

1) DEMOLITION, INCLUDING REMOVAL OF SIDEWALK, EXISTING POLES, BASES, PULLBOXES, CONDUIT, CONDUCTOR AND ALL OTHER REMOVALS AND DEMOLITION NEEDED TO EFFECT THE DESIGN INTENT AS SHOWN ON THESE PLANS 2) INSTALLATION OF POLES, BASES, PULLBOXES, CONDUIT, AND CONDUCTOR 3) REPAIR OF SIDEWALK OR OTHER PAVEMENT REMOVED AS PART OF INSTALLATION

10000 15000 5000 GRAPHIC SCALE IN FEET

NO.	EAST/WEST	NORTH/SOUTH				
2.	36th Street South	Lewis Ave.				
5.	21st Street	Cincinnati Ave.				
6.	6th Street	Utica Ave.				
7.	21st Street	Columbia Ave.				
8.	31st Street	New Haven				
9.	9. 56th Street Peoria Ave.					
11.	3rd Street	Utica Ave.				
16.	Pine Street	Greenwood				
17.	15th Street	Delaware Ave.				
18.		Hudson				
19.	11th Street	Pittsburg Ave.				
22.	46th Street North	MLK				
25.	4th Place	73rd Ave. East				
27.	41st Street West	Southwest Blvd.				
28.	41st Street	73rd E Ave.				
31.	Admiral Blvd.	Utica Ave.				
32.	Admiral Blvd.	Peoria Ave.				
35.	1st Street	Guthrie				
36.	18th Street	Cincinnati Ave.				
37.	Apache Street	MLK				
39.	46th Street	Memorial Dr.				
40.	35th Street	Memorial Dr.				
41.	BA Expy WB Off Ramp	Harvard Ave.				
42.	BA Expy EB Off Ramp	Harvard Ave.				
45.	31st Street	Broken Arrow Expy WE				
46.	15th Street	Broken Arrow Expy				
48.	36th Street	Harvard Ave.				
50.	3rd Street	Peoria Ave.				
53.	14th Street	Utica Ave.				
54.	Edison Street	25th Ave. West				
55.	I-244	Memorial Dr.				
56.	Pine Street	Hwy 11 NB Ramps				
59.	1st Street	Boston Ave.				

FORE Y			TULSA T	RAFFIC SIG	GNAL LE	D UPGRAD	E PROJECT				
CALL C 811	DKIE			MAP O	FINTERS	ECTIONS					
5) à				CITY OF TULSA, OKLAHOMA							
HI.			STRE	EETS & STO	ORMWAT	ER DEPAR	TMENT				
西部			PLANS AN	ID ESTIMA	TES PRE	PARED BY					
					00						
1 4			1	J	ACO	65					
14				6 EXECUT	IVE CEN	BS TER DR. ST ANSAS 722					
	BY	DATE		6 EXECUT	IVE CEN	FER DR. ST					
	BY	DATE	1	6 EXECUT	IVE CEN CK, ARK	TER DR. ST ANSAS 722					
EVISION	BY	DATE	PLAN SCALE:	6 EXECUT	IVE CEN CK, ARK/	TER DR. ST ANSAS 722					
EVISION	BY	DATE	PLAN SCALE: 1'= 10,000 PROFILE SCALE:	6 EXECUT LITTLE ROO DRAWN DESIGNED	JB BV	TER DR. ST ANSAS 722					
EVISION		DATE	PLAN SCALE: 1'= 10,000	6 EXECUT LITTLE ROO DRAWN DESIGNED SURVEY	JB BV	TER DR. ST ANSAS 722					
EVISION		DATE	PLAN SCALE: 1'= 10,000' PROFILE SCALE: HORIZONTAL	6 EXECUT LITTLE ROO DRAWN DESIGNED SURVEY PROJ. MGR.	JB BV	TER DR. ST ANSAS 722					
	BY	DATE	PLAN SCALE: 1'= 10,000 PROFILE SCALE:	6 EXECUT LITTLE ROO DRAWN DESIGNED SURVEY PROJ. MGR. LEAD ENGR.	JB BV	TER DR. ST ANSAS 722					
EVISION	BY	DATE	PLAN SCALE: 1'= 10,000' PROFILE SCALE: HORIZONTAL	6 EXECUT LITTLE ROO DRAWN DESIGNED SURVEY PROJ. MGR. LEAD ENGR. FIELD ENGR.	IVE CEN CK, ARKA JB BV SH	TER DR. ST ANSAS 722					
	BY	DATE	PLAN SCALE: 1'= 10,000' PROFILE SCALE: HORIZONTAL	6 EXECUT ITTLE ROO DRAWN DESIGNED SURVEY PROJ MGR. LEAD ENGR. FIELD ENGR. RECOMENDED:	IVE CEN CK, ARKA JB BV SH	APPROVED					

SUMARY OF QUANTITIES

																2010	IARTU	IF QUAI													
			ITEM		OVAL		POLE FOOT				,		M LENGTH	-				PULLBOX		GIGNAL HE		PED	SIGN	s/w				IGNAL WI	₹E		
			PAY ITEM	POLE/BASE	SIDEWALK	24"	30"	36"	12'	18'	24'	30'	36'	42'	48'	54'	2 <sup>n</sup>	TYPE 2	#36	#64L	#33	P.B.	0/н	4º	1-C/#6	1-C/#12	2-C	4-C	7-C	16-C	20-C
		NORTH/SOUTH STREET	UNIT	EA	SY	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	EA	EA	EA	EA	EA	SF	SY			LF	٦J	LF	LF	LF
	36TH STREET SOUTH	LEWIS AVE		1	L		1			1	L						10	)	2	2		2 2	2	1						120	J
4	15TH STREET	PEORIA AVE		4	1	L	3	1				3	L				40	) 4	8	3	1	B 8	3	4							31
5	215T STREET	CINCINNATI AVE		2	2.3	3	2					2					20	)	6	5	4	4 4	÷	3.2							14
	6TH STREET	UTICA AVE		3	3.13	3	3			1	ι <u> </u>	2					35		6	5	6	6 f	5	4.13							35
7	21ST STREET	COLUMBIA AVE		4	ļ		4			2	2	1		1			45	5 4	8	3	8	B 8	3	1							4(
		NEW HAVEN		2			2			1	1	1					35	5 1	4	l l	4	4 4	ł		_						1
		PEORIA AVE		2	1		1	1		1	4	1 :					35		4		4	4 4	4								1
		UTICA		4			3	1				3 :	L .				50	) 4	8	3	8	B B	3	3							3
12	PINE STREET	YALE AVE		4			3	1				3 :	L.				50	) 4	8	3	8	B 8	3								3
		UTICA AVE SOUTH		3	ł		2	1				1 :					50	) 3	5	)	4	4 4	1								3
19	46TH STREET NORTH	MINGO ROAD		4				1 3	3				:	1	1 1	1	. 50	) 4	9	2	2 8	B 8	3								3
16	PINE STREET	GREENWOOD		2				2				1	2				30	) 2	4		4	4 4	H	1							2
17	15TH STREET	DELAWARE AVE.		4		1	4					4					45	5 4	8		8	8 8	3	2					$\square$		2
18	31ST STREET	HUDSON AVE		4			2	2	1			2 2	2	1			40	) 4	8		1	3 8	1								3
19	11TH STREET	PITTSBURG AVE		4			4		1	2	!	2		1			50	) 4	8	1	1	3 8		3							3
20	CHARLES PAGE	49TH AVE WEST		4		1	3	1	1	° 3	1	1		1			55	5 3	8		1	3 8		2							2
22	46TH STREET NORTH	MLK		4				2 2	2		1	1 1		1	2		40	4	8		8	3 8		2							2
23	41ST STREET	LEWIS AVE		4				3 1	l T				1	3 :	1		45	,	8	4	1 8	3 8		1							2
25	4TH PLACE	73RD AVE EAST		4			4	1		1		3	1	1			50	) 4	8		8	3 8									3
27	41ST STREET WEST	SOUTHWEST BLVD		4			2	2		1		1 2	1		1		40		8	1	8	3 8		3							3
28	41ST STREET	74TH AVE EAST		4			4		1	1		2	1				40		6	1	4	4 4		1							3
31	ADMIRAL BLVD	UTICA AVE NORTH		2			2					1		1			25	1	3		2	2 2	4	2							1
32	ADMIRAL BLVD	PEORIA AVE		1			1	1			1		1 1	L			15	1	2		1	1 1	. 4	1							
35	1ST STREET	GUTHRIE		2			2					2					30	2	4												2
36	18TH STREET	CINCINNATI AVE		4			3	1		1		2 1					50	4	8		8	3 8		3							3
37	APACHE STREET	MLK		2			1	1			1	L I	1	ī –			20	2	4		4	4		1					$ \rightarrow $		1
39	46TH STREET	MEMORIAL DR		1				1				1		1			10	1	2		2	2 2									
40	35TH STREET	MEMORIAL DR		2			1	1	1		:	1					25		4		3	3 3									2
41	BA EXPY	HARVARD AVE NORTH		3			1	1			:	1	1	1			25	1	5	1				3							2
42	BA EXPY	HARVARD AVE SOUTH		3			3		1			2		1			40	÷ •	8			1		4					+		2
45	31ST STREET	BA EXPY WESTBOUND		2			1	1	1	1		2			1		20	2	6				1 1	1							2
46		BROKEN ARROW EXPY		3			2	1				2	1	1			15	+ +	7					4					$ \rightarrow $	-	1
48		HARVARD AVE		3			2	1				2 1		1	1		35	2	6		6	6							$ \rightarrow $		3
		PEORIA AVE		3			2	1				2 1	<u> </u>	1			40		6		6	6		3				<u> </u>	$ \longrightarrow $	-+	3
		PITTSBURG AVE		4			3	1				1	1	1			50		8			2		3		<u>+</u> +			$ \rightarrow $		3
		UTICA AVE SOUTH END		4			1	2 1				1	1	1 1	t t		45		6	1				2					[]		4
		25TH AVE WEST		3			1	3	1			1 1	<u> </u>	<u> </u>	1		40	-	6	-		6		1							3
		MEMORIAL DR		1			1	1			1	1 -		1	1 1		30	-	2	1	t	1	}───┤							<b> </b>	1
		HWY 11 NB RAMPS		2			1	1					1	1	+		35		A		·								<del> </del>		2
		BOULDER AVE		A			4	1			<u> </u>	·		<u> </u>	+ +		45	+			9		1	A					<del> </del>	375	-
		BOSTON AVE		7			2	+				1	<u> </u>	1	+ +		25							7					<del> </del>	140	
		CHEYENNEAVE		L A			1	1			-	1		1	++		50		1				1			+ +			<b>┌──</b> ┥	290	







10816 EXECUTIVE CENTER DR. STE. 300 LITTLE ROCK, ARKANSAS 72211

DESIGN BLV DRAWN JAB CHECKED BLV OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION ENVIRONMENTAL MITIGATION NOTES APPROVED BLV SQUAD Jacobs PROJECT NO. \_\_\_\_\_\_ 23708(06) SHEET NO. \_\_\_\_\_ 3

TRAFFIC SIGNAL PAY ITEMS NOTES	TRAFFIC SIGNAL PAY ITEMS	NOTES CONTINUED				DELETED PLAN NOTE	6/9/2017
5 SHOP DRAWINGS FOR ATTACHMENT SIGNW TO LIGHT ANO/OR SIGNAL POLES AND MAST ARMS SHALL BE SUBMITTED TO THE	258 THIS PAY ITEM SHALL INCLUDE 242 OF THE 3-SECTION BACKPLATE		PACKPLATES.			REVISED PLAN NOTE	
TRAFFIC ENGINEER FOR APPROVAL BEFORE FABRICATION. NO HOLES SHALL BE PERMITTED IN ANY LIGHT AND/OR SIGNAL POLE	ALL BACKPLATES PROVIDED ON THIS PROJECT SHALL BE ALUMINU						
OR MAST ARM. THE PRICE BID SHALL INCLUDE ALL MATERIALS, LABOR, HARDWARE, AND INCIDENTALS NECESSARY TO COMPLETE	BLACK FINISH (POWDER COATED, BAKED ENAMEL, OR OTHER STY	LE, AS APPROVED BY THE TRAFFIC ENGINEER)	WITH LOUVERS.			🛆 ADDED PLAN NOTE	6/9/2017
THE WORK AS DIRECTED.	ALL BACKPLATES INSTALLED ON SIGNAL HEADS AT THE BROKEN A					ADDED CONES	6/9/2017
O QUANTITIES ARE BASED ON MINIMUM RUN LENGTHS BETWEEN THE SIGNAL/PEDESTAL POLE AND THE CONTROLLER CABINET.	FLUORESCENT YELLOW RETRO-REFLECTIVE BORDER ON THE FROM						
02 CONTROLLER AND SERVICE POLE TO BE FIELD LOCATED WITH APPROVAL BY THE ENGINEER.	INTERCHANGE, THE RETRO-REFLECTIVE BORDER MUST BY FACTOR						
03 TRAFFIC SIGNAL HEAD FACES ARE TO BE COVERED FROM THE TIME THEY ARE INSTALLED UNTIL PLACED IN FLASHING OR FULL OPERATION. COVERING THE LENSES ONLY IS NOT PERMISSIBLE.	IX (9) RETRO-REFLECTIVE SHEETING MAY BE SUBSTITUTED ONLY W						
DERATION. COVERING THE LENSES UNLT IS NOT PERMISSIBLE.	MUST FOLLOW THE SHEETING MANUFACTURER'S RECOMMENDA' DISCLOSE WHAT PROCESS WAS USED TO PREPARE THE BACKPLAT			0301	TRAFFIC	PAY ITEMS	
OF PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITIES, SEE CALA HOMA STANDARD SPECIFICATIONS FOR HIGHWAY. CONSTRUCTION, SECTION 109, DIGD PLAN QUANTITIES, -	SHEETING SHALL NOT BE IN CONTACT WITH THE LOUVERS. ALL O						Linux La
DS SEE CITY OF TULSA STANDARDS FOR CONDUIT INSTALLATION.	SHEETING.			ITEM NO. BAMS DESCRIPTIO			
THIS PAY ITEM INCLUDES THE INSTALLATION OF TRAFFIC SIGNAL HEADS. INCLUDED IN THIS PAY ITEM IS ALL EQUIPMENT;	259 ETHERNET CALBE USED FOR WIRELESS SIGNAL COMMUNICATION	S SHALL BE INDUSTRIAL GRADE SHIELDED CAT S	E, REATED FOR		1. 40 PLASTIC CONDUCT TRENCHED	COT 602 (201) ( <del>204)</del> (205) COT 602 (201) ( <del>204)</del> (205)	
SETUP/INSTALLATION EQUIPMENT, MOUNTS, BRACKETS, HARDWARE, AND ANY OTHER APPURTENANCES.	OUTDOOR USE, SHIELDING SHALL BE RISER RATED, POLYDLEFIN IN				INSITY PE PIPE-BORED	COT 602 (201) (204) (205)(260)	LF LF
77 QUANTITY SHOWN IS FOR CITY OF TULSA STANDARD SIZE II PULL BOX.	RESISTANT PVC JACKET. CAT SE CALBE SHALL BE INSTALLED FROM			802 (C) 8553 3" HIGH DE		COT 602 (201) (204) (205)(260)	LF I
28 QUANTITY SHOWN IS FOR CITY OF TULSA STANDARD SIZE III PULL BOX.	BESTORED IN THE HAND HOLE OF THE SIGNAL POLE AND IN PULL	BOXES, USE CAUTION WHEN WORKING WITH	CATSECABLENOT	803 (A) 8065 PULL BOX (		COT 601 (204) (207)	EA
9 QUANTITY SHOWN IS FOR CITY OF TULSA STANDARD SIZE I PULL BOX.	TO BENC OR CRIMP THE CABLE.			803 (A) 8066 PULLBOX (		COT 601 (204) (208)(260)	EA
SEE CITY OF TULSA STANDARDS FOR ELECTRICAL CONDUCTOR WIRING DETAILS TO LUMINAIRE,	260 ESTIMATED QUANTITY TO BE USED ONLY AS DIRECTED BY THE ENG			803 (A) 8067 PULL BOX (		COT 501 (204) (209)(260)	EA
1 SEECITY OF TULSA STANDARDS FOR TRAFFIC SIGNAL SERVICE POLE DETAIL.	261 THIS PAY ITME INCLUDES THREE FULL VIDEO DETECTION SYSTEMS BE USED ONLY AS DIRECTED BY THE ENGINEER. EACH VIDEO DETE			804 (A) 2915 STRUCTUR	AL CONCRETE	(220)	
2 QUANTITY INCLUDES CITY OF TULSA STANDARD 22'9" TRAFFIC SIGNAL POLE W/12' MAST ARM 1 UNIT	ANDA 4-CHANNEL CARD MEETING THE REQUIREMENTS OF COT 6.		000 9 0901000	804 (B) 2916 REINFORCE	ING STEEL	(220)	1.0
QUANTITY INCLUDES CITY OF TULSA STANDARD 22'9" TRAFFIC SIGNAL POLE W/18' MAST ARM 4 UNITS	262 ONE SIDEWALK PANEL ON EACH SIDE OF DRIVEWAYS SHALL BE A		IVEWAY	805 (A) 8726 (PL) REMO	VAL OF TRAFFIC SIGNAL EQUIPMENT	(233)	<u> </u>
QUANTITY INCLUDES CITY OF TULSA STANDARD 22'9" TRAFFIC SIGNAL POLE W/24' MAST ARM.	THICKNESS, WHICHEVER IS GREATER. NO ADDITIONAL PAYMENT				RESET TRAFFIC SIGNAL EQUIPMENT		<u> </u>
QUANTITY INCLUDES CITY OF TULSA STANDARD 22' 9" TRAFFIC SIGNAL POLE W/30' MAST ARM.	THROUGH THIS AREA.				TS MST. ARM (G.STL.)	(COT 603) (COT 617) (212) (213)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD 22' 9" TRAFFIC SIGNAL POLE W/36' MAST ARM.	263 ALL PLASTIC PAVEMENT MARKINGS SHALL BE EXTRUDED-APPLIED	THERMOPLASTIC. MECHANICALLY APPLIED PI	REFORMED		TS MST. ARM (G.STL)	(COT 603) (COT 617) (214)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD 22'9" TRAFFIC SIGNAL POLE W/42'MAST ARM.	PLASTIC TAPE("COLD TAPE") WILL NOT BE ACCEPTED. THERMOP				TS MST. ARM (G.STL.)	(COT 603) (COT 617) (215)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD 22'9" TRAFFIC SIGNAL POLE W/48'MAST ARM. • 1 UNIT	THE AMNIENT TEMPERATURE EXCEEDS 49"F FOR ALL OF THE SIX H				TSMST.ARM(G.STL)	(COT 503) (COT 617) (216)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD 22'9" TRAFFICSIGNAL POLE W/54' MAST ARM 1 UNIT	ARE BELOW 1S MPH AT THE TIME OF APPLICATION. PRICE BIDTO		RUCTION LANE		TS MST, ARM (G.STL)	(COT 603) (COT 617) (217)	EA EA
THIS PAY ITEM INCLUDES THE CITY OF TULSA STANDARD 83 - 24" DIA. SIGNAL FOOTING 5-12/24, 35 - 30" DIA. SIGNAL FOOTING 5-	MARKING/SEPARATION.	L, X,			TS MST. ARM (G.STL)	- (COT 603) (COT 617) (218) (219)	EA
30/36, 7 - 36" DIA. SIGNAL FOOTING 5-42/54.	0300 TRAFFIC CON	VTROL		805 (8) 8894 MTG. HT. T B10 (A) 3118 SERVICE PO	S PEO. POLE (G. STL.)	(COT617) (235) (COT 607) (260)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD PUSH BUTTON AND SIGN.	ITEM NO. 8AMS DESCRIPTION	الأرانية المستحدة بالمتحدث والمستجد والمستحد والمتحد والمستحد والمس	UNIT TOTAL		ELECTRICAL CONDUCTOR	(COT 611) (240)	LF
QUANTITY INCLUDES CITY OF TULSA STANDARD THREE SECTION HEAD - #36.	880 (8) 8818 CONSTRUCTION SIGNS OTO 6.25 SF		SD 2630		ELECTRICAL CONDUCTOR	(COT 611) (240)	- UF
QUANTITY INCLUDES CITY OF TULSA STANDARD FIVE SECTION HEAD - #64L.	880 (8) 8821 CONSTRUCTION SIGNS 6.26 TO 15.99 SF		SD 3440		GNAL CONTROLLER ASSEMBLY	(COT610(A-C))(202)(237)(260)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD ICC PEDESTRIAN HEAD - #33,	880 (8) 8824 CONSTRUCTION SIGNS 16.00 TO 32,995F	1	SD 5260		TION SYSTEM (VIDEO)	(COT 620) (242) (261)	LS I
QUANTITY INCLUDES CITY OF TULSA STANDARD 5#24 TRAFFIC SIGNAL ELECTRICAL CABLE.	B80(C) 8842 BARRICADES (TYPE III)		SD 2630	828 (A) 8142 VEHICLE LC		(COT 604) (243) (260)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD 4#24 TRAFFIC SIGNAL ELECTRICAL CABLE.	880 (E) 8860 WARNING LIGHTS (TYPE A)		SD 540	828 (B) 8136 LOOP DETE	ECTOR WIRE	(COT 604) (244) (260)	เ
QUANTITY INCLUDES CITY OF TULSA STANDARD WHITE #12 TRAFFIC SIGNAL ELECTRICAL CABLE.	880 (E) 8872 WARNINGLIGHTS (TYPE C)		SD 540	830 8000 PEDESTRIA	N PUSH BUTTON	COT 613 (221) (236)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD GREEN #6TRAFFIC SIGNAL ELECTRICAL CABLE.	880 (F) _8878 DRUMS		SD 540	831 8231 1WAY3SEC	ADJ.SIG.HD.S-5	COT 614 (203) (206) (222)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD GREEN #12 TRAFFIC SIGNAL ELECTRICAL CABLE.	880 (G) 8890 CHANNELIZER CONES 🔬		SD 21040	831 8286 1WAYSSEC		COT 614 (203) (206) (223)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD 15#14 TRAFFIC SIGNAL ELECTRICAL CABLE.	880(I) 8902 FLAGGER		SD 58		ADJ.PED.SIG.HD.5-20	COT 614 (203) (206) (224)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD 20#14 TRAFFIC SIGNAL ELECTRICAL CABLE.	880 (N) 0100 (SP)TEMPORARY TRAFFIC SIGNAL SPAN WIRE EQUIP	MENT (260)	LS 1	833 3030 BACKPLAT		(258)	EA
QUANTITY INCLUDES CITY OF TULSA STANDARD COMMUNICATIONS CABLE, 12 PAIR 24 AWG, GEL FILLED (250LF)	0640 CONSTRUC	TION		834 (A) 8207 5/C TRAF.S		(COT 611) [245]	LF
SEE CITY OF TULSA STANDARD 625 REMOVAL OF TRAFFIC ITEMS.	ITEM ND. BAMS DESCRIPTION	NOTES	UNIT TOTAL	834 (A) 8208 7/CTRAF.S 834 (A) 8209 9/CTRAF.S		(COT 611) (245) (COT 611) (247)	
QUANTITY INCLUDES CITY OF TULSA STANDARD COMMUNICATIONS CABLE, 6 PAIR 24 AWG, GEL FILLED (250LF) NEW PEDESTAL POLES, SLIP FITTERS, MOUNTING BRACKETS, DCTAGON BASES, SIGNAL HEAD MOUNTING HARDWARE, AND	641 1399 MOBILIZATION		1 کا	834 (A) 8210 12/CTRAF.		(COT 611) (248)	1 11 1
OTHER INCIDENTAL FOLES, SUP FITTERS, MOUNTING BRICKETS, DUTAGON BASES, SIGNAL HEAD MOUNTING HARDWARE, AND OTHER INCIDENTALS NECESSARY FOR MOUNTING THE SIGNAL HEADS ON THE PEDESTAL POLES SHALL BE INCLUDED AS PART OF	· · · · · · · · · · · · · · · · · · ·			834 (A) 8211 15/C TRAF.		(COT 607) (COT 611) (201) (204) (23	
THIS PAY ITEM AND SHALL BE POWDER COATED WITH THE STANDARD POWDER COAT USED BY THE CITY OF TULSA IN THE	0100 ROADW.	ΑΥ		834 (A) 8212 18/C TRAF		(COT 611) (249)	
DOWNTOWN DISTRICT. THE SPECIFCATIONS FOR THE COLAR AND TYPE OF POWDER COAT REQUIRED BY THE CITY SHALL BE				834 (A) 8213 21/C TRAF.		(COT 607) (COT 611) (201) (204) (23	31) LF
FURNISHED BY THE TRAFFIC ENGINEER. FOR DOWNTOWN SIGNALS ONLY	ITEM NO. BAMS DESCRIPTION		UNIT TOTAL		ED LOOP DETECTOR LEAD-IN CABLE	(COT 611) (250)	U
IN ORDER TO BE COMPATIBLE WITH EXISTING PUSH BUTTON SYSTEMS, PUSH BUTTONS SHALL BE NON-AUDIBLEPUSH BUTTONS	610 (A) 0602 4" CONCRETE SIDEWALK	(238)(262)	SY 200	834 (8) 8225 4/C SHIELD	ED LOOP DETECTOR LEAD-IN CABLE	(COT 611) (251)	LF
WITH A TWO-WIRE SYSTEM, PELCO SE-2039-08-1-P29 OR APPROVED EQUAL	610(I) 4510 TACTILE WARNING DEVICE - NEW	(260)	SF 20		RGROUN OCOMMUNICATIONS CABL	E (COT 611) (232) (234) (260)	망
SEE CITY OF TULSA STANDARDS DETAILS. THE TRAFFIC SIGNAL CONTROLLER PROVIDED SHALL BE A 170/E IN A 332 SIGNAL	610(1) 4615 TACTILE WARNING DEVICE - RETROFIT	(260)	SF 20		DUND COMMUNICATION CABLE	(COT 611) (COT 622)(259) (260)	비
CABINET. THE CONTRACTOR SHALL DELIVER THE CABINET TO THE COT TRAFFIC OPERATIONS DIVISION FOR WIRING AND SETUP	0302 TRAFFIC PAY ITEMS - /	ADD ALTERNATE 💥 🖄		840 (B) 8593 E.P.S. OPTI	and the second s	(COT 606) (252) (260)	EA
PROIR TO INSTALLATION IN THE FIELD. COT WILL NOTIFY THE CONTRACTOR WHEN THE CABINET IS READY FOR INSTALLATION.	ITEM NO. BAMS DESCRIPTION	NOTES	UNIT TOTAL		ICAL DETECTOR CABLE	(COT 606) [260)	<u> </u>
THIS PAY ITEM SHALL ALSO INCLUDE THE CABINET BASE, APRON, AND GUARD PER COT 612.	831 8231 1WAY3SEC. ADJ.SIG.HD.S-6	COT 614 (203) (206) (222)	EA 150	850 (A) 8120 SHEET ALU		(COT 608) (253) (260)	SF SF
THIS PAYITEM INCLUDES WHEELCHAIR RAMPS, CURB REMOVAL, SAWING PAVEMENT, AND ALL OTHER MISCELLANEOUS WORK	831 8286 1WAYSSEC.ADJ.SIG.HO.5-19	COT 614 (203) (206) (223)	EA 84		MOUNTED SIGN (ALUMINUM)	(COT608) (254) (260) (COT 608) (255) (260)	<u>- 57-</u> 1-1-1
NEEDED TO COMPLETE RAMP AND SIDEWALK REPAIRS.	833 303D BACKPLATE		EA 234	851(C) 8321 13/4" SQU 851(C) 8324 2" SQUARE		(COT 608) (255) (260) (COT 608) (255) (260)	
THIS PAY ITEM SHALL INCLUDE REMOVAL AND RESETTING OF AN EXISTING CABINET ON A NEW FOUNDATION PER COTY 524 AND	TERE PROPERTY INCLUDE TRANSPORT	1.		851(C) 8324 2 SQUARE		(COT 608) (250) (COT 608) (257) (260)	- UF
SHALL ALSO INCLUDE THE CABINET BASE, APRON, AND GUARD PER COT 612. ALL LABOR TO REESTABLISH THE CONNECTIONS TO THE EXISTING WIRING AND SIGNAL SYSTEM SHALL BE INCLUDED.	DEMA, IEADI AND BACKARID CO. INTERNETING. INDA. (2011) AN INST Amon AFTER LOCATIONS LINES INLOW. THIS INCLUSION AND				(RIPE (PLASTIC) (4" WIDE)	[260] [263]	- ur l
REEN #6 THHN ELECTRICAL CONDUCTOR	NA LUM & COM, IX LATERAL AND THE MERINE IN MERINE				(RIPE (PLASTIC) (ARROWS)	(260)(263)	EA
XALE VIE FINAN ELECTRICAL CONDUCTOR WITH GROUND	MARTI, MARTINE MARTINE, ANT. MERINDARY KANDIANAN AND Kandi Per Menandika dan Berka, ang berterak dikertakan				IRIPE (PLASTIC) (WORDS)	(260)(263)	EA
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# NOTES

## SCOPE OF WORK

THE WORK AS DETAILED BY THESE PLANS INCLUDED THE FOLLOWING ITEMS: 1) DEMOLTION, INCLUDING REMOVAL OF

DEWALK, EDISTING POLES, BASES, PULLICHES, CONDUIT, CONDUCTOR AND ALL CITHERTRENOVALS AND DEMOLITION NEEDED TO EFFECT THE LESION INTENT AS SHOWN ON THESE PLANS

2) INSTALLATION OF POLES, BASIS, PLALBOXES, CONDUIT, AND CONDUCTOR 3) REPAIR OF SIDEWALK OR OTHER PROVEMENT REMOVED AS PART OF INSTALLATION

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Michael III Informational Information Contact Information Infor

THE STRUCTURAL DESIGN OF ALL POLES, MAST ARMS, NIGH-MAST POLES, AND OTHER SUPPORTS FOR SIGNS, LIMINARES, AND SIGNALS AS WELL AS THEIR CONNECTIONS SHALL BE IN ACCORDANCE WITH THE 2009 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR INGHWAY SIGNS, LUMINAIRES, AND TRAFFIC BIGNALS. THE MANAFACTURER SHALL ENSURE THE POLLOWING ARE APPLIED TO THE DESIGN:

THE MININUM DESGIN WIND SPEED AND DESIGN LIFE AS REQUIRED IN THE AASHTO SPECIFICATIONS:

THE CALCULATED STRESSES AND FORCES FROM THE DESIGN LOADINGS DO NOT EXCEED THOSE REQUIRED IN THEAABHTO BRECETICATIONS;

ALL MEMORYS ARE AT LEAST THE MINIAUM THICKNESS AS REQUIRED IN THE AASHTO REPORT ATIONS:

LANNARE MART ARMS, POLES, AND ANOHOR BOLTS BHALL BE DESIGNED TO MEET ALL. RECURRENTS OF THE CITY OF THE AND AND SOS FOR SIGNAL POLE FOOTINGS AND SIT FOR SIGNAL POLES AND MAST ATMIS; AND

UNLESS SITE SPECIFIC GEOTECHNICAL DATA IS AVAILABLE, FOUNDATION BHALL BE DESCRED UTILIZING THESE PARAMETERS; SHEAR STRENGTH OF THE CONSTRUCTS SOIL (C) OF 500 PSN ANOLE OF INTERNAL PROTION (I) OF 22 DEGREES, AND EFFECTIVE UNIT WEIGHT OF SOL () OF 120 PGF.

