

**TAMPA-HILLSBOROUGH COUNTY
EXPRESSWAY AUTHORITY**

Addendum No. 1

FOR

Request for Proposals (RFP)

ITS Fiber Data Collection & Characterization

RFP O-02121

Addendum No. 1 ~ RFP O-02121

Date of Addendum: **01/11/22**

Please note the following revisions to this procurement as **highlighted** below:

1. **Schedule of Events:**

Date	Event
Friday, December 17, 2021	Advertisement
Tuesday, January 4, 2022	Non-mandatory in Person & Virtual Pre-proposal meeting, at 9:00 AM local time at the THEA office, 1104 East Twiggs Street Suite 300, Tampa, FL 33602. For Virtual Meeting details, please send an email request to Man.Le@tampa-xway.com .
Monday, January 10, 2022	Deadline for Questions/Request for clarification
Friday, January 14, 2022	Addendum release (if required)
Tuesday, January 18, 2022	Phase 1 LOI Response Deadline by 2:00 PM local time
Wednesday, January 19, 2022 @ 8:30 a.m. Thursday, January 20, 2022	Evaluation Committee meets to evaluate LOI Firms are not required to attend. However, this meeting is open to the public and will be held at THEA 1104 E. Twiggs St., Motivational Conference Room 1st floor, Tampa, FL 33602.
Friday, January 21, 2022	Posting of Shortlist
Monday, January 31, 2022	Board approval of Shortlist
Tuesday, February 01, 2022	Posting of Notice of Board approval
Wednesday, February 02, 2022	Shortlist Contractors declare intent to proceed by 2:00 PM local time.
Friday, February 04, 2022	Deadline for submittal of questions, for which a response is assured, before the submission of the Technical and Price Proposal. All questions shall be submitted to Man Le, Contracts and Procurement Manager (Man.Le@tampa-xway.com).
Friday, February 11, 2022	Price Proposals & Technical Proposals due in Authority Office by 11:00 AM local time.
Friday, February 11, 2022	Public announcing of Price Proposals and confirmation of Technical Proposal Responsiveness at 1:30 PM local time at the THEAoffice, 1104 East Twiggs Street Suite 300, Tampa, FL 33602

Monday, February 21, 2022	Board approval of final ranking and award of contract
Tuesday, February 22, 2022	Posting of the Authority's intended decision to Award
Friday, February 25, 2022	Anticipated Award Date
Monday, February 28, 2022	Anticipated Execution Date
Monday, March 7, 2022	Anticipated Kick-Off Meeting

2. Section 2.6 Project Limits

2.6 Project Limits

The items highlighted in **Section 2.3 Inventory Items** within the following roadway corridors or as specified in the referenced documents. THEA owns and maintains 125.864 lane miles across the following facilities, but is not inclusive of all THEA owned, maintained, and operated ITS devices and fiber characteristics.

- Selmon Expressway
- Selmon West Extension
- Brandon Parkway
- Meridian Avenue
- Selmon Greenway
- Reversible Lanes

3. Reversible Express Lanes ~ ITS Design & Integration Plan

See Attached.

4. Technical Proposal Requirements (page 22 of 24 RFP O-02121)

VII. Technical Proposal Requirements:

A. General:

Shortlisted teams will proceed to the next step in the process which includes preparation and submittal of a Price Proposal, Proposal Plans, and Form 700-010-21 Low Bid Design-Build Technical Proposal as described in VII.B.

B. Submittal Requirements:

The Technical Proposal submittal shall consist of FDOT Form 700-010-21 Low Bid Design-Build Technical Proposal.

The maximum number of pages shall be **five (5)** ~~two (2)~~, single-sided, typed pages including text, graphics, tables, charts, and photographs. Double-sided 8½" x 11" sheets will be counted as 2 pages. Larger sheets are prohibited.

Respondents MUST acknowledge receipt of this Addendum/Letter of Clarification by signing, dating and returning the completed Acknowledgement of Receipt of Letter of Clarification/ Addendum form **with the Respondent's bid package**.

All other items, conditions, and specifications in the procurement document not specifically changed by the Letter of Clarification/ Addendum remain unchanged.

Please send all questions to THEA's Procurement Manager, Man Le, via email at Man.Le@tampa-xway.com.

ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM and/or LETTER OF CLARIFICATION

Were Addenda issued on this Solicitation?

Yes

No

Were Letter of Clarification issued on this Solicitation?

Yes

No

I (We) hereby acknowledge receipt of the following Addendum/Addenda issued in reference to this solicitation by listing the Addenda by number, date and signing the form:

Addendum _____ Date: _____

Addendum _____ Date: _____

Letter of Clarification _____ Date: _____

Letter of Clarification _____ Date: _____

BIDDER:

By: _____

Authorized Signature

Printed Name of Signer

Title of Signer

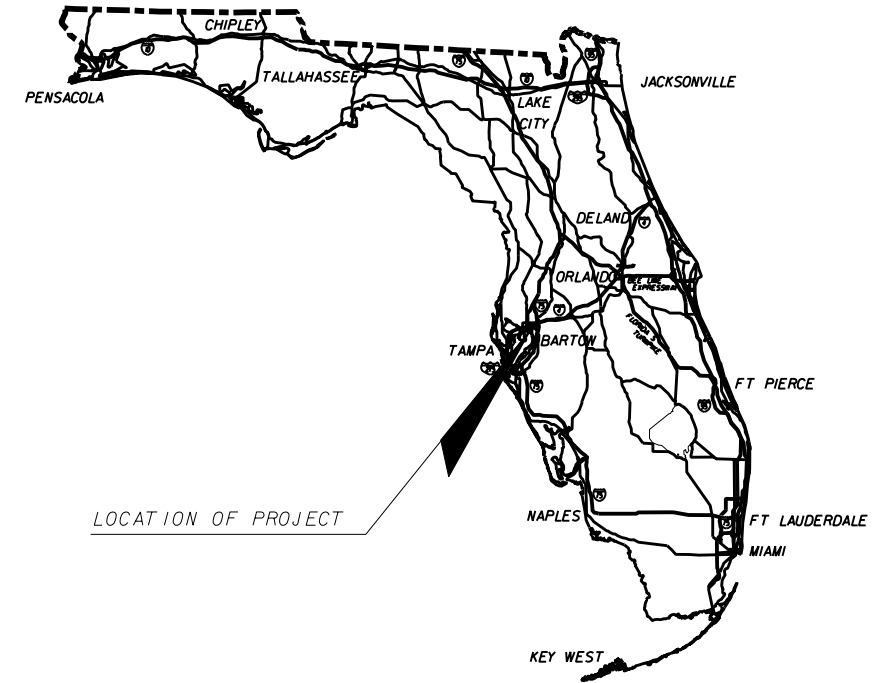
Date Signed

[END OF ACKNOWLEDGMENT OF RECEIPT FORM]

**TAMPA - HILLSBOROUGH
EXPRESSWAY AUTHORITY
CONTRACT PLANS**

CONSTRUCTION PROJECT NO. 53.41.01
DESIGN PROJECT NO. 53.31.01
HILLSBOROUGH COUNTY
LEE ROY SELMON CROSSTOWN EXPRESSWAY
STATE ROAD NO. 618

**REVERSIBLE EXPRESS LANE
ITS DESIGN & INTEGRATION PLANS**



INDEX OF REVERSIBLE EXPRESS LANE ITS DESIGN & INTEGRATION PLANS

SHEET NO.	SHEET DESCRIPTION
1-1	KEY SHEET
1-2A-2G	TABULATION SHEETS
1-3	GENERAL NOTES
1-4	SYSTEM PLAN LEGEND
1-5 THRU 1-68	INTELLIGENT TRANSPORTATION SYSTEM PLAN
D-1	TYPICAL DETAILS-INSIDE BRIDGE CABINET WITH TRANSFORMER
D-2	TYPICAL DETAILS-POLE AND GROUND MOUNT CABINET AND FOUNDATION
D-3	TYPICAL DETAILS-CONDUIT AND PULL BOX INSTALLATION IN BARRIER
D-4	TYPICAL DETAILS-DEVICE MOUNTING HEIGHTS AND MOUNTING BRACKETS
D-5	TYPICAL DETAILS-GENERATOR FOUNDATION AND LAYOUT/ACN FOUNDATIONS
D-6	TYPICAL DETAILS-GATE AND FOUNDATION
D-7	TYPICAL DETAILS-TRANSIENT VOLTAGE SURGE SUPPRESSION
D-8	TYPICAL DETAILS-FIBER OPTIC PULL BOX DETAILS
D-9	TYPICAL DETAILS-GROUNDING
D-10	TYPICAL DETAILS-DROP FIBER ALLOCATION AND ITS DEVICE SPLICE
D-11	TYPICAL DETAILS-TRUNK FIBER ALLOCATION AND ACN SPLICE
D-12	TYPICAL DETAILS-FIBER OPTIC NETWORK SCHEMATIC
D-13	TYPICAL DETAILS-DOWNTOWN ACN CIRCUITS
D-14	TYPICAL DETAILS-34TH STREET ACN CIRCUITS
D-15	TYPICAL DETAILS-78TH STREET ACN CIRCUITS
D-16	TYPICAL DETAILS-HIGHWAY 301 ACN CIRCUITS
D-17	TYPICAL DETAILS-BRANDON ACN CIRCUITS
V-1 THRU V-31	VMS/CMS DESIGN WORK SHEETS
ATTACHMENT	DRAGNET DETAILS
S-1 THRU S-10	STRUCTURAL DESIGN SHEETS
E-1 THRU E-5	ELECTRICAL DESIGN SHEETS
M-1 THRU M-11	MECHANICAL DESIGN SHEETS



PLANS PREPARED BY:

HNTB HNTB COMPANIES
5110 EISENHOWER BOULEVARD
SUITE 220
TAMPA, FL 33634

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

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY 2004, AND
STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 2004,
AS AMENDED BY CONTRACT DOCUMENTS.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E.

P.E. NO.: 33770

SHEET NO.


THEA PROJECT MANAGER : MARTY STONE

TABULATION OF QUANTITIES

FORM 625-000-02
ROADWAY DESIGN 01-2000

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET		
			1-5		1-6		1-7		1-8		1-9		1-10		1-11		1-12		1-13		1-14		PLAN	FINAL		PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
	MOBILIZATION	LS																									
	MAINTENANCE OF TRAFFIC	LS																									
	POWER DISTRIBUTION PANEL (PDP)	AS						1																1			
	ACN CABINET ASSEMBLY (INSTALL ONLY)	AS						1																1			
	DRAGNET ASSEMBLY	AS						1																1			
	GATE ASSEMBLY (240V)	AS																									
	GATE ASSEMBLY (277V)	AS						4																	4		
	CMS SIGN PANEL ASSEMBLY	EA	1		2		2												1						6		
	VMS SIGN PANEL ASSEMBLY	EA			1		2				1														4		
	CCTV CAMERA ASSEMBLY	EA	1		1		2		1					1					1						7		
	RTMS DETECTOR ASSEMBLY	EA																							1		
	CABLE (FIBER OPTIC) 12 STR, SM, DROP CABLE ASSEMBLY	LF	1				3		1										1						7		
	CABLE (FIBER OPTIC) 12 STR, SM	LF			530		1620																		2150		
	CABLE (FIBER OPTIC) 96 STR, SM	LF					800		1070			1110							1110		1115		1120		1190	8620	
	CABLE (FIBER OPTIC) 24 STR, MM	LF																									
	SIGN COMMANDS CABLE	LF	320		1080		1585																900		1190	5075	
	SIGN MONITORING CABLE	LF	320		1450		5170																900		1190	9030	
	GATE CABLE	LF					1210																			1210	
	DRAGNET CABLE	LF					415																			415	
	DATA CABLE	LF			1500		745		320		740															3305	
	CAMERA CABLE	LF	70		35		70		160						95							100				530	
	DETECTOR CABLE	LF													95											95	
	SIGNAL COMMUNICATION CABLE	LF					830																			830	
	AUTO SCOPE SOLO PRO 11 CABLE	LF																									
	PULL AND JUNCTION BOXES (PULL BOX)	EA	2		4		6																			12	
	PULL AND JUNCTION BOXES (MOUNTED JUNCTION BOX)	EA																								3	
	PULL AND JUNCTION BOXES (FIBER OPTIC)	EA	2				3																			5	
	PULL AND JUNCTION BOXES (MOUNTED FIBER OPTICS)	EA																									
	FIBER OPTIC SPLICE ENCLOSURE	EA					4		1						1											7	
	COMM CABINET (GROUND MOUNTED) INSTALL ONLY	AS	1																							1	
	COMM CABINET (SERVICE POLE MOUNTED) INSTALL ONLY	AS			1																					1	
	COMM CABINET (LUMINAIRE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (DECORATIVE POLE MOUNTED) INSTALL ONLY	AS					2																			2	
	COMM CABINET (BRIDGE MOUNTED) INSTALL ONLY	AS							1										1							3	
	COMM CABINET (SIGN MOUNTED) INSTALL ONLY	AS	1		3		3				1															9	
	TVSS PROTECTION SYSTEM (FURNISH AND INSTALL)	EA	1		1		2		1						2											8	
	CONCRETE SERVICE POLES (TYPE IV, 40')	EA																									
	DECORATIVE STEEL POLE	EA			1		2																			3	
	LUMINAIRE POLE	EA							1						1											3	
	GENERATOR ASSEMBLY (15KW, 12, 120/240V)	AS																									
	CONDUIT (ABOVE GROUND) (2")	LF																									
	CONDUIT (UNDER GROUND) (2")	LF	490		2550		1860					110														5010	
	CONDUIT (BRIDGE MOUNT) (2")	LF							135				120													1275	
	CONDUIT (ABOVE GROUND) (4")	LF																									
	CONDUIT (UNDER GROUND) (4")	LF					4950																			4950	
	CONDUIT (BRIDGE MOUNT) (4")	LF																									
	DIRECTIONAL BORE (LESS THAN 6")	LF	100		150																					250	
	CABLE (POWER) #2 COPPER	LF			1500		400					480														2380	
	CABLE (POWER) #4 COPPER	LF					4830																	1050		9450	
	CABLE (POWER) #6 COPPER	LF			3075		6615																	2700		15960	
	CABLE (POWER) #8 COPPER	LF	1440				3690								180											5310	
	CABLE (POWER) #10 COPPER	LF	810		825		900		960		570													4080		8145	
	CABLE (POWER) #1/0 COPPER	LF																									
	CABLE (POWER) #2/0 COPPER	LF																									
	CABLE (POWER) #3/0 COPPER	LF																									
	MPZ 5540F 5KVA TRANSFORMER	EA	1		1		1		1						1											6	
	MPZ 10S40F 10KVA TRANSFORMER	EA					1																			1	
	MPZ 25S40F 25KVA TRANSFORMER	EA					1						1													2	
	POWER SERVICE PEDESTAL ASSEMBLY	AS			2																					2	
	FUSE DISCONNECT SWITCH	EA																								1	
	ACN INTERFACE PANEL ASSEMBLY	AS					1																			1	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
18131 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

TABULATION OF QUANTITIES


SHEET NO.
I-2A

TABULATION OF QUANTITIES

FORM 625-000-02
ROADWAY DESIGN 01-2000

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			1-15		1-16		1-17		1-18		1-19		1-20		1-21		1-22		1-23		1-24		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
	MOBILIZATION	LS																									
	MAINTENANCE OF TRAFFIC	LS																									
	POWER DISTRIBUTION PANEL (PDP)	AS					1																		1		
	ACN CABINET ASSEMBLY	AS					1																		1		
	DRAGNET ASSEMBLY	AS			1																				1		
	GATE ASSEMBLY (240V)	AS	2		2		3																		7		
	GATE ASSEMBLY (277V)	AS																									
	CMS SIGN PANEL ASSEMBLY	EA	1																						1		
	VMS SIGN PANEL ASSEMBLY	EA			1																				1		
	CCTV CAMERA ASSEMBLY	EA	1				1									1									3		
	RTMS DETECTOR ASSEMBLY	EA					1																		1		
	CABLE (FIBER OPTIC) 12 STR, SM, DROP CABLE ASSEMBLY	LF	1				2									1									4		
	CABLE (FIBER OPTIC) 12 STR, SM	LF																									
	CABLE (FIBER OPTIC) 96 STR, SM	LF	1460		1090		1160		1230		1090		1105		1105		1120		1105		1105				11570		
	CABLE (FIBER OPTIC) 24 STR, MM	LF																									
	SIGN COMMANDS CABLE	LF	1765		1555		395																		3715		
	SIGN MONITORING CABLE	LF	1965		2895		1185																		6045		
	GATE CABLE	LF	1580		4300		2465																		8345		
	DRAGNET CABLE	LF			385		395																		780		
	DATA CABLE	LF	855		1470																				2325		
	CAMERA CABLE	LF	35				35									140									210		
	DETECTOR CABLE	LF					35																		35		
	SIGNAL COMMUNICATION CABLE	LF																									
	AUTO SCOPE SOLO PRO II CABLE	LF																									
	PULL AND JUNCTION BOXES (PULL BOX)	EA	1				4		2																7		
	PULL AND JUNCTION BOXES (MOUNTED JUNCTION BOX)	EA																									
	PULL AND JUNCTION BOXES (FIBER OPTIC)	EA	1				1																		2		
	PULL AND JUNCTION BOXES (MOUNTED FIBER OPTICS)	EA																									
	FIBER OPTIC SPLICE ENCLOSURE	EA	1		1											1									3		
	COMM CABINET (GROUND MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (SERVICE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (LUMINAIRE POLE MOUNTED) INSTALL ONLY	AS	1				1																		2		
	COMM CABINET (DECORATIVE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (BRIDGE MOUNTED) INSTALL ONLY	AS														1									1		
	COMM CABINET (SIGN MOUNTED) INSTALL ONLY	AS	1		1																				2		
	TVSS PROTECTION SYSTEM (FURNISH AND INSTALL)	EA	1				2									1									3		
	CONCRETE SERVICE POLES (TYPE IV, 40')	EA																									
	DECORATIVE STEEL POLE	EA																									
	LUMINAIRE POLE	EA	1				1									1									3		
	GENERATOR ASSEMBLY (15KW, 12, 120/240V)	EA					1																		1		
	CONDUIT (ABOVE GROUND) (2")	LF																									
	CONDUIT (UNDER GROUND) (2")	LF	800				1630		570																3000		
	CONDUIT (BRIDGE MOUNT) (2")	LF															375								375		
	CONDUIT (ABOVE GROUND) (4")	LF																									
	CONDUIT (UNDER GROUND) (4")	LF																									
	CONDUIT (BRIDGE MOUNT) (4")	LF																									
	DIRECTIONAL BORE (LESS THAN 6")	LF																									
	CABLE (POWER) #2 COPPER	LF					2480		2280																4760		
	CABLE (POWER) #4 COPPER	LF	6405		9990		7050																		23445		
	CABLE (POWER) #6 COPPER	LF	6810		8745		5415																		20970		
	CABLE (POWER) #8 COPPER	LF																									
	CABLE (POWER) #10 COPPER	LF	1680		300		930									1035								3945			
	CABLE (POWER) #1/0 COPPER	LF																									
	CABLE (POWER) #2/0 COPPER	LF																									
	CABLE (POWER) #3/0 COPPER	LF																									
	MPZ 5S40F 5KVA TRANSFORMER	EA	1				1									1									3		
	MPZ 10S40F 10KVA TRANSFORMER	EA																									
	MPZ 25S40F 25KVA TRANSFORMER	EA			1																				1		
	POWER SERVICE PEDESTAL ASSEMBLY	AS							1																1		
	FUSE DISCONNECT SWITCH	EA	1																						1		
	ACN INTERFACE PANEL ASSEMBLY	AS																									

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

			TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			TABULATION OF QUANTITIES	SHEET NO. I-2B
ROAD NO.		COUNTY		FINANCIAL PROJECT ID			
S.R. 618		HILLSBOROUGH		53.41.01			

TABULATION OF QUANTITIES

FORM 625-000-02
ROADWAY DESIGN 01-2000

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			1-25		1-26		1-27		1-28		1-29		1-30		1-31		1-32		1-33		1-34		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	
	MOBILIZATION	LS																									
	MAINTENANCE OF TRAFFIC	LS																									
	POWER DISTRIBUTION PANEL (PDP)	AS																									
	ACN CABINET ASSEMBLY	AS																									
	DRAGNET ASSEMBLY	AS																									
	GATE ASSEMBLY (240V)	AS																									
	GATE ASSEMBLY (277V)	AS																									
	CMS SIGN PANEL ASSEMBLY	EA																									
	VMS SIGN PANEL ASSEMBLY	EA																									
	CCTV CAMERA ASSEMBLY	EA	1							1						1									3		
	RTMS DETECTOR ASSEMBLY	EA	1													1									2		
	CABLE (FIBER OPTIC) 12 STR, SM, DROP CABLE ASSEMBLY	LF	1							1						1									3		
	CABLE (FIBER OPTIC) 12 STR, SM	LF																									
	CABLE (FIBER OPTIC) 96 STR, SM	LF	1125		1105					1110			1110			1090		1110		1105		1105		830	1220	10910	
	CABLE (FIBER OPTIC) 24 STR, MM	LF													1150		1110		1105		1105		830	910	6210		
	SIGN COMMANDS CABLE	LF																									
	SIGN MONITORING CABLE	LF																									
	GATE CABLE	LF																					250		250		
	DRAGNET CABLE	LF																									
	DATA CABLE	LF																									
	CAMERA CABLE	LF	95								140							140							375		
	DETECTOR CABLE	LF	95															140							235		
	SIGNAL COMMUNICATION CABLE	LF																									
	AUTO SCOPE SOLO PRO II CABLE	LF																					140		140		
	PULL AND JUNCTION BOXES (PULL BOX)	EA																					2		2		
	PULL AND JUNCTION BOXES (MOUNTED JUNCTION BOX)	EA	1									1						1							3		
	PULL AND JUNCTION BOXES (FIBER OPTIC)	EA																					1		1		
	PULL AND JUNCTION BOXES (MOUNTED FIBER OPTICS)	EA																							1		
	FIBER OPTIC SPLICE ENCLOSURE	EA	1																				1		4		
	COMM CABINET (GROUND MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (SERVICE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (LUMINAIRE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (DECORATIVE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (BRIDGE MOUNTED) INSTALL ONLY	AS	1																						3		
	COMM CABINET (SIGN MOUNTED) INSTALL ONLY	AS																									
	TVSS PROTECTION SYSTEM (FURNISH AND INSTALL)	EA	2																						5		
	CONCRETE SERVICE POLES (TYPE IV, 40')	EA																									
	DECORATIVE STEEL POLE	EA																									
	LUMINAIRE POLE	EA	1																						3		
	GENERATOR ASSEMBLY (15KW, 120/240V)	EA																									
	CONDUIT (ABOVE GROUND) (2")	LF																									
	CONDUIT (UNDER GROUND) (2")	LF																					280		280		
	CONDUIT (BRIDGE MOUNT) (2")	LF	140																						570		
	CONDUIT (ABOVE GROUND) (4")	LF																									
	CONDUIT (UNDER GROUND) (4")	LF																									
	CONDUIT (BRIDGE MOUNT) (4")	LF																									
	DIRECTIONAL BORE (LESS THAN 6")	LF																									
	CABLE (POWER) #2 COPPER	LF																						600	600		
	CABLE (POWER) #4 COPPER	LF																									
	CABLE (POWER) #6 COPPER	LF																									
	CABLE (POWER) #8 COPPER	LF	210																						450		
	CABLE (POWER) #10 COPPER	LF																							420		
	CABLE (POWER) #1/0 COPPER	LF																									
	CABLE (POWER) #2/0 COPPER	LF																									
	CABLE (POWER) #3/0 COPPER	LF																									
	MPZ 5540F 5KVA TRANSFORMER	EA	1																						3		
	MPZ 10540F 10KVA TRANSFORMER	EA																									
	MPZ 25540F 25KVA TRANSFORMER	EA																									
	POWER SERVICE PEDESTAL ASSEMBLY	AS																									
	FUSE DISCONNECT SWITCH	EA																									
	ACN INTERFACE PANEL ASSEMBLY	AS																									

REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES 510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634 (813) 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6885 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			TABULATION OF QUANTITIES			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID				I-2C
							S.R. 618	HILLSBOROUGH	53.41.01				

TABULATION OF QUANTITIES

FORM 625-000-02
ROADWAY DESIGN 01-2000

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			1-35		1-36		1-37		1-38		1-39		1-40		1-41		1-42		1-43		1-44		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
	MOBILIZATION	LS																									
	MAINTENANCE OF TRAFFIC	LS																									
	POWER DISTRIBUTION PANEL (PDP)	AS	1									1													2		
	ACN CABINET ASSEMBLY	AS	1									1													2		
	DRAGNET ASSEMBLY	AS	1									1													2		
	GATE ASSEMBLY (240V)	AS	3		2				1			3		2											11		
	GATE ASSEMBLY (277V)	AS																									
	CMS SIGN PANEL ASSEMBLY	EA			2				2																4		
	VMS SIGN PANEL ASSEMBLY	EA	1									1													2		
	CCTV CAMERA ASSEMBLY	EA	1		1				1			1								1					5		
	RTMS DETECTOR ASSEMBLY	EA							1											1					2		
	CABLE (FIBER OPTIC) 12 STR, SM, DROP CABLE ASSEMBLY	LF	2		1				1			2								1					7		
	CABLE (FIBER OPTIC) 12 STR, SM	LF																									
	CABLE (FIBER OPTIC) 96 STR, SM	LF	1210		1205			1370	1100			1095		1140		1150			1185		1125				11725		
	CABLE (FIBER OPTIC) 24 STR, MM	LF																									
	SIGN COMMANDS CABLE	LF	1225		720				730			1100													3775		
	SIGN MONITORING CABLE	LF	2055		1085				730			1150													5020		
	GATE CABLE	LF	3100		670				350			3090		445											7655		
	DRAGNET CABLE	LF	395									395													790		
	DATA CABLE	LF	1030									160													1190		
	CAMERA CABLE	LF	35		35				35			35										35			175		
	DETECTOR CABLE	LF							35													35			70		
	SIGNAL COMMUNICATION CABLE	LF																									
	AUTO SCOPE SOLO PRO II CABLE	LF																									
	PULL AND JUNCTION BOXES (PULL BOX)	EA			1				1			2									1				5		
	PULL AND JUNCTION BOXES (MOUNTED JUNCTION BOX)	EA																									
	PULL AND JUNCTION BOXES (FIBER OPTIC)	EA			1				1			1													3		
	PULL AND JUNCTION BOXES (MOUNTED FIBER OPTICS)	EA																									
	FIBER OPTIC SPLICE ENCLOSURE	EA	2		1							1				1					1				6		
	COMM CABINET (GROUND MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (SERVICE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (LUMINAIRE POLE MOUNTED) INSTALL ONLY	AS	1		1				1			1										1			5		
	COMM CABINET (DECORATIVE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (BRIDGE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (SIGN MOUNTED) INSTALL ONLY	AS	1		2				2			1													6		
	TVSS PROTECTION SYSTEM (FURNISH AND INSTALL)	EA	1		1				2			1									2				7		
	CONCRETE SERVICE POLES (TYPE IV, 40')	EA																									
	DECORATIVE STEEL POLE	EA																									
	LUMINAIRE POLE	EA	1		1				1			1									1				5		
	GENERATOR ASSEMBLY (15KW, 120, 120/240V)	EA			1							1													2		
	CONDUIT (ABOVE GROUND) (2")	LF																									
	CONDUIT (UNDER GROUND) (2")	LF	220		860				880			120				60						270			2410		
	CONDUIT (BRIDGE MOUNT) (2")	LF																									
	CONDUIT (ABOVE GROUND) (4")	LF																									
	CONDUIT (UNDER GROUND) (4")	LF	860		1575							600													3035		
	CONDUIT (BRIDGE MOUNT) (4")	LF																									
	DIRECTIONAL BORE (LESS THAN 6")	LF																									
	CABLE (POWER) #2 COPPER	LF	3255		8780				900			4625													17560		
	CABLE (POWER) #4 COPPER	LF										2745		1035											3780		
	CABLE (POWER) #6 COPPER	LF	1620		6780																				8400		
	CABLE (POWER) #8 COPPER	LF	3150		2310							60											2640		8160		
	CABLE (POWER) #10 COPPER	LF	450		3570				4200			4245		300											12765		
	CABLE (POWER) #1/0 COPPER	LF																									
	CABLE (POWER) #2/0 COPPER	LF																									
	CABLE (POWER) #3/0 COPPER	LF																									
	MPZ 5540F 5KVA TRANSFORMER	EA	1		1				2			1													5		
	MPZ 10540F 10KVA TRANSFORMER	EA																									
	MPZ 25540F 25KVA TRANSFORMER	EA	1									1													2		
	POWER SERVICE PEDESTAL ASSEMBLY	AS			1							1													2		
	FUSE DISCONNECT SWITCH	EA																									
	ACN INTERFACE PANEL ASSEMBLY	AS																									

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
18131 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

TABULATION OF QUANTITIES

9/16/2004 11:25:10 AM c:\my documents\reversible lane\final plans\1-02d.dgn

SHEET NO.

1-2D

TABULATION OF QUANTITIES

FORM 625-000-02
ROADWAY DESIGN 01-2000

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			1-45		1-46		1-47		1-48		1-49		1-50		1-51		1-52		1-53		1-54		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
	MOBILIZATION	LS																									
	MAINTENANCE OF TRAFFIC	LS																									
	POWER DISTRIBUTION PANEL (PDP)	AS												1										1			
	ACN CABINET ASSEMBLY	AS													1									1			
	DRAGNET ASSEMBLY	AS													1									1			
	GATE ASSEMBLY (240V)	AS												2		4								6			
	GATE ASSEMBLY (277V)	AS																									
	CMS SIGN PANEL ASSEMBLY	EA													1		2		1		1			5			
	VMS SIGN PANEL ASSEMBLY	EA													1									1			
	CCTV CAMERA ASSEMBLY	EA													2		1		1		1			5			
	RTMS DETECTOR ASSEMBLY	EA																									
	CABLE (FIBER OPTIC) 12 STR, SM, DROP CABLE ASSEMBLY	LF														3		1		1				5			
	CABLE (FIBER OPTIC) 12 STR, SM	LF													990							795		1785			
	CABLE (FIBER OPTIC) 96 STR, SM	LF	1200		990			1090		1130			1130		1060									6785			
	CABLE (FIBER OPTIC) 24 STR, MM	LF																									
	SIGN COMMANDS CABLE	LF														1745		1320		735		1135		4935			
	SIGN MONITORING CABLE	LF														11665		1375		2210		4820		20070			
	GATE CABLE	LF												375		2150								2525			
	DRAGNET CABLE	LF													150									100			
	DATA CABLE	LF													425									425			
	CAMERA CABLE	LF													70		35		35		35			175			
	DETECTOR CABLE	LF																									
	SIGNAL COMMUNICATION CABLE	LF														635								635			
	AUTO SCOPE SOLO PRO II CABLE	LF																									
	PULL AND JUNCTION BOXES (PULL BOX)	EA	1											4		2					1			8			
	PULL AND JUNCTION BOXES (MOUNTED JUNCTION BOX)	EA																									
	PULL AND JUNCTION BOXES (FIBER OPTIC)	EA																				1		1			
	PULL AND JUNCTION BOXES (MOUNTED FIBER OPTICS)	EA																									
	FIBER OPTIC SPLICE ENCLOSURE	EA														2								2			
	COMM CABINET (GROUND MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (SERVICE POLE MOUNTED) INSTALL ONLY	AS														1		1		1		1		4			
	COMM CABINET (LUMINAIRE POLE MOUNTED) INSTALL ONLY	AS														1								1			
	COMM CABINET (DECORATIVE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (BRIDGE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (SIGN MOUNTED) INSTALL ONLY	AS														3		2		1		1		7			
	TVSS PROTECTION SYSTEM (FURNISH AND INSTALL)	EA														2		1		1				5			
	CONCRETE SERVICE POLES (TYPE IV, 40')	EA														1		1		1		1		4			
	DECORATIVE STEEL POLE	EA																									
	LUMINAIRE POLE	EA															1							1			
	GENERATOR ASSEMBLY (15KW, 120/240V)	EA												1										1			
	CONDUIT (ABOVE GROUND) (2")	LF																									
	CONDUIT (UNDER GROUND) (2")	LF	850											1090		805		600		100		100		3545			
	CONDUIT (BRIDGE MOUNT) (2")	LF																									
	CONDUIT (ABOVE GROUND) (4")	LF																									
	CONDUIT (UNDER GROUND) (4")	LF																									
	CONDUIT (BRIDGE MOUNT) (4")	LF																									
	DIRECTIONAL BORE (LESS THAN 6")	LF																									
	CABLE (POWER) #2 COPPER	LF												3570		1710								5280			
	CABLE (POWER) #4 COPPER	LF														2565								2565			
	CABLE (POWER) #6 COPPER	LF												4740		4260						1440		10440			
	CABLE (POWER) #8 COPPER	LF	3870											7110		4980			465					16425			
	CABLE (POWER) #10 COPPER	LF												2670		4680		3000		1080		1275		12705			
	CABLE (POWER) #1/0 COPPER	LF																									
	CABLE (POWER) #2/0 COPPER	LF																									
	CABLE (POWER) #3/0 COPPER	LF																									
	MPZ 5S40F 5KVA TRANSFORMER	EA														1		1		1		1		4			
	MPZ 10S40F 10KVA TRANSFORMER	EA														1								1			
	MPZ 25S40F 25KVA TRANSFORMER	EA														1								1			
	POWER SERVICE PEDESTAL ASSEMBLY	AS	1											1				1						3			
	FUSE DISCONNECT SWITCH	EA																									
	ACN INTERFACE PANEL ASSEMBLY	AS															1							1			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
18131 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

<h2 style="margin: 0;">TABULATION OF QUANTITIES</h2>	<p>SHEET NO. 1-2E</p>
--	----------------------------------

TABULATION OF QUANTITIES

FORM 625-000-02
ROADWAY DESIGN 01-2000

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			1-55		1-56		1-57		1-58		1-59		1-60		1-61		1-62		1-63		1-64		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
	MOBILIZATION	LS																									
	MAINTENANCE OF TRAFFIC	LS																									
	POWER DISTRIBUTION PANEL (PDP)	AS																									
	ACN CABINET ASSEMBLY	AS																									
	DRAGNET ASSEMBLY	AS																									
	GATE ASSEMBLY (240V)	AS																									
	GATE ASSEMBLY (277V)	AS																									
	CMS SIGN PANEL ASSEMBLY	EA			1					1					2		1				1				6		
	VMS SIGN PANEL ASSEMBLY	EA																									
	CCTV CAMERA ASSEMBLY	EA																									
	RTMS DETECTOR ASSEMBLY	EA																									
	CABLE (FIBER OPTIC) 12 STR, SM, DROP CABLE ASSEMBLY	LF																									
	CABLE (FIBER OPTIC) 12 STR, SM	LF																									
	CABLE (FIBER OPTIC) 96 STR, SM	LF																									
	CABLE (FIBER OPTIC) 24 STR, MM	LF																									
	SIGN COMMANDS CABLE	LF	1560		1215			1100		1460		770			1440		1100				1165			9820			
	SIGN MONITORING CABLE	LF	3910		1315			1100		1460		770			2540		1100				1305			13510			
	GATE CABLE	LF																									
	DRAGNET CABLE	LF																									
	DATA CABLE	LF																									
	CAMERA CABLE	LF																									
	DETECTOR CABLE	LF																									
	AUTO SCOPE SOLO PRO II CABLE	LF																									
	PULL AND JUNCTION BOXES (PULL BOX)	EA											2											2			
	PULL AND JUNCTION BOXES (MOUNTED JUNCTION BOX)	EA																									
	PULL AND JUNCTION BOXES (FIBER OPTIC)	EA																									
	PULL AND JUNCTION BOXES (MOUNTED FIBER OPTICS)	EA																									
	FIBER OPTIC SPLICE ENCLOSURE	EA																									
	COMM CABINET (GROUND MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (SERVICE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (LUMINAIRE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (DECORATIVE POLE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (BRIDGE MOUNTED) INSTALL ONLY	AS																									
	COMM CABINET (SIGN MOUNTED) INSTALL ONLY	AS			1					1				2		1				1				6			
	TVSS PROTECTION SYSTEM (FURNISH AND INSTALL)	EA																									
	CONCRETE SERVICE POLES (TYPE IV, 40')	EA																									
	DECORATIVE STEEL POLE	EA																									
	LUMINAIRE POLE	EA																									
	GENERATOR ASSEMBLY (15KW, 12, 120/240V)	EA																									
	CONDUIT (ABOVE GROUND) (2")	LF																									
	CONDUIT (UNDER GROUND) (2")	LF											200		200									400			
	CONDUIT (BRIDGE MOUNT) (2")	LF																									
	CONDUIT (ABOVE GROUND) (4")	LF																									
	CONDUIT (UNDER GROUND) (4")	LF																									
	CONDUIT (BRIDGE MOUNT) (4")	LF																									
	DIRECTIONAL BORE (LESS THAN 6')	LF											75											75			
	CABLE (POWER) #2 COPPER	LF																									
	CABLE (POWER) #4 COPPER	LF																									
	CABLE (POWER) #6 COPPER	LF																									
	CABLE (POWER) #8 COPPER	LF																									
	CABLE (POWER) #10 COPPER	LF																									
	CABLE (POWER) #1/0 COPPER	LF																									
	CABLE (POWER) #2/0 COPPER	LF																									
	CABLE (POWER) #3/0 COPPER	LF																									
	MPZ 5540F 5KVA TRANSFORMER	EA																									
	MPZ 10S40F 10KVA TRANSFORMER	EA																									
	MPZ 25S40F 25KVA TRANSFORMER	EA																									
	POWER SERVICE PEDESTAL ASSEMBLY	AS																									
	FUSE DISCONNECT SWITCH	EA																									
	ACN INTERFACE PANEL ASSEMBLY	AS																									

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
18131 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

<p style="font-size: 12px; margin: 0;">TABULATION OF QUANTITIES</p>	<p style="font-size: 10px; margin: 0;">SHEET NO. I-2F</p>
--	--

GENERAL NOTES

ELECTRICAL

1. CONDUCTORS

3-#2 - DESIGNATES THE SIZE OF PRIMARY CONDUCTOR, e.g. THREE #2 WIRES
 3-#10S - DESIGNATES THE SIZE OF SECONDARY CONDUCTOR, e.g. THREE #10 WIRES

2. PROVIDE 15KW, 120/240V, 1Ø GENERATOR WITH WATERPROOF ENCLOSURE
3. PROVIDE STEP UP TRANSFORMER 25KVA, 240/480V-120/240V, 1Ø, NON-VENTILATED, NEMA-3R ENCLOSURE
4. PROVIDE 100A, 2POLE, 600V, NEMA-3R SERVICE RATED AUTOMATIC TRANSFER SWITCH
5. PROVIDE PANEL PDP, 240/480V, 1Ø, 3 WIRE, 100A, 24 CIRCUITS WITH NEMA-3R ENCLOSURE
6. NOTES 2-5 ARE TYPICAL FOR FOUR ACN STATIONS (34-A, 78-A, 301-A, & BRN-A)

INSTALLATION

1. INSIDE BRIDGE, CONTRACTORS SHALL INSTALL FIBER OPTIC CABLE ON THE SOUTH WALL OF THE BRIDGE, AND POWER CABLE ON THE NORTH WALL OF THE BRIDGE.
2. THE FIVE (5) ACN CABINET ASSEMBLIES WILL BE FURNISHED BY TRANSDYN AND INSTALLED BY THE CONTRACTOR.
3. THE COMMUNICATION CABINETS FOR THE CCTV CAMERAS AND THE RTMS DETECTORS WILL BE FURNISHED BY TRANSDYN AND INSTALLED BY THE CONTRACTOR.
4. THE TVSS CABINETS MOUNTED ON THE LUMINAIRE POLES FOR THE CCTV CAMERAS AND THE RTMS DETECTORS WILL BE FURNISHED BY TRANSDYN AND INSTALLED BY THE CONTRACTOR
5. THE COMMUNICATION CABINETS FOR THE GATES AND THE DRAGNET WILL BE FURNISHED BY TRANSDYN AND INSTALLED BY THE CONTRACTOR
6. THE EXISTING CONDUIT (---) SHOWN ON THE PLAN IS BEING INSTALLED BY OTHERS FOR USE BY THE CONTRACTOR
7. THE PROPOSED CONDUIT (—) SHOWN ON THE PLAN WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR
8. THE EXISTING JUNCTION BOXES 13"x24" (◻) AND 24"x24" (◻) SHOWN ON THE PLANS ARE BEING INSTALLED BY OTHERS FOR USE BY THE CONTRACTOR
9. THE PROPOSED PULL BOXES (◻) AND (◻) AND FIBER SPLICE BOXES (●) SHOWN ON THE PLANS WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR
10. INSTALL CCTV CAMERA COMMUNICATIONS CABINETS AS SHOWN ON THE PLAN SHEETS
11. INSTALL TVSS CABINETS ON THE CAMERA POLE AS SHOWN ON SHEET D-7
12. INSTALL ONE TVSS CABINET FOR EACH CCTV CAMERA AS SHOWN ON SHEET D-7
13. INSTALL ONE TVSS CABINET FOR EACH RTMS DETECTOR AS SHOWN ON SHEET D-7
14. CONTRACTOR TO DIRECTIONAL BORE ALL PROPOSED CONDUITS UNDER EXISTING PAVEMENT
15. 24 STRAND MULTI-MODE FIBER OPTIC CABLE SHALL BE TIGHT BUFFERED DISTRIBUTION FIBER OPTIC CABLE OFNR, OPTICAL CABLE CORPORATION P/N DX24-0650-W3EB/IUC/900-OFNR, ULTRA-FOX

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
 The HNTB COMPANIES
 510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770




















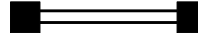
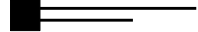



**TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY**


ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

GENERAL NOTES

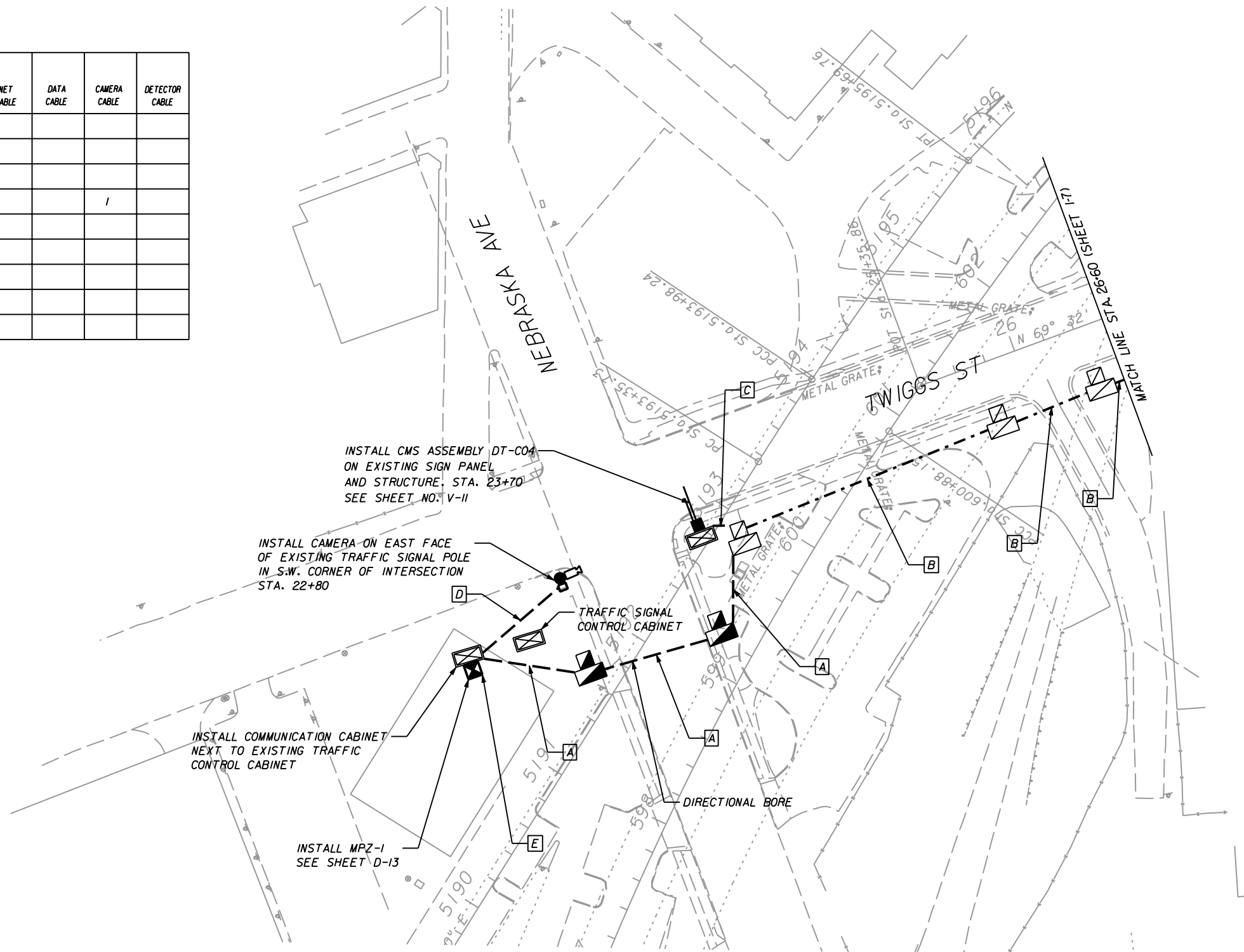
SHEET
NO.
I-3

SYSTEM PLAN LEGEND

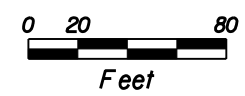
<u>SYMBOL</u>	<u>DESCRIPTION</u>
	CCTV - CLOSED CIRCUIT TELEVISION
	RTMS - REMOTE TRAFFIC MICROWAVE SENSOR
	CONTROLLER CABINET
	PROPOSED CONTROLLER CABINET FOR AUTOSCOPE SOLO PRO II
	POWER SERVICE PEDESTAL ASSEMBLY
	FIBER OPTIC SPLICE VAULT
	EXISTING PULL BOX (24"X24")
	FIBER OPTIC JUNCTION BOX (PROPOSED)
	EXISTING PULL BOX (13"X24")
	PULL BOX (PROPOSED)
	MINI-POWER ZONE PANEL WITH INTEGRAL TRANSFORMER
	LIGHTING LOAD CENTER
	MINI-POWER CENTER
	ACCESS CONTROL NODE
	POWER DISTRIBUTION PANEL
	GENERATOR
	EXISTING CONDUIT INSTALLED BY OTHERS
	PROPOSED CONDUIT INSTALLED BY CONTRACTOR
	GATE
	DRAGNET
	EXISTING SIGN STRUCTURE
	FUSE DISCONNECT SWITCH
	STEP UP TRANSFORMER (GENERATOR)
	AUTOMATIC TRANSFER SWITCH

REVISIONS						 ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			INTELLIGENT TRANSPORTATION SYSTEM PLAN (LEGEND)	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		I-4
							S.R. 618	HILLSBOROUGH	53.41.01		

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A	2-2"	3-#8 3-#10S	1								
B		3-#8	1		1	1					
C		3-#10S			1	1					
D	1-2"									1	
E		3-#10S									



NOTE:
1. SEE DETAIL SHEET D-13 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-5



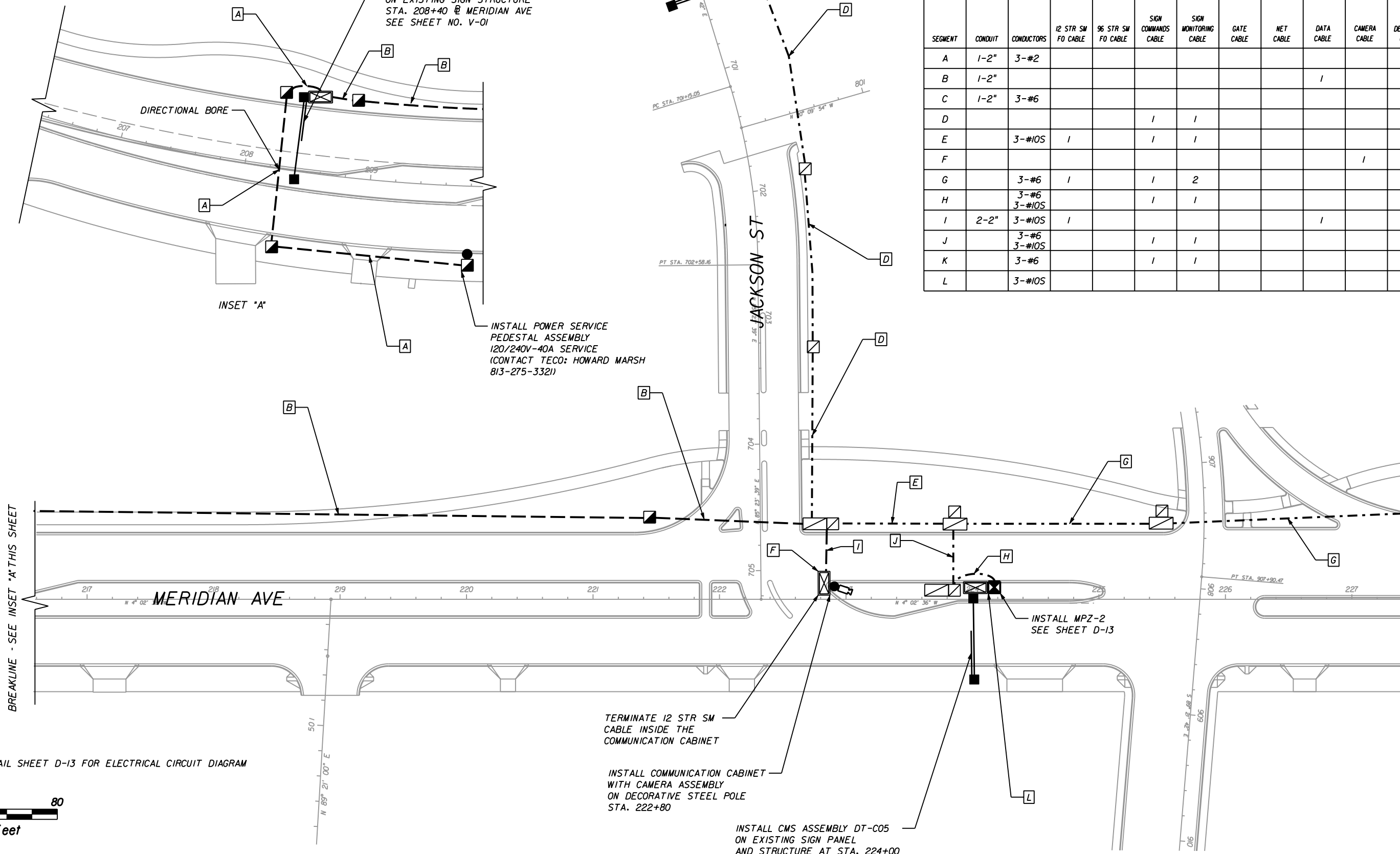
INSTALL CMS ASSEMBLY DT-N06
ON EXISTING SIGN PANEL
AND STRUCTURE STA. 700+40
SEE SHEET NO. V-13

INSTALL POWER SERVICE
PEDESTAL ASSEMBLY
120/240V-20A SERVICE
(CONTACT TECO: HOWARD MARSH
813-275-3321)

INSTALL VMS ASSEMBLY MER-V501
ON EXISTING SIGN STRUCTURE
STA. 208+40 @ MERIDIAN AVE
SEE SHEET NO. V-01

INSTALL POWER SERVICE
PEDESTAL ASSEMBLY
120/240V-40A SERVICE
(CONTACT TECO: HOWARD MARSH
813-275-3321)

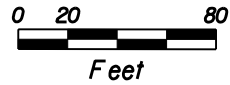
SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A	1-2"	3-#2									
B	1-2"								1		
C	1-2"	3-#6									
D					1	1					
E		3-#10S	1		1	1					
F										1	
G		3-#6	1		1	2					
H		3-#6 3-#10S			1	1					
I	2-2"	3-#10S	1						1		
J		3-#6 3-#10S			1	1					
K		3-#6			1	1					
L		3-#10S									



BREAKLINE - SEE INSET "A" THIS SHEET

MATCH LINE STA. 227+40 (SHEET 1-7)

NOTE:
1. SEE DETAIL SHEET D-13 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

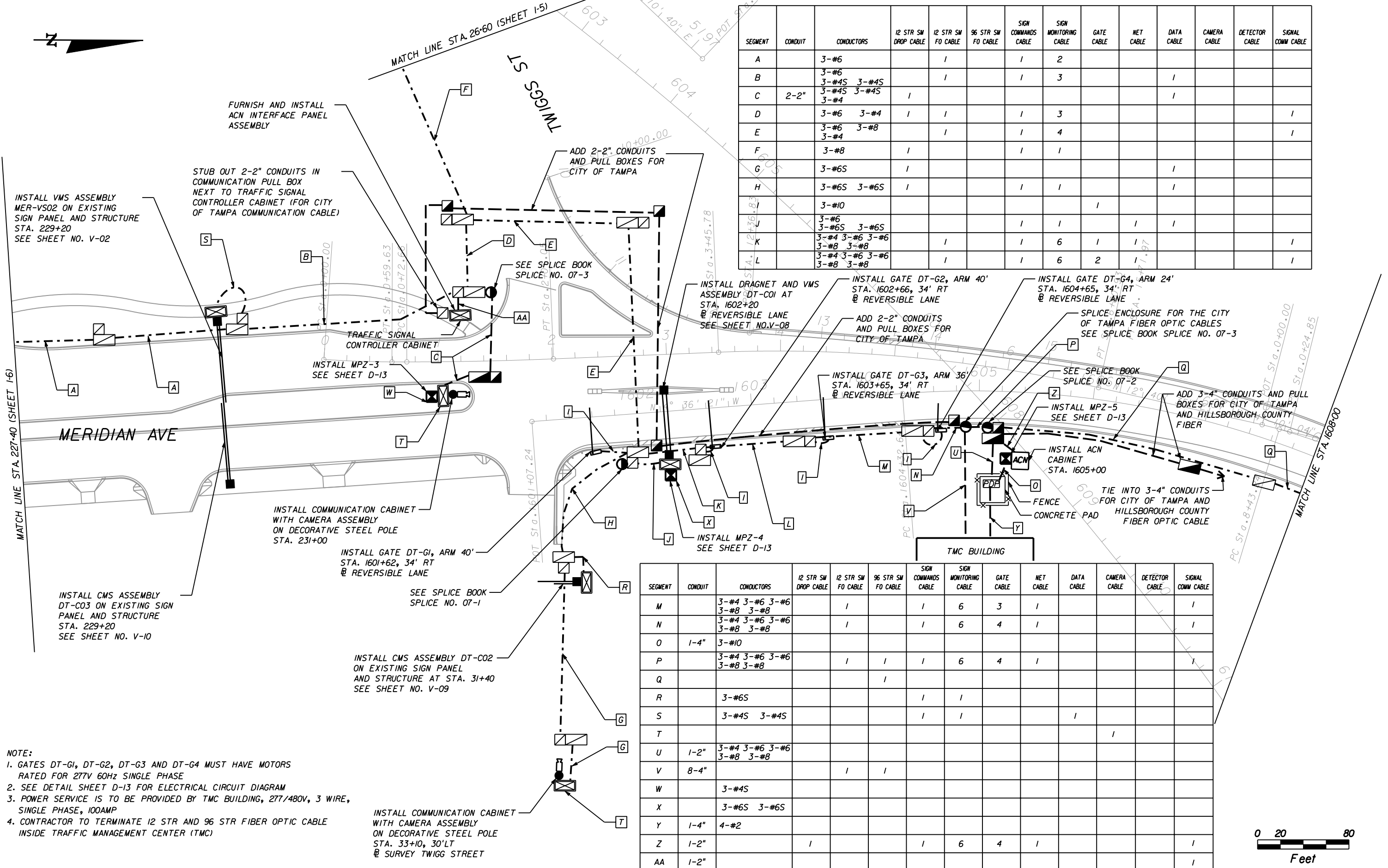
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

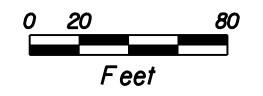
SHEET NO.
I-6



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	SIGNAL COMM CABLE
A		3-#6		1		1	2						
B		3-#6 3-#4S 3-#4S		1		1	3			1			
C	2-2"	3-#4S 3-#4S 3-#4	1							1			
D		3-#6 3-#4	1	1		1	3						1
E		3-#6 3-#8 3-#4		1		1	4						1
F		3-#8	1			1	1						
G		3-#6S	1							1			
H		3-#6S 3-#6S	1			1	1			1			
I		3-#10						1					
J		3-#6 3-#6S 3-#6S				1	1			1	1		
K		3-#4 3-#6 3-#6 3-#8 3-#8		1		1	6	1	1	1			1
L		3-#4 3-#6 3-#6 3-#8 3-#8		1		1	6	2	1	1			1

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	SIGNAL COMM CABLE
M		3-#4 3-#6 3-#6 3-#8 3-#8		1		1	6	3	1				1
N		3-#4 3-#6 3-#6 3-#8 3-#8		1		1	6	4	1				1
O	1-4"	3-#10											
P		3-#4 3-#6 3-#6 3-#8 3-#8		1	1	1	6	4	1				
Q					1								
R		3-#6S				1	1						
S		3-#4S 3-#4S				1	1			1			
T											1		
U	1-2"	3-#4 3-#6 3-#6 3-#8 3-#8											
V	8-4"			1	1								
W		3-#4S											
X		3-#6S 3-#6S											
Y	1-4"	4-#2											
Z	1-2"		1			1	6	4	1				1
AA	1-2"												1

- NOTE:
- GATES DT-G1, DT-G2, DT-G3 AND DT-G4 MUST HAVE MOTORS RATED FOR 277V 60Hz SINGLE PHASE
 - SEE DETAIL SHEET D-13 FOR ELECTRICAL CIRCUIT DIAGRAM
 - POWER SERVICE IS TO BE PROVIDED BY TMC BUILDING, 277/480V, 3 WIRE, SINGLE PHASE, 100AMP
 - CONTRACTOR TO TERMINATE 12 STR AND 96 STR FIBER OPTIC CABLE INSIDE TRAFFIC MANAGEMENT CENTER (TMC)



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

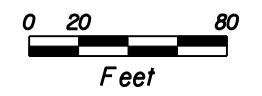
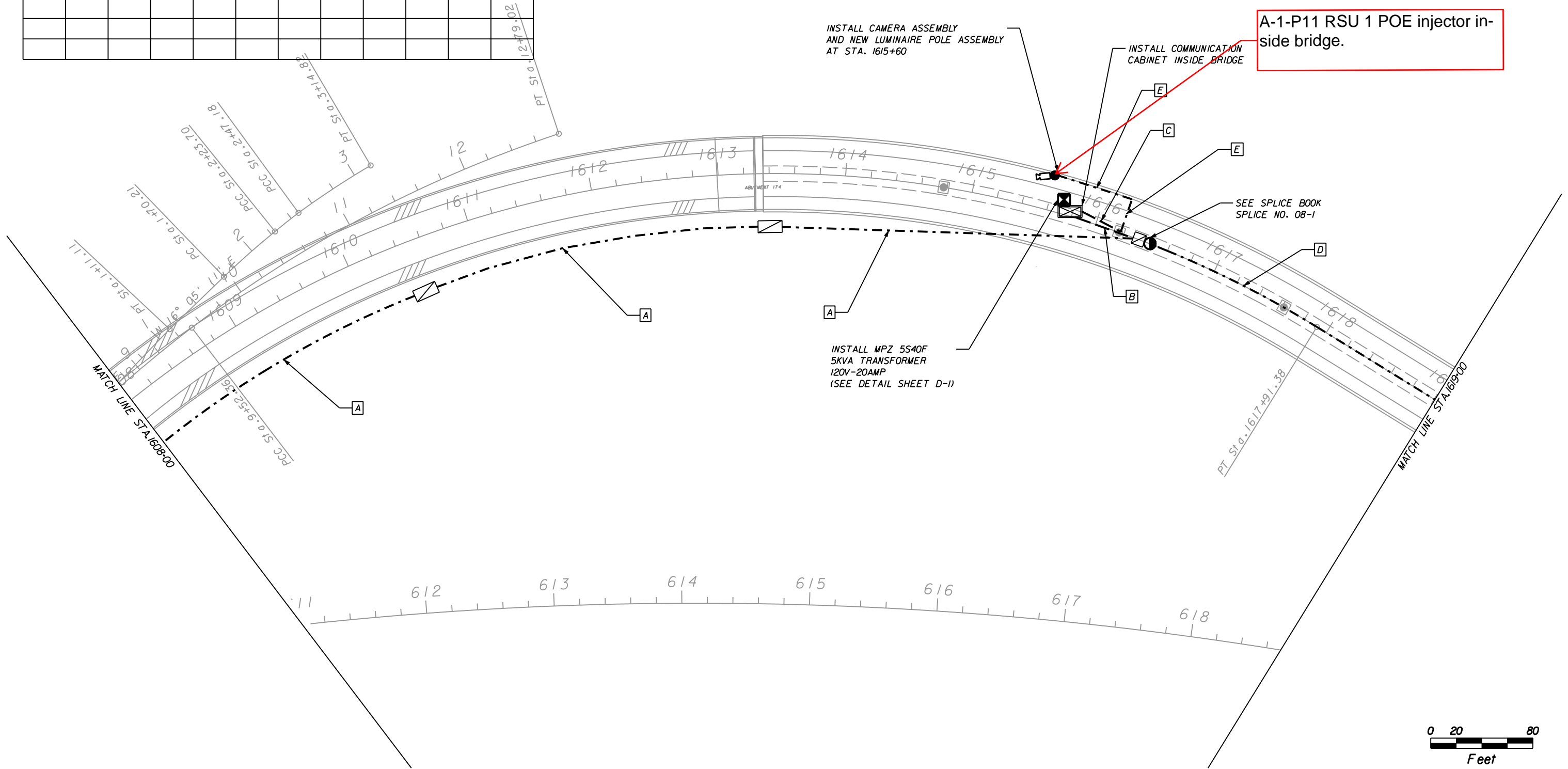
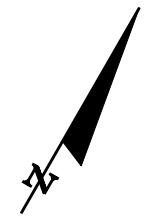
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO. **I-7**

SEGMENT	CONDUIT	CONDUCTORS	12 STR SW DROP CABLE	96 STR SW FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B	2-2"	3-#10	1						1		
C	1-2"									1	
D		3-#10		1					1		
E										1	



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

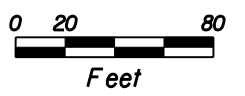
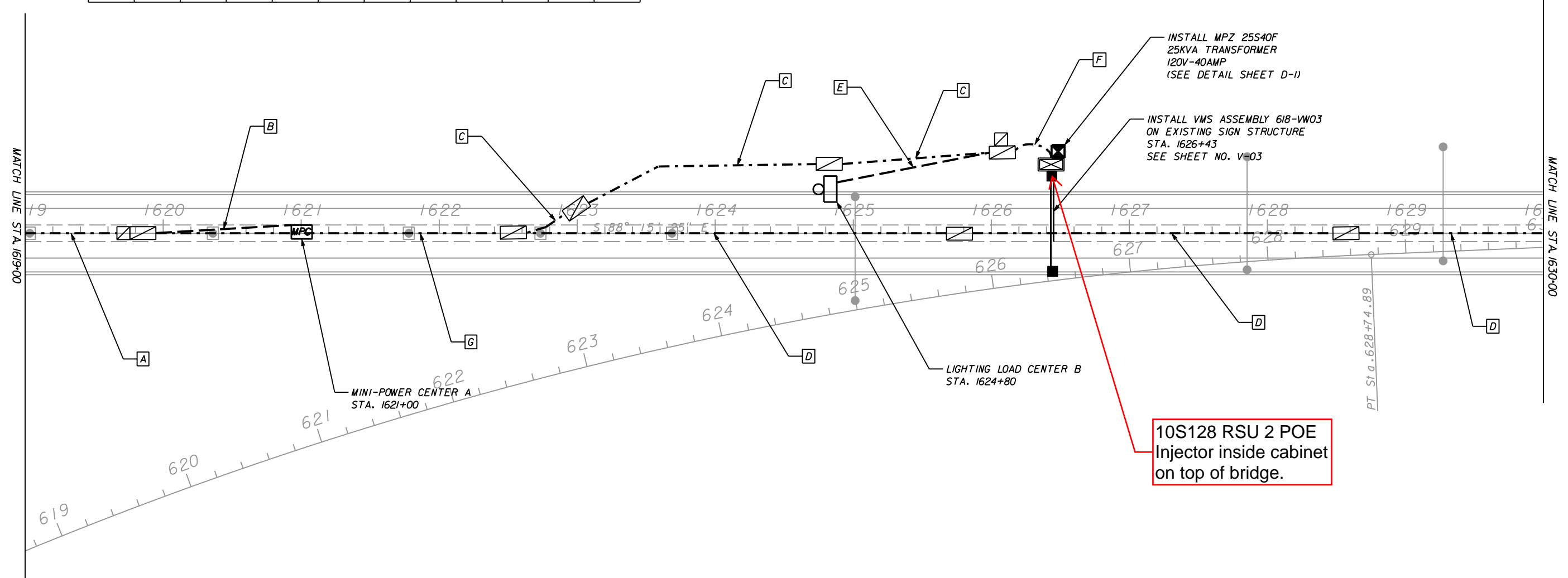
510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-8

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A		3-#10		1					1		
B	1-2"	3-#10									
C									1		
D				1							
E	1-2"	3-#2							1		
F		3-#2							1		
G				1					1		



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

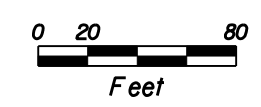
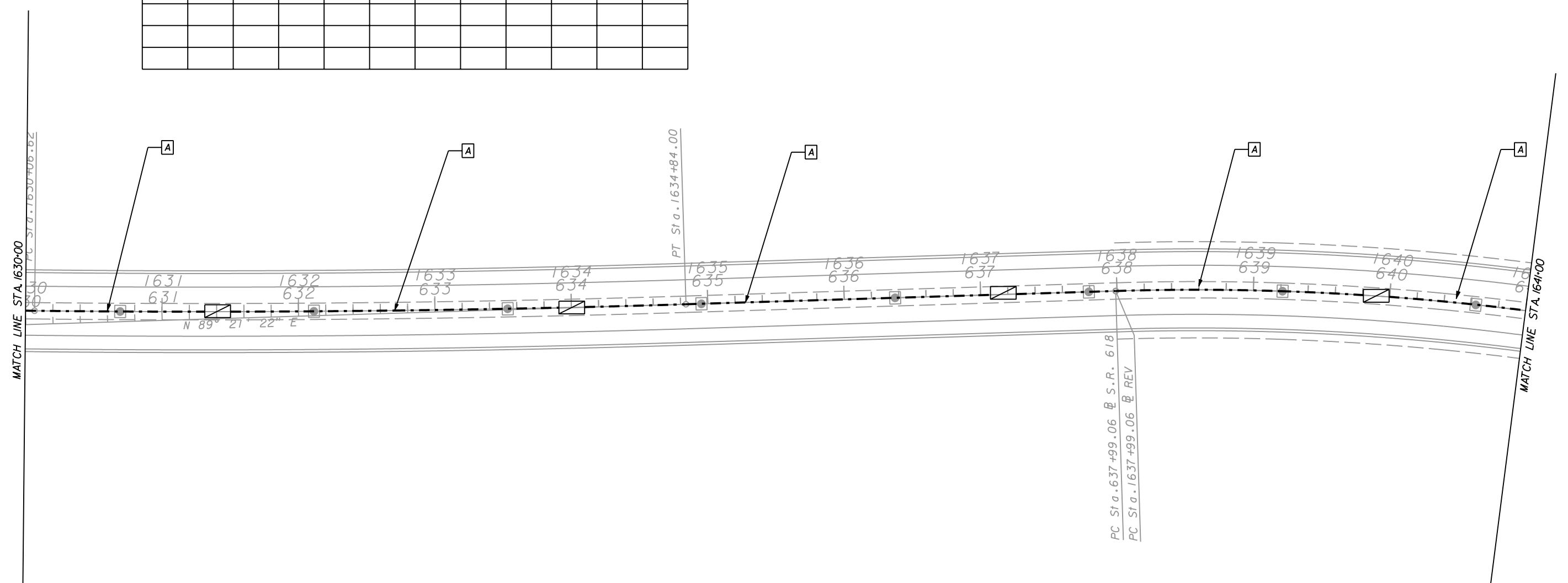
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-9

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

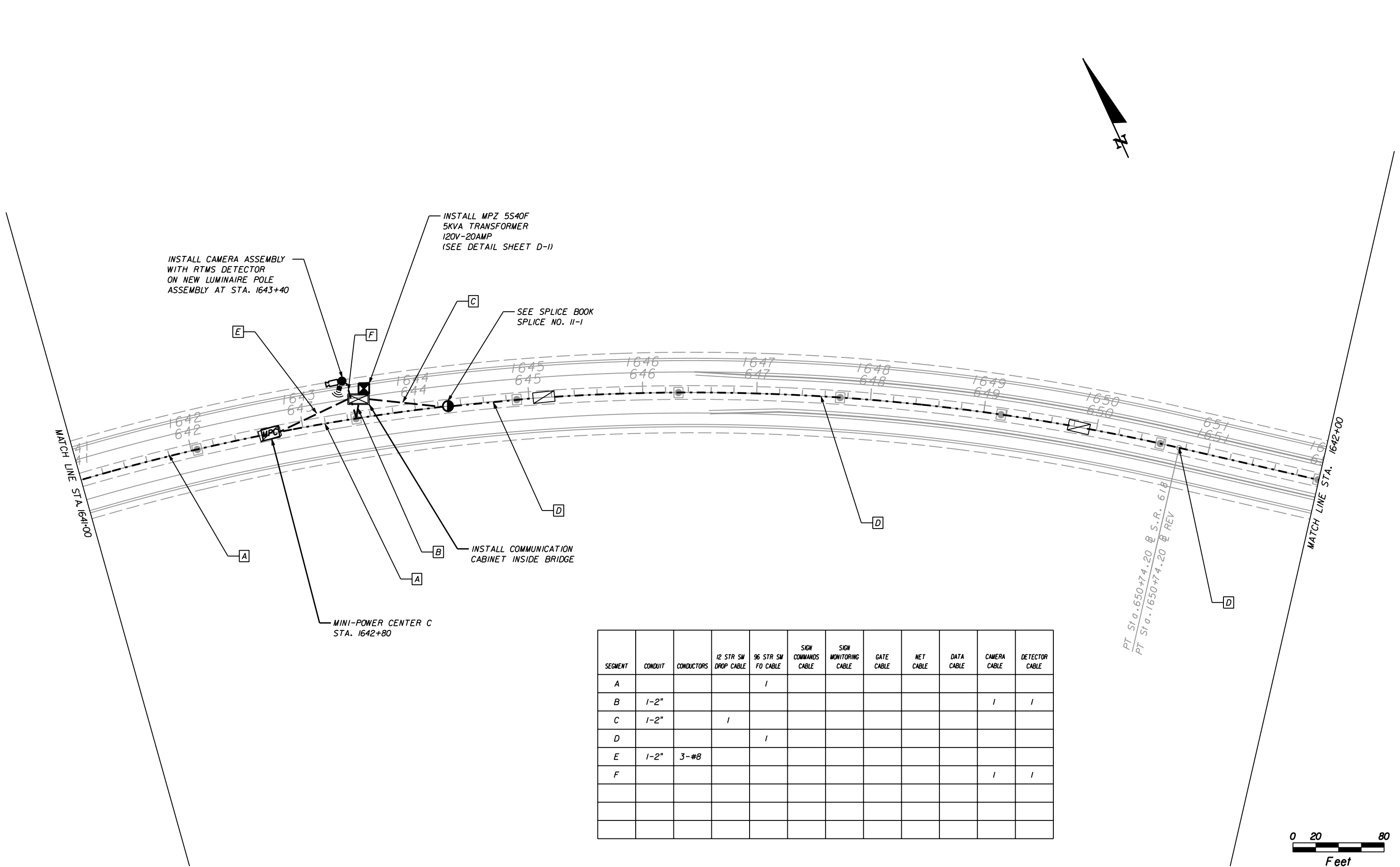
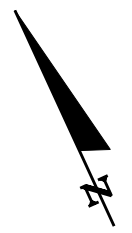
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

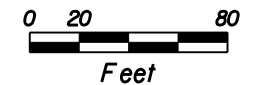
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-10



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B	1-2"									1	1
C	1-2"		1								
D				1							
E	1-2"	3-#8									
F										1	1



