

CONSTRUCTION PLANS FOR ARTERIAL STREET REHABILITATION OF E. 36TH ST. N. (N. GARNETT RD TO N. 129TH E. AVE.) (E. 36TH ST. N. & N. 129TH E. AVE. INTERSECTION)

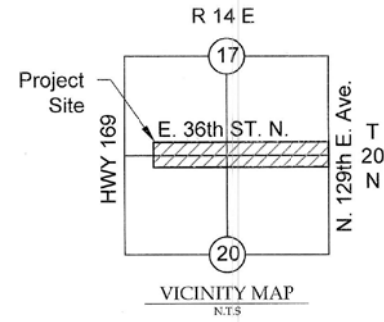
PROJECT NO.: 2036A0039Z, 2036A0056Z

ACCOUNT NO. 2036A00567.STREETS.ARTRHB.4282.42823122-541106
ACCOUNT NO. 2036A00397.STREETS.ARTRHB.4282.42823122-541106



ENGINEERING SERVICES DEPARTMENT

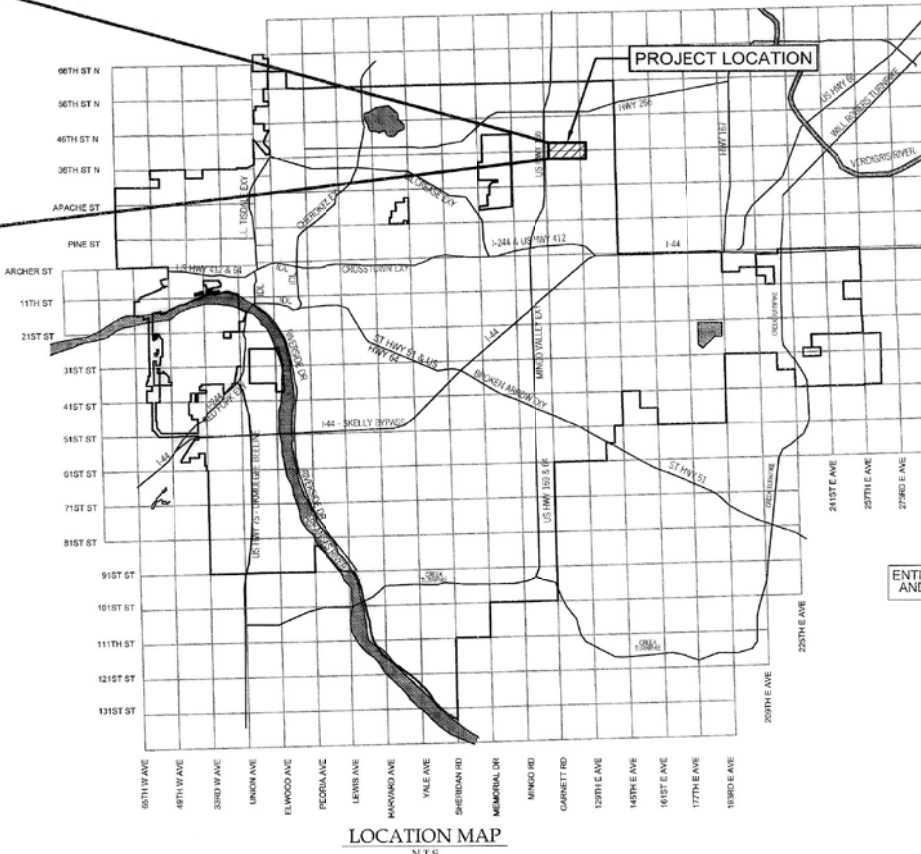
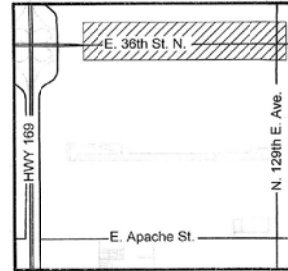
INDEX OF SHEETS	
Sheet Number	Sheet Title
01	TITLE SHEET
02	PAY ITEMS & NOTES
03	NOTES, CONSTRUCTION SEQUENCE, OWNERSHIPS & TRAFFIC CONTROL
04	SUMMARY TABLES
05	TYPICAL SECTIONS
06	PAVEMENT DETAILS
07	SURVEY DATA SHEET
08	GEOMETRIC DATA
09	SWMP
10	EROSION CONTROL PLAN
11	ROADWAY KEY MAP
12	PLAN 100+00 TO 110+00
13	PLAN 110+00 TO 120+00
14	PLAN 120+00 TO 130+00
15	PLAN 130+00 TO 140+00
16	PLAN 140+00 TO 146+00, 202+20 TO 206+00
17	PAVEMENT CORING LOCATIONS
18	SIGNING & STRIPING - 100+00 TO 110+00
19	SIGNING & STRIPING - 110+00 TO 120+00
20	SIGNING & STRIPING - 120+00 TO 130+00
21	SIGNING & STRIPING - 130+00 TO 140+00
22	SIGNING & STRIPING - INTERSECTION



REFERENCED ADS CONTROL DATA

ADS STATION NAME:	9	25
HORIZ. CONTROL:	OKLAHOMA NORTH ZONE 3501, NAD83(1993) NORTHING = 440902.419 EASTING = 2613163.370	OKLAHOMA NORTH ZONE 3501, NAD83(1993) NORTHING = 440686.515 EASTING = 2602472.097
VERT. CONTROL:	NAVD 1988 ELEVATION = 691.216	NAVD 1988 ELEVATION = 616.682
DESC:	1-1/2" ALUMINUM CAP SET IN CONC. STAMPED '9', SET S.E. OF THE INTERSECTION OF APACHE ST. & 145TH E. AVE. 66.50' S.W. TO 60D NAIL IN NORTH POLE FACE 47.50' N.W. TO CENTER OF MANHOLE	1-1/2" ALUMINUM CAP SET IN CONC. STAMPED '25', SET S.E. OF THE INTERSECTION OF APACHE ST. & 145TH E. AVE. 52.50' E.N.E. TO 60D NAIL IN CORNER POST 45.90' N.E. TO 60D NAIL IN SOUTHERNMOST GUARDRAIL POST

DESIGN INFO	
ESALS	1,440,000
SPEED	45 MPH
LANE MILES OF REHAB	1.84 MILES
AADT (CURRENT)	2,400
AADT (FUTURE)	2,400



IN ACCORDANCE WITH ODOT SECTION 105.14 THE COT IS ANTICIPATING 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 LOADING 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 AREAS. CURRENT COT CONSTRUCTION BUDGETS DO NOT ALLOW FOR GROWTH OF THE PROJECTS.

THE FOLLOWING CITY OF TULSA STANDARD DRAWINGS WILL BE USED FOR THIS PROJECT:	
102	PROJECT SIGN
938A	STREET NAME SIGNS
938B	TRAFFIC SIGNS
725	STANDARD PAVEMENT PATCH AND REPAIR
THE FOLLOWING ODOT STANDARD DRAWINGS WILL BE USED FOR THIS PROJECT:	
ROADWAY	TRAFFIC
BMPR-0	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
TESCA-0	TYPICAL TEMPORARY EROSION SEDIMENT CONTROL APPLICATIONS
RSF-0	REINFORCED SILT FENCE INSTALLATION AND APPLICATIONS
SSS-2-1	SOLID SLAB SODDING
ASCD-6-1	ASPHALT SURFACING CONSTRUCTION DETAILS
MI-4-2	MAILBOX INSTALLATION
TCS1-1-01	TRAFFIC CONTROL CONSTRUCTION NOTES
TCS2-1-00	TRAFFIC CONTROL TABLES AND CHARTS
TCS4-1-01	TRAFFIC CONTROL DEVICES
TCS5-1-00	TYPICAL SIGN INSTALLATION
TCS6-1-02	CHANNELIZING DEVICES
TCS7-1-02	ADVANCE WARNING SIGNS
TCS8-1-00	CONSTRUCTION SIGNS
TCS9-1-01	CONSTRUCTION SIGNS
TCS14-1-00	CONSTRUCTION SIGNS
TCS19-1-01	CONSTRUCTION SIGNS

ENTIRE PROJECT IS WITHIN CORPORATE AND CITY LIMITS OF TULSA, OKLAHOMA.

APPROVED BY:

T. O. Bell
CITY ENGINEER
5/21/2026
DATE

05.29.26
ADVERTISEMENT DATE

PLANS PREPARED BY:

Daniel A. Keithline
Daniel A. Keithline, P.E., S.E.
OKLA. REG. P.E., S.E. No. 17348
09/06/2023
DATE

Jim Umdenstock
James R. Umdenstock, P.E.
OKLA. REG. P.E. No. 11407
09/06/2023
DATE



KE KEITHLINE ENGINEERING GROUP, PLLC
8556 EAST 101ST STREET
SUITE C
TULSA, OK 74133
OFFICE: (918) 369-7911
CA NO: 5736, EXP: JUNE 30, 2025

LEGEND

	BENCHMARK
	WATER VALVE
	WATER CONTROL VALVE
	WATER METER
	FIRE HYDRANT
	WATER VENT
	POWER POLE
	GUY WIRE
	LIGHT POLE
	FLOOD LIGHT
	ELECTRIC METER
	TRAFFIC SIGNAL POLE
	TRAFFIC JUNCTION BOX
	ELECTRIC OUTLET
	TELEPHONE UNDERGROUND MARKER
	TELEPHONE PEDESTAL
	TELEPHONE MANHOLE
	FIBER OPTICS
	FIBER OPTIC PEDESTAL
	CABLE TV UNDERGROUND MARKER
	CABLE TV PEDESTAL
	GAS METER
	GAS VALVE
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEAN OUT
	SANITARY SEWER VENT
	FOUND MONUMENTS
	UTILITY MARKER
	BOLLARDS
	SIGN
	60D SPIKE
	MAIL BOX
	SHRUB
	DECIDUOUS TREE
	UNDERGROUND PETROLEUM LINE
	UNDERGROUND TELEPHONE
	UNDERGROUND SANITARY SEWER
	UNDERGROUND GAS
	UNDERGROUND CABLE
	UNDERGROUND WATER
	UNDERGROUND STORM SEWER
	OVERHEAD ELECTRIC
	FENCE
	CENTER LINE OF ROAD or CRL
	PROPERTY LINE
	SECTION LINE
	1/4 SECTION LINE
	PROPOSED RIGHT OF WAY
	EX. RIGHT OF WAY
	UTILITY EASEMENT
	*NOT FIELD CONFIRMED

UTILITY COORDINATION

COMPANY	NUMBER
ENGINEERING SERVICES	
WATER DESIGN	918-596-9580
WASTE WATER DESIGN	918-596-9564
TRANSPORTATION DESIGN	918-596-9636
TRAFFIC ENGINEERING DESIGN	918-596-9749
STORMWATER DESIGN	918-596-9498
COT IT NETWORK SERVICES	918-596-7070
MTTA (ERIC SMITH)	918-830-0024
COT UTILITY (CHRIS KOVAC)	918-596-9649
ONG (ROBERT REILLY)	918-831-8371
COX COMM. (JASON HOLT)	918-286-4633
AEP/PSO (LONNY HICKS)	918-250-6211
AT&T (AL NICHOLS)	918-444-1059

NOTE:
1) CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS GOVERN.
2) ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - ENGLISH GOVERN. APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, SEP. 1ST, 2020., AND AS APPROVED BY THE CITY OF TULSA.
3) THIS PROJECT COMPLIES WITH ALL OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ) REQUIREMENTS.
4) THIS DESIGN IS SPECIFICALLY PREPARED FOR USE AT THIS LOCATION SHOWN. USE IN ANY OTHER MANNER EXCEEDS THE INTENDED PURPOSE OF THESE DRAWINGS AND SPECIFICATIONS

PROJECT NO. 2036A0039Z & 2036A0056Z/ARTERIAL STREET REHABILITATION OF E. 36TH ST. N.

TRANSPORTATION DESIGN PAY ITEM NOTES v.11/14/2018

EARTHWORK / EROSION CONTROL / SITE PREPARATION (E1 - E11)

- 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: THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE 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.
- 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: NOT USED
- E-9: NOT USED
- 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/TOP-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 (S1 - S21)

S-1: 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.

S-2: INCLUDES COMPACTION OF AGGREGATE TO 98% AASHTO T180 MODIFIED PROCTOR.

S-3: SEPARATOR FABRIC (MIRAFI RS3801, OR EQUAL) 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.

S-4: 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.

S-5: 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.

S-6: ESTIMATED AT 112 LBS PER SQ YD PER 1 INCH THICK.

S-7: ODOT PAY FACTOR FOR AVERAGE LOT DENSITY SHALL NOT BE USED FOR THIS PROJECT. FAILURE TO REACH AVERAGE LOT DENSITY OF 92%-97% WILL RESULT IN REJECTION OF WORK.

S-8: A HIGHER GRADE OF ASPHALT BINDER THAN IS INDICATED ON THE PLANS MAY BE USED, BUT AT NO ADDITIONAL COST TO THE CITY.

S-8 (TABLE):

NOTE S8 (50) TABLE			
BINDER ² GRADE	MESALS	ADT ¹	NOTES
PG 64-22 OK	< 3	< 5,000	USE WHEN MORE THAN 4-6 INCHES BELOW THE SURFACE. ALSO USE FOR SHOULDERS, DRIVEWAYS, BELOW PCC, AND TEMPORARY CONSTRUCTION.
PG 70-28 OK	< 10	< 10,000	USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES.
PG 76-28 OK	>= 10	>= 10,000	USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES.
PG 76-28 E	---	---	NOT USED.

¹ USE ADT ONLY WHEN ESAL COMPUTATIONAL DATA IS NOT AVAILABLE. CALCULATE THE DESIGN ESALS BASED ON 20 YEARS.

² 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.

S-9: 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.

S-10 THRU S-20: NOT USED

S-21: THIS PAY ITEM INCLUDES THE FOLLOWING:

- A. SAW CUTTING
- B. REMOVAL OF THE EXISTING CONCRETE AND/OR ASPHALTIC CONCRETE ROADWAY (CY)
- C. TYPE S3 ASPHALTIC CONCRETE OR PC CONCRETE COMPLETE AND IN PLACE PER DETAIL
- D. SEALING OF EDGES AND TACK COAT

DOES NOT INCLUDE THE FOLLOWING:

- A. UNCLASSIFIED EXCAVATION
- B. SUBGRADE METHOD B (SY)
- C. SEPARATOR FABRIC (SY)
- D. AGGREGATE BASE (TYPE A)
- E. ASPHALT CONCRETE LEVELING OR SURFACE COURSE

REMOVAL / ADJUSTMENT (R1 - R6)

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 THRU R-6: NOT USED

GENERAL (G1 - G10)

G-1: 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.

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.

G-5: 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.

G-6: 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 ENGINEER.

G-7: AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST SHALL OVERSEE ALL PLANTINGS AND/OR REMOVAL OF TREES. CONTACT CITY ARBORIST TO ACCEPT FINAL PLANTINGS. CONTACT # 918-596-2548

G-8: NOT USED

G-9: CONTRACTOR SHALL COORDINATE WITH HOMEOWNERS TO RESET ALL PAVERS, LANDSCAPE STONE, PRIVATE SIDEWALKS AND FENCES THAT ARE DISTURBED DURING CONSTRUCTION OPERATIONS. ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR RESETTING OF SUCH ITEMS IS TO BE INCLUDED IN PRICE BID FOR URBAN RIGHT OF WAY RESTORATION.

G-10: PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION.

DRAINAGE (D1 - D15) NOT USED

TRAFFIC (T1 - T7)

T-1: ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATIONS 625 REMOVAL OF TRAFFIC ITEMS.

T-2: 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.

T-3: ALL PLASTIC PAVEMENT MARKINGS SHALL BE EXTRUDED-APPLIED THERMOPLASTIC (USE ON ASPHALT & CONCRETE PAVEMENT). THERMOPLASTIC PAVEMENT MARKINGS SHALL ONLY BE APPLIED WHEN THE SURFACE TEMPERATURE EXCEEDS 55°F FOR ALL OF THE SIX HOURS PRIOR TO INSTALLATION AND MAXIMUM WIND GUSTS ARE BELOW 15 MPH AT THE TIME OF APPLICATION. PRICE BID TO INCLUDE FLEX TABS OR LIKE KING FOR POST CONSTRUCTION LANE MARKING/SEPARATION. MECHANICALLY APPLIED PREFORMED PLASTIC TAPE ("COLD TAPE") WILL NOT BE ACCEPTED.

T-4: 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.

T-5: IF WARNING LIGHTS ARE TO 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 TYPE "C" LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE.

T-6: 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 SPECIFICATIONS.

T-7: PRICE BID FOR THIS ITEM INCLUDES INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF PROJECT SIGN.

ADDITIONAL PAY NOTES (X-1 THRU X-4)

X-1: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS PART OF THIS PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS.

X-2: PRICE BID INCLUDES THE REMOVAL & REPLACEMENT.

X-3: INCLUDES EXCAVATION FOR AGGREGATE BASE BETWEEN ASPHALT PAVEMENT EDGE AND CONSTRUCTION LIMITS.

X-4: REMOVAL OF 24" STOP BAR ON N. 125th E. AVE.

