

Document 00900

ADDENDUM NO. 01Date of Addendum: January 14, 2020PROJECT NAME: Trenton Rd at Professional Dr Signal ConstructionPROJECT NO: RFP 2020-04BID DATE: January 20, 2020

FROM: City of Edinburg
Att: Lorena Fuentes, Purchasing Agent
415 W. University Drive
Edinburg, Texas 78539
Phone: (956) 388-1895

TO: **Prospective Bidders**

This Addendum forms a part of the Bidding Documents and will be incorporated into Contract Documents, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs. Acknowledge receipt of the Addendum by inserting its number in Document 00310 - Form of Proposal. **FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.**

ADDENDUM NO. 01**BID DOCUMENTS**

1. Replace Request For Bids Document pages 2, 12, 15 and 29.
Changes made to indicate 1 original, 3 copies
2. Replace Document 00405 - SCHEDULE OF UNIT PRICE WORK – 2 pages

PLANS

1. Replace sheets 04, 08, 10 and 11

END OF ADDENDUM NO.01DATED:01-14-2020

Jose A. Sanchez, P.E.
TEDSI Infrastructure Group, Inc

END OF DOCUMENT

00900- 1 of 1



If Mailing Proposals:

City of Edinburg
C/o City Secretary
P.O. Box 1079
Edinburg, Texas 78540-1079

The City of Edinburg reserves the right to refuse and reject any or all RFP's and to waive any or all formalities or technicalities and to accept the RFP deemed most advantageous to the City, and hold the RFP's for a period of 90 days without taking action.

RFP's must be submitted in an envelope sealed with tape and prominently marked on the lower left hand corner of the envelope with corresponding RFP number and title.

Please read your requirements thoroughly and be sure that the RFP offered complies with all requirements/specifications noted. Any variation from the solicitation requirements/specifications must be clearly indicated by letter, on a point by point basis, attached to and made a part of your RFP. If no exceptions are noted, and you are the successful respondent, it will be required that the service(s) be provided as specified.

PURPOSE

(1) The purpose of these solicitation documents is to provide a proposal for signal construction improvements consisting of traffic signal components, signing and pavement markings for:

Trenton Rd at Professional Dr Signal Construction

INTENT

(2) The services to be provided under this RFP shall be in accordance with and shall meet all specifications and/or requirements as shown in this solicitation for RFP. There is no intention to disqualify any respondent who can meet the requirements.

SUBMITTAL OF RFP

(4) RFPs shall be submitted in sealed envelopes as referenced on the attached solicitation. **Four** (4) complete sets of the response, one (1) original marked "**ORIGINAL**," and three (3) copies marked "**COPY**". RFPs submitted by facsimile (fax) or electronically shall **NOT** be accepted. Submittal of an RFP in response to this solicitation constitutes an offer by the respondent. Once submitted, RFP's become the property of the City of Edinburg and as such the City reserves the right to use any ideas contained in any RFP regardless of whether that respondent/firm is selected. Submission of a RFP in response to this solicitation, by any respondent, shall indicate that the respondent(s) has/have accepted the conditions contained in the RFP, unless clearly and specifically noted in the RFP submitted and confirmed in the contract between the City and the successful respondent otherwise. RFPs which do not comply with these requirements may be rejected at the option of the City. RFPs must be filed with the City of Edinburg before the deadline day and hour. No late RFPs will be accepted. They will be returned to respondent unopened (if properly identified). Failure to meet RFP requirements may be grounds for disqualification.

Hand Delivered RFP'S:

415 W. University Drive
c/o City Secretary Department (1st Floor)

SECTION II RFP REQUIREMENTS

PURPOSE

The intent of this Request for Proposal and resulting contract is to obtain proposals to Trenton Rd at Professional Dr Signal Construction.

REQUEST FOR PROPOSALS

The required contents and limitations for the preparation of the RFP are described in this section. Failure to provide the requested information or adhere to any of The CITY limitations will result in disqualification of the submitted RFP. A total of **one (1) original and three (3) copies** of the RFP shall be submitted to the address on the cover letter. Letter of Intent from Surety Company to provide Payment and Performance Bonds shall also be required from the proposer as part of RFP.

SUBMITTAL

For proper comparison and evaluation, THE CITY requests that proposals address, at a minimum, the following format.

- 1) **Cover Letter** - A brief introductory letter of representation.
- 2) **Executive Summary** - A brief summary highlighting the most important points of the proposal. If used, the Summary should not exceed five pages.
- 3) **Degree of Compliance** - A statement that all products and services quoted in proposal is in full accord with the specifications or a brief listing of all those specification sections to which the Proposer takes exception. All explanations, exceptions, comments, etc., pertaining to the specific sections of the specifications shall be listed and numbered in order of the respective article of the specification.

CONTENTS

The required contents for the RFP are presented below in the order they should be incorporated into the submitted document.

- 1) **UNDERSTANDING OF THE PROJECT:** This section should demonstrate the submitter's understanding of the project's needs, the work required, and any local issues or concerns. This description should be concise, candid, and limited to 2 pages in length.
- 2) **FIRM QUALIFICATIONS, PERSONNEL AND STAFFING (00420 Statement of Bidder's Qualifications):** The CITY is seeking a contract with a competent firm(s); with a minimum of 5 years' experience of installation of Traffic Signals.
 - a) **Qualifications:**
 - i) List Firm's qualifications and ability to perform the service requirements.

SECTION III SELECTION AND SCHEDULES

SELECTION PROCEDURES

The RFP shall be submitted according to the schedule below.

