

St. Joseph Hospital Area Improvements

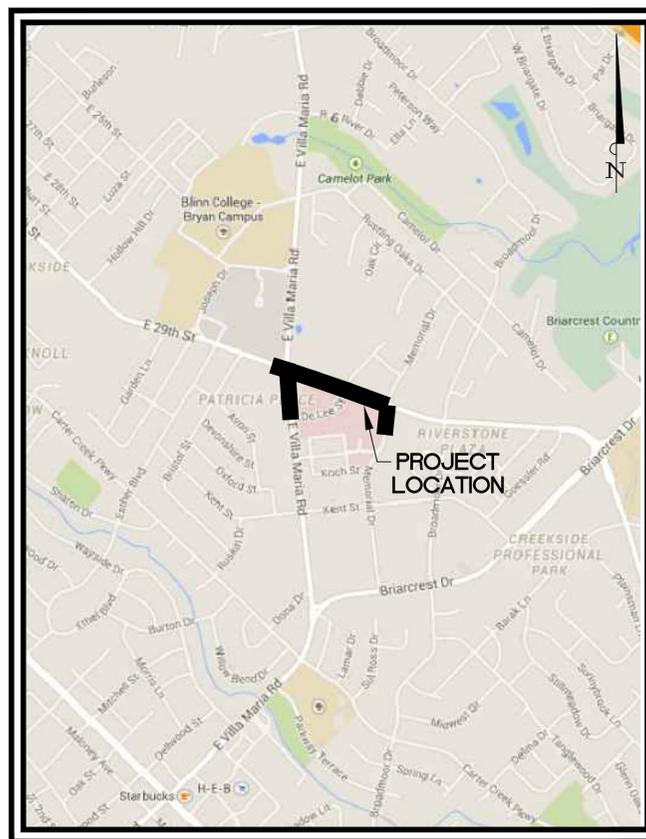
To

**Villa Maria Road, 29th Street,
and Memorial Drive**



CITY OF BRYAN
The Good Life, Texas Style.™

LOCATION MAP:



CITY OF BRYAN
VICINITY MAP
NTS.

CITY OFFICIALS:

MAYOR: Jason Bienski

CITY COUNCIL:
Al Saenz
Rafael Pena III
Greg Owens
Mike Southerland
Ben Hardeman
Buppy Simank

CITY MANAGER: Kean Register

PUBLIC WORKS DIRECTOR: Jayson Barfknecht, PE

CITY ENGINEER: Paul Kaspar, PE

CITY ATTORNEY: Janis Hampton

JUNE 2016

PREPARED FOR:
CITY OF BRYAN
300 SOUTH TEXAS AVE.
BRYAN, TEXAS 77840
Ph. (979) 209-5030
Fax (979) 209-5035

PREPARED BY:
Kimley»Horn
2800 SOUTH TEXAS AVENUE, SUITE 201
BRYAN, TEXAS 77802
TEXAS REGISTERED ENGINEERING FIRM F-928
Tel. No. (979) 775-9595
Fax No. (979) 775-9599

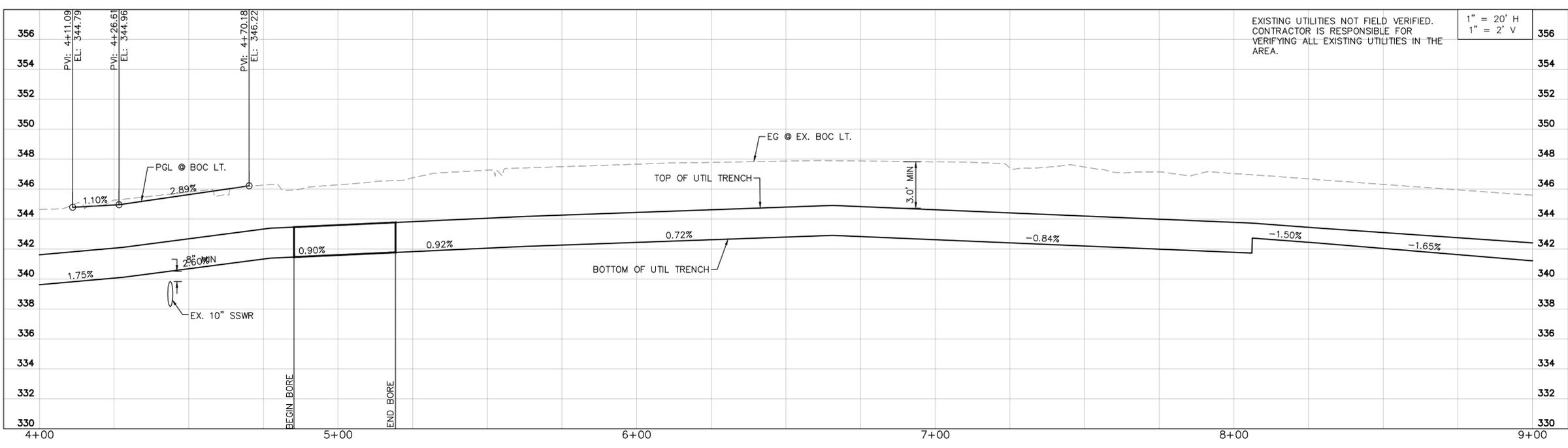
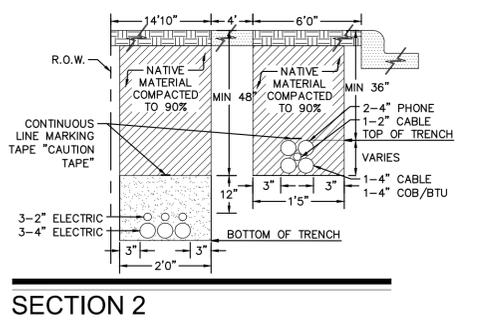
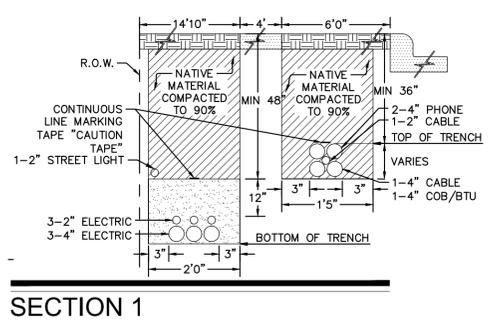
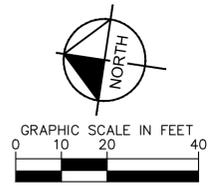
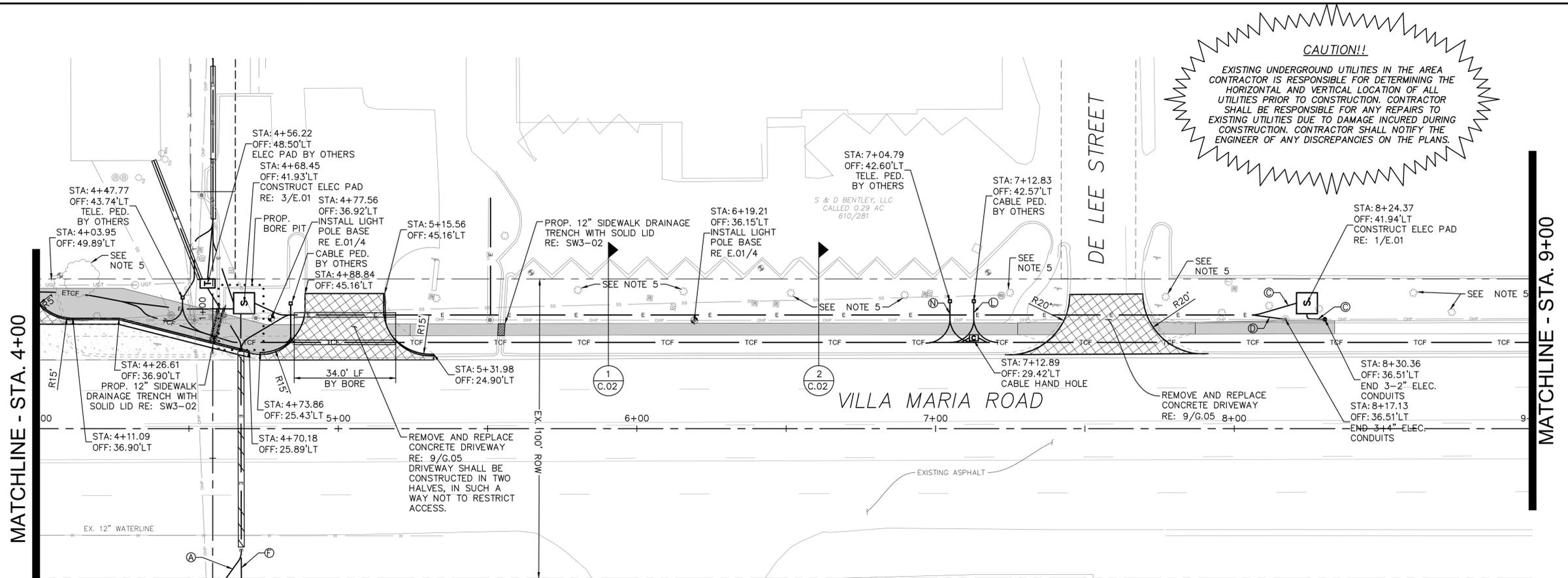
CAUTION!!
EXISTING UNDERGROUND UTILITIES IN THE AREA
CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE
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UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR
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EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING
CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE
ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Know what's below.
Call before you dig.

KHA JOB #: 061271616
CITY OF BRYAN JOB #: 332750-DE-1413

Plotted By: Kover, Aaron Sheet Set: KHA Layout: PAVING VILLA MARIA (4+00 to 9+00) June 21, 2016 03:07:32pm K:\st_civil\061271616-e 29th st DWG\Sheets\C-P&P-Villa Maria.dwg
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EXISTING UTILITIES NOT FIELD VERIFIED.
 CONTRACTOR IS RESPONSIBLE FOR
 VERIFYING ALL EXISTING UTILITIES IN THE
 AREA.

1" = 20' H
 1" = 2' V

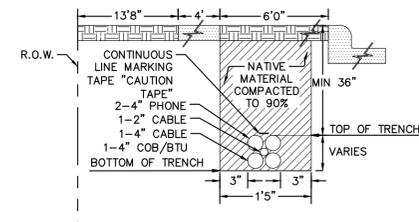
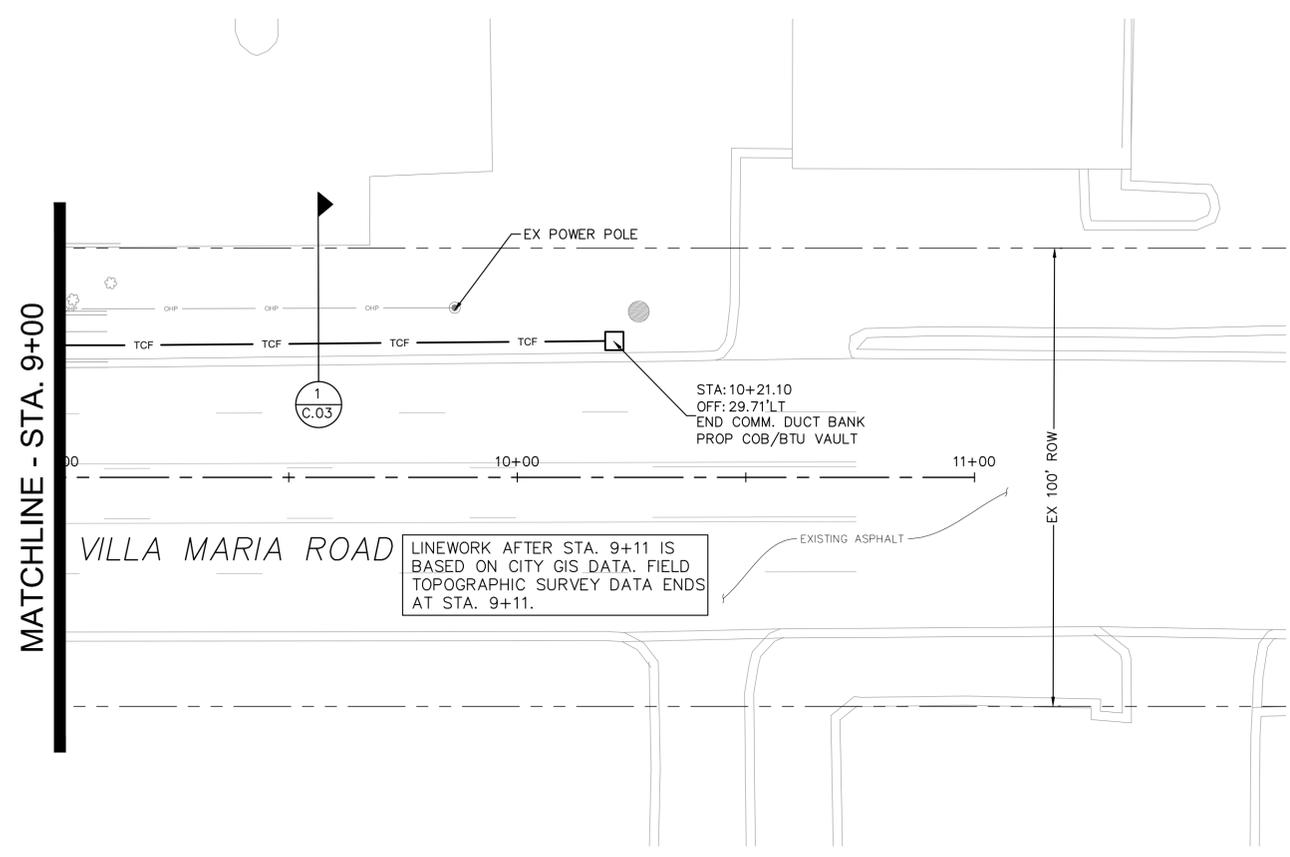
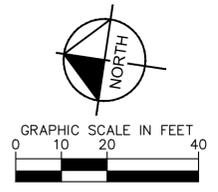
NOTES

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2. CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN THE LIMITS OF CONSTRUCTION. NO SEPARATE PAY.
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4. ALL CONDUIT TERMINATIONS SHALL SWEEP UP AND BE CAPPED 2' ABOVE GRADE.
5. EXISTING TREE TO REMAIN. CONTRACTOR SHALL PROVIDE TREE PROTECTION.

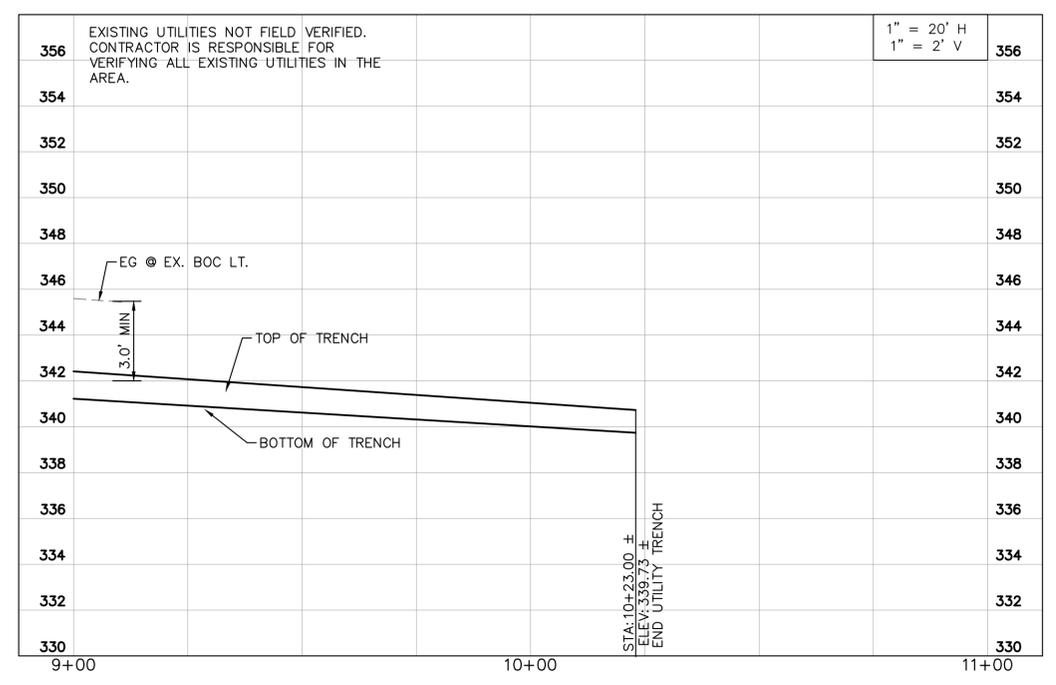
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SHEET NUMBER C.02	KHA PROJECT: 061271616 DATE: JUNE 2016 SCALE: AS SHOWN DESIGNED BY: TWL DRAWN BY: KHA CHECKED BY: JCH
REVISIONS No. DATE BY	No. DATE BY

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SECTION 1

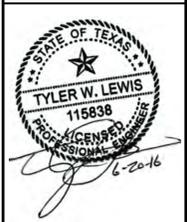


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No.	REVISIONS	DATE	BY

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 REGISTERED PROFESSIONAL ENGINEERING FIRM No. 9226
 2800 SOUTH SHIPLEY AVENUE, SUITE 201
 BRYAN, TX 77802
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 WWW.KIMLEY-HORN.COM