NOTE:

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 QUANTITIES					
BID ITEM NO.	SPEC NO.	DESCRIPTION	PAY NOTES	UNIT	TOTAL QTY
1	202(A)	UNCLASSIFIED EXCAVATION	X-3; E-3, 4; R-1; G-5	CY	1,337
2	220	SWPPP DOCUMENTATION AND MANAGEMENT	E-6	LSUM	1
3	221(B)	TEMPORARY SILT FENCE	E-7	LF	2,301
4	221(E)	TEMPORARY SILT DIKE	E-7	LF	180
5	230(A)	SOLID SLAB SODDING	E-10, 11	SY	767
6	303(A)	AGGREGATE BASE TYPE A	S-1, 2	CY	1,626
7	310(B)	SUBGRADE METHOD B		SY	3,336
8	325	SEPARATOR FABRIC	S-3	SY	3,336
9	409(A)	FABRIC REINFORCEMENT (TENSAR GP50, OR APPROVED EQUAL)	S-4	SY	16,646
10	411(B)	SUPERPAVE, TYPE S3 (PG 64-22)	S-5, 6, 7, 8	TON	112
11	411(C)	SUPERPAVE, TYPE S4 (PG 70-28)	S-5, 6, 7, 8	TON	1,921
12	411(E)	SUPERPAVE, TYPE S6 (PG 64-22)	S-5, 6, 7, 8; G-1	TON	464
13	412	COLD MILLING PAVEMENT	S-9	SY	1,072
14	COT 608(A)	GROUND SIGN	T-2; X-1, 2	SF	200
15	COT 608(C)	1-1/2" SQUARE TUBE POST	X-1, 2	LF	48
16	COT 608(D)	1-3/4" SQUARE TUBE POST	X-1, 2	LF	320
17	COT 608(E)	2" SQUARE TUBE POST	X-1, 2	LF	96
18	641	MOBILIZATION	G-2	EA	1
19	642	CONSTRUCTION STAKING LEVEL II	G-3, 4	EA	1
20	805(D)	(PI) REMOVE & RESET EXISTING SIGNS	T-1	EA	3
21	855(A)	TRAFFIC STRIPE (PLASTIC) (4" WIDE)	T-3	LF	20,863
22	855(A)	TRAFFIC STRIPE (PLASTIC) (8" WIDE)	T-3	LF	620
23	855(A)	TRAFFIC STRIPE (PLASTIC) (24" WIDE)	T-3	LF	94
24	855(B)	TRAFFIC STRIPE (PLASTIC) (ARROWS)	T-3	LF	3
25	880(B)	CONSTRUCTION SIGNS 0 TO 6.25 SF	T-2, 4, 5	SD	8,600
26	880(B)	CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF	T-2, 4, 5	SD	4,300
27	880(B)	CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF	T-2, 4, 5	SD	5,400
28	880(C)	BARRICADES (TYPE III)	T-2, 4, 5	SD	4,320
29	880(G)	TUBE CHANNELIZERS	T-2, 4	SD	5,000
30	880(I)	FLAGGER	T-6	FD	50
31	957(F)	PAVEMENT MARKING REMOVAL (TRAFFIC STRIPING)	X-4	LF	26
32	SPECIAL	PROJECT SIGN (CITY OF TULSA STD 102)	T-7	EA	1
33	SPECIAL	TYPE I AC PATCH	S-21; G-1	CY	615
34	SPECIAL	OWNERS ALLOWANCE		EA	25,000
35	SPECIAL	URBAN RIGHT-OF-WAY RESTORATION	G-5,6,7,9,10	EA	1
36	COT 334	CONSTRUCTION AS-BUILT		LSUM	1
37	COT 335	CONTRACTOR QUALITY CONTROL		LSUM	1

SUMMARY OF EROSION QUANTITIES				
SHEET NO.	STATION CL	TEMPORARY SILT FENCE	TEMPORARY SILT DIKE	SOLID SLAB SODDING
		LF	LF	SY
12	E. 36TH ST. N., 100+00 TO 105+00	235	10	78
12	E. 36TH ST. N., 105+00 TO 110+00	289	20	96
13	E. 36TH ST. N., 110+00 TO 115+00	254	20	85
13	E. 36TH ST. N., 115+00 TO 120+00	195	20	65
14	E. 36TH ST. N., 120+00 TO 125+00	234	20	78
14	E. 36TH ST. N., 125+00 TO 130+00	232	20	77
15	E. 36TH ST. N., 130+00 TO 135+00	200	20	67
15	E. 36TH ST. N., 135+00 TO 140+00	255	20	85
16	E. 36TH ST. N., 140+00 TO 145+32	215	20	72
16	N. 129TH E. AVE., 200+00 TO 201+33	80	--	27
16	N. 129TH E. AVE., 201+67 TO 203+00	112	10	37
TOTAL		2,301	180	767



PAY ITEMS & PAY NOTES

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
1" = N/A			DESIGNED	DAK	01-30-2023		
			SURVEY	JRL	12-05-2022		
PROFILE SCALE			PROJECT MGR		10-9-24		
HORIZONTAL:			LEAD ENGINEER		2/26		
1" = N/A			FIELD MGR		3/26		
VERTICAL:			RECOMMENDED		3-26		
1" = N/A			DESIGN MANAGER				
FILE:							
ATLAS PAGE NO:	226, 285, 290, 291						DATE: SEPTEMBER 6, 2023
							SHEET 02 OF 22 SHEETS

GENERAL CONSTRUCTION NOTES v.9-12-2016

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 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 AS ADOPTED BY THE CITY OF TULSA.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCREMENT 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 AFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
- THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
- 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.
- CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
- 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.
- 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 UNMOUNTED 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.
- 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.
- LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
- ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
- 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.
- 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.
- 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.
- 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.
- 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.
- IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT 918-596-7814 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.

- 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.
- NO FLY ASH IS ALLOWED TO BE USED ON THIS PROJECT.
- PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
- 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.
- NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES.
- CURB RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS.
- 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.
- 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.
- 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 NOTIFIED.
- POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE. EXACT LENGTHS SHALL BE DETERMINED BY A FIELD SURVEY CONDUCTED BY THE CONTRACTOR.
- 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.
- 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.
- 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.
- STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
- THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
- PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.
- 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.
- ALL TRENCH WIDTHS & 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.
- THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
- CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.
- FOR TRANSITIONS, ROTATE AND ELEVATE ASPHALT SURFACE A MAXIMUM OF 1/32" OR 0.0026 FT/FT.

PROPOSED PROJECT CONSTRUCTION SEQUENCE

- PHASE 1** - INSTALL SCHEDULED FULL DEPTH ASPHALT PATCHES ACROSS 36TH ST N, FOLLOWED BY THOSE IN THE INTERSECTION, ALLOWING A MINIMUM OF ONE-LANE TRAFFIC.
- PHASE 2** - PERFORM PRESCRIBED MILL, THEN OVERLAY, OF ASPHALT PAVEMENT ACROSS 36TH ST N, FOLLOWED BY THAT IN THE INTERSECTION, ALLOWING A MINIMUM OF ONE-LANE TRAFFIC. COORDINATE MILL AND SUBSEQUENT OVERLAY WITH WEATHER FORECASTS TO AVOID ANY RAINFALL BETWEEN MILL AND OVERLAY.

TRAFFIC CONTROL

CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE LANE / TWO WAY TRAFFIC THROUGH PROJECT AT ALL TIMES, WITH FLAGMEN AS NECESSARY.

OWNERSHIP LIST					
GRANTEE	MAILING ADDRESS	LOT #, BLOCK #, SUBDIVISION	PROPERTY ADDRESS	BOOK / PAGE / DOCUMENTS	PARCEL I.D.
WARREN REAL ESTATE HOLDINGS INC	PO BOX 60758 MIDLAND TX 79711-0758	LOT 1, BLOCK 1, WARREN CAT COMPLEX	3601 N. GARNETT RD E. TULSA OK 74166	DOC# 2005133803	45865-04-17-07000
SOUTHWEST STONE, INC.	11351 E. 36TH ST. N. TULSA OK 74116	UNPLATTED	11351 E. 36TH ST. N. TULSA OK 74116	BK 6579 PG 1151 DOC# 2001090661	90417-04-17-10360
SOUTHWEST STONE, INC.	11351 E. 36TH ST. N. TULSA OK 74116	UNPLATTED	11351 E. 36TH ST. N. TULSA OK 74116	DOC# 2012028162	90417-04-17-07410
SOUTHWEST STONE, INC.	11351 E. 36TH ST. N. TULSA OK 74116	UNPLATTED	11351 E. 36TH ST. N. TULSA OK 74116	DOC# 2004080284	90417-04-17-10710
APAC-OKLAHOMA, INC.	PO BOX 55038 LEXINGTON KY 40555	UNPLATTED	GARNETT & E 36TH ST. N. TULSA OK 74116	DOC# 2008034043	90420-04-20-25370
GREENHILL PROPERTIES, LLC	1437 S. BOULDER AVE. STE 770 TULSA OK 74119-342	UNPLATTED	N/A	DOC# 2018051736	90417-04-17-42340
GREENHILL PROPERTIES, LLC	1437 S. BOULDER AVE. STE 770 TULSA OK 74119-342	UNPLATTED	N/A	DOC# 2060531360	90417-04-17-42340
APAC-CENTRAL, INC	PO BOX 55038 LEXINGTON KY 40555	UNPLATTED	12800 E 36TH ST N TULSA OK 74116	BK 4516 PG 2138	90420-04-20-37160
OLD DOMINION FREIGHT LINE, INC	N/A	UNPLATTED	N/A	DOC# 2022031863	N/A
APAC-CENTRAL, INC	PO BOX 55038 LEXINGTON KY 40555	UNPLATTED	3605 N DAVID PATRICK AVE TULSA OK 74116	DOC# 2010065517	90416-04-16-00010
APAC-CENTRAL, INC	PO BOX 55038 LEXINGTON KY 40555	UNPLATTED	36TH ST N & N DAVID PATRICK AVE TULSA OK 74116	BK 6534 PG 2671	90421-04-21-00960

SUMMARY OF DRIVEWAY QUANTITIES

SHEET NO.	STATION, SIDE	RADIUS 1		RADIUS 2		LENGTH	WIDTH	2024 - UNCLASSIFIED EXCAVATION	TYPE A AGGREGATE BASE	TOP 2" SUPERPAVE, TYPE 54 (PG 70-28 OK)	BOTTOM 4" SUPERPAVE, TYPE 53 (PG 64-22 OK)
		LF	M	LF	M						
12	103+15.83, LT	M	M	27	5	5	2	2	3		
12	108+06.67, LT	M	M	26	5	6	3	2	4		
12	108+83.97, LT	M	M	148	5	27	14	9	18		
13	110+03.99, LT	M	M	206	5	41	21	14	28		
13	114+18.44, LT	M	M	48	5	11	5	4	7		
13	115+26.07, LT	M	M	42	5	9	5	3	6		
13	116+56.49, LT	M	M	57	5	12	6	4	8		
13	116+93.91, RT	M	M	71	5	14	7	5	10		
14	120+10.34, LT	M	M	100	5	21	10	7	14		
14	129+02.55, RT	M	M	50	5	10	5	3	7		
16	140+21.82, RT	M	M	49	5	10	5	3	7		
TOTAL						166	83	56	112		

M = MATCH EXISTING RADIUS



NOTES, CONSTRUCTION SEQUENCE, OWNERSHIPS & TRAFFIC CONTROL

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = N/A	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR	WJ	11-21	
			HORIZONTAL:	LEAD ENGINEER	WJ	3/20	
			1" = N/A	FIELD MGR	WJ	3/20	
			VERTICAL:	RECOMMENDED:	WJ	3/20	
			1" = N/A	REGION MANAGER	WJ	3-20	
			FILE:				CITY ENGINEER
			ATLAS PAGE NO:	226, 280, 290, 291			DATE: SEPTEMBER 6, 2023

SUMMARY OF SIGNS

SIGN NO	STREET	STATION	OFFSET		MUTCD DESIGNATION	SIGN SIZE	GROU ND SIGN	1-1/2" SIGN POST	1-3/4" SIGN POST	2" SIGN POST BURIED	DESCRIPTION	ACTION	NOTES
			LT	RT									
			LF	LF									
1	E. 36TH ST. N.	101+02	--	23	R2-1(45)	12 X 36	3	1.5	10	3	"SPEED LIMIT 45"	REPLACE	
2	E. 36TH ST. N.	101+58	20	--	ODOT M3-3	24 X 12	--	--	--	--	"SOUTH"	REMOVE & RESET	POST BOLTED TO BASE
					ODOT M1-4(3)	30 X 24	--	--	--	ROUTE "169"			
					ODOT M6-1	21 X 15	--	--	--	DIRECTION ARROW			
3	E. 36TH ST. N.	101+58	22	--	ODOT M3-1	24 X 12	--	--	--	--	"NORTH"	REMOVE & RESET	POST BOLTED TO BASE
					ODOT M1-4(3)	30 X 24	--	--	--	ROUTE "169"			
					ODOT M5-1(R)	21 X 15	--	--	--	DIRECTION ARROW			
4	E. 36TH ST. N.	104+00	--	17	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	REPLACE	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
4a	E. 36TH ST. N.	104+00	--	17	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	REPLACE	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
5	E. 36TH ST. N.	104+06	--	18	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
5a	E. 36TH ST. N.	104+06	--	18	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
6	E. 36TH ST. N.	107+36	27	--	ODOT M2-1	21 X 15	--	--	--	--	"JCT"	REMOVE & RESET	POST BOLTED TO BASE
					ODOT M1-4(3)	30 X 24	--	--	--	ROUTE "169"			
7	E. 36TH ST. N.	115+49	--	18	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
7a	E. 36TH ST. N.	115+49	--	18	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
8	E. 36TH ST. N.	115+61	17	--	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
8a	E. 36TH ST. N.	115+61	17	--	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
9	E. 36TH ST. N.	116+55	--	16	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
9a	E. 36TH ST. N.	116+55	--	16	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
10	E. 36TH ST. N.	116+89	20	--	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
10a	E. 36TH ST. N.	116+89	20	--	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
11	E. 36TH ST. N.	117+39	17	--	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
11a	E. 36TH ST. N.	117+39	17	--	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
12	E. 36TH ST. N.	128+73		33	R2-1(46)	12 X 36	3	1.5	10	3	"SPEED LIMIT 45"	NEW SIGN	NEW SIGN
13	E. 36TH ST. N.	129+32	--	19	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
13a	E. 36TH ST. N.	129+32	--	19	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
14	E. 36TH ST. N.	131+24	--	16	W1-7	48 X 24	8	3	20	6	TWO-DIRECTION LARGE ARROW	REPLACE	TWO POSTS
15	E. 36TH ST. N.	134+32	--	22	R2-1(45)	12 X 36	3	1.5	10	3	"SPEED LIMIT 45"	NEW SIGN	
16	E. 36TH ST. N.	136+91	--	17	W3-1	30 X 30	6.25	1.5	10	3	STOP SIGN AHEAD	REPLACE	
17	E. 36TH ST. N.	141+27	18	--	R2-1(45)	24 X 30	5	1.5	10	3	"SPEED LIMIT 45"	REPLACE	
18	E. 36TH ST. N.	143+37	--	24	COT 608A	48 x 6	2	1.5	10	3	"E. 36TH ST N"		
					COT 608A	48 x 6	2				"N DAVID PATRICK AV"		
					R1-1	30 X 30	6.25				"STOP"	REPLACE	REPLACE STREET MARKER
					R1-3P	18 X 6	0.75				"ALL WAY"	REPLACE	BLADES ATOP STOP SIGN
19	E. 36TH ST. N.	144+27	20	--	COT 608A	36 X 9	4.5	1.5	10	3	"E 36th St N"	REPLACE	6" LETTERS
					R1-1	30 X 30	6.25				"N DAVID PATRICK AV"	REPLACE	6" LETTERS
					R1-3P	18 X 6	0.75				"STOP"	REPLACE	
					R1-1	30 X 30	6.25				"ALL WAY"	REPLACE	
20	N. 129TH E. AVE	201+04	--	19	R1-1	30 X 30	6.25	1.5	10	3	"STOP"	REPLACE	
					R1-3P	18 X 6	0.75				"ALL WAY"	REPLACE	
21	E. 36TH ST. N.	144+04	23	--	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
21a	E. 36TH ST. N.	144+04	23	--	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
22	N. 129TH E. AVE	201+96	21	--	R1-1	30 X 30	6.25	1.5	10	3	"STOP"	REPLACE	
					R1-3P	18 X 6	0.75				"ALL WAY"	REPLACE	
23	E. 36TH ST. N.	143+61	27	--	OM3-R	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
23a	E. 36TH ST. N.	143+61	27	--	OM3-L	12 X 36	6	1.5	10	3	OBJECT MARKER TYPE 3	NEW SIGN	TWO SIGNS - SEEN FROM BOTH DIRECTIONS
24	E. 36TH ST N	130+86	55	--	COT 608A	48 x 6	2	1.50	10.00	3.00	"E 36TH St N"	REPLACE	6" LETTERS
					COT 608A	48 x 6	2				"N 125TH E AVE"	REPLACE	6" LETTERS
					R1-1	30 x 30	6.25				"STOP"	NEW SIGN	
							200	48	320	96			

SUMMARY OF SURFACING QUANTITIES

SHEET NO	STATION, CL	TYPE '1' AC PATCH BEFORE OVERLAY (TYPICAL 2 & 3)				MILLING AND OVERLAY (TYPICAL 1, TRANSITION MILL)						
		SPEC - TYPE '1' AC PATCH	202A - UNCLASSIFIED EXCAVATION	310B - SUBGRADE METHOD 'B'	325 - SEPARATOR FABRIC	303A - TYPE 'A' AGG BASE	303A - TYPE 'A' AGG BASE (SAFETY EDGE)	312 - COLD MILLING (TRANSITION TO EX. PVMT)	409A - FABRIC REINFORCEMENT TENSAT GF-50	TACK COAT	411E - 1" SUPERPAVE, TYPE S6 (PG84-22) (LEVELING COURSE)	411C - 2" SUPERPAVE, TYPE S4 (PG 70-28 OK) (OVERLAY)
12	E. 36TH ST. N., 100+00 TO 105+00	153	283	817	817	283	35	427	1,761	533	49	197
12	E. 36TH ST. N., 105+00 TO 110+00	17	35	96	96	35	38	--	1,504	487	42	168
13	E. 36TH ST. N., 110+00 TO 115+00	25	52	143	143	52	35	--	1,519	496	43	170
13	E. 36TH ST. N., 115+00 TO 120+00	78	149	424	424	149	30	--	1,530	499	43	171
14	E. 36TH ST. N., 120+00 TO 125+00	47	86	249	249	86	47	--	1,671	512	47	187
14	E. 36TH ST. N., 125+00 TO 130+00	125	233	671	671	233	36	39	2,079	633	58	233
15	E. 36TH ST. N., 130+00 TO 135+00	6	13	35	35	13	42	326	2,124	637	59	238
15	E. 36TH ST. N., 135+00 TO 140+00	--	--	--	--	--	55	--	1,695	508	47	190
16	E. 36TH ST. N., 140+00 TO 145+32	32	64	179	179	64	41	88	1,755	536	49	197
16	N. 129TH E. AVE., 200+32 TO 201+34	--	--	--	--	--	13	100	373	112	10	42
16	N. 129TH E. AVE., 201+64 TO 203+00	99	192	543	543	192	--	--	479	144	13	54
16	INCIDENTAL, 203+00 TO 203+50	33	64	179	179	64	--	92	156	47	4	18
TOTAL		615	1,171	3,336	3,336	1,171	372	1,072	16,646	5,144	464	1,865

* = TYPE 1 AC PATCH INCLUDES SAW CUTTING, REMOVAL OF EXISTING ASPHALT FULL-DEPTH, TYPE S3 ASPHALTIC CONCRETE COMPLETE, TACK COAT, AND SEALING OF EDGES (SEE PAY ITEM NOTE S-21). TYPE S3 WAS CALCULATED WITH 7-INCH THICKNESS AND THE WIDTH IS 1' BEYOND SHOULDER.

