	אטני	SORVET DATA	IA
NORTHING	EASTING	ELEV.	DESCRIPTION
435334.2090	2594694.7950	89.829	435334.2090 2594694.7950 628.68 CITY OF TULSA BM "COT-510"
435387.7970	2599285.9860	616.70	435387.7970 2599285.9860 616.70 CITY OF TULSA BM "TD12"
1.	HORIZONTAL CONTROL:	OL:	

- HORIZONTAL CONTROL FOR THIS SURVEY IS NAD 83 (1993) OKLAHOMA STATE PLANE COORINATE SYSTEM, NORTH ZONE 3501.
- ACCURACY-1ST ORDER OR BETTER.
- VERTICAL CONTROL:
- LEVEL DATUM IN NAVD 1988.
- ACCURACY-1st ORDER OR BETTER.

PERMANENT BENCHMARKS:

COT-510 ID12 JJ

UTILITY CONTACTS	ONTACTS	
טזורונג	CONTACT	PHONE
AI&I	AL NICHOLS	918-596-4237
COX COMMUNICATIONS	BRANDON WADE	918-286-4716
ONG	JONATHON MEADOWS	918-831-8215
AEP/PSO	ADAM FIELDS	918-250-6257
CITY OF TULSA UTILITY COORDINATOR	CHRIS KOVAC	918-596-9649
MTTA	ERIC SMITH	918-830-0024

CITY OF TULSA, OKLAHOMA

CONSTRUCTION PLANS FOR

NON-ARTERIAL STREET MAINTENANCE STREET MAINTENANCE ZONE 3081 AT VARIOUS LOCATIONS IN

20-23 20-23 20-23 30-23 35-38

TYPICAL SECTIONS
TYPICAL SECTIONS
ROW & SURVEY DATA SHEETS
GEOMETRIC DATA
DRAINAGE AREA MAP
STORMWATER MANAGEMENT PLAN
LOCATION MAP
PLAN SHEETS
DRIVEWAY PROFILES
REMOVAL SHEETS
SIGNING PLAN
SPECIAL SIGN DETAILS
TRAFFIC CONTROL PLANS

1 2-4 5-6 7-9 10-12 13-16

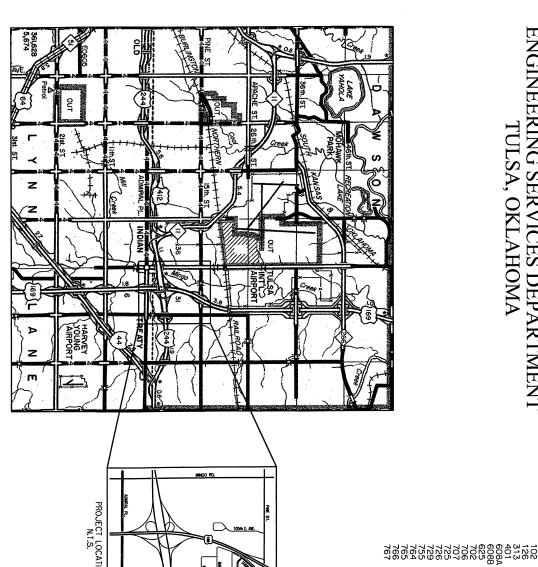
DUANTITIES AND NOTES ARY SHEETS

INDEX OF SHEETS

ACCOUNT NO. 2036N3081Z.Streets.NArtRhb.4281.42813122.541106 ENGINEERING SERVICES DEPARTMENT TULSA, OKLAHOMA

PROJECT SIGN
STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE
STANDARD DETAIL VALVE BOX
MANHOLE GRADE ADJUSTMENT
STREET NAME SIGNS
TRAFFIC SIGNS

REQUIRED CITY OF TULSA STANDARD DRAWINGS



TRAFFIC SIGNS REMOVAL OF TRAFFIC HEMS RESIDENTIAL CONCRETE DRIVEWAY ASPHALT STREET COMMERCIAL DRIVEWAY COMMERCIAL DRIVEWAY STANDARD PACEMENT PATCH AND REPAIR ASPHALT PAVEMENT STANDARD DETAILS FOR RESIDENTIAL & COLLECTOR STREETS CONCRETE PAVEMENT STANDARD DETAILS FOR RESIDENTIAL & COLLECTOR STREETS CONCRETE PAVEMENT STANDARD DETAILS FOR RESIDENTIAL & COLLECTOR STREETS STANDARD REINFORCED CONCRETE STORMWATER MILETS STANDARD STORMWATER FRANES STANDARD CAST IRON CURB REQUIRED ODOT STANDARD DRAWINGS

2019 STANDARDS
ROADWAY
SSS-2-1
IESCA-0
ISD-0
ASCD-6-1
PSE-2-1
PCI-1-1
PDI-2-2 STANDARDS TRAFFIC

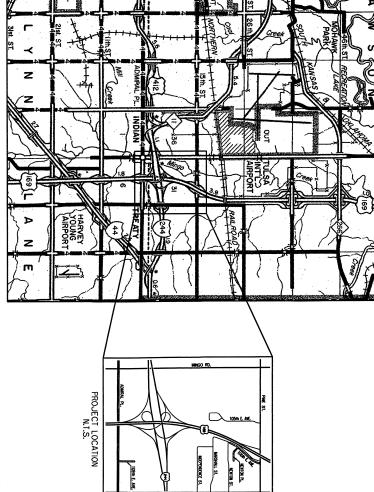
TCS1-1-01
TCS2-1-00
TCS5-1-00
TCS5-1-00
TCS6-1-02
TCS7-1-02
TCS8-1-00
TCS8-1-00
TCS8-1-00
TCS14-1-01
TCS19-1-01

CONVENTIONAL SYMBOLS PROPOSED ROAD

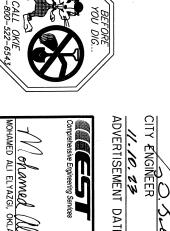
	דאטרטטבט אטאט
	RAILROADS
	TOWNSHIP AND RANGE
	SECTION LINES
	QUARTER SECTION LINES
\ \ \	FENCES
	GROUND LINE
	EXISTING ROADS
-	BASE LINE
+2% 0 -2%	GRADE LINES
100	TELEPHONE AND TELEGRAPH
-0-4-0-	POWER LINES
	BUILDINGS
+	OIL WELL
ДП	DRAINAGE STRUCTURES - IN PLACE
I	DRAINAGE STRUCTURES - NEW
PRES.R/W	RIGHT-OF-WAY LINES - EXISTING
2	

CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

PROJECT NO. 2036N3081Z



APPROVED BY:



ADVERTISEMENT DATE: EST, II C.A. NO. INC. 3639

REG NO 30910 DATE 615 N. HUDSON, STE. 300 OKLAHOMA CITY, OK 73102 (405) 815-3600

CERTIFICATE OF AUTHORIZATION NO. 3639 (PE/LS) CERTIFICATE OF AUTHORIZATION EXPIRES 6/30/24 MOHAMED ALI ELYAZGI 30510

N .

IN ACCORDANCE WITH ODOT SECTION 105.14, THE COT 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 AIT THE CONTRACTOR'S RISK IN THE EVENT THAT LOCAL OR CONSTRUCTION TRAFFIC CAUSES DAMAGE TO PREVIOUSLY UNDAMAGED AREA. CURRENT COT CONSTRUCTION BUDGETS DO NOT ALLOW FOR GROWTH OF THE PROJECT.

ENTIRE PROJECT IS WITHIN THE CORPORATE AND URBAN LIMITS OF THE CITY OF TULSA

POPULATION 400,669 (2018) CITY OF TULSA LANE MILES OF REHAB

0.98 MILES

DESIGN INFO

PROJECT NO. 2036N3081Z/ACCOUNT NO. 2036N3081Z.Streets.NArtRhb.4281.42813122.541106/NON-ARTERIAL STREET REHABILITATION IN STREET MAINTENANCE ZONE 3081

RIGHT-OF-WAY LINES - EXISTING CONTROLLED ACCESS RIGHT-OF-WAY LINES - NEW

R/W>

RIGHT-OF-WAY FENCE

Sil

SURFACING / STRUCTURES (S1-S21) PAY ITEM NOTES (VERSION: 8/9/2017)

S-2:	S- <u>-</u> :
INCLUDES COMPACTION OF AGGREGATE TO 98% AASHTO T180 MODIFIED PROCTOR.	S-1: TYPE A AGGREGATE BASE WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 90% OF THE PATCHING, QUICK SET FLOWBRE FILL WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 10% OF THE PATCHING, ACTUAL QUANTITIES TO BE DETERMINED BY THE ENGINEER.

TEM NO.

8

SUMMARY OF

PAY QUANTITIES -

ROADWAY

PAY ITEM NOTE

S

QUANTITY

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586

S-3: SEPARATOR FABRIC SHALL BE USED AT ALL PAVEMENT PATCHES AND RECONSTRUCTION SECTIONS. THE SEPARATOR FABRIC SHALL BE CUT A OVERLAPPED A MINIMUM OF 2 FT AT ALL EDGES OF THE REPAIR. AND

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 ODD! 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.

COMBINED CUBB AND GUTTER (6" BARRIER)
CONCRETE DRIVEWAY (6"H.E.S.)
MANHOLE ADJUSTED TO GRADE (PUBLIC)
VALVE BOX ADJUSTED TO GRADE
REMOVAL OF CURB AND GUTTER
REMOVAL OF CONCRETE DRIVEWAY
REMOVAL OF ASPHALT DRIVEWAY

(S-12, 13, 15, 10 (S-12, 13, 16, 1) (S-12)(R-2)(D-1, 2) (S-12)(R-2)(D-6) (R-1, 2, 5, 6) (R-1, 2, 5, 6)

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URBAN RIGHT-OF-WAY RESTORATION OWNER ALLOWANCE

6, 9, 10)

EA EA EA

CONTROL

SEPARATOR FABRIC
CONSTRUCTION AS-BUILTS
FABRIC REINFORCEMENT

22

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(S-4) (S-5, (S-9)

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SYEA

3 6 ၅

7,588 842 842 6,307 503

(S-3)

SOLID SLAB SODDING
AGGREGATE BASE TYPE A
SUBGRADE METHOD B

SSIFIED EXCAVATION

DOCUMENTATION AND MANAGEMENT
RARY SEDIMENT FILTER

8, 9)

SYSTEME

26 390 880 2,418

PG 70 OR TU	USE /	PG 7	PG 76	PG 70	PG 62	g <u>B</u>
D-28 OK C JRNING TRA AST USE	USE ADT ONLY WHEN BASED ON 20 YEARS	PG 76-28 E	PG 76-28 OK	PG 70-28 OK	PG 64-22 OK	BINDER ² GRADE
DR PG 76-28 OK MAY INFIC OCCURS, SUCH A	WHEN ESAL COMPUTATION		>=10	<10	<3	MEASALS
BE DESIRABLE I S URBAN INTER HE MAINLINE.	DNAL DATA IS N		>=10,000	< 10,000	<5,000	ADT1
*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.	'USE ADT ONLY WHEN ESAL COMPUTATIONAL DATA IS NOT AVILABLE. CALCULATE THE DESIGN ESALS BASED ON 20 YEARS.	CONTACT ODOT MATERIALS DIVISION FOR RECOMMENDED USE	USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES.	USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES.	USE WHEN MORE THAN 4-6 INCHES BELOW THE SURFACE. ALSO USE FOR SHOULDERS, DRIVEWAYS, BELOW PCC, AND TEMPORARY CONSTRUCTION.	NOTES

TEM NO.

SPEC. NO.

DESCRIPTION

SIGNS

SUMMARY

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PAY QUANTITIES -

TRAFFIC

PAY ITEM NOTE

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QUANTITY

12 | 45 | 99

13/18

POST-MOUNTED TRAFFIC / STREET NAME
2" SIGN POST
1 3/4" SIGN POST

3 3 3 3 3 3 3 3 3 3 3 3 3

880(B) 880(C) 880(E) 880(E)

1 1/2" SIGN POST
SIGNS 0 TO 6.25 SF
SIGNS 6.26 TO 15.99 SF
SIGNS 16.00 AND UP
BARRICADES (TYPE III)
TYPE "A" WARNING LIGHT

s-9: THIS ITEM INCLUDES ALL COSTS ASSOCIATED WITH COLD MILLING AND PROVIDE BUTT JOINTS AS REQUIRED, NO ADDITIONAL PAYMENT SHALL E MADE FOR COLD MILLING BEYOND THE AVERAGE DEPTH SHOWN ON THE TYPICAL SECTIONS.

S-10: NOT USED.

(1-2, 4, 5) (1-2, 4, 5) (1-2, 4, 5) (1-2, 4, 5) (1-5) (1-5) (1-6) (1-6)

1,890 1,350 540 1,350 1,350 3,240 9,630 9,630

S-11:NOT USED.

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

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

S-14:NOT USED.

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.

SIGN (CITY OF TULSA)

S-15: 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.

S-16: CURB, GUTTER, AND/OR SIDEWALK ASSOCIATED WITH THE DRIVEWAY AND THROUGH THE DRIVEWAY IS INCLUDED IN THE COST OF THE DRIVEWAY.

S-17: ONE SIDEWALK PANEL ON EACH SIDE OF DRIVEWAYS 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.

S-18: NOT USED.

S-19: NOT USED.

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

EARTHWORK / SI TE PREPARATION (E1-E11)

E-1:ALL COSTS FOR REMOVING TREES, SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPERATE PAY ITEM ARE INCLUDED IN THE PRICE BID.

E-2: ALL EXISTING DRAINAGE 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.

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 EXCA AND MODIFIED SUBG VATION INCLUDES REMOVAL OF AGGREGATE BASE RADE 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 INTO THE STORM WATER PONDING ON THE 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 TIEM.

E-7: EROSION PROTECTION SHALL BE PLACED AS FOLLOWS:

A) AROUND INLETS . STORM SEWER SYST O PREVENT INFLOW OF ERODED MATERIAL INTO

B) IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH OF ERODED MATERIAL ONTO ADJACENT PROPERTY;

C) FOR ENTIRE DUR REPLACEMENTS, AS ATION OF PROJECT, WITH MAINTENANCE AND DIRECTED BY THE ENGINEER;

D) WITH PERIODIC REMOVAL OF SEDIMENT IN ACCORDANCE WITH STORMWATER MANAGEMENT PLAN.

