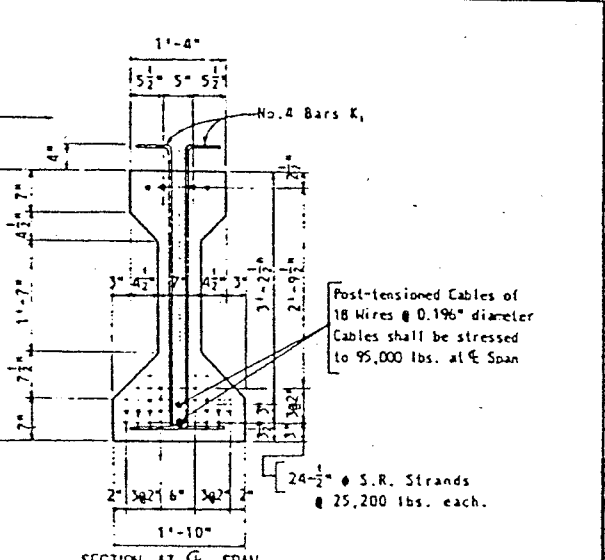
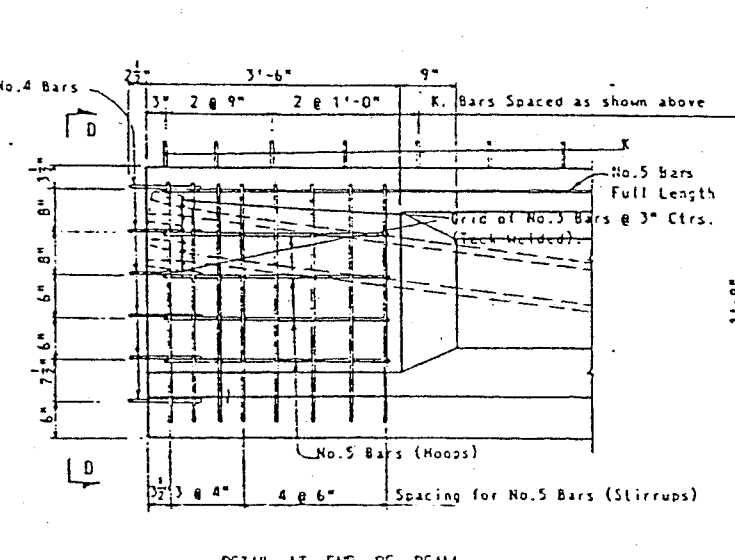
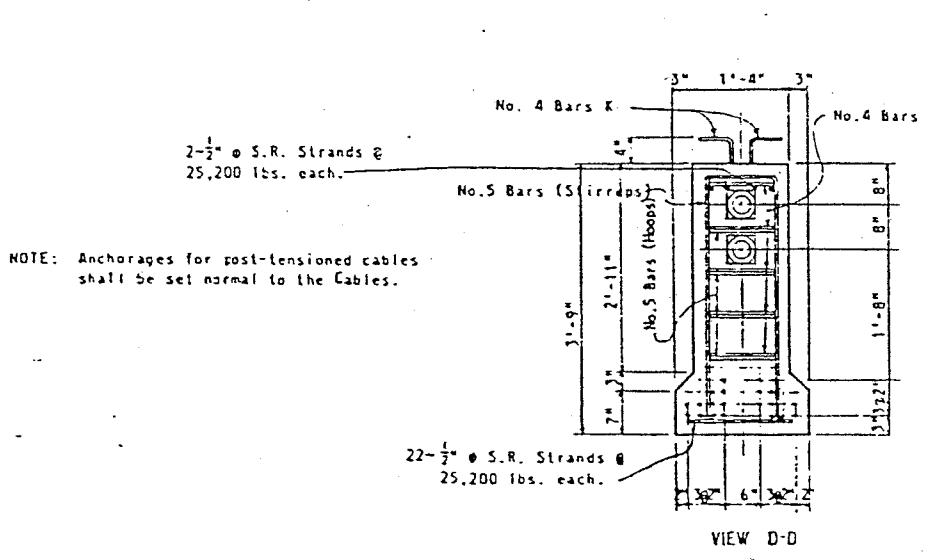
CYLINDER STRENGTH: At transfer of the tensioning load, the cylinder strength of concrete shall be 4000 p.s.i.