SUMMARY OF STRIPING QUANTITIES

SHEET NO.	STATION, CL	TRAFFIC STRIPE (PLASTIC) (4" WIDE) (WHITE)	TRAFFIC STRIPE (PLASTIC) (4" WIDE) (YELLOW)	TRAFFIC STRIPE (PLASTIC) (8" WIDE) (YELLOW)	PAVEMENT MARKING REMOVAL (24" WIDE) (WHITE)	TRAFFIC STRIPE (PLASTIC) (24" WIDE) (WHITE)	TRAFFIC STRIPE (PLASTIC) (ARROW) (WHITE)	TRAFFIC STRIPE (PLASTIC) (WORD) (WHITE)
		LF	LF	LF	LF	LF	EA	EA
		18	E. 36TH ST. N., 100+00 TO 105+00	1,002	1,000	--	--	--
18	E. 36TH ST. N., 105+00 TO 110+00	1,000	1,000	--	--	--	--	--
19	E. 36TH ST. N., 110+00 TO 115+00	1,000	1,000	--	--	--	--	--
19	E. 36TH ST. N., 115+00 TO 120+00	1,000	1,000	--	--	--	--	--
20	E. 36TH ST. N., 120+00 TO 125+00	1,000	1,387	51	--	--	--	--
20	E. 36TH ST. N., 125+00 TO 130+00	1,133	1,718	242	--	1	--	--
21	E. 36TH ST. N., 130+00 TO 135+00	1,128	1,381	268	26	40	2	--
21	E. 36TH ST. N., 135+00 TO 140+00	1,000	1,353	59	--	--	--	--
22	E. 36TH ST. N., 140+00 TO 145+32	935	862	--	--	29	--	--
22	N. 129TH E. AVE., 200+00 TO 201+33	278	198	--	--	13	--	--
22	N. 129TH E. AVE., 201+67 TO 203+00	290	198	--	--	12	--	--
TOTAL		9,766	11,097	620	26	94	3	--



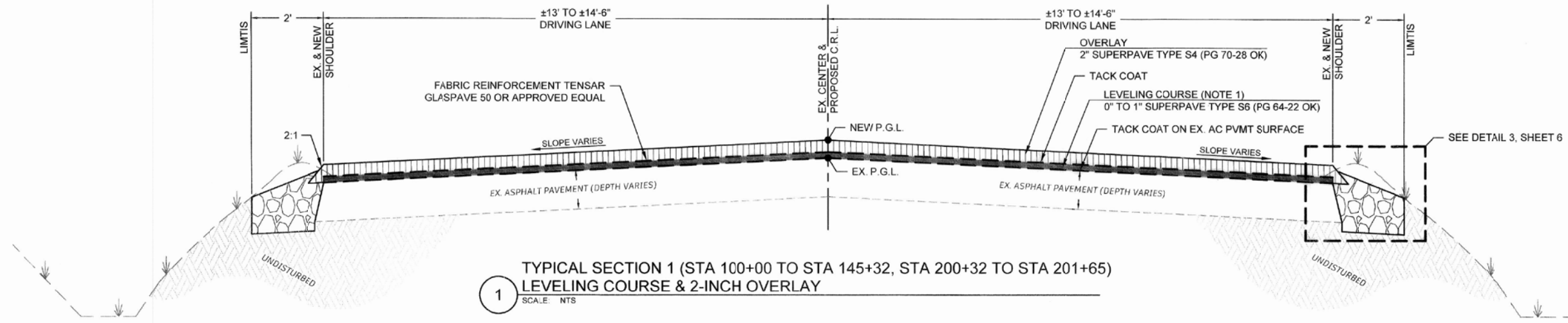
SUMMARY TABLES

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

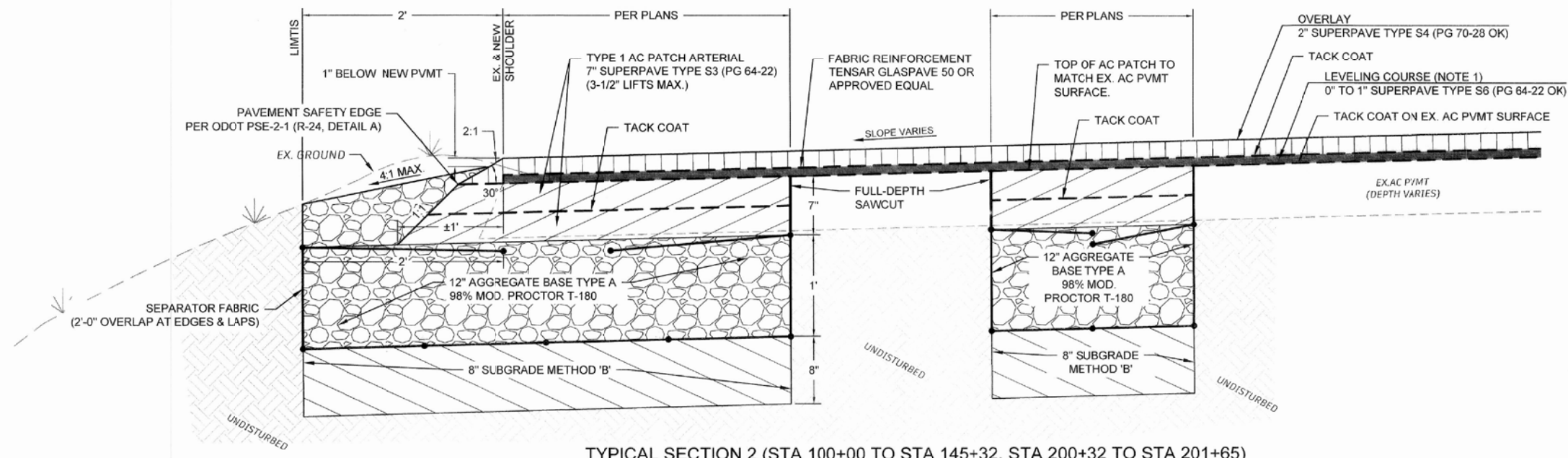
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
1"	N/A		DESIGNED	DAK	01-30-2023		
			SURVEY	JRL	12-06-2022		
PROFILE SCALE			PROJECT MGR		11-8-21		
HORIZONTAL:			LEAD ENGINEER		3/26		
1"	N/A		FIELD MGR		3/26		
VERTICAL:			RECOMMENDED:				
1"	N/A		DESIGN MANAGER		HAS 3-26		
FILE:							
ATLAS PAGE NO:	226, 289, 290, 291						DATE: SEPTEMBER 6, 2023
							SHEET 04 OF 22 SHEETS



1 TYPICAL SECTION 1 (STA 100+00 TO STA 145+32, STA 200+32 TO STA 201+65)
LEVELING COURSE & 2-INCH OVERLAY
SCALE: NTS



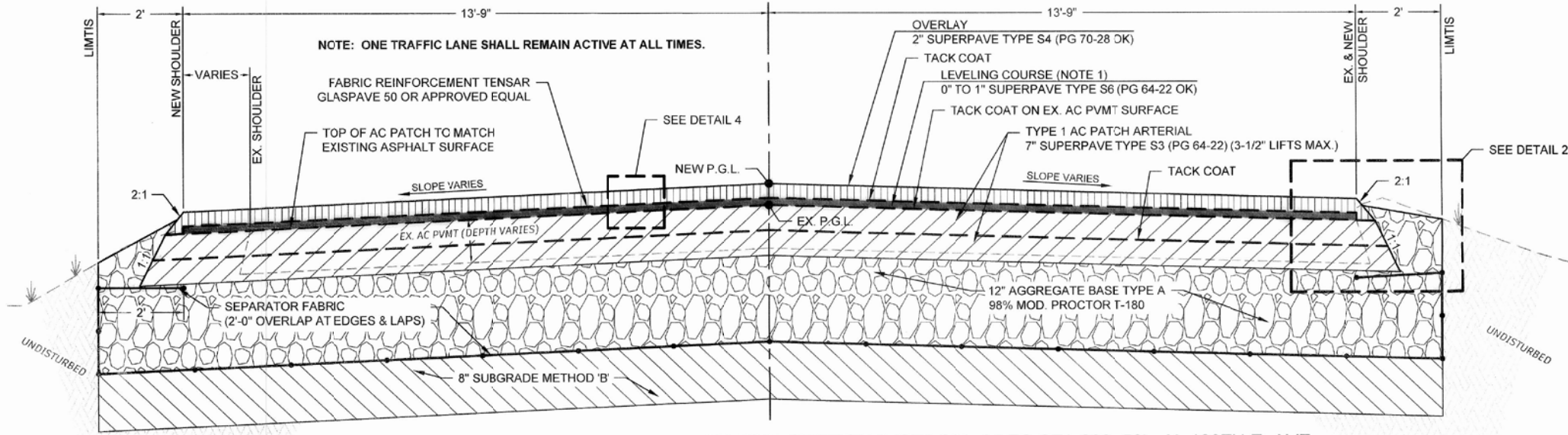
2 TYPICAL SECTION 2 (STA 100+00 TO STA 145+32, STA 200+32 TO STA 201+65)
TYPE 1 AC PARTIAL LANE PATCH W/ LEVELING COURSE & 2" OVERLAY
SCALE: 1" = 8"

NOTES:
1. SUPERPAVE TYPE S6 LEVELING COURSE SHALL BE USED AT THE DISCRETION OF THE FIELD ENGINEER PRIOR TO PLACING FABRIC REINFORCEMENT AND MAY BE OMITTED IN ITS ENTIRETY.

4 PAVEMENT DETAIL
SCALE: NTS

LINE TYPE LEGEND

- TACK COAT
- - - FABRIC REINFORCEMENT
- SEPARATOR FABRIC

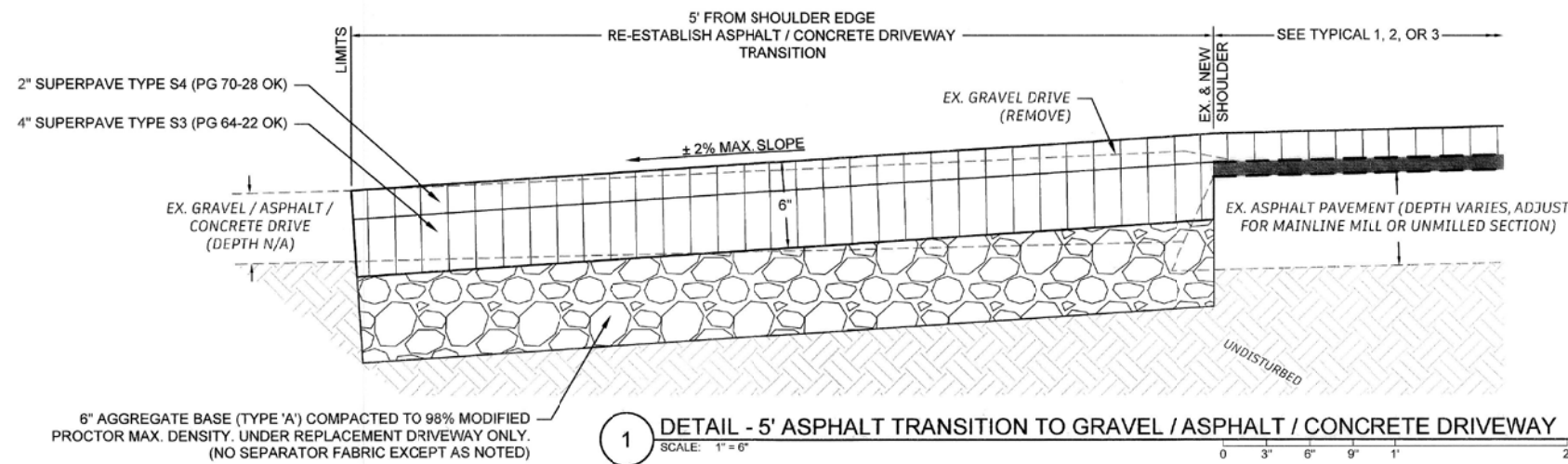


3 TYPICAL SECTION 3 (STA 201+65 TO STA 203+56) - N. 129TH E. AVE.
FULL LANE FULL DEPTH RECONSTRUCTION
SCALE: NTS

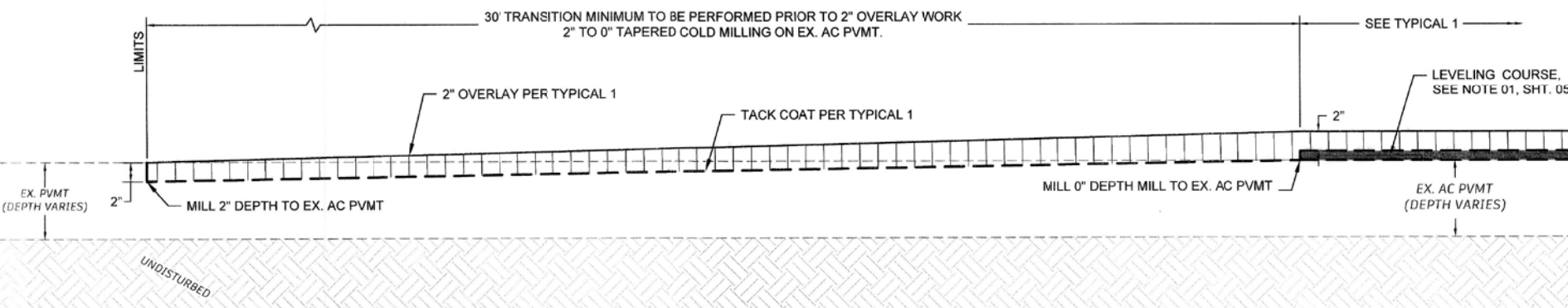


REVISION		BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
				1" = N/A	DESIGNED	DAK	01-30-2023	
					SURVEY	JRL	12-06-2022	
					PROJECT MGR			
					LEAD ENGINEER			
					FIELD MGR			
					RECOMMENDED			
					DESIGN MANAGER			

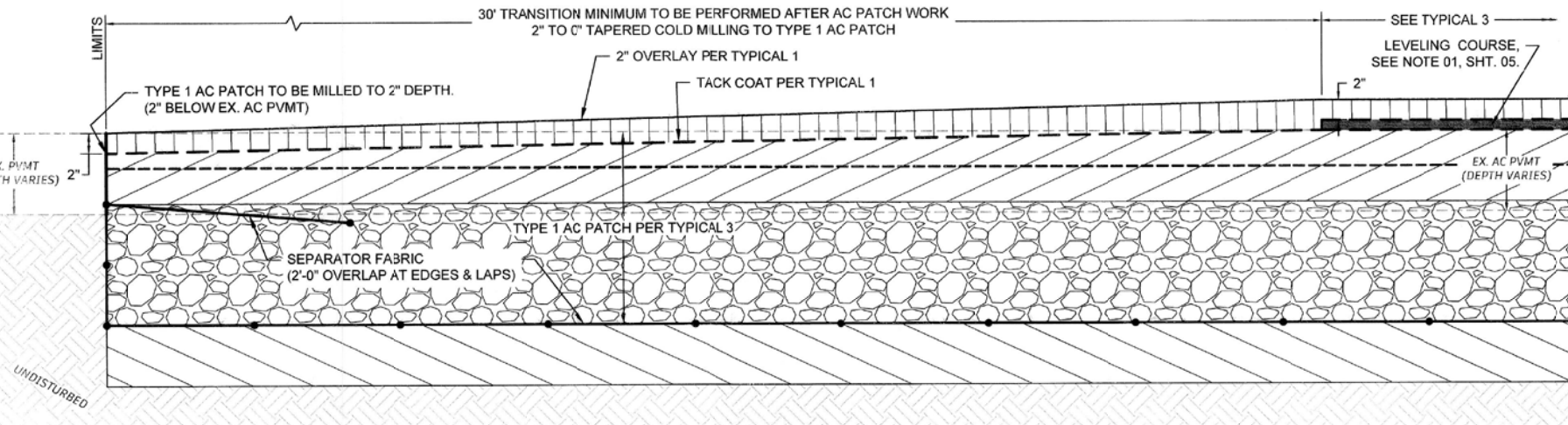
FILE: DATE: SEPTEMBER 6, 2023
ATLAS PAGE NO: 226, 289, 290, 291 SHEET 05 OF 22 SHEETS



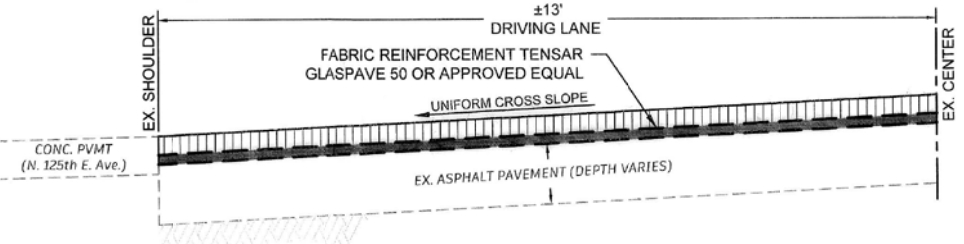
1 DETAIL - 5' ASPHALT TRANSITION TO GRAVEL / ASPHALT / CONCRETE DRIVEWAY
SCALE: 1" = 6"



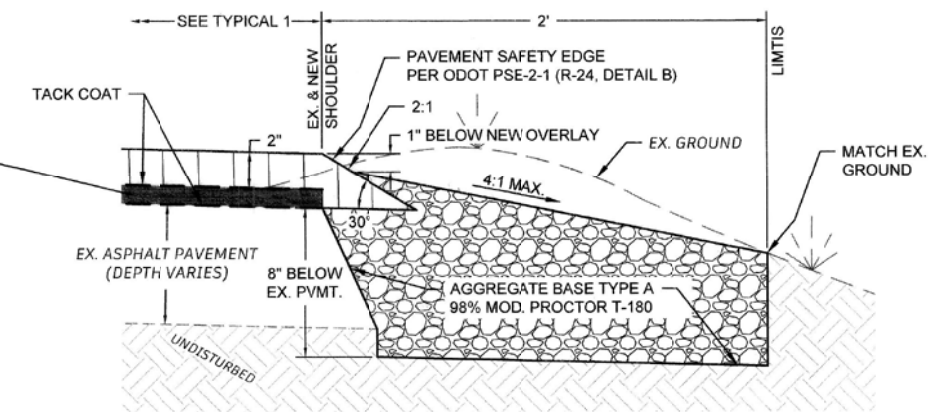
2 DETAIL - TRANSITION FROM EX. PAVEMENT TO 2" OVERLAY
SCALE: 1" = 8"



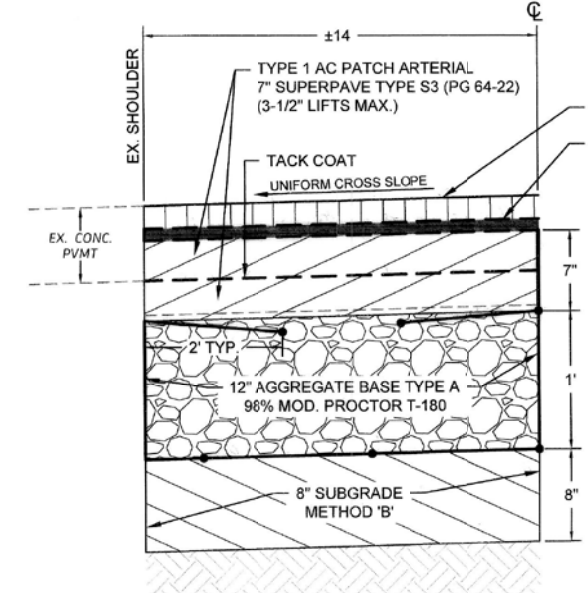
4 DETAIL - TRANSITION FROM EX. PAVEMENT TO TYPE 1 AC PATCH
SCALE: 1" = 8"