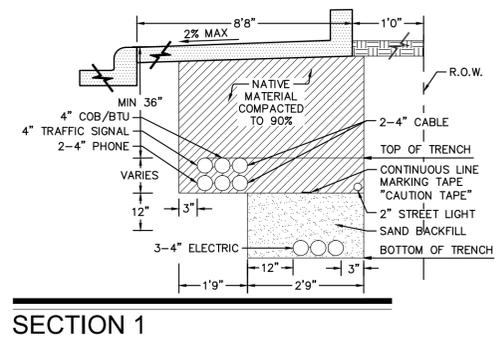
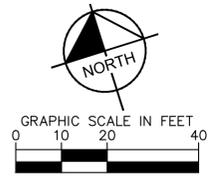
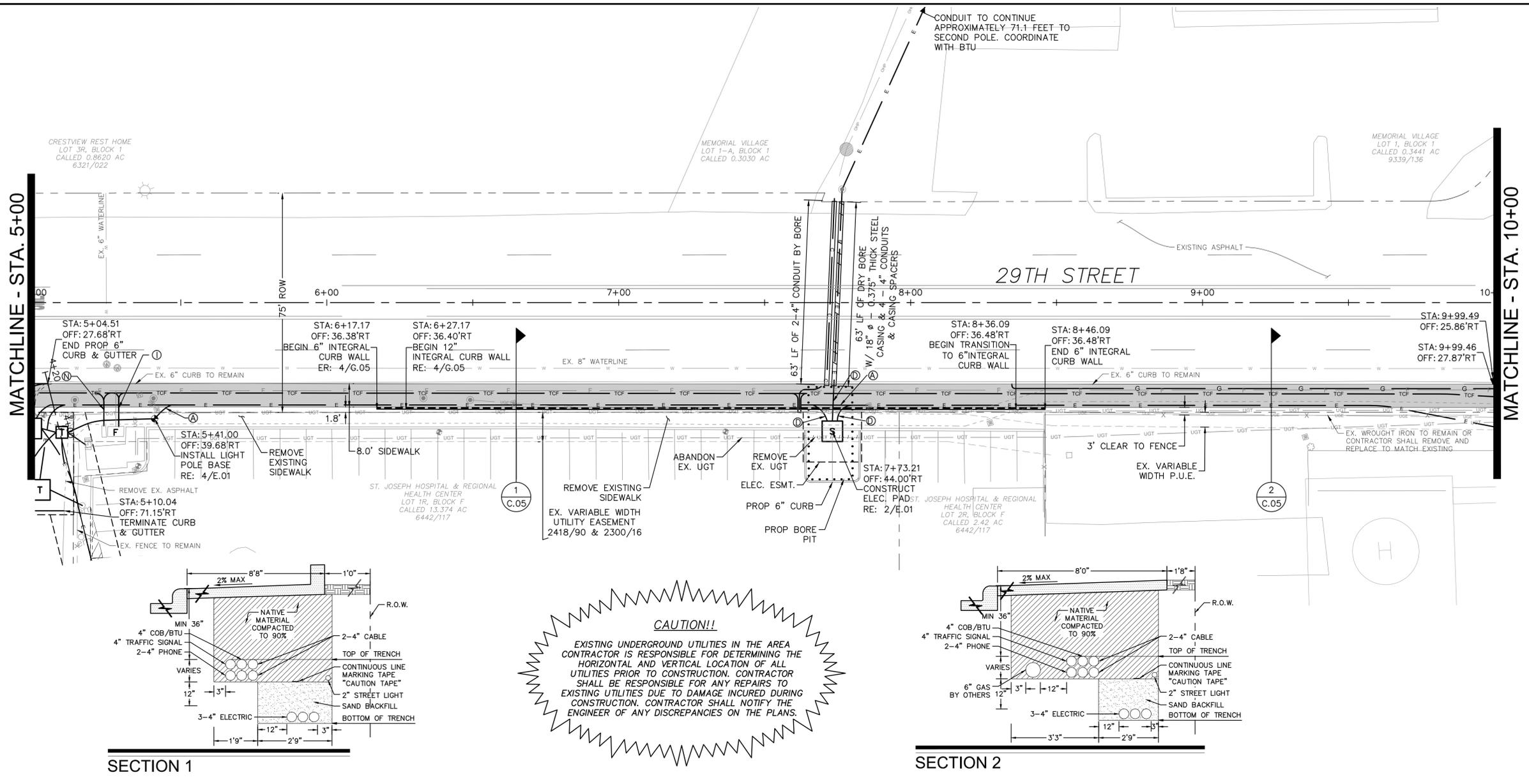
KHA PROJECT	061271616
DATE	JUNE 2016
SCALE	AS SHOWN
DESIGNED BY	TWL
DRAWN BY	KHA
CHECKED BY	JCH

PAVING VILLA MARIA (9+00 to END)

ST. JOSEPH HOSPITAL AREA IMPROVEMENTS PREPARED FOR CITY OF BRYAN TEXAS

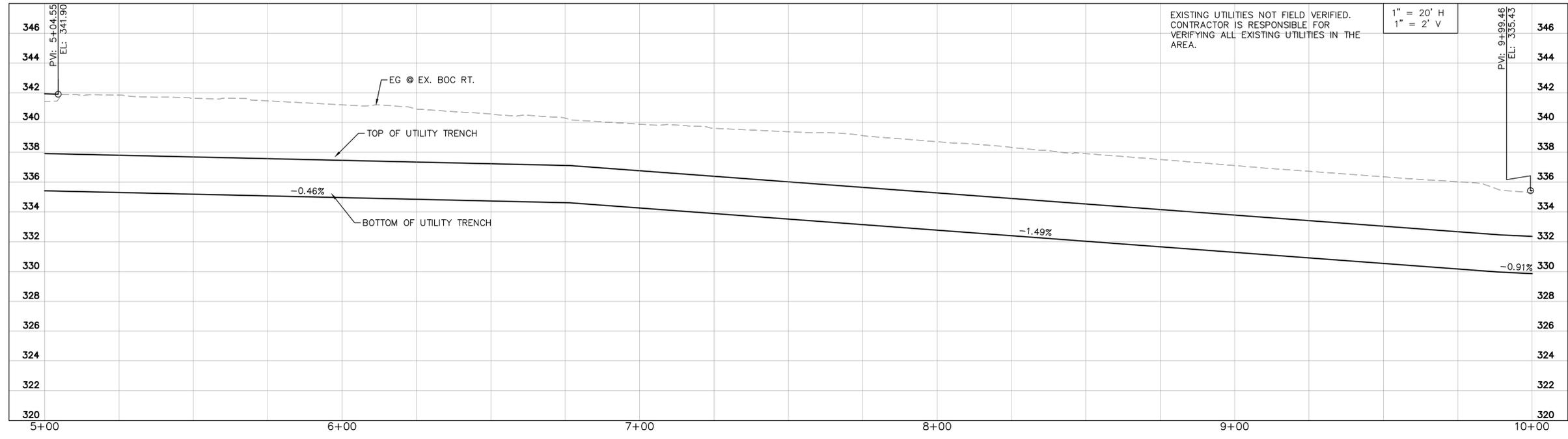
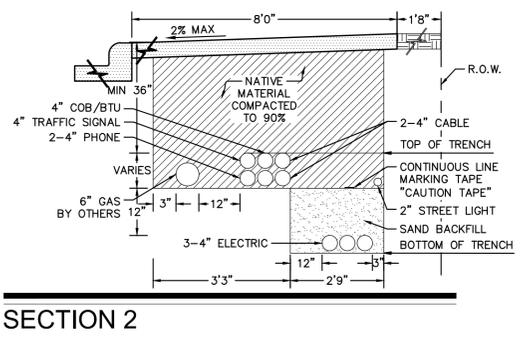
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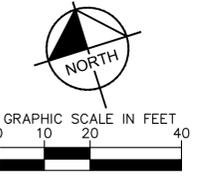
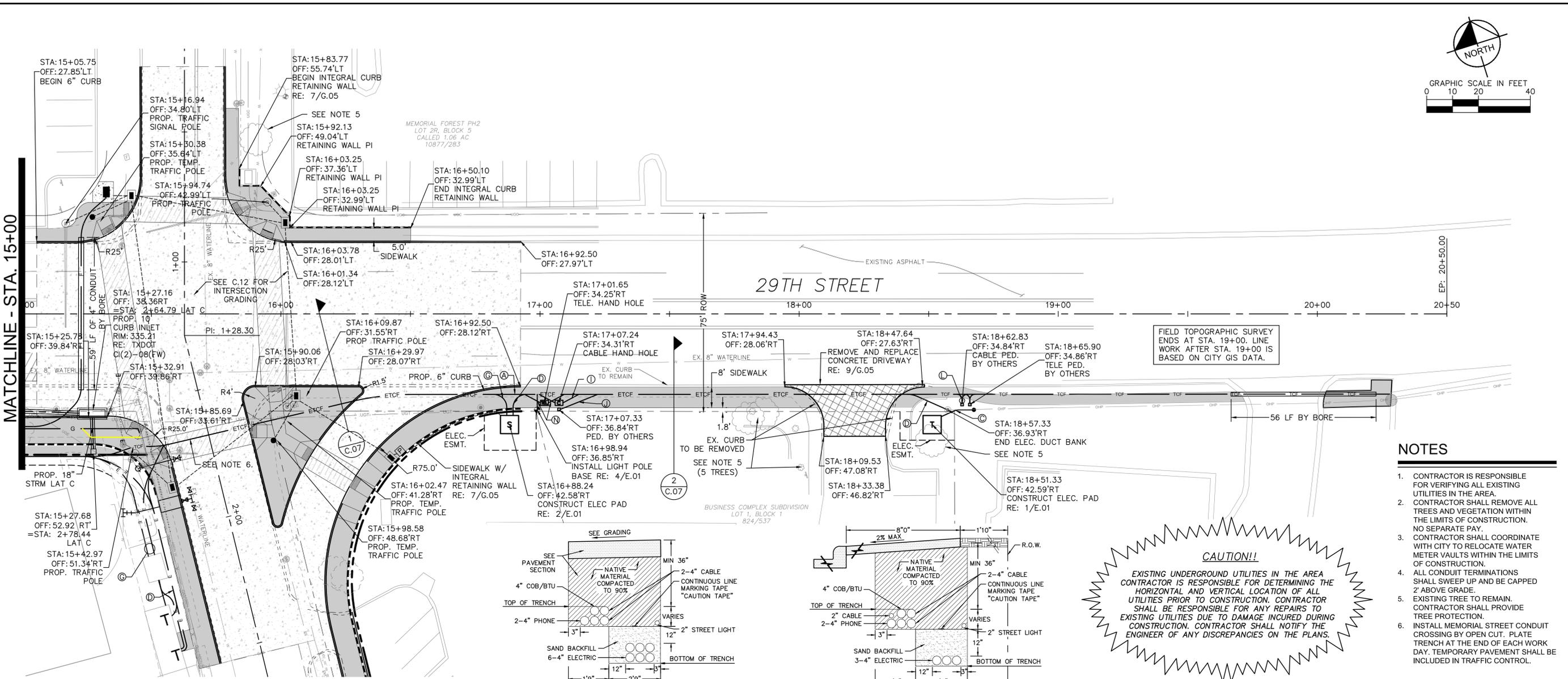
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<h1 style="margin: 0;">Kimley»Horn</h1> <p style="font-size: small; margin: 0;">© 2016 KIMLEY-HORN AND ASSOCIATES, INC. REGISTERED PROFESSIONAL ENGINEERING FIRM F-928 2800 SOUTH BRYAN, TX 77802 SUITE 201 PHONE: 979-775-9695 FAX: 979-775-9599 WWW.KIMLEY-HORN.COM</p>	
<h2 style="margin: 0;">PAVING 29TH STREET (5+00 to 10+00)</h2>	<h2 style="margin: 0;">ST. JOSEPH HOSPITAL AREA IMPROVEMENTS PREPARED FOR CITY OF BRYAN TEXAS</h2>
KHA PROJECT: 061271616 DATE: JUNE 2016 SCALE: AS SHOWN DESIGNED BY: TWL DRAWN BY: KHA CHECKED BY: JCH	SHEET NUMBER <h3 style="margin: 0;">C.05</h3>
No. _____ REVISIONS _____ DATE _____ BY _____	No. _____ REVISIONS _____ DATE _____ BY _____

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SECTION 1

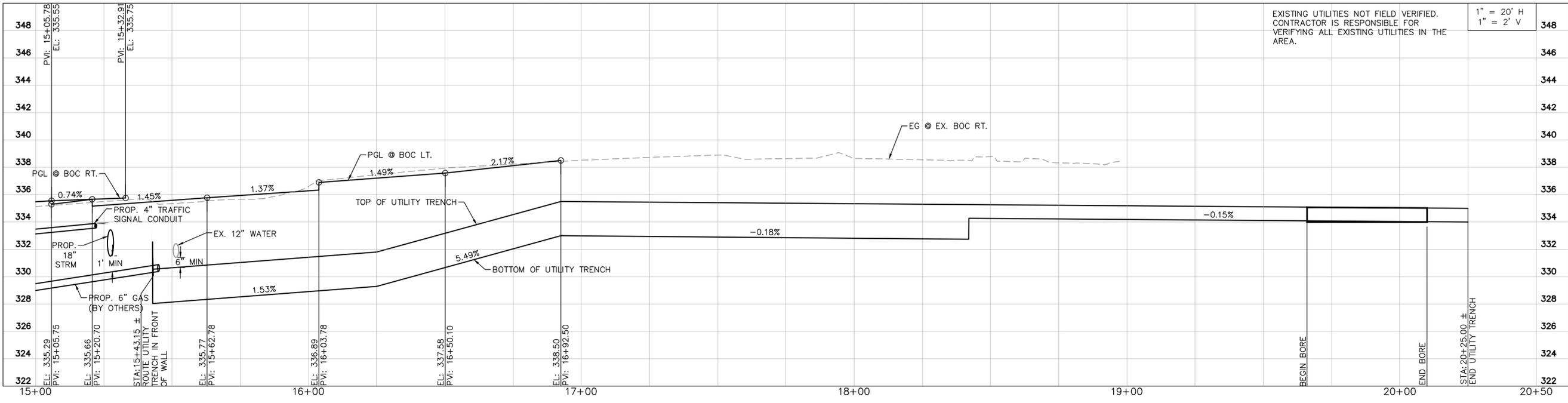
SECTION 2

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5. EXISTING TREE TO REMAIN. CONTRACTOR SHALL PROVIDE TREE PROTECTION.
6. INSTALL MEMORIAL STREET CONDUIT CROSSING BY OPEN CUT. PLATE TRENCH AT THE END OF EACH WORK DAY. TEMPORARY PAVEMENT SHALL BE INCLUDED IN TRAFFIC CONTROL.

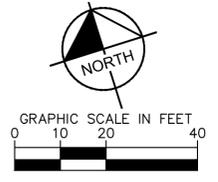
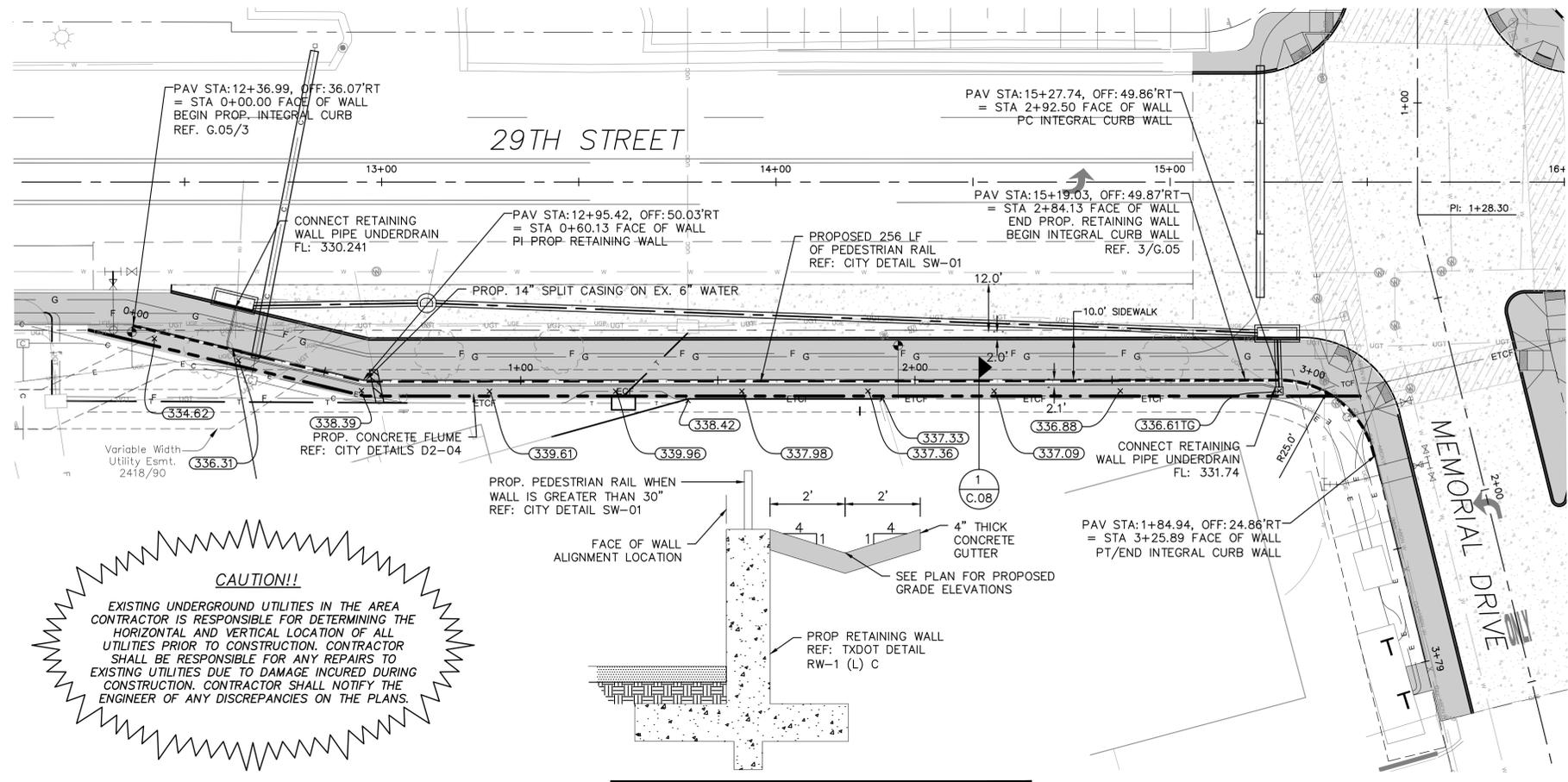


