

CHANGE ORDER

Distribution:

- ☒ FBC Engineering
- ☒ FBC Judge
- ☒ FBC Purchasing
- ☒ Contractor
- ☒ Consultant

FORT BEND COUNTY ENGINEERING

P. O. Box 1449
1124 Blume Rd.
Rosenberg, Texas 77471
Phone: 281-633-7510
Fax: 281-342-7366
Web site: www.co.fort-bend.tx.us

PROJECT: Traffic Signalization Project:
(name, address): Fry Rd @ Village Center.

CHANGE ORDER NUMBER: 01
DATE: 03/22/13
PROJECT NUMBER: 13-011
CONTRACT FOR: \$ 151,590.00
CONTRACT DATE: 11/20/12
FBC PURCHASE ORDER NO. 97109

CONTRACTOR: Reliable Signal & Lighting Sol.
(name, address): 2617 Lazy Bend
Pearland, Texas 77581

The contract is changed as follows: Overruns for items 618-2052, 644-xxxx, 104-2036, 531-2010 & 531-2019.

Not valid until signed by Fort Bend County and Contractor.

The Original (Contract Sum)	\$ 151,590.00
Net change by previously authorized Change orders	\$ 0.00
The (Contract Sum) Prior to this Change Order was	\$ 151,590.00
The (Contract Sum) will be (increased) (decreased) (unchanged) by this Change Order in the amount of	\$ 11,370.00
The new (Contract Sum) including this Change Order will be	\$ 162,960.00

The Contract Time will be **(increased)** (decreased)(unchanged) by **30** days

The Date of Substantial Completion as of this Change Order therefore is **(changed)** (unchanged)
to **4/30/2013**

Authorized:

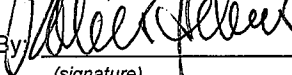
Fort Bend County Engineering
Louis E. Hood, P.E.
P. O. Box 1449
Rosenberg, Texas 77471

By: 
(signature)
DATE: 4/8/2013

CONTRACTOR
Reliable Signal & Lighting Sol.
2617 Lazy Bend
Pearland, Texas 77581

By: 
(signature)
DATE: 3/22/13

Fort Bend County Judge
Honorable Robert E. Hebert
301 Jackson St., #719
Richmond, Texas 77469

By: 
(signature)
DATE: 4-23-2013

RELIABLE SIGNAL & LIGHTING SOLUTIONS

QUOTATION

JOB 13-011 Fry Road @ Village Center

DATE 04/03/13

[illegible]



Reliable Signal
& Lighting Solutions, LLC

REQUEST FOR INFORMATION

PROJECT: Fry Road at Center Village Drive

RFI: 001

TO: Fort Bend County
4520 Reading Road
Rosenberg, Tx, 77471

DATE: November 27, 2012

ATTENTION: Nathan Hatcher

SUBJECT: Bid Item Discrepancy

DRAWING: Sheets 3, 7, & 8

Drawing sheet 8 "Legend for Plan Layout" is calling to install 3"-RMC (Runs #5 & #6); however there is not bid item for 3"-RMC.

Drawing sheet 3 "Summary of Traffic Signal Quantities" is calling to install under item #618-2056 CONDT (RM) (3") 50 LF

Can Fort Bend County review this discrepancy and approve the attached cost breakdown to install 50'-3" RMC?

This is just estimated measurement base on plan sheets; final number will be measure once items are installed.

This information is required by 12/4/2012 in order to avoid delaying our crew and impacting our planned schedule which may result in additional cost.

SIGNED: _____

Henry Valencia
Asst. Project Manager

Response: Please install 2" RMC instead of 3" RMC for conduit runs 5 & 6. See revised attached plan sheet 8
documenting these changes.