## COT BOT BIONAL BERVICE:

THE INSTALLED BERVIOE SHALL BE FULLY OPERATIONAL AND ANY COETS CHARGED BY THE UTILITY COMPANY FOR THE BERVICE INSTALLATION BHALL BE PARD BY THE CONTRACTOR AND IS INCLUDED IN THIS PAY ITEM.

## COT 614 LED TRAFFIG SKINAL HEADS:

HENGES SHALL BE LOCATED TO THE LIFT SIDE FOR 3-SECTION SIGNAL HEADS AND TOMAND THE OUTSIDE EDGES FOR A 5-SECTION BRANA, HEAD.

## COT 617 TRAFFIC BIGNAL MAST APARS & POLES WALKMAARE EXTENSIONS:

THE CONTRACTOR BHALL RICK UP THE LUMINARIE(8) AND RELATED EQUIPMENT (2004) HPG LUMINARIE, 2004 HPG LAMP, 1204 PHOTO CIELL, INLINE PUBE HOLDER, AND EAMP KTK PUBE) AT THE AEPPED WAREHOUSE ON 15TH STREET NEAR PULTON AVENUE

## COT #22 WHILEBS TRAFFIC BIGNAL COMMUNICATIONS SYSTEM:

### COT 628 REMOVAL OF TRAFFIC ITEMS:

THE PAYITEM INCLUDES THE KEMOWALAND DELIVERY OF THE FOLLOWING EQUIPMENT TO THE GITY OF TUEBA TRAFFIC OF FRATCHS SHOP AT 440 W. 23RD, WHICH IS TO REMAIN THE PROPERTY OF THE CITY OF TUEBA:

STREET.

INTERSECTIONS MAY BE CONTROLLED WITH MULTI-WAY STOP SIGNS DURING SIGNAL CONSTRUCTION ACTIVITIES WHICH REQUIRE THE POWER TO BE DISCONNECTED OR WHEN CABLES ARE BEING REPLACED. THE TIME THAT THE SIGNALS ARE OUT OF SERVICE IS TO BE MINIMIZED TO THE EXTENT POSSIBLE AND ONLY WITH APPROVAL OF THE TRAFFIC ENGINEER. THE CITYS INTENT IS TO PROVIDE TRAFFIC SIGNAL CONTROL THROUGHOUT THE CONSTRUCTION PROJECT AT ALL INTERSECTIONS, EXCEPT FOR BRIEF PERIODS OF TIME (NOT TO EXCEED 24 HOURS). TEMPORARY SIGNALS ARE INCLUDED AS A CONTINGENCY AND MAY BE USED ONLY AT THE DISCRETION OF THE TRAFFIC ENGINEER. IN THE EVENT THAT POWER CANNOT BE MAINTAINED TO THE SIGNAL, THE CONTRACTOR SHALL PLACE MULTI-WAY STOP SIGNS IN ACCORDANCE WITH THE MUTCO AND WITH THE APPROVAL OF THE TRAFFIC ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LABOR AND INCIDENTALS NECESSARY TO MAKE CONNECTIONS FROM NEWLY INSTALLED EQUIPMENT TO OLD EQUIPMENT IN ORDER TO MAKE THE SIGNAL FUNCTIONAL AGAIN. WHERE A PAVEME NT MARKING HAS BEEN ONLY PARTIALLY REMOVED, IT SHALL BE REPLACED IN ITS ENTIRETY. INSTALLATION OF PAVEMENT MARKINGS INCLUDES THE SCARIFYING OF THE PAVEMENT SURFACE AND THE APPLICATION OF THE APPROPRIATE QUALITY AND QUANTITY OF PRIMÉR

ALL CABLES IN DISTURBED CONDUITS ARE TO BE REMOVED AND REPLACED WITH NEW CABLE. CABLES IN ABANDONED CONDUITS ARE TO BE REMOVED, ALL REMOVED CABLE SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGGERS, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD EN GINEERING REPRESENTATIVE.

RQNARENKEEDENKIIGINAAF AFMLEABLEVSDUH SPANDAMOSIAAB BEECHKEA RUKHEAHEUKFRALLASA GRABAREVAROVIDU RAAKA OSEUFFUHFI CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING OF WORK. PRICE BID SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE, AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL REQUIRED FOR COMPLETION OF THE PROJECT.

HOLES IN THE SIDEWALK RESULTING FROM THE REMOVAL OF SIGN POSTS OR TRAFFIC SIGNAL EQUIPMENT SHALL BE NEATLY REPAIRED TO PREVENT TRIPPING HAZARDS, ALL CUTS IN THE SIDEWALK SHALL BE SAWED IN ORDER TO PROVIDE CLEAN EDGES FOR SIDEWALK REPAIRS.

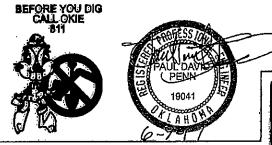
THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FOR ELECTRICAL INSPECTION ON ALL SIGNAL AND LIGHTING WORK PER COT SPECIFICATION 628 TRAFFIC SIGNAL CONSTRUCTION AND OPERATION. ADDRESSING FOR THE PERMIT SHALL BE PROVIDED BY THE CITY OF TULSA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 60 8 TRAFFIC SIGNS.

CONSTRUCTION TIME OF 270 DAYS IS TO INCLUDE THE BASE BID WORK AS WELL AS THE AD-ALTERNATE. GREEN POLE REMOVAL, AND NEW POLE CONSTRUCTION WORK SHALL BE LIMITED TO THREE (3) INTERSECTIONS PER DAY. SIGNAL HEAD REPLACEMENT, AND BACK PLATE WORK CAN BE DONE AT THE CONTRACTOR'S DISCRETION ALL TRAFFIC MATERIALS RE MOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE THAT HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC PRIOR TO DIGGING NEAR THE UTILITIES. THE CONTRACTOR SHALL CALL FOR A

THE OXIE NOTIFICATION CENTER 1-800-522-6543. THE LOCAL COUNTY CLERKS OFFICE.

DEPTH OF THE EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE PEDESTRIAN SIGNAL INDICATIONS FURNISHED ON THIS PROJECT SHALL INCLUDE AUDIBLE INDICATIONS TO SERVE VISUALLY IMPAIRED PEDESTRIANS. THE AUDIBLE INDICATIONS SHALL BE U.S. TRAFFIC CORPORATION / IDC MODEL APS-10, OR APPROVED EQUAL, WITH INTERNAL SPEAKERS OR APPROVED EQUAL. IT SHALL PROVIDE AN ELECTRONIC BIRD SOUND WITH CUCK90 FOR NORTH/SOUTH AND PEEP-PEEP FOR EAST/WEST. THE OUTPUT VOLUME SHALL ADJUST AUTOMATICALLY TO CHANGING AMBIENT NOISE LEVELS. ALL PEDESTRIAN SIGNAL INDICATIONS SHALL ALSO INCLUDE COUNTDOWN TIMERS.





ADDED PIAN NOTE 6/9/17

10816 EXECUTIVE CENTER DR. 8TE. 300 LITTLE ROCK, ARKANSAS 72211

- Device .	<b>AV</b>	CELANNIA DEPARTMENT OF TRANSPORTATION
	AND CONTRACT	GENERAL NOTES
ANTRONED SOLIAD	. <u>ک</u> لاہ مخصد	PROJECT NO

## **GENERAL NOTES**

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2009 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE CURRENT CITY OF TULSA ENGINEERING SERVICES DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.

2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.

3. PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.

4. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.

5. THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS; GAS (ONG), COX COMMUNICATIONS, MCI/VERIZON, EASYTEL COMMUNICATIONS, WELLSCO VALLOR TELECOM, CITY OF TULSA-WATER AND SEWER, CITY OF TULSA-TRAFFIC OPERATIONS. SEE TITLE SHEET FOR CONTACT INFORMATION.

6. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.

7. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, GENERAL CONSTRUCTION NOTES THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE GENERAL CONSTRUCTION NOTES THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.

8. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.

9. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.

10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.

11. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS. ALL SIGNS SHALL BE HANDLED IN A MANNER SO AS NOT TO DAMAGE THE SIGN AND/OR SHALL BE HANDLED IN A MANNER SO AS NOT TO DAMAGE THE SIGN AND/OR POST. ALL TRAFFIC SIGNS REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED BY THE CITY/CONTRACTOR.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS. ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.

13. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES

14. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.

15. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED GENERAL CONSTRUCTION NOTES FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.

16. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.

17. ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK. TREES OUTSIDE THE FILL SLOPES AND THE TOP OF CUT SLOPES SHALL NOT BE DISTURBED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

18. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.

19. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS AND PATTERNING.

20. IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-596-9404 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.

21. MASONRY STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE STREET RIGHT-OF-WAY.

22. ALL CONCRETE CURB AND GUTTERS SHALL BE MONOLITHIC POURS. DOWELED-ON CURBS WILL NOT BE ALLOWED

23. HANDICAP RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS

24. REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGHINTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.

25. STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.

26. THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.

## **ENVIRONMENTAL MITIGATION NOTES**

"LATITUDE/LONGITUDE	OCC FAC./CASE NO.	FACILI
36.1042, -95.8946	72-07720/064-FH	CONT
36.1924, -95.9935	72-10894/064-1314	PAYLE
36.1924, -95.9933	72-0450/064-2247	NAFE
36.1251, -95.9402	72-06197/6E-888	SPRAK
36.1186, -95.9226	72-06743/6E-539	RAPID
36.1185, -95.9224	72-04939/064-2853	PHILLI
36.1114, -95.9401	72-03513/064-2441	GAS N
36.1620, -96.0177	72-00368/SOR-3456	G& A 3
36.1606, -95.8881	72-00203/064-237 4	KERR I
36.1606, -95.8879	72-04941/064-FA	PHILLI

PETROLEUM CONTAMINATION MAY EXIST AT OR NEAR THE REFERENCED LEAKING UNDERGROUND STORAGE TANK (LUST) SITES. BASED ON THE AVAILABLE INFORMATION, CONTAMINATION IS NOT EXPECTED TO AFFECT CONSTRUCTION ACTIVITIES, BUT IS STILL POSSIBLE. IN THE EVENT CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA WHO IN TURN SHALL CONTACT THE OKLAHOMA COPRORATION COMMISSION AT (405)521-3107 FOR ASSISTANCE.

2. **TULSA INTERNATIONAL AIRPORT, TULSA DOWNTOWN AIRPARK**, AND **HARVEY YOUNG AIRPORT** ARE LOCATED WITHIN 4 MILES OF THIS PROJECT. THIS ACTION MAY REQUIRE NOTIFYING THE FEDERAL AVIATION ADMINISTRATION (FAA) OF PROPOSED CONSTRUCTION VIA FAA FORM 7460-1 PRIOR TO CONSTRUCTION.

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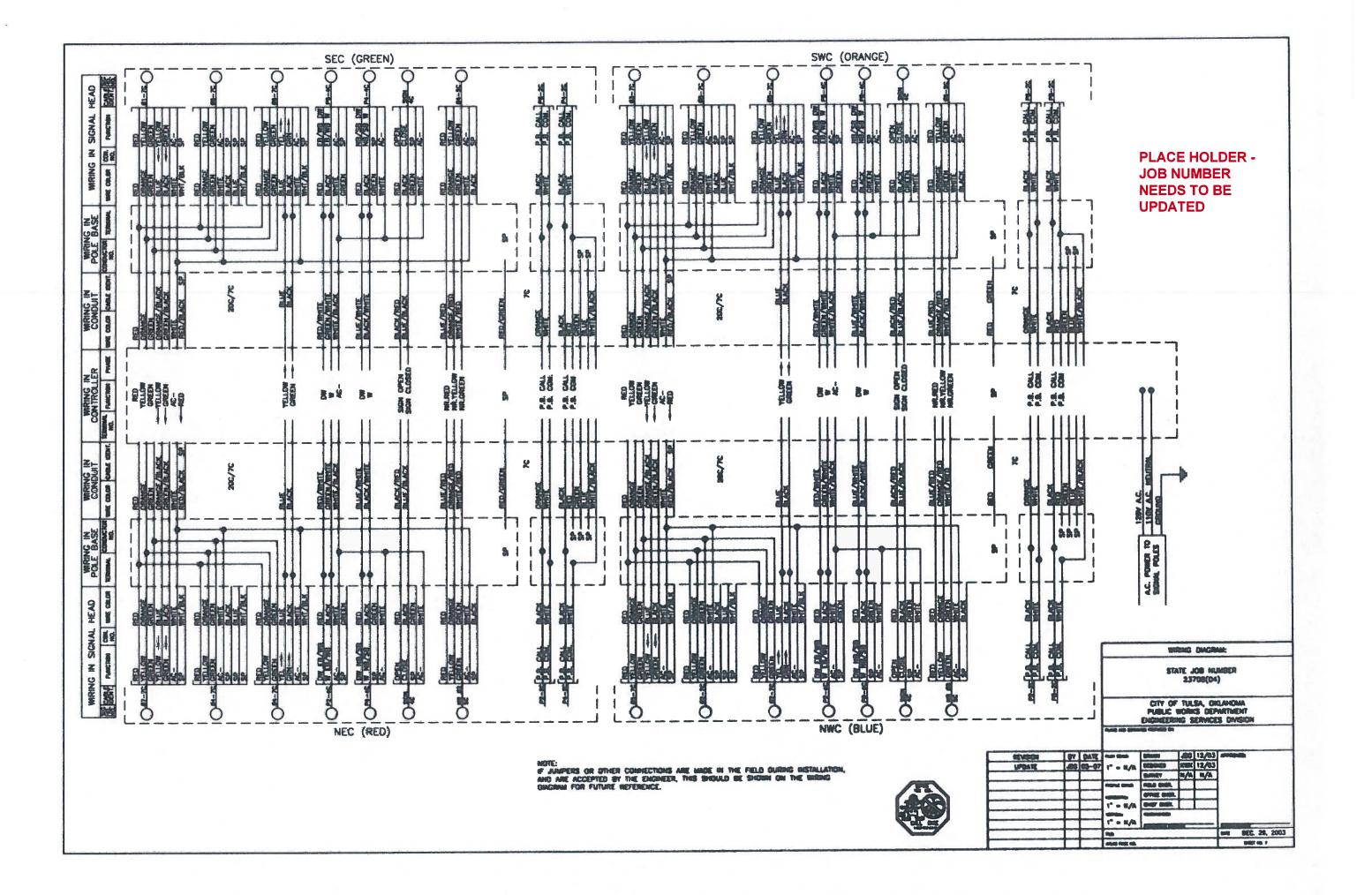


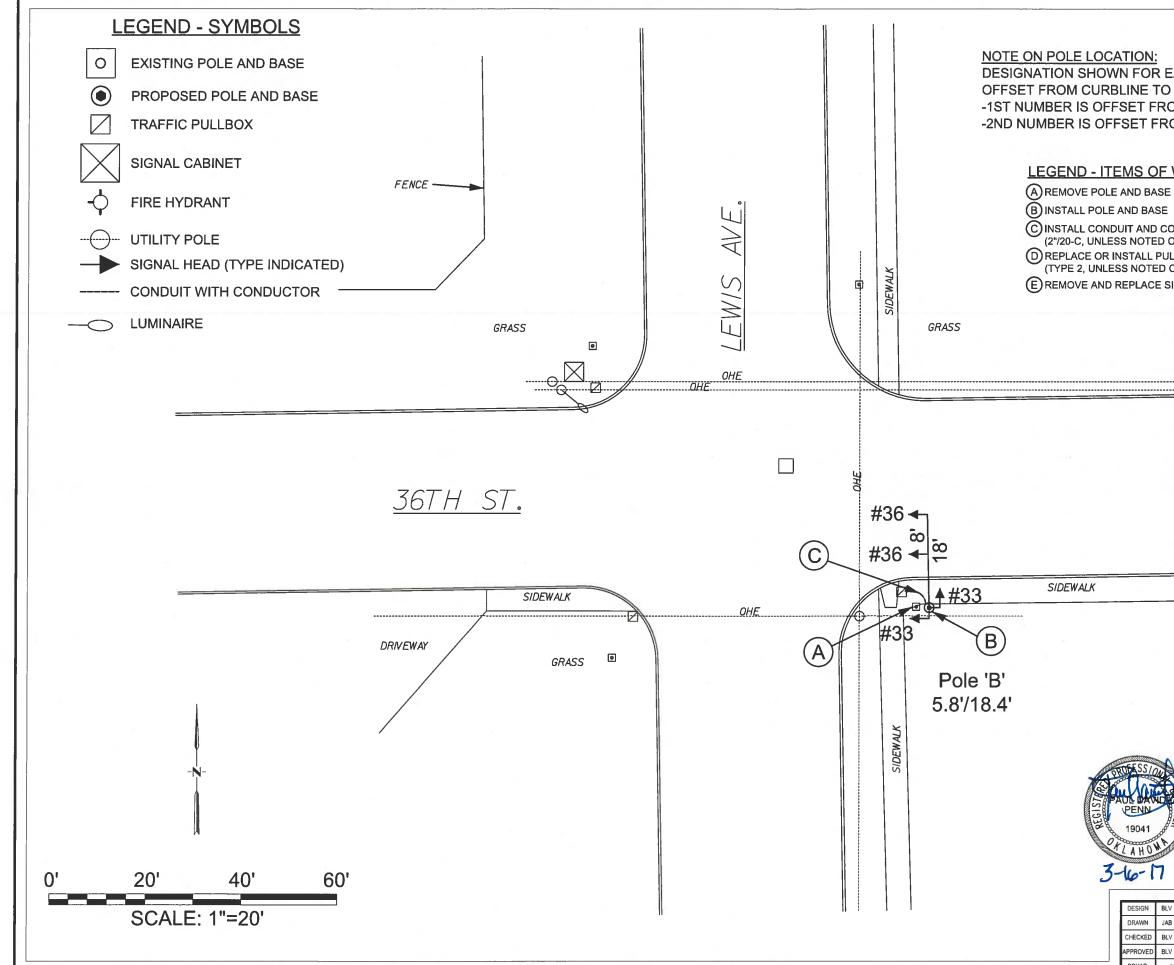
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10816 EXECUTIVE CENTER DR. STE. 300 LITTLE ROCK, ARKANSAS 72211

1	DESIGN	BLV		OKLAHOMA	DEPARTM		NSPORTATION
	DRAWN	JAB					
	CHECKED	BLV			GENE	RAL NOTES	
	APPROVED	BLV	j				
	SQUAD	Jac	obs	PROJECT	NO	23708(06)	SHEET NO,6





DESIGNATION SHOWN FOR EACH POLE IS THE OFFSET FROM CURBLINE TO CENTER OF POLE: -1ST NUMBER IS OFFSET FROM EAST-WEST CURBLINE -2ND NUMBER IS OFFSET FROM NORTH-SOUTH CURBLINE

LEGEND - ITEMS OF WORK

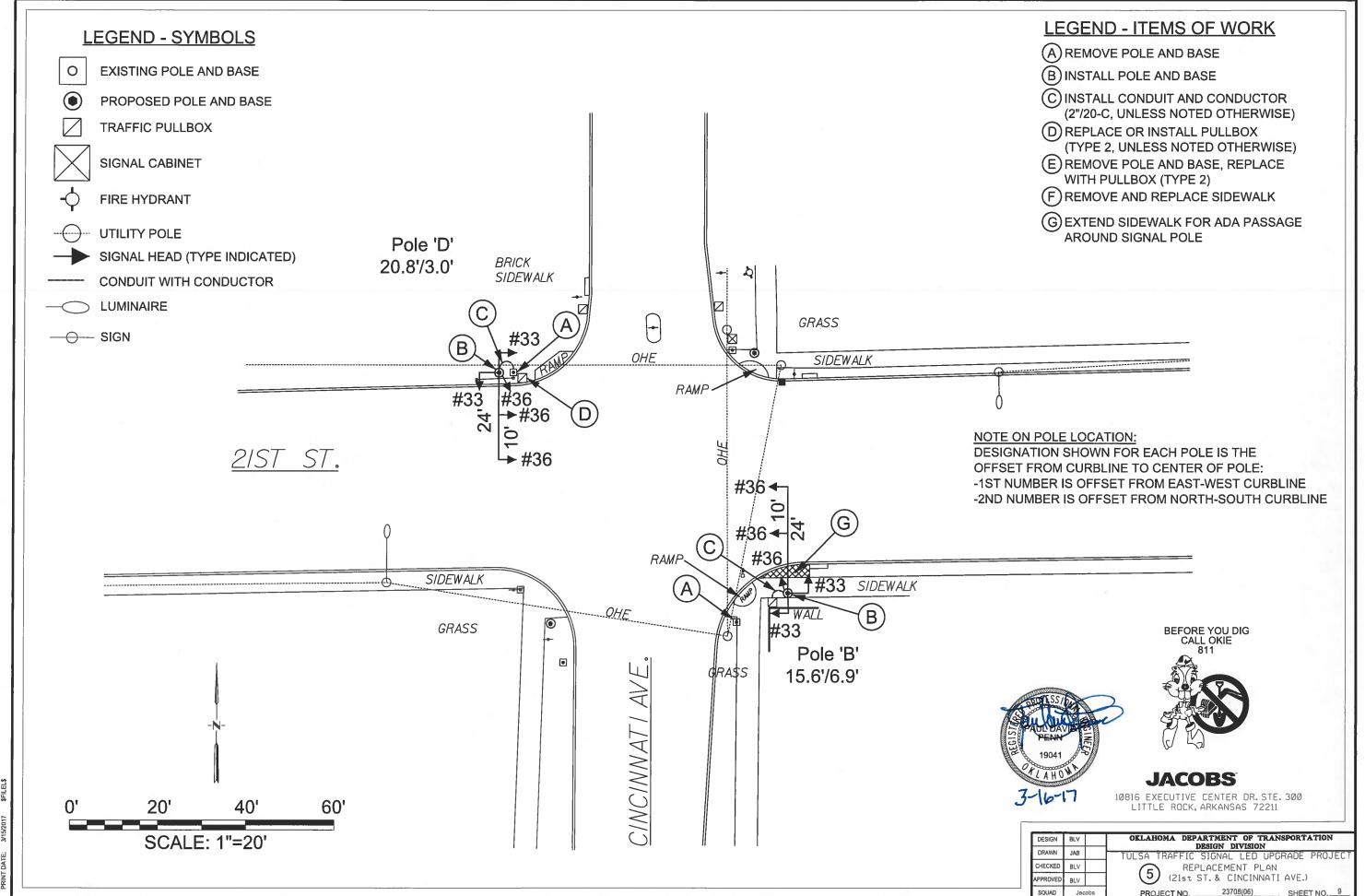
(B) INSTALL POLE AND BASE © INSTALL CONDUIT AND CONDUCTOR (2"/20-C, UNLESS NOTED OTHERWISE) D REPLACE OR INSTALL PULLBOX (TYPE 2, UNLESS NOTED OTHERWISE) (E) REMOVE AND REPLACE SIDEWALK



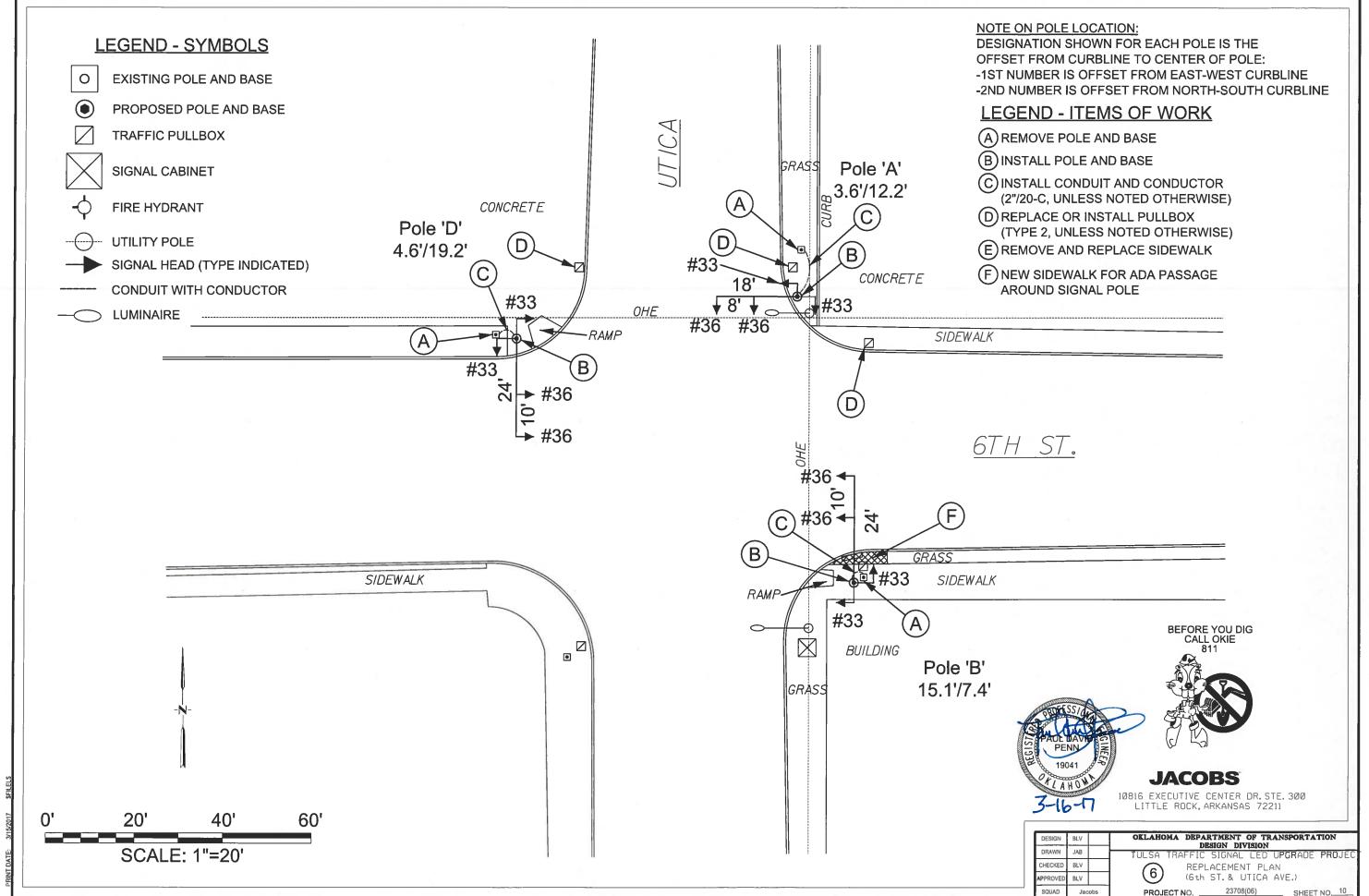


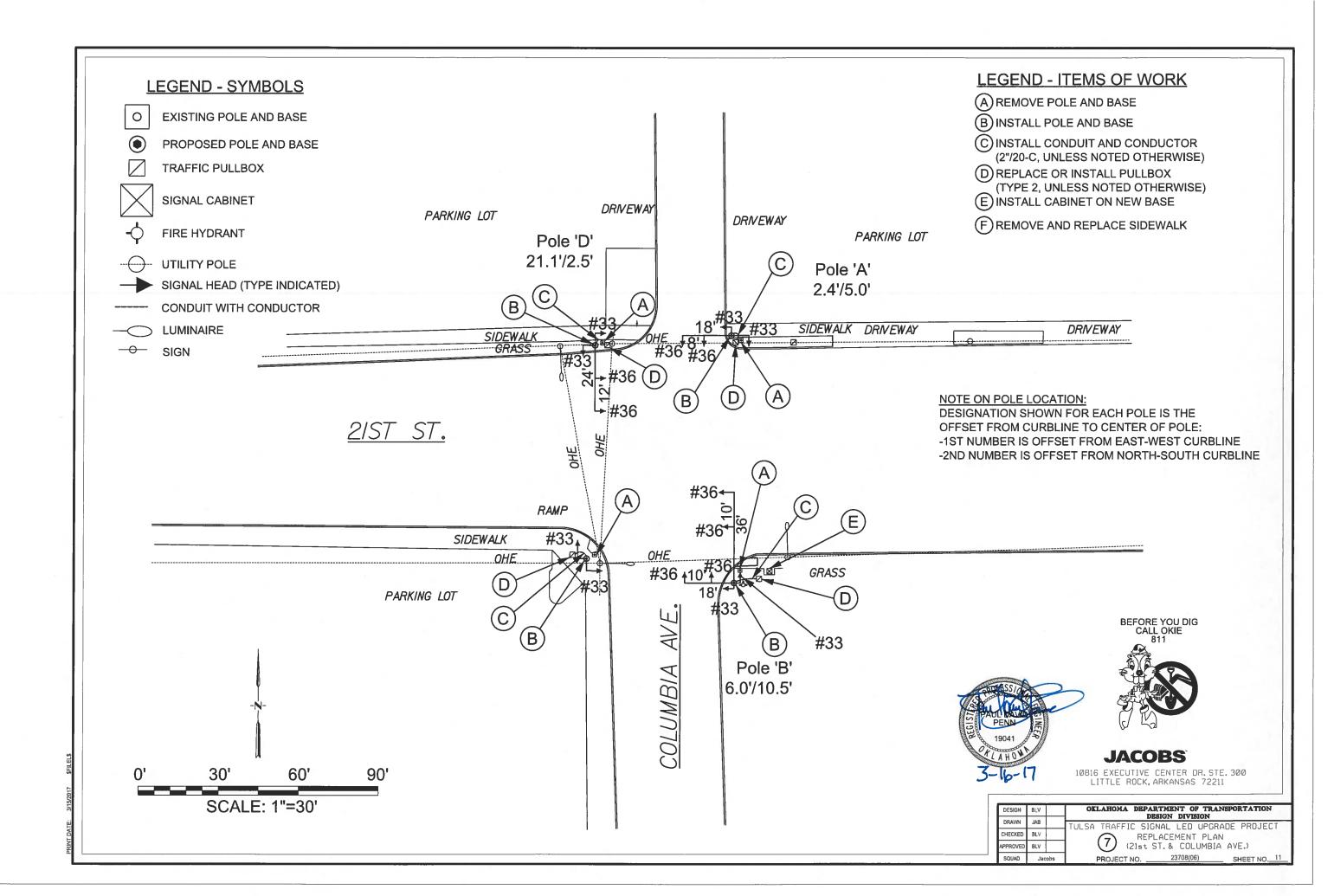
10816 EXECUTIVE CENTER DR. STE. 300 LITTLE ROCK, ARKANSAS 72211

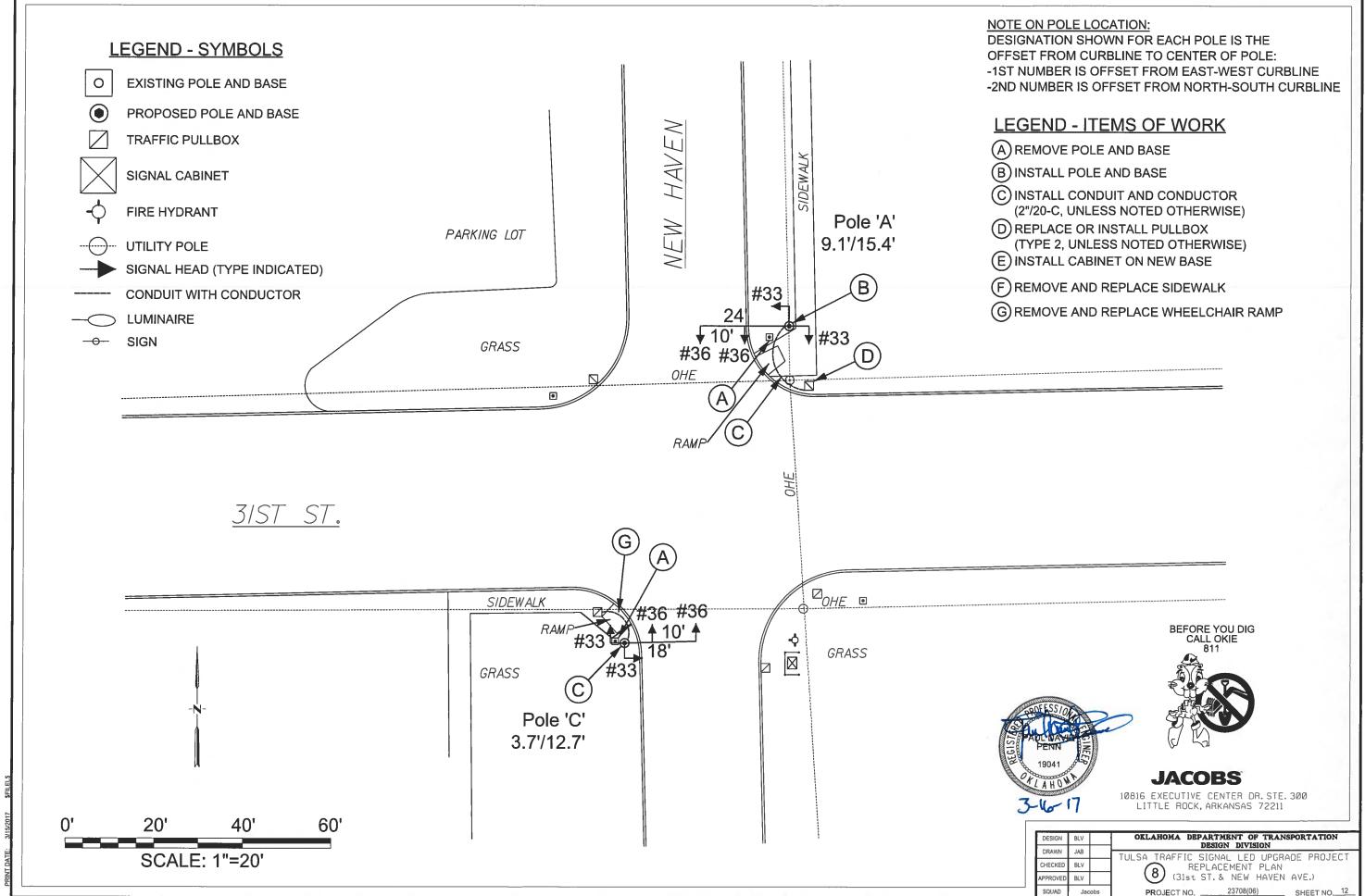
DESIGN	BLV		OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
DRAWN	JAB		TULSA TRAFFIC SIGNAL LED UPGRADE PROJECT
CHECKED	BLV		REPLACEMENT PLAN
APPROVED	BLV		(36TH ST. & LEWIS AVE.)
 SQUAD	Jac	obs	PROJECT NO SHEET NO

