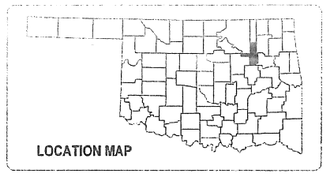
CITY OF TULSA, OKLAHOMA

PLAN OF PROPOSED TRAFFIC SIGNAL N. PEORIA AVE. & MOHAWK BLVD.

TULSA COUNTY

PROJECT NO. TD-23-0003

REVISIONS		
NO.	DESCRIPTION	DATE



TULSA COUNTY

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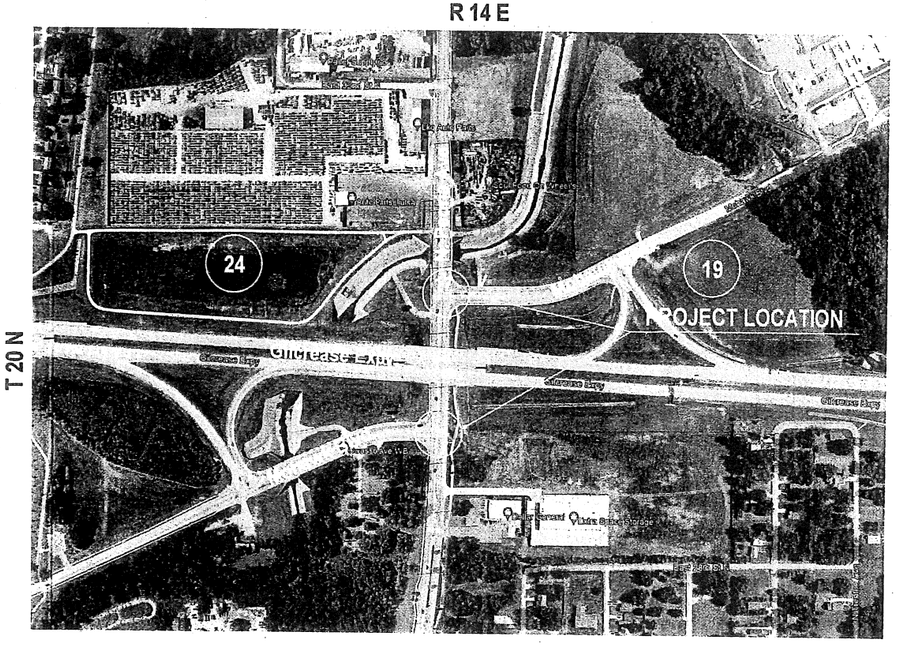


SCALE	
SIGNAL PLAN	1" = 40'
STRIPING PLAN	1" = 40'

THE FOLLOWING STANDARDS WILL BE REQUIRED ON THIS PROJECT:

CITY OF TULSA TRAFFIC

601	PULL BOX INSTALLATION
602	CONDUIT INSTALLATION
603	SIGNAL POLE FOOTING DETAILS
607A	TRAFFIC SIGNAL SERVICE POLE AND SERVICE TO SIGNAL STANDARD
608A	STREET NAME SIGNS
608B	TRAFFIC SIGNS
610A	332 CONTROLLER CABINET DETAIL
610C	332 CABINET WIRING
611C	POLE WIRING DETAIL
612	CABINET GUARD DETAIL
613	PEDESTAL AND MAST ARM POLE DETAILS
614A	TRAFFIC SIGNALS AND ACCESSORIES
614B	SIGNAL HEAD WIRING
616	MAST ARM BRACKETS
617A	SIGNAL POLES AND MAST ARMS
617B	SINGLE MAST ARM DETAILS
618	BONDING DIAGRAM

CONVENTIONAL SYMBOLS

- PROPOSED ROADS
- RAILROADS
- RANGE & TOWNSHIP
- SECTION LINES
- QUARTER SECTION LINES
- FENCE
- GROUND LINE
- EXISTING ROADS
- BASE LINE
- GRADE LINES
- TELEPHONE & TELEGRAPH
- POWER LINES
- OIL WELLS
- BUILDINGS
- DRAINAGE STRUCTURES -IN PLACE
- DRAINAGE STRUCTURES-NEW
- RIGHT-OF-WAY LINES-EXISTING (PRES. R/W)
- RIGHT-OF-WAY LINES-NEW (R/W)
- RIGHT-OF-WAY MARKERS-IN PLACE
- RIGHT-OF-WAY MARKERS-REMOVE & RESET
- RIGHT-OF-WAY MARKERS-NEW
- CONTROLLED ACCESS
- RIGHT -OF-WAY FENCE

CONVENTIONAL SIGNS

- INTERSTATE HIGHWAY
- U.S. HIGHWAY
- STATE HIGHWAY

LEGEND

- 1½" ELECT. CONDUIT
- 2" ELECT. CONDUIT
- 3" ELECT. CONDUIT
- EXISTING CONDUIT
- SIZE 11 PULL BOX
- EXISTING PULL BOX
- CONTROLLER
- PEDESTRIAN PUSH BUTTON
- WALK AND DON'T WALK
- SIGNAL HEAD WITH BACKPLATE
- LUMINAIRE WITH MAST ARM
- VIDEO DETECTION
- OPTICAL DETECTOR
- MAST ARM SIGN
- MAST ARM WITH POLE
- SIGNAL HEAD NO.
- MAST ARM & POLE WITH ABOVE SYMBOLS
- DETECTION AREA

TULSA OKLAHOMA

POPULATION 391,906

THE PROJECT IS ENTIRELY WITHIN THE CORPORATION LIMITS OF THE CITY OF TULSA OK.

PROJECT LENGTH.....INTERSECTION
EQUATIONS.....NONE
EXCEPTIONS.....NONE

TEC A CLEAR DIRECTION
Traffic Engineering Consultants, Inc.
2770 Washington Dr., Suite 100 - Norman OK 73069,
Ph: 405-720-7721, CA# 1160 Exp. 6-30-25

2-25-25
ESTHER M. SHAW-SMITH, P.E. DATE

3/25/2025
CITY ENGINEER DATE

ADVERTISMENT DATE: _____

CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. AS ADOPTED BY CITY OF TULSA.

02/25/25 G:\WP-Projects\02 Tulsa Office Projects\10-933 - 50.Peoria and Mohawk at Glenpool Expressway - Tulsa, OK\L40\01-TITLE.dgn

BASE BID - ROADWAY					
ITEM NO.	SPEC. NO.	DESCRIPTION	PAY ITEM NOTES	UNIT	QUANTITY
1	202(A)	UNCLASSIFIED EXCAVATION	E-3, 4, R-1	CY	2
2	221	TEMPORARY EROSION CONTROL	E-7, 8, 9	LS	1
3	230(A)	SOLID SLAB SODDING	E-10, 11	SY	10
4	610(A)	4" CONCRETE SIDEWALK	S-12, 13	SY	14
5	610(A)	4" STAMPED CONCRETE SIDEWALK	S-12, 13, 18	SY	7
6	619(B)	REMOVAL OF SIDEWALK	R-1, 2, 5	SY	16
7	COT 354	Construction As-Built		LSUM	1
8	COT 355	Contractor Quality Control		LSUM	1

PAY ITEM NOTES (ROADWAY) (VERSION 1-30-19)

EARTHWORK/EROSION CONTROL/SITE PREPARATION

E-1 NOT USED.

E-2 NOT USED.

E-3 THE CONTRACTOR SHALL BE PAID FOR UNCLASSIFIED EXCAVATION ON THE BASIS OF PLAN QUANTITY. ANY ADDITIONAL EXCAVATION REQUIRED OR OVERRUN OF PLAN QUANTITY WILL BE PAID FOR ON THE BASIS OF UNIT PRICE BID FOR THE ITEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SURVEY TO VERIFY ANY ADDITIONAL QUANTITIES.

E-4 UNCLASSIFIED EXCAVATION INCLUDES REMOVAL OF AGGREGATE BASE AND MODIFIED SUBGRADE UNDER EXISTING PAVEMENT TO BE REPAIRED.

E-5 NOT USED.

E-6 NOT USED.

E-7 EROSION PROTECTION SHALL BE PLACED AS FOLLOWS:
A) AROUND INLETS TO PREVENT INFLOW OF ERODED MATERIAL INTO STORM SEWER SYSTEM;
B) IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH OF ERODED MATERIAL ONTO ADJACENT PROPERTY;
C) FOR ENTIRE DURATION OF PROJECT, WITH MAINTENANCE AND REPLACEMENTS, AS DIRECTED BY THE ENGINEER;
D) WITH PERIODIC REMOVAL OF SEDIMENT IN ACCORDANCE WITH STORMWATER MANAGEMENT PLAN.
ALL COST FOR ITEMS A-D ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR THIS ITEM.

E-8 PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION.

E-9 INCLUDES 2 TYPE [B] FILTERS.

E-10 ESTIMATED QUANTITY IS BASED ON SODDING OF ALL DISTURBED AREAS OUTSIDE THE FINAL PAVING LIMITS AND WITHIN THE FINAL GRADING LIMITS AS INDICATED BY THE TOP-OF-CUT/TOE-OF-SLOPE LINE ON THE PLANS (EXCLUDING SURFACES OF STRUCTURES, FIXTURES AND APPURTENANCES). SOD SHALL BE OF LIKE-KIND TO EXISTING SOD. PRICE BID INCLUDES PLACEMENT AND COMPACTION OF SUITABLE BACKFILL. ANY EXISTING GRASSED AREAS BEYOND THE ABOVE STATED LIMITS THAT ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESODDED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S SOLE EXPENSE.

E-11 COST OF WATERING AND FERTILIZING SHALL BE INCLUDED. FERTILIZERS SHALL BE 10-20-10 AND SHALL BE APPLIED AT THE RATE OF 1.5 LBS PER 10 SQ YDS. FERTILIZER SHALL BE APPLIED PER SECTION 230.04H OF ODOT STANDARD SPECIFICATIONS. WATERING SHALL BE APPLIED AS NECESSARY UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE WORK IS ACCEPTED AS COMPLETE.

SURFACING / STRUCTURES

S-1 NOT USED.

S-2 NOT USED.

S-3 NOT USED.

S-4 NOT USED.

S-5 NOT USED.

S-6 NOT USED.

S-7 NOT USED.

S-8 NOT USED.

S-9 NOT USED.

S-10 NOT USED.

S-11 NOT USED.

S-12 THE USE OF FLY-ASH IN CONCRETE IS PROHIBITED.

S-13 INCLUDES ALL COST OF SAWED JOINTS AND SEALING OF ALL JOINTS INCLUDING LONGITUDINAL JOINTS.

S-14 NOT USED.

S-15 NOT USED.

S-16 NOT USED.

S-17 NOT USED.

PAY ITEM NOTES (ROADWAY) (CONT'D.) (VERSION 1-30-19)

S-18 STAMPED CONCRETE SIDEWALK SHALL BE INSTALLED WITH RUNNING BOND BRICK PATTERN. COLOR SHALL BE INTEGRAL AND MATCH HUE WITH FEDERAL STANDARD AMS-595 # 21105 (RED), OR APPROVED EQUAL. PAINTING OF STAMPED CONCRETE IS PROHIBITED AND WILL RESULT IN REJECTION OF WORK PRODUCT.

S-19 NOT USED.

S-20 NOT USED.

S-21 NOT USED.

REMOVAL/ADJUSTMENT

R-1 WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.

R-2 ALL SAW CUTTING AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE ADJUSTED, REMOVED, REPAIRED, OR REPLACED.

R-3 NOT USED.

R-4 NOT USED.

R-5 ITEMS TO BE REMOVED MAY OR MAY NOT BE PRESENT IN ANY SPECIFIED CONDITION.

R-6 NOT USED.

GENERAL

G-1 NOT USED.

G-2 NOT USED.

G-3 NOT USED.

G-4 NOT USED.

G-5 NOT USED.

G-6 NOT USED.

G-7 NOT USED.

G-8 NOT USED.

G-9 NOT USED.

G-10 NOT USED.

DRAINAGE

D-1 NOT USED.

D-2 NOT USED.

D-3 NOT USED.

D-4 NOT USED.

D-5 NOT USED.

D-6 NOT USED.

D-7 NOT USED.

D-8 NOT USED.

D-9 NOT USED.

D-10 NOT USED.

D-11 NOT USED.

D-12 NOT USED.

D-13 NOT USED.

D-14 NOT USED.

D-15 NOT USED.

LICENSED PROFESSIONAL ENGINEER JACOB CAMPBELL 34190 OKLAHOMA

BEFORE YOU DIG CALL OKIE 811

PAY ITEMS & NOTES (ROADWAY)

PROJECT NO. TD-23-0003

PEORIA AND MOHAWK INTERSECTION SIDEWALK

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

CEC Corporation
1300 S Main St, Tulsa, OK 74119
(918) 663-9401

REVISION	BY	DATE

PLAN SCALE			
	DRAWN	CRS	
	DESIGNED	JLC	
	SURVEY		
	PROJECT MGR.		3/25
	LEAD ENGR.		3/25
	FIELD MGR.		3/25
	RECOMMENDED: HAS 3-25 DESIGN MANAGER		
			CITY ENGINEER
FILE PAY ITEMS & NOTES (ROADWAY)			DATE: 3/25/2025
ATLAS PAGE NO: 163, 164			SHEET 2 OF 16

PLOT DATE: February 21, 2025, DRAWING FILE: N:\MUNICIPAL\PROJECTS\TEC - PEORIA AND MOHAWK BLVD\PRODUCTION DRAWINGS\PAY ITEMS & NOTES (ROADWAY).DWG

TRAFFIC PAY QUANTITIES
Peoria Avenue & Mohawk Blvd.