6 DETAIL - TRANSITION FROM ASPHALT PAVEMENT TO CONCRETE PAVEMENT (N. 125th E. Ave.) @ STA 131+33
SCALE: NTS



3 DETAIL - SAFETY EDGE (ODOT DETAIL B)
SCALE: NTS



5 TRANSITION FROM ASPHALT PAVEMENT TO CONCRETE PAVEMENT @ STA 100+87
SCALE: NTS



REVISION		BY	DATE

PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
1" = N/A	DESIGNED	DAK	01-30-2023	
	SURVEY	JRL	12-08-2022	
PROFILE SCALE	PROJECT MGR	JL	1-1-24	
HORIZONTAL:	LEAD ENGINEER			
1" = N/A	FIELD MGR			
VERTICAL:	RECOMMENDED:			
1" = N/A	DESIGN MANAGER	HAS	3-26	
FILE:				
ATLAS PAGE NO:	226, 289, 290, 291			

PAVEMENT DETAILS

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

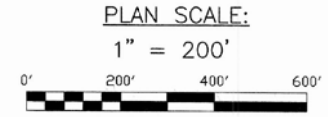
Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8506 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

Loisel
CITY ENGINEER

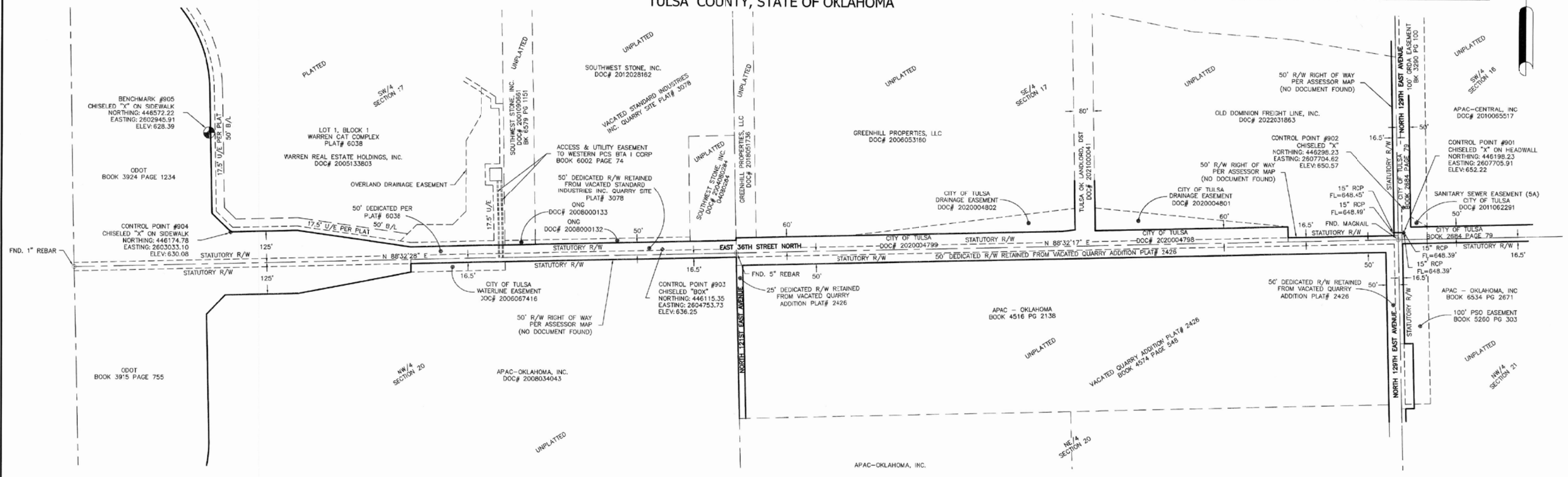
DATE: SEPTEMBER 6, 2023
SHEET 06 OF 22 SHEETS

SURVEY DATA SHEET

OF
EAST 36TH STREET NORTH
FROM: GARNETT RD. TO 129TH E. AVE
TULSA COUNTY, STATE OF OKLAHOMA

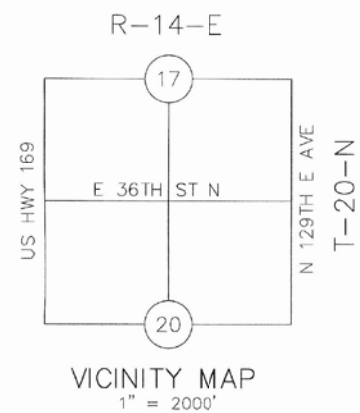


REFERENCED ADS CONTROL DATA	
ADS STATION NAME: 9	ADS STATION NAME: 25
HORIZ. CONTROL: OKLAHOMA NORTH ZONE 3501, NAD83(1993) NORTHING = 440902.419 EASTING = 2613163.370	HORIZ. CONTROL: OKLAHOMA NORTH ZONE 3501, NAD83(1993) NORTHING = 440888.515 EASTING = 2602472.097
VERT. CONTROL: NAVD 1988 ELEVATION = 661.216	VERT. CONTROL: NAVD 1988 ELEVATION = 616.682
DESC: 1-1/2" ALUMINUM CAP SET IN CONC. STAMPED '9', SET S.E. OF THE INTERSECTION OF APACHE ST. & 145TH E. AVE. 66.50' S.W. TO 60D NAIL IN NORTH POLE FACE 47.50' N.W. TO CENTER OF MANHOLE	DESC: 1-1/2" ALUMINUM CAP SET IN CONC. STAMPED '26', SET S.E. OF THE INTERSECTION OF APACHE ST. & 145TH E. AVE. 52.00' E.N.E. TO 60D NAIL IN CORNER POST 45.90' N.E. TO 60D NAIL IN SOUTHERNMOST GUARDRAIL POST



GENERAL NOTES

- NO CURRENT TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE WAS PROVIDED TO THE SURVEYOR, THEREFORE, NO CERTIFICATION IS MADE OR IMPLIED THAT ALL EASEMENTS, DEDICATIONS OR ENCUMBRANCES ARE SHOWN OR NOTED HEREON.
- DATE OF LAST FIELD VISIT: NOVEMBER 17, 2022.
- BASIS OF BEARING SHOWN HEREON BEING THE SOUTH LINE OF THE SW/4, SECTION 17, T-20-N, R-14-E, TULSA COUNTY, OKLAHOMA.
- THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES AND MAKES NO CERTIFICATION THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.



HORIZONTAL CONTROL DATUM - OKLAHOMA STATE PLANE COORDINATE SYSTEM, NAD '83, OKLAHOMA NORTH ZONE, ZONE 3501.

VERTICAL CONTROL DATUM - NAVD '88

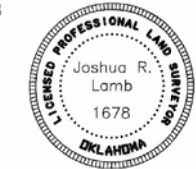
CONTROL POINTS

PNT#	NORTHING	EASTING	ELEVATION	DESCRIPTION
901	446198.23	2607705.91	652.22	CHISELED "X"
902	446298.24	2607704.62	650.57	CHISELED "X"
903	446115.35	2604753.73	636.25	CHISELED BOX
904	446174.75	2603033.10	630.08	CHISELED "X"
905	446572.22	2602945.91	628.39	CHISELED "X"

BENCHMARK #905
CHISELED "X" ON SIDEWALK SHOWN HEREON.
NORTHING: 446,572.22'
EASTING: 2,602,945.91'
ELEV. = 628.39' (NAVD 88)

I, JOSHUA R. LAMB, HEREBY STATE THAT THE SURVEY SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Joshua R. Lamb
JOSHUA R. LAMB
OKLAHOMA PLS. NO. 1678
09/06/2023



LEGEND

	ASPHALT		GUY WIRE
	CONCRETE		TELEPHONE UNDERGROUND MARKER
	GRAVEL		TELEPHONE PEDESTAL
	UNDERGROUND TELEPHONE		SIGN
	UNDERGROUND SANITARY SEWER		MAIL BOX
	UNDERGROUND GAS		GAS METER
	UNDERGROUND CABLE		FIBER OPTIC PEDESTAL
	UNDERGROUND WATER		TRAFFIC SIGNAL POLE
	UNDERGROUND STORM SEWER		ELECTRIC METER
	OVERHEAD ELECTRIC		LIGHT POLE
	FENCE		TRAFFIC JUNCTION BOX
	WATER VALVE		CABLE TV UNDERGROUND MARKER
	WATER METER		BOLLARD/FENCE POST
	FIRE HYDRANT		SANITARY SEWER MANHOLE
	SHRUB		GAS VALVE
	DECIDUOUS TREE		STORM SEWER MANHOLE
	CONIFEROUS TREE		FOUND MONUMENTS
	POWER POLE		SET MONUMENTS



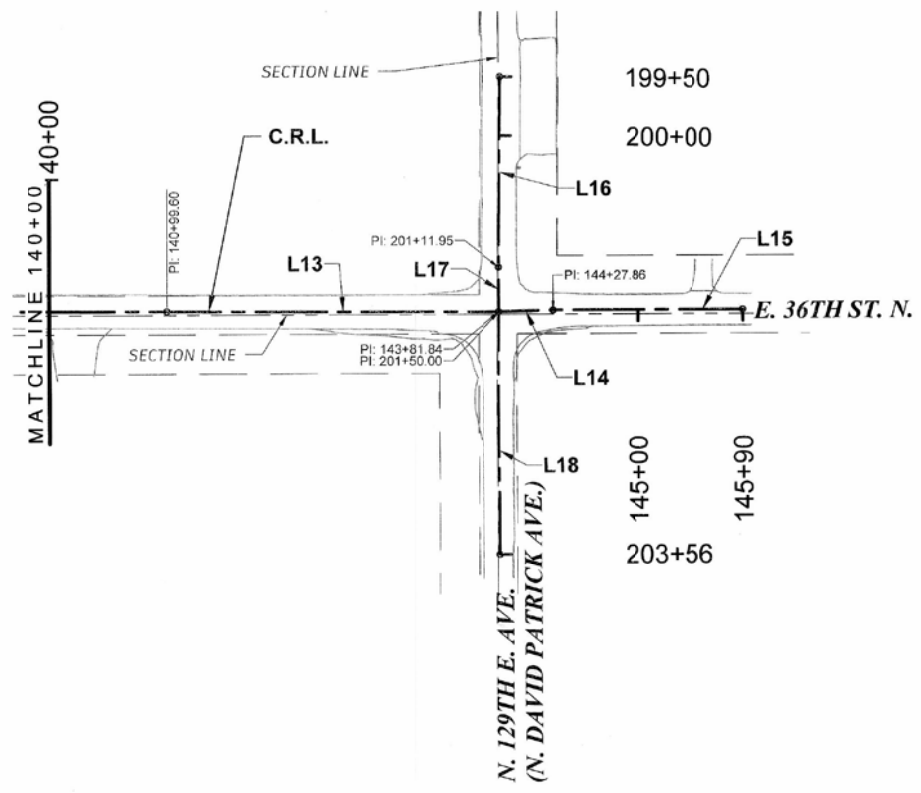
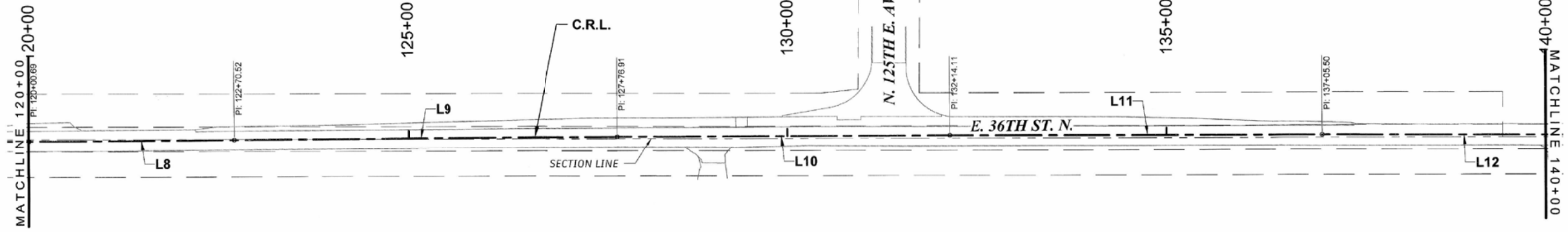
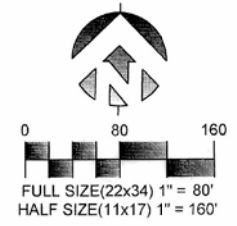
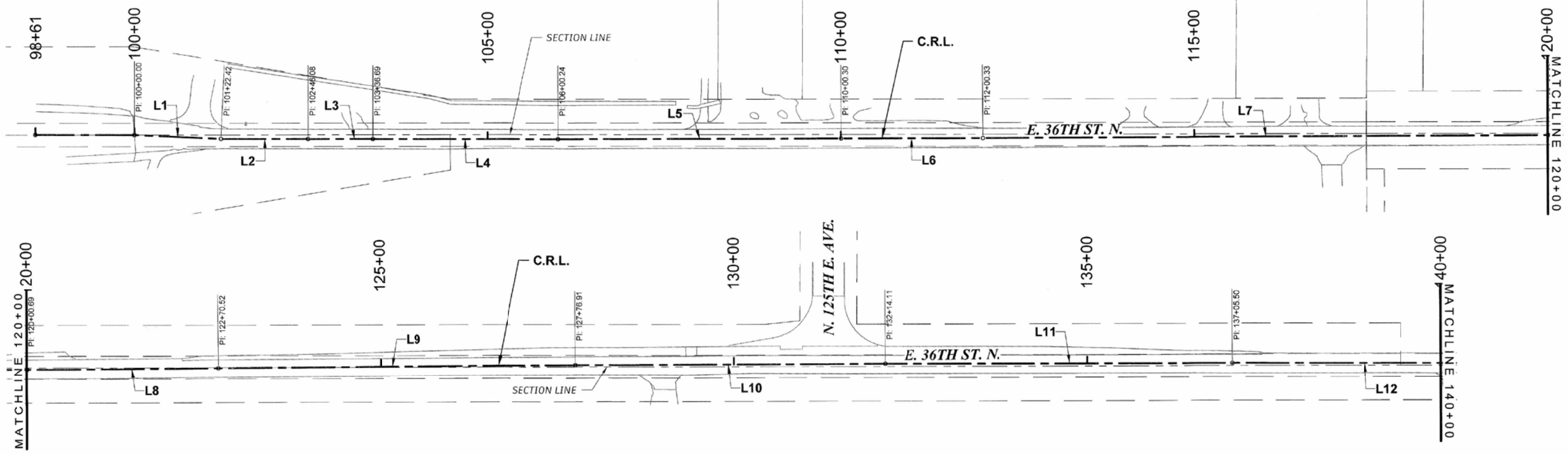
SURVEY DATA SHEET

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 200'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR	JRL	9-23	
			HORIZONTAL:	LEAD ENGINEER	JRL	10/23	
			1" = N/A	FIELD MGR	JRL	10/23	
			VERTICAL:	RECOMMENDED:	JRL	9-24	
			1" = N/A	DESIGN MANAGER	JRL	9-24	
			FILE:				
			ATLAS PAGE NO:	226, 289, 290, 291			DATE: SEPTEMBER 6, 2023
							SHEET 07 OF 22 SHEETS



ALIGNMENT TABLE						
NUMBER	LENGTH	LINE/CHORD DIRECTION	START N/E	END N/E	START STATION	END STATION
L1	122.42'	S88° 52' 12.28"E	446058.19, 2603306.16	446055.78, 2603428.56	100+00.00	101+22.42
L2	123.66'	N88° 43' 52.38"E	446055.78, 2603428.56	446058.52, 2603552.19	101+22.42	102+46.08
L3	90.61'	N88° 37' 59.21"E	446058.52, 2603552.19	446060.68, 2603642.77	102+46.08	103+36.69
L4	263.55'	N88° 37' 01.31"E	446060.68, 2603642.77	446067.04, 2603906.24	103+36.69	106+00.24
L5	400.06'	N88° 26' 44.97"E	446067.04, 2603906.24	446077.89, 2604306.15	106+00.24	110+00.30
L6	200.03'	N88° 26' 20.76"E	446077.89, 2604306.15	446083.34, 2604506.11	110+00.30	112+00.33
L7	800.36'	N88° 19' 44.64"E	446083.34, 2604506.11	446106.67, 2605306.13	112+00.33	120+00.69
L8	269.83'	N88° 11' 40.81"E	446106.67, 2605306.13	446115.18, 2605575.83	120+00.69	122+70.52
L9	506.39'	N88° 08' 26.48"E	446115.18, 2605575.83	446131.61, 2606081.95	122+70.52	127+76.91
L10	437.20'	N88° 22' 22.78"E	446131.61, 2606081.95	446144.02, 2606518.98	127+76.91	132+14.11
L11	491.38'	N88° 33' 29.84"E	446144.02, 2606518.98	446156.38, 2607010.21	132+14.11	137+05.50
L12	394.10'	N88° 38' 29.02"E	446156.38, 2607010.21	446165.73, 2607404.20	137+05.50	140+99.60
L13	282.24'	N88° 45' 00.34"E	446165.73, 2607404.20	446171.88, 2607686.37	140+99.60	143+81.84
L14	46.02'	N86° 43' 40.67"E	446171.88, 2607686.37	446174.51, 2607732.32	143+81.84	144+27.86
L15	161.84'	N88° 26' 18.60"E	446174.51, 2607732.32	446178.92, 2607894.10	144+27.86	145+89.70
L16	161.96'	S00° 54' 59.17"E	446371.86, 2607682.89	446209.92, 2607685.48	199+49.99	201+11.95
L17	38.05'	S01° 20' 15.15"E	446209.92, 2607685.48	446171.88, 2607686.37	201+11.95	201+50.00
L18	205.56'	S01° 27' 16.25"E	446171.88, 2607686.37	445966.39, 2607691.59	201+50.00	203+55.56