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

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

E-9: INCLUDES 4 TYPE I FILTERS.

E-10: ESTIMATED QUANTITY IS BASED ON SODDING OF ALL DISTURBED AREAS OUTSIDE THE FINAL PAVING LIMITS AND WITHIN THE FINAL GRADING LIMITS AS MOJCATED BY THE TOP-OF-CUT/TOE-OF-SLOPE LIME 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 S0 YDS, FERTILIZER SHALL BE APPLIED PER SECTION 230.04G OF ODOT STANDARD SPECIFICATIONS, WATERING SHALL BE APPLIED AS NECESSARY UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE WORK IS ACCEPTED AS COMPLETE.

NON-ARTERIAL STREET REHABILIT PAY QUANTITIES AND NOTES (SHEET NO. 1 OF 3) PROJECT NO. 2036N308 WATERLINE REPLACEMENT 3081 (PE/LS); Expires 6/30/24 E. 5th ST., SUITE 16 TULSA, OK 74103 (918) 660-7141 ี่ อี

REVISION DATE HORIZONTAL: VERTICAL: PROFILE SCALE PROJ. MNGR. MAN 11/18
LEAD MNGR. MAN 10/123
FIELD MNGR. MAN 10/123 # E RF 4/21
DRA 4/21
CH 3/21 APPROVED:

PAY ITEM NOTES (VERSION: 8/9/2017) CONTINUED

DRAINAGE (D1-D16)

- D-1: 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.
- NOT USED.

D-4: NOT USED.

- D-5: NOT USED.
- D-6: 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, BET WEEN THE HOURS OF 730 AM AND 3300 PM MONDAY THROUGH FRIDAY.
- D-7: 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 ENGINEER.
- р<u>-</u>9: ALL INLETS, COMPLETE IN PLACE, SHALL BE CAST IN PLACE CONCRETE OR PRECAST CONCRETE. THIS PAY ITEM INCLUDES ANY INLET FRAME(S), GRAIF(S), HODOKS) AND CONCRETE REQUIRED FOR COMPLETE INSTALLATION OF STRUCTURE PER THE CONSTRUCTION DOCUMENTS.

D-10: NOT USED.

- D-11:CAST IRON CURB INLET CONFIGURATION NAMING CONVENTION PROVIDED IN COT STANDARD NO. 755. SEPARATE DETAILS SHALL FREFERENCED OR PROVIDED IN THE PLANS FOR NON-CITY-STANDARD BE INLETS.
- STANDARD NAMING: CICI DES G(T) [W/AMH]
- G: NUMBER OF GRATES.
- T: LETTER(S) CORRESPONDING TO ARRANGEMENT OF CAST IRON TO BE INSTALLED UPSTREAM OF GRATES. HOODS
- $\mbox{W/AMH:}\mbox{ IF SHOWN, INLET TO BE CONSTRUCTED WITH ATTACHED ACCESS MANHOLE.}$

D-12: NOT USED.

- D-13: NOT USED.
- D-14: NOT USED.
- D-15: NOT USED.
- D-16: CONTRACTOR SHALL PROVIDE REDLINED PLANS FOR ALL CONSTRUCTION, INCLUDING: STORMWATER
- -MANHOLES: NORTHING AND EASTING, INNER DIAMETER
 -INLETS: NORTHING AND EASTING, DESIGN TYPE
 -PIPES: DIAMETER, MATERIAL, LENGTH
 -ANY MODIFICATIONS TO DESIGN PLANS AS REQUIRED DURING
 CONSTRUCTION.
- REDLINED PLANS SHALL BE SUBMITTED TO THE CITY INSPECTOR, IN BOTH HARD COPY AND ELECTRONIC (PDF) FORMAT, PRIOR TO APPLICATION FOR FINAL PAYMENT.

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.
- ALL SAW CUTTING AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE ADJUSTED, REMOVED, REPAIRED, OR REPLACED.
- PAY ITEM INCLUDES REMOVAL OF ALL STRUCTURES AND OBSTRUCTIONS WITHIN PROJECT LIMITS NOT SPECIFIED BY OTHER ITEMS OF WORK.
- INCLUDES SAWING NOT INCLUDED IN OTHER ITEMS OF WORK.
- გ-ტ.

- \$FILEL\$
- 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.

\$TIME\$

\$DATE\$

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.
- 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.
- Ġ. CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS DAMAGED OR REQUIRING RELOCATION DURING THE CONSTURCTION OF THIS PROJECT TO THE SATISFACTION OF THE PROPERTY OWNER AND CITY ARBORIST, COST SHALL BE INCLUDED IN THE PRICE BID. 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-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: NOT USED.
- ှ မှ 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.

TRAFFIC (T2-T7)

- T-1: NOT USED.
- : -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.
- ٦-بې NOT USED
- Т-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.
- Ϋ́ IF WARNING LIGHTS ARE TO BE USED ON TRAFFIC CONTROL DEVICES, TYPE "A" LIGHTS SHALL ONLY BE USED ON DEVICES WARNING OF UNEXPECTIED 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.
- е: Т-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.

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

CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING SIGNS AND MARKINGS REMOVED OR DAMAGED AS LISTED IN THE SIGN 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 MATERIAL REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.

PAY QUANTITIES AND NOTES (SHEET NO. 2 OF 3)

WATERLINE REPLACEMENT

TULSA, OK 74103 (918) 660-7141

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GENERAL CONSTRUCTION NOTES

- 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 DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.
- 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. A LIST OF ALL UTILITY OWNERS IS PROVIDED ON SHEET 1 OF THESE PLANS.
- THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMAONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN (10) DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAY, PRIOR TO THE COMMENCEMENT OF WORK, PHONE: 1-800-522-6543.
- 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.
- œ THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
- ENGINEERING REPRESENTATIVE. CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLET, ADEQUATE, AND SAFE FIELD CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD
- ō CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPER 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.
- <u>=</u> 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.
- 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.
- <u>.</u>3 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.
- <u>4</u> LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
- 5. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
- <u>.</u> 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.
- <u>æ</u> 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 COSTS 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 918-596-7814 FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.

GENERAL CONSTRUCTION NOTES (CONTINUED)

- 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.

27.

- NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES.
- 29. CURB RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS
- 30. REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIK ASTM D 4956-01 TYPE IX RETROFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUTTYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR UMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY EIII RETROFLECIVE 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 3:30 PM MONDAY THROUGH FRIDAY.
- 32. THE SIGN PLACEMENT STATIONING AND LOCATIONS SHOWN ON THE PLAN SHEETS AND SHALL BE VERIFIED BY THE CONTRACTOR SO THAT THE SIGN IS INSTALLED IN ACCORDING INSTALLED IN ACCORDING ABBILITIES ACT STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE ONCOMING/APPROACHING MOTORIST. IF A PROPOSED LOCATION CONFLICTS WITH OTHER BE NOTIFIED. SUMMARY SHEETS ARE APPROXIMATE, EXACT STATIONING AND LOCATIONS SUMMER WITH CITY OF TULSA STANDARDS, CORRENT AMERICANS WITH CORD OPTIMUM VISIBILITY TO THE SES IN ORDER TO PROVIDE OPTIMUM VISIBILITY TO THE SIGNS, UTILITIES, OR OTHER ROADWAY FEATURES, THE ENGINEER SHALL
- POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE, EXACT LENGTHS SHALL BE DETERMINED BY A FIELD SURVEY CONDUCTED BY THE CONTRACTOR
- <u>34</u> ALL ASPHALT STREETS THAT ARE TO BE RECONSTRUCTED SHALL BE LEFT WITH A DRIVEABLE 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 CONSTRUCTION OF THIS PROJECT. REPLACEMENT OF SECTION CORNERS OR ANY OTHER SURVEYOR AUTHORIZED TO PERFORM WORK IN THE STATE OF OKLAHOMA. T-OF-WAY MARKERS REMOVED OR DISTURBED AS A RESULT OF THE
- 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.
- 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.

38.

- 39. PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF DISFIGUREMENT. ALL DICOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER
- 6. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB F DISABILITIES ACT, ACCESSIBILITIES GUIDELINES, AND THE PROPOSED ACCESSIBILITY GUID PUBLISHED ON JULY 26, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIC PREVENT FULL COMPLANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY OF PREVENT FOR THE PROPERTY OF THE WORK, WHICH IS NOT IN FUI FROM THE ENGINEER, ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF APPROVAL, SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE. RAMPS, AND CROSSWALKS, SHALL COMPLY WITH THE AMERICANS WITH UNDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, IONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT TIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE ULL COMPLIANCE WITH THE ADA, WITHOUT PRIOR WRITTEN APPROVAL THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN
- 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.
- THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), COMMENCING WORK, LANE CLOSURES, OR PRIOR TO DETOURING TRAFFIC. ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO
- 43. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.
- <u>4</u>4. DRIVES TO BE REPLACED ARE AN ESTIAMTED LOCATION AND QUANTITY ONLY. CONTRAC TOR TO REPLACE DRIVES PER CITY OF TULSA FIELD ENGINEERING.

DATE HORIZONTAL: NON-ARTERIAL STREET REHABILITATION AND WATERLINE REPLACEMENT FOR MAINTENANCE ZONE 3081 PAY QUANTITIES AND (SHEET NO. 3 OF PROJECT NO. PROJ. MNGR. MAN 8/23
LEAD MNGR. O) 8/21
FIELD MNGR. / CM 1/23 DESIGNED DRA 4/21 CH 3/21 2036N308 NOTES 3) E. 5th SI, SUIF 16 TULSA, OK 74103 (918) 660-7141 8

VERTICAL: 525年

	SUMMARY OF REMOVALS	REMOVAL	S	
		619(B)	619(B)	619(B)
SHEET NO.	STATION TO STATION	REMOVAL OF CURB & GUTTER	REMOVAL OF CONCRETE DRIVEWAY	REMOVAL OF ASPHALT DRIVEWAY
		LF.	S.Y.	S.Y.
26	10+67.35 TO 18+00.00	165.45	44.92	
27	18+00.00 TO 26+00.78	72.69	43.26	
28	30+76.00 10 36+50.00	93.36		
29	40+40.00 TO 46+07.73	231.95	181.13	15.02
	TOTALS	563.45	269.31	15.02

PROJECT NO. 2036N3081Z

NON-ARTERIAL STREET REMABILITATION AND WATERLINE REPLACEMENT FOR MANNIEMANCE ZONE 3081

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT PLANS AND ESTIMATES PREPARED BY: 15 E. 5th St., SUITE 1601 10.5A, OK 74103 (918) 660-7141

SUMMARY SHEETS (SHEET NO. 1 OF 2)

_	_	_	_	_	_	_	_	_						_
	22	22	22	22	21	20	20	21	21	20	20		SHEET NO.	
	34+31.12 TO 34+45.65	34+00.57 TO 34+14.79	32+97.74 TO 33+12.07	32+64.45 TO 32+81.40	22+17.63 TO 22+43.18	16-52.64 TO 16-84.64	13+25.00 TO 14+03.49	22+35.49	22+33.44	16+68.72	16-68.64		STATION TO STATION	SUMMARY OF EROSION CONTROL
TOTALS	נז.	LT.	LT.	LT.	LT.	LT.	LT.	LT.	RT.	RT.	LT.		LOCATION	SION CC
4.00								1.00	1.00	1.00	1.00	EA.	TEMPORARY SEDIMENT FILTER 9	NTROL
25.66	2.43	2.46	2.77	2.70	2.84	3.56	8.90					S.Y.	SOLID SLAB SODDING	

20.00	0 100 00	25.0	222				
1.31	16.67	5.56	1.85	Lī.	- 1		23
1.05	13.56	4.44	1.48	RT.	TO 45+45.00	45+40.00	23
5.25	95.56	22.22	7.41	LT.	10 45+60.00	45+40.00	23
1.29	15.56	5.44	1.81	LT.	TO 43+26.44	43+19.44	23
5.25	55.56	22.22	7.41	LT. & RT.	TO 41+80.00	41-60.00	23
5.25	55.56	22.22	7.41	LT.	10 40+70.00		23
1.31	16.67	5.56	1.85	LT.	TO 34+87.50		22
5.51	61.56	23.33	7.78	LT.	TO 34+30.59		22
11.81	141.11	50.00	16.67	LT. & RT.	10 32+35.00	31+45.00	22
1.31	16.67	5.56	1.85	LT.	TO 31+10.00		22
19.68	234.44	83.33	27.78	LT.	TO 25+09.81	23+59.81	21
3.31	37.56	14.00	4.67	LT. & RT.	TO 23+37.81	ı	21
6.69	67.56	28.33	9.44	LT.	TO 23+30.81		21
1.34	16.67	5.67	1.89	RT.	TO 23+10.05		21
12.91	129.56	54.67	18.22	RT.	T0 22+78.74	22+34.53	21
9.44	101.78	40.00	13.33	RT.	TO 20+85.00	20+40.00	21
5.51	61.56	23.33	7.78	RT.	10 20+15.00		21
7.35	75.33	31.11	10.37	RT.	TO 19+59.00	19+29.00 1	21
5.90	60.00	25.00	8.33	LT. & RT.	TO 15+83.50	15+68.50	20
1.94	24.44	8.22	2.74	RT.	T0 15+06.76	14+94.72	20
14.61	147.33	61.89	20.63	LT.	TO 15+25.00		20
3.44	44.67	14.56	4.85	RT.	TO 14+63.56		20
19.96	192.22	84.56	28.19	LT. & RT.	TO 14+55.00	14+05.00 1	20
12.99	132.44	55.00	18.33	RT.	10 12 + 62.50		20
7.87	80.44	33.33	11.11	LT.	10 12+77.60		20
7.87	82.22	33.33	11.11	LT.	10 12+40.00		20
11.81	116.67	50.00	16.67	LT. & RT.	T0 12+10.00	11+80.00 1	20
5.25	55.56	22.22	7.41	LT. & RT.	TO 11+80.00	11+60.00 1	20
C.Y.	S.Y.	S.Y.	C.Y.				
TYPE I AC PATCH	SEPARATOR FABRIC	SUBGRADE METHOD B	AGGREGATE BASE TYPE A	LOCATION	STATION TO STATION	STATION 1	SHEET NO.
SPECIAL	325	310(B)	303(A)				
			PATCHING	유	SUMMARY		

SHEET NO.