PROPOSAL RANKING

A selection committee will evaluate and rank the written RFPs on a per project basis. After the RFPs have been ranked, the committee will make a recommendation to the CITY Council.

RFP SUBMITTED TO

An original and three (3) copies of RFPs should be submitted to:

City of Edinburg
c/o City Secretary
415 West University
P.O. Box 1079
Edinburg, Texas 78541

RFPs must be submitted by no later than 3:00 p.m. on Monday, January 20, 2020.

ATTACHMENT VII

SUBMITTAL CHECKLIST

This checklist is to help the company submitting proposal for the Trenton Rd at Professional Dr Signal Construction ensure that all required documents have been included in its submittal.

Document and Location in Submittal	Check or Initial to Indicate Document is Attached to Submittal
Tab A – Interest Statement	
Tab B – Company submitting proposal for the TRENTON RD AT PROFESSIONAL DR SIGNAL CONSTRUCTION Qualification General Questionnaire (Attachment VI in RFP)	
Tab C – *Project Requirements Acknowledgement (Attachment V in RFP)	
Tab D – Litigation Disclosure (Attachment IV in RFP)	
Tab E – Proof of Insurability (Letter from Insurance Provider and copy of current Insurance Certificate)	
Tab F – *Insurance Requirement Acknowledgement (Attachment II in RFP)	
Tab G – Letter of Intent from Surety Company to provide Payment and Performance Bonds. (Section II in RFP Requirements)	
Tab H – Submittal Checklist (Attachment VI in RFP)	
Tab I - *House Bill 89 Verification (Attachment VI)	
Tab J- *Formal Proposal for the TRENTON RD AT PROFESSIONAL DR SIGNAL CONSTRUCTION	
1 Original* and 3 Copies of Submittal	

***Documents marked with an asterisk on this checklist require a signature. Be sure they are signed prior to submittal.**

Document 00405

SCHEDULE OF UNIT PRICE WORK

This Document, constitutes a Supplement to Document 00310 - Form of Proposal.
 When a Contract is awarded, this Document becomes a supplement to Document 00500 - Form of Agreement Between Owner and Contractor.

BASE BID					
SPEC NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE ⁽¹⁾ (in figures)	UNIT TOTAL (in figures)
0416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	12	LF	\$	\$
0416-6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	64	LF	\$	\$
0500-6001	MOBILIZATION	1	LS	\$	\$
0502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	6	MO	\$	\$
0506-6038	TEMP SEDMT CONT FENCE (INSTALL)	180	LF	\$	\$
0506-6039	TEMP SEDMT CONT FENCE (REMOVE)	180	LF	\$	\$
0618-6016	CONDT (PVC) (SCH 40) (1")	60	LF	\$	\$
0618-6023	CONDT (PVC) (SCH 40) (2")	888	LF	\$	\$
0618-6033	CONDT (PVC) (SCH 40) (4")	69	LF	\$	\$
0618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	50	LF	\$	\$
0620-6007	ELEC CONDR (NO.8) BARE	66	LF	\$	\$
0620-6009	ELEC CONDR (NO.6) BARE	44	LF	\$	\$
0620-6010	ELEC CONDR (NO.6) INSULATED	106	LF	\$	\$
0621-6005	TRAY CABLE (4 CONDR) (12 AWG)	305	LF	\$	\$
0624-6002	GROUND BOX TY A (122311)W/APRON	11	EA	\$	\$
0624-6008	GROUND BOX TY C (162911)W/APRON	1	EA	\$	\$
0625-6002	ZINC-COAT STL WIRE STRAND (3/16")	1158	LF	\$	\$
0625-6004	ZINC-COAT STL WIRE STRAND (5/16")	951	LF	\$	\$
0628-6301	ELC SRV TY T 120/240 000(NS)GS(L)TS(O)	1	EA	\$	\$
0644-6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	8	EA	\$	\$
0644-6076	REMOVE SM RD SN SUP&AM	1	EA	\$	\$
0666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	200	LF	\$	\$
0666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	1173	LF	\$	\$
0668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	216	LF	\$	\$
0668-6077	PREFAB PAV MRK TY C (W) (ARROW)	3	EA	\$	\$
0668-6085	PREFAB PAV MRK TY C (W) (WORD)	3	EA	\$	\$
0668-6108	PREFAB PAV MRK TY C (Y) (24") (SLD)	22	LF	\$	\$
0672-6007	REFL PAV MRKR TY I-C	18	EA	\$	\$
0672-6009	REFL PAV MRKR TY II-A-A	62	EA	\$	\$
0677-6001	ELIM EXT PAV MRK & MRKS (4")	1200	LF	\$	\$
0680-6002	INSTALL HWY TRF SIG (ISOLATED)	1	EA	\$	\$
0682-6001	VEH SIG SEC (12")LED(GRN)	4	EA	\$	\$
0682-6002	VEH SIG SEC (12")LED(GRN ARW)	3	EA	\$	\$
0682-6003	VEH SIG SEC (12")LED(YEL)	4	EA	\$	\$
0682-6004	VEH SIG SEC (12")LED(YEL ARW)	4	EA	\$	\$
0682-6005	VEH SIG SEC (12")LED(RED)	6	EA	\$	\$
0682-6006	VEH SIG SEC (12")LED(RED ARW)	1	EA	\$	\$
0682-6018	PED SIG SEC (LED) (COUNTDOWN)	2	EA	\$	\$
0682-6023	BACK PLATE (12")(3 SEC)	4	EA	\$	\$
0682-6024	BACK PLATE (12")(4 SEC)	1	EA	\$	\$
0684-6010	TRF SIG CBL (TY A)(12 AWG)(5 CONDR)	824	LF	\$	\$
0684-6012	TRF SIG CBL (TY A)(12 AWG)(7 CONDR)	229	LF	\$	\$
0684-6080	TRF SIG CBL (TY C)(14 AWG)(2 CONDR)	2224	LF	\$	\$
0686-6019	INS TRF SIG PL AM (S)STR(TY D)	2	EA	\$	\$
0686-6020	INS TRF SIG PL AM (S)STR(TY D)LUM	2	EA	\$	\$
0687-6001	PED POLE ASSEMBLY	2	EA	\$	\$
0688-6001	PED DETECT PUSH BUTTON (APS)	2	EA	\$	\$