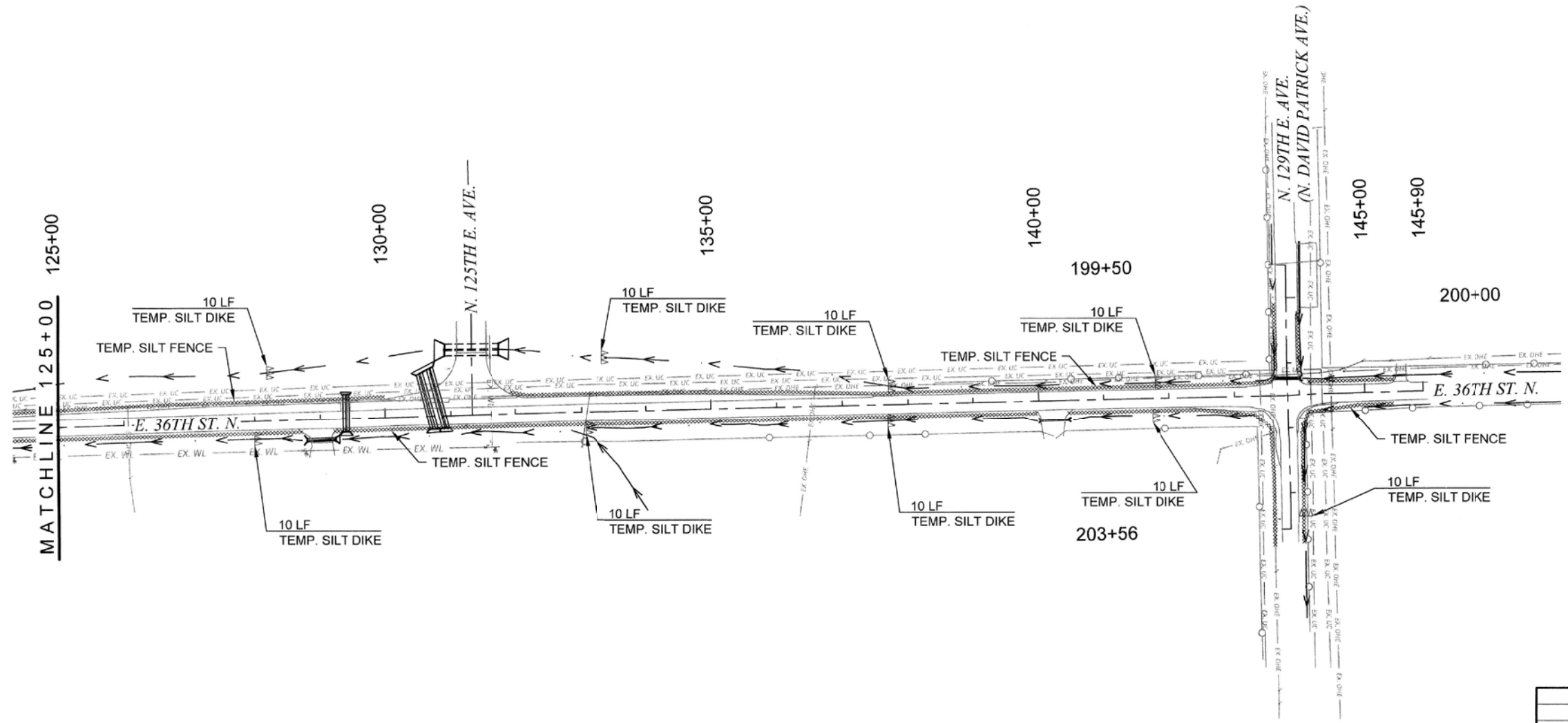
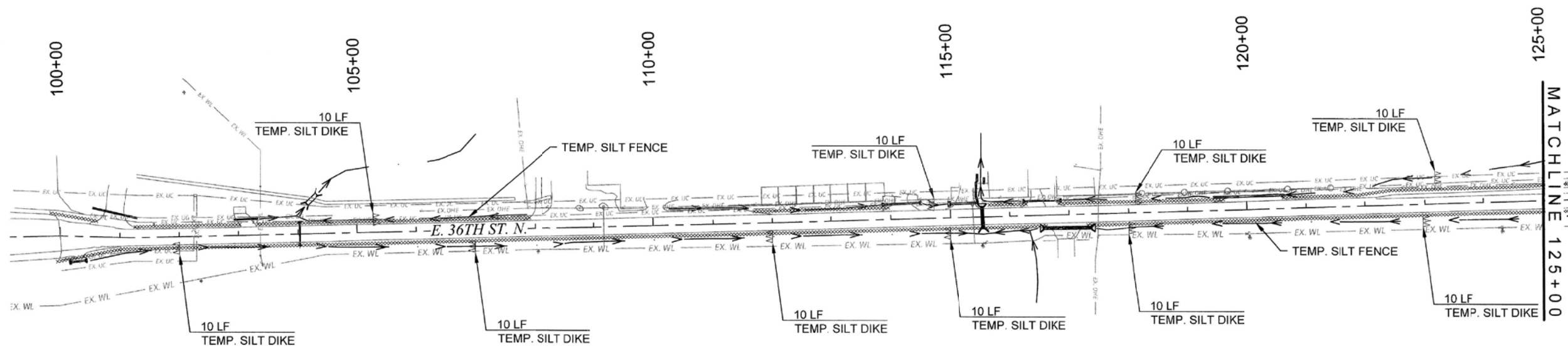
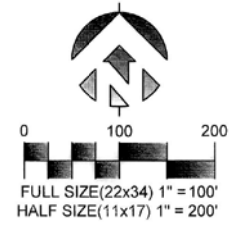
GEOMETRIC DATA

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 80'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR	WJ	9-23	
			HORIZONTAL:	LEAD ENGINEER	WJ	10/23	
			1" = N/A	FIELD MGR	WJ	10/23	
			VERTICAL:	RECOMMENDED	WJ	10/23	
			1" = N/A	DESIGN MANAGER	WJ	10/23	
			FILE:				
			ATLAS PAGE NO:	226, 288, 290, 291			
			DATE:	SEPTEMBER 5, 2023			
			SHEET:	08 OF 22 SHEETS			



EROSION CONTROL PLAN

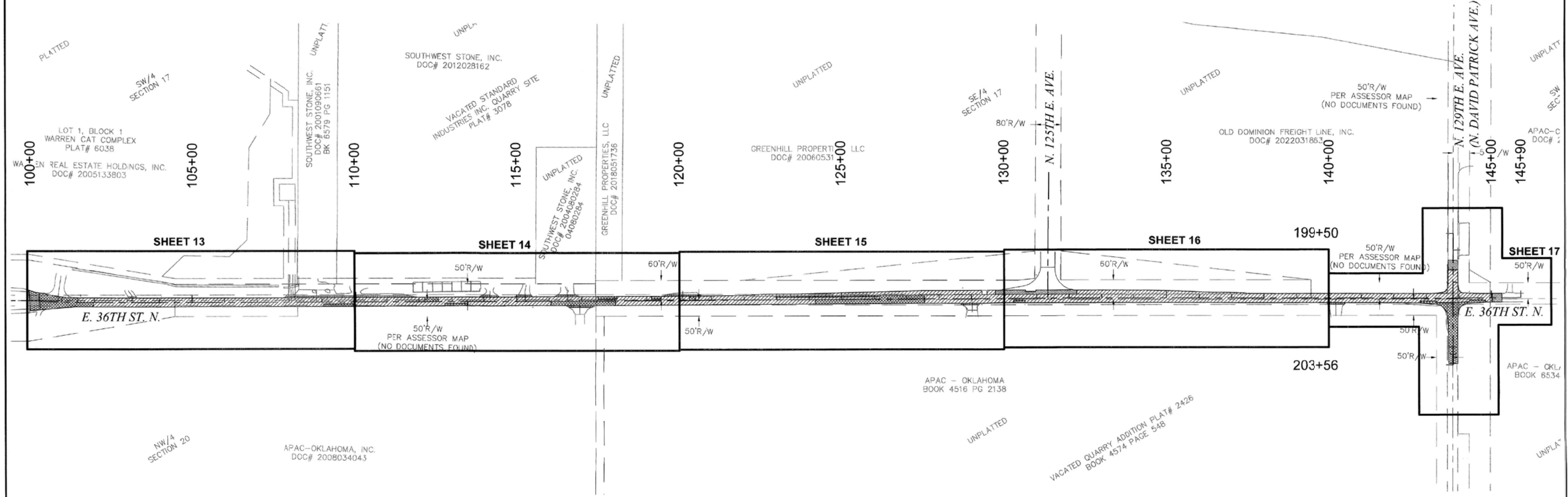
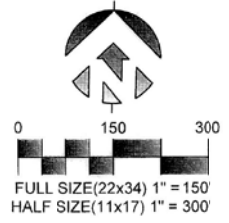
ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8555 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLH	01-30-2023	APPROVED:
			1" = 100'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR	WJL	9-23	
			HORIZONTAL:	LEAD ENGINEER	WJL	10/23	
			1" = N/A	FIELD MGR	WJL	10/23	
			VERTICAL:	RECOMMENDED	WJL	9-24	
			1" = N/A	DESIGN MANAGER	WJL	9-24	
			FILE:				CITY ENGINEER
			ATLAS PAGE NO. 226, 289, 290, 291				DATE: SEPTEMBER 6, 2023

WJL
CITY ENGINEER



LEGEND	
	2" OVERLAY (TYPICAL 1)
	TRANSITION MILL THEN 2" OVERLAY (DETAIL 2, SHEET 6)
	AC PATCH THEN 2" OVERLAY (TYPICAL 2 & 3)
	AC PATCH THEN TRANSITION MILL (DETAIL 4, SHEET 6)
	5' ASPHALT TRANSITIONS TO GRAVEL / ASPHALT DRIVEWAY (DETAIL 1, SHEET 6)



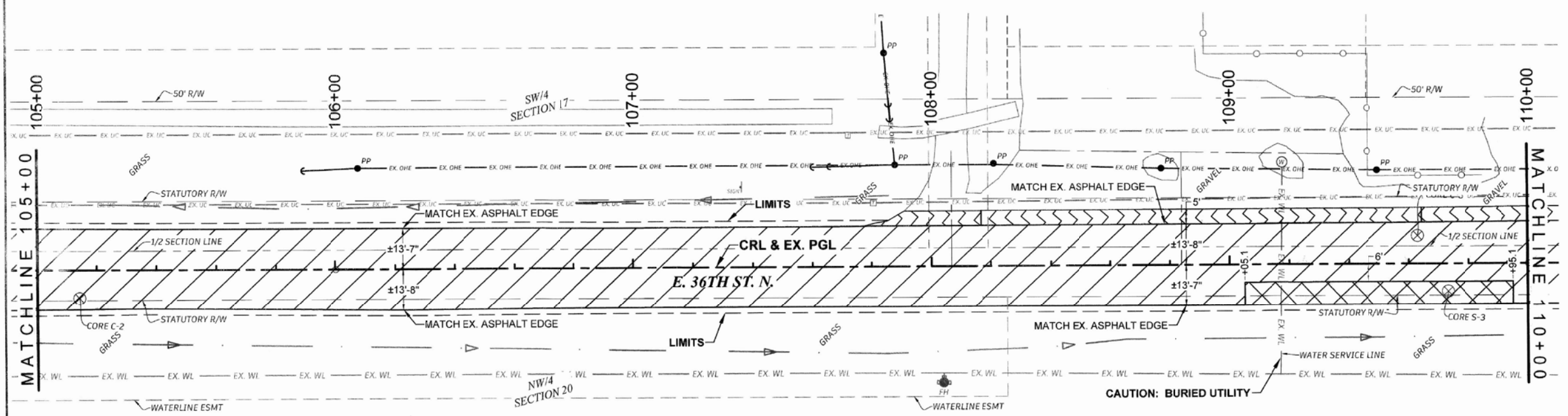
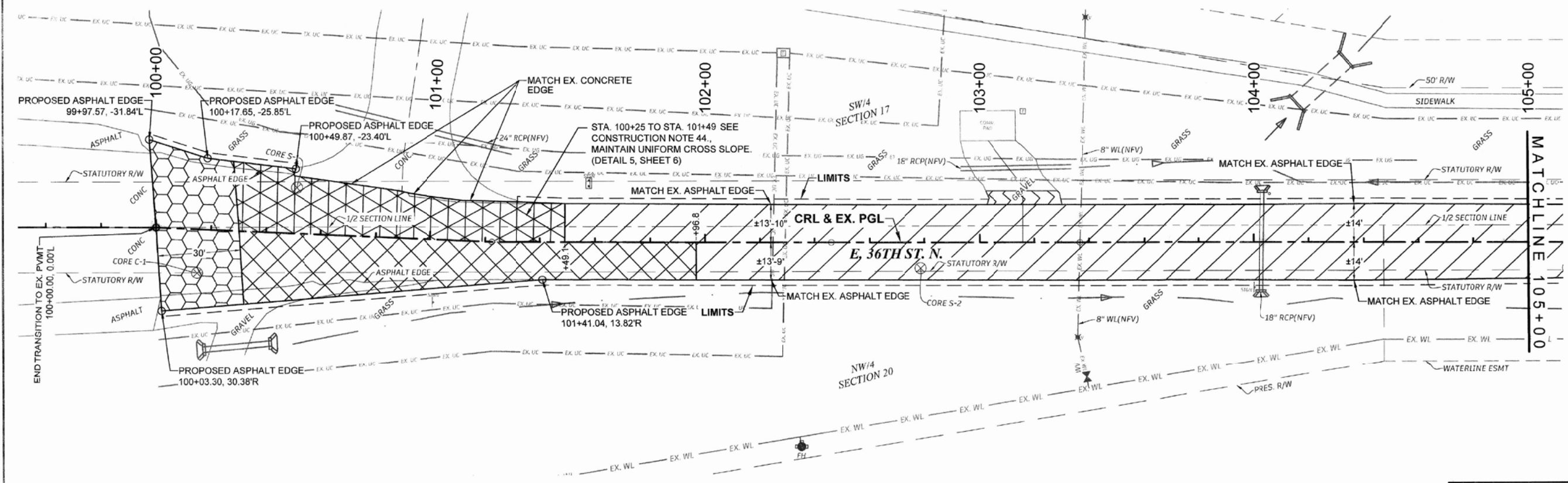
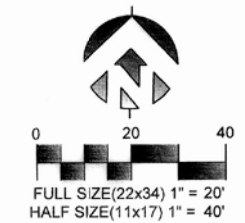
ROADWAY KEY MAP

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

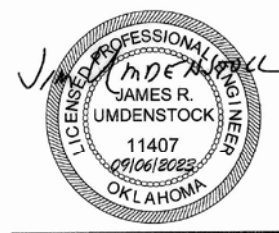
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

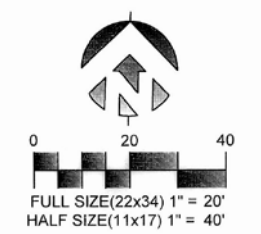
REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 150'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
				PROJECT MGR	DAK	9-23	
			PROFILE SCALE:	LEAD ENGINEER	DAK	10/23	CITY ENGINEER
			HORIZONTAL:	FIELD MGR	DAK	10/23	
			1" = N/A	RECOMMENDED:	DAK	9-27	
			VERTICAL:	DESIGN MANAGER	DAK	9-27	
			1" = N/A	FILE:			DATE: SEPTEMBER 6, 2023
				ATLAS PAGE NO:	226, 289, 290, 291		SHEET 11 OF 22 SHEETS








LEGEND	
	2" OVERLAY (TYPICAL 1)
	TRANSITION MILL THEN 2" OVERLAY (DETAIL 2, SHEET 6)
	AC PATCH THEN 2" OVERLAY (TYPICAL 2 & 3)
	AC PATCH THEN TRANSITION MILL (DETAIL 4, SHEET 6)
	5' ASPHALT TRANSITIONS TO GRAVEL / ASPHALT DRIVEWAY (DETAIL 1, SHEET 6)
	AC PATCH, THEN TRANSITION MILL, THEN 2" OVERLAY. (DETAIL 5, SHEET 6)



PLAN STA 100+00 TO 110+00						
ARTERIAL STREET REHABILITATION E. 36TH ST. N. (GARNETT TO 129TH) PROJECT NO. 2036A0039A & 2036A0056Z						
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT						
Plans and Estimates Prepared by: KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911						
REVISION	BY DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
		1" = 20'	DESIGNED	DAK	01-30-2023	
			SURVEY	JRL	12-06-2022	
		PROFILE SCALE	PROJECT MGR	JL	10-1-14	
		HORIZONTAL:	LEAD ENGINEER	JK	2/26	
		1" = N/A	FIELD MGR	JK	3/26	
		VERTICAL:	RECOMMENDED:	JK	3/26	
		1" = N/A	DESIGN MANAGER	JK	3/26	
		FILE:				
		ATLAS PAGE NO:	226, 285, 290, 291			
						CITY ENGINEER DATE: SEPTEMBER 6, 2023 SHEET 12 OF 22 SHEETS

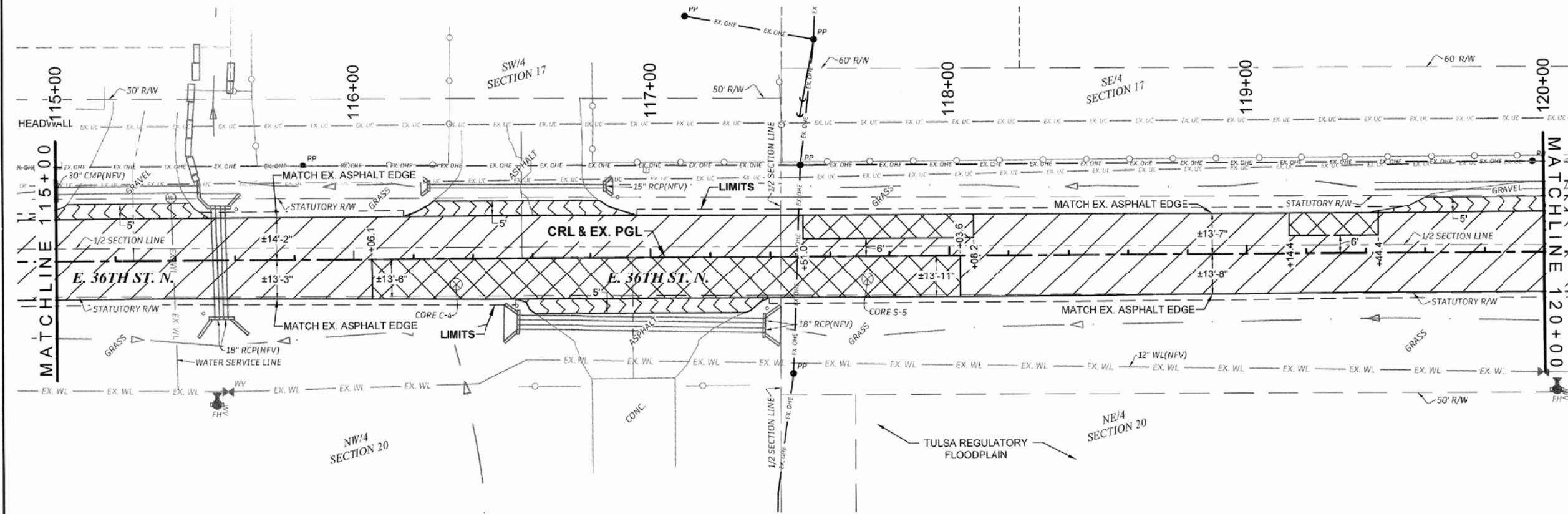
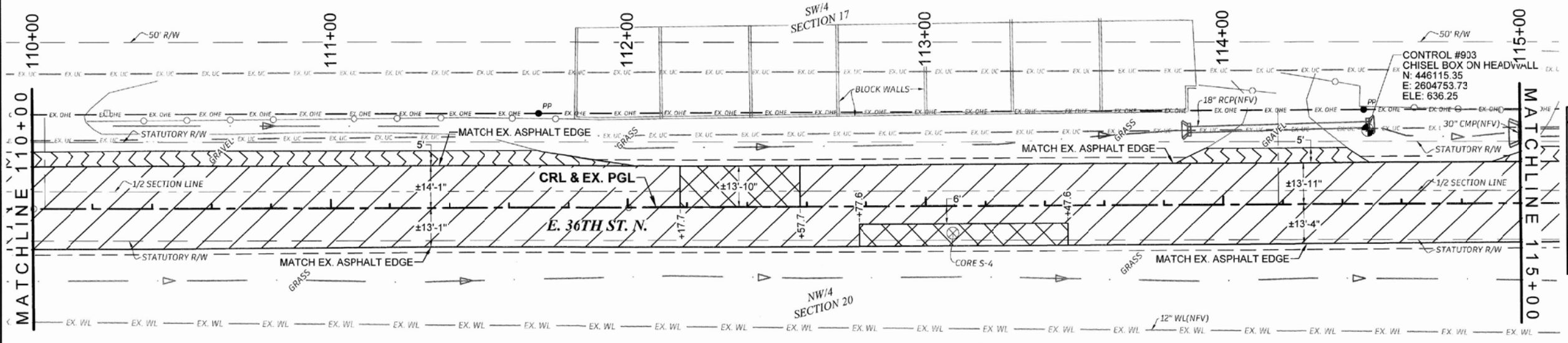


LEGEND

-  2" OVERLAY (TYPICAL 1)
-  TRANSITION MILL THEN 2" OVERLAY (DETAIL 2, SHEET 6)
-  AC PATCH THEN 2" OVERLAY (TYPICAL 2 & 3)
-  AC PATCH THEN TRANSITION MILL (DETAIL 4, SHEET 6)
-  5' ASPHALT TRANSITIONS TO GRAVEL / ASPHALT DRIVEWAY (DETAIL 1, SHEET 6)

CONTRACTOR SHALL CLEAR NORTH & SOUTH DITCHES BETWEEN STA 112+00 TO STA 158+00 TO ALLOW STORM WATER UNIMPEDED FLOW. COST INCLUDED IN URBAN RIGHT-OF-WAY RESTORATION.