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

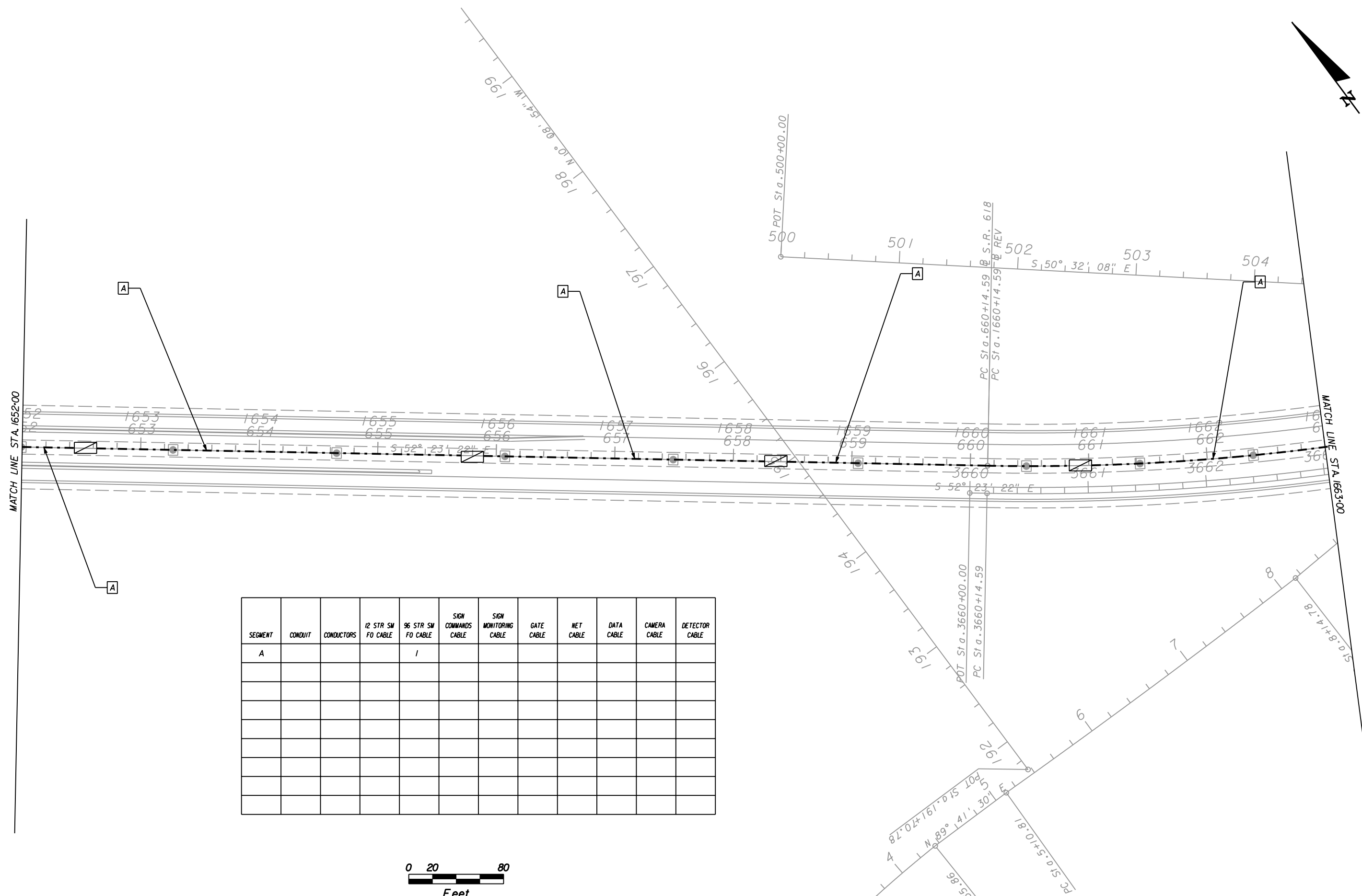
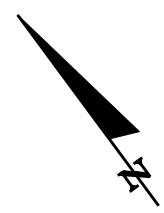
510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

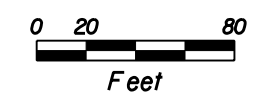
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-11



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

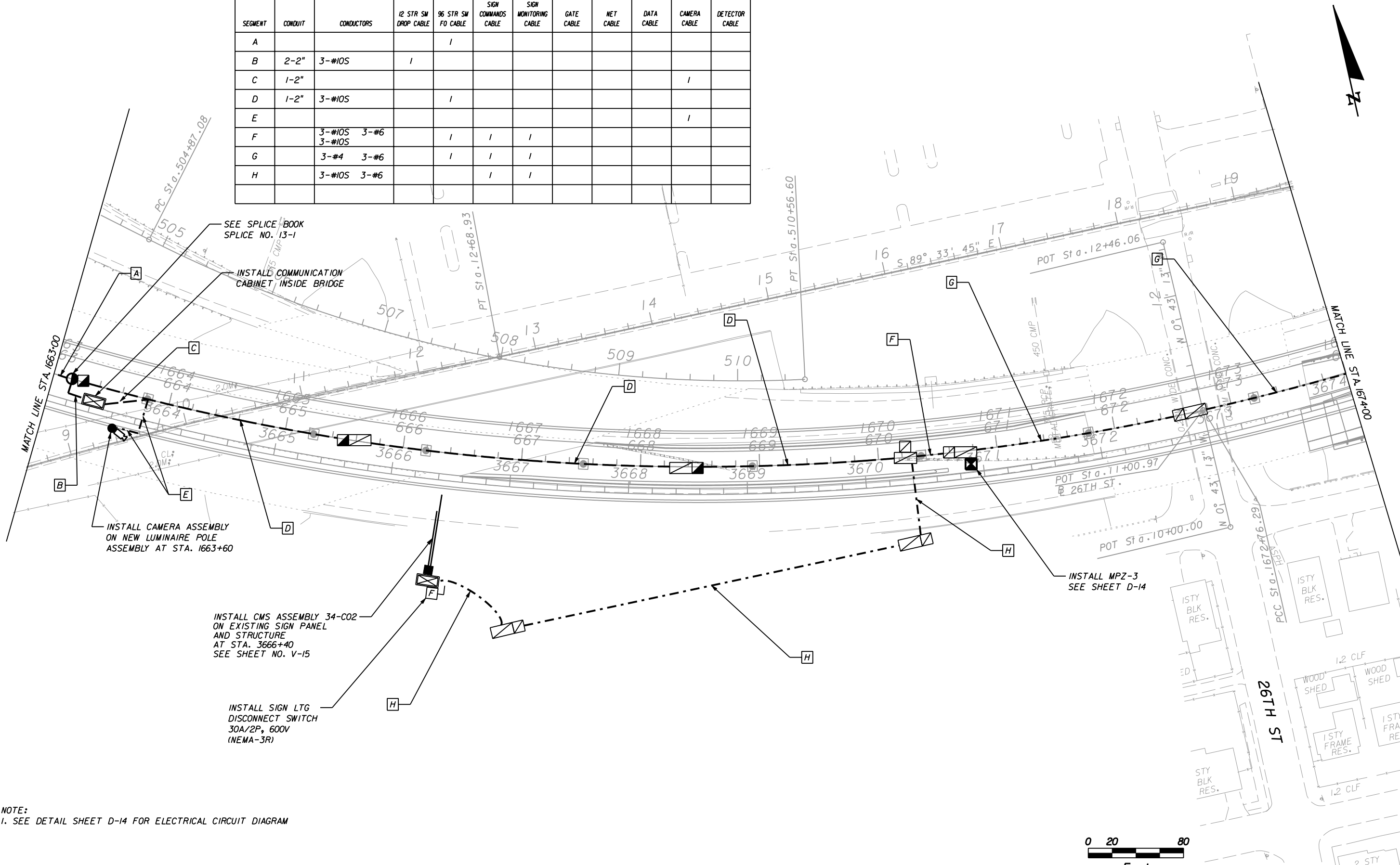
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

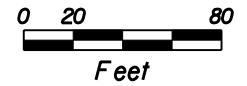
INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-12

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B	2-2"	3-#10S	1								
C	1-2"									1	
D	1-2"	3-#10S		1							
E										1	
F		3-#10S 3-#6		1	1	1					
G		3-#4 3-#6		1	1	1					
H		3-#10S 3-#6			1	1					



NOTE:
1. SEE DETAIL SHEET D-14 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

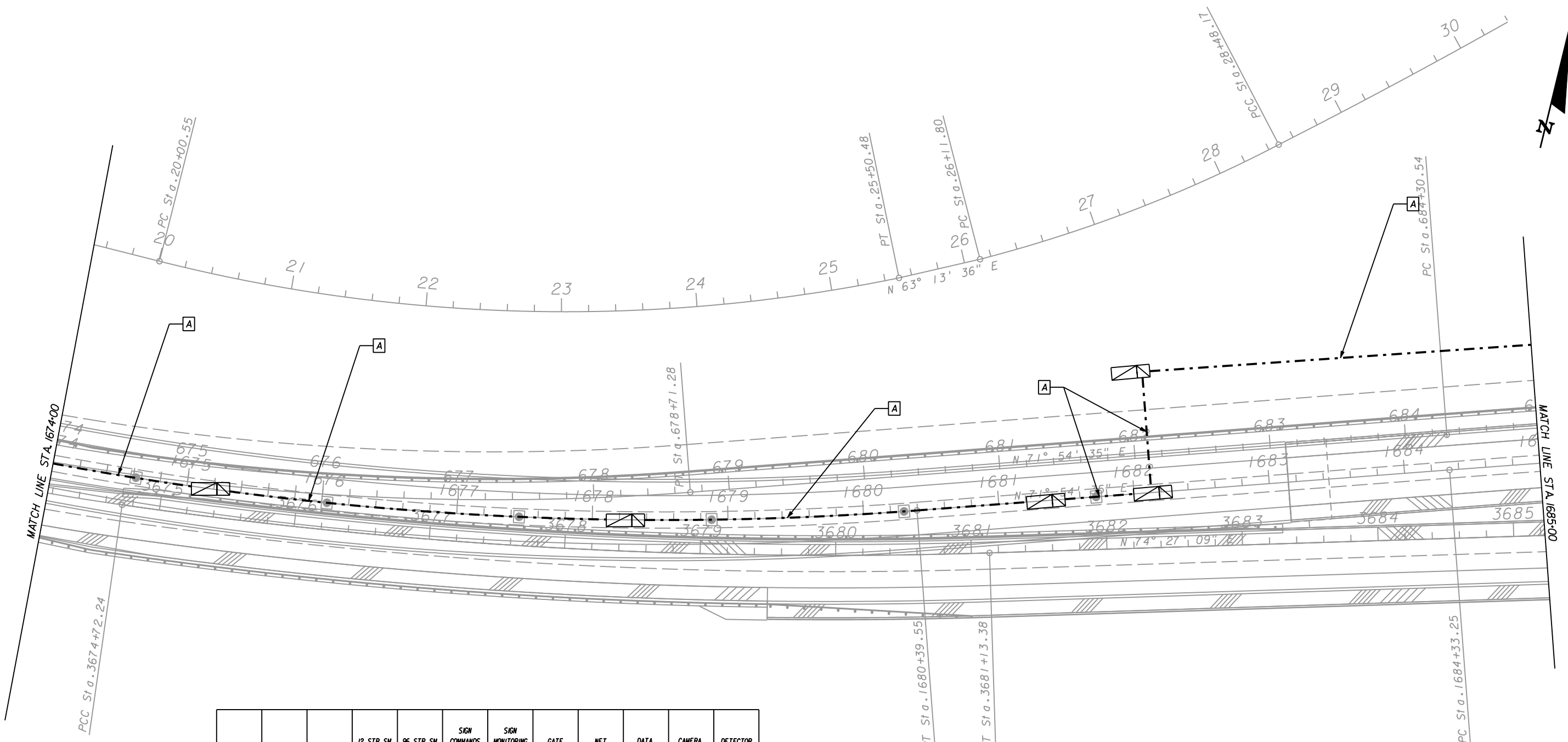
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

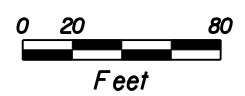
INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO. **I-13**



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A		3-#4 3-#6		1	1	1					

NOTE:
1. SEE DETAIL SHEET D-14 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

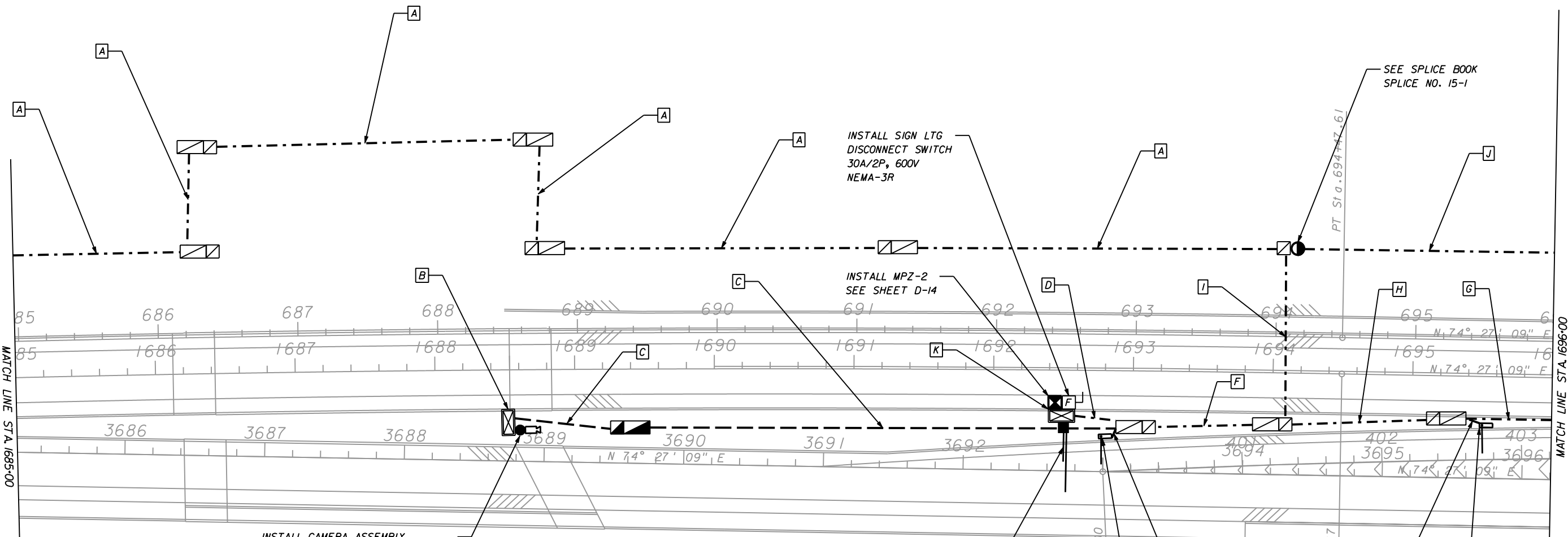
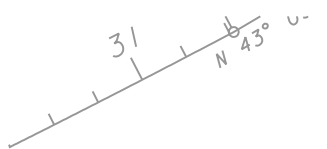
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

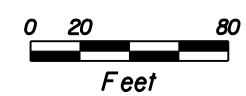
**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.
I-14



SEGMENT	CONDUIT	CONDUCTORS	12 STR SW DROP CABLE	96 STR SW FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A		3-#4 3-#6		/	/	/					
B										/	
C	2-2"	3-#10S	/						/		
D		3-#6 3-#6 3-#10S			/	/					
E		3-#10					/				
F		3-#6 3-#4 3-#6	/		/	/	/		/		
G		3-#4					/				
H		3-#4					2				
I		3-#6 3-#4 3-#6	/		/	/	3		/		
J		3-#4 3-#6 3-#6 3-#4		/	/	2	3		/		
K		3-#10S									

INSTALL CMS ASSEMBLY 34-CO1 ON EXISTING SIGN PANEL AND STRUCTURE AT STA. 1692+51 SEE SHEET NO. V-14



NOTE:
1. SEE DETAIL SHEET D-14 FOR ELECTRICAL CIRCUIT DIAGRAM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

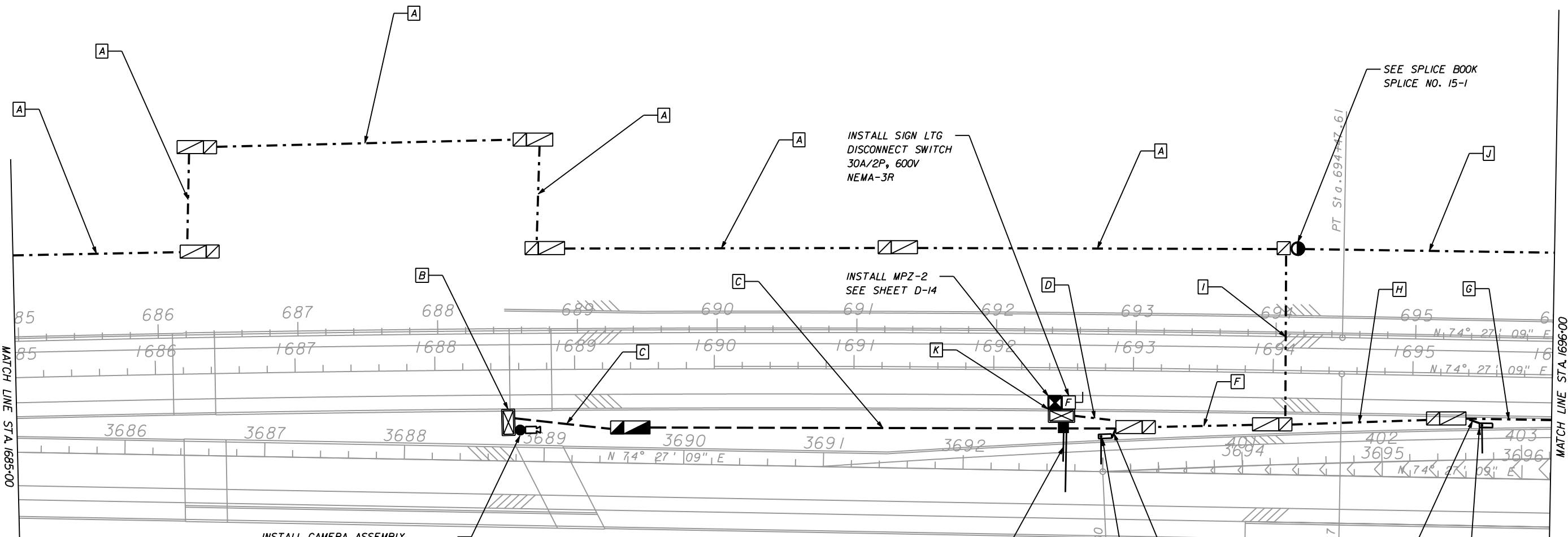
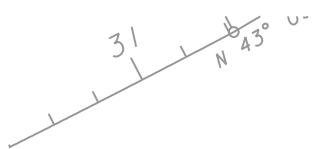
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

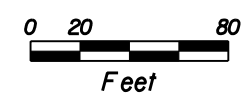
INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-15



SEGMENT	CONDUIT	CONDUCTORS	12 STR SW DROP CABLE	96 STR SW FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A		3-#4 3-#6		/	/	/					
B										/	
C	2-2"	3-#10S	/						/		
D		3-#6 3-#6 3-#10S			/	/					
E		3-#10					/				
F		3-#6 3-#4 3-#6	/		/	/	/		/		
G		3-#4					/				
H		3-#4					2				
I		3-#6 3-#4 3-#6	/		/	/	3		/		
J		3-#4 3-#6 3-#6 3-#4		/	/	2	3		/		
K		3-#10S									

INSTALL CMS ASSEMBLY 34-COI ON EXISTING SIGN PANEL AND STRUCTURE AT STA. 1692+51 SEE SHEET NO. V-14



NOTE:
1. SEE DETAIL SHEET D-14 FOR ELECTRICAL CIRCUIT DIAGRAM

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

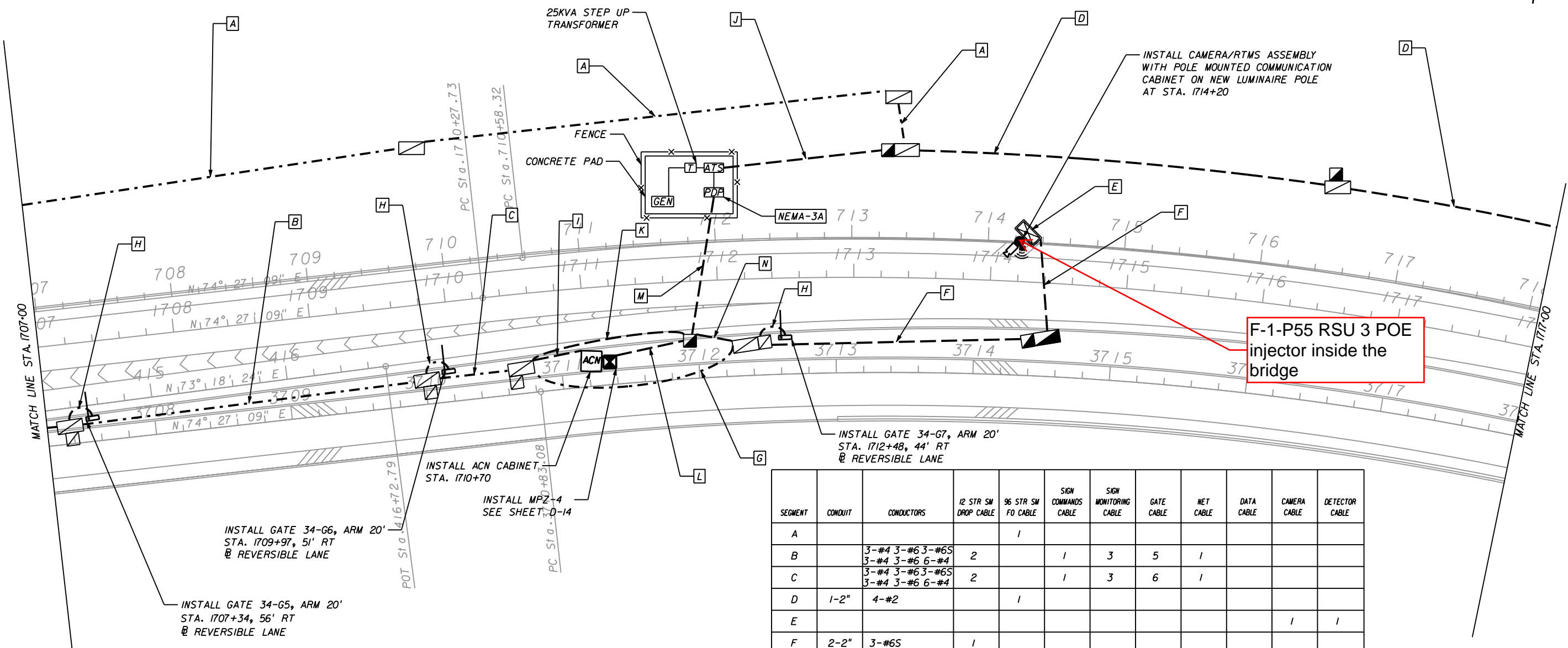
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-15



F-1-P55 RSU 3 POE injector inside the bridge

INSTALL GATE 34-G6, ARM 20'
STA. 1709+97, 51' RT
@ REVERSIBLE LANE

INSTALL GATE 34-G5, ARM 20'
STA. 1707+34, 56' RT
@ REVERSIBLE LANE

INSTALL ACN CABINET
STA. 1710+70

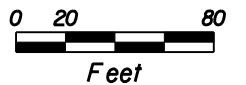
INSTALL MPZ-4
SEE SHEET D-14

INSTALL GATE 34-G7, ARM 20'
STA. 1712+48, 44' RT
@ REVERSIBLE LANE

INSTALL CAMERA/RTMS ASSEMBLY
WITH POLE MOUNTED COMMUNICATION
CABINET ON NEW LUMINAIRE POLE
AT STA. 1714+20

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B		3-#4 3-#6 3-#6S 3-#4 3-#6 6-#4	2		1	3	5	1			
C		3-#4 3-#6 3-#6S 3-#4 3-#6 6-#4	2		1	3	6	1			
D	1-2"	4-#2		1							
E										1	1
F	2-2"	3-#6S	1								
G			1				1				
H		3-#10					1				
I	1-2"		1		1	3	7	1			
J	1-2"	4-#2									
K	1-2"	3-#4 3-#6 3-#4 3-#4 3-#6 3-#4									
L	1-2"	3-#10									
M	1-2"	3-#4 3-#6 6-#4 3-#4 3-#6 3-#10									
N	1-2"	3-#4									

NOTE:
1. SEE DETAIL SHEET D-14 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

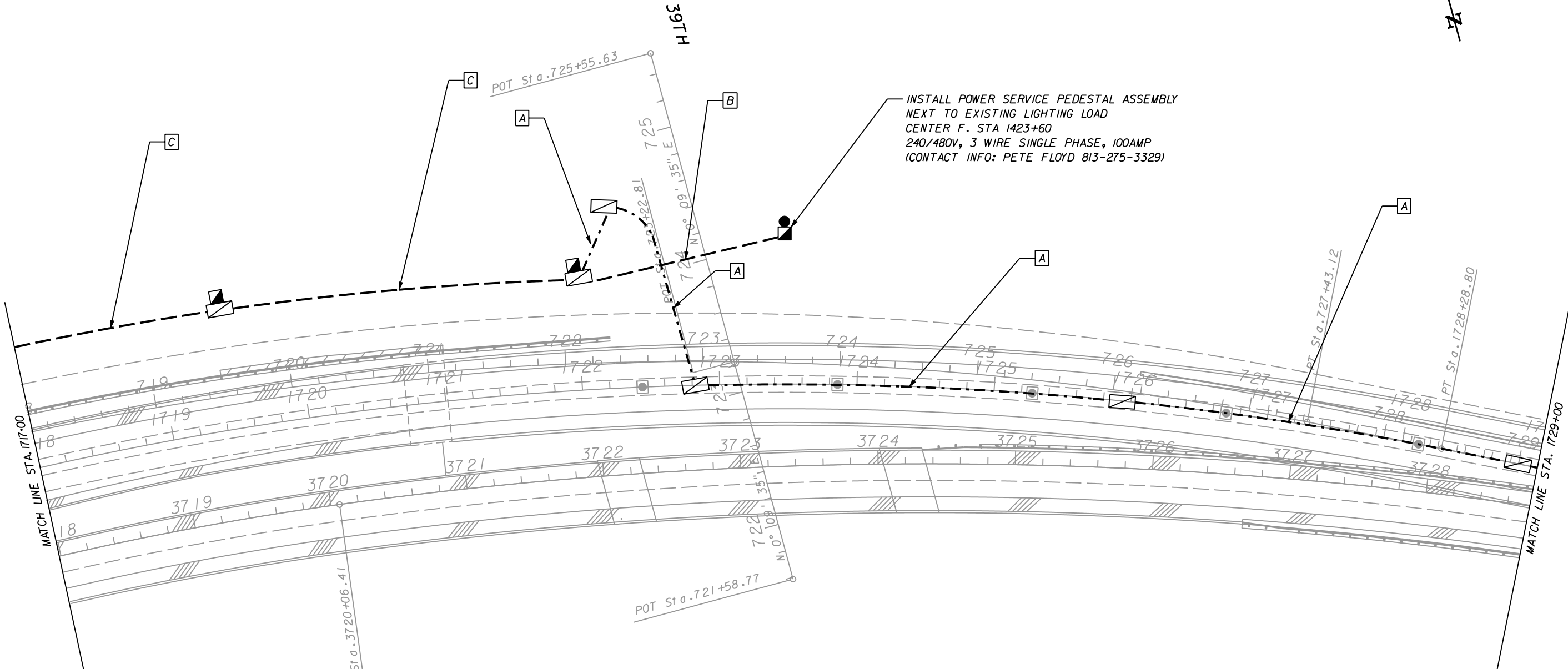
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

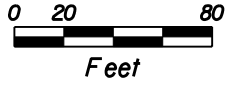
SHEET NO.
I-17



INSTALL POWER SERVICE PEDESTAL ASSEMBLY
 NEXT TO EXISTING LIGHTING LOAD
 CENTER F. STA 1423+60
 240/480V, 3 WIRE SINGLE PHASE, 100AMP
 (CONTACT INFO: PETE FLOYD 813-275-3329)

NOTE:
 1. SEE DETAIL SHEET D-14 FOR ELECTRICAL CIRCUIT DIAGRAM

SEGMENT	CONDUIT	CONDUCTORS	12 STR SW FO CABLE	96 STR SW FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B	1-2"	4-#2									
C	1-2"	4-#2		1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
 The HNTB COMPANIES

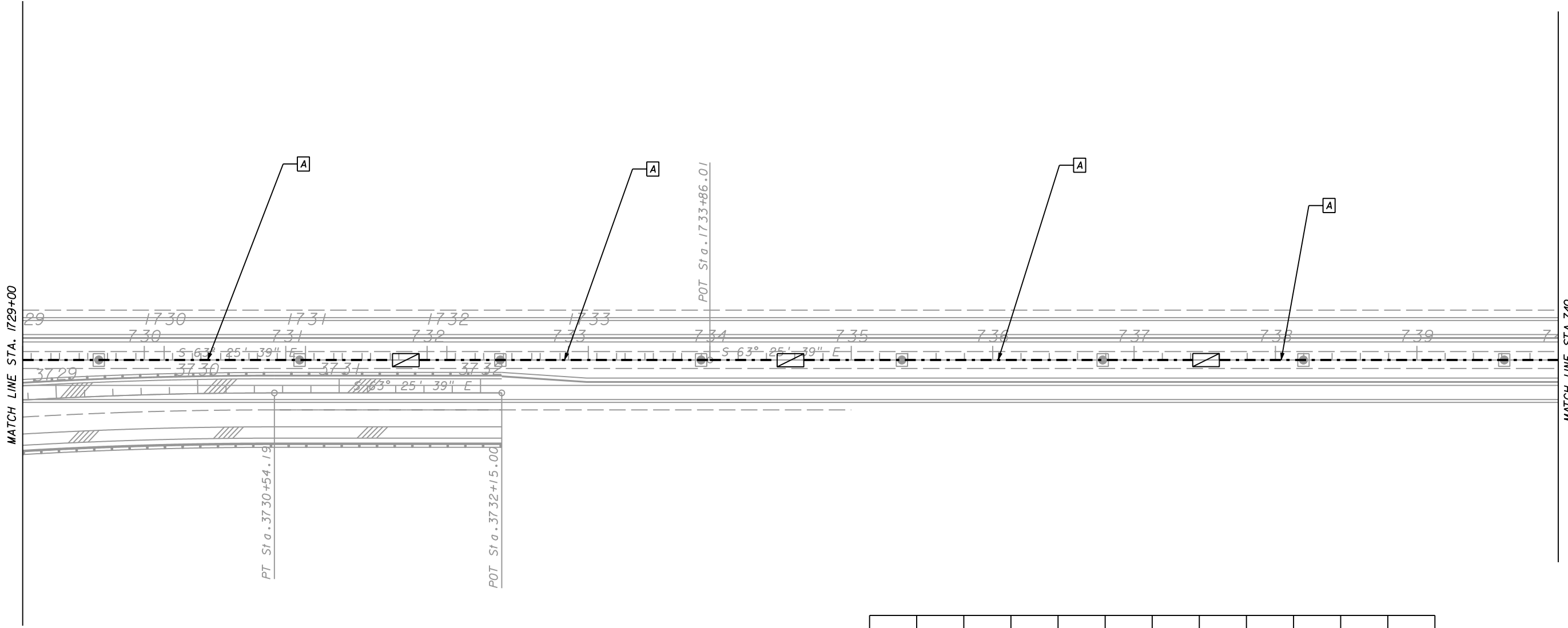
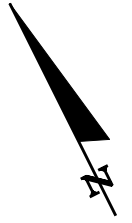
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

**TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY**

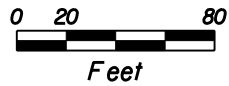
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**INTELLIGENT TRANSPORTATION
 SYSTEM PLAN**

SHEET NO.
I-18



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

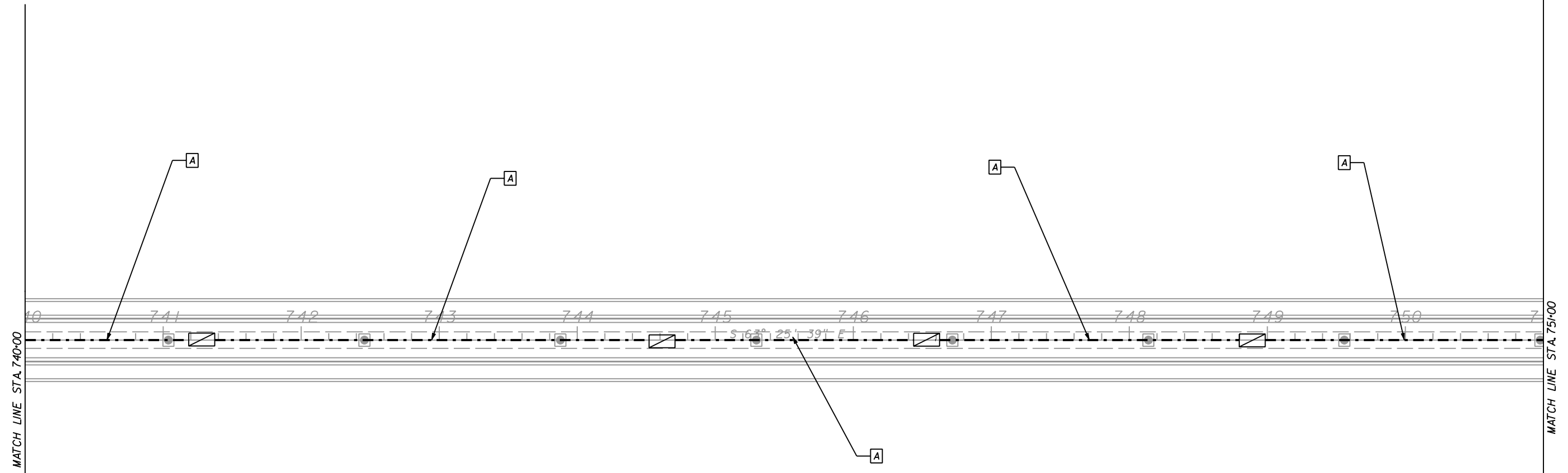
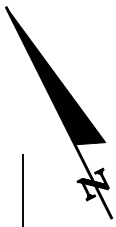
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

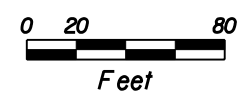
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.
I-19



SEGMENT	CONDUIT	CONDUCTORS	12 STR SW FO CABLE	96 STR SW FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

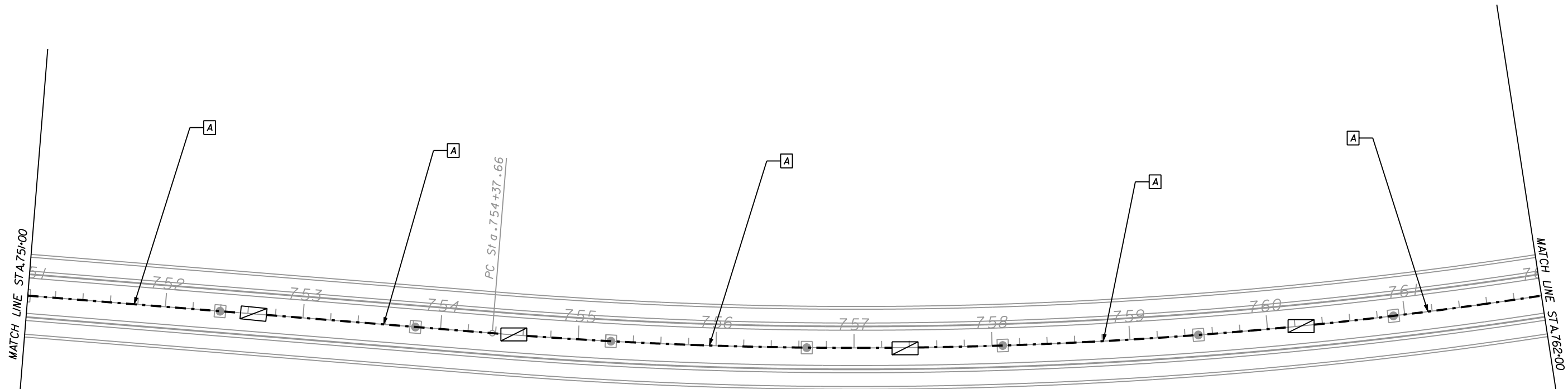
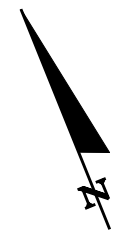
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

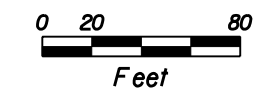
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.
I-20



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

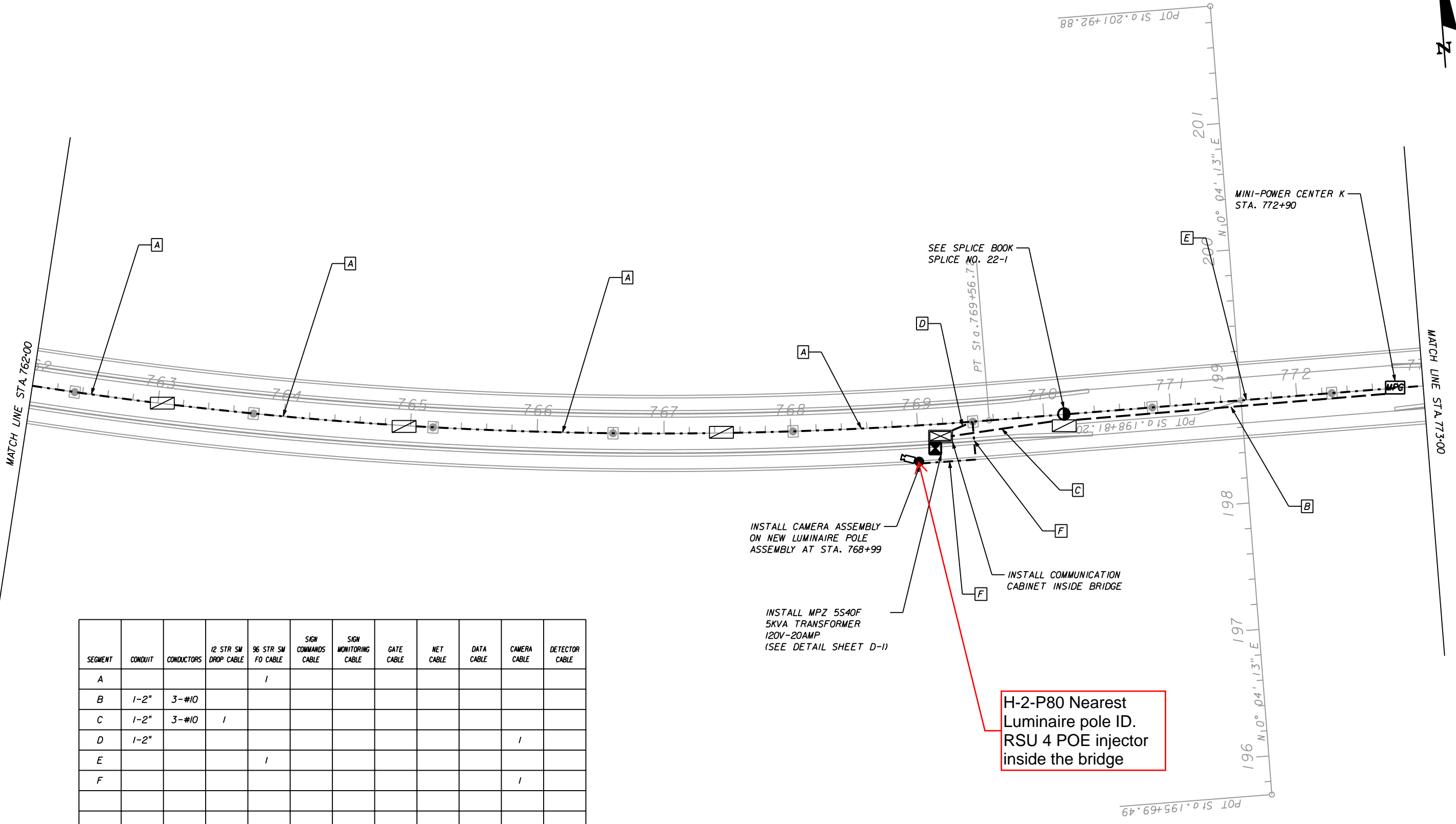
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.
1-21

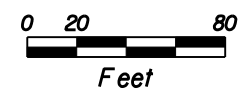


INSTALL CAMERA ASSEMBLY ON NEW LUMINAIRE POLE ASSEMBLY AT STA. 768+99

INSTALL MPZ 5S40F 5KVA TRANSFORMER 120V-20AMP (SEE DETAIL SHEET D-1)

INSTALL COMMUNICATION CABINET INSIDE BRIDGE

H-2-P80 Nearest Luminaire pole ID. RSU 4 POE injector inside the bridge



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

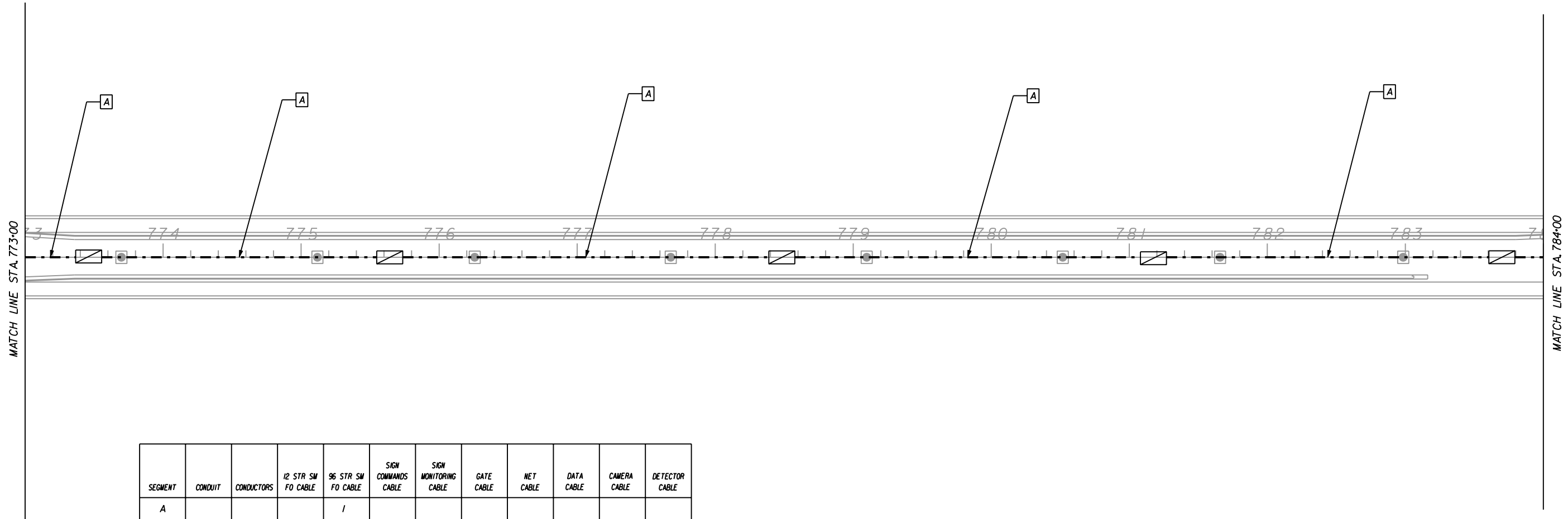
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

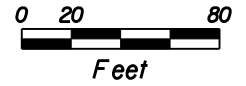
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

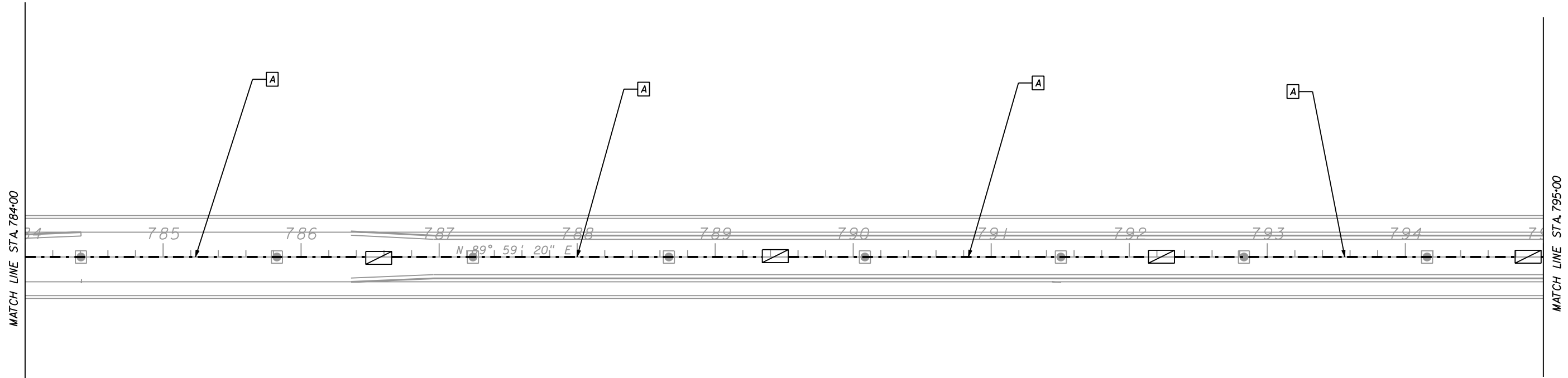
SHEET NO. **I-22**



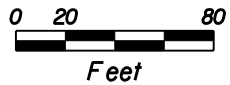
SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES 510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			INTELLIGENT TRANSPORTATION SYSTEM PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		I-23
						S.R. 618	HILLSBOROUGH	53.41.01			



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

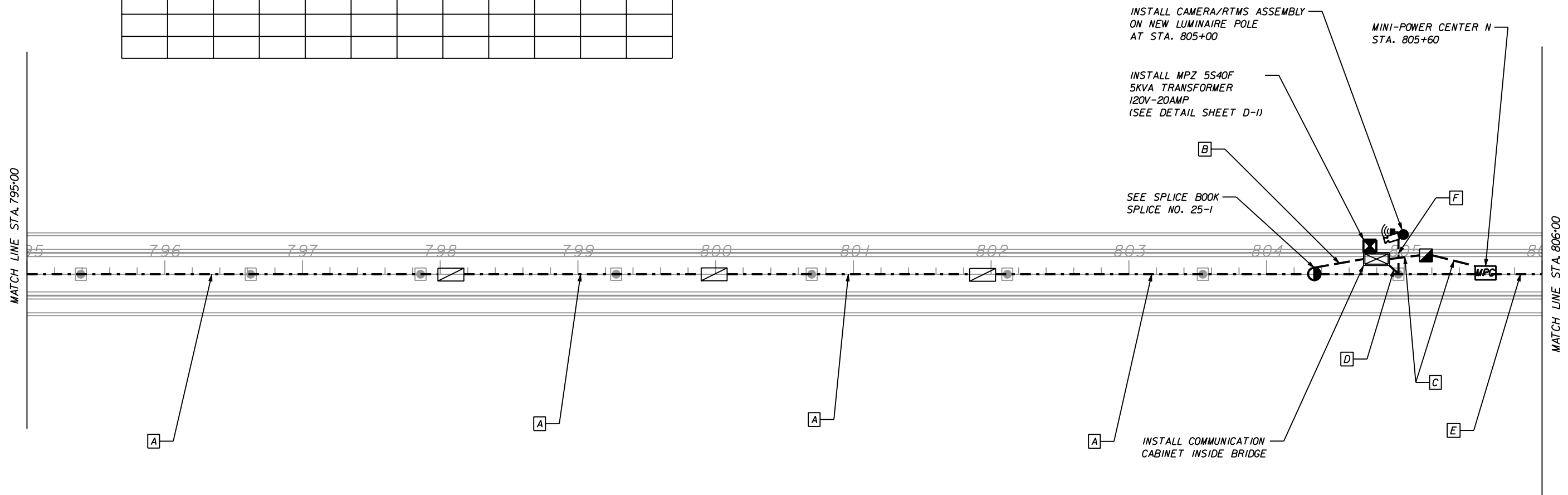
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

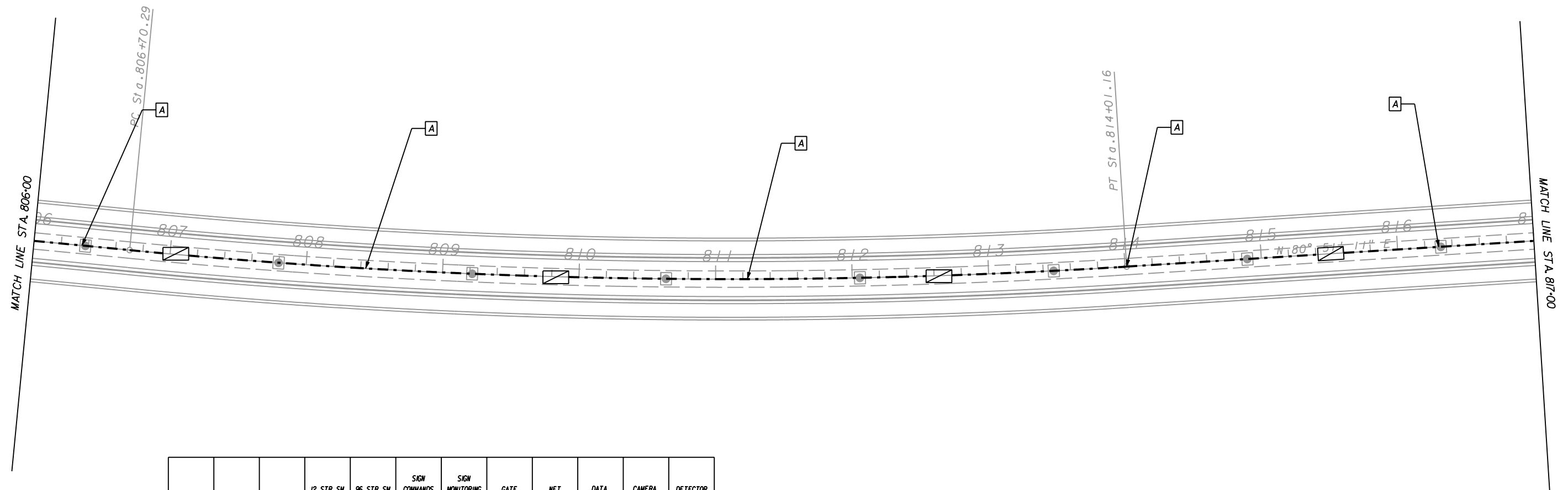
**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.
I-24

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B	1-2"		1								
C	1-2"	3-#8									
D	1-2"									1	1
E				1							
F										1	1



REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS <small>The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			INTELLIGENT TRANSPORTATION SYSTEM PLAN	SHEET NO. I-25
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	S.R. 618	HILLSBOROUGH	53.41.01		



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

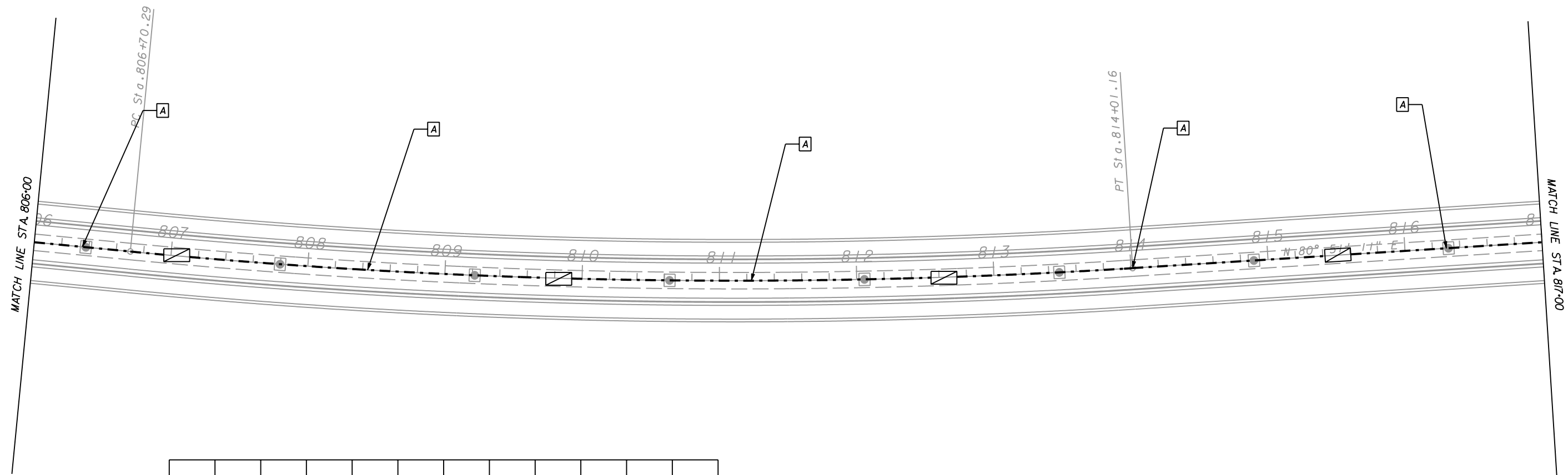
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

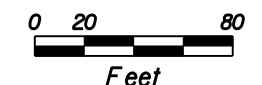
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.
I-26

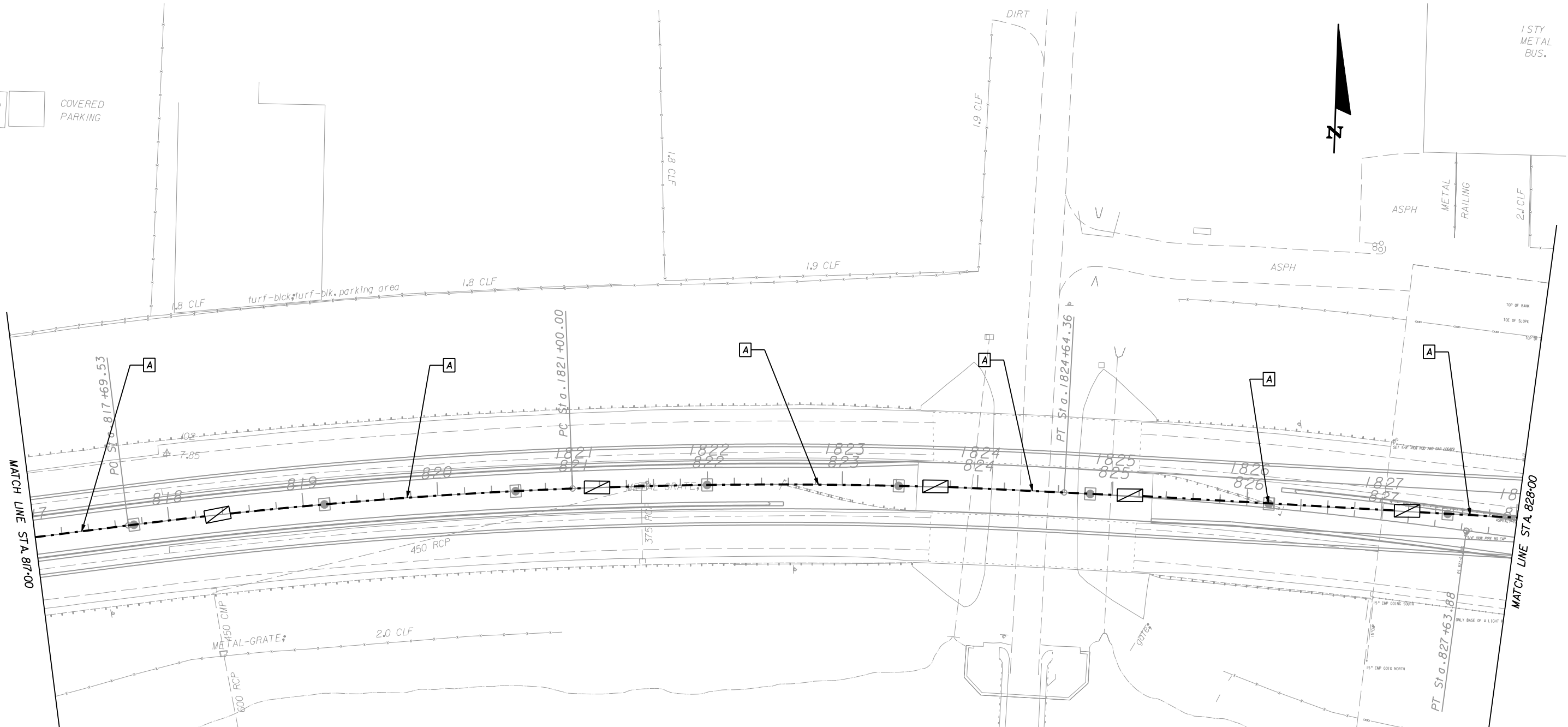


SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			INTELLIGENT TRANSPORTATION SYSTEM PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		I-26
						S.R. 618	HILLSBOROUGH	53.41.01			

CONC COVERED PARKING



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

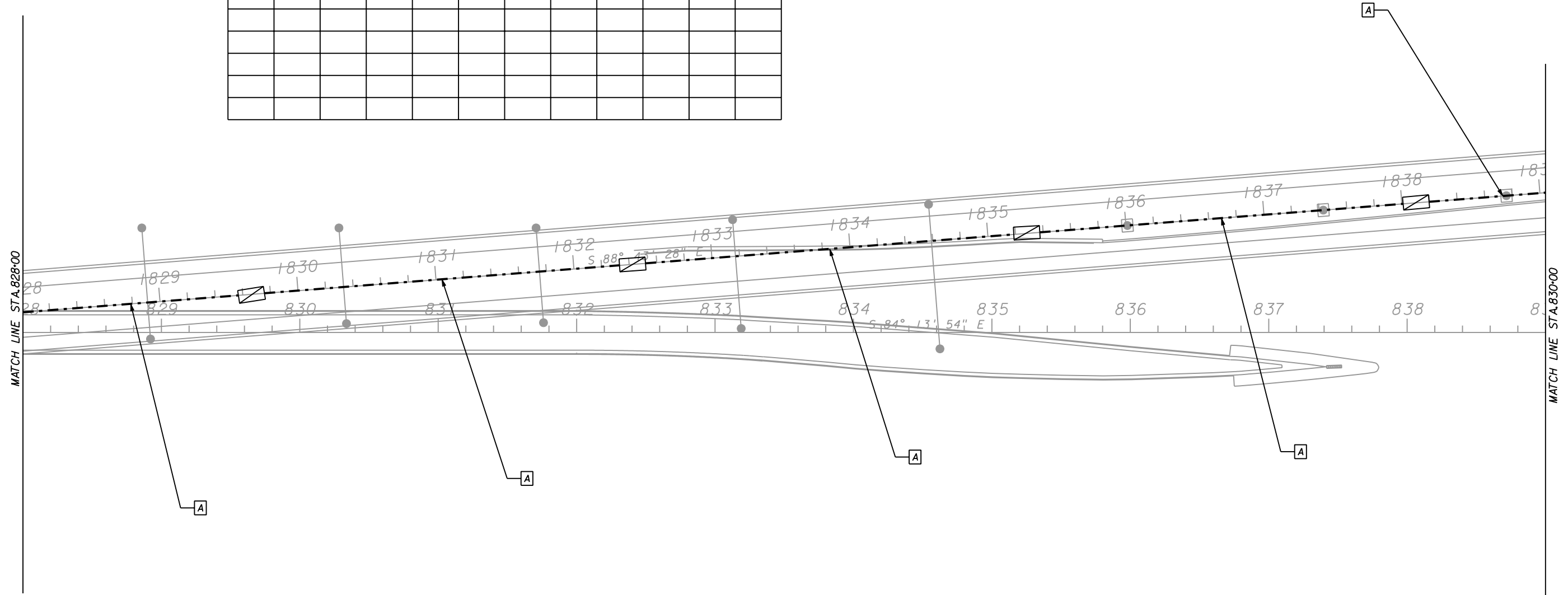
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-27

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

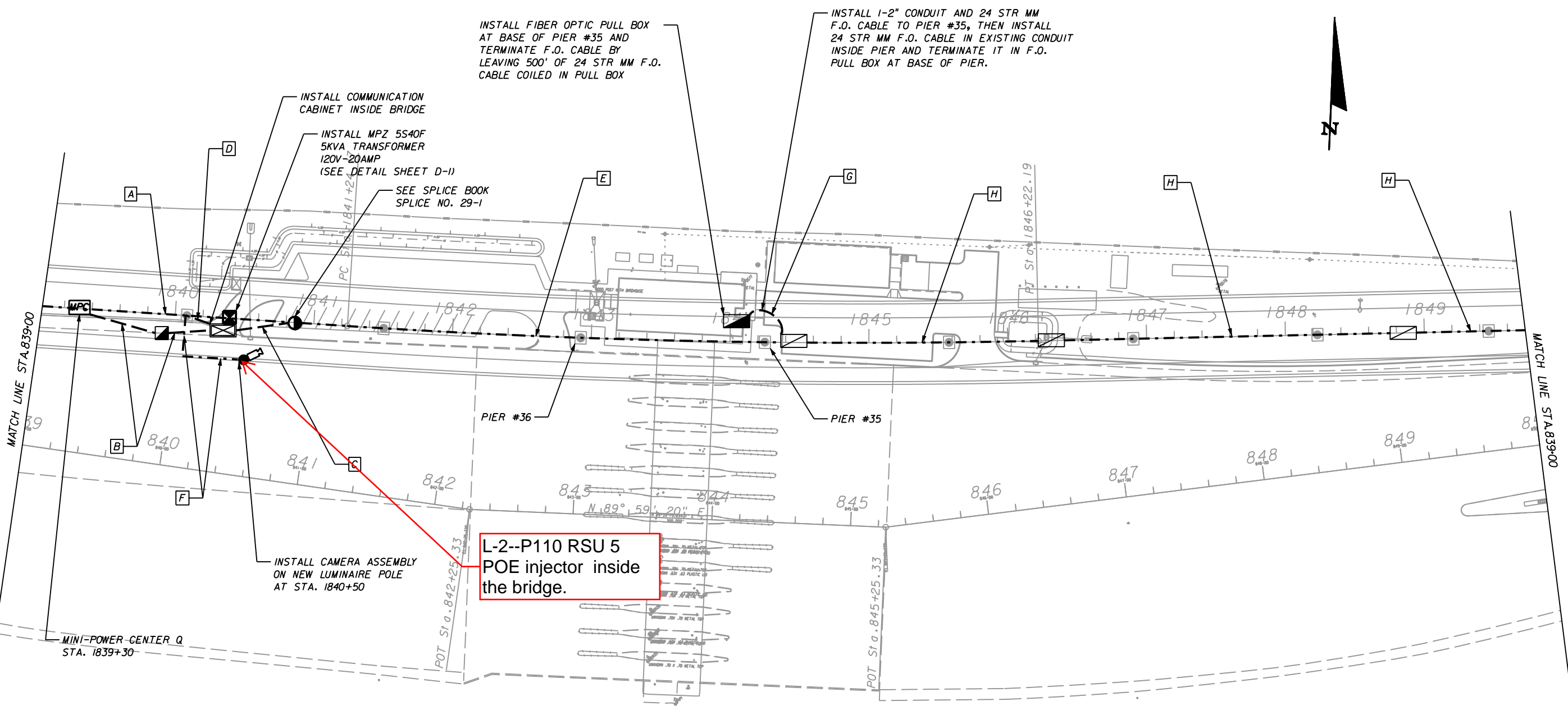
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

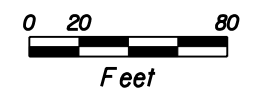
INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-28



**L-2--P110 RSU 5
POE injector inside
the bridge.**

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	24 STR MM FO CABLE
A				I								
B	1-2"	3-#10										
C	1-2"		I									
D	1-2"											
E				I								
F												
G	1-2"											I
H				I								I



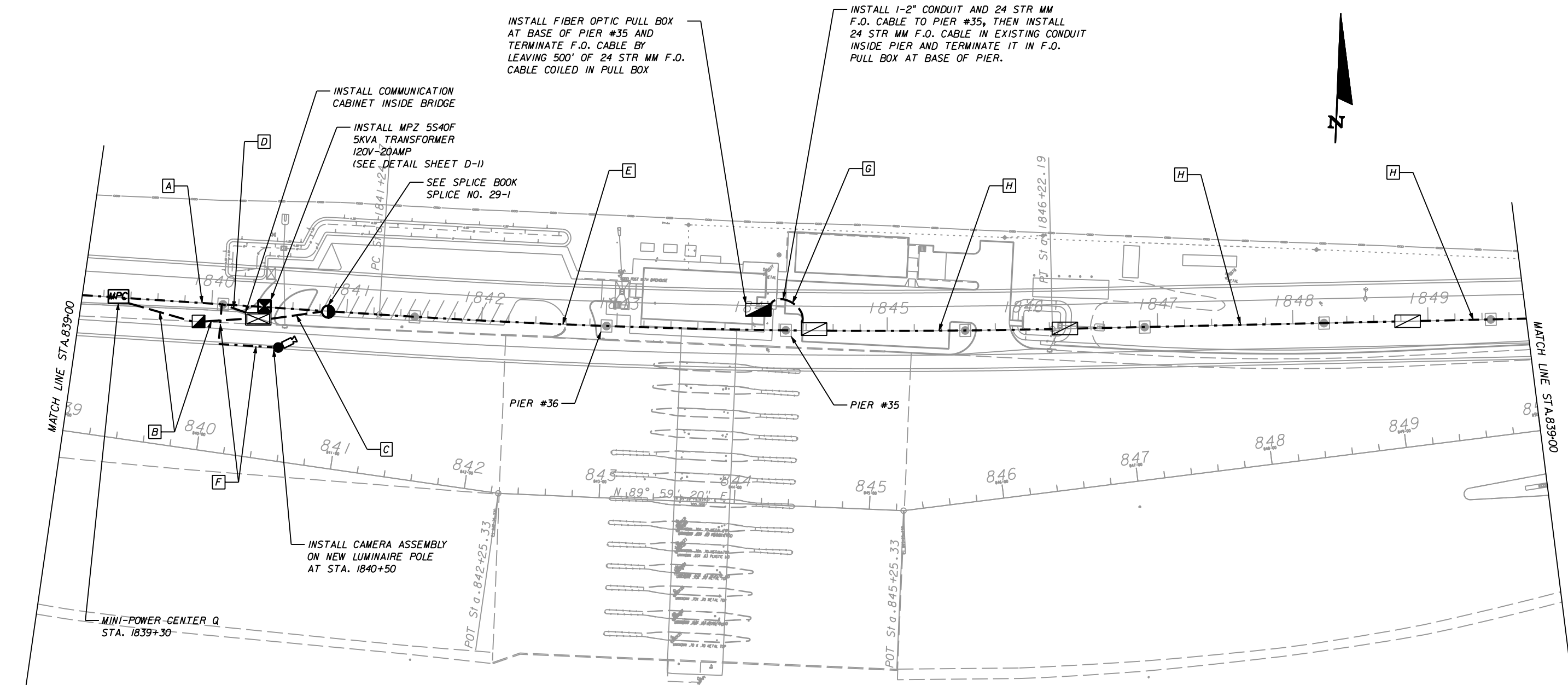
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES
510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-29



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	24 STR MM FO CABLE
A				I								
B	1-2"	3-#10										
C	1-2"		I									
D	1-2"									I		
E				I								
F										I		
G	1-2"											I
H				I								I



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

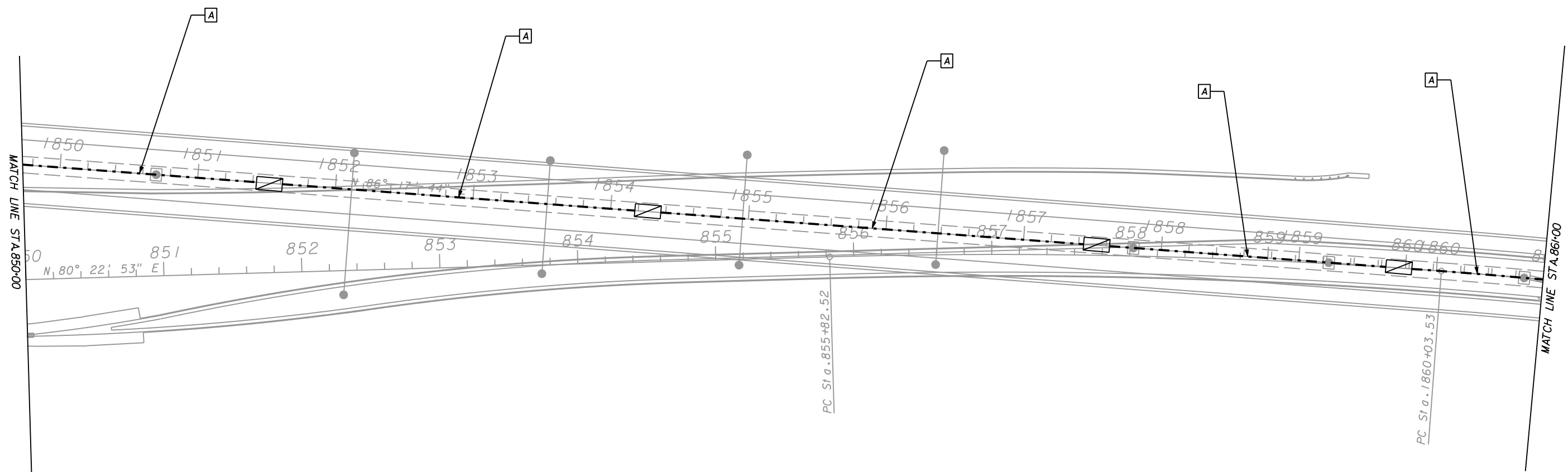
510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
18131 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-29



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	24 STR MM FO CABLE
A				1								1



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

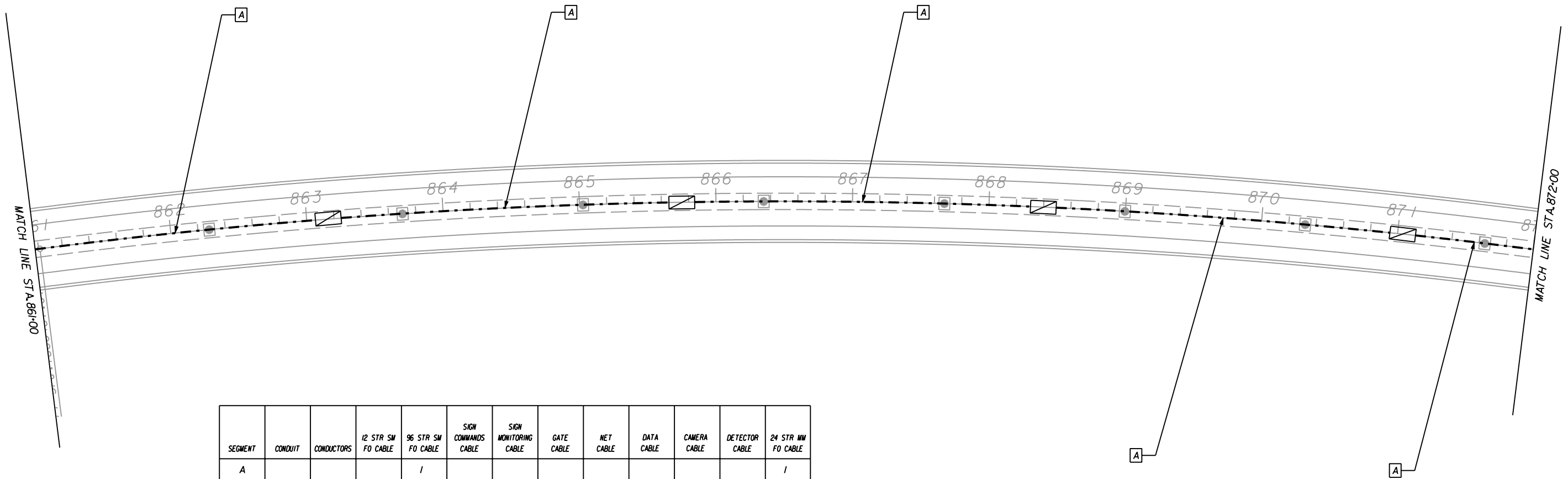
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

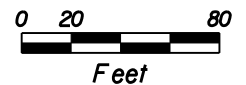
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-30



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	24 STR MM FO CABLE
A				/								/



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

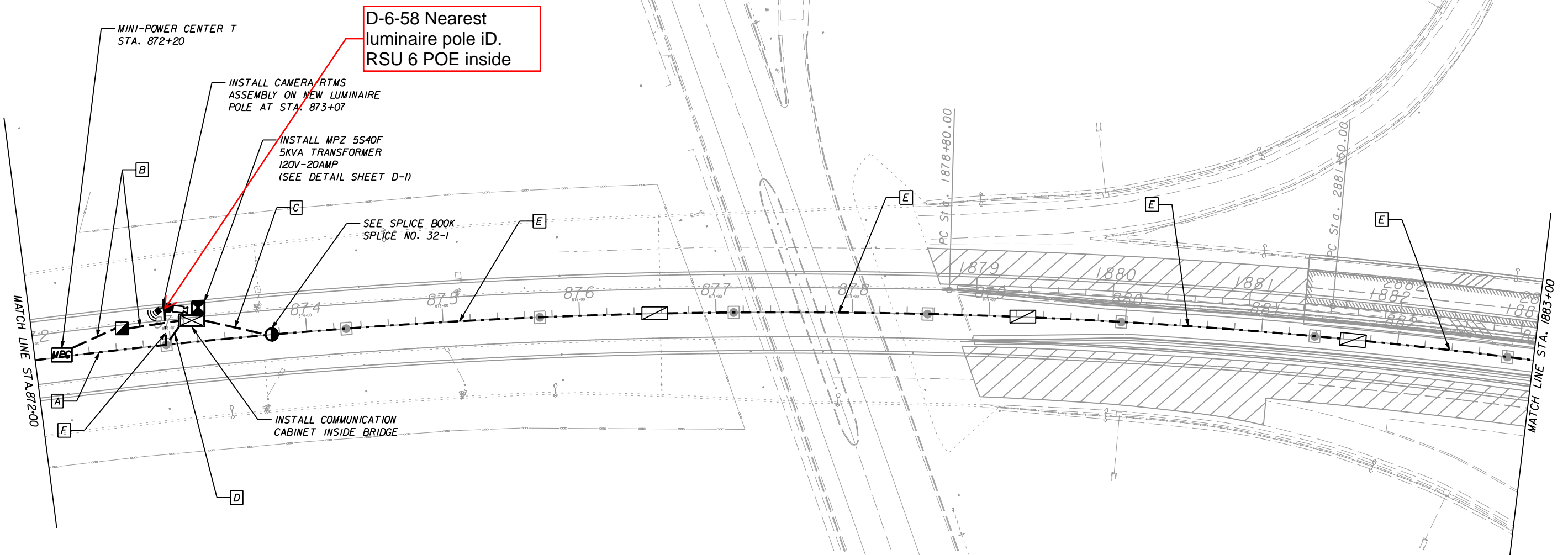
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-31



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGM COMMANDS CABLE	SIGM MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	24 STR MM FO CABLE
A				/								/
B	1-2"	3-#8										
C	1-2"		/									
D	1-2"									/	/	
E				/								/
F										/	/	