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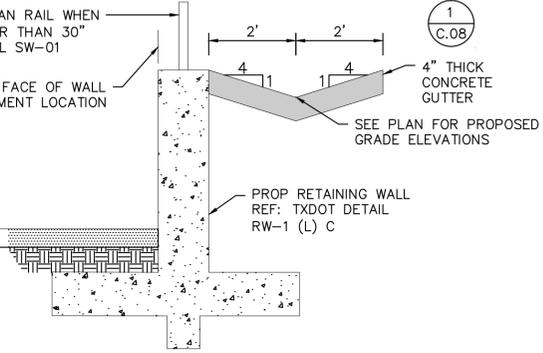
<p>Kimley»Horn</p> <p>2016 KIMLEY-HORN AND ASSOCIATES, INC. REGISTERED PROFESSIONAL ENGINEERING FIRM F-926 2800 SOUTH BRYAN, TX 77802 SUITE 201 PHONE: 979-775-9695 FAX: 979-775-9599 WWW.KIMLEY-HORN.COM</p>	<p>STATE OF TEXAS</p> <p>TYLER W. LEWIS</p> <p>115838</p> <p>Professional Engineer</p> <p>6-20-16</p>
<p>KHA PROJECT: 061271616</p> <p>DATE: JUNE 2016</p> <p>SCALE: AS SHOWN</p> <p>DESIGNED BY: TWL</p> <p>DRAWN BY: KHA</p> <p>CHECKED BY: JCH</p>	<p>PAVING 29TH STREET (15+00 to END)</p>
<p>ST. JOSEPH HOSPITAL AREA IMPROVEMENTS PREPARED FOR CITY OF BRYAN TEXAS</p>	
<p>SHEET NUMBER C.07</p>	

Plotted By: Kover, Aaron Sheet Set: KHA Layout: PAVING 29TH STREET RETAINING WALL June 21, 2016 03:09:53pm K:\est_civil\061271616-e 29th st DWG\Sheets\C-P&P - Retaining Wall.dwg
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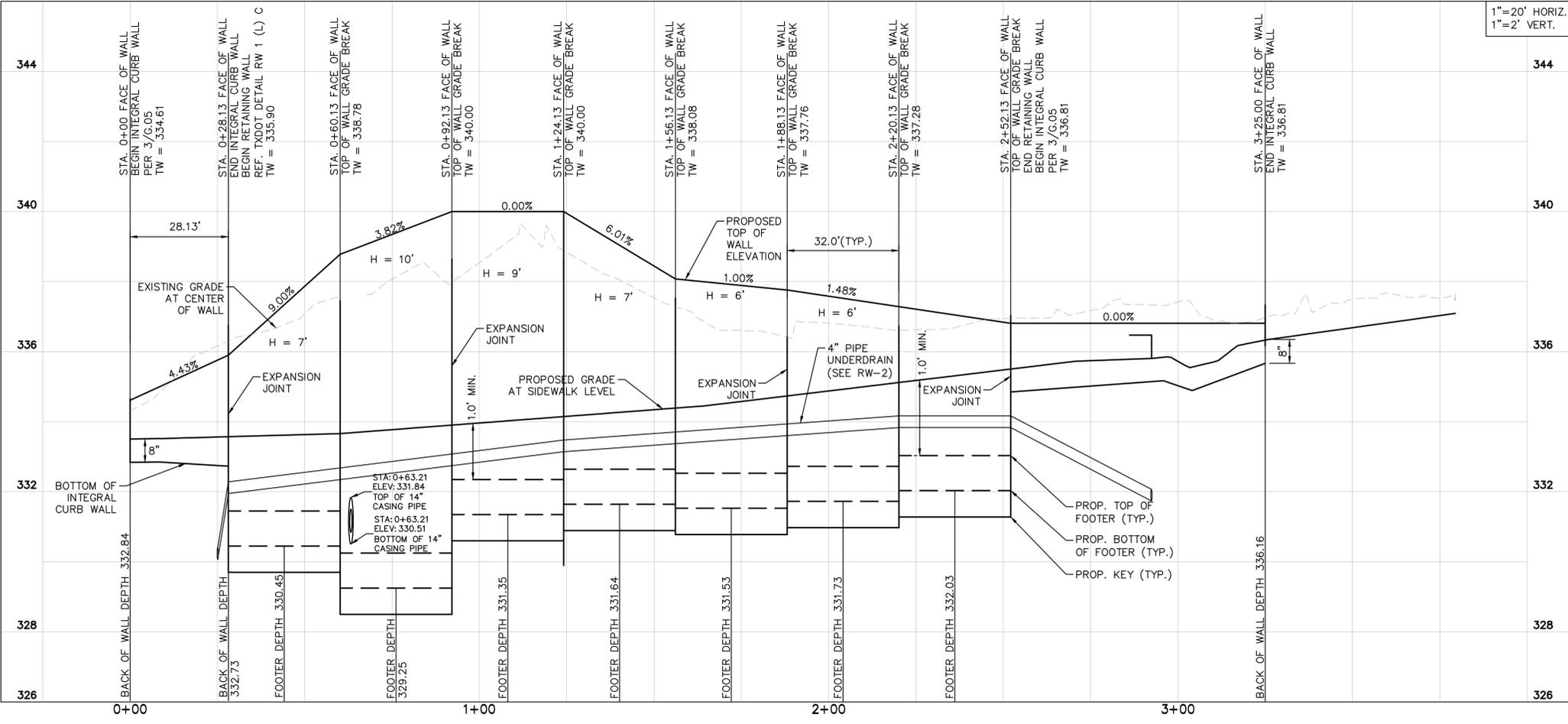


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SECTION 1 (NTS)



NOTES

1. CONTRACTOR TO INSTALL PIPE UNDERDRAIN IN ACCORDANCE WITH TXDOT DETAIL RW2 IN LIEU OF WEEP HOLES.
2. QUANTITIES ARE SQUARE FEET OF WALL FACE MEASURED FROM TOP OF WALL TO TOP OF FOOTER.

FORM LINER AND FINISHING NOTES

1. RETAINING WALL SHALL HAVE A FORM LINER APPLIED TO THE FACE OF THE RETAINING WALL. ALL EXPOSED SURFACES SHALL BE PAINTED.
2. ALL FORM LINERS SHALL BE ELASTOMERIC
3. ALL FORM LINERS SHALL BE APPROVED BY THE CITY AND THE ENGINEER PRIOR TO USE.
4. FORM LINERS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE RETAINING WALL BID ITEM.
5. ALL COLORS AND PAINT FINISHES ARE SUBJECT TO FINAL APPROVAL IN THE FIELD BY THE CITY AND THE ENGINEER.
6. BLAST CLEAN AND PAINT ALL EXPOSED SURFACES WITH CONCRETE PAINT SUCH AS SHERWIN WILLIAMS A-100 EXTERIOR LATEX OR APPROVED EQUAL FOLLOWING MATERIAL AND CONSTRUCTION SPECIFICATIONS IN TXDOT SPECIFICATION 427 - SURFACE FINISHES FOR CONCRETE.
7. APPROVED APPLICATION METHODS FOR SURFACE FINISHES INCLUDE SPRAY, ROLLER, RAGS AND/OR SPONGES.
8. APPLY MULTI-COLOR FAUX STONE FINISH TO ASHLAR PANELS. THE COLOR PALETTE WILL HAVE SEVEN DIFFERENT COLORS USED THROUGH OUT: ONE FOR THE MORTAR LINES, THREE BASE COLORS FOR THE STONES, PULL FROM THE FULL SEVEN COLOR PALATE WHEN APPLYING RAG COLORS.
9. APPLY ALL COLORS TO A SMALL SAMPLE AREA OF THE STRUCTURE FOR PALETTE AND FAUX FINISH APPROVAL BY THE CITY AND THE ENGINEER. MORE THAN ONE SAMPLE PASS MAY BE REQUIRED. SURFACE FINISH FOR THE ENTIRE WALL SHALL MATCH THE APPROVED SAMPLE.
10. PROTECT ALL SURFACES WITH ANTI-GRAFFITI COATING. APPLY CLEAR, TYPE II PERMANENT ANTI-GRAFFITI COATING TO ALL PAINTED AREAS.

DRAFT COLOR PALLET INCLUDES THE FOLLOWING:
 SW 6105 - DIVINE WHITE
 SW 6108 - LATTE
 SW6386 - NAPERY
 SW6137 - BURLAP
 SW6103 - TEA CHEST

FAUX STONE PAINTING COLOR DETAIL

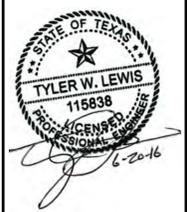


ASHLAR STONE PATTERN:
 STONE BASE: 1/4 TO 1/3 LATTE, 2/3 NAPERY
 RAG COLORS: NAPERY, DIVINE WHITE, LATTE, BURLAP
 2 - 3 HIGHLIGHT STONES: TEA CHEST / BURLAP
 MORTAR: TEA CHEST

NO.	REVISIONS	DATE	BY

Kimley»Horn

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 2800 SOUTH BRYAN, TX 77802 SUITE 201
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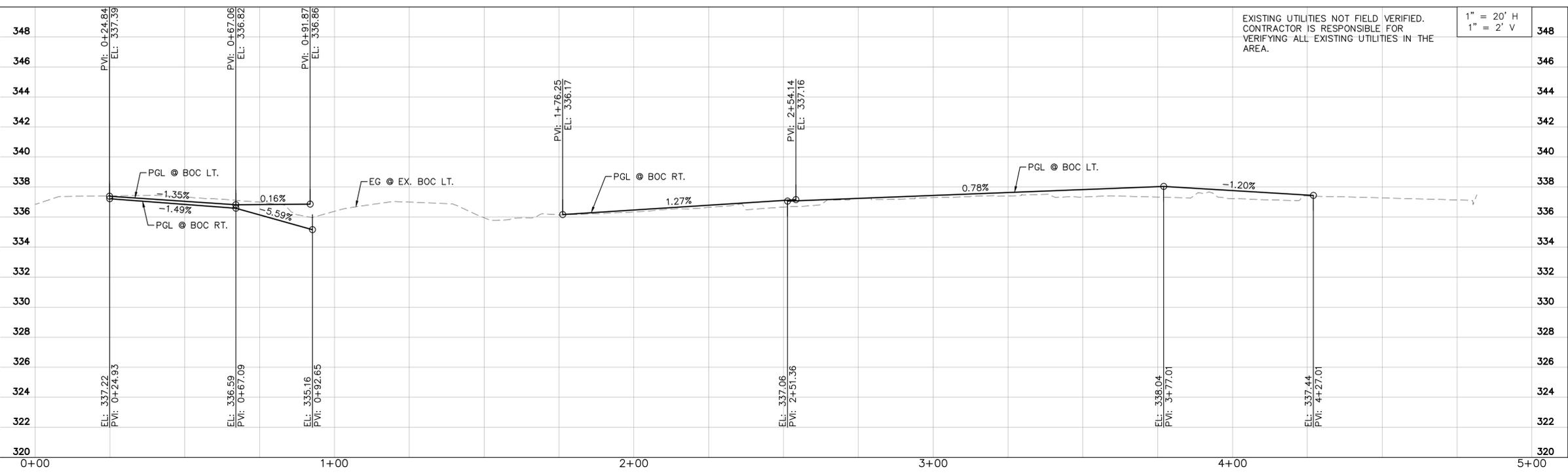
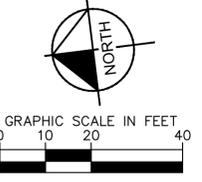
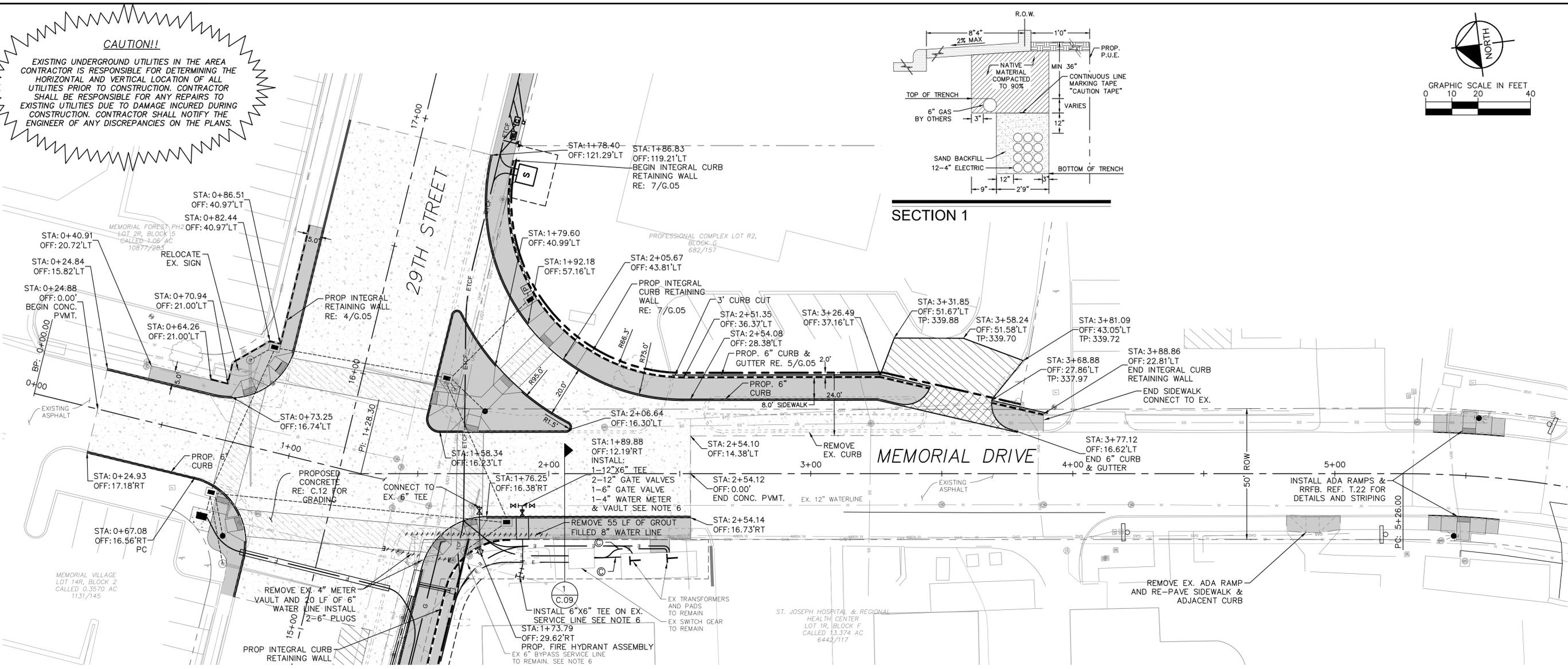


KHA PROJECT	061271616
DATE	JUNE 2016
SCALE	AS SHOWN
DESIGNED BY	TWL
DRAWN BY	KHA
CHECKED BY	JCH

PAVING 29TH STREET RETAINING WALL

ST. JOSEPH HOSPITAL
AREA IMPROVEMENTS
 PREPARED FOR
CITY OF BRYAN TEXAS

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 - CONTRACTOR SHALL CONFIRM ORIENTATION OF EX. WATER SERVICE CONNECTIONS IN THE AREA. EX. 6" BYPASS LINE FROM EX. 12" WATERLINE IN MEMORIAL SHALL REMAIN. PROP. WATER METER SHALL BE PROVIDED BY THE CITY AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL COORDINATE NEW SERVICE CONNECTION WITH CITY AND ST. JOSEPH. CONNECTION SHALL OCCUR OVERNIGHT WITH LIMITED OUTAGE. ALL WORK SHALL BE SUBSIDIARY TO METER VAULT INSTALLATION.