ITEM NO.	DESC	DESCRIPTION	UNITS	QUANTITY	
				ESTIMATE	FINAL
104	2001	REMOVING CONC (PAV)	SY	50	
104	2036	REMOVING CONC (SIDEWALK OR RAMP)	SY	42	
110	2001	EXCAVATION (ROADWAY)	CY	100	
160	2004	FURNISHING AND PLACING TOPSOIL (6")	SY	10	
162	2002	BLOCK SOD	SY	10	
276	2256	CEM TRT (PT MSL) (CL M) (TY A) (GR 4) (8")	SY	150	
360	2026	CONC PAV (JOINT REIN) (10")	SY	150	
416	2032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	56.8	
500	2001	VEGETIZATION	LS	1	
502	XXXX	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1	
529	2006	CONC CURB (NORM) (TY II)	LF	130	
531	2010	CURB RAMPS (TY 7)	EA	8	
531	2019	CONC SIDEWALKS (4.5")	SY	28	
618	2034	CONOT (PVC) (SCHD 80) (2")	LF	95	
618	2035	CONOT (PVC) (SCHD 80) (2") (BORE)	LF	445	
618	2038	CONOT (PVC) (SCHD 80) (3")	LF	85	
618	2039	CONOT (PVC) (SCHD 80) (3") (BORE)	LF	335	
618	2052	CONOT (R4) (2")	LF	100	
618	2056	CONOT (R4) (3")	LF	90	
620	2007	ELEC CONOR (NO. 4) BARE	LF	175	
620	2008	ELEC CONOR (NO. 4) INSULATED	LF	350	
620	2009	ELEC CONOR (NO. 6) BARE	LF	620	
621	2004	4C #12 AWG TRAY CABLE	LF	550	
624	2004	GROUND BOX (TYPE 2) (24X36X30) W/H/FRON	EA	1	
624	2014	GROUND BOX (TYPE D) (16X22X24) W/H/FRON	EA	3	
628	2101	ELE SHV TY D 120/240 07D (NS) SE (3) SP (U)	EA	1	
644	XXXX	ROADWAY SIGN AND POLE (FORT BEND COUNTY STANDARDS)	EA	1	
		SIGNAL AHEAD (57M) SIGN (36" X 36") (W3-3)	EA	8	
644	2060	REMOVE SM RD SN SUP & AM	EA	2	
666	2003	REFL PAY MKR TY 1 (W) (4") (BRK) (100 ML)	LF	450	
666	2012	REFL PAY MKR TY 1 (W) (4") (SLD) (100 ML)	LF	160	
666	2036	REFL PAY MKR TY 1 (W) (6") (SLD) (100 ML)	LF	170	
666	2042	REFL PAY MKR TY 1 (W) (12") (SLD) (100 ML)	LF	555	
666	2048	REFL PAY MKR TY 1 (W) (24") (SLD) (100 ML)	LF	120	
666	2054	REFL PAY MKR TY 1 (W) (ARROW) (100 ML)	EA	2	
666	2096	REFL PAY MKR TY 1 (W) (NOROD) (100 ML)	EA	2	
666	2188	REFL PAY MKR TY 1 (W) (MED NOSE)	EA	4	
666	2189	PAYMENT SEALER 4"	LF	610	
666	2191	PAYMENT SEALER 6"	LF	170	
666	2193	PAYMENT SEALER 12"	LF	653	
666	2195	PAYMENT SEALER 24"	LF	120	
666	2199	PAYMENT SEALER (ARROW)	EA	2	
666	2195	PAYMENT SEALER (NOROD)	EA	2	
672	2017	REFL PAY MKR TY II-C-R	EA	82	
677	2001	ELW EXT PAV MKR & MKR (4")	LF	400	