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

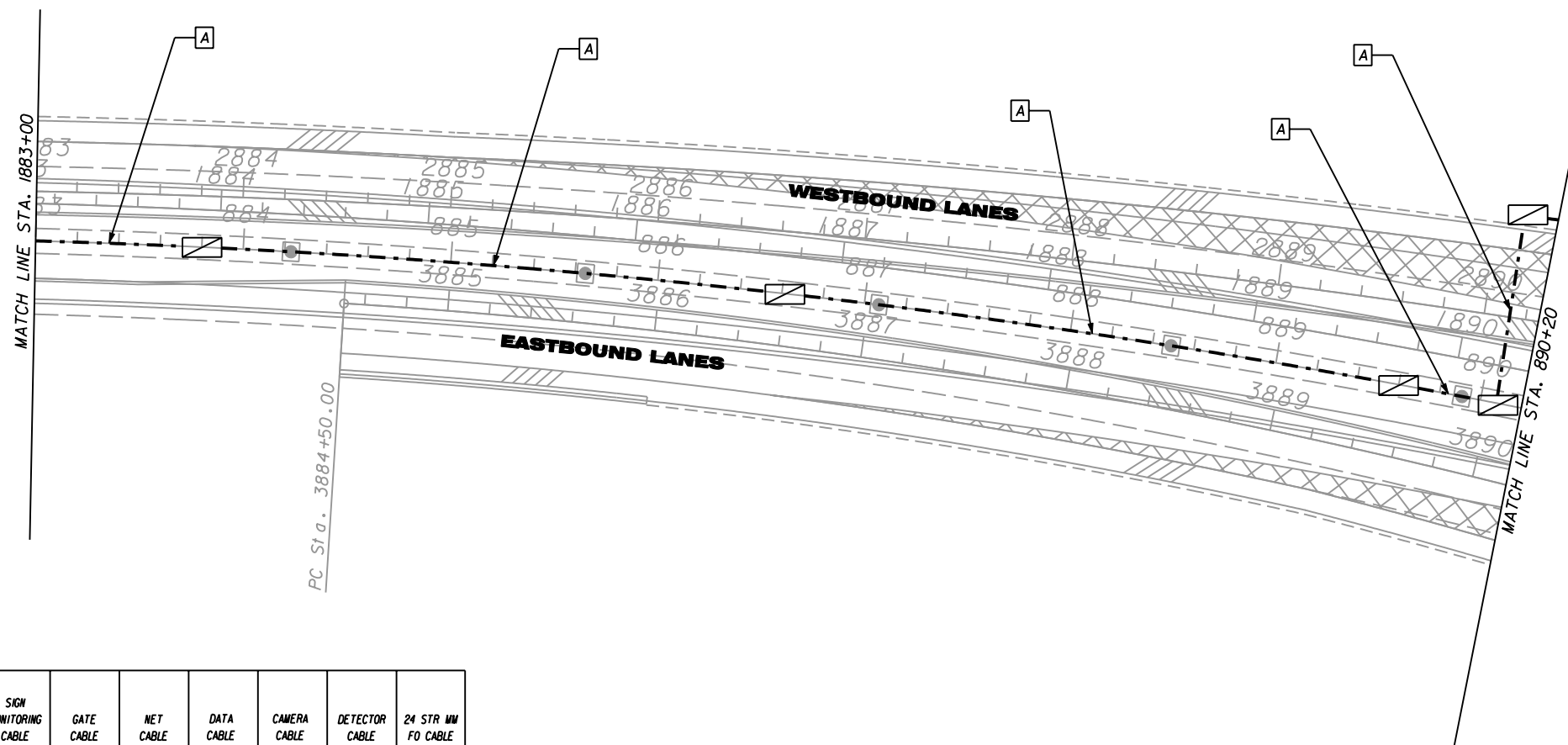
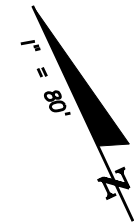
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

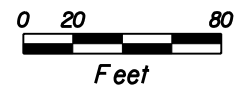
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-32



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	24 STR MM FO CABLE
A				1								1



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

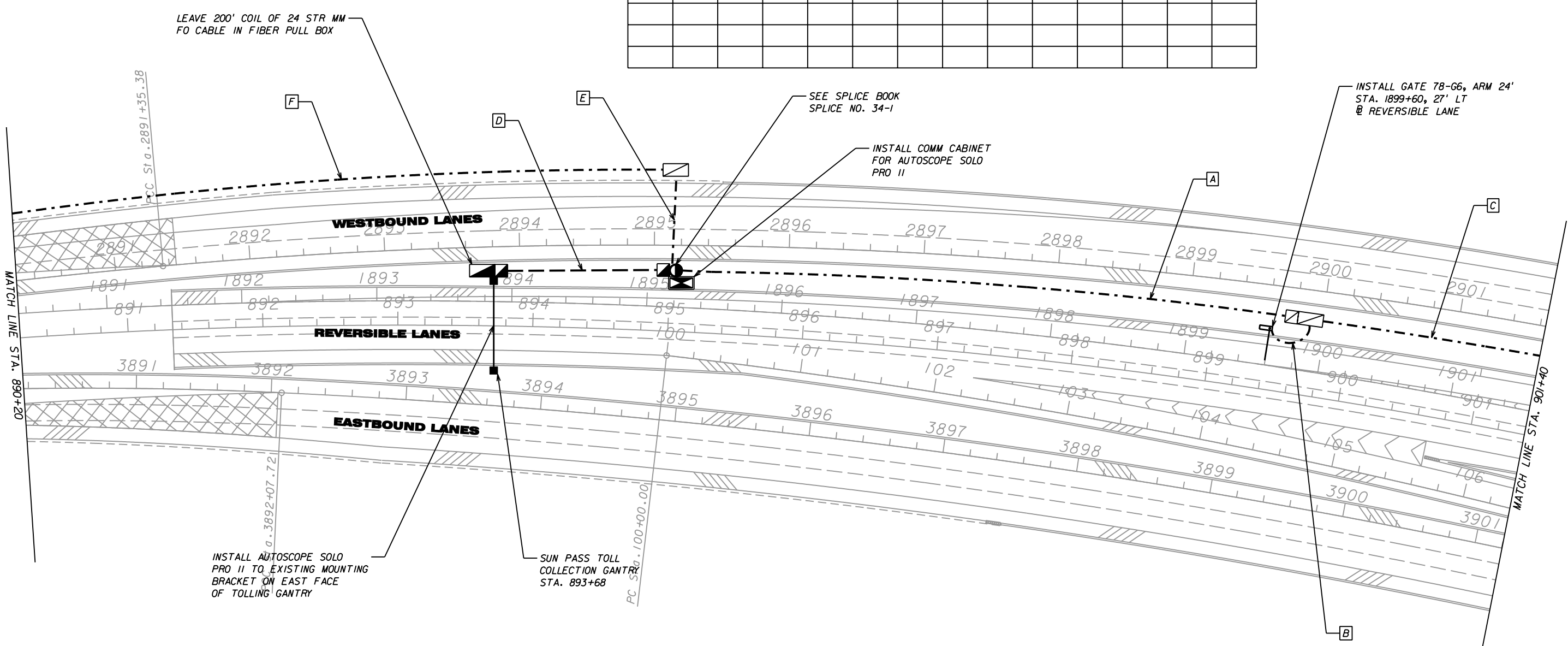
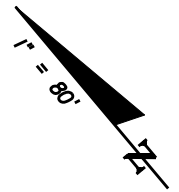
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

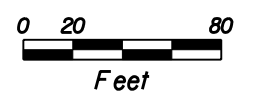
INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-33

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	24 STR MM FO CABLE	SOLO PRO II CABLE
A				1									
B		3-#10					1						
C		3-#2		1			1						
D	2-2"											1	1
E				1								1	



NOTE:
1. SEE DETAIL SHEET D-15 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

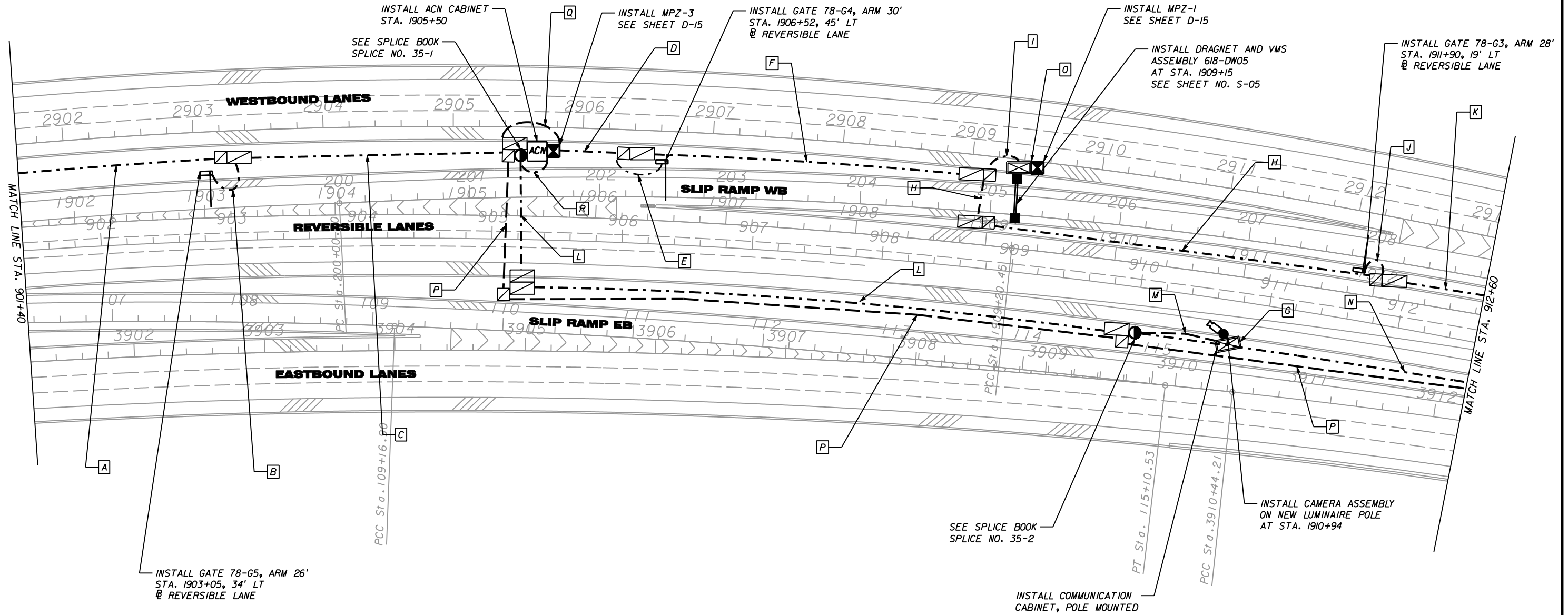
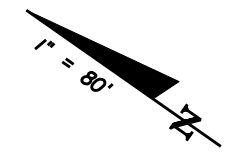
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

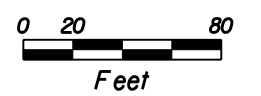
SHEET NO.
I-34

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A		3-#2		1			1				
B		3-#10					1				
C		3-#2		1			2				
D		3-#8S			1	1	4	1	1		
E		3-#10					1				
F		3-#2 3-#8S			1	1	3	1	1		
G										1	
H		3-#2 3-#6					3				
I		3-#6 3-#8S			1	1		1	1		

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
J		3-#10					1				
K		3-#6 3-#2					2				
L		3-#8S		1	1	2			1		
M	2-2"	3-#8S	1						1		
N				1	1	2					
O		3-#8S 3-#8S									
P	1-4"	3-#6 3-#2									
Q	1-2"	3-#6									
R			1								



NOTE:
1. SEE DETAIL SHEET D-15 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

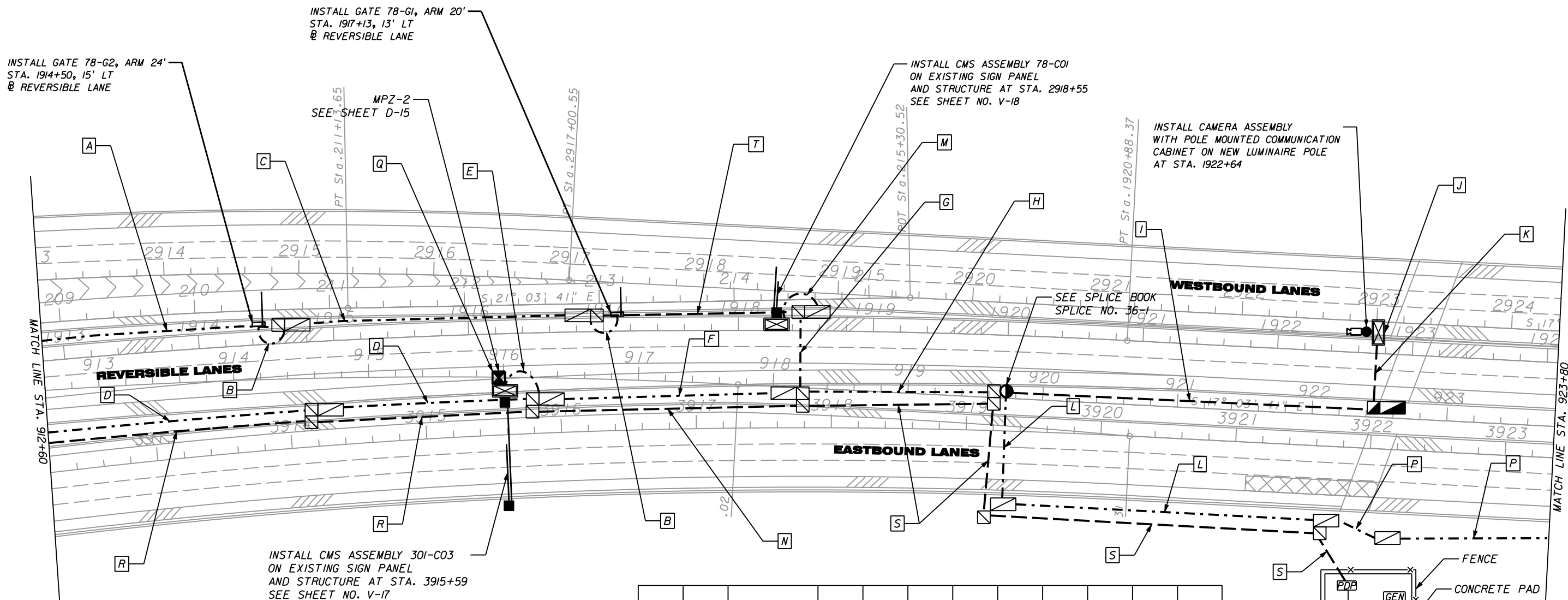
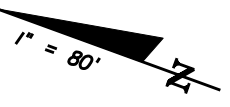
510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

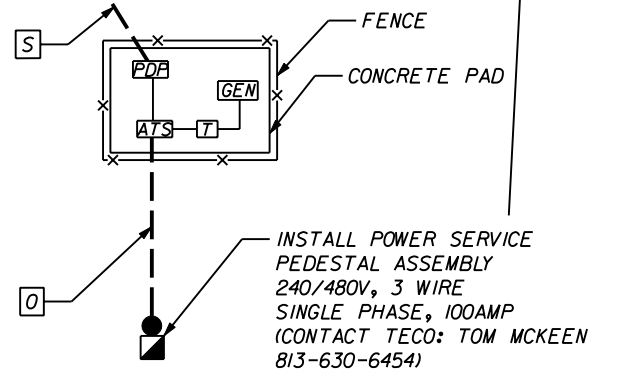
INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO. **I-35**

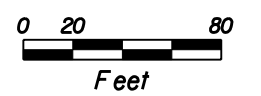


SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A		3-#2 3-#6					2				
B		3-#10					1				
C		3-#2 3-#6					1				
D				1	1	2					
E		3-#8 3-#10S 3-#10S			1	1					
F		3-#10S 3-#10S		1	1	1					
G		3-#10S 3-#2 3-#6			1	1					
H		3-#10S		1							
I	2-2"	3-#10S	1								

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
J										1	
K	2-2"	3-#10S	1								
L				1							
M		3-#10S			1	1					
N	1-4"	3-#6 3-#8 3-#2									
O	1-4"	4-#2									
P				1							
Q		3-#10S									
R	1-4"	3-#6 3-#2									
S	1-4"	6-#6 3-#8 6-#2									
T	1-2"	3-#6 3-#2									



NOTE:
1. SEE DETAIL SHEET D-15 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

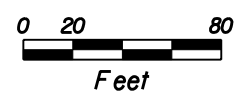
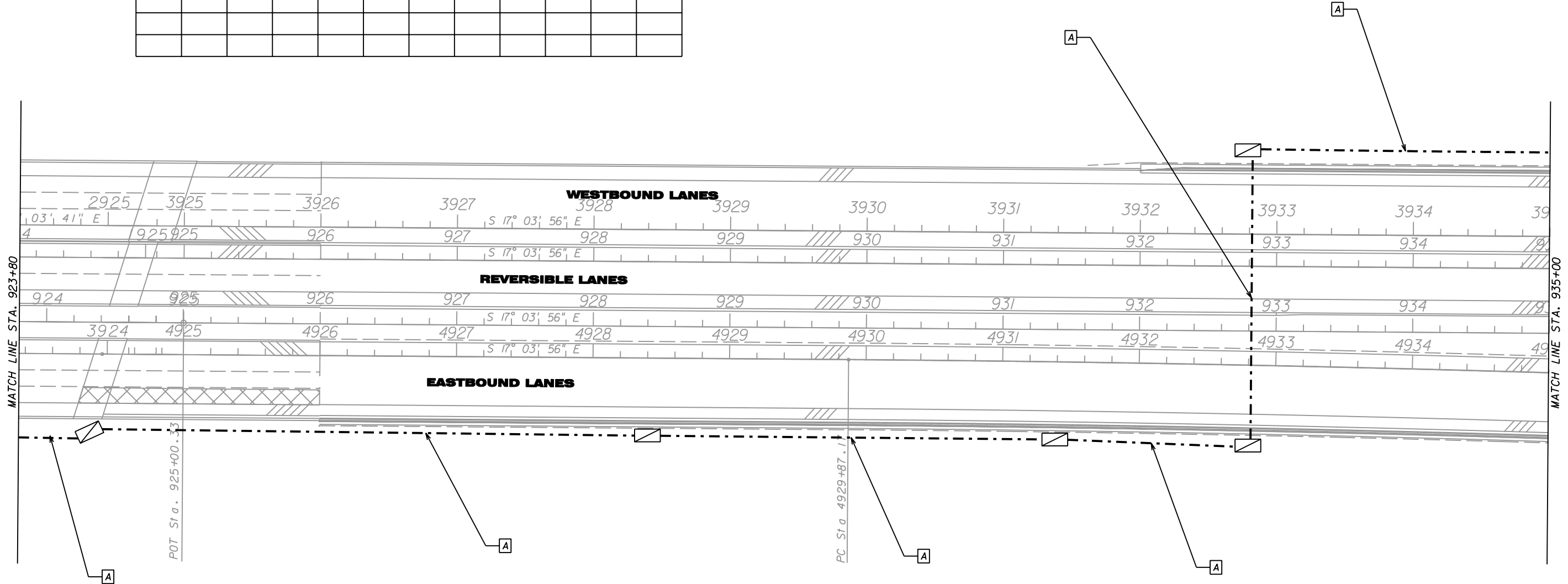
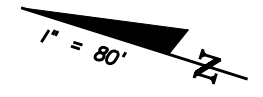
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO. **I-36**

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				I							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

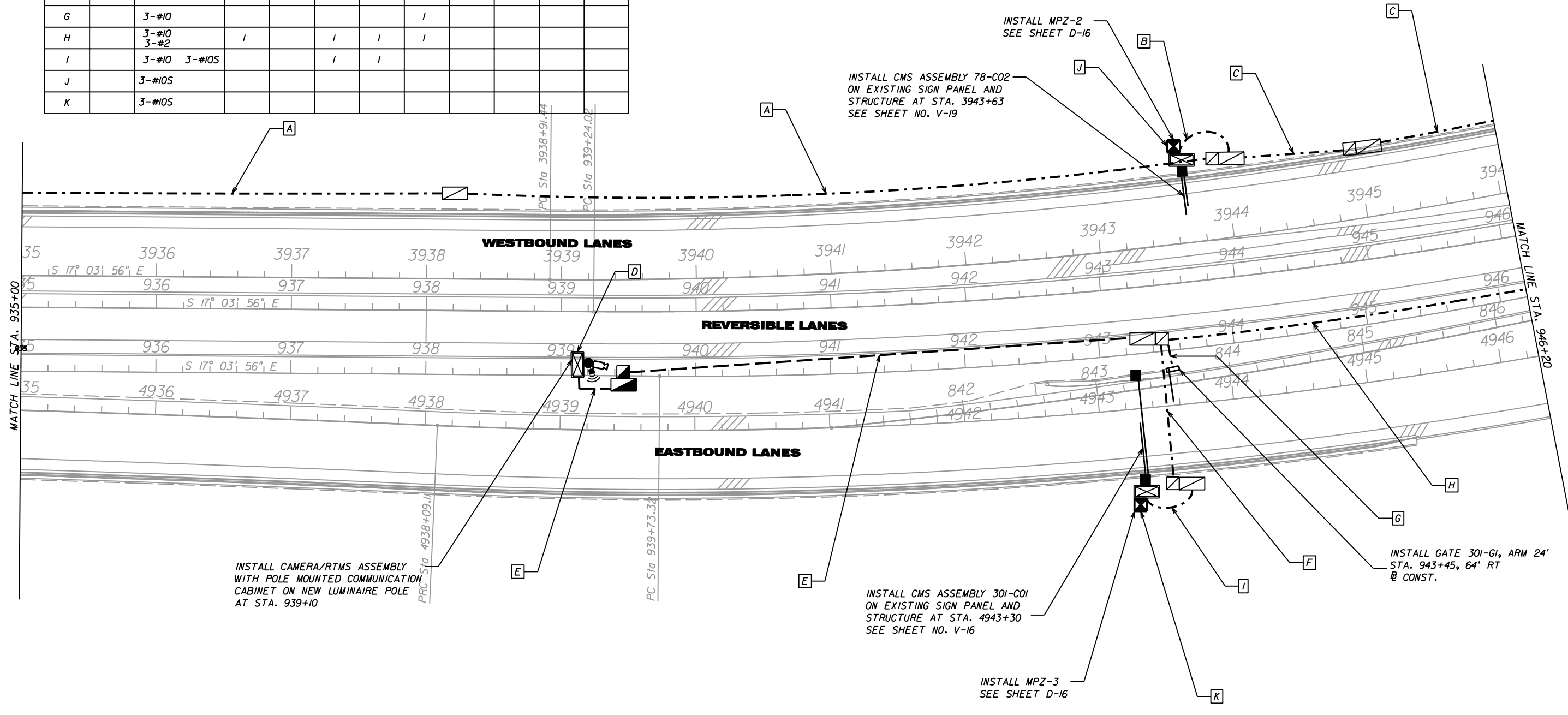
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

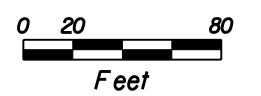
SHEET NO.
I-37



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B		3-#10			1	1					
C		3-#10		1	1	1					
D										1	1
E	2-2"	3-#10S	1								
F		3-#10 3-#10S			1	1					
G		3-#10					1				
H		3-#10 3-#2	1		1	1	1				
I		3-#10 3-#10S			1	1					
J		3-#10S									
K		3-#10S									



NOTE:
1. SEE DETAIL SHEET D-16 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

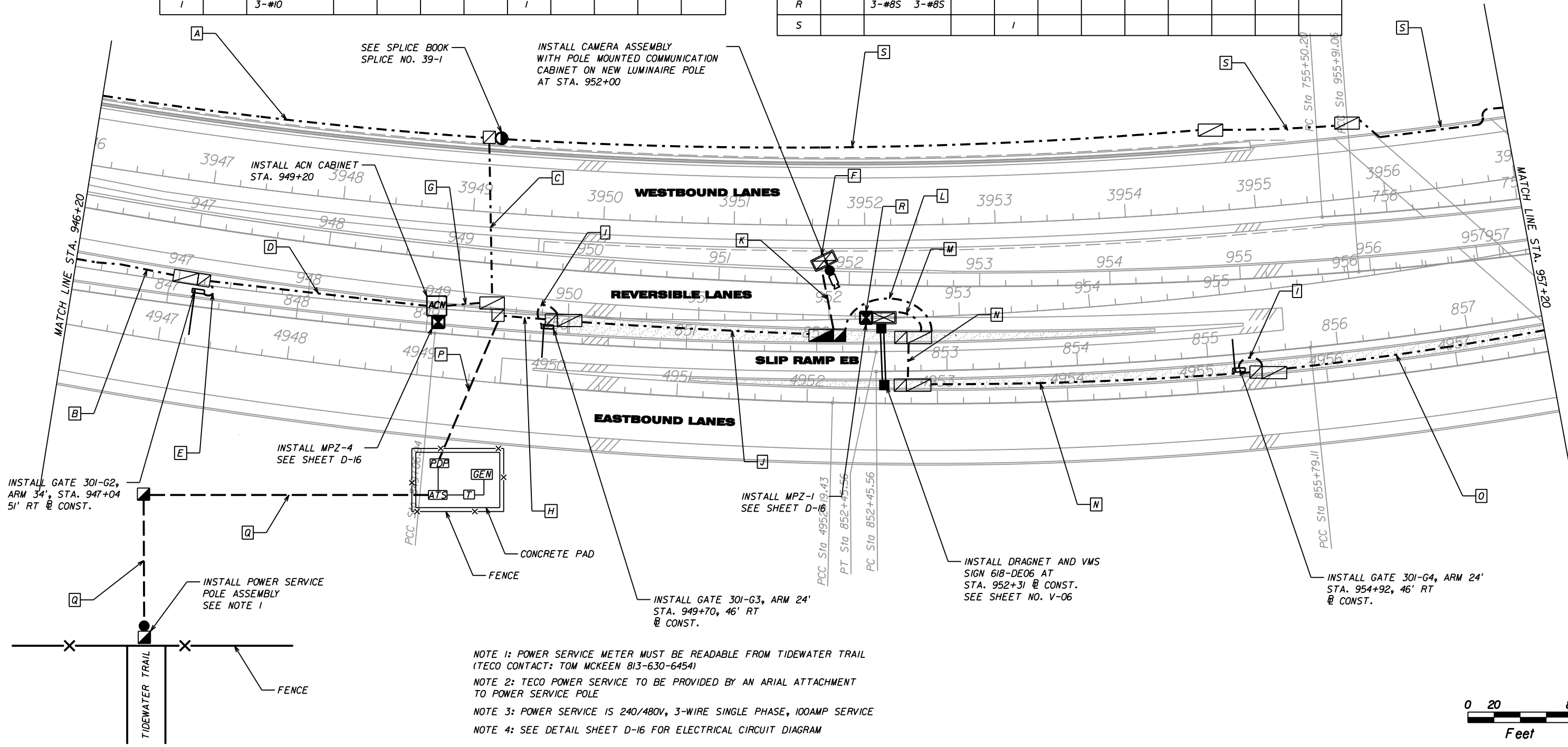
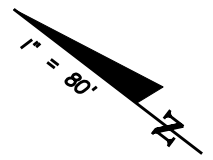
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

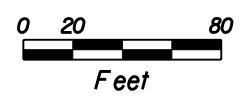
SHEET NO.
I-38

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A		3-#10		1	1	1					
B		3-#10 3-#2	1		1	1	1				
C		3-#10	3		1	1					
D		3-#10 3-#2	1		1	1	2				
E		3-#10					1				
F										1	
G		3-#10 3-#2	2		1	2	4	1			
H		3-#2 3-#4	1		1	1	4	1			
I		3-#10					1				

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
J		3-#2 3-#4	1		1	1	3	1			
K	2-2"	3-#10S	1						1		
L		3-#2 3-#4 3-#10S			1	1	3	1	1		
M		3-#2 3-#10S			1	1		1	1		
N		3-#4						3			
O		3-#4					2				
P	1-4"	3-#2 3-#10 3-#10 3-#4 3-#2 3-#10									
Q	1-4"	4-#2									
R		3-#8S 3-#8S									
S				1							



- NOTE 1: POWER SERVICE METER MUST BE READABLE FROM TIDEWATER TRAIL (TECO CONTACT: TOM MCKEEN 813-630-6454)
- NOTE 2: TECO POWER SERVICE TO BE PROVIDED BY AN ARIAL ATTACHMENT TO POWER SERVICE POLE
- NOTE 3: POWER SERVICE IS 240/480V, 3-WIRE SINGLE PHASE, 100AMP SERVICE
- NOTE 4: SEE DETAIL SHEET D-16 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

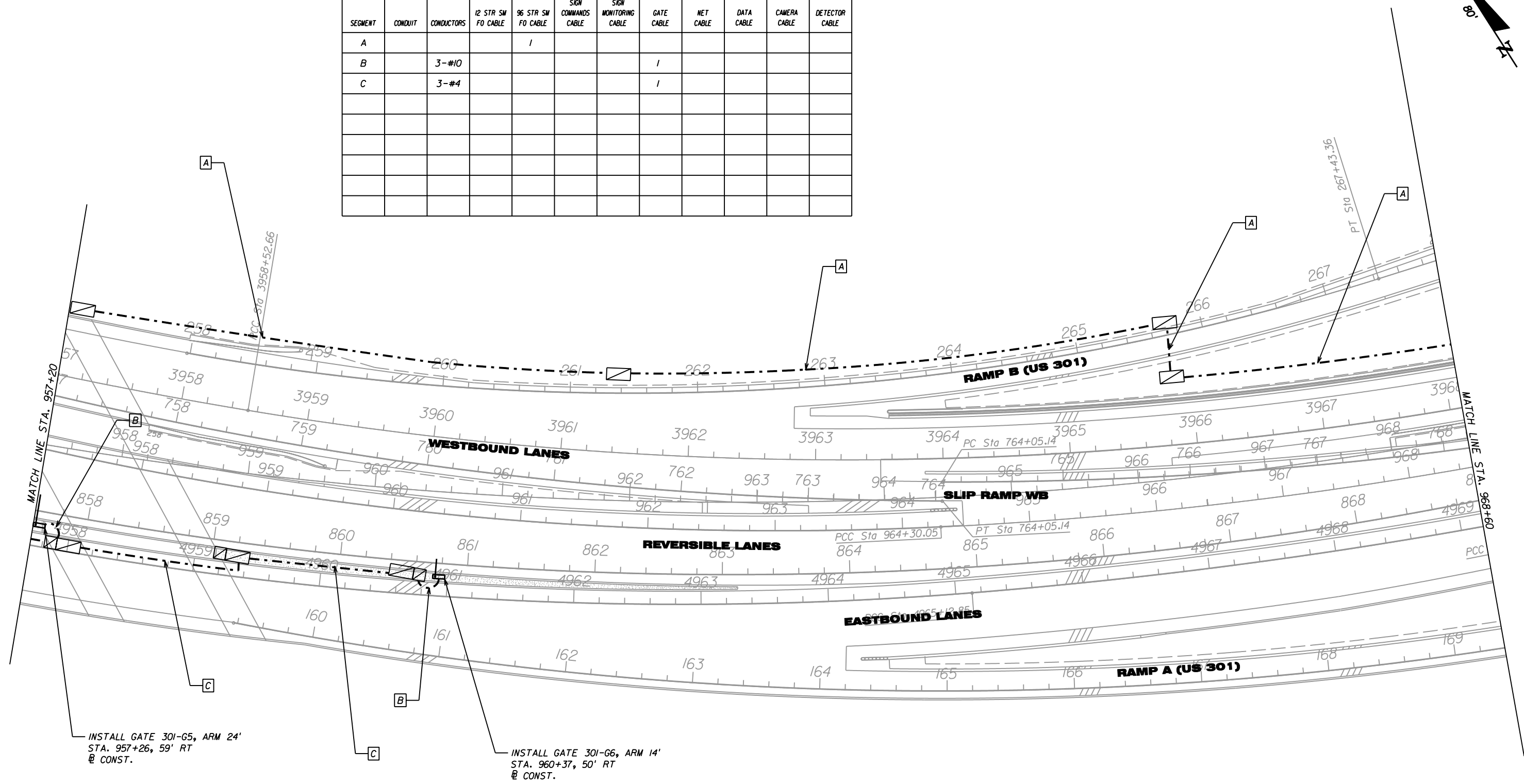
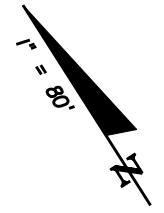
510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

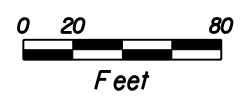
INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-39

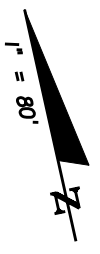
SEGMENT	CONDUIT	CONDUCTORS	12 STR SW FO CABLE	96 STR SW FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B		3-#10					1				
C		3-#4					1				



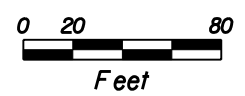
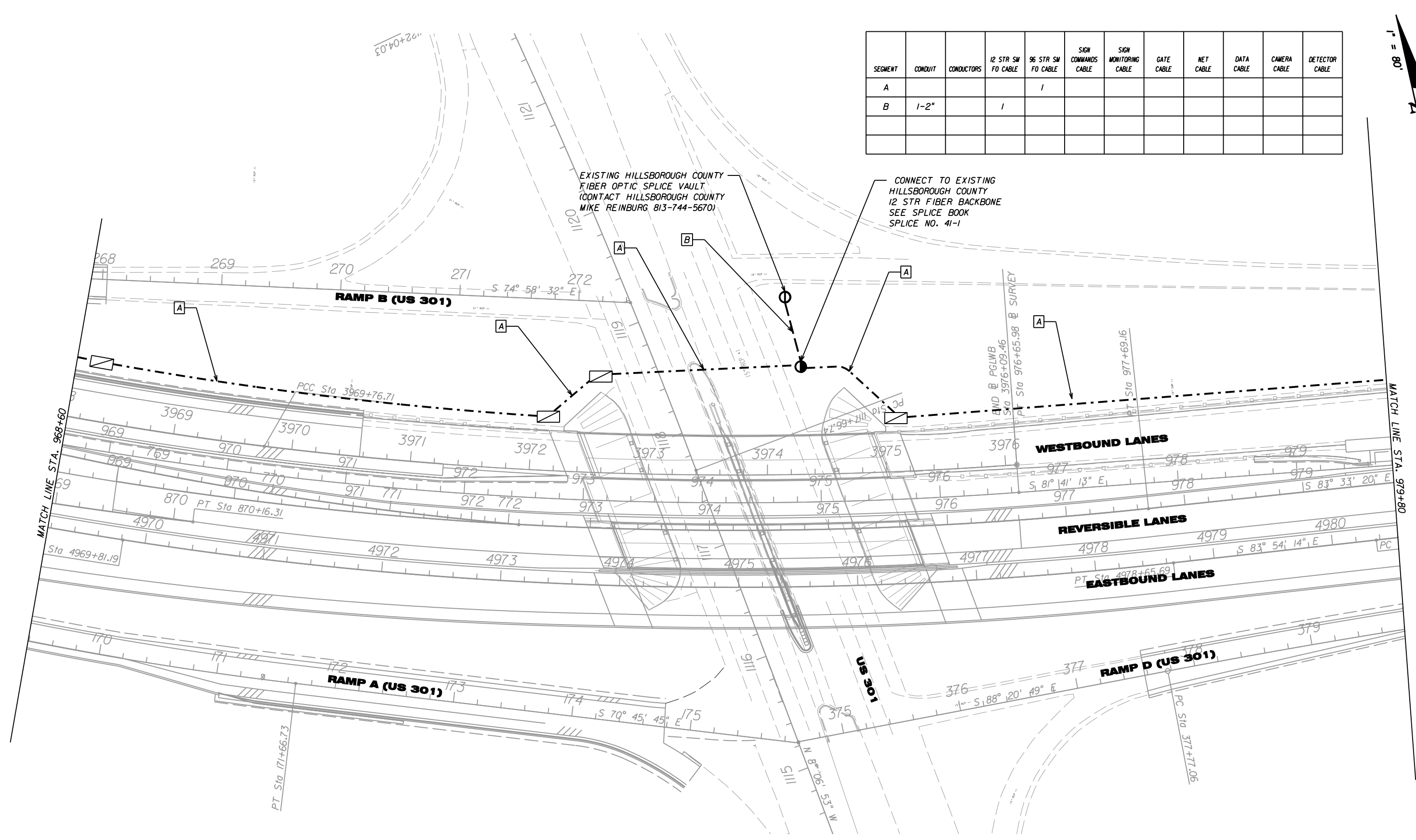
NOTE:
1. SEE DETAIL SHEET D-16 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES 510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY ROAD NO. COUNTY FINANCIAL PROJECT ID S.R. 618 HILLSBOROUGH 53.41.01			INTELLIGENT TRANSPORTATION SYSTEM PLAN SHEET NO. I-40
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					



SEGMENT	CONDUIT	CONDUCTORS	12 STR FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B	1-2"		1								



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

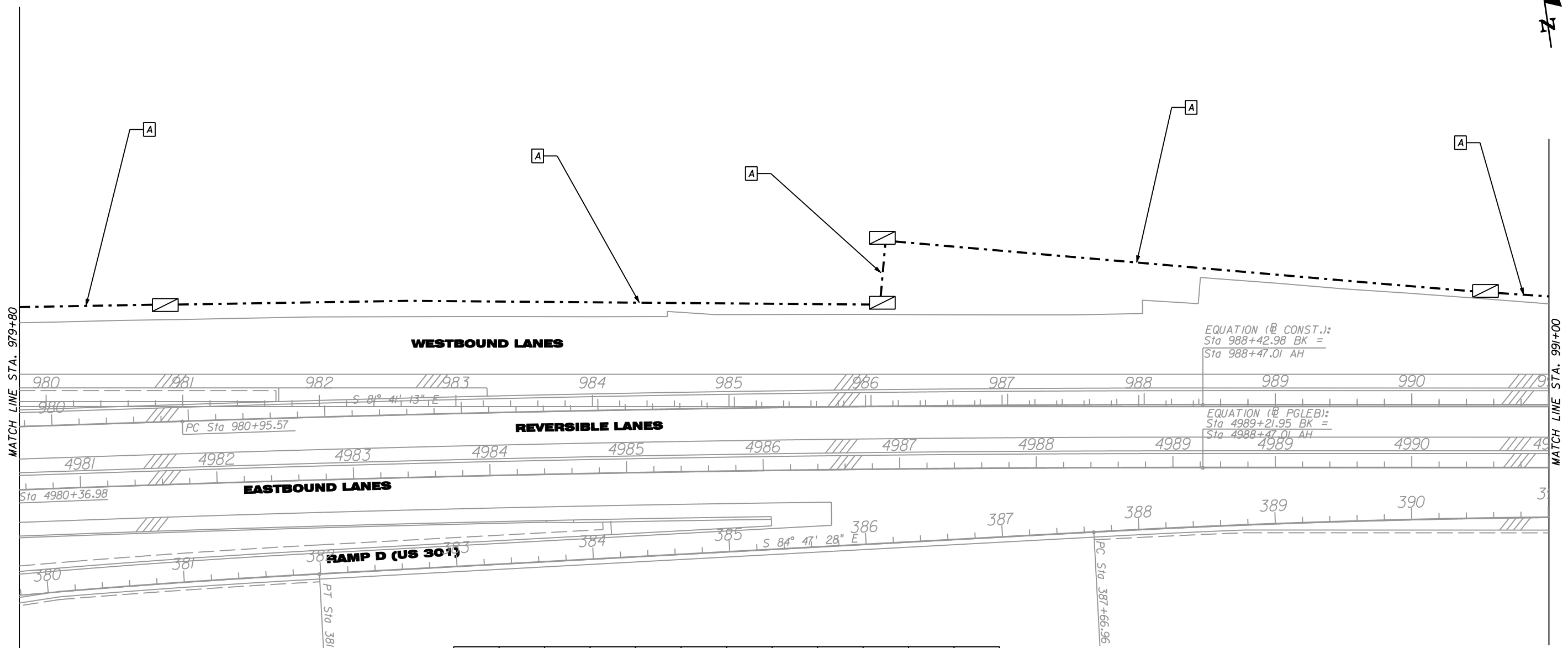
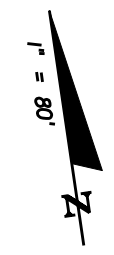
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
18131 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

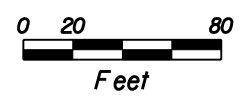
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-41



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

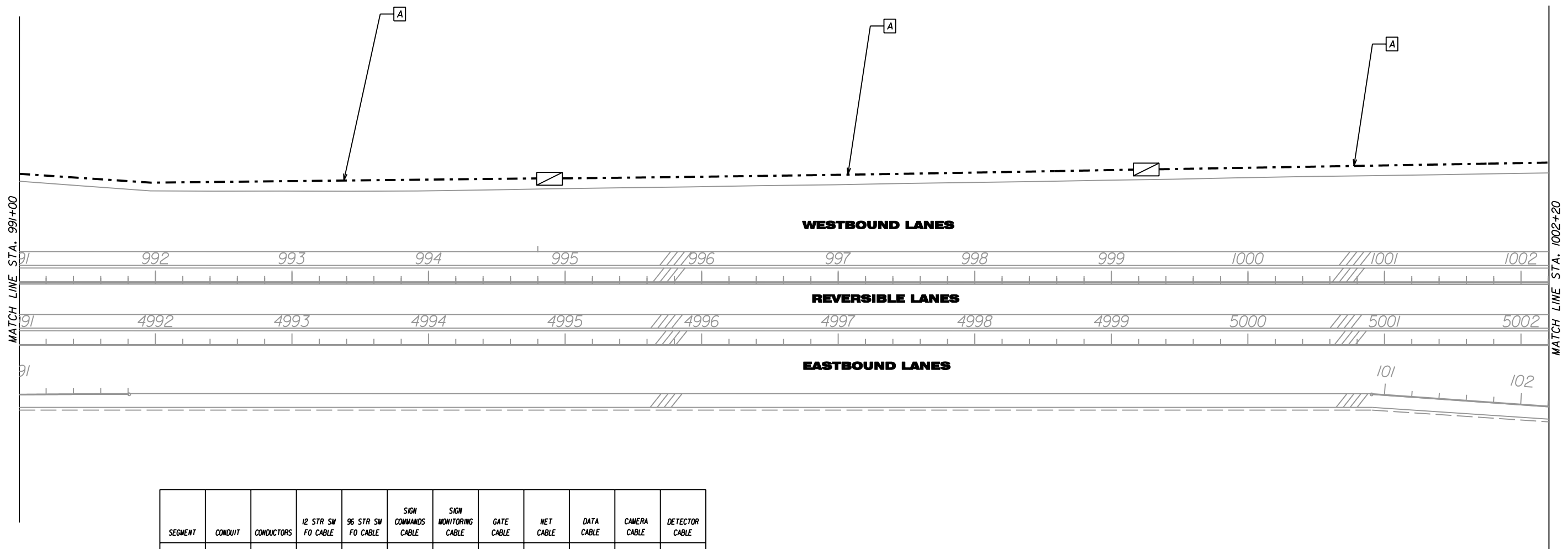
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

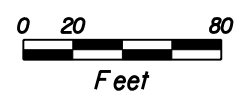
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-42



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

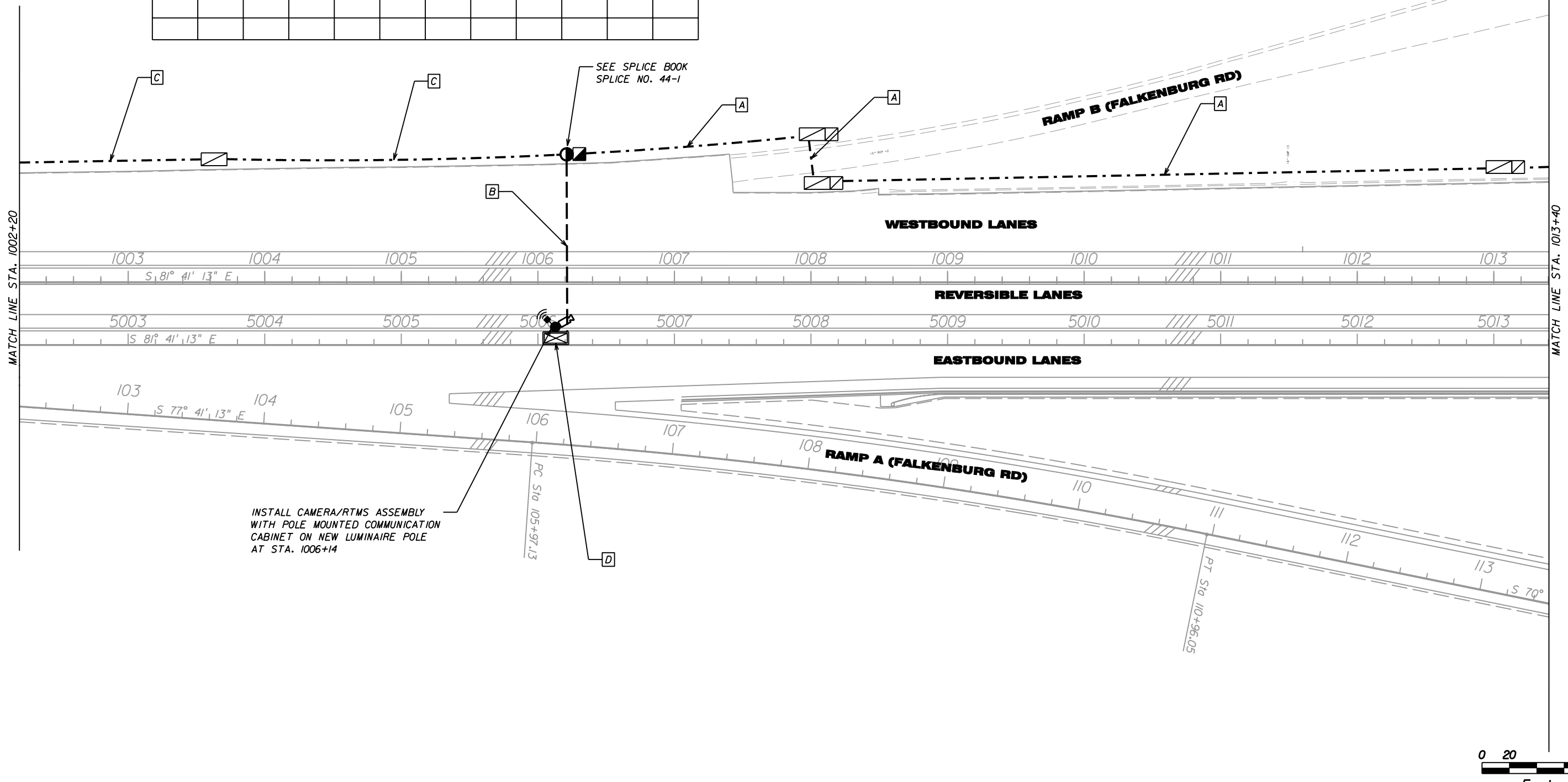
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-43

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A		3-#8		1							
B	2-2"	3-#8	1								
C				1						1	1
D											



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

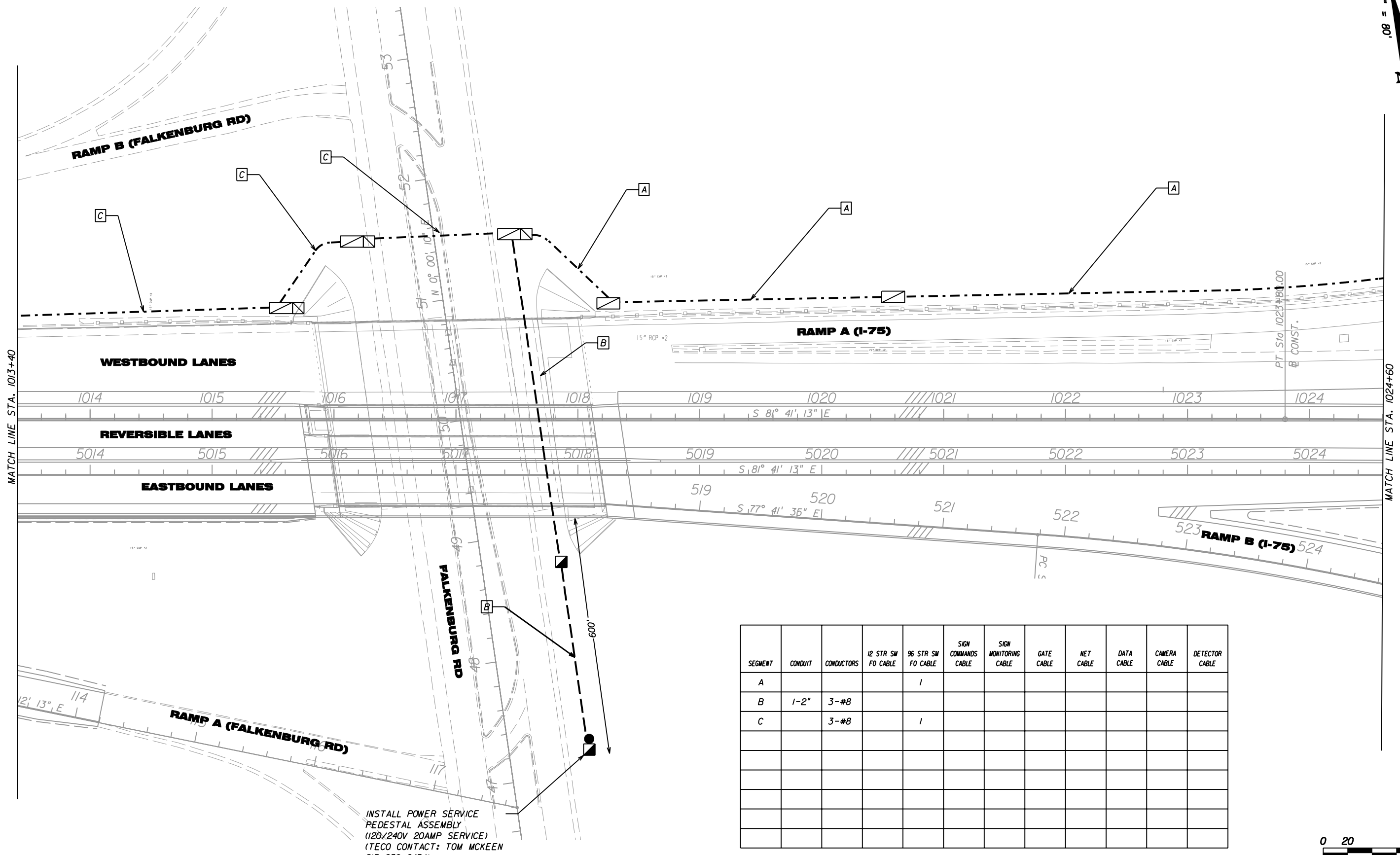
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

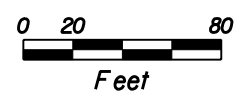
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.
I-44



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							
B	1-2"	3-#8									
C		3-#8		1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

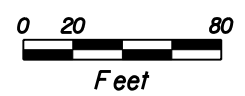
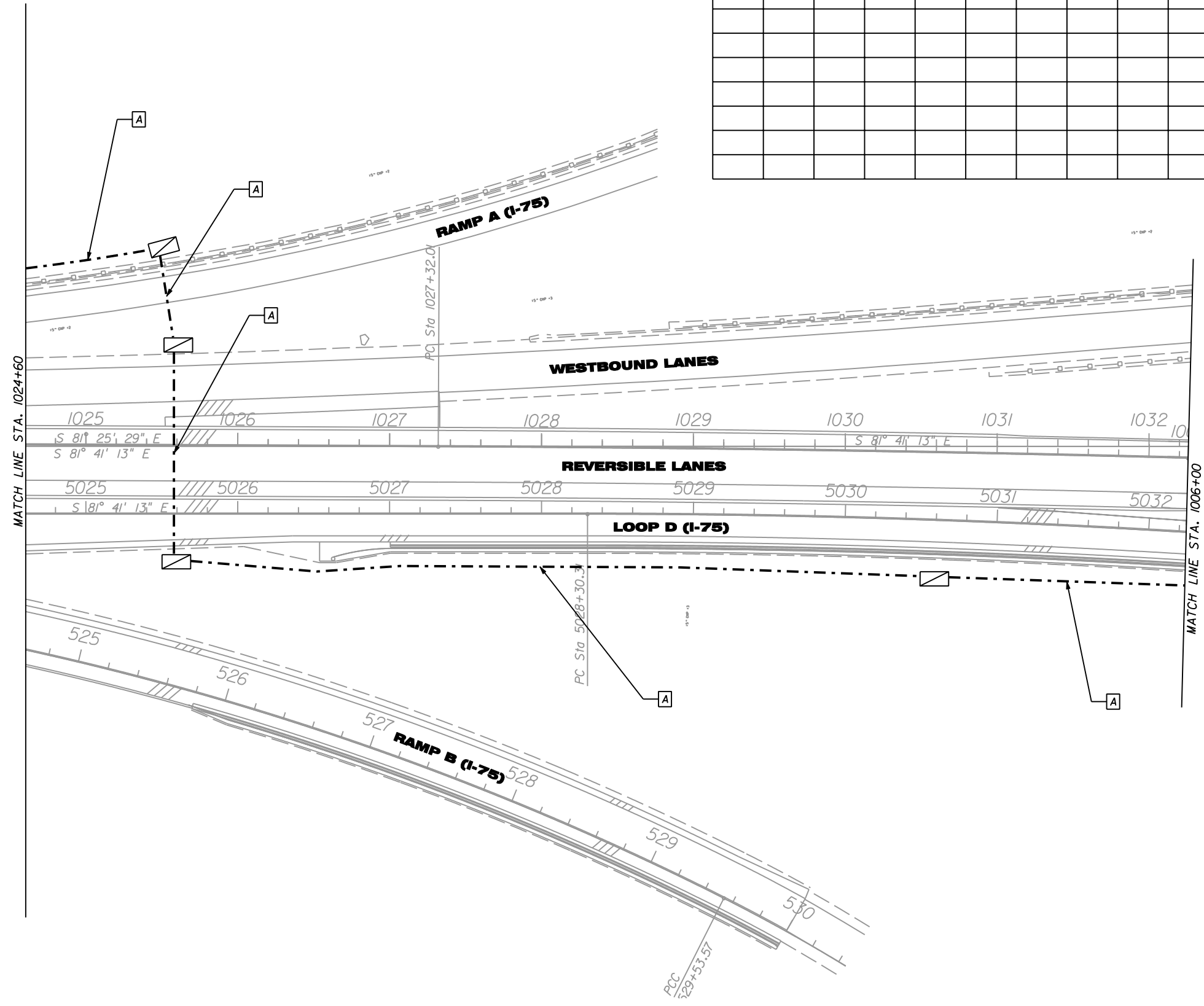
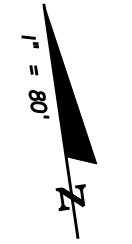
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

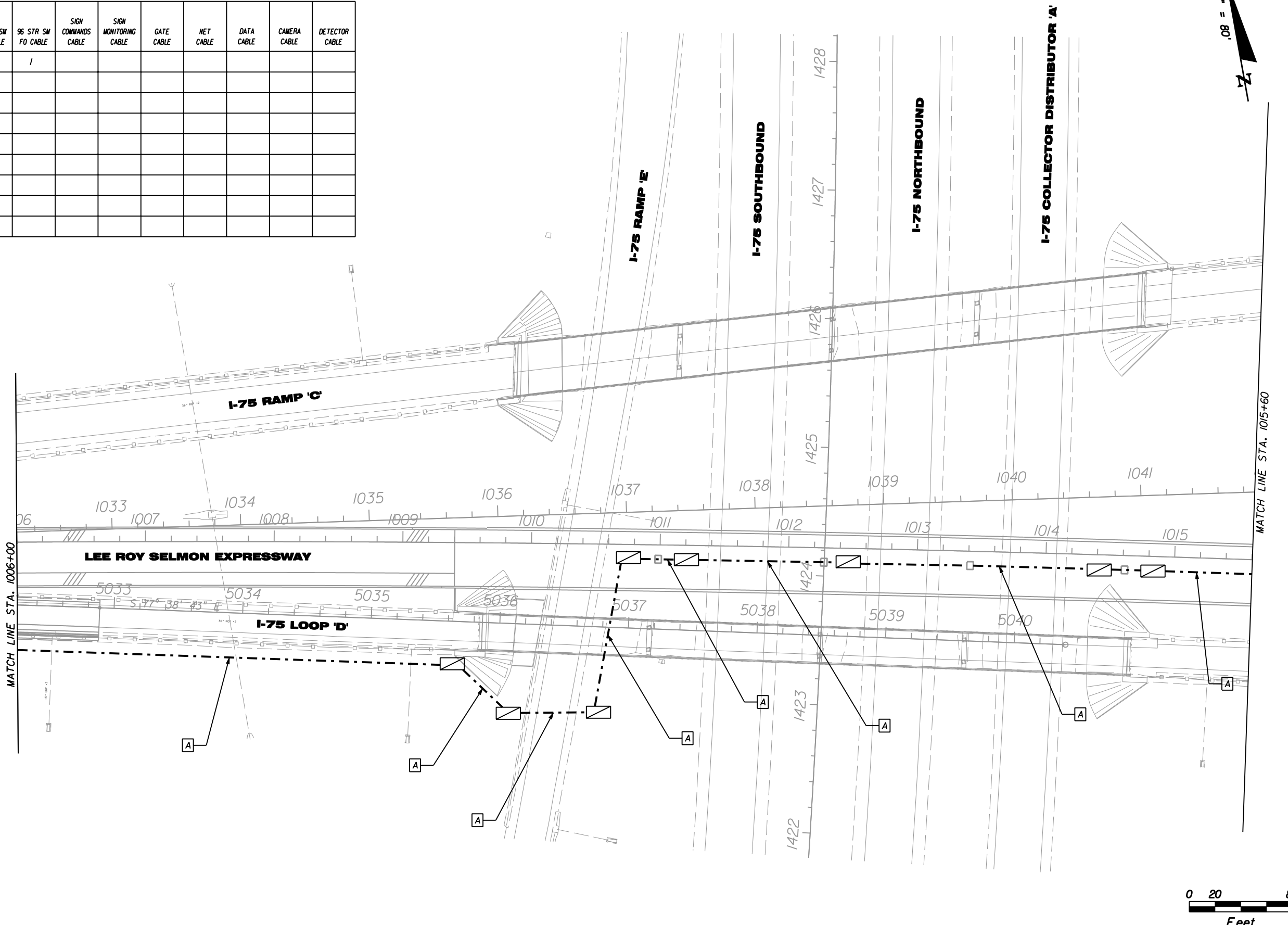
SHEET NO.
I-45

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS								TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			INTELLIGENT TRANSPORTATION SYSTEM PLAN		SHEET NO. I-46
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
							S.R. 618	HILLSBOROUGH	53.41.01				

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

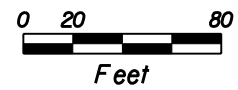
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

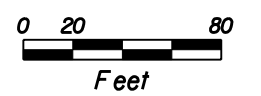
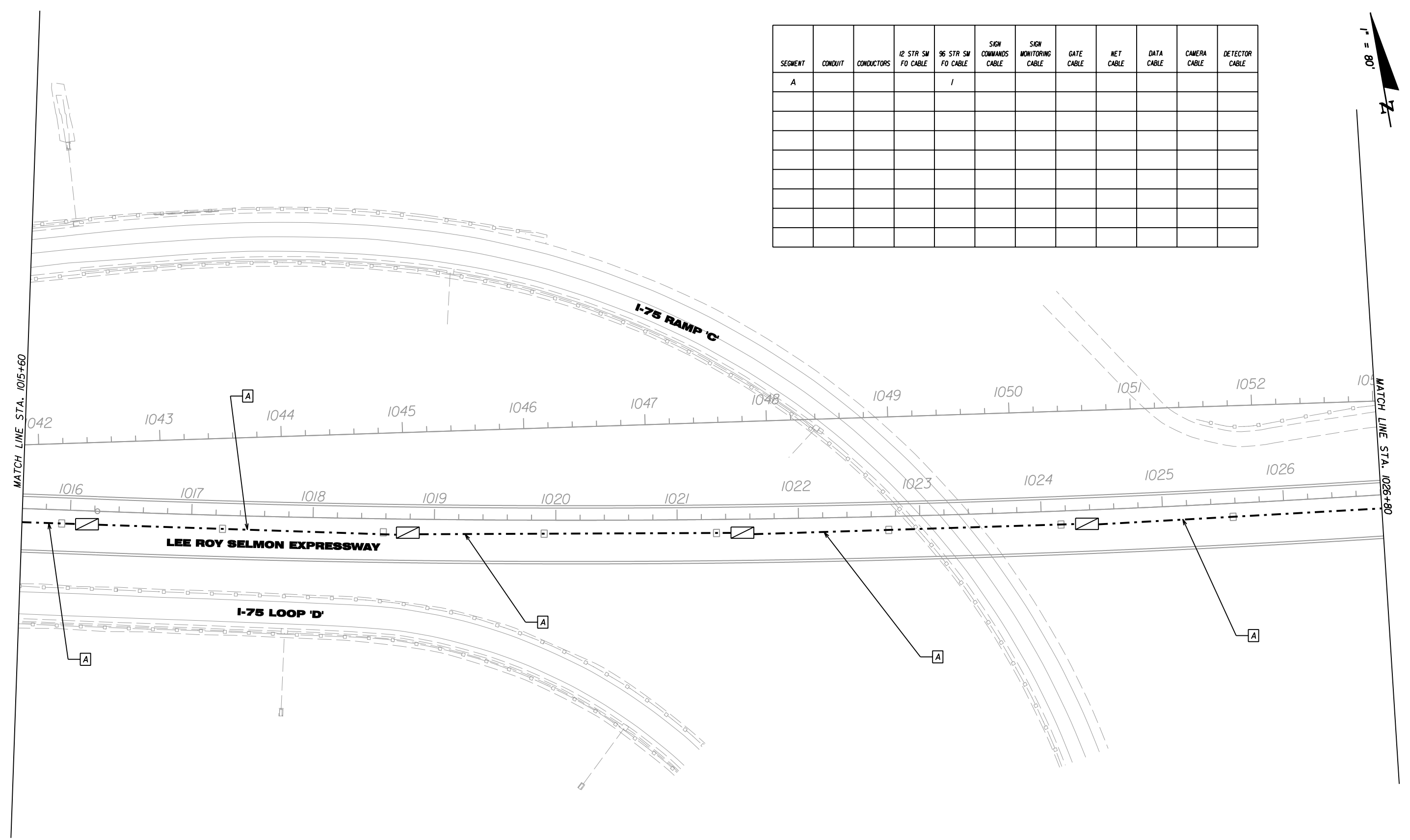
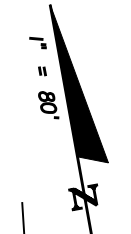
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-47



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

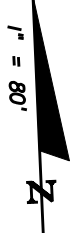
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

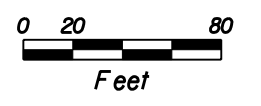
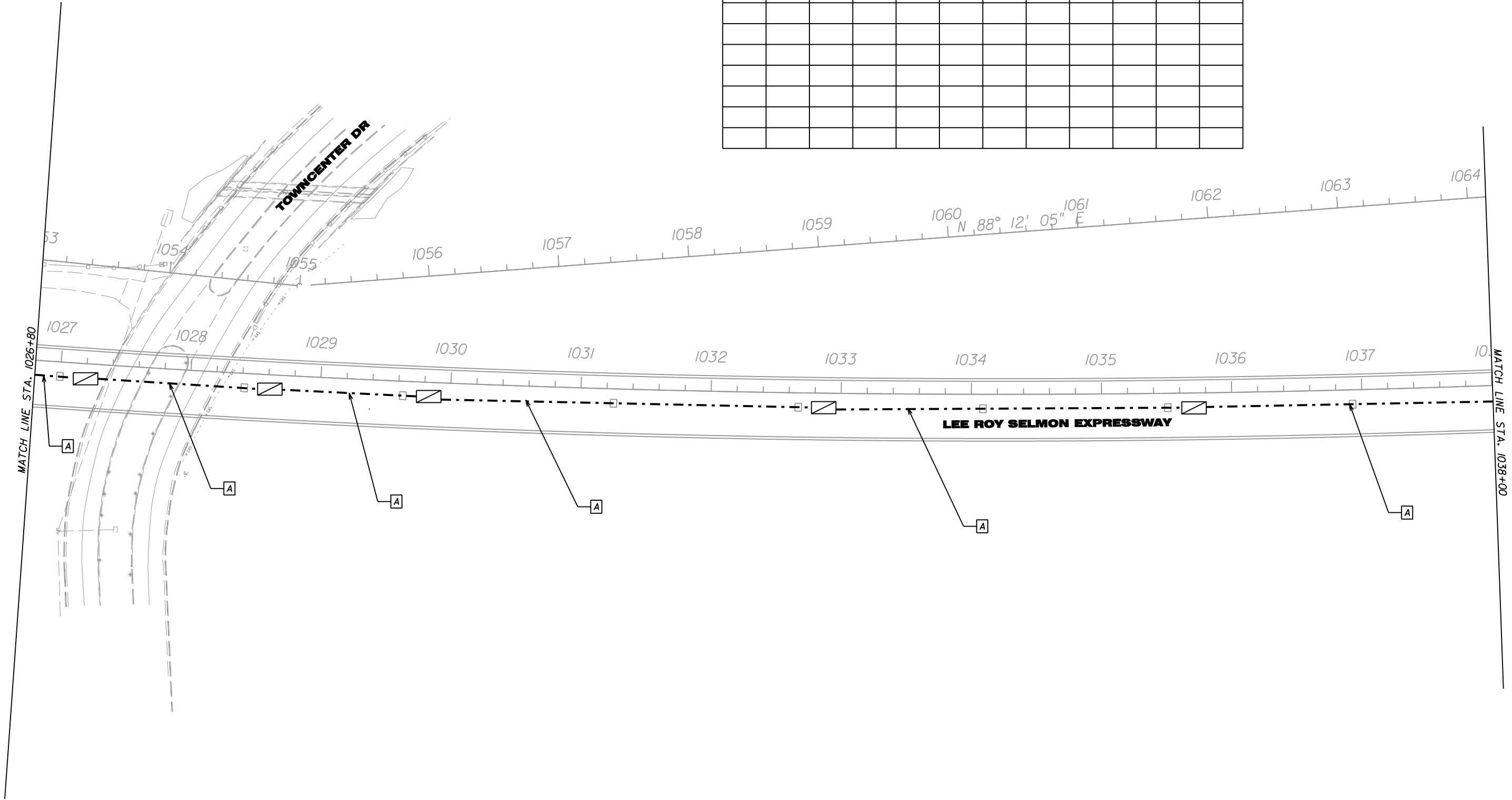
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN


SHEET NO.
I-48



SEGMENT	CONDUIT	CONDUCTORS	12 STR SW FO CABLE	96 STR SW FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A				1							



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

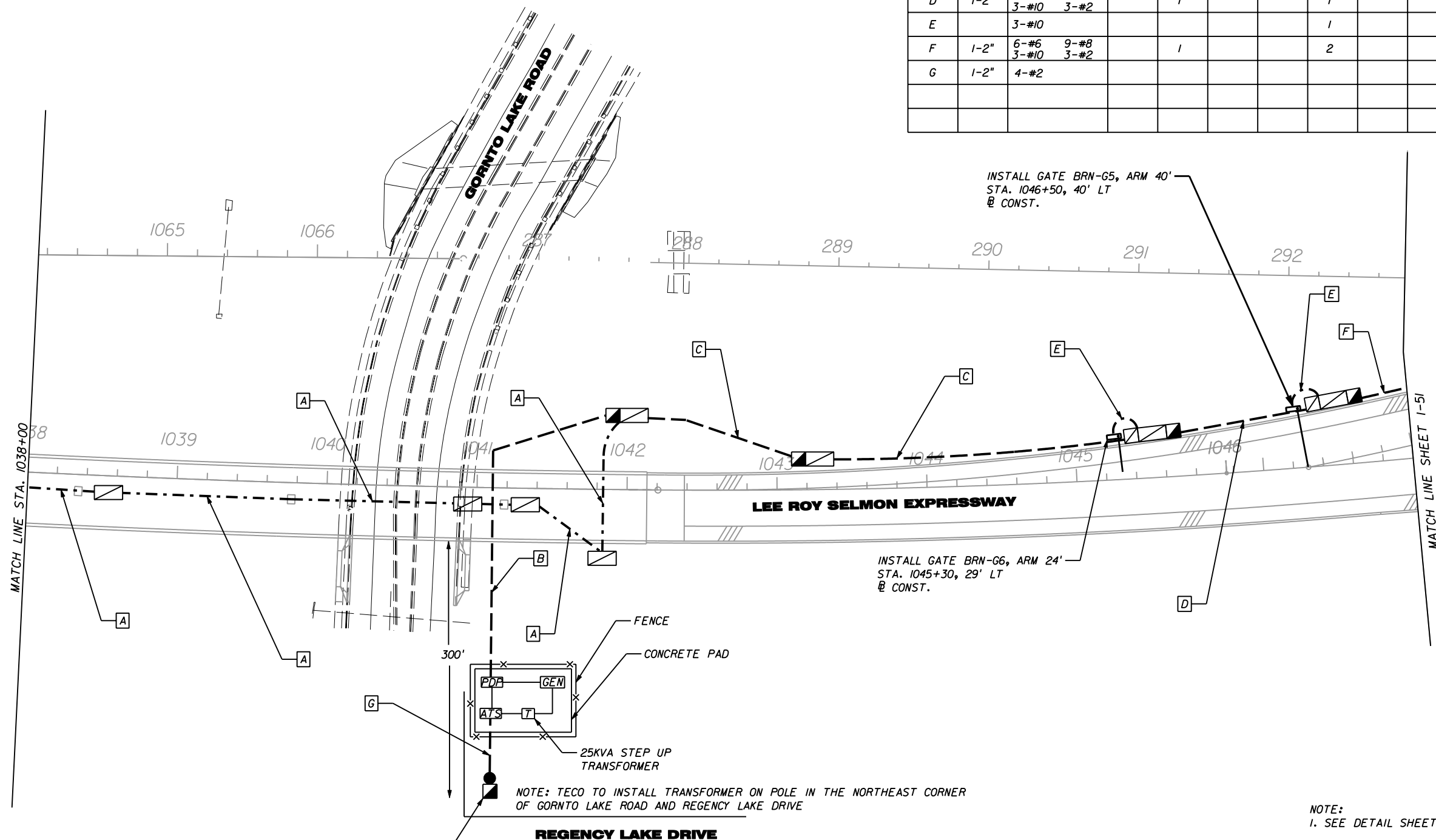
**TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

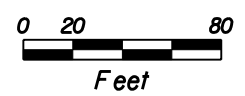
SHEET
NO.
I-49

SEGMENT	CONDUIT	CONDUCTORS		12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					1							
B	1-2"	6-#6	9-#8									
C	1-2"	3-#10	3-#2									
D	1-2"	6-#6	9-#8		1			1				
E		3-#10						1				
F	1-2"	6-#6	9-#8		1			2				
G	1-2"	4-#2										



INSTALL POWER SERVICE PEDESTAL ASSEMBLY
 240/480V 3-WIRE
 SINGLE PHASE, 100 AMP
 (TECO CONTACT: TOM MCKEEN
 813-630-6454)

NOTE:
 1. SEE DETAIL SHEET D-17 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

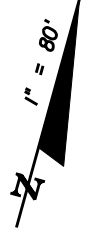
HNTB ARCHITECTS ENGINEERS PLANNERS
 The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

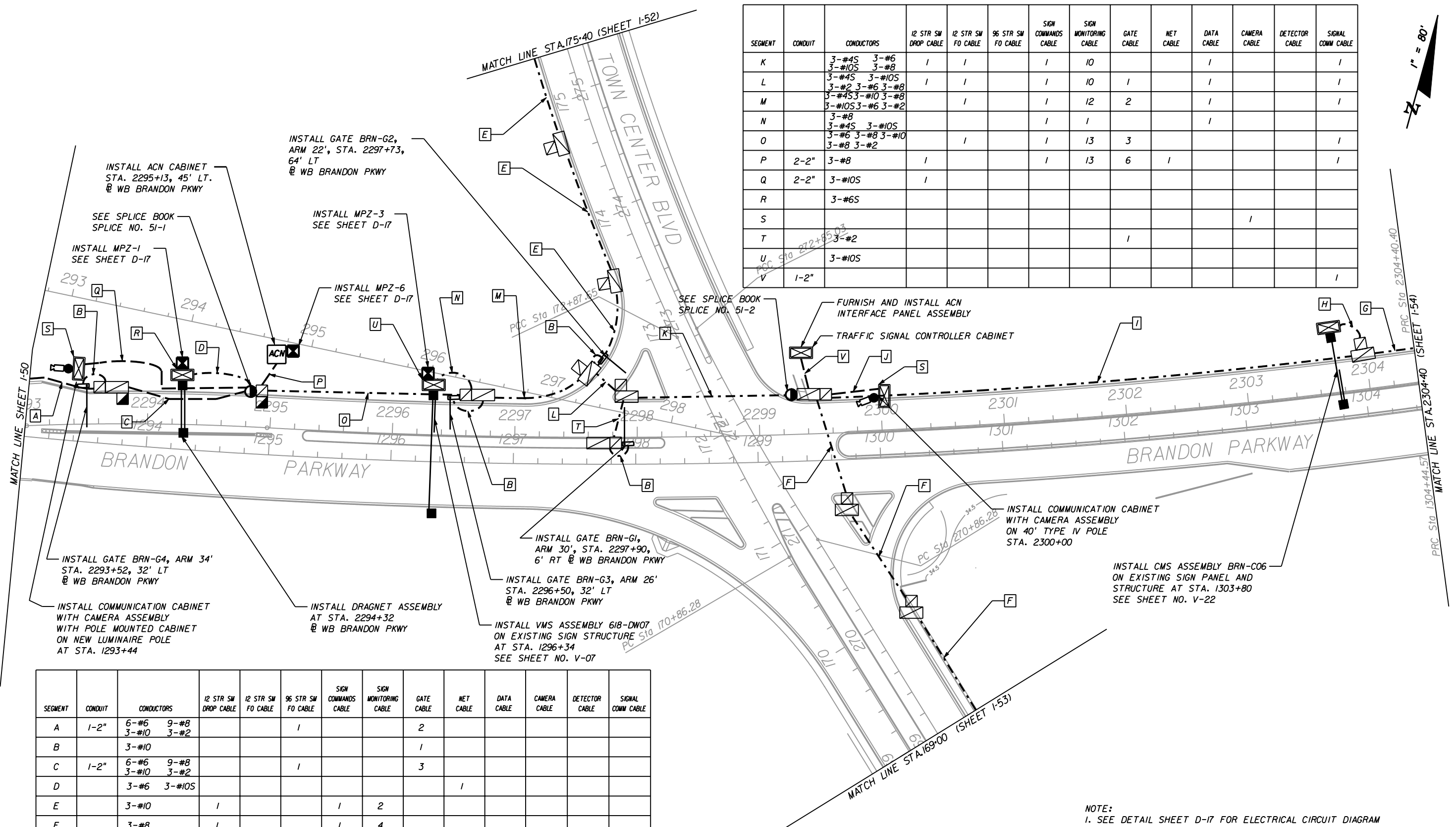
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-50