ITEM	SPEC	DESCRIPTION		UNIT	TOTAL
1	COT 601	PULL BOX SIZE II		EA	6
2	COT 601	PULL BOX SIZE III		EA	2
3	COT 602	2" PVC SCH. 40 PLASTIC CONDUIT (TRENCHED)	(COT 602)	LF	95
4	COT 602	3" PVC SCH. 40 PLASTIC CONDUIT (TRENCHED)	(COT 602)	LF	330
5	COT 602	2-3" HDPE SCH. 40 CONTINUOUS CONDUIT (DIRECTIONAL BORE) (OUTSIDE IDL)	(COT 602)	LF	630
6	COT 603	24" SIGNAL FOOTING S-18/24	(COT 603)	EA	1
6	COT 603	30" SIGNAL FOOTING S-30/36	(COT 603)	EA	1
7	COT 603	36" SIGNAL FOOTING S-42/50	(COT 603)	EA	4
8	COT 603	24" PEDESTAL FOOTING F-1	(COT 603)	EA	6
9	COT 607	SERVICE TO SIGNAL STANDARD	(COT 607)	EA	2
10	COT 607	OVERHEAD SERVICE TO SERVICE POLE	(COT 607)	EA	2
11	COT 608	OVERHEAD SIGN		SF	101
12	COT 610	TRAFFIC SIGNAL CONTROLLER CABINET ASSEMBLY	(COT 610)	EA	2
13	COT 611	2#12 UF ELECTRICAL CONDUCTOR WITH GROUND	(TP-1)	LF	1650
14	COT 611	2#14 SHIELDED ELECTRICAL CONDUCTOR	(TP-1)	LF	90
15	COT 611	4#14 TRAFFIC SIGNAL ELECTRICAL CABLE	(TP-1)	LF	140
16	COT 611	7#14 TRAFFIC SIGNAL ELECTRICAL CABLE	(TP-1)	LF	1350
17	COT 611	20#14 TRAFFIC SIGNAL ELECTRICAL CABLE	(TP-1)	LF	860
18	COT 611	GREEN #12 THHN ELECTRICAL CONDUCTOR	(TP-1)	LF	1275
19	COT 611	GREEN #6 THHN ELECTRICAL CONDUCTOR	(TP-1)	LF	900
20	COT 611	CAT 6 ETHERNET CABLE	(TP-1)	LF	510
21	COT 612	CABINET BASE, APRON AND GUARD		EA	2
22	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON STATION AND SIGN	(COT 613)	EA	8
23	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON CONTROL CARD/UNIT	(COT 613)	EA	2
24	COT 613	AUDIBLE PEDESTRIAN PUSH BUTTON CONFIG/PROGRAMMING DEVICE	(COT 613)	EA	2
25	COT 614	LED 3 SECTION TRAFFIC SIGNAL HEAD (#36)	(COT 614)	EA	12
26	COT 614	LED 4 SECTION TRAFFIC SIGNAL HEAD (#S-13L)(FLTYA)	(COT 614)	EA	2
27	COT 614	LED ICC PEDESTRIAN HEAD (#33)	(COT 614)	EA	8
28	COT 614	BACKPLATES	(COT 614)	EA	14
29	COT 615	BASE COVERS		EA	12
30	COT 617	36' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM EXT	(COT 617)	EA	1
31	COT 617	42' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM EXT	(COT 617)	EA	1
32	COT 617	46' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/LUM EXT	(COT 617)	EA	1
32	COT 617	24' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/O LUM EXT		EA	1
33	COT 617	46' MODULAR TRAF. SIGNAL MAST ARM AND POLE W/O LUM EXT		EA	2
34	COT 617	10' PEDESTAL POLE		EA	6
35	COT 620	VIDEO DETECTION SYSTEM	(COT 620)	EA	2
36	COT 622	WIRELESS TRAFFIC SIGNAL COMMUNICATIONS SYSTEM	(COT 622)	EA	2
37	COT 623	BATTERY BACKUP SYSTEM		EA	2
38	COT 625	REMOVAL OF TRAFFIC ITEMS	(COT 625)	EA	2
39	COT 626	TRAFFIC SIGNAL MAINTENANCE	(2)	HR	2
40	COT 626	SIGNAL MODIFICATIONS FOR LANE CLOSURES (PER SIGNALIZED INTERSECTION)		EA	2
41	COT 641	MOBILIZATION	(G-2)	EA	1
42	COT 642	CONSTRUCTION STAKING - LEVEL II	(G-3,4)	EA	1
43	855 (A)	TRAFFIC STRIPE (THERMOPLASTIC) (4" WIDE)	(TS-19)	LF	2470
44	855 (A)	TRAFFIC STRIPE (THERMOPLASTIC) (24" WIDE)	(TS-23)	LF	715
45	855 (B)	TRAFFIC STRIPE (THERMOPLASTIC) (ARROWS)		EA	17
46	880	ARROW DISPLAY	(TC-25)	SD	360
47	880	SIGNS TO 6.25 SF	(TC-25)	SD	720
48	880	SIGNS 6.25 TO 15.99SF	(TC-25)	SD	540
49	880	SIGNS16.0 SF & OVER	(TC-25)	SD	720
50	880	BARRICADES (TYPE III)	(TC-25)	SD	540
51	880	TYPE A LIGHT	(TC-25)	SD	2700
52	880	DRUMS	(TC-25)	SD	900
53	880	TRAFFIC CONTROL EQUIPMENT REMOVAL		L SUM	1
54	SPECIAL	GRABBER TUBES	(TC-25)	SD	1800
55	SPECIAL	CCTV CAMERA, PAN/TILT/ZOOM	(1)	EA	2
56	857(F)	Pavement Marking Removal (Traffic Stripe)		LF	700

TRAFFIC SIGNAL GENERAL CONSTRUCTION NOTES

(A) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRAFFIC SIGNAL IN A PROPER WORKING CONDITION DURING CONSTRUCTION AS DIRECTED BY THE TRAFFIC ENGINEER AND FOR FOLLOWING THE REQUIREMENTS OF COT 626 TRAFFIC SIGNAL CONSTRUCTION AND OPERATION. THE CONTRACTOR SHALL NOT PLACE NEW TRAFFIC SIGNALS INTO OPERATION UNTIL THEY HAVE BEEN PERMITTED, INSPECTED AND APPROVED BY CITY OF TULSA TRAFFIC SIGNAL INSPECTORS, AND THE CITY OF TULSA TRAFFIC OPERATIONS HAS CONTACTED THE UTILITY COMPANY TO SET UP BILLING. TRAFFIC SIGNALS SHALL ONLY BE PUT INTO OPERATION ON TUESDAYS, WEDNESDAYS, AND THURSDAYS. ALL TRAFFIC MATERIALS SHALL MEET THE REQUIREMENTS OF COT 627 PRE-QUALIFICATION FOR TRAFFIC OPERATIONS MATERIALS OR AS DIRECTED BY THE TRAFFIC ENGINEER. CONTRACTORS SHALL MEET THE REQUIREMENTS OF COT 628 SIGNAL AND LIGHTING PROJECT CONTRACTOR EXPERIENCE REQUIREMENTS.

(B) THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FOR ELECTRICAL INSPECTION ON ALL SIGNAL AND LIGHTING WORK PER COT SPECIFICATION 626 TRAFFIC SIGNAL CONSTRUCTION AND OPERATION. USE THE FOLLOWING ADDRESSES FOR THE ELECTRICAL PERMIT:

FOR THE NORTHERN INTERSECTION " 3001 N PEORIA AVE E TRF LIGHT"
FOR THE SOUTHERN INTERSECTION " 2900 N PEORIA AVE E TRF LIGHT"

(C) 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 POSTS PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS.

(D) ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDELED PER COT SPEC 625 - REMOVAL OF TRAFFIC ITEMS.

(E) PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF ODOT STANDARDS AND SPECIFICATIONS FOR PAVEMENT MARKINGS, BUT SHALL BE PROVIDED USING TULSA STANDARD PAVEMENT MARKING LAYOUTS WHEN APPLICABLE. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

TRAFFIC SIGNAL PAY QUANTITY NOTES

(COT 602) ALL CONDUIT ENDS SHALL BE REAMED AND BUSHINGS SHALL BE INSTALLED PRIOR TO PULLING ANY WIRES.

(COT 603) POLE FOUNDATIONS SHALL BE CONSTRUCTED ACCORDING TO THE APPLICABLE REQUIREMENTS OF ODOT STANDARD SPECIFICATIONS FOR DRILLED SHAFT FOUNDATIONS AS DIRECTED BY THE TRAFFIC ENGINEER.

(COT 607) THE INSTALLED SERVICE SHALL BE FULLY OPERATIONAL, AND ANY COSTS CHARGED BY THE UTILITY COMPANY FOR THE SERVICE INSTALLATION SHALL BE PAID BY THE CONTRACTOR AND IS INCLUDED IN THIS PAY ITEM.

(COT 610) THE TRAFFIC SIGNAL CONTROLLER PROVIDED SHALL BE AN ECONOLITE ATC COBALT CONTROLLER IN A 332 SIGNAL CABINET OR 332S WHERE A BATTER BACKUP IS INCLUDED. THE CONTROLLER SHALL USE THE EOS VERSION OF SOFTWARE

CONFLICT MONITOR SHALL BE AN EDI 2018ECUP OR APPROVED EQUAL. AN ETHERNET PORT SHALL BE PROVIDED ON THE FRONT PANEL. THE ETHERNET PORT SHALL BE ELECTRICALLY ISOLATED FROM THE MMU ELECTRONICS AND SHALL PROVIDE MINIMUM OF 1500 VRMS ISOLATION. THE CONNECTER SHALL BE AN RJ-45 EIGHT PIN CONNECTOR. AN HTML BASED CAPABILITY SHALL BE PROVIDED IN THE MONITOR TO CONFIGURE THE NETWORK PARAMETERS OF THE MMU ETHERNET PORT USING A STANDARD HTML BROWSER. ALL DISPLAY INDICATORS SHALL BE MOUNTED ON THE FRONT PANEL OF THE SIGNAL MONITOR AND SHALL BE WATER CLEAR, T-1 PACKAGE, SUPER BRIGHT TYPE LEDS. ALL FAULT LEDS SHALL BE RED EXCEPT THE PWR INDICATOR WHICH SHALL BE GREEN. A SEPARATE RED, YELLOW, AND GREEN INDICATOR SHALL BE PROVIDED FOR EACH CHANNEL.

INCLUDE 2-19" RACK SHELVES, THAT ARE CHATSWORTH PRODUCTS PART NUMBER 10758-701 OR APPROVED EQUAL, IN ADDITION TO WHAT IS OUTLINED IN COT 610 SPECIFICATION. RACKS SHALL BE DESIGNED TO HOLD SMALL PERIPHERAL EQUIPMENT IN A CENTRAL LOCATION. EACH SHELF TYPICALLY HOLDS TWO UNITS AND ALLOWS A CONVENIENT CABLE RUN DOWN THE INSIDE OF THE RACK CHANNEL. RACK SHALL HOLD EQUIPMENT UP TO 17.35"W X 9.82"D AND MADE OF STRONG, LIGHT WEIGHT ALUMINUM THAT CAN SUPPORT UP TO 50 LB.

THE CONTROLLER CABINET DOORS SHALL BE EQUIPPED WITH A CL-TC1 GEN 2 CYBERLOCK CYLINDER AND EITHER A15481RS CCL TRAFFIC CABINET LOCK RH, OR A15481LS CCL TRAFFIC CABINET LOCK LH. THE CONTRACTOR WILL BE REQUIRED TO PURCHASE A CYBERKEY BLUE 3 THAT SHALL BE PROGRAMMED BY TRAFFIC OPERATIONS AT 4015 N HARVARD AVE, TULSA OK 74115.

THE BATTERY BACKUP SYSTEM SHALL BE ECONOLITE ZX2000-48 SUPER CAPACITOR BATTERY MODULES AND DBLMXU-48 SERIES DOUBLE CONVERSION UPS.

(COT 610) THE CONTRACTOR SHALL DELIVER THE SIGNAL CABINET FULLY WIRED AND READY FOR INSTALLATION TO THE COT TRAFFIC OPERATIONS DIVISION FOR INSPECTION AND APPROVAL PRIOR TO INSTALLATION. COT WILL NOTIFY THE CONTRACTOR OF ANY DEFICIENCIES OR APPROVE THE CABINET WITHIN TWO WEEKS PER COT SPECIFICATION 610 FOR TRAFFIC SIGNAL CONTROLLER CABINET ASSEMBLIES.

(COT 610) THE CABINET PROVIDED SHALL BE A STRETCH CABINET MEETING THE CABINET AND DOOR HEIGHT SPECIFICATIONS OF A MCCAIN 332S CABINET. ALL OTHER DIMENSIONS SHALL MEET CURRENT COT STANDARDS AND SPECIFICATIONS.

(COT 613) THE AUDIBLE PUSH BUTTONS PROVIDED SHALL BE POLARA IN2 WITH EITHER A SHELF MOUNT CONTROL UNIT OR A CARD RACK/300 SERIES CONTROL UNIT. PUSH BUTTONS SHALL BE INSTALLED ON POLES SUCH THAT THE PUSH BUTTONS ARE INSTALLED IN ACCORDANCE WITH ADA, PROWAG, AND MUTCD REQUIREMENTS, AND WITHIN 10 INCHES MAXIMUM FROM THE EDGE OF THE LEVEL, ALL-WEATHER SURFACE (SIDEWALK LANDING) AND WITHIN 10 FEET MAXIMUM FROM THE FACE OF THE CURB AT RAMPS. PUSH BUTTONS SHALL BE MOUNTED 42 INCHES ABOVE THE LANDING, ON THE SIDE OF THE POLE CLOSEST TO THE CORRESPONDING CROSSWALK. IF A PUSH BUTTON EXTENDER ARM IS NEEDED, THE EXTENDER ARM SHALL NOT EXCEED 12 INCHES IN LENGTH. WHEN PUSH BUTTONS ARE LOCATED WITHIN 10 FEET OF EACH OTHER, AUDIBLE VOICE MESSAGES SHALL BE USED. THE PUSH BUTTONS SHALL BE FACTORY PROGRAMMED WITH THE FOLLOWING VERBAL MESSAGES:

THE NORTH/SOUTH PUSH BUTTONS (4) SHALL BE FACTORY PROGRAMMED WITH THE FOLLOWING VERBAL MESSAGES:
DURING FLASHING DON'T WALK AND STEADY DON'T WALK- "WAIT"
DURING WALK- "MOHAWK BOULEVARD - WALK SIGN IS ON TO CROSS MOHAWK BOULEVARD"

THE EAST/WEST PUSH BUTTONS (4) SHALL BE FACTORY PROGRAMMED WITH THE FOLLOWING VERBAL MESSAGES:
DURING FLASHING DON'T WALK AND STEADY DON'T WALK- "WAIT"
DURING WALK- " PEORIA AVENUE- WALK SIGN IS ON TO CROSS PEORIA AVENUE"

(COT 614) HINGES SHALL BE LOCATED TO THE LEFT SIDE FOR 3-SECTION SIGNAL HEADS AND 4-SECTION SIGNAL HEADS, AND TOWARD THE OUTSIDE EDGES FOR A 5-SECTION SIGNAL HEAD.

"THIS PAY ITEM SHALL INCLUDE 12 OF THE 3-SECTION BACKPLATES AND 2 OF THE 4-SECTION BACKPLATES. ALL BACKPLATES PROVIDED ON THIS PROJECT SHALL BE ALUMINUM, WITH A DURABLE, FACTORY-APPLIED, NON-REFLECTIVE BLACK FINISH (POWDER COATED, BAKED ENAMEL, OR OTHER STYLE AS APPROVED BY THE TRAFFIC ENGINEER) WITH LOUVERS IN THE BACKPLATE." A 2 INCH WIDE STRIP OF FLUORESCENT YELLOW RETRO-REFLECTIVE TAPE, TYPE IX, SHALL BE USED AT THE FRONT PERIMETER OF THE BACKPLATES.

THE PEDESTRIAN SIGNAL HEADS PROVIDED SHALL BE EAGLE 16" PEDESTRIAN SIGNAL HEAD OR APPROVED EQUAL. ALL PEDESTRIAN SIGNAL HEADS SHALL BE INSTALLED ON THE POLES SUCH THAT THE SIGNAL HEADS ARE VISIBLE FROM THE CROSSWALK.

