ARTERIAL

NON-

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# **ODOT STANDARDS**

SSS-2-0 TCD-3-0 TSD-1-1-01 TCS4-1-01 TCS5-1-00 TCS6-1-02 TCS7-1-02

## CITY OF TULSA STANDARDS

	STD. NO.	TITLE
	102	PROJECT SIGN
	126	SILT FENCE AND CONSTR. ENTRANCE
	322	LOCATOR BALL PLACEMENT DETAIL
	401	MANHOLE GRADE ADJUSTMENT
	402	COVER, FRAME AND FRAME SEAL REPAIR
	409	CONCRETE MANHOLE COLLAR
	414	MANHOLE ADJUSTING RING
	608A	STREET NAME SIGNS
	608B	TRAFFIC SIGNS
	625	REMOVAL OF TRAFFIC ITEMS
	702	RESIDENTIAL CONCRETE DRIVEWAY ASPHALT STREET
	704	RESIDENTIAL ASPHALT DRIVEWAY ASPHALT STREET
	705	RESIDENTIAL DRIVE NO CURB
	706	COMMERCIAL DRIVEWAY
	707	COMMERCIAL DRIVEWAY
	708	COMMERCIAL ASPHALT DRIVEWAY
	709	PARKING LOTS
	713	PAVEMENT REMOVAL AND REPLACEMENT
	714	PAVEMENT CUTS
	725	STANDARD PAVEMENT PATCH AND REPAIR
	726	ASPHALT PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL,
		AND COLLECTOR STREETS
	727	CONCRETE PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL,
	AND	COLLECTOR STREETS (1 OF 2)
_	729	CONCRETE PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL,
	AND	AND COLLECTOR STREETS (2 OF 2)
	751	STANDARD PIPE BEDDING FOR STORM SEWER
	752	FRAME AND LID FOR STORMWATER MANHOLES
	753	FRAME AND LID FOR 4' AND 5' I.D. STORMWATER MANHOLE
	755	CONFIGURATION OF CAST IRON CURB INLETS
	764	REINFORCED CONCRETE STORM WATER INLETS
	765	STORMWATER FRAMES
	766	STORM WATER GRATES
	767	CAST IRON CURB
	775	PRECAST CONCRETE STORMWATER MANHOLE
	793	RESIDENTIAL DRIVE ASPHALT OR CONCRETE NO CURB

APPROVED BY:

12/20/2024 ADVERTISEMENT DATE

KEITH M. MARQVARDT, P.E. PROJECT MANAGER

MARQUARDT ENGINEERING, PLLC

SHEET 1 OF 21

# CITY OF TULSA, OKLAHOMA CONSTRUCTION PLANS FOR NON-ARTERIAL STREET REHABILITATION

MAINTENANCE ZONE 3004 PROJECT NO. 2036N3004Z

ACCOUNT NO. 2036N9049Z.Streets.NArtRhb.4281.42813122-541106 PUBLIC WORKS DEPARTMENT TULSA, OKLAHOMA

### SYMBOL LEGEND <E EM - Electric Meter - Deciduous Tree E EB − Electric Box Electric Transformer - Coniferous Tree ₪ GM - Gas Meter - Fence Line (All Types) $\bigvee$ GV — Gas Valve $\bigvee$ GUY — Guy Anchor Overhead Electric Underground Electric N ICV - Irrigation Control Valve Underground Cable Television Junction BoxLight Pole Underground Fiber Optic Underground Telephone - Mailbox Natural Gas Line ø PP → Power Pole → SN → Sign ○ SSCO → Sanitary Sewer Cleanout ======= - Stormwater Line Sanitary Sewer Line SSMH — Sanitary Sewer Manhole SWMH — Storm Water Manhole - Bench Mark Survey Control Point Found - Sprinkler Head • SH Survey Control Point Set - Traffic Signal - Traffic Signal Box ☑ *TSJB* — Traffic Signal Junction Bos ©-. *TPED* — Telephone Pedestal u WM - Water Meter

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UTILITY

ΔΤ&Τ

PSO/AEF

COX COMMUNICATIONS

METROLINK TULSA

CITY OF TULSA UTILITY COORDINATOR

All construction to be in strict accordance with current City of Tulsa Public Works Department, standards and specifications

THIS PROJECT COMPLIES WITH ALL OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ) REQUIREMENTS.

IN ACCORDANCE WITH ODOT SECTION 105.14. THE CITY OF TULSA IS ANTICIPATING THAT THE SUCCESSFUL CONTRACTOR WILL UTILIZE THE APPROPRIATE MEANS AND METHODS TO ACCOMPLISH THE WORK DESCRIBED IN THE PLANS WITHOUT CAUSING COLLATERAL DAMAGE TO THE EXISTING INFRASTRUCTURE. THE PLANS ARE SET UP WITH THE EXPECTATION OF PERFORMING PATCHING AND CONCRETE WORK PRIOR TO MILLING OPERATIONS TO MINIMIZE CONSTRUCTION TRAFFIC LOADINGS TO REDUCED CAPACITY STREET SECTIONS. FURTHER, THE ANTICIPATED CONSTRUCTION PHASING WILL MINIMIZE THE TIME BETWEEN MILLING AND NEW ASPHALT PLACEMENT. LEAVING OPEN MILLED SECTIONS WILL BE AT THE CONTRACTOR'S RISK IN THE EVENT THAT LOCAL OR CONSTRUCTION TRAFFIC CAUSES DAMAGE TO PREVIOUSLY UNDAMAGED AREA. CURRENT CITY OF TULSA CONSTRUCTION BUDGETS DO NOT ALLOW FOR GROWTH OF THE PROJECT.

### PERMANENT BENCH MARK USED ON THIS PROJECT:

GPS 2016-28, 5/8" REBAR w/3" ALUMINUM CAP FLUSH, STAMPED 2016-28, SET IN CONCRETE POST " IN GROUND IN ISLAND AT E. 36th ST. N. AND N. WINSTON AVE.

OKLAHOMA STATE PLANE COORDINATES: NORTHING: 445611.64 EASTING: 2580595.97 NAVD 1988 ELEV. = 617.81

### VERTICAL CONTROL

NAVD 1988 SCALE FACTOR: 0.9999206903

### HORIZONTAL CONTROL

OKLAHOMA STATE PLANE COORDINATE SYSTEM NORTH ZONE 3501 NAD 1983 (2011)

### DESIGN DATA

V = 25 MPHK(MIN) SAG = 26 K(MIN) CREST = 12 2.75 LANE MILES

CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS (CURRENT) GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. RS APPROVED BY COT.

# R 13 F 66TH ST N 56TH ST 36TH ST N SEC 28 APACHE S MZ 3004 PINE ST UNPLATTED 31ST ST 36TH ST 41ST ST 51ST ST BLOCK 9 61ST ST R 13 E 71ST ST 81ST ST CREEK TURNPIKE 20 VICINITY MAPS LOCATION MAP



Marquardt Engineering, PLLC

CA. 6911 (PE) EXP. 6-30-2025 7020 S. YALE AVE., SUITE 225 TULSA, OKLAHOMA 74136 TEL: 918-704-8781 keith.marquardt@ymail.com



Note: Entire project is within the Corporate and City Limits of Tulsa, Oklahoma

### **ROADWAY QUANTITIES**

(SEE SHEET 4 FOR SUMMARY OF ROADWAY QUANTITIES)

	(SEE SHEET 4 FOR SUMMARY OF ROADWAY QUANTITIES)										
NO.	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE (11/14/2018)	UNIT	QUANTITY						
1	202(A)	UNCLASSIFIED EXCAVATION	E3,E4,R1	CY	536						
2	205(A)	TYPE A SALVAGED TOPSOIL	E3,E4,K1	CY	50						
3	220	SWPPP DOCUMENTATION AND MANAGEMENT	E6-E9,G1	LSUM	1						
4	230(A)	SOLID SLAB SODDING	E10,E11	SY	1,275						
5	303(A)	AGGREGATE BASE (TYPE A)	S1,S2	CY	514						
6	310(B)	SUBGRADE METHOD B	51,52	SY	1,606						
7	310(B) 325	SEPARATOR FABRIC	62	SY	1,766						
8	409	FABRIC REINFORCEMENT (Tensar GlasPave-25)	\$3 \$4								
9				SY	20,869						
	411(C)	SUPERPAYE, TYPE S6 (PG 64-22 OK) INSOLUBLE	S5,S6,S7,S8	TON	2,338						
10	411(E)	SUPERPAVE, TYPE S6 (PG 64-22 OK),(LEVELING COURSE)	S5,S6,S7,S8	TON	585						
11	412	COLD MILL PAVEMENT (2" DEEP)	\$9	SY	20,869						
12	609(B)	2'-2" COMBINED CURB AND GUTTER (6" MOUNTABLE)	S12,S13,S15,S16	LF	976						
13	610(A)	CONCRETE SIDEWALK (4" THICK)	S12,S13,S16,S17	SY	118						
14	610(B)	CONCRETE DRIVEWAY (6" THICK)(H.E.S.)	S12,S13,S16,S17	SY	132						
15	611(G)	INLET, CICI DESIGN NO. 2	D2,3,7,8,9,11,R2,X1	EA	8						
16	611(H)	ADDITIONAL DEPTH IN INLET DESIGN NO. 2	D10	VF	1						
17	612(A)	MANHOLE ADJUSTED TO GRADE	D1,D2,D6,R2,S12	EA	6						
18	613(A)	RCP, 15 INCH ROUND, COMPLETE IN PLACE	D12,D13,G1	LF	50						
19	619(A)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	E1,R1,R2,R3,R4,R5,R6	LSUM	1						
20	619(B)	REMOVAL OF EXISTING DRIVEWAY	R1,R2,R5	SY	132						
21	619(B)	REMOVAL OF EXISTING CURB AND GUTTER	R1,R2,R5	LF	976						
22	641	MOBILIZATION	G2	EA	1						
23	642	CONSTRUCTION STAKING LEVEL II	G3,G4	EA	1						
24	855(A)	TRAFFIC STRIPE (PLASTIC)(12" WIDE)	T3	LF	500						
25	855(A)	TRAFFIC STRIPE (PLASTIC)(24" WIDE)	Т3	LF	144						
26	880(B)	SIGNS 0.00 TO 6.25 SF	T2,T4	SD	1,500						
27	880(B)	SIGNS 6.26 TO 15.99 SF	T2,T4	SD	1,500						
28	880(B)	SIGNS 16.00 AND UP	T2,T5,T4	SD	2,250						
29	880(C)	BARRICADES (TYPE III)	T2,T4,T5	SD	750						
30	880(E)	TYPE "A" WARNING LIGHT	T4,T5	ŞD	3,750						
31	880(G)	TUBE CHANNELIZERS	T2,T4	SD	5,000						
32	880(I)	FLAGGER	Т6	FD	50						
33	COT 202	QUICK SET FLOWABLE FILL	D8,G1	CY	55						
34	COT 334	CONSTRUCTION AS-BUILTS		LSUM	1						
35	COT 335	CONTRACTOR QUALITY CONTROL		LSUM	1						
36	COT 608(A)	SHEET ALUMINUM SIGNS	T1	SF	132						
37	COT 608(B)	1 1/2" SQUARE TUBE POST		LF	15						
38		1 3/4" SQUARE TUBE POST		LF	204						
39	+	2" SQUARE TUBE POST		LF	51						
40	SPECIAL	TYPE I AC PATCH (NON-ARTERIAL)	S21	CY	15						
41	SPECIAL	TYPE I APC PATCH (NON-ARTERIAL)	S21,X2	CY	199						
42	SPECIAL	TYPE I PCC PATCH (NON-ARTERIAL)	S21,X2	CY	14						
43	SPECIAL	REMOVE, STORE AND RESET EXISTING SIGN	T1	EA	1						
44	SPECIAL	CURB RAMP	.,	EA	4						
45	SPECIAL	PROJECT SIGN (CITY OF TULSA)	Т7	EA	2						
46	SPECIAL	URBAN RIGHT-OF-WAY RESTORATION	E2,G5,G6,G9,G10	EA	1						
47	SPECIAL	OWNER ALLOWANCE	,_,_,_,,,,,,,,	EA	10,000						
	J		1		,						

ITEMS LISTED OR SHOWN ON DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS THAT ARE NOT INCLUDED AS A SEPARATE PAY ITEM QUANTITY SHALL BE CONSIDERED INCIDENTAL AND THE COST SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS. THE PRICE BID FOR ALL WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT, LABOR, INCIDENTALS, AND ALL OTHER REQUIRED ITEMS TO COMPLETE THE WORK AS SHOWN ON PLANS AND SPECIFICATIONS.