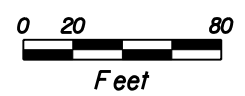


SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	SIGNAL COMM CABLE
K		3-#4S 3-#6 3-#10S 3-#8	1	1		1	10			1			1
L		3-#4S 3-#10S 3-#2 3-#6 3-#8	1	1		1	10	1		1			1
M		3-#4S 3-#10 3-#8 3-#10S 3-#6 3-#2		1		1	12	2		1			1
N		3-#8 3-#4S 3-#10S				1	1			1			
O		3-#6 3-#8 3-#10 3-#8 3-#2		1		1	13	3					1
P	2-2"	3-#8	1		3-#8	1	13	6	1				1
Q	2-2"	3-#10S	1										
R		3-#6S									1		
S													
T		3-#2						1					
U		3-#10S											
V	1-2"												1



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE	SIGNAL COMM CABLE
A	1-2"	6-#6 9-#8 3-#10 3-#2			1			2					
B		3-#10						1					
C	1-2"	6-#6 9-#8 3-#10 3-#2			1			3					
D		3-#6 3-#10S							1				
E		3-#10	1			1	2						
F		3-#8	1			1	4						
G		3-#6		1		1	5						
H		3-#4S				1	1						
I		3-#4S 3-#6		1		1	6						
J	2-2"	3-#10S	1							1			

NOTE:
1. SEE DETAIL SHEET D-17 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

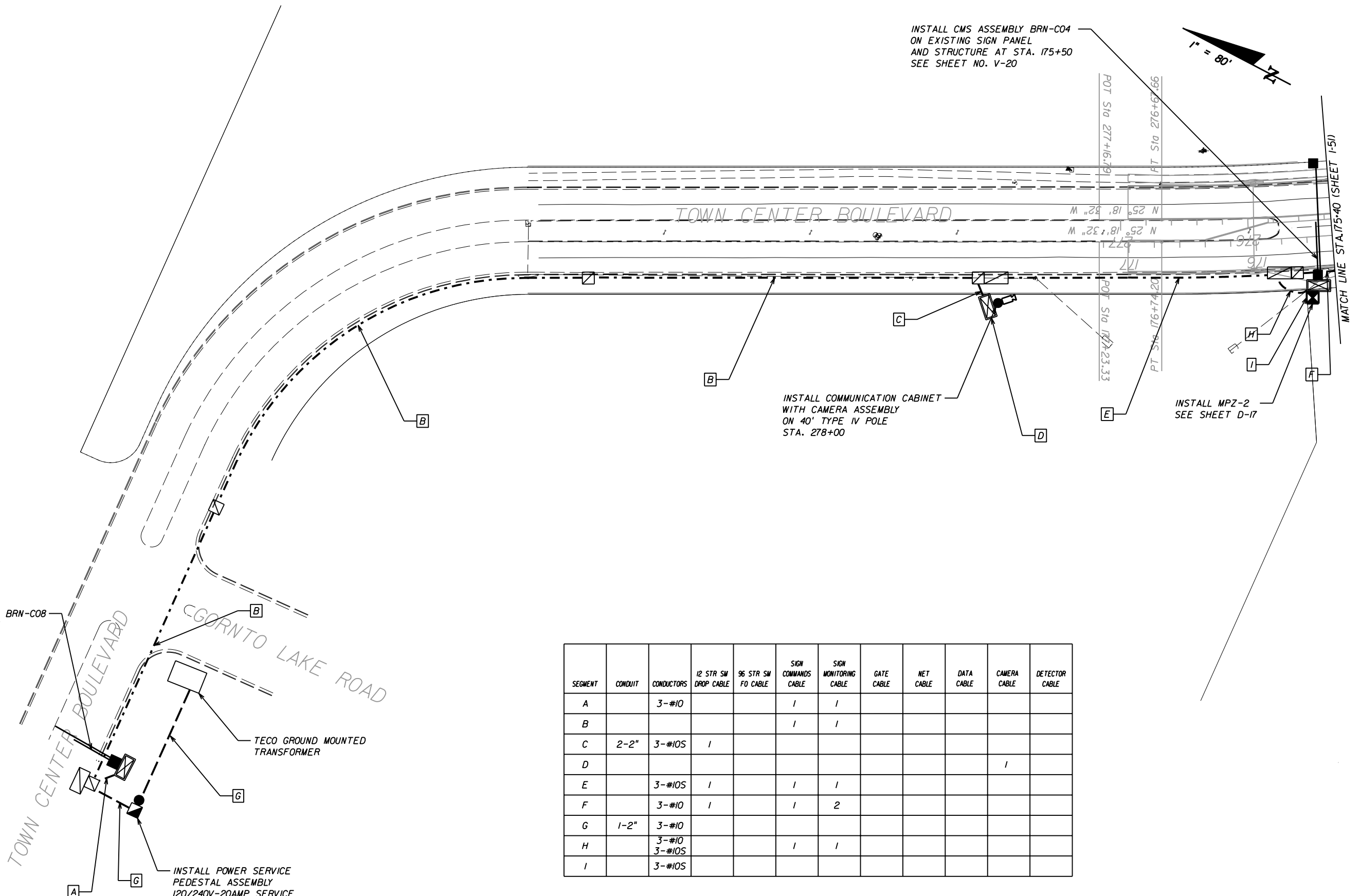
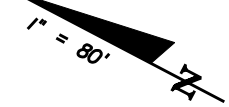
510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-51

INSTALL CMS ASSEMBLY BRN-C04
ON EXISTING SIGN PANEL
AND STRUCTURE AT STA. 175+50
SEE SHEET NO. V-20



INSTALL COMMUNICATION CABINET
WITH CAMERA ASSEMBLY
ON 40' TYPE IV POLE
STA. 278+00

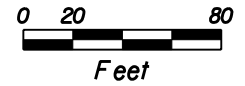
INSTALL MPZ-2
SEE SHEET D-17

INSTALL CMS ASSEMBLY BRN-C08
120' N OF NORTH EDGE
OF GORNITO LAKE RD
SEE SHEET NO. V-24

INSTALL POWER SERVICE
PEDESTAL ASSEMBLY
120/240V-20AMP SERVICE
(TECO CONTACT: TOM MCKEEN
813-630-6454)

SEGMENT	CONDUIT	CONDUCTORS	12 STR SW DROP CABLE	96 STR SW FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A		3-#10			1	1					
B					1	1					
C	2-2"	3-#10S	1								
D										1	
E		3-#10S	1		1	1					
F		3-#10	1		1	2					
G	1-2"	3-#10									
H		3-#10			1	1					
I		3-#10S									

NOTE:
1. SEE DETAIL SHEET D-17 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

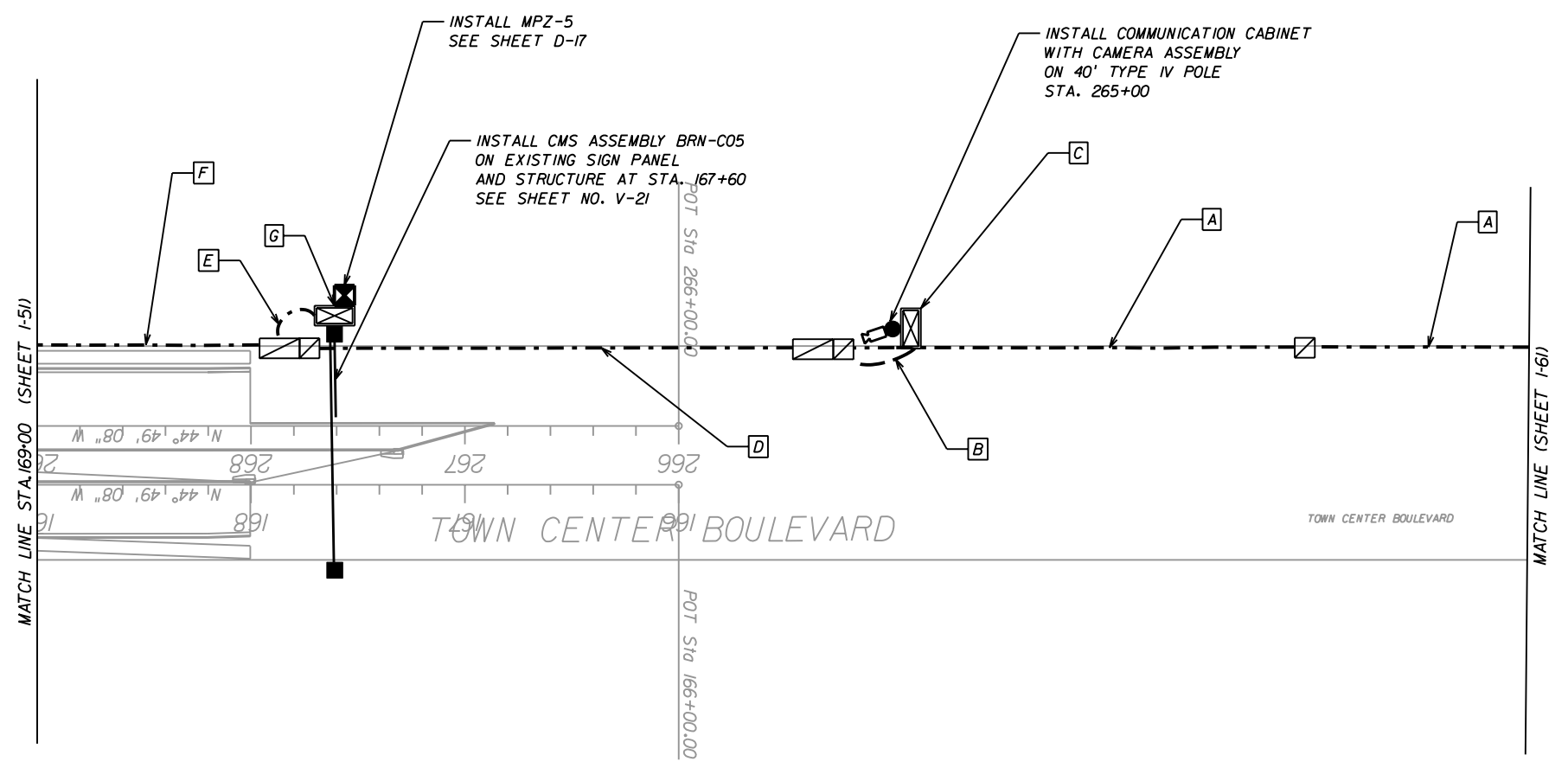
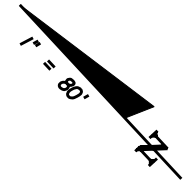
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

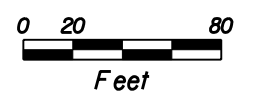
INTELLIGENT TRANSPORTATION
SYSTEM PLAN

SHEET NO.
I-52



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM DROP CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					1	3					
B	2-2"	3-#10S	1								
C										1	
D		3-#10S	1		1	3					
E		3-#8 3-#10S			1	1					
F		3-#8	1		1	4					
G		3-#10S									

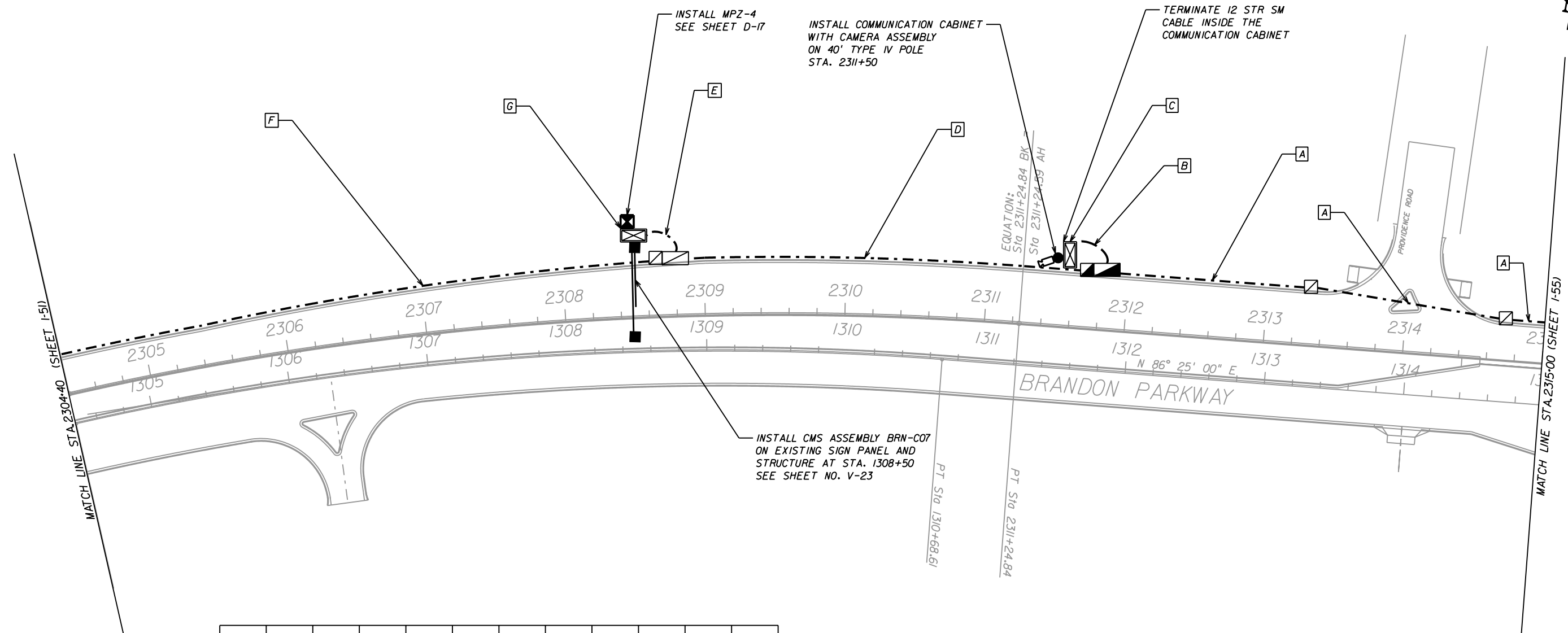
NOTE:
1. SEE DETAIL SHEET D-17 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS						 <small>ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			INTELLIGENT TRANSPORTATION SYSTEM PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		I-55

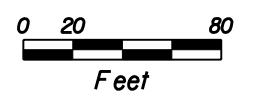
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

S.R. 618 HILLSBOROUGH 53.41.01



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					1	4					
B	2-2"	3-#10S	1								
C										1	
D		3-#10S	1		1	4					
E		3-#6 3-#10S			1	1					
F		3-#6	1		1	5					
G		3-#10S									

NOTE:
1. SEE DETAIL SHEET D-17 FOR ELECTRICAL CIRCUIT DIAGRAM



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

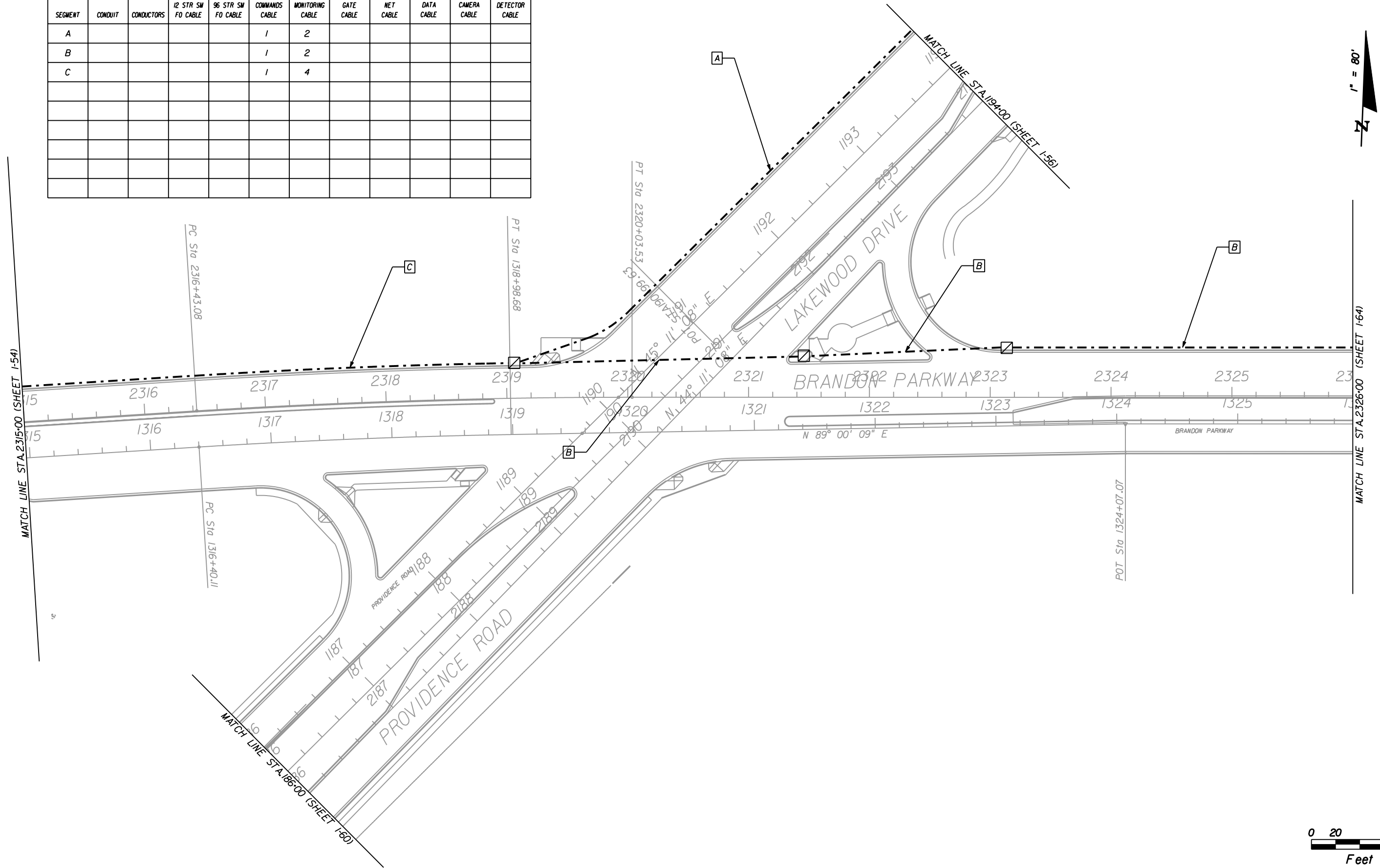
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-54

SEGMENT	CONDUIT	CONDUCTORS	12 STR SW FO CABLE	96 STR SW FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					1	2					
B					1	2					
C					1	4					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

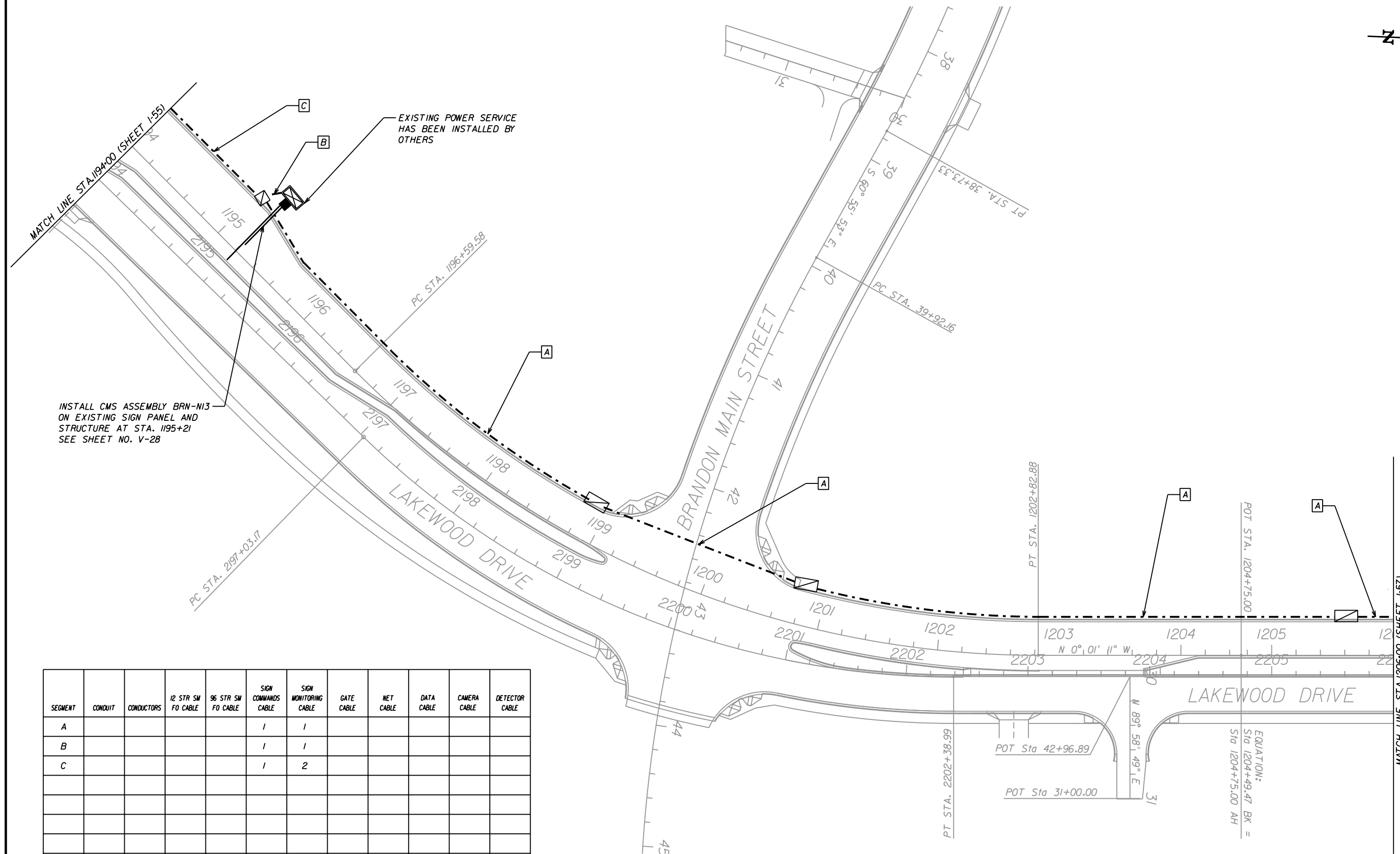
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
18131 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

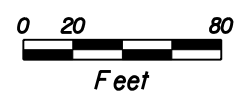
INTELLIGENT TRANSPORTATION
SYSTEM PLAN

SHEET NO.
I-55

1" = 80'



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					1	1					
B					1	1					
C					1	2					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

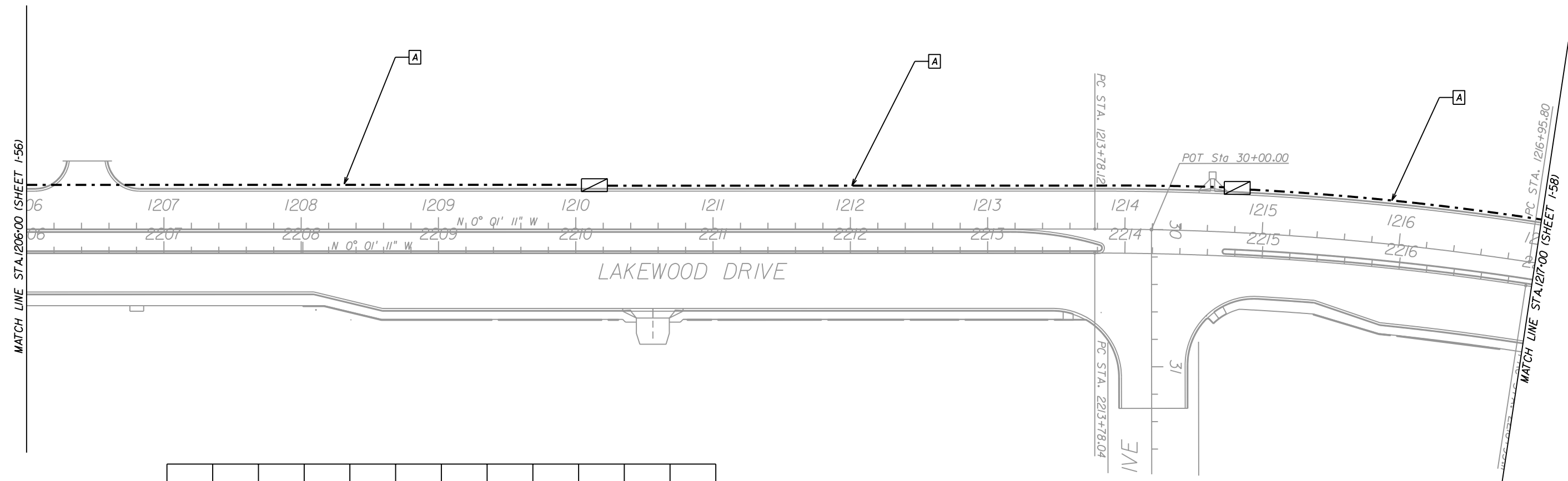
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

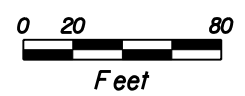
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION
SYSTEM PLAN

SHEET NO.
I-56



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					/	/					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

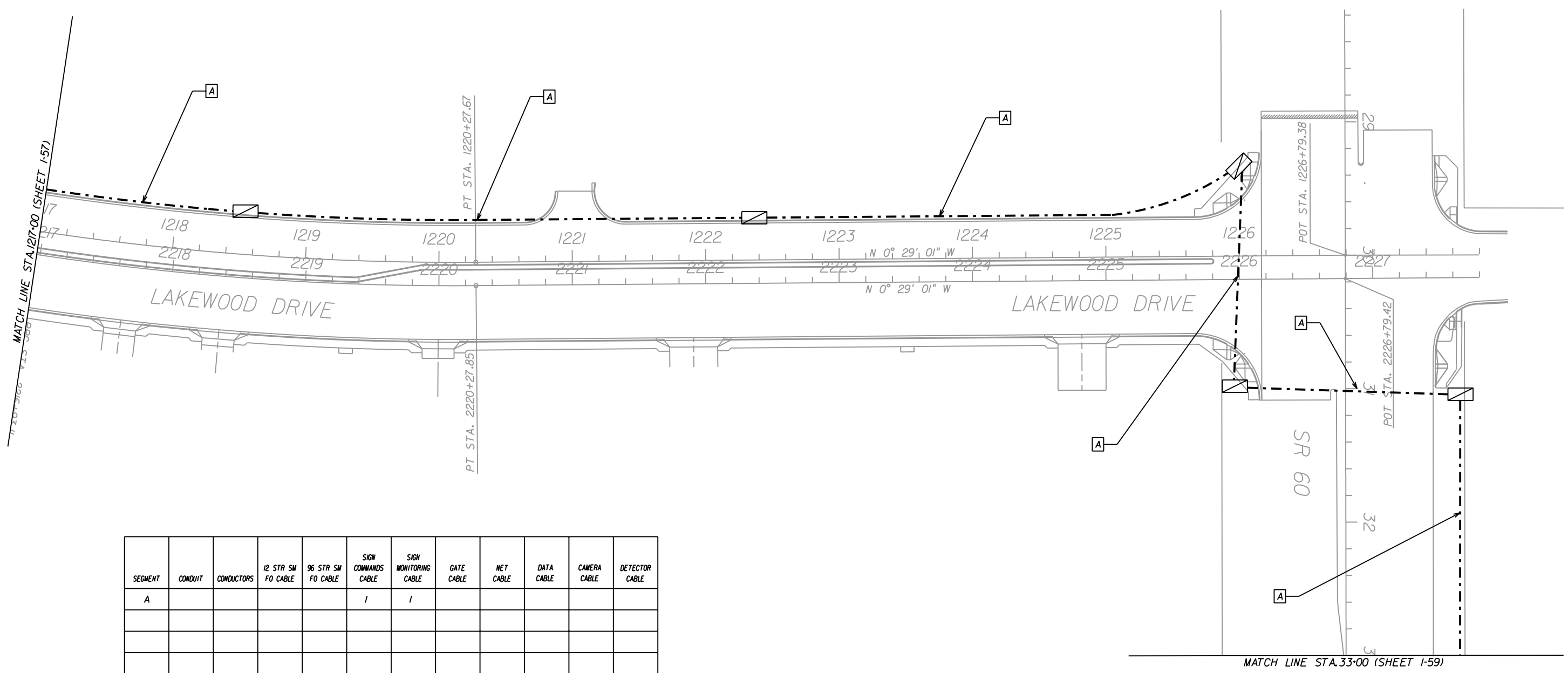
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

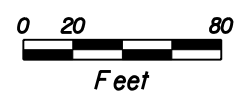
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION
SYSTEM PLAN

SHEET NO.
I-57



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					/	/					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

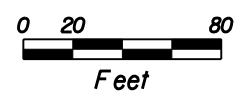
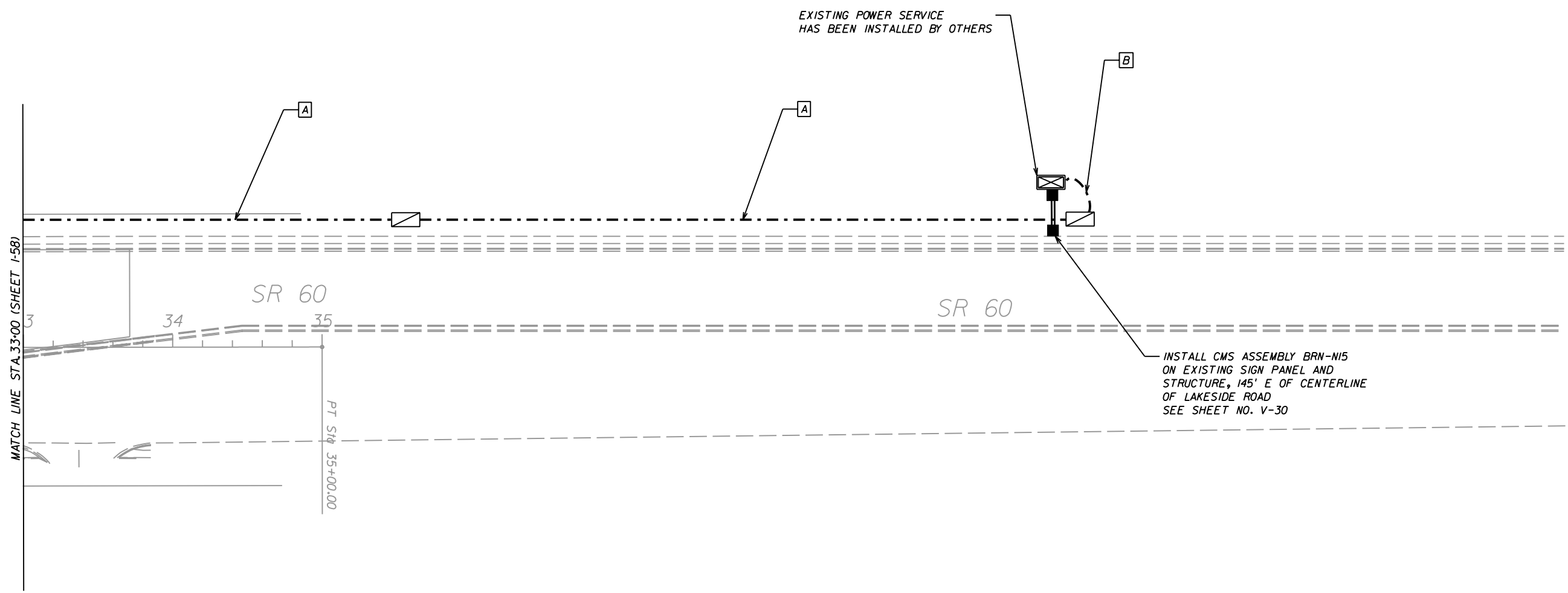
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-58

SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					/	/					
B					/	/					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

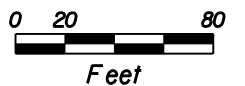
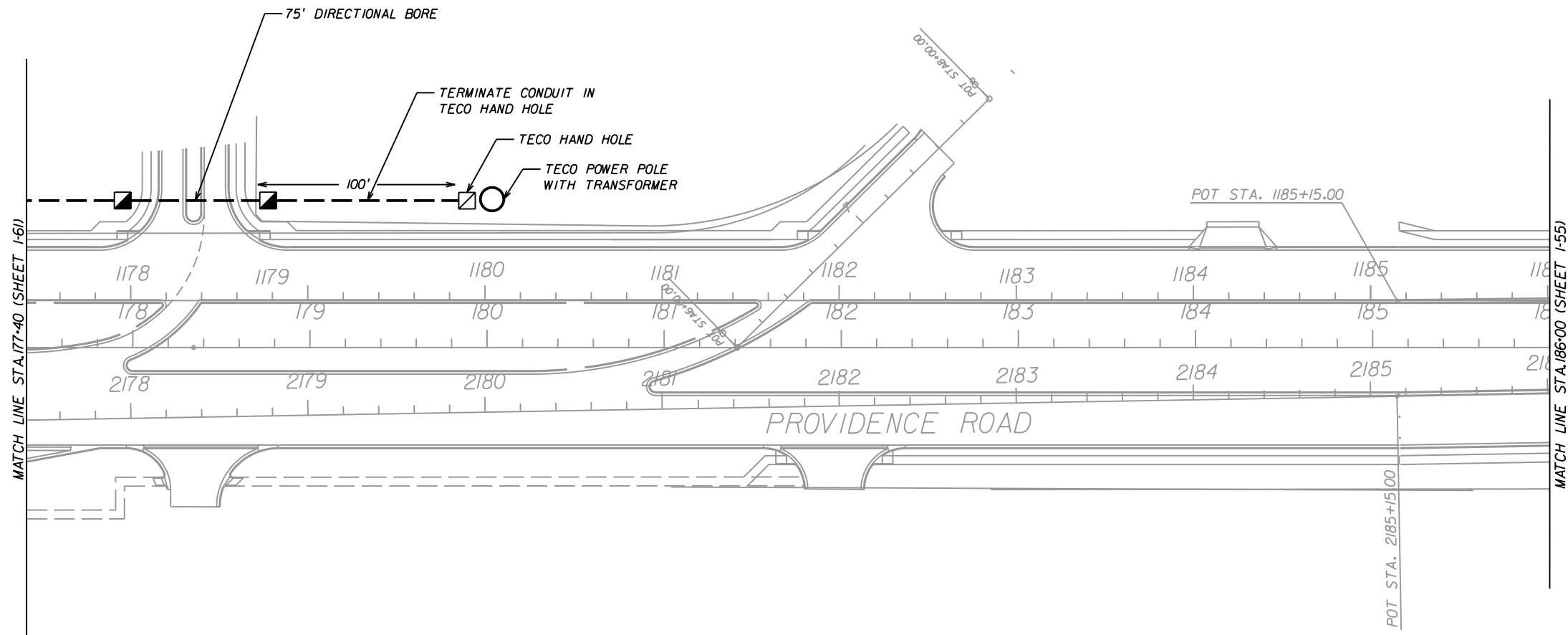
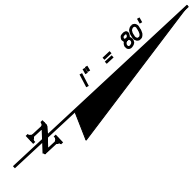
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-59



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

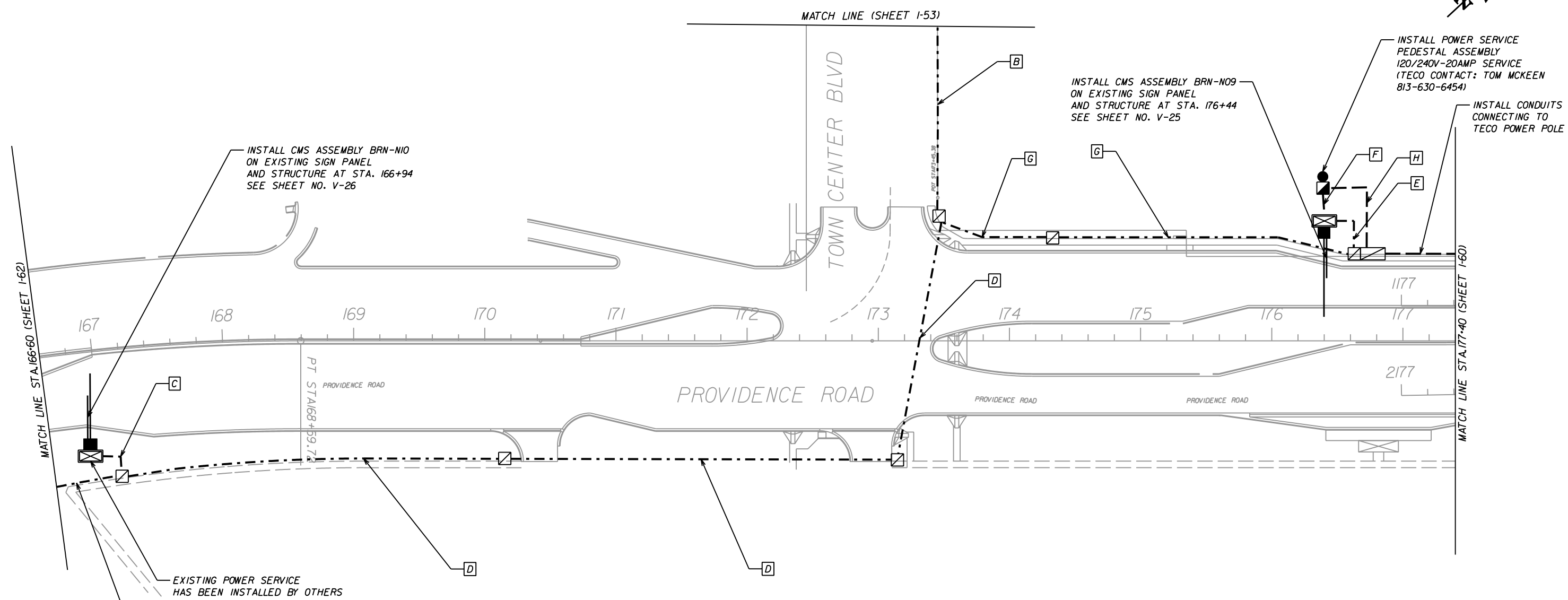
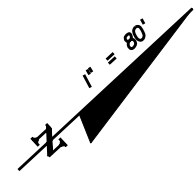
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
18131 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

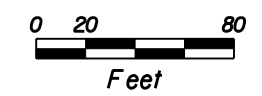
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-60



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					1	1					
B					1	3					
C					1	1					
D					1	2					
E		3-#10			1	1					
F	1-2"	3-#10									
G					1	1					
H	1-2"	3-#10									



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

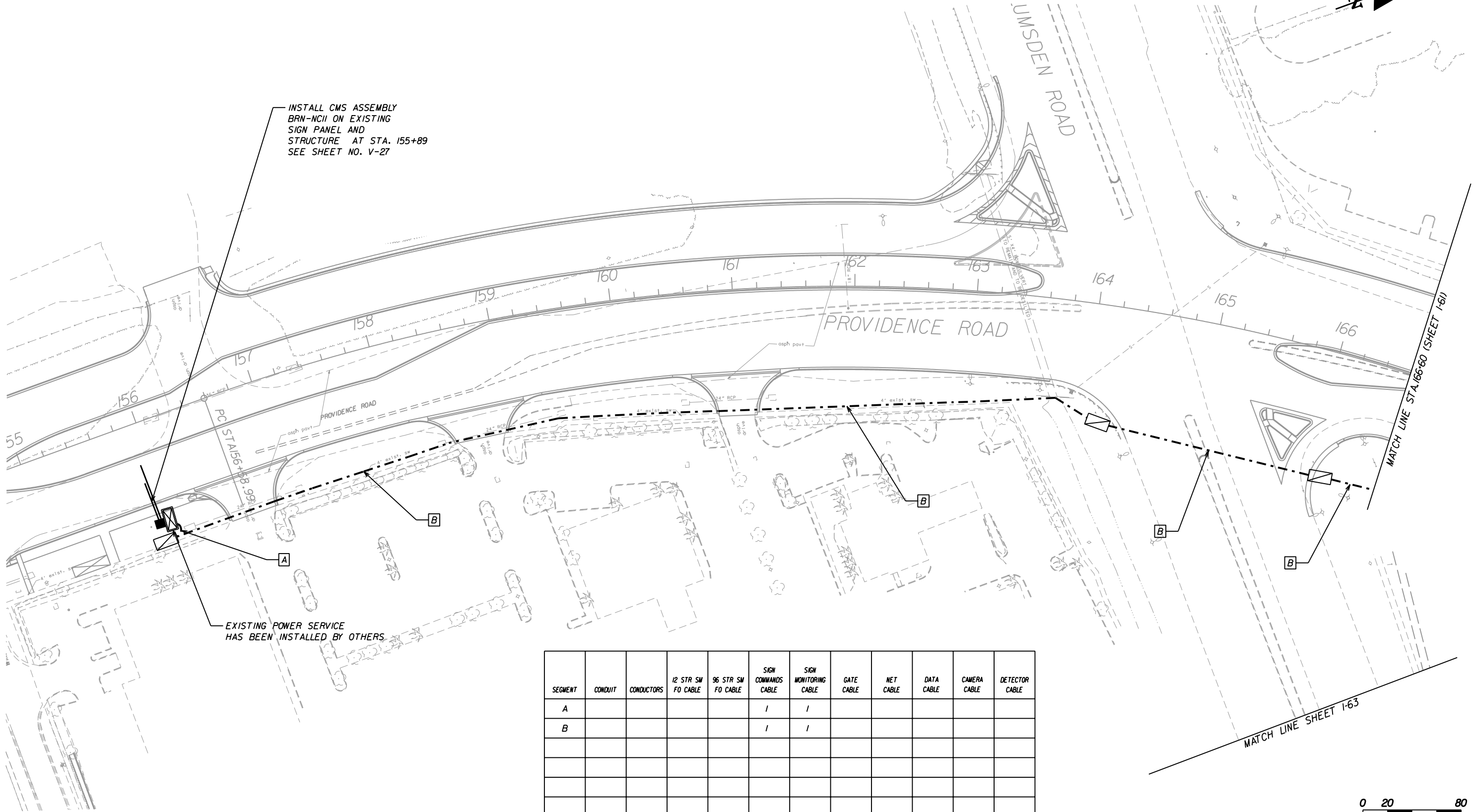
INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-61

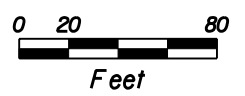
1" = 80'

INSTALL CMS ASSEMBLY
BRN-NCII ON EXISTING
SIGN PANEL AND
STRUCTURE AT STA. 155+89
SEE SHEET NO. V-27

EXISTING POWER SERVICE
HAS BEEN INSTALLED BY OTHERS



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					/	/					
B					/	/					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

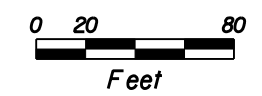
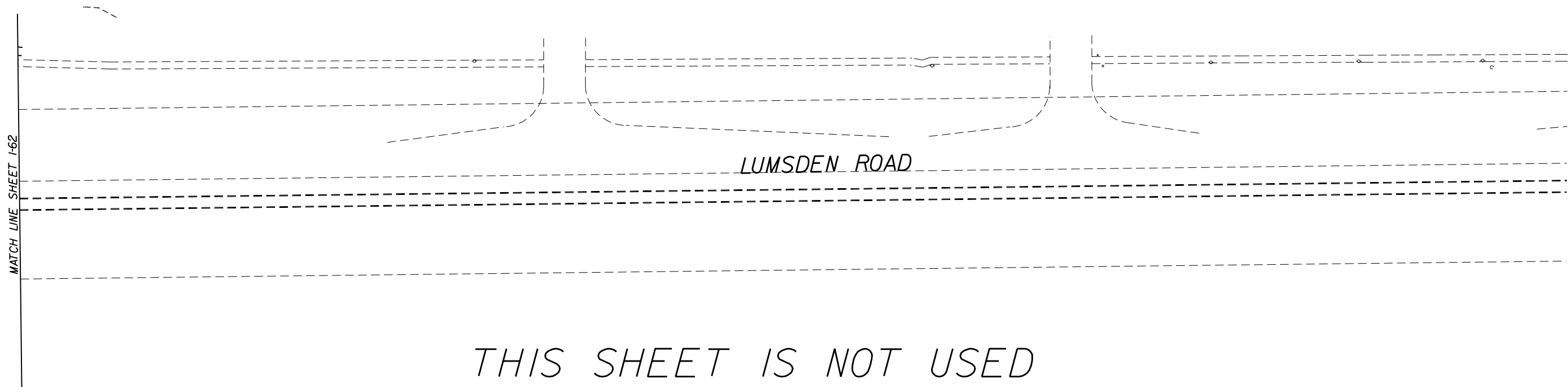
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

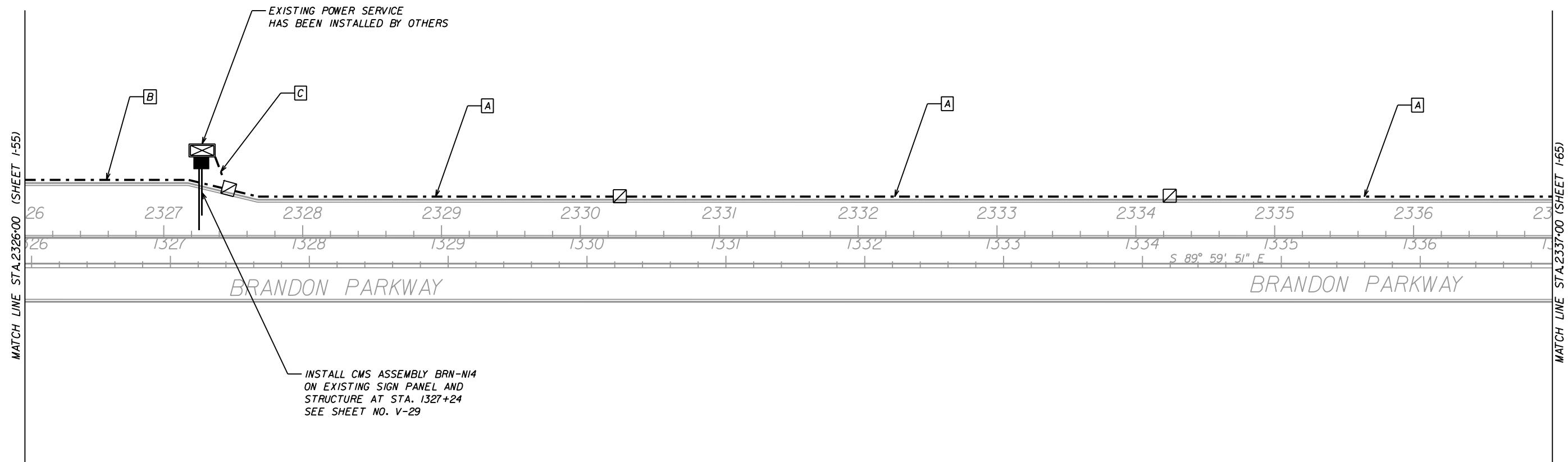
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION
SYSTEM PLAN

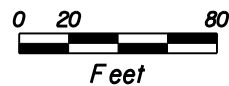
SHEET NO.
I-62



REVISIONS							TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			INTELLIGENT TRANSPORTATION SYSTEM PLAN	SHEET NO. I-63
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EBB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	S.R. 618	HILLSBOROUGH	53.41.01		



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					1	1					
B					1	2					
C					1	1					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

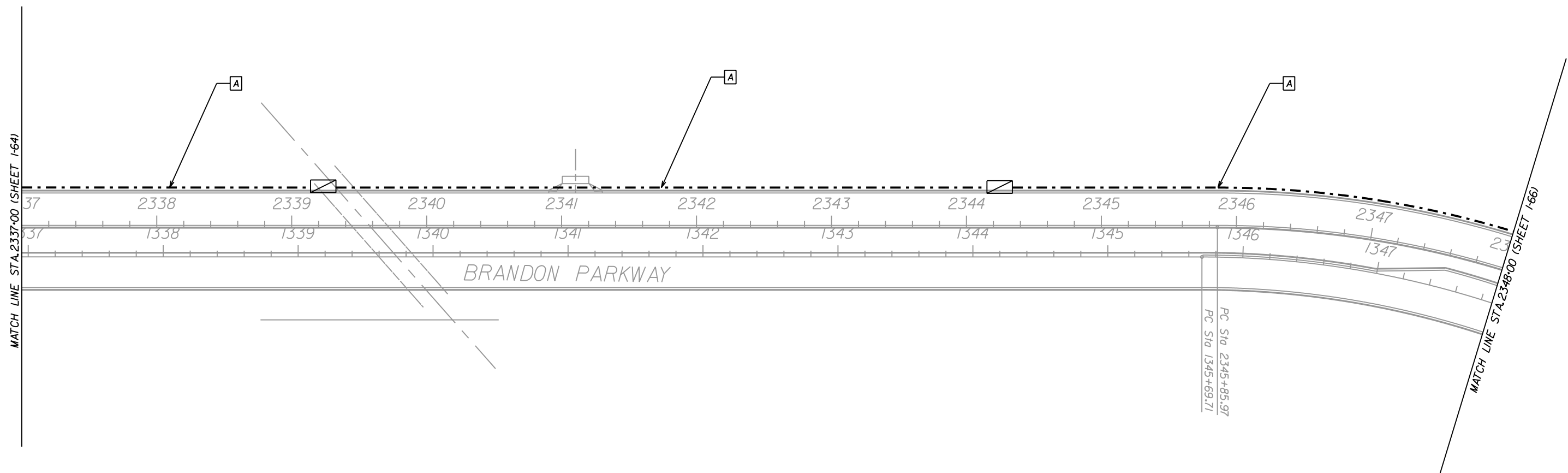
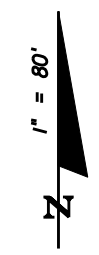
**TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

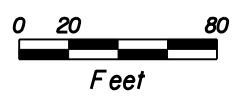
**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.

I-64



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					/	/					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

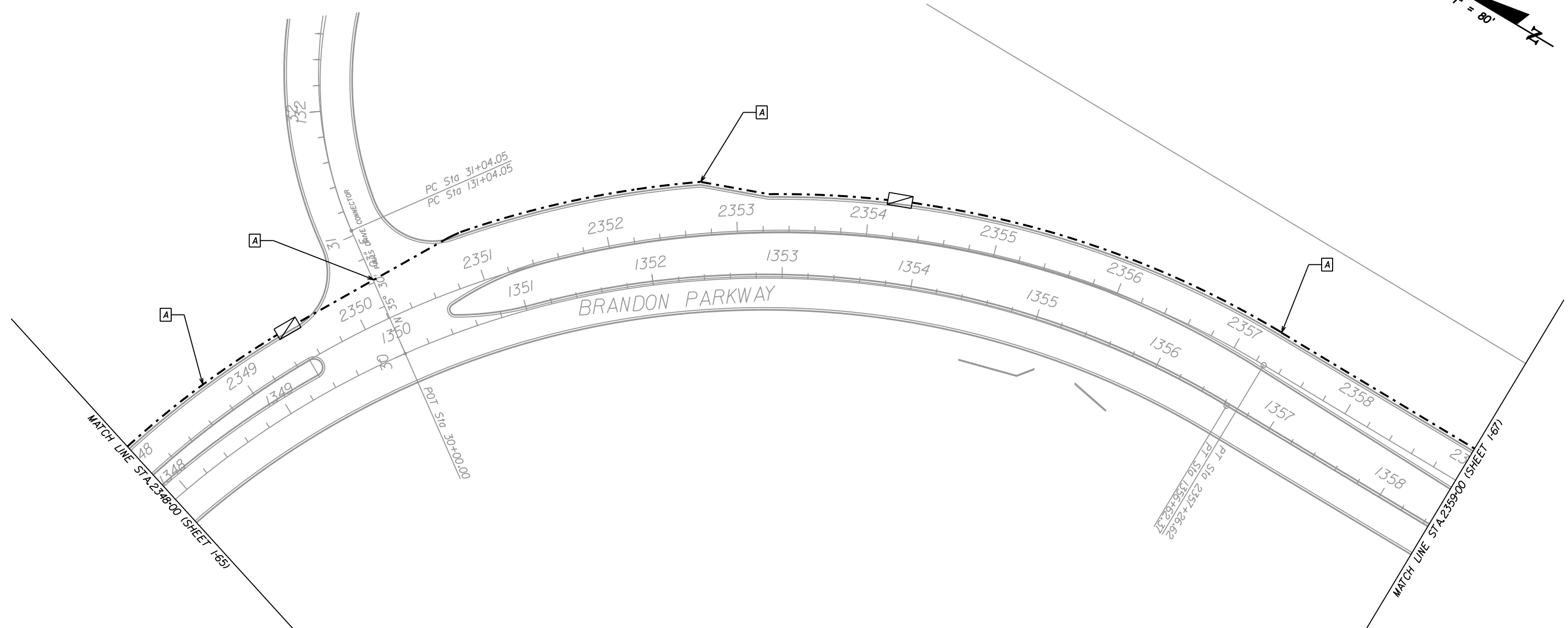
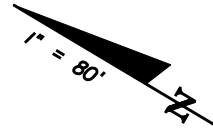
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

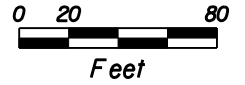
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.
I-65



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					/	/					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

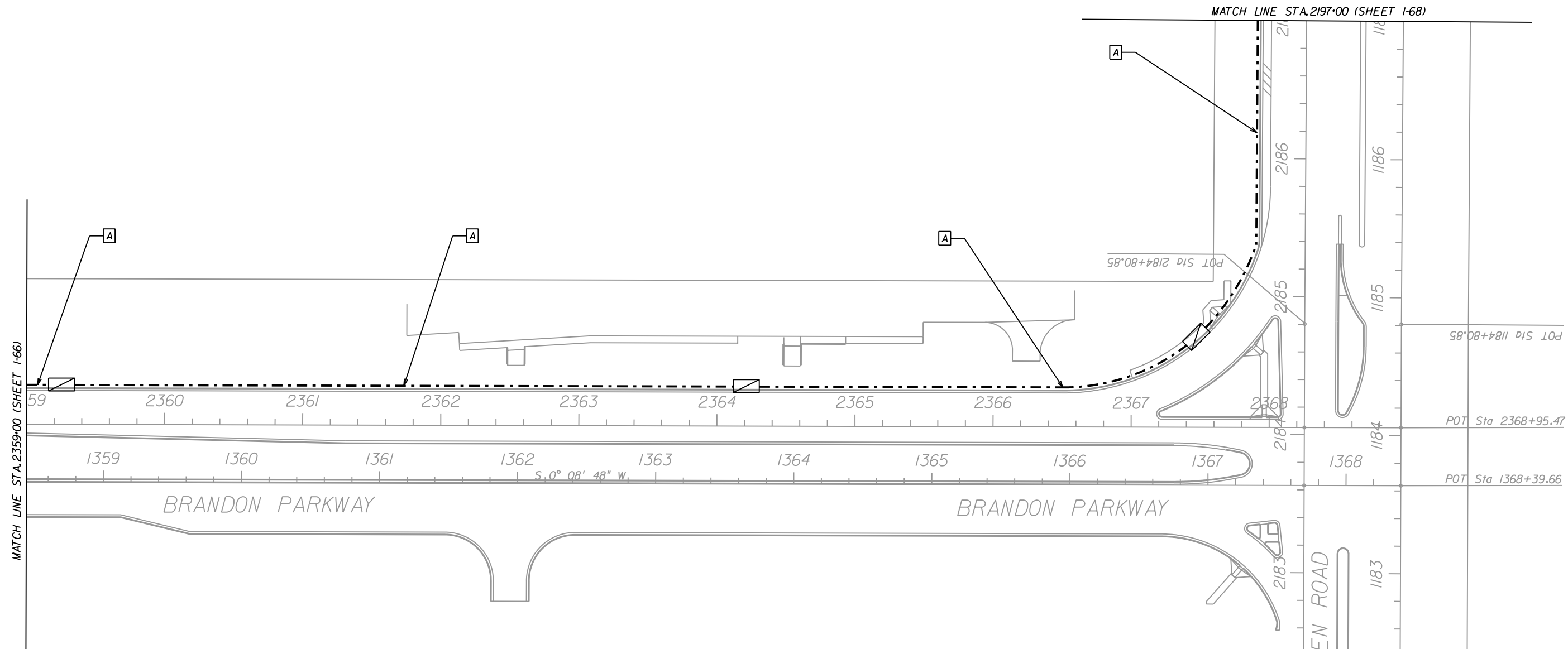
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 884-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

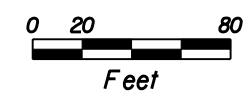
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**INTELLIGENT TRANSPORTATION
SYSTEM PLAN**

SHEET NO.
I-66



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					1	1					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

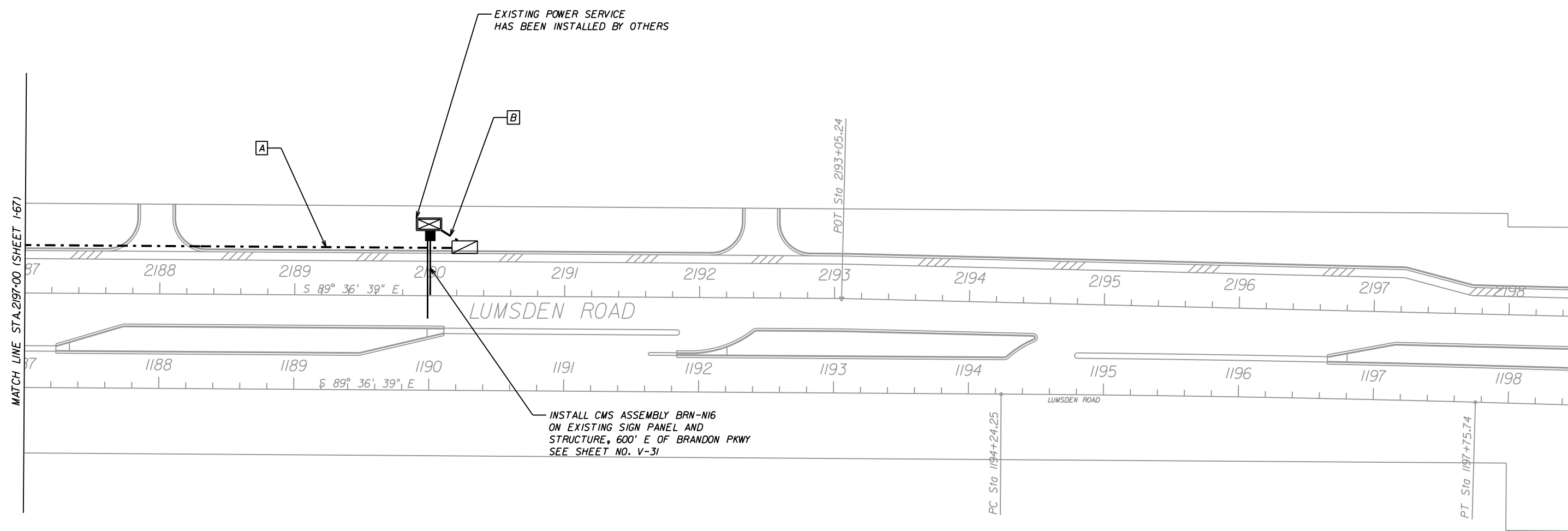
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

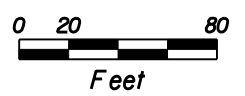
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION
SYSTEM PLAN

SHEET NO.
I-67



SEGMENT	CONDUIT	CONDUCTORS	12 STR SM FO CABLE	96 STR SM FO CABLE	SIGN COMMANDS CABLE	SIGN MONITORING CABLE	GATE CABLE	NET CABLE	DATA CABLE	CAMERA CABLE	DETECTOR CABLE
A					/	/					
B					/	/					



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

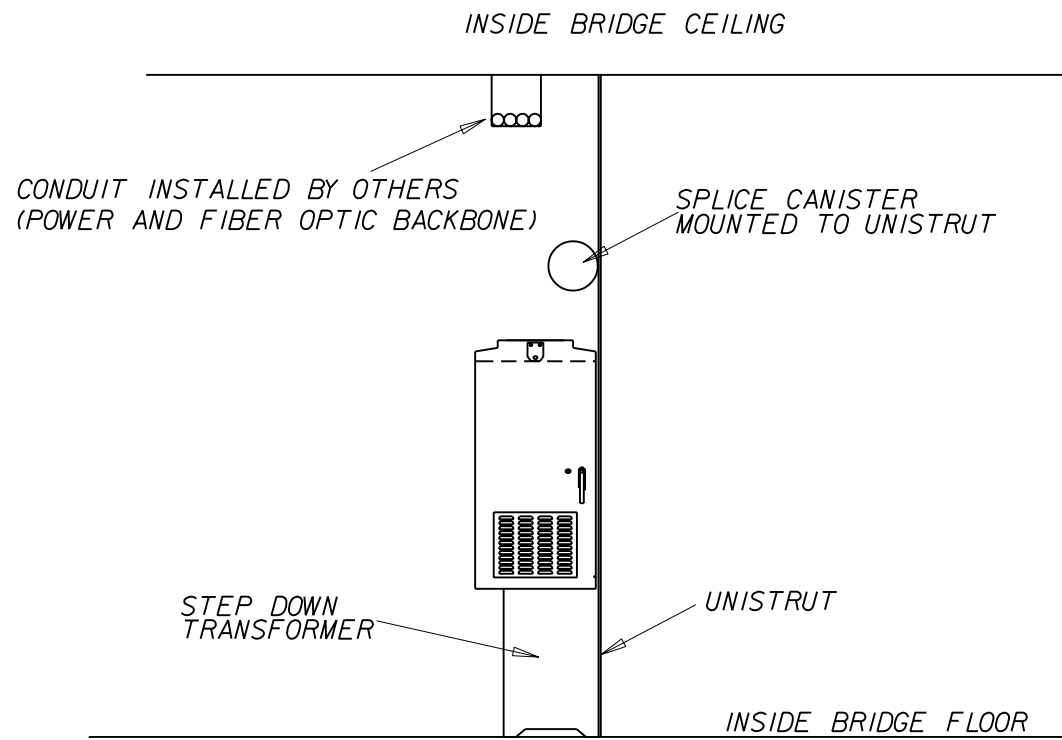
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

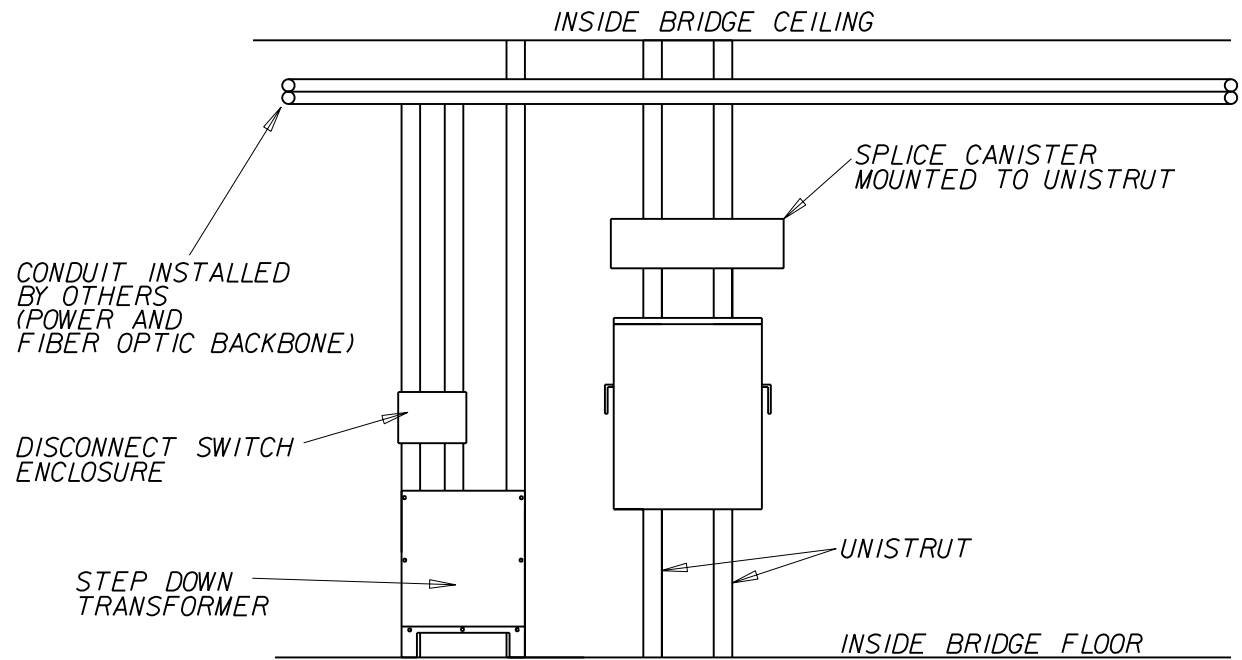
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

INTELLIGENT TRANSPORTATION SYSTEM PLAN

SHEET NO.
I-68



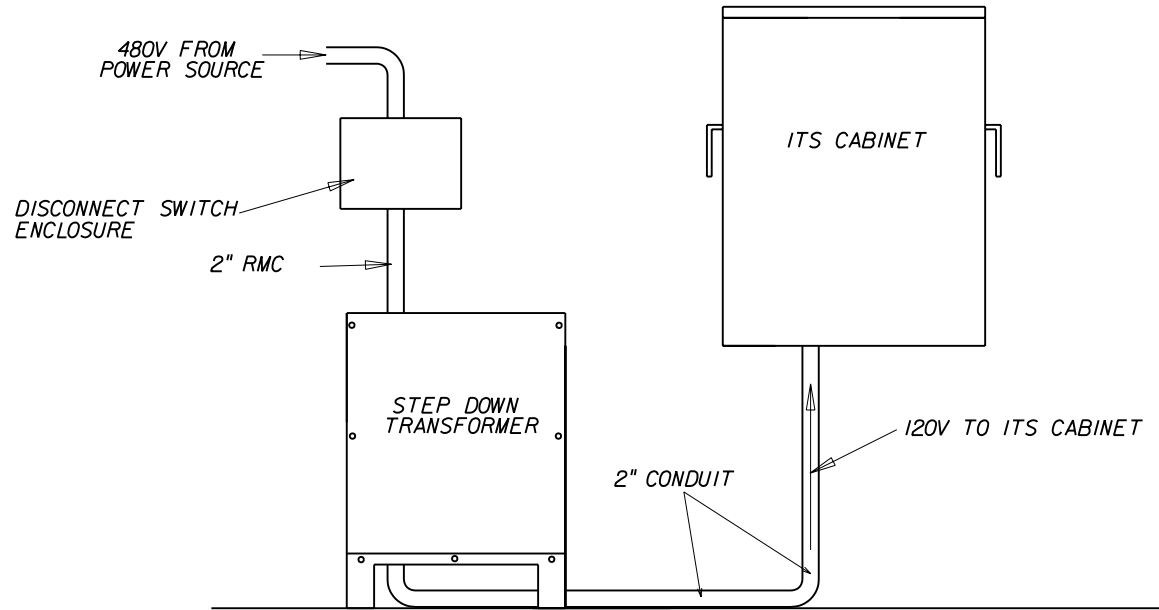
INSIDE BRIDGE CABINET (FRONT VIEW)



INSIDE BRIDGE CABINET/WITH STEP DOWN
TRANSFORMER AND DISCONNECT (SIDE VIEW)

NOTES:

1. CONDUIT ENTRY SHALL BE SEALED AT ENTRY INTO CABINET
2. CABINET WITH ALL REQUIRED INTERNAL EQUIPMENT AND PATCH CORDS WILL BE PROVIDED TO THE CONTRACTOR BY THE SYSTEM MANAGER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL EXTERNAL CABLES LEADING INTO THE CABINET (FIBER OPTIC DROP, GROUNDING, COMMUNICATIONS CABLE LEADING TO EXTERNAL DEVICES)
3. CONTRACTOR SHALL HAVE THE OPTION OF MOUNTING THE SPLICE ENCLOSURE TO THE UNISTRUT BELOW THE CABINET.
4. STEP DOWN TRANSFORMER SHALL BE GROUND MOUNTED AND ATTACHED TO THE UNISTRUTS.
5. TRANSFORMER SHALL BE A HARMONIC 480V/120V STEP DOWN.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

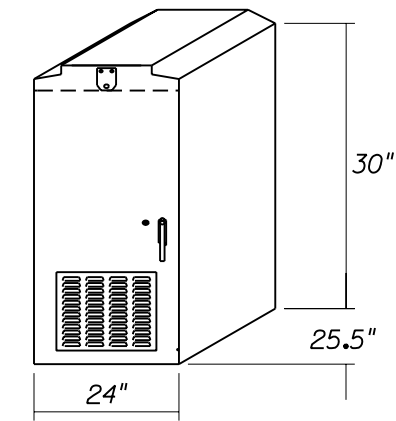
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

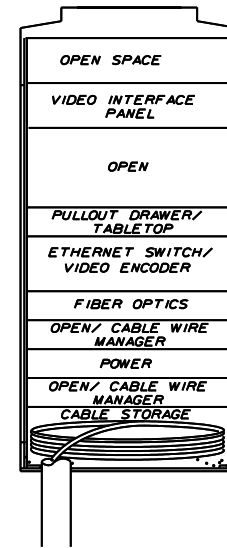
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**TYPICAL DETAILS
INSIDE BRIDGE CABINET
WITH TRANSFORMER**

SHEET NO.
D-1



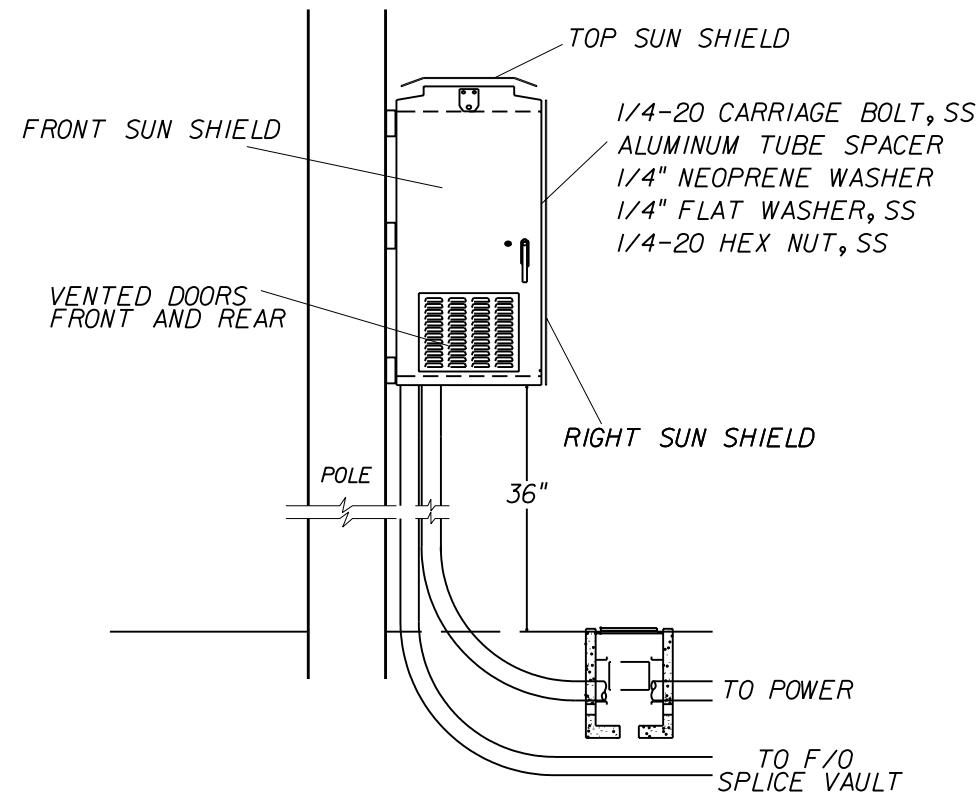
CABINET DIMENSIONS



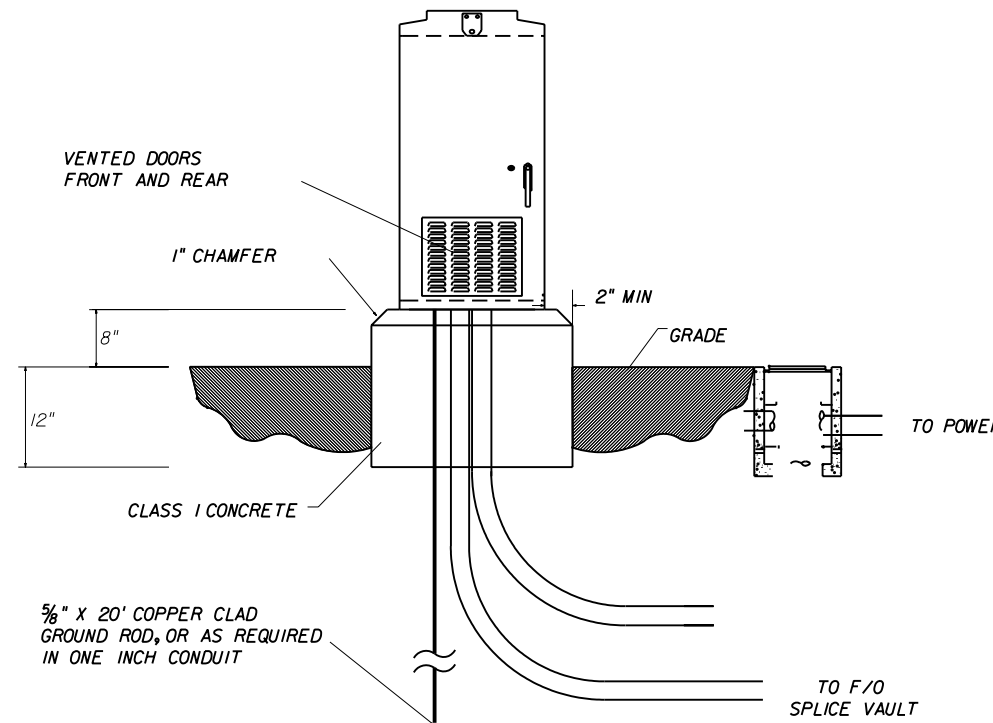
CABINET EQUIPMENT LAYOUT

NOTES:

1. CONDUIT ENTRY SHALL BE SEALED AT ENTRY INTO CABINET.
2. CABINET WITH ALL REQUIRED INTERNAL EQUIPMENT AND PATCH CORDS WILL BE PROVIDED TO THE CONTRACTOR BY THE SYSTEM MANAGER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL EXTERNAL CABLES LEADING INTO THE CABINET (FIBER OPTIC DROP, GROUNDING, COMMUNICATIONS CABLE LEADING TO EXTERNAL DEVICES).
3. ALL CONDUIT WILL TERMINATE IN A PULL BOX.
4. CABINET DOORS SHALL OPEN PARALLEL TO THE RIGHT.
5. ORIENTATION OF CONDUIT MAY VARY DEPENDING ON EQUIPMENT LOCATION.
6. CONDUIT TO STUB UP 4 INCHES AND HAVE A MINIMUM BEND RADIUS AS REQUIRED BY CABLE AND THE TSP'S.
7. CLASS I NON STRESSED CONCRETE SHALL BE ACCEPTABLE ACCORDING TO SECTION 347 OF THE STANDARD SPECIFICATIONS, AND THE LATEST SUPPLEMENTS.
8. PROVIDE A MASTEC SEALANT BETWEEN THE CABINET SEALANT BASE AND THE CONCRETE FOUNDATION TO PREVENT DUST AND MOISTURE FROM ENTERING THE CABINET FLOOR.