(COT 617) THE CONTRACTOR SHALL SUPPLY LED LUMINAIRES WITH THE FOLLOWING ATTRIBUTES: 15,700 LUMENS, 120 VOLT, MINIMUM 118 LUMENS PER WATT, GRAY (UNLESS BLACK POLES ARE SPECIFIED), TYPE 3 DISTRIBUTION, 4000 KELVIN, WITH SURGE PROTECTION, 7 PIN RECEPTACLE AND LONG LIFE PHOTOCELL. AMERICAN ELECTRIC LIGHTING # ATBM F MVOLT R3 P7 PCLL OR APPROVED EQUAL.

(COT 620) THE DETECTION SYSTEM SHALL BE ON THE TRAFFIC OPERATIONS APPROVED PRODUCTS LIST (APL). THE DETECTION SYSTEM SHALL BE VIDEO DETECTION, AND SHALL DETECT VEHICLES, BICYCLES, AND MOTORCYCLES ON A ROADWAY BY PROCESSING VIDEO DATA THAT PROVIDES VEHICLE PRESENCE, TRAFFIC FLOW DATA, AND EVENT ALARMS, FOR REAL-TIME TRAFFIC CONTROL AND MANAGEMENT SYSTEMS.

- DETECTION SYSTEMS SHALL INCLUDE ALL MATERIALS INCLUDING VIDEO DETECTOR CAMERAS, VIDEO CARDS, COMMUNICATIONS CARDS, CABLING, AND OTHER MATERIALS AS NECESSARY TO MAKE DETECTION SYSTEM FULLY OPERATIONAL AT AN INTERSECTION.
- DETECTION SYSTEM CAMERAS SHALL BE IP-ADDRESSABLE.
- DETECTION SYSTEMS SHALL NOT USE COAXIAL. DETECTION SYSTEMS SHALL USE EITHER A 3-WIRE SYSTEM UTILIZING BROADBAND OVER POWER LINES (BPL), OR CAT 6 ETHERNET CABLE. THE 3-WIRE SYSTEM IS INTENDED TO BE USED TO REDUCE INTERFERENCE IN THE SYSTEM.

(COT 622) ETHERNET CABLE USED FOR WIRELESS SIGNAL COMMUNICATIONS SHALL BE INDUSTRIAL GRADE SHIELDED CAT 6, RATED FOR OUTDOOR USE, UNLESS OTHERWISE SPECIFIED IN THE PROJECT PLANS. SHIELDING SHALL BE RISER RATED. POLYOLEFIN INSULATION SHIELD BONDED TO AN OIL RESISTANT AND SUN RESISTANT PVC JACKET. THIS PAY ITEM SHALL INCLUDE APPROXIMATELY 500 LINEAR FEET OF CAT 6 CABLE INSTALLED FROM THE CONTROLLER TO THE SIGNAL POLE. EXCESS CABLE SHOULD BE STORED IN THE HAND HOLE OF THE SIGNAL POLE AND IN PULL BOXES. USE CAUTION WHEN WORKING WITH CAT 6 CABLE NOT TO BEND OR CRIMP THE CABLE.

(COT 625) THIS PAY ITEM INCLUDES THE REMOVAL AND DELIVERY OF THE FOLLOWING EQUIPMENT TO THE CITY OF TULSA TRAFFIC OPERATIONS SHOP AT 3801 N HARVARD AVE, WHICH IS TO REMAIN THE PROPERTY OF THE CITY OF TULSA:

TRAFFIC SIGNAL ITEMS INCLUDE; MULTI-SIDED GALVANIZED TRAFFIC SIGNAL POLES, SIGNAL HEADS, PEDESTRIAN HEADS AND PUSH BUTTONS, BACK PLATES, CONTROLLER CABINET ASSEMBLY, CABINET GUARD, UNDAMAGED PULL BOX LIDS, MAST ARM SIGNS, ASTRO-BRACKETS, SPAN WIRE EQUIPMENT AND ANY OTHER TRAFFIC SIGNAL EQUIPMENT REMOVED EXCEPT FOR THE PULL BOXES, CONDUIT AND WIRE WHICH SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE PRICE BID SHALL INCLUDE THE REMOVAL OF ALL FOOTINGS BELOW GROUND LEVEL OR AS DIRECTED BY THE ENGINEER. FOOTINGS, GREEN ARM POLES, AND ALL OTHER SIGNAL POLES OTHER THAN THE MULTI-SIDED POLES ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

(1) THIS PAY ITEM INCLUDES A HIGH-SPEED DOME CAMERA WITH PROGRESSIVE SCAN AND 40X OPTICAL ZOOM MEETING THE SPECIFICATIONS OF THE Q6075-E NETWORK DOME CAMERA (OR APPROVED EQUAL). PAYMENT FOR THIS ITEM SHALL ALSO INCLUDE THE COST OF HOUSING, MOUNTING HARDWARE, AND OTHER APPURTENANCES TO MAKE THE PTZ OPERATIONAL. POWER OVER ETHERNET.

(2) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER.

(TS-19) QUANTITY SHOWN INCLUDES 1350 L.F. STRIPE (THERMOPLASTIC) (WHITE) AND 1120 L.F. STRIPE (THERMOPLASTIC) (YELLOW) AND WILL BE MEASURED BY THE LINEAR FOOT OF FOUR INCH (4") WIDE TRAFFIC STRIPE.

(TS-23) QUANTITY SHOWN INCLUDES 715 L.F. STRIPE (THERMOPLASTIC) (WHITE) AND WILL BE MEASURED BY THE LINEAR FOOT OF TWENTY-FOUR INCH (24") WIDE TRAFFIC STRIPE.

(TP-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY

(TC-25) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS AND ENGINEER IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION) AND COMPLIANT WITH APPLICABLE ODOT STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS REQUIRED FOR COMPLETION OF THE PROJECT.

ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE "A" LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.

(G-2) MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE SECTION 641 OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION. EXCLUDES MOBILIZATION FOR WATERLINE WORK.

(G-3) CONSTRUCTION STAKING SHALL INCLUDE SURVEYING AND THE FURNISHING, PLACING, AND MAINTAINING OF THE CONSTRUCTION LAYOUT STAKES NECESSARY FOR THE PROPER COMPLETION AND INSPECTION OF THE ENTIRE PROJECT.

(G-4) THE COST TO REPLACE REMOVED OR DAMAGED SECTION CORNERS AND ALL OTHER PERMANENT RIGHT OF WAY MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NO ADDITIONAL PAYMENT WILL BE MADE.

PROJECT NO. TD-23-0003

TRAFFIC PAY QUANTITIES & NOTES

N. PEORIA AVE. & MOHAWK BLVD.

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: TEC — TRAFFIC ENGINEERING CONSULTANTS, 6931 S. 66TH E. AVE., STE 100, TULSA, OK. 74133, PHONE: 918-481-8484 FAX: 918-481-3163

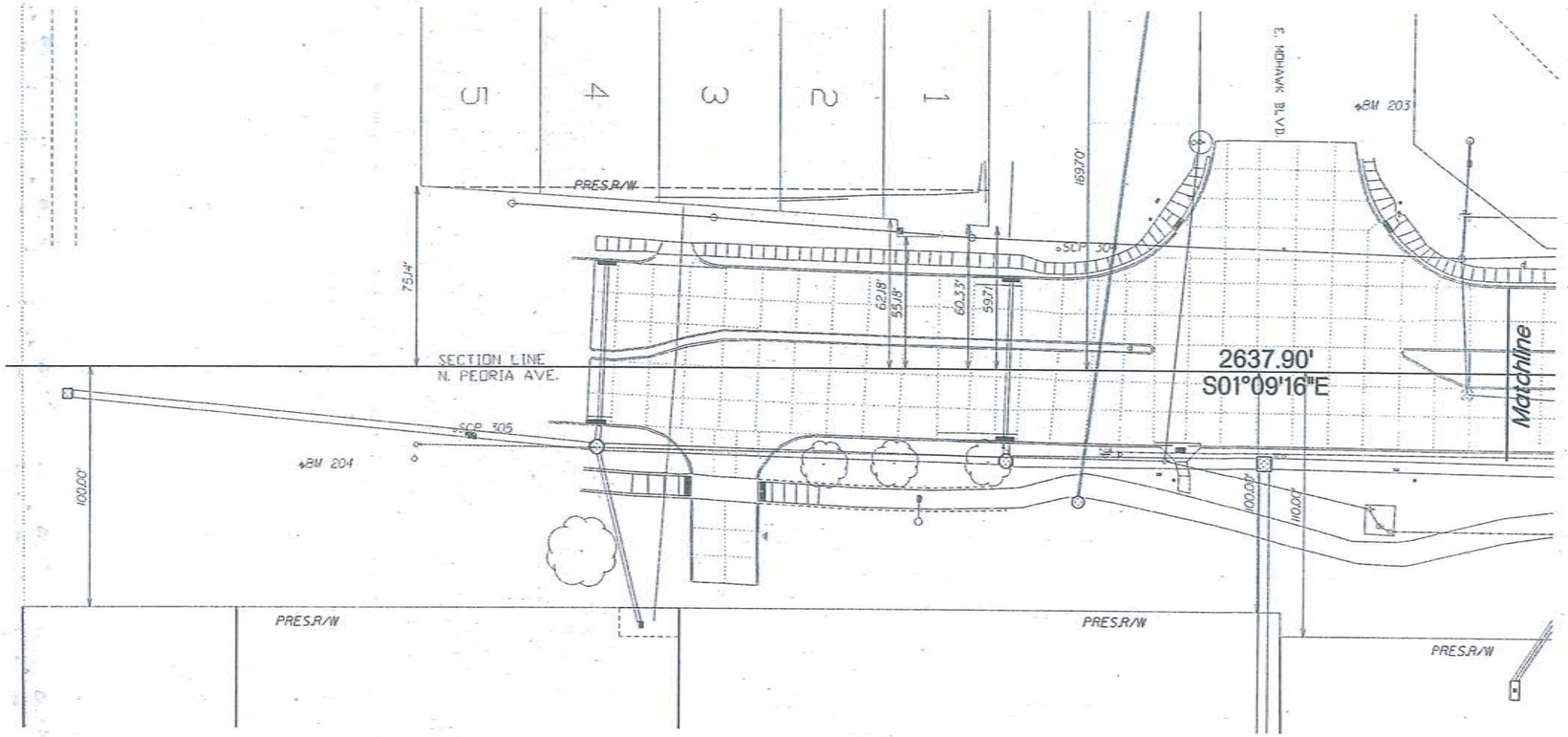
REVISION	BY	DATE

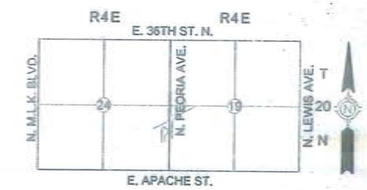
PLAN SCALE: 1" = NA	DRAWN	MAP	2/27/2025	APPROVED:
	DESIGNED	EMS	2/27/2025	
	SURVEY			
PROFILE SCALE:	PROJ. MGR.	MVS	03/2025	
HORIZONTAL: 1" = NA	LEAD ENGR.			
	FIELD MGR.		3/25	
VERTICAL 1" = NA	RECOMMENDED: 3.25 DESIGN MANAGER			CITY ENGINEER
FILE:	DRAWING:			DATE: 3/25/2025
ATLAS PAGE NO:				SHEET 03 OF 16 SHEETS

2/27/2025 G:\01Projects\02 Tulsa Office Projects\TD-993 - SD, Peoria and Mohawk at Gilcrease Expressway - Tulsa, OK\CAD\03-QUANT & NOTES.dgn

SURVEY DATA SHEET

North Peoria Ave
at Mohawk Blvd.
TULSA COUNTY





Location Map

Onsite Vertical Control				
PT Name	Northing	Easting	Elevation	Description
200	442908.397	2565736.612	632.062	CUT BOX SET
201	442582.383	2565707.800	632.165	CUT BOX SET
202	442355.090	2565890.800	631.897	CUT BOX SET
203	441819.839	2565674.479	636.755	CUT BOX SET
204	441381.932	2565835.122	651.744	CUT BOX SET

Onsite Horizontal Control				
PT Name	Northing	Easting	Elevation	Description
300	442778.598	2565810.418	632.649	3/8 Iron Pin w/ plastic cap stamped 'CONTROL'
301	442542.331	2565724.697	635.083	3/8 Iron Pin w/ plastic cap stamped 'CONTROL'
302	442230.063	2565776.876	632.627	MAGNAIL SET
303	441915.500	2565781.455	636.820	MAGNAIL SET
304	441696.229	2565737.079	641.031	3/8 Iron Pin w/ plastic cap stamped 'CONTROL'
305	441445.649	2565819.124	648.799	3/8 Iron Pin w/ plastic cap stamped 'CONTROL'

Offsite Horizontal and Vertical Control				
PT Name	Northing	Easting	Elevation	Description
TA51	445267.160	2564568.628	653.01	2IN ALUM CAP SET IN CONCRETE - LOCATED 28.6 FT EAST OF THE CENTERLINE OF THE OSAGE PRAIRIE TRAIL - 48.3 FT NORTHEAST OF A 3FT TALL METAL GUARD POST - 73.0 FT NORTH OF THE CENTERLINE OF 36TH STREET NORTH
TA06	439987.414	2563679.787	653.73	2IN ALUM CAP SET IN CONCRETE - LOCATED 40.8 FT NORTH OF THE CENTERLINE OF A 12IN STEEL POST - 24.9 FT SOUTHEAST OF THE CENTERLINE OF A MANHOLE COVER - 90.9 FT NORTH OF THE CENTERLINE OF APACHE STREET.

HORIZONTAL CONTROL:

POSITIONAL CONTROL FOR THIS SURVEY IS THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM, NAD83 (2011), LAMBERT PROJECTION (NORTH ZONE).

BEARINGS:

THE BEARINGS SHOWN HEREIN OR HEREON ARE GRID BEARINGS DERIVED FROM THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM AND ARE NOT ASTRONOMICAL.

VERTICAL CONTROL:

LEVEL DATUM IS NAVD 88 FROM LOCAL ADS CONTROL.