EXTENSIONS: All strands and wires shall extend 2 1/2" beyond ends of beam.

HANDLING: In the handling of beams, they must be maintained in an upright position at all times and must be picked up from points located a maximum distance of 3'-6" from the ends of the beam.

GROUTING: All Post-tensioned reinforcement shall be grouted after stressing. See Art. 401.9 of the Specifications.

24
40
54
54



PRESTRESSED BEAMS (TYPE III 22-8) SPAN NO. 2

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

STRUCTURE "N"

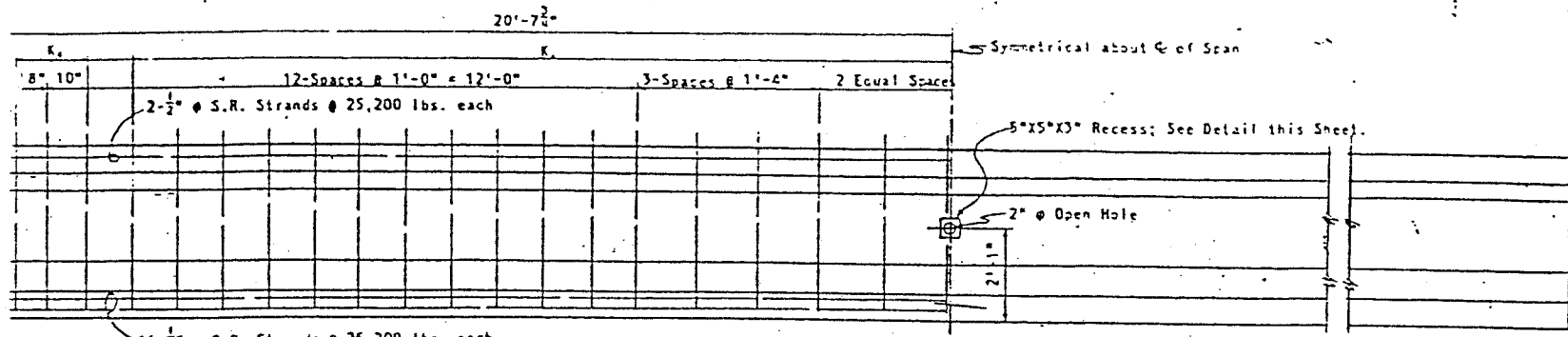
REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
		HILLSBOROUGH	10150-3417
Date: _____ Description: _____	Name: _____ Date: _____	APPROVED BY: <i>T.W. Janning</i>	
Checked by: _____ Date: _____	Checked by: _____ Date: _____	Drawing No. _____ Scale No. _____	

NOTE: Anchorages for post-tensioned cables shall be set normal to the Cables.

TYPE III ALTERNATE WITH POST-TENSIONED CABLES

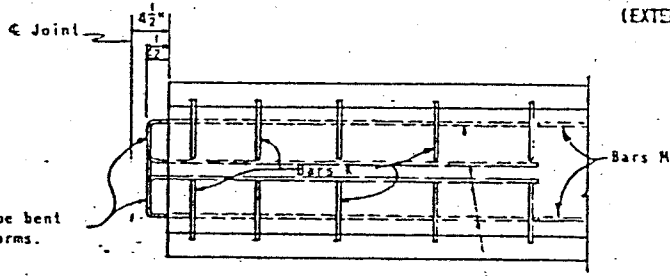
FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.	1-4-1 (34) 19	60	8-36

State Job No. 10190-3417



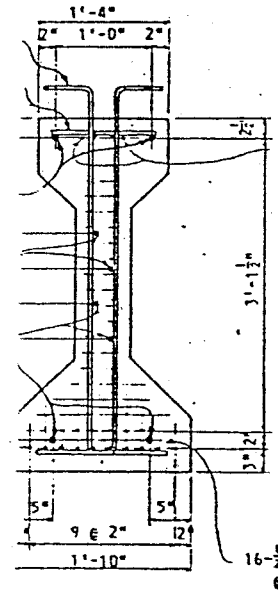
ELEVATION
(EXTERIOR BEAMS SPANS NO. 1 & 3)

1/2" has been included in the lengths of beams to compensate for span lengths on tie and elastic shortening.