ITEM NO.	DESC	DESCRIPTION	UNITS	QUANTITY	
				ESTIMATE	FINAL
678	2001	PAV SURF PREP FOR MKR (4")	LF	610	
678	2003	PAV SURF PREP FOR MKR (8")	LF	170	
678	2004	PAV SURF PREP FOR MKR (12")	LF	655	
678	2006	PAV SURF PREP FOR MKR (24")	LF	120	
678	2007	PAV SURF PREP FOR MKR (ARROW)	EA	2	
678	2012	PAV SURF PREP FOR MKR (MED NOSE)	EA	4	
678	2016	PAV SURF PREP FOR MKR (NOROD)	EA	2	
680	2002	INSTALL HWY TRF SIG (ISOLATED) (SUPPLIED BY FORT BEND COUNTY)	EA	1	
		NACTEC VS-2 CONTROLLER, FULL ACTUATED IN GROUND MOUNTED CABINET	EA	1	
		CONTROL (PHOTOELECTRIC)	EA	1	
		5/8" X 10" COPPER GROUND ROD (CONTROLLED ONLY)	EA	1	
		PORT LIGHT ON TRAFFIC SIGNAL POLE (250 WATT)	EA	2	
		HAST AND 8 LUMINAIRE	EA	2	
		CONTROLLER FOUNDATION	EA	1	
		"TY RD" STREET NAME SIGN (42"x16")	EA	2	
		"Center Village DR" STREET NAME SIGN (102"x18")	EA	2	
		"LEFT TURN SIGNAL" SIGN (48"x12") (R10-102 WOOD)	EA	2	
		"PEDESTRIAN" (9" x 12") (R10-36)	EA	2	
		"PEDESTRIAN" (9" x 12") (R10-36)	EA	6	
		"PEDESTRIAN" (9" x 12") (R10-36)	EA	6	
		DETECTOR CARD RACK (6 SLOT)	EA	1	
		POWER SUPPLY	EA	1	
		GPS CLOCK	EA	1	
682	2001	BACK PLATE (12 IN) (3 SEC)	EA	8	
682	2002	BACK PLATE (12 IN) (4 SEC)	EA	2	
682	2014	PEL SIG SEC (12 IN) LED (2 INDICATIONS)	EA	8	
682	2022	VEL SIG SEC (12 IN) LED (2 INDICATIONS)	EA	2	
682	2023	VEL SIG SEC (12 IN) LED (2 INDICATIONS)	EA	2	
682	2024	VEL SIG SEC (12 IN) LED (2 INDICATIONS)	EA	2	
682	2025	VEL SIG SEC (12 IN) LED (2 INDICATIONS)	EA	2	
682	2026	VEL SIG SEC (12 IN) LED (2 INDICATIONS)	EA	2	
682	2027	VEL SIG SEC (12 IN) LED (2 INDICATIONS)	EA	2	
684	2007	TRAF SIG CBL (TY A) (12 AWG) (2 CONDS)	LF	1300	
684	2009	TRAF SIG CBL (TY A) (12 AWG) (4 CONDS)	LF	1430	
684	2012	TRAF SIG CBL (TY A) (12 AWG) (7 CONDS)	LF	1445	
686	2031	INS TRF SIG PL AM (3) 1 AM (32)	EA	1	
686	2035	INS TRF SIG PL AM (3) 1 AM (32)	EA	1	
686	2041	INS TRF SIG PL AM (3) 1 AM (40) LUM	EA	1	
686	2045	INS TRF SIG PL AM (3) 1 AM (44) LUM	EA	1	
688	2001	PED DETECT (2 INCH PUSH BTN)	EA	8	
6266	2001	VIVOS PROCESSOR SYSTEM (SUPPLIED BY FORT BEND COUNTY)	EA	1	
		* VIDEO MONITOR	EA	1	
6266	2002	VIVOS CAMERA ASSEMBLY	EA	4	
6266	2003	VIVOS SET-UP SYSTEM	EA	1	
6266	2005	VIVOS COMMUNICATION CABLE (COMMAL)	LF	895	
		* (3/C JRG-WVDS POWER CABLE)	LF	895	
8260	2001	LED COUNT DOWN PEDESTRIAN MODULE	EA	8	
8317	XXXX	BATTERY BACK-UP SYSTEM FOR SIGNAL CABINETS (SUPPLIED BY FORT BEND COUNTY)	EA	1	
		* GENERATOR CONNECTION FOR PORTABLE AC GENERATOR	EA	1	
8835	2001	ACCESSIBLE PEDESTRIAN SIGNAL UNITS	EA	8	

NOTES:
 QUANTITIES ARE FOR CONTRACTORS INFORMATION ONLY.
 CONTRACTOR SHALL VERIFY ALL MATERIALS AND LABOR TO COMPLETE THIS
 SIGNAL SYSTEM AS PER THE PLANS AND SPECIFICATIONS.

* MATERIALS SUBSIDIARY TO PERTINENT ITEMS.

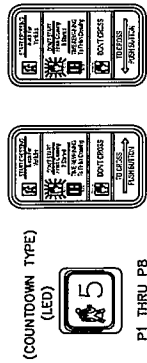
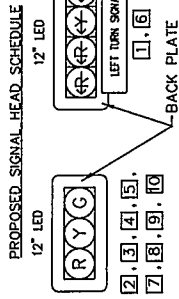


Bradley G. Eaves
 PE MBE P.P.