RUSSELL D. LAMBERTITE 1655 CERTIFIED PROFESSIONAL LAND SURVEYOR STATE OF OKLAHOMA

2-26-25

Scale: 1"=30'

0 30 60 120

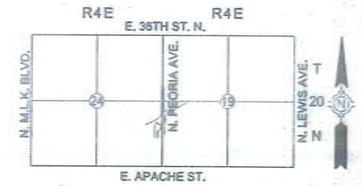
REVISIONS	BY	DATE
-	-	-

ISAACS SURVEYING

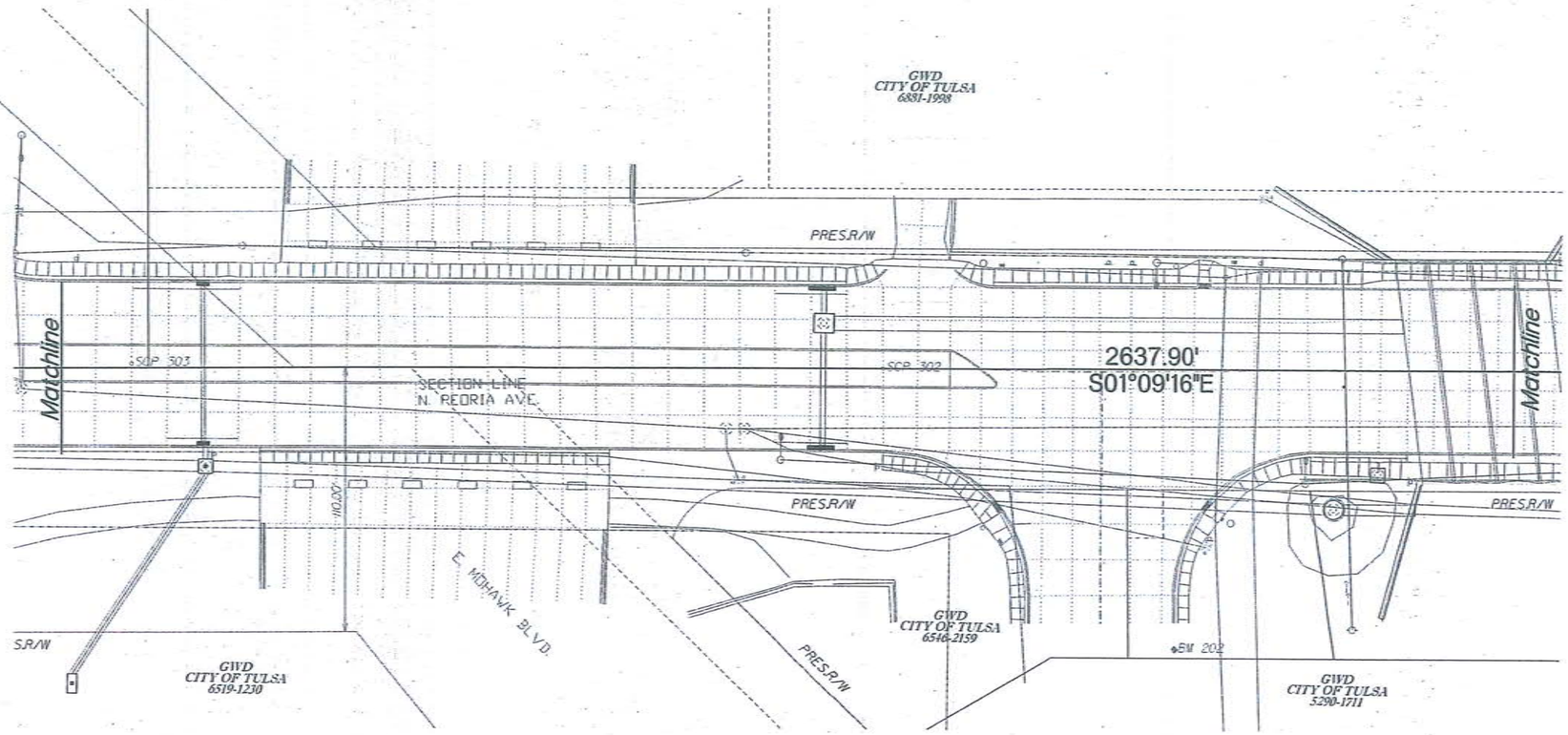
FILE:	SURVEY BY: ISS	SURVEY DATE: 02/05/24	
ORDER:	DRAWN BY: RDL	SCALE: 1"=30'	
ORIG. DOC. DATE:	CHECKED BY:	SHEET: 4 OF 16	

SURVEY DATA SHEET

North Peoria Ave
at Mohawk Blvd.
TULSA COUNTY



Location Map



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LEVEL DATUM IS NAVD 88 FROM LOCAL ADS CONTROL.

Scale: 1"=30'

0 30 60 120

REGISTERED PROFESSIONAL LAND SURVEYOR
RUSSELL D. LAMB-LOTTE
#1305
OKLAHOMA
2-26-25

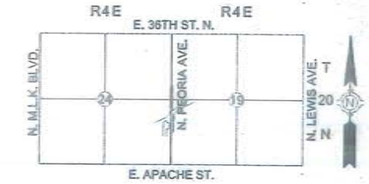
REVISIONS	BY	DATE
-	-	-

ISAACS SURVEYING
P.O. BOX 70 | OWASSO, OK 74055
PHONE: (918) 245-0415 | EMAIL: INFO@ISAACSSURVEYING.COM
CA NO. 2427, EXP. 6/30/25

FILE:	SURVEY BY: ISS	SURVEY DATE: 02/05/24	
ORDER:	DRAWN BY: RDL	SCALE: 1"=30'	
GPNL DOC. DATE:	CHECKED BY:	SHEET 5 OF 16	

SURVEY DATA SHEET

North Peoria Ave
at Mohawk Blvd.
TULSA COUNTY



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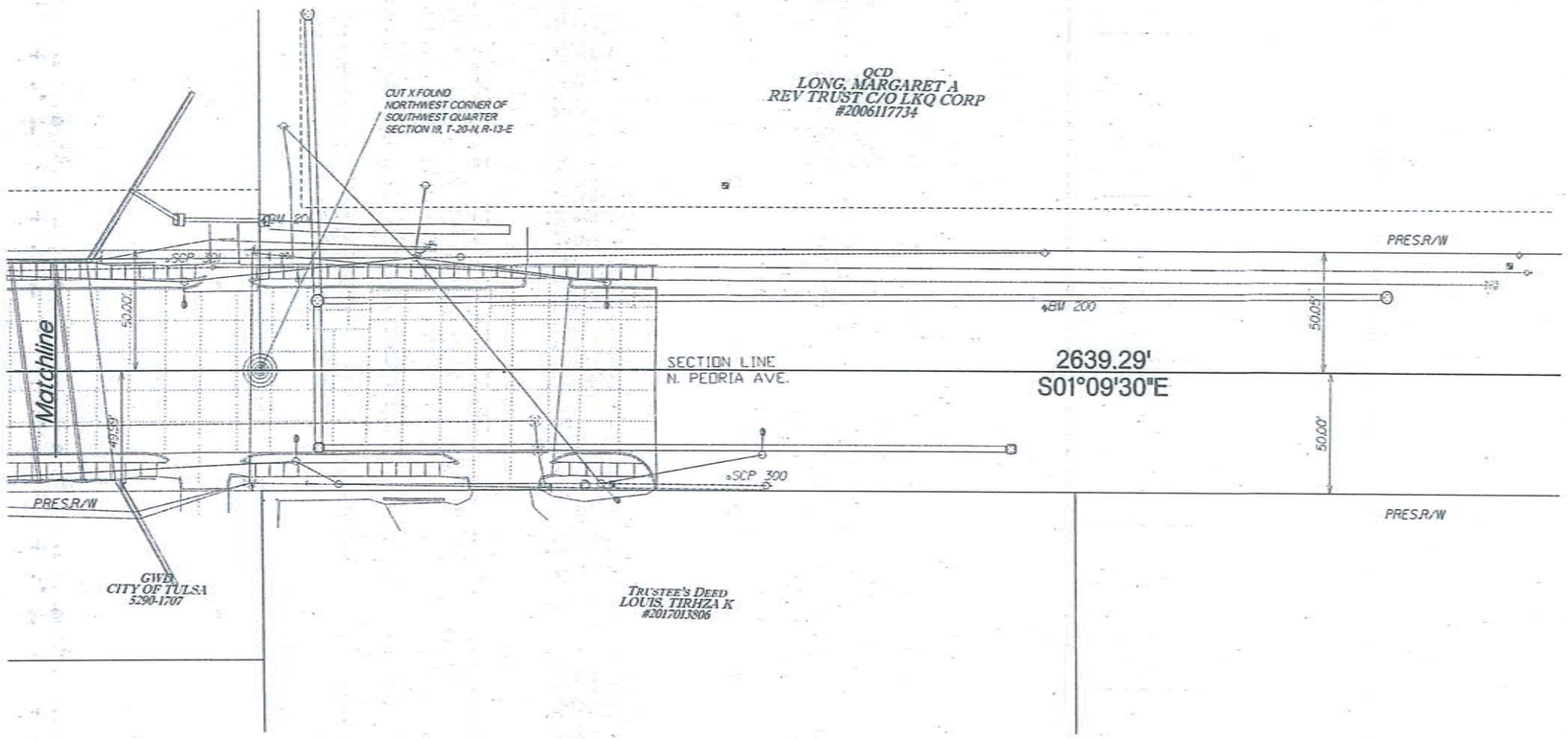

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VERTICAL CONTROL:

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Scale: 1"=30'

0 30 60 120

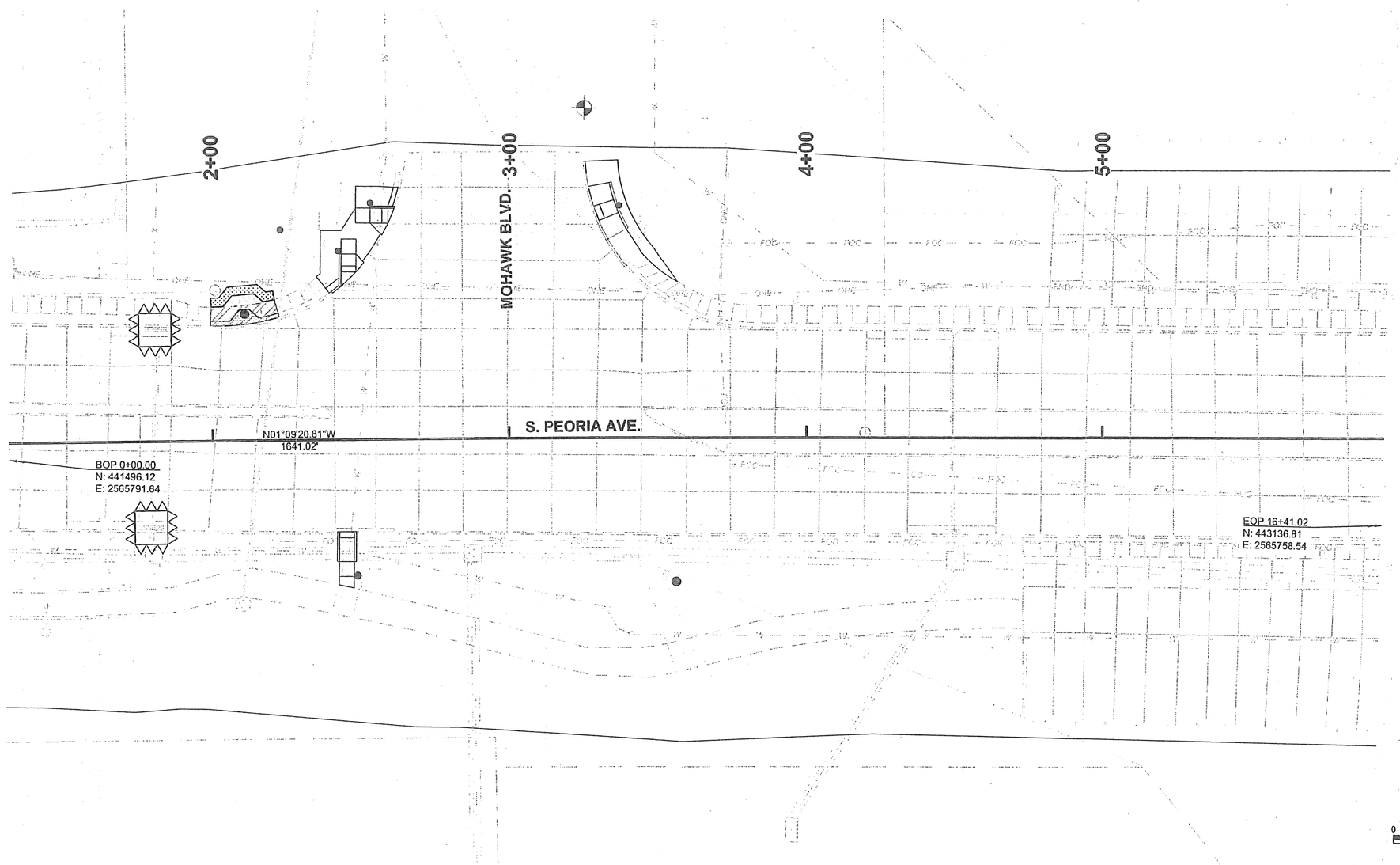
RUSSELL D. LAMBILLOTTE 1549 OKLAHOMA PROFESSIONAL LAND SURVEYOR

2-26-25

REVISIONS	BY	DATE
-	-	-

SAACS SURVEYING

FILE:	SURVEY BY: ISS	SURVEY DATE: 02/05/24	
ORDER:	DRAWN BY: RDL	SCALE: 1"=30'	
ORIG. DOC. DATE:	CHECKED BY:	SHEET: 6 OF 16	



LEGEND

PROPOSED SEDIMENT FILTER

PROPOSED SLAB SODDING

SCALE 1"=20'

0 20' 40'

LICENSED PROFESSIONAL ENGINEER JACOB CAMPBELL 34190 OKLAHOMA

BEFORE YOU DIG CALL OKIE

EROSION CONTROL PLAN

PROJECT NO. TU-23-0003

PEORIA AND MOHAWK INTERSECTION SIDEWALK

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

CEC

CEC Corporation
1300 S Main St, Tulsa, OK 74119
(918) 663-9401

REVISION	BY	DATE

PLAN SCALE

DRAWN	CRS	
DESIGNED	JLC	
SURVEY		
PROJECT MGR.		
LEAD ENGR.		
FIELD MGR.		
RECOMMENDED: HBS 3-25		
DESIGN MANAGER		

CITY ENGINEER

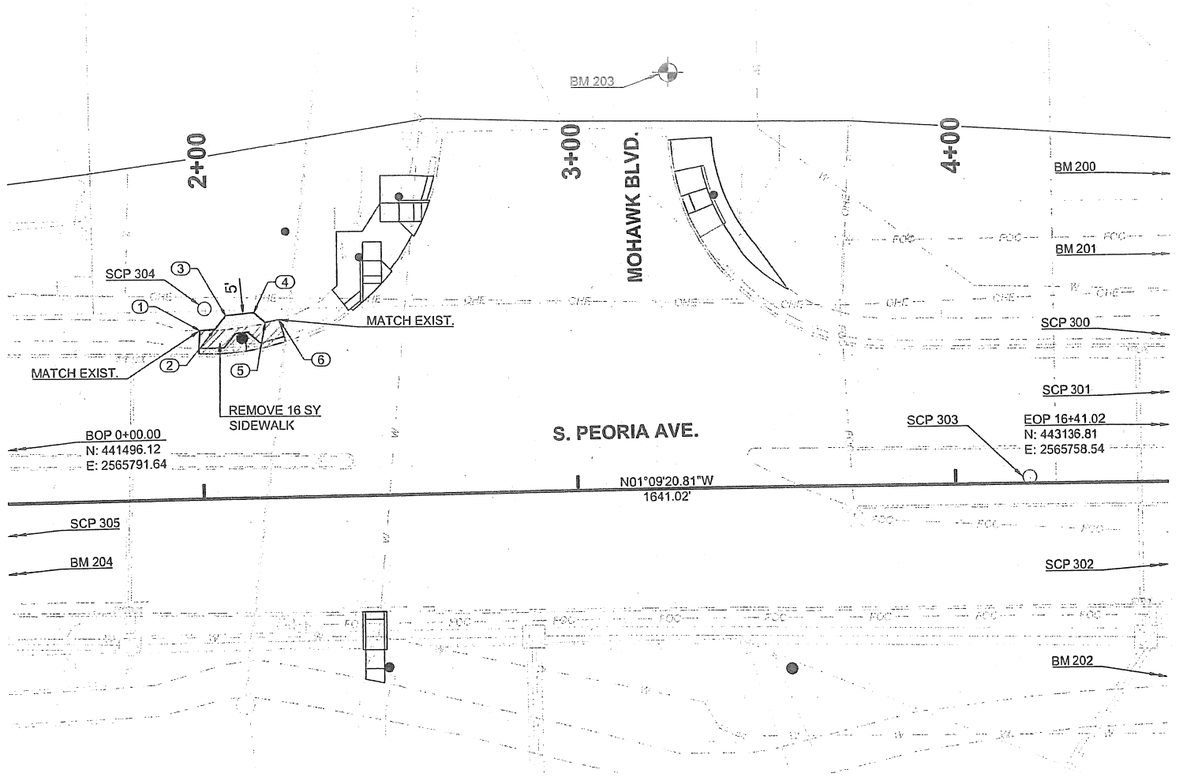
DATE: 3/25/2025

FILE:

ATLAS PAGE NO: 163, 164

SHEET 7 OF 16

PLOT DATE: February 21, 2025, DRAWING FILE: N:\MUNICIPAL\PROJECTS\TEC - PEORIA AND MOHAWK BLVD\PRODUCTION DRAWINGS\EROSION CONTROL PLAN.DWG



LEGEND

- PROPOSED SIDEWALK
- SIDEWALK TO BE REMOVED
- PROPOSED STAMPED SIDEWALK
- (1) POINT NUMBER

COORDINATE TABLE

POINT NO.	NORTHING	EASTING
1	441694.99	2565742.81
2	441699.00	2565742.51
3	441701.89	2565738.88
4	441709.36	2565738.13
5	441712.44	2565740.74
6	441716.15	2565740.03

EXISTING HORIZONTAL UTILITY LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION

LICENSED PROFESSIONAL ENGINEER JACOB CAMPBELL 34190 OKLAHOMA

BEFORE YOU DIG CALL OKIE

CONTROL POINT TABLE

NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
300	442778.598	2565810.418	632.649	3/8 Iron Pin w/ plastic cap stamped 'CONTROL'
301	442542.331	2565724.697	635.083	3/8 Iron Pin w/ plastic cap stamped 'CONTROL'
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305	441445.649	2565819.124	648.799	3/8 Iron Pin w/ plastic cap stamped 'CONTROL'

BENCHMARK TABLE

NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
200	442908.397	2565736.812	632.062	CUT BOX
201	442582.383	2565707.800	632.165	CUT BOX
202	442355.090	2565890.800	631.897	CUT BOX
203	441819.839	2565674.479	636.755	CUT BOX
204	441381.932	2565835.122	651.744	CUT BOX

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL NEWLY CONSTRUCTED PEDESTRIAN FACILITIES MEET THE REQUIREMENTS PROVIDED BY THE UNITED STATES ACCESS BOARD IN THE PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES.

SCALE 1"=20'

0 20' 40'

SIDEWALK PLAN

PROJECT NO. TO-23-0003

PEORIA AND MOHAWK INTERSECTION SIDEWALK

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

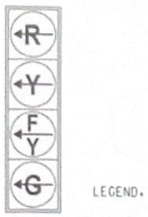
CEC

CEC Corporation
1300 S Main St, Tulsa, OK 74119
(918) 663-9401

REVISION	BY	DATE

PLAN SCALE			
	DRAWN	CRS	
	DESIGNED	JLC	
	SURVEY		
	PROJECT MGR.		
	LEAD ENGR.		
	FIELD MGR.		
	RECOMMENDED: 3-25 DESIGN MANAGER		
			CITY ENGINEER
FILE:			DATE: 3/25/2025
ATLAS PAGE NO: 163, 164			SHEET 8 OF 16

PLOT DATE: February 21, 2025, DRAWING FILE: N:\MUNICIPAL\PROJECTS\TEC - PEORIA AND MOHAWK BLVD\PRODUCTION DRAWINGS\SIDEWALK PLAN.DWG

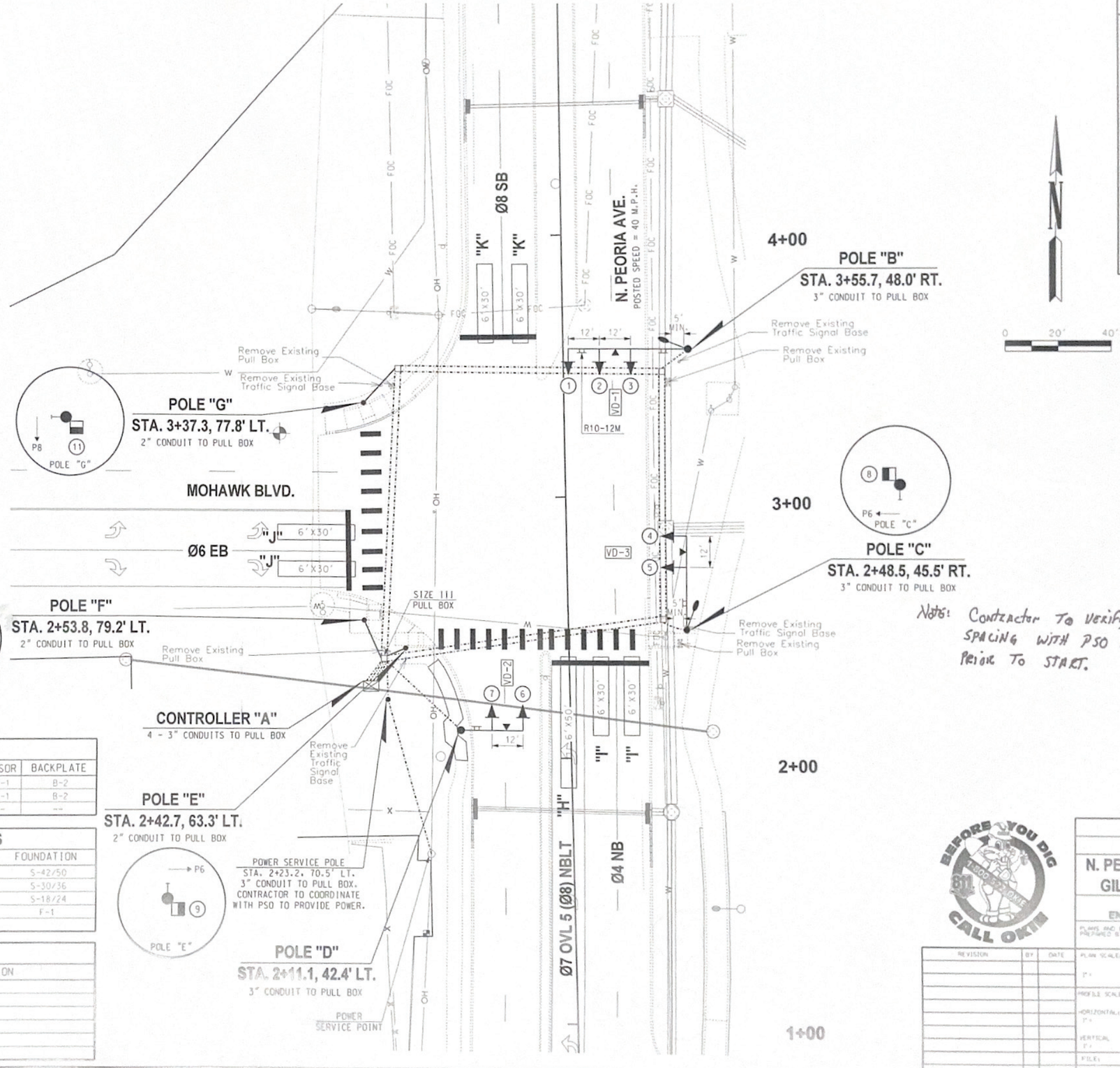


S-13L

R10-12M (MODIFIED)

30"x36"

LEGEND, SYMBOL & BORDER - BLACK NON-REFLECTIVE
ARROW - YELLOW REFLECTIVE
BACKGROUND - WHITE REFLECTIVE



LEGEND

- 1½" ELECT. CONDUIT
- 2" ELECT. CONDUIT
- 3" ELECT. CONDUIT
- EXISTING CONDUIT
- SIZE III PULL BOX (UNLESS OTHERWISE NOTED)
- EXISTING PULL BOX
- PEDESTRIAN PUSH BUTTON
- WALK AND DON'T WALK
- SIGNAL HEAD WITH BACKPLATE
- LUMINAIRE WITH MAST ARM
- OPTICAL DETECTOR
- VIDEO DETECTION
- STREET NAME SIGN
- MAST ARM WITH POLE
- SIGNAL HEAD NO.
- MAST ARM & POLE WITH ABOVE SYMBOLS
- VIDEO DETECTION AREA

VIDEO DETECTION NOTE:
VIDEO DETECTION WILL BE PROVIDED FOR THIS INTERSECTION. THE DETECTOR LOOPS SHOWN ON THE PAVEMENT ARE SHOWN TO DEPICT THE VIDEO DETECTION AREAS ALONG WITH THE PHASES THAT EACH DETECTOR SHALL CALL.

PUSH BUTTON NOTE:
THE POLE ENLARGEMENT DETAIL IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE PLACEMENT OF THE PEDESTRIAN PUSH BUTTONS AND SIGNAL HEADS SHALL BE INSTALLED ON THE POLES SUCH THAT THE SIGNAL HEADS ARE VISIBLE FROM THE CROSSWALK AND THE PUSH BUTTONS TO BE INSTALLED 10 INCHES MAXIMUM FROM THE EDGE OF THE LEVEL. ALL-WEATHER SURFACE (SIDEWALK) AND 10 FEET MAXIMUM FROM THE FACE OF THE CURB AT THE RAMP. THE PUSH BUTTONS ARE TO BE MOUNTED ON THE SIDE OF THE POLE CLOSEST TO THE CORRESPONDING CROSSWALK.

Note: Contractor To Verify Minimum Spacing With PSO CAN BE MET Prior To START.

TABLE # 1 SIGNAL HEADS

SIGNAL HEAD NUMBER	NUMBER AND TYPE	MOUNTING	VISOR	BACKPLATE
1	1 - ONEWAY S-13L	MAST ARM	V-1	B-2
2,3,4,5,6,7	6 - ONEWAY #36	MAST ARM	V-1	B-2
8,9,10,11	4 - ONEWAY #33	CLAMP	--	--

TABLE # 2 MAST ARMS & POLES

LOCATION	MOUNTING HT.	MAST ARMS LENGTHS	FOUNDATION
B	30'	3Q46-E	S-42/50
C	30'	2B36-E	S-30/36
D	21'	1R24	S-18/24
E,F,G	10'	3 - PED POLES	F-1

TABLE # 3 ELECTRICAL CABLE

ELECTRICAL CABLE TO CONTROLLER "A" LOCATION

B-20C#14/#12 THHN GREEN/#6 THHN GREEN/2C#12 UF/VIDEO
C-20C#14/#12 THHN GREEN/#6 THHN GREEN/7C#14/2C#12 UF/VIDEO
D-20C#14/#12 THHN GREEN/#6 THHN GREEN/VIDEO
E-#12 THHN GREEN/#6 THHN GREEN/7C#14
F-#12 THHN GREEN/#6 THHN GREEN/7C#14
G-#12 THHN GREEN/#6 THHN GREEN/7C#14

BEFORE YOU DIG CALL OKIE 811

REVISION	BY	DATE

PROJECT NO. TD-23-0003
SIGNAL PLAN EB
N. PEORIA AVE. & MOHAWK BLVD.
GILCREASE EXPY. E.B. RAMPS
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: TEC
TRAFFIC ENGINEERING CONSULTANTS
6501 S. 60TH E. AVE., STE 120
TULSA, OK. 74133
PHONE: 918-491-8484 FAX: 918-491-2162

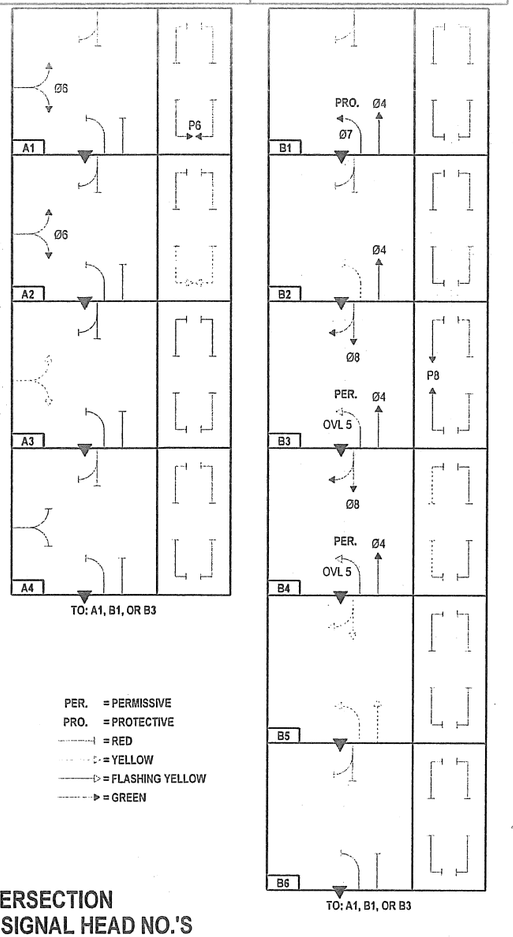
PLAN SCALE: 1" =	DRAWN	MAP	02/24/25
	DESIGNED	EMS	02/24/25
	SURVEY		
PROFILE SCALE:	PROJ. MGR.	MVS	03/2025
HORIZONTAL: 1" =	LEAD ENGR.		
	FIELD MGR.	CAH	3/25
VERTICAL: 1" =	RECOMMENDED: DESIGN MANAGER	MAS	3-25
FILE:	DRAWINGS		
ATLAS PAGE NO:			

APPROVED:
CITY ENGINEER
DATE: 3/25/2025
SHEET 89 OF 16 SHEETS

02/24/25 G:\Office\active\02 Tulsa Office Projects\TD-993 SD_Peoria and Mohawk at Gilcrease Expressway - Tulsa, OK\CAD\09-GILCREASE & MOHAWK EB RAMPS.dgn

PHASING DIAGRAM

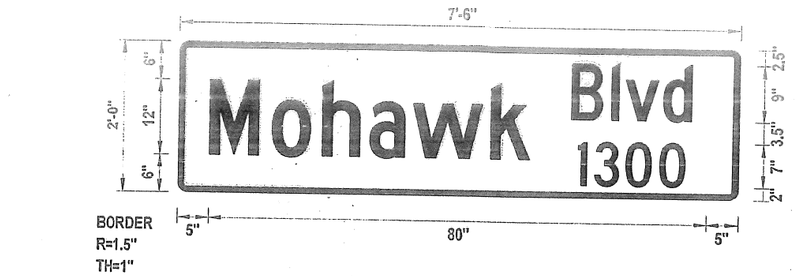
PHASE "A"	PHASE "B"
MOHAWK BLVD.	N. PEORIA AVE.