TULSA REGULATORY SOUTH OF E. 36TH ST. N. STA 112+00 TO STA 138+00



PLAN
STA 110+00 TO 120+00

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

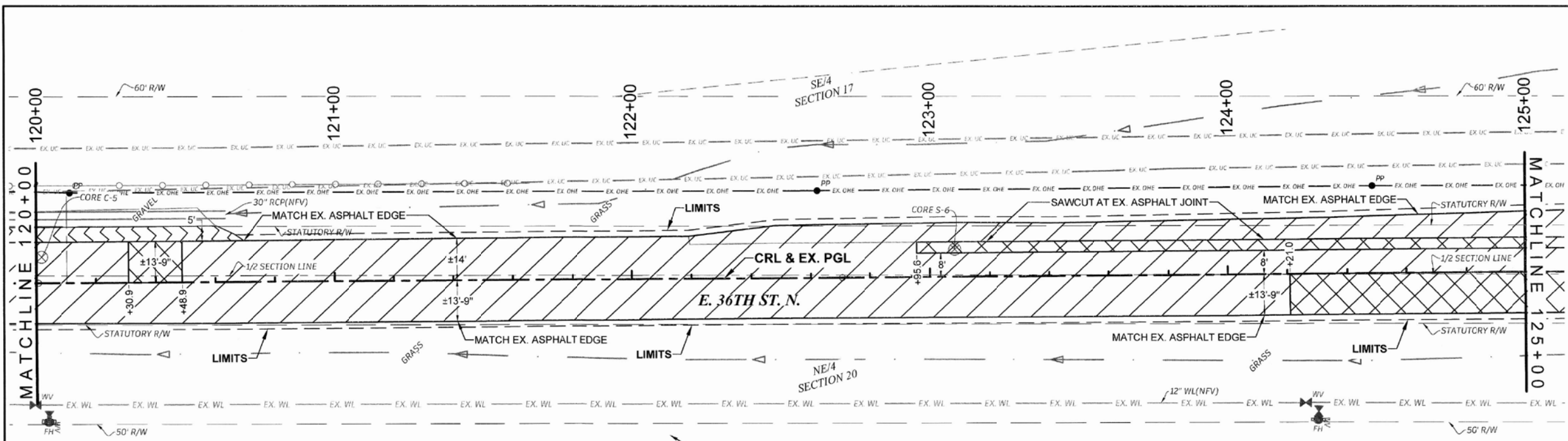
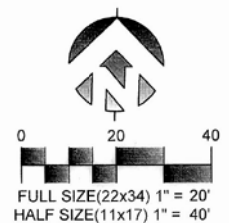
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 20'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR	AK	9-23	
			HORIZONTAL:	LEAD ENGINEER	AK	10/23	
			1" = N/A	FIELD MGR	AK	10/23	
			VERTICAL:	RECOMMENDED	AK	9-24	
			1" = N/A	DESIGN MANAGER			
			FILE:				
			ATLAS PAGE NO.:	226, 285, 290, 291			

J. Umdenstock
CITY ENGINEER

DATE: SEPTEMBER 6, 2023
SHEET 13 OF 22 SHEETS

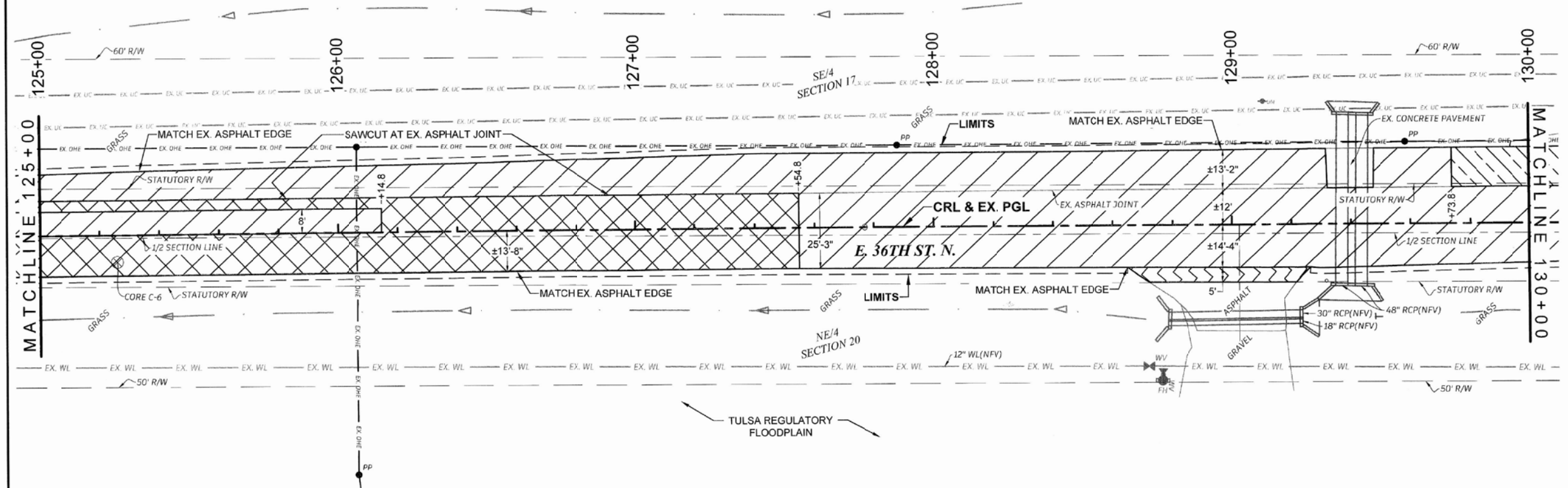


LEGEND

	2" OVERLAY (TYPICAL 1)
	TRANSITION MILL THEN 2" OVERLAY (DETAIL 2, SHEET 6)
	AC PATCH THEN 2" OVERLAY (TYPICAL 2 & 3)
	AC PATCH THEN TRANSITION MILL (DETAIL 4, SHEET 6)
	5' ASPHALT TRANSITIONS TO GRAVEL / ASPHALT DRIVEWAY (DETAIL 1, SHEET 6)

CONTRACTOR SHALL CLEAR NORTH & SOUTH DITCHES BETWEEN STA 112+00 TO STA 158+00 TO ALLOW STORM WATER UNIMPEDED FLOW. COST INCLUDED IN URBAN RIGHT-OF-WAY RESTORATION.

TULSA REGULATORY SOUTH OF E. 36TH ST. N. STA 112+00 TO STA 138+00



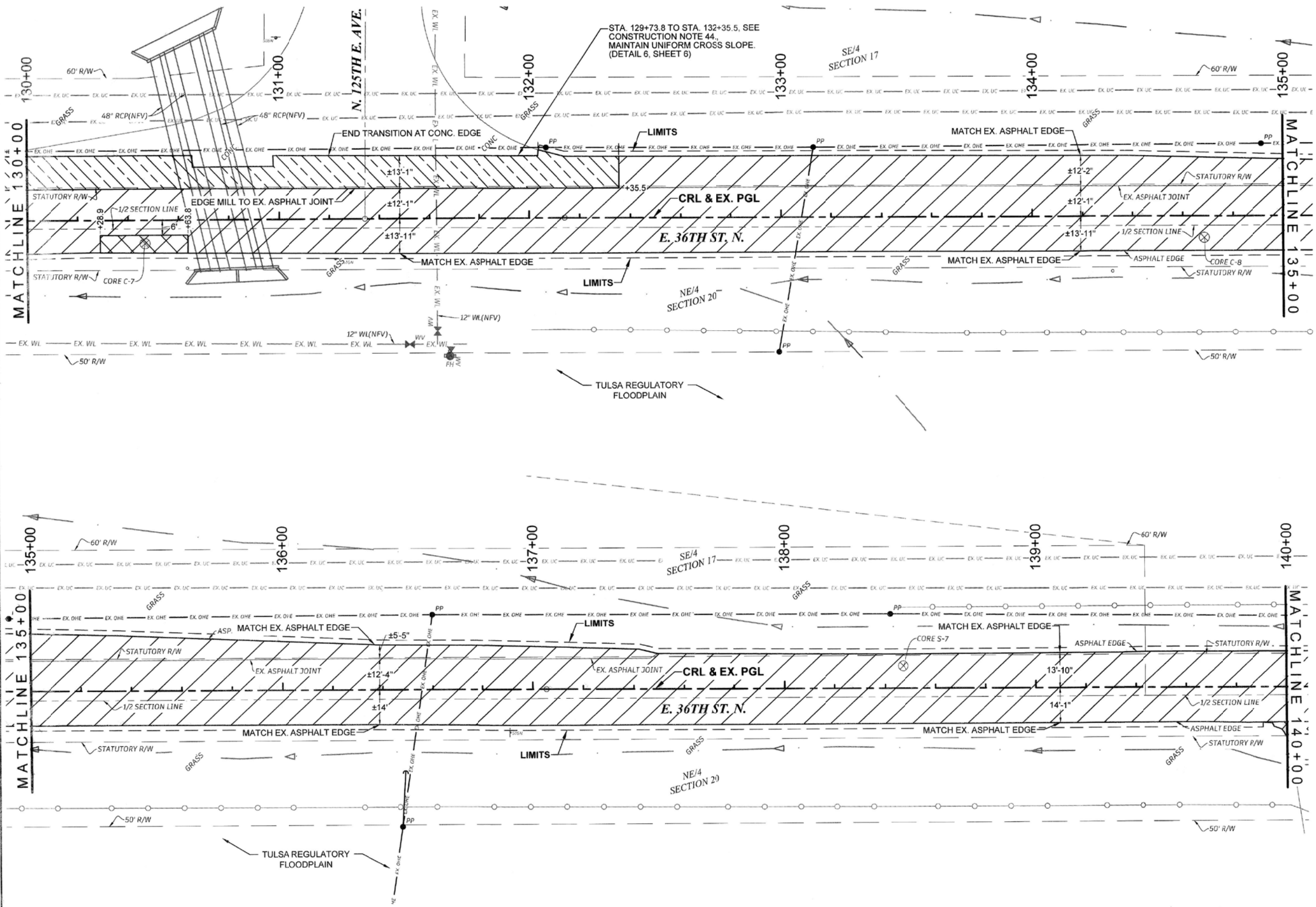
PLAN
STA 120+00 TO 130+00

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 20'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR	WJU	9-23	
			HORIZONTAL:	LEAD ENGINEER	WJU	9-23	
			1" = N/A	FIELD MGR	WJU	9-23	
			VERTICAL:	RECOMMENDED:	WJU	9-23	
			1" = N/A	DESIGN MANAGER	WJU	9-23	
			FILE:				
			ATLAS PAGE NO:	226, 289, 290, 291			DATE: SEPTEMBER 6, 2023
							SHEET 14 OF 22 SHEETS



LEGEND

- 2" OVERLAY (TYPICAL 1)
- TRANSITION MILL THEN 2" OVERLAY (DETAIL 2, SHEET 6)
- AC PATCH THEN 2" OVERLAY (TYPICAL 2 & 3)
- AC PATCH THEN TRANSITION MILL (DETAIL 4, SHEET 6)
- 5' ASPHALT TRANSITIONS TO GRAVEL / ASPHALT DRIVEWAY (DETAIL 1, SHEET 6)

CONTRACTOR SHALL CLEAR NORTH & SOUTH DITCHES BETWEEN STA 112+00 TO STA 158+00 TO ALLOW STORM WATER UNIMPEDED FLOW, COST INCLUDED IN URBAN RIGHT-OF-WAY RESTORATION.

TULSA REGULATORY SOUTH OF E. 36th ST. N. STA 112+00 TO STA 138+00



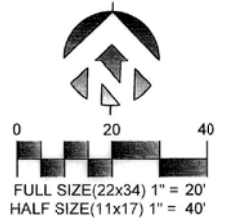
PLAN
STA 130+00 TO 140+00

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0055Z

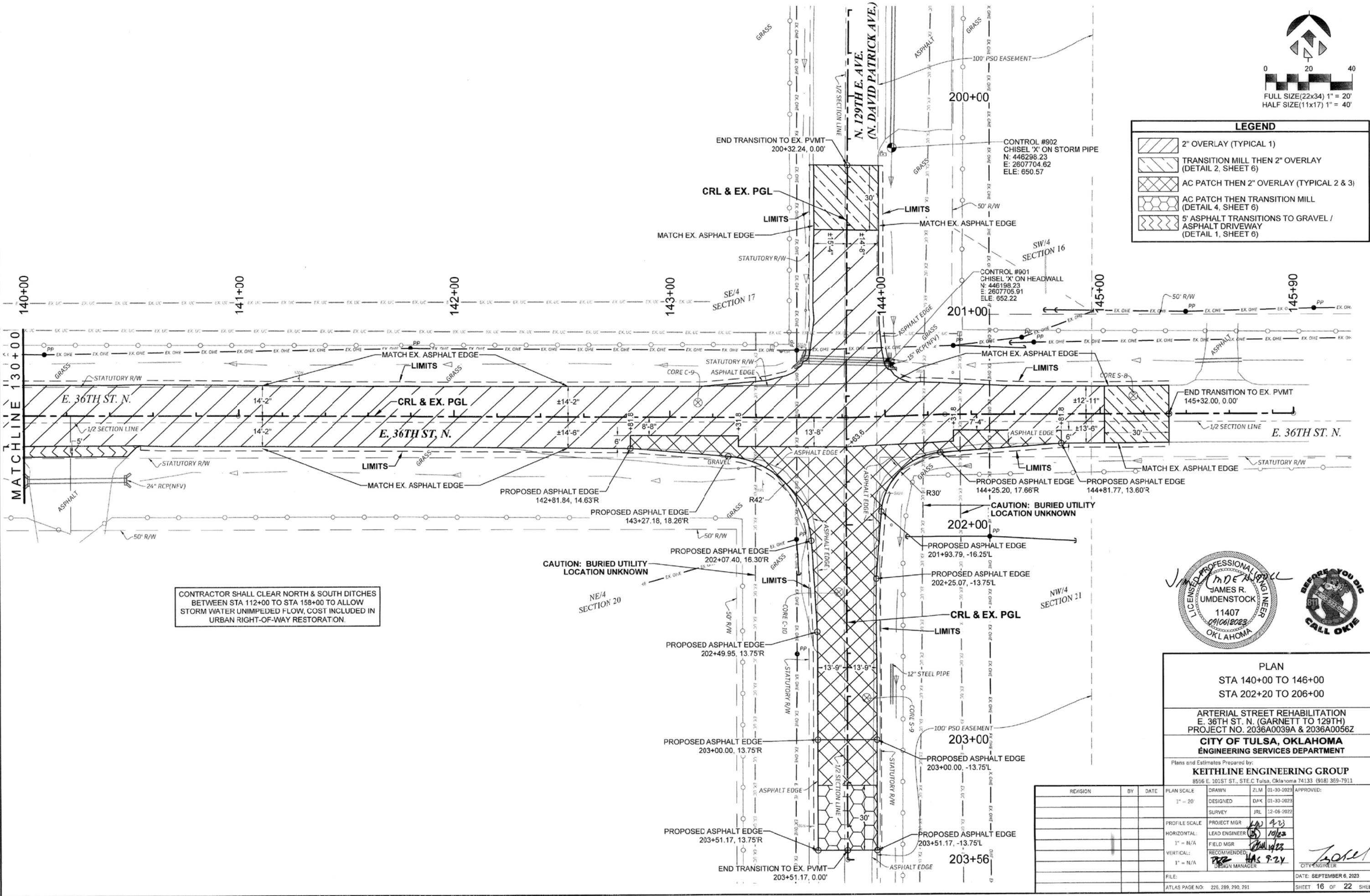
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 20'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-09-2022	
			PROFILE SCALE	PROJECT MGR	WJ	10-1-24	
			HORIZONTAL:	LEAD ENGINEER	EJG		
			VERTICAL:	FIELD MGR	WJ		
				RECOMMENDED:	WJ		
				DESIGN MANAGER	HAS	3-20	
			FILE:				DATE: SEPTEMBER 6, 2023
			ATLAS PAGE NO:	226, 289, 290, 291			SHEET 15 OF 22 SHEETS



LEGEND	
	2" OVERLAY (TYPICAL 1)
	TRANSITION MILL THEN 2" OVERLAY (DETAIL 2, SHEET 6)
	AC PATCH THEN 2" OVERLAY (TYPICAL 2 & 3)
	AC PATCH THEN TRANSITION MILL (DETAIL 4, SHEET 6)
	5' ASPHALT TRANSITIONS TO GRAVEL / ASPHALT DRIVEWAY (DETAIL 1, SHEET 6)



CONTRACTOR SHALL CLEAR NORTH & SOUTH DITCHES BETWEEN STA 112+00 TO STA 158+00 TO ALLOW STORM WATER UNIMPEDED FLOW, COST INCLUDED IN URBAN RIGHT-OF-WAY RESTORATION.