TYPICAL POLE MOUNT CABINET



TYPICAL GROUND MOUNT CABINET W/FOUNDATION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

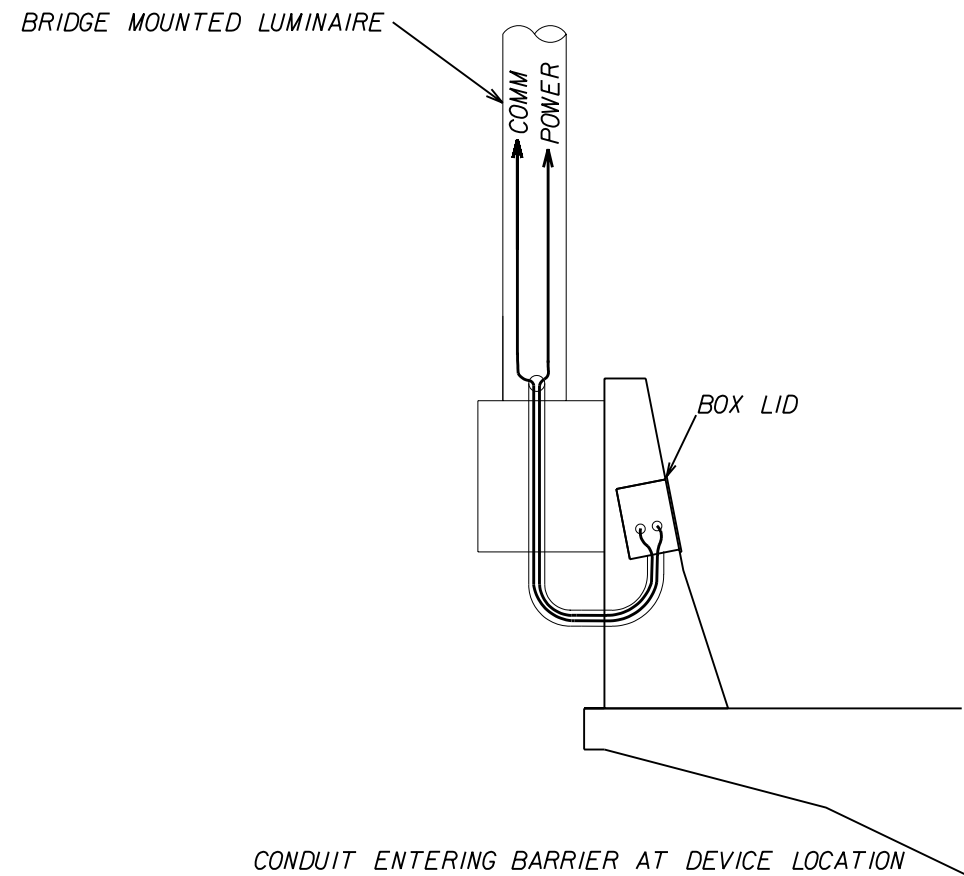
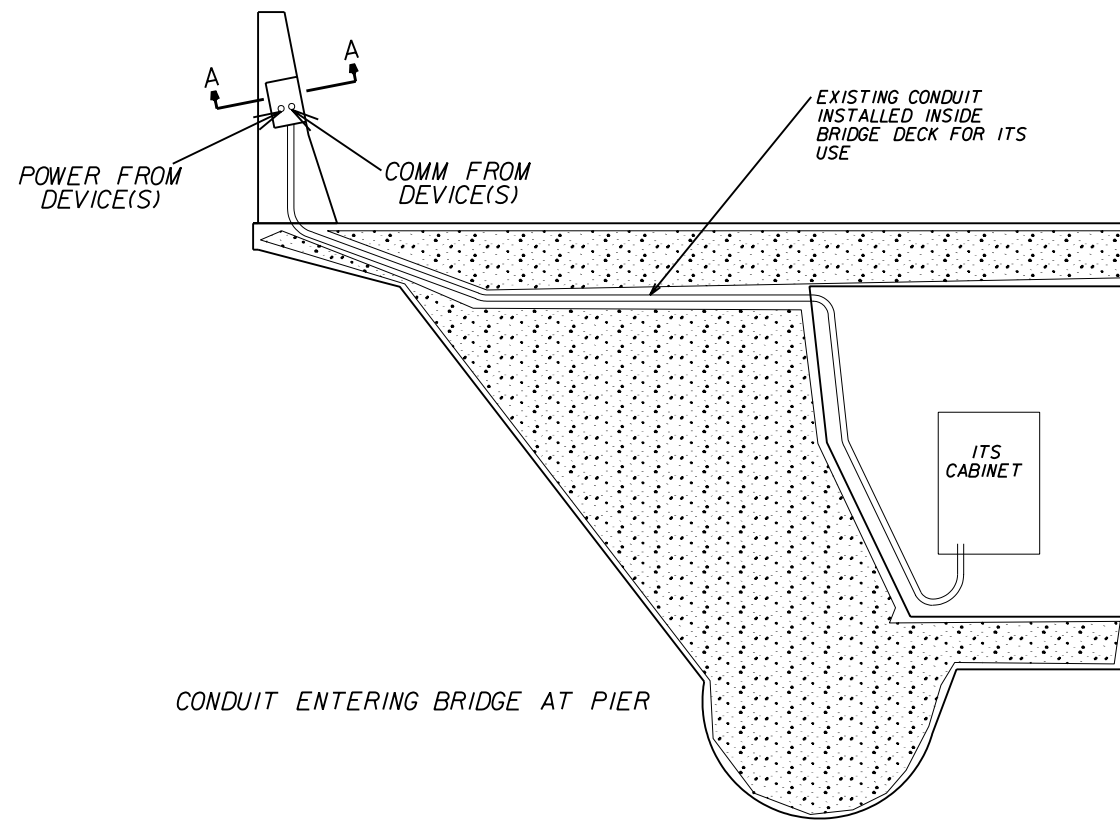
**TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**TYPICAL DETAILS
POLE AND GROUND MOUNT
CABINET AND FOUNDATION**

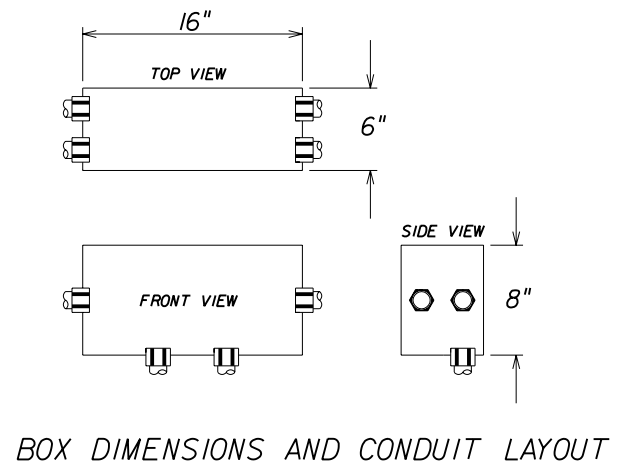
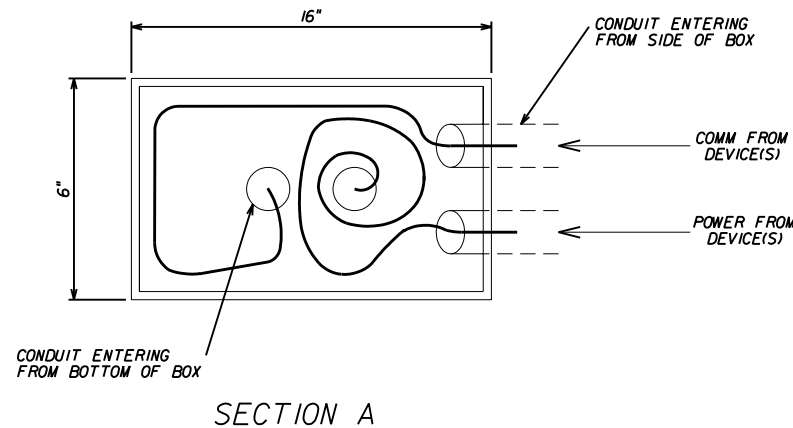
SHEET NO.

D-2



NOTES:

1. ALL CONDUIT IN BRIDGE IS EXISTING AND WILL BE ACCESSIBLE AT EACH PIER LOCATION. THE CONTRACTOR SHALL TIE INTO THIS CONDUIT AND INSTALL A BARRIER MOUNTED PULL BOX FOR FUTURE ACCESS.
2. ALL CONDUIT FROM THE DEVICE SHALL ENTER THE BARRIER AND TERMINATE IN A BARRIER MOUNTED PULL BOX. ALL CONDUIT FROM THIS PULL BOX TO THE ACCESS PULL BOX (INSTALLED BY THE CONTRACTOR IN THE BARRIER AT THE PIER) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE FABRICATION OF THE BARRIER IN ORDER TO INSTALL ALL PULL BOXES AND CONDUIT FOR THE ITS SYSTEM.
4. ALL CONDUIT ENTERING AND EXITING THE BARRIER MOUNTED PULL BOXES SHALL BE 1/4".



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

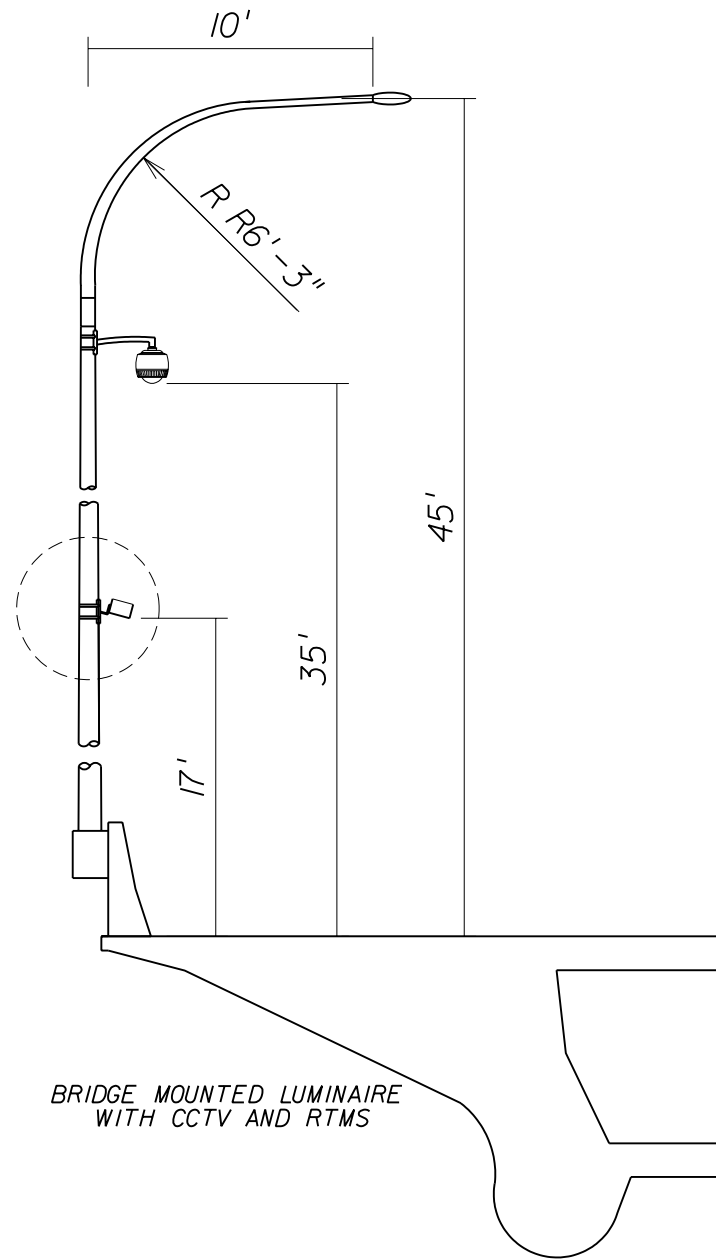
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

**TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY**

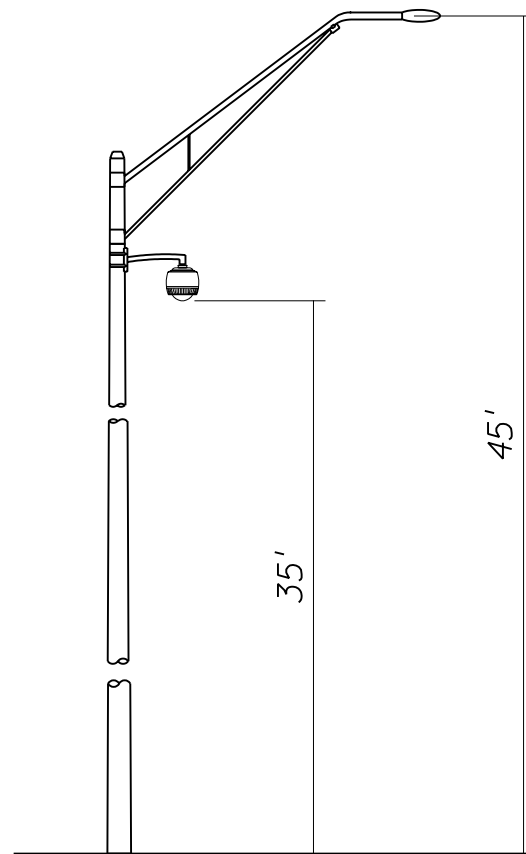
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**TYPICAL DETAILS
CONDUIT AND PULL BOX
INSTALLATION IN BARRIER**

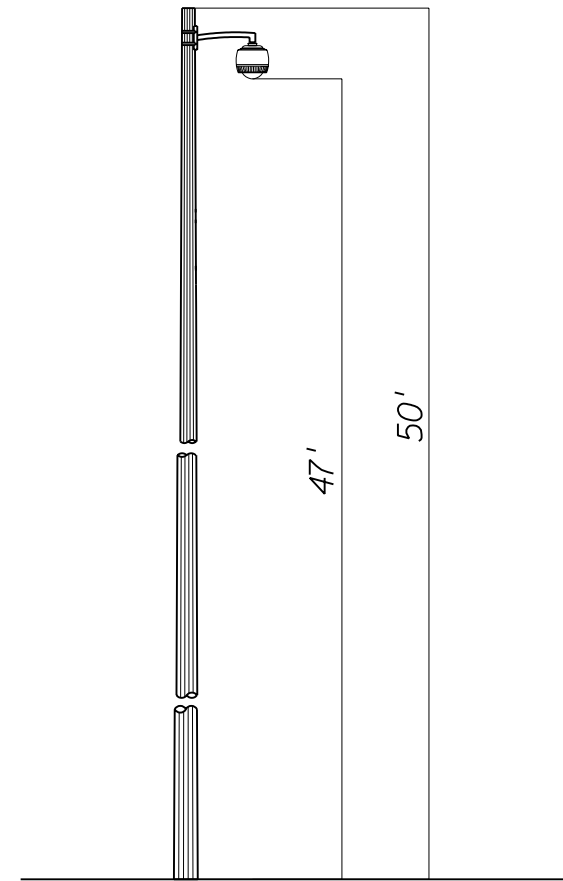
SHEET NO.
D-3



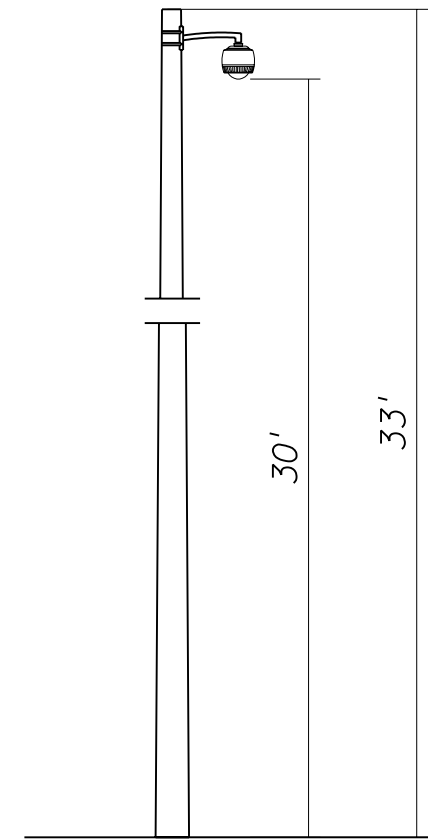
BRIDGE MOUNTED LUMINAIRE WITH CCTV AND RTMS



GROUND MOUNTED LUMINAIRE WITH CCTV



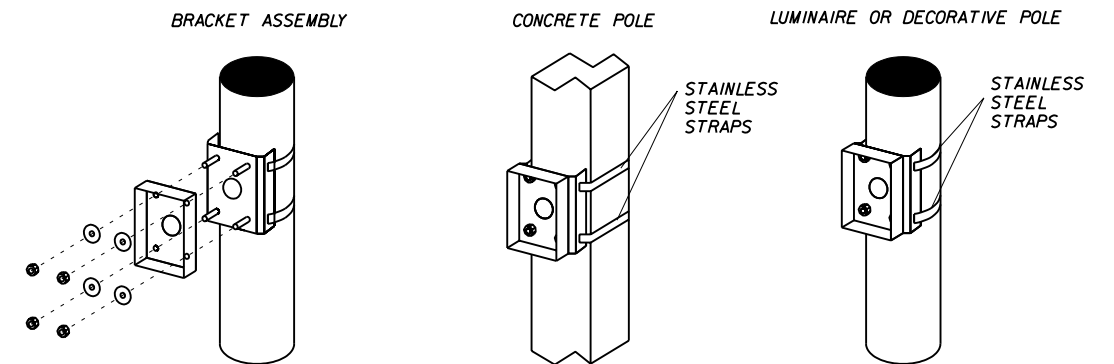
DECORATIVE POLE WITH CCTV



40' TYPE IV CONCRETE POLE WITH CCTV

NOTES:

1. BRIDGE MOUNTED AND GROUND POLE SHALL BE A GALVANIZED STEEL SHAFT REQUIRING A SPECIAL DESIGN BY THE MANUFACTURER
2. AN INTERNAL VIBRATION DAMPER SHALL BE INSTALLED IN ALL POLES IN WHICH AN ITS DEVICE IS TO BE INSTALLED.
3. DESIGN WIND VELOCITY SHALL BE 110 MILES PER HOUR WITH 1.3 GUST FACTOR.
4. LIGHT POLES SHALL BE DESIGNED TO SUPPORT LUMINAIRE, CCTV, AND RTMS UNITS.
5. A 10' DAVIT ARM WILL BE USED FOR ALL BRIDGE MOUNT APPLICATIONS AND A 10' TRUSS ARM WILL BE USED IN NON ELEVATED SECTIONS.



CCTV MOUNTING ARM BRACKET

N. T. S.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

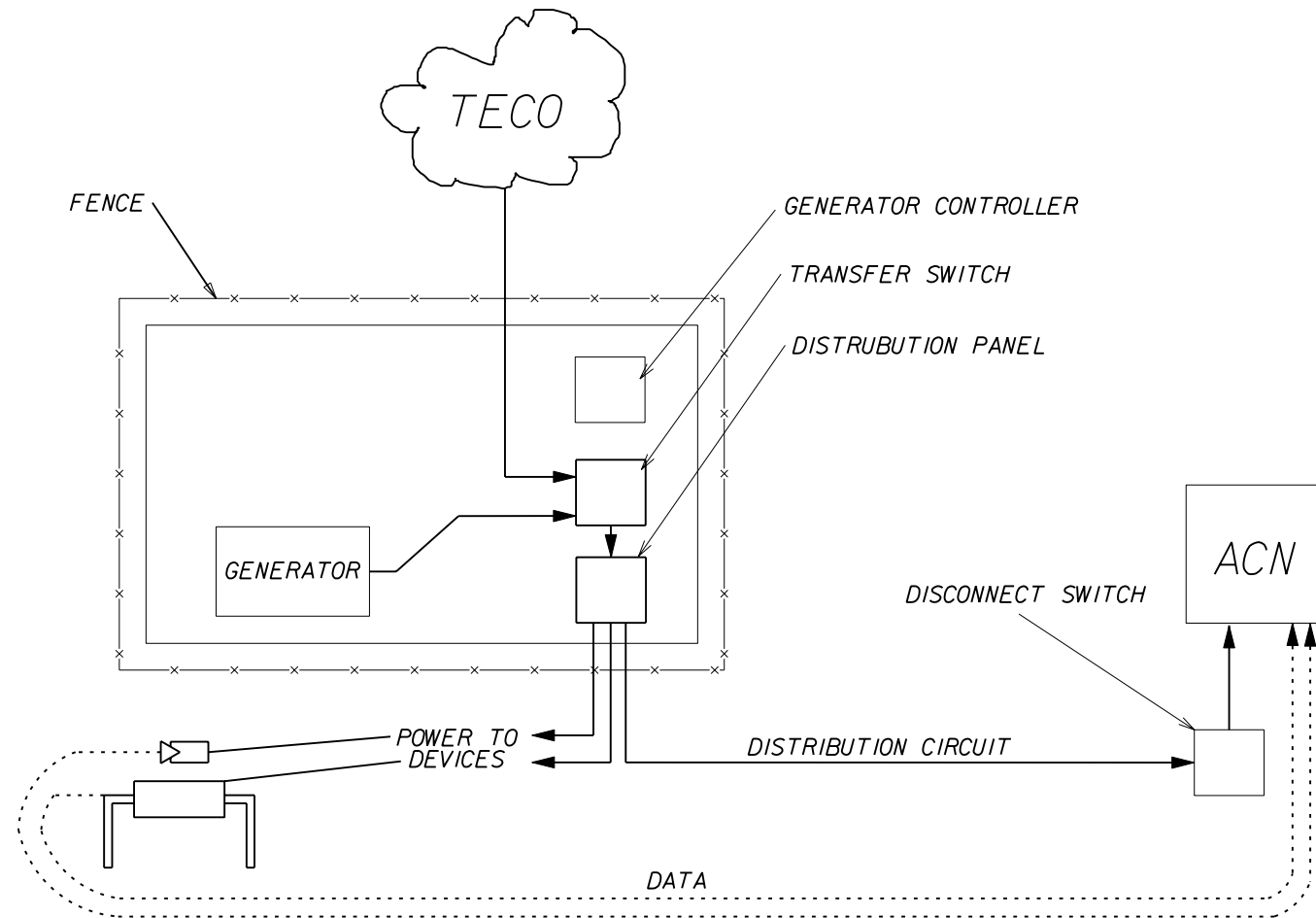
**TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**TYPICAL DETAILS
DEVICE MOUNTING HEIGHTS
AND MOUNTING BRACKETS**

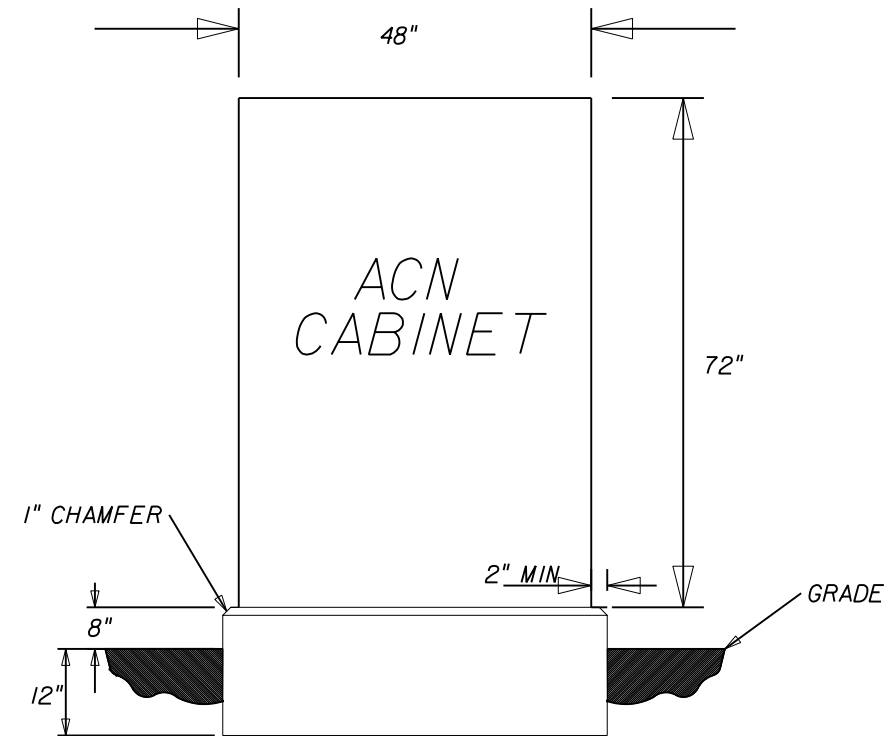
SHEET NO.

D-4



GENERATOR LAYOUT NOTES:

1. ALL ELECTRICAL CONNECTIONS SHALL BE IN ACCORDANCE WITH THE NEC.
2. TRANSFER SWITCH SHALL BE RATED FOR 100 - 400 AMP WITH 600 VAC.
3. GENERATOR SHALL BE AT A MINIMUM 1.5 LITER.

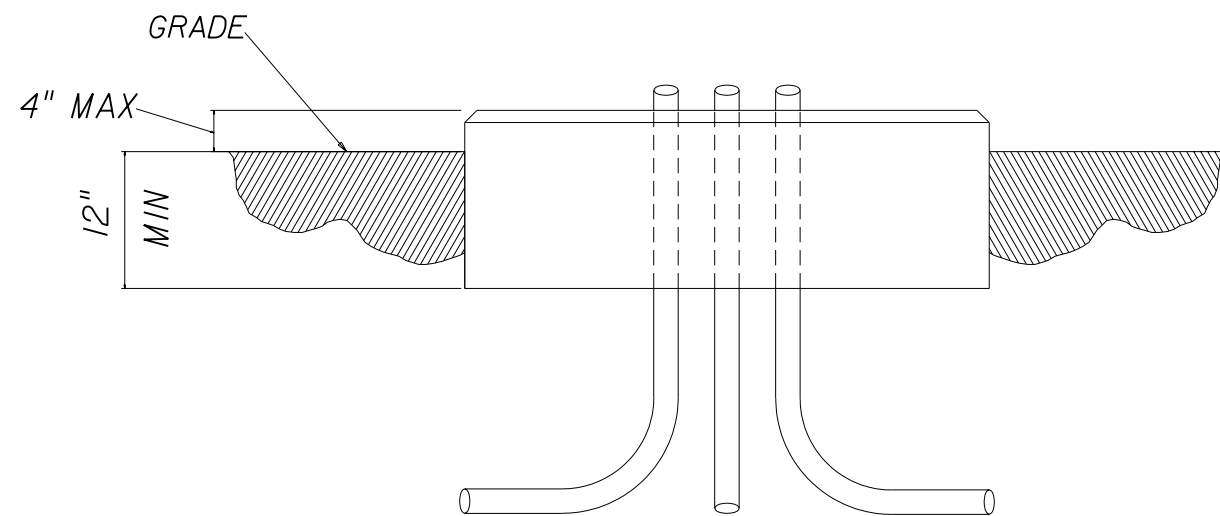
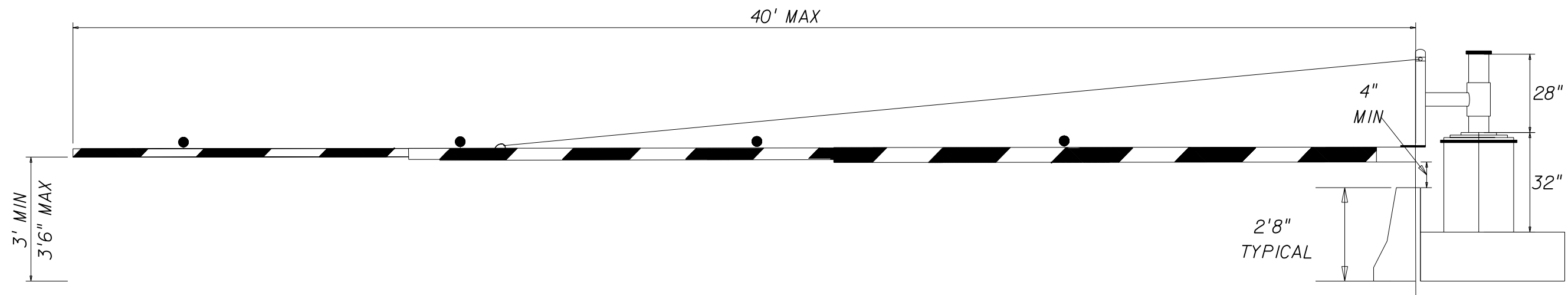


ACN CABINET FOUNDATION NOTES:

1. CLASS I NON-STRESSED CONCRETE SHALL BE ACCEPTED ACCORDING TO SECTION 347 OF THE STANDARD SPECIFICATIONS, AND THE LATEST SUPPLEMENTS
2. CAP ALL UNUSED CONDUITS
3. CONDUIT TO STUB UP 4 INCHES AND SHALL HAVE MINIMUM BEND RADIUS AS REQUIRED BY THE CABLE AND THE TSP'S.
4. PROVIDE A MASTIC SEALANT BETWEEN THE CABINET BASE AND THE CONCRETE FOUNDATION TO PREVENT DUST AND MOISTURE FROM ENTERING THE CABINET FLOOR.

N. T. S.

REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS <small>The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			TYPICAL DETAILS GENERATOR FOUNDATION AND LAYOUT/ACN FOUNDATIONS	SHEET NO. D-5
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	S.R. 618	HILLSBOROUGH	53.41.01		

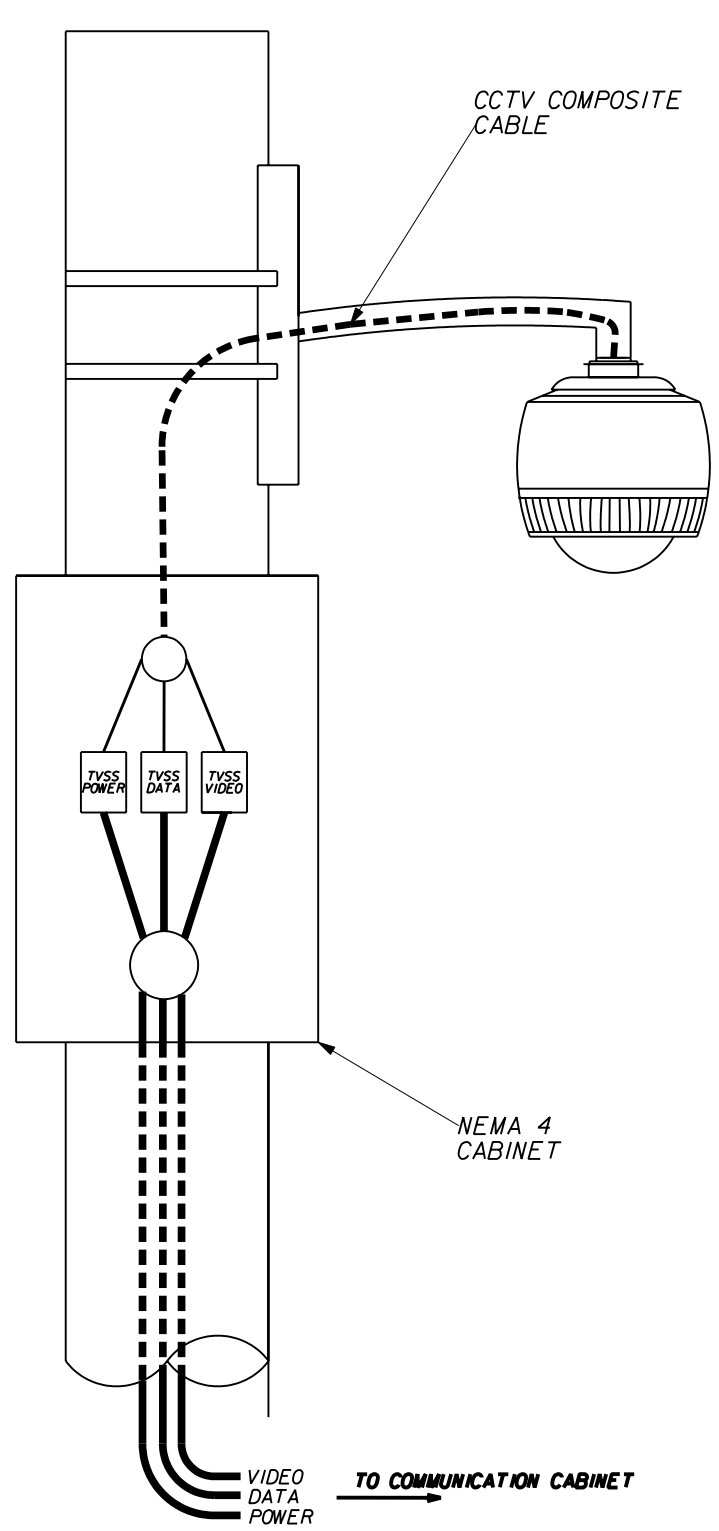


FOUNDATION DETAIL

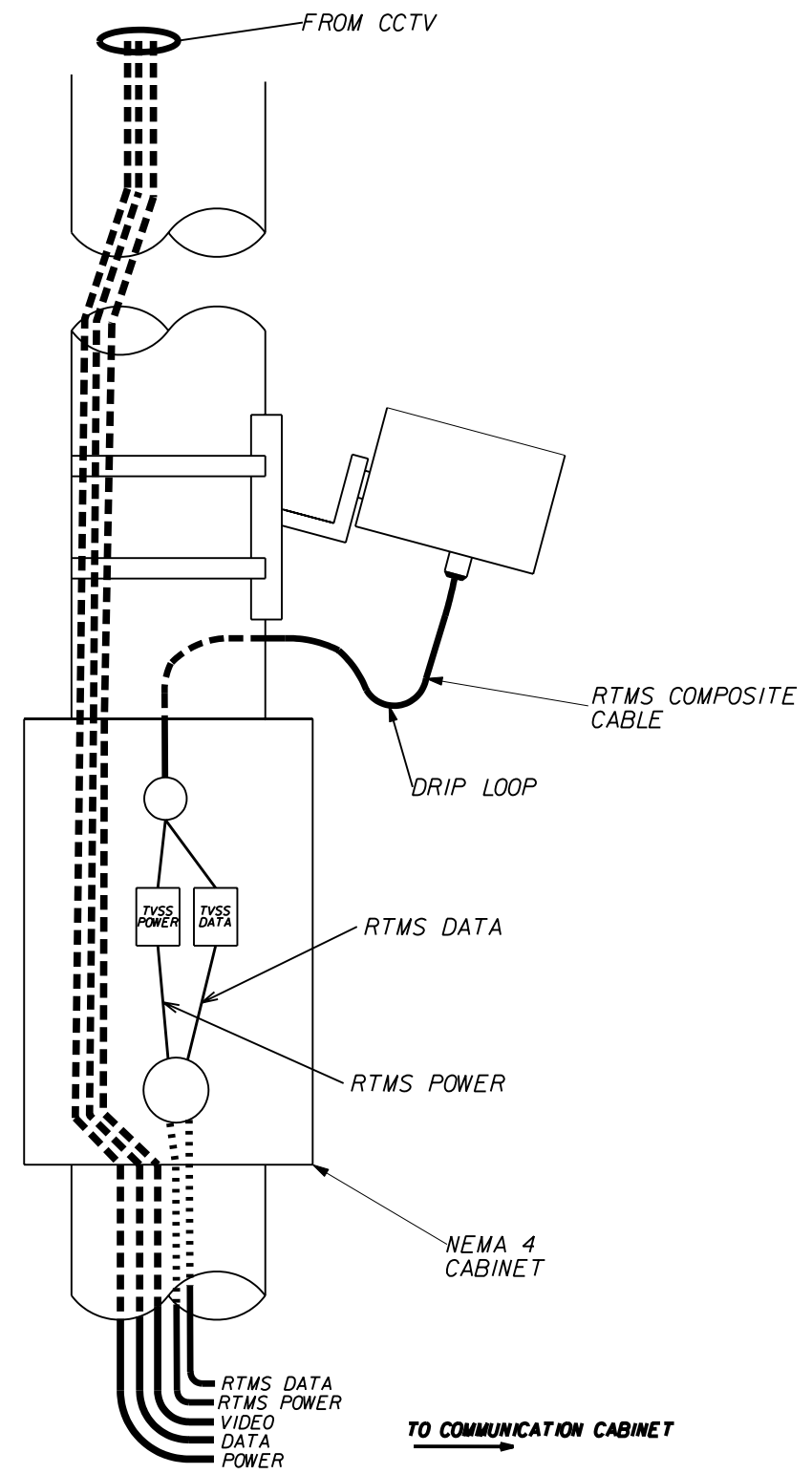
NOTES:

1. A WATERPROOF GASKET SHALL BE INSTALLED BETWEEN THE HOUSING AND THE BASE.
2. ARMS SHALL HAVE A 60-90 DEGREE ADJUSTABLE SWING ANGLE.
3. GATE SHALL BE EQUIPPED WITH A HANDCRANK SAFETY SWITCH.

REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			TYPICAL DETAILS GATE AND FOUNDATION	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		D-6
						510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	S.R. 618	HILLSBOROUGH	53.41.01		



CCTV ONLY



CCTV AND RTMS

NOTES:

1. TVSS SHALL BE PROVIDED FOR ALL CCTV AND RTMS DEVICES. THE TVSS SHALL BE INSTALLED IN A NEMA 4 TYPE ENCLOSURE AND MUST BE WITHIN 4' OF THE ACTUAL DEVICE. THE NEMA CABINET SHALL BE BANDED TO THE POLE.
 2. DEVICES SHALL BE TIED INTO THE LIGHTING GROUNDING SYSTEM BY ESTABLISHING A WIRE CONNECTION TO THE LUG ON THE BASE OF THE LUMINAIRES. THIS LUG SHALL BE WIRE CONNECTED TO A GROUND ROD THAT HAS BEEN INSTALLED BY OTHERS.
 3. A "J" HOOK SHALL BE INSTALLED AT ALL CABLE ENTRANCES IN THE POLE FOR CABLE SUPPORT.
 4. HAND HOLES SHALL BE INSTALLED AT ALL DEVICE PHYSICAL LOCATIONS ON THE POLE FOR ACCESS.
 5. PHOENIX CONTACT/TRABTECH
- CCTV POWER: PT-2-PE/S-120AC PLUG AND HEADER
 CCTV DATA: PT-5-HF-12DC-ST PLUG AND PT 2X2+F-BE HEADER
 CCTV VIDEO: C-UFB-5DC/E75
- DETECTOR POWER: PT-2-PE/S-24AC-ST PLUG AND PT-BE/FM HEADER
 DETECTOR DATA: PT-5-HF-12DC-ST PLUG AND PT 2X2+F-BE HEADER

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

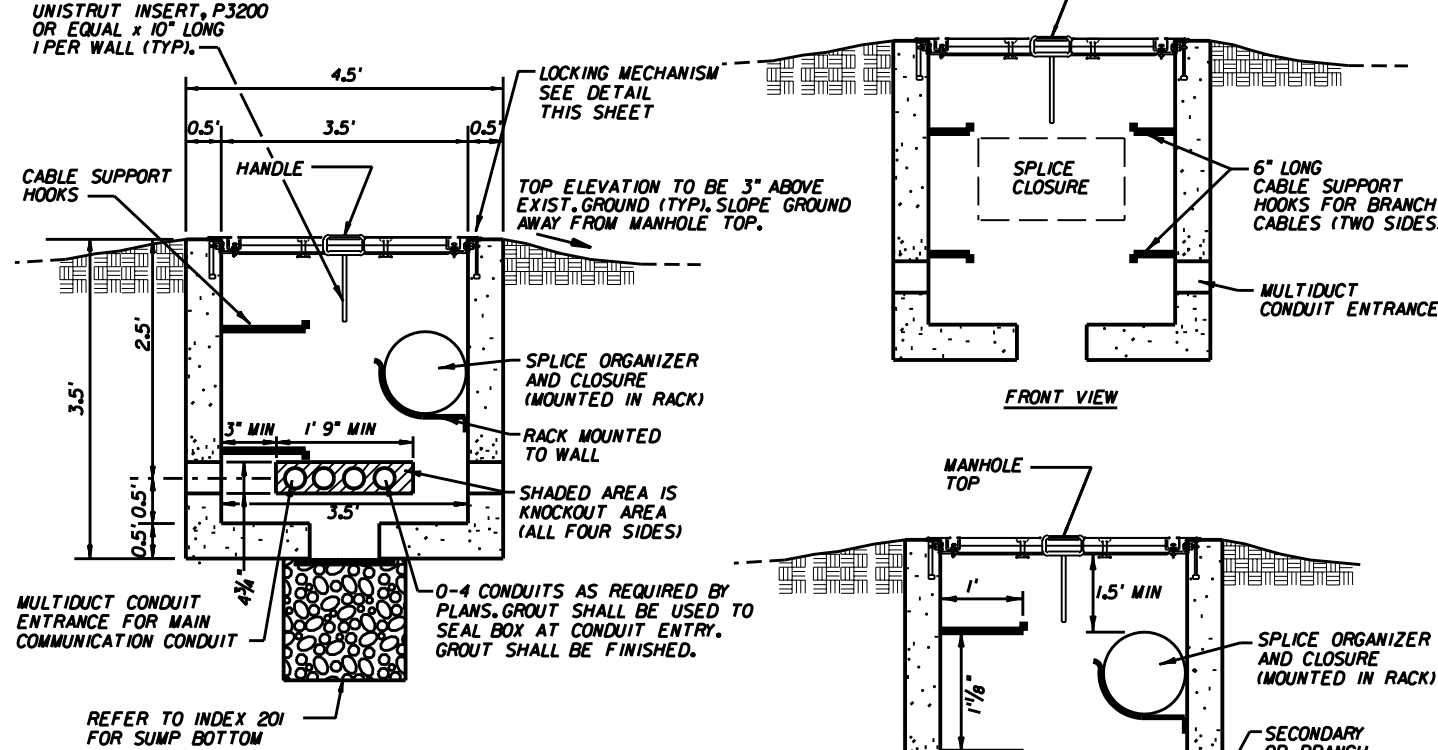
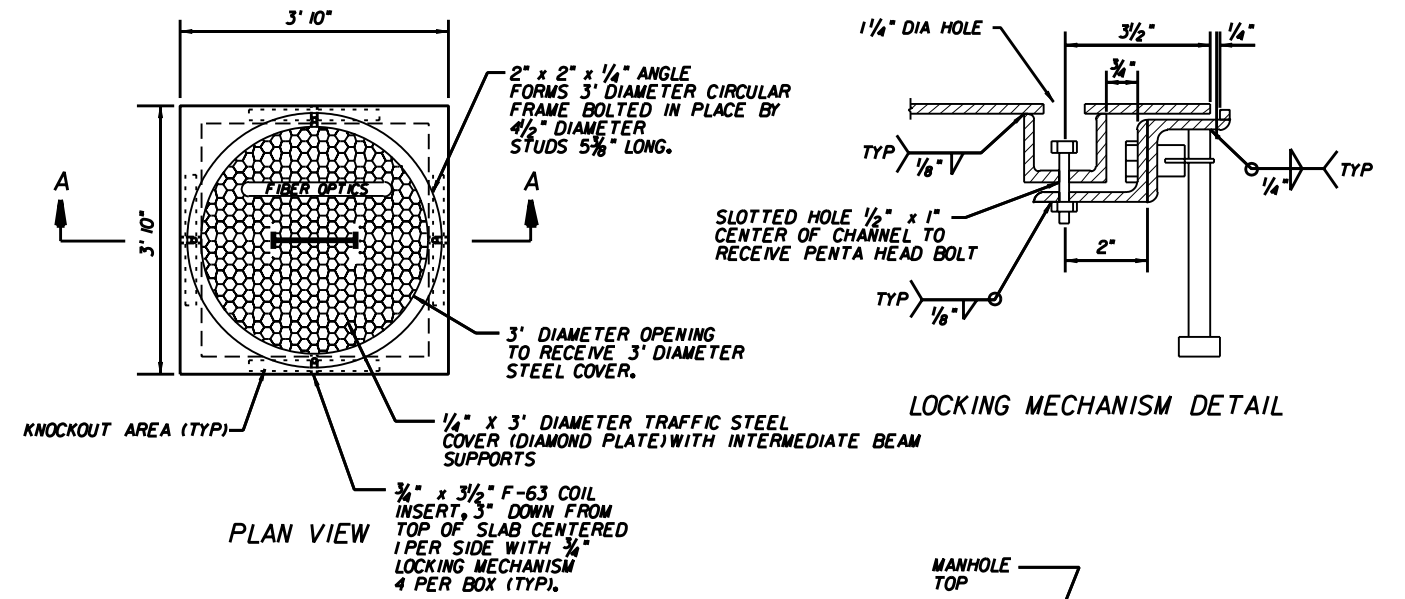
HNTB ARCHITECTS ENGINEERS PLANNERS
 The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

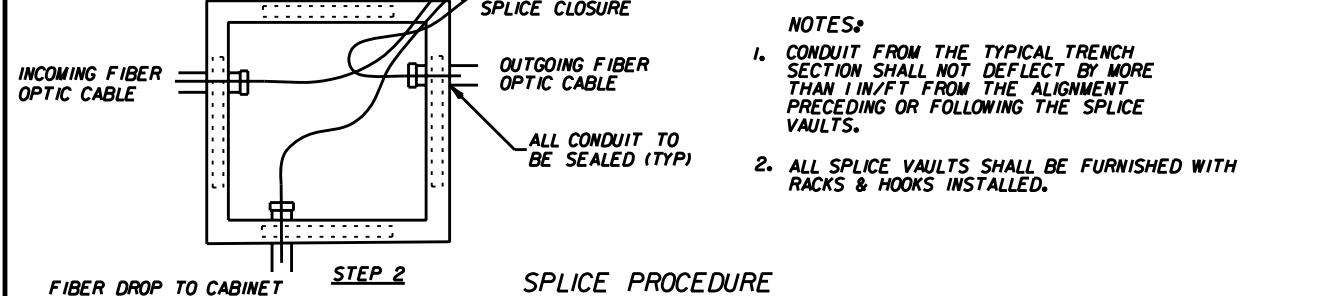
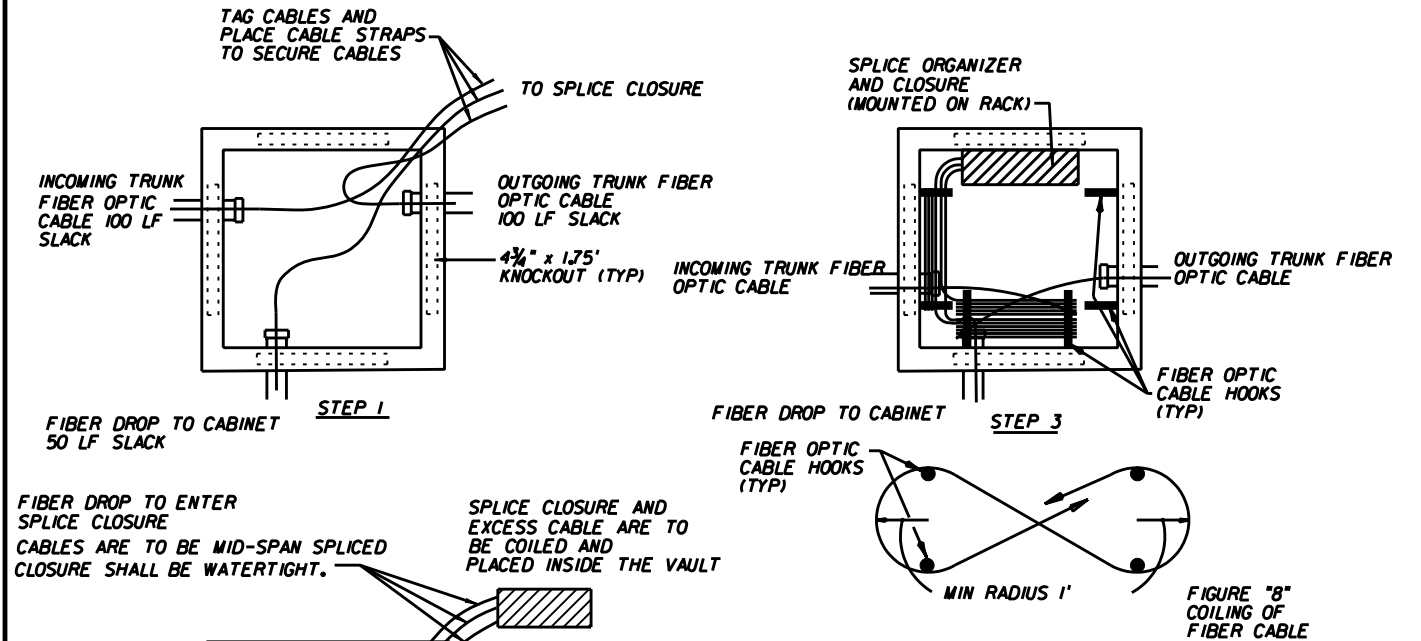
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**TYPICAL DETAILS
 TRANSIENT VOLTAGE
 SURGE SUPPRESSION**

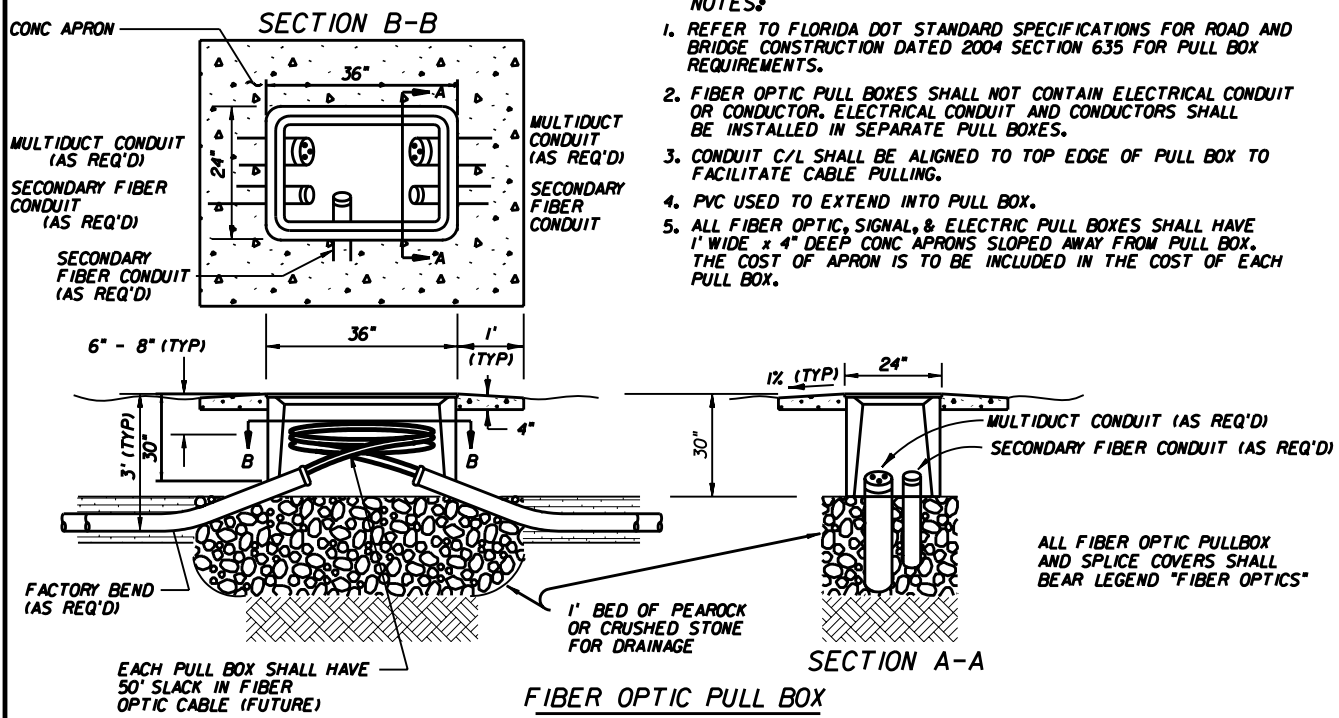
SHEET NO.
D-7



- NOTES:**
1. CONDUITS ENTER THROUGH KNOCKOUTS.
 2. LOCKING MECHANISM SHALL BE PROVIDED FOR COVER. FOUR 3" PENTA BOLTS AT 90° SHALL BE USED. ONE 3" PENTA HEAD SOCKET AND RATCHET SHALL BE PROVIDED WITH EVERY 10 SPLICE VAULTS.
 3. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL HOOKS, RACKS, FASTENERS, ANCHORS, AND STRAPS FOR USE INSIDE SPLICE VAULTS TO BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 4. FIBER OPTIC SPLICE VAULT SHALL BE PAID FOR UNDER PAY ITEM NUMBER 635-1-16.



- NOTES:**
1. CONDUIT FROM THE TYPICAL TRENCH SECTION SHALL NOT DEFLECT BY MORE THAN 1 IN/FT FROM THE ALIGNMENT PRECEDING OR FOLLOWING THE SPLICE VAULTS.
 2. ALL SPLICE VAULTS SHALL BE FURNISHED WITH RACKS & HOOKS INSTALLED.



- NOTES:**
1. REFER TO FLORIDA DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2004 SECTION 635 FOR PULL BOX REQUIREMENTS.
 2. FIBER OPTIC PULL BOXES SHALL NOT CONTAIN ELECTRICAL CONDUIT OR CONDUCTOR. ELECTRICAL CONDUIT AND CONDUCTORS SHALL BE INSTALLED IN SEPARATE PULL BOXES.
 3. CONDUIT C/L SHALL BE ALIGNED TO TOP EDGE OF PULL BOX TO FACILITATE CABLE PULLING.
 4. PVC USED TO EXTEND INTO PULL BOX.
 5. ALL FIBER OPTIC, SIGNAL, & ELECTRIC PULL BOXES SHALL HAVE 1' WIDE x 4" DEEP CONC APRONS SLOPED AWAY FROM PULL BOX. THE COST OF APRON IS TO BE INCLUDED IN THE COST OF EACH PULL BOX.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

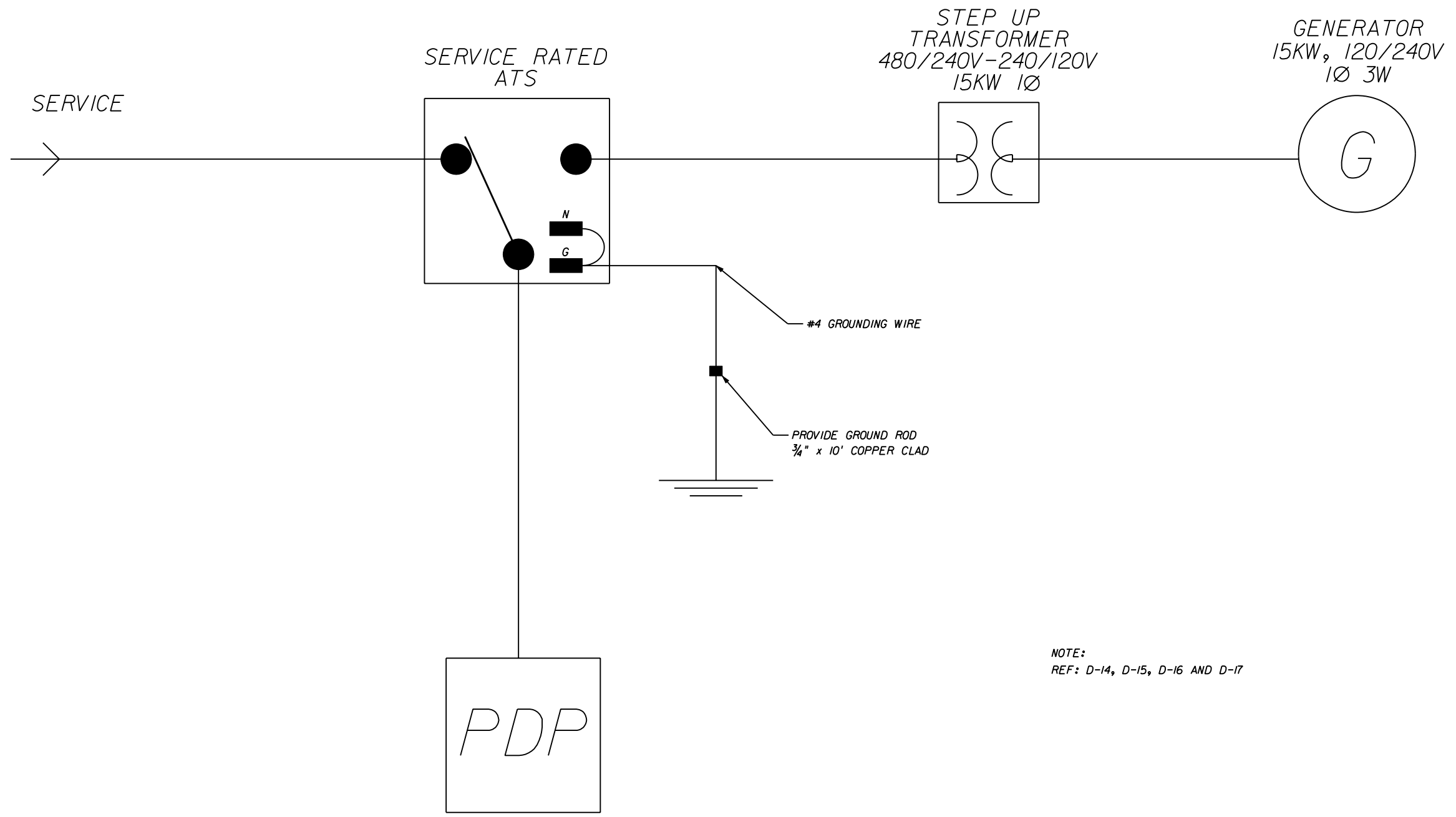
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

TYPICAL DETAILS
FIBER OPTIC
PULL BOX DETAILS

SHEET NO.
D-8



NOTE:
REF: D-14, D-15, D-16 AND D-17

REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES 510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			TYPICAL DETAILS GROUNDING	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		D-9
							S.R. 618	HILLSBOROUGH	53.41.01		

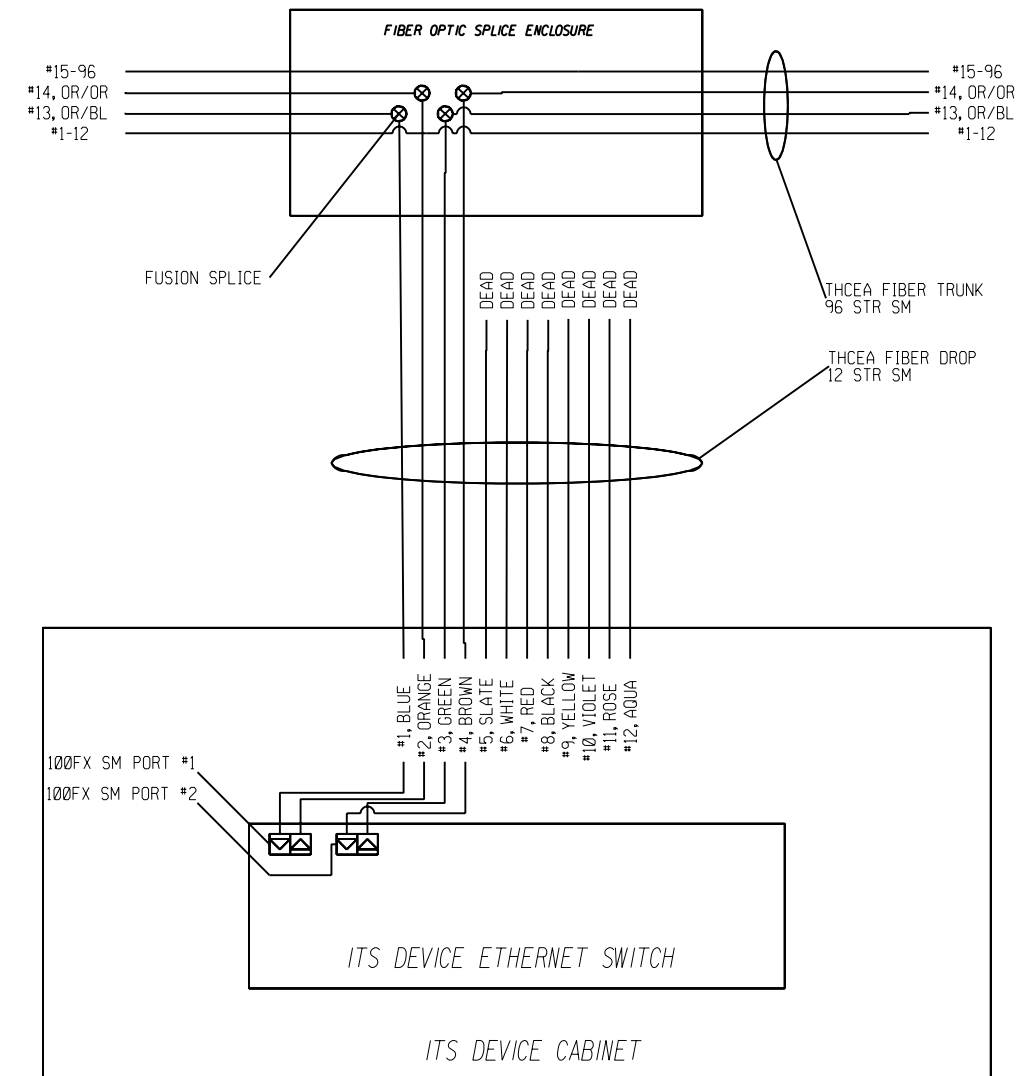
FIBER OPTIC DROP ALLOCATION TABLE
FOR A.C.N. CABINETS

# OF FIBERS	ALLOCATED USE
1-4	GIGABIT ETHERNET
5-8	FIELD DEVICE CIRCUITS 100FX ETHERNET
9-12	FUTURE

FIBER OPTIC DROP ALLOCATION TABLE
FOR ITS DEVICE LOCATIONS

# OF FIBERS	ALLOCATED USE
1-4	FIELD DEVICE CIRCUITS 100FX ETHERNET
5-8	FUTURE
9-12	FUTURE

TYPICAL FIBER SPLICE - COMMUNICATION CABINET



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

**TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

**TYPICAL DETAILS
DROP FIBER ALLOCATION
AND ITS DEVICE SPLICE**

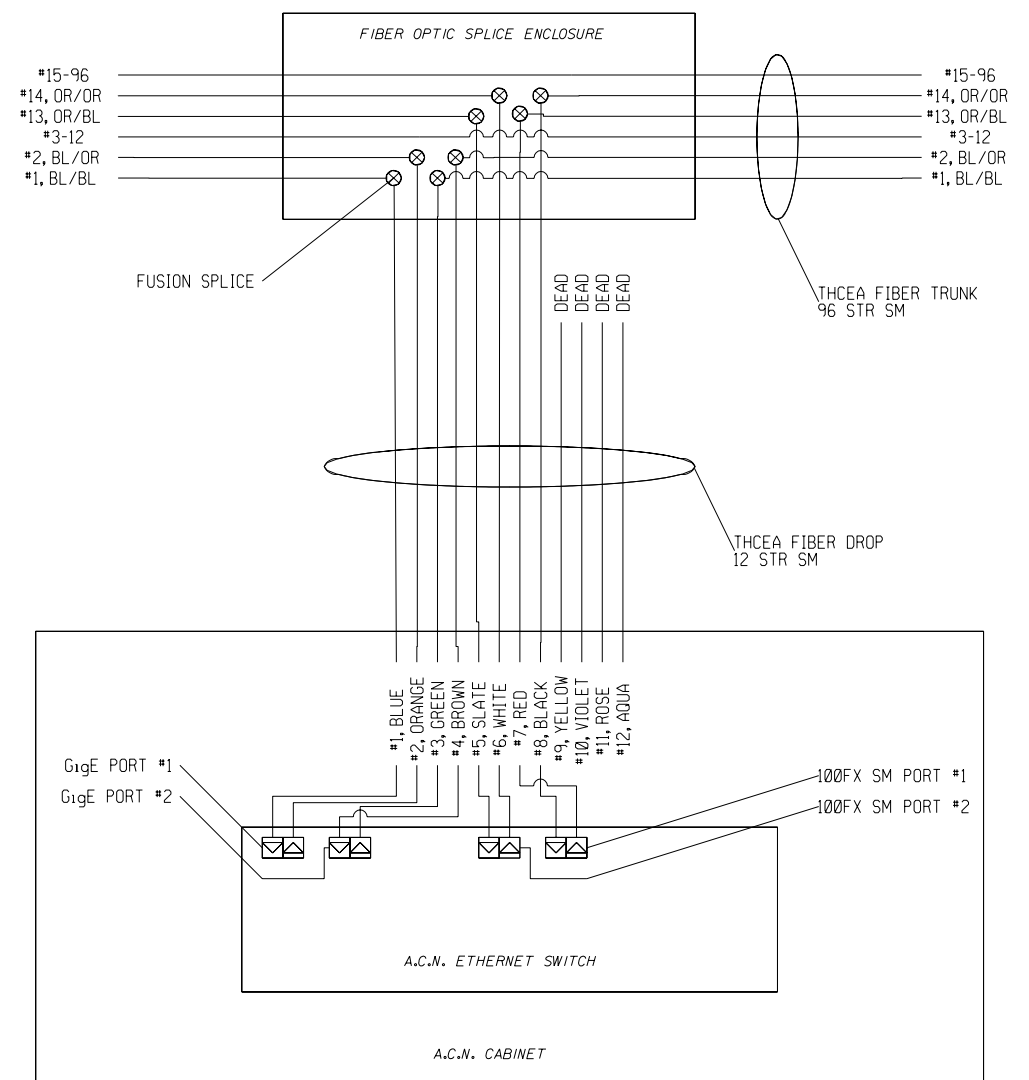
SHEET NO.

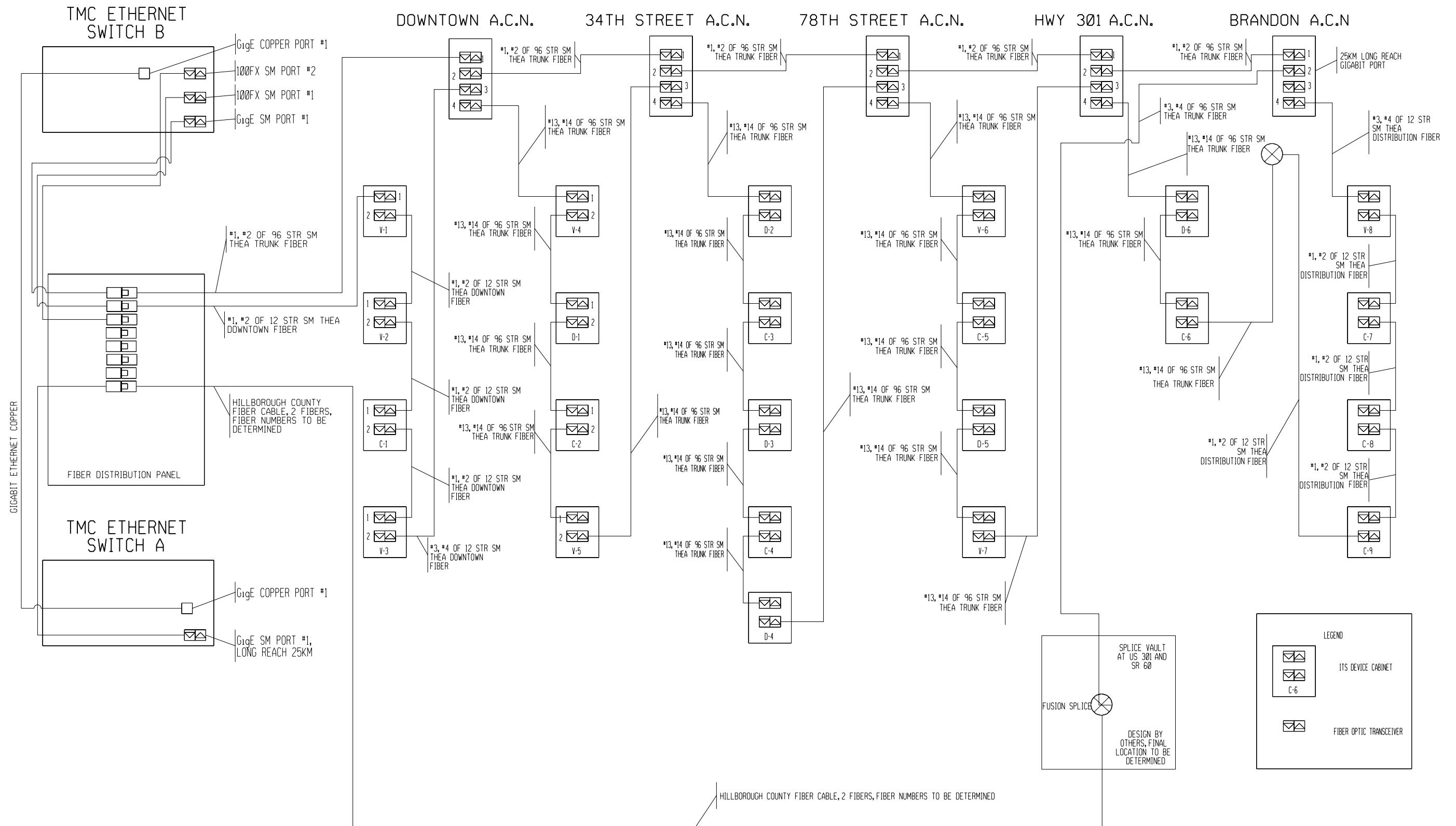
D-10

FIBER OPTIC TRUNK ALLOCATION TABLE

LOOSE TUBE/ # OF FIBERS	ALLOCATED USE
BLUE 1-12	GIGABIT ETHERNET
ORANGE 13-24	FIELD DEVICE CIRCUITS 100FX ETHERNET
GREEN 25-36	FUTURE
BROWN 37-48	FUTURE
SLATE 49-60	FUTURE
WHITE 61-72	FUTURE
RED 73-84	FUTURE
BLACK 85-96	FUTURE

TYPICAL FIBER SPLICE - A.C.N. CABINET





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

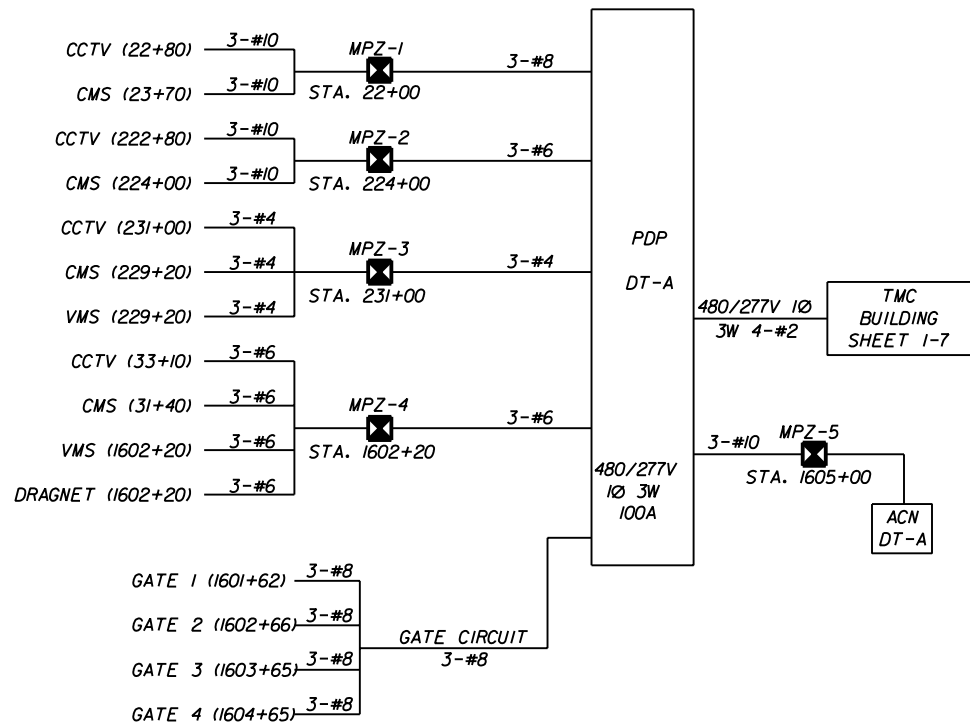
**TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

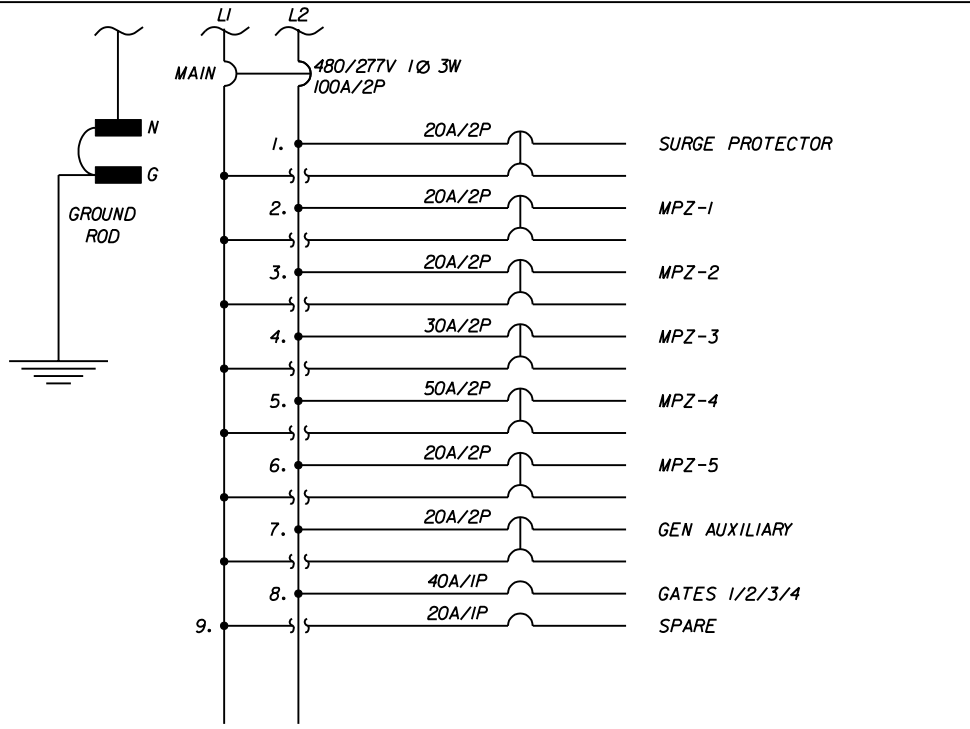
**TYPICAL DETAILS
FIBER OPTIC
NETWORK SCHEMATIC**

SHEET NO.