LOCATION

LEFT RADIUS

RIGHT RADIUS

LENGTH

WIDTH

EXISTING SLOPE

PROPOSED SLOPE

AGGREGATE BASE (TYPE A)

SUMMARY OF

DRIVEWAYS

23 23 23 23 22 21 21 20 20

12-52.30 16-51.03 18-48.27 19-83.22 32-89.57 34-22.96 40-88.44 41-15.36 41-15.36 41-16.28 41-16.28 41-16.74 42-49.97 42-476.74

4,89 4,52 8,38 8,38 5,09 9,22 7,78 3,20 3,58 4,98 8,22 7,34 8,77 7,75 8,77

44.05	49.33	29.85	21.49	19.18	46.70	55.30	30.56	50.28	27.14	29.35	S.Y.		6	CC ORIV (H.	ONC VEW .E.S	RE IAY S.)	TE		610(B)								
23	23	22	22	22	22	21	21	21	21	21	21	21	21	20	20	20	20	20	20	20	20	20	20		SHEET NO.		
41 -6 0.00	40+50.00	34+77.50	34+00.59	31+45.00	31+00.00	23-59.81	23+30.81	23+14.77	22+99.94	22+34.53	20+40.00	19+85.00	19+29.00	15+68.50	14+94.72	14+78.50	14+44.09	14+05.00	12+52.50	12+52.50	12+10.00	11+80.00	11+60.00		STATION		
TO 41+80.00	10 40+70.00	T0 34+87.50	TO 34+30.59	TO 32+35.00	TO 31+10.00	TO 25+09.81	10 23+37.81	TO 23+30.81	TO 23+10.05	T0 22+78.74	TO 20+85.00	TO 20+15.00	TO 19+59.00	TO 15+83.50	TO 15+06.76	TO 15+25.00	TO 14+63.56	TO 14+55.00	TO 12+62.50	TO 12+77.60	TO 12+40.00	TO 12+10.00	TO 11+80.00		STATION TO STATION		SUMMARY
LI. & RI.	LT.	LT.	Lī.	LT. & RT.	LT.	LT.	LT. & RT.	LT.	RT.	RT.	RT.	RT.	RT.	LT. & RT.	RI.	LT.	RI.	LT. & RT.	RI.	LT.	LT.	LT. & RT.	LT. & RT.		LOCATION		유
7.41	7.41	1.85	7.78	16.67	1.85	27.78	4.67	9.44	1.89	18.22	13.33	7.78	10.37	8.33	2.74	20.63	4.85	28.19	18.33	11.11	11.11	16.67	7.41	C.Y.	AGGREGATE BASE TYPE A	303(A)	PATCHING
22.22	22.22	5.56	23.33	50.00	5.56	83.33	14.00	28.33	5.67	54.67	40.00	23.33	31.11	25.00	8.22	61.89	14.56	84.56	55.00	33.33	33.33	50.00	22.22	S.Y.	SUBGRADE METHOD B	310(B)	
55.56	55.56	16.67	61.56	141.11	16.67	234.44	37.56	67.56	16.67	129.56	101.78	61.56	75.33	60.00	24.44	147.33	44.67	192.22	132.44	80.44	22.28	116.67	55.56	S.Y.	SEPARATOR FABRIC	325	
																										1	l

_	_	_	_				_			_			_				_				
	23	23	23	23	23	23	21	21	21	21	21	20	20	20	20	20	20		SHEET NO.		
	45+47.85	44+40.65	43+32.50	42+35.75	42+07.43	41+36.07	22+71.00	22+38.18	22+35.43	22+17.63	22+16.81	17-52.06	16+71.40	16+71.33	16-52.64	13+25.00	11+90.00		STATION		
	ᇹ	7	ᇹ	ᇹ	ᇹ	ᇹ	ᇹ	7	7	ᇹ	7	70	ᇹ	10	ᇹ	ᇹ	ᇹ		0		
	46+08.10	44+46.40	43+48.50	4246.64	42+29.35	41-57.42	22+78.44	22+43.18	22+40.43	22+32.81	22+30.05	17+68.06	16+76.40	16+84.64	16+65.96	14+03.49	12+06.00		STATION TO STATION		SUMMARY OF CURB & GUTTER
TOTALS	LT.	LT.	LT.	LT.	RT.	RT.	RT.	LT.	RT.	LT.	RT.	RT.	RT.	LT.	LT.	LT.	RT.		LOCATION		OF CL
27.39	4.84	0.46	1.28	0.87	1.76	1.71	0.60	0.40	0.40	1.22	1.06	1.88	0.59	1.07	1.07	6.30	1.88	C.Y.	AGGREGATE BASE TYPE A	303(A)	IRB & GU
44.86	7.25	0.69	1.93	1.31	2.64	2.57	0.90	0.60	0.60	1.83	1.59	1.93	0.60	2.34	2.34	13.81	1.93	S.Y.	SUBGRADE METHOD B	310(B)	JITER
85.805	55.79	5.32	14.82	10.08	20.30	19.77	6.89	4.63	4.63	14.06	12.26	18.37	5.74	12.33	12.33	72.68	18.37	S.Y.	SEPARATOR FABRIC	325	
324.14	60.25	5.75	16.00	10.89	21.92	21.35	7.44	5.00	5.00	15.18	13.24	16.00	5.00	13.31	13.32	78.49	16.00	LF.	2'-2" COMB. CURB & GUTTER (6" BARRIER)	609(B)	

	23	22	21	21	20		SHEET NO.			
SIVIUI	40±40.00 TO 46±07.73	30+76.00 TO 36+50.00	22+77.53 TO 26+00.78	18+00.00 TO 22+77.53	10+67.35 TO 18+00.00		STATION TO STATION		SI	
7 588 00	1,445.00	1,660.00	1,280.00	1,215.00	1,988.00	S.Y.	FABRIC REINFORCEMENT	409(A)	SUMMARY OF SURFACING	
84164	161.83	185.87	135.24	136.06	222.63	TON	SUPERPAVE TYPE S4 (PG 64-22 OK)	411(C)	of Surf	
CS 0CD	80.92	92.93	67.62	68.03	111.32	NOT	SUPERPAVE TYPE S6 (PG 64-22 OK)	411(E)	-ACING	
20 302 3	1,444.89	1,659.46		1,214.80	1,987.68	S.Y.	COLD MILLING PAVEMENT	412		
18	-	-	1.00	1	1	EA.	MANHOLES ADJUST TO GRADE	612(A)		
300	-	-	-	•	2.00	EA.	VALVE BOXES ADJUST TO GRADE	612(E)		

	SI	SUMMARY OF SURFACING	OF SURF	-ACING			
		409(A)	411(C)	411(E)	412	612(A)	612(E)
0 10	TO STATION	FABRIC REINFORCEMENT	SUPERPAVE TYPE S4 (PG 64-22 OK)	SUPERPAVE TYPE S6 (PG 64-22 OK)	COLD MILLING PAVEMENT	MANHOLES ADJUST TO GRADE	VALVE BOXES ADJUST TO GRADE
		S.Y.	NOT	NOI	S.Y.	EA.	EA.
10	18+00.00	1,988.00	222.63	111.32	1,987.68		2.00
10 ;	22+77.53	1,215.00	136.06	68.03	1,214.80	ı	-
10	26+00.78	1,280.00	135.24	67.62		1.00	-
. 01	36+50.00	1,660.00	185.87	56.56	1,659.46	1	-
10	46+07.73	1,445.00	161.83	80.92	1,444.89	1.	-
	TOTALS	7,588.00	841.64	420.82	6,306.83	1.00	2.00

SUMM/

ARY OF EARTHWORK

202(A)

STATION TO STATION

UNCLASSIFIED EXCAVATION

\$DATE\$

BY DATE

PROFILE SCALE
HORIZONTAL:
N/A
VERTICAL:
N/A

ALE DAMIGR. 2014 | 10/23

ALE LEAD MIGR. 2014 | 10/23

ALE LEAD MIGR. 2014 | 10/23

FELD MIGR. 2

PROJECT NO. 2036N3081Z

NON-ARTERIAL STREET REHABILITATION AND WATERLINE REPLACEMENT FOR MAINTENANCE ZONE 3081

CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT

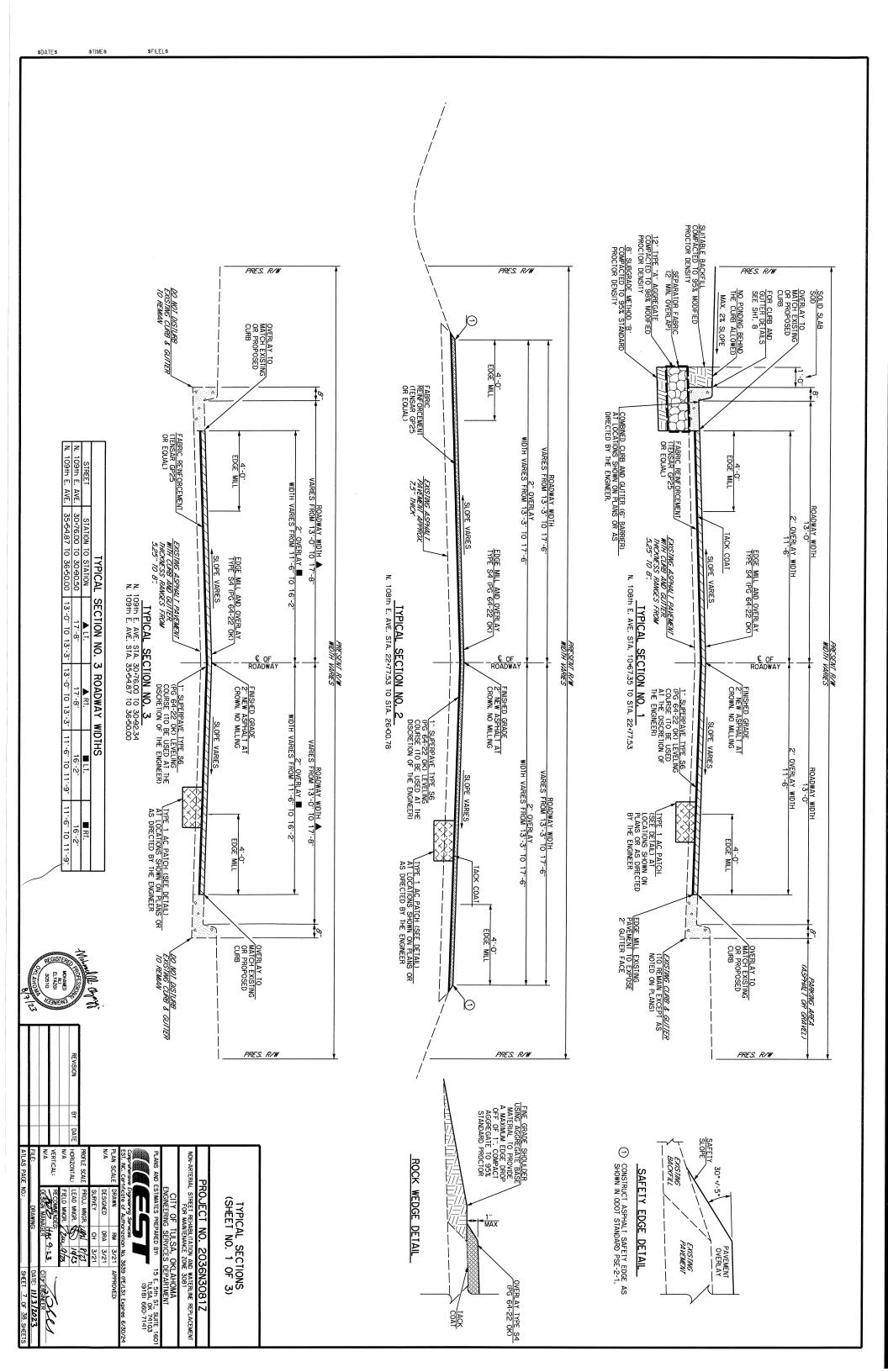
PLANS AND ESTIMATES PREPARED BY: 15 E. 5 IN ST., SUITE 1601

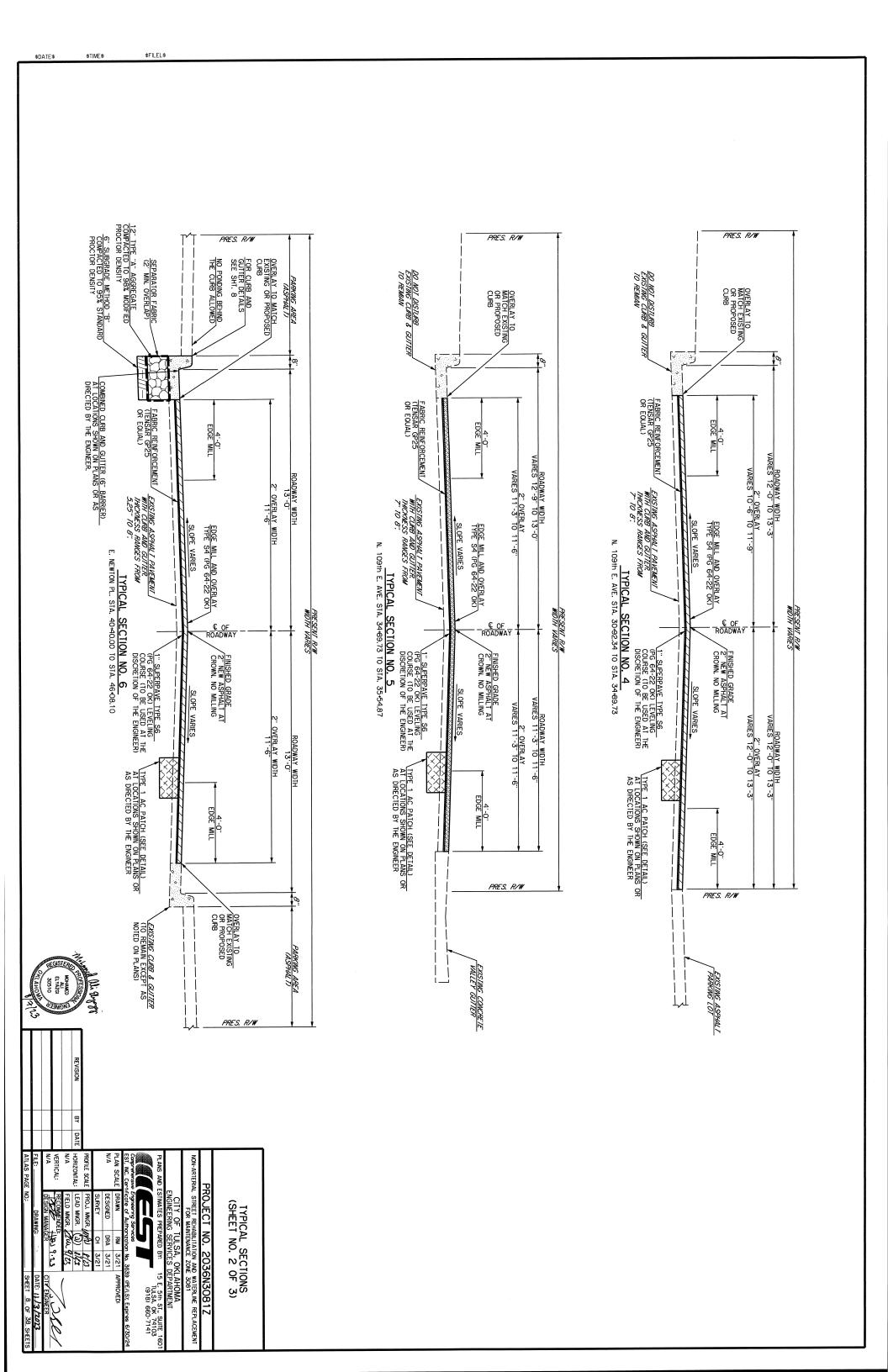
15 E, 5th SI., SUITE 1601 IULSA, OK 74103 (918) 660-7141