TRAFFIC ENGINEERS, INC.
 INSURANCE TRANSPORTATION SOLUTIONS
 Registration No. F-3158

FORT BEND COUNTY			
FRY ROAD AT CENTER VILLAGE DRIVE			
SUMMARY OF TRAFFIC SIGNAL QUANTITIES			
EST. NO.	PROJECT NO.	SHEET NO.	DATE
6		3	08/03/2012
TEXAS	HOUSTON	FORT BEND	
CONT.	SECT.	NO.	CR



LEGEND

- 1. RAISED PAVEMENT MARKERS
- 2. PROPOSED CONDUIT
- 3. PROPOSED SIGNAL HEAD W/ NUMBER AND BACKPLATE
- 4. PROPOSED VIVOS CAMERA
- 5. PROPOSED TYPE 'D' GROUND BOX (W/ APRON)
- 6. PROPOSED PEDESTRIAN SIGNAL W/ NUMBER
- 7. PROPOSED PUSH BUTTON/SIGN
- 8. PROPOSED OVERHEAD STREET NAME SIGN
- 9. PROPOSED FULL-ACTUATED CONTROLLER/CABINET, GROUND MOUNTED
- 10. PROPOSED MAST ARM AND POLE
- 11. PROPOSED SERVICE POLE W/METER
- 12. PROPOSED DETECTION ZONE - LOCATION TO BE DETERMINED BY ENGINEER IN THE FIELD
- 13. PROPOSED 19' STEEL STRAIN POLE W/32' MAST ARM (1 EA.), THREE SECTION SIGNAL HEAD (2 EA.), VIVOS CAMERA (1 EA.) AND PEDESTRIAN SIGNAL HEAD (2 EA.), PEDESTRIAN SIGNS (R10-36L) (2 EA.), PUSH BUTTON (2 EA.).
- 14. PROPOSED 30' STEEL STRAIN POLE W/40' MAST ARM (1 EA.), FOUR SECTION SIGNAL HEAD (1 EA.), THREE SECTION SIGNAL HEAD (2 EA.), 8' LUMINAIRE ARM (W/LUMINAIRE) (1 EA.), PEDESTRIAN SIGNAL HEAD (2 EA.), PUSH BUTTON (2 EA.), PEDESTRIAN SIGNS (R10-36L) (2 EA.), AND VIVOS CAMERA (1 EA.).
- 15. PROPOSED 19' STEEL STRAIN POLE W/36' MAST ARM (1 EA.), THREE SECTION SIGNAL HEAD (2 EA.), PEDESTRIAN SIGNAL HEADS (2 EA.), PUSH BUTTONS (2 EA.), PEDESTRIAN SIGN (R10-36R) (2 EA.), AND VIVOS CAMERA (1 EA.).
- 16. PROPOSED 30' STEEL STRAIN POLE W/44' MAST ARM (1 EA.), FOUR SECTION SIGNAL HEAD (1 EA.), THREE SECTION SIGNAL HEAD (2 EA.), 8' LUMINAIRE ARM (W/LUMINAIRE) (1 EA.), PEDESTRIAN SIGNAL HEAD (2 EA.), PUSH BUTTON (2 EA.), PEDESTRIAN SIGNS (R10-36L) (2 EA.), AND VIVOS CAMERA (1 EA.).
- 17. PROPOSED SERVICE POLE W/METER (120/240 VOLT SERVICE) AND SERVICE ENCLOSURE W/P.E. CONTROL TO CONTAIN (1)-50 AMP BREAKER FOR SIGNALS AND (1)-2 POLE 15 AMP BREAKER FOR LUMINAIRES.

ELECTRICAL CHART

DESCRIPTION	RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PEDESTRIAN PUSH BUTTON	2/C-#12 AWG					2	2	2	2	4	8						
PEDESTRIAN SIGNAL	4/C-#12 AWG					2	2	2	2	4	8						
VEHICLE SIGNAL	7/C-#12 AWG					1	2	1	2	3	6						
VIVOS CABLE	RG-59 COAX					1	2	4									
VIVOS POWER	3/C-#16 AWG					1	2	4									
LUMINAIRE	4/C-#12 TRAY CABLE					1	2	4									
POWER	1/C-#4 XHHW					1	1	1	1	1	1	1	1	1	1	1	1
POWER (GROUND)	1/C-#4 BARE					1	1	1	1	1	1	1	1	1	1	1	1
GROUND (COMMON)	1/C-#6 BARE					1	1	1	1	1	1	1	1	1	1	1	1
CONDUITS	2" PVC (SCHD. 80)					1	1	1	1	1	1	1	1	1	1	1	1
	3" PVC (SCHD. 80)					1	1	1	1	1	1	1	1	1	1	1	1
	2" RM					1	1	1	1	1	1	1	1	1	1	1	1
	3" RM					1	1	1	1	1	1	1	1	1	1	1	1
	4" RM					1	1	1	1	1	1	1	1	1	1	1	1

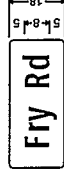
Unless shown elsewhere in the plans, electrical service data for Type D shall be as follows.