D-12

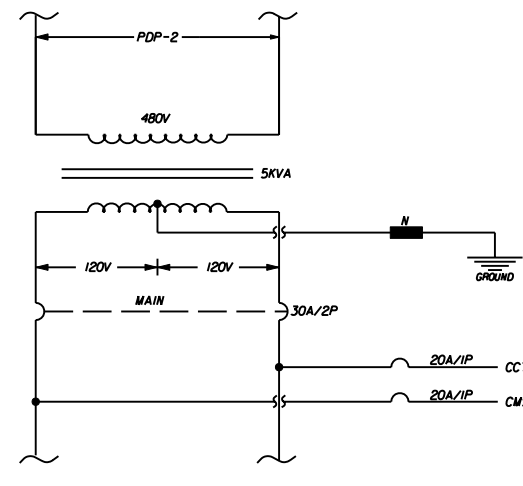


ONE LINE POWER DISTRIBUTION DIAGRAM



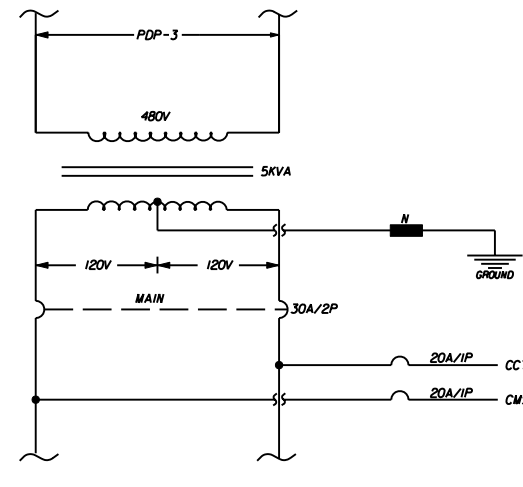
PROVIDE (4) -20A/2P SPARE BREAKERS, 24 CIRCUIT PANEL

PDP DT-A CIRCUIT SCHEDULE



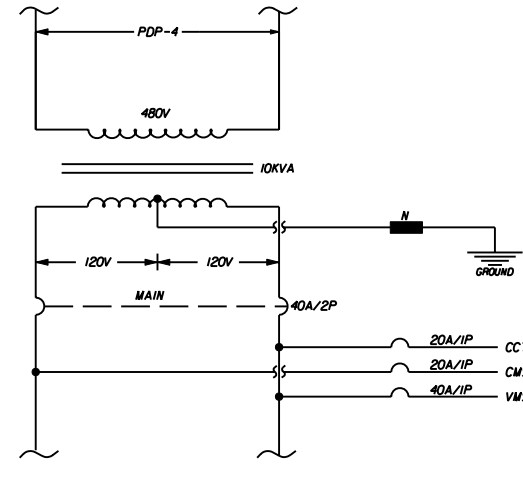
MPZ-1 (5 KVA TRANSFORMER)

PROVIDE (10) - 20A/1P SPARE BREAKERS



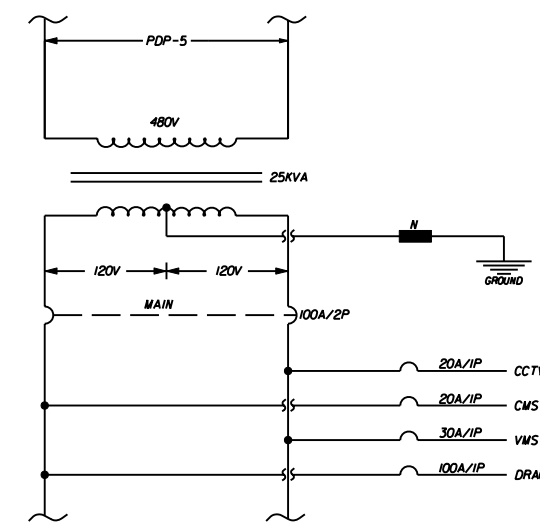
MPZ-2 (5 KVA TRANSFORMER)

PROVIDE (10) - 20A/1P SPARE BREAKERS



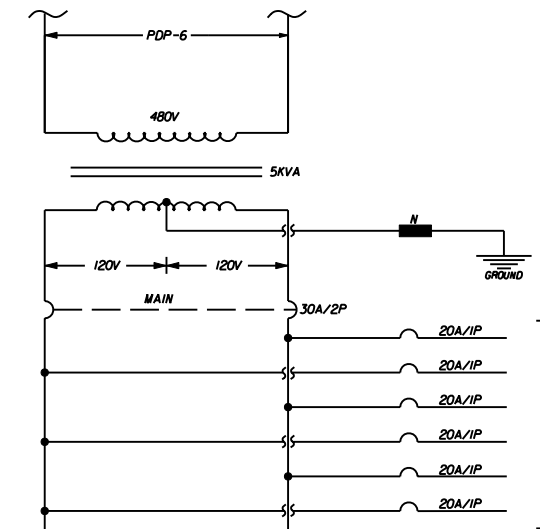
MPZ-3 (10 KVA TRANSFORMER)

PROVIDE (9) - 20A/1P SPARE BREAKERS



MPZ-4 (25 KVA TRANSFORMER)

PROVIDE (8) - 20A/1P SPARE BREAKERS



MPZ-5 (5 KVA TRANSFORMER)

PROVIDE TOTAL (12) - 20A/1P BREAKERS

ACN AUXILIARY CIRCUITS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

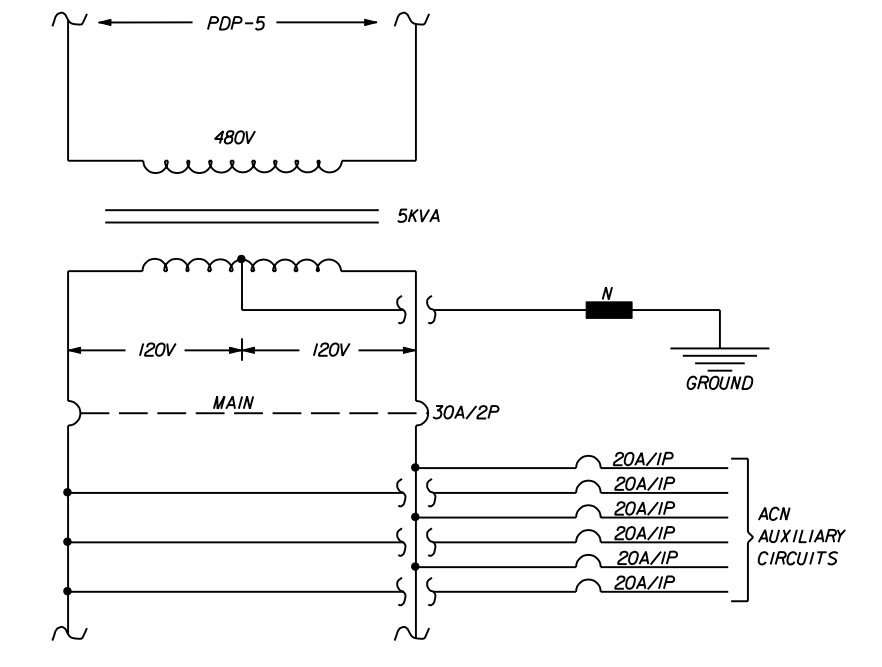
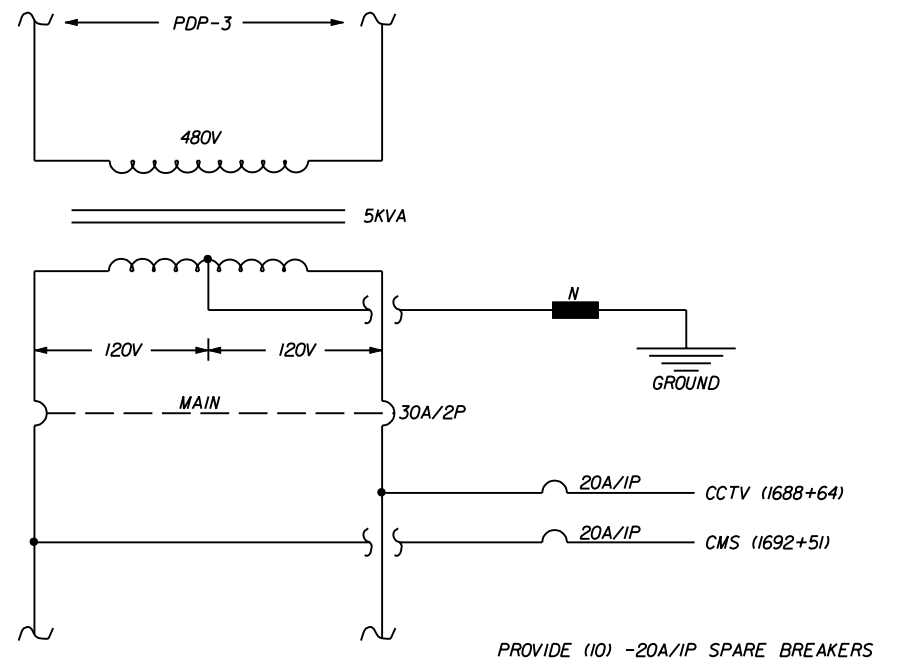
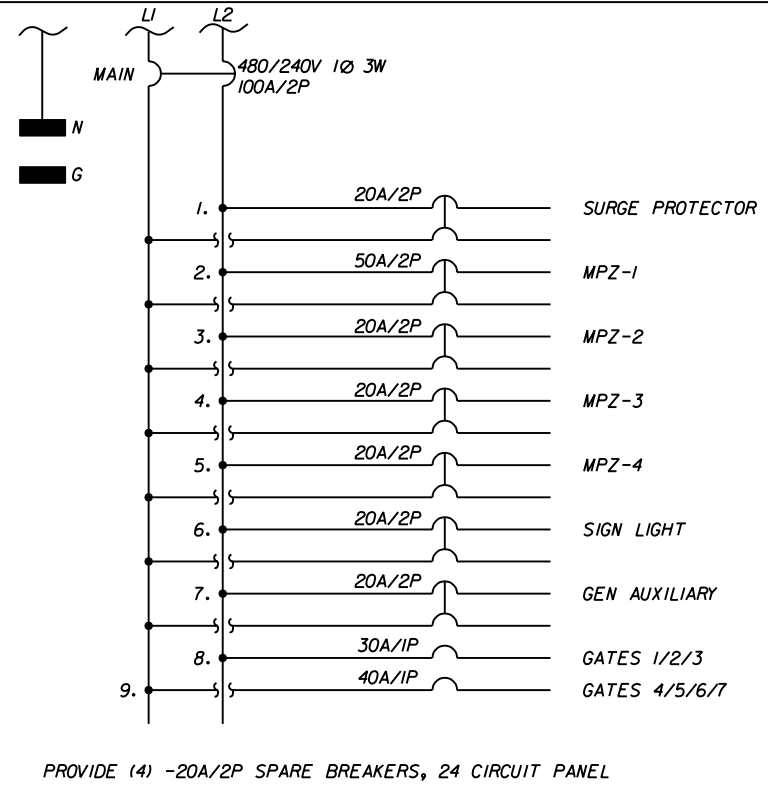
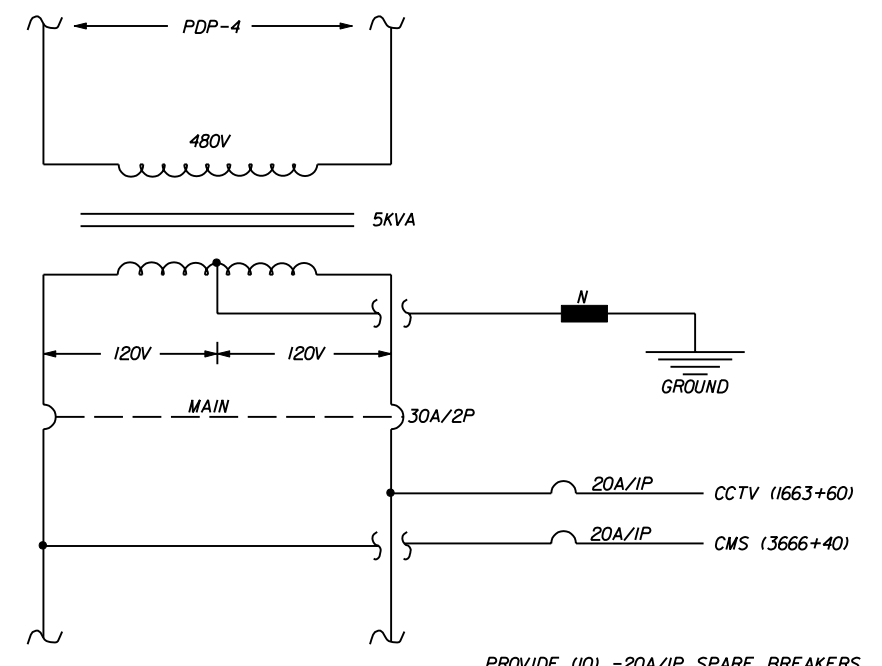
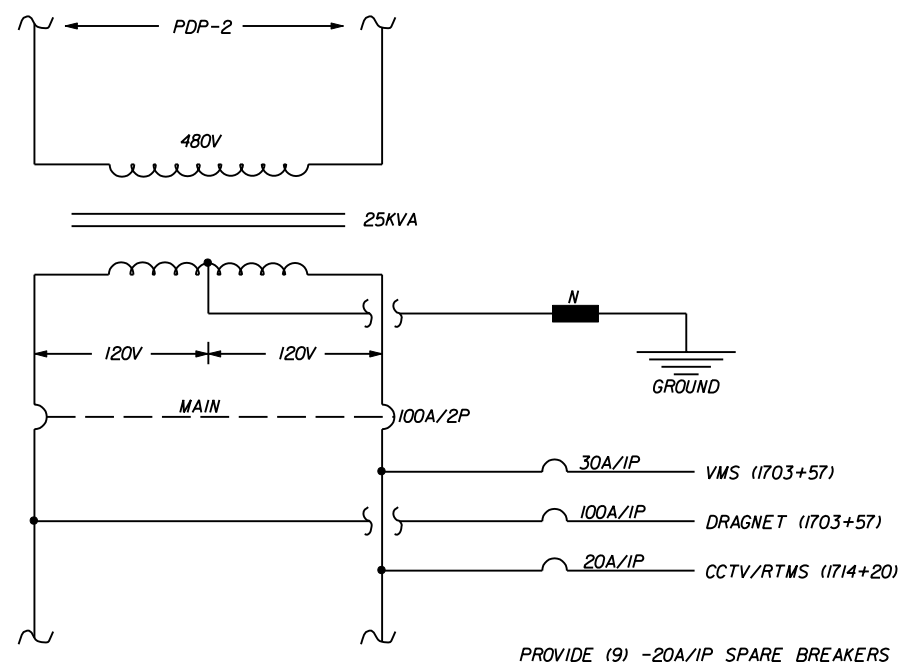
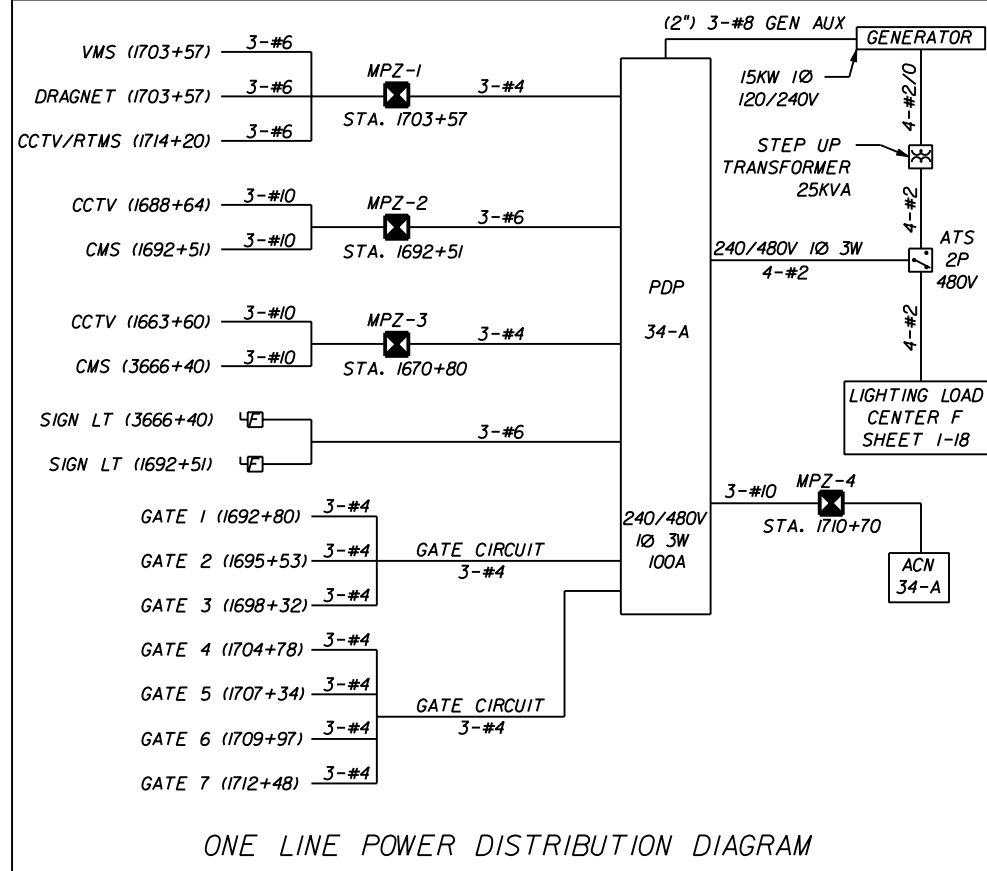
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

TYPICAL DETAILS
DOWNTOWN PDP CIRCUITS

SHEET NO.
D-13



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

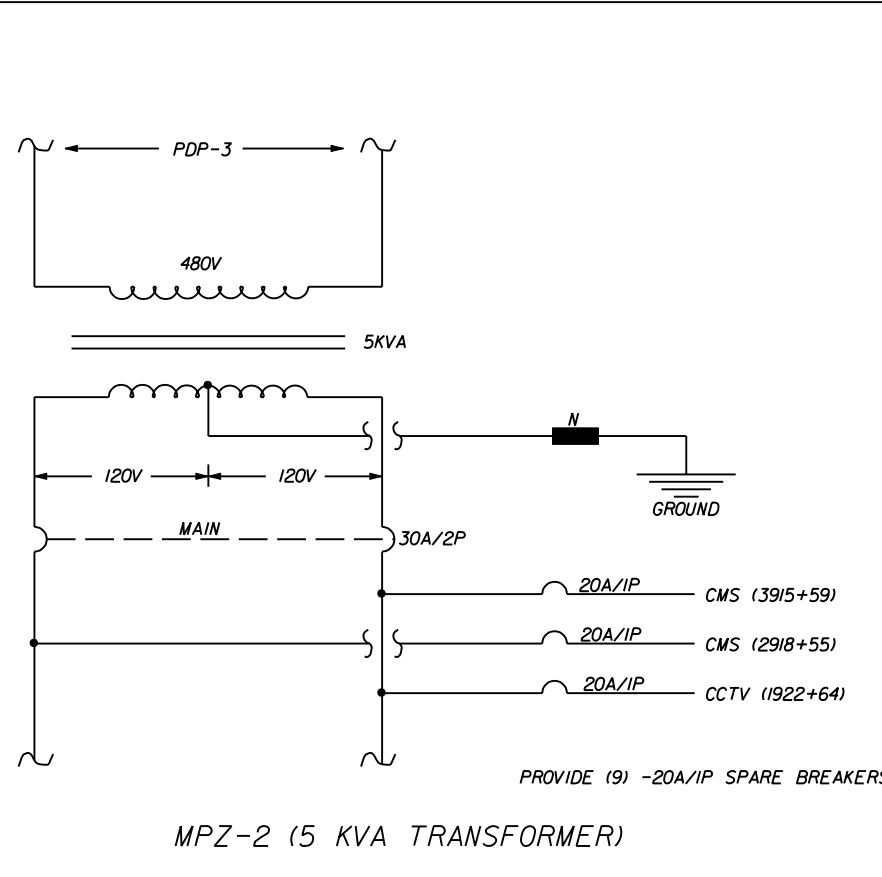
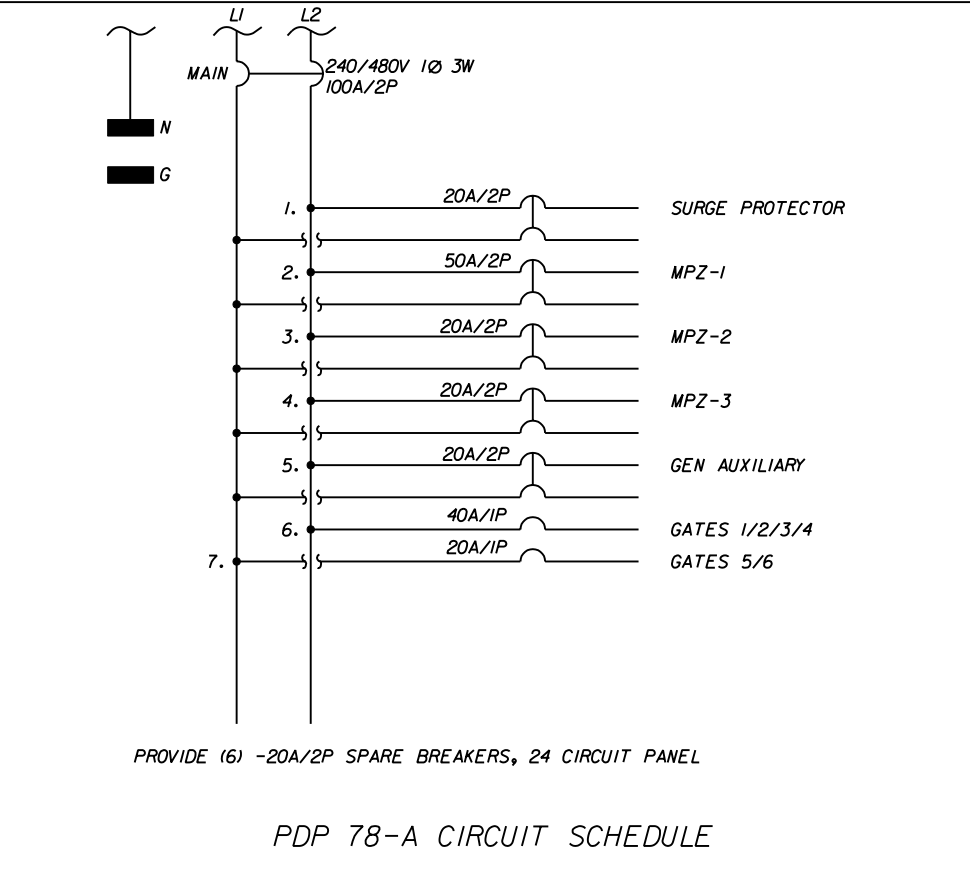
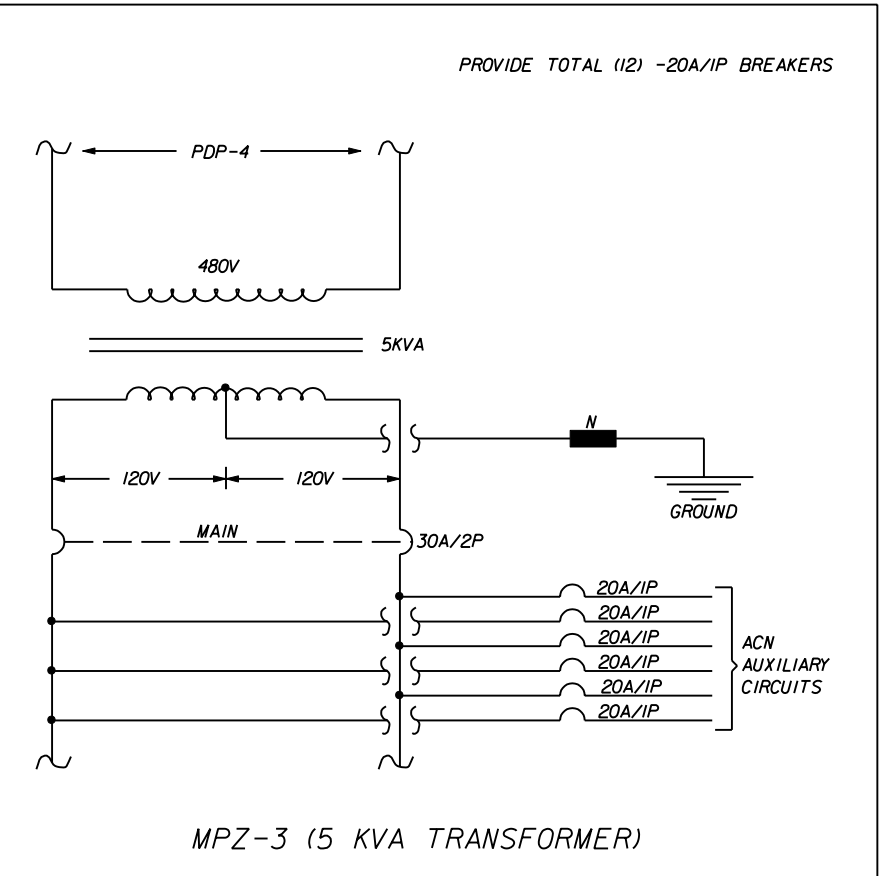
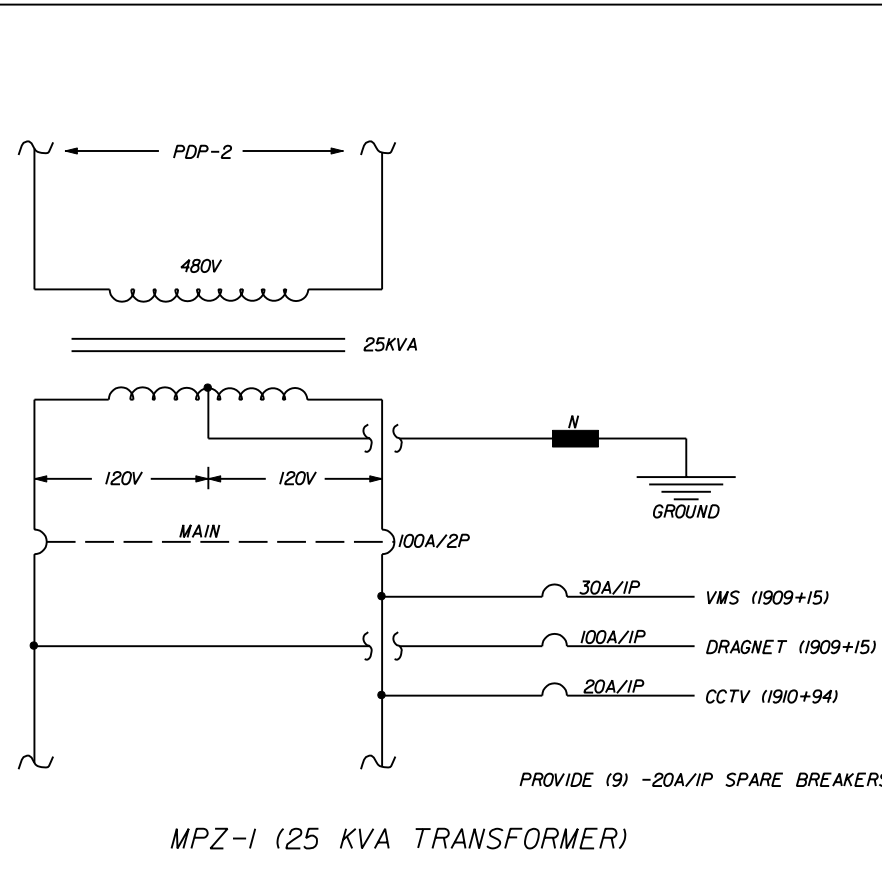
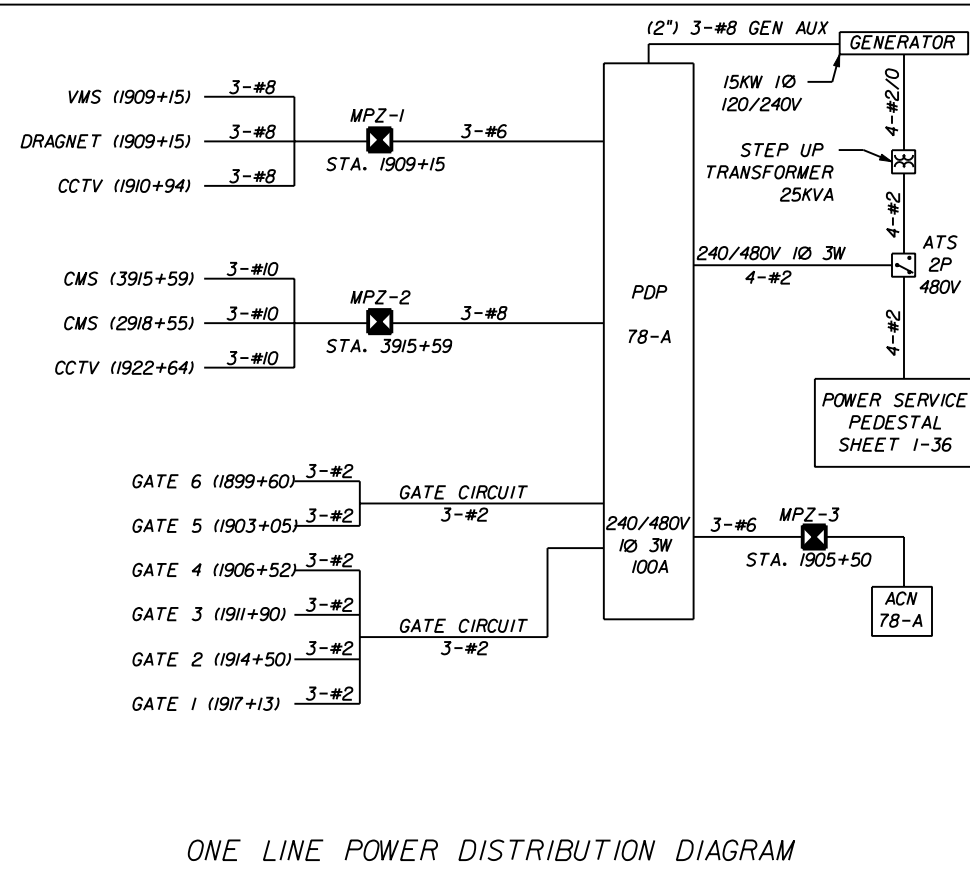
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

TYPICAL DETAIL

34th STREET PDP CIRCUITS

SHEET NO. **D-14**



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

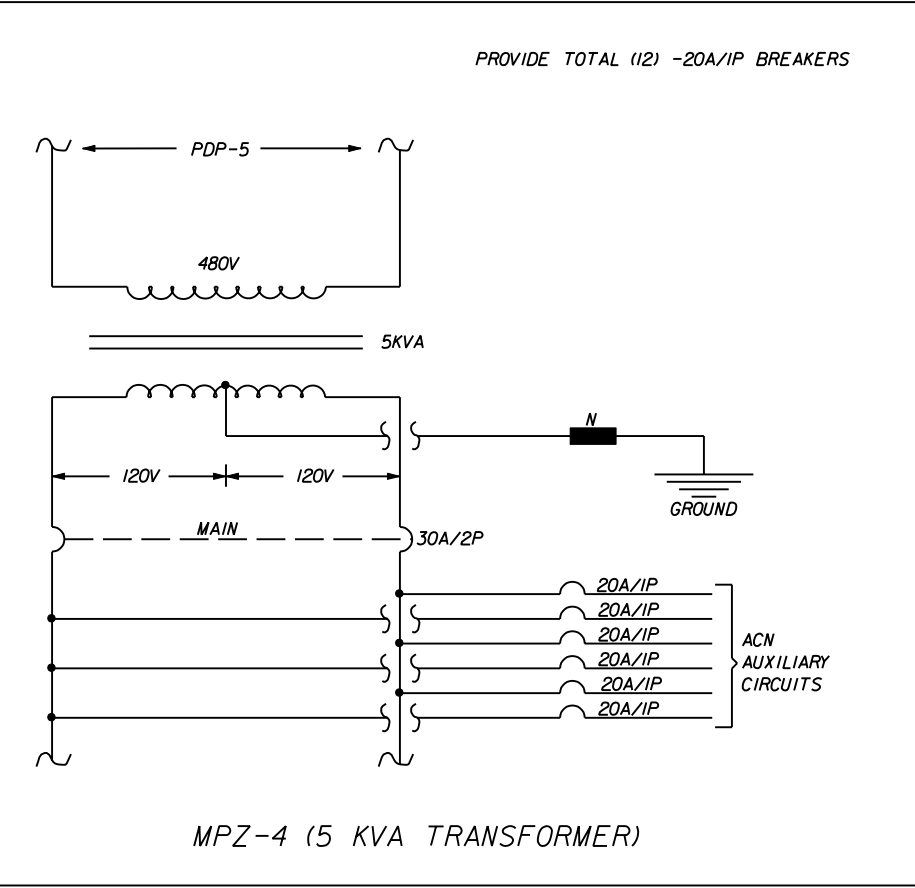
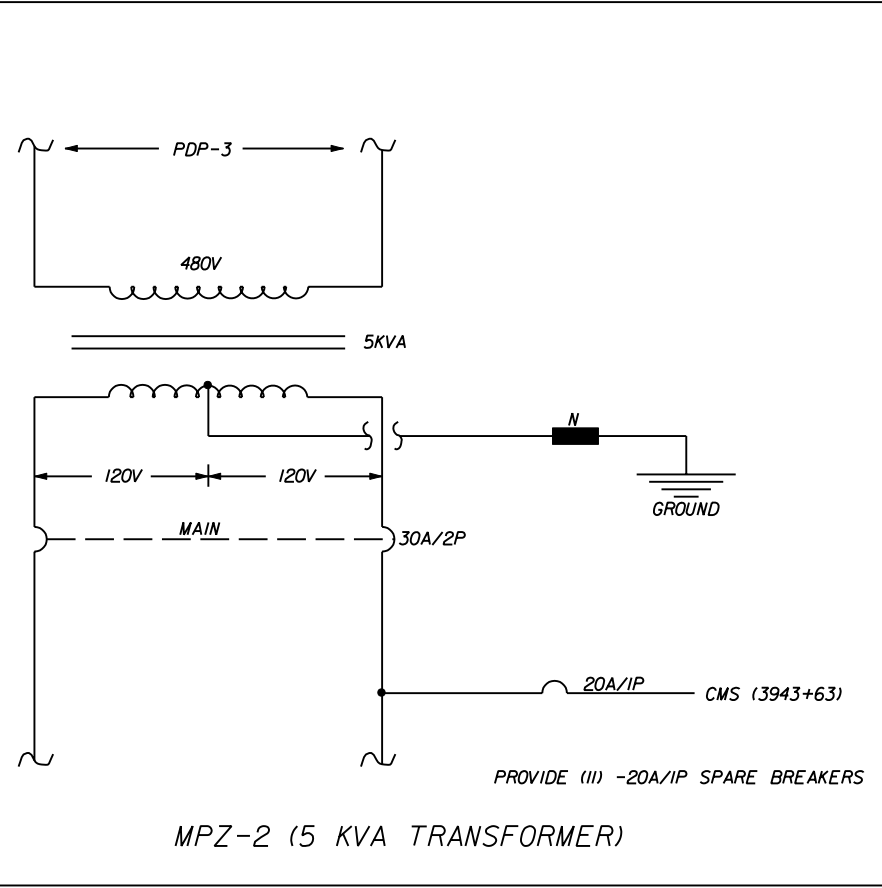
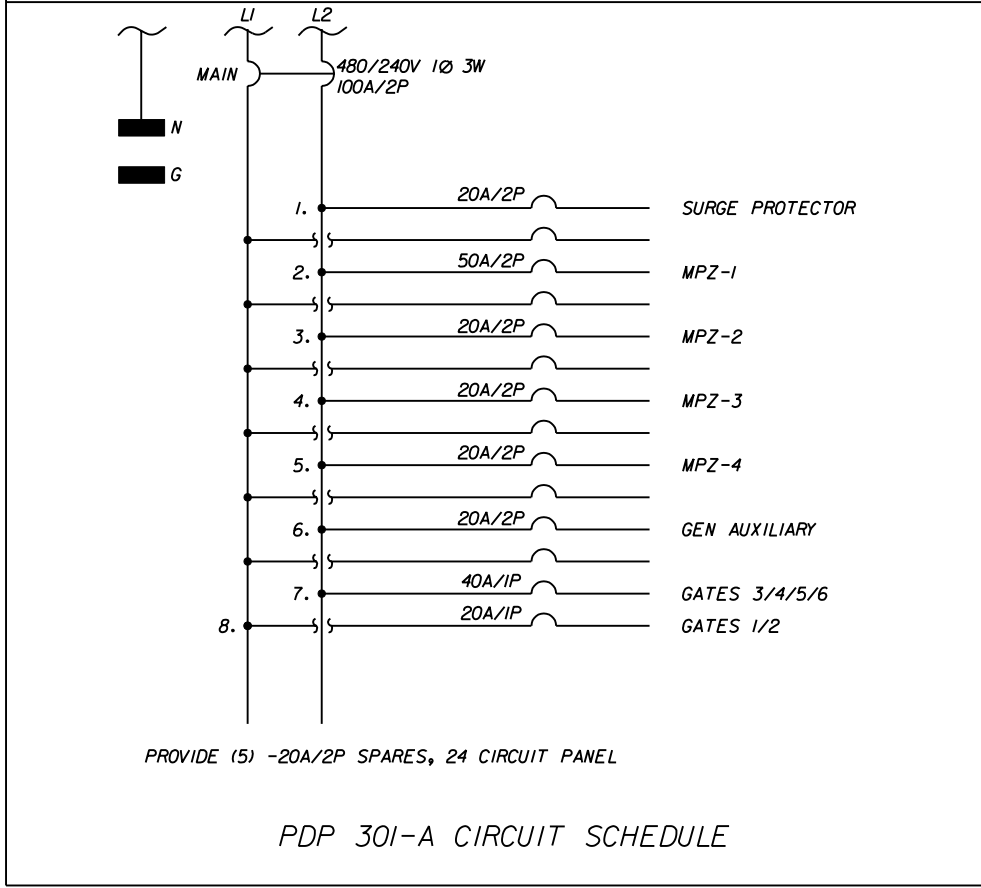
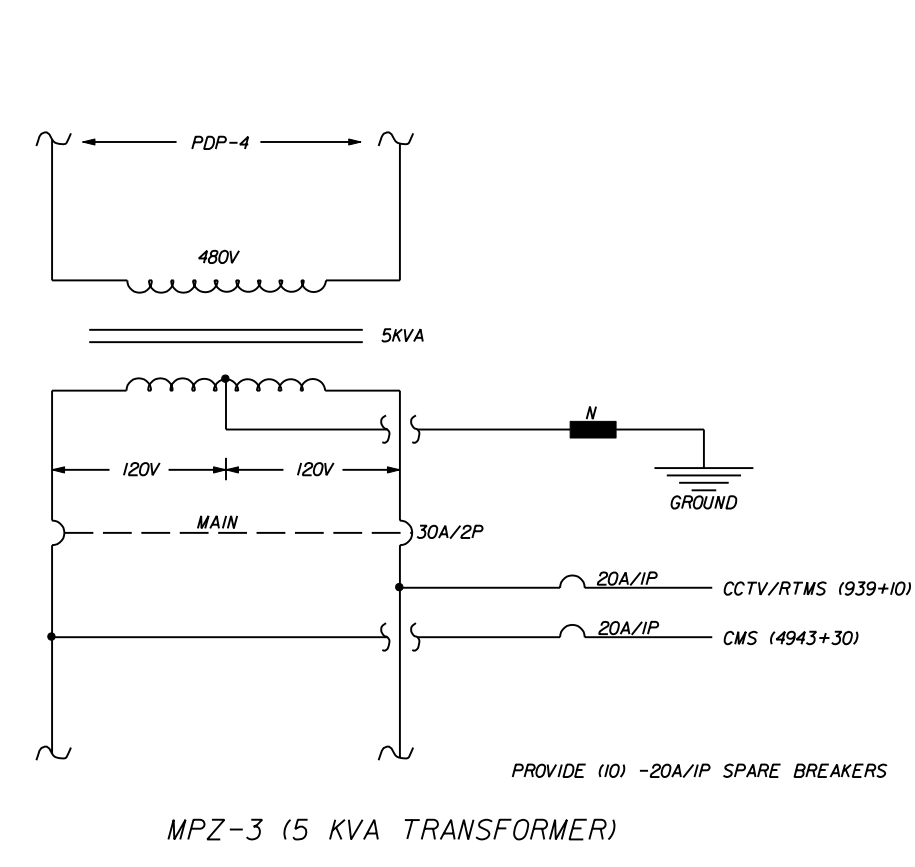
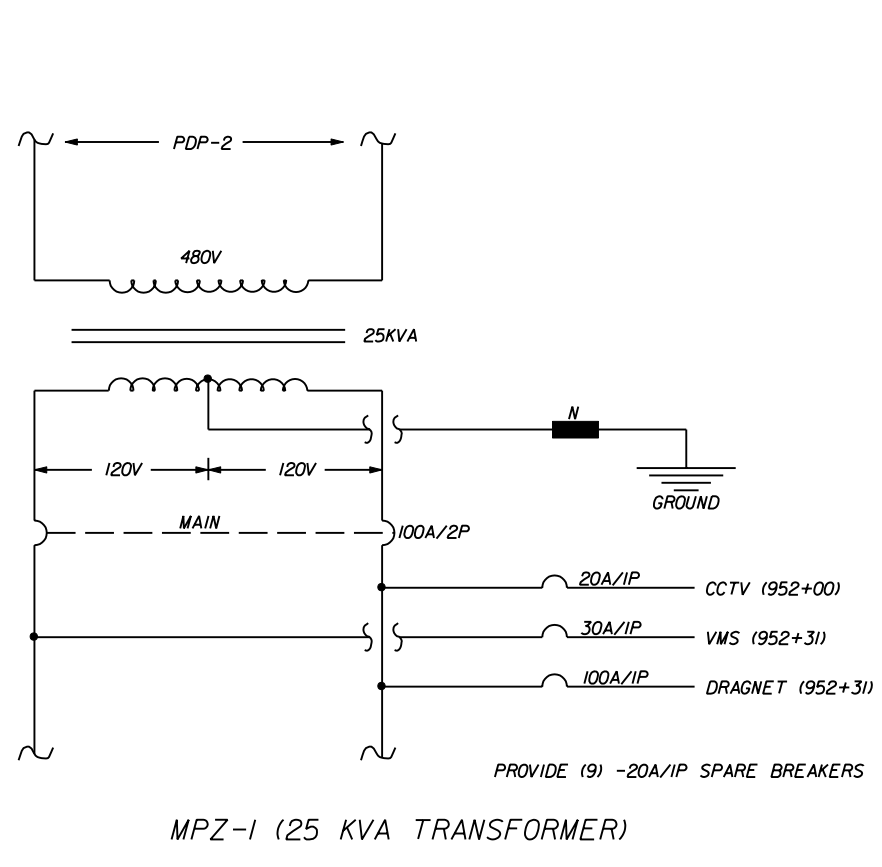
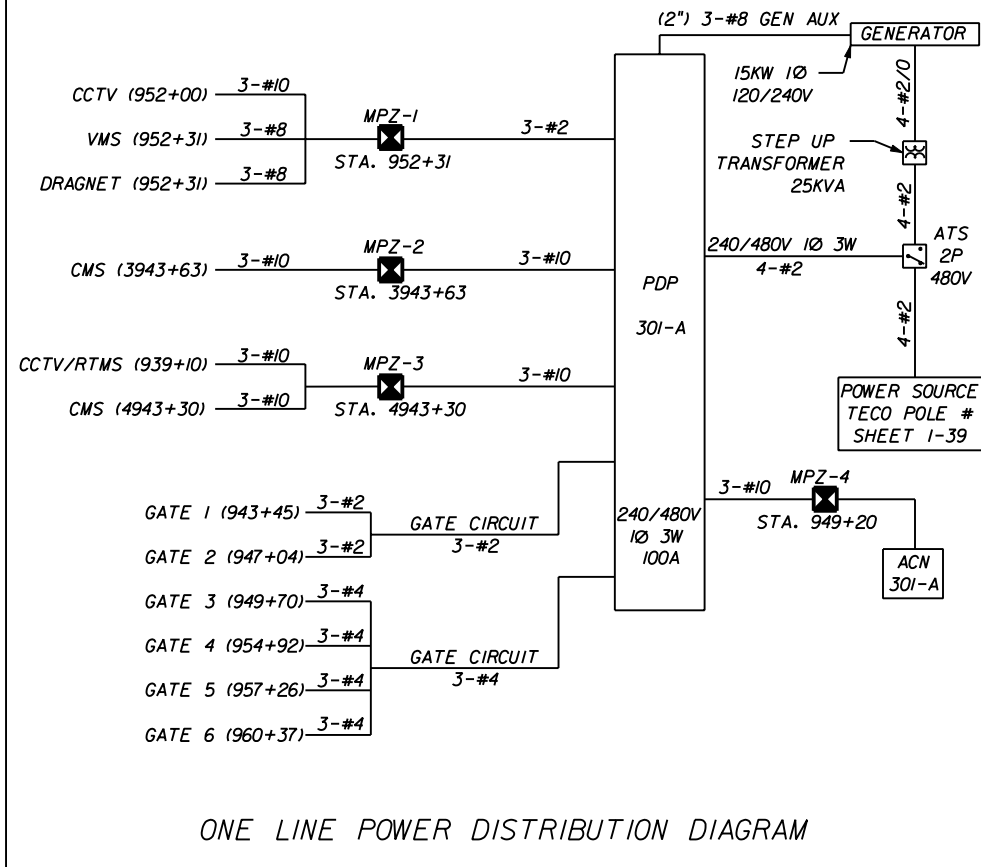
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

TYPICAL DETAIL
78th STREET PDP CIRCUITS

SHEET NO.
D-15



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

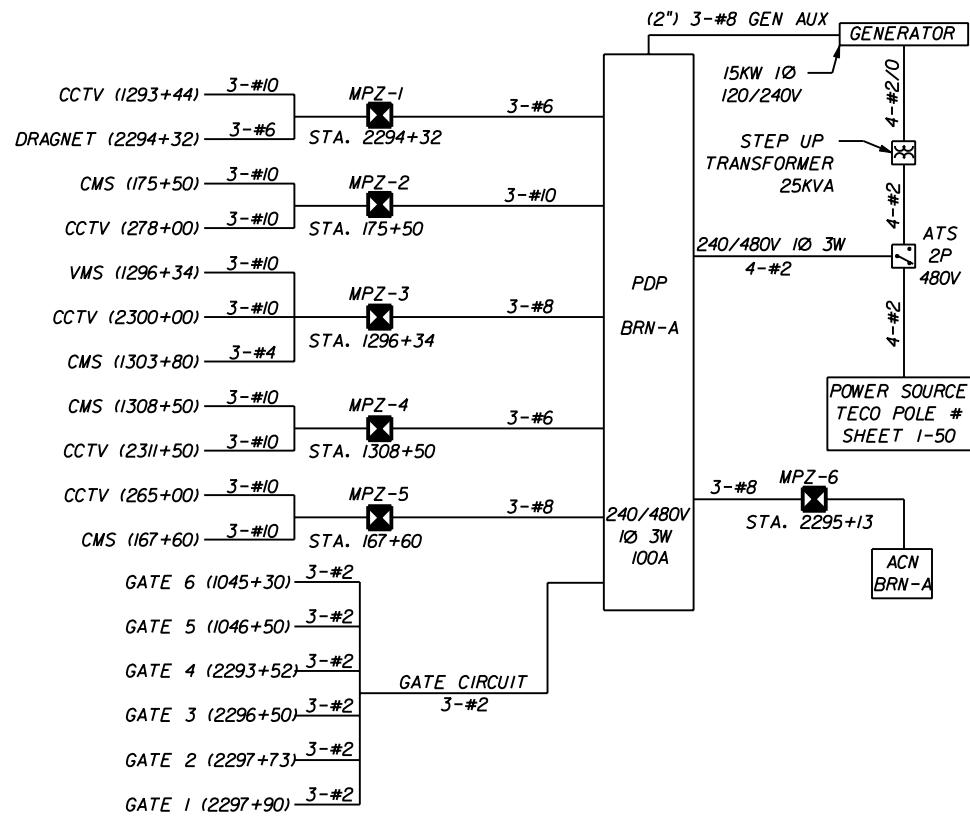
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

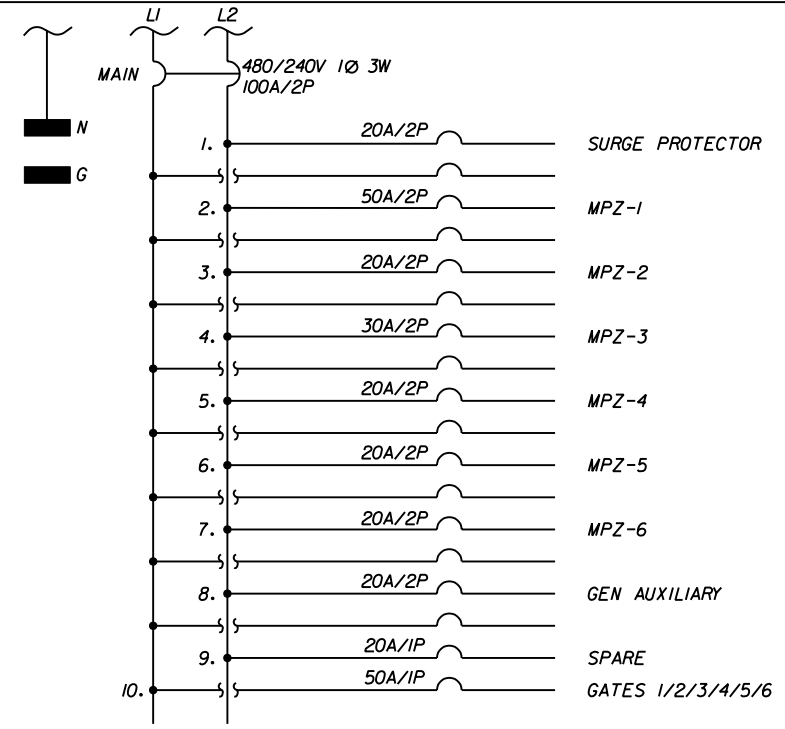
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TYPICAL DETAIL
HIGHWAY 301 PDP CIRCUITS

SHEET NO.
D-16

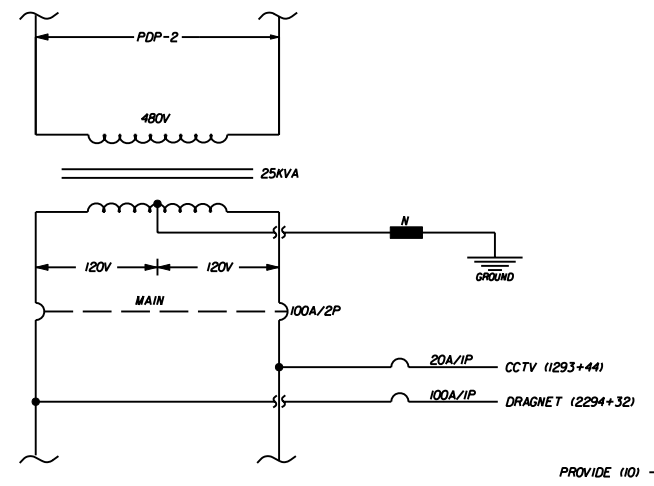


ONE LINE POWER DISTRIBUTION DIAGRAM



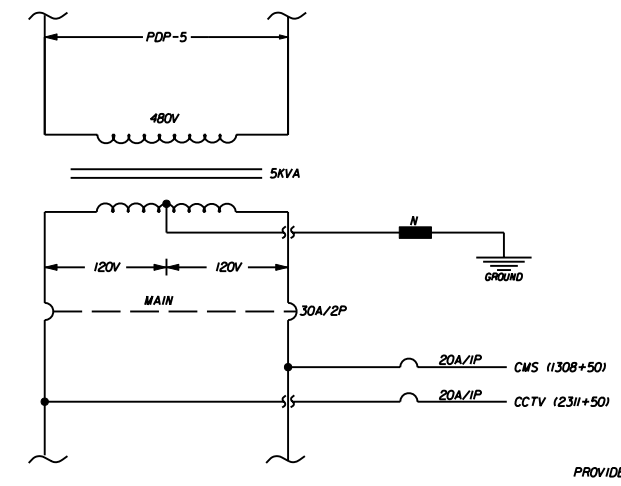
PROVIDE (3) - 20A/2P SPARE BREAKERS, 24 CIRCUIT PANEL

PDP BRN-A CIRCUIT SCHEDULE



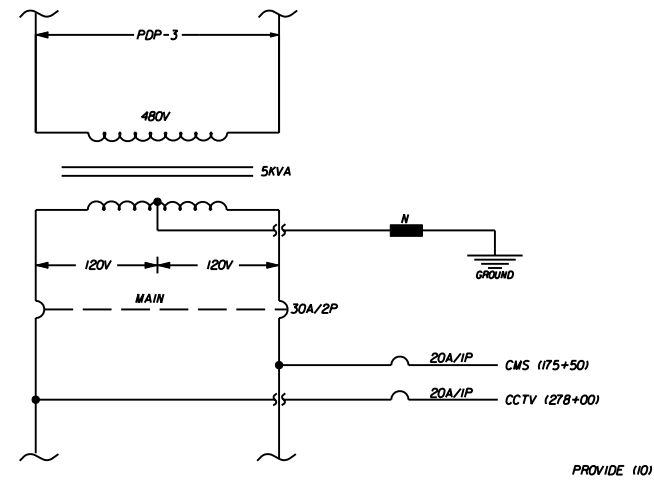
MPZ-1 (25 KVA TRANSFORMER)

PROVIDE (10) - 20A/IP SPARE BREAKERS



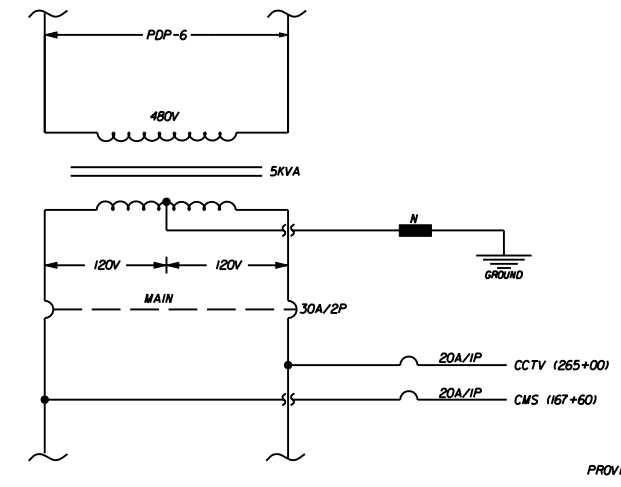
MPZ-4 (5 KVA TRANSFORMER)

PROVIDE (10) - 20A/IP SPARE BREAKERS



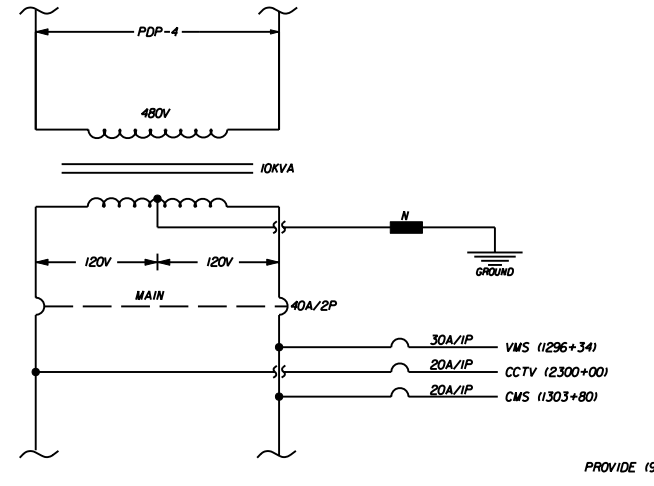
MPZ-2 (5 KVA TRANSFORMER)

PROVIDE (10) - 20A/IP SPARE BREAKERS



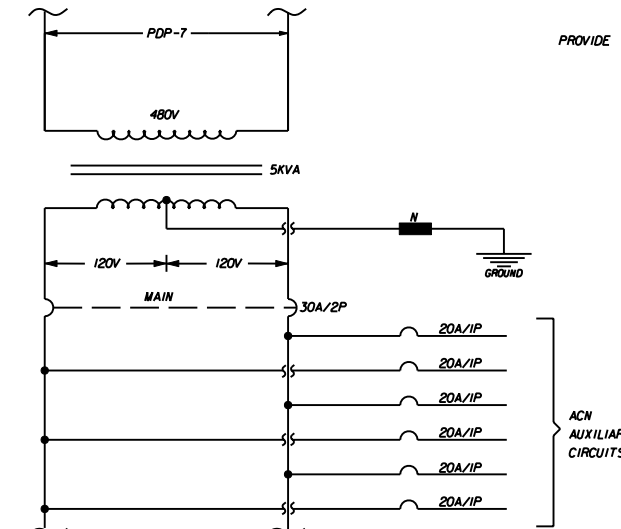
MPZ-5 (5 KVA TRANSFORMER)

PROVIDE (10) - 20A/IP SPARE BREAKERS



MPZ-3 (10 KVA TRANSFORMER)

PROVIDE (9) - 20A/IP SPARE BREAKERS



MPZ-6 (5 KVA TRANSFORMER)

PROVIDE TOTAL (12) - 20A/IP BREAKERS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

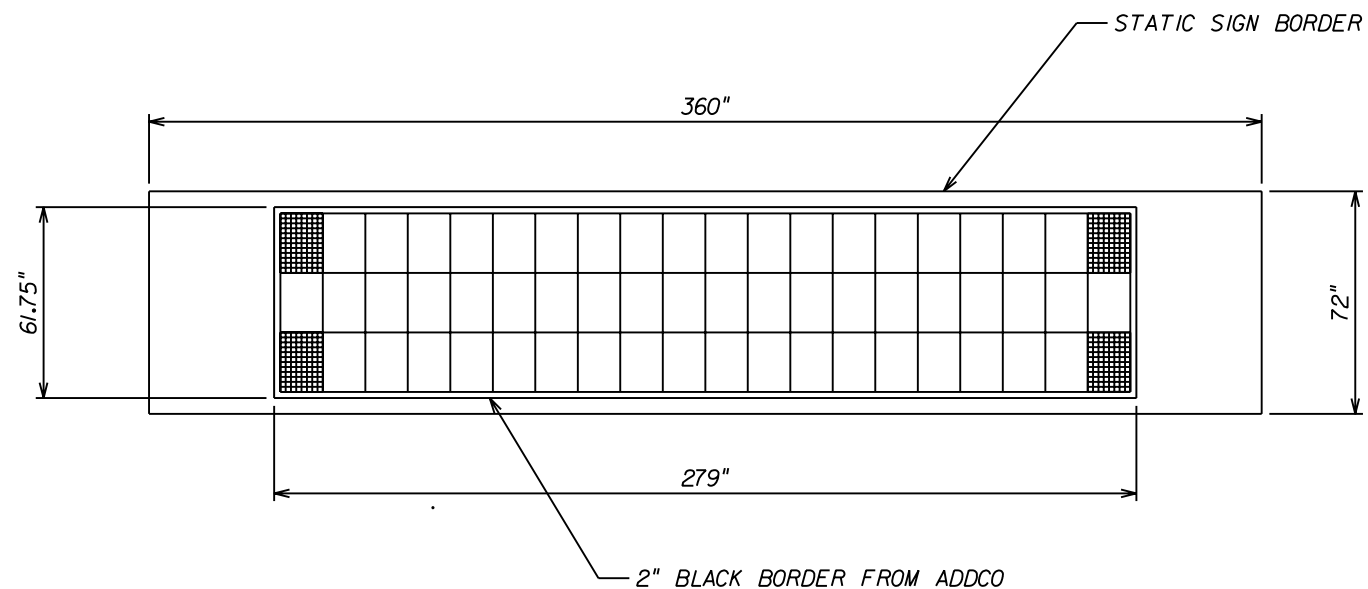
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

TYPICAL DETAILS
BRANDON PDP CIRCUITS

SHEET NO.
D-17

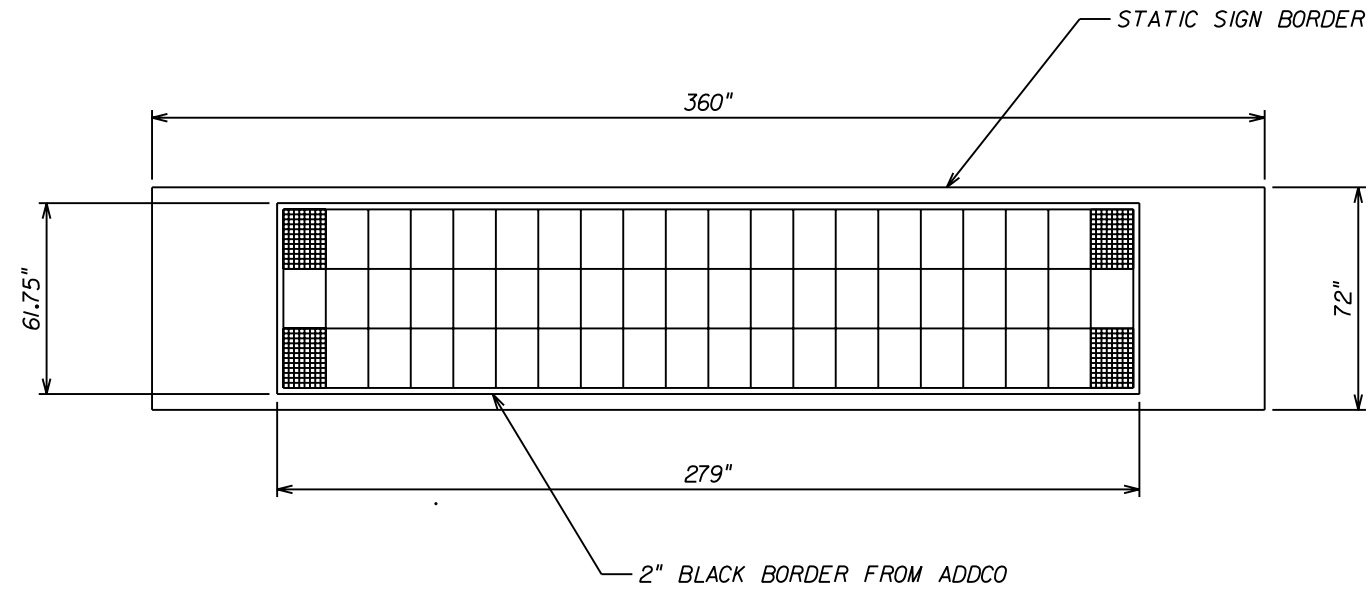
VARIABLE MESSAGE SIGN




SIGN NAME	MER-VSOI
SIGN TYPE	VMS
STATION NO.	STA 208+40
NO. OF BRICKS	3 X 20 = 60
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS <small>The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			VMS/CMS DESIGN WORK SHEET	SHEET NO. V-01
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						<small>510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770</small>	S.R. 618	HILLSBOROUGH	53.41.01		

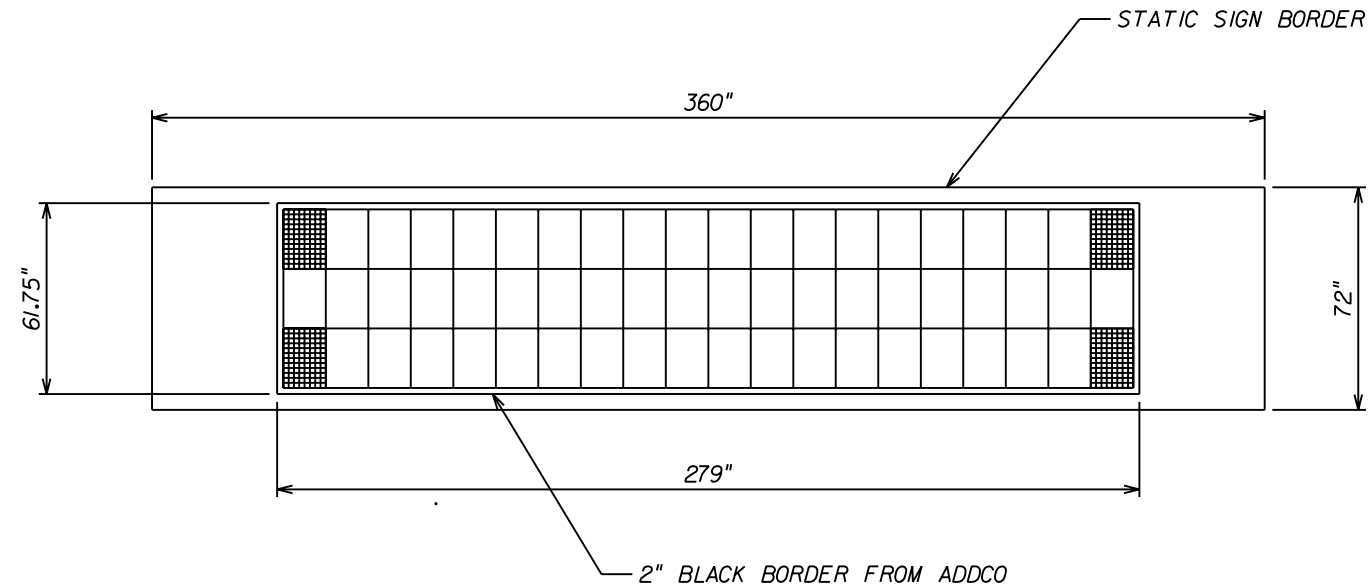
VARIABLE MESSAGE SIGN




SIGN NAME	MER-VS02
SIGN TYPE	VMS
STATION NO.	STA 229+20
NO. OF BRICKS	3 X 20 = 60
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS						 HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			VMS/CMS DESIGN WORK SHEET	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		V-02
						510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	S.R. 618	HILLSBOROUGH	53.41.01		

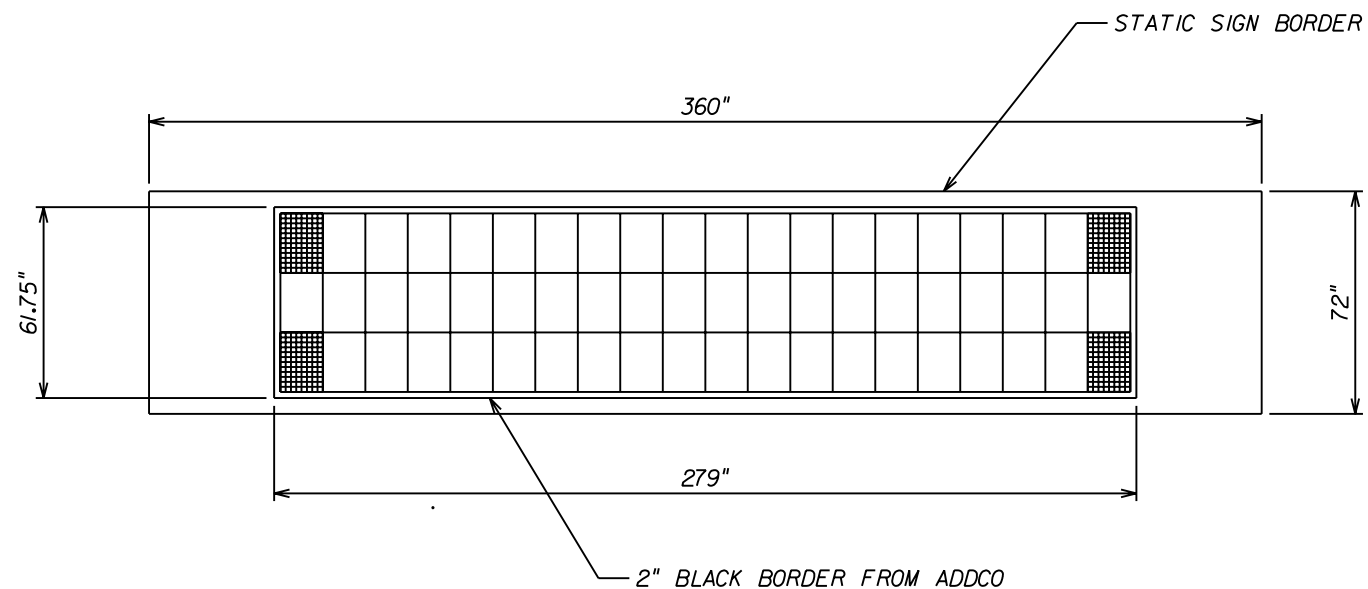
VARIABLE MESSAGE SIGN



SIGN NAME	618-VW03
SIGN TYPE	VMS
STATION NO.	STA 1626+43
NO. OF BRICKS	3 X 20 = 60
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS						 <small>ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			VMS/CMS DESIGN WORK SHEET	SHEET NO. V-03
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						<small>510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770</small>	S.R. 618	HILLSBOROUGH	53.41.01		

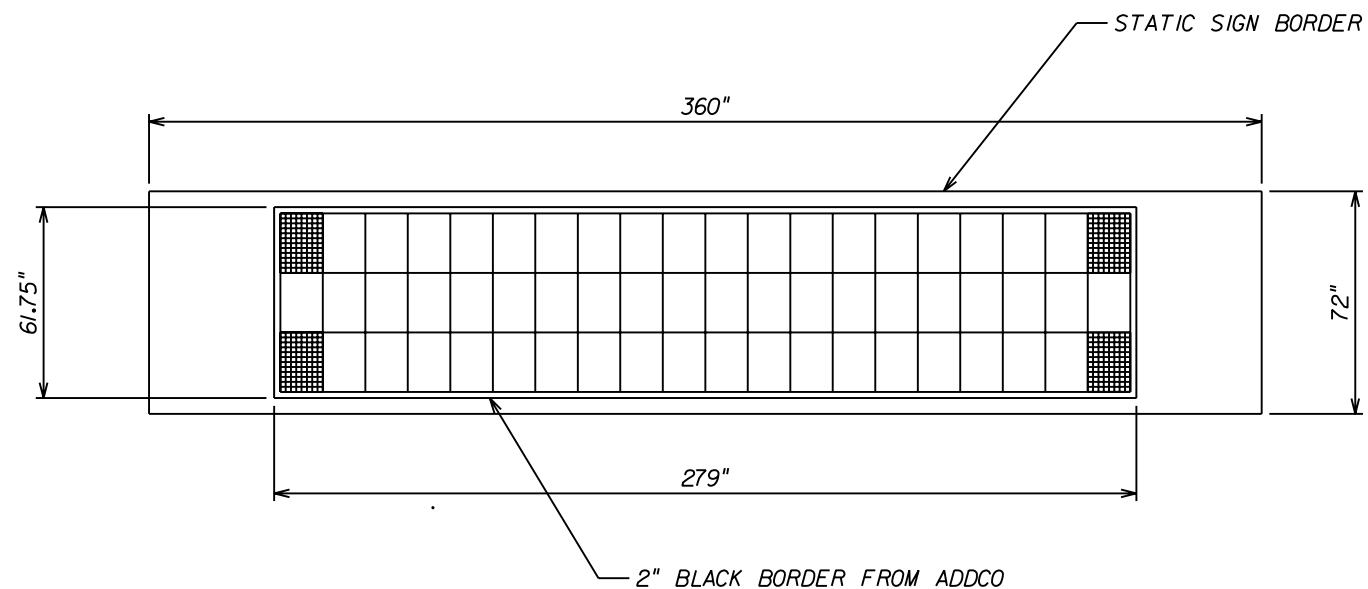
VARIABLE MESSAGE SIGN (DRAGNET)



SIGN NAME	618-DE04
SIGN TYPE	VMS
STATION NO.	STA 1703+57
NO. OF BRICKS	3 X 20 = 60
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			VMS/CMS DESIGN WORK SHEET	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		V-04
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770											

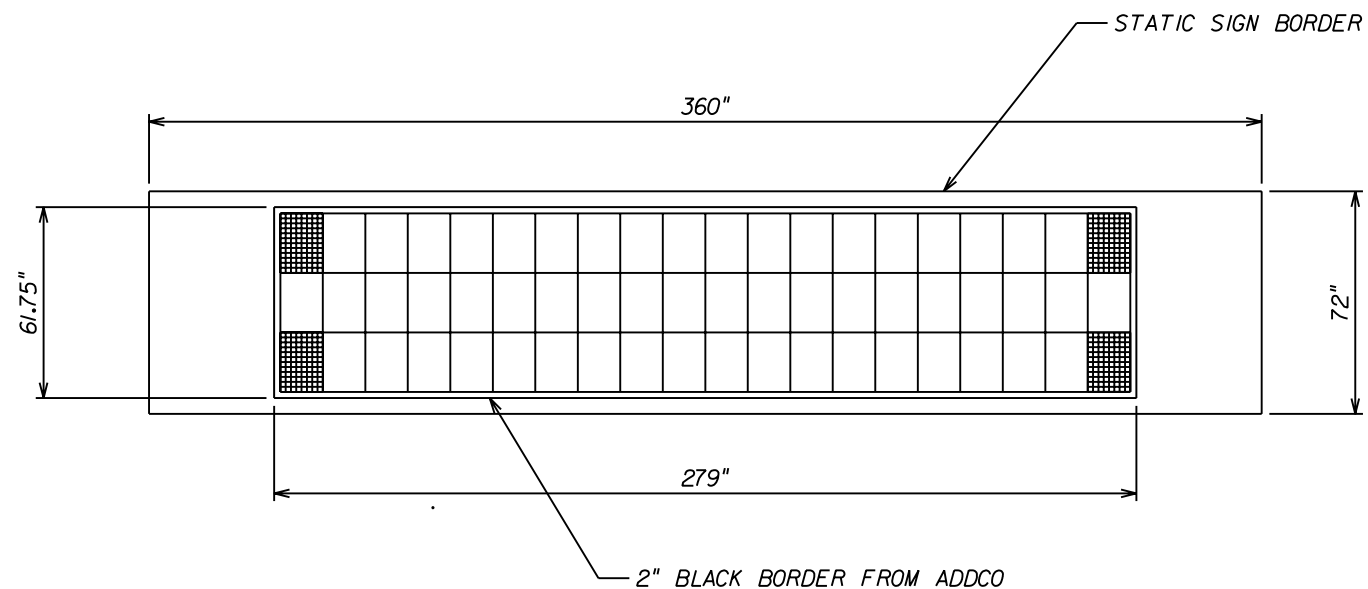
VARIABLE MESSAGE SIGN (DRAGNET)