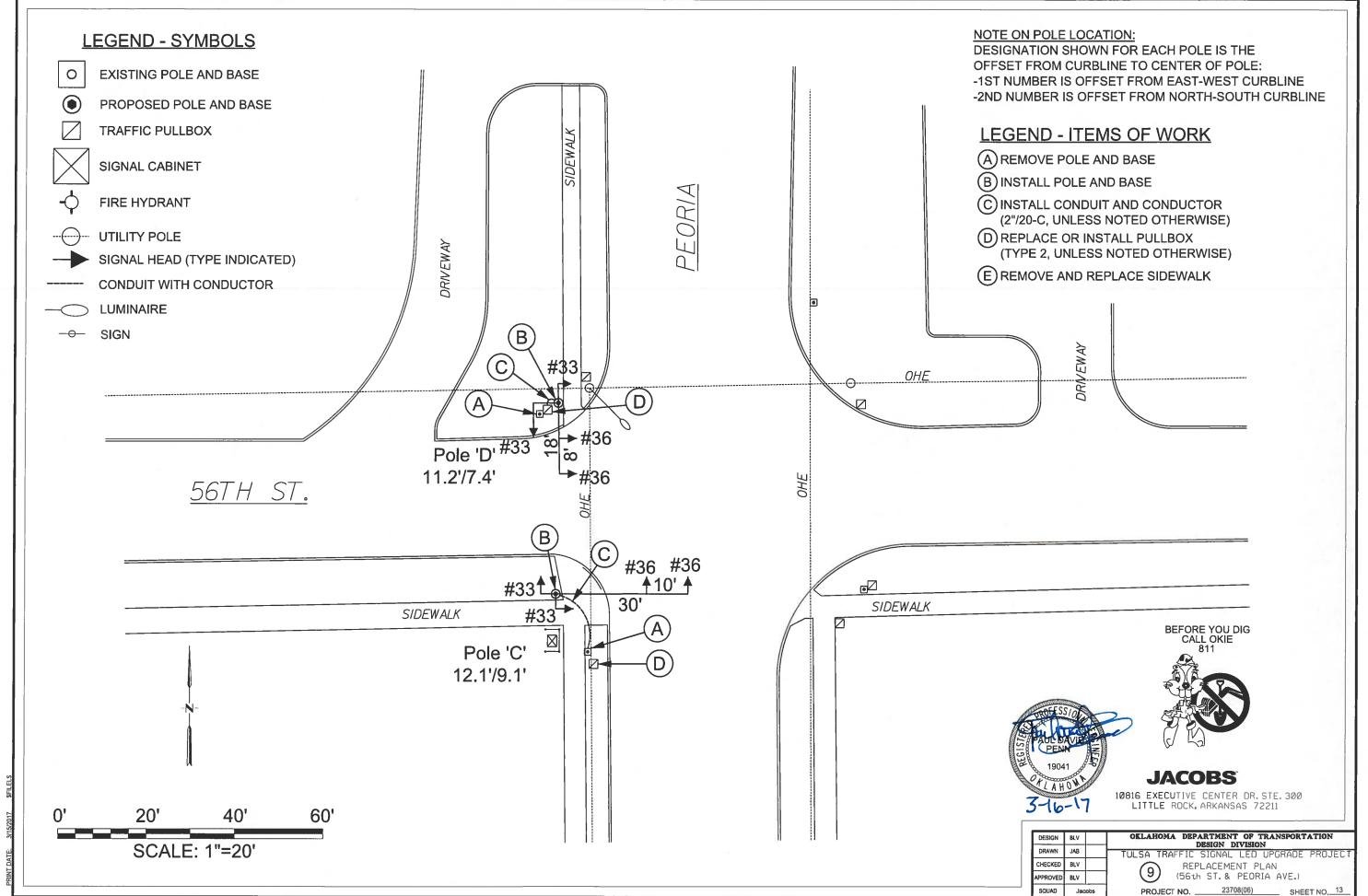


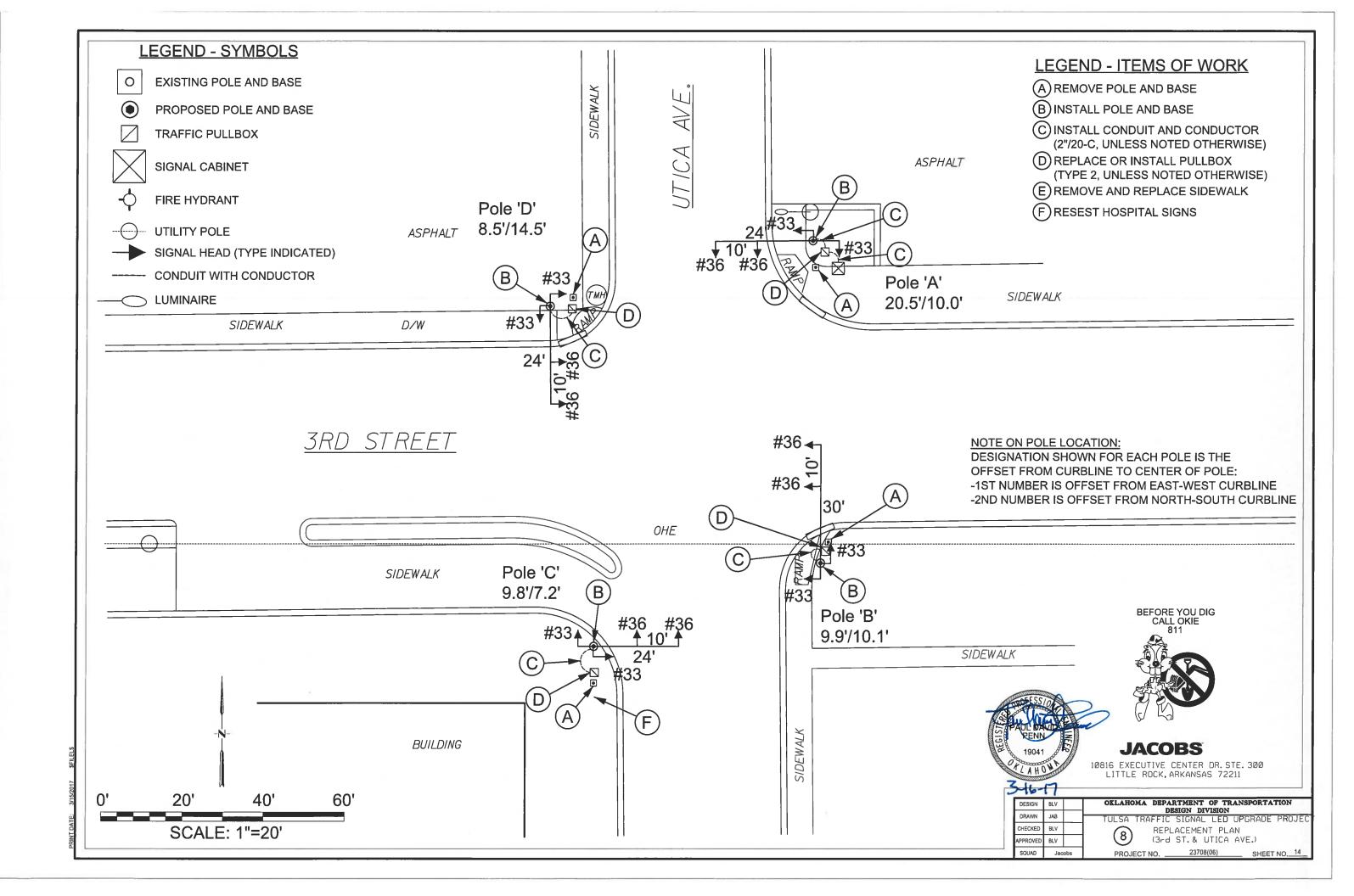
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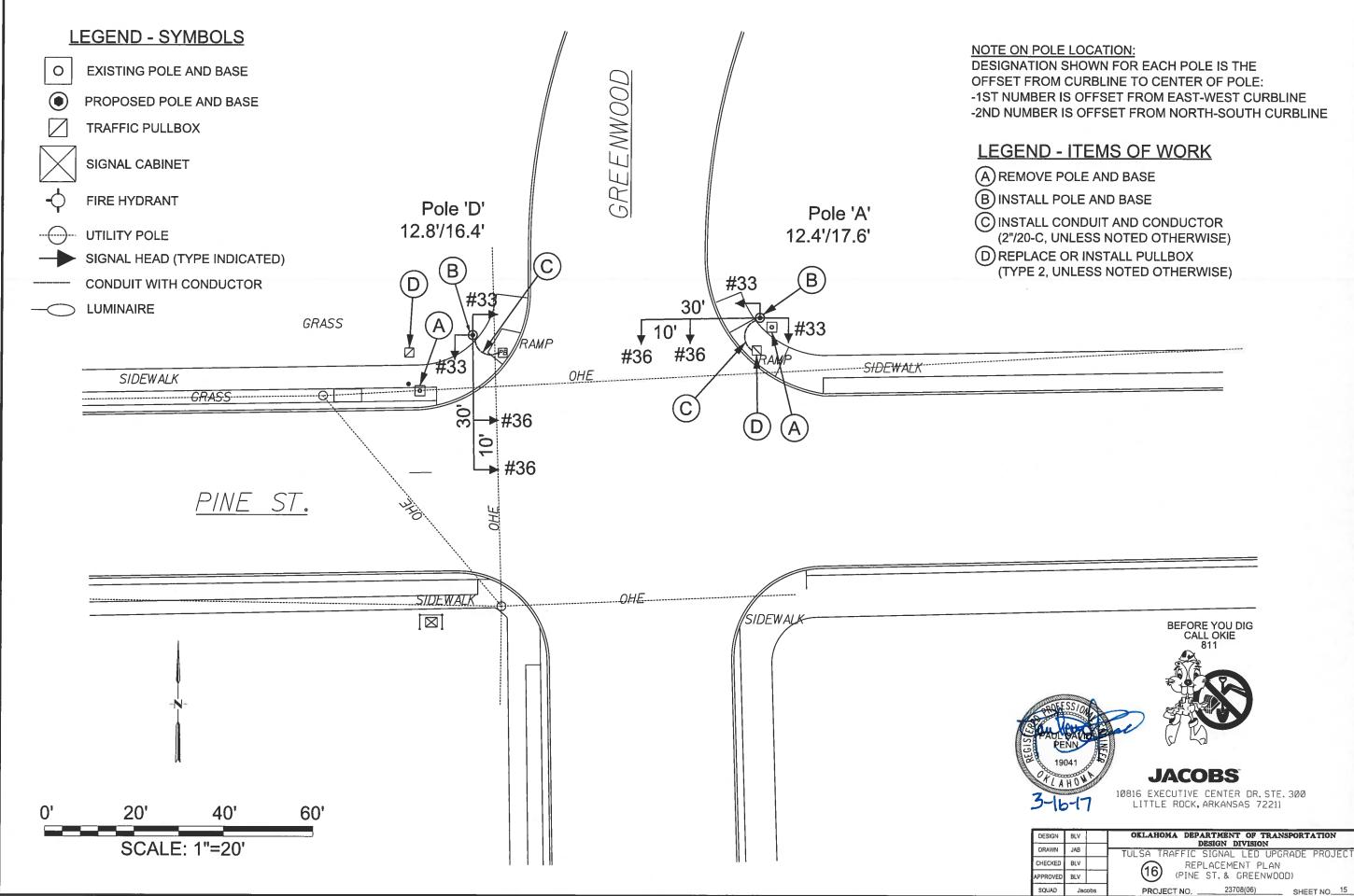


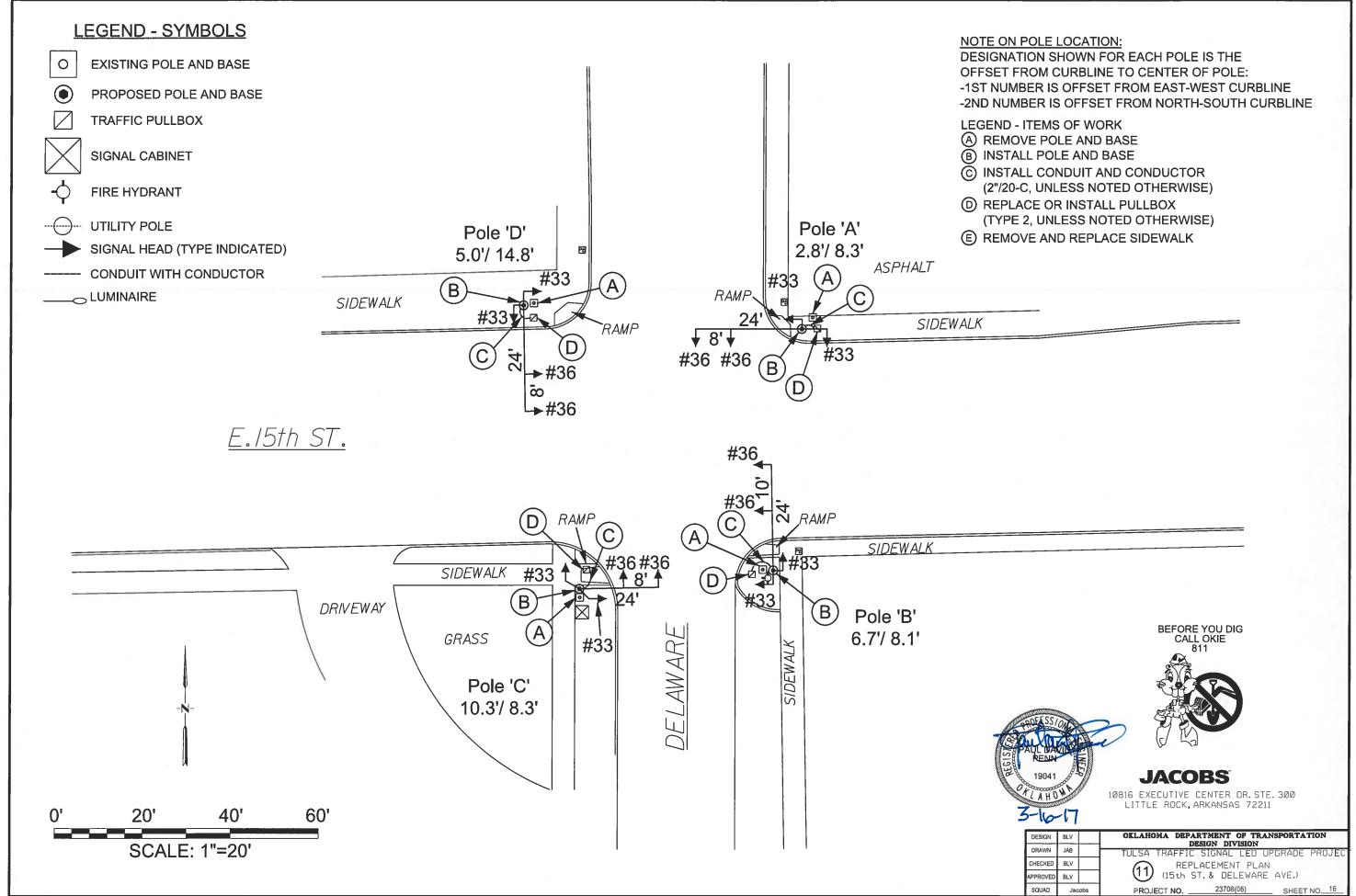


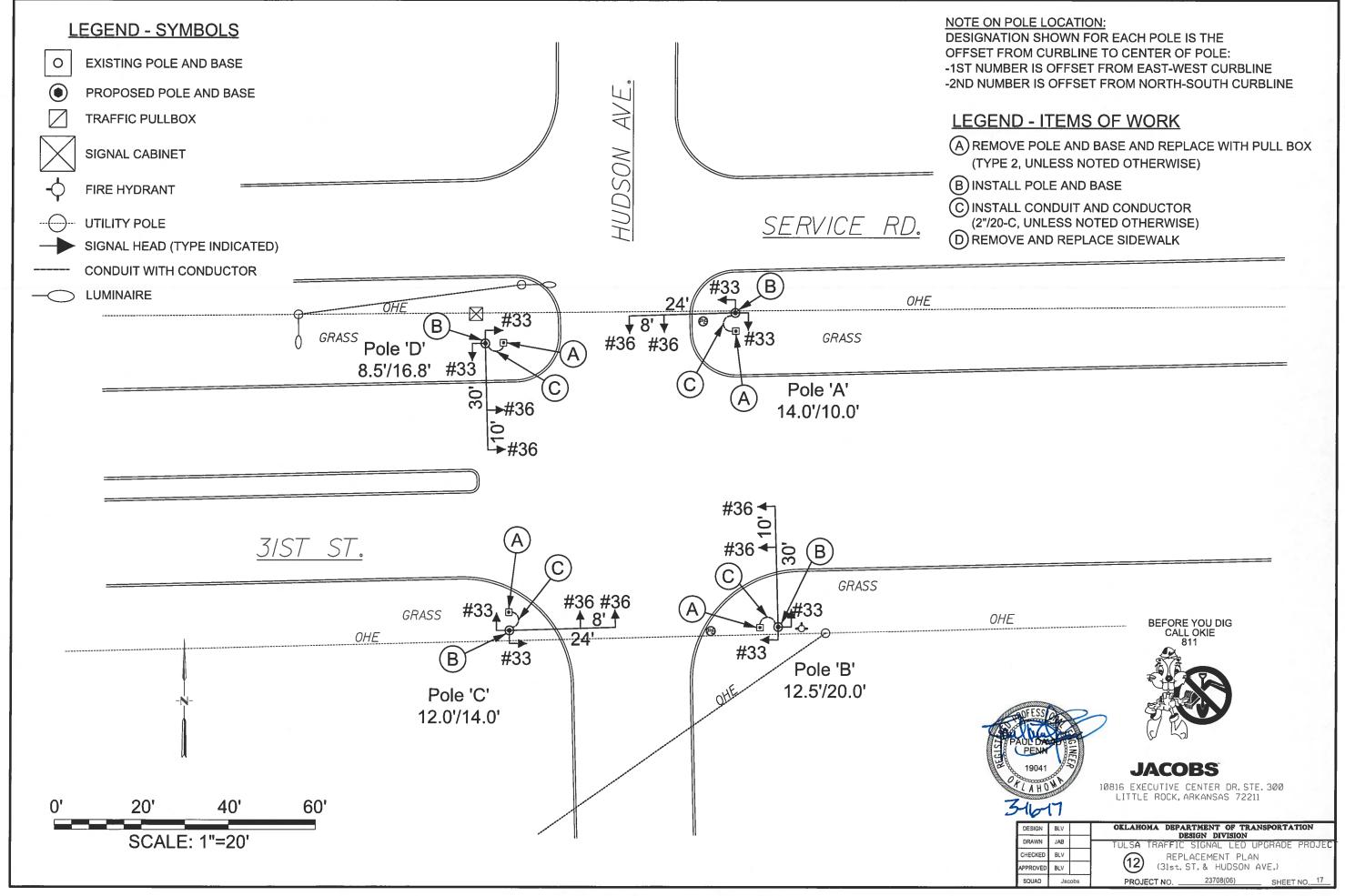




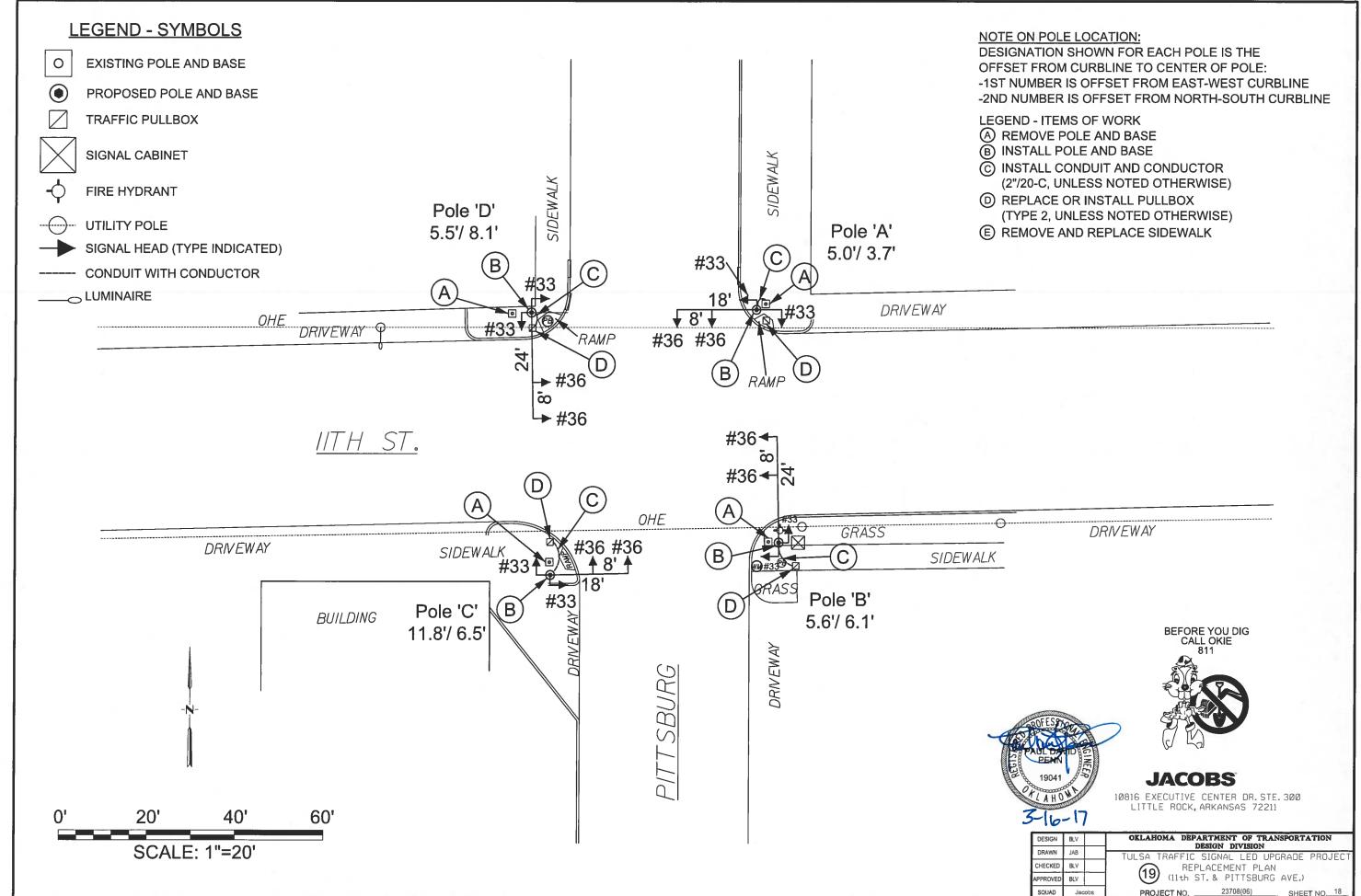


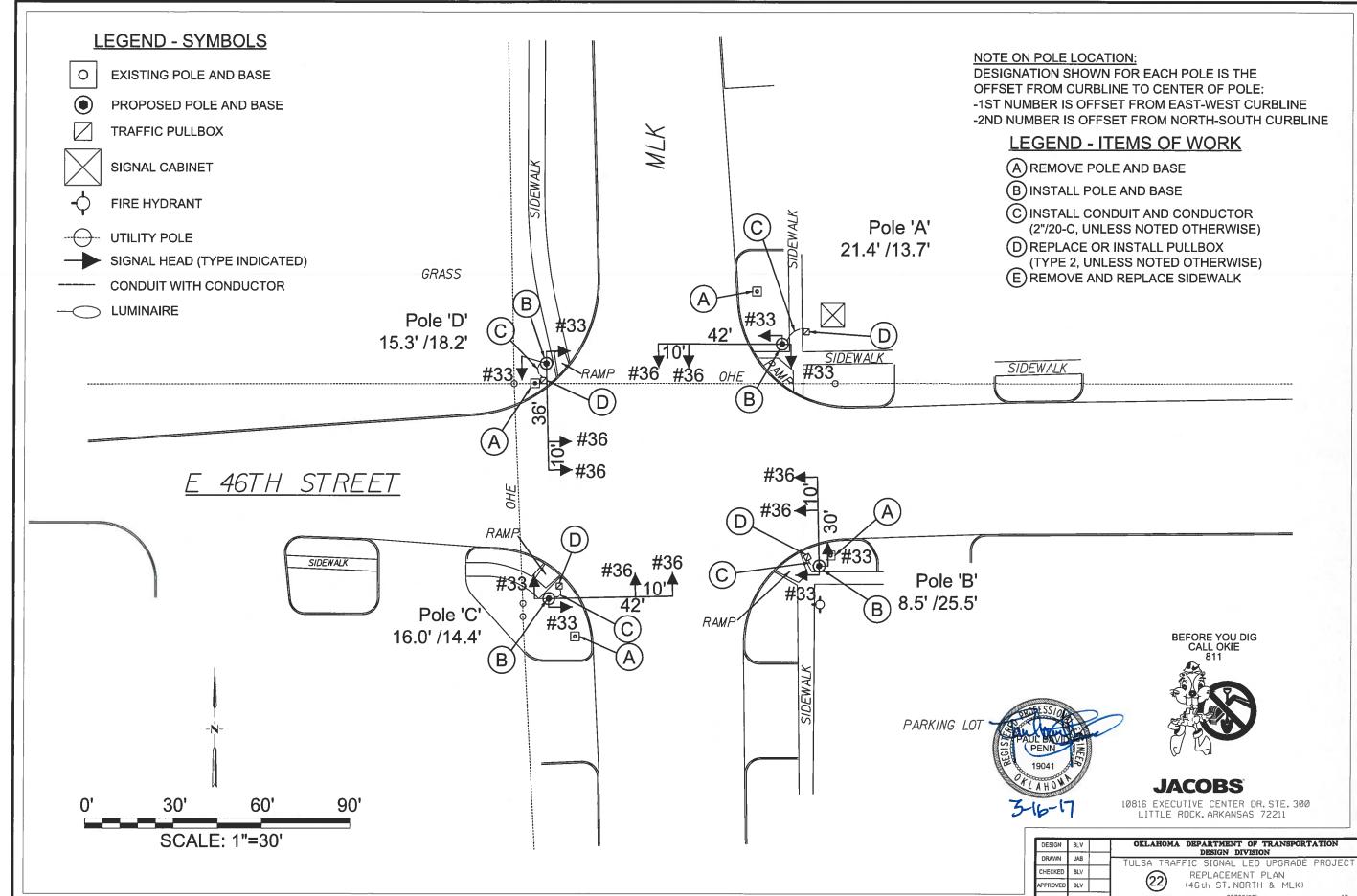




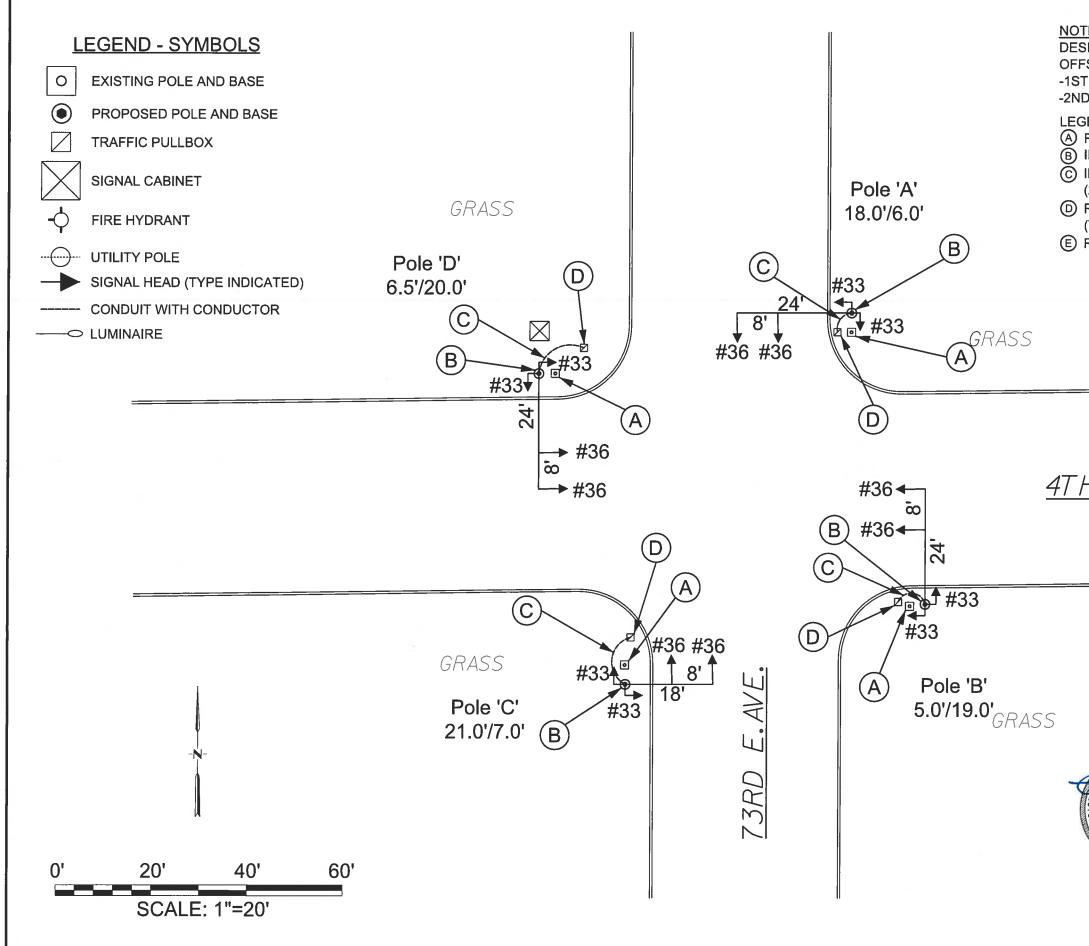


ON POLE LOCATION:	
VATION SHOWN FOR EACH POLE IS THE	
T FROM CURBLINE TO CENTER OF POLE:	
JMBER IS OFFSET FROM EAST-WEST CURBLINE	
UMBER IS OFFSET FROM NORTH-SOUTH CURBLINE	