### **PAY ITEM NOTES (11/14/2018)**

- D1. THIS ITEM SHALL INCLUDE THE COST OF NEW MANHOLE FRAME AND COVER PER CITY OF TULSA STD NOS.752, 753, 754 761, 762, 769A, 769B AND 775.
- THE TOTAL COST FOR RUBBERIZED ASPHALT AND/OR SILICONE AT MANHOLES, VALVE BOXES, INLETS, AND INLET APRONS, SHALL BE INCLUDED.
- D3. NO MASONRY STRUCTURES SHALL BE
- D4.-D5. NOT USED
- ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 E. 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.
- INCLUDES THE COST REQUIRED TO MAKE CONNECTION AND REMOVAL OF EXISTING INLETS. THE COST OF PC CONCRETE CURB AND GUTTER THROUGH THE INLET, 5' EACH SIDE OF THE INLET. AND THE PC CONCRETE INLET APRON SHALL BE INCLUDED. GRATE AND FLOWLINE ELEVATIONS SHALL MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED IN THE PLANS.
- QUICKSET FLOWABLE FILL SHALL BE USED TO BACKFILL AROUND STREET CURB INLETS AND REINFORCED CONCRETE PIPE, AS NEEDED, AT THE DIRECTION OF THE
- ALL INLETS, COMPLETE IN PLACE, SHALL BE CAST IN PLACE CONCRETE OR PRECAST CONCRETE. THIS PAY ITEM INCLUDES ANY INLET FRAME(S), GRATE(S), HOOD(S) AND CONCRETE REQUIRED FOR COMPLETE. INSTALLATION OF STRUCTURE PER THE CONSTRUCTION DOCUMENTS.
- D10. ADDITIONAL DEPTH QUANTITIES SHALL BE MEASURED AND PAID FOR ALL INLETS EXCEDING STANDARD DEPTH. STANDARD DEPTHS ARE AS FOLLOWS:
- CAST IRON CURB INLET: 3.71 VF MEASURED FROM CENTER ELEVATION OF LOWEST CAST IRON CURB TO FLOWLINE OF OUTLET PIPE
- B) RECESSED CURB INLET: 3.00 VF, MEASURED FROM TOP OF SLAB TO FLOWLINE OF OUTLET PIPE.

  C) STANDARD DROP INLET: SEE STANDARD
- DETAILS 770, 771, 772 AND 773 VARIES BASED ON PIPE SIZE, MEASURED FROM OWEST FLEVATION OF INFLOW APRON TO FLOWLINE OF OUTLET PIPE.
- CAST IRON CURB INLET CONFIGURATION NAMING CONVENTION PROVIDED IN COT STANDARD NO. 755. SEPARATE DETAILS SHALL BE REFRENCED OR PROVIDED IN THE PLANS FOR NON-CITY-STANDARD INLETS.

STANDARD NAMING: CICI DES G(T) [W/AMH]

- G: NUMBER OF GRATES.
- T: LETTER(S) CORRESPONDING TO ARRANGEMENT OF CAST IRON HOODS TO BE INSTALLED UPSTREAM OF GRATES.
- W/AMH: IF SHOWN, INLET TO BE CONSTRUCTED WITH ATTACHED ACCESS MANHOLE.
- D12. REINFORCED CONCRETE PIPE TO BE CLASS
  III. ALL REINFORCED CONCRETE PIPE AND
  MANHOLES TO BE SUPPLIED WITH AN OMNI-FLEX JOINT GASKET OR APPROVED EQUAL. MASTIC JOINT SEALANT SHALL NOT
- D13. THIS PAY ITEM SHALL BE COMPLETE IN THIS PAY ITEM SHALL BE COMPLETE IN PLACE AND SHALL INCLUDE ALL PIPE, STANDARD BEDDING MATERIAL AND TRENCH EXCAVATION, JOINT GASKETS AND ALL OTHER INCIDENTALS. NO ADDITIONAL COST WILL BE MADE. PRIOR TO ACCEPTANCE, INTERIOR OF PIPE SHALL BE INSPECTED FOR DEFECTS USING SELF-PROPELLED. MOBILE CLOSED-CIRCUIT CAMERA SYSTEM

D14-D15, NOT USED.

- ALL COSTS FOR REMOVING TREES, SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPARATE PAY ITEM ARE INCLUDED IN THE
- E2. ALL EXISTING DRAINAGE STRUCTURES SHALL ALL EXISTING UNANIAGE. STRUCTURES SHALL BE CLEANED AND CLEARED OF ALL SEDIMENTATION AND DEBRIS TO THE RIGHT OF WAY. COST OF CLEARING SHALL BE INCLUDED IN THE PRICE BID.
- 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 VERIES ANY ADDITIONAL QUANTITIES

- E4. UNCLASSIFIED EXCAVATION INCLUDES REMOVAL OF AGGREGATE BASE AND MODIFIED SUBGRADE UNDER EXISTING PAVEMENT TO BE REPAIRED
- NOT USED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE CONSTRUCTION SITE. STORM WATER E6. CONSTRUCTION SITE. STORM WATER
  PONDING ON THE CONSTRUCTION SITE THAT
  IS THE RESULT OF CONSTRUCTION WILL NOT
  BE ALLOWED. ALL COST ASSOCIATED WITH
  STORM WATER MANAGEMENT, AS WELL AS
  REMOVAL OF ALL SILT AND DEBRIS FROM
  ALL DRAINAGE STRUCTURES, STORM SEWER
  PIPES AND APPURTENANCES WITHIN THE
  PROJECT LIMITS AT END OF PROJECT,
  SHALL BE INCLUDED IN THE UNIT PRICE BID
  FOR THIS ITEM.
- EROSION PROTECTION SHALL BE PLACED AS
- A) AROUND INLETS TO PREVENT INFLOW OF ERODED MATERIAL INTO STORM SEWER
- 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

ALL COST FOR ITEMS A-D ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR THIS ITEM.

- PRICE BID SHALL INCLUDE MAINTENANCE. SEDIMENT REMOVAL DISPOSAL AND REMOVAL OF FILTERS AT PROJECT
- E9. INCLUDES 24 TYPE [1-C] FILTERS.
- ESTIMATED QUANTITY IS BASED ON SODDING E10. OF ALL DISTURBED AREAS OUTSIDE TH FINAL PAVING LIMITS AND WITHIN THE FINAL GRADING LIMITS AS INDICATED BY THE PLANS (EXCLUDING SURFACES OF STRUCTURES, FIXTURES AND 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 RESOLDED TO THE SATISFACTION
  OF THE EXIGNISED AT THE CONTRACTIONS OF THE ENGINEER AT THE CONTRACTOR'S
- COST OF WATERING AND FERTILIZING SHALL E11. 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 ODDT STANDARD. SPECIFICATIONS. WATERING SHALL BE
  APPLIED AS NECESSARY UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE WORK IS ACCEPTED AS COMPLETE.
- LOCATIONS TO BE DETERMINED IN THE FIELD AND WORK TO BE PERFORMED AT THE DIRECTION OF THE FIELD ENGINEER. QUANTITY IS ESTIMATED AND MAY BE OMITTED IN ITS ENTIRETY. G1.
- 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
- CONSTRUCTION STAKING SHALL INCLUDE SURVEYING AND THE FURNISHING, PLACING, AND MAINTAINING OF THE CONSTRUCTION LAYOUT STAKES NECESSARY FOR THE G3. PROPER COMPLETION AND INSPECTION OF THE ENTIRE PROJECT.
- G4. THE COST TO REPLACE REMOVED OR 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.

- G5. CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS DAMAGED OR REQUIRING RELOCATION DURING THE CONSTRUCTION OF THIS PROJECT TO THE SATISFACTION OF THE PROPERTY OWNER AND CITY ARBORIST. COST SHALL BE INCLUDED IN THE PRICE BID.
- ALL HOUSE NUMBERS SHALL BE REPLACED/
  REESTABLISHED THROUGHOUT PROJECT
  LIMITS. COST TO BE INCLUDED IN URBAN
  RIGHT OF WAY RESTORATION. CONTRACTOR
  SHALL REESTABLISH DRAINS, ROOF DRAINS
  AND OTHER DRAINAGE THROUGH THE
  CURBS IN ACCORDANCE WITH CITY OF
  TULSA STANDARD 758. NO NEW CURB
  OUTLETS SHALL BE CONSTRUCTED WITHOUT
  APPROVAL OF THE FROINFER APPROVAL OF THE ENGINEER.
- NOT USED
- NOT USED
- CONTRACTOR SHALL COORDINATE WITH HOMEOWNERS TO RESET ALL PAVERS, LANDSCAPE STONE, PRIVATE SIDEWALKS AND FENCES THAT ARE DISTURBED DURING CONSTRUCTION OPERATIONS. ALL G9. MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR RESETTING OF SUCH ITEMS IS TO BE INCLUDED IN PRICE BID FOR URBAN RIGHT OF WAY RESTORATION.
- PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION.
- PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A
- ALL SAW CUTTING AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE R2. ADJUSTED, REMOVED, REPAIRED, OR
- PAY ITEM INCLUDES REMOVAL OF ALL STRUCTURES AND OBSTRUCTIONS WITHIN PROJECT LIMITS NOT SPECIFIED BY OTHER
- R4. INCLUDES SAWING NOT INCLUDED IN OTHER
- ITEMS TO BE REMOVED MAY OR MAY NOT BE PRESENT IN ANY SPECIFIED CONDITION.
- SHALL INCLUDE ALL COSTS ASSOCIATED WITH PLUGGING/ PATCHING HOLES IN EXISTING STRUCTURES TO REMAIN. TYPE A AGGREGATE BASE WAS ESTIMATED
- TYPE A AGGREGATE BASE WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 90% OF THE PATCHING, QUICK SET FLOWABLE FILL WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 10% OF THE PATCHING, ACTUAL QUANTITIES TO BE DETERMINED BY THE ENGINEER.
- INCLUDES COMPACTION OF AGGREGATE TO 98% AASHTO T180 MODIFIED PROCTOR.
- SEPARATOR FABRIC SHALL BE USED AT ALL PAVEMENT PATCHES AND RECONSTRUCTION SECTIONS. THE SEPARATOR FABRIC SHALL BE CUT AND OVERLAPPED A MINIMUM OF 2 FT AT ALL EDGES OF THE REPAIR.
- FABRIC REINFORCEMENT SHALL BE USED ON OVERLAY AREAS. THE COST OF BITUMINOUS BINDER FOR FABRIC REINFORCEMENT SHALL BE INCLUDED IN THE UNIT COST OF THIS PAY ITEM. THE BITUMINOUS BINDER SHALL MEET ODOT STANDARD SPECIFICATIONS AND THE RECOMMENDATIONS OF THE FABRIC REINFORCEMENT MANUFACTURER
- THE COST OF TACK COAT, EDGE JOINT SEAL MATERIAL AND SCREENINGS FOR BLOTTING, AND ALL LABOR ASSOCIATED WITH THESE ITEMS, SHALL BE INCLUDED IN ASPHALT CONCRETE. S5.
- ESTIMATED AT 112 LBS PER SQ YD PER 1 INCH THICK.
- ODOT PAY FACTOR FOR AVERAGE LOT DENSITY SHALL NOT BE USED FOR THIS PROJECT. FAILURE TO REACH AVERAGE LOT DENSITY OF
- A HIGHER GRADE OF ASPHALT BINDER THAN IS INDICATED ON THE PLANS MAY BE USED, BUT AT NO ADDITIONAL COST TO
- NOTE S8 TABLE BINDER MESALs ADT<sup>1</sup> NOTES GRADE<sup>2</sup> USE WHEN MORE THAN 4-6 INCHES BELOW THE PG 64-22 OI SURFACE. ALSO USE FOR SHOULDERS, DRIVEWAYS BELOW PCC, AND TEMPORARY CONSTRUCTION USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES >= 10,000 USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES PG 76-28 OK CONTACT ODOT MATERIALS DIVISION FOR PG 76-28 F \_\_\_ RECOMMENDED USE USE ADT ONLY WHEN ESAL COMPUTATIONAL DATA IS NOT AVAILABLE PG 70-28 OK OR PG 76-28 OK MAY BE DESIRABLE IN HIGH VOLUME AREAS WHERE SLOW.

STANDING, OR TURNING TRAFFIC OCCURS, SUCH AS URBAN INTERSECTIONS OR OFF-RAMPS. OFF RAMPS SHOULD AT LEAST USE THE SAME BINDER AS THE MAINLINE.

- THIS ITEM INCLUDES ALL COSTS
  ASSOCIATED WITH COLD MILLING AND TO PROVIDE BUTT JOINTS AS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR COLD MILLING BEYOND THE AVERAGE DEPTH SHOWN ON THE TYPICAL SECTIONS.
- S10. NOT USED
- NOT USED
- THE USE OF FLY-ASH IN CONCRETE IS
- S13. INCLUDES ALL COST OF SAWED JOINTS AND SEALING OF ALL JOINTS INCLUDING LONGITUDINAL JOINTS.
- S14. NOT USED
- S15. THIS ITEM SHALL BE MEASURED AS THE ACTUAL AMOUNT OF CURB AND/OR GUTTER INSTALLED. NO PAYMENT WILL BE MADE FOR CURB AND/OR GUTTER THROUGH DRIVEWAYS AND INLETS.
- CURB, GUTTER, AND/OR SIDEWALK ASSOCIATED WITH THE DRIVEWAY AND THROUGH THE DRIVEWAY IS INCLUDED IN THE COST OF THE DRIVEWAY.
- S17. ONE SIDEWALK PANEL ON EACH SIDE OF ORIVEWAYS SHALL BE A MINIMUM OF 6"
  THICK OR MATCH EXISTING DRIVEWAY
  THICKNESS, WHICHEVER IS GREATER. NO
  ADDITIONAL PAYMENT SHALL BE MADE FOR THE COST OF THE THICKENED SIDEWALK THROUGH THIS AREA.
- S18. NOT LISED
- S19. NOT USED S20. NOT USED
- S21. THIS PAY ITEM INCLUDES THE FOLLOWING:
  - A. SAW CUTTING
- B. REMOVAL OF EXISTING CONCRETE AND /OR
- ASPHALTIC CONCRETE ROADWAY (CY)
  TYPE S3 ASPHALTIC CONCRETE OR PC
  CONCRETE COMPLETE AND IN PLACE PER
- D. SEALING OF EDGES AND TACK COAT
- DOES NOT INCLUDE THE FOLLOWING
- A. UNCLASSIFIED EXCAVATION
  B. SUBGRADE METHOD B (SY)
  C. SEPARATOR FABRIC (SY)
- AGGREGATE BASE (TYPE A)
  ASPHALT CONCRETE LEVELING OR
- REMOVE AC PAVEMENT ON CONCRETE DRIVEWAY APRONS AND GUTTERS DURING EDGE MILLING AND COLD MILLING OPERATIONS.
- S23. REPLACE AC IN DRIVEWAY GUTTER, AS NEEDED, FOR POSITIVE STORMWATER DRAINAGE AND SMOOTH DRIVEWAY
- ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
- REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D T2. 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON SHEE ING. REFLECTORIZED SHEE ING OF DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.