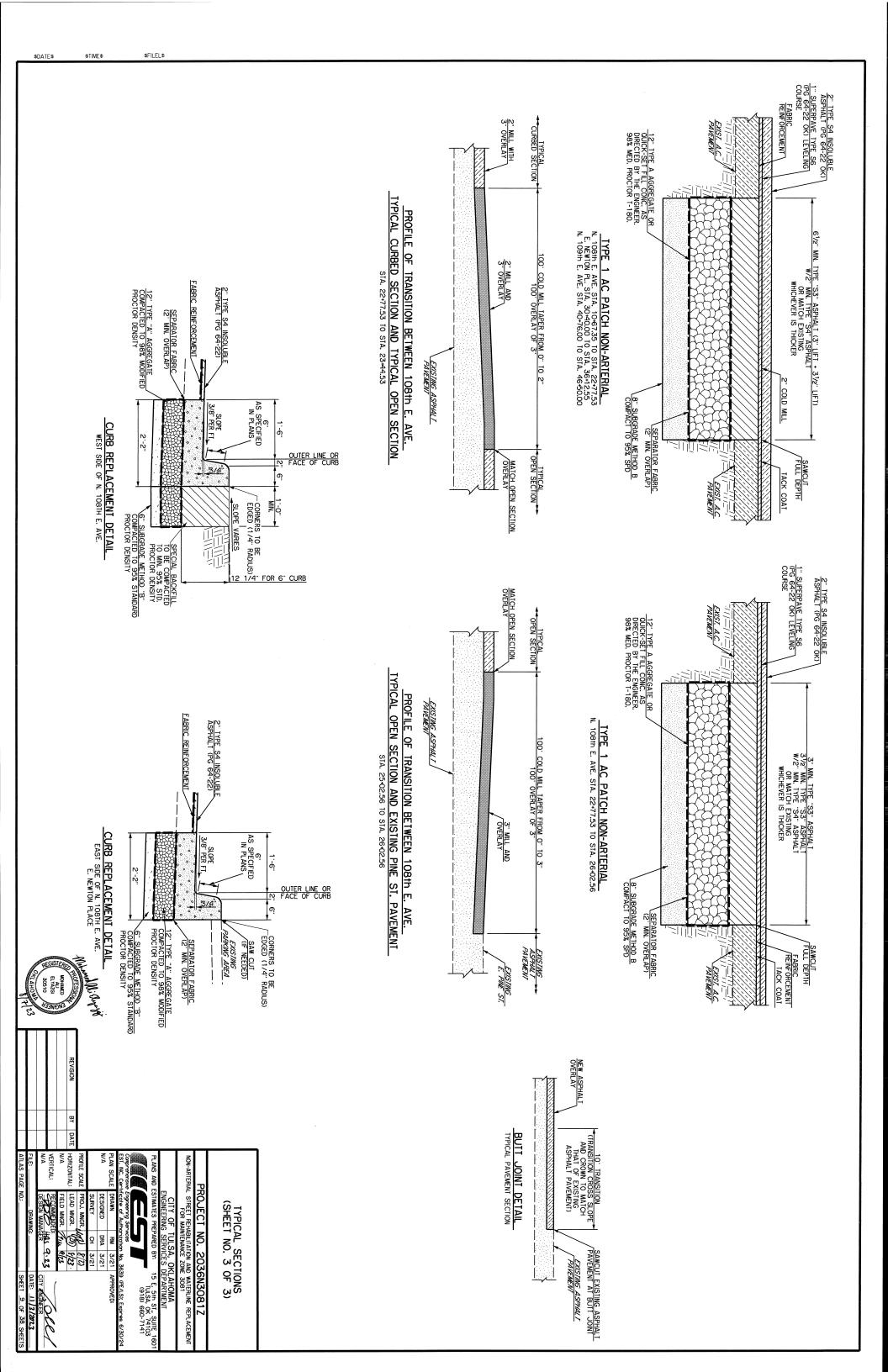
SUMMARY SHEETS (SHEET NO. 2 OF 2)

			<u> </u>	880(B)	88	St S	JMMARY 88	₹Y OF	TRA	TRAFFIC CC	SUMMARY OF TRAFFIC CONTROL 880(B) 880(C)		TRAFFIC CONTROL 880(C) 880(E)	880(E)		880(E) 880(E)	880(E)	880(E) 880(E)
	SIGN	SIGN AREA	CONS 0 6.2	CONST. SIGNS 0 S.F. TO 6.25 S.F.	CONST 6.26 15.9	CONST. SIGNS 6.26 S.F. TO 15.99 S.F.	CONS 16. AN	CONST. SIGNS 16.0 S.F. AND UP		ONSI BARF	CONSTRUCTION BARRICADES (TYPE III)		ONSTRUCTION WARNING LIGHTS BARRICADES (TYPE III)	WARNING LIGHTS (TYPE A)		WARNING LIGHTS WARNING LIGHTS (TYPE A) (TYPE C)	WARNING LIGHTS (TYPE A)	WARNING LIGHTS WARNING LIGHTS (TYPE A) (TYPE C)
	IN. × IN.	S.F.	EA.	S.D.	EA.	S.D.	EA.	S.D.	EĄ.	- 1	S.D.	S.D. EA.	1	EA.	EA. S.D.	EA. S.D. EA.	EA. S.D. EA. S.D.	EA. S.D. EA. S.D. EA.
CS-13	24" X 12"	2.00	4.00	360.00						ı								
CS-14	24" X 18"	3.00	4.00	360.00														
G20-2A	36" X 18"	4.50	9.00	810.00														
R2-1(25)	24" X 30"	5.00	4.00	360.00			-			- 1								
R11-2(LANE)	48" X 30"	10.00			15.00	1,350.00				- 1								
W20-1 (AHEAD)	48" X 48"	16.00			~		6.00	540.00		' 1		6.00	6.00 540.00	\dashv	\dashv	\dashv	\dashv	\dashv
	TYPE III BARRICADES	ES							15.00	-	1,350.00	1,350.00 30.00	1,350.00 30.00	1,350.00 30.00	1,350.00 30.00	1,350.00 30.00	1,350.00 30.00	1,350.00 30.00
WAR	WARNING LIGHTS (TYPE A)	YE A)																
	DRUMS									1				107.00	107.00 9,630.00	\dashv	9,630.00	9,630.00 107.00
	FLAGGER										,							5.00
		TOTALS	21.00	1,890.00	15.00	1,350.00	6.00	540.00	15.00			1.350.00 36.00	1,350.00 36.00	1,350.00 36.00 3,240.00 107.00	1,350.00 36.00 3,240.00 107.00	1,350.00 36.00 3,240.00 107.00 9,630.00 107.00	1,350.00 36.00 3,240.00 107.00 9,630.00 107.00	1,350.00 36.00 3,240.00 107.00 9,630.00 107.00 9,630.00 5.00

	33	33	33	33	33	33	32	32	32	32	32	32	32	32	32	32	31	31	31	31	30	30	30	30	30	30		SHEET NO.		
	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	==	10	9	8	7	6	رن ر	4	3	2	_		SIGN NO.		
	46+07.75	46+07.75	40+25.15	40+25.15	40+25.15	40+25.15	36+30.00	36+30.00	36+30.00	36+30.00	32+71.50	32+02.75	31+93.00	30+59.36	30+59.36	30-59.36	25+73.50	25+73.50	25+73.50	25+73.50	14+92.86	14+92.86	14+92.86	1047.10	10+47.10	10+47.10		STATION		
	C/L	C/L	RT.	LT.	LT.	LT.	RT.	RT.	ĽĪ.	ĽĪ.	RT.	Lī.	RT.	Lī.	Lī.	Lī.	RT.	RT.	RT.	RT.	RT.	RT.	RT.	RT.	RT.	RT.		LOCATION		
	NEWTON PL.	NEWTON PL.	NEWTON PL.	NEWTON PL.	NEWTON PL.	NEWTON PL.	109th E. AVE.	109th E. AVE.	109th E. AVE.	109th E. AVE.	109th E. AVE.	109th E. AVE.	109th E. AVE.	109th E. AVE.	109th E. AVE.	109th E. AVE.	108th E. AVE.	108th E. AVE.	108th E. AVE.	108th E. AVE.	108th E. AVE.	108th E. AVE.	108th E. AVE.	108th E. AVE.	108th E. AVE.	108th E. AVE.		STREET NAME		
	TYPE 4 OBJECT MARKER	TYPE 4 OBJECT MARKER	DEAD END	STOP SIGN	STREET NAME (N. 108th E. AVE.) (2-SINGLE-SIDED)	STREET NAME (E. NEWTON PL.) (2-SINGLE-SIDED)	CITY OF TULSA	COT TRAINING CENTER		ENTER		NO PARKING THIS SIDE	SPEED LIMIT 25	STOP SIGN	STREET NAME (E. ADMIRAL PL.) (2-SINGLE-SIDED)	STREET NAME (N. 109th E. AVE.) (2-SINGLE-SIDED)	STOP SIGN	STREET NAME (1400 BLK. N. 108th E. AVE.) (2-SINGLE-SIDED)	STREET NAME (E. PINE ST.) (2-SINGLE-SIDED)	NO LEFT TURN		ĵ.	STREET NAME (E. NEWTON PL.) (2-SINGLE-SIDED)	STOP SIGN		STREET NAME (E. NEWTON ST.) (2-SINGLE-SIDED)		DESCRIPTION		SUMMARY OF SIGNS
	OM4-3	OM4-3	W14-1	R1-1	D3-1	D3-1	SPECIAL SIGN NO. 3	SPECIAL SIGN NO. 2	ō.	SPECIAL SIGN NO. 2	SPECIAL SIGN NO. 1	SIGN	R2-1(25)	R1-1	D3-1	D3-1	R1-1	D3-1	D3-1	R3-2	R1-1	D3-1	D3-1	R1-1	D3-1	D3-1		OF SIGN		
TOTALS	×	18" X 18"	×	×	×	×	×	×	×	×	12" X 18"	12" X 18"	24" X 30"	30" X 30"	6" x 30"	6" x 30"	30" x 30"	9" x 36"	9" x 36"		30" × 30"	6" x 30"	6" x 30"	30" X 30"	×	6" × 30"		SIGN DIMENSIONS		
98.50	2.25			6.25	2.50	2.50					1.50												2.50	T	2.50	2.50	S.F.	GROUND SIGN	608(A)	
12.00				2.00										2.00			2.00			2.00	2.00			2.00			ĽF.	1-1/2" SIGN POST	608(C)	
228.00	15.00	15.00	15.00	15.00			15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00			18.00				15.00			15.00			ĽF.	1-3/4" SIGN POST	608(D)	
45.00	3.00	3.00	3.00	3.00			3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00			3.00				3.00			3.00			LF.	2" SIGN POST	608(E)	







SURVEY CONTROL DATA

HORIZONTAL CONTROL:

HORIZONTAL CONTROL FOR THIS SURVEY IS NAD 83 (1993) OKLAHOMA STATE PLANE COORINATE SYSTEM, NORTH ZONE 3501.

VERTICAL CONTROL: ACCURACY-1ST ORDER OR BETTER,

LEVEL DATUM IN NAVD 1988. ACCURACY-1st ORDER OR BETTER.