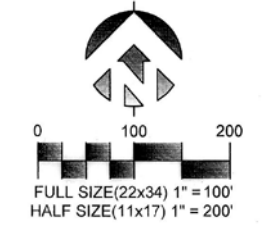
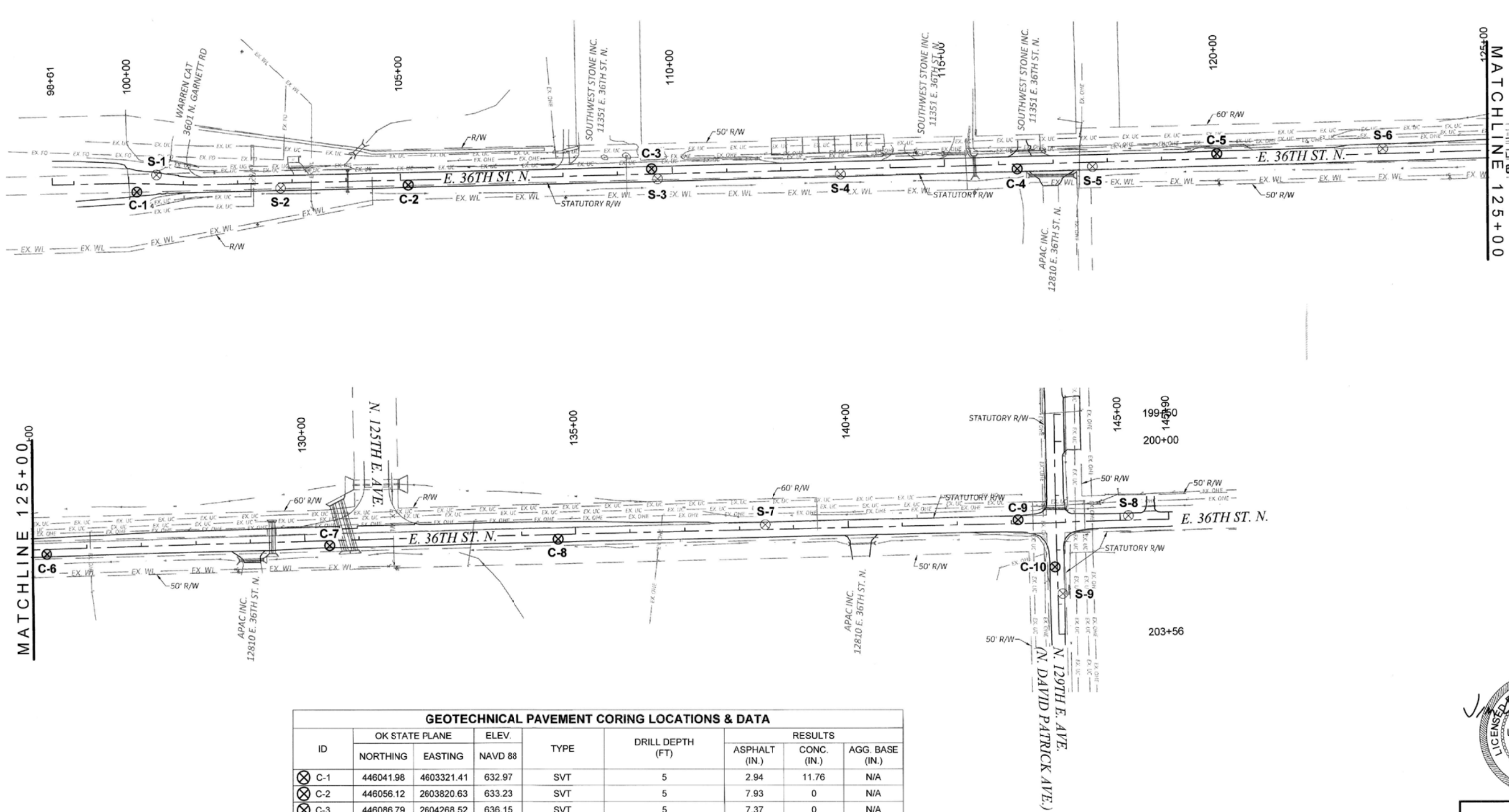
PLAN
 STA 140+00 TO 146+00
 STA 202+20 TO 206+00

ARTERIAL STREET REHABILITATION
 E. 36TH ST. N. (GARNETT TO 129TH)
 PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
 ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
 8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	ZLM	APPROVED:
			1" = 20'	DAK	01-30-2023
			DESIGNED	JRL	12-08-2022
			SURVEY		
			PROJECT MGR		
			LEAD ENGINEER		
			FIELD MGR		
			RECOMMENDED		
			DESIGN MANAGER		
			FILE:		DATE: SEPTEMBER 6, 2023
			ATLAS PAGE NO: 226, 289, 290, 291		SHEET 16 OF 22 SHEETS



MATCHLINE 125+00.00

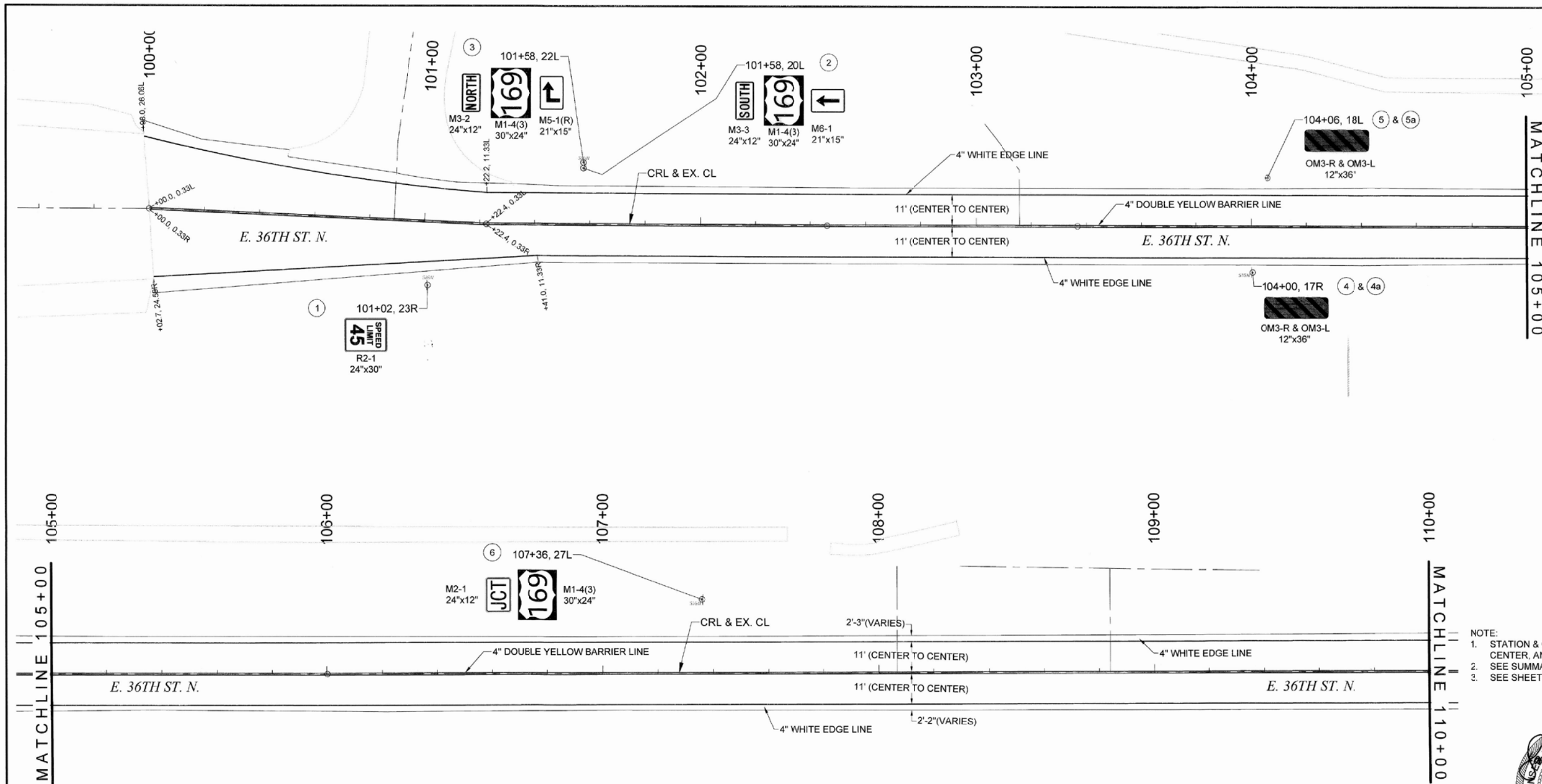
MATCHLINE 125+00


GEOTECHNICAL PAVEMENT CORING LOCATIONS & DATA								
ID	OK STATE PLANE		ELEV.	TYPE	DRILL DEPTH (FT)	RESULTS		
	NORTHING	EASTING				NAVD 88	ASPHALT (IN.)	CONC. (IN.)
⊗ C-1	446041.98	4603321.41	632.97	SVT	5	2.94	11.76	N/A
⊗ C-2	446056.12	2603820.63	633.23	SVT	5	7.93	0	N/A
⊗ C-3	446086.79	2604268.52	636.15	SVT	5	7.37	0	N/A
⊗ C-4	446087.26	2604940.14	635.47	SVT	5	5.92	0	N/A
⊗ C-5	446115.96	2605306.92	636.45	SVT	5	6.44	0	N/A
⊗ C-6	446155.02	2605831.44	639.12	SVT	5	5.76	0	N/A
⊗ C-7	446130.54	2606351.98	642.90	SVT	5	7.29	0	N/A
⊗ C-8	446142.32	2606773.52	644.01	SVT	5	7.09	0	N/A
⊗ C-9	446177.71	2607617.32	651.97	SVT	5	6.56	0	N/A
⊗ C-10	446091.05	2607684.69	651.83	SVT	5	6.66	0	N/A
⊗ S-1	446073.80	2603357.05	632.94	BAG SAMPLE	0 - 1.5 TOP SUBGRADE	5.20	0	N/A
⊗ S-2	446049.91	2603585.00	632.89	BAG SAMPLE	0 - 1.5 TOP SUBGRADE	7.73	0	N/A
⊗ S-3	446067.88	2604279.23	636.10	BAG SAMPLE	0 - 1.5 TOP SUBGRADE	4.48	0	N/A
⊗ S-4	446077.37	2604614.97	635.93	BAG SAMPLE	0 - 1.5 TOP SUBGRADE	3.47	0	N/A
⊗ S-5	446092.17	2605078.28	635.48	BAG SAMPLE	0 - 1.5 TOP SUBGRADE	5.42	0	N/A
⊗ S-6	446125.59	2605613.29	638.15	BAG SAMPLE	0 - 1.5 TOP SUBGRADE	8.07	0	N/A
⊗ S-7	446168.56	2607151.55	647.95	BAG SAMPLE	0 - 1.5 TOP SUBGRADE	7.43	0	N/A
⊗ S-8	446185.34	2607819.50	653.27	BAG SAMPLE	0 - 1.5 TOP SUBGRADE	9.26	0	N/A
⊗ S-9	446041.50	2607698.61	651.14	BAG SAMPLE	0 - 1.5 TOP SUBGRADE	4.40	0	N/A



PAVEMENT CORING LOCATIONS	
ARTERIAL STREET REHABILITATION E. 36TH ST. N. (GARNETT TO 129TH) PROJECT NO. 2036A0039A & 2036A0056Z	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT	
Plans and Estimates Prepared by: KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911	

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 100'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR		9-23	
			HORIZONTAL:	LEAD ENGINEER		10/23	
			1" = N/A	FIELD MGR		10/23	
			VERTICAL:	RECOMMENDED		9-24	
			1" = N/A	DESIGN MANAGER			
			FILE:				DATE: SEPTEMBER 6, 2023
			ATLAS PAGE NO: 226, 229, 290, 293				SHEET 17 OF 22 SHEETS


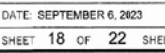

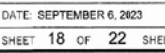

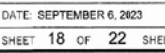


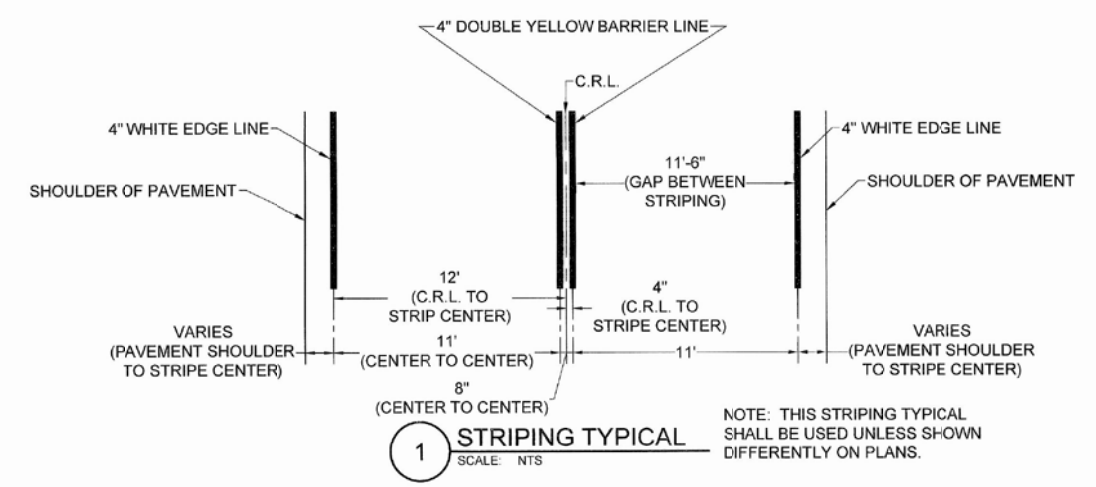

 0 20 40
 FULL SIZE(22x34) 1" = 20'
 HALF SIZE(11x17) 1" = 40'

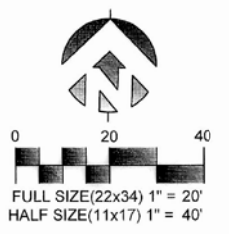
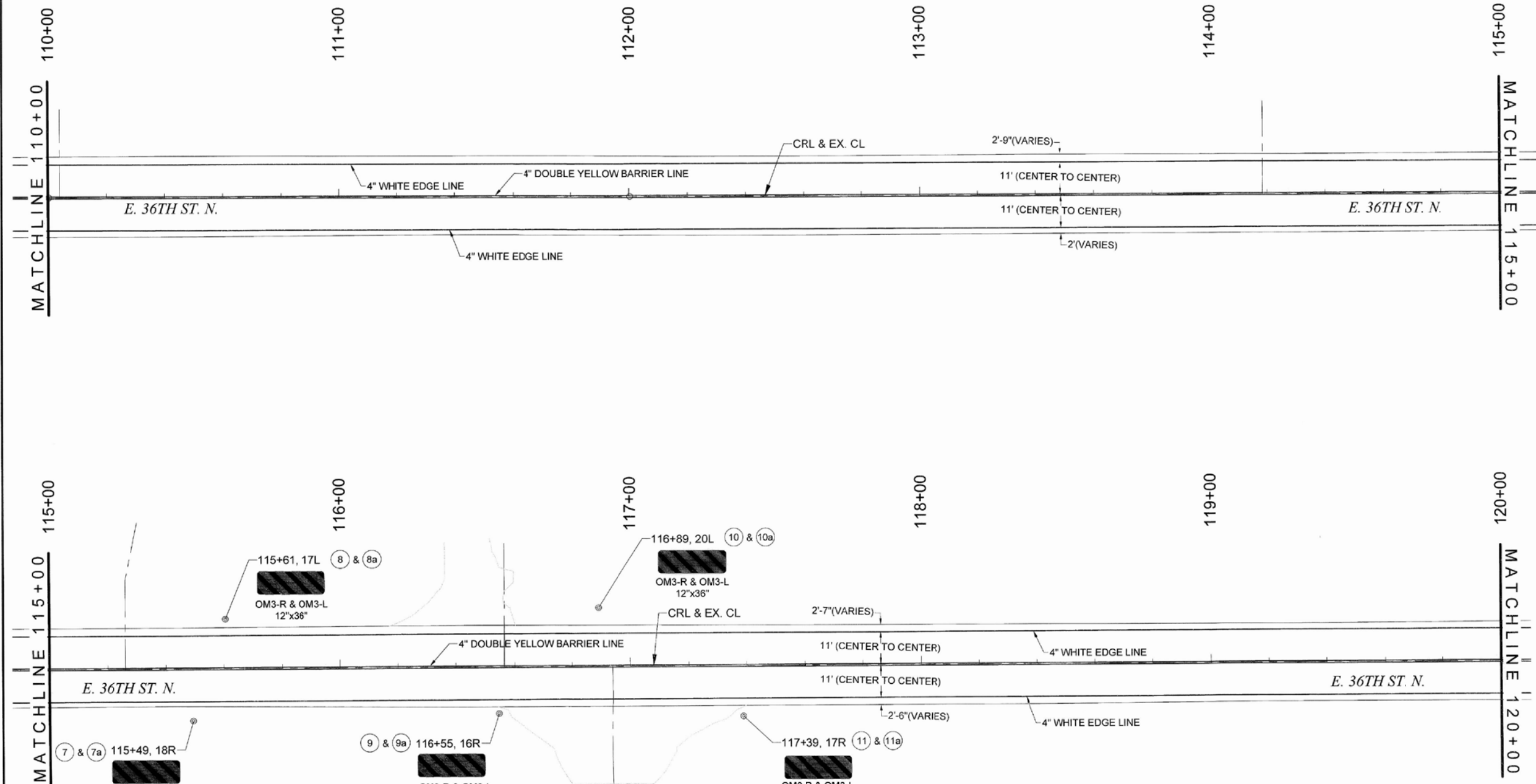
LEGEND	
#	SIGN NUMBER (REF. SUMMARY OF SIGNS, SHT. 04)

- NOTE:
1. STATION & OFFSET LABELS ARE IDENTIFYING THE END, CENTER, AND PI OF PAINT STRIPES.
 2. SEE SUMMARY SHEETS FOR MORE INFORMATION.
 3. SEE SHEET 19 FOR TYPICAL STRIPING SPACING.