- EXTRUDED-APPLIED THERMOPLASTIC (USE ON ASPHALT PAVEMENT AND CONCRETE ON ASPHALT PAVEMENT AND CONCRETE PAVEMENT). THERMOPLASTIC PAVEMENT MARKING SHALL ONLY BE APPLIED WHEN THE SURFACE TEMPERATURE EXCEEDS 55° FOR ALL OF THE SIX HOURS PRIOR TO INSTALLATION AND MAXIMUM WIND GUSTS ARE 15 MPH AT THE TIME OF APPLICATION. PRICE BID TO INCLUDE FLEX TABS OR LIKE KIND FOR POST CONSTRUCTION LANE MARKINGS/SEPARATION. MECHANICALLY TAPE") WILL NOT BE ACCEPTED.
- PAYMENT SHALL BE MADE ON A SIGN-DAY PAYMENT SHALL BE MADE ON A SIGN—DAY BASIS ONLY FOR TRAFFIC CONTROL DEVICES THAT ARE PROPERLY INSTALLED AND IN GOOD WORKING ORDER. COSTS FOR DELIVERY, INSTALLATION, RELOCATION, MAINTENANCE REMOVAL AND REPLACEMENT, AS NEEDED AT THE DISCRETION OF THE ENGINEER, INCLUDED IN UNIT PRICE BID.
- IF WARNING LIGHTS ARE TO BE USED ON IF WAKNING LIGHTS ARE 10 BE USED ON TRAFFIC CONTROL DEVICES, TYPE "A" LIGHTS SHALL ONLY BE USED ON DEVICES WARNING OF UNEXPECTED HAZARDS, AND SHALL NOT BE USED FOR DELINEATION OF THE TRAVELED WAY. ONLY TYPE "C" WARNING LIGHTS SHALL BE USED FOR DELINEATION OF THE TRAVELED WAY, AND DEDIT "A" UNITED THE TRAVELED WAY, AND TYPE "C" LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE
- THE PAY ITEM FOR FLAGGER SHALL BE PAID FOR ON A FLAG DAY (F.D.) BASIS. ONE F.D. IS ONE COMPLETE WORKDAY PERFORMED BY THE CONTRACTOR AS SET FORTH IN THE CONTRACT DOCUMENTS AND
- PRICE BID FOR THIS ITEM INCLUDES INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF PROJECT SIGN.
- CONTRACTOR SHALL FIELD VERIFY TOP OF GRATE, TOP OF RIM, FLOWLINE, AND PIPE DIMENSIONS PRIOR TO ORDERING ANY PRECAST CONCRETE STRUCTURE FOR USE
- QUANTITY INCLUDES 5% OF THE MILLED SURFACE AREA FOR PATCHING EXISTING PC CONCRETE PAVEMENT DEFECTS VISIBLE AFTER COLD MILLING OPERATIONS. THIS QUANTITY IS IN ADDITION TO THE PATCHING X2. QUANTITIES CALLED OUT ON THE ASSOCIATED PLAN SHEETS.





ROADWAY PAY QUANTITIES AND NOTES PROJECT NO. 2036N3004Z

NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 3004

CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY MARQUARDT ENGINEERING, PLLC

REVISION DRAWN BY: 10/23 LAN SCALE GMO ESIGNED BY 10/23 N/A URVEY BY: ROJ. MGR. OFILE SCA **D** 12/24 EAD ENGR. 12/24 ORIZONTA FIELD MGR. Tow 12/24 ERTICAL 15084 HAS 1-24 DESIGN MANAGER DATE: 12/5/2024 DRAWING:

### **GENERAL CONSTRUCTION NOTES: (9/12/2016)**

- 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. 43 419 500 BY 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.
- 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; AT&T, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL 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, 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, 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 EDITION, 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 PRIVATE SIGNS, I.E. (ALERT NEIGHBORS, NEIGHBORHOOD MARQUE SIGNS, ETC.), SHALL BE HANDLED IN A MANNER SO AS NOT TO DAMAGE THE SIGN. ALL PRIVATE SIGNS REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED BY THE CONTRACTOR.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS LISTED IN THE SIGNAGE SCHEDULE FOR THE 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. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION AND DISTRIBUTION OF A WRITTEN NOTICE TO RESIDENTS 48 HOURS PRIOR TO BEGINNING PAVEMENT REMOVAL AND MILLING AND OVERLAY OPERATIONS.
- 14. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
- 15. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
- 16. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED 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.
- 17. 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.
- 18. 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.
- 19. 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.
- 20. 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.
- 21. 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.
- 22. THE PROJECT SHALL BE CONSTRUCTED WITH CONTINUOUS FLOW OF MATERIAL SUPPLIED TO THE PROJECT SUCH THAT THE LAYDOWN MACHINE WILL REMAIN IN MOTION. ANY DELAY IN FORWARD PROGRESSION OF THE LAYDOWN MACHINE MAY REQUIRE A TRANSVERSE JOINT AS DIRECTED BY THE ENGINEER.
- 23. NO FLY ASH IS ALLOWED TO BE USED ON THIS PROJECT
- 24. PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.

### GENERAL CONSTRUCTION NOTES CONT.:

- 25. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
- 26. MASONRY STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE STREET RIGHT-OF-WAY.
- ALL CONCRETE CURB AND GUTTERS SHALL BE MONOLITHIC POURS. DOWELED-ON CURBS WILL NOT BE ALLOWED.
- 28. NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES.
- 29. HANDICAP RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS.
- 30. 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 HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
- 31. ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 E. 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.
- 32. THE SIGN PLACEMENT STATIONING AND LOCATIONS SHOWN ON THE PLAN SHEETS AND SUMMARY SHEETS ARE APPROXIMATE. EXACT STATIONING AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR SO THAT THE SIGN IS INSTALLED IN ACCORDANCE WITH CITY OF TULSA STANDARDS, CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES IN ORDER TO PROVIDE OPTIMUM VISIBILITY TO THE ONCOMING/APPROACHING MOTORIST. IF A PROPOSED LOCATION CONFLICTS WITH OTHER SIGNS, UTILITIES, OR OTHER ROADWAY FEATURES, THE ENGINEER SHALL BE NOTHERD
- 33. POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE. EXACT LENGTHS SHALL BE DETERMINED BY A FIELD SURVEY CONDUCTED BY THE CONTRACTOR.
- 34. ALL ASPHALT STREETS THAT ARE TO BE RECONSTRUCTED SHALL BE LEFT WITH A DRIVABLE SURFACE AT ALL TIMES. THE CONTRACTOR WILL NOT BE ALLOWED TO MILL OFF ALL THE ASPHALT BEFORE EXCAVATION BEGINS.
- 35. THE CONTRACTOR SHALL REPLACE ANY SECTION CORNERS OR OTHER PERMANENT RIGHT OF WAY MARKERS REMOVED OR DISTURBED AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT. REPLACEMENT OF SECTION CORNERS OR ANY OTHER MONUMENTS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR AUTHORIZED TO PERFORM WORK IN THE STATE OF OKLAHOMA.
- 36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
- 37. STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
- 38. THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
- 39. PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.
- 40. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS, AND CROSSWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES, AND THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, PUBLISHED ON JULY 26, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK, WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 41. ALL TRENCH WIDTHS AND BEDDING MATERIAL SHALL BE AS SHOWN ON COT STANDARD PIPE BEDDING DETAIL, STANDARD NO. 751. SPECIFIED TRENCH WIDTHS SHALL BE MAINTAINED FULL DEPTH FROM THE FLOWLINE TO THE GRADING TEMPLATE. THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED.
- 42. THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
- 43. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS WITHIN THE CITY OF TULSA REGULATORY FLOOD PLAIN.
- 44. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING NEIGHBORHOOD, MTTA, ALERT NEIGHBORS, ETC. TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT
- 45. ITEMS LISTED OR SHOWN ON DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS THAT ARE NOT INCLUDED AS A SEPARATE PAY ITEM QUANTITY SHALL BE CONSIDERED INCIDENTAL AND THE COST SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS. THE PRICE BID FOR ALL WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT, LABOR, INCIDENTALS, AND ALL OTHER REQUIRED ITEMS TO COMPLETE THE WORK AS SHOWN ON PLANS AND SPECIFICATIONS.





### GENERAL CONSTRUCTION NOTES

PROJECT NO. 2036N3004Z

NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 3004

# CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT

MARQUARDT ENGINEERING, PLLC

REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	GMO	10/23	APPROVED:
			N/A	DESIGNED BY:	КММ	10/23	
			11/7	SURVEY BY:			
-			PROFILE SCALE	PROJ. MGR.	£	12/24	
			HORIZONTAL:	LEAD ENGR.	<b>(3)</b>	12/24	
			N/A	FIELD MGR.	Pun	12/24	
			VERTICAL:	RECOMMENDED:	Sele .		Tosel
			N/A	DESIGN MANA	GER	2.24	CITY ENGINEER
			FILE:	DRAWN	IG:		DATE: 12/5/2024
			ATLAS PAGE N	0:			SHEET 3 OF 21 SHEETS

	SUMMARY OF ROADWAY QUANTITIES											
ITEM NO.	SPEC. NO.	DESCRIPTION	UNIT	QUANTITY	N. LOUISVILLE AVE. SHEET 12	N. MARION AVE. SHEET 13	N. NEW HAVEN AVE. SHEET 14	N. OSWEGO AVE SHEETS 15-16	E. VIRGIN PL. SHEETS 17-18	E. WOODROW ST. SHEET 19	N. VANDALIA AVE SHEET 20	N. VANDALIA PL. SHEET 20
1	202(A)	UNCLASSIFIED EXCAVATION	CY	536	55	47	67	66	129	144	15	13
2	205(A)	TYPE A SALVAGED TOPSOIL	CY	50	-	-	•	-	-	-	-	-
3	220	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1	-	• .	•	-	-	-	-	- '
4	230(A)	SOLID SLAB SODDING	SY	1,275	104	149	124	227	228	283	75	85
5	303(A)	AGGREGATE BASE (TYPE A)	CY	514	53	45	61	70	125	134	13	13
6	310(B)	SUBGRADE METHOD B	SY	1,606	164	140	201	198	387	433	44	39
7	325	SEPARATOR FABRIC	SY	1,766	180	154	221	218	426	476	48	43
8	409	FABRIC REINFORCEMENT (Tensar GlasPave-25)	SY	20,869	2,855	1,985	1,894	3,489	5,327	3,094	1,218	1,007
9	411(C)	SUPERPAVE, TYPE S4 (PG 64-22 OK) INSOLUBLE	TON	2,338	320	222	212	391	597	347	136	113
10	411(E)	SUPERPAVE, TYPE S6 (PG 64-22 OK),(LEVELING COURSE)	TON	585	80	56	53	98	149	87	34	28
11	412	COLD MILL PAVEMENT (2" DEEP)	SY	20,869	2,855	1,985	1,894	3,489	5,327	3,094	1,218	1,007
12	609(B)	2'-2" COMBINED CURB AND GUTTER (6" MOUNTABLE)	LF	976	57	147	98	154	155	365	0	0
13	610(A)	CONCRETE SIDEWALK (4" THICK)	SY	118	0	0	16	30	13	59	00	0
14	610(B)	CONCRETE DRIVEWAY (6" THICK)(H.E.S.)	SY	132	21	, 0	0	51	44	9	0	7
15	611(G)	INLET, CICI DESIGN NO. 2	EA <sup>c</sup>	8	1	0	2	0	0	5	0	0
16	611(H)	ADDITIONAL DEPTH IN INLET DESIGN NO. 2	VF	1	- 0	0	0	0	0	0.64	0	0
17	612(A)	MANHOLE ADJUSTED TO GRADE	EA	6	0	0	1	0	2	3	0	0
18	613(A)	RCP, 15 INCH ROUND, COMPLETE IN PLACE	LF	. 50	5	0	15	0	0	30	0	0
19	619(A)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LSUM	. 1	-	-	·	-	-	-	-	-
20	619(B)	REMOVAL OF EXISTING DRIVEWAY	SY	132	21	0	0	51	44	9	0	7
21	619(B)	REMOVAL OF EXISTING CURB AND GUTTER	LF	976	57	147	98	154	155	365	0	0
22	641	MOBILIZATION	EA	1	-	-	-	-	-	-	-	- \
23	642	CONSTRUCTION STAKING LEVEL II	EA	1	-	-	-	-	-	-	-	-
24	855(A)	TRAFFIC STRIPE (PLASTIC)(12" WIDE)	LF	500	0	. 0	0	250	250	0	0	0
25	855(A)	TRAFFIC STRIPE (PLASTIC)(24" WIDE)	LF	144	0	0	48	24	24	48	0	0
26	880(B)	SIGNS 0.00 TO 6.25 SF	SD	1,500	-	-	-	-	-	-	-	-
27	880(B)	SIGNS 6.26 TO 15.99 SF	SD	1,500	-	-	-	-	-	-	-	-
28	880(B)	SIGNS 16.00 AND UP	SD	2,250	-		-	-	-	-	-	-
29	880(C)	BARRICADES (TYPE III)	SD	750	-			-	-	-	-	-
30	880(E)	TYPE "A" WARNING LIGHT	SD	3,750	-	-	-	-	-	-	_	-
31	880(G)	TUBE CHANNELIZERS	SD	5,000	-	-	-	-	_	-	-	-
32	880(I)	FLAGGER	FD	50	-	-	-	-	-	-	-	
33	COT 202	QUICK SET FLOWABLE FILL	CY	55	7	3	10	5	8	20	1	1
34	COT 334	CONSTRUCTION AS-BUILTS	LSUM	1	-		. ′ -		-	-	-	-
35	COT 335	CONTRACTOR QUALITY CONTROL	LSUM	1	-	-	-	-	-	-	-	-
36		SHEET ALUMINUM SIGNS	SF	132	30	0	11.50	14	45	31.40	0	0
37	COT 608(B)	1 1/2" SQUARE TUBE POST	LF	15	5	0	3	0	3	5	0	0
38	<u>`</u>	1 3/4" SQUARE TUBE POST	LF	204	48	0	24	24	60	48	0	0
39	<u> </u>	2" SQUARE TUBE POST	LF	51	12	0	6	6	15	12	0	0
40	SPECIAL	TYPE I AC PATCH (NON-ARTERIAL)	CY	15	0	0	0	0	0	0	8	7
41		TYPE I APC PATCH (NON-ARTERIAL)	CY	199	26	16	30	26	46	55	0	Ö
42	SPECIAL	TYPE I PCC PATCH (NON-ARTERIAL)	CY	14	0	0	0	0	14	0	0	0
43	SPECIAL	REMOVE, STORE AND RESET EXISTING SIGN	EA	1	1	0	0	0	0	0	0	0
44		CURB RAMP	EA	4	0	0	2	0	0	2	0	0
45		PROJECT SIGN (CITY OF TULSA)	EA	2	-	-	-	-	-	-	-	-
46		URBAN RIGHT-OF-WAY RESTORATION	EA	1	-	-	-	-	-	-	-	-
47		OWNER ALLOWANCE	EA	10,000		-	-	-	-	-		
	O LONL	OTTITLICALLOVALIOL		10,000								