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STATE OF TEXAS
TYLER W. LEWIS
115838
Professional Engineer

KHA PROJECT 061271616
DATE JUNE 2016
SCALE AS SHOWN
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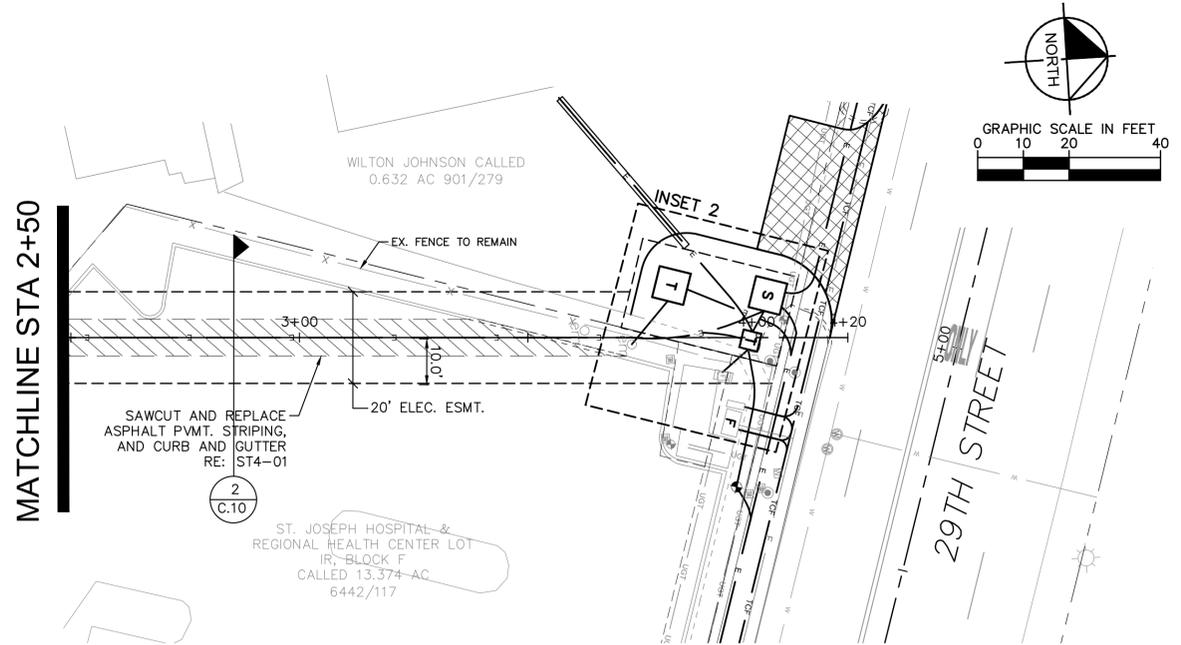
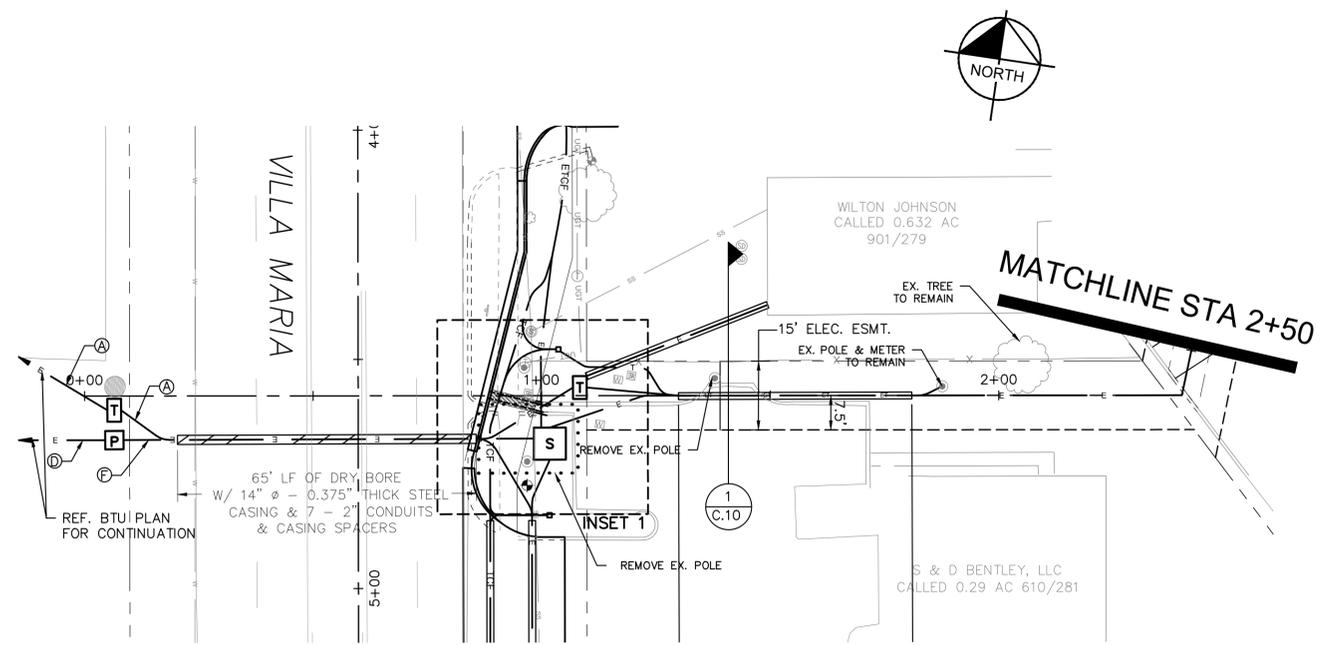
PAVING MEMORIAL (BEGIN TO END)

ST. JOSEPH HOSPITAL AREA IMPROVEMENTS PREPARED FOR CITY OF BRYAN TEXAS

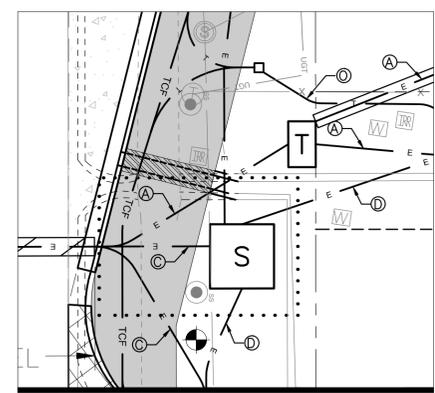
SHEET NUMBER **C.09**

NO. REVISIONS DATE BY

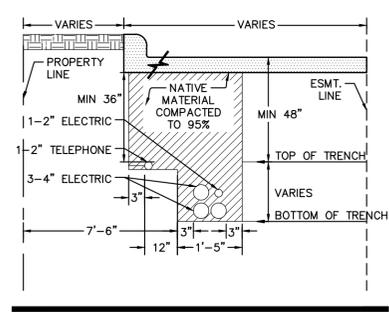
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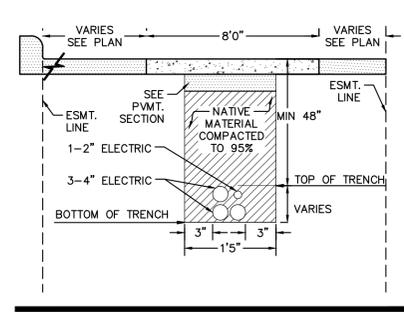
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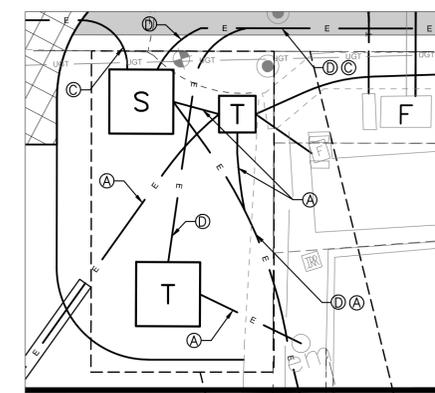
INSET 1
 SCALE: 1" = 10'



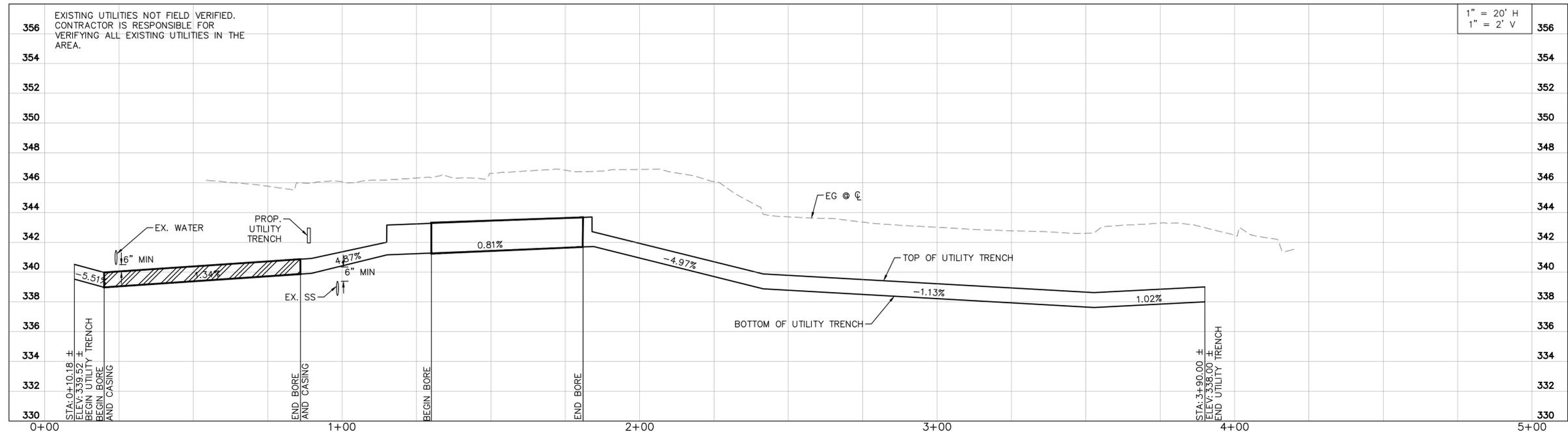
SECTION 1



SECTION 2

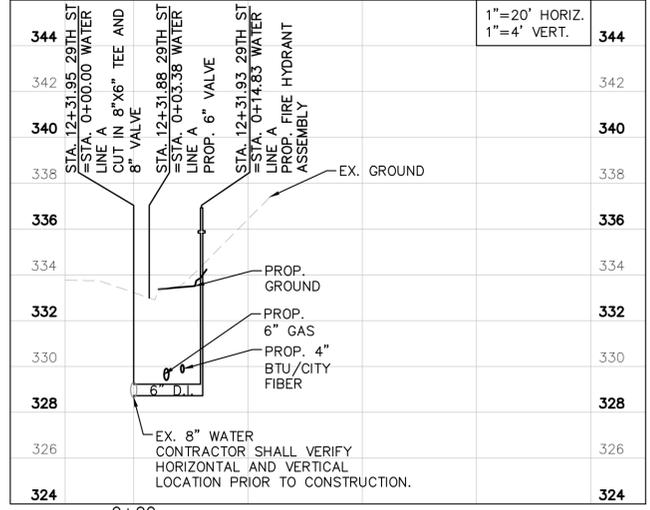


INSET 2
 SCALE: 1" = 10'

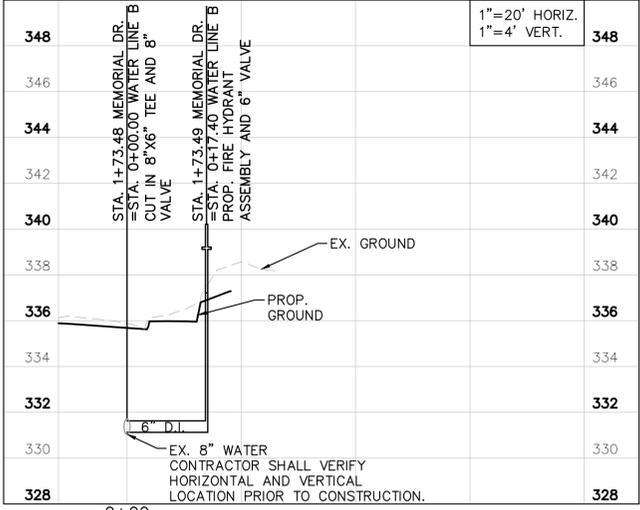


- NOTES**
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES IN THE AREA.
 - CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN THE LIMITS OF CONSTRUCTION. NO SEPARATE PAY.
 - CONTRACTOR SHALL COORDINATE WITH CITY TO RELOCATE WATER METER VAULTS WITHIN THE LIMITS OF CONSTRUCTION.
 - ALL CONDUIT TERMINATIONS SHALL SWEEP UP AND BE CAPPED 2' ABOVE GRADE.
 - EXISTING TREE TO REMAIN. CONTRACTOR SHALL PROVIDE TREE PROTECTION.

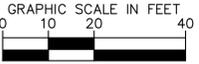
		No. _____ REVISIONS _____ DATE _____ BY _____	
		2016 KIMLEY-HORN AND ASSOCIATES, INC. REGISTERED PROFESSIONAL ENGINEERING FIRM F-926 2800 SOUTH BRYAN, TX 77802-3016 PHONE: 979-775-9999 FAX: 979-775-9599 WWW.KIMLEY-HORN.COM	
STATE OF TEXAS TYLER W. LEWIS 115838 LICENSED PROFESSIONAL ENGINEER 6-20-16		KHA PROJECT 061271616 DATE JUNE 2016 SCALE AS SHOWN DESIGNED BY TWL DRAWN BY KHA CHECKED BY JCH	
OFFSITE ELECTRICAL		ST. JOSEPH HOSPITAL AREA IMPROVEMENTS PREPARED FOR CITY OF BRYAN TEXAS	
SHEET NUMBER C.10			



WATER LINE A



WATER LINE B



CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA
CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE
HORIZONTAL AND VERTICAL LOCATION OF ALL
UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR
SHALL BE RESPONSIBLE FOR ANY REPAIRS TO
EXISTING UTILITIES DUE TO DAMAGE INCURED DURING
CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE
ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

No.	REVISIONS	DATE	BY

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BRYAN, TX 77802
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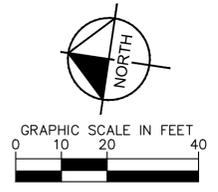
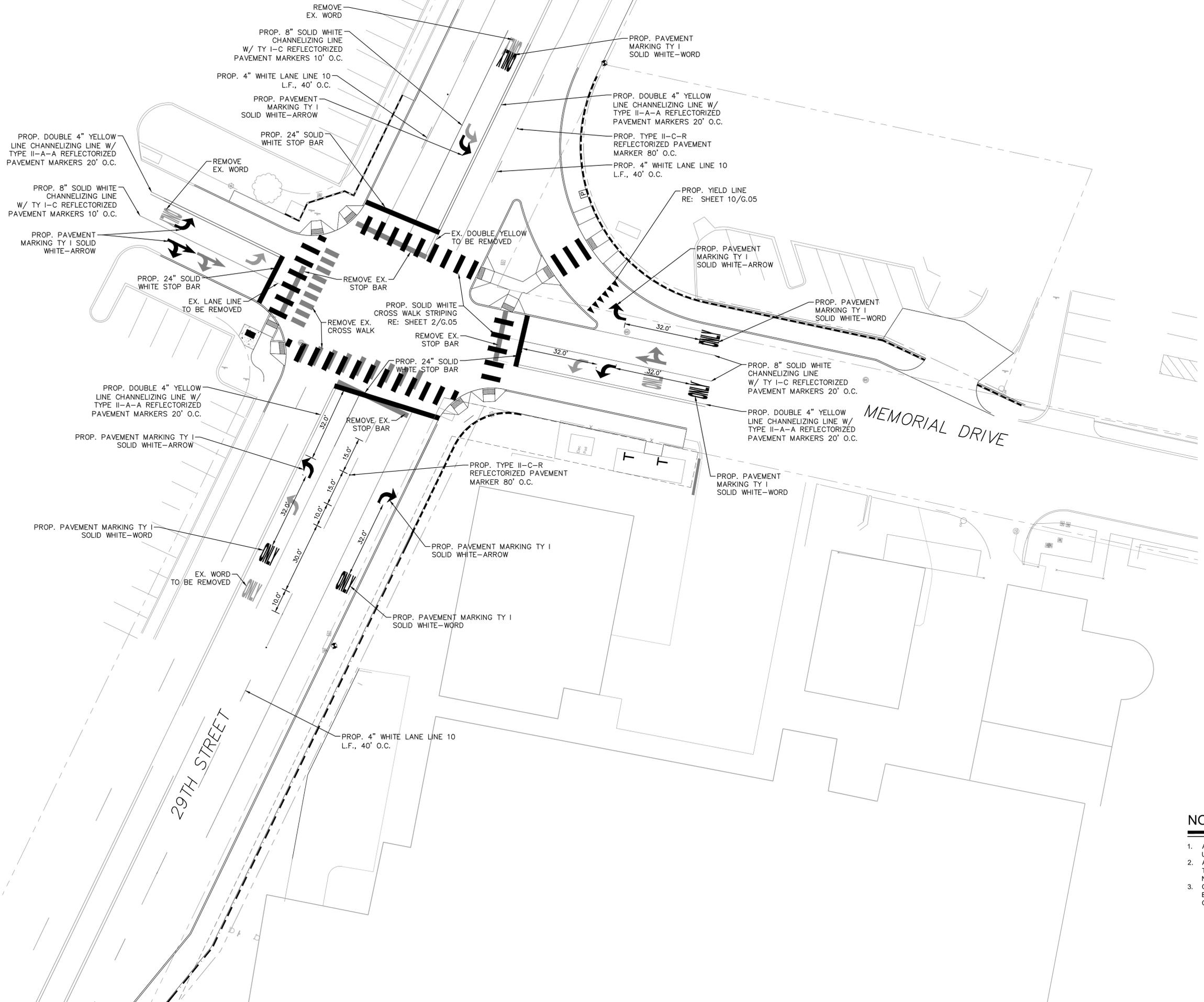


KHA PROJECT	061271616
DATE	JUNE 2016
SCALE	AS SHOWN
DESIGNED BY	TWL
DRAWN BY	KHA
CHECKED BY	JCH

WATER PROFILES

**ST. JOSEPH HOSPITAL
AREA IMPROVEMENTS
PREPARED FOR
CITY OF BRYAN
TEXAS**

Plotted By: Kover, Aaron Sheet Set: KHA Layout: Memorial June 21, 2016 03:14:44pm K:\est_civil\061271616-e_29th_st\DWG\Sheets\S_Striping.dwg
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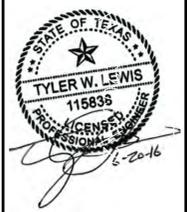
NOTES

1. ALL EXISTING STRIPING IS TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL PROPOSED STRIPING SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED LAYOUT.