	DESIGN	BLV		OKLAHOMA DEPAR		NSPORTATION
	DRAWN	JAB		TULSA TRAFFIC SI		GRADE PROJECT
	CHECKED	BLV			ACEMENT PLA	
	APPROVED	BLV		(46th	ST. NORTH &	MLK)
_	SQUAD	Jac	obs	PROJECT NO.	23708(06)	SHEET NO

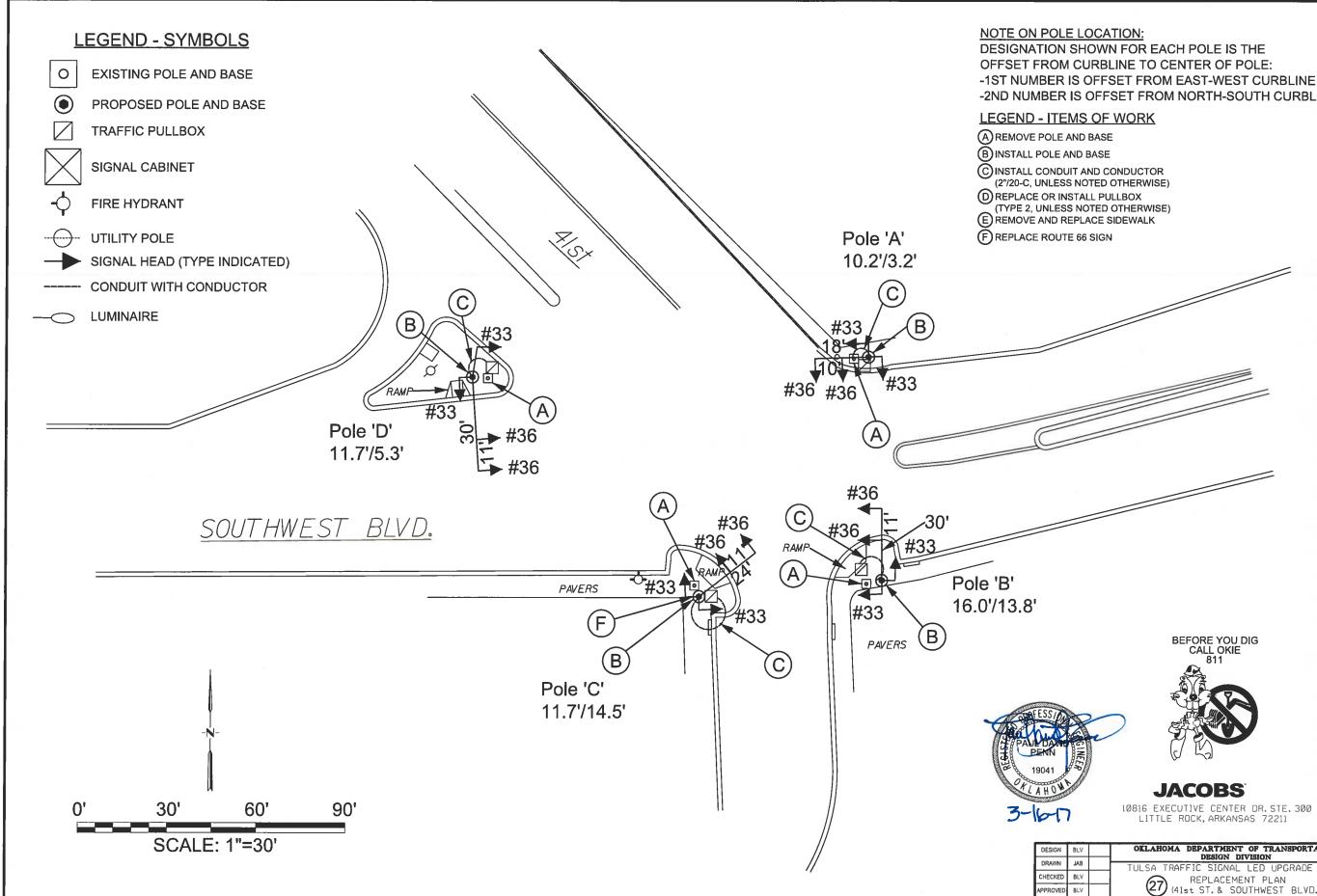


NOTE ON POLE LOCATION: DESIGNATION SHOWN FOR EACH POLE IS THE OFFSET FROM CURBLINE TO CENTER OF POLE: -1ST NUMBER IS OFFSET FROM EAST-WEST CURBLINE -2ND NUMBER IS OFFSET FROM NORTH-SOUTH CURBLINE

LEGEND - ITEMS OF WORK
A REMOVE POLE AND BASE
B INSTALL POLE AND BASE
C INSTALL CONDUIT AND CONDUCTOR (2"/20-C, UNLESS NOTED OTHERWISE)
D REPLACE OR INSTALL PULLBOX (TYPE 2, UNLESS NOTED OTHERWISE)
E REMOVE AND REPLACE SIDEWALK

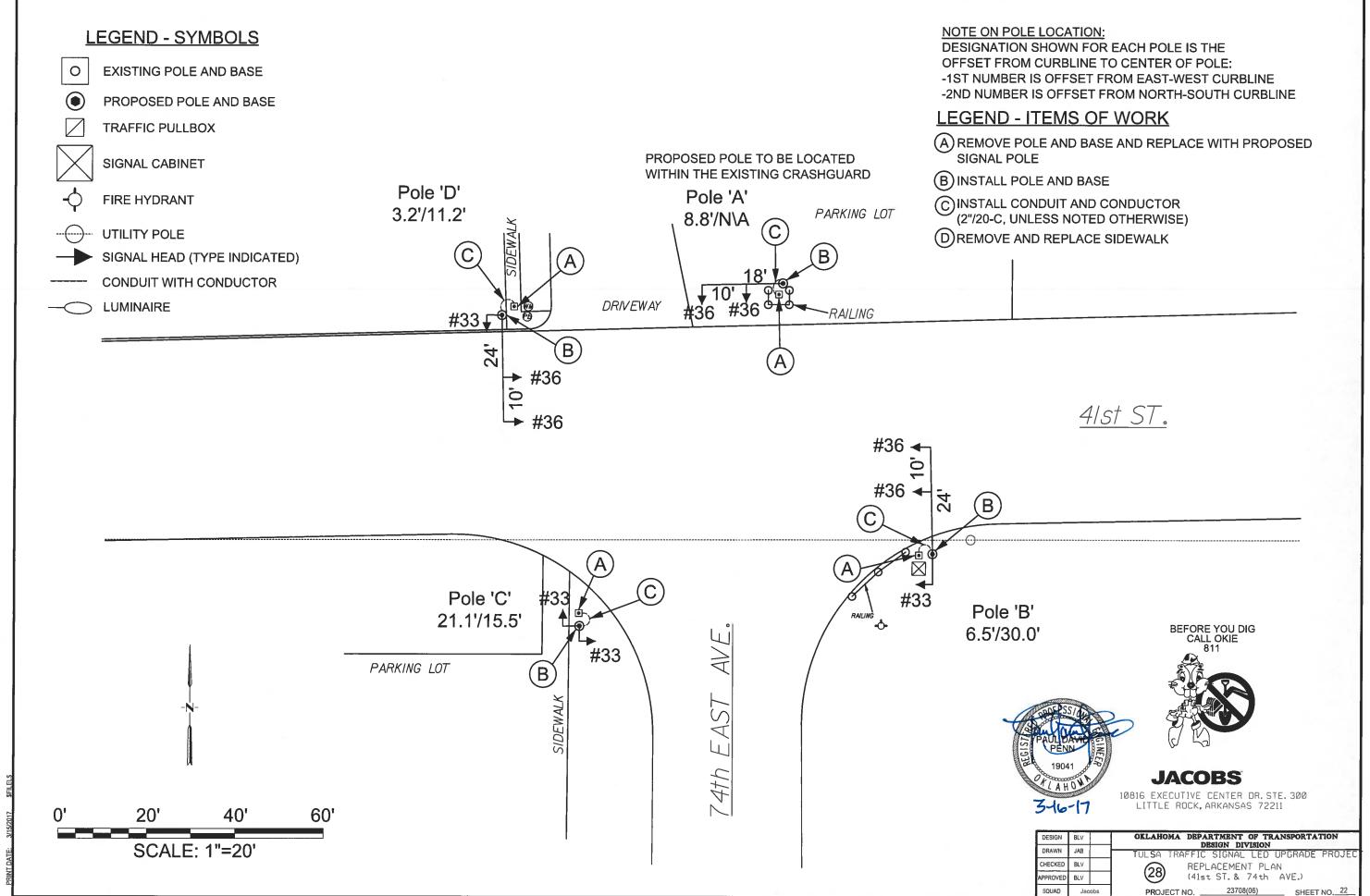
<u>4TH PLACE</u>

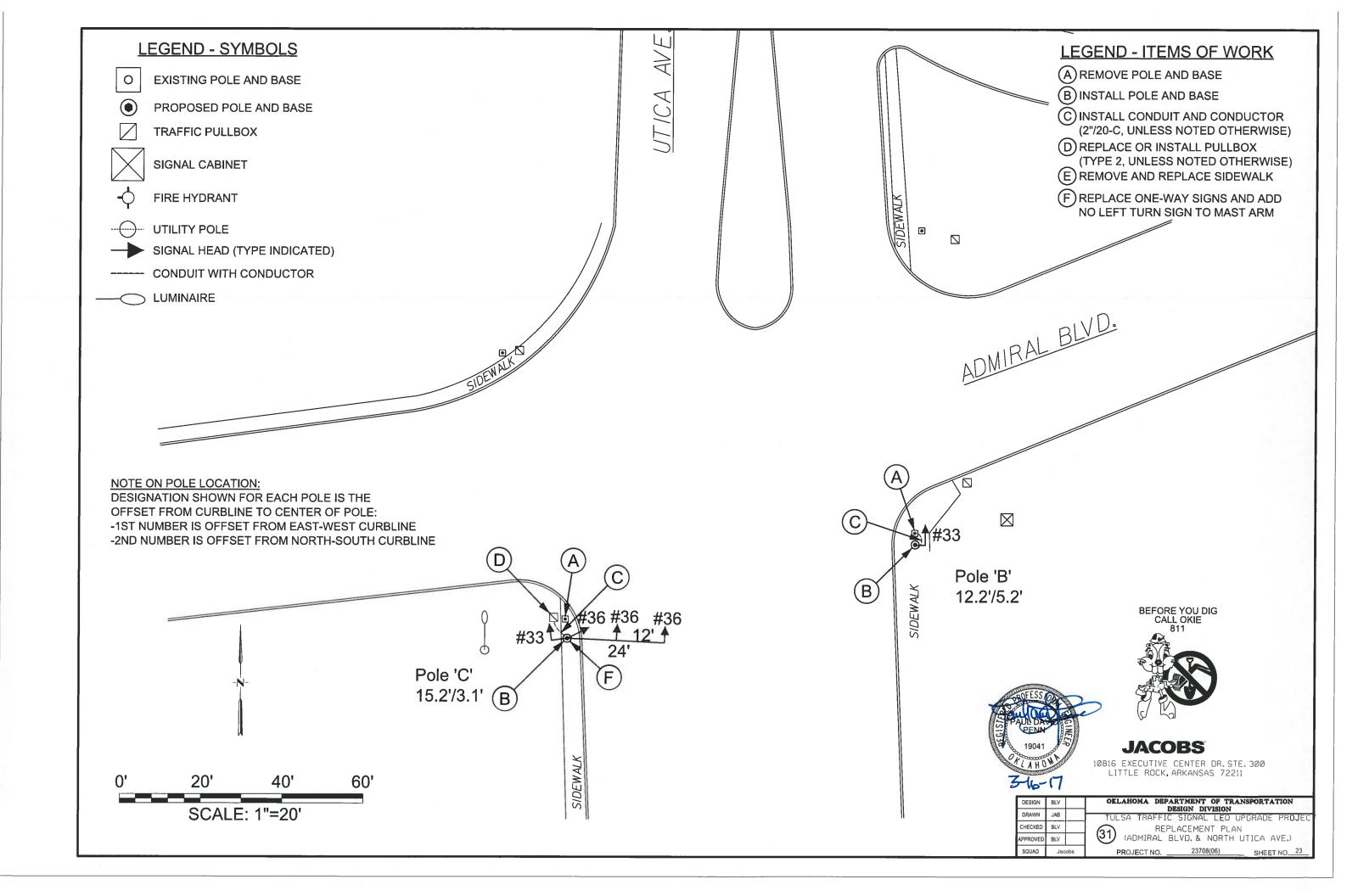
DOFESS AUL DA HOULD I 19041	4	NAL LAYOUT TH Place CALL OKIE B11 East Avenue VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
DESIGN	BLV	OELAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
DRAWN	JAB	TULSA TRAFFIC SIGNAL LED UPGRADE PROJECT
CHECKED	BLV	REPLACEMENT PLAN
APPROVED	BLV	(4th PLACE & 73rd AVE.)
SQUAD	Jacobs	PROJECT NO. 23708(06) SHEET NO. 20_

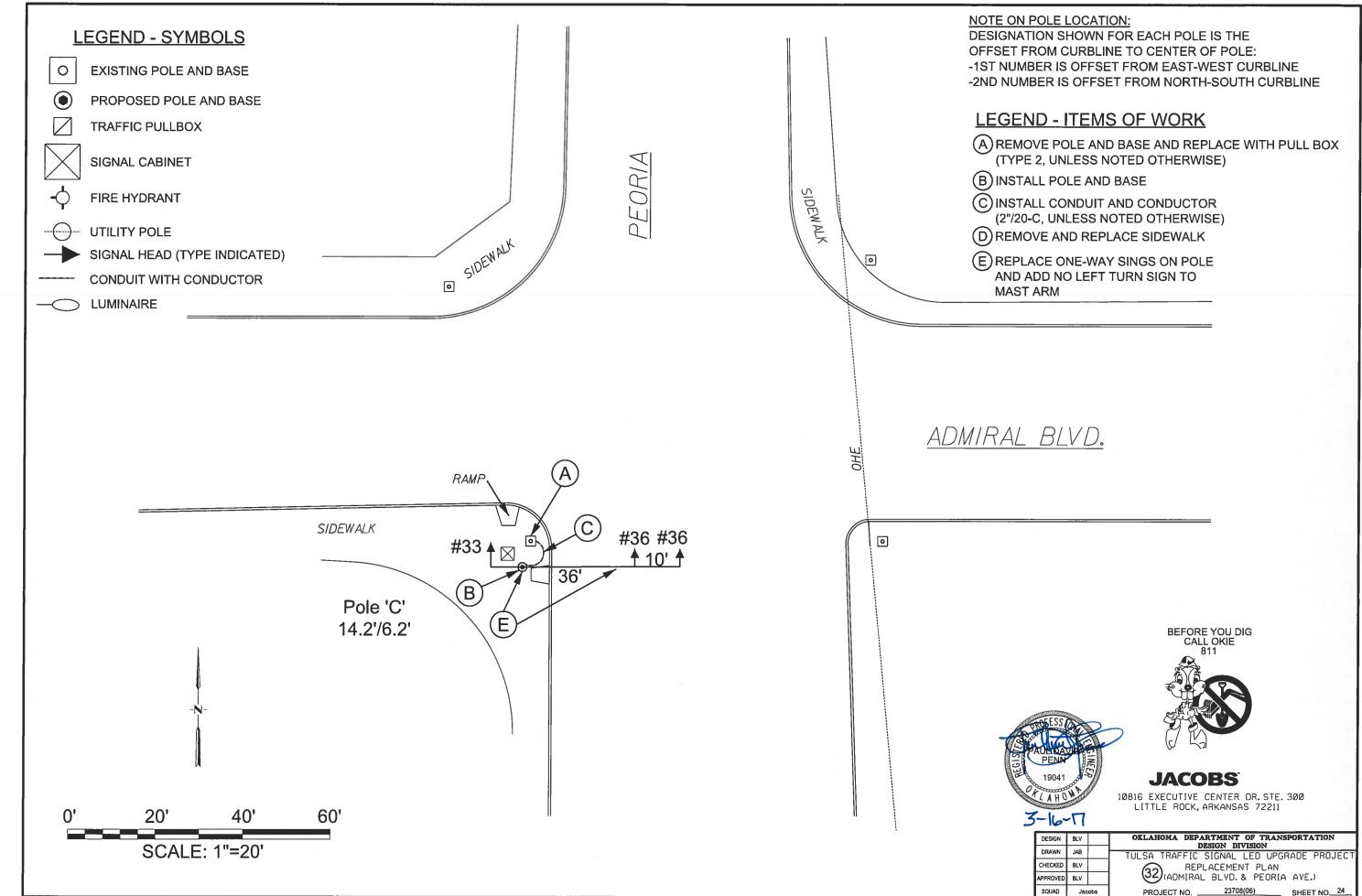


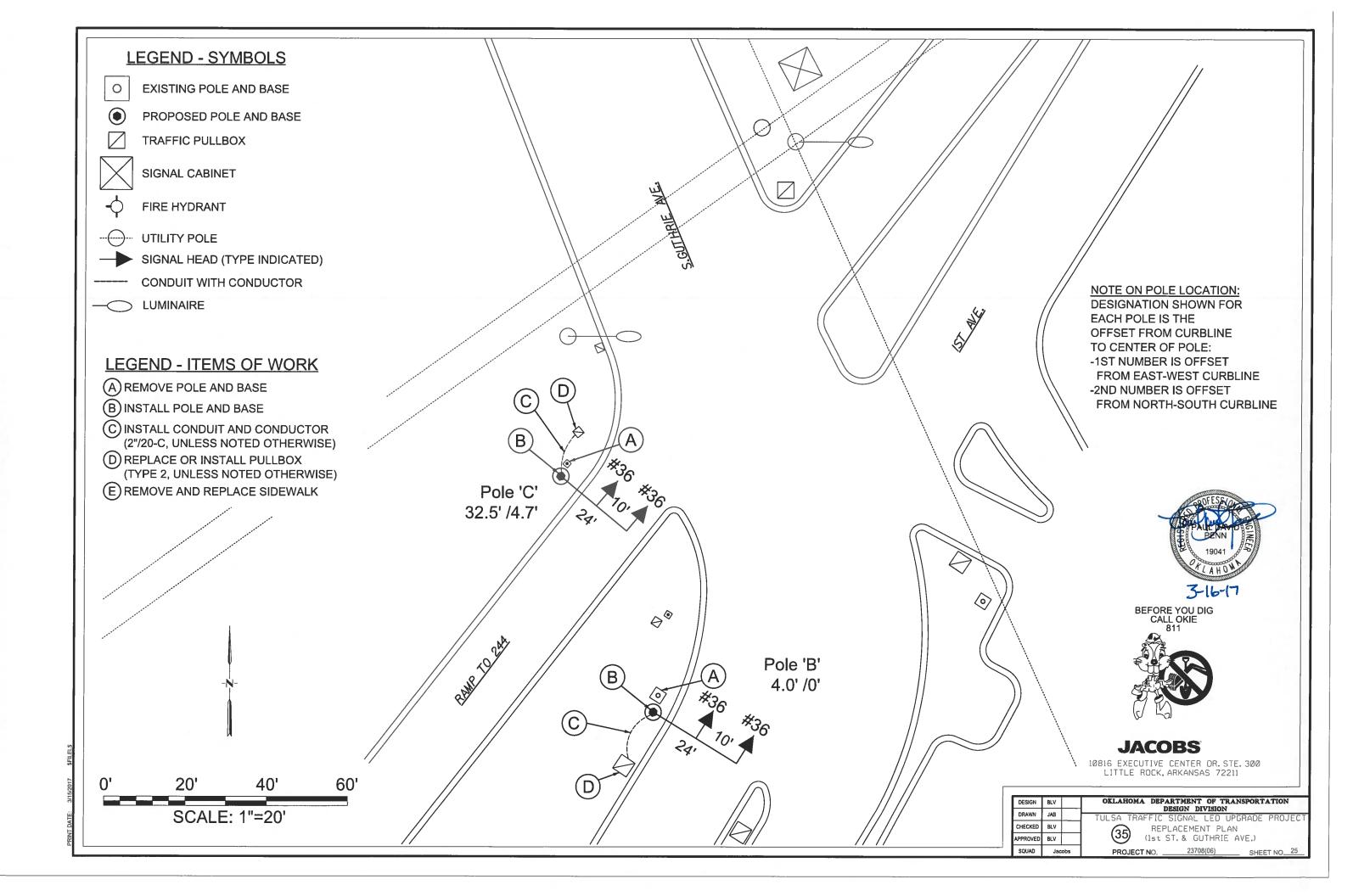
# -1ST NUMBER IS OFFSET FROM EAST-WEST CURBLINE -2ND NUMBER IS OFFSET FROM NORTH-SOUTH CURBLINE

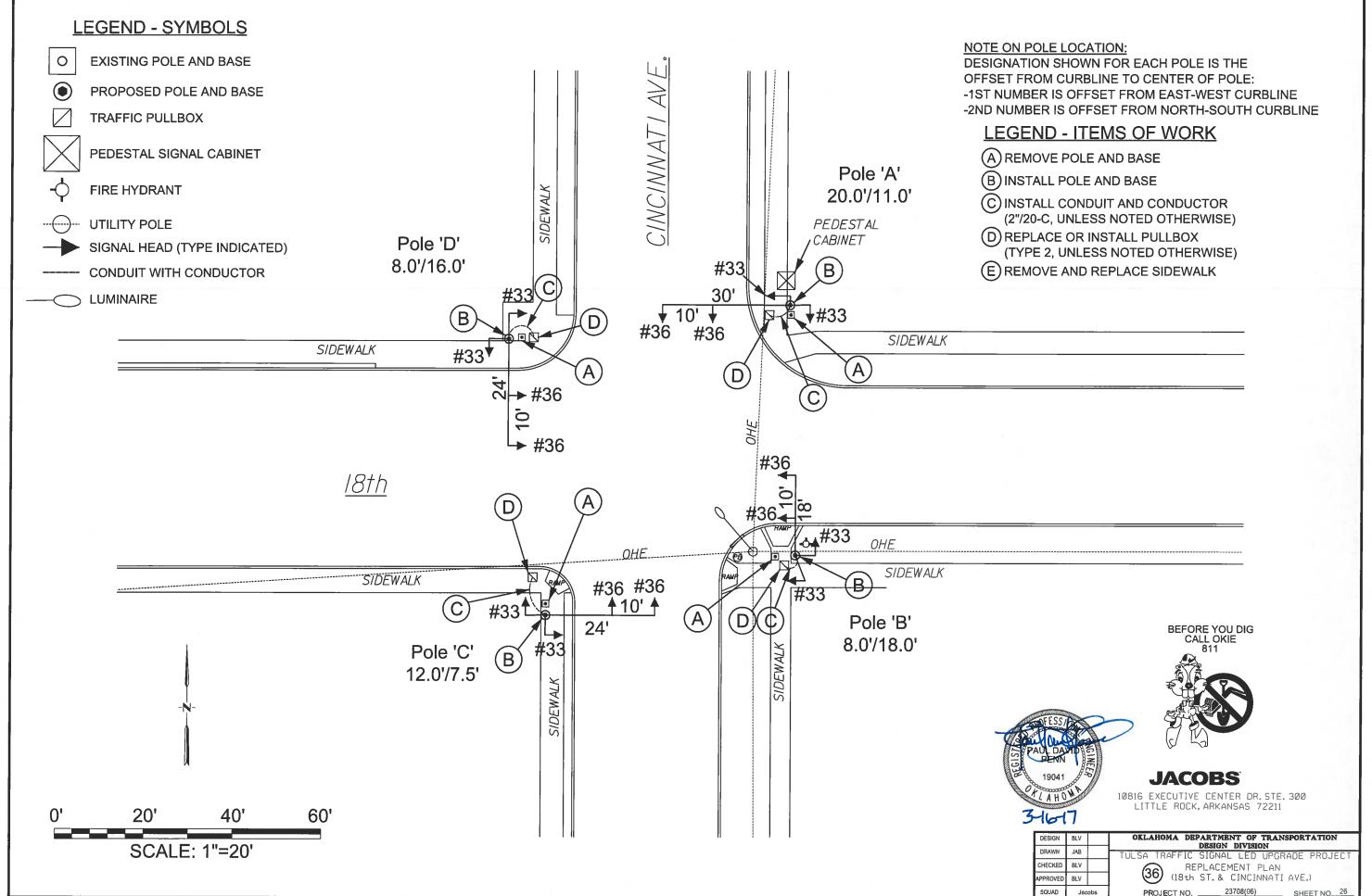
DESI	SN BL	v	OKLAHOMA DEPARTMENT OF TRANSPORTATION
DRAV	AL N	в	DESIGN DIVISION TULSA TRAFFIC SIGNAL LED UPGRADE PROJECT
CHECK	ED BL	v	
APPRO	VED BL	v	(41st ST. & SOUTHWEST BLVD.)
SQUA	a	Jacobs	PROJECT NO