## ROADWAY SUMMARIES

PROJECT NO. 2036N3004Z

NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 3004

# CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT

PLANS & ESTIMATES PREPARED BY:

	MARQL	JARDT	ENGINEE	RING, PLLC
	7020 S. YALE AVE.	, SUITE 225	TULSA, OK. 74136	918-704-8781
_				

			7020 S. YALE	AVE., SUITE 22	5 TULS	A, OK. 7	4136 918-704-8781
REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	GMO	10/23	APPROVED:
			N/A	DESIGNED BY:	КММ	10/23	
			N/A	SURVEY BY:			1
			PROFILE SCALE		RF	12/24	
			HORIZONTAL:	LEAD ENGR.	B	12/24	
			N/A	FIFLD MGR	7411	12/29	
			VERTICAL:	RECOMMENDED:	LAS 1	2.2.0	Lose
			N/A	DESIGN MANA	GER		CITY ENGINEER
			FILE:	FILE: DRAWING:			DATE: 12/5/2024
			ATLAS PAGE N	O: XXX			SHEET 4 OF 21 SHEETS

SIGN STATION NO. LOCATION		TYPE OF SIGN	SHEET ALUMINUM SIGN 608(A)	SIGN DIMENSIONS	1 1/2" SQUARE TUBE POST 608(B)	1 3/4" SQUARE TUBE POST 608(C)	2" SQUARE TUBE POST 608(D)	REMOVE STORE & RESET SPECIAL
			SF	IN	LF	LF	LF	EA
1	2+18.87, 21.69' RT	COT 608, N LOUISVILLE AV COT 608, E VIRGIN PL	3.00	6" x 36" 6" x 24"	1.50	12	3	
		ALERT NEIGHBORS	N/A	N/A				1
2	4+94.86, 22.63' RT	COT 608, N LOUISVILLE AV COT 608, E WOODROW ST	3.00 3.00	6" x 36" 6" x 36"	1.50	12	3	
3	11+96.79, 17.5' RT	R1-1, STOP R1-4 ALL WAY	6.25 0.75	30" x 30" 18" x 6"		12	3	
4	11+99.94, 21.24' LT	R1-1, STOP R1-4 ALL WAY COT 608, N LOUISVILLE AV COT 608, E XYLER ST	6.25 0.75 3.00 2.00	30" x 30" 18" x 6" 6" x 36" 6" x 24"	1.50	12	3	
4	24+24.03, 21.0' RT	COT 608, N NEW HAVEN AV COT 608, N OSWEGO AV	3.50 2.50	6" x 42" 6" x 30"	1.50	12	3	
5	30+60.46, 18.13' LT	COT 608, N NEW HAVEN AV COT 608, E XYLER ST	3.50 2.00	6" x 42" 6" x 24"	1.50	12	3	
6	34+74.41, 26.55' RT	R1-1, STOP R1-4 ALL WAY	6.25 0.75	30" x 30" - 18" x 6"		12	3	,
7	34+84.88, 16.26' LT	R1-1, STOP R1-4, ALL WAY	6.25 0.75	30" x 30" 18" x 6"		12	3	
8	48+16.08. 17.71' LT	W14-1, DEAD END	6.25	30" x 30"		12	3	
9	59+01.38, 16.78' RT	S1-1, SCHOOL ADVANCE CROSSING W16-9P, AHEAD	6.25 2.00	30" x 30" 24" x 12"		12	3	
10	63+29.40, 17.05' RT	R1-1, STOP R1-4, ALL WAY	6.25 0.75	30" x 30" 18" x 6"		12	3	
11	63+95.51, 16.87 LT	R1-1, STOP R1-4, ALL WAY COT 608, N OSWEGO AV COT 608, E VIRGIN PL	6.25 0.75 2.50 2.00	30" x 30" 18" x 6" 6" x 30" 6" x 24"	1.5	12	3	
12	67+66.70, 16.75' RT	R1-1, STOP R1-4, ALL WAY COT 608, N PITTSBURG AV COT 608, E VIRGIN PL	6.25 0.75 3.00 2.00	30" x 30" 18" x 6" 6" x 36" 6" x 24"	1.5	12	3	
13	76+00.00, 15.50' RT	W11-2, PEDESTRIAN TRAFFIC W16-9P, AHEAD	6.25 2.00	30" x 30" 24" x 12"		12	3	
14	77+17.57, 19.80' RT	COT 608, N OSWEGO AV COT 608, E WOODROW ST R-2, YIELD	2.50 3.00 3.90	6" x 30" 6" x 36" 36" x 36" x 36"	1.50	12	3	
15	77+57.81, 1 <b>5</b> .23' RT	W11-2, PEDESTRIAN TRAFFIC W16-9P, AHEAD	6.25 2.00	30" x 30" 24" x 12"	1.50	12	3	
16	80+20.15, 19.62' LT	COT 608, N OSWEGO AV COT 608, E WOODROW PL	2.50 3.00	6" x 30" 6" x 36"	1.50	12	3	
	·	PROJECT TOTALS :	132		15	204	51	1

	SUMN	IARY C	OF DRI	<b>VEWAY</b>	S		
STREET	ADDRESS	WIDTH	DEPTH	RADIUS	TYPE A AGGREGATE BASE	6" CONCRETE DRIVEWAY (H.E.S.)	
STATION, OFFSET		FT.	FT	FT.	303 (A)	610 (B)	
N. LOUISVILLE AVE					C.Y.	S.Y.	
10+61.43, RT	2243	16	10	5	3.48	20.90	
10+01.45, K1	2243	10	10	5	3.40	20.90	
				SUBTOTAL	3.48	20.90	
N. MARION AVE							
16+22.27, RT	3805	12	6	5	1.59	9.56	
				SUBTOTAL	1.59	9.56	
N. NEW HAVEN AVE							
		L		SUBTOTAL	0.00	0.00	
N. OSWEGO AVE							
40+80.24, RT	2207	23	6	5	2.62	15.73	
43+12.85, LT	2228	17	11	5	3.76	22.54	
44+08.16, LT	3920	17	6	5	2.11	12.65	
			L				
- \#DO!\ D!				SUBTOTAL	8.49	50.92	
E. VIRGIN PL							
50+12.89, LT	3511	8	5	5	1.03	6.16	
59+13.99, RT	3736	8	6 -	5	1.16	6.94	
65+35.45, LT	4011	15	9	0	2.55	15.28	
67+23.23, LT	4027	15	9	0	2.57	15.39	
	1			SUBTOTAL	7.31	43.77	
E. WOODROW ST							
E. WOODROW PL	T			SUBTOTAL	0.00	0.00	
	4500					2.07	
91+54.29, RT	1503	10	5	5 SUBTOTAL	1.11 1.11	6.67 <b>6.67</b>	
			PROJEC		22	132	

SUMMARY OF PROPOSED DRAINAGE STRUCTURES								
DESCRIPTION	LOCATION		LOCATION	TOP OF GRATE ELEVATION	FLOWLINE ELEVATION	DEPTH	RCP FOR* CONNECTION 15"	
	NORTHING	EASTING	STATION, OFFSET	FT	FT	FT	LF	
CICI DESIGN 2	438066.52	2577736.46	5+13.01, 12.28' LT	683.19	680.59	2.60	5	
CICI DESIGN 2	438242.81	2578636.45	24+14.50, 17.85' RT	674.24	671.04	3.20	5	
CICI DESIGN 2	438216.85	2578615.83	24+16.76, 15.22' LT	674.26	670.56	3.70	10	
CICI DESIGN 2	438052.36	2577765.62	70+16.54, 16.63' RT	682.97	679.67	3.30	5	
CICI DESIGN 2	438085.46	2577765.14	70+16.81, 16.47' LT	683.06	679.41	3.65	5	
CICI DESIGN 2	438052.01	2578489.83	77+40.56. 33.40' RT	682.89	681.09	1.80	5	
CICI DESIGN 2	438187.05	2578636.38	80+17.18, 15.10' LT	675.44	671.09	4.35	10	
CICI DESIGN 2	438069.71	2578775.73	81+98.72, 0.00' RT	674.27	672.27	2.00	5	

<sup>\*</sup>TO CONNECT NEW STORM SEWER INLET TO EXISTING STORM SEWER PIPE





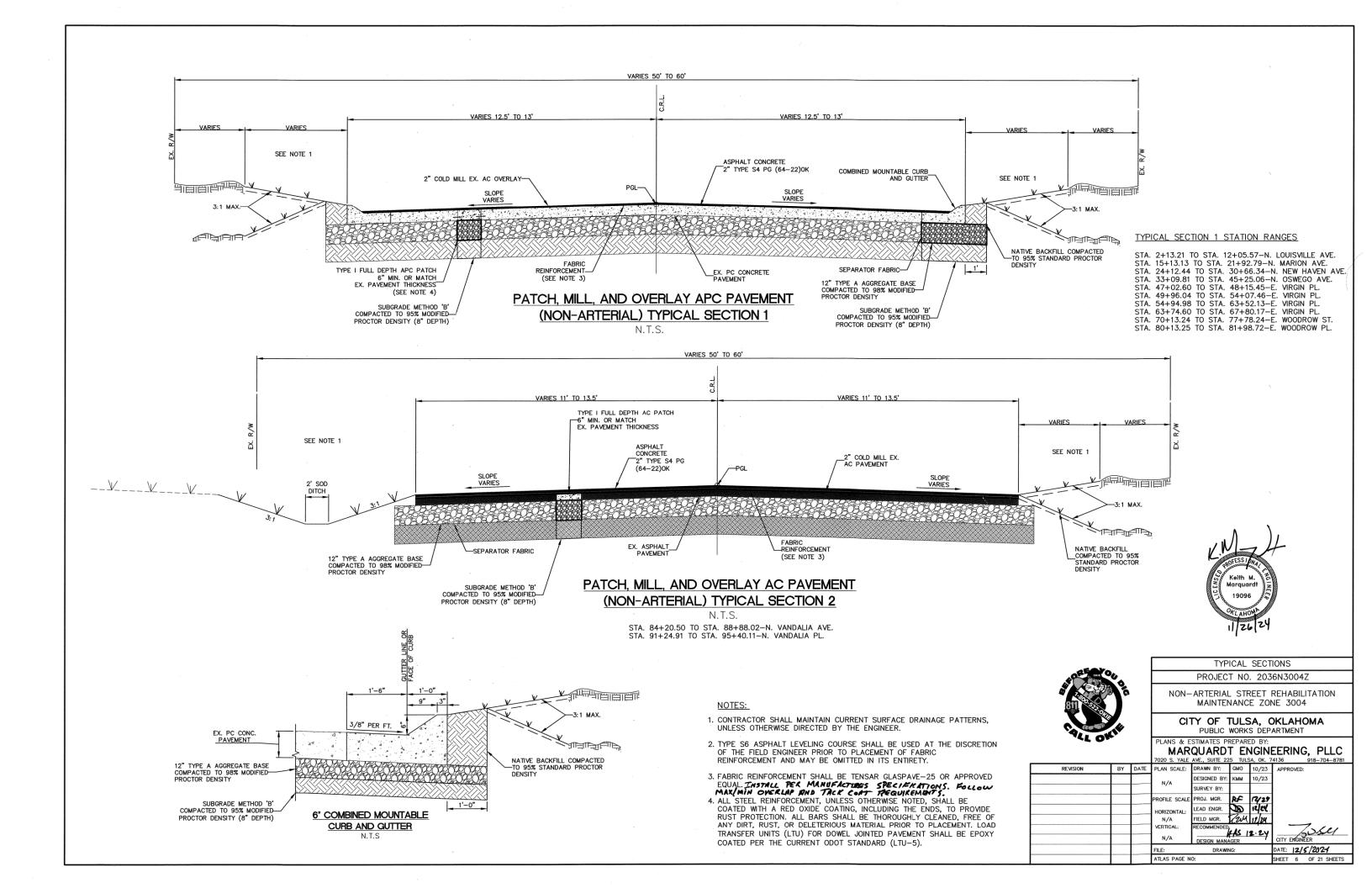
MISCELLANEOUS SUMMARIES (1) PROJECT NO. 2036N3004Z

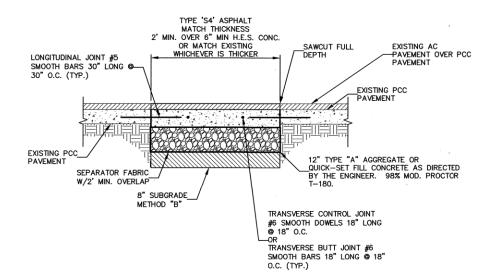
NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 3004

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

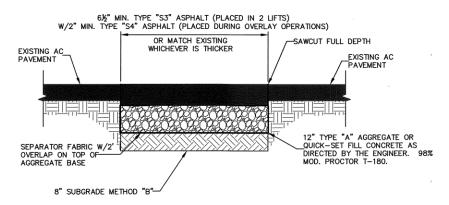
PLANS & ESTIMATES PREPARED BY:
MARQUARDT ENGINEERING, PLLC
2700 S VALE AVE. SUITE 225. TILLSA OK. 74135.