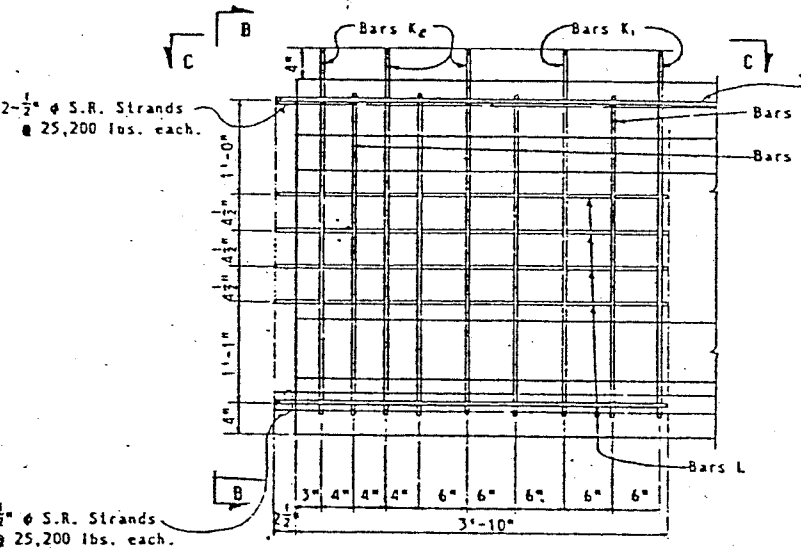


VIEW C-C

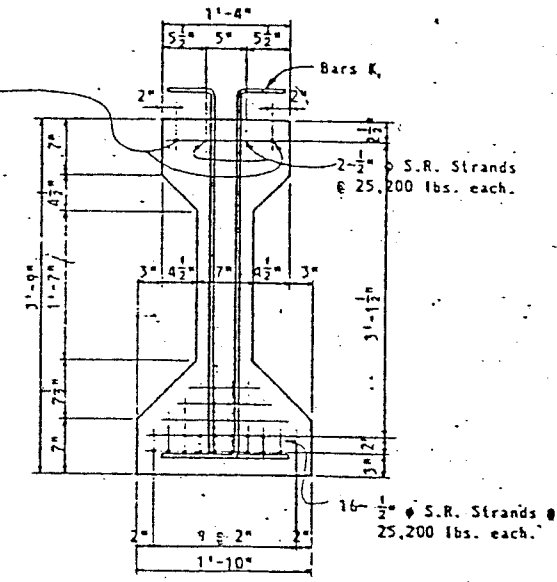
Note: Bars M and L may be bent after removal of forms.



VIEW B-B



DETAIL AT END OF BEAM

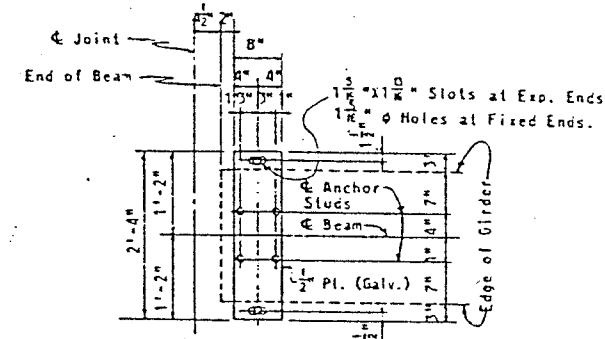
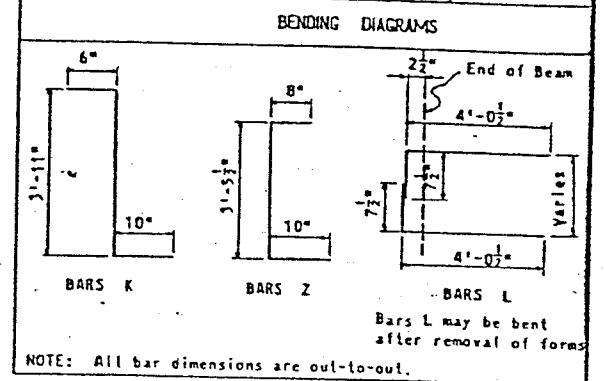