No.	REVISIONS	DATE	BY

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2216 KIMLEY-HORN AND ASSOCIATES, INC.
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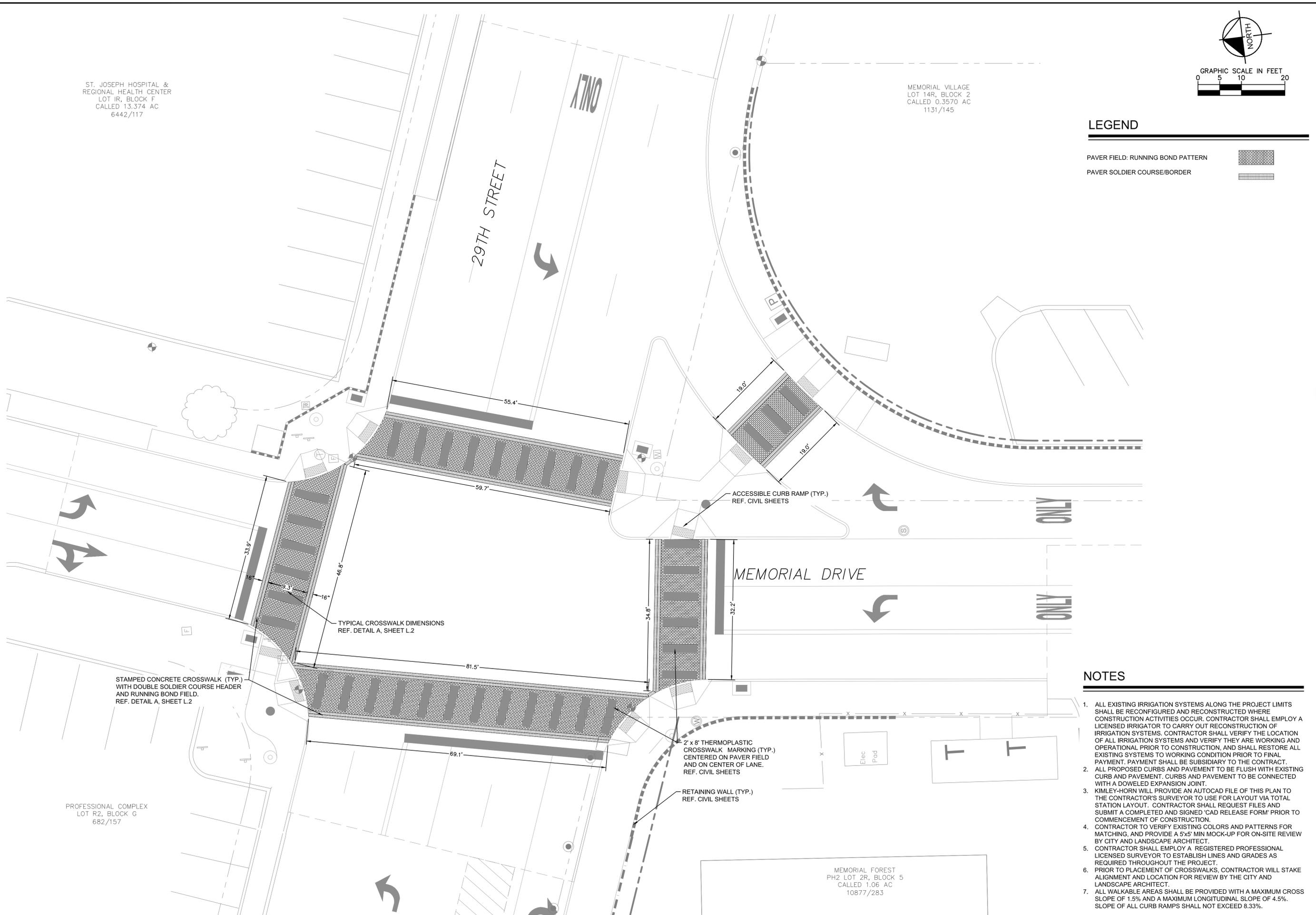
KHA PROJECT	061271616
DATE	JUNE 2016
SCALE	AS SHOWN
DESIGNED BY	TWL
DRAWN BY	KHA
CHECKED BY	JCH

MEMORIAL & 29TH INTERSECTION PAVEMENT MARKING

ST. JOSEPH HOSPITAL AREA IMPROVEMENTS
 PREPARED FOR
CITY OF BRYAN TEXAS

SHEET NUMBER
C.16

Plotted By: Taylor, Morgan Sheet Set: KHA Layout: MEMORIAL & 29TH INTERSECTION - HARDSCAPE PLAN June 20, 2016 03:06:13pm K:\LAC\LALP\College Station LD_Support\061271616_St. Joseph Road Improvements\Drawings\Hardscape Plan.dwg
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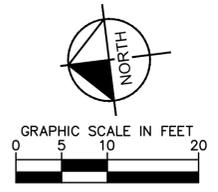


ST. JOSEPH HOSPITAL &
REGIONAL HEALTH CENTER
LOT 1R, BLOCK F
CALLED 13.374 AC
6442/117

MEMORIAL VILLAGE
LOT 14R, BLOCK 2
CALLED 0.3570 AC
1131/145

PROFESSIONAL COMPLEX
LOT R2, BLOCK G
682/157

MEMORIAL FOREST
PH2 LOT 2R, BLOCK 5
CALLED 1.06 AC
10877/283



LEGEND

- PAVER FIELD: RUNNING BOND PATTERN
- PAVER SOLDIER COURSE/BORDER

NOTES

1. ALL EXISTING IRRIGATION SYSTEMS ALONG THE PROJECT LIMITS SHALL BE RECONFIGURED AND RECONSTRUCTED WHERE CONSTRUCTION ACTIVITIES OCCUR. CONTRACTOR SHALL EMPLOY A LICENSED IRRIGATOR TO CARRY OUT RECONSTRUCTION OF IRRIGATION SYSTEMS. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL IRRIGATION SYSTEMS AND VERIFY THEY ARE WORKING AND OPERATIONAL PRIOR TO CONSTRUCTION, AND SHALL RESTORE ALL EXISTING SYSTEMS TO WORKING CONDITION PRIOR TO FINAL PAYMENT. PAYMENT SHALL BE SUBSIDIARY TO THE CONTRACT.
2. ALL PROPOSED CURBS AND PAVEMENT TO BE FLUSH WITH EXISTING CURB AND PAVEMENT. CURBS AND PAVEMENT TO BE CONNECTED WITH A DOWELED EXPANSION JOINT.
3. KIMLEY-HORN WILL PROVIDE AN AUTOCAD FILE OF THIS PLAN TO THE CONTRACTOR'S SURVEYOR TO USE FOR LAYOUT VIA TOTAL STATION LAYOUT. CONTRACTOR SHALL REQUEST FILES AND SUBMIT A COMPLETED AND SIGNED 'CAD RELEASE FORM' PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. CONTRACTOR TO VERIFY EXISTING COLORS AND PATTERNS FOR MATCHING, AND PROVIDE A 5'x5' MIN MOCK-UP FOR ON-SITE REVIEW BY CITY AND LANDSCAPE ARCHITECT.
5. CONTRACTOR SHALL EMPLOY A REGISTERED PROFESSIONAL LICENSED SURVEYOR TO ESTABLISH LINES AND GRADES AS REQUIRED THROUGHOUT THE PROJECT.
6. PRIOR TO PLACEMENT OF CROSSWALKS, CONTRACTOR WILL STAKE ALIGNMENT AND LOCATION FOR REVIEW BY THE CITY AND LANDSCAPE ARCHITECT.
7. ALL WALKABLE AREAS SHALL BE PROVIDED WITH A MAXIMUM CROSS SLOPE OF 1.5% AND A MAXIMUM LONGITUDINAL SLOPE OF 4.5%. SLOPE OF ALL CURB RAMPS SHALL NOT EXCEED 8.33%.

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KHA PROJECT	061271616
DATE	JUNE 2016
SCALE	AS SHOWN
DESIGNED BY	JAF
DRAWN BY	KHA
CHECKED BY	JCH

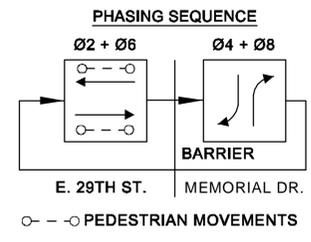
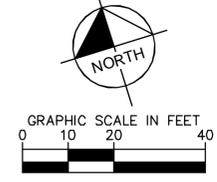
**MEMORIAL & 29TH
INTERSECTION
HARDSCAPE PLAN**

**ST. JOSEPH HOSPITAL
AREA IMPROVEMENTS
PREPARED FOR
CITY OF BRYAN
TEXAS**

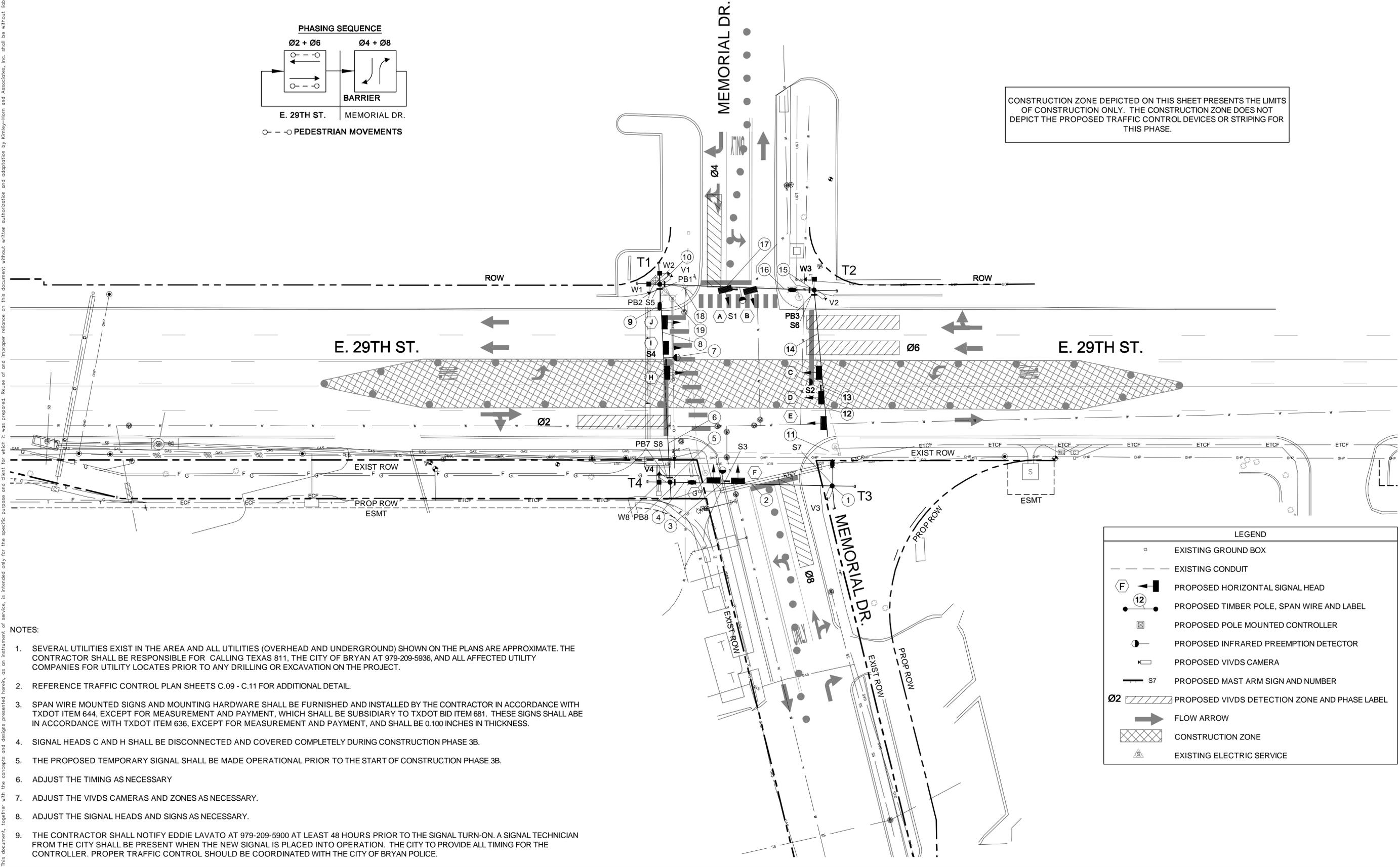
SHEET NUMBER
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No.	REVISIONS	DATE	BY

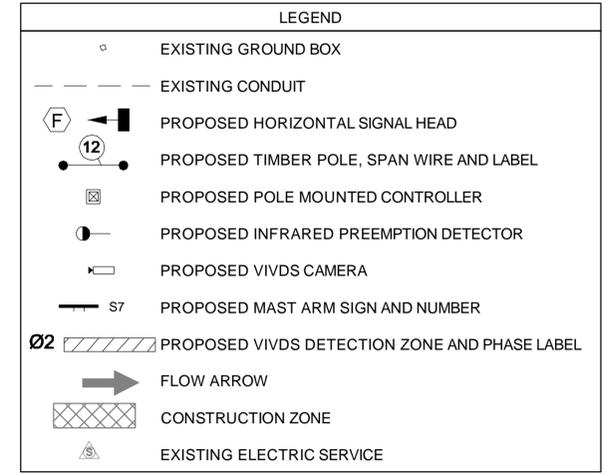
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CONSTRUCTION ZONE DEPICTED ON THIS SHEET PRESENTS THE LIMITS OF CONSTRUCTION ONLY. THE CONSTRUCTION ZONE DOES NOT DEPICT THE PROPOSED TRAFFIC CONTROL DEVICES OR STRIPING FOR THIS PHASE.



- NOTES:**
- SEVERAL UTILITIES EXIST IN THE AREA AND ALL UTILITIES (OVERHEAD AND UNDERGROUND) SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING TEXAS 811, THE CITY OF BRYAN AT 979-209-5936, AND ALL AFFECTED UTILITY COMPANIES FOR UTILITY LOCATES PRIOR TO ANY DRILLING OR EXCAVATION ON THE PROJECT.
 - REFERENCE TRAFFIC CONTROL PLAN SHEETS C.09 - C.11 FOR ADDITIONAL DETAIL.
 - SPAN WIRE MOUNTED SIGNS AND MOUNTING HARDWARE SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH TXDOT ITEM 644, EXCEPT FOR MEASUREMENT AND PAYMENT, WHICH SHALL BE SUBSIDIARY TO TXDOT BID ITEM 681. THESE SIGNS SHALL ABE IN ACCORDANCE WITH TXDOT ITEM 636, EXCEPT FOR MEASUREMENT AND PAYMENT, AND SHALL BE 0.100 INCHES IN THICKNESS.
 - SIGNAL HEADS C AND H SHALL BE DISCONNECTED AND COVERED COMPLETELY DURING CONSTRUCTION PHASE 3B.
 - THE PROPOSED TEMPORARY SIGNAL SHALL BE MADE OPERATIONAL PRIOR TO THE START OF CONSTRUCTION PHASE 3B.
 - ADJUST THE TIMING AS NECESSARY
 - ADJUST THE VIVDS CAMERAS AND ZONES AS NECESSARY.
 - ADJUST THE SIGNAL HEADS AND SIGNS AS NECESSARY.
 - THE CONTRACTOR SHALL NOTIFY EDDIE LAVATO AT 979-209-5900 AT LEAST 48 HOURS PRIOR TO THE SIGNAL TURN-ON. A SIGNAL TECHNICIAN FROM THE CITY SHALL BE PRESENT WHEN THE NEW SIGNAL IS PLACED INTO OPERATION. THE CITY TO PROVIDE ALL TIMING FOR THE CONTROLLER. PROPER TRAFFIC CONTROL SHOULD BE COORDINATED WITH THE CITY OF BRYAN POLICE.



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KHA PROJECT	061271616
DATE	JUNE 2016
SCALE	AS SHOWN
DESIGNED BY	SRA
DRAWN BY	MEC
CHECKED BY	CBS

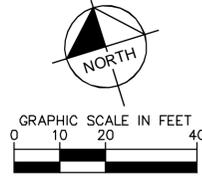
TRAFFIC SIGNAL
 E. 29TH ST. &
 MEMORIAL DR.
 PHASE 3B TEMPORARY
 TRAFFIC SIGNAL

ST. JOSEPH'S AREA
 IMPROVEMENTS
 PREPARED FOR
 CITY OF BRYAN
 TEXAS

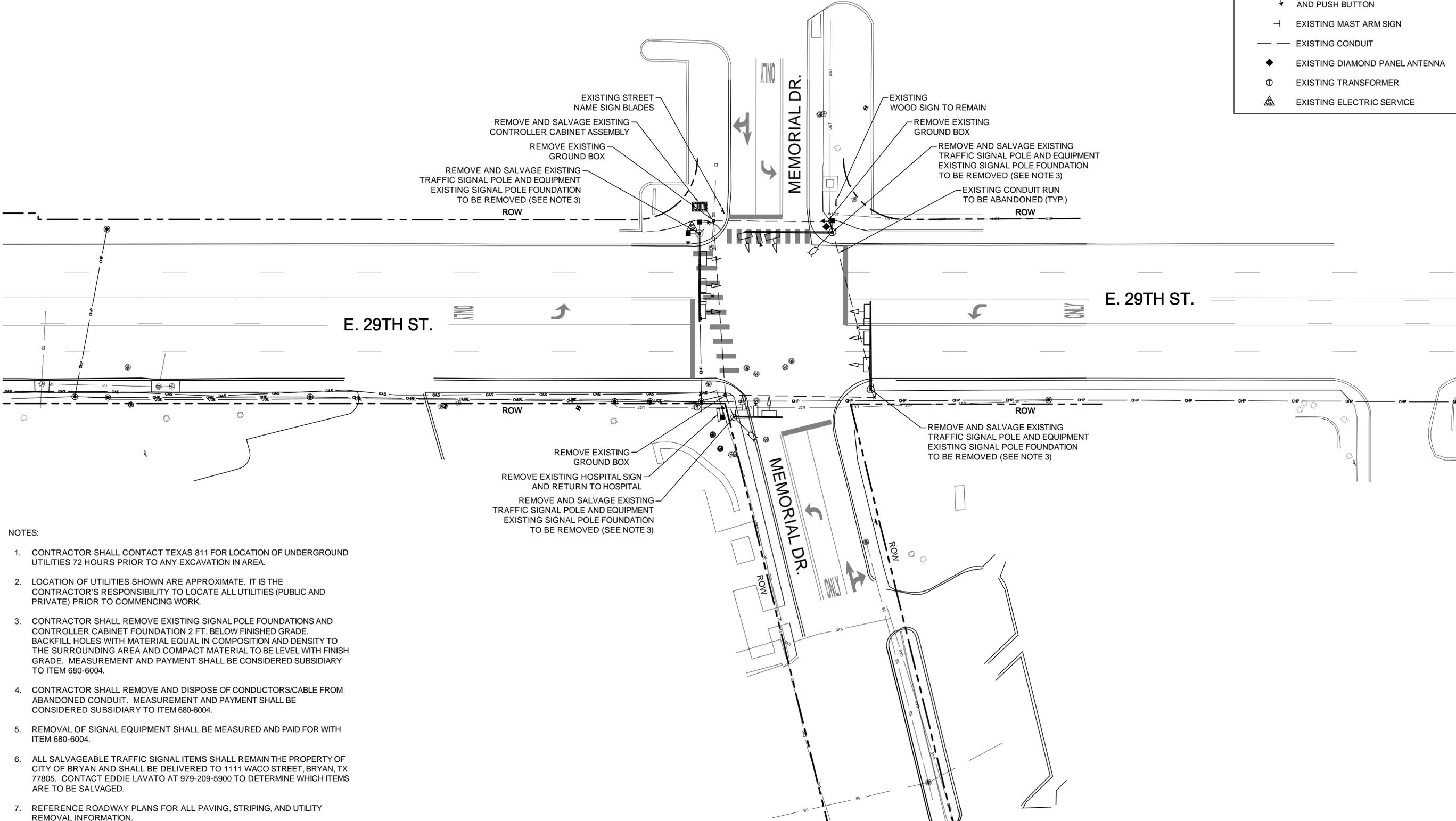
SHEET NUMBER
T.06

No.	REVISIONS	DATE	BY

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LEGEND	
	EXISTING SIGNAL POLE AND MAST ARM
	EXISTING TRAFFIC SIGNAL CONTROLLER CABINET ASSEMBLY
	EXISTING HORIZONTAL SIGNAL HEAD
	EXISTING LUMINAIRE
	EXISTING GROUND BOX
	EXISTING VIVDS CAMERA
	EXISTING OPTICOM DETECTOR
	EXISTING PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON
	EXISTING MAST ARM SIGN
	EXISTING CONDUIT
	EXISTING DIAMOND PANEL ANTENNA
	EXISTING TRANSFORMER
	EXISTING ELECTRIC SERVICE