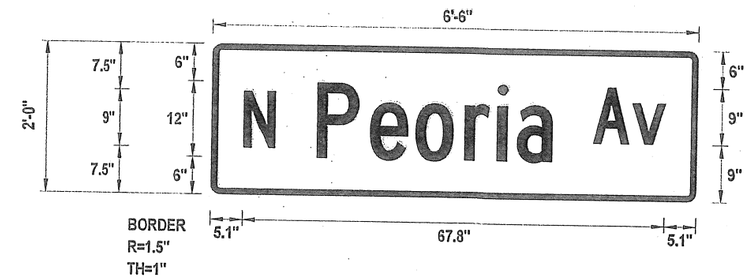


PER. = PERMISSIVE
PRO. = PROTECTIVE
= RED
= YELLOW
= FLASHING YELLOW
= GREEN

SEQUENCE CHART

DIRECTION	BLOCK NO.	PHASE: Ø7 OVL 5	Ø4	Ø6	Ø8	P6	P8
		SIGNAL HEAD NO. 1	2,3	4,5	6,7	8,9	10,11
Ø6, P6 ROW	A1	◄R	R	G	R	W	DW
Ø6 ROW & P6 CL	A2	◄R	R	G	R	FDW	DW
Ø6 CL	A3	◄R	R	Y	R	DW	DW
ALL RED	A4	◄R	R	R	R	DW	DW
Ø4, Ø7 ROW	B1	◄G	G	R	R	DW	DW
Ø4 ROW, Ø7 CL	B2	◄Y	G	R	R	DW	DW
Ø4, Ø8, OVL 5, P8 ROW	B3	◁FY	G	R	G	DW	W
Ø4, Ø8, OVL 5 ROW & P8 CL	B4	◁FY	G	R	G	DW	FDW
Ø4, Ø8, OVL 5 CL	B5	◄Y	Y	R	Y	DW	DW
ALL RED	B6	◄R	R	R	R	DW	DW
FLASHING OPERATION	–	◄FR	FR	FR	FR	–	–





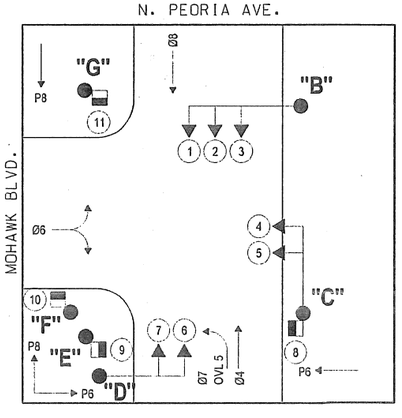
SUMMARY OF MAST ARM MOUNTED SIGNS

MESSAGE	POLE LOCATION	NO. OF SIGN	LENGTH	HEIGHT	SQ. FT. SIGN AREA	TOTAL AREA SQ. FT.
N Peoria Av	C	1	78"	24"	13.00	13.00
Mohawk Blvd	B,D	2	90"	24"	15.00	30.00
R10-12M	B	1	30"	36"	7.50	7.50
					TOTAL	50.50

PRIMARY DIRECTION = 9" SERIES 'C' STANDARD HIGHWAY (WHITE)
NUMBER / NAME = 12" SERIES 'C' STANDARD HIGHWAY (WHITE)
NUMBER SUFFIX = 9" SERIES 'C' STANDARD HIGHWAY (WHITE)
SECONDARY DIRECTION = 12" SERIES 'C' STANDARD HIGHWAY (WHITE)
STREET TYPE = 9" SERIES 'C' STANDARD HIGHWAY (WHITE)
BLOCK NUMBER = 7" SERIES 'C' STANDARD HIGHWAY (WHITE)

SHEETING = DIAMOND GRADE VIP (WHITE)
OVERLAY = ELECTRONIC CUTTABLE OVERLAY FILM (GREEN)

INTERSECTION PHASING & SIGNAL HEAD NO.'S



SIGNAL TIMING TABLE (SOUTH MOHAWK)

PHASE	1	2	3	4	5	6	7	8	OVL 5	
MOVEMENT				NB		EB	NBLT	SB	8	
MIN GRN				5		5	5	5		
GAP				3		3	3	3		
MAX 1				53		36	14	40		
MAX 2										
YELLOW				3		3	3	3		
RED				2		2	2	2		
WALK										
PED CLEAR										
MIN RECALL				X				X		
NON-LOCK										

OVERLAP CHART

Overlap	Type	Protected	Permissive	Ped Protect
5	PPTL	7	8	8

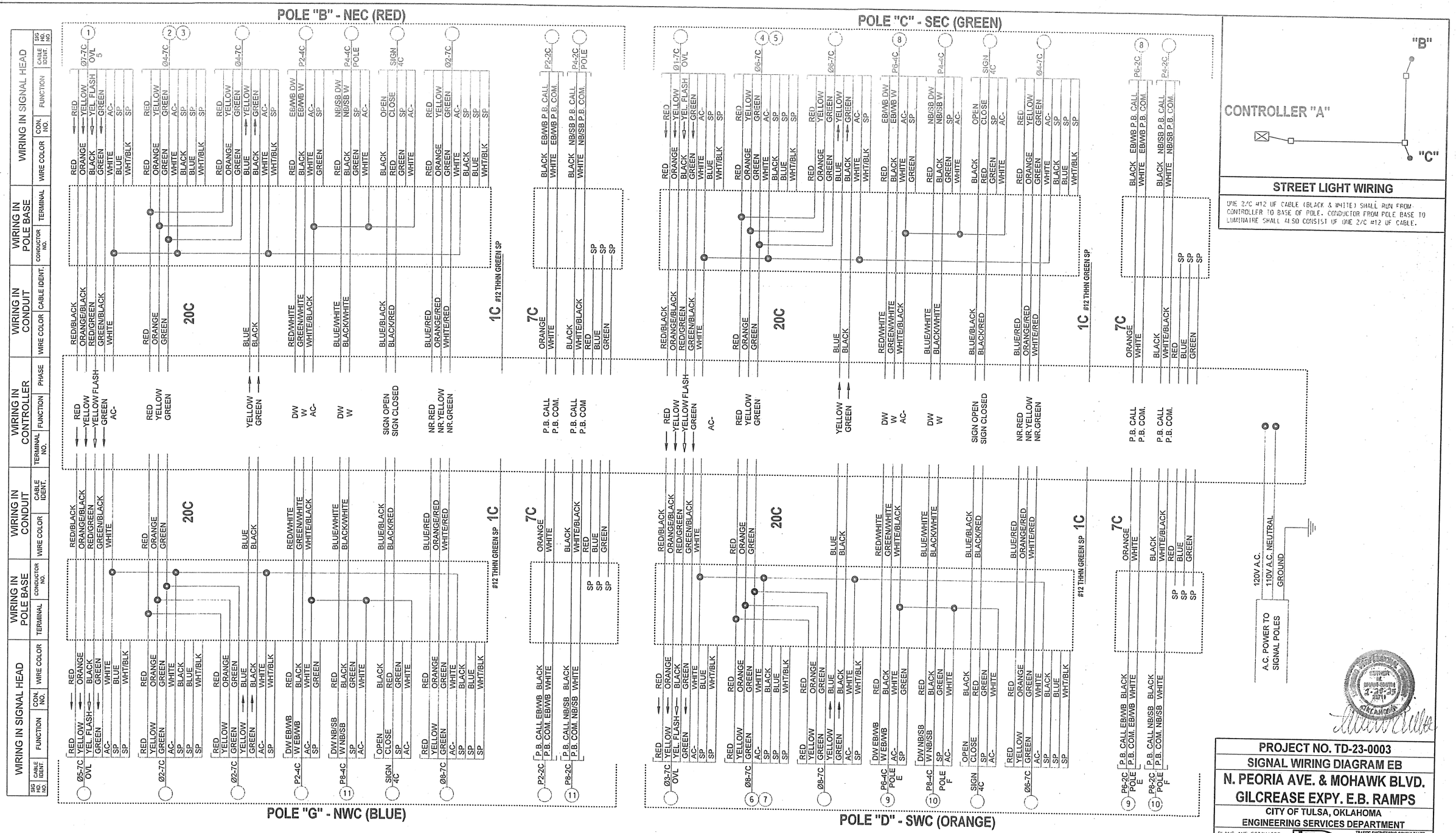
REVISION	BY	DATE

PROJECT NO. TD-23-0003
SIGNAL DETAIL EB
N. PEORIA AVE. & MOHAWK BLVD.
GILCREASE EXPY. E.B. RAMPS
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: TEC
TRAFFIC ENGINEERING CONSULTANTS
6831 S. 66TH E. AVE. STE 100
TULSA, OK. 74133
PHONE: 918-451-8404 FAX: 918-451-3163

PLAN SCALE: 1" = NA	DRAWN	MGF	02/24/25	APPROVED:
	DESIGNED	EMS	02/24/25	
	SURVEY			
PROFILE SCALE:	PROJ. MGR.	WVS	03/2025	
HORIZONTAL: 1" = NA	LEAD ENGR.			
	FIELD MGR.	CAG	3/25	
VERTICAL 1" = NA	RECOMMENDED: HAS 3-25 DESIGN MANAGER			CITY ENGINEER
FILE:	DRAWING:			DATE: 3/25/2025
ATLAS PAGE NO:				SHEET 10 OF 10 SHEETS

G:\NProjects\02 Tulsa Office Projects\TD-993 - SD.Peoria and Mohawk at Gilcrease Expressway - Tulsa, OK\ADMIN\GILCREASE & MOHAWK EB RAMPS DET.dgn
02/24/25



NOTE:
IF JUMPERS OR OTHER CONNECTIONS ARE MADE IN THE FIELD DURING INSTALLATION, AND ARE ACCEPTED BY THE ENGINEER THIS SHOULD BE SHOWN ON THE WIRING DIAGRAM FOR FUTURE REFERENCE.

REVISION	BY	DATE

PROJECT NO. TD-23-0003

SIGNAL WIRING DIAGRAM EB

N. PEORIA AVE. & MOHAWK BLVD.

GILCREASE EXPY. E.B. RAMPS

CITY OF TULSA, OKLAHOMA

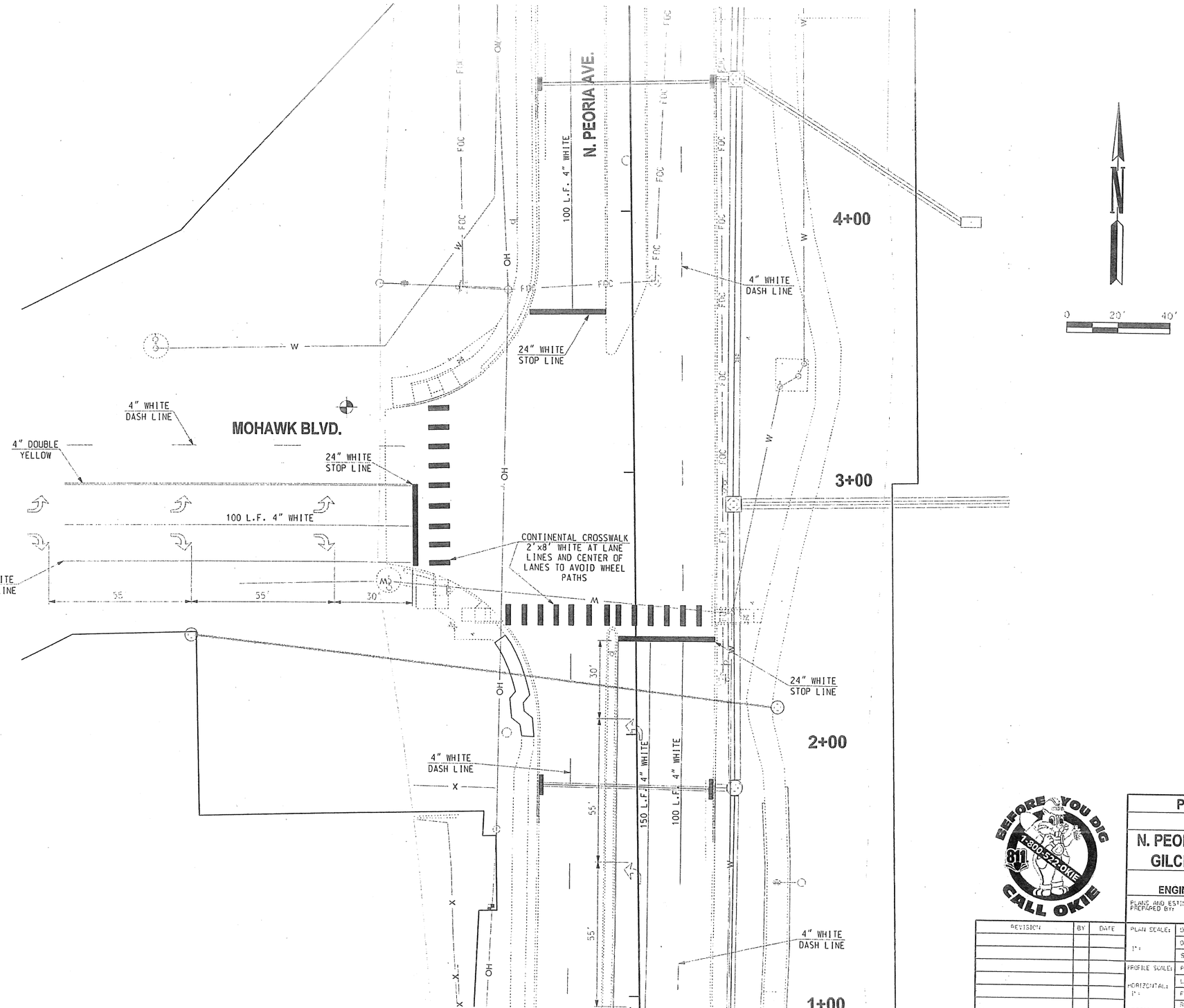
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: TEC

TRAFFIC ENGINEERING CONSULTANTS
6801 S. 66TH E. AVE., STE 100
TULSA, OK. 74133
PHONE: 918-481-5484 FAX: 918-481-3163

PLAN SCALE: 1" =	DRAWN	MAP	02/24/25	APPROVED:
	DESIGNED	EMS	02/24/25	
	SURVEY			
PROFILE SCALE:	PROJ. MGR.	MWS	03/2025	
HORIZONTAL: 1" =	LEAD ENGR.			
	FIELD MGR.	CAG	3/25	
VERTICAL 1" =	RECOMMENDED: DESIGN MANAGER	HBS	3-25	CITY ENGINEER
FILE:	DRAWING:			DATE: 3/25/2025
WILKS PAGE NO:				SHEET 11 OF 16 SHEETS