PERMANENT BENCHMARKS:

Z 10 -281 N. MINGO RD. SEC. LINE NS-401 SEC. LINE EW-59 SEC. LINE EW-58 3 N. 105th E. AVE. 169 R13E E. MARSHALL ST. N, 109th E. AVE. E. INDEPENDENCE ST. ₩#1 **→** BM#5 BM#2 BM#4 E. NEWTON ST. 244 N. GARNETT RD. SEC. LINE NS-402

8 638.42 BM 1/2" REBAR WITH CAP
O 638.36 BM 1/2" REBAR WITH CAP
7, 627.66 BM 1/2" REBAR WITH CAP
4 628.56 BM 1/2" REBAR WITH CAP
5 622.73 BM 1/2" REBAR WITH CAP
6 621.11 BM 1/2" REBAR WITH CAP
6 621.11 BM 1/2" REBAR WITH CAP
70 625.84 BM 1/2" REBAR WITH CAP
10 628.68 CITY OF TULSA BM "COT-510
10 616.70 CITY OF TULSA BM "JU" BENCHMARK TABLE STATION/OFF SET

CERTIFICATE OF SURVEY

Cary E. Harris, Oklahoma Licensed Proffesional

I Hereby certify that on March 10, 2021 that a sur supervision of the property desched above an that conect representation of said survey. I also certify Minimum Standards for practice of Land Surveying as State board of Registration for Professional Enginee a survey was made under my direct in that the above plot is a true and writry that this plat meets Oklahoma ing as adopted by the Oklahoma igneers and Land Surveyors. No. 1719 Date

PLAN SCALE 1" = 1,000" CEH RM

TULSA, OK 74103 (918) 660-7141

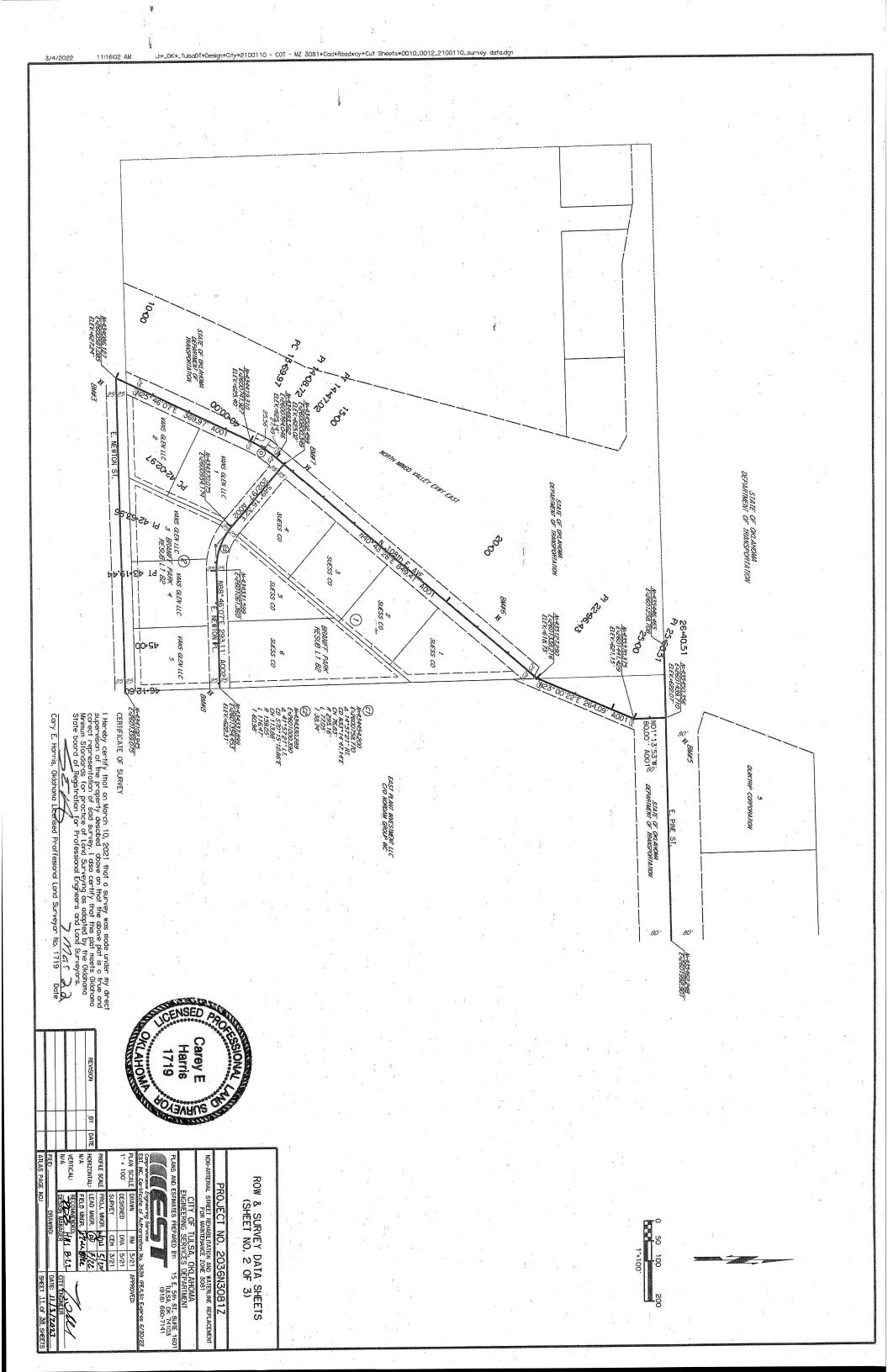
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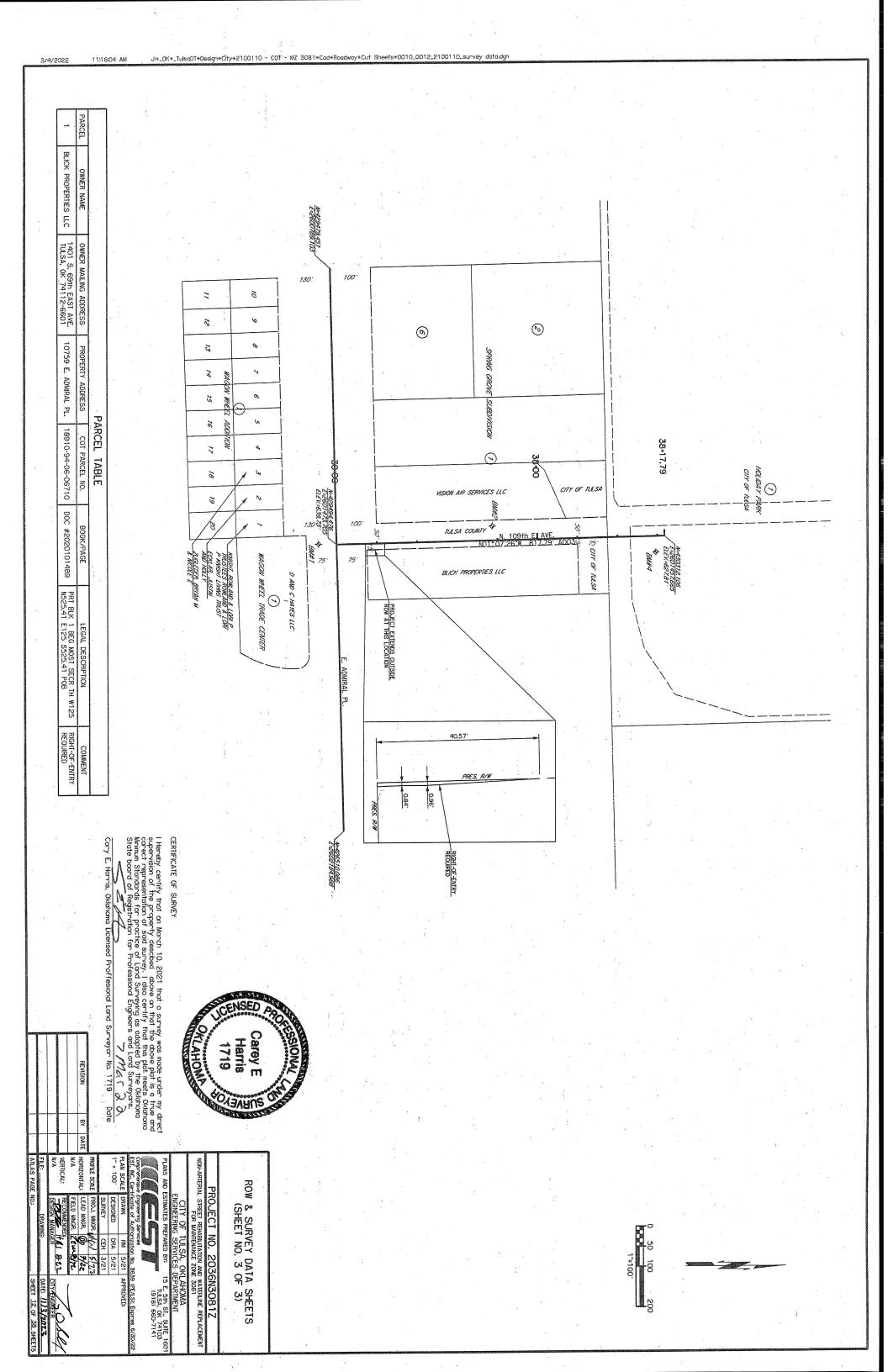
Carey E Harris 1719

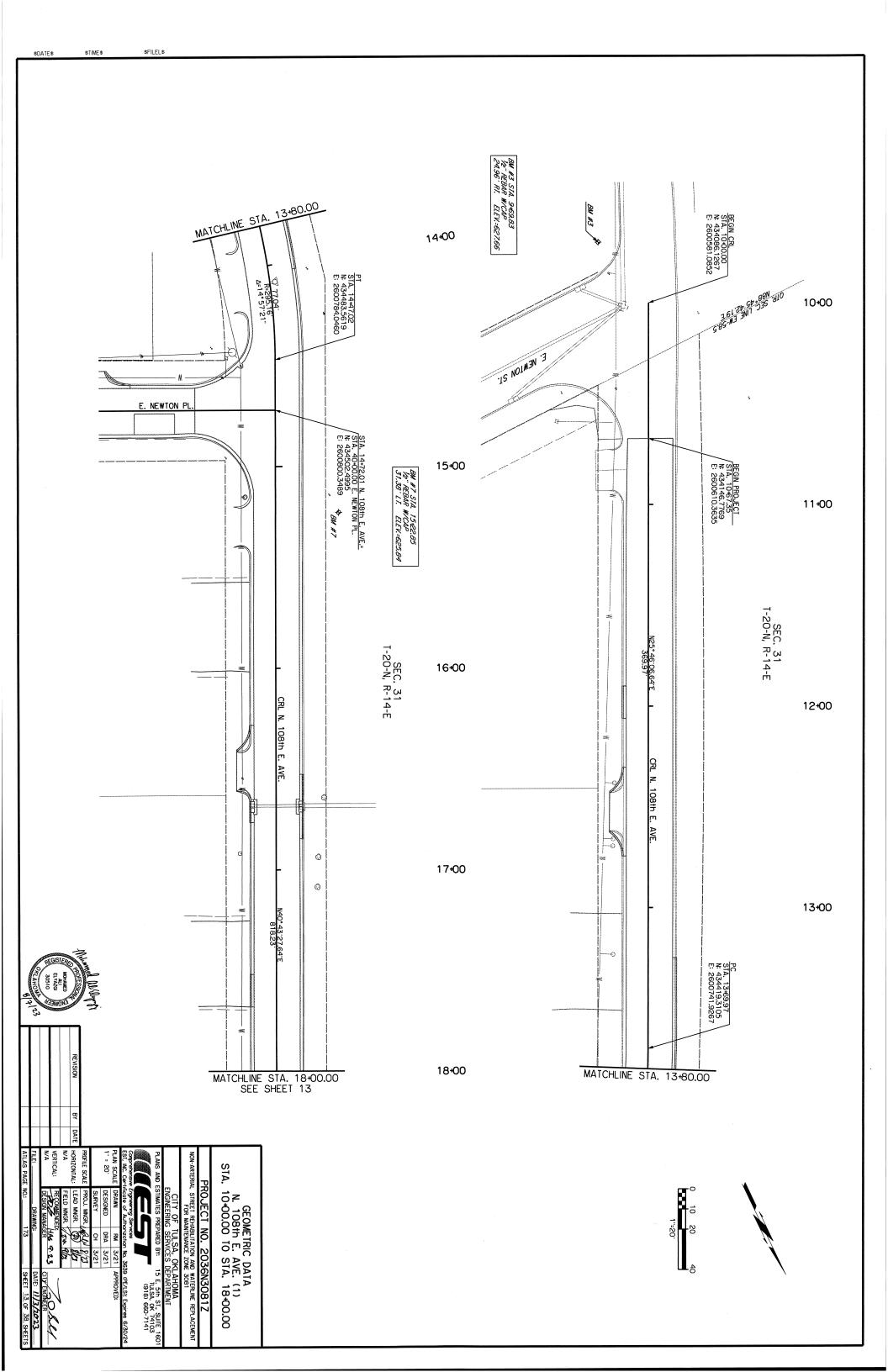
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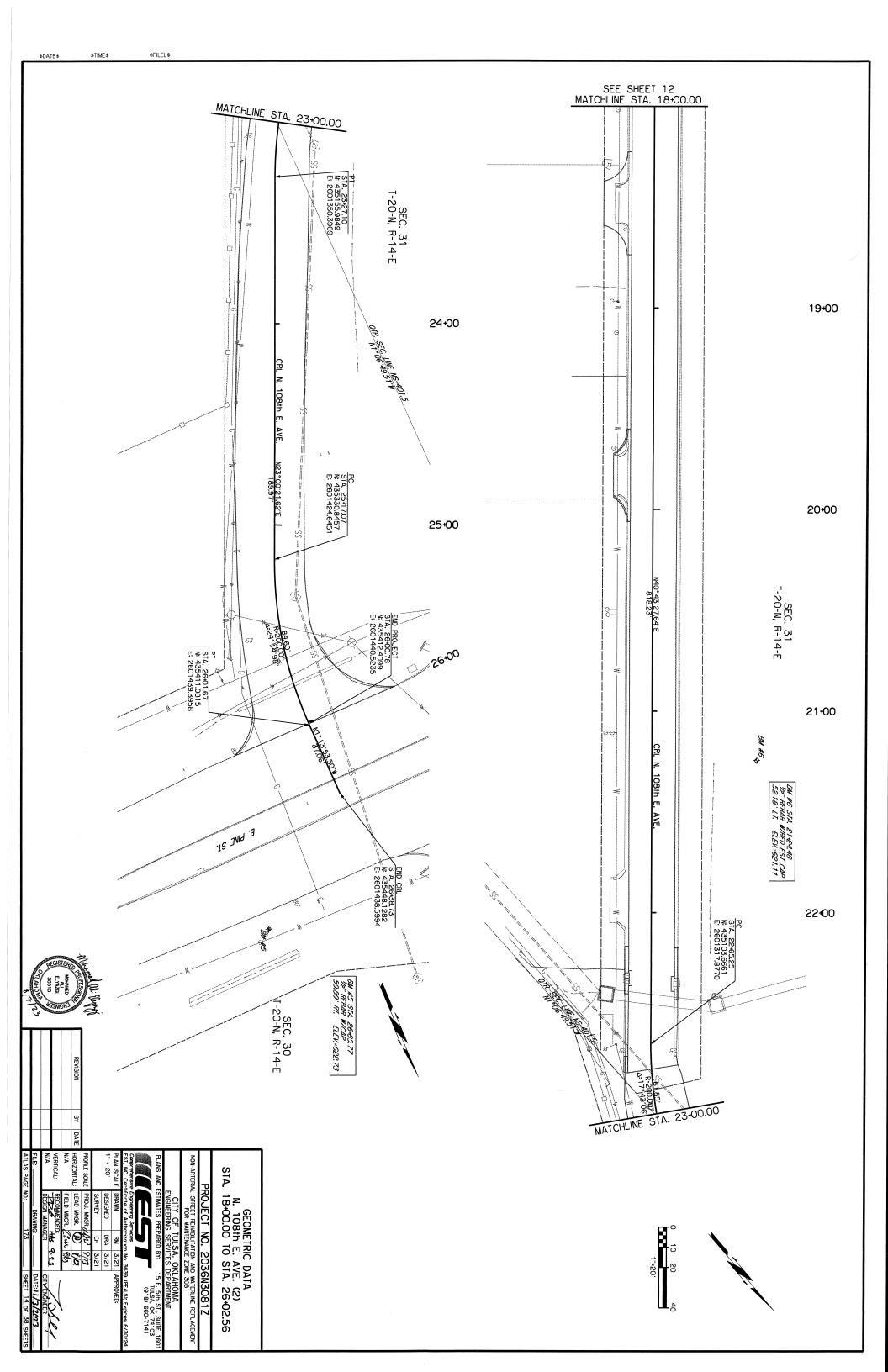
NON-ARTERIAL STREET REHABILITATION AND WATERLINE REPLACEMENT FOR MAINTENANCE ZONE 3081