SIGN NAME	618-DW05
SIGN TYPE	VMS
STATION NO.	STA 1909+15
NO. OF BRICKS	3 X 20 = 60
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS <small>The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			VMS/CMS DESIGN WORK SHEET	SHEET NO. V-05
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						<small>510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770</small>	S.R. 618	HILLSBOROUGH	53.41.01		

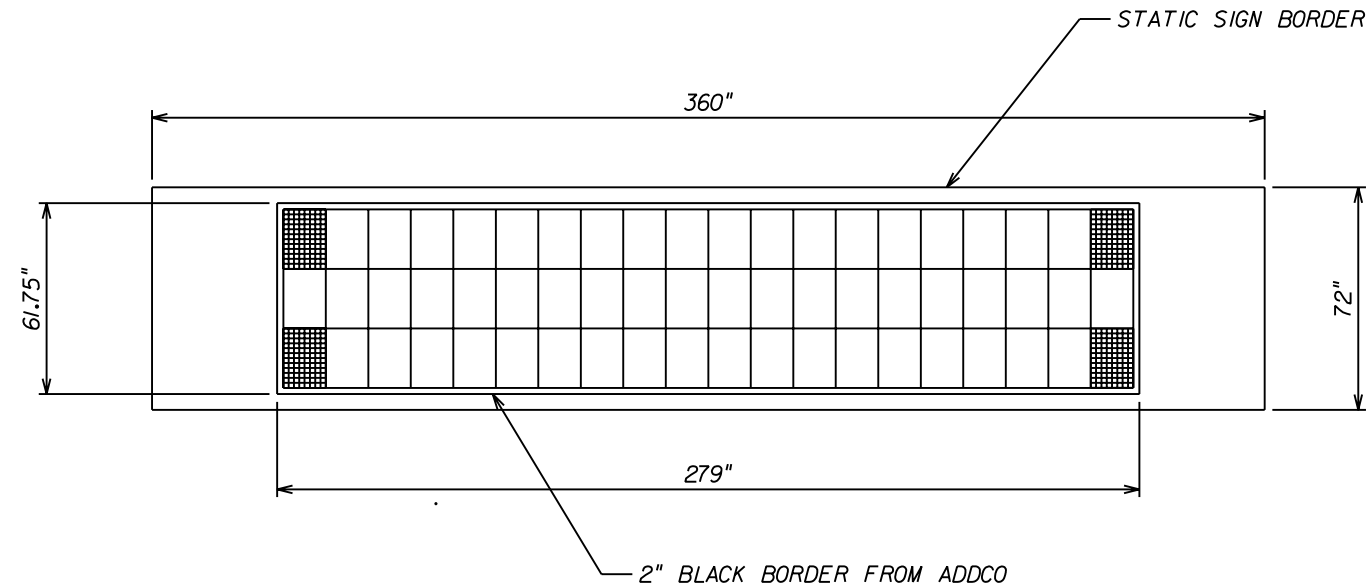
VARIABLE MESSAGE SIGN (DRAGNET)




SIGN NAME	618-DE06
SIGN TYPE	VMS
STATION NO.	STA 952+31
NO. OF BRICKS	3 X 20 = 60
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS <small>The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			VMS/CMS DESIGN WORK SHEET	SHEET NO. V-06
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						<small>510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770</small>	S.R. 618	HILLSBOROUGH	53.41.01		

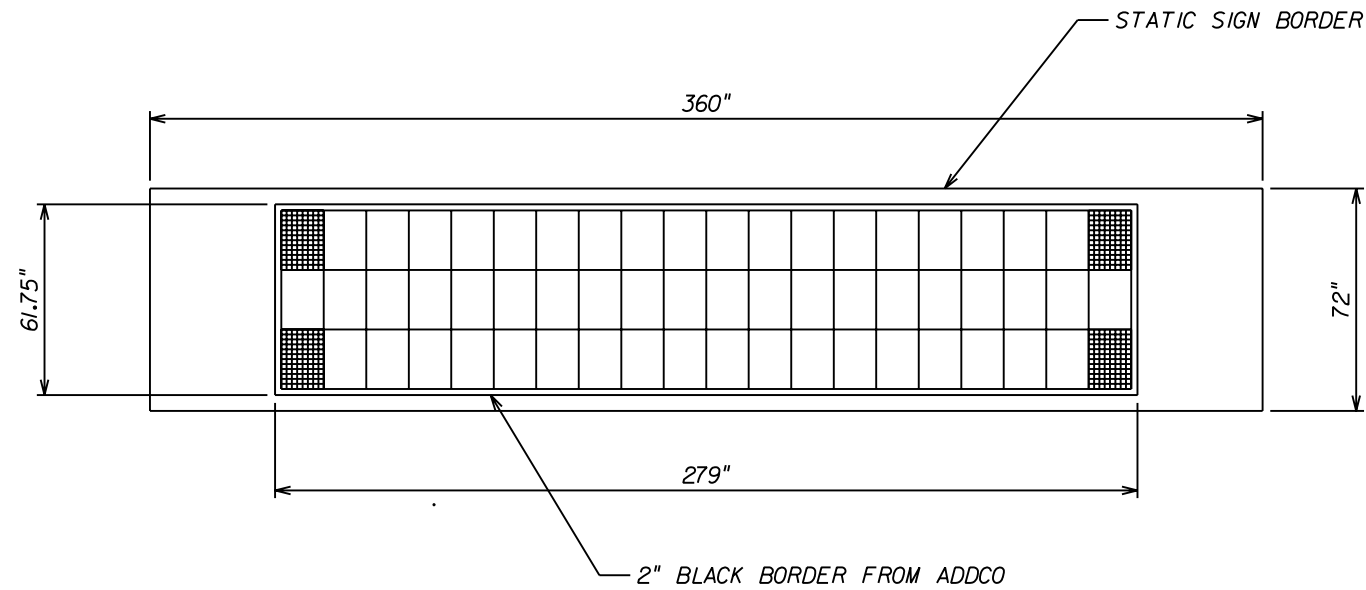
VARIABLE MESSAGE SIGN



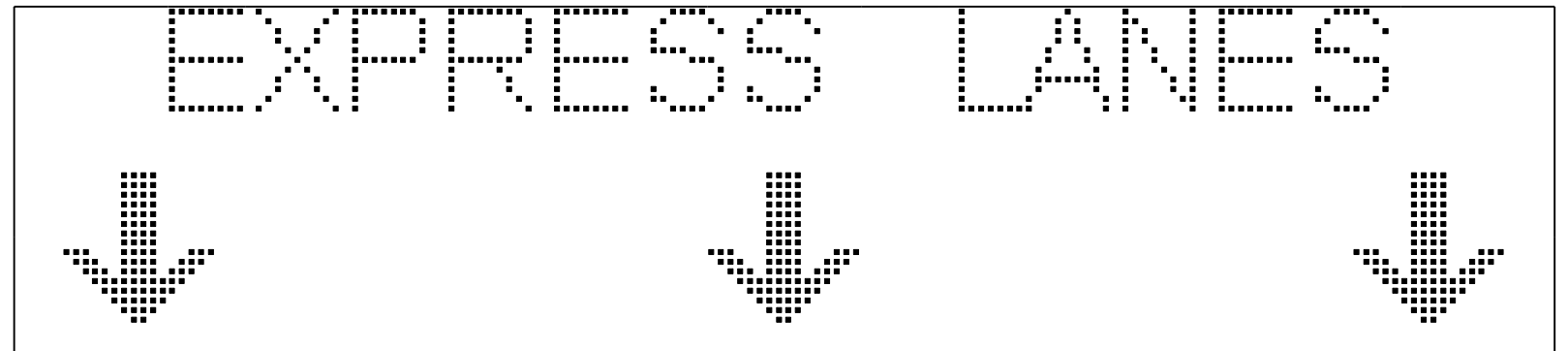
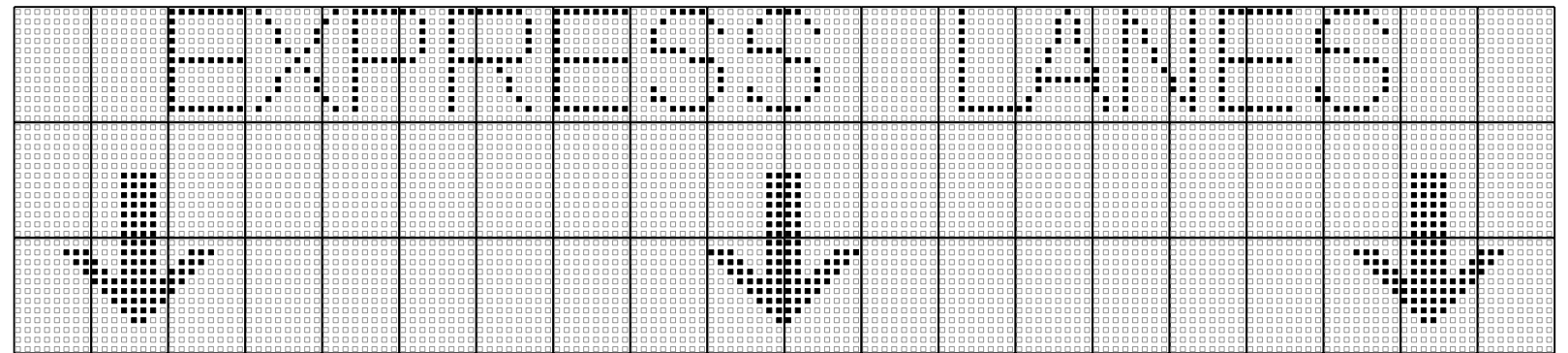
SIGN NAME	618-DW07
SIGN TYPE	VMS
STATION NO.	STA 1296+34
NO. OF BRICKS	3 X 20 = 60
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS						 <small>ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			VMS/CMS DESIGN WORK SHEET	SHEET NO. V-07
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						<small>510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770</small>	S.R. 618	HILLSBOROUGH	53.41.01		

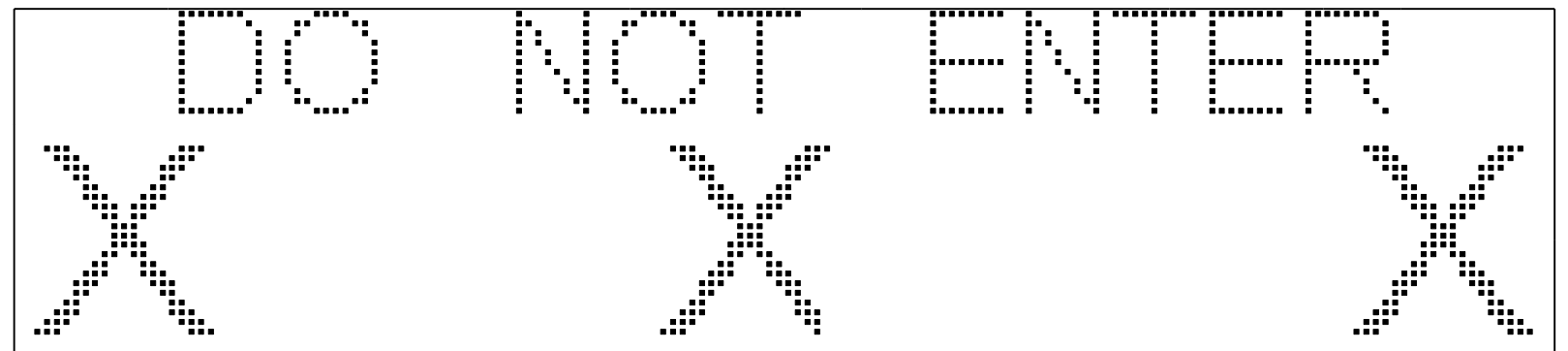
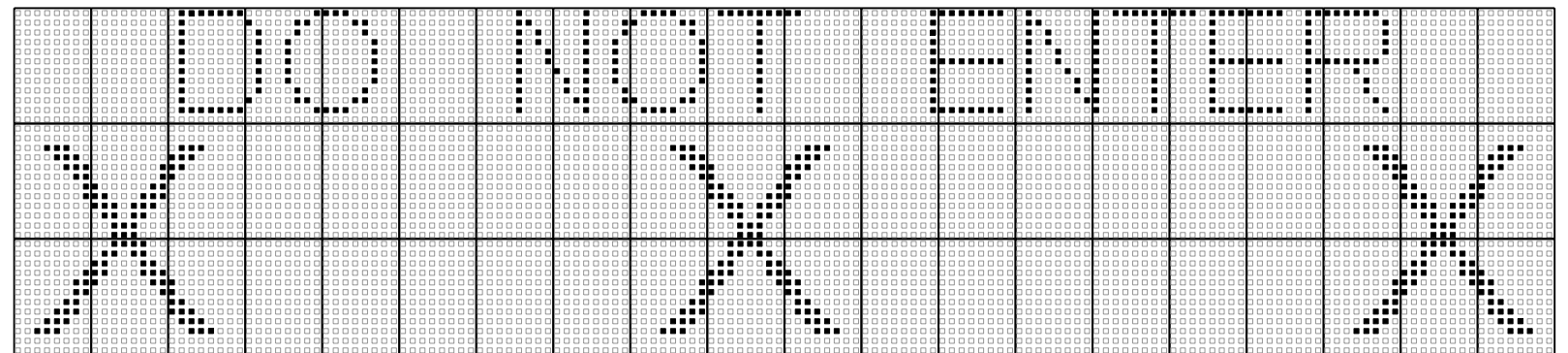
VARIABLE MESSAGE SIGN (DRAGNET)



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	DT-C01
SIGN TYPE	VMS
STATION NO.	STA 1602+20
NO. OF BRICKS	3 X 20 = 60
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	17.9"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

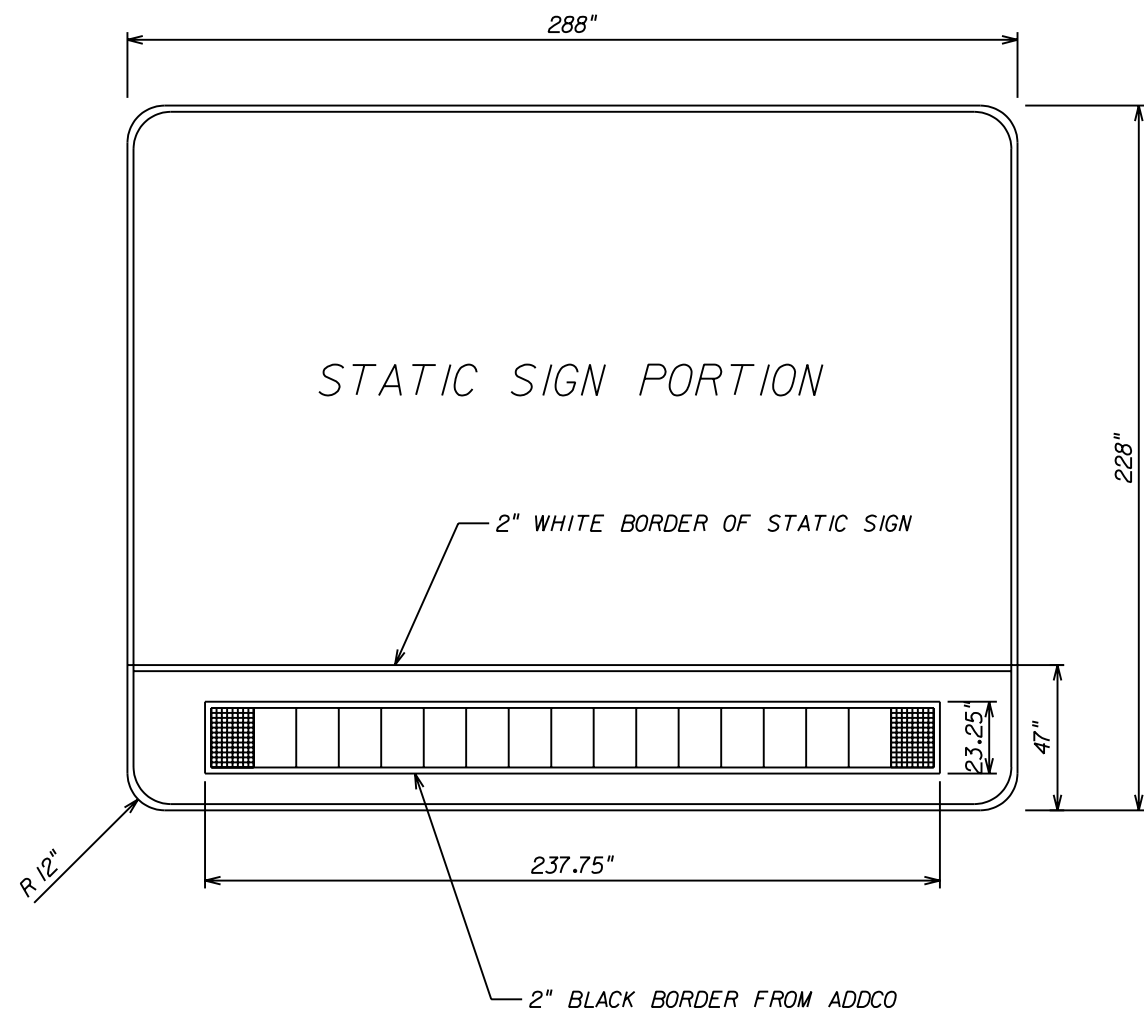
TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

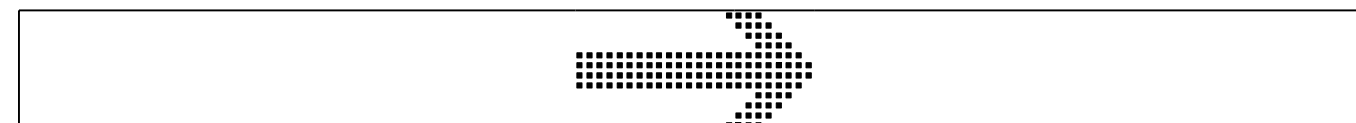
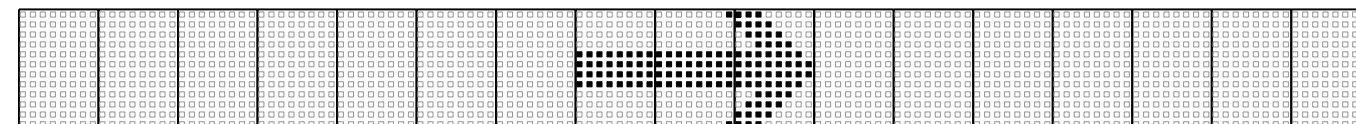
SHEET NO.

V-08

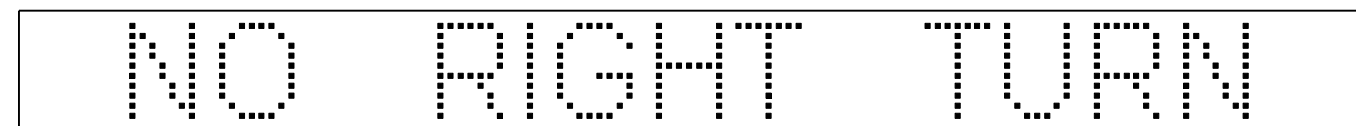
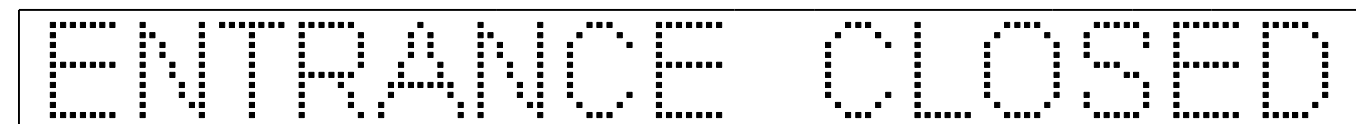
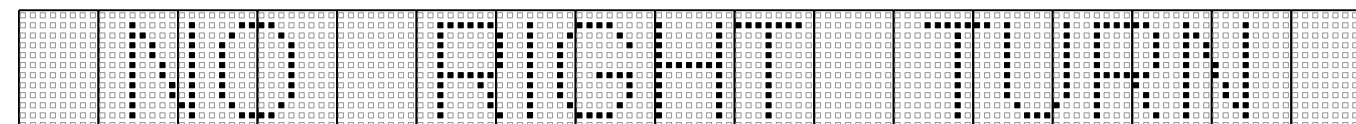
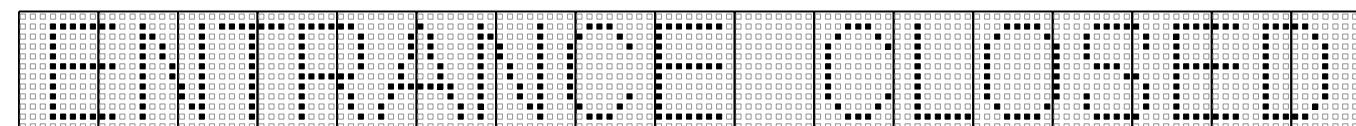


SIGN NAME	DT-C02
SIGN TYPE	CMS
STATION NO.	STA 31+40
NO. OF BRICKS	1 X 17 = 17
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	16.3"

OPEN MESSAGE



TWO-PHASE CLOSED MESSAGE



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

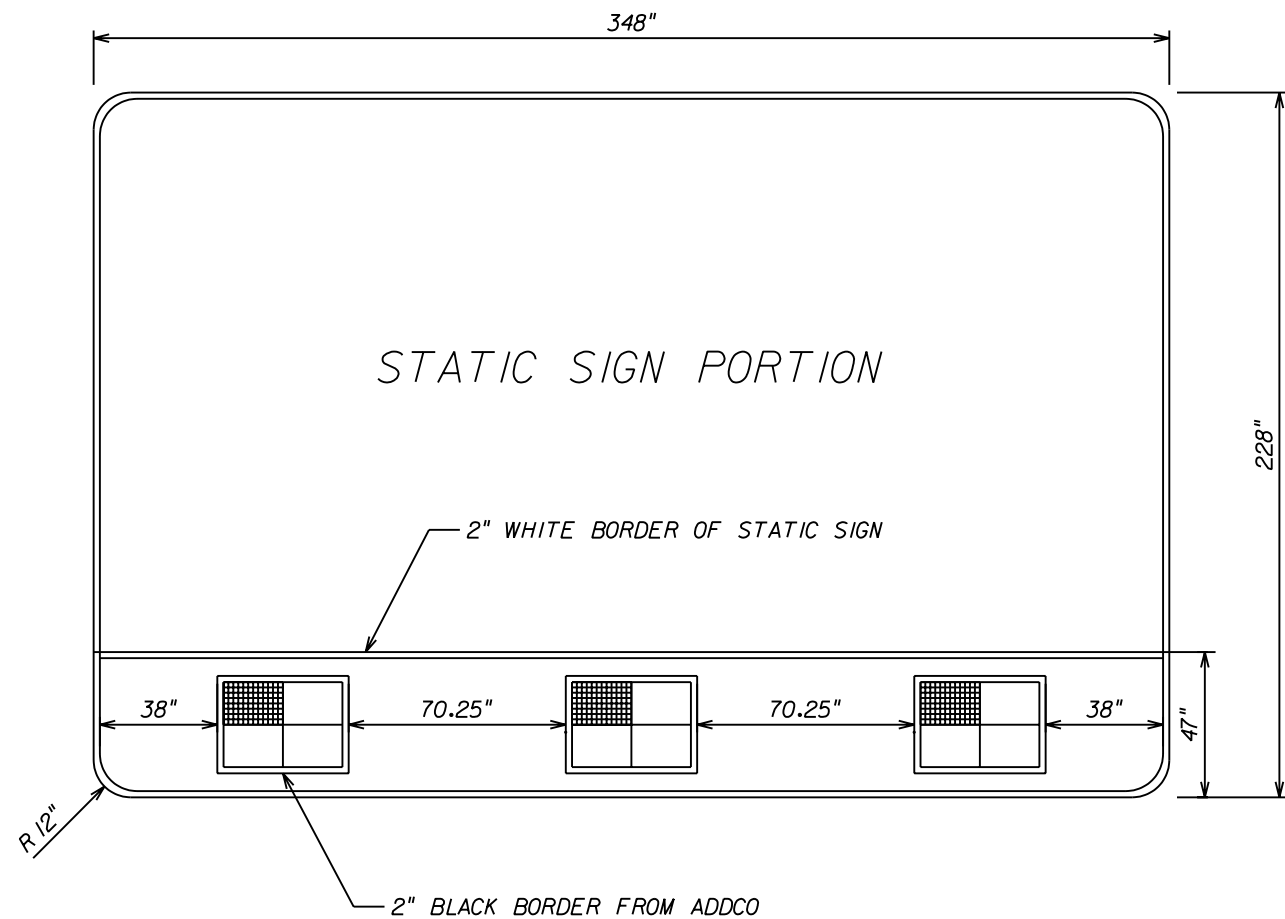
510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY

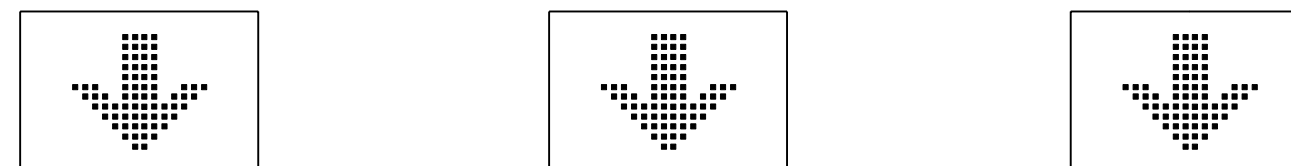
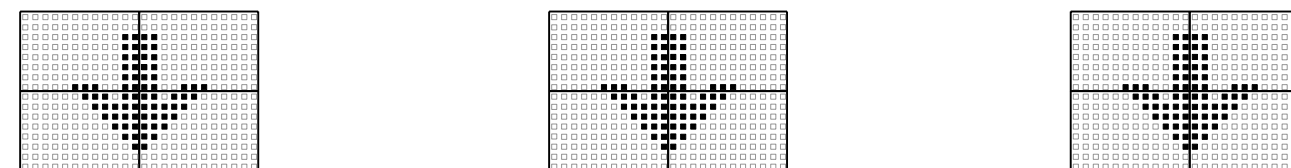
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

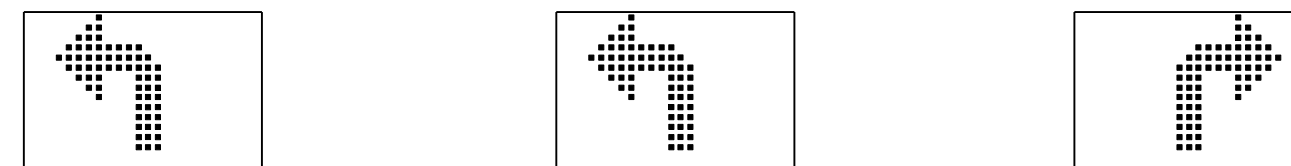
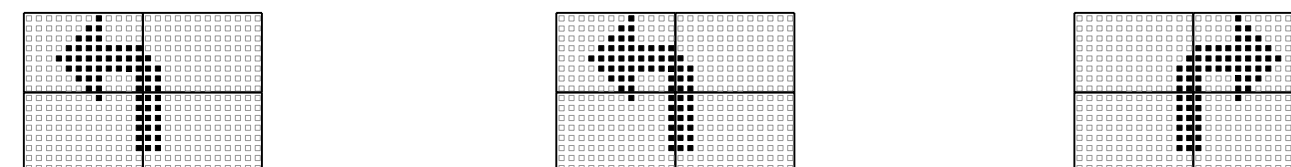
SHEET NO.
V-09



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	DT-C03
SIGN TYPE	CMS
STATION NO.	STA 229+30
NO. OF BRICKS	2X2X3=12
BRICK ORIENTATION	HORIZONTAL
FONT	
FONT SIZE	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

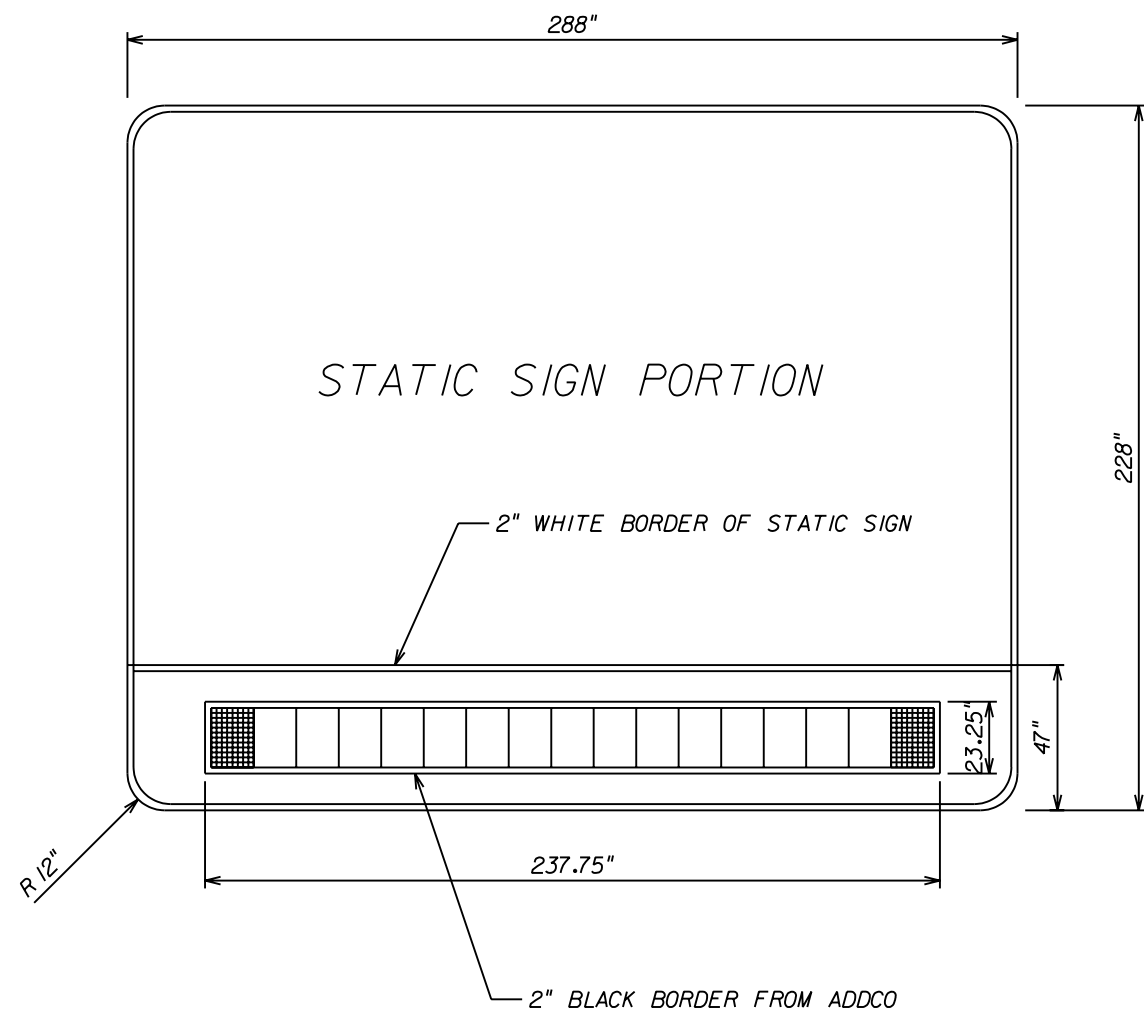
TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

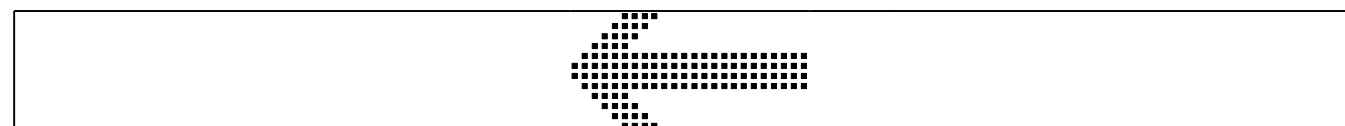
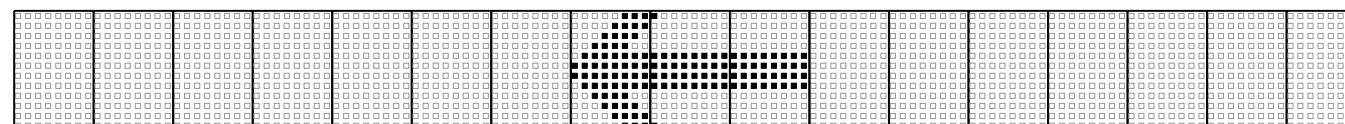
SHEET NO.

V-10

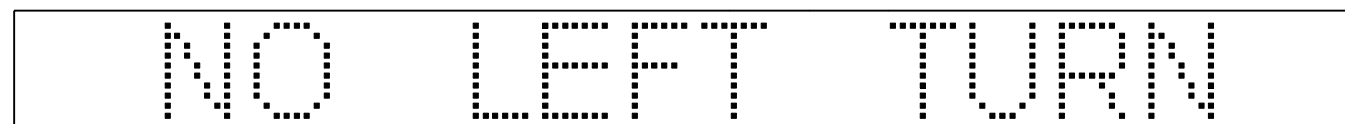
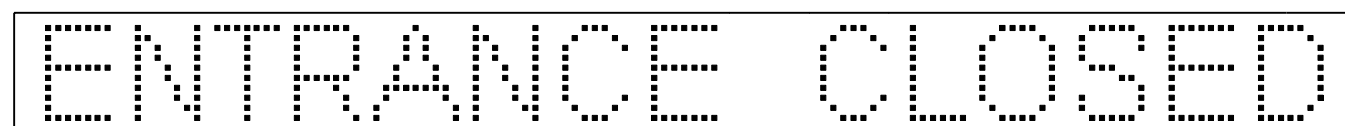
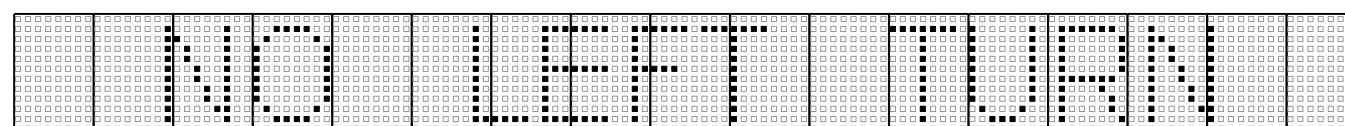
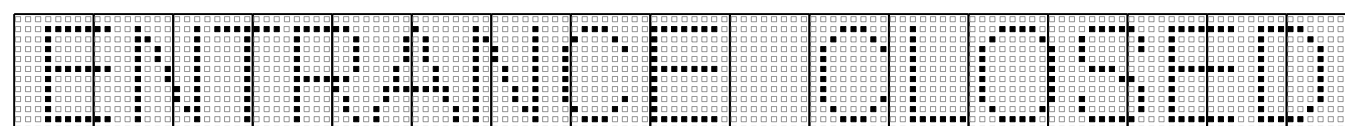


SIGN NAME	DT-C04
SIGN TYPE	CMS
STATION NO.	STA 23+70
NO. OF BRICKS	1 X 17 = 17
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	16.3"

OPEN MESSAGE



TWO-PHASE CLOSED MESSAGE



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

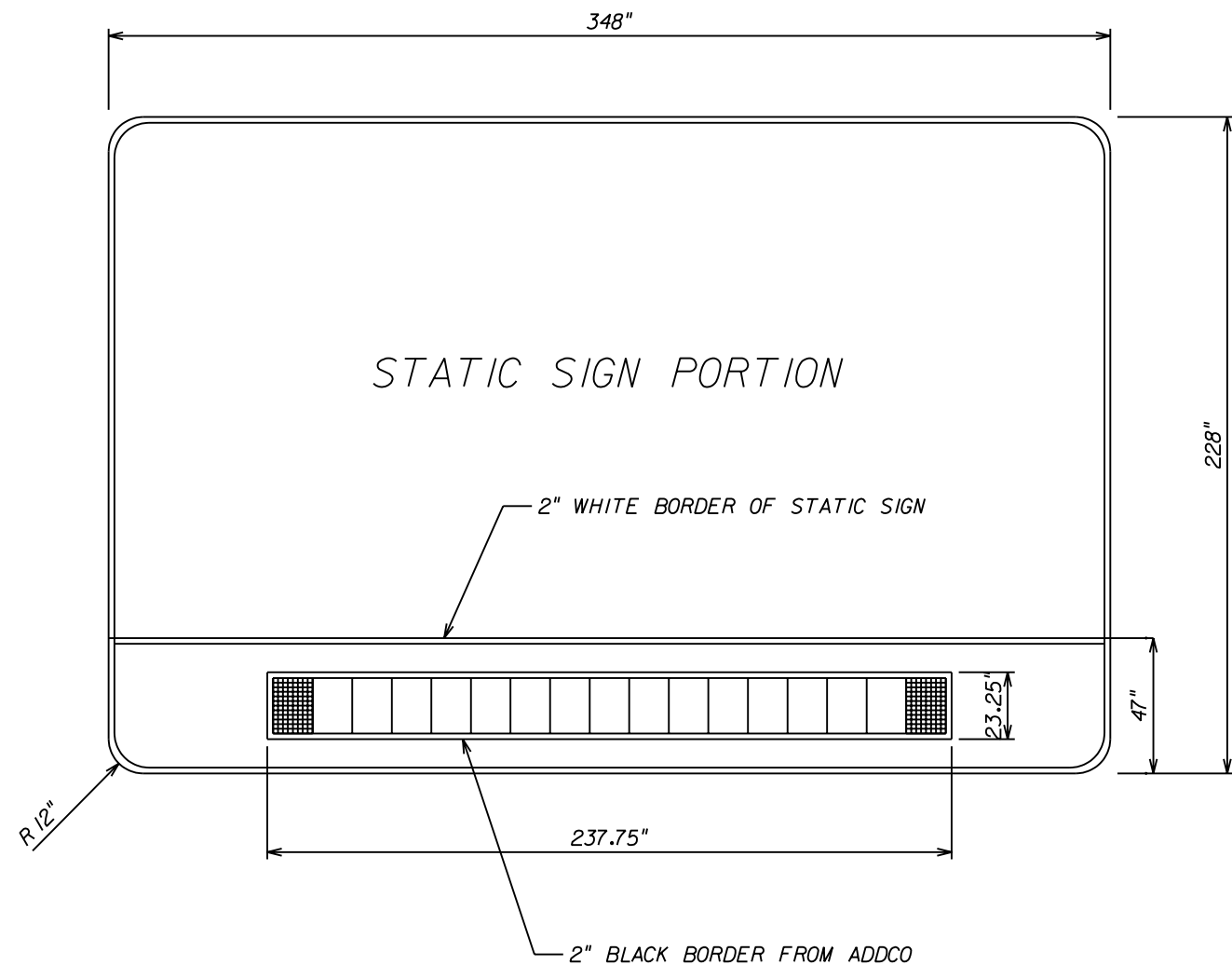
TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

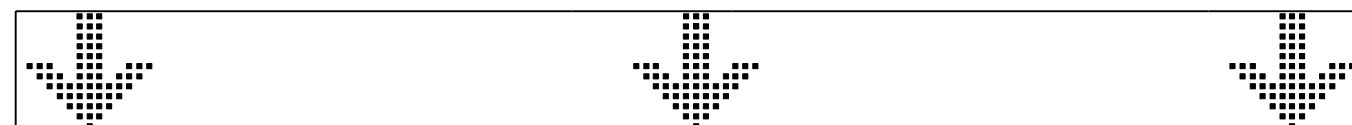
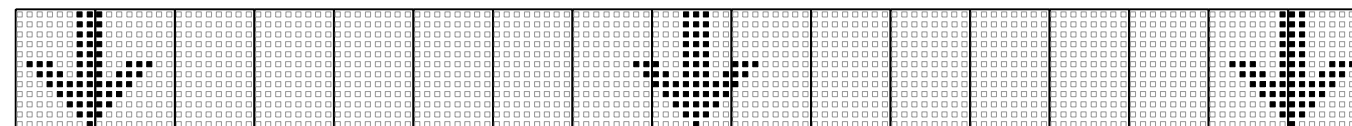
VMS/CMS DESIGN WORK SHEET

SHEET NO.

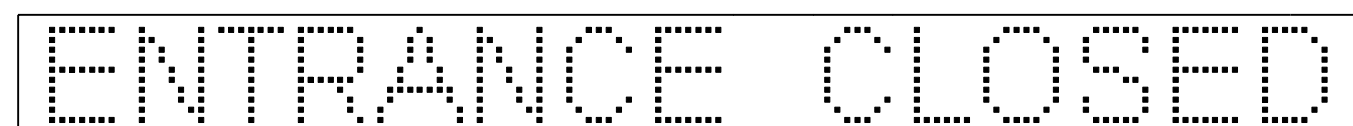
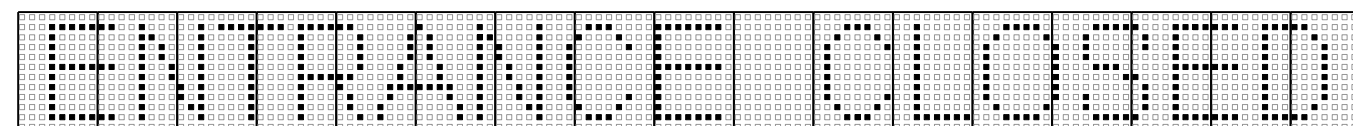
V-11



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	DT-C05
SIGN TYPE	CMS
STATION NO.	STA 224+00
NO. OF BRICKS	1 X 17 = 17
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	16.3"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

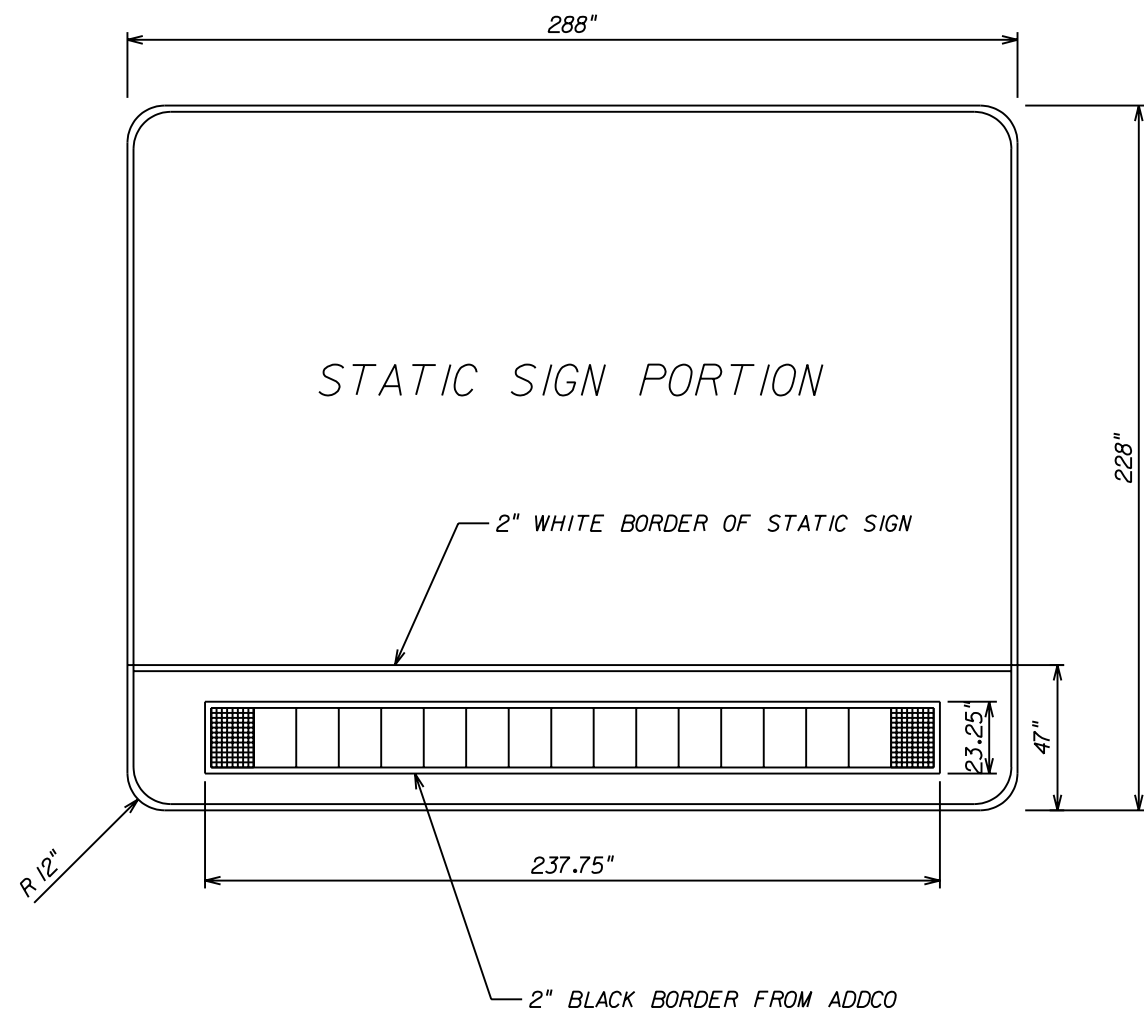
TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

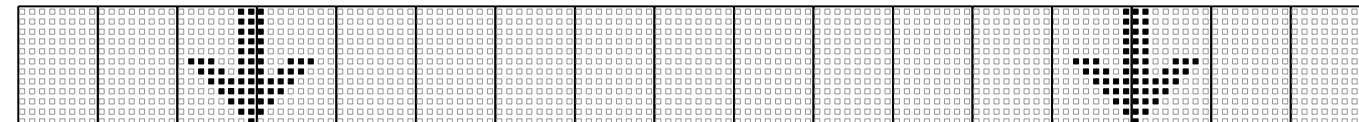
VMS/CMS DESIGN WORK SHEET

SHEET NO.

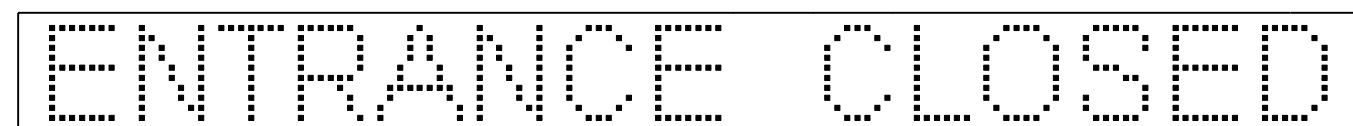
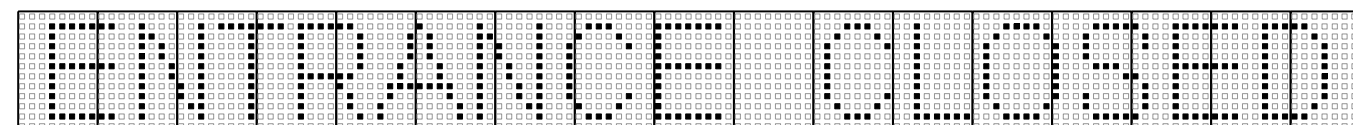
V-12



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	DT-N06
SIGN TYPE	CMS
STATION NO.	STA 700+40
NO. OF BRICKS	1 X 17 = 17
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	16.3"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

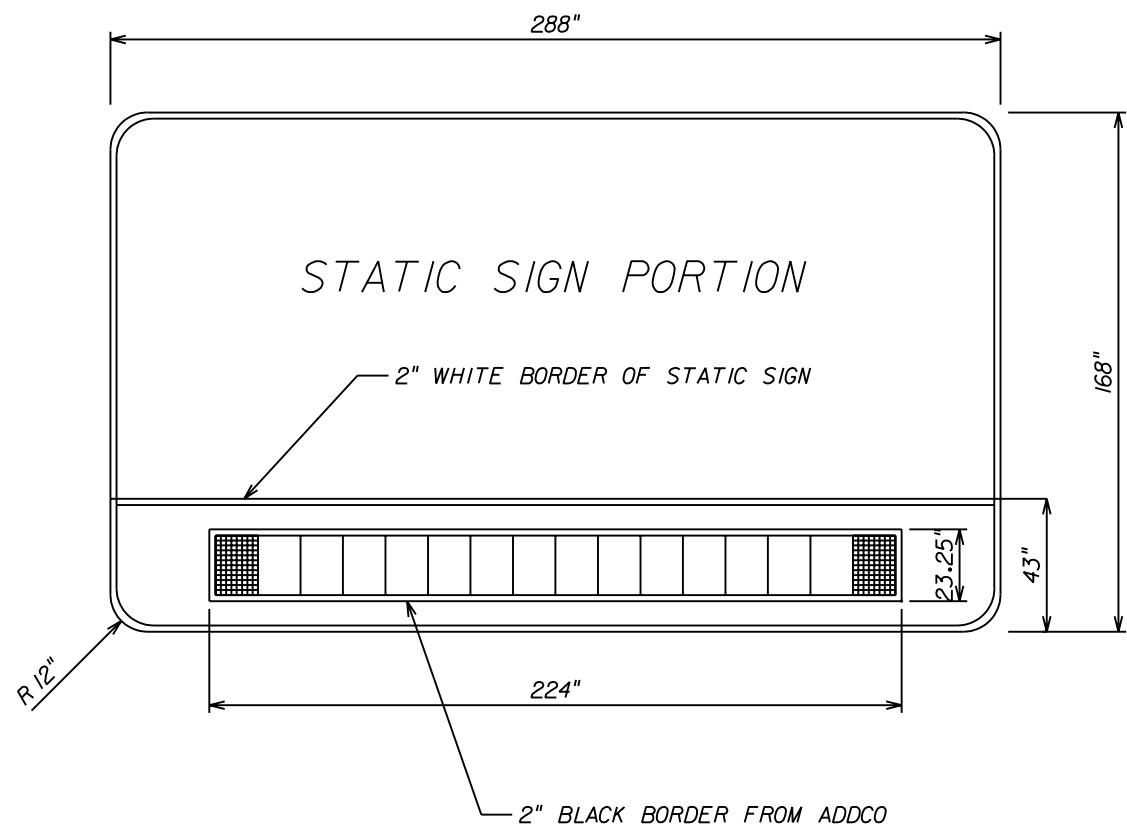
TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

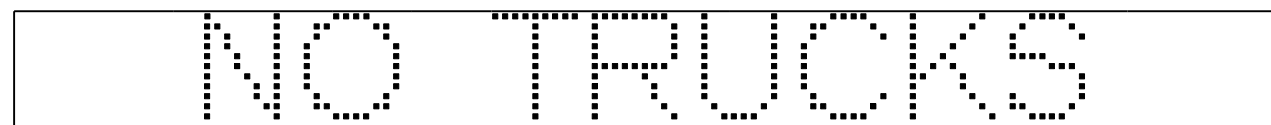
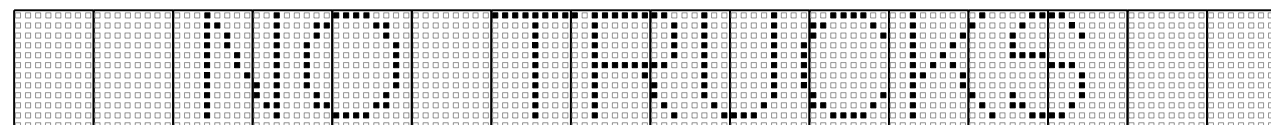
SHEET NO.

V-13

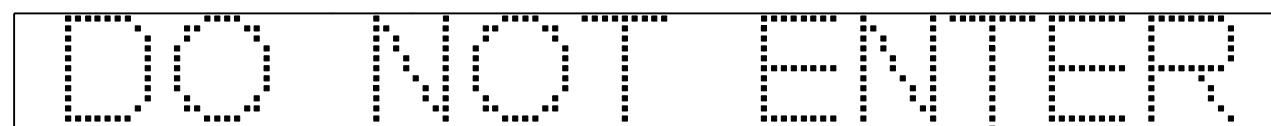
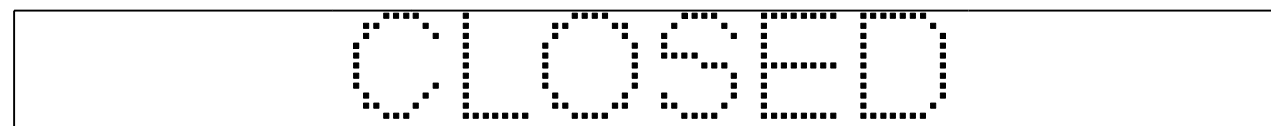
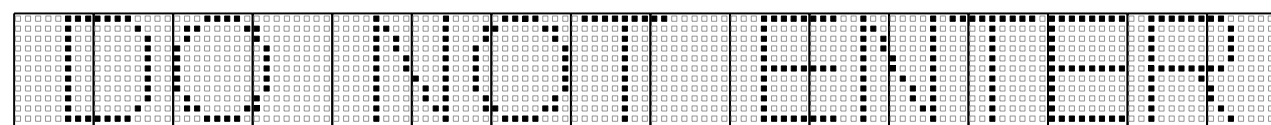
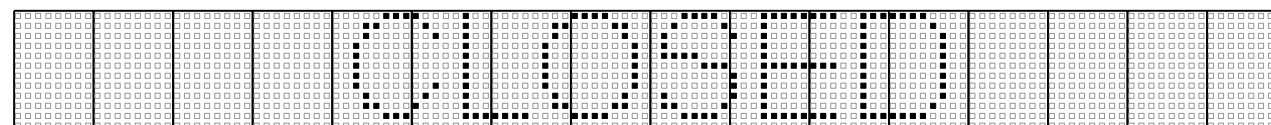


SIGN NAME	34-COI
SIGN TYPE	CMS
STATION NO.	STA 3692+72
NO. OF BRICKS	1 X 16 = 16
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	17.9"

OPEN MESSAGE



TWO-PHASE CLOSED MESSAGE



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

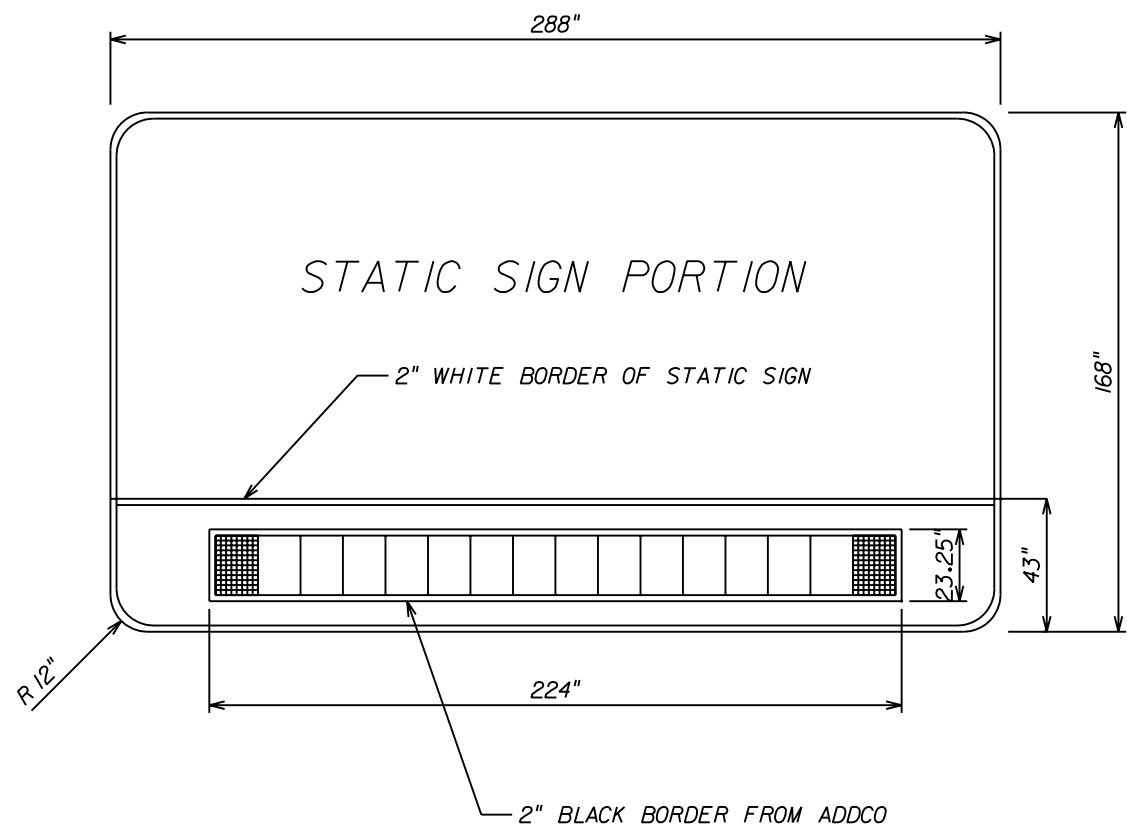
TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

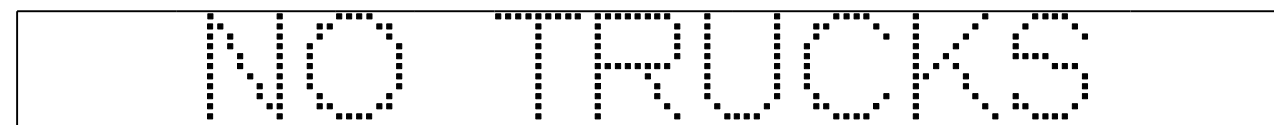
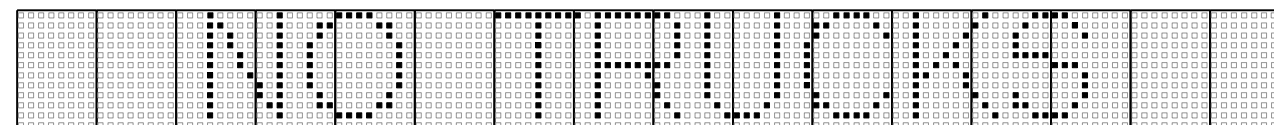
SHEET NO.

V-14

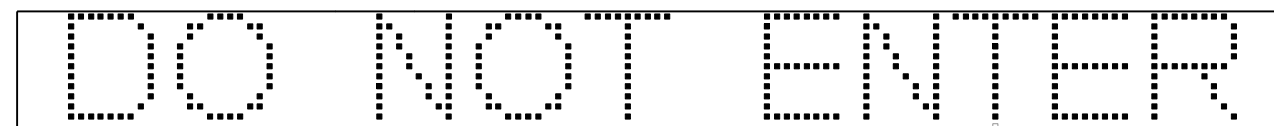
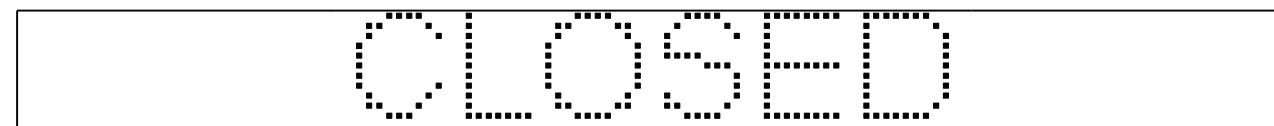
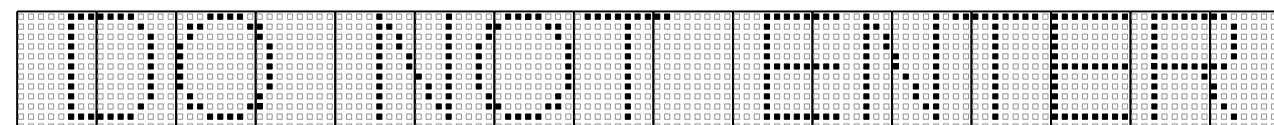
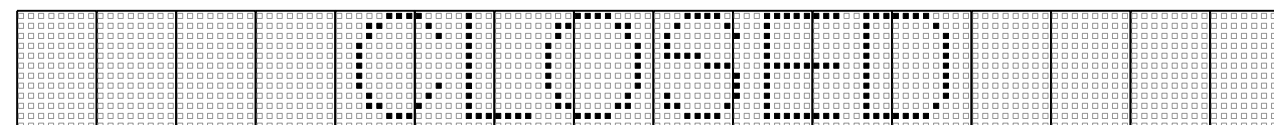


SIGN NAME	34-COI
SIGN TYPE	CMS
STATION NO.	STA 3692+72
NO. OF BRICKS	1 X 16 = 16
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	17.9"

OPEN MESSAGE



TWO-PHASE CLOSED MESSAGE



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

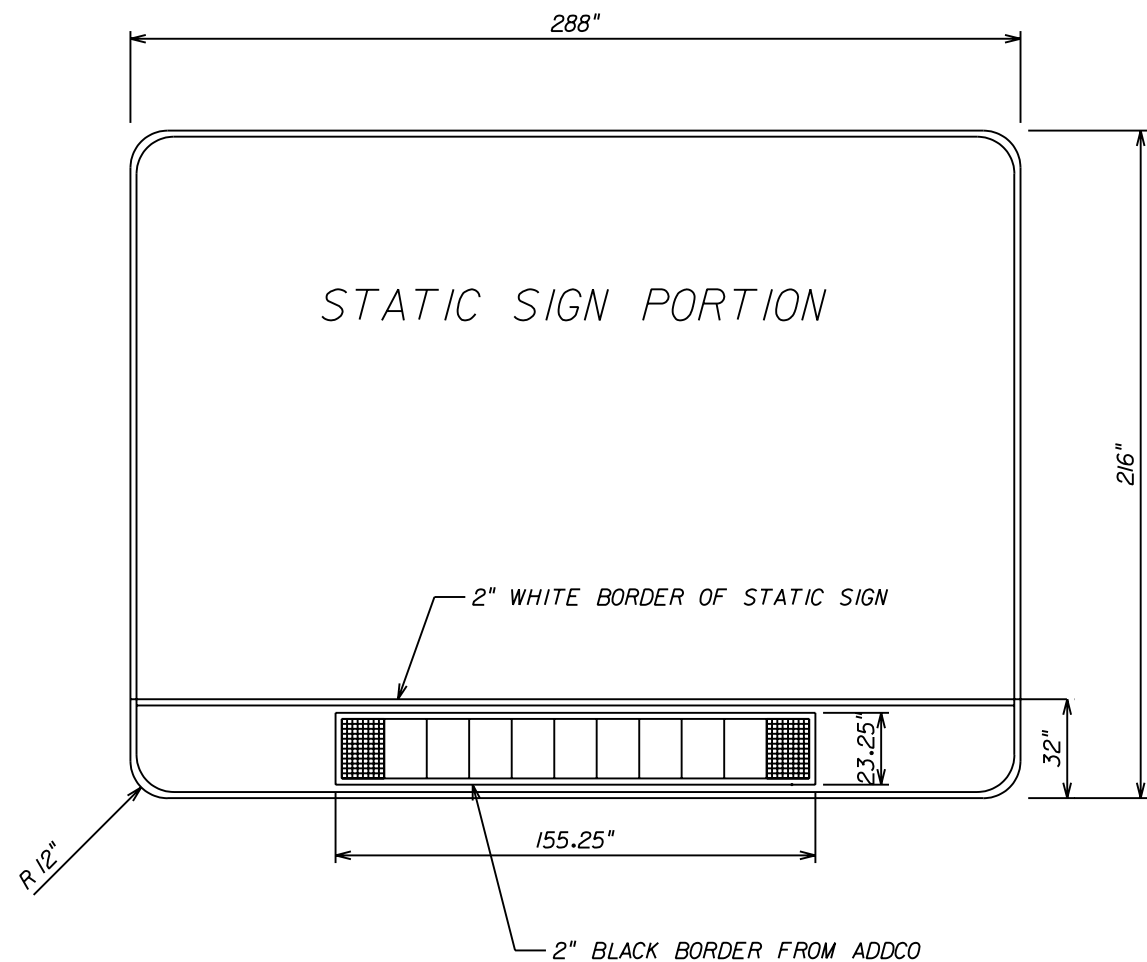
TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

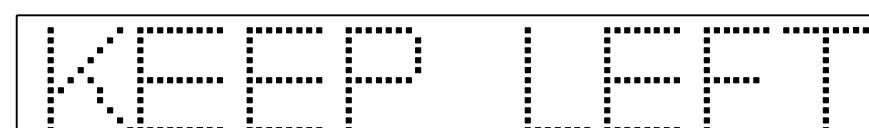
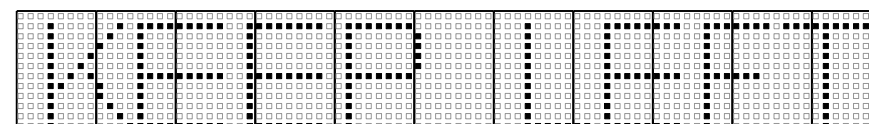
VMS/CMS DESIGN WORK SHEET

SHEET NO.

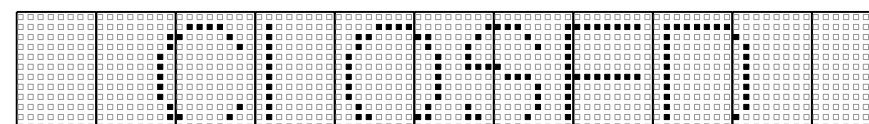
V-14



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	34-C02
SIGN TYPE	CMS
STATION NO.	STA 3666+40
NO. OF BRICKS	1 X 11 = 11
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	17.9"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

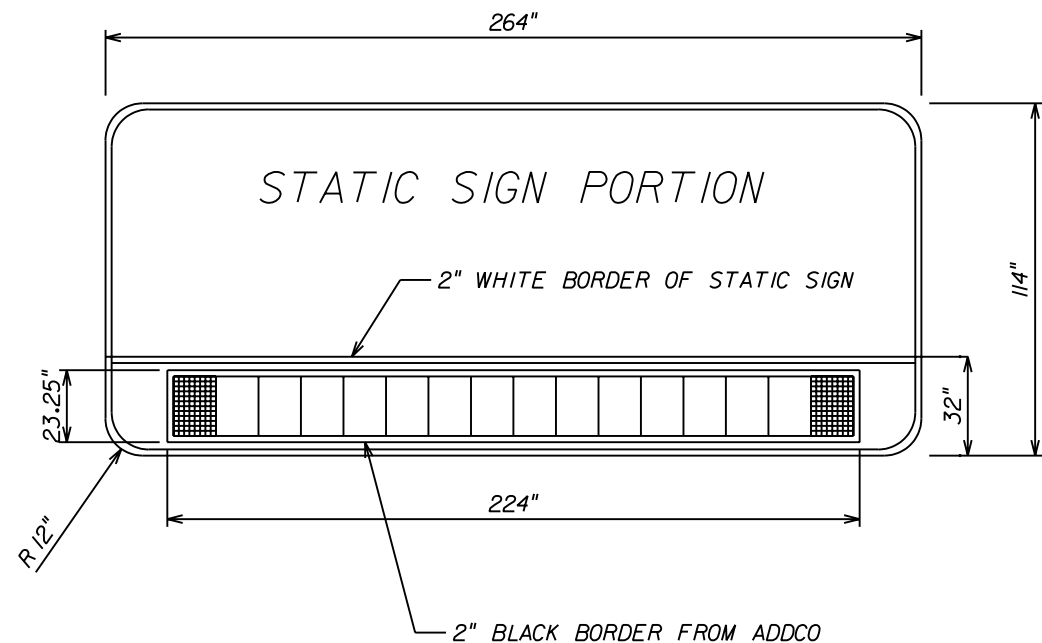
TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

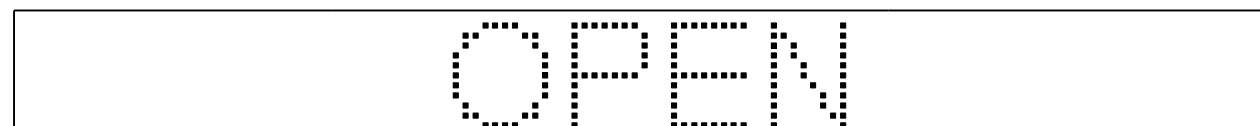
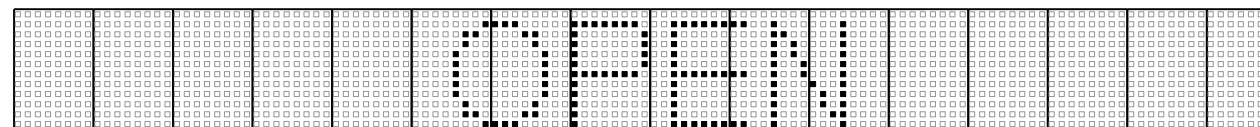
SHEET NO.

V-15

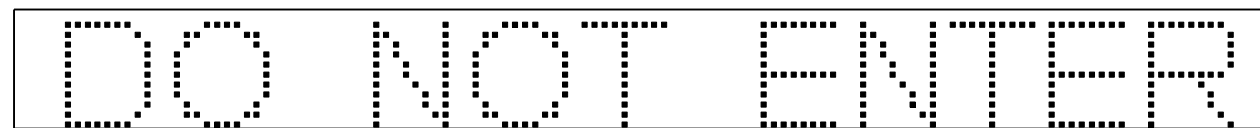
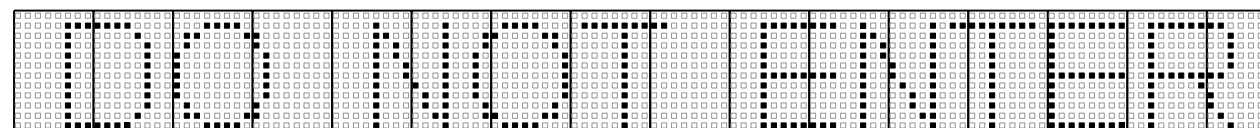
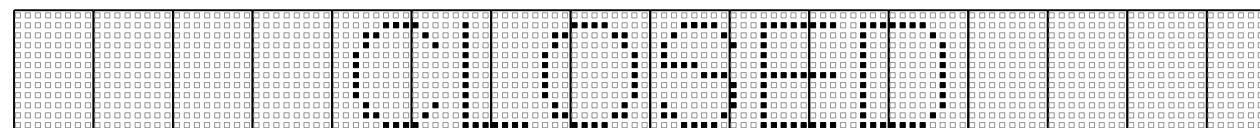


SIGN NAME	301-CO1
SIGN TYPE	CMS
STATION NO.	STA 4943+30
NO. OF BRICKS	1 X 16 = 16
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	17.9"

OPEN MESSAGE



TWO-PHASE CLOSED MESSAGE



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

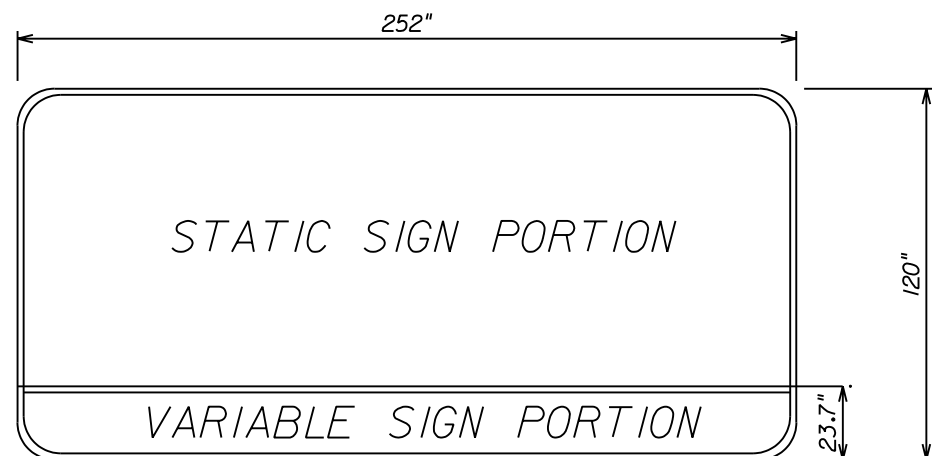
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

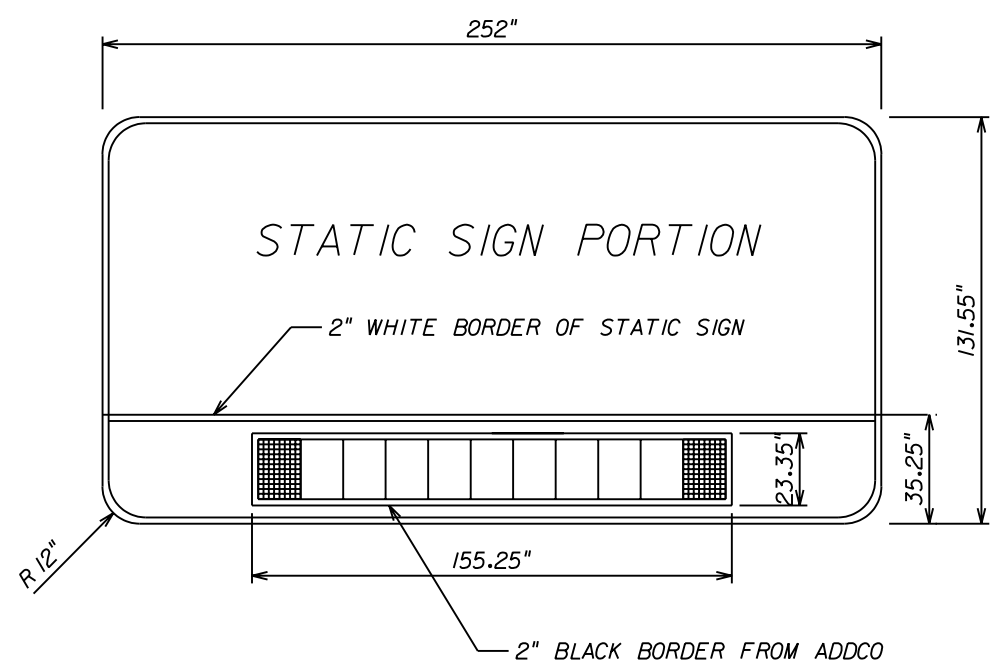
SHEET NO.