			7020 S. YALE	AVE., SUITE 22	5 TULS	SA, OK. 7	4136 918-704-8781
REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	GMO	10/23	APPROVED:
			N/A	DESIGNED BY:	КММ	10/23	
			N/A	SURVEY BY:			
			PROFILE SCALE	PROJ. MGR.	PF	12/24	
			HORIZONTAL:	LEAD ENGR.	<b>(40)</b>	12/4	1
			N/A			12/29	
			VERTICAL:	RECOMMENDED		2.24	7.354
			N/A	DESIGN MANA		007	CITY ENGINEER
			FILE:	DRAWN	IG:		DATE: 12/5/2024
			ATLAC DAGE N	۸.			CUEET E OF OL CUEETS

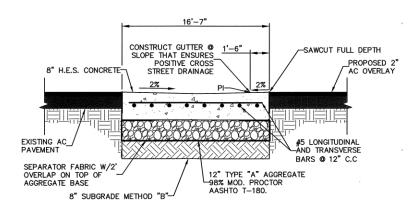




# TYPE I APC PATCH - (NON-ARTERIAL)

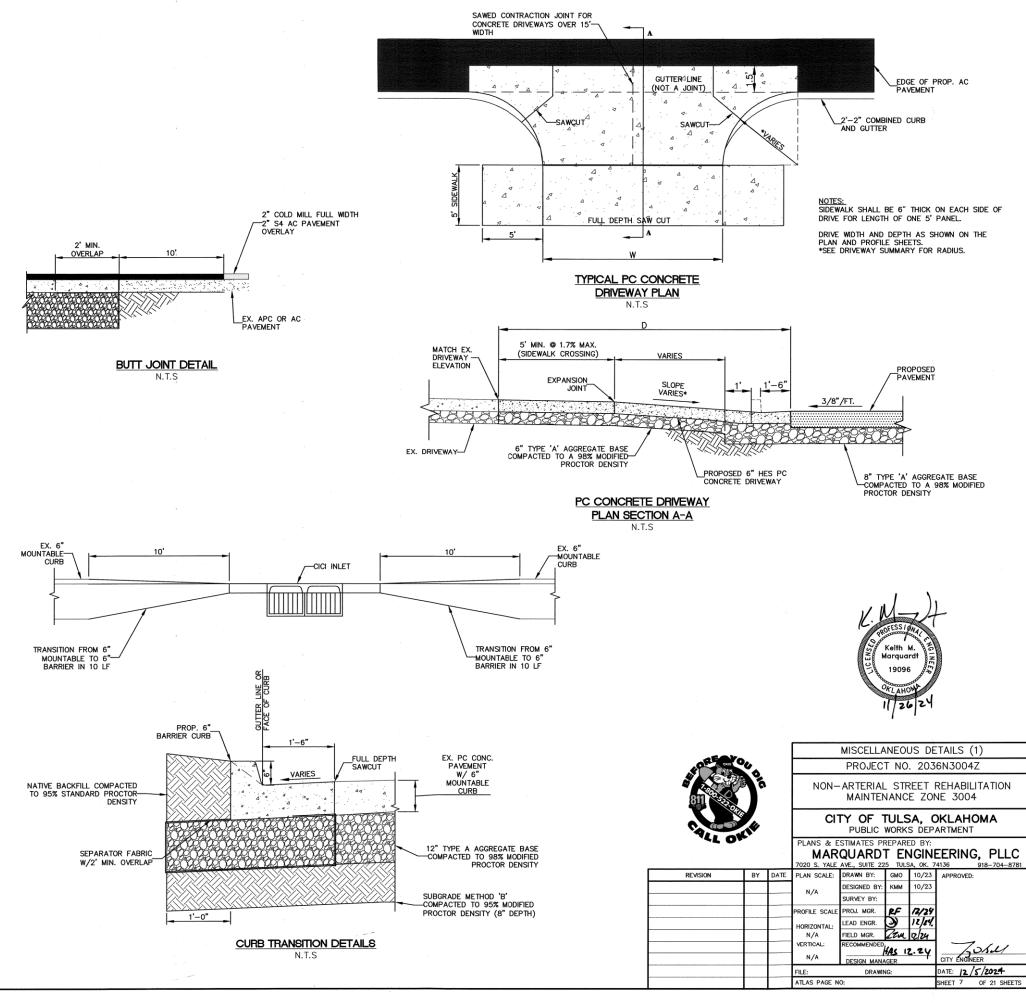


# TYPE I AC PATCH - (NON-ARTERIAL)



# PC CONCRETE VALLEY GUTTER SECTION

E. VIRGIN PL.-STA. 63+34.91 TO STA. 63+52.99 PAID FOR AS TYPE I FULL DEPTH PCC PATCH



# STORM WATER MANAGEMENT PLAN

SOIL STABILIZATION PRACTICES:

OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES:

TEMPORARY SEEDING

VEGETATIVE MULCHING

SOIL RETENTION BLANKET

X PERMANENT SODDING, SPRIGGING OR SEEDING

X PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON

FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS,

STABILIZED CONSTRUCTION EXIT

X TEMPORARY SILT FENCE

X TEMPORARY SILT DIKES

ROCK FILTER DAMS TEMPORARY SLOPE DRAIN

TEMPORARY FIBER LOG

ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED

DIVERSION, INTERCEPTOR OR PERIMETER DIKES DIVERSION, INTERCEPTOR OR PERIMETER SWALES

PAVED DITCH W/ DITCH LINER PROTECTION

HAUL ROADS DAMPENED FOR DUST CONTROL

X EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN

TEMPORARY DIVERSION CHANNELS

TEMPORARY SEDIMENT BASINS

TEMPORARY SEDIMENT TRAPS

TEMPORARY SEDIMENT FILTERS

# SITE DESCRIPTION

# **EROSION AND SEDIMENT CONTROLS**

PROJECT LIMITS: _CITY OF TULSA MAIN	NTENANCE ZONE 3004:								
STREETS INCLUDED ARE: N. LOUIVILLE AVE.,	N. MARION AVE., N. NEW HAVEN AVE., N. OSWEGO AVE.,								
E. WOODROW PL., E. WOODROW ST. AND E. V	IRGIN PL., LOCATED IN THE NW 1/4 OF SECTION 28,								
TOWNSHIP 20 NORTH, RANGE 13 EAST, NEW H	HAVEN ADDITION TO THE CITY OF TULSA.								
ALSO: S. VANDALIA AVE. AND S. VANDALIA PL.	ALSO: S. VANDALIA AVE. AND S. VANDALIA PL. , LOCATED IN THE SE 1/4 OF SECTION 28, TOWNSHIP 20								
NORTH, RANGE 13 EAST, WEE RANCHO ADDIT	NORTH, RANGE 13 EAST, WEE RANCHO ADDITION TO THE CITY OF TULSA.								
PROJECT DESCRIPTION: NON-ARTI	ERIAL STREET PAVEMENT REHABILITATION.								
	FOR WILL INSTALL ALL PERIMETER TEMPORARY SEDIMENT								
	ID STABILIZE TOPSOIL. CLEAR AND GRUB ONLY IN NECESSARY								
	TATION AS POSSIBLE. INSTALL, MAINTAIN AND/OR MOVE								
	UCTION OPERATIONS AS PRACTICAL. IF DIRECTED BY THE								
	PLACE SALVAGED TOPSOIL AND DEVICES WHEN AN								
	70%) HAS BEEN ATTAINED. AS SITE CONDITIONS WARRANT, THE								
	TYPE OR ARRANGEMENT OF SPECIFIED PRACTICES TO IMPROVE								
	ENGINEER. THE CONTRACTOR WILL MAINTAIN A LOG OF THE								
	TIES, AND ALSO THE DATES OF INSTALLATION OF EROSION								
CONTROL MEASURES.									
SOIL TYPE:	URBAN LAND-DENNIS COMPLEX, 0 TO 5 PERCENT SLOPES								
TOTAL AREA OF THE CONSTRUCTION SITE:	9.02 ACRES								
ESTIMATED AREA TO BE DISTURBED:	0.30 ACRES								
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)	N/A								
TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION:	4.02 ACRES								
TOTAL IMPERVIOUS AREA POST-CONSTRUCTION:	4.02 ACRES								
POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE:	0.60								
LATITUDE & LONGITUDE OF CENTER OF PROJECT:	36° 11' 11.00" N., 95° 56' 06.00" W.								
PROJECT W	VILL DISCHARGE TO:								
NAME OF RECEIVING WATERS:	COAL CREEK								
SENSITIVE WATERS OR WATERSHEDS:	YES NO X								
303(d) IMPAIRED WATERS:	YES NO X								
IF YES, LIST IMPAIRMENT:									
LOCATED IN A TMDL:	YES X NO								
ARKANSAS RIVER TMDL:	YES NO X								
MS4 ENTITY	YES X NO								
IF YES, LOCATION:	CITY OF TULSA, OKLAHOMA								
ILLUSTRATES THE DRAINAGE PATTER	JUNCTION WITH A DRAINAGE MAP THAT NS/PATHWAYS AND RECEIVING WATERS ULD ALSO BE USED WITH THE EROSION NOTES.								

## TEMPORARY SEDIMENT REMOVAL RIP RAP X INLET SEDIMENT FILTER TEMPORARY BRUSH SEDIMENT BARRIERS SANDBAG BERMS TEMPORARY STREAM CROSSINGS 107.01 107.20 220 221 OFFSITE VEHICLE TRACKING:

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

### MAINTENANCE AND INSPECTION:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY ERODIBLE AREAS. DRAINAGEWAYS. MATERIAL STORAGE. STRUCTURAL DEVICES. CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

### WASTE MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR. MATERIALS INCLUDE STOCKPILES. SURPLUS. DEBRIS AND ALL OTHER BY-PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL. STATE AND LOCAL

### HAZARDOUS MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

### **GENERAL NOTES:**

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL CONTRACTOR OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING DOLLARDS IN STORM WATER DISCOMANCES. PURPOSE PROJECT ON STORM WATER OF A POSTENTIAL FOR POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

### THE FOLLOWING SECTIONS OF THE 2019 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:

103.05 BONDING REQUIREMENTS

104.10 FINAL CLEANING UP

104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK

104.13 ENVIRONMENTAL PROTECTION

STORAGE AND HANDLING OF MATERIAL

LAWS, RULES AND REGULATIONS TO BE OBSERVED

STORM WATER MANAGEMENT

MANAGEMENT OF EROSION, SEDIMENTATION, AND STORM WATER POLLUTION PREVENTION

TEMPORARY SEDIMENT CONTROL

### IN ADDITION:

"ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ, WATER QUALITY DIVISION, NOVEMBER 1, 2023.