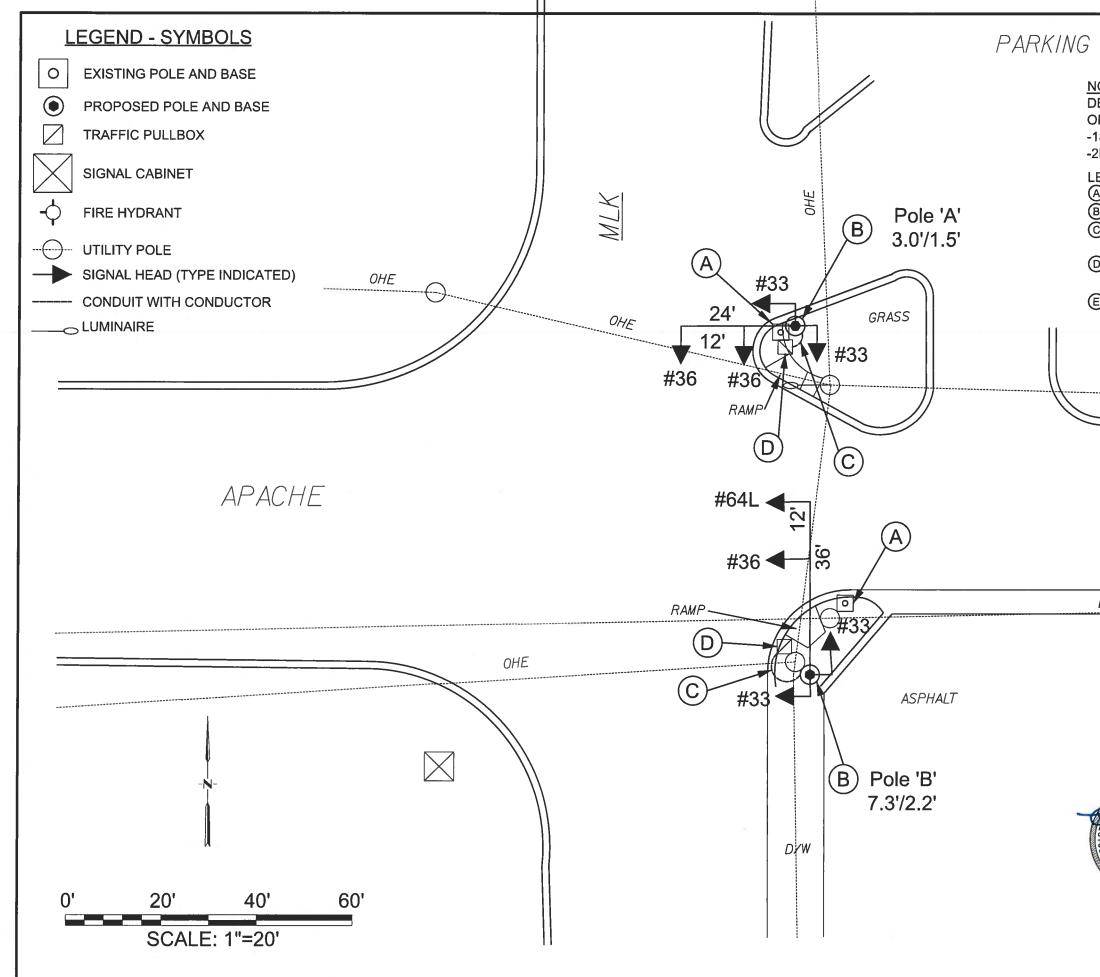










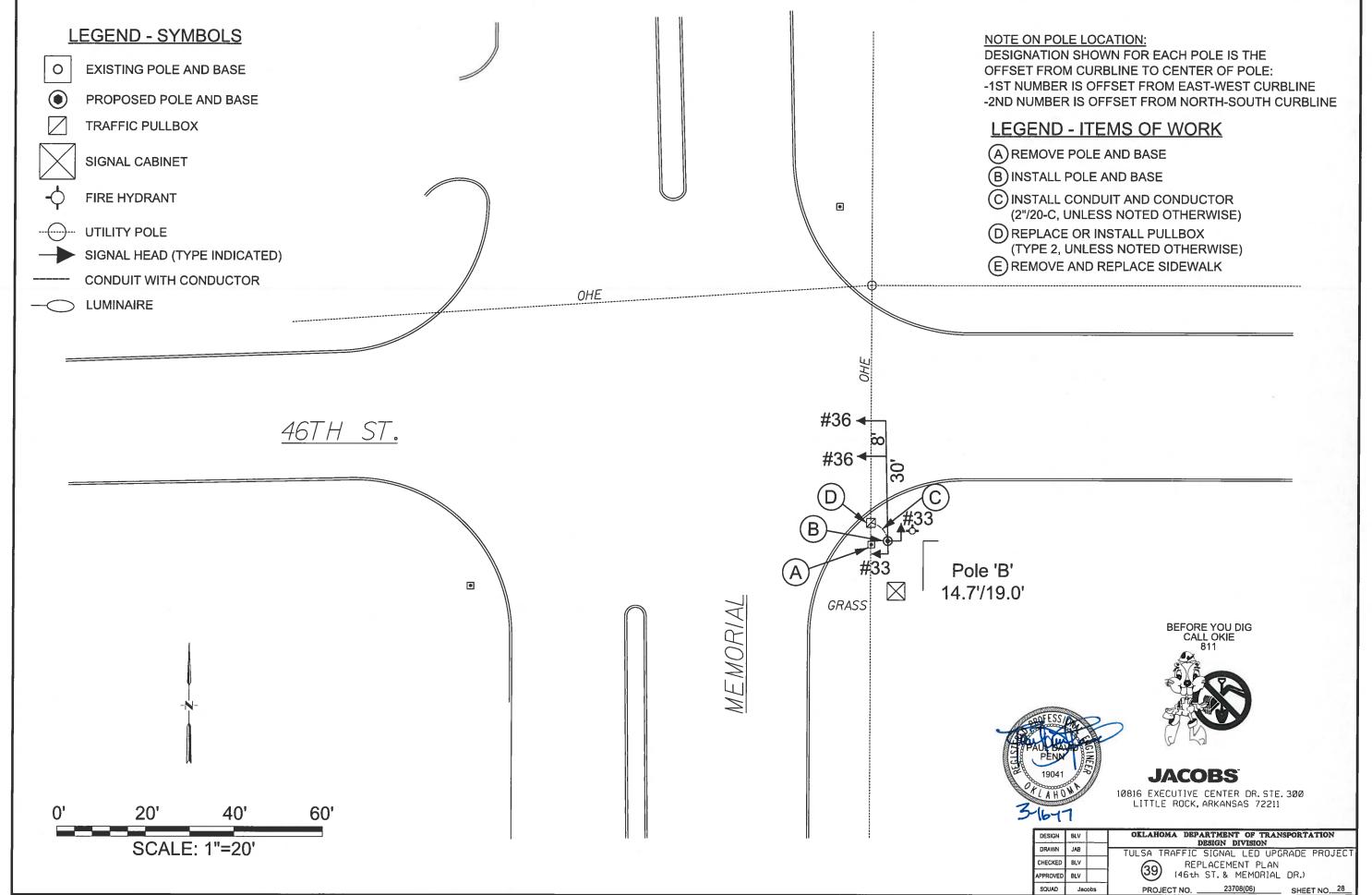


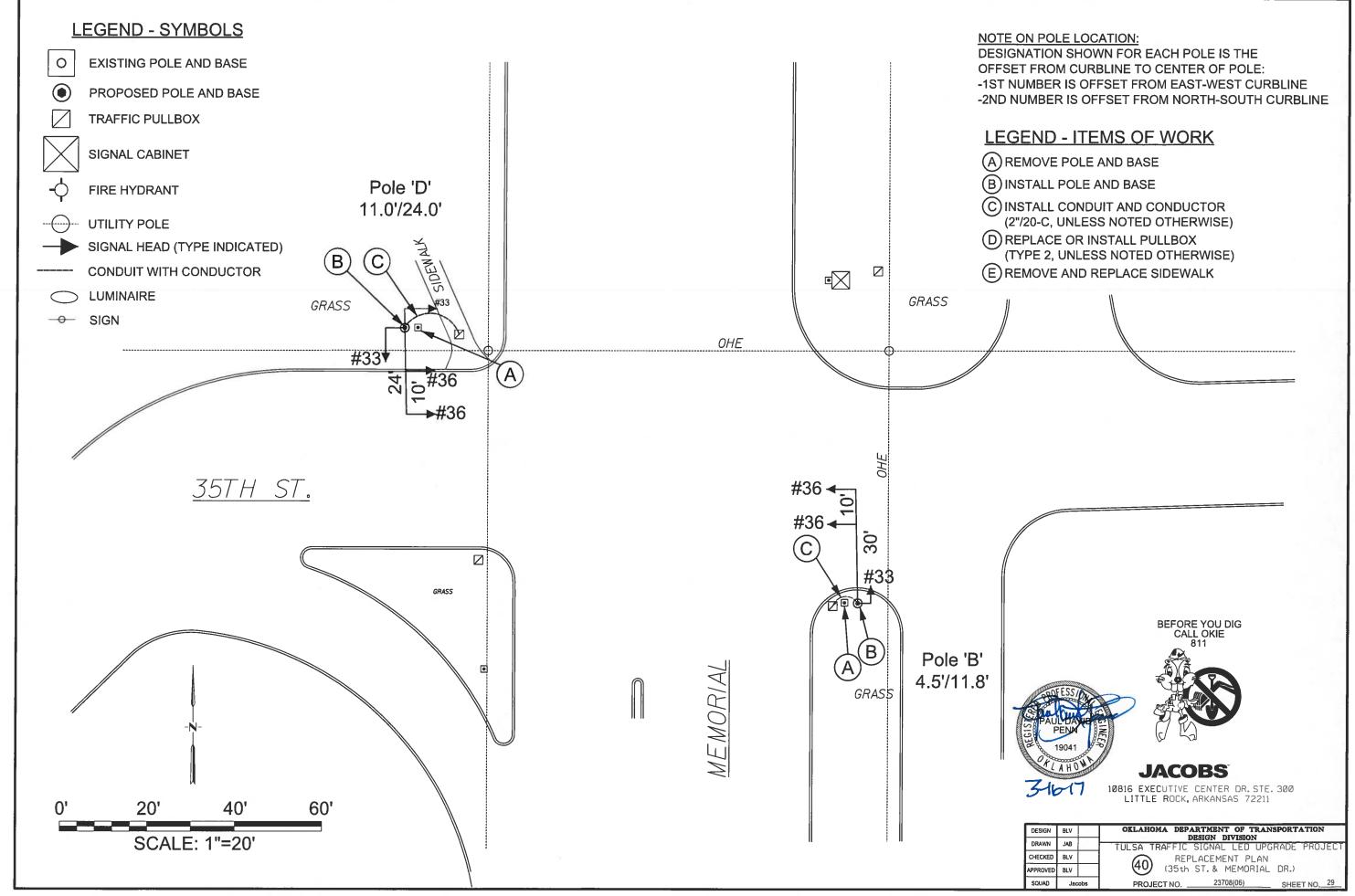
G LOT	
	OR EACH POLE IS THE E TO CENTER OF POLE: FROM EAST-WEST CURBLINE FROM NORTH-SOUTH CURBLINE RK BASE ND CONDUCTOR TED OTHERWISE) L PULLBOX TED OTHERWISE)
0HE	
D/W	
PAUL DAAL PLAN	BEFORE YOU DIG CALL OKIE 811
19041	JACOBS

10816 EXECUTIVE CENTER DR. STE. 300 LITTLE RDCK, ARKANSAS 72211

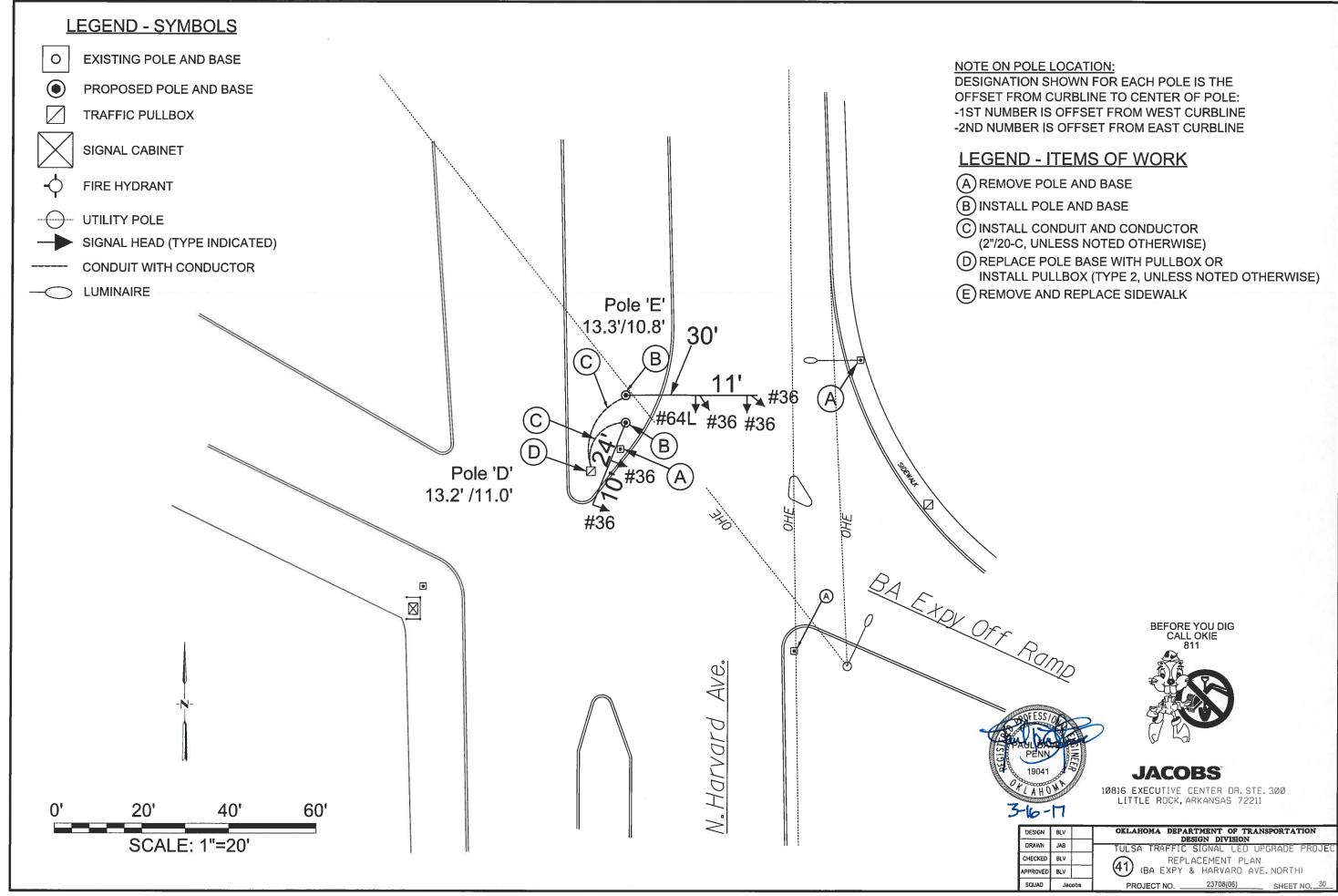
3	16	17		ETTEL NOR, HIGHNEY /2211
1	DESIGN	8LV		OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
	DRAWN	JAB		TULSA TRAFFIC SIGNAL LED UPGRADE PROJECT
	CHECKED	BLV		REPLACEMENT PLAN
	APPROVED	BLV		(37) (APACHE ST. & MLK BLVD.)
	SQUAD	Jac	obs	PROJECT NO. 23708(06) SHEET NO. 27

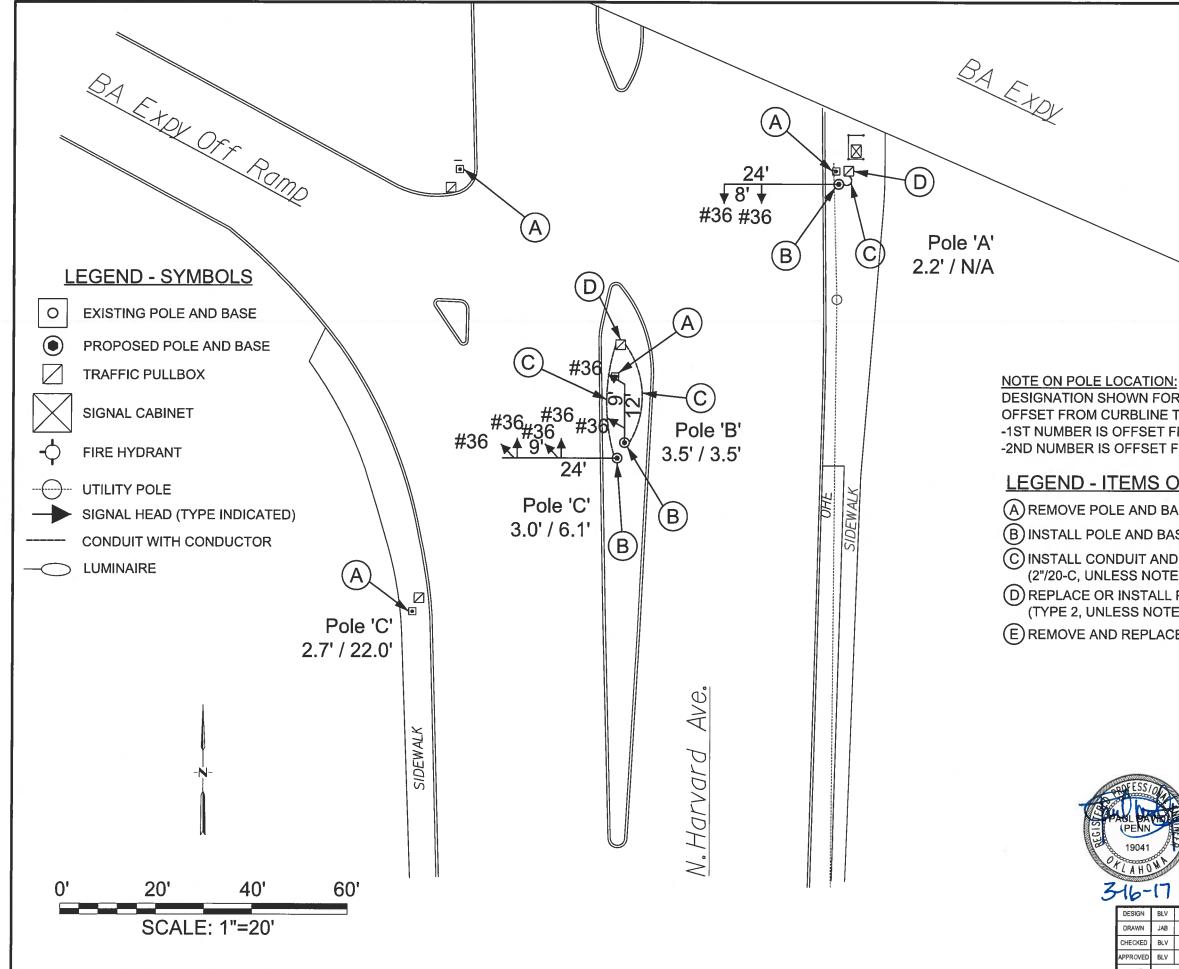
AH





TE ON POLE LOCATION:
SIGNATION SHOWN FOR EACH POLE IS THE
SET FROM CURBLINE TO CENTER OF POLE:
T NUMBER IS OFFSET FROM EAST-WEST CURBLINE
D NUMBER IS OFFSET FROM NORTH-SOUTH CURBLINE





DESIGNATION SHOWN FOR EACH POLE IS THE OFFSET FROM CURBLINE TO CENTER OF POLE: -1ST NUMBER IS OFFSET FROM EAST-WEST CURBLINE -2ND NUMBER IS OFFSET FROM NORTH-SOUTH CURBLINE

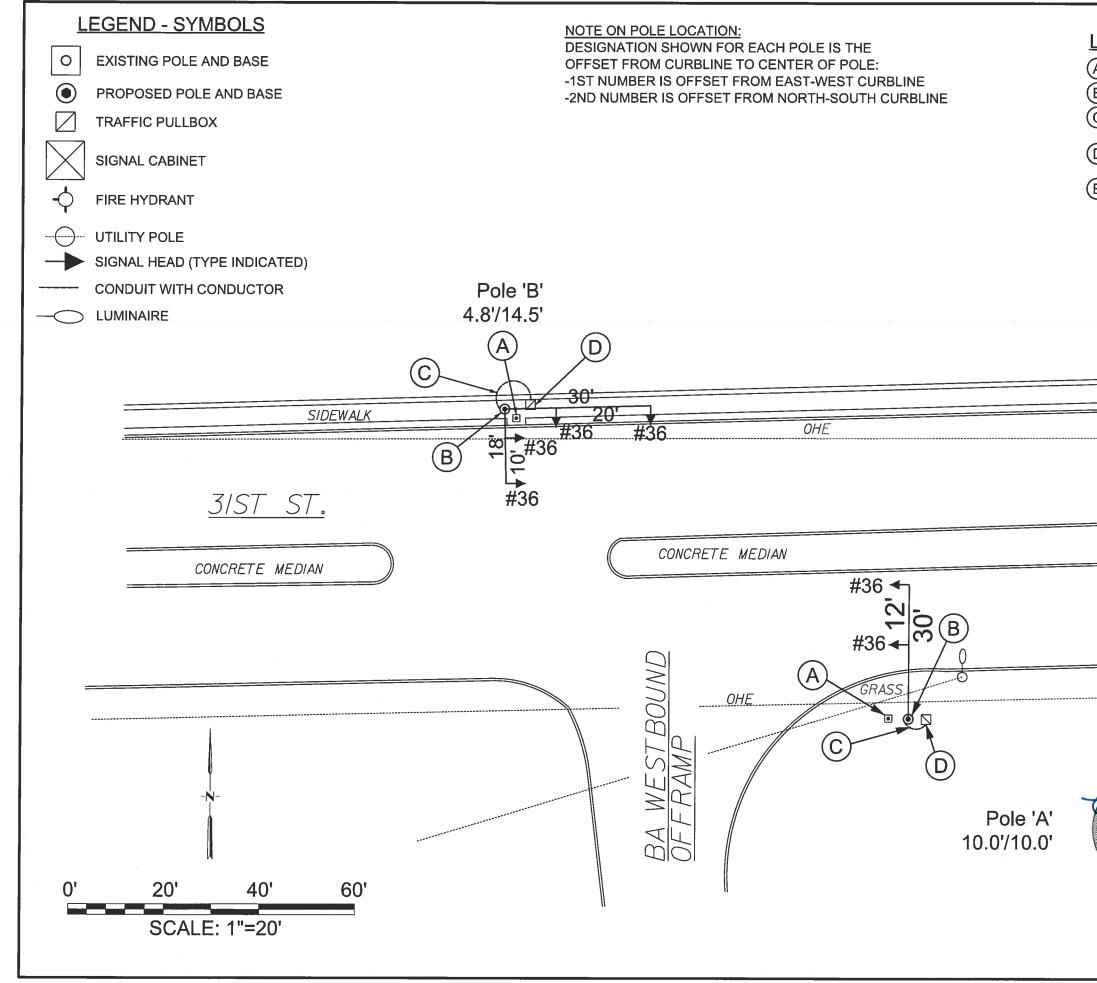
# **LEGEND - ITEMS OF WORK**

- (A) REMOVE POLE AND BASE
- (B) INSTALL POLE AND BASE

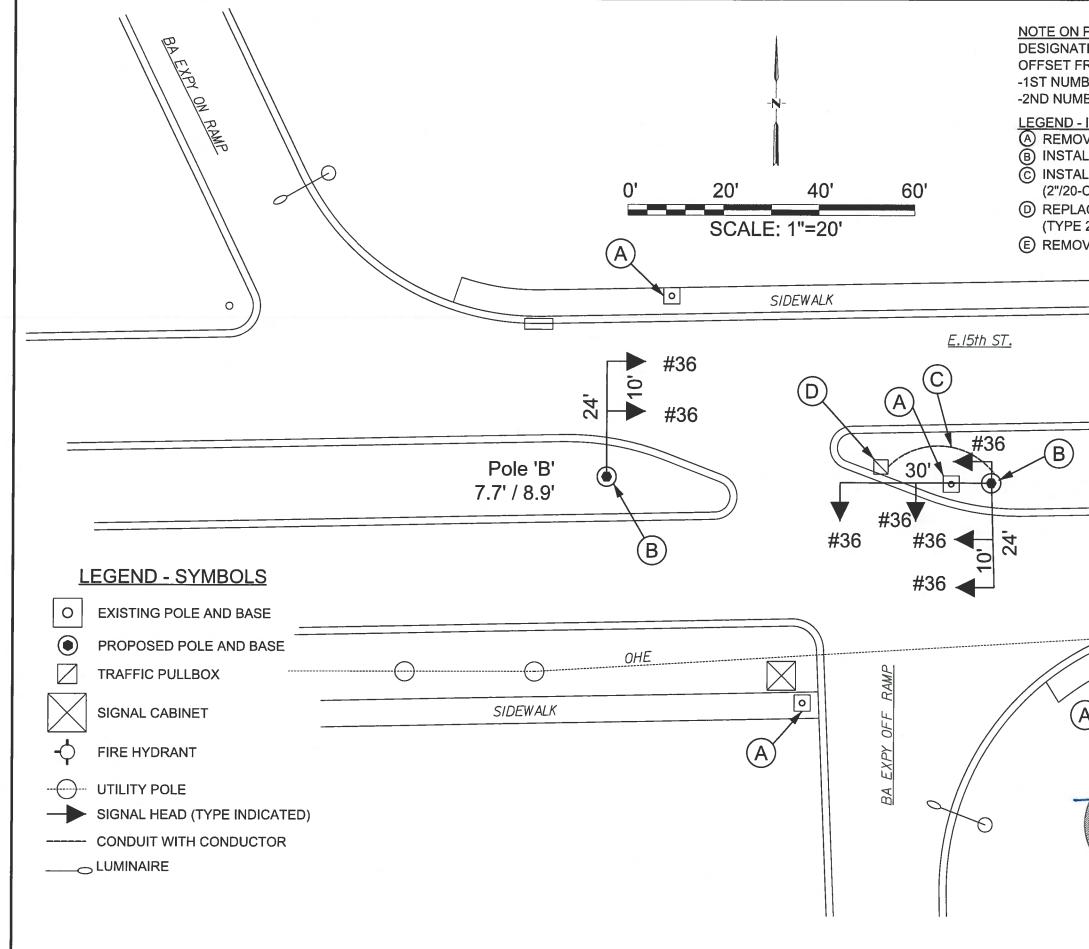
(C) INSTALL CONDUIT AND CONDUCTOR (2"/20-C, UNLESS NOTED OTHERWISE) (D) REPLACE OR INSTALL PULLBOX (TYPE 2, UNLESS NOTED OTHERWISE)

(E) REMOVE AND REPLACE SIDEWALK

Sector Sector	19041 19041		BEFORE YOU DIG 811
	DESIGN	BLV	OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
	DRAWN	JAB	TULSA TRAFFIC SIGNAL LED UPGRADE PROJEC
	CHECKED	BLV	A2 REPLACEMENT PLAN
	APPROVED	BLV	(BA EXPY & HARVARD AVE. SOUTH)
	SQUAD	Jacobs	PROJECT NO23708(06) SHEET NO



LEG	<u>EN</u>	<u>) - I</u>	ITEMS OF WORK	
AR	EMOV	E PO	DLE AND BASE	
BIN	STALI	L POL	LE AND BASE	
			NDUIT AND CONDUCTOR	
$\sim$			LESS NOTED OTHERWISE)	
			R INSTALL PULLBOX ILESS NOTED OTHERWISE)	1
$\sim$			ND REPLACE SIDEWALK	
-				
	********			
			BEFORE YOU DIG CALL OKIE	
			A A	
a line of	POFESS)	90		
A P	AULD	DIS		
	19041	INEER		
0	LAHO	H Partie	10816 EXECUTIVE CENTER DR. STE. 300	
3	-16-1	.7	LITTLE ROCK, ARKANSAS 72211	
	DESIGN	BLV	OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION	
	DRAWN CHECKED	JAB BLV	TULSA TRAFFIC SIGNAL LED UPGRADE PRO.	JEC
	APPROVED SQUAD	BLV	(31st ST. & BA EXPY WESTBOUND)	32
	SQUAD	Jacobs	bs PROJECT NOSHEET NO	



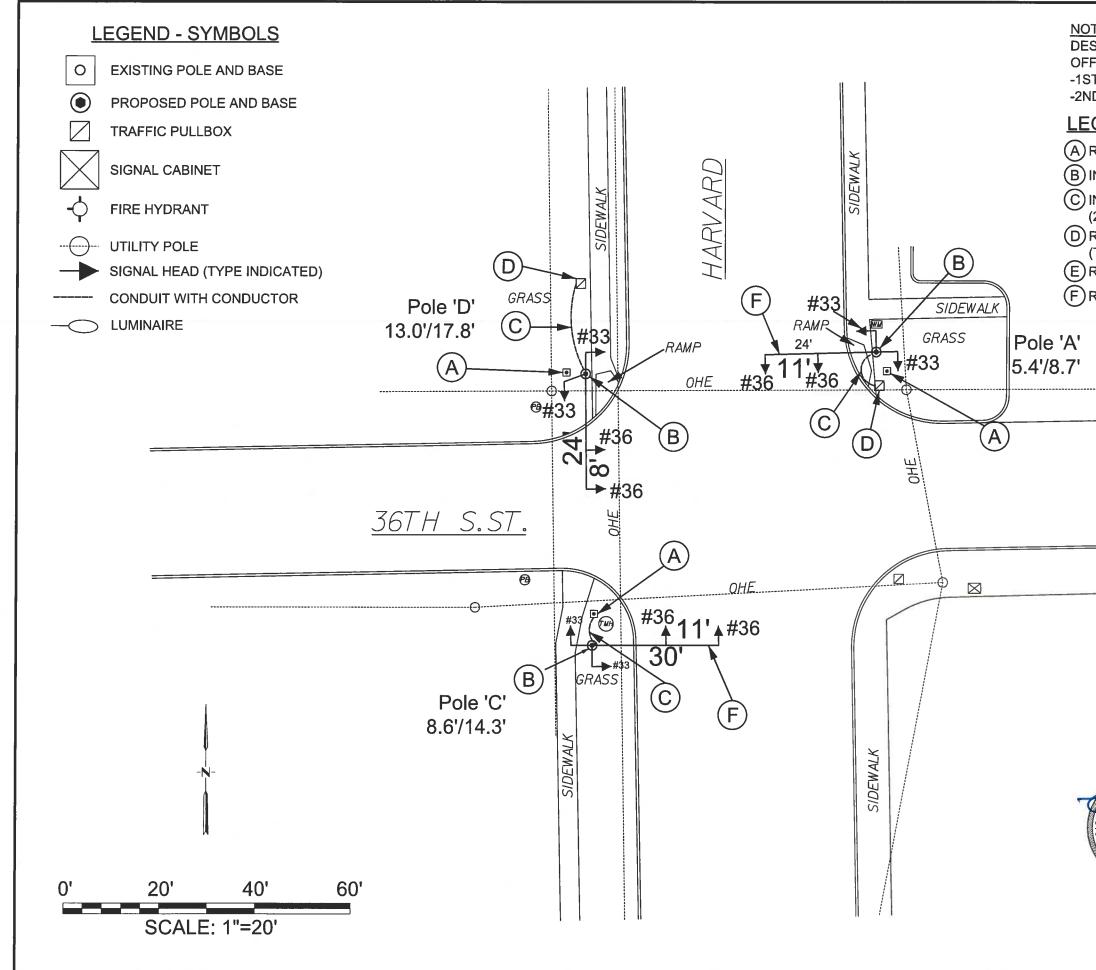
NOTE ON POLE LOCATION: DESIGNATION SHOWN FOR EACH POLE IS THE OFFSET FROM CURBLINE TO CENTER OF POLE: -1ST NUMBER IS OFFSET FROM EAST-WEST CURBLINE -2ND NUMBER IS OFFSET FROM NORTH-SOUTH CURBLINE LEGEND - ITEMS OF WORK A REMOVE POLE AND BASE (B) INSTALL POLE AND BASE © INSTALL CONDUIT AND CONDUCTOR (2"/20-C, UNLESS NOTED OTHERWISE) (D) REPLACE OR INSTALL PULLBOX (TYPE 2, UNLESS NOTED OTHERWISE) E REMOVE AND REPLACE SIDEWALK Pole 'A' 18.0'/ 5.0' STDEWALK 101 BEFORE YOU DIG CALL OKIE 811



10816 EXECUTIVE CENTER DR. STE. 300 LITTLE ROCK, ARKANSAS 72211

DESIGN	BLV		OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
DRAWN	JAB		TULSA TRAFFIC SIGNAL LED UPGRADE PROJECT
CHECKED	BLV		REPLACEMENT PLAN
APPROVED	BLV		(15th ST. & BA EXPY.)
SQUAD	Jacobs		PROJECT NO23708(06) SHEET NO33

3-16-17



NOTE ON POLE LOCATION: DESIGNATION SHOWN FOR EACH POLE IS THE OFFSET FROM CURBLINE TO CENTER OF POLE: -1ST NUMBER IS OFFSET FROM EAST-WEST CURBLINE -2ND NUMBER IS OFFSET FROM NORTH-SOUTH CURBLINE

## **LEGEND - ITEMS OF WORK**

(A) REMOVE POLE AND BASE

B INSTALL POLE AND BASE

 (C) INSTALL CONDUIT AND CONDUCTOR (2"/20-C, UNLESS NOTED OTHERWISE)
 (D) REPLACE OR INSTALL PULLBOX (TYPE 2, UNLESS NOTED OTHERWISE)
 (E) REMOVE AND REPLACE SIDEWALK

F REPLACE NO LEFT TURN SIGNS (LED)