SIGNING & STRIPING STA 100+00 TO 110+00																																																																																	
ARTERIAL STREET REHABILITATION E. 36TH ST. N. (GARNETT TO 129TH) PROJECT NO. 2036A0039A & 2036A0056Z																																																																																	
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT																																																																																	
Plans and Estimates Prepared by: KEITHLINE ENGINEERING GROUP 8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911																																																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISION	BY	DATE																															<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>PLAN SCALE</th> <th>DRAWN</th> <th>ZLM</th> <th>DATE</th> <th>APPROVED:</th> </tr> </thead> <tbody> <tr> <td>1" = 20'</td> <td>DESIGNED</td> <td>DAK</td> <td>01-30-2023</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">  CITY ENGINEER </td> </tr> <tr> <td> </td> <td>SURVEY</td> <td>JRL</td> <td>12-06-2022</td> </tr> <tr> <td>PROFILE SCALE</td> <td>PROJECT MGR</td> <td>JRL</td> <td>9-21</td> <td rowspan="3" style="text-align: center; vertical-align: middle;">  DATE: SEPTEMBER 6, 2023 </td> </tr> <tr> <td>HORIZONTAL:</td> <td>LEAD ENGINEER</td> <td>JRL</td> <td>10-23</td> </tr> <tr> <td>VERTICAL:</td> <td>FIELD MGR</td> <td>JRL</td> <td>10/23</td> </tr> <tr> <td> </td> <td>RECOMMENDED</td> <td>DAK</td> <td>9.24</td> <td> </td> </tr> <tr> <td> </td> <td>DESIGN MANAGER</td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>FILE:</td> <td colspan="3"> </td> <td> </td> </tr> <tr> <td>ATLAS PAGE NO:</td> <td>226, 285, 290, 291</td> <td colspan="2"> </td> <td>SHEET 18 OF 22 SHEETS</td> </tr> </tbody> </table>	PLAN SCALE	DRAWN	ZLM	DATE	APPROVED:	1" = 20'	DESIGNED	DAK	01-30-2023	 CITY ENGINEER		SURVEY	JRL	12-06-2022	PROFILE SCALE	PROJECT MGR	JRL	9-21	 DATE: SEPTEMBER 6, 2023	HORIZONTAL:	LEAD ENGINEER	JRL	10-23	VERTICAL:	FIELD MGR	JRL	10/23		RECOMMENDED	DAK	9.24			DESIGN MANAGER				FILE:					ATLAS PAGE NO:	226, 285, 290, 291			SHEET 18 OF 22 SHEETS
REVISION	BY	DATE																																																																															
PLAN SCALE	DRAWN	ZLM	DATE	APPROVED:																																																																													
1" = 20'	DESIGNED	DAK	01-30-2023	 CITY ENGINEER																																																																													
	SURVEY	JRL	12-06-2022																																																																														
PROFILE SCALE	PROJECT MGR	JRL	9-21	 DATE: SEPTEMBER 6, 2023																																																																													
HORIZONTAL:	LEAD ENGINEER	JRL	10-23																																																																														
VERTICAL:	FIELD MGR	JRL	10/23																																																																														
	RECOMMENDED	DAK	9.24																																																																														
	DESIGN MANAGER																																																																																
FILE:																																																																																	
ATLAS PAGE NO:	226, 285, 290, 291			SHEET 18 OF 22 SHEETS																																																																													





LEGEND	
#	SIGN NUMBER (REF. SUMMARY OF SIGNS, SHT. 04)

- NOTE:
1. STATION & OFFSET LABELS ARE IDENTIFYING THE END, CENTER, AND PI OF PAINT STRIPES.
 2. SEE SUMMARY SHEETS FOR MORE INFORMATION.
 3. SEE SHEET 19 FOR TYPICAL STRIPING SPACING.



SIGNING & STRIPING
STA 110+00 TO 120+00

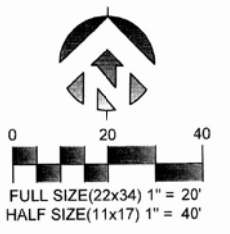
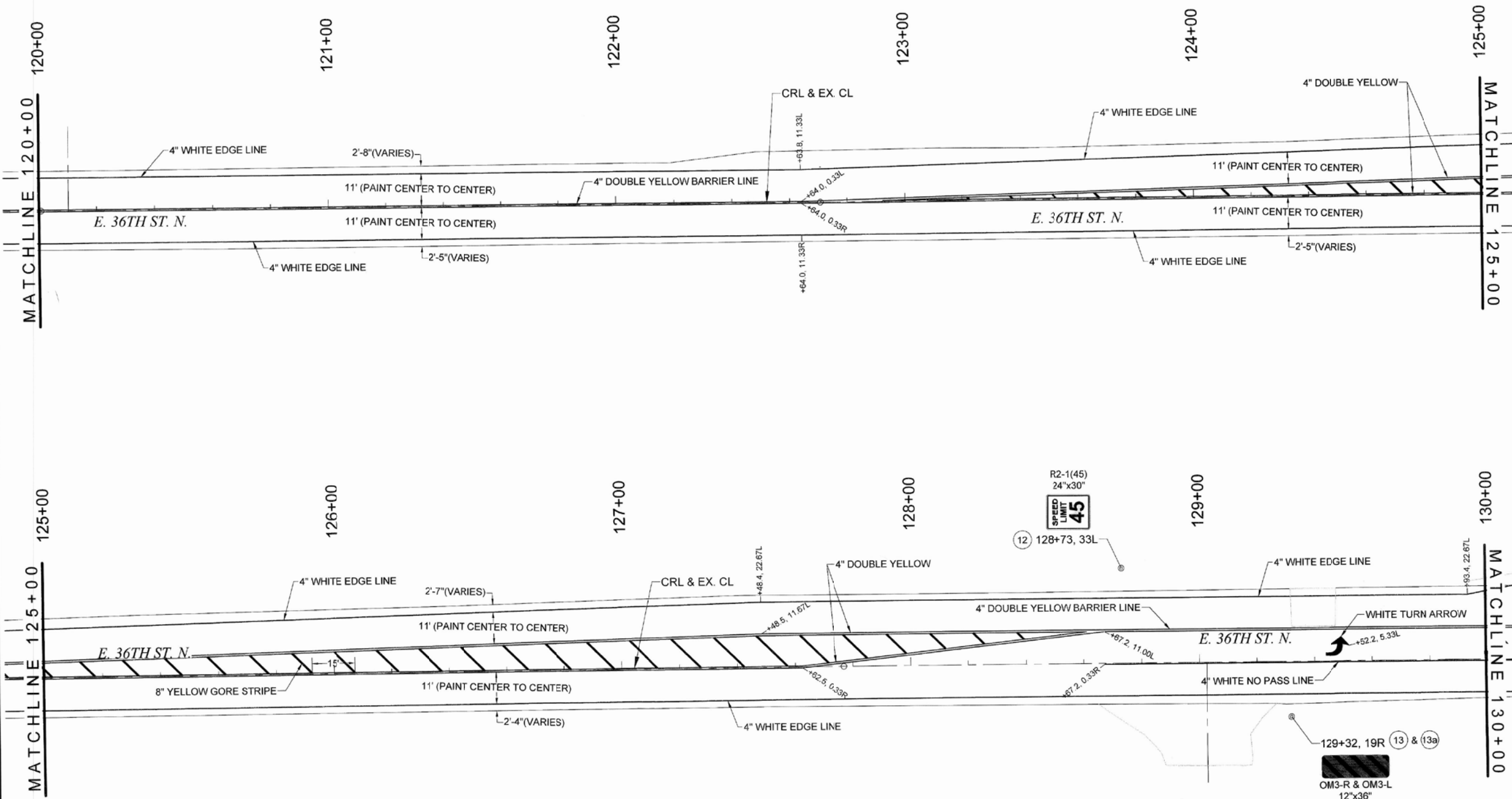
ARTERIAL STREET REHABILITATION
 E. 36TH ST. N. (GARNETT TO 129TH)
 PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
 8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 20'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR	JAM	9-23	
			HORIZONTAL:	LEAD ENGINEER	RSA	10-23	
			1" = N/A	FIELD MGR	THA	10/23	
			VERTICAL:	RECOMMENDED:	HAS	9-24	
			1" = N/A	DESIGN MANAGER			
			FILE:				CITY ENGINEER
			ATLAS PAGE NO:	226, 289, 290, 291			DATE: SEPTEMBER 8, 2023

Toll
 CITY ENGINEER



LEGEND	
#	SIGN NUMBER (REF. SUMMARY OF SIGNS, SHT. 04)

- NOTE:
1. STATION & OFFSET LABELS ARE IDENTIFYING THE END, CENTER, AND PI OF PAINT STRIPES.
 2. SEE SUMMARY SHEETS FOR MORE INFORMATION.
 3. SEE SHEET 19 FOR TYPICAL STRIPING SPACING.



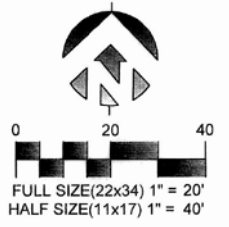
SIGNING & STRIPING
STA 120+00 TO 130+00

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

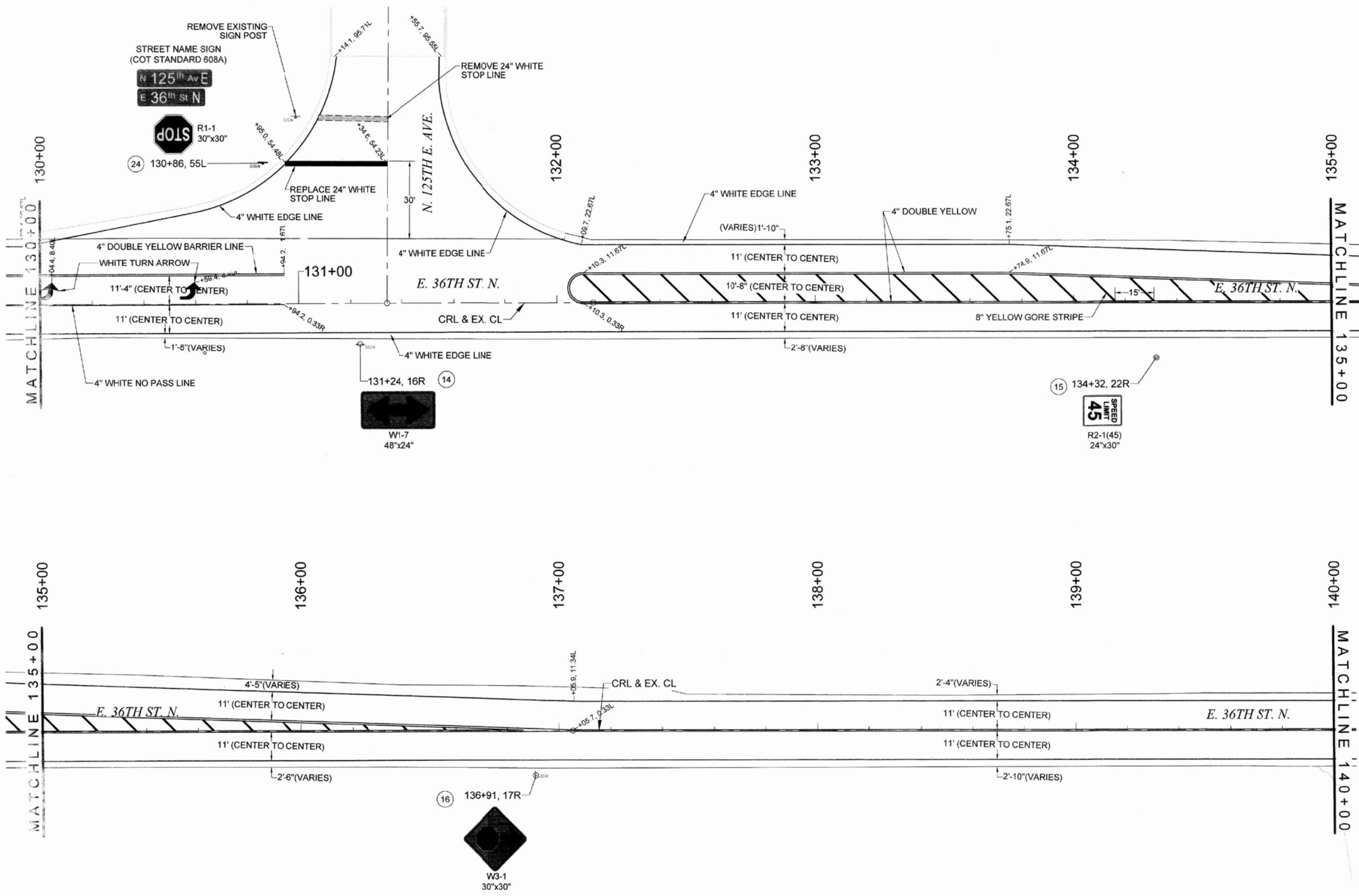
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED
			1" = 20'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR	WJL	9-23	
			HORIZONTAL:	LEAD ENGINEER	SLB	10-23	
			1" = N/A	FIELD MGR	WJA	10/23	
			VERTICAL:	RECOMMENDED	HAL	9-24	
			1" = N/A	DESIGN MANAGER			
FILE:							DATE: SEPTEMBER 6, 2023
ATLAS PAGE NO: 228, 289, 290, 291							SHEET 20 OF 22 SHEETS



LEGEND	
#	SIGN NUMBER (REF. SUMMARY OF SIGNS, SHT. 04)



- NOTE:
1. STATION & OFFSET LABELS ARE IDENTIFYING THE END, CENTER, AND PI OF PAINT STRIPES.
 2. SEE SUMMARY SHEETS FOR MORE INFORMATION.
 3. SEE SHEET 19 FOR TYPICAL STRIPING SPACING.



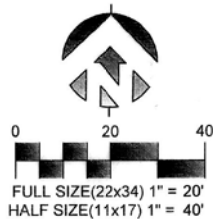
SIGNING & STRIPING
STA 130+00 TO 140+00

ARTERIAL STREET REHABILITATION
E. 36TH ST. N. (GARNETT TO 129TH)
PROJECT NO. 2036A0039A & 2036A0056Z

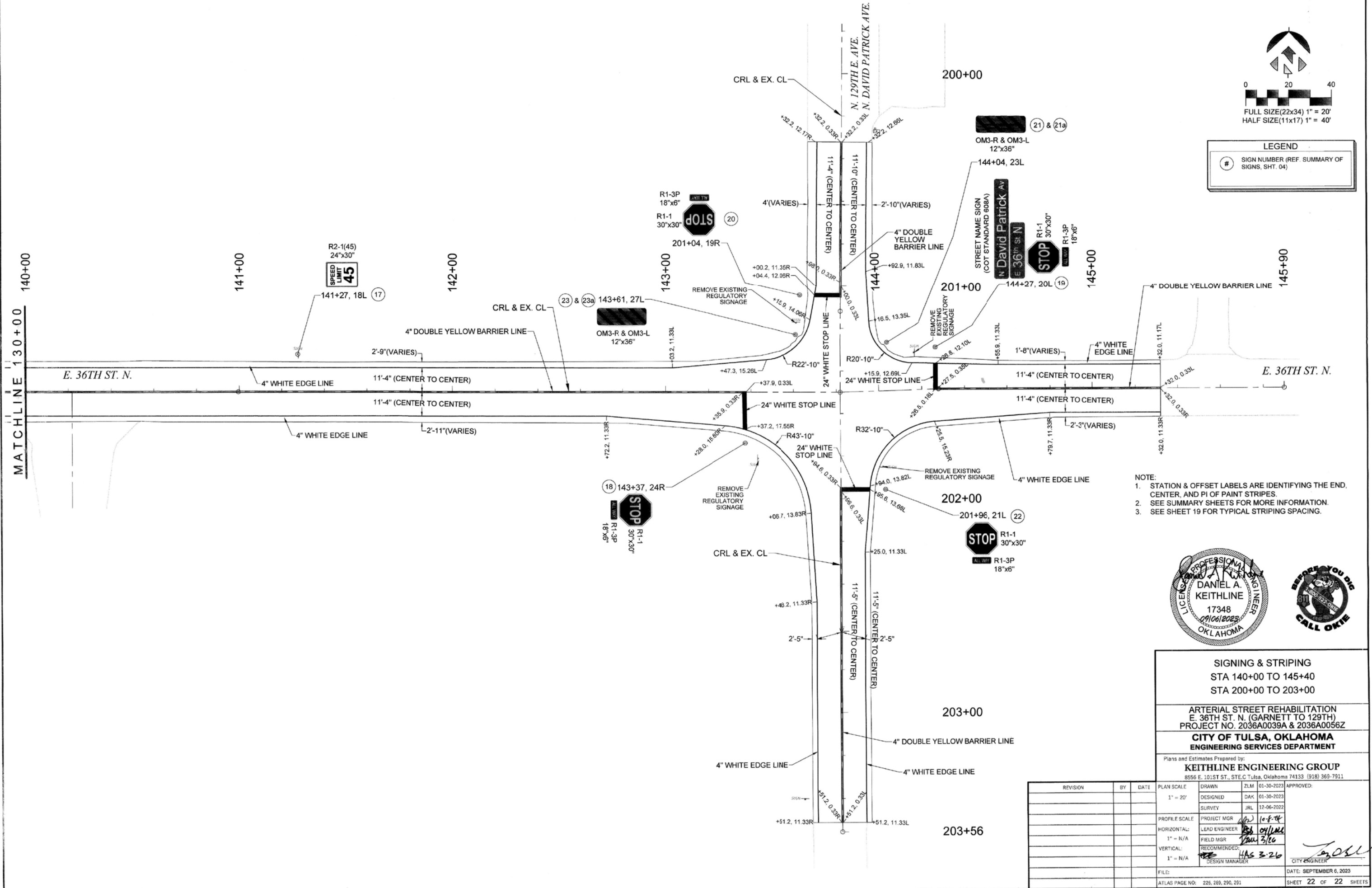
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 20'	DESIGNED	DAK	01-30-2023	
				SURVEY	JRL	12-06-2022	
			PROFILE SCALE	PROJECT MGR	DAK	10-12-22	
			HORIZONTAL:	LEAD ENGINEER	BOB DUNN		
			1" = N/A	FIELD MGR	DAK		
			VERTICAL:	RECOMMENDED:	HAS 3.21a		
			1" = N/A	DESIGN MANAGER			
			FILE:				DATE: SEPTEMBER 6, 2023
			ATLAS PAGE NO. 226, 289, 290, 291				SHEET 21 OF 22 SHEETS



LEGEND	
#	SIGN NUMBER (REF. SUMMARY OF SIGNS, SHT. 04)



- NOTE:
1. STATION & OFFSET LABELS ARE IDENTIFYING THE END, CENTER, AND PI OF PAINT STRIPES.
 2. SEE SUMMARY SHEETS FOR MORE INFORMATION.
 3. SEE SHEET 19 FOR TYPICAL STRIPING.



SIGNING & STRIPING
 STA 140+00 TO 145+40
 STA 200+00 TO 203+00

ARTERIAL STREET REHABILITATION
 E. 36TH ST. N. (GARNETT TO 129TH)
 PROJECT NO. 2036A0039A & 2036A0056Z

CITY OF TULSA, OKLAHOMA
 ENGINEERING SERVICES DEPARTMENT

Plans and Estimates Prepared by:
KEITHLINE ENGINEERING GROUP
 8556 E. 101ST ST., STE. C Tulsa, Oklahoma 74133 (918) 369-7911

REVISION	BY	DATE	PLAN SCALE	DRAWN	ZLM	01-30-2023	APPROVED:
			1" = 20'	DAK	01-30-2023		
				JRL	12-06-2022		
			PROFILE SCALE:	PROJECT MGR	10-8-22		
				LEAD ENGINEER	04/11/22		
			1" = N/A	FIELD MGR	04/11/22		
				RECOMMENDED:	04/11/22		
			1" = N/A	DESIGN MANAGER	04/11/22		
			FILE:				CITY ENGINEER
			ATLAS PAGE NO: 226, 289, 290, 291				DATE: SEPTEMBER 6, 2023
							SHEET 22 OF 22 SHEETS