V-16

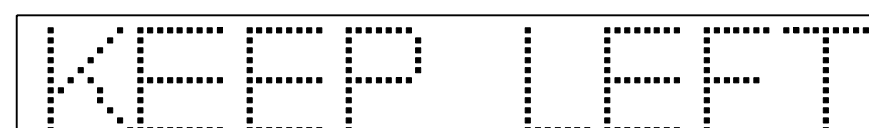
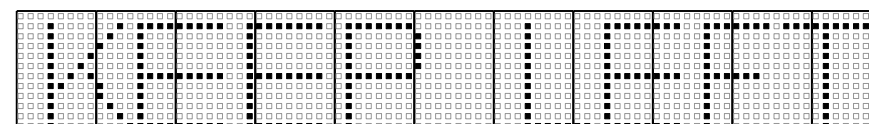
ORIGINAL PANEL DIMENSION



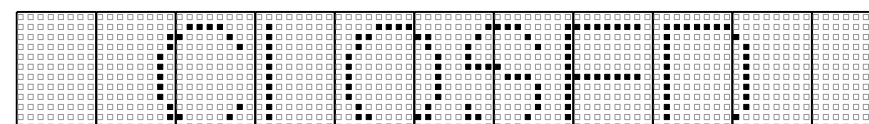
PROPOSED PANEL DIMENSION



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	301-C03
SIGN TYPE	CMS
STATION NO.	STA 3915+59
NO. OF BRICKS	1 X 11 = 11
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	17.9"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

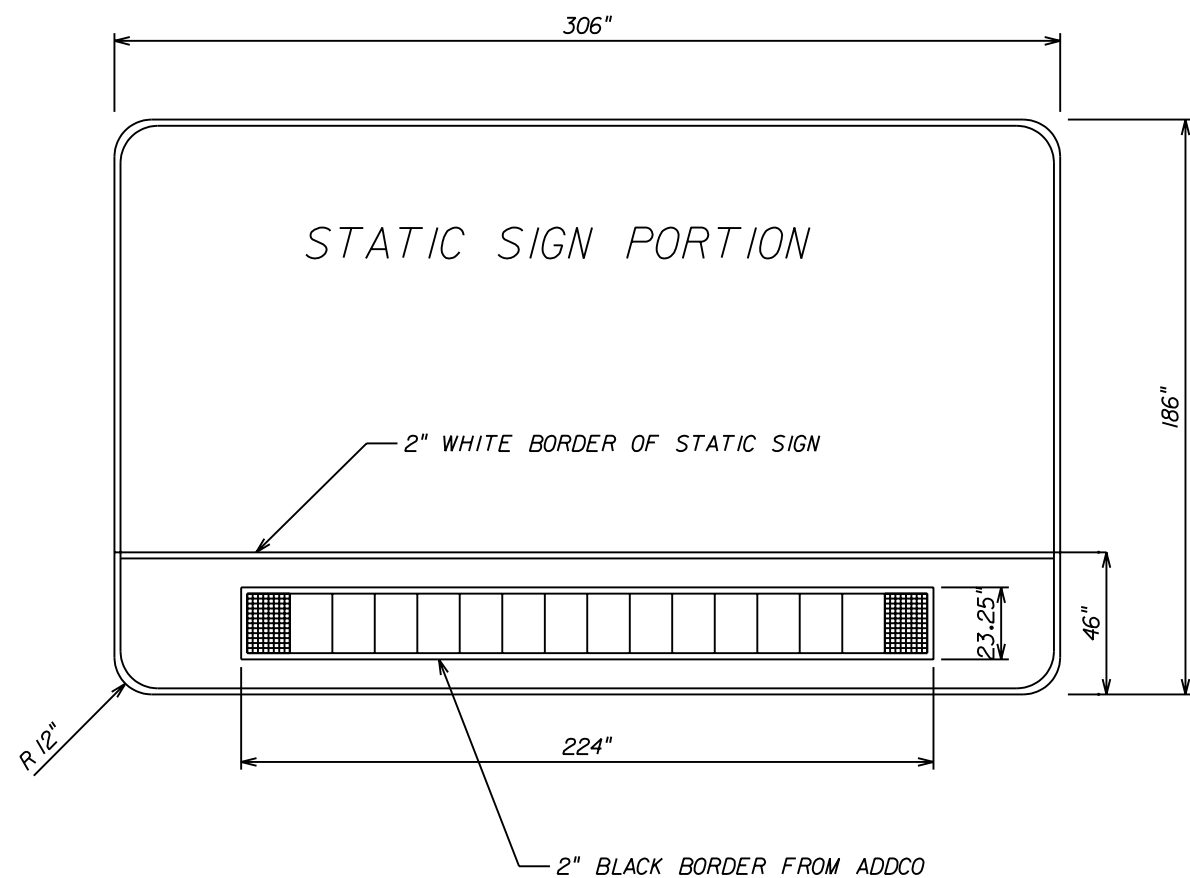
TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

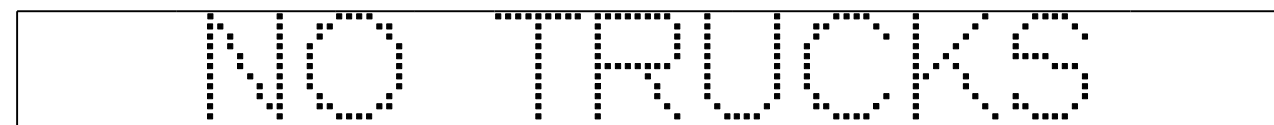
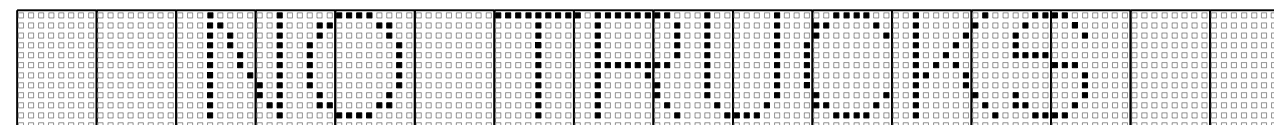
SHEET NO.

V-17

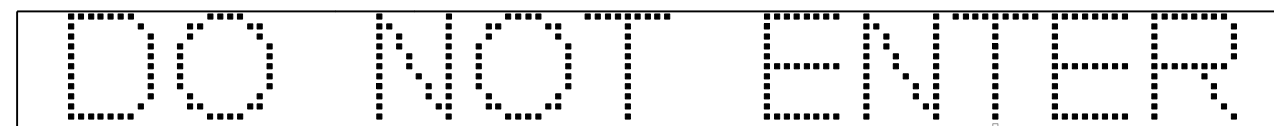
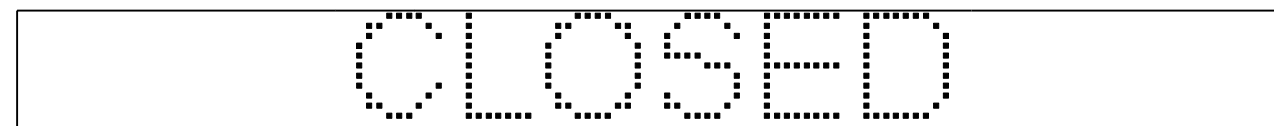
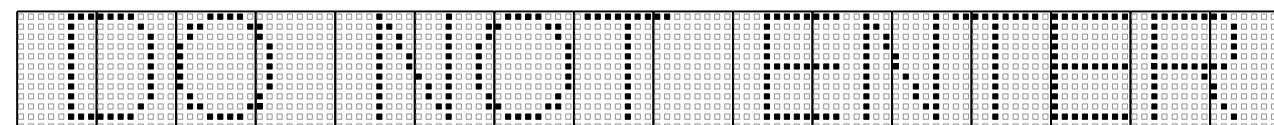
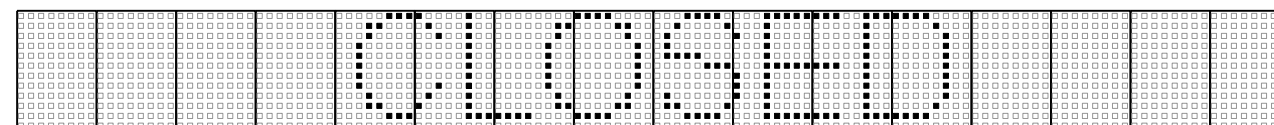


SIGN NAME	78-COI
SIGN TYPE	CMS
STATION NO.	STA 2918+55
NO. OF BRICKS	1 X 16 = 16
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	17.9"

OPEN MESSAGE



TWO-PHASE CLOSED MESSAGE



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

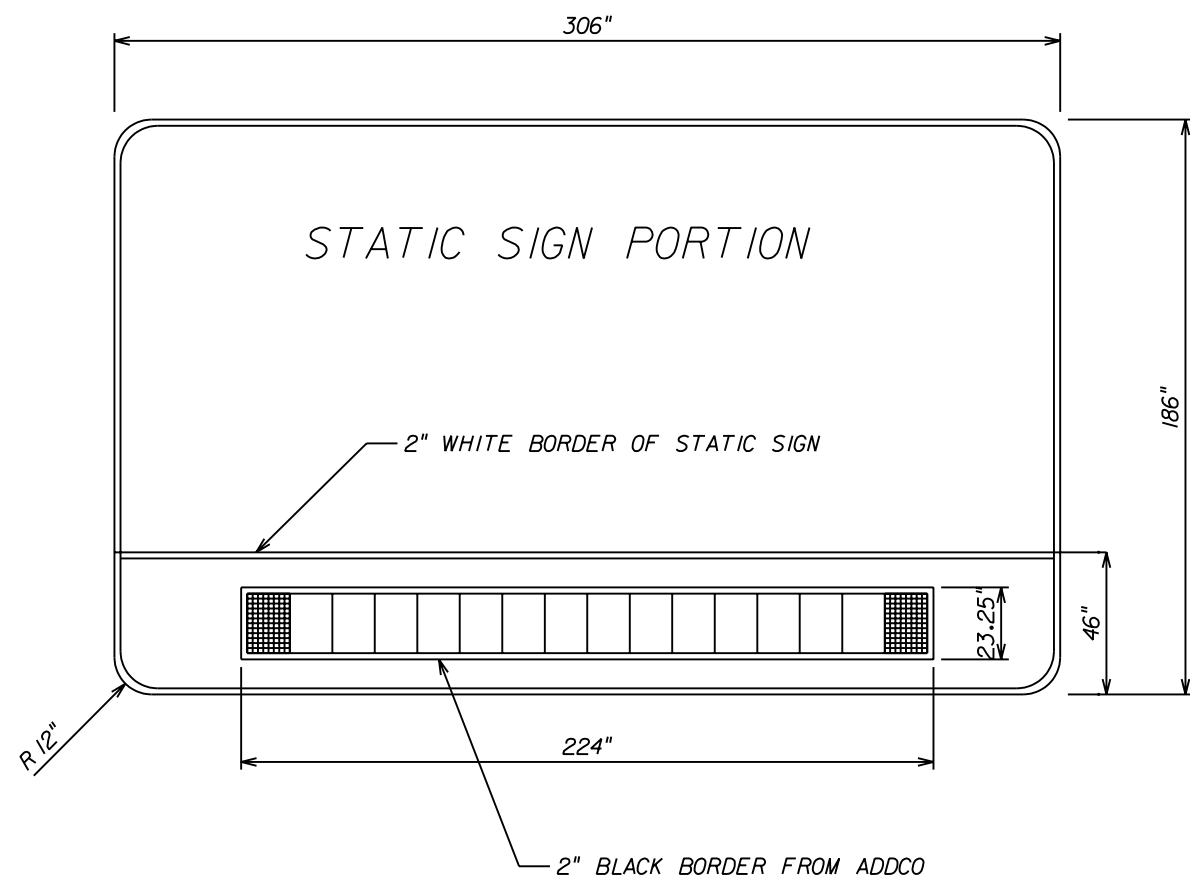
TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

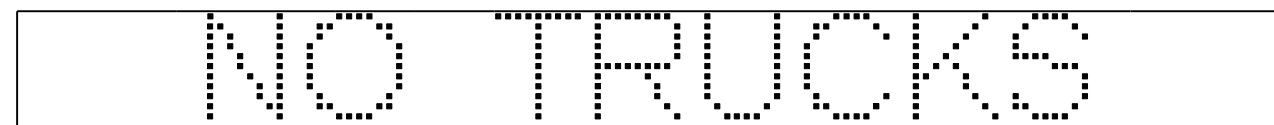
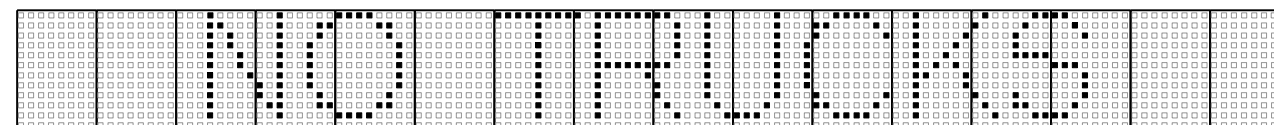
SHEET NO.

V-18

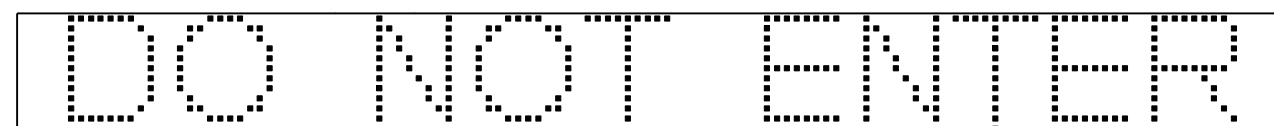
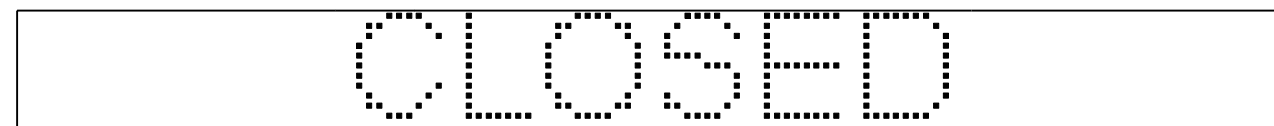
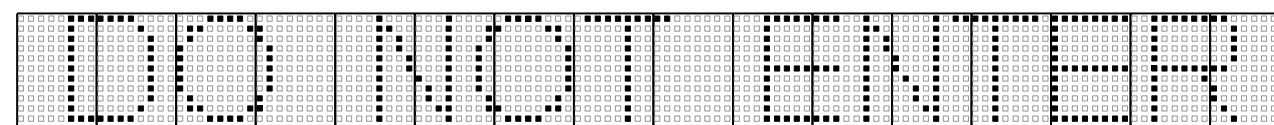
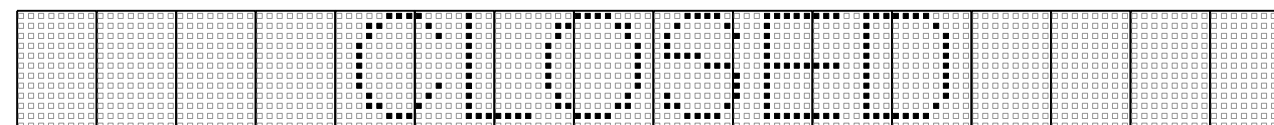


SIGN NAME	78-COI
SIGN TYPE	CMS
STATION NO.	STA 2918+55
NO. OF BRICKS	1 X 16 = 16
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	17.9"

OPEN MESSAGE



TWO-PHASE CLOSED MESSAGE



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY

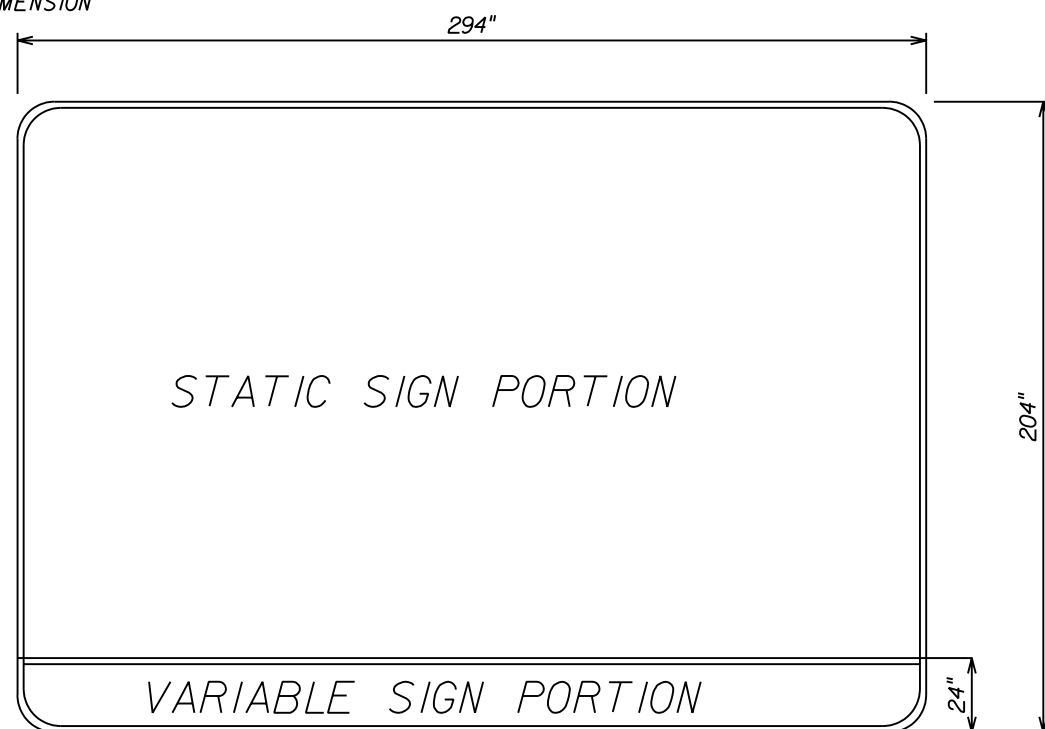
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

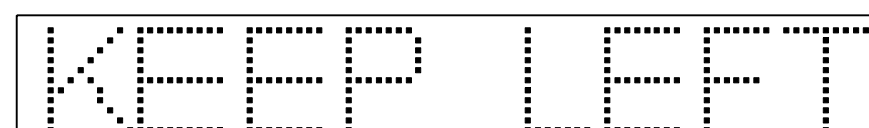
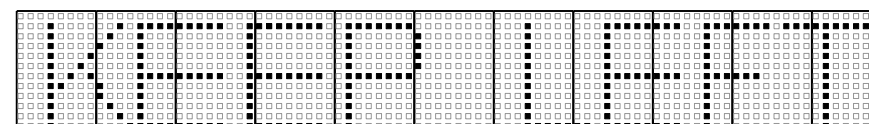
SHEET NO.

V-18

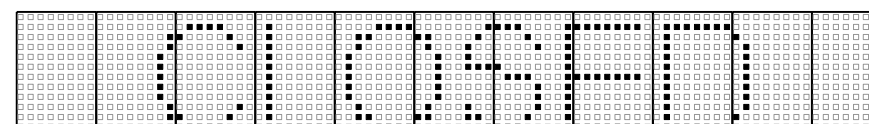
ORIGINAL PANEL DIMENSION



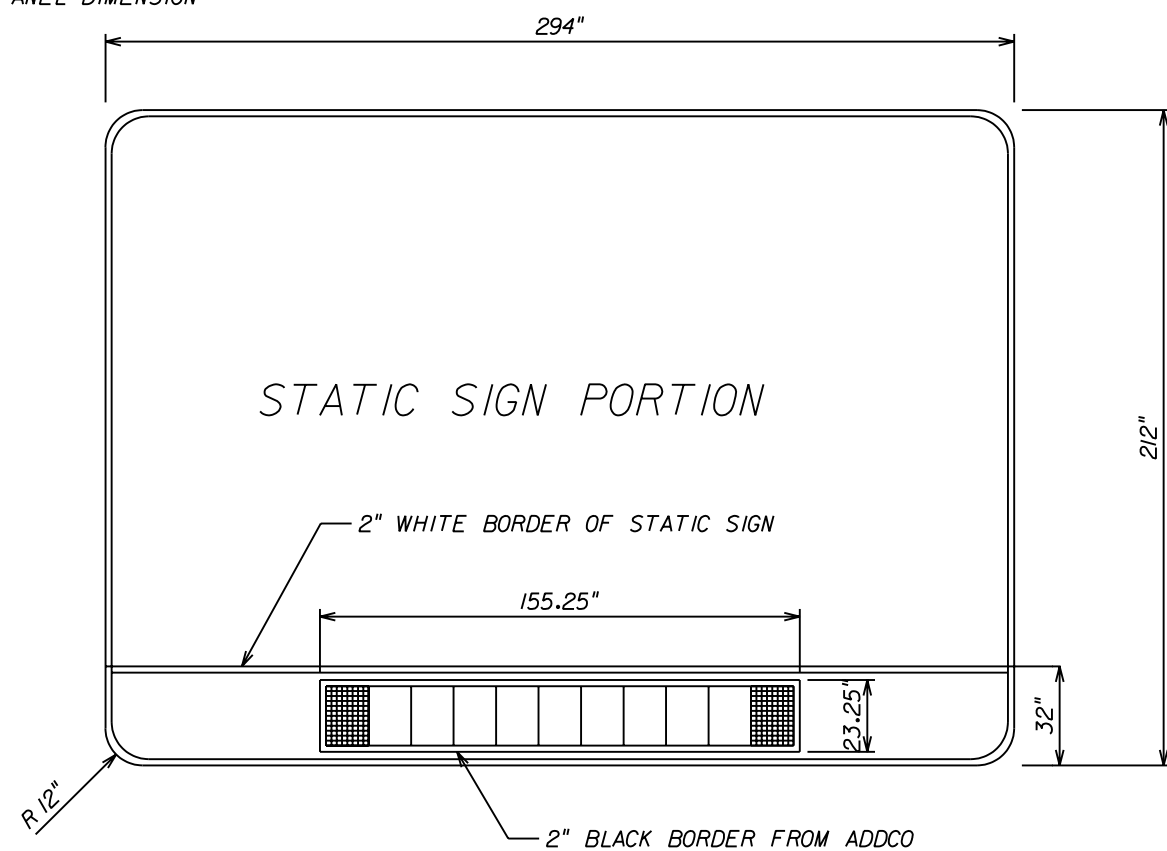
OPEN MESSAGE



CLOSED MESSAGE



PROPOSED PANEL DIMENSION



SIGN NAME	78-C02
SIGN TYPE	CMS
STATION NO.	STA 3943+63
NO. OF BRICKS	1 X 11 = 11
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	17.9"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

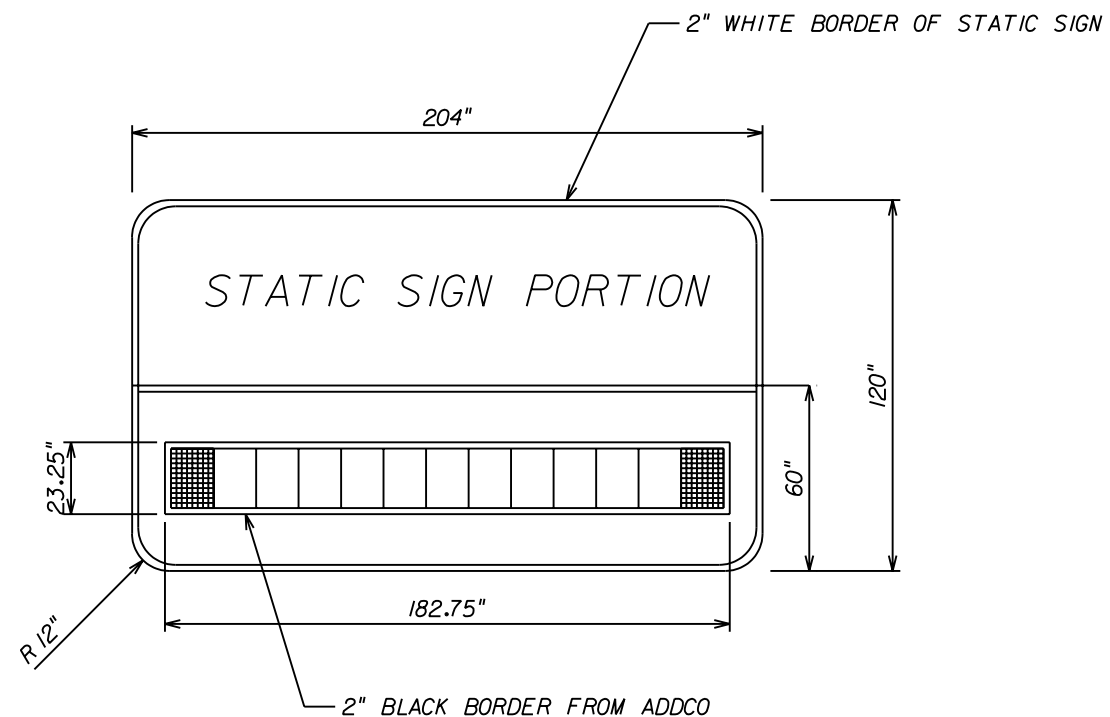
TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

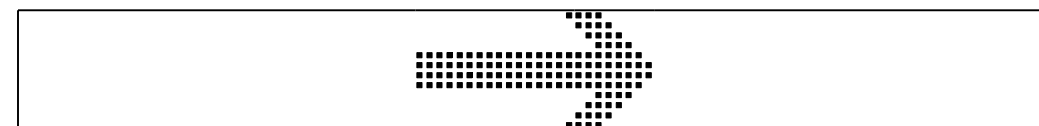
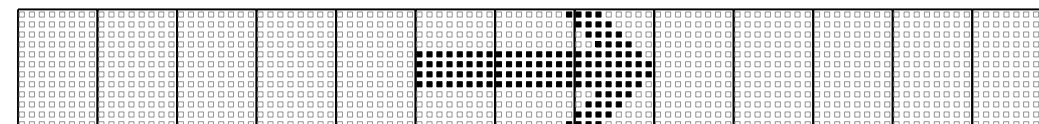
SHEET NO.

V-19

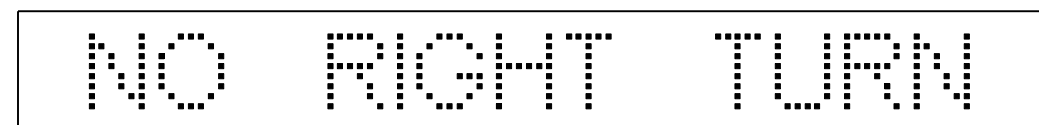
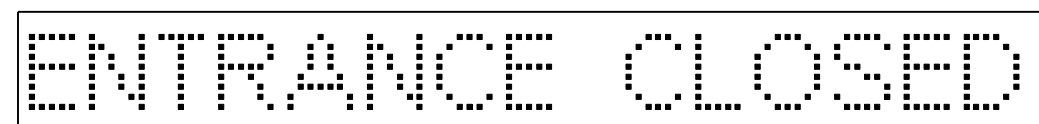
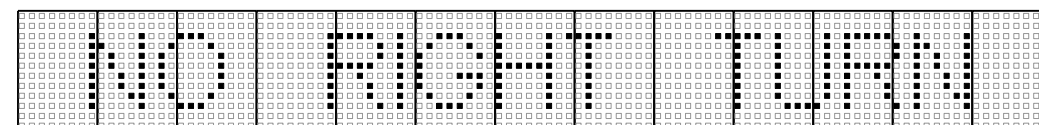
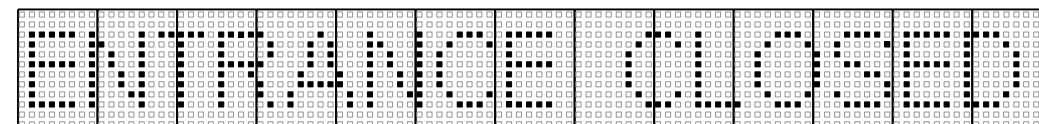


SIGN NAME	BRN-C04
SIGN TYPE	CMS
STATION NO.	STA 175+50
NO. OF BRICKS	1 X 13 = 13
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	13.1"

OPEN MESSAGE



TWO-PHASE CLOSED MESSAGE



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

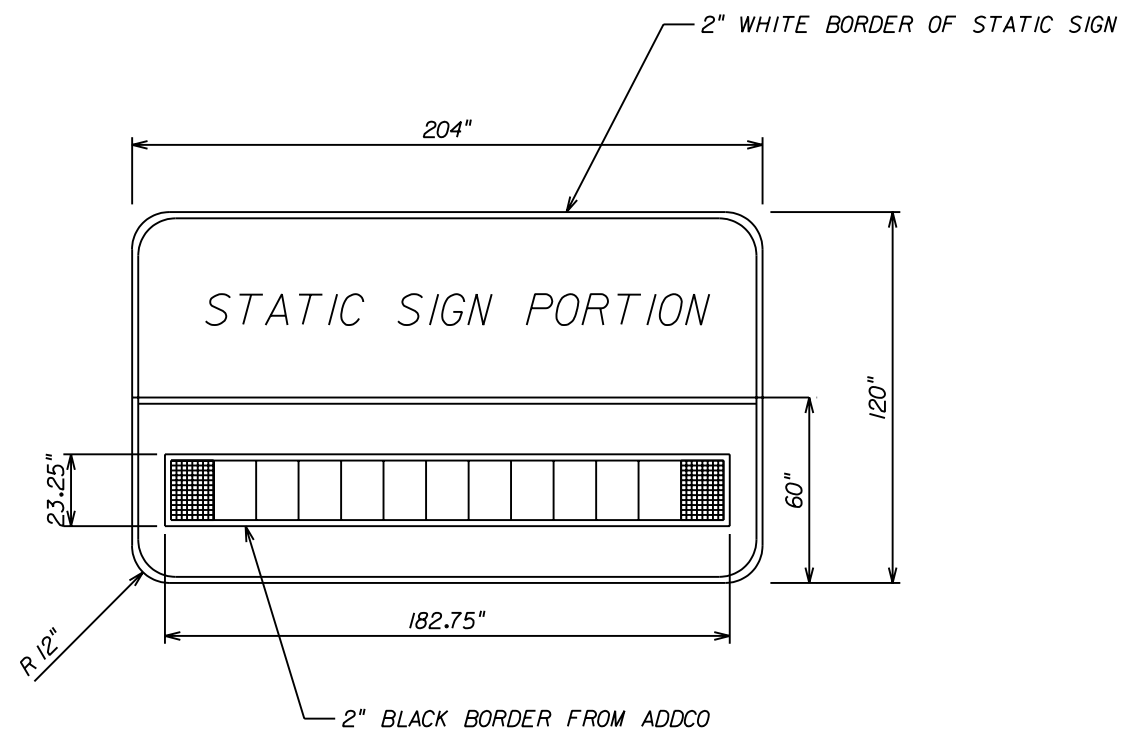
TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

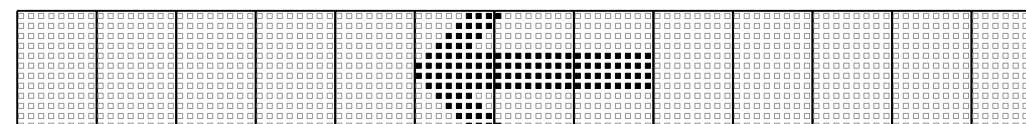
VMS/CMS DESIGN WORK SHEET

SHEET NO.

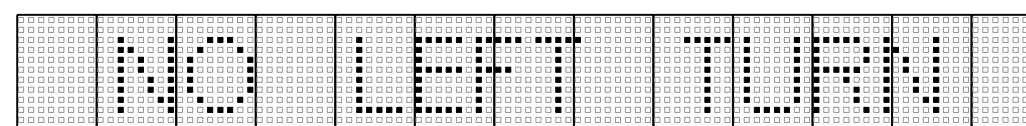
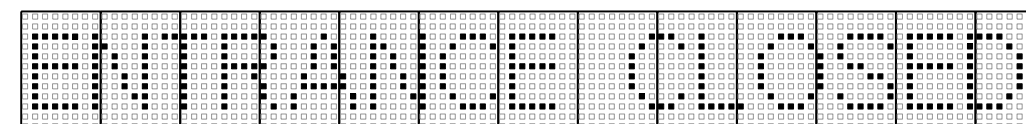
V-20



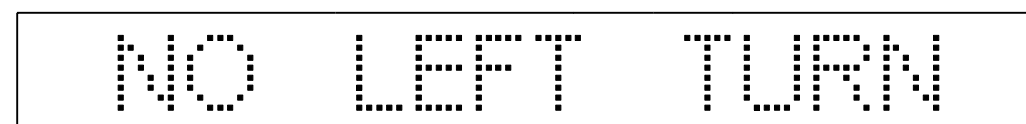
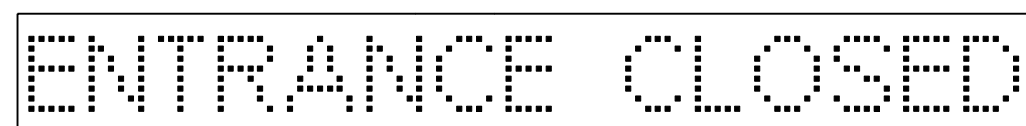
OPEN MESSAGE



TWO-PHASE CLOSED MESSAGE



SIGN NAME	BRN-C05
SIGN TYPE	CMS
STATION NO.	STA 167+60
NO. OF BRICKS	1 X 13 = 13
BRICK ORIENTATION	VERTICAL
FONT	ARIAL BOLD
FONT SIZE	13.1"



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

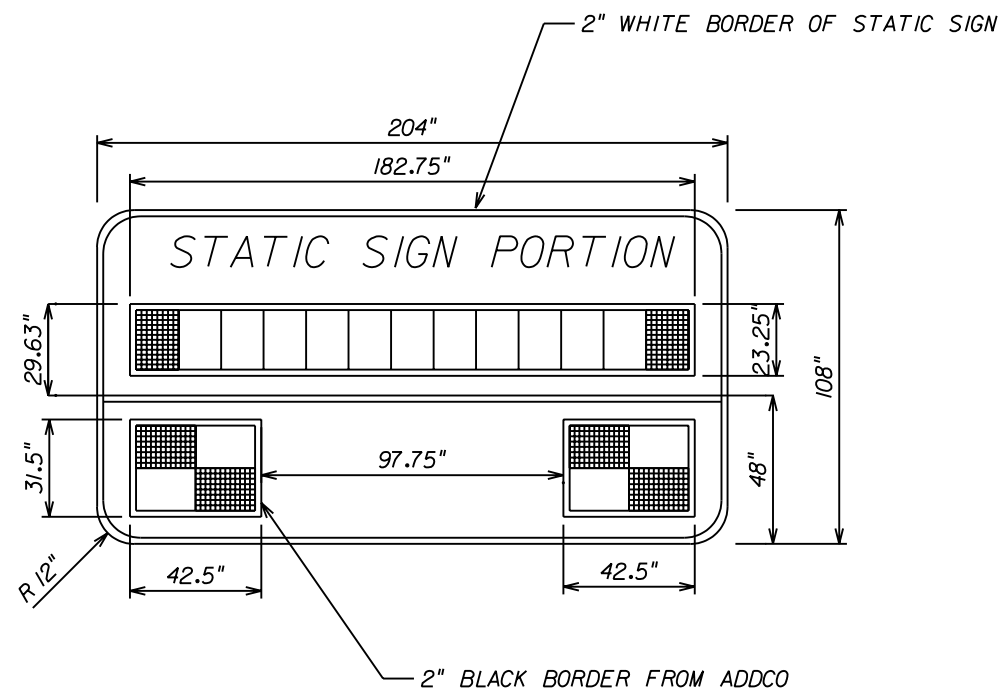
TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

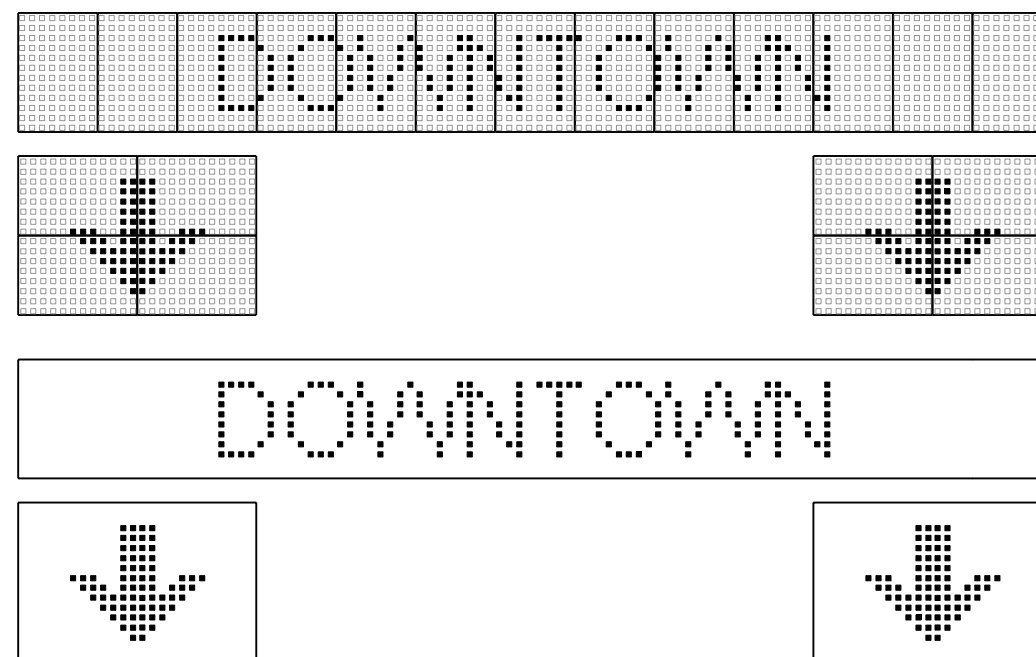
VMS/CMS DESIGN WORK SHEET

SHEET NO.

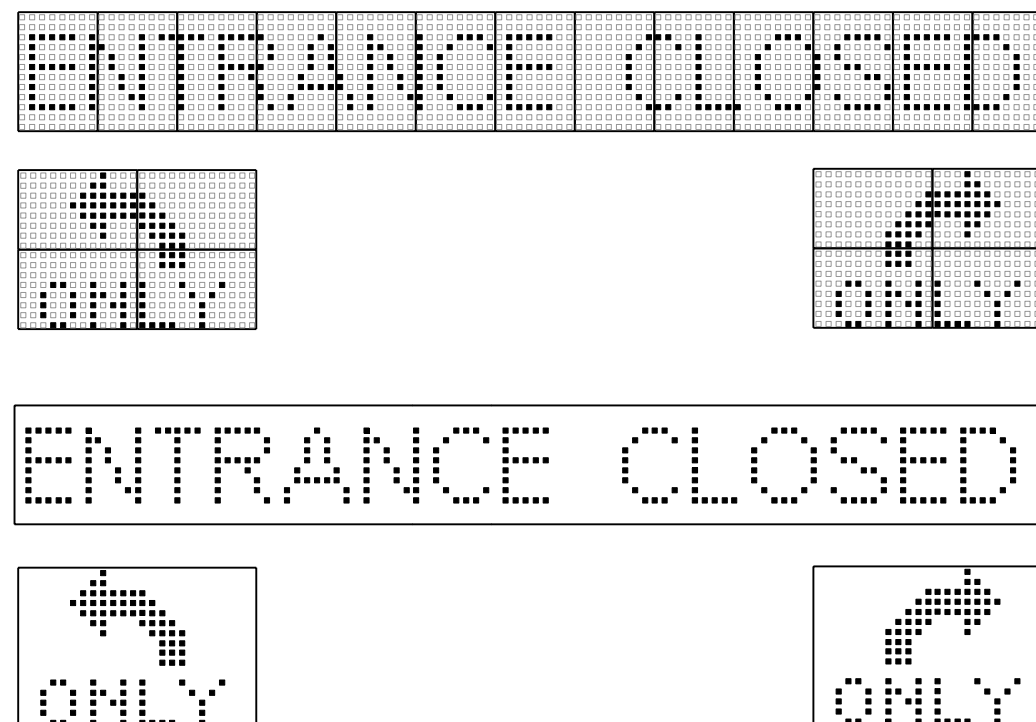
V-21



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	BRN-C06
SIGN TYPE	CMS
STATION NO.	STA 1303+80
NO. OF BRICKS	1x13 + 2x2 + 2x2 = 21
BRICK ORIENTATION	VERTICAL (UPPER) /HORIZONTAL (LOWER)
FONT	ARIAL BOLD
FONT SIZE	13.1"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

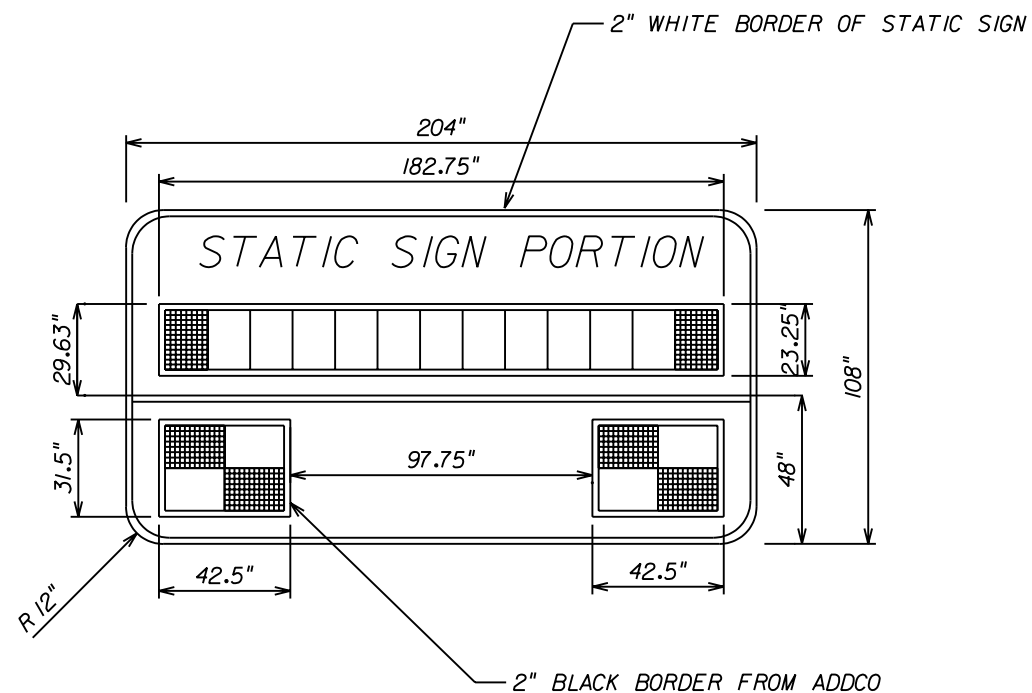
TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

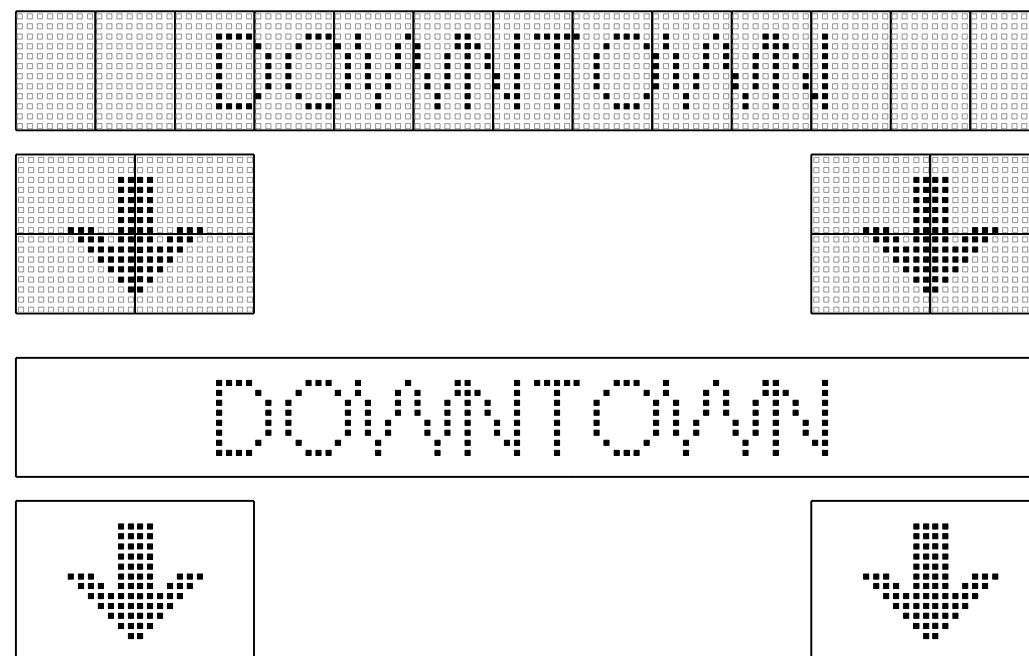
VMS/CMS DESIGN WORK SHEET

SHEET NO.

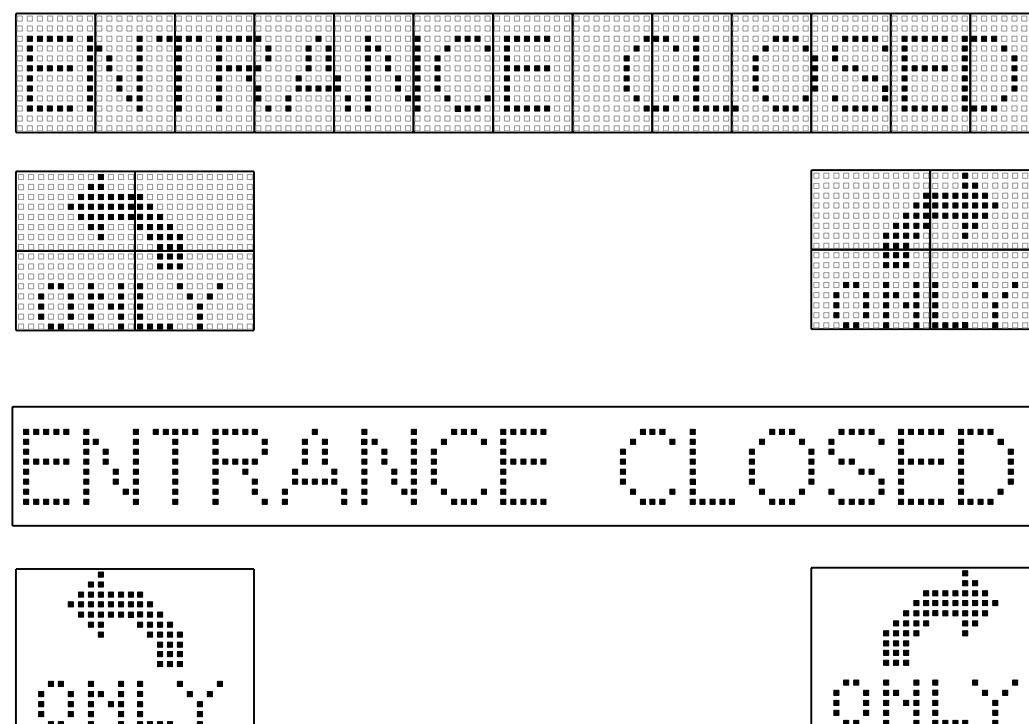
V-22



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	BRN-C07
SIGN TYPE	CMS
STATION NO.	STA 1308+50
NO. OF BRICKS	1x13 + 2x2 + 2x2 = 21
BRICK ORIENTATION	VERTICAL (UPPER) /HORIZONTAL (LOWER)
FONT	ARIAL BOLD
FONT SIZE	13.1"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

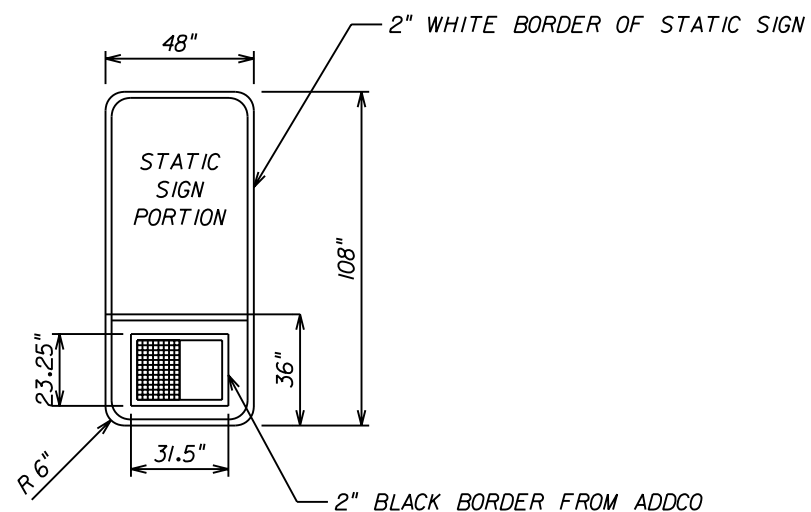
HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

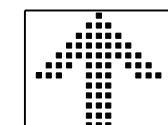
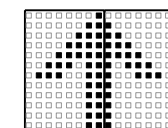
TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

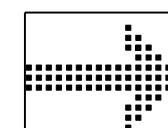
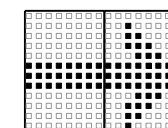
SHEET NO.
V-23



OPEN MESSAGE

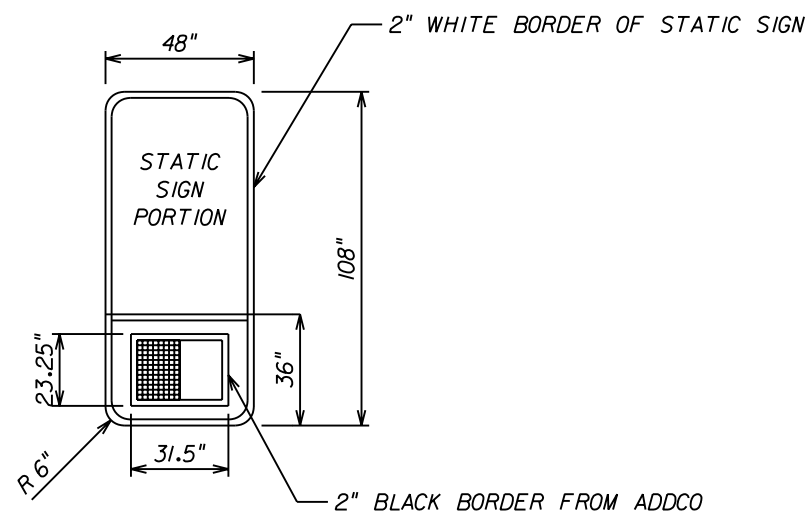


CLOSED MESSAGE

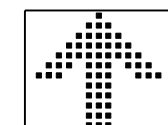
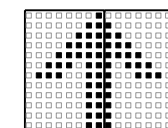


SIGN NAME	BRN-C08
SIGN TYPE	CMS
STATION NO.	1500' N OF BRANDON PKWY
NO. OF BRICKS	1 X 2 = 2
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

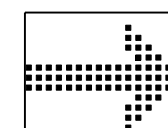
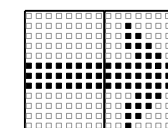
REVISIONS							TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	S.R. 618	HILLSBOROUGH	53.41.01	V-24



OPEN MESSAGE

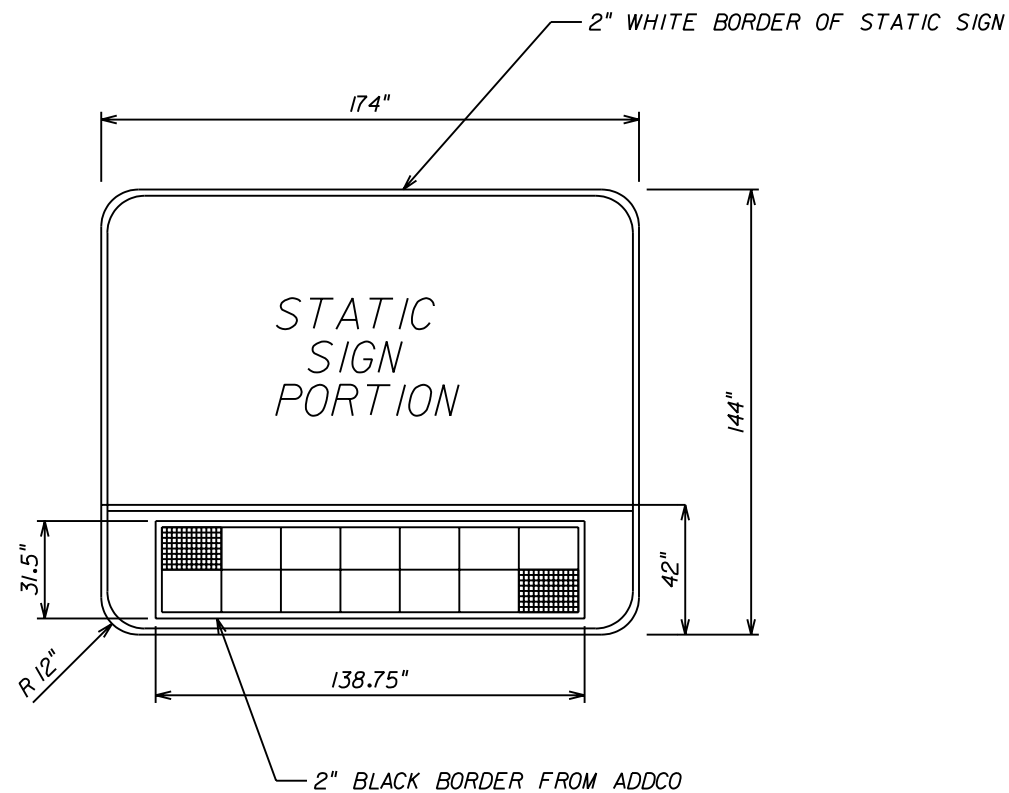


CLOSED MESSAGE

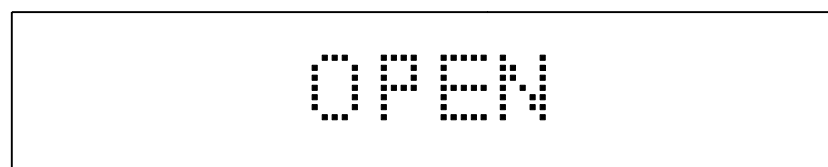
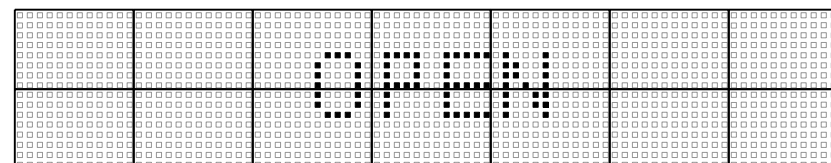


SIGN NAME	BRN-N09
SIGN TYPE	CMS
STATION NO.	STA 176+44
NO. OF BRICKS	1 X 2 = 2
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

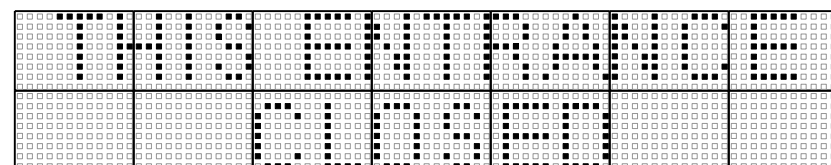
REVISIONS							TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	S.R. 618	HILLSBOROUGH	53.41.01	V-25



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	BRN-NIO
SIGN TYPE	CMS
STATION NO.	STA 166+94
NO. OF BRICKS	2 X 7 = 14
BRICK ORIENTATION	HORIZONTAL
FONT	ARIAL BOLD
FONT SIZE	12.5"

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

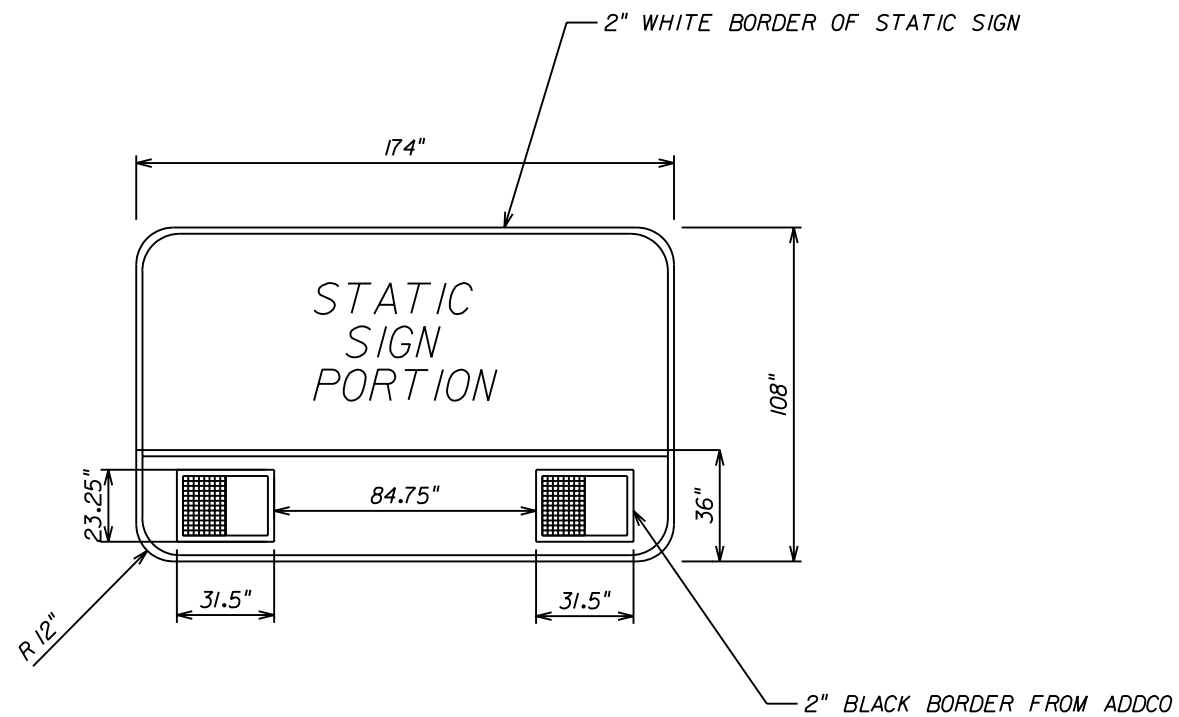
TAMPA-HILLSBOROUGH
 EXPRESSWAY AUTHORITY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

SHEET NO.

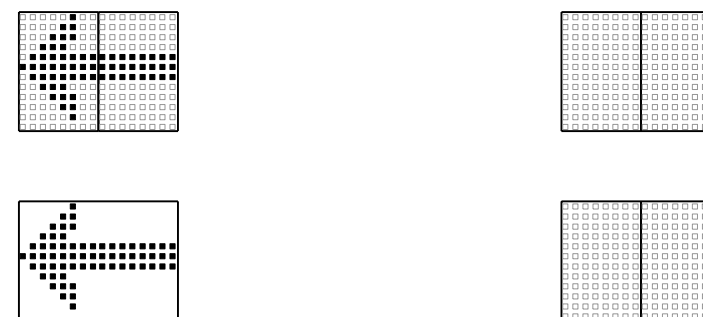
V-26



OPEN MESSAGE

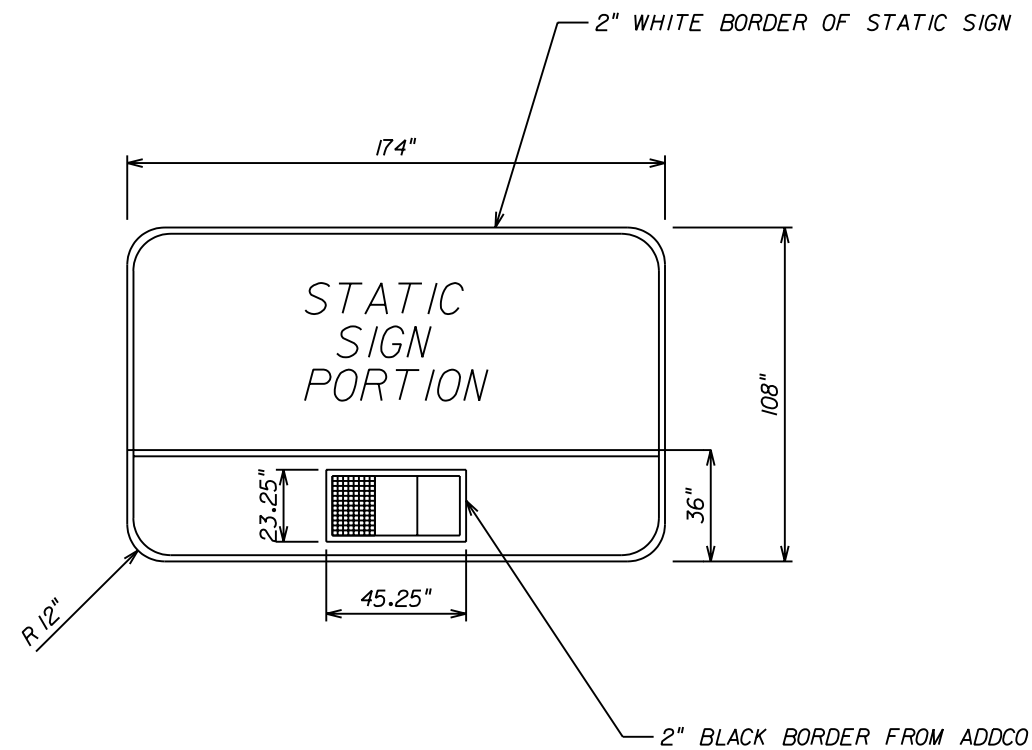


CLOSED MESSAGE

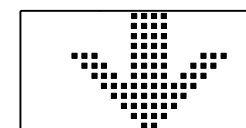
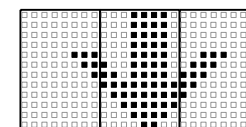


SIGN NAME	BRN-NCII
SIGN TYPE	CMS
STATION NO.	STA 155+89
NO. OF BRICKS	1X2X2 = 4
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

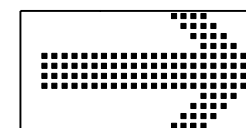
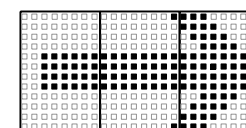
REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES <small>510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			VMS/CMS DESIGN WORK SHEET	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		V-27
						S.R. 618	HILLSBOROUGH	53.41.01			



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	BRN-NI3
SIGN TYPE	CMS
STATION NO.	STA 1195+21
NO. OF BRICKS	1 X 3 = 3
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB ARCHITECTS ENGINEERS PLANNERS
The HNTB COMPANIES

510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634
(813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185
ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770

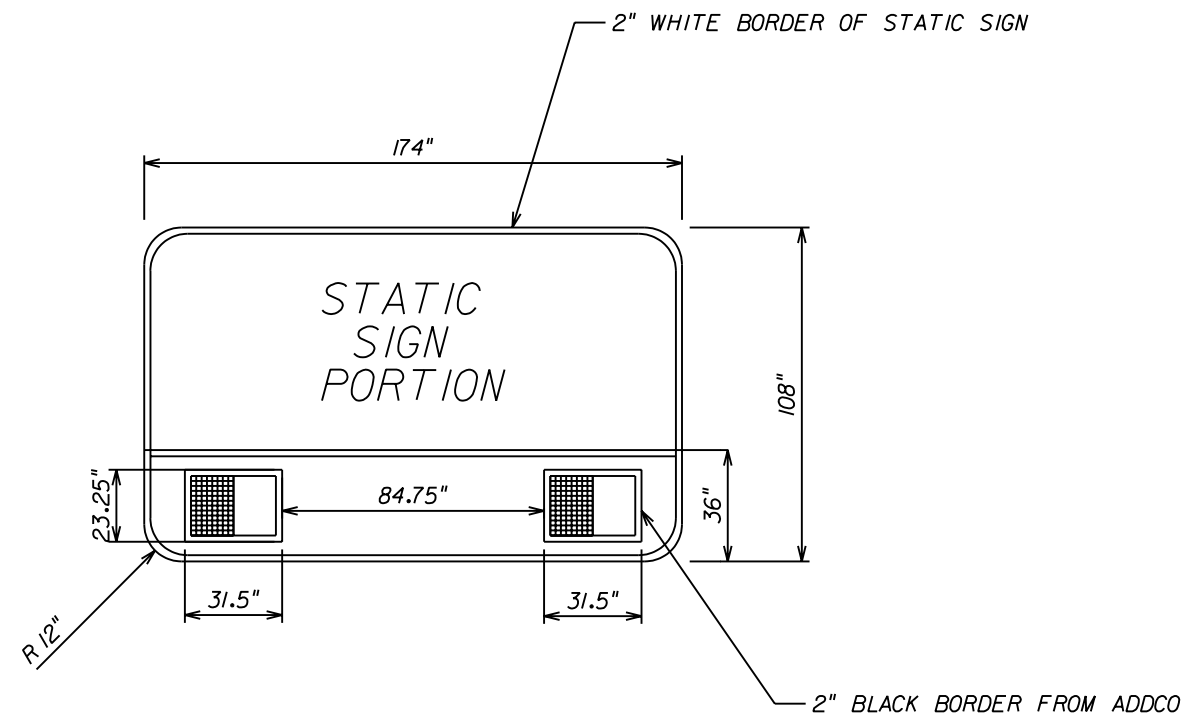
**TAMPA-HILLSBOROUGH
EXPRESSWAY AUTHORITY**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 618	HILLSBOROUGH	53.41.01

VMS/CMS DESIGN WORK SHEET

SHEET NO.

V-28



OPEN MESSAGE



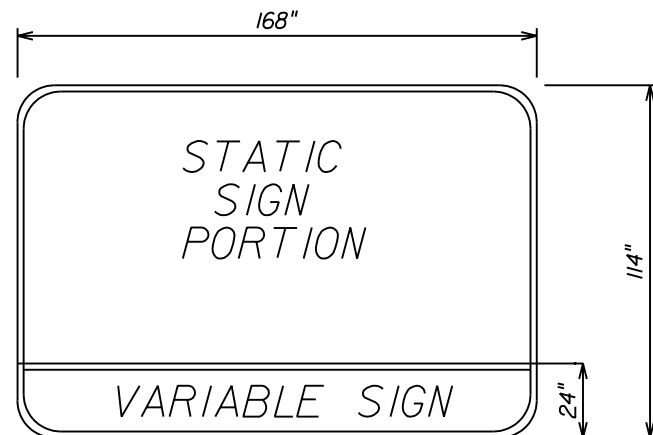
CLOSED MESSAGE



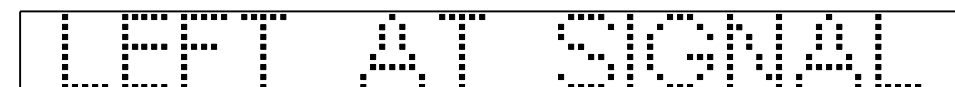
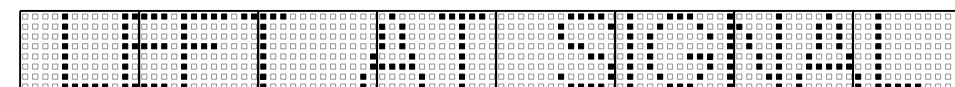
SIGN NAME	BRN-N14
SIGN TYPE	CMS
STATION NO.	STA 1327+24
NO. OF BRICKS	1X2X2 = 4
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS						 <small>ARCHITECTS ENGINEERS PLANNERS The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			<p style="font-size: 1.2em; font-weight: bold;">VMS/CMS DESIGN WORK SHEET</p>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		V-29
						<small>510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770</small>	S.R. 618	HILLSBOROUGH	53.41.01		

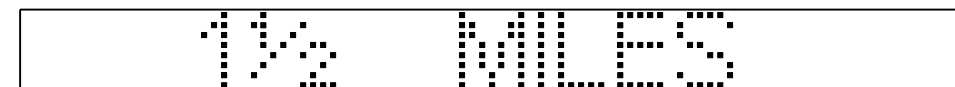
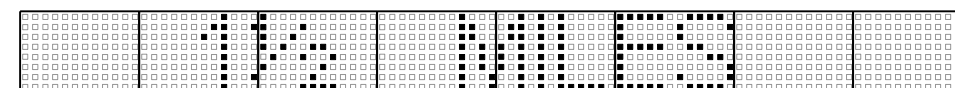
ORIGINAL PANEL DIMENSION



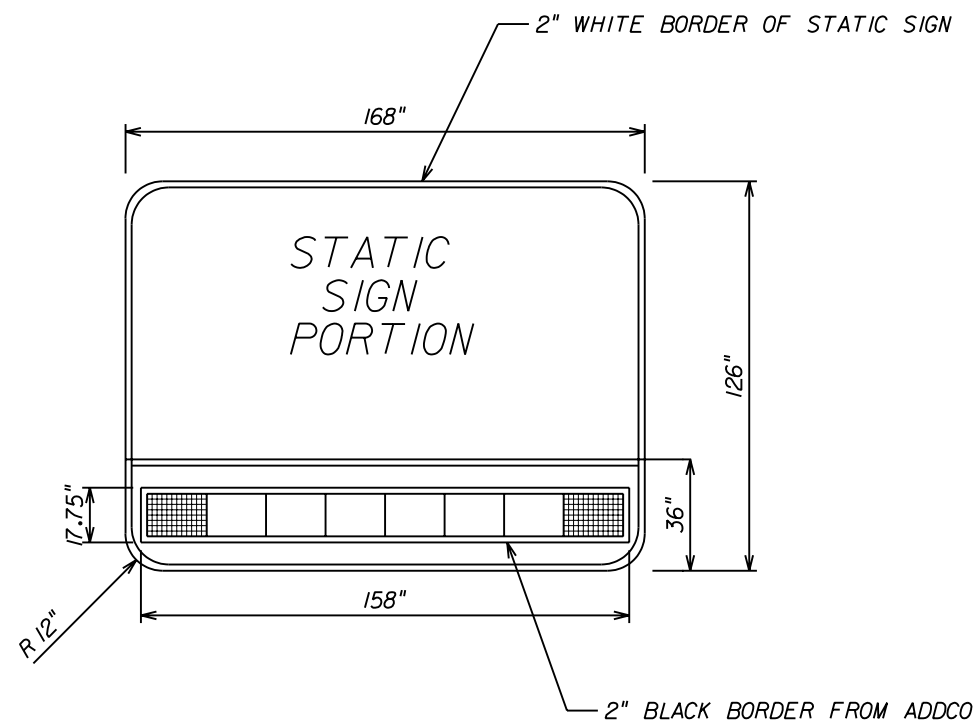
OPEN MESSAGE



CLOSED MESSAGE

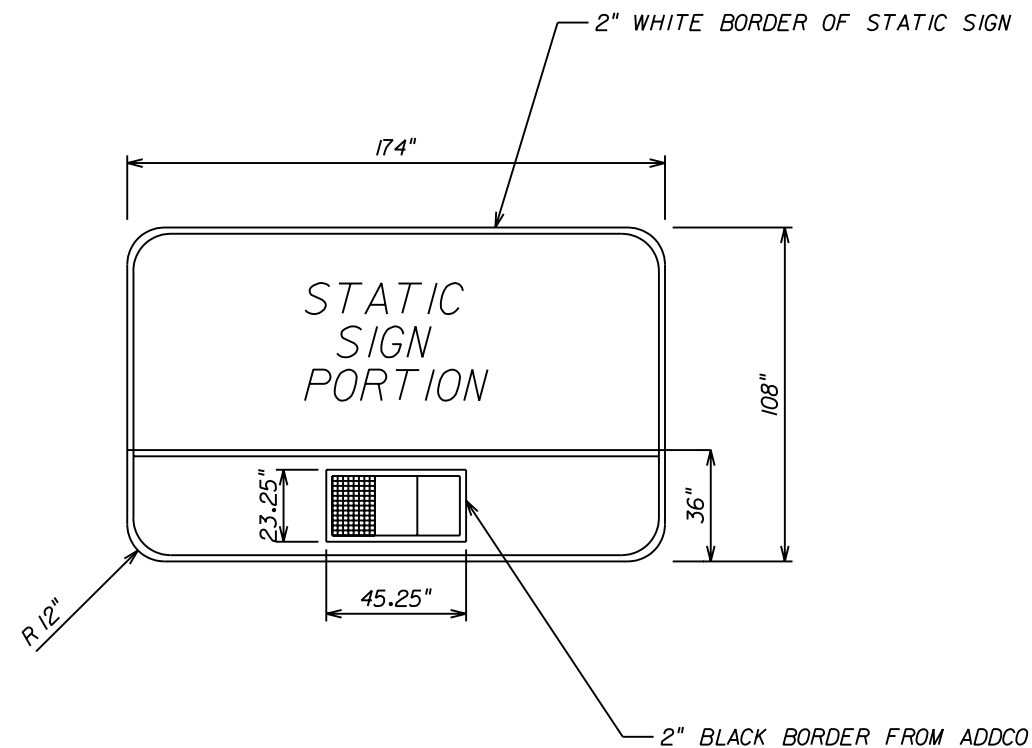


PROPOSED PANEL DIMENSION

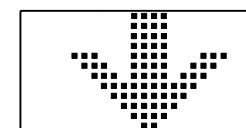
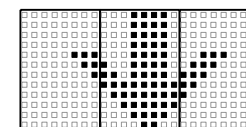


SIGN NAME	BRN-N15
SIGN TYPE	CMS
STATION NO.	145' E OF LAKEWOOD DR
NO. OF BRICKS	1 X 8 = 8
BRICK ORIENTATION	HORIZONTAL
FONT	ARIAL BOLD
FONT SIZE	14.1"

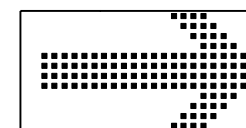
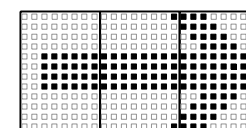
REVISIONS						HNTB ARCHITECTS ENGINEERS PLANNERS <small>The HNTB COMPANIES</small>	TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			VMS/CMS DESIGN WORK SHEET	SHEET NO. V-30
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						510 EISENHOWER BLVD., SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	S.R. 618	HILLSBOROUGH	53.41.01		



OPEN MESSAGE



CLOSED MESSAGE



SIGN NAME	BRN-N16
SIGN TYPE	CMS
STATION NO.	600' E OF BRANDON PKWY
NO. OF BRICKS	1 X 3 = 3
BRICK ORIENTATION	VERTICAL
FONT	
FONT SIZE	

REVISIONS							TAMPA-HILLSBOROUGH EXPRESSWAY AUTHORITY			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						510 EISENHOWER BLVD. SUITE 220 TAMPA, FL 33634 (813) 894-7339 CERTIFICATE OF AUTHORIZATION NO. EB6185 ENGINEER OF RECORD: GORDON D. ZIECINA, P.E. NO: 33770	S.R. 618	HILLSBOROUGH	53.41.01	V-31