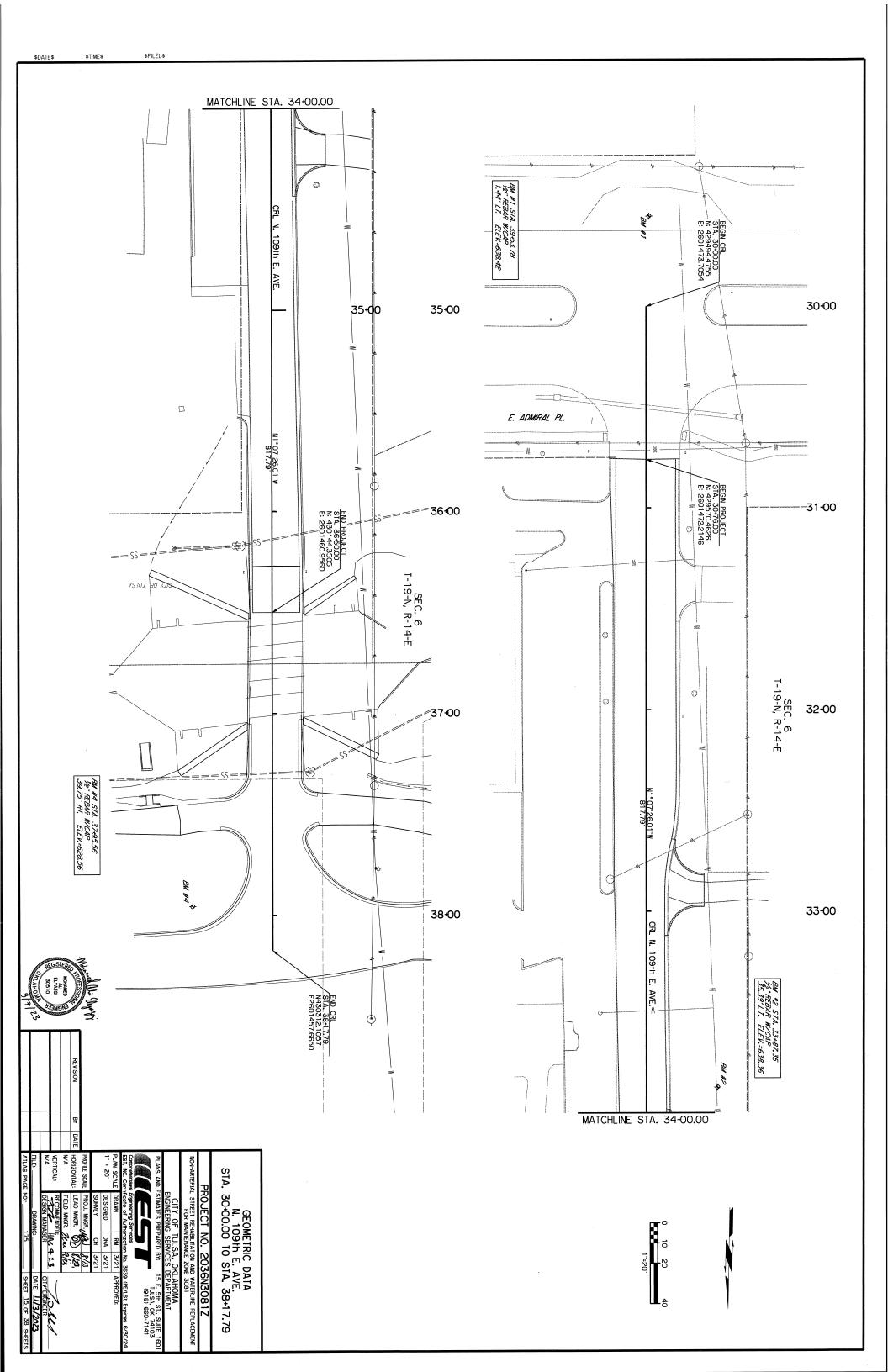
ROW & SURVEY DATA SHEETS (SHEET NO. 1 OF 3)

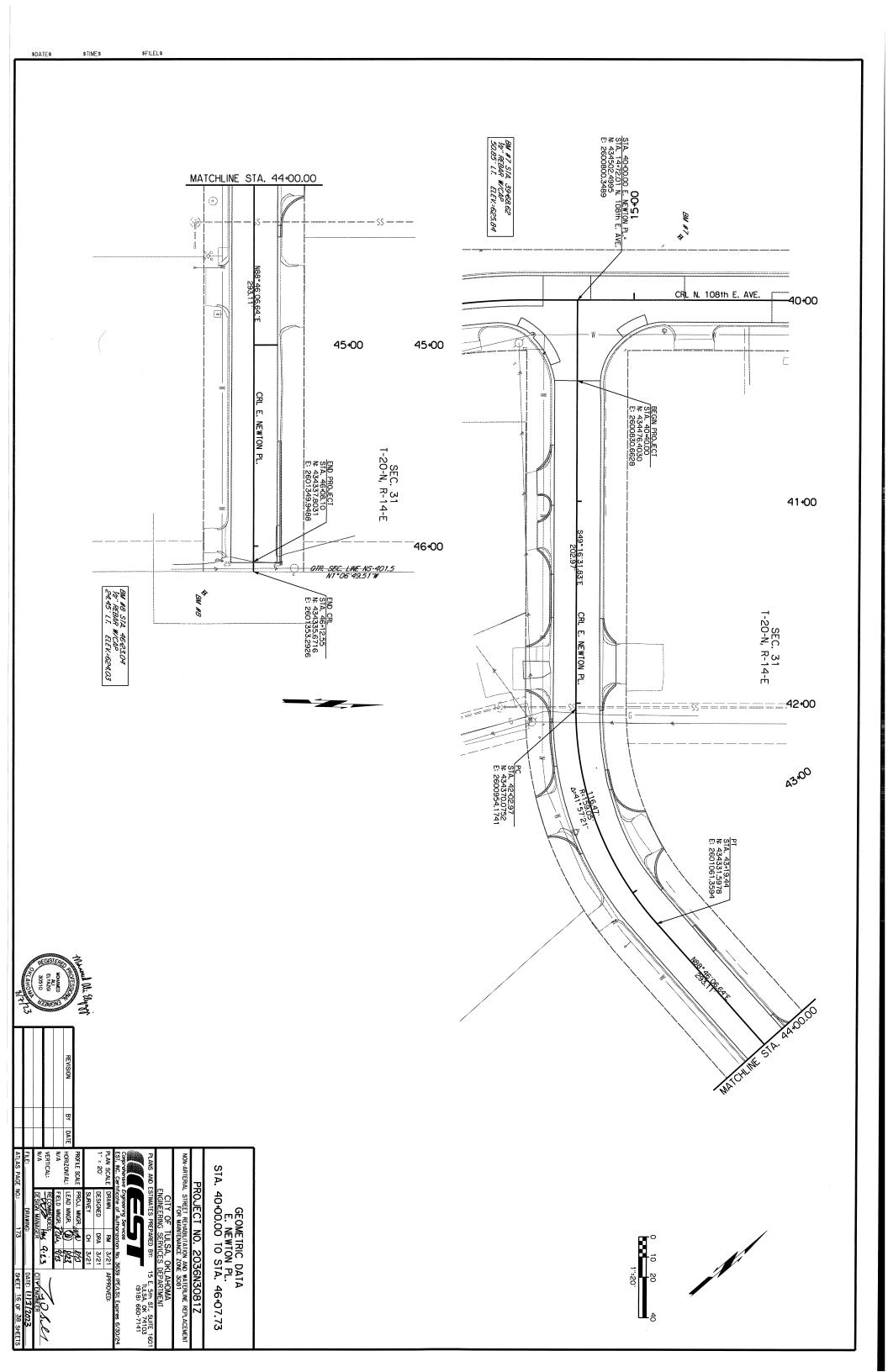


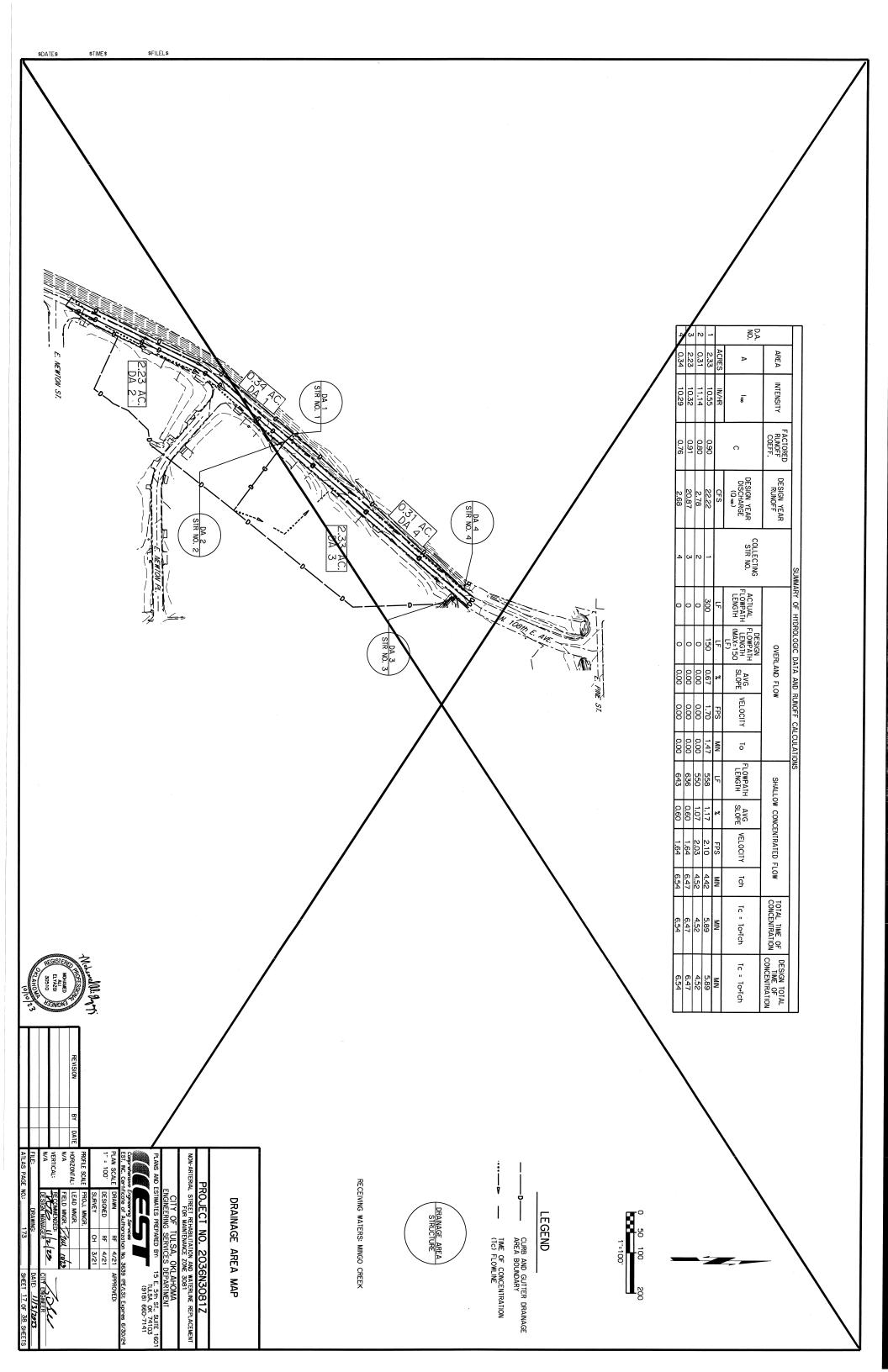












STORM WATER MANAGEMENT PLAN

SITE DESCRIPTION

PROJECT LIMITS: N. 108th EAST AVE. FROM E. NEWTON ST. TO E. PINE ST., E. NEWTON PL. FROM OF THE CITY OF TULSA SAFETY TRAINING CENTER. N. 108th EAST AVE. TO THE DEAD-END, AND N. 109th EAST AVE. FROM E. ADMIRAL PL. TO THE ENTRANCE

 $\operatorname{PROJECT}$ $\operatorname{DESCRIPTION}$: _PAVEMENT REHABILITATION, MILLING, PATCHING AND OVERLAY, AND

REPLACEMENT OF STORM WATER INLETS, AS DIRECTED BY THE ENGINEER

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:

CONTRACTOR MAY CHOOSE TO MODIFY THE TYPE OR ARRANGEMENT OF SPECIFIED PRACTICES TO IMPROVE THEIR CONTROLS SPECIFIED. STRIP, STOCKPILE AND STABILIZE TOPSOIL. CLEAR AND GRUB ONLY IN NECESSARY AREAS MAJOR SOIL DISTURBANCE ACTIVITIES AND ALSO THE DATES OF INSTALLATION OF EROSION CONTROL MEASURES EFFECTIVENESS, AS APPROVED BY THE ENGINEER. THE CONTRACTOR WILL MAINTAIN A LOG OF THE DATES OF ACCEPTABLE VEGETATIVE COVER (AT LEAST 70%) HAS BEEN ATTAINED. AS SITE CONDITIONS WARRANT, THE IMMEDIATELY INSTALL PERMANENT GRASSING ITEMS. REMOVE TEMPORARY SEDIMENT DEVICES WHEN AN SEDIMENT ITEMS, AS PRACTICAL, WITH CONSTRUCTION OPERATIONS. REPLACE SALVAGED TOPSOIL AND PRESERVING AS MUCH NATIVE VEGETATION AS POSSIBLE. INSTALL, MAINTAIN AND/OR MOVE TEMPORARY PRIOR TO INITIATING SOIL DISTURBING ACTIVITIES, THE CONTRACTOR WILL INSTALL ALL TEMPORARY SEDIMENT

DENNIS SILT LOAM, OKEMAH-PARSONS-PHAROAH COMPLEX, RADLEY SILT LOAM.