STORM WATER MANAGEMENT PLAN PROJECT NO. 2036N3004Z

NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 3004

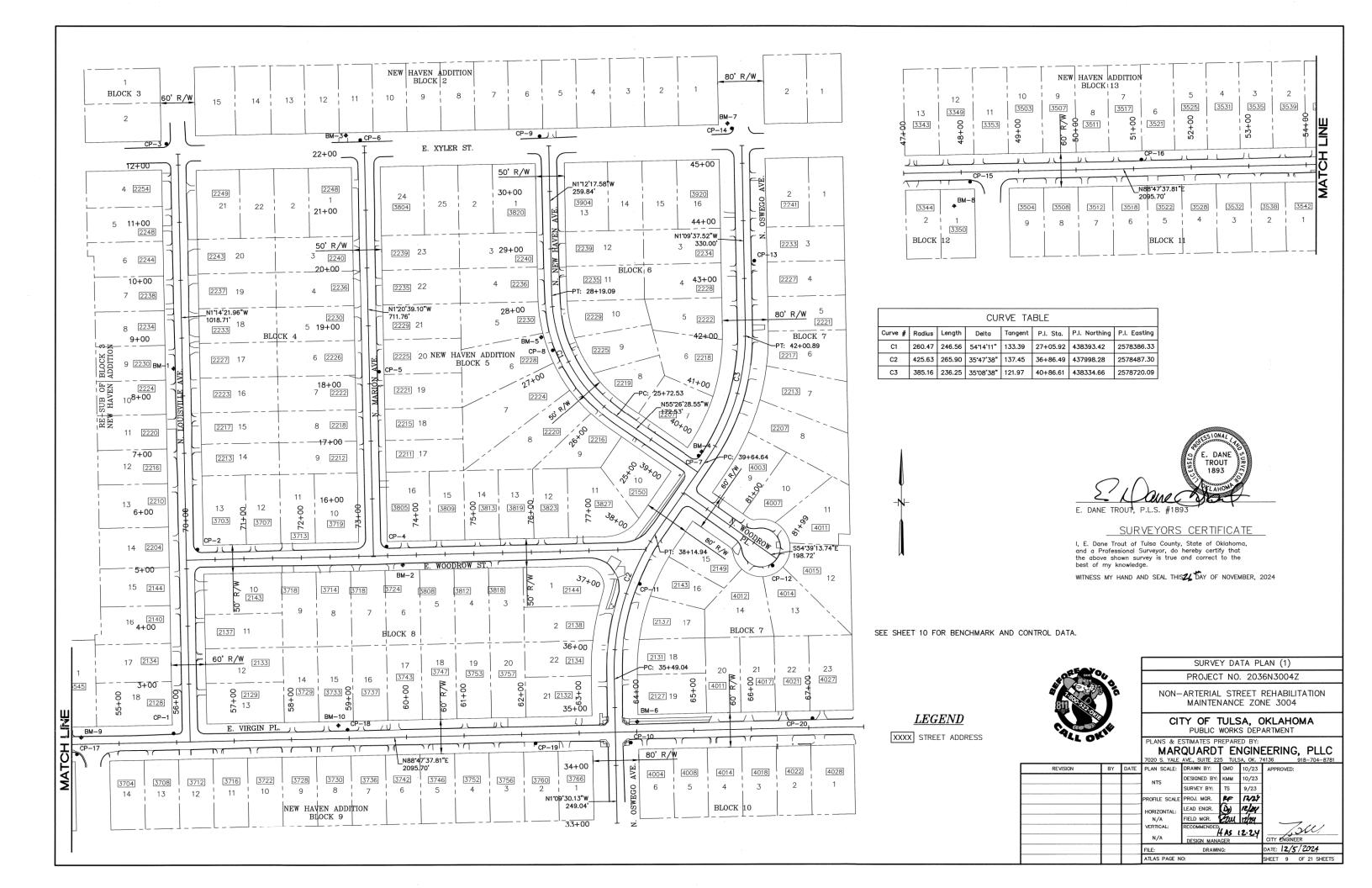
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT

MARQUARDT ENGINEERING, PLLC



	7020 S. YALE AVE., SUITE 225 TULSA, OK. 74136 918-704-8						
REVISION	BY	DATE	PLAN SCALE:	DRAWN BY:	GMO	10/23	APPROVED:
			N/A	DESIGNED BY:	КММ	10/23	
			17/	SURVEY BY:			
			PROFILE SCALE	PROJ. MGR.	RE	12/28	
			HORIZONTAL:	LEAD ENGR.	0	13/24	
			N/A	FIELD MGR.	DZM	17/24	
			VERTICAL:	RECOMMENDED	AS I		7,35.4
			N/A	DESIGN MANA		- 64	CITY ENGINEER
			FILE:	DRAWIN	IG:		DATE: 12/5/2024
			ATLAS PAGE N	0:			SHEET 8 OF 21 SHEETS

PLANS & ESTIMATES PREPARED BY



SURVEY CONTROL									
Point #	Elevation	Northing	Easting	Description					
CP-1	688.51	437768.48	2577726.63	Iron Pin w/Cap Set					
CP-2	683.82	438087.13	2577767.95	Iron Pin w/Cap Set					
CP-3	692.76	438790.20	2577713.04	Iron Pin w/Cap Set					
CP-4	681.38	438092.35	2578096.73	Iron Pin w/Cap Set					
CP-5	684.73	438395.58	2578083.53	Iron Pin w/Cap Set					
CP-6	687.51	438796.82	2578050.22	Iron Pin w/Cap Set					
CP-7	676.80	438248.58	2578639.65	Iron Pin w/Cap Set					
CP-8	680.88	438432.31	2578385.41	Iron Pin w/Cap Set					
CP-9	684.52	438803.47	2578362.14	Iron Pin w/Cap Set					
CP-10	681.89	437751.21	2578521.45	Iron Pin w/Cap Set					
CP-11	677.86	438026.61	2578536.89	Iron Pin w/Cap Set					
CP-12	674.64	438057.94	2578768.63	Iron Pin w/Cap Set					
CP-13	681.26	438586.50	2578736.23	Iron Pin w/Cap Set					
CP-14	684.91	438816.41	2578696.73	Iron Pin w/Cap Set					
CP-15	695.29	437719.90	2576947.57	Iron Pin w/Cap Set					
CP-16	688.94	437758.49	2577245.33	Iron Pin w/Cap Set					
CP-17	687.12	437732.62	2577558.35	Iron Pin w/Cap Set					
CP-18	685.94	437774.77	2578029.08	Iron Pin w/Cap Set					
CP-19	683.00	437750.65	2578356.12	Iron Pin w/Cap Set					
CP-20	678.14	437793.00	2578838.13	Iron Pin w/Cap Set					
CP-21	684.09	435062.79	2580806.80	Iron Pin w/Cap Set					
CP-22	686.87	435076.90	2581112.79	Iron Pin w/Cap Set					

UNPLATTED

1526

UNPLATTED

1522

UNPLATTED

1524

N1\*00'11.03"W\_ 488.02'

UNPLATTED

1510

88+00

87+00

86+00

85+00

84+00

BM-11

			Point #	Elevation	Northing	Easting	Description
			BM-1	688.12	438401.06	2577726.06	IP w/Cap Set
			BM-2	680.92	438060.22	2578125.00	Mag Nail Set
			BM-3	688.69	438804.98	2578025.27	Mag Nail Set
			BM-4	676.57	438255.59	2578644.75	Mag Nail Set
			BM-5	681.99	438454.90	2578365.51	Mag Nail Set
	UNPLATTED		вм-6	680.92	437787.29	2578532.46	Mag Nail Set
	1551		BM-7	684.97	438824.93	2578689.18	Mag Nail Set
	,		BM-8	696.40	437677.78	2576920.02	Mag Nail Set
		-	BM-9	686.78	437761.48	2577565.92	Mag Nail Set
UNPLATTED	UNPLATTED		BM-10	686.40	437782.09	2578013.26	Mag Nail Set
4301	1547		BM-11	0.00	435413.98	2580763.41	Mag Nail Set
			BM-12	660.93	435430.19	2581108.95	Mag Nail Set
	1537 3						
	T   T   T   T   T   T   T   T   T   T						

BLOCK 3

1534

WEE RANCHO ADDITION BLOCK 2

1 1530

1524

93+00

92+00

<del>-91+00</del>

3 1520

4 1514

5 1510

6 1506

E. PINE ST.

1533 4

1529 5

1523 6

1517. 7

1513 8

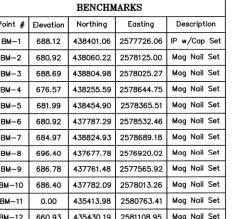
1509 g

1505 10

50' R/W

BLOCK 3

95+00



BLOCK 3

1533 1

1529 1

BLOCK 1

N1°29'16.15"W 440.11' \_ \_\_\_\_

1523 2

1519 3

1513 4

1507 5

1503 6

60' R/W



<u>LEGEND</u>

XXXX STREET ADDRESS



# SURVEYORS CERTIFICATE

I, E. Dane Trout of Tulsa County, State of Oklahoma, and a Professional Surveyor, do hereby certify that the above shown survey is true and correct to the best of my knowledge.

WITNESS MY HAND AND SEAL THIS 24 DAY OF NOVEMBER, 2024



SURVEY DATA SHEET (2) PROJECT NO. 2036N3004Z

NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 3004

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

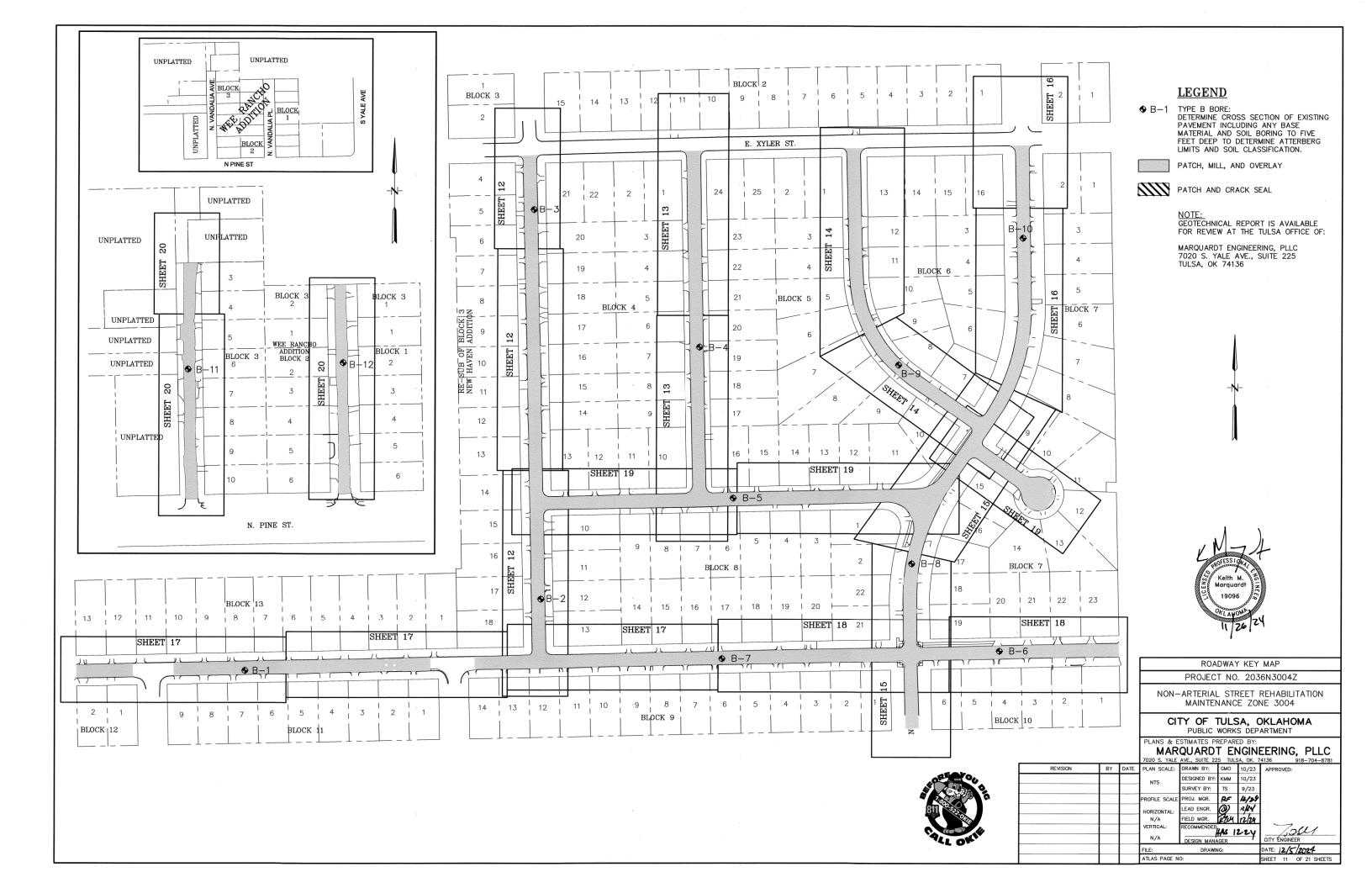
PLANS & ESTIMATES PREPARED BY:

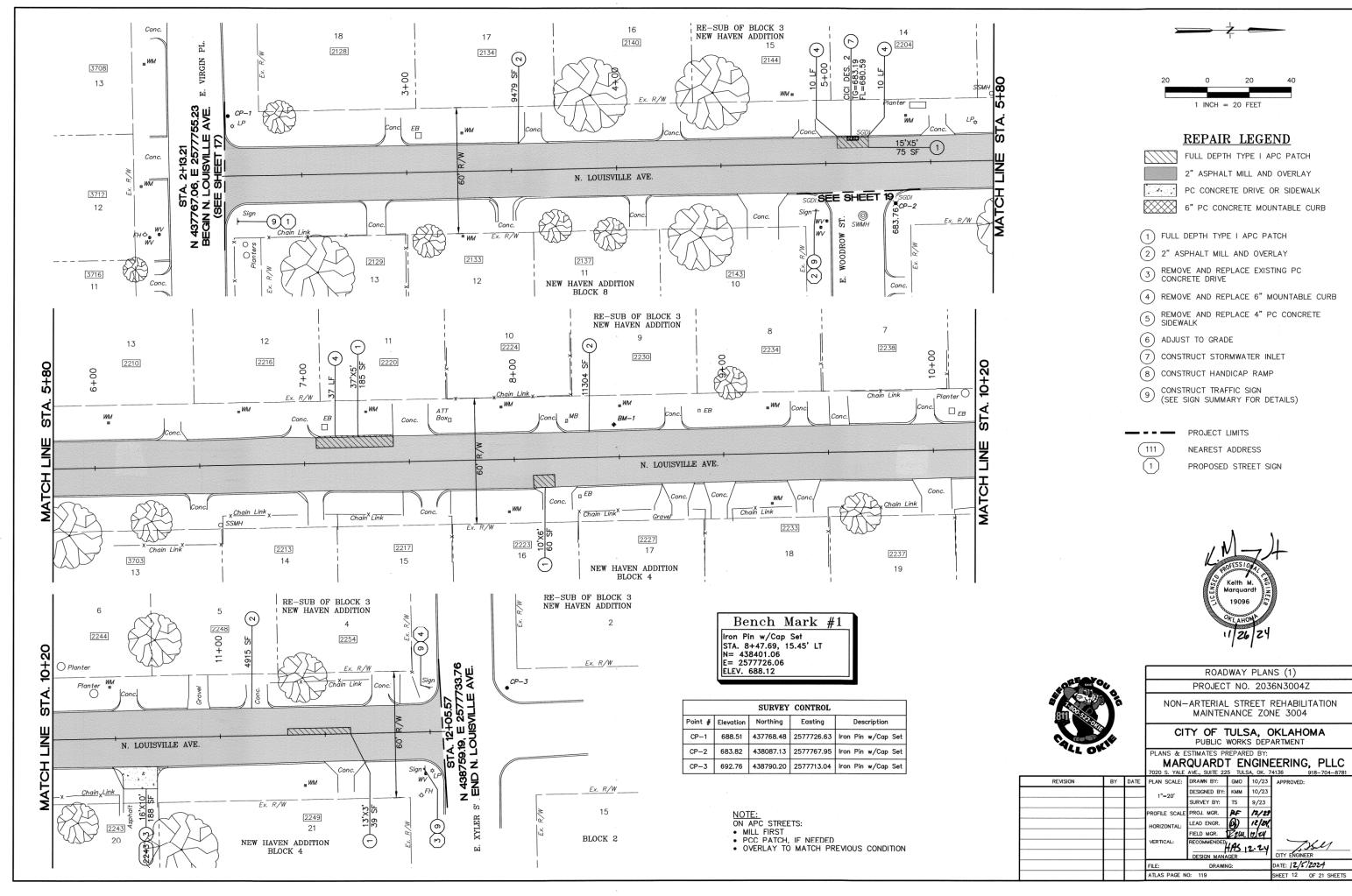
MARQUARDT ENGINEERING, PLLC
7020 S. YALE AVE., SUITE 225 TULSA, OK. 74136 918–704–8781

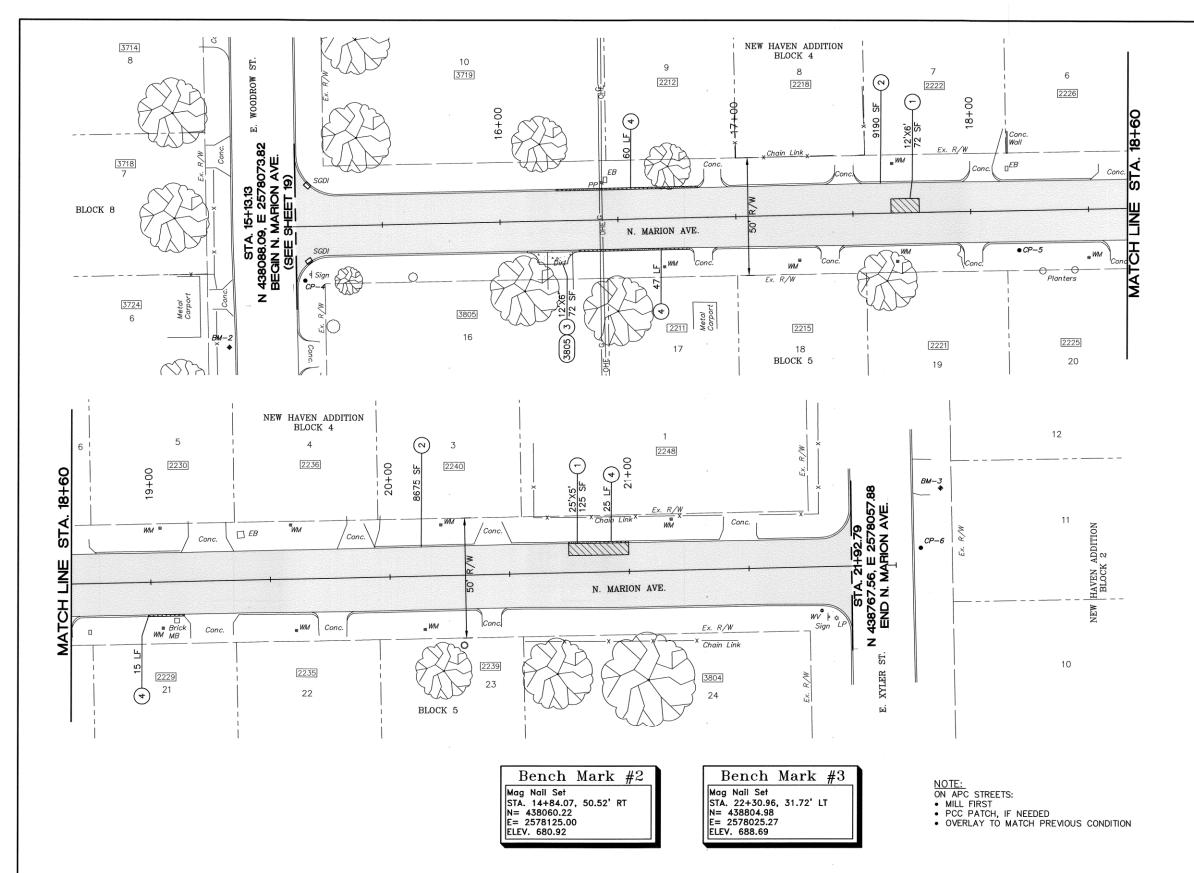
REVISION DESIGNED BY: KMM PROJ. MGR. RF 12/29
LEAD ENGR. (1) 12/24 ROFILE SCALE TELD MGR. N/A

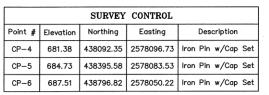
ATLAS PAGE NO:

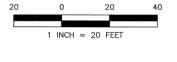
DATE: 12/5/2024











## REPAIR LEGEND

FULL DEPTH TYPE I APC PATCH

2" ASPHALT MILL AND OVERLAY

PC CONCRETE DRIVE OR SIDEWALK 6" PC CONCRETE MOUNTABLE CURB

1) FULL DEPTH TYPE I APC PATCH

(2) 2" ASPHALT MILL AND OVERLAY

3 REMOVE AND REF REMOVE AND REPLACE EXISTING PC

4) REMOVE AND REPLACE 6" MOUNTABLE CURB

5 REMOVE AND REPLACE 4" PC CONCRETE SIDEWALK

6 ADJUST TO GRADE

7) CONSTRUCT STORMWATER INLET

(8) CONSTRUCT HANDICAP RAMP

CONSTRUCT TRAFFIC SIGN

(SEE SIGN SUMMARY FOR DETAILS)

PROJECT LIMITS

NEAREST ADDRESS

PROPOSED STREET SIGN





## ROADWAY PLANS (2)

PROJECT NO. 2036N3004Z

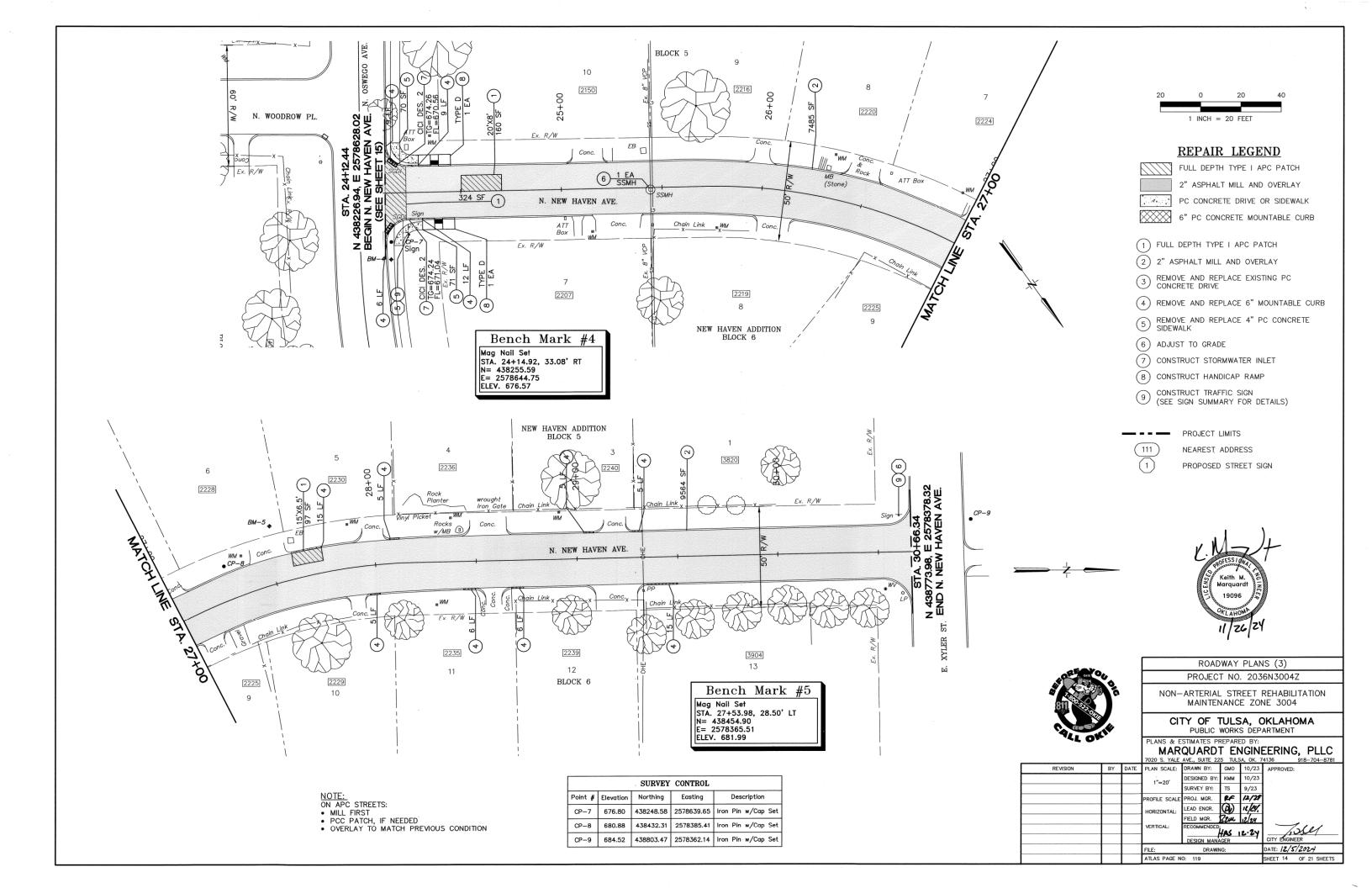
NON-ARTERIAL STREET REHABILITATION MAINTENANCE ZONE 3004

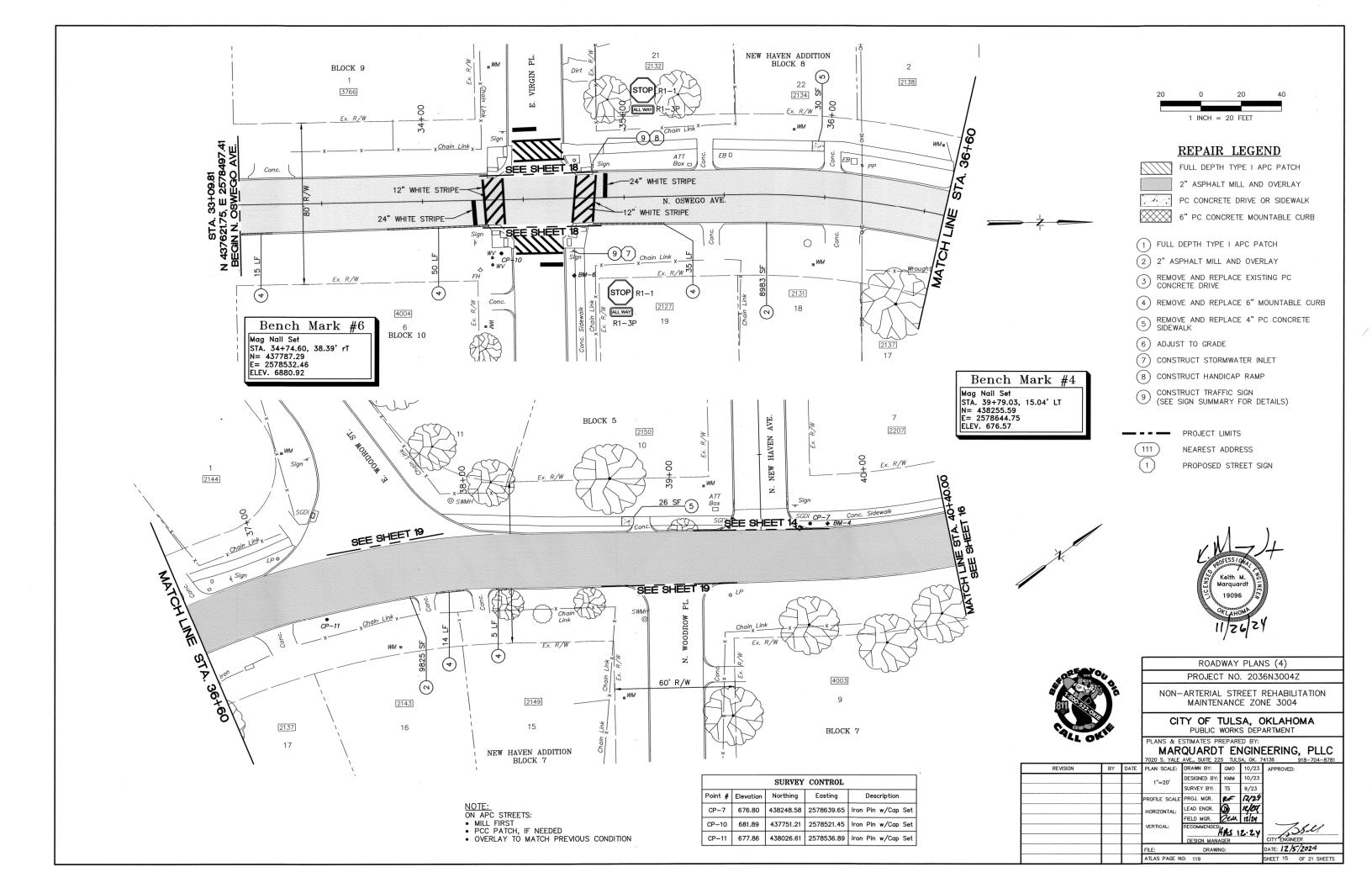
### CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT

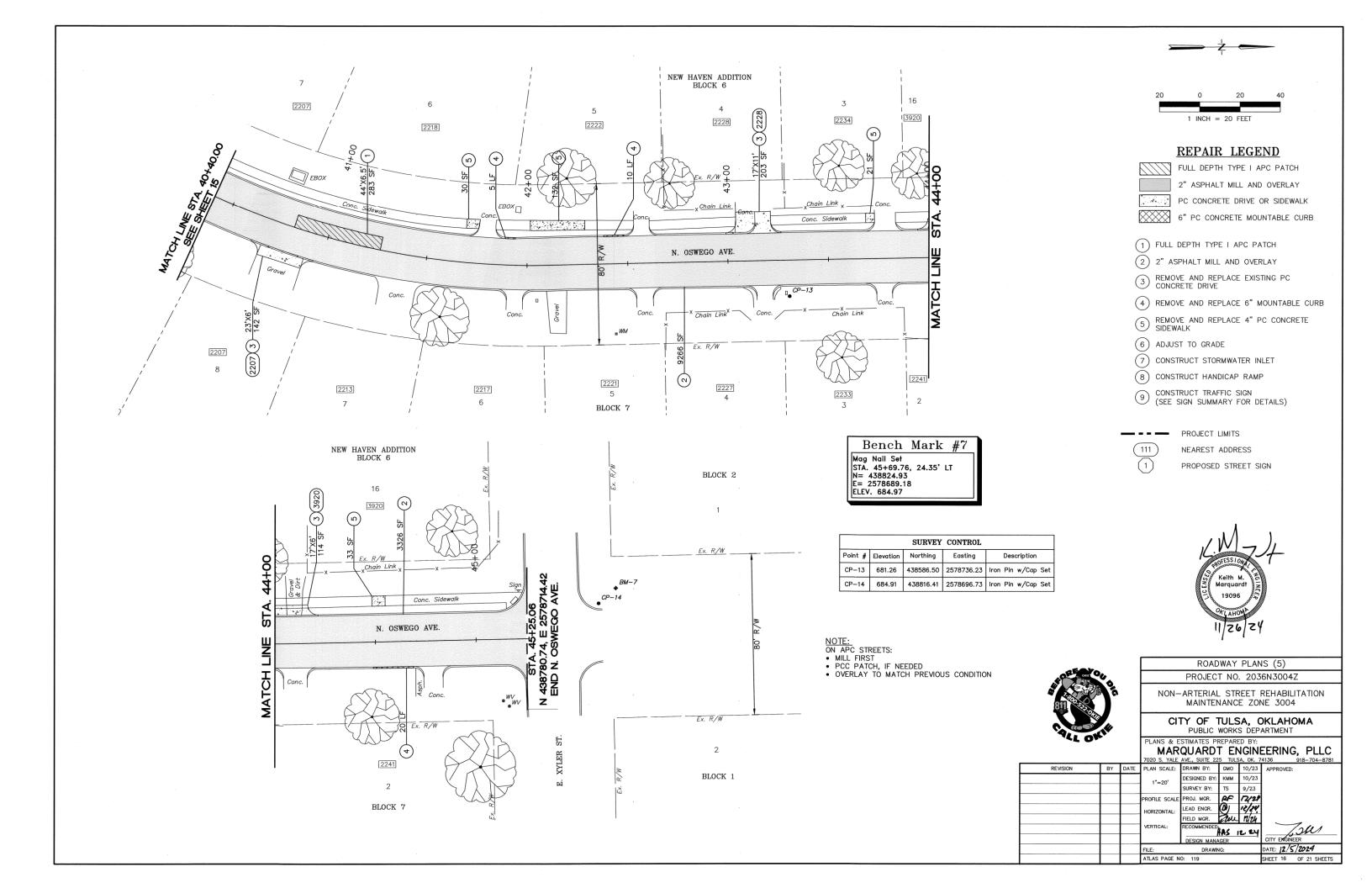
PLANS & ESTIMATES PREPARED BY:

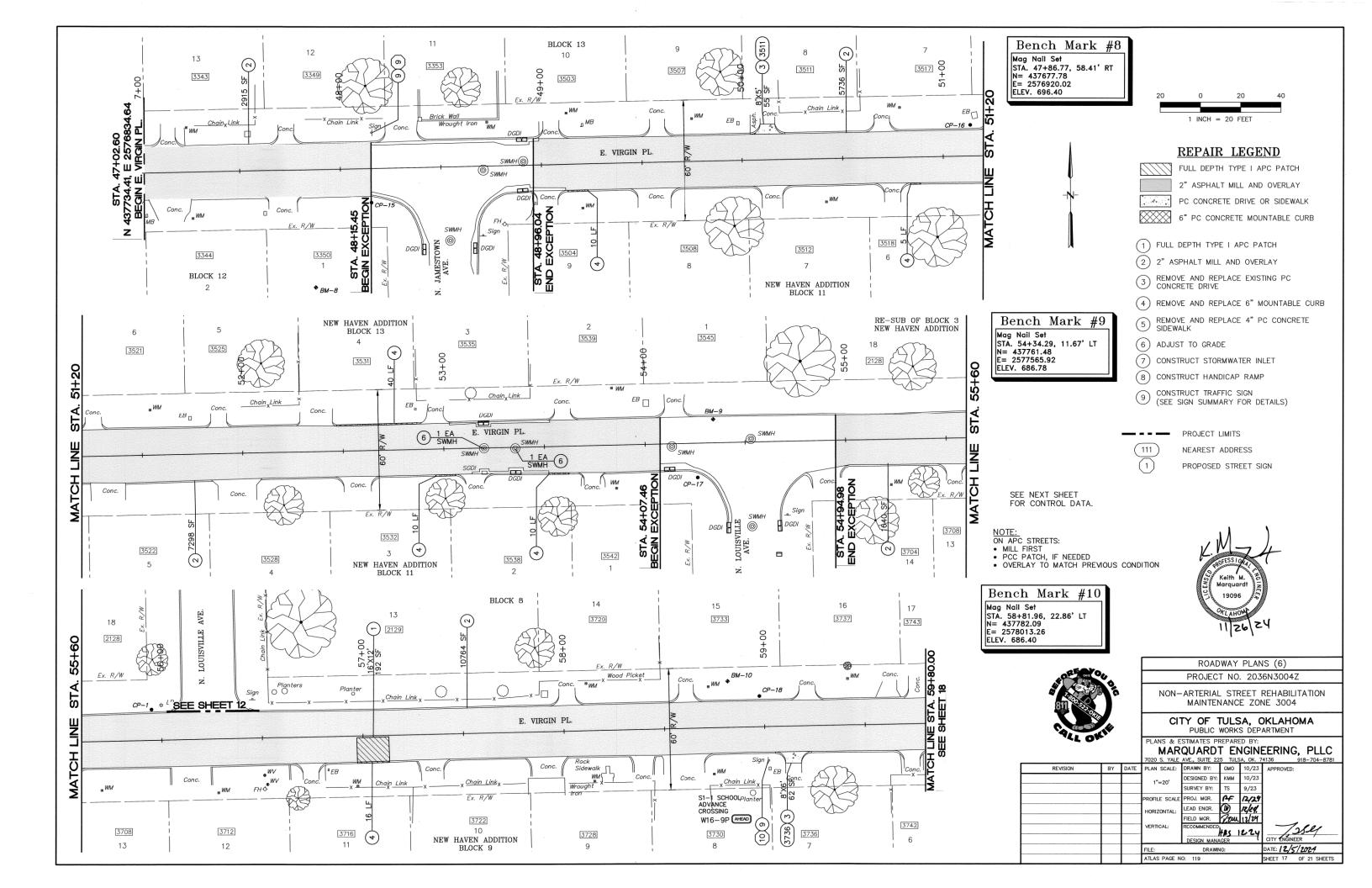
	MAR	QUARDI	ΙEΝ	1GINI	LERING	i, PLLC
	7020 S. YALE	AVE., SUITE 22	5 TULS	A, OK. 7	4136	918-704-8781
ΓE	PLAN SCALE:	DRAWN BY:	GMO	10/23	APPROVED:	

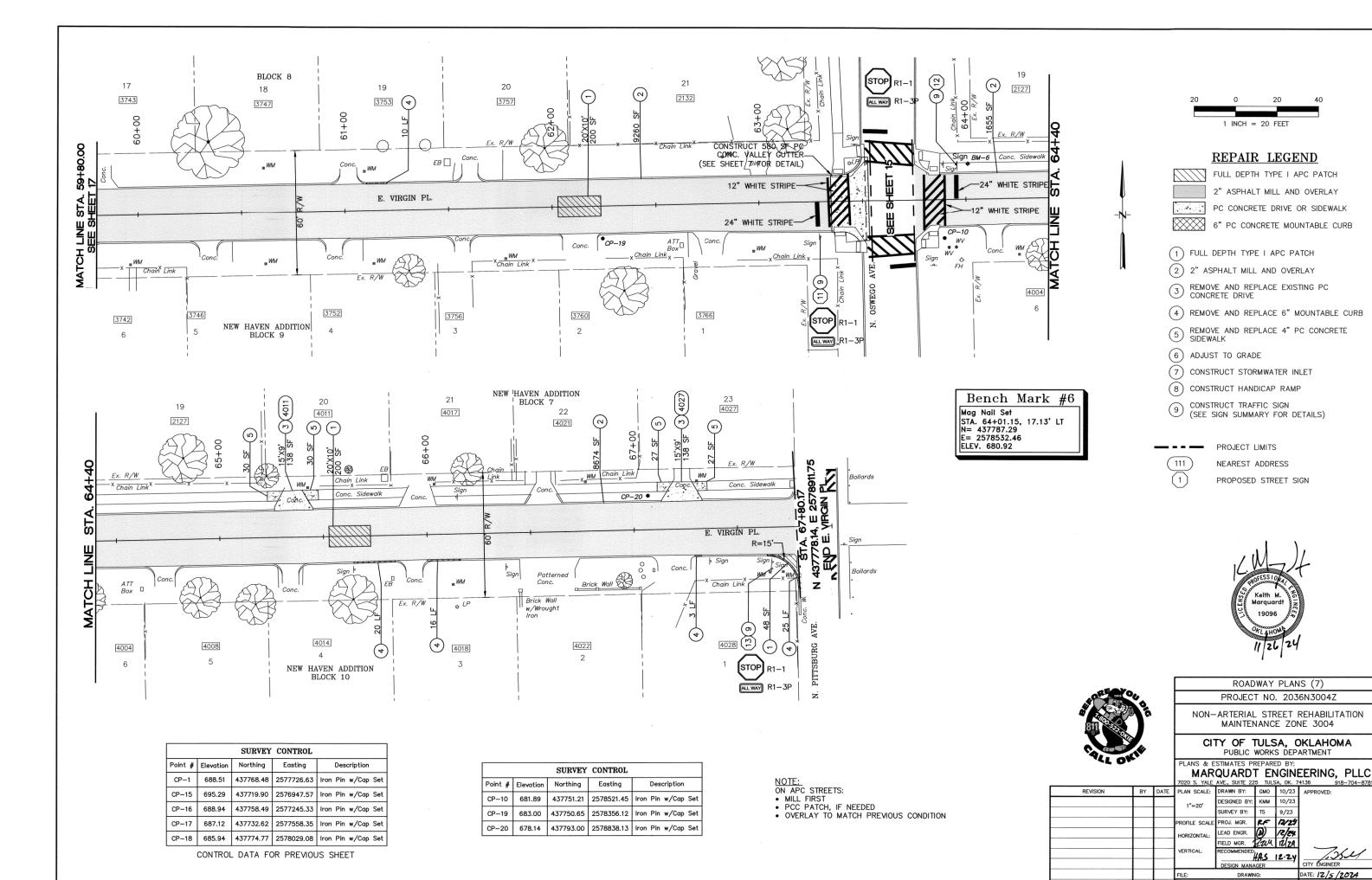
KEVISION	ы	DATE	PLAN SCALE:	DIAMIN DI.	GMO	10/23	APPROVED:
			1"=20'	DESIGNED BY:	КММ	10/23	
			1 -20	SURVEY BY:	TS	9/23	
			PROFILE SCALE	PROJ. MGR.	RF	12/24	
			HORIZONTAL:	LEAD ENGR.	<b>e</b> y	12/24	
				FIELD MGR.	Peul		
			VERTICAL:	RECOMMENDED	(AS 12	2.2.4	1,050
				DESIGN MANA		- 7	CITY ENGINEER
			FILE:	DRAWN	IG:		DATE: 12/5/2024
			ATLAS PAGE N	0: 119			SHEET 13 OF 21 SHEETS











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