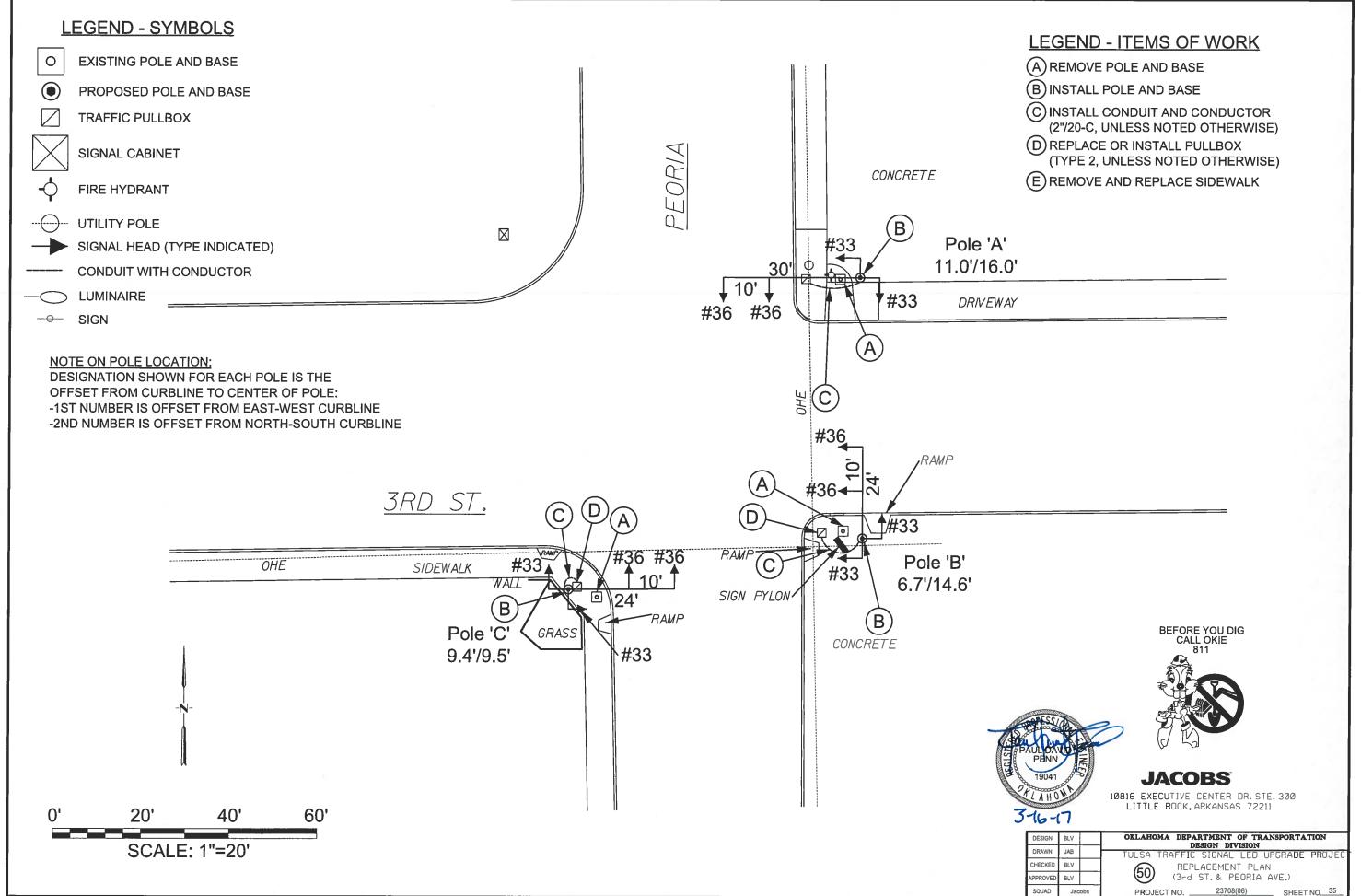
DRIVEWAY

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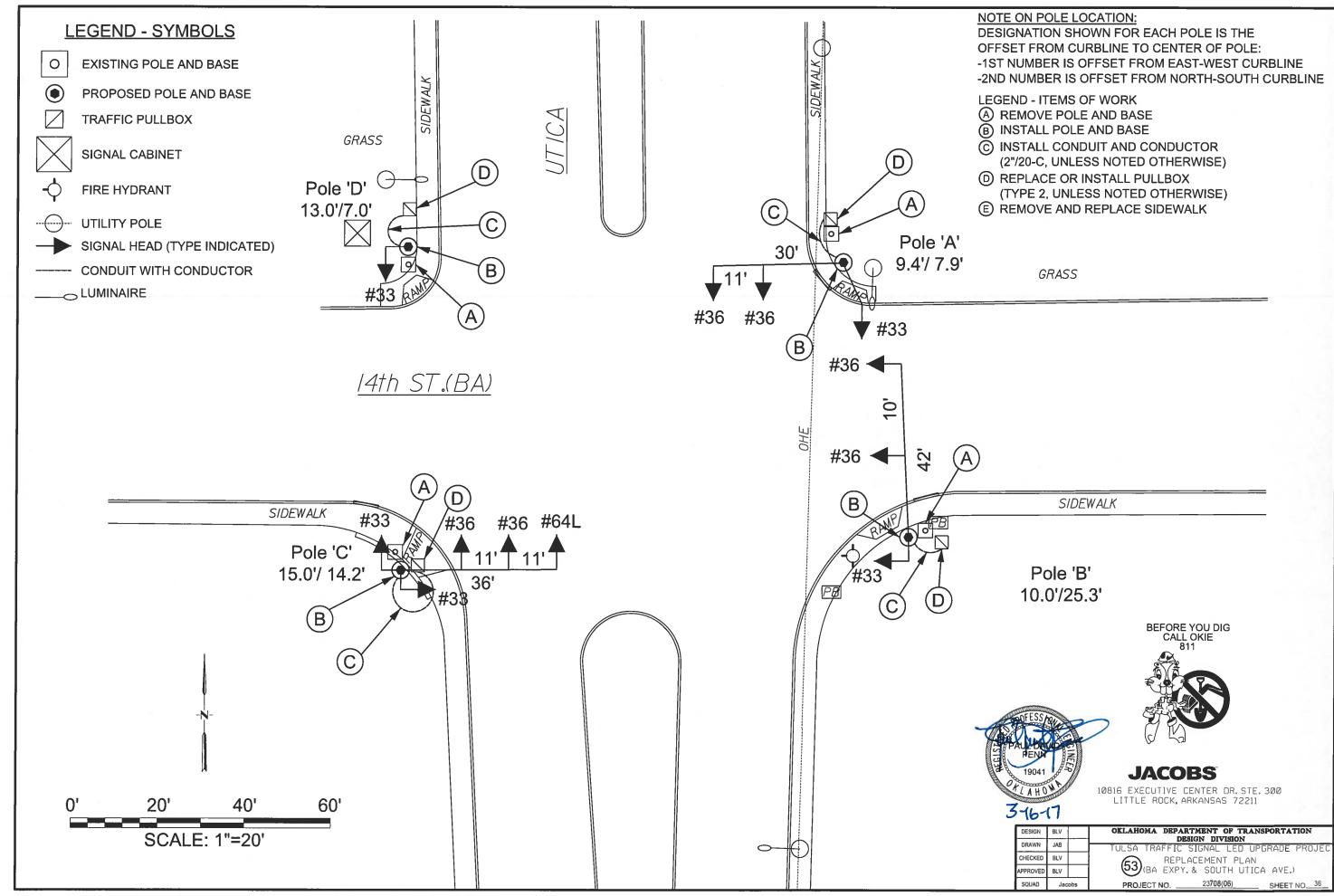
SIDEWALK

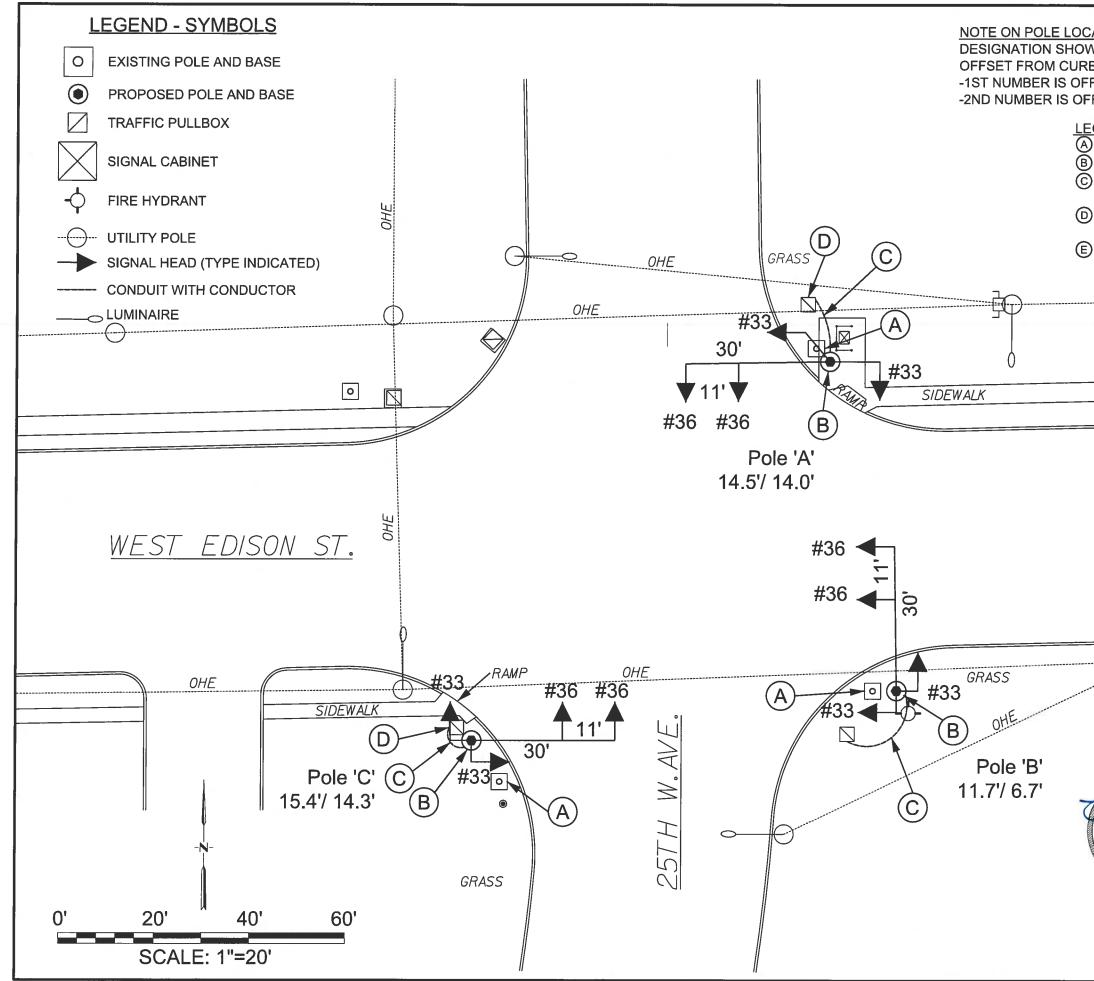


DESIGN	BLV	OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
 		DESIGN DIVISION
DRAWN	JAB	TULSA TRAFFIC SIGNAL LED UPGRADE PROJECT
-	8434	
CHECKED	BLV	REPLACEMENT PLAN
APPROVED	BLV	(36th ST. & HARVARD AVE.)
SQUAD	Jacobs	PROJECT NO. 23708(06) SHEET NO. 34
ocono	580005	FROJECTINO,STEETINO, SHEETINO,

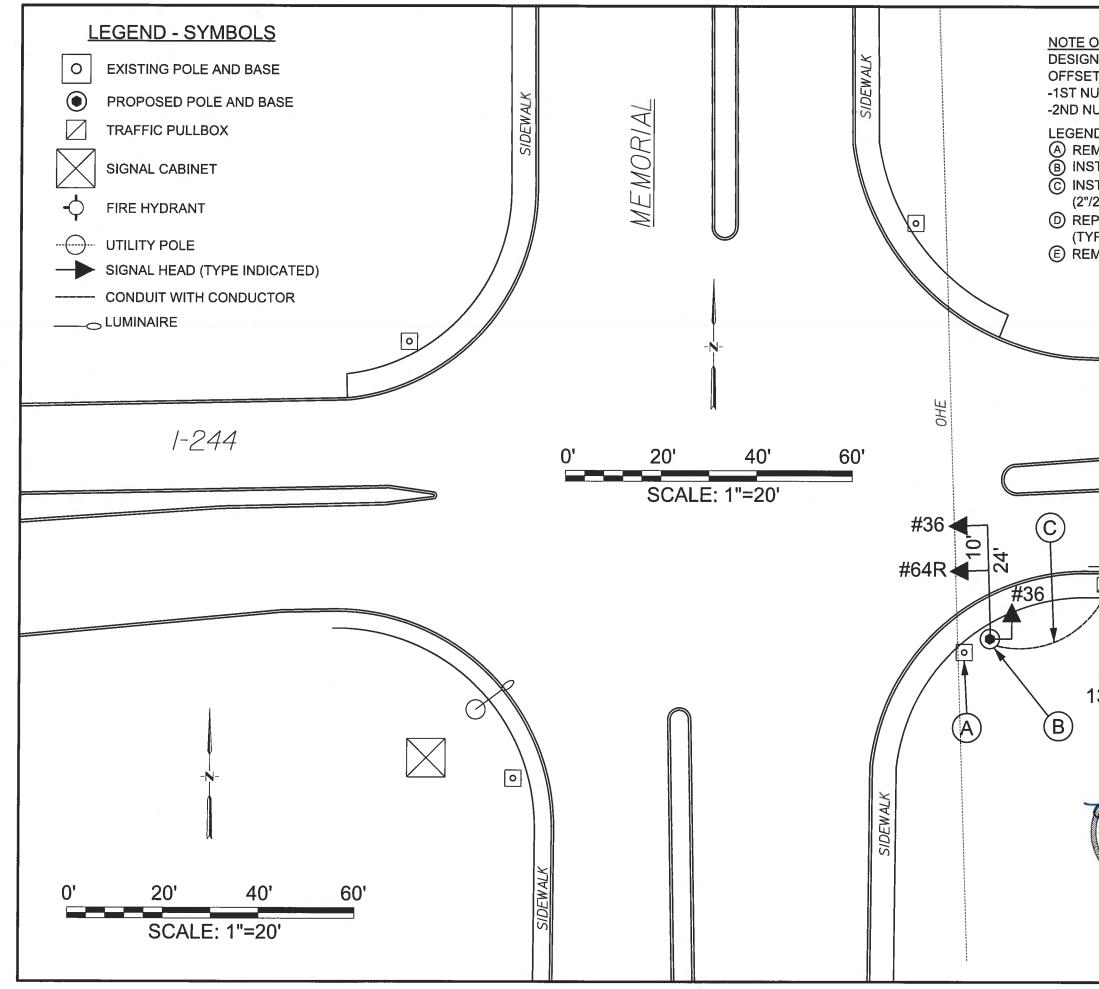


	LEGEND - ITEMS OF WORK
	A REMOVE POLE AND BASE
	B INSTALL POLE AND BASE
	<ul> <li>(C) INSTALL CONDUIT AND CONDUCTOR (2"/20-C, UNLESS NOTED OTHERWISE)</li> <li>(D) REPLACE OR INSTALL PULLBOX (TYPE 2, UNLESS NOTED OTHERWISE)</li> </ul>
	E REMOVE AND REPLACE SIDEWALK
Ţ.	



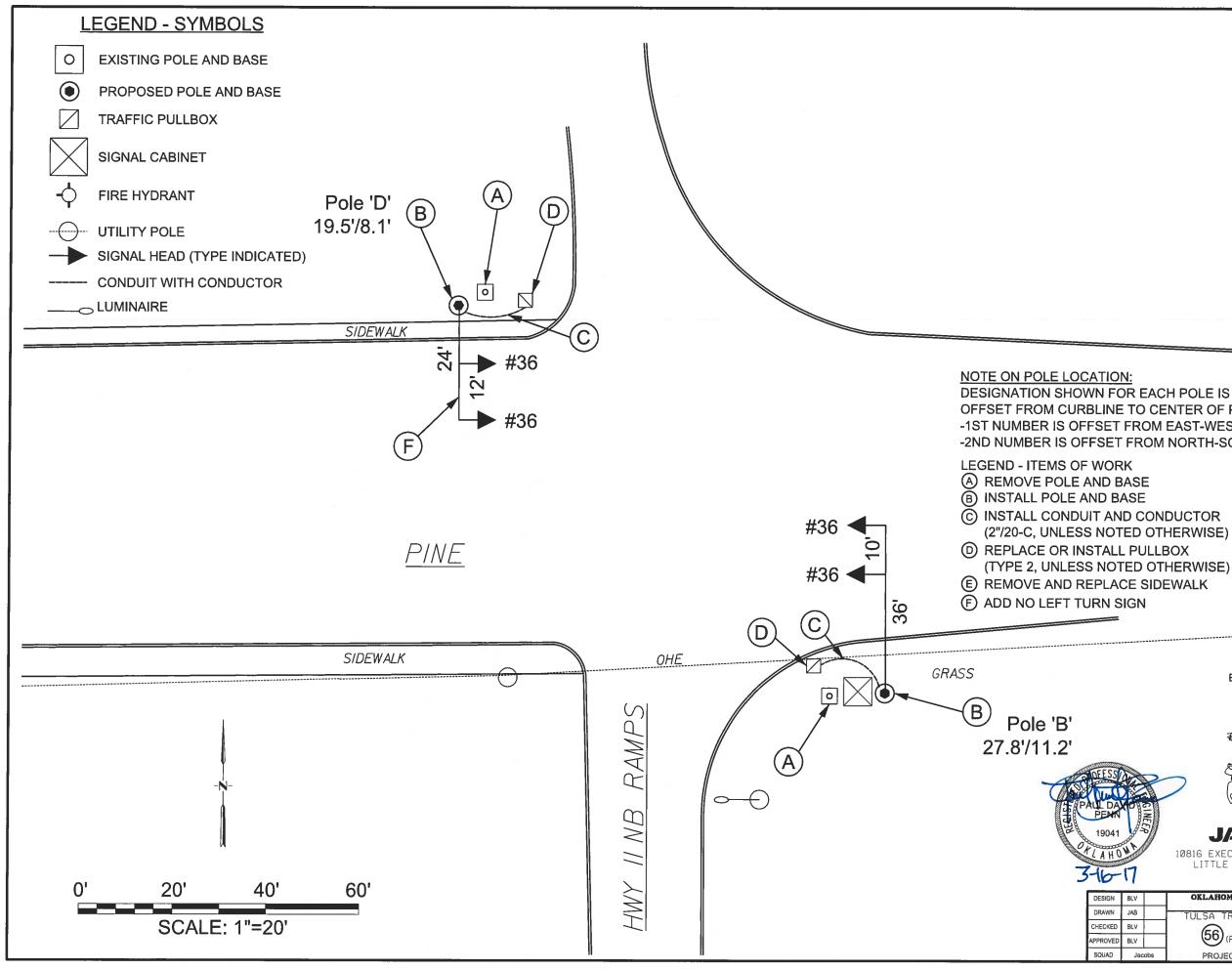


CATION:	
WN FOR EACH POL RBLINE TO CENTER	
FSET FROM EAST	
FFSET FROM NORT	TH-SOUTH CURBLINE
EGEND - ITEMS OF	
REMOVE POLE A	
) INSTALL CONDU	IT AND CONDUCTOR
(2"/20-C, UNLESS	S NOTED OTHERWISE)
	STALL PULLBOX S NOTED OTHERWISE)
	EPLACE SIDEWALK
	0HE
and the second se	BEFORE YOU DIG CALL OKIE
	811
OFFESS	
The hard	
PAULANVID	v
19041	JACOBS
A HOW	10816 EXECUTIVE CENTER DR. STE. 300 LITTLE ROCK, ARKANSAS 72211
3-16-17	
DESIGN BLV	OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
CHECKED BLV	TULSA TRAFFIC SIGNAL LED UPGRADE PROJECT
APPROVED BLV	(EDISON ST. & WEST 25 th AVE.)



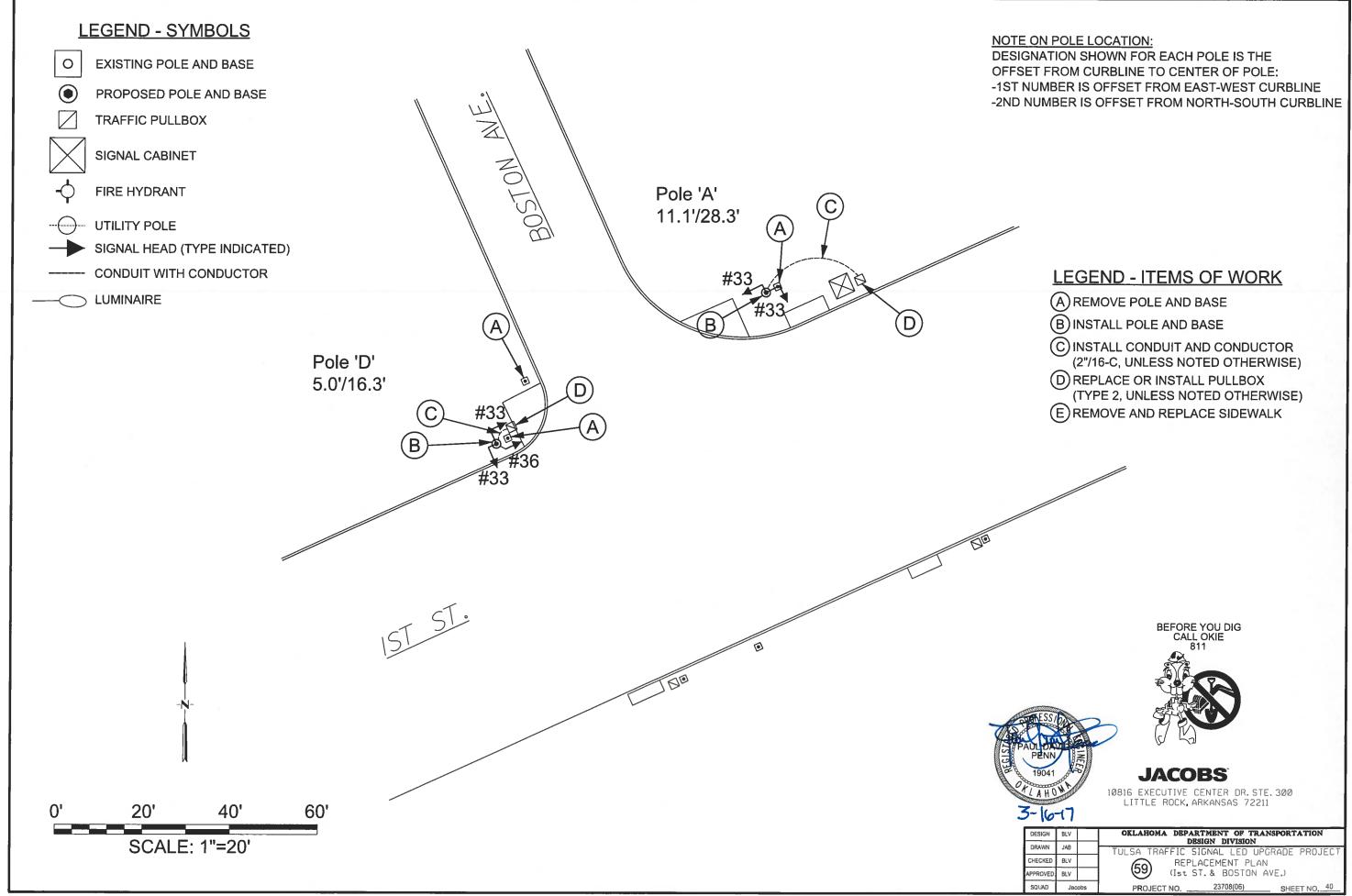
NOTE ON POLE LOCATION: DESIGNATION SHOWN FOR EACH POLE IS THE OFFSET FROM CURBLINE TO CENTER OF POLE: -1ST NUMBER IS OFFSET FROM EAST-WEST CURBLINE -2ND NUMBER IS OFFSET FROM NORTH-SOUTH CURBLINE LEGEND - ITEMS OF WORK A REMOVE POLE AND BASE (B) INSTALL POLE AND BASE (C) INSTALL CONDUIT AND CONDUCTOR (2"/20-C, UNLESS NOTED OTHERWISE) D REPLACE OR INSTALL PULLBOX (TYPE 2, UNLESS NOTED OTHERWISE) (E) REMOVE AND REPLACE SIDEWALK D

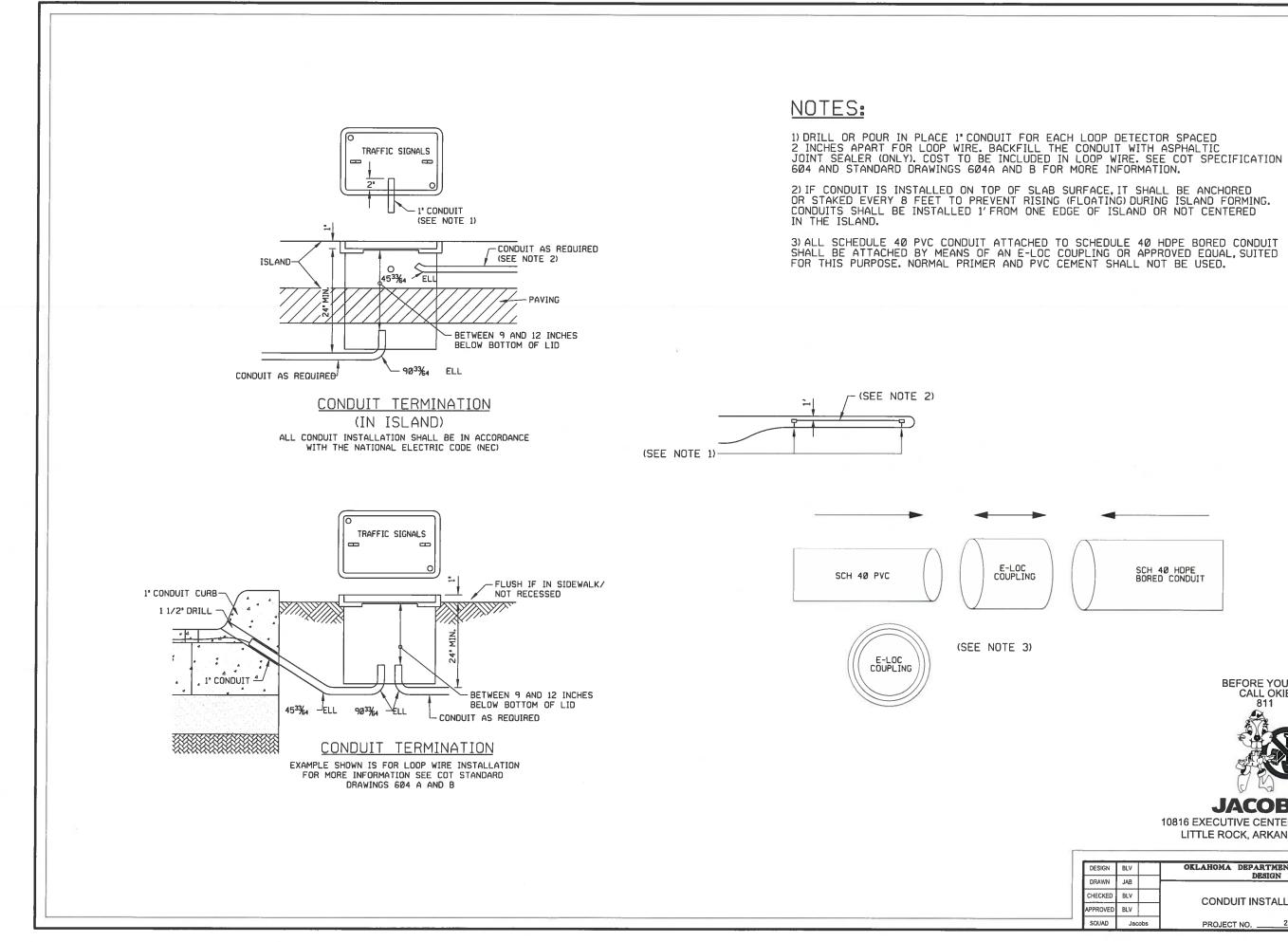
Pole 'B' BEFORE YOU DIG CALL OKIE 13.8'/24.3' 811 **JACOBS** 10816 EXECUTIVE CENTER DR. STE. 300 LITTLE ROCK, ARKANSAS 72211 AH 3-16-17 OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION TULSA TRAFFIC SIGNAL LED UPGRADE PROJECT DESIGN BLV DRAWN JAB HECKED BLV 55 REPLACEMENT PLAN (I-244 & MEMORIAL DR.) PROVED BLV SQUAD 23708(06) PROJECT NO. Jacobs SHEET NO.\_\_38



	EPLAC		EWALK
B' 2'	DEESS AUL DA PEAN 19041 1 A H O		BEFORE YOU DIG 811 Viceococococococococococococococococococo
	DESIGN	BLV	OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
	DRAWN	JAB	TULSA TRAFFIC SIGNAL LED UPGRADE PROJECT
	CHECKED	BLV	56 REPLACEMENT PLAN
	APPROVED	BLV	(PINE ST. & HWY. 11 HB RAMPS)
	SQUAD	Jacobs	PROJECT NO23708(06) SHEET NO39

DESIGNATION SHOWN FOR EACH POLE IS THE OFFSET FROM CURBLINE TO CENTER OF POLE: -1ST NUMBER IS OFFSET FROM EAST-WEST CURBLINE -2ND NUMBER IS OFFSET FROM NORTH-SOUTH CURBLINE

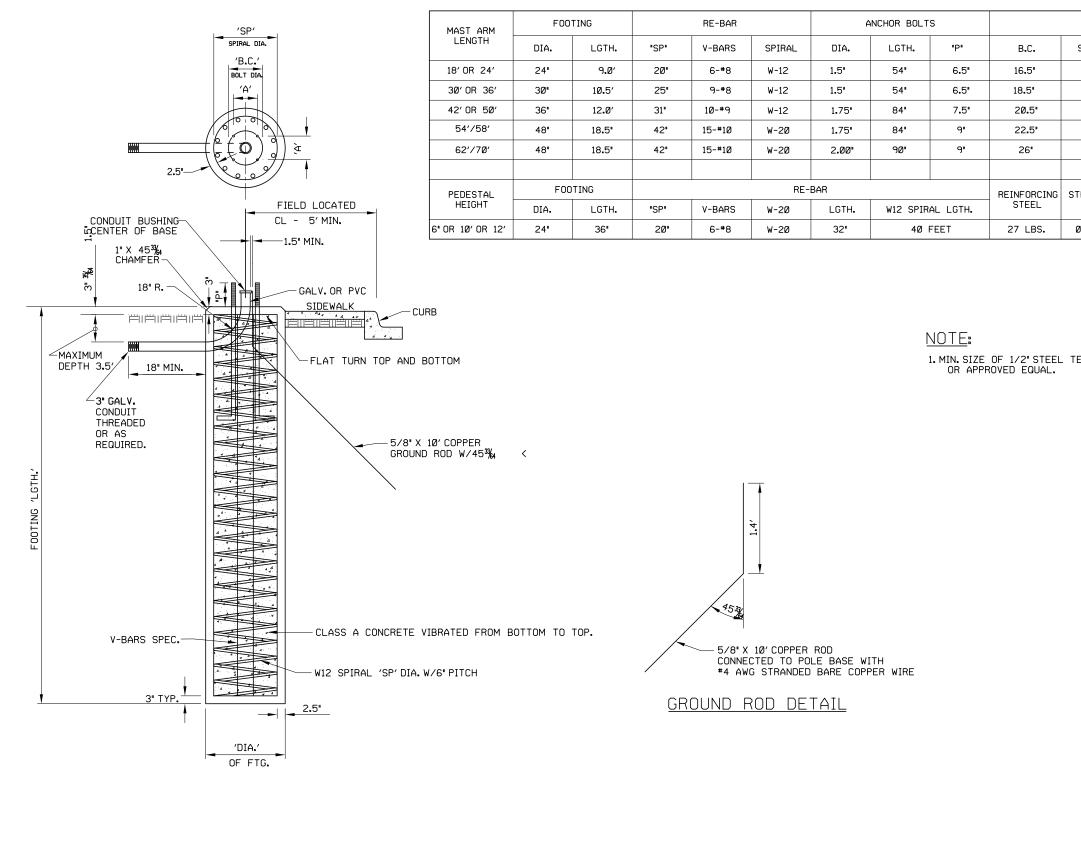






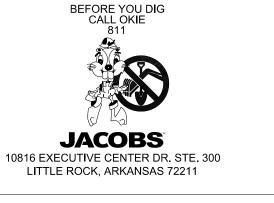
1			
	DESIGN	BLV	OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
	DRAWN	JAB	DESIGN DIVISION
1	DIGANNA	JAD	
	CHECKED	BLV	CONDUIT INSTALLATION STD. 602
	APPROVED	BLV	CONDOIT INSTALLATION STD. 802
_	SQUAD	Jacobs	PROJECT NO

# MAST ARM BASE AND PEDESTAL BASE

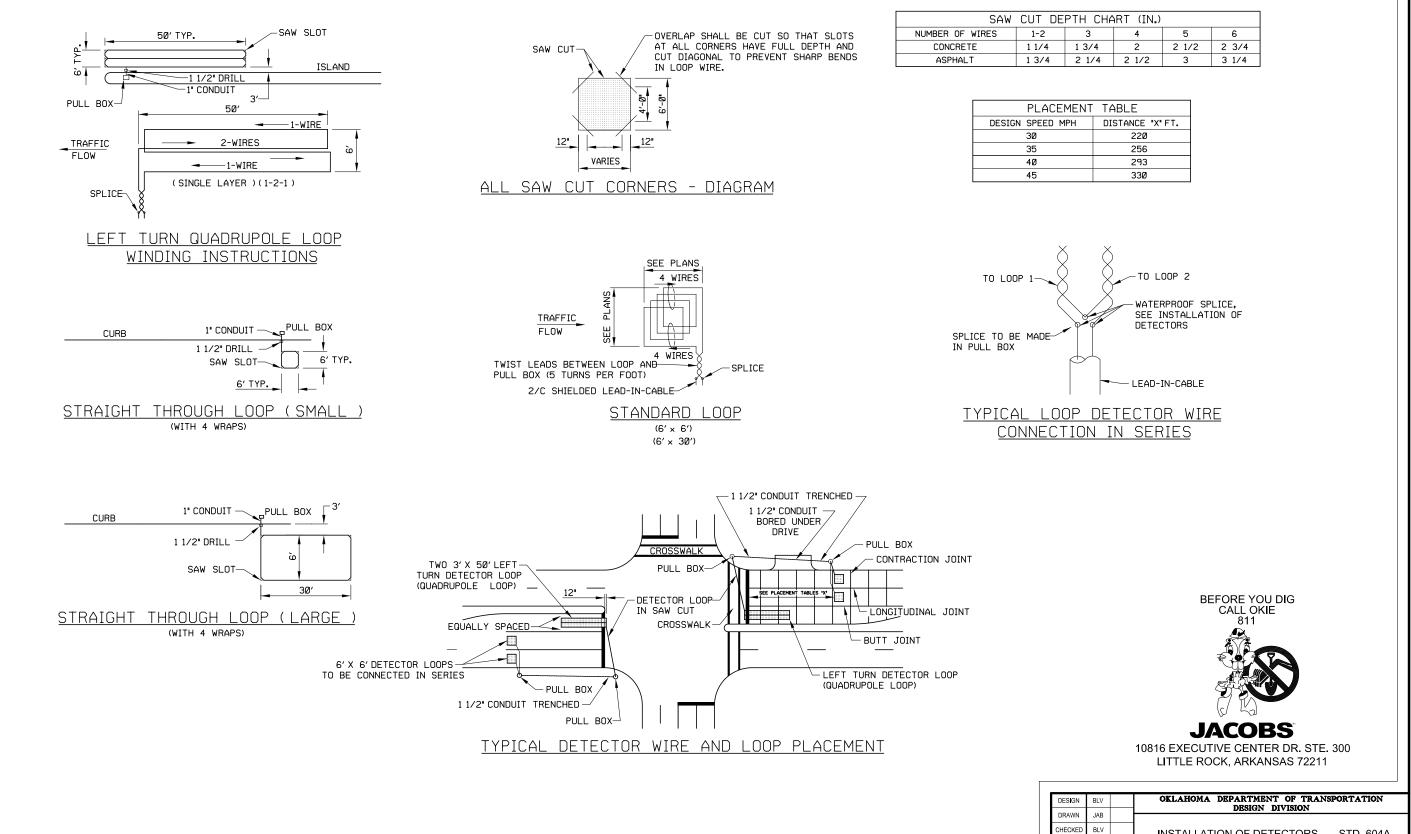


TEMPLATE					
"A"			B. HOLE	DESIGN NO.	
1	1-11/16"		1.625"	S-18/24	
13-1/16"			1.625"	S-3Ø/36	
14-1/2"			1.875"	S-42/50	
15-15/16"			2.00"	S-54/58	
18-3/8"			2.25"	S-62/7Ø	
		R	BOLTS		
CONC. DIA.			LGTH.		
	3/4"		8"	F-1	
	1	"A" 11-11/16" 13-1/16" 14-1/2" 15-15/16" 18-3/8" L ANCHO DIA.	"A" 11-11/16" 13-1/16" 14-1/2" 15-15/16" 18-3/8" L ANCHOR DIA.	A* B. HOLE 11-11/16* 1.625* 13-1/16* 1.625* 14-1/2* 1.875* 15-15/16* 2.00* 18-3/8* 2.25* ANCHOR BOLTS DIA. LGTH.	