TOTAL AREA OF THE CONSTRUCTION SITE: 1.91 AC

OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)

ESTIMATED AREA TO BE DISTURBED: 1.68 AC

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 1.88 AC.

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 1.91 AC.

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.89

LATITUDE & LONGITUDE
OF CENTER OF PROJECT: LATITUDE 36° 10' 10.96" N, LONGITUDE 95° 51' 21.36" W

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: COOLEY CREEK, MINGO CREEK

SENSITIVE WATERS OR WATERSHEDS:

YES

IF YES, LIST IMPAIRMENT: 303(d) IMPAIRED WATERS: YES

> NO × NO ×

LOCATED IN A TMDL: YES × ON

\$FILEL\$

LAKE THUNDERBIRD TMDL: YES [× on

MS4 ENTITY

YES X

No

IF YES, LOCATION: TULSA

\$TIME\$

NOTE:
THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE MAP THAT
THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE MAP THAT
ILLUSTRATES THE DRAINAGE PATTERNS/PATHWAYS AND RECEIVING WATERS
FOR THIS PROJECT. THIS SHEET SHOULD ALSO BE USED WITH THE EROSION
CONTROL SUMMARIES, PAY ITEMS, & NOTES.

\$DATE\$

SOIL STABILIZATION PRACTICES

- PERMANENT SODDING, SPRIGGING OR SEEDING
- VEGETATIVE MULCHING
- SOIL RETENTION BLANKET

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETA, TIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ON 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.

MAINTENANCE AND INSPECTION:

THE CONTRACTOR SHALL FOLLOWING:

ALSO BE RESPONSIBLE FOR THE

PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES

- STABILIZED CONSTRUCTION EXIT
- TEMPORARY SILT FENCE
- TEMPORARY FIBER LOG

GENERAL NOTES:

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.

HAZARDOUS 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 AGENCIES.

- DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- TEMPORARY DIVERSION CHANNELS
- TEMPORARY SEDIMENT FILTERS
- TEMPORARY SEDIMENT REMOVAL
- RIP RAP
- SANDBAG BERMS

OFFSITE VEHICLE TRACKING

- X HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- × EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

EROSION AND SEDIMENT ONTROLS

- TEMPORARY SEEDING

WASTE MATERIALS:

- TEMPORARY SILT DIKES
- DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- ROCK FILTER DAMS
- TEMPORARY SLOPE DRAIN

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 JOBS 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 PTS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES, RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DIE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION OF THESE POLLUTIANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR INTERCEPTION OF THESE POLLUTIANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR INTERCEPTION OF THESE POLLUTIANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR

THE FOLLOWING SECTIONS OF THE 2019 ODOT STANDARD SPECIFICATIONS SHOULD

- PAVED DITCH W/ DITCH LINER PROTECTION
- TEMPORARY SEDIMENT BASINS
- TEMPORARY SEDIMENT TRAPS

- INLET SEDIMENT FILTER

104.12

CONTRACTOR'S RESPONSIBILITY FOR WORK

BE NOTED:

103.05 BONDING REQUIREMENTS

FINAL CLEANING UP

- TEMPORARY BRUSH SEDIMENT BARRIERS
- TEMPORARY STREAM CROSSINGS

STORMWATER MANAGEMENT PLAN

CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ.

13, 2017.

ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM

N ADDITION:

107.20 STORM WATER MANAGEMENT

TEMPORARY SEDIMENT CONTROL

MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL

STORAGE AND HANDLING **ENVIRONMENTAL PROTECTION**

OF MATERIAL

LAWS, RULES AND REGULATIONS TO BE OBSERVED

107.01 106.08 104.13 104.10

WATER QUALITY DIVISION, SEPTEMBER

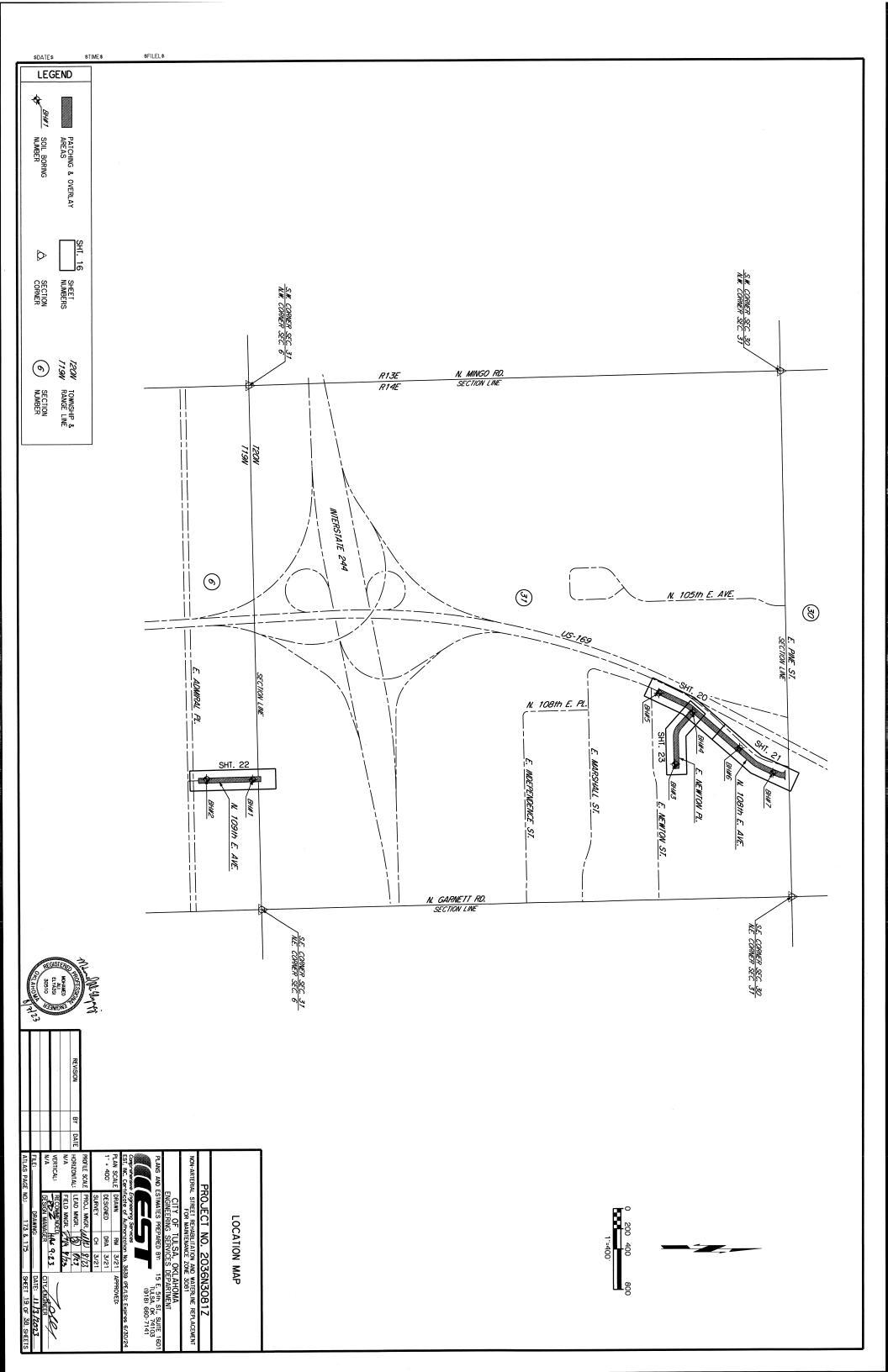
PROJECT NO. 2036N3081Z

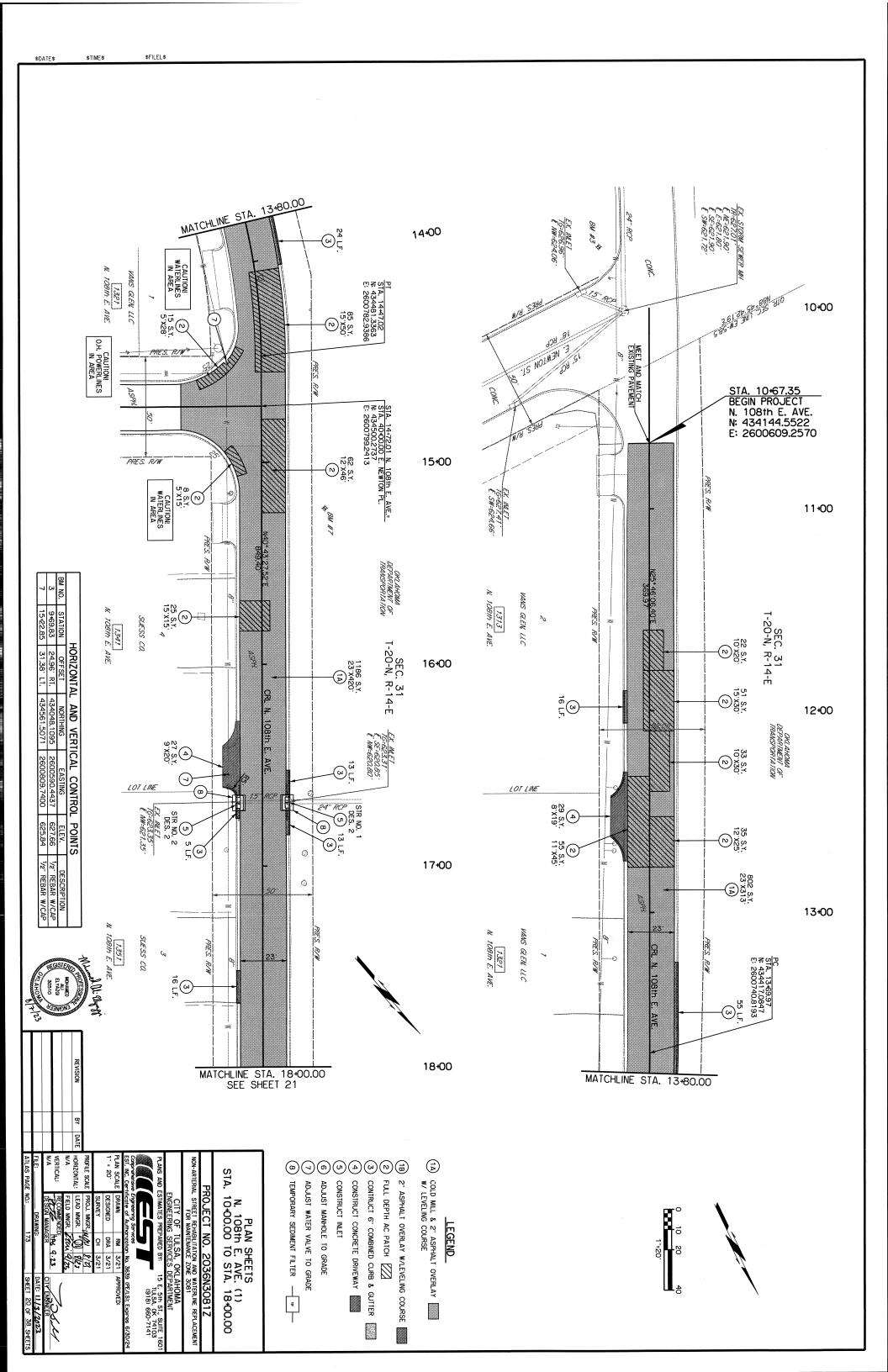
NON-ARTERIAL STREET REHABILITATION FOR MAINTENANCE ZONE WATERLINE REPLACEMENT 3081