0688-6004	VEH LP DETECT (SAWCUT)	1230	LF	\$	\$
1000-6001	OPTICOM SYSTEM	1	EA	\$	\$
IN CASE OF DISCREPANCIES, UNIT PRICE RULES OVER UNIT TOTAL					

TOTAL BASE BID PRICE (Sum of Base Bid Unit Total Prices)

\$ _____

Notes:

(1) United States Dollars. In the event of a discrepancy, this column shall govern.

ALTERNATE BID 1					
SPEC NO.	DESCRIPTION	QTY	UNIT	UNIT PRICE ⁽¹⁾ (in figures)	UNIT TOTAL (in figures)
0531-6001	CONC SIDEWALKS (4")	18	SY	\$	\$
0531-6018	CURB RAMPS (TY 1)	1	SY	\$	\$
0531-6010	CURB RAMPS (TY 7)	1	EA	\$	\$
0644-6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	3	EA	\$	\$
IN CASE OF DISCREPANCIES, UNIT PRICE RULES OVER UNIT TOTAL					

TOTAL ALTERNATE BID 1 PRICE (Sum of Alternate Bid 1 Unit Total Prices)

\$ _____

Notes:

(1) United States Dollars. In the event of a discrepancy, this column shall govern.

Project: Trenton Rd at Professional Dr Signal Construction .

Project No. RFP 2020-04 Bidder's Signature: _____

Company: _____ Name: _____

Date: _____ Title: _____

END OF DOCUMENT



34. REPLACE/RELOCATE ALL REGULATORY SIGNS REMOVED DUE TO CONSTRUCTION OPERATIONS WITH A SAME SIGN ON FIXED SUPPORT(S) IMMEDIATELY UPON ITS REMOVAL. FIRST OBTAIN PROJECT ENGINEER APPROVAL BEFORE REMOVING ANY REGULATORY ROADWAY SIGN. REQUIRED FLAGGERS ARE TO BE AVAILABLE TO DIRECT TRAFFIC DURING SIGN INTERMEDIATE DOWN TIME.
35. RELOCATE ANY DIRECTIONAL SIGN ASSEMBLIES REMOVED DURING CONSTRUCTION OPERATIONS IMMEDIATELY UPON THEIR REMOVAL. THESE SIGNS SHALL BE RELOCATED TO A LOCATION IN ACCORDANCE WITH THE LATEST VERSION OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". IN NO CASE WILL A SIGN BE REMOVED WITHOUT A REPLACEABLE SIGN AND SUPPORT(S) BEING READILY AVAILABLE AND A LOCATION ESTABLISHED. REMOVAL AND RELOCATION OF THESE SIGNS REQUIRED FOR TRAFFIC CONTROL WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 502.
36. CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVEWAYS DURING ALL PHASES OF CONSTRUCTION.

ITEM 618 - CONDUIT

1. THE LOCATION OF CONDUIT LINES ARE DIAGRAMMATIC ONLY AND MAY BE ADJUSTED BY THE ENGINEER TO ACCOMMODATE FIELD CONDITIONS.
2. ACTUAL CONDUIT LENGTHS, LOCATIONS AND CONFIGURATIONS SHALL BE VERIFIED AT EACH INTERSECTION AND SHALL BE AS DIRECTED AND/OR APPROVED BY THE ENGINEER.
3. ~~THE CONDUIT SHALL BE PLACED ON A 2" SAND CUSHION AND THEN BACKFILLED WITH A MINIMUM OF 6" SAND FILL. THE REMAINDER OF THE TRENCH SHALL BE BACKFILLED WITH FLEXIBLE BASE, SOIL OR 2" BACK CONCRETE AS REQUIRED BY LOCATION OF CONDUIT ON THE PROJECT OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PLACE RED TAPE IN TRENCH.~~
4. CONDUIT SHALL BE PLACED IN AN AREA NOT EXCEEDING 2' IN ANY DIRECTION FROM A STRAIGHT LINE AND THE DEPTH OF THE CONDUIT SHALL BE 2' EXCEPT WHEN CROSSING A ROADWAY WHERE THE DEPTH SHALL BE MORE THAN 3'.
5. THE OPEN TRENCH METHOD FOR PLACING CONDUIT UNDER PAVEMENT WILL NOT BE ALLOWED UNLESS SPECIFIED IN THE PLANS AND APPROVED BY THE ENGINEER.
6. WHEN CONDUIT IS PLACED BY JACKING OR BORING, CONDUIT SHALL BE PLACED AT LEAST 1' BELOW THE BOTTOM OF THE BASE MATERIAL. ANY EVIDENCE OF DAMAGE TO THE ROADWAY DURING THE JACKING OR BORING OPERATION SHALL BE SUFFICIENT GROUNDS TO STOP METHOD BEING USED.
7. ALL COUPLINGS AND CONNECTIONS SHALL BE TIGHT AND WATERPROOF. ALL PROPOSED AND EXISTING CONDUITS SHALL BE BROUGHT INTO A GROUND BOX USING 45 DEGREE ELBOWS, UNLESS OTHERWISE SHOWN.
8. IN THE EVENT ANY EXISTING CONDUIT SHOWN ON THESE PLANS PROVES TO BE NO LONGER USABLE DUE TO LOCATION OR DAMAGE, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE SUCH SECTIONS OF CONDUIT WITH THE SIZE AND TYPE INDICATED ON THESE PLANS, AT THE CONTRACTOR'S EXPENSE.
9. AT EACH POINT WHERE THE CONDUIT PASSES BENEATH THE CURB, THE CONTRACTOR SHALL PLACE A 3/8" GALVANIZED CARRIAGE BOLT IN THE CURB AS A MEANS OF MARKING THE LOCATION OF THE CONDUIT. PAYMENT FOR FURNISHING AND PLACING BOLTS IS TO BE INCLUDED IN THE UNIT BID PRICE FOR CONDUIT.
10. ALL EXPOSED CONDUIT SHALL BE RIGID METAL CONDUIT (RMC)