SECTION AT CENTER SPAN

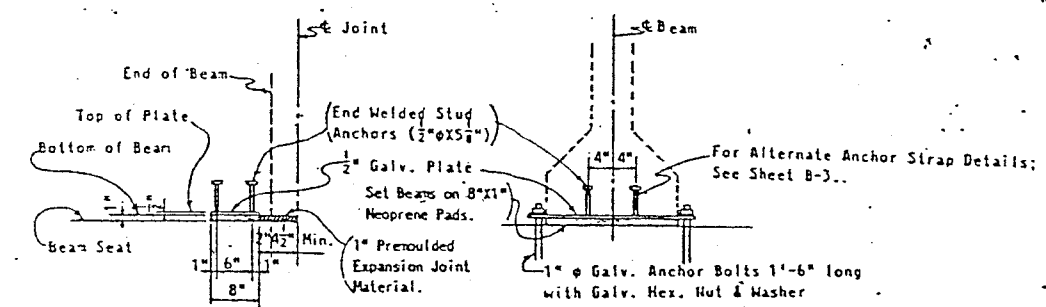
GENERAL NOTES
 SHOP DRAWINGS: Contractor shall submit Shop Drawings showing complete details of Beams including Reinforcing Steel.
 FORMS & PALLETS: All Beams shall be cast on Concrete floored pallets and in metal forms.
 FINISH: Tops of Beams to be rough floated. At approximately the time of initial set, entire top of beam shall be scrubbed transversely with coarse wire brush to remove all laitance and to produce a roughened surface for bonding slab.
 CONCRETE: Concrete for Beams shall be Class P.
 CYLINDER STRENGTH: At transfer of the tensioning load, the cylinder strength of concrete shall be 4000 p.s.i.
 STRAND EXTENSION: All strands shall extend 2 1/2" beyond ends of beam.
 HANDLING: In the handling of beams, they must be maintained in an upright position at all times and must be picked up from points located a maximum distance of 3'-6" from the ends of the beam.

BILL OF REINFORCING STEEL FOR ONE BEAM

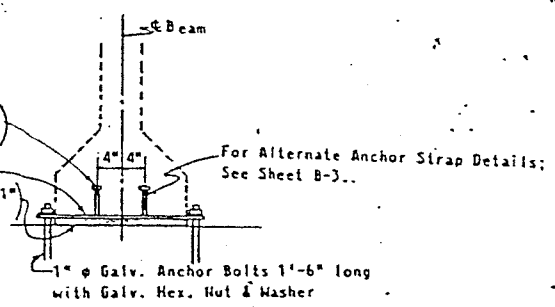
MARK	SIZE	NO. REQ'D.	LENGTH
K ₁	4	66	5'-3"
K ₂	5	12	5'-3"
L	4	12	4'-8"
M	4	2	42'-11"
Z ₁	4	4	4'-11"
Z ₂	5	12	4'-11"



PLAN OF BEARING

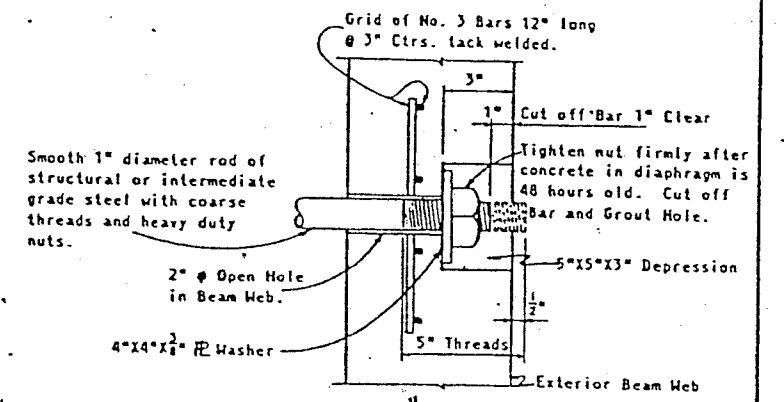


SIDE ELEVATION
(Looking Along Center Joint)



END ELEVATION
(Looking Along Beam)

BEAM BEARING DETAILS



DETAIL OF INTERMEDIATE DIAPHRAGM BAR AT EXTERIOR BEAM

PRESTRESSED BEAMS (TYPE III-18-0) 42 FT. SPAN

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

STRUCTURE "N"

REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
Date	Description	HILLSBOROUGH	10190-3417
	Designed by	Checked by	Quantity by
	C.W.D.	H.L.F.	
	Date	APPROVED BY	
	12-60	<i>[Signature]</i>	