- NOTES:
- CONTRACTOR SHALL CONTACT TEXAS 811 FOR LOCATION OF UNDERGROUND UTILITIES 72 HOURS PRIOR TO ANY EXCAVATION IN AREA.
 - LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES (PUBLIC AND PRIVATE) PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL REMOVE EXISTING SIGNAL POLE FOUNDATIONS AND CONTROLLER CABINET FOUNDATION 2 FT. BELOW FINISHED GRADE. BACKFILL HOLES WITH MATERIAL EQUAL IN COMPOSITION AND DENSITY TO THE SURROUNDING AREA AND COMPACT MATERIAL TO BE LEVEL WITH FINISH GRADE. MEASUREMENT AND PAYMENT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 680-6004.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF CONDUCTORS/CABLE FROM ABANDONED CONDUIT. MEASUREMENT AND PAYMENT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 680-6004.
 - REMOVAL OF SIGNAL EQUIPMENT SHALL BE MEASURED AND PAID FOR WITH ITEM 680-6004.
 - ALL SALVAGEABLE TRAFFIC SIGNAL ITEMS SHALL REMAIN THE PROPERTY OF CITY OF BRYAN AND SHALL BE DELIVERED TO 1111 WACO STREET, BRYAN, TX 77805. CONTACT EDDIE LAVATO AT 979-209-5900 TO DETERMINE WHICH ITEMS ARE TO BE SALVAGED.
 - REFERENCE ROADWAY PLANS FOR ALL PAVING, STRIPING, AND UTILITY REMOVAL INFORMATION.

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KHA PROJECT	061271616
DATE	JUNE 2016
SCALE	AS SHOWN
DESIGNED BY	SRA
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CHECKED BY	CBS

EXISTING CONDITIONS
 AND REMOVALS LAYOUT
 E. 29TH ST. &
 MEMORIAL DR.

ST. JOSEPH'S AREA
 IMPROVEMENTS
 PREPARED FOR
 CITY OF BRYAN
 TEXAS

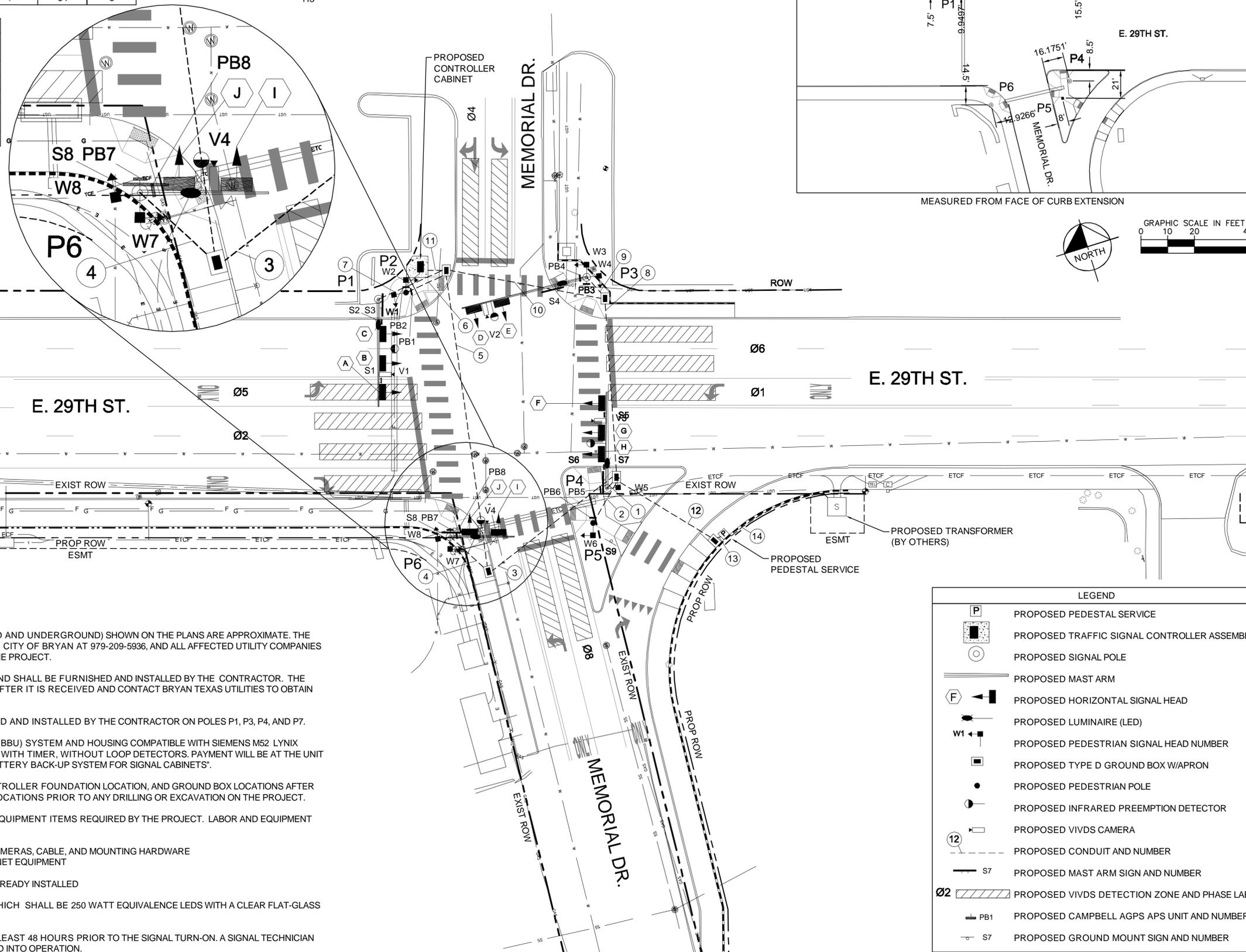
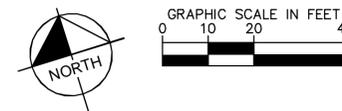
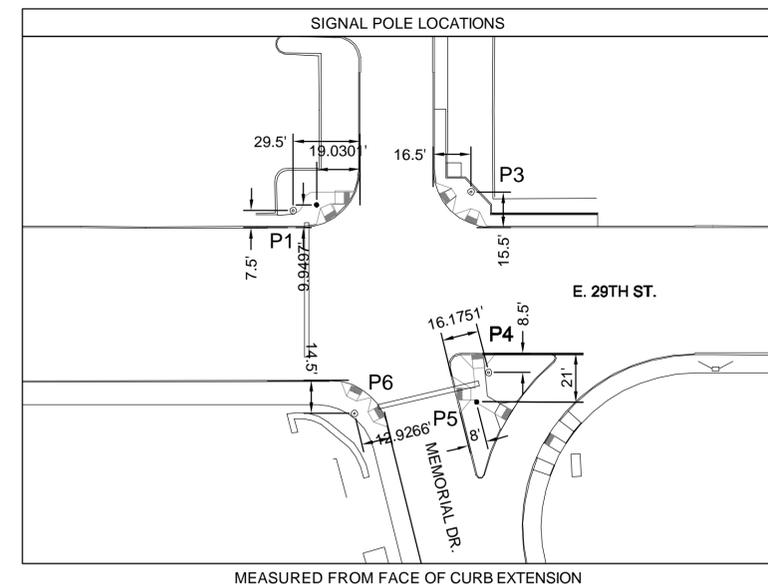
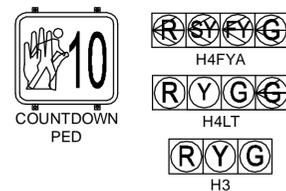
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ITEM 682 SIGNAL HEADS WITH LED LAMPS						
SIGNAL HEAD NO.	SIGNAL HEAD TYPE	STATUS	12" SIGNAL INDICATION		VEH SIG SEC (EA)	PED SIG SEC (EA)
			BACKPLATES			
			3 SEC (EA)	4 SEC (EA)		
A,F	H4FYA	I		2	8	
D,I	H4LT	I		2	8	
B,C,E,G,H,J	H3	I	6		18	
W1,W2,W3,W4,W5,W6,W7,W8	PED	I				8
TOTAL (NEW)			6	4	34	8

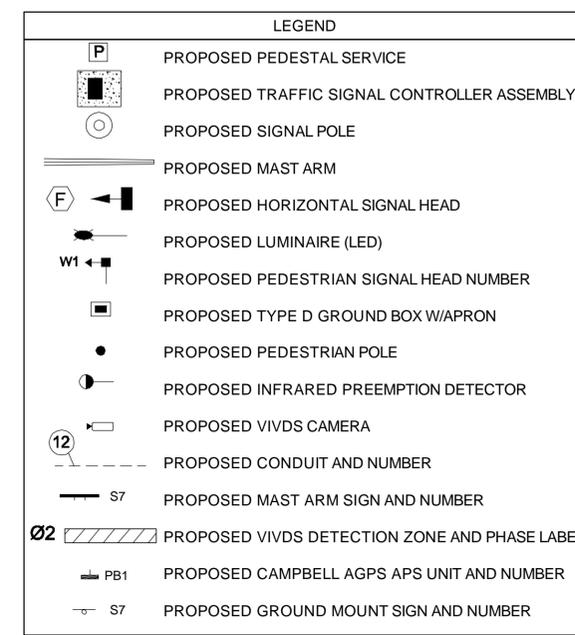
MAST ARM ASSEMBLY SUMMARY					
POLE NUMBER	MAST ARM LENGTH (FT)	NO. OF HEADS	10' LUM ARM	FND. TYPE	FND. DEPTH (FT)
P1	40	3	Y	36-A	13
P2	N/A	N/A	N	24-A	6
P3	48	2	Y	36-A	13
P4	36	3	Y	36-A	13
P5	N/A	N/A	N	24-A	6
P6	24	2	Y	30-A	11

ITEM 624 GROUND BOX SUMMARY		
TYPE	EACH	STATUS
D WITH APRON	5	I



NOTES:

- SEVERAL UTILITIES EXIST IN THE AREA AND ALL UTILITIES (OVERHEAD AND UNDERGROUND) SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING TEXAS 811, THE CITY OF BRYAN AT 979-209-5936, AND ALL AFFECTED UTILITY COMPANIES FOR UTILITY LOCATES PRIOR TO ANY DRILLING OR EXCAVATION ON THE PROJECT.
- THE SERVICE PANEL SHALL BE TYPE D (120/240) 060 (NS)SS(E)PS(U) AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL THE SERVICE PANEL WITHIN 10 DAYS AFTER IT IS RECEIVED AND CONTACT BRYAN TEXAS UTILITIES TO OBTAIN POWER FOR THE PANEL (LEAD-TIMES CAN BE AS LONG AS 60-90 DAYS).
- RED-SIGNAL INDICATION CONFIRMATION LIGHTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ON POLES P1, P3, P4, AND P7.
- THE CONTRACTOR SHALL FURNISH AND INSTALL BATTERY BACK-UP (BBU) SYSTEM AND HOUSING COMPATIBLE WITH SIEMENS M52 LYNIX CONTROLLER AND NEMA CABINET SIZE 6, BASE MOUNT, 16 POSITION, WITH TIMER, WITHOUT LOOP DETECTORS. PAYMENT WILL BE AT THE UNIT PRICE, IN ACCORDANCE WITH SPECIAL SPECIFICATION ITEM 6058 "BATTERY BACK-UP SYSTEM FOR SIGNAL CABINETS".
- THE CONTRACTOR SHALL STAKE ALL SIGNAL POLE LOCATIONS, CONTROLLER FOUNDATION LOCATION, AND GROUND BOX LOCATIONS AFTER UTILITY LOCATES ARE FINALIZED. THE CITY MUST APPROVE THESE LOCATIONS PRIOR TO ANY DRILLING OR EXCAVATION ON THE PROJECT.
- THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING EQUIPMENT ITEMS REQUIRED BY THE PROJECT. LABOR AND EQUIPMENT SUBSIDIARY TO ITEM 680 TO INSTALL THE FOLLOWING ITEMS:
 - (A) SIGNAL CABINET AND ALL INTERNAL COMPONENTS
 - (B) ITERIS VEHICLE IMAGE VEHICLE DETECTION SYSTEM (VIVDS) CAMERAS, CABLE, AND MOUNTING HARDWARE
 - (C) INFRARED PREEMPTION DETECTORS, LEAD-IN CABLE, AND CABINET EQUIPMENT
 - (D) STREET NAME SIGNS AND BACKLIT EMERGENCY SIGNS
 - (E) SIEMENS M5S LYNIX 2 SIGNAL CONTROLLER WITH INTERNALS ALREADY INSTALLED
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LUMINARIES, WHICH SHALL BE 250 WATT EQUIVALENCE LEDS WITH A CLEAR FLAT-GLASS INSERT.
- THE CONTRACTOR SHALL NOTIFY EDDIE LAVATO AT 979-209-5900 AT LEAST 48 HOURS PRIOR TO THE SIGNAL TURN-ON. A SIGNAL TECHNICIAN FROM THE CITY SHALL BE PRESENT WHEN THE NEW SIGNAL IS PLACED INTO OPERATION.



No.	REVISIONS	DATE	BY

Kimley»Horn

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Scott R. Arnold
6/20/16

KHA PROJECT	061271616
DATE	JUNE 2016
SCALE	AS SHOWN
DESIGNED BY	SRA
DRAWN BY	MEC
CHECKED BY	CBS

**TRAFFIC SIGNAL
 E. 29TH ST. &
 MEMORIAL DR.
 INTERSECTION LAYOUT**

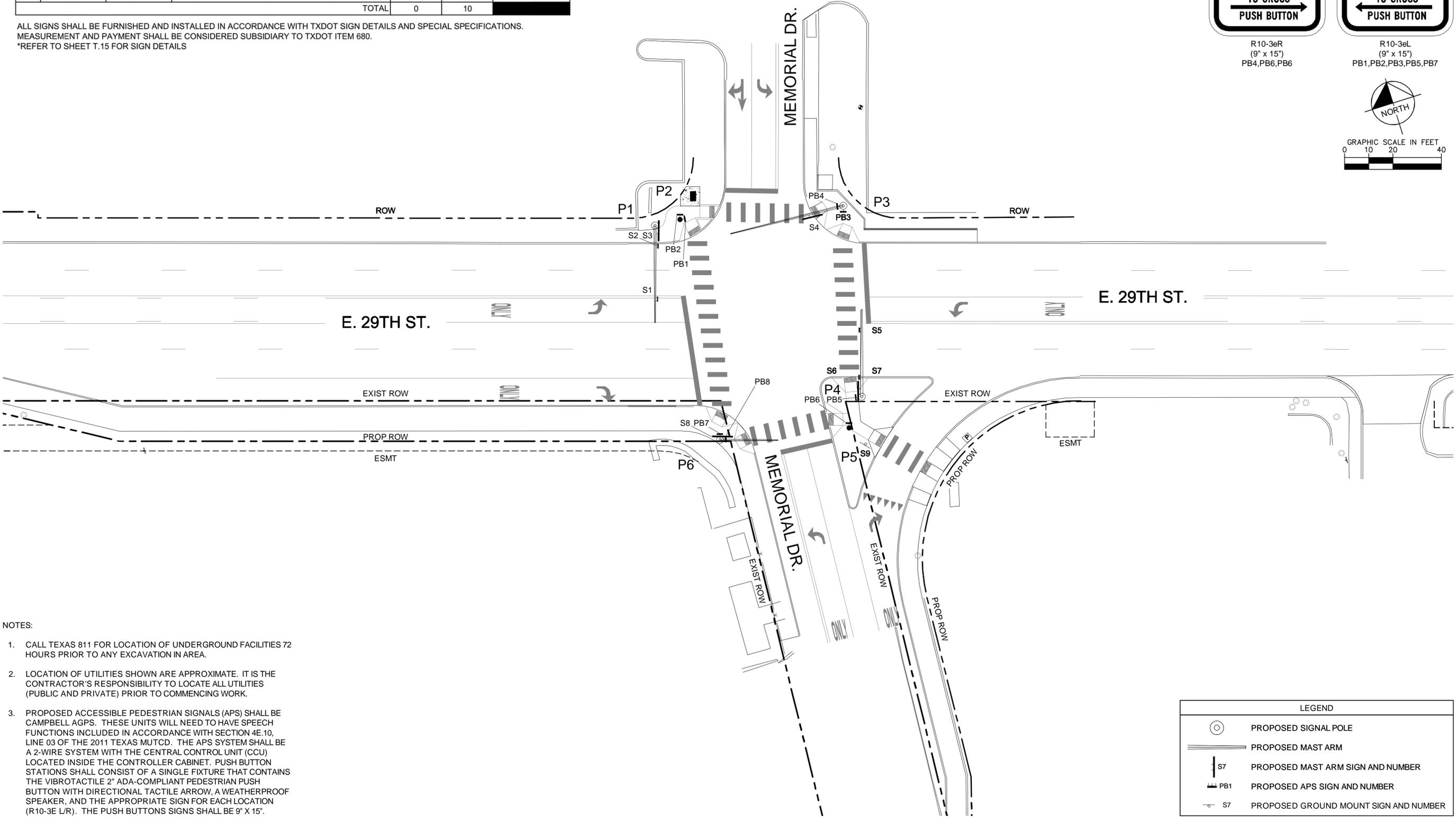
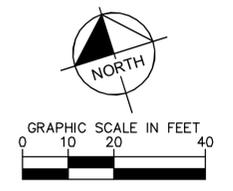
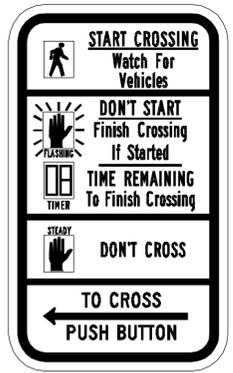
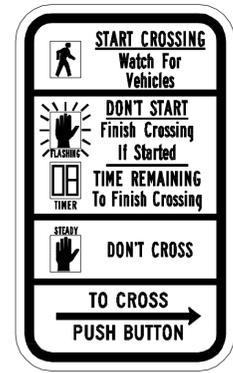
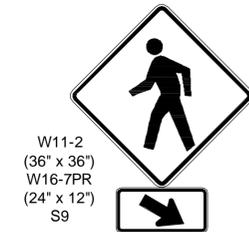
**ST. JOSEPH'S AREA
 IMPROVEMENTS
 PREPARED FOR
 CITY OF BRYAN
 TEXAS**