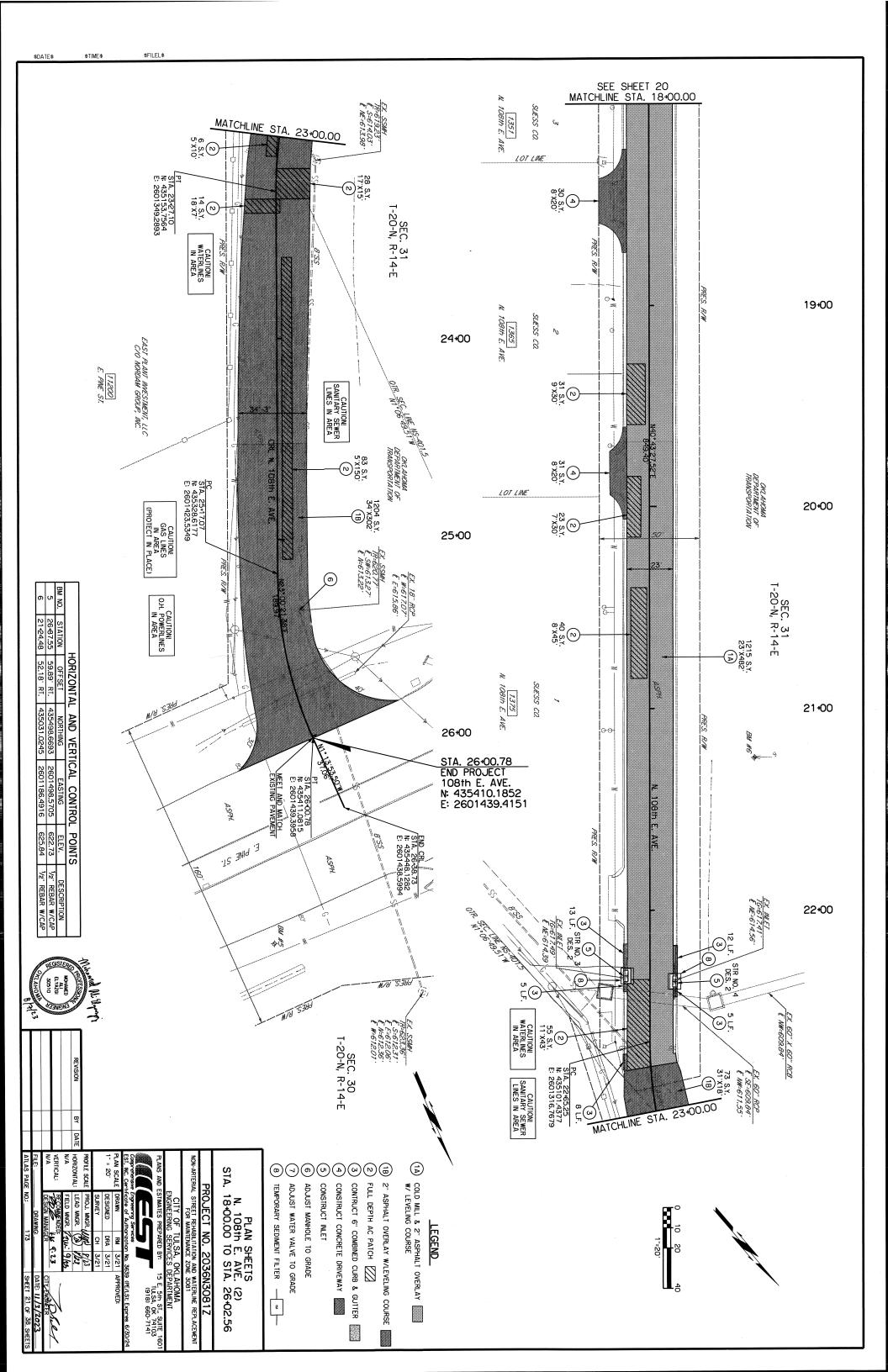
1ULSA, (918) SI, SUITE 1 1, OK 74103 1) 660-7141

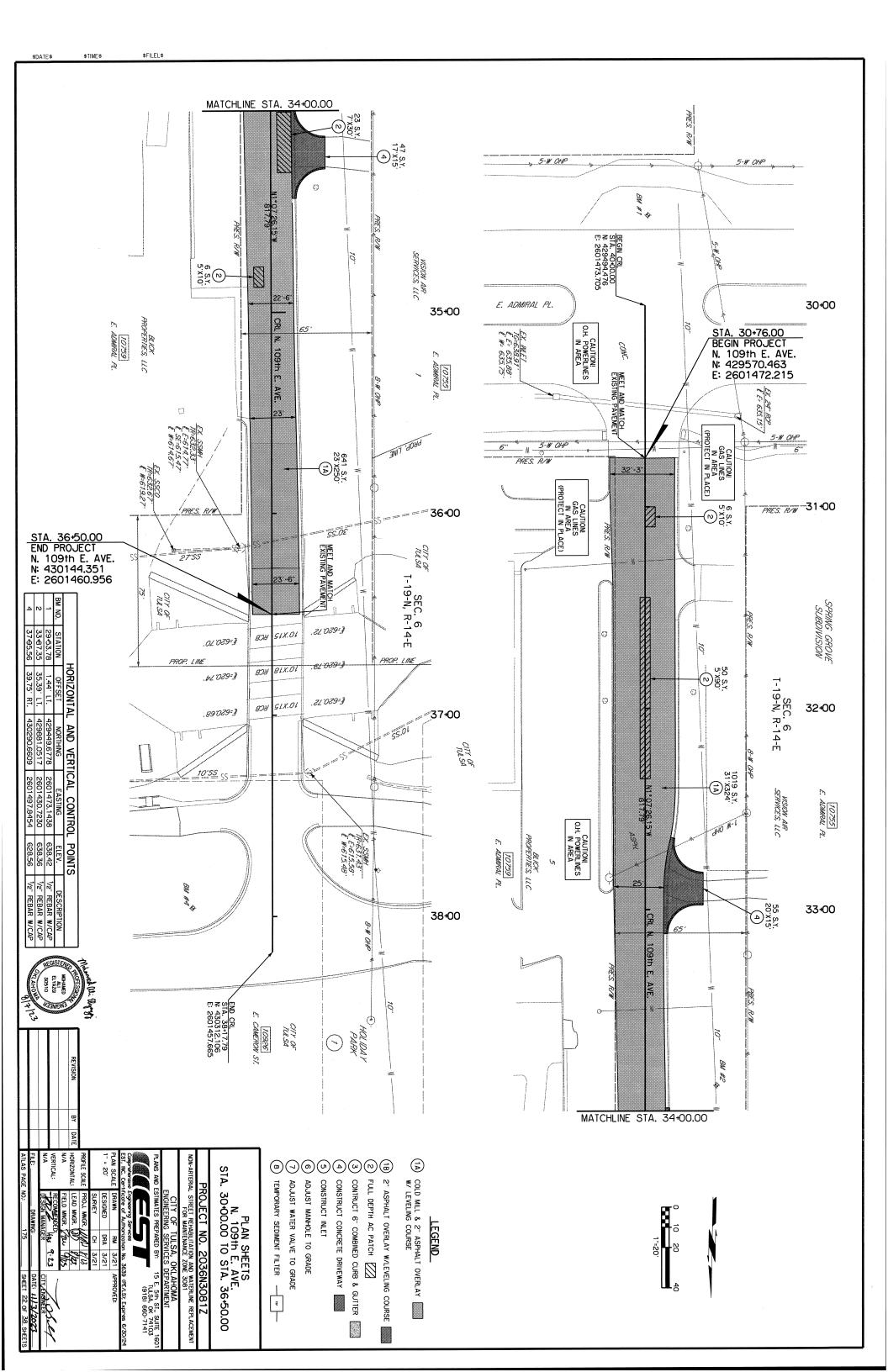
DATE HORIZONTAL: LEAD MNGR. FIELD MNGR. DESIGNED 100 9/23 DRA 3/21

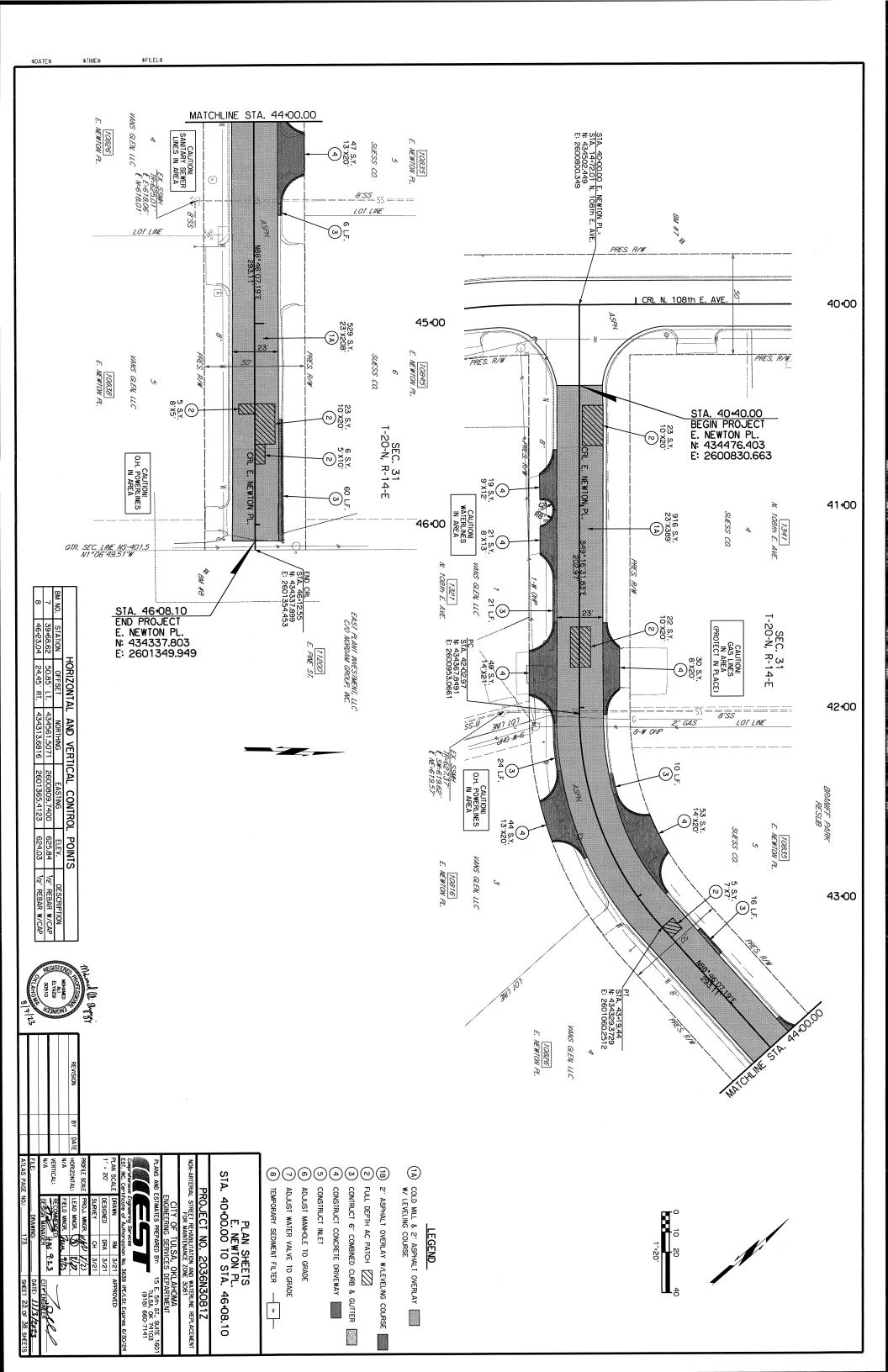
ಜ VERTICAL: N/A RECOMMENDED: Property Hou 9.13 DESIGN MANAGER

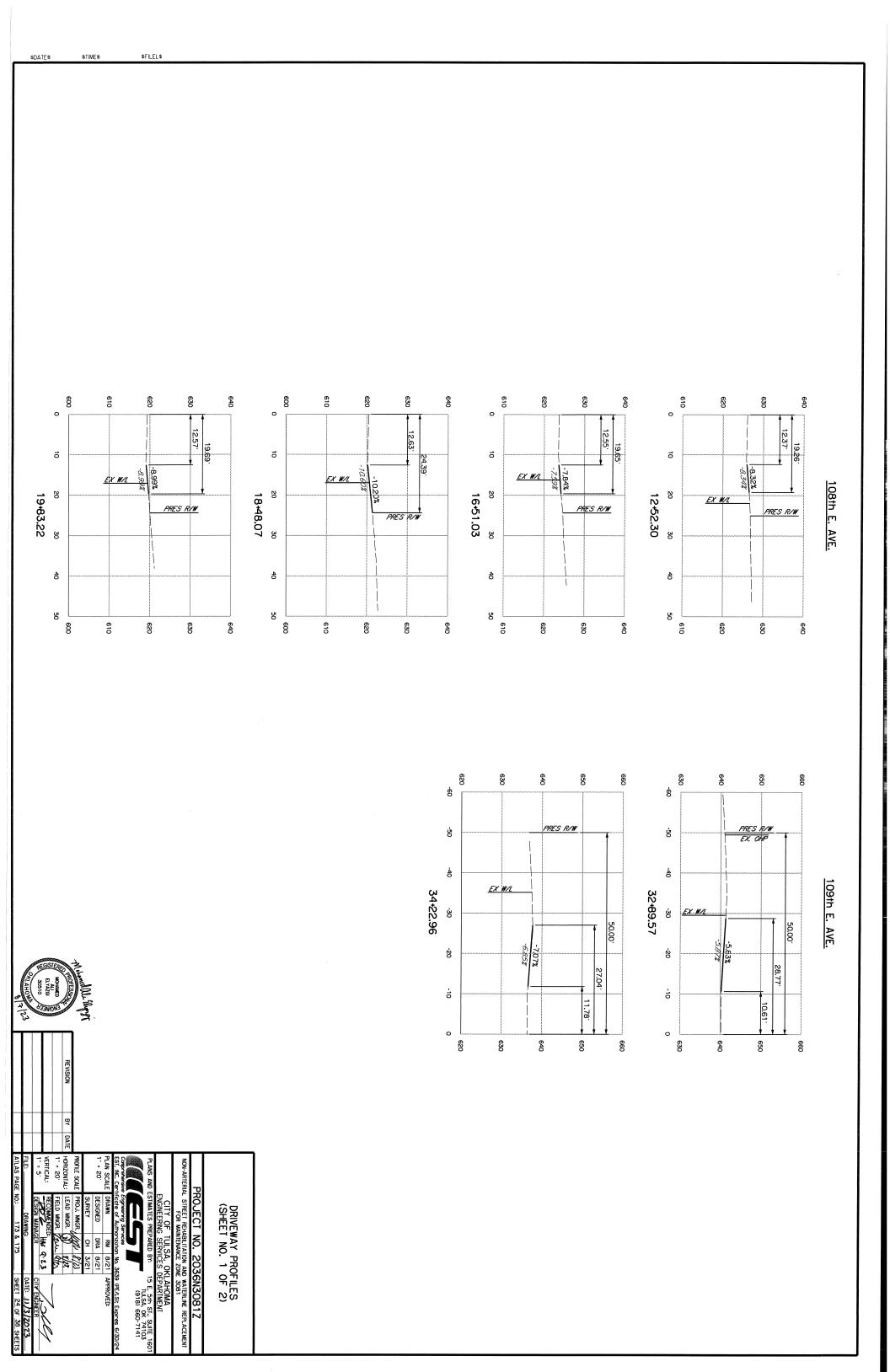