ELECTRICAL SERVICE DATA											
	ELECTRICAL SERVICE DESCRIPTION (SEE ED (4))	SERVICE CONDUIT SIZE (RMC)	SERVICE CONDUCTORS NO./SIZE	SAFETY SWITCH AMPS	MAIN DISCONNECT CKT. BRK. POLE/AMP	TWO-POLE CONTACTOR AMPS ***	PANEL BLD./POLE RATING (MIN)	CIRCUIT NO.	BRANCH CKT. BRK. POLE/AMPS	KVA LOAD	
POLE 5	TY D (120/240) (70 INS) (SEE SP (U))	1 1/4"	3/4"	N/A	20/70	30	100	T.S. LIGHTING	15/50 20/75	47.1	

CAMERA CHART

CAMERA NO.	PHASE
C1	WESTBOUND APPROACH
C2	NORTHBOUND APPROACH
C3	EASTBOUND APPROACH
C4	SOUTHBOUND APPROACH

PROPOSED SIGN SCHEDULE



1.5" Radius, 0.5" Border, White on Green;
[Fry Rd] ClearviewHwy-2W;

Table of letter and object heights.

5.9	13.8	10.8	5.9
5.9	13.8	10.8	5.9

S2, S4



1.5" Radius, 0.5" Border, White on Green;
[Center Village Dr] ClearviewHwy-2W;

Table of letter and object heights.

5.1	32.6	34.8	5.1
5.1	32.6	34.8	5.1



1.5" Radius, 0.5" Border, 0.4" Indent,
Black on White (High Reflective Intensity);
[LEFT TURN SIGNAL] B 50' spacing;
Round of letter and object heights.

Table of letter and object heights.

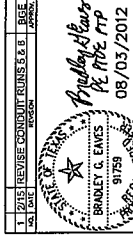
5.9	13.8	10.8	5.9
5.9	13.8	10.8	5.9



02/15/2013

Brody C. Eaves PE #91759

S1, S3



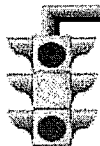
TRAFFIC ENGINEERS, INC.
REGISTERED PROFESSIONAL ENGINEERS
Registration No. F-3158

FORT BEND COUNTY

FRY ROAD AT
CENTER VILLAGE DRIVE

LEGEND FOR PLAN LAYOUT

PROJECT NO.	SHEET NO.	SHEET TOTAL
91759	1	1
STATE	COUNTY	CITY
TEXAS	HOUSTON	FORT BEND
DATE	JOB	CR
02/15/2013		



Reliable Signal
& Lighting Solutions, LLC

REQUEST FOR INFORMATION

PROJECT: Fry Road at Center Village Drive

RFI: 003

TO: Fort Bend County
4520 Reading Road
Rosenberg, Tx, 77471

DATE: February 15, 2013

ATTENTION: Nathan Hatcher

SUBJECT: Quantities Discrepancy

DRAWING: Sheets 7 & 8

After reviewing the bid quantities and the current installation quantities we have found a discrepancy in reference to Bid Item 618-2052 (2" RMC) & Bid Item 620-2009 (1/C #6 Bare)

Attached you will find a breakdown for the items with discrepancy. These are just estimated overruns base on plan sheets; final overrun number will be measured once items are installed

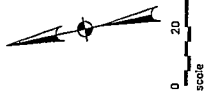
Can Fort Bend County review this discrepancy and approve overrun?

This information is required by 2/22/2013 in order to avoid delaying our crew and impacting our planned schedule which may result in additional cost.

SIGNED: _____

Henry Valencia
Asst. Project Manager

Response: _____



Prody/Healy
P.C. No. 110
09/08/2012

BRADLEY G. EVANS
31729

TRAFFIC ENGINEERS, INC.
10000 WESTHURST DRIVE
HOUSTON, TEXAS 77036
Registration No. F-3158