SHEET NUMBER
T.11

Plotted By: Clarkowski, Matt Sheet Set: Kha Layout: Layout1 June 20, 2016 01:44:58pm K:\FTW\TPTD\061271616-Bryan-St-Josephs\CADD\SHEETS\MEMORIAL\06E_29TH_MEMORIAL_INSTALLATION.dwg
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TRAFFIC SIGNAL SIGNS SUMMARY						
ID	TYPE	SIZE	LEGEND	INSTALL	FURNISH & INSTALL	LOCATION
S1	R10-17T	30"x36"	LEFT TURN YIELD ON FLASHING YELLOW ARROW		1	P1 ARM
S2	BACKLIT*	96"x16"	EMERGENCY (LEFT)		1	P1 ARM
S3	SN*	24"x132"	MEMORIAL DR		1	P1 ARM
S4	SN*	24"x96"	E 29TH ST		1	P3 ARM
S5	R10-17T	30"x36"	LEFT TURN YIELD ON FLASHING YELLOW ARROW		1	P4 ARM
S6	BACKLIT*	96"x16"	EMERGENCY (RIGHT)		1	P4 ARM
S7	SN*	24"x132"	MEMORIAL DR		1	P4 ARM
S8	SN*	24"x96"	E 29TH ST		1	P7 ARM
S9	W11-2	36"x36"	PEDESTRIAN		1	GROUND MOUNT
	W16-7P	24"x12"	ARROW		1	GROUND MOUNT
TOTAL				0	10	

ALL SIGNS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH TXDOT SIGN DETAILS AND SPECIAL SPECIFICATIONS.
 MEASUREMENT AND PAYMENT SHALL BE CONSIDERED SUBSIDIARY TO TXDOT ITEM 680.
 *REFER TO SHEET T.15 FOR SIGN DETAILS



- NOTES:
- CALL TEXAS 811 FOR LOCATION OF UNDERGROUND FACILITIES 72 HOURS PRIOR TO ANY EXCAVATION IN AREA.
 - LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES (PUBLIC AND PRIVATE) PRIOR TO COMMENCING WORK.
 - PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS (APS) SHALL BE CAMPBELL AGPS. THESE UNITS WILL NEED TO HAVE SPEECH FUNCTIONS INCLUDED IN ACCORDANCE WITH SECTION 4E.10, LINE 03 OF THE 2011 TEXAS MUTCD. THE APS SYSTEM SHALL BE A 2-WIRE SYSTEM WITH THE CENTRAL CONTROL UNIT (CCU) LOCATED INSIDE THE CONTROLLER CABINET. PUSH BUTTON STATIONS SHALL CONSIST OF A SINGLE FIXTURE THAT CONTAINS THE VIBROTACTILE 2" ADA-COMPLIANT PEDESTRIAN PUSH BUTTON WITH DIRECTIONAL TACTILE ARROW, A WEATHERPROOF SPEAKER, AND THE APPROPRIATE SIGN FOR EACH LOCATION (R10-3E L/R). THE PUSH BUTTONS SIGNS SHALL BE 9" X 15".

LEGEND	
	PROPOSED SIGNAL POLE
	PROPOSED MAST ARM
	S7 PROPOSED MAST ARM SIGN AND NUMBER
	PB1 PROPOSED APS SIGN AND NUMBER
	S7 PROPOSED GROUND MOUNT SIGN AND NUMBER

NO.
REVISIONS
DATE
BY

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Scott Arnold, P.E.
6/20/16

TRAFFIC SIGNAL
E. 29TH ST. &
MEMORIAL DR.
SIGNS LAYOUT

ST. JOSEPH'S AREA
IMPROVEMENTS
 PREPARED FOR
CITY OF BRYAN
TEXAS

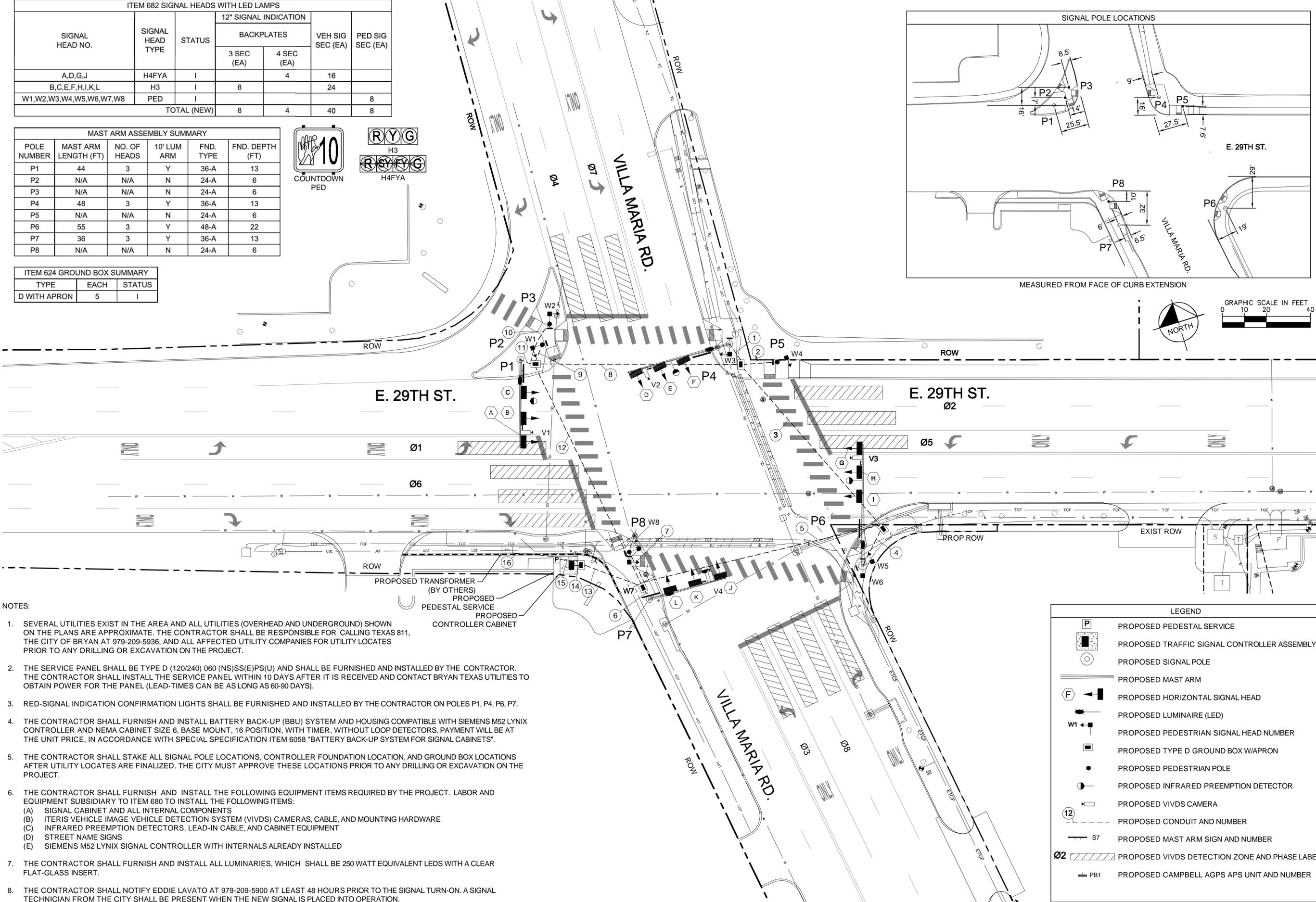
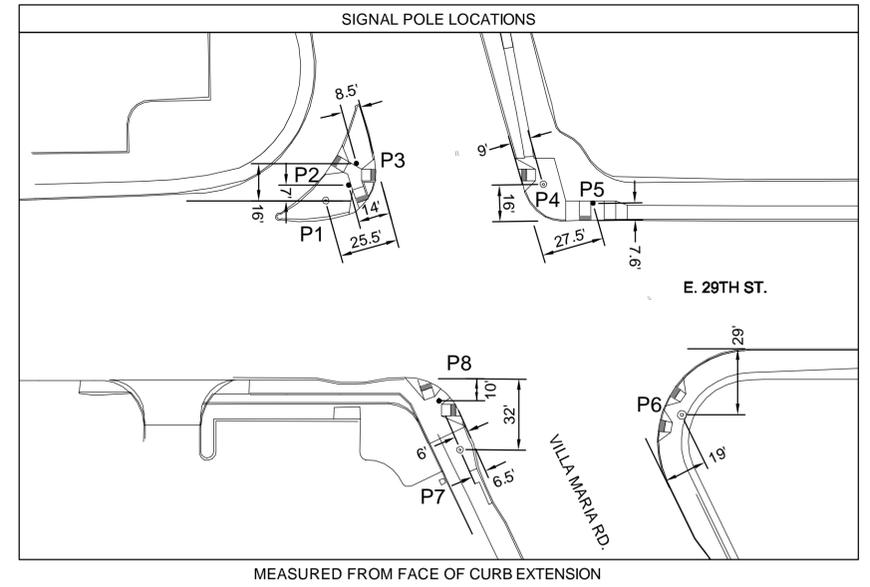
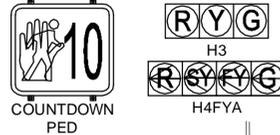
SHEET NUMBER
T.13

Plotted By: Clarkowski, Matt Sheet: Set: Kha Layout: Layout1 June 20, 2016 01:47:15pm K:\FTW_IPTO\061271616-Bryan-St-Josephs\CADD\SHEETS\VILLA_MARIA_V06_29TH_W_PROPOSED.dwg
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ITEM 682 SIGNAL HEADS WITH LED LAMPS						
SIGNAL HEAD NO.	SIGNAL HEAD TYPE	STATUS	12" SIGNAL INDICATION		VEH SIG SEC (EA)	PED SIG SEC (EA)
			BACKPLATES			
			3 SEC (EA)	4 SEC (EA)		
A,D,G,J	H4FYA	I		4	16	
B,C,E,F,H,I,K,L	H3	I	8		24	
W1,W2,W3,W4,W5,W6,W7,W8	PED	I				8
TOTAL (NEW)			8	4	40	8

MAST ARM ASSEMBLY SUMMARY					
POLE NUMBER	MAST ARM LENGTH (FT)	NO. OF HEADS	10' LUM ARM	FND. TYPE	FND. DEPTH (FT)
P1	44	3	Y	36-A	13
P2	N/A	N/A	N	24-A	6
P3	N/A	N/A	N	24-A	6
P4	48	3	Y	36-A	13
P5	N/A	N/A	N	24-A	6
P6	55	3	Y	48-A	22
P7	36	3	Y	36-A	13
P8	N/A	N/A	N	24-A	6

ITEM 624 GROUND BOX SUMMARY		
TYPE	EACH	STATUS
D WITH APRON	5	I



- NOTES:
- SEVERAL UTILITIES EXIST IN THE AREA AND ALL UTILITIES (OVERHEAD AND UNDERGROUND) SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING TEXAS 811, THE CITY OF BRYAN AT 979-209-5936, AND ALL AFFECTED UTILITY COMPANIES FOR UTILITY LOCATES PRIOR TO ANY DRILLING OR EXCAVATION ON THE PROJECT.
 - THE SERVICE PANEL SHALL BE TYPE D (120/240) 060 (NS)SS(E)PS(U) AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL THE SERVICE PANEL WITHIN 10 DAYS AFTER IT IS RECEIVED AND CONTACT BRYAN TEXAS UTILITIES TO OBTAIN POWER FOR THE PANEL (LEAD-TIMES CAN BE AS LONG AS 60-90 DAYS).
 - RED-SIGNAL INDICATION CONFIRMATION LIGHTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ON POLES P1, P4, P6, P7.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL BATTERY BACK-UP (BBU) SYSTEM AND HOUSING COMPATIBLE WITH SIEMENS M52 LYNIX CONTROLLER AND NEMA CABINET SIZE 6, BASE MOUNT, 16 POSITION, WITH TIMER, WITHOUT LOOP DETECTORS. PAYMENT WILL BE AT THE UNIT PRICE, IN ACCORDANCE WITH SPECIAL SPECIFICATION ITEM 6058 "BATTERY BACK-UP SYSTEM FOR SIGNAL CABINETS".
 - THE CONTRACTOR SHALL STAKE ALL SIGNAL POLE LOCATIONS, CONTROLLER FOUNDATION LOCATION, AND GROUND BOX LOCATIONS AFTER UTILITY LOCATES ARE FINALIZED. THE CITY MUST APPROVE THESE LOCATIONS PRIOR TO ANY DRILLING OR EXCAVATION ON THE PROJECT.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING EQUIPMENT ITEMS REQUIRED BY THE PROJECT. LABOR AND EQUIPMENT SUBSIDIARY TO ITEM 680 TO INSTALL THE FOLLOWING ITEMS:
 (A) SIGNAL CABINET AND ALL INTERNAL COMPONENTS
 (B) ITERIS VEHICLE IMAGE VEHICLE DETECTION SYSTEM (VIVDS) CAMERAS, CABLE, AND MOUNTING HARDWARE
 (C) INFRARED PREEMPTION DETECTORS, LEAD-IN CABLE, AND CABINET EQUIPMENT
 (D) STREET NAME SIGNS
 (E) SIEMENS M52 LYNIX SIGNAL CONTROLLER WITH INTERNALS ALREADY INSTALLED
 - THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LUMINARIES, WHICH SHALL BE 250 WATT EQUIVALENT LEDS WITH A CLEAR FLAT-GLASS INSERT.
 - THE CONTRACTOR SHALL NOTIFY EDDIE LAVATO AT 979-209-5900 AT LEAST 48 HOURS PRIOR TO THE SIGNAL TURN-ON. A SIGNAL TECHNICIAN FROM THE CITY SHALL BE PRESENT WHEN THE NEW SIGNAL IS PLACED INTO OPERATION.