1. MIN. SIZE OF 1/2" STEEL TEMPLATE WITH 6" MIN. CENTER HOLE



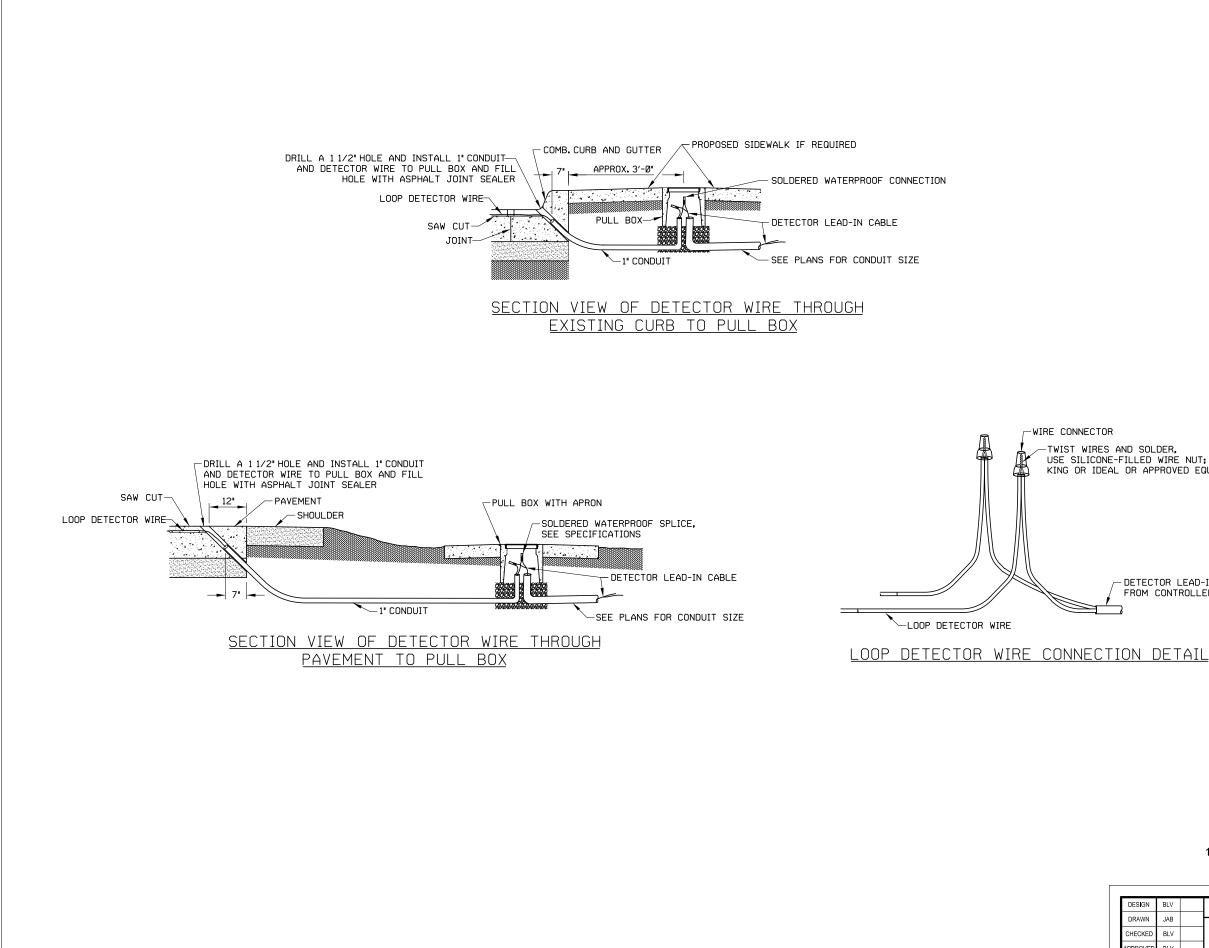
	DESIGN	BLV		OKLAHOMA DEPART		PORTATION
	DRAWN	JAB		DEGR		
	CHECKED	BLV		SIGNAL POLE FOO	TING DETAILS	STD. 603
	APPROVED	BLV				0.01 000
J	SQUAD	Jac	obs	PROJECT NO.	23708(06)	SHEET NO, 42



CUT DEPTH CHART (IN.)					
1-2	3 4		5	6	
1 1/4	1 3/4	2	2 1/2	2 3/4	
1 3/4 2 1/4		2 1/2	3	3 1/4	

PLACEMENT	TABLE
SPEED MPH	DISTANCE "X" FT.
3Ø	22Ø
35	256
40	293
45	33Ø

DESIGN	BLV				SPORTATION
DRAWN	JAB		DB3.		
CHECKED	BLV		INSTALLATION OF	DETECTORS	STD. 604A
APPROVED	BLV			BEIEGIGING	0101001/1
SQUAD	Jac	obs	PROJECT NO.	23708(06)	SHEET NO, 43
	DRAWN CHECKED APPROVED	DRAWN JAB CHECKED BLV APPROVED BLV	DRAWN JAB CHECKED BLV APPROVED BLV	DRAWN JAB CHECKED BLV APPROVED BLV INSTALLATION OF	DRAWN JAB CHECKED BLV APPROVED BLV CHECKED BLV CHECKED BLV CHECKED BLV CHECKED BLV CHECKED BLV CHECKED BLV CHECKED BLV CHECKED



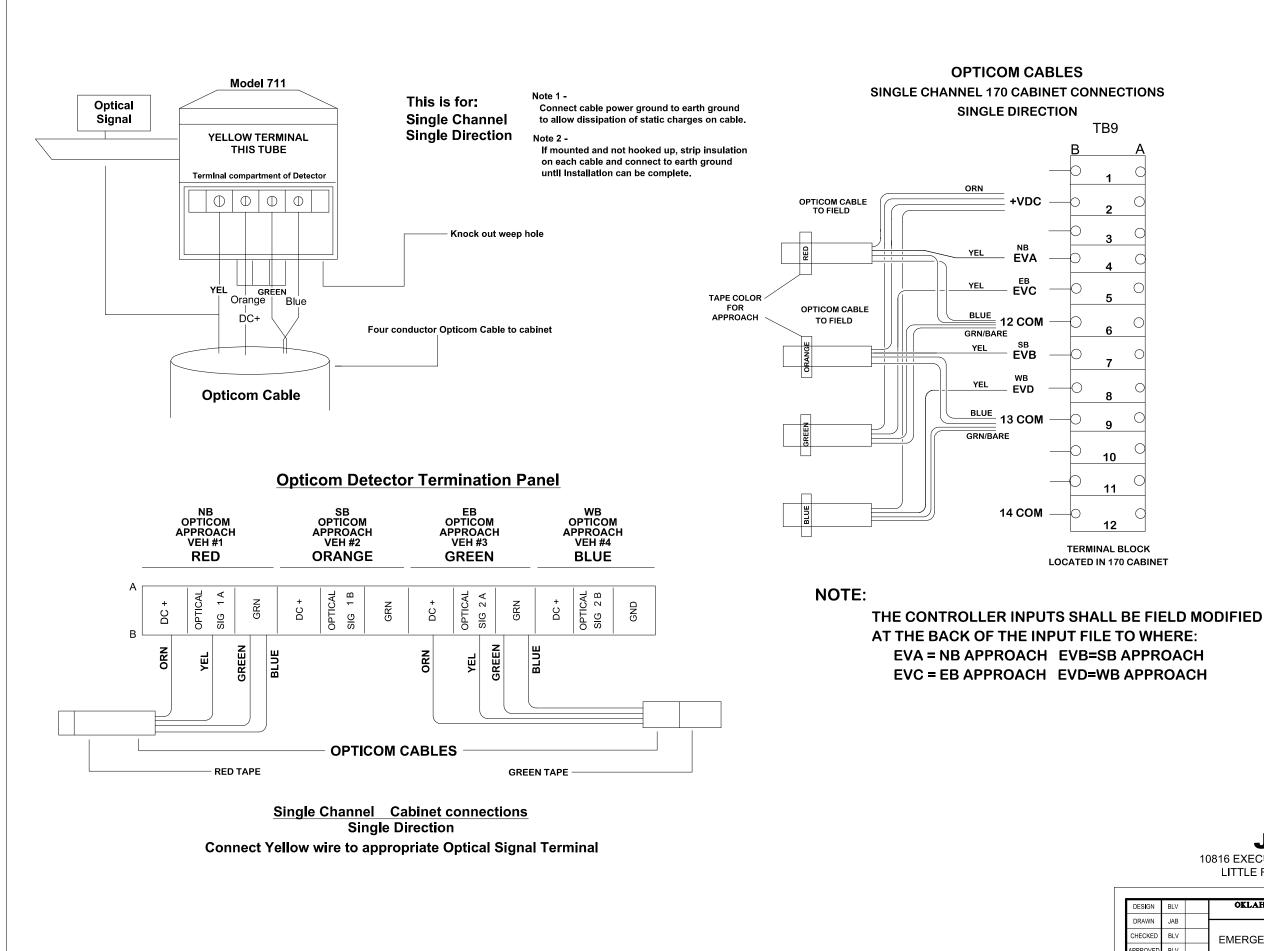
1	DESIGN	BLV		OKLAHOMA DEPAR	TMENT OF TRANS	PORTATION
	DRAWN	JAB		DES	IGN DIVISION	
	CHECKED	BLV		DETECTOR WIRE		STD, 604B
	APPROVED	BLV				0.010040
	SQUAD	Jac	obs	PROJECT NO.	23708(06)	SHEET NO. 44



BEFORE YOU DIG CALL OKIE 811

- DETECTOR LEAD-IN CABLE FROM CONTROLLER

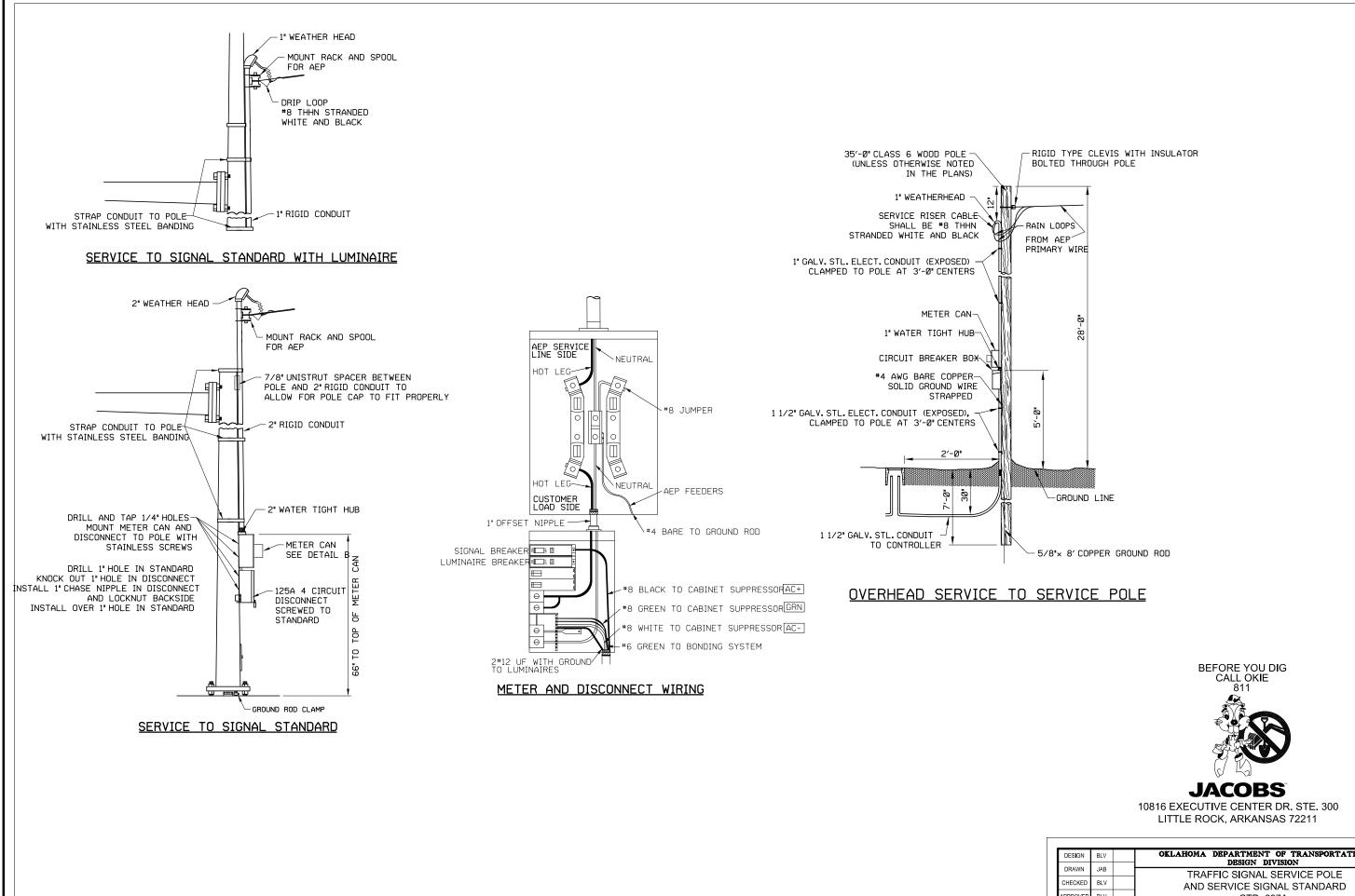
-TWIST WIRES AND SOLDER, USE SILICONE-FILLED WIRE NUT; KING OR IDEAL OR APPROVED EQUAL.



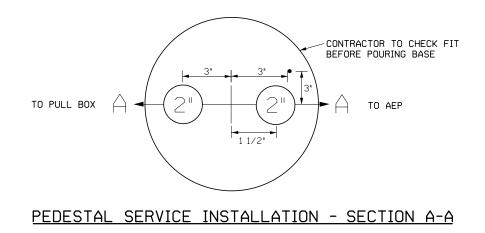


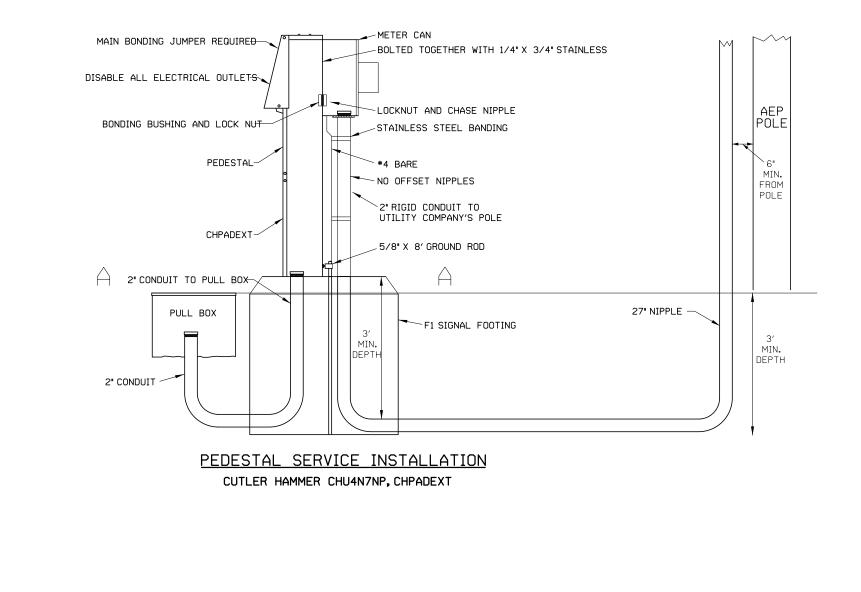
## JACOBS

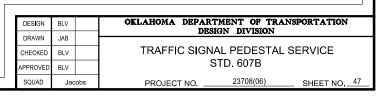
DESIGN	BLV			RTMENT OF TRANS	PORTATION
DRAWN	JAB			SIGN DIVISION	
CHECKED	BLV		EMERGENCY PRE-F	MPTION DETAIL	STD, 606
APPROVED	BLV				0.21000
SQUAD	Jac	cobs	PROJECT NO.	23708(06)	SHEET NO, 45



	DESIGN	BLV	OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
	DRAWN	JAB	TRAFFIC SIGNAL SERVICE POLE
	CHECKED	BLV	AND SERVICE SIGNAL STANDARD
	APPROVED	BLV	STD. 607A
_	SQUAD	Jacobs	PROJECT NO SHEET NO







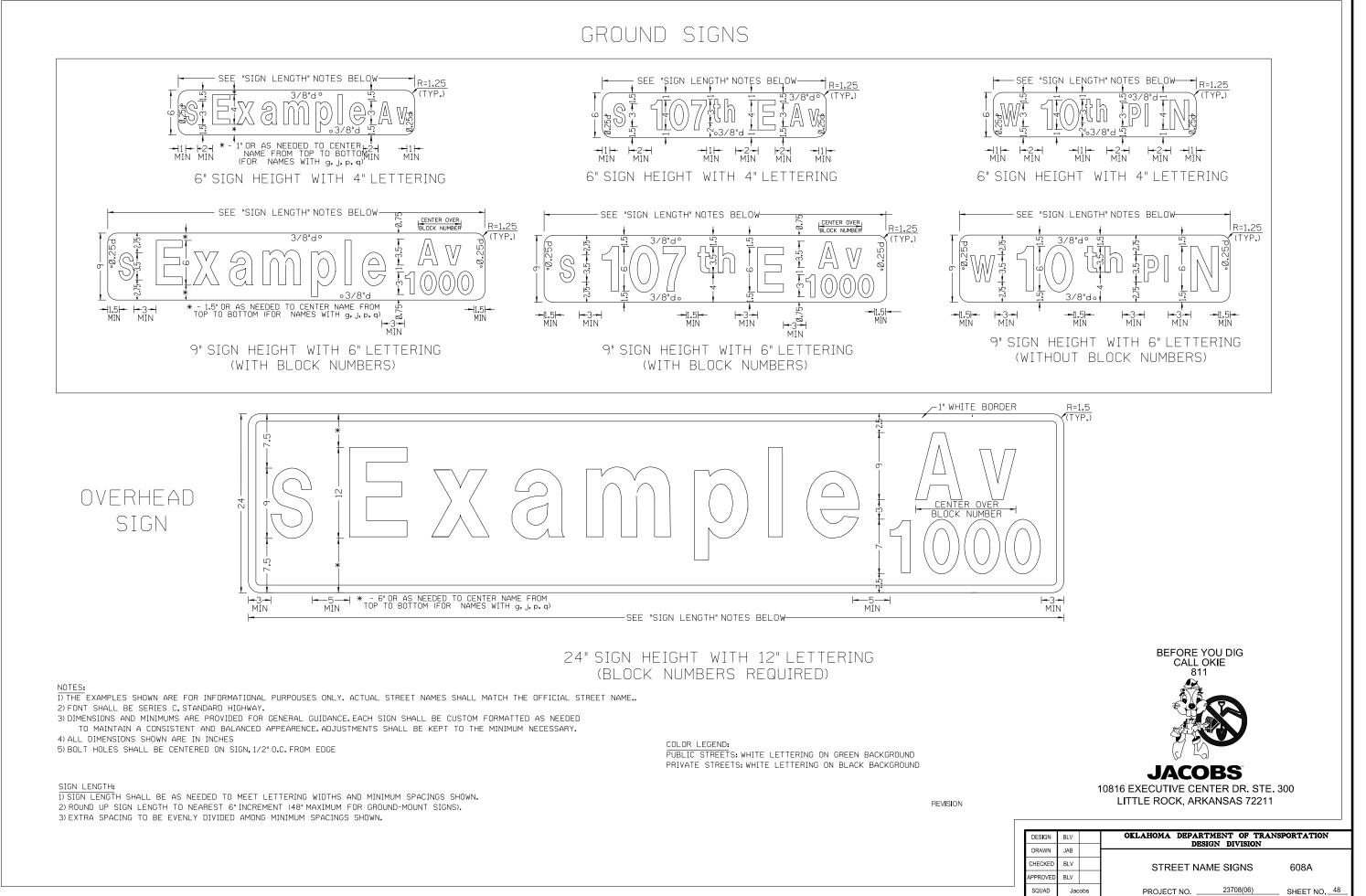
**JACOBS** 

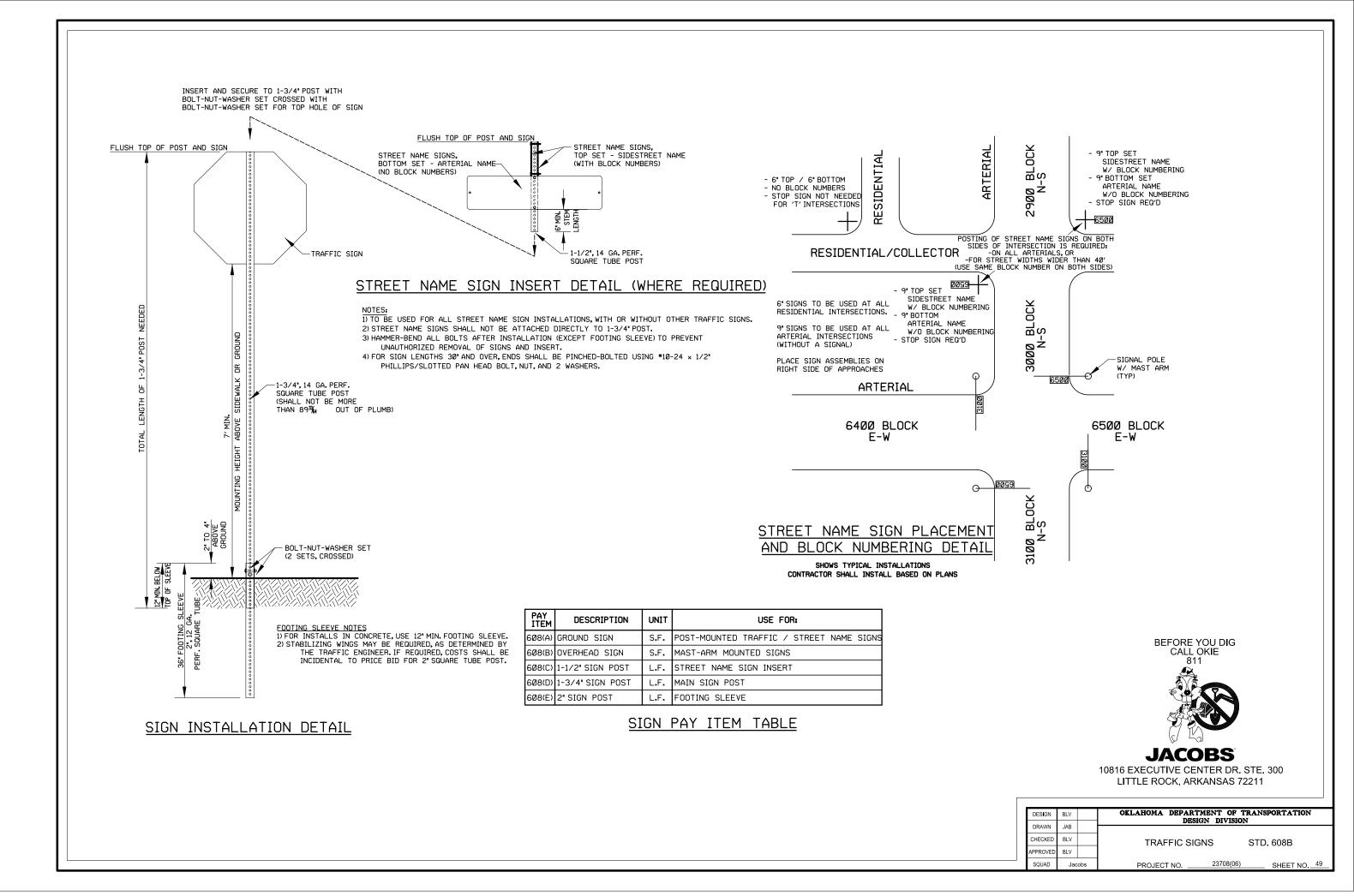
10816 EXECUTIVE CENTER DR. STE. 300

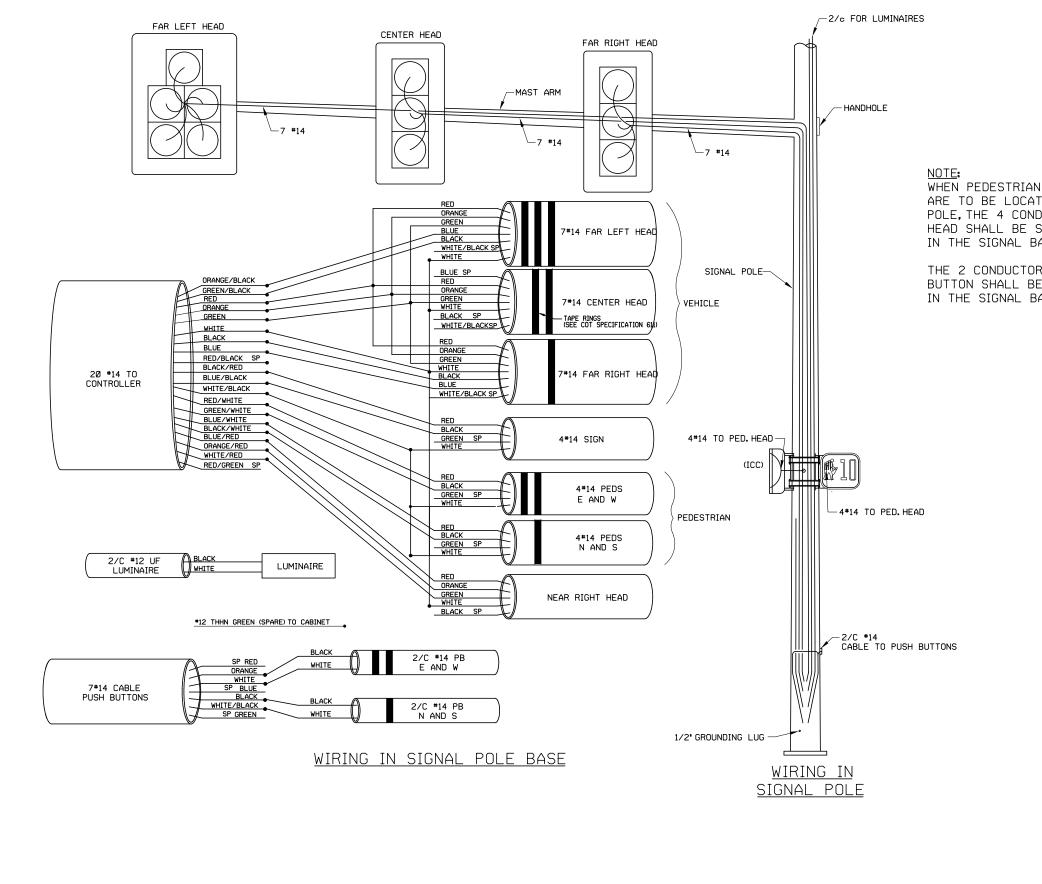
LITTLE ROCK, ARKANSAS 72211

BEFORE YOU DIG CALL OKIE

811





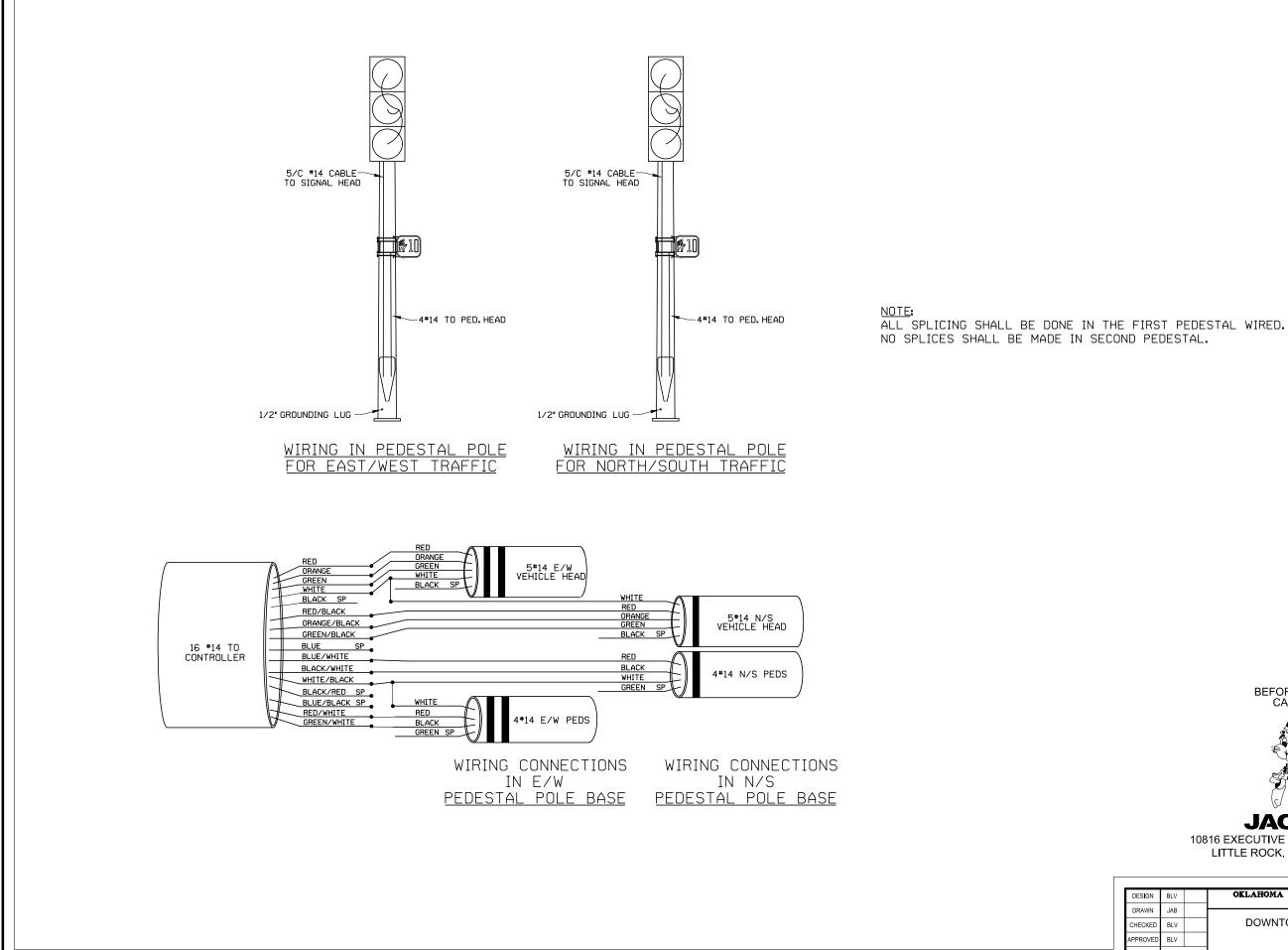


WHEN PEDESTRIAN HEADS AND PUSH BUTTONS ARE TO BE LOCATED ON SEPERATE PEDESTAL POLE, THE 4 CONDUCTOR FOR THE PEDESTRIAN HEAD SHALL BE SPLICED TO THE 20 CONDUCTOR IN THE SIGNAL BASE AND RAN TO THE PEDESTAL

THE 2 CONDUCTOR FOR THE PEDESTRIAN PUSH BUTTON SHALL BE SPLICED TO THE 7 CONDUCTOR IN THE SIGNAL BASE AND RAN TO THE PEDESTAL.