02/24/25 G:\Projects\02 Tulsa Office Projects\TD-193 - SD Peoria and Mohawk at Gilcrease Expressway Tulsa, OK\MOHAWK-GILCREASE & MOHAWK EB RAMPS.DGN



BEFORE YOU DIG CALL OKIE 1-800-522-OKIE 811

PROJECT NO. TD-23-0003
STRIPING PLAN EB
N. PEORIA AVE. & MOHAWK BLVD.
GILCREASE EXPY. E.B. RAMPS
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

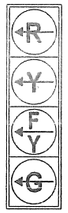
PLANS AND ESTIMATES PREPARED BY: TEC

TRAFFIC ENGINEERING CONSULTANTS
6531 S. 66TH E. AVE., STE 100
TULSA, OK. 74133
PHONE: 918-481-5454 FAX: 918-481-5183

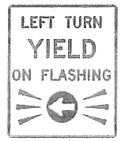
REVISION	BY	DATE

PLAN SCALE: 1" =	DRAWN	MKP	02/24/25	APPROVED:
	DESIGNED	EMS	02/24/25	
	SURVEY			
PROFILE SCALE:	PROJ. MGR.	MRS	03/2025	
HORIZONTAL: 1" =	LEAD ENGR.			
	FIELD MGR.	LM	3/25	
VERTICAL 1" =	RECOMMENDED:	MRS	3-25	CITY ENGINEER
	DESIGN MANAGER			
FILE:	DRAWING:			DATE: 3/25/2025
GRIDS PAGE NO:				SHEET 12 OF 16 SHEETS

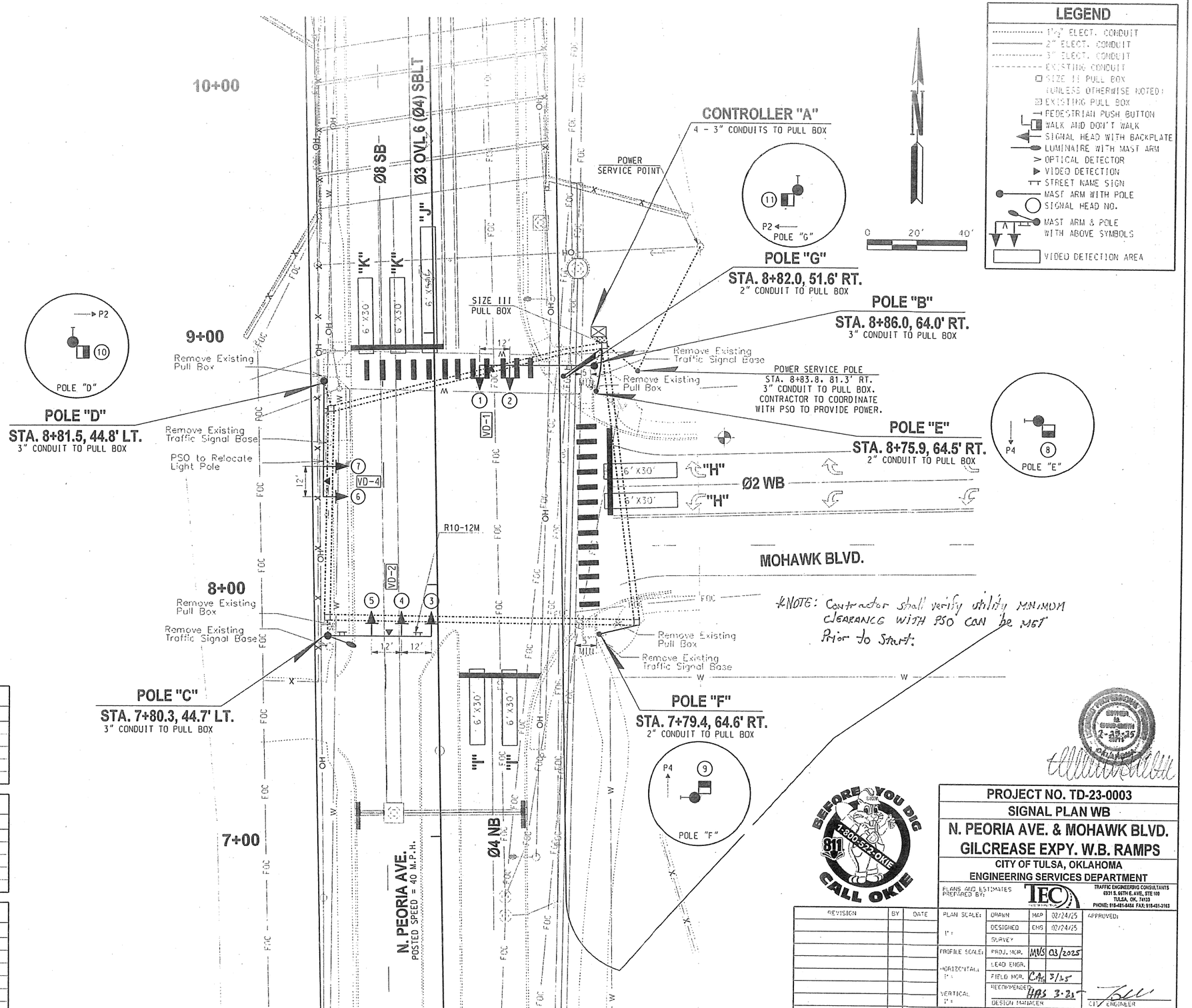
02/24/25 G:\Projects\02 Tulsa Office Projects\TD-993 - SD.Peoria and Mohawk at Gilcrease Expressway Tulsa,OK\L40\2 GILCREASE & MOHAWK EB RAMPS STRIPE.dwg



S-13L



R10-12M (MODIFIED)
30"X36"
LEGEND, SYMBOL & BORDER - BLACK NON-REFLECTIVE
ARROW - YELLOW REFLECTIVE
BACKGROUND - WHITE REFLECTIVE



VIDEO DETECTION NOTE:
VIDEO DETECTION WILL BE PROVIDED FOR THIS INTERSECTION. THE DETECTOR LOOPS SHOWN ON THE PAVEMENT ARE SHOWN TO DEPICT THE VIDEO DETECTION AREAS ALONG WITH THE PHASES THAT EACH DETECTOR SHALL CALL.

PUSH BUTTON NOTE:
THE POLE ENLARGEMENT DETAIL IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE PLACEMENT OF THE PEDESTRIAN PUSH BUTTONS AND SIGNAL HEADS SHALL BE INSTALLED ON THE POLES SUCH THAT THE SIGNAL HEADS ARE VISIBLE FROM THE CROSSWALK AND THE PUSH BUTTONS TO BE INSTALLED 10 INCHES MAXIMUM FROM THE EDGE OF THE LEVEL, ALL-WEATHER SURFACE (SIDEWALK) AND 10 FEET MAXIMUM FROM THE FACE OF THE CURB AT THE RAMP. THE PUSH BUTTONS ARE TO BE MOUNTED ON THE SIDE OF THE POLE CLOSEST TO THE CORRESPONDING CROSSWALK.

TABLE # 1 SIGNAL HEADS

SIGNAL HEAD NUMBER	NUMBER AND TYPE	MOUNTING	VISOR	BACKPLATE
3	1 - ONEWAY S-13L	MAST ARM	V-1	B-2
1,2,4,5,6,7	6 - ONEWAY #36	MAST ARM	V-1	B-2
8,9,10,11	4 - ONEWAY #33	CLAMP	---	---

TABLE # 2 MAST ARMS & POLES

LOCATION	MOUNTING HT.	MAST ARMS LENGTHS	FOUNDATION
B	21'	36'46	S-42/50
C	30'	36'42-E	S-42/50
D	21'	36'46	S-42/50
E,F,G	10'	5 - PED POLES	F-1

TABLE # 3 ELECTRICAL CABLE

ELECTRICAL CABLE TO CONTROLLER "A" LOCATION

B-20C#14/#12 THHN GREEN/#6 THHN GREEN/VIDEO
C-20C#14/#12 THHN GREEN/#6 THHN GREEN/2C#12 UF/VIDEO
D-20C#14/#12 THHN GREEN/#6 THHN GREEN/7C#14/VIDEO
E-#12 THHN GREEN/#6 THHN GREEN/7C#14
F-#12 THHN GREEN/#6 THHN GREEN/7C#14
G-#12 THHN GREEN/#6 THHN GREEN/7C#14

PROJECT NO. TD-23-0003
SIGNAL PLAN WB
N. PEORIA AVE. & MOHAWK BLVD.
GILCREASE EXPY. W.B. RAMPS
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: TEC
TRAFFIC ENGINEERING CONSULTANTS
6315 S. 66TH E.AVE., STE 100
TULSA, OK. 74133
PHONE: 918-481-8484 FAX: 918-481-3163

REVISION	BY	DATE

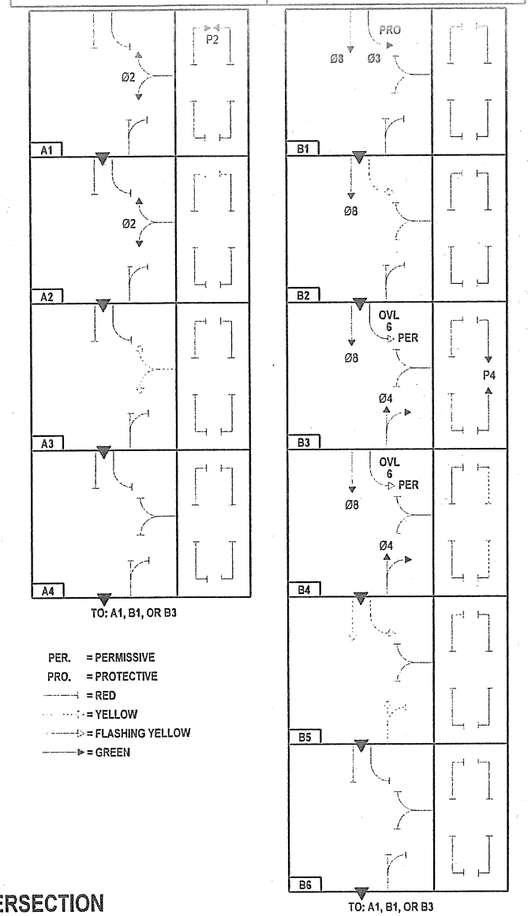
PLAN SCALE: 1" =	DRAWN	MAP	02/24/25	APPROVED:
	DESIGNED	EHS	02/24/25	
	SURVEY			
PROFILE SCALE:	PROJ. MGR.	MWS	03/2025	
HORIZONTAL: 1" =	LEAD ENGR.			
	FIELD MGR.	CAG	3/25	
VERTICAL 1" =	RECOMMENDED:	HAS	3-25	CITY ENGINEER
FILE:	DRAWING			DATE: 3/25/2025
ATLAS PAGE NO:				SHEET 13 OF 16 SHEETS

BEFORE YOU DIG CALL OKIE 1-800-522-OKIE 811

02/24/26 G:\Projects\02 Tulsa Office Projects\TD-993 - SR Peoria and Mohawk at Gilcrease Expressway - Tulsa,OK\CAD\3-GILCREASE & MOHAWK RB RAMPS.dgn

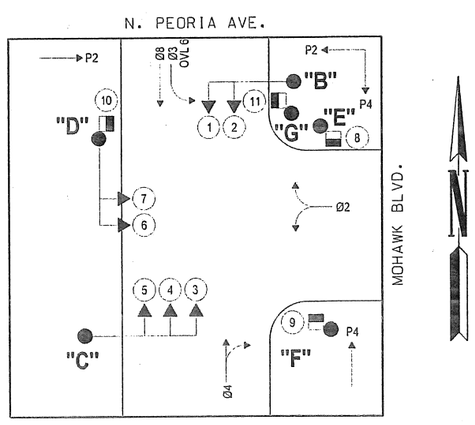
PHASING DIAGRAM

PHASE "A"	PHASE "B"
MOHAWK BLVD.	N. PEORIA AVE.



PER. = PERMISSIVE
PRO. = PROTECTIVE
= RED
= YELLOW
= FLASHING YELLOW
= GREEN

INTERSECTION PHASING & SIGNAL HEAD NO.'S



SEQUENCE CHART

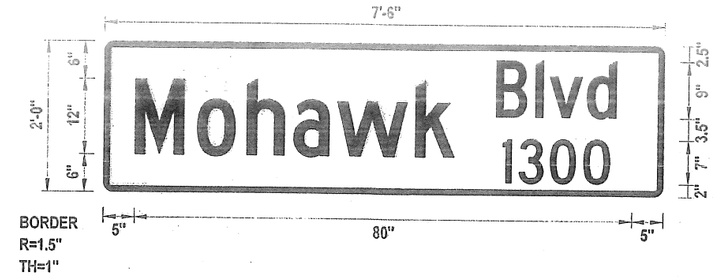
DIRECTION	BLOCK NO.	PHASE Ø4	Ø3 OVL 6	Ø8	Ø2	P4	P2
		SIGNAL HEAD NO.					
		1,2	3	4,5	6,7	8,9	10,11
Ø2, P2 ROW	A1	R	◄R	R	G	DW	W
Ø2 ROW & P2 CL	A2	R	◄R	R	G	DW	FDW
Ø2 CL	A3	R	◄R	R	Y	DW	DW
ALL RED	A4	R	◄R	R	R	DW	DW
Ø3, Ø8 ROW	B1	R	◄G	G	R	DW	DW
Ø8 ROW, Ø3 CL	B2	R	◄Y	G	R	DW	DW
Ø4, Ø8, OVL 6, P4 ROW	B3	G	◁FY	G	R	W	DW
Ø4, Ø8, OVL 6 ROW & P4 CL	B4	G	◁FY	G	R	FDW	DW
Ø4, Ø8, OVL 6 CL	B5	Y	◄Y	Y	R	DW	DW
ALL RED	B6	R	◄R	R	R	DW	DW
FLASHING OPERATION	–	FR	◄FR	FR	FR	–	–

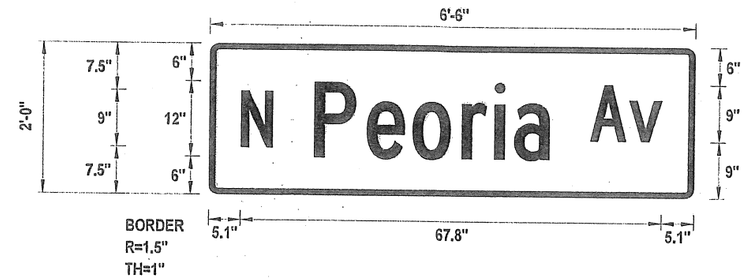
SIGNAL TIMING TABLE (NORTH MOHAWK - OFFSET 8s)

PHASE	1	2	3	4	5	6	7	8	OVL A	OVL B
MOVEMENT		WB	SBLT	NB				SB		
MIN GRN		5	5	5				5		
GAP		3	3	3				3		
MAX 1		37	14	39				53		
MAX 2										
YELLOW		3	3	3				3		
RED		2	2	2				2		
WALK		7		7						
PED CLEAR		24		21						
MIN RECALL				X				X		
NON-LOCK										