LEGEND	
	PROPOSED PEDESTAL SERVICE
	PROPOSED TRAFFIC SIGNAL CONTROLLER ASSEMBLY
	PROPOSED SIGNAL POLE
	PROPOSED MAST ARM
	PROPOSED HORIZONTAL SIGNAL HEAD
	PROPOSED LUMINAIRE (LED)
	PROPOSED PEDESTRIAN SIGNAL HEAD NUMBER
	PROPOSED TYPE D GROUND BOX W/APRON
	PROPOSED PEDESTRIAN POLE
	PROPOSED INFRARED PREEMPTION DETECTOR
	PROPOSED VIVDS CAMERA
	PROPOSED CONDUIT AND NUMBER
	PROPOSED MAST ARM SIGN AND NUMBER
	PROPOSED VIVDS DETECTION ZONE AND PHASE LABEL
	PROPOSED CAMPBELL AGPS APS UNIT AND NUMBER

NO.	REVISIONS	DATE	BY

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KHA PROJECT	061271616
DATE	JUNE 2016
SCALE	AS SHOWN
DESIGNED BY	SRA
DRAWN BY	MEC
CHECKED BY	CBS

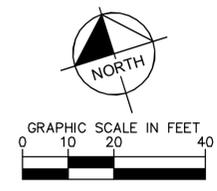
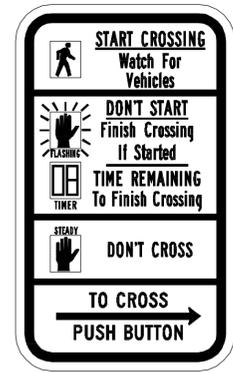
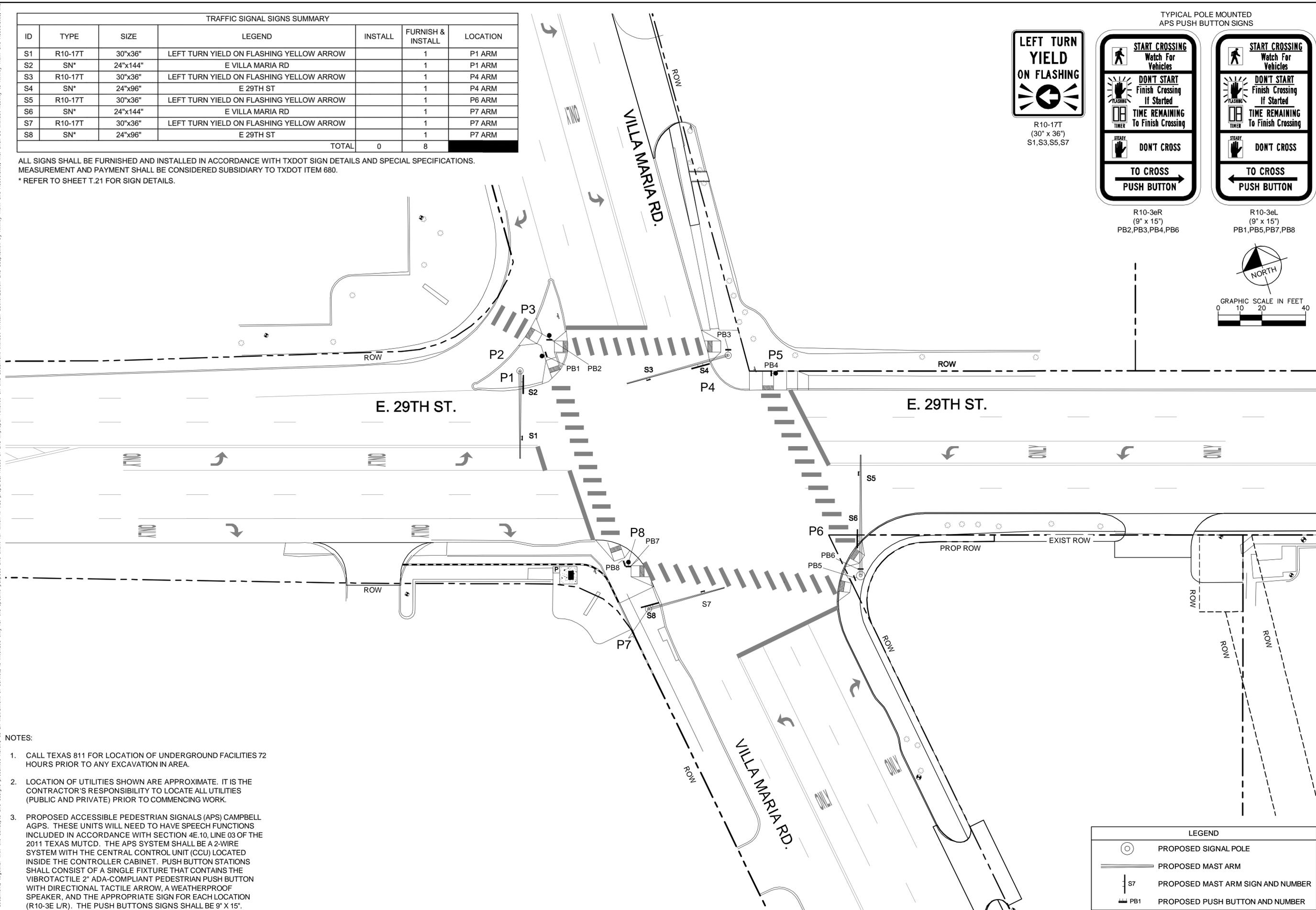
TRAFFIC SIGNAL
 E. 29TH ST. &
 VILLA MARIA RD.
 INTERSECTION LAYOUT

ST. JOSEPH'S AREA
 IMPROVEMENTS
 PREPARED FOR
 CITY OF BRYAN
 TEXAS

Plotted By: Clarkowski, Matt Sheet: Set: KHA Layout: Layout1 June 20, 2016 01:48:38pm K:\FTW\TPTO\061271616-Bryan-St-Josephs\KADD\SHEETS\VILLA-MARIA-ODE-29TH_VM_INSTALLATION.dwg
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TRAFFIC SIGNAL SIGNS SUMMARY						
ID	TYPE	SIZE	LEGEND	INSTALL	FURNISH & INSTALL	LOCATION
S1	R10-17T	30"x36"	LEFT TURN YIELD ON FLASHING YELLOW ARROW		1	P1 ARM
S2	SN*	24"x144"	E VILLA MARIA RD		1	P1 ARM
S3	R10-17T	30"x36"	LEFT TURN YIELD ON FLASHING YELLOW ARROW		1	P4 ARM
S4	SN*	24"x96"	E 29TH ST		1	P4 ARM
S5	R10-17T	30"x36"	LEFT TURN YIELD ON FLASHING YELLOW ARROW		1	P6 ARM
S6	SN*	24"x144"	E VILLA MARIA RD		1	P7 ARM
S7	R10-17T	30"x36"	LEFT TURN YIELD ON FLASHING YELLOW ARROW		1	P7 ARM
S8	SN*	24"x96"	E 29TH ST		1	P7 ARM
TOTAL				0	8	

ALL SIGNS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH TXDOT SIGN DETAILS AND SPECIAL SPECIFICATIONS.
 MEASUREMENT AND PAYMENT SHALL BE CONSIDERED SUBSIDIARY TO TXDOT ITEM 680.
 * REFER TO SHEET T.21 FOR SIGN DETAILS.



LEGEND	
	PROPOSED SIGNAL POLE
	PROPOSED MAST ARM
	PROPOSED MAST ARM SIGN AND NUMBER
	PROPOSED PUSH BUTTON AND NUMBER

- NOTES:
- CALL TEXAS 811 FOR LOCATION OF UNDERGROUND FACILITIES 72 HOURS PRIOR TO ANY EXCAVATION IN AREA.
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 - PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS (APS) CAMPBELL AGPS. THESE UNITS WILL NEED TO HAVE SPEECH FUNCTIONS INCLUDED IN ACCORDANCE WITH SECTION 4E.10, LINE 03 OF THE 2011 TEXAS MUTCD. THE APS SYSTEM SHALL BE A 2-WIRE SYSTEM WITH THE CENTRAL CONTROL UNIT (CCU) LOCATED INSIDE THE CONTROLLER CABINET. PUSH BUTTON STATIONS SHALL CONSIST OF A SINGLE FIXTURE THAT CONTAINS THE VIBROTACTILE 2" ADA-COMPLIANT PEDESTRIAN PUSH BUTTON WITH DIRECTIONAL TACTILE ARROW, A WEATHERPROOF SPEAKER, AND THE APPROPRIATE SIGN FOR EACH LOCATION (R10-3E L/R). THE PUSH BUTTONS SIGNS SHALL BE 9" X 15".

NO.	REVISIONS	DATE	BY

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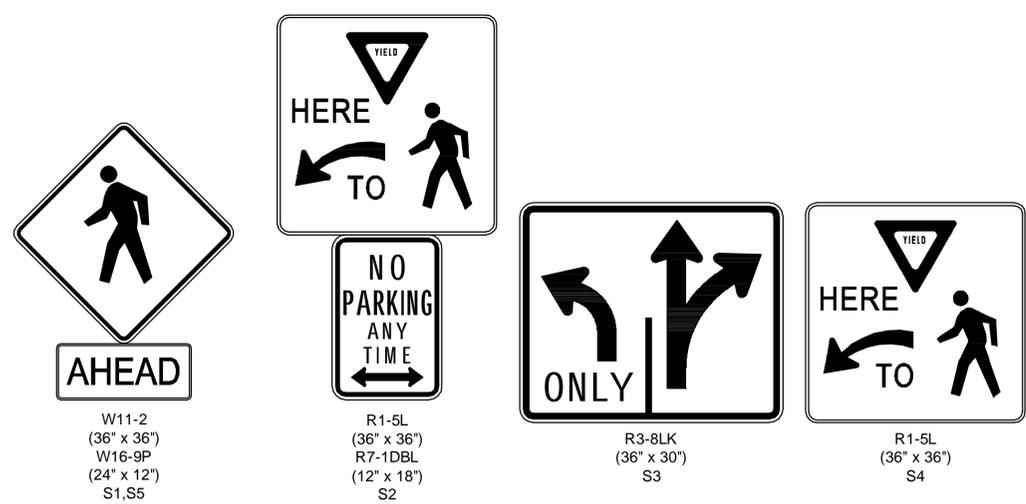
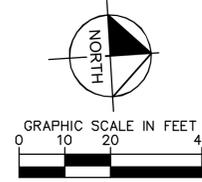
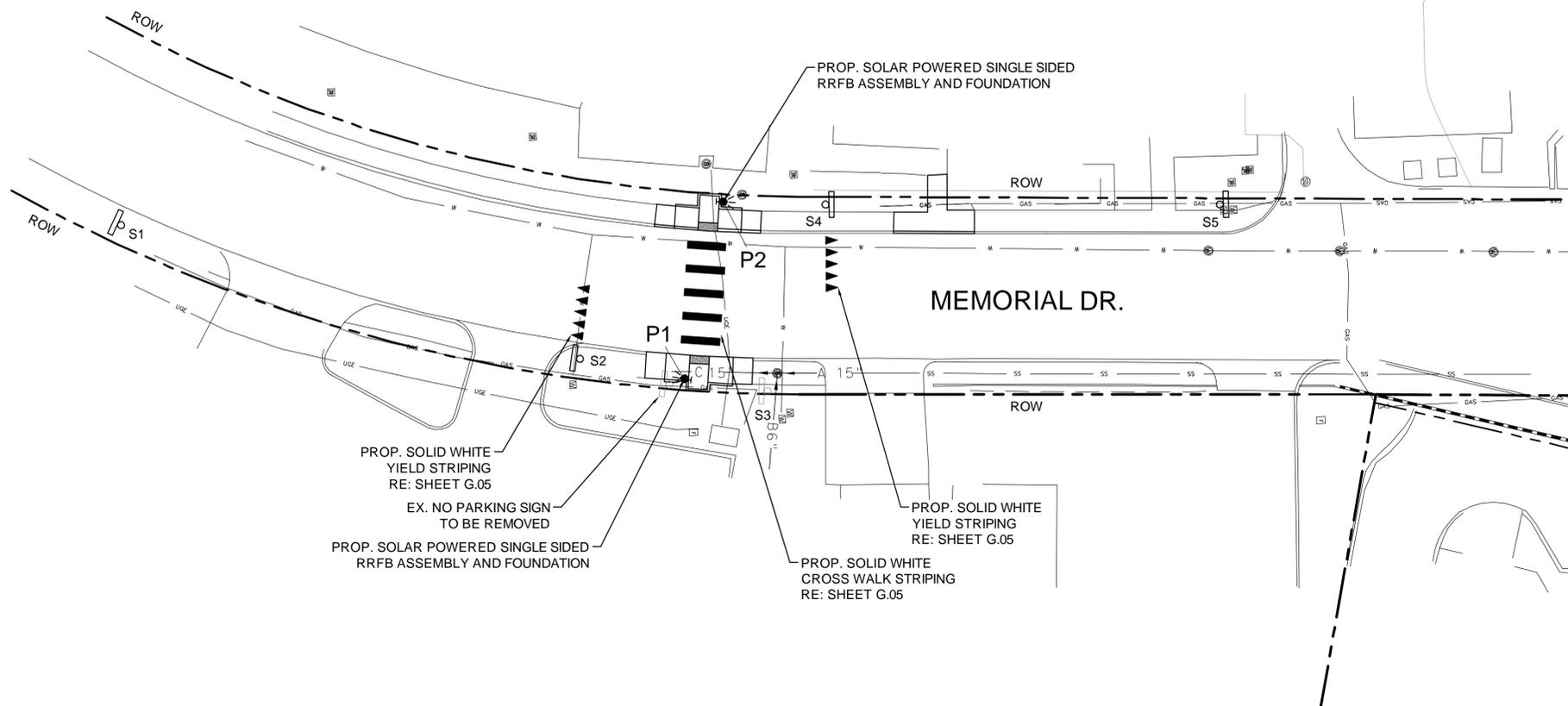
KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
061271616	JUNE 2016	AS SHOWN	SRA	MEC	CBS

TRAFFIC SIGNAL
 E. 29TH ST. &
 VILLA MARIA RD.
 SIGNS LAYOUT

ST. JOSEPH'S AREA
 IMPROVEMENTS
 PREPARED FOR
 CITY OF BRYAN
 TEXAS

Plotted By: Clarkowski, Matt Sheet: Set: Kha Layout: Layout1 June 20, 2016 01:50:18pm K:\FTW_IPTO\061271616-Bryan-St-Josephs\CADD\SHEETS\MEMORIAL\DOE_29TH_MEMORIAL_RRFB.dwg
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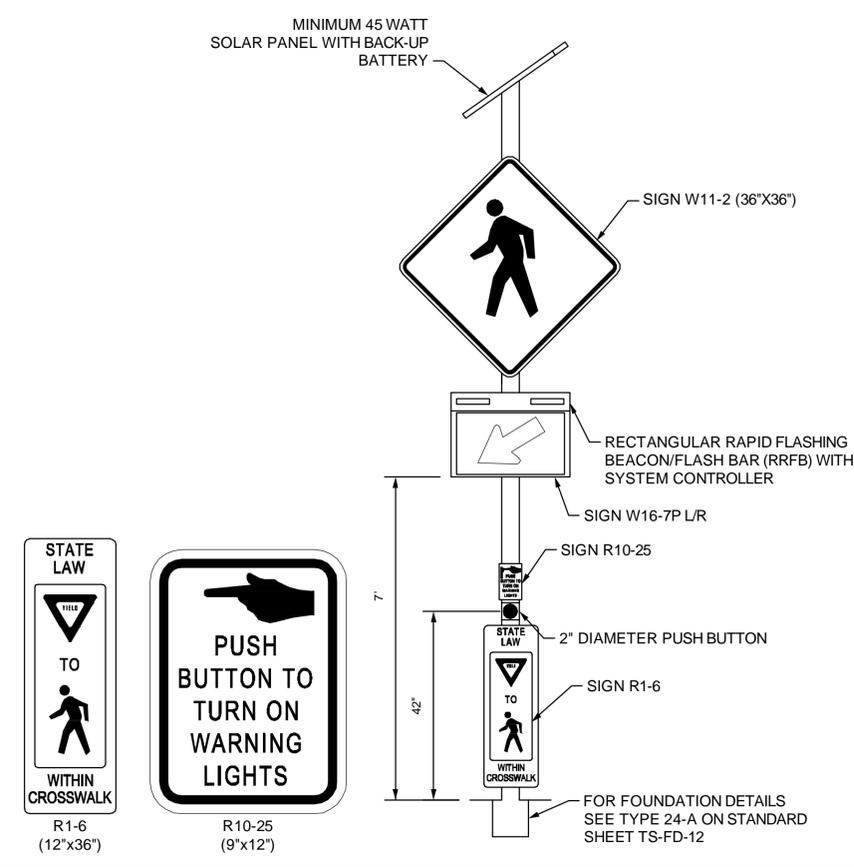
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- THE CONTRACTOR SHALL STAKE ALL RRFB ASSEMBLY LOCATIONS AFTER UTILITY LOCATES ARE FINALIZED. PEDESTRIAN PUSH BUTTONS SHALL MAINTAIN A MAXIMUM OF 10" OF REACH FROM THE SIDEWALK. THE CITY MUST APPROVE THESE LOCATIONS PRIOR TO ANY DRILLING OR EXCAVATION ON THE PROJECT.
- THIS WARNING LIGHT ASSEMBLY SHALL BE AN INTEGRATED ONE PUSH BUTTON PEDESTRIAN-ACTIVATED SYSTEM THAT CONTROLS THE RECTANGULAR RAPID FLASH BEACONS (RRFB).
- CONTRACTOR TO HAND DIG POLE FOUNDATIONS AND COORDINATE WITH THE CITY PRIOR TO INSTALLATIONS.
- CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR ALL MATERIALS AND FOUNDATIONS.
- SEE SOLAR POWERED PEDESTRIAN FLASHER SPECIFICATIONS FOR MATERIALS AND EQUIPMENT.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SIGNS AND SOLAR POWERED SINGLE SIDED RRFB ASSEMBLIES.



RRFB SIGNS SUMMARY							
ID	TYPE	SIZE	LEGEND	EXISTING	INSTALL	FURNISH & INSTALL	LOCATION
S1	W11-2	36"x36"	PEDESTRIAN CROSSING			1	GROUND MOUNT
	W16-9P	24"x12"	AHEAD				GROUND MOUNT
S2	R1-5L	36"x36"	YIELD HERE TO PEDESTRIANS			1	GROUND MOUNT
	R7-1DBL	12"x18"	NO PARKING ANY TIME				GROUND MOUNT
S3	R3-8LK	36"x36"	LANE USE	1			GROUND MOUNT
S4	R1-5L	36"x36"	YIELD HERE TO PEDESTRIANS			1	GROUND MOUNT
S5	W11-2	36"x36"	PEDESTRIAN CROSSING			1	GROUND MOUNT
	W16-9P	24"x12"	AHEAD				GROUND MOUNT
TOTAL				1	0	4	

RRFB POLE SUMMARY		
ITEMS	P1	P2
W11-2 (36"x36")	1	1
RRFB LIGHT BAR	1	1
R1-6 (12"x36")	1	1
W16-7PL (24"x12")	1	1
R10-25 (9"x12")	1	1
45W MIN. SOLAR PANEL	1	1
PEDESTRIAN PUSH BUTTON	1	1
BATTERY BACKUP (12V, 35 AMP MIN)	1	1
SYSTEM CONTROLLER	1	1
TYPE 24-A FOUNDATION	1	1

LEGEND	
	PROPOSED SOLAR POWERED SINGLE SIDED RRFB ASSEMBLY AND PUSH BUTTON
	PROPOSED GROUND MOUNT SIGN
	EXISTING GROUND MOUNT SIGN



ST. JOSEPH'S AREA IMPROVEMENTS PREPARED FOR CITY OF BRYAN TEXAS

RRFB DESIGN LAYOUT MEMORIAL DR.

SHEET NUMBER T.22

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