10. ALL EXPOSED CONDUIT SHALL BE RIGID METAL CONDUIT (RMC)
11. ALL CONDUIT ENDS, POLE BASES, CONTROLLERS AND GROUND BOXES SHALL BE PLUGGED WITH POLYURETHANE SEALANT OR ITS EQUIVALENT AFTER CABLES ARE IN PLACE.
12. POLYURETHANE SEALANT OR EQUIVALENT MATERIAL SHALL BE SUITABLE FOR CURING IN THE PRESENCE OF MOISTURE. SEALANT SHALL BE SUITABLE FOR USE IN SEALING ENDS OF PVC PIPE WITH ELECTRICAL CONDUCTOR RUNNING THROUGH THE PIPE. THE SEALANT SHALL ENCAPSULATE AND PROTECT ELECTRICAL CONDUCTORS AND SEAL ENDS OF PVC PIPE FROM MOISTURE AND DIRT. THE CONDUIT SHALL BE SEALED TO A MINIMUM OF 3" AND A MAXIMUM OF 6".
13. PVC CONDUIT SYSTEMS THAT SNAP OR LOCK TOGETHER WITHOUT GLUE WILL BE ALLOWED FOR BORED PVD SCHEDULE 40 IF DESIGNED/UL LISTED FOR USE AS BORED PVC ELECTRICAL CONDUIT APPLICATIONS. WHEN APPROVED BY THE ENGINEER, IT WILL BE ALLOWED FOR BORED PVC SCHEDULE 80. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR WHEN THESE SPECIFIC PURPOSE CONDUIT SYSTEMS ARE SUBSTITUTED FOR THIS PURPOSE.
14. INSTALLATION OF THE CONDUIT SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C)
15. WHEN BACKFILLING BORE PITS, THE CONTRACTOR MUST ENSURE THAT THE CONDUIT DOES NOT BECOME DAMAGED DURING INSTALLATION OF DUE TO ANY SETTLING OF THE BACKFILL IN THREE EQUAL LIFTS TO THE BOTTOM OF THE CONDUIT, OR IF SAND IS USED, IT MUST BE PLACED TO A POINT 2" ABOVE THE CONDUIT. BACKFILL DENSITY SHALL BE EQUAL TO THE EXISTING SOIL. DUE CARE SHOULD BE EXERCISED TO PREVENT ANY MATERIAL FROM ENTERING THE CONDUIT.
16. BORE PITS SHALL BE NO CLOSER THAN 2.5' FROM EDGE OF THE BASE OR PAVEMENT.
17. ALL EXPOSED CONDUITS SHALL BE RIGID METAL CONDUIT (RMC).
18. PULLING CONDUCTORS IN PVC CONDUIT SHALL BE ACCOMPLISHED WITH NONMETALLIC PULL ROPE.
19. WHEN PULLING CABLES OR CONDUCTORS THROUGH CONDUIT, MANUFACTURERS RECOMMENDED PULLING TENSIONS SHALL NOT BE EXCEEDED AND THE CABLES OR CONDUCTORS SHALL BE LUBRICATED WITH A LUBRICANT AS RECOMMENDED BY THE CABLE MANUFACTURER.
20. ALL CONDUITS SHALL BE LABELED AT EACH END OR WHEREVER THE CONDUIT ENTERS/EXISTS A GROUND BOX, USE 2" ROUND BRASS TAGS STATING CONDUIT CONTENT (AVI, PWR, VES, COM. VIDEO, ETC.).
21. IF TRENCHING IS ALLOWED BY THE ENGINEER, PRIOR TO BACKFILLING CONDUIT TRENCHES, A DETECTABLE UN-DERGROUND METALIZED MYLAR MAKING TAPE SHALL BE PLACED ABOVE THE CONDUIT. THE SUPPLYING AND INSTALLATION OF THE MARKING TAPE SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDRED INCIDENTAL TO THE VARIOUS BID ITEMS. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR WHEN THESE SPECIFIC PURPOSE CONDUIT SYSTEMS ARE SUBSTITURED FOR THIS PURPOSE.