OVERLAP CHART

Overlap	Type	Protected	Permissive	Ped Protect
6	PPTL	3	4	4





SUMMARY OF MAST ARM MOUNTED SIGNS

MESSAGE	POLE LOCATION	NO. OF SIGN	LENGTH	HEIGHT	SQ. FT. SIGN AREA	TOTAL AREA SQ. FT.
N Peoria Av	D	1	78"	24"	13.00	13.00
Mohawk Blvd	B,C	2	90"	24"	15.00	30.00
R10-12M	C	1	30"	36"	7.50	7.50
					TOTAL	50.50

PRIMARY DIRECTION = 9" SERIES 'C' STANDARD HIGHWAY (WHITE)
NUMBER / NAME = 12" SERIES 'C' STANDARD HIGHWAY (WHITE)
NUMBER SUFFIX = 9" SERIES 'C' STANDARD HIGHWAY (WHITE)
SECONDARY DIRECTION = 12" SERIES 'C' STANDARD HIGHWAY (WHITE)
STREET TYPE = 9" SERIES 'C' STANDARD HIGHWAY (WHITE)
BLOCK NUMBER = 7" SERIES 'C' STANDARD HIGHWAY (WHITE)

SHEETING = DIAMOND GRADE VIP (WHITE)
OVERLAY = ELECTRONIC CUTTABLE OVERLAY FILM (GREEN)

PROJECT NO. TD-23-0003
SIGNAL DETAIL WB
N. PEORIA AVE. & MOHAWK BLVD.
GILCREASE EXPY. W.B. RAMPS
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

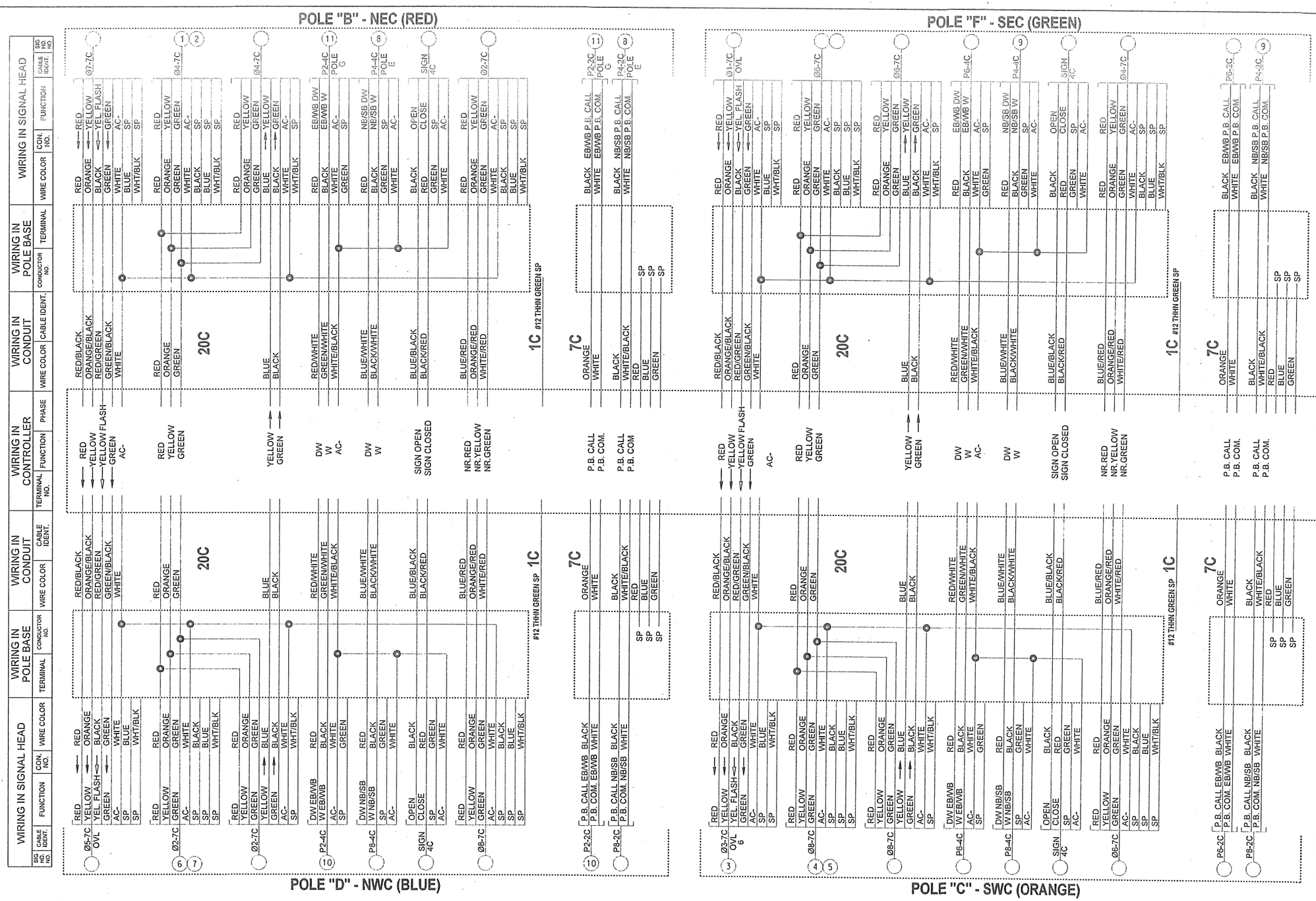
PLANS AND ESTIMATES PREPARED BY: TEC
TRAFFIC ENGINEERING CONSULTANTS
4801 S. 66TH E. AVE., STE 100
TULSA, OK. 74133
PHONE: 918-481-8484 FAX: 918-481-3163

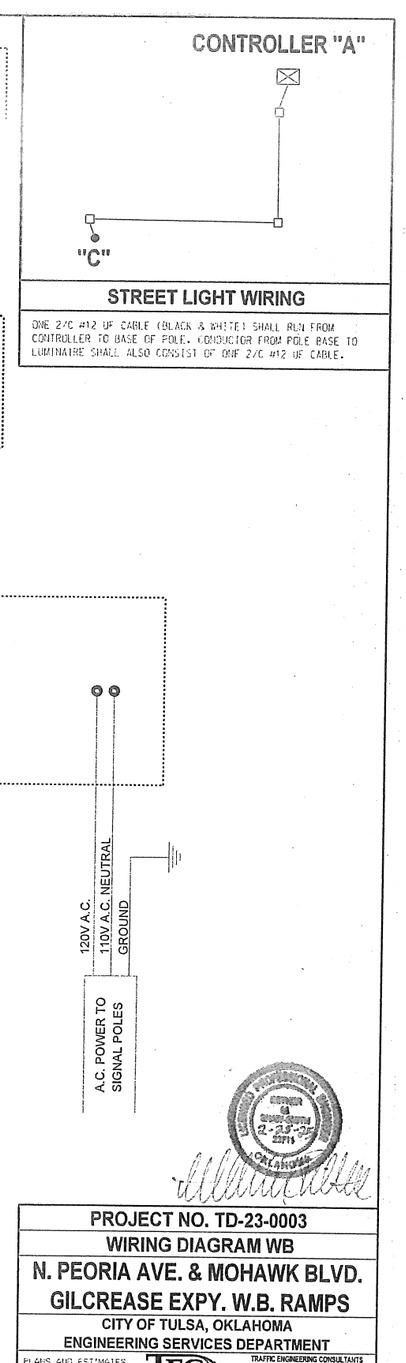
REVISION	BY	DATE

PLAN SCALE: 1"=50'	DRAWN	MAP	02/24/25
	DESIGNED	EMS	02/24/25
	SURVEY		
PROFILE SCALE:	PROJ. MGR.	MWS	03/2025
HORIZONTAL: 1"=50'	LEAD ENGR.		
	FIELD MGR.		3/25
VERTICAL: 1"=50'	RECOMMENDED		3-25
	DESIGN MANAGER		
FILE:	DRAWING:		
WORKS PAGE NO:			

APPROVED:
CITY ENGINEER
DATE: 3/25/2025
SHEET 14 OF 16 SHEETS

GoogleProjects\02 Tulsa Office Projects\TD-933 - SD,Peoria and Mohawk at Gilcrease Expressway - Tulsa,OK\CAD\14-GILCREASE & MOHAWK WB RAMPS DET.dgn





STREET LIGHT WIRING

ONE 2/C #12 OF CABLE (BLACK & WHITE) SHALL RUN FROM CONTROLLER TO BASE OF POLE. CONDUCTOR FROM POLE BASE TO LUMINAIRE SHALL ALSO CONSIST OF ONE 2/C #12 OF CABLE.

NOTE:
IF JUMPERS OR OTHER CONNECTIONS ARE MADE IN THE FIELD DURING INSTALLATION, AND ARE ACCEPTED BY THE ENGINEER THIS SHOULD BE SHOWN ON THE WIRING DIAGRAM FOR FUTURE REFERENCE.

REVISION	BY	DATE

PROJECT NO. TD-23-0003

WIRING DIAGRAM WB

N. PEORIA AVE. & MOHAWK BLVD.

GILCREASE EXPY. W.B. RAMPS

CITY OF TULSA, OKLAHOMA

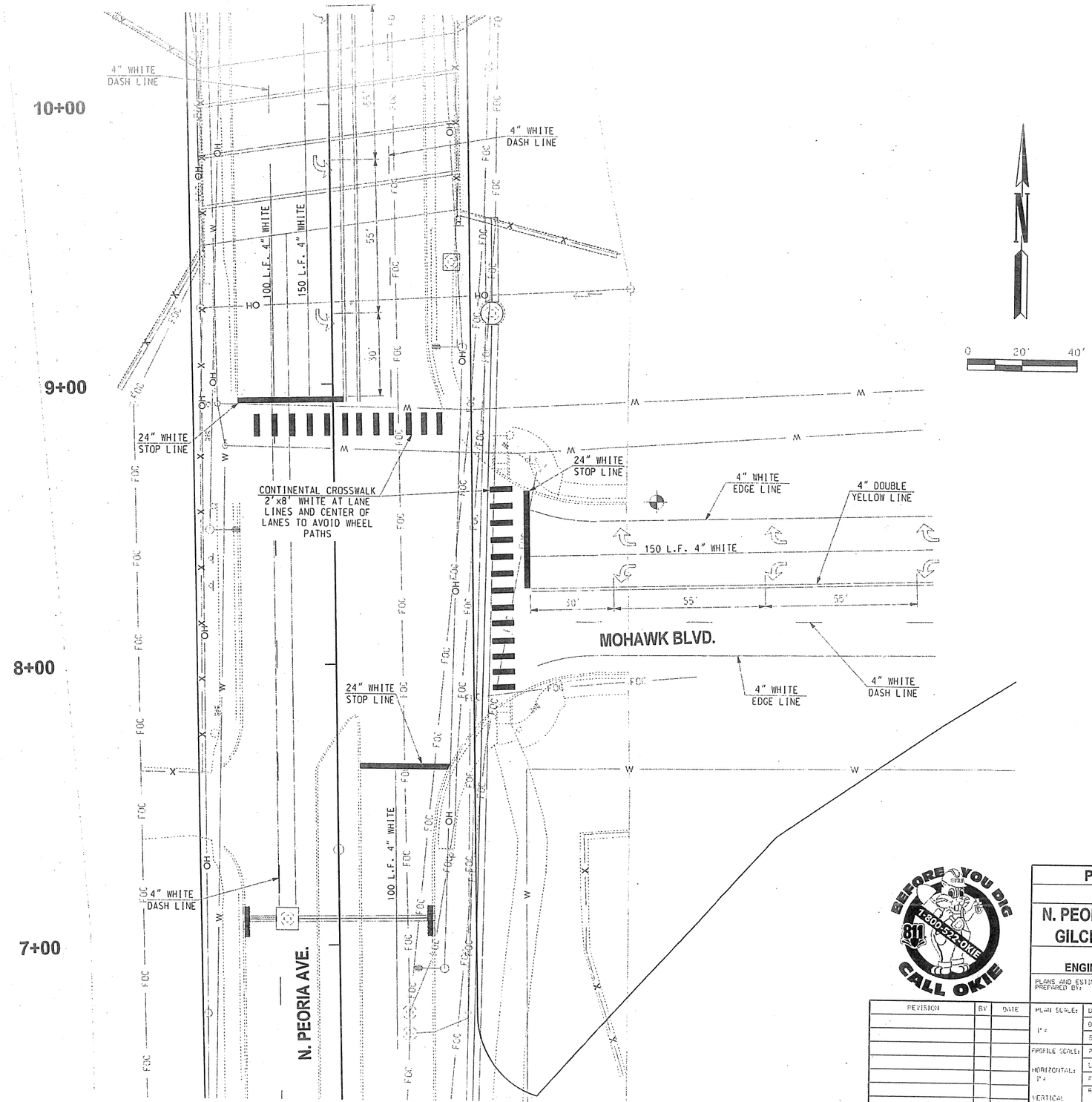
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: TEC

TRAFFIC ENGINEERING CONSULTANTS
6331 S. 66TH E. AVE., STE 100
TULSA, OK. 74133
PHONE: 918-481-5454 FAX: 918-481-3143

PLAN SCALE: 1" =	DRAWN	MAP	02/24/25	APPROVED:
	DESIGNED	EMS	02/24/25	
	SURVEY			
PROFILE SCALE:	PROJ. MGR.	MVS	03/2025	
HORIZONTAL: 1" =	LEAD ENGR.			
	FIELD MGR.	DRG	3/25	
VERTICAL: 1" =	RECOMMENDED: MVS 3-25			
	DESIGN MANAGER			CITY ENGINEER
FILE:	DRAWING:			DATE: 3/25/2025
ATLAS PAGE NO.				SHEET 18 OF 18 SHEETS

02-24-25 G:\DP\Projects\02 Tulsa Office Projects\10-993 - 50.Peoria and Mohawk at Gilcrease Expressway - Tulsa\Mohawk\GilCrease & Mohawk WB RAMPS WB.dgn



BEFORE YOU DIG CALL OKIE 1-800-522-OKIE 811

PROJECT NO. TD-23-0003
STRIPING PLAN WB
N. PEORIA AVE. & MOHAWK BLVD. GILCREASE EXPY. W.B. RAMPS
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: TEC

TRAFFIC ENGINEERING CONSULTANTS
6931 S. 66TH E. AVE., STE 100
TULSA, OK. 74133
PHONE: 918-481-8484 FAX: 918-481-3163

REVISION	BY	DATE

PLAN SCALE: 1" =	DRAWN	MAP	02/24/25	APPROVED:
	DESIGNED	EMS	02/24/25	
	SURVEY			
PROFILE SCALE:	PROJ. MGR.	MVS	03/2025	
HORIZONTAL: 1" =	LEAD ENGR.			
	FIELD MGR.			
VERTICAL 1" =	RECOMMENDED: MVS 3-25			CITY ENGINEER
	DESIGN MANAGER			DATE: 3/25/2025
FILE:	DRAWING:			SHEET 16 OF 16 SHEETS
ATLAS PAGE NO:				

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