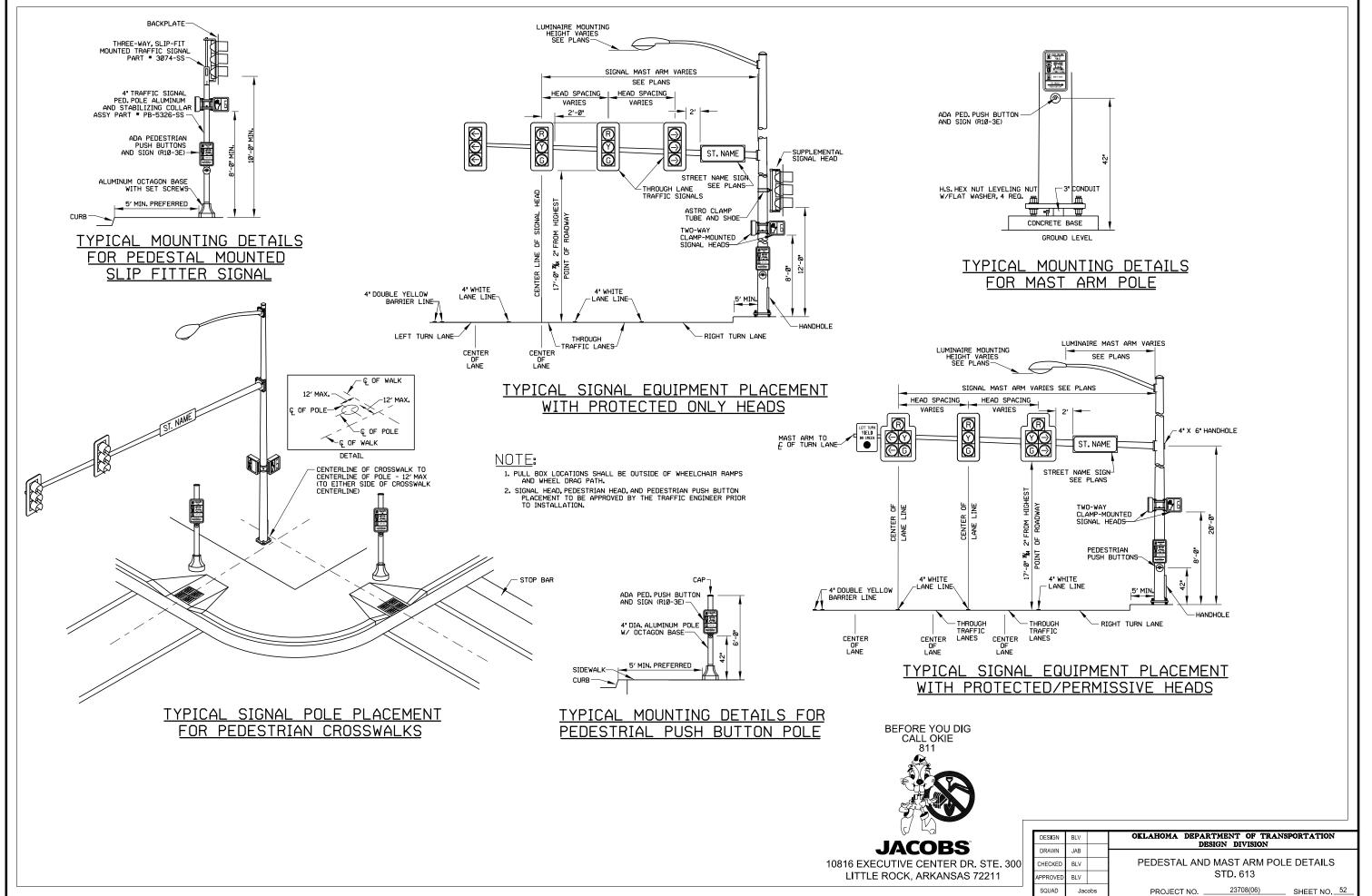


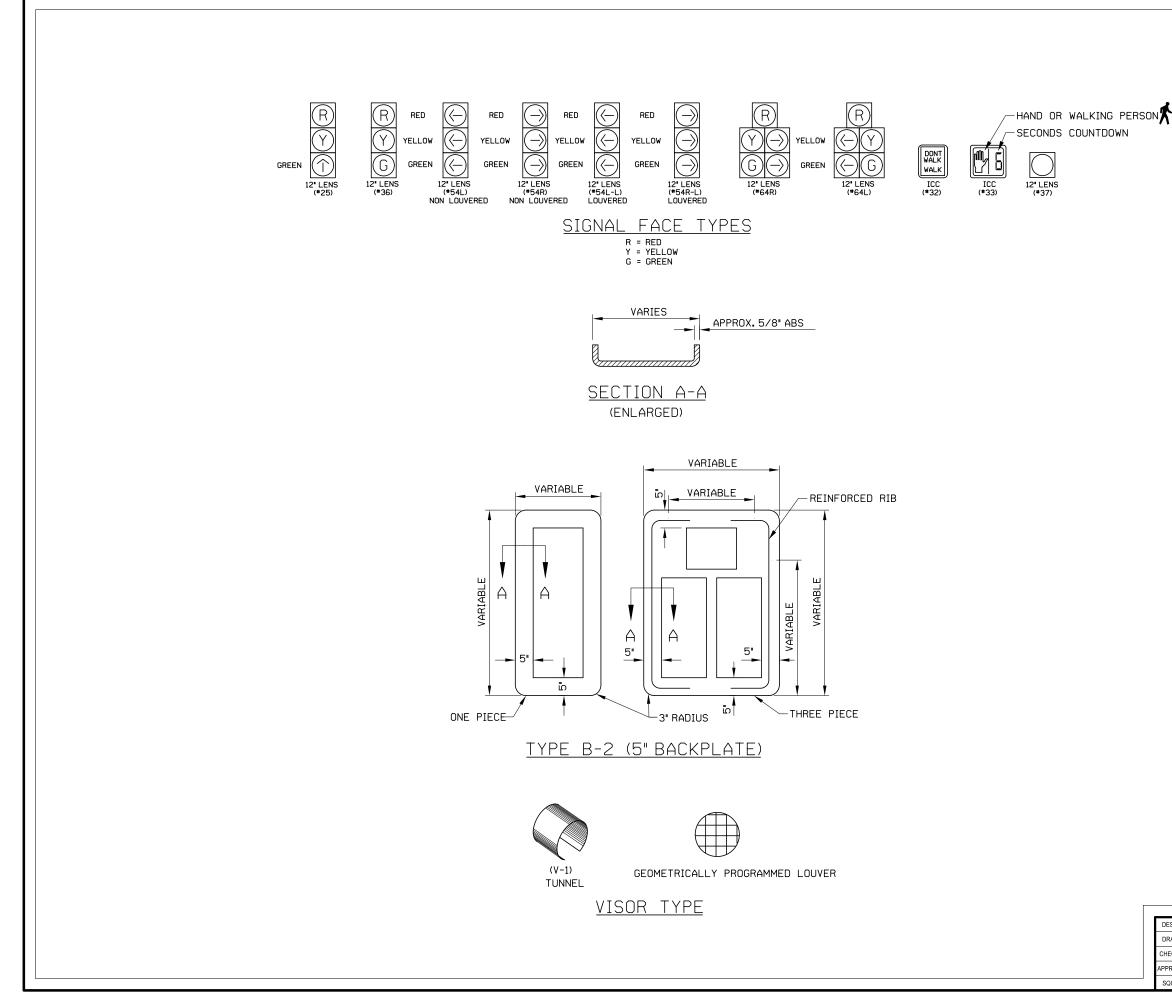
	DESIGN	BLV		OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION
	DRAWN	JAB		
	CHECKED	BLV		POLE WIRING DETAIL STD. 611A
	APPROVED	BLV		
1	SQUAD	Jaco	obs	PROJECT NO23708(06) SHEET NO50





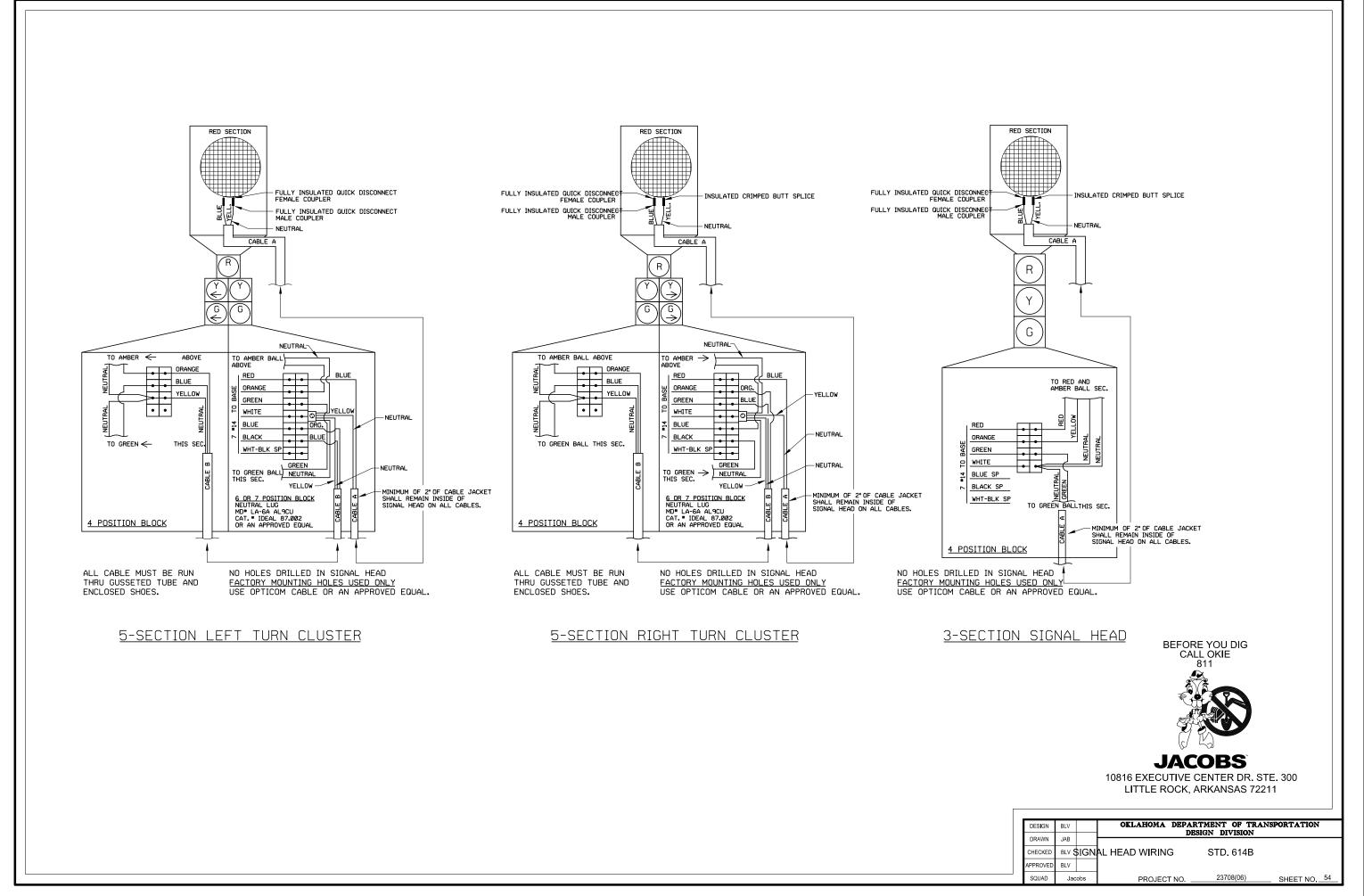
DESIGN	BLV		OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION				
DRAWN	JAB						
CHECKED	BLV		DOWNTOWN PEDESTAL WIRING DETAIL				
APPROVED	BLV	STD. 611B					
SQUAD	Jac	obs	PROJECT NO23708(06) SHEET NO51				

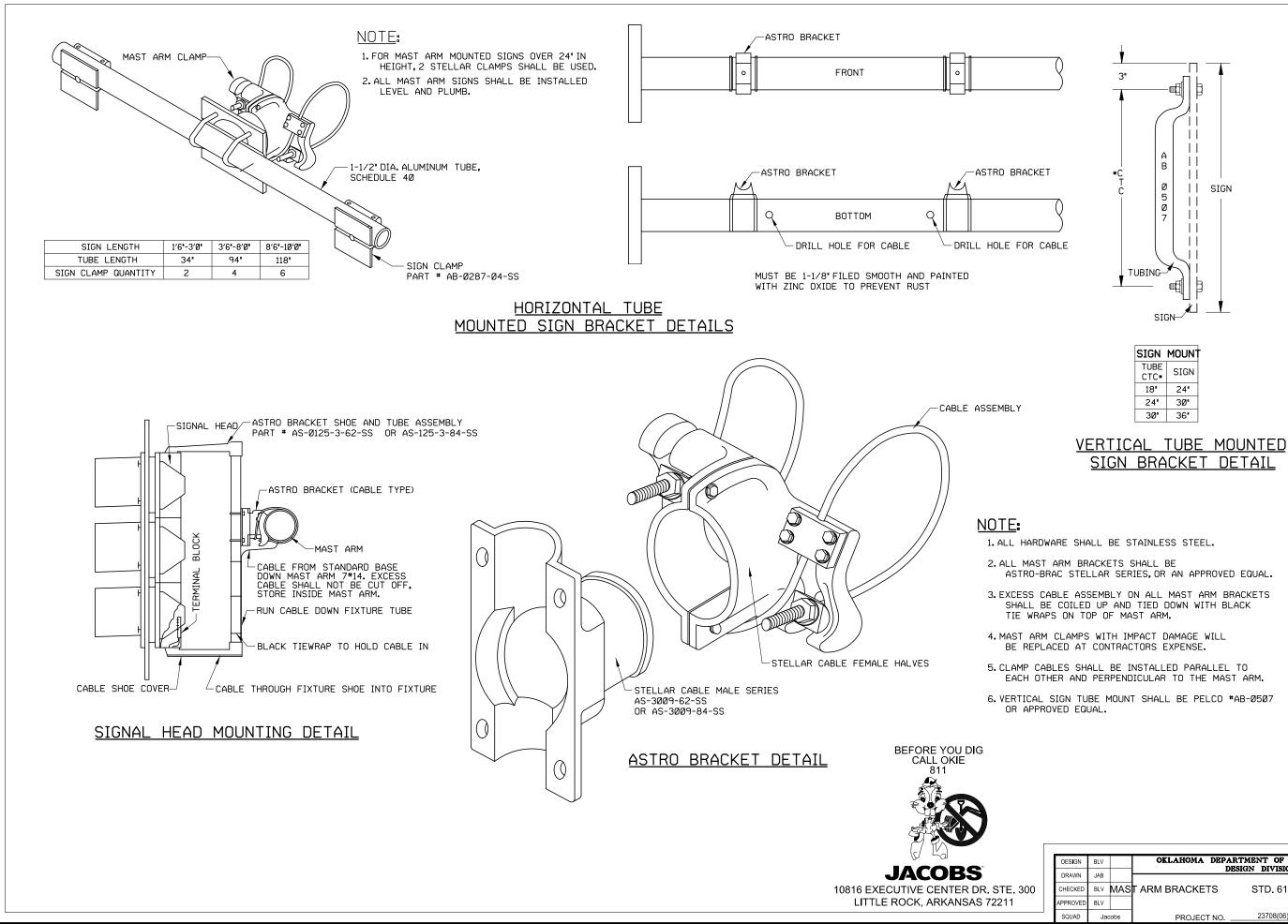






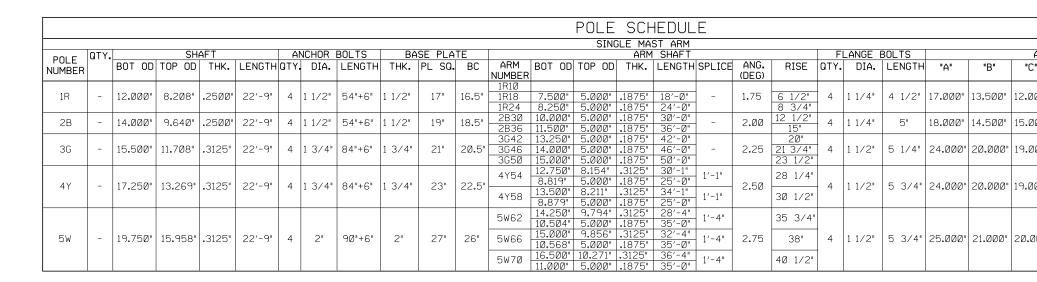
	DESIGN	BLV		OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION				
	DRAWN	JAB						
	CHECKED	BLV		TRAFFIC SIGNALS AND ACCESSORIES				
APPROVED BLV STD. 614.			STD. 614A					
	SQUAD	Jaco	bs	PROJECT NO23708(06) SHEET NO				

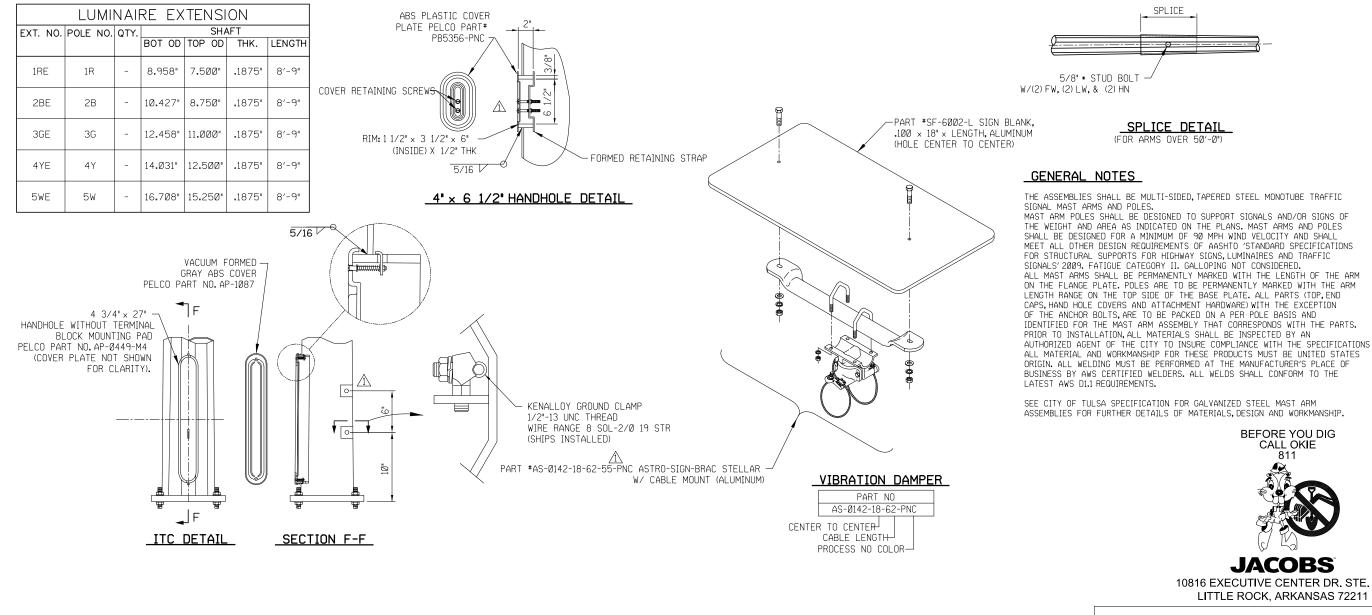




SIGN	MOUN
TUBE CTC*	SIGN
18"	24"
24"	30"
30"	36"

	1	DESIGN	BLV		OKLAHOMA DEPAI	RTMENT OF TRAN	SPORTATION
		DRAWN	JAB				
00		CHECKED	BLV	MAS	T ARM BRACKETS	STD. 616	
		APPROVED	BLV				
		SQUAD	Jac	cobs	PROJECT NO	23708(06)	SHEET NO, <u>55</u>

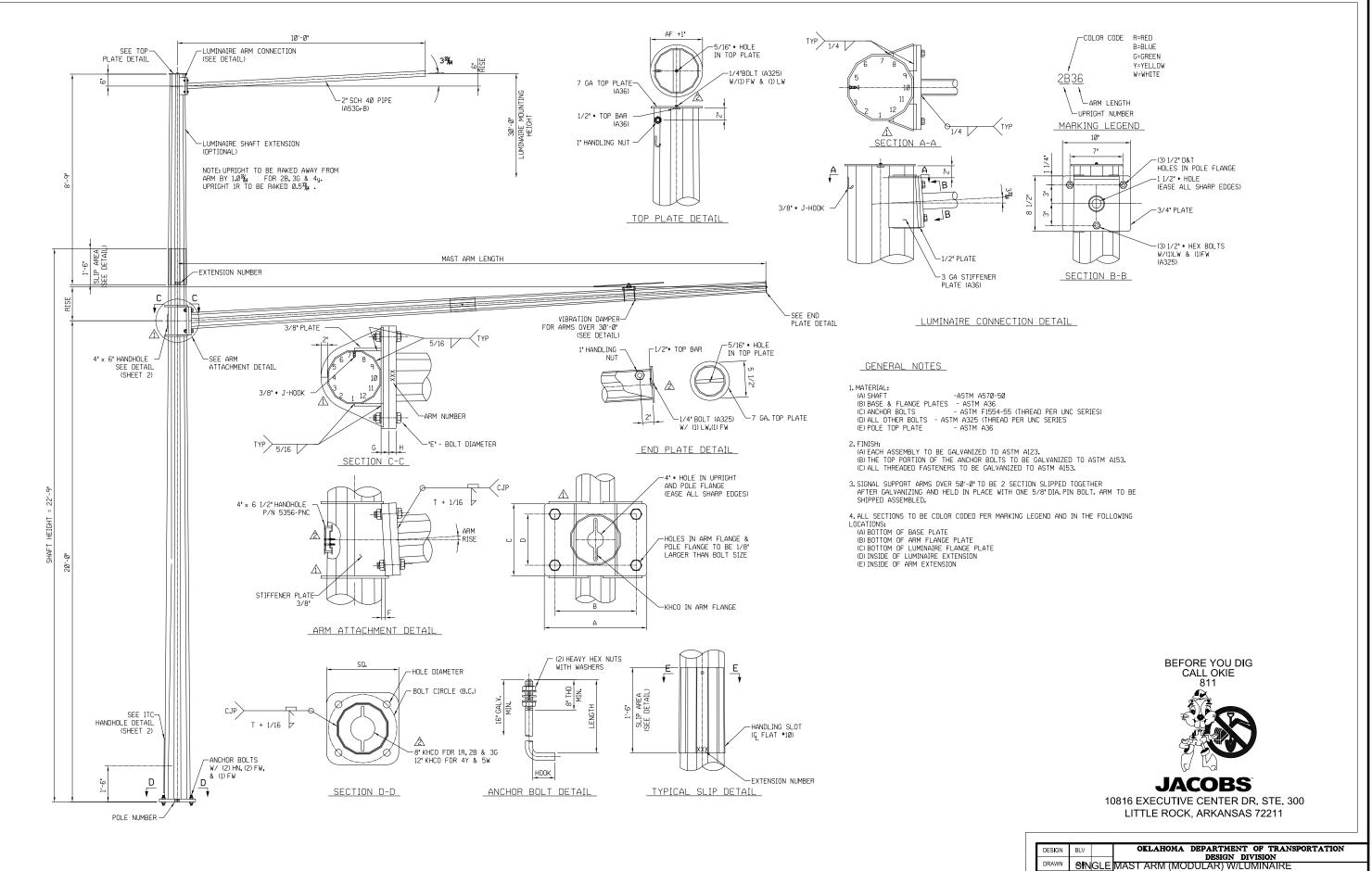




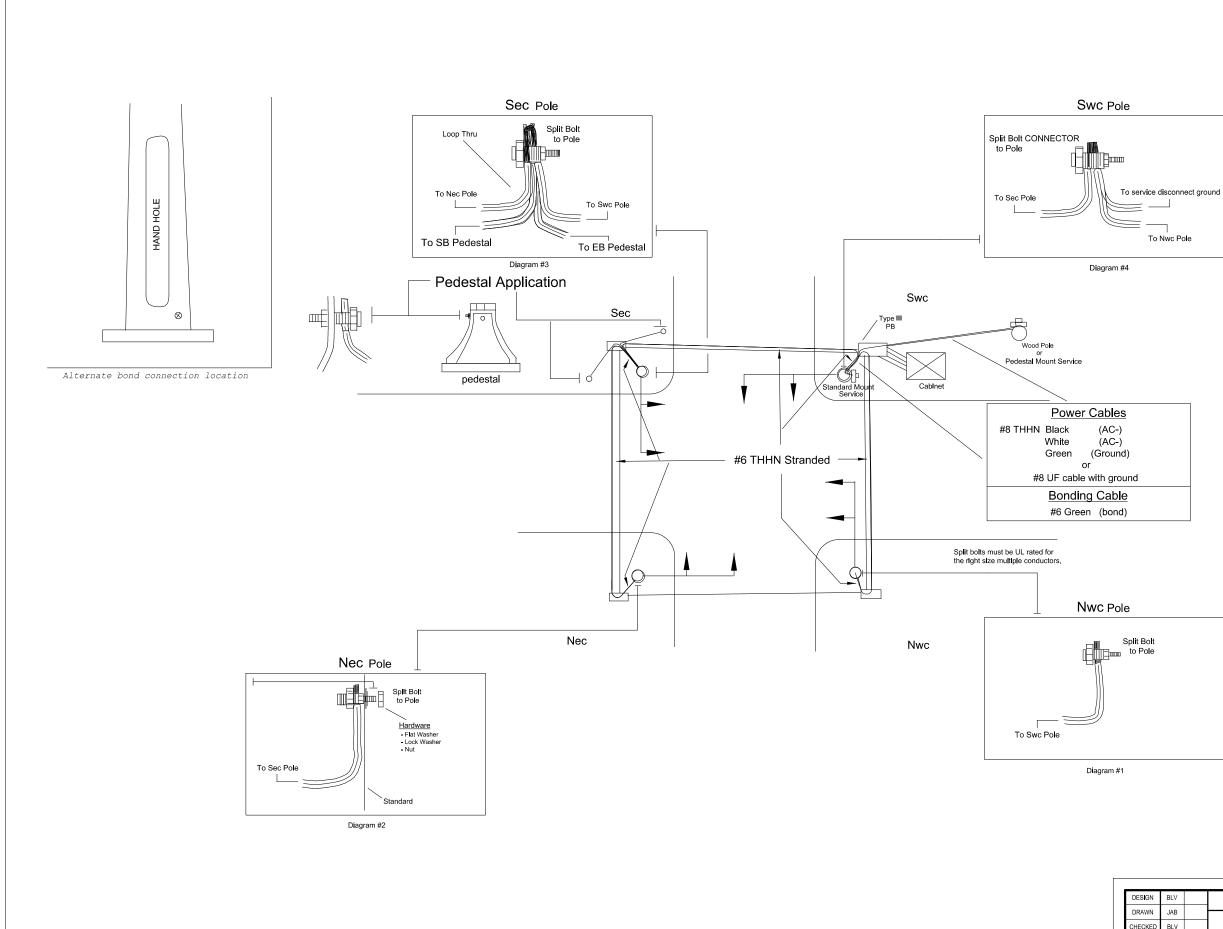
ARM ATTACHMENT									
<u>,</u>	"D"	'E'	"F"	"G"	"H"				
100"	8.500"	1 1/4"	3/8"	1 1/4"	1 1/4"				
100"	11.500"	1 1/4"	1/2"	1 1/2"	1 1/2"				
100"	15.000"	1 1/2"	3/4"	1 1/2"	1 1/2"				
100"	15.000"	1 1/2"	7/8"	1 3/4"	1 3/4"				
300"	16.000"	1 1/2"	1"	1 3/4"	1 3/4"				

10816 EXECUTIVE CENTER DR. STE, 300

DESIGN	BLV		OKLAHOMA DEPAR	TMENT OF TRA	NSPORTATION		
DRAWN	JAB						
CHECKED	BLV		SINGLE MAST ARM (MODULAR) W/LUMINAIRE				
APPROVED	BLV		STD. 617A				
SQUAD	Jac	obs	PROJECT NO.	23708(06)	SHEET NO,		



	DEGIGIN	DLV		DESIGN DIVISION	
	DRAWN	SIN	GLE	MAST ARM (MODULAR) W/LUMINAIRE	
	CHECKED	BLV		STD 617B	
	APPROVED	BLV			
J	SQUAD	Jac	cobs	PROJECT NO23708(06)	_ SHEET NO, <u>57</u>



ables
(AC-) (AC-) Ground)
h ground
Cable



**JACOBS** 10816 EXECUTIVE CENTER DR. STE. 300 LITTLE ROCK, ARKANSAS 72211

DESIGN	BLV	OKLAHOMA DEPARTMENT OF TRANSPORTATION DESIGN DIVISION				
DRAWN	JAB	TRAFFIC SIGNAL SERVICE POLE AND				
CHECKED	BLV	SERVICE TO SIGNAL STANDARD				
APPROVED	BLV	STD. 618				
SQUAD	Jacobs	PROJECT NO				