ITEM 620 - ELECTRICAL CONDUCTORS

1. A MINIMUM LENGTH OF CONDUCTOR OF 5' SHALL BE LEFT IN EACH GROUND BOX OR AS OTHERWISE DIRECTED BY THE ENGINEER. NO ALUMINUM CONDUCTORS WILL BE PERMITTED ON THIS PROJECT.
2. A MINIMUM LENGTH OF 2' FOR EACH CABLE SHALL BE LEFT IN EACH METAL POLE BASE. FOR EACH CONDUCTOR TERMINATING IN THE CONTROLLER CABINET, A MINIMUM OF 5' LENGTH SHALL BE PROVIDED.

1/14/2020 2:07:12 PM c:\pw-teds\connect\dms64723\2019-2069-01_SIG.dgn

A	01-14-20	REVISIONS FOR ADDENDUM NO. 1	TEDSI
NO.	DATE	REVISION	APP.



AUTHORIZED 01-14-2020



TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 83
 Mission, Texas 78572
 (956) 424-7898

TRENTON RD AT PROFESSIONAL DR

GENERAL NOTES

SHEET 03 OF 06

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
		04
STATE	DIST.	COUNTY
TEXAS	PHR	HIDALGO
CONT.	SECT.	JOB
		HIGHWAY NO.

SUMMARY OF QUANTITIES - BASE BID

ITEM CODE	NOTES	DESCRIPTION	UNIT	TOTAL QTY
0416-6030		DRILL SHAFT (TRF SIG POLE) (24 IN)	LF	12
0416-6032		DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	64
0500-6001		MOBILIZATION	LS	1
0502-6001		BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	6
0506-6038		TEMP SEDMT CONT FENCE (INSTALL)	LF	180
0506-6039		TEMP SEDMT CONT FENCE (REMOVE)	LF	180
0618-6016		CONDT (PVC) (SCH 40) (1")	LF	60
0618-6023		CONDT (PVC) (SCH 40) (2")	LF	888
0618-6033		CONDT (PVC) (SCH 40) (4")	LF	69
0618-6047		CONDT (PVC) (SCH 80) (2") (BORE)	LF	50
0620-6007		ELEC CONDR (NO.8) BARE	LF	66
0620-6009		ELEC CONDR (NO.6) BARE	LF	44
0620-6010		ELEC CONDR (NO.6) INSULATED	LF	106
0621-6005		TRAY CABLE (4 CONDR) (12 AWG)	LF	305
0624-6002		GROUND BOX TY A (122311)W/APRON	EA	11
0624-6008		GROUND BOX TY C (162911)W/APRON	EA	1
0625-6002		ZINC-COAT STL WIRE STRAND (3/16")	LF	1158
0625-6004		ZINC-COAT STL WIRE STRAND (5/16")	LF	951
0628-6301		ELC SRV TY T 120/240 000(NS)GS(L)TS(O)	EA	1
0644-6001		IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	8
0644-6076		REMOVE SM RD SN SUP&AM	EA	1
0666-6036		REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	200
0666-6315		RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF	1173
0668-6076		PREFAB PAV MRK TY C (W) (24") (SLD)	LF	216
0668-6077		PREFAB PAV MRK TY C (W) (ARROW)	EA	3
0668-6085		PREFAB PAV MRK TY C (W) (WORD)	EA	3
0668-6108		PREFAB PAV MRK TY C (Y) (24") (SLD)	LF	22
0672-6007		REFL PAV MRKR TY I-C	EA	18
0672-6009		REFL PAV MRKR TY II-A-A	EA	62
0677-6001		ELIM EXT PAV MRK & MRKS (4")	LF	1200
0680-6002		INSTALL HWY TRF SIG (ISOLATED)	EA	1
	1	TS2 CABINET W/CONTROLLER	EA	1
	1	FOUNDATION FOR CABINET	EA	1
	1	GROUND ROD, 5/8" X 8'	EA	8
	1	PHOTOELECTRIC CELL	EA	2
	1	ROADWAY LIGHT ON TRAFFIC SIGNAL POLE (250W) LED EQ	EA	2
	1	SIGN, R10-14T, 30"X30", "LEFT TURN YIELD ON FLASHING YELLOW ARROW"	EA	1
	1	SIGN, STREETNAME (VARIES X 18")	EA	3
0682-6001		VEH SIG SEC (12")LED(GRN)	EA	4
0682-6002		VEH SIG SEC (12")LED(GRN ARW)	EA	3
0682-6003		VEH SIG SEC (12")LED(YEL)	EA	4
0682-6004		VEH SIG SEC (12")LED(YEL ARW)	EA	4
0682-6005		VEH SIG SEC (12")LED(RED)	EA	6
0682-6006		VEH SIG SEC (12")LED(RED ARW)	EA	1
0682-6018		PED SIG SEC (LED)(COUNTDOWN)	EA	2
0682-6023		BACK PLATE (12")X3 SEC)	EA	4
0682-6024		BACK PLATE (12")X4 SEC)	EA	1
0684-6010		TRF SIG CBL (TY A)(12 AWG)(5 CONDR)	LF	824
0684-6012		TRF SIG CBL (TY A)(12 AWG)(7 CONDR)	LF	229
0684-6080		TRF SIG CBL (TY C)(14 AWG)(2 CONDR)	LF	2224
0686-6019		INS TRF SIG PL AM (S)STR(TY D)	EA	2
0686-6020		INS TRF SIG PL AM (S)STR(TY D)LUM	EA	2
0687-6001		PED POLE ASSEMBLY	EA	2
0688-6001		PED DETECT PUSH BUTTON (APS)	EA	2
0688-6004		VEH LP DETECT (SAWCUT)	LF	1230
	2	1/C#14 LOOP WIRE	LF	2700
1000-6001		OPTICOM SYSTEM	EA	1
	3	OPTICOM PREEMPTION DETECTOR CABLE	LF	70
	3	OPTICOM PREEMPTION DETECTOR W/5' EXTENSION ARM	EA	1
	3	OPTICOM PREEMPTION EMITTER	EA	1
	3	OPTICOM PREEMPTION PHASE SELECTOR	EA	1

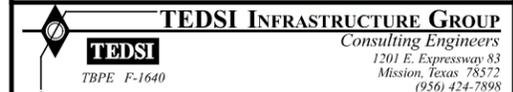
- ITEM WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 680
- ITEM WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 688
- ITEM WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 1000

SUMMARY OF QUANTITIES - ALTERNATE BID 1

ITEM CODE	NOTES	DESCRIPTION	UNIT	TOTAL QTY
0531-6001		CONC SIDEWALKS (4")	SY	18
0531-6018	4	CURB RAMPS (TY 1)	SY	1
0531-6010	4	CURB RAMPS (TY 7)	EA	1
0644-6001	5	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	3

- REMOVAL OF EXISTING CURB FOR INSTALLATION OF PROP RAMPS WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 531
- APPLICABLE TO SIGNAL AHEAD SIGNS

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TRENTON RD AT PROFESSIONAL DR

SUMMARY OF QUANTITIES

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
		08
STATE	DIST.	COUNTY
TEXAS	PHR	HIDALGO
CONT.	SECT.	JOB
		HIGHWAY NO.

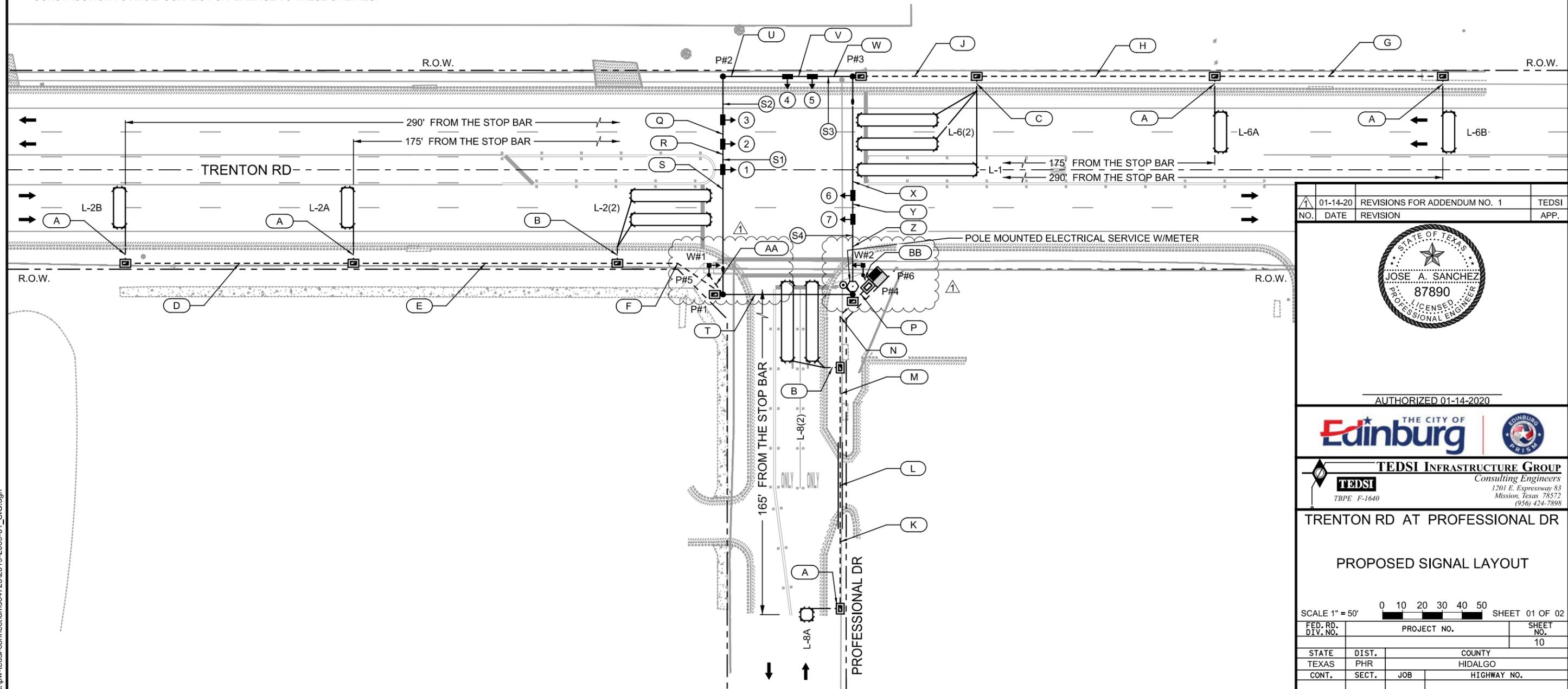
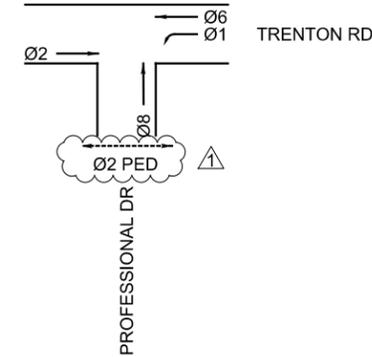
NOTES:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL A TS2 NEMA CONTROLLER, W/CABINET, TRAFFIC SIGNAL POLES, SIGNAL HEADS, SIGNAL CABLE, LUMINAIRE ARMS, SPAN WIRE, OPTICOM, GROUND BOXES, CONDUIT RUNS, LOOP DETECTORS/WIRE AND PEDESTRIAN HEADS/POLES AS SHOWN.
2. THE LOCATION FOR THE CONTROLLER, TRAFFIC SIGNAL POLES AND CONDUIT RUNS IS APPROXIMATE. THE EXACT LOCATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER IN COORDINATION WITH THE CITY OF EDINBURG PUBLIC WORKS DEPARTMENT.
3. ALL SIGNAL CABLE SHALL BE #12 AWG AND IMSA APPROVED. ELECTRICAL SERVICE WIRE SHALL BE #6 AWG XHHW. 2/C LOOP LEAD-IN CABLE SHALL BE #14 AWG SHIELDED. LOOP WIRES IN PAVEMENT SHALL BE #14 AWG XHHW. LUMINAIRE WIRE SHALL BE TRAY CABLE.
4. THE OPEN TRENCH METHOD FOR PLACING CONDUIT UNDER PAVEMENT WILL NOT BE ALLOWED.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW LED LENSES FOR ALL SIGNAL HEADS.
6. THE CONTRACTOR SHALL REFER TO THE SIGNING AND PAVEMENT MARKING LAYOUTS FOR EXACT LOCATION OF PROPOSED PAVEMENT MARKINGS.
7. CONDUCTOR QUANTITIES INCLUDE HORIZONTAL/VERTICAL MEASUREMENTS FOR SPAN WIRE, SIGNAL POLES, SIGNAL HEADS, LUMINAIRE, OPTICOM, ELECTRICAL SERVICE, GROUND BOXES, CABINET AND PEDESTRIAN POLES.
8. THE CONTRACTOR SHALL VERIFY WITH THE UTILITY COMPANIES THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION TO AVOID CONFLICT OR DAMAGE TO THESE UTILITIES.

LEGEND

- STRAIN POLE
- SPAN WIRE
- ⊠ HORIZONTAL SIGNAL HEAD
- ⊠ PEDESTRIAN SIGNAL HEAD W/APRS
- OPTICOM
- GROUND MOUNTED CONTROLLER CABINET
- ⊠ POLE MOUNTED ELECTRICAL SERVICE W/METER
- GROUND BOX (TYPE A) W/APRON
- GROUND BOX (TYPE C) W/APRON
- ▭ LOOP DETECTOR
- - - CONDUIT (TRENCH)
- ▬ CONDUIT (BORE)
- LUMINAIRE
- WIRE RUN DESIGNATION
- DIRECTION OF TRAFFIC FLOW

PHASING DIAGRAM



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AUTHORIZED 01-14-2020



TEDSI INFRASTRUCTURE GROUP
 Consulting Engineers
 1201 E. Expressway 83
 Mission, Texas 78572
 (956) 424-7898

TRENTON RD AT PROFESSIONAL DR

PROPOSED SIGNAL LAYOUT

SCALE 1" = 50' 0 10 20 30 40 50 SHEET 01 OF 02

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
STATE	DIST.	COUNTY
TEXAS	PHR	HIDALGO
CONT.	SECT.	JOB
		HIGHWAY NO.

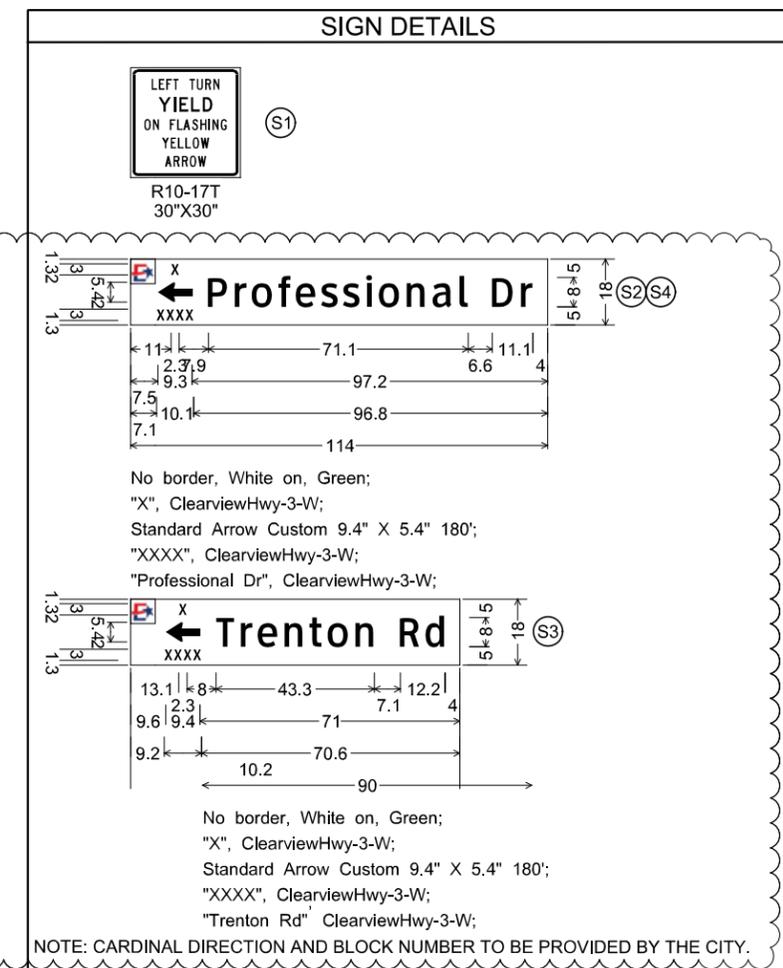
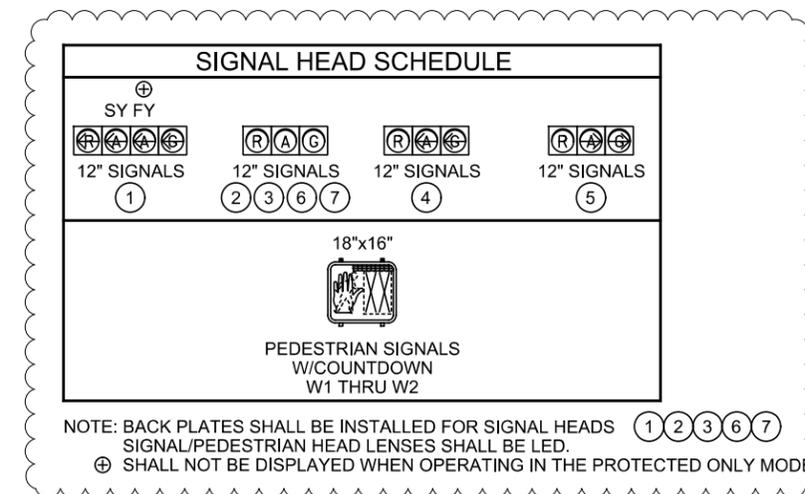
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ITEM	TOTAL QTY	RUN NUMBER RUN LENGTH	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB
			12'	12'	12'	120'	140'	65'	120'	125'	65'	50'	50'	50'	30'	20'	14'	15'	73'	74'	38'	14'	24'	69'	14'	44'	15'	15'
POWER	★ 106'	1/C - #6 INSULATED															2											
LUMINAIRE	★ 305'	4/C - #12 TRAY CBL																		1				1	1	1		
ILSN		4/C - #12 TRAY CBL																										
GROUND	★ 44' ★ 66'	1/C - #6 BARE 1/C - #8 BARE															1 1										1	1
PEDESTRIAN HEADS	★ 167'	2/C - #12 4/C - #12 5/C - #12																									1	1
SIGNAL HEADS	★ 657' ★ 229'	5/C - #12 7/C - #12															3 1	1	1	1	1		1	1	1	2	2	
VIVDS		COAXIAL CBL 3/C - #18																										
LOOPS	★ 216' ★ 2224'	1/C - #14 LOOP WIRE 2/C - #14 SHIELDED	2	4	6		1	1	2	1	1	3	1	1	1	2	7				2			3	3	3		
OPTICOM	★ 70'	OPTICOM CABLE																										
CCTV CAMERA		ETHERNET CBL POWER CBL																										
CONDUIT	★ 60' ★ 888' ★ 50' ★ 69'	1" PVC 2" PVC 3" PVC BORE 4" PVC 4" PVC BORE	1	1	1		1	1	1	1	1	1	1	1	1	1											1	1

★ INCLUDES QUANTITY ON SIGNAL POLES, PEDESTAL POLES, LUMINAIRE ARM AND SPAN WIRE/GROUND BOXES/CABINET COILED QUANTITIES

LOOP DETECTOR SCHEDULE						
LOOP	SIZE	SAW CUT	WIRE LENGTH	AMP NO.	SETTING	FUNCTION
L-1	6' X 60'	180'	360'	1	PRESENCE	CALL AND EXTEND PH 1
L-2(2)	6' X 40'	240'	480'	2	PRESENCE	CALL AND EXTEND PH 2
L-2A	6' X 20'	70'	140'	9	PRESENCE	CALL AND EXTEND PH 2
L-2B	6' X 20'	70'	140'	9	PRESENCE	CALL AND EXTEND PH 2
L-6(2)	6' X 40'	260'	520'	6	PRESENCE	CALL AND EXTEND PH 6
L-6A	6' X 20'	70'	140'	11	PRESENCE	CALL AND EXTEND PH 6
L-6B	6' X 20'	70'	140'	11	PRESENCE	CALL AND EXTEND PH 6
L-8(2)	6' X 40'	230'	460'	8	PRESENCE	CALL AND EXTEND PH 8
L-8A	6' X 6'	40'	104'	12	PRESENCE	CALL AND EXTEND PH 8
TOTAL		1230'	2484'			

TRAFFIC SIGNAL POLE SCHEDULE			
POLE NO.	SIGNAL POLE DESIGNATION	MAST ARM DESIGN	FOUNDATION TYPE/DEPTH
1	SPL 34 D - 100	N/A	36"-B / 16'
2	SP 34 D - 100	N/A	36"-B / 16'
3	SPL 34 D - 100	N/A	36"-B / 16'
4	SP 34 D - 100	N/A	36"-B / 16'
5	PEDESTAL POLE	N/A	24"-A / 6'
6	PEDESTAL POLE	N/A	24"-A / 6'



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TRENTON RD AT PROFESSIONAL DR

PROPOSED SIGNAL LAYOUT

SHEET 02 OF 02

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
STATE	DIST.	COUNTY
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CONT.	SECT.	JOB
		HIGHWAY NO.