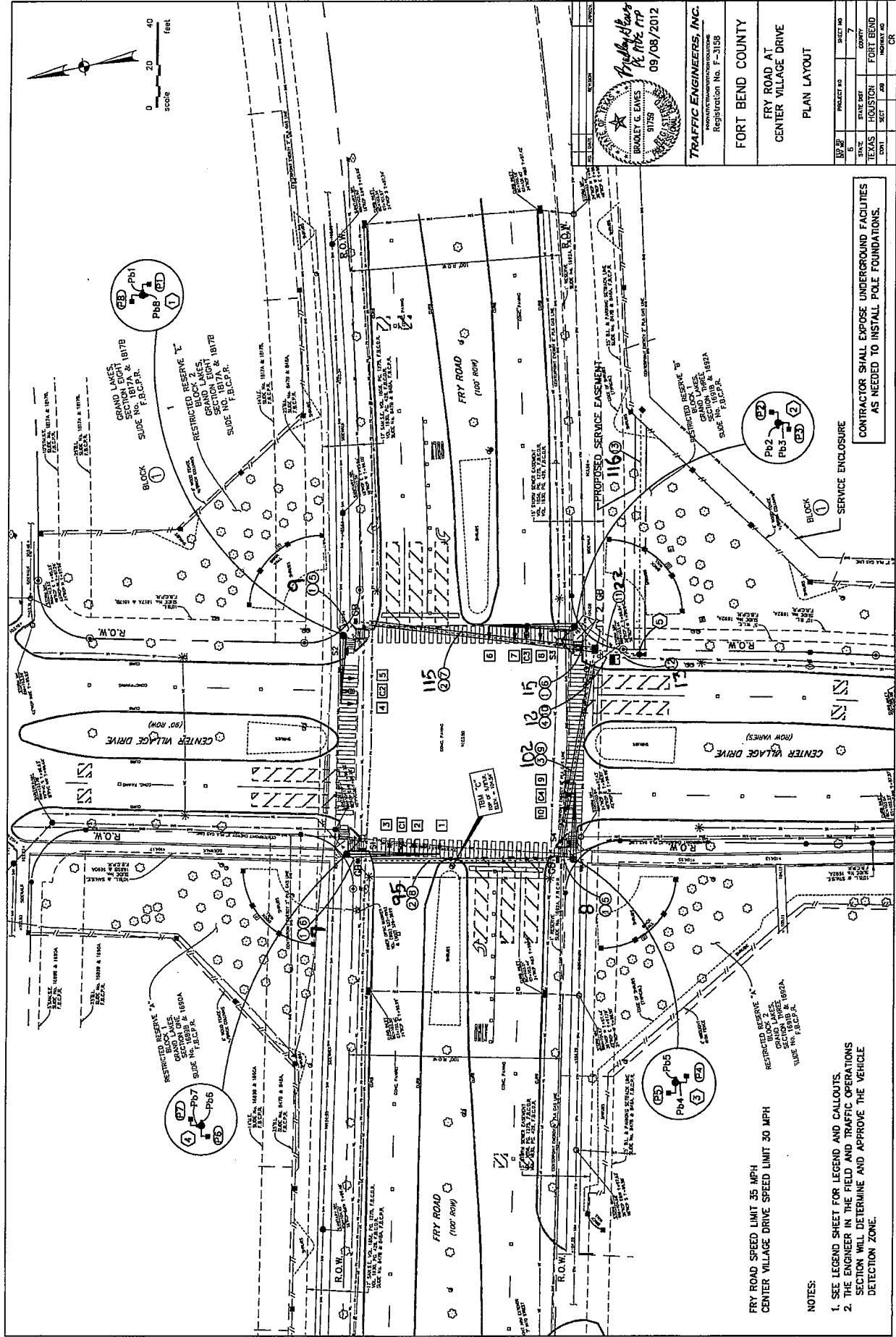
PROJECT NO.		SHEET NO.	
STATE		COUNTY	
CITY		DISTRICT	
SECTION		SHEET	
DATE		DRAWN BY	
CHECKED BY		APPROVED BY	

FORT BEND COUNTY

FRY ROAD AT

CENTER VILLAGE DRIVE

PLAN LAYOUT



CONTRACTOR SHALL EXPOSE UNDERGROUND FACILITIES
AS NEEDED TO INSTALL POLE FOUNDATIONS.

FRY ROAD SPEED LIMIT 35 MPH
CENTER VILLAGE DRIVE SPEED LIMIT 30 MPH

- NOTES:
- SEE LEGEND SHEET FOR LEGEND AND CALLOUTS.
 - THE ENGINEER IN THE FIELD AND TRAFFIC OPERATIONS SECTION WILL DETERMINE AND APPROVE THE VEHICLE DETECTION ZONE.

2" RMC

RUN	# RUNS	LF
1	4	39
5	2	17
6	2	21
11	1	22
12	1	13
13	1	16
		228'

Bid item
618-2052

150'

1 1/2" # 6 Bare (in runs)

RUN	# RUNS	LF
2	2	210
3	1	102
4	1	12
5	2	17
6	2	21
7	1	15
8	1	95
9	1	102
10	1	12
11	1	22
		708'

Bid item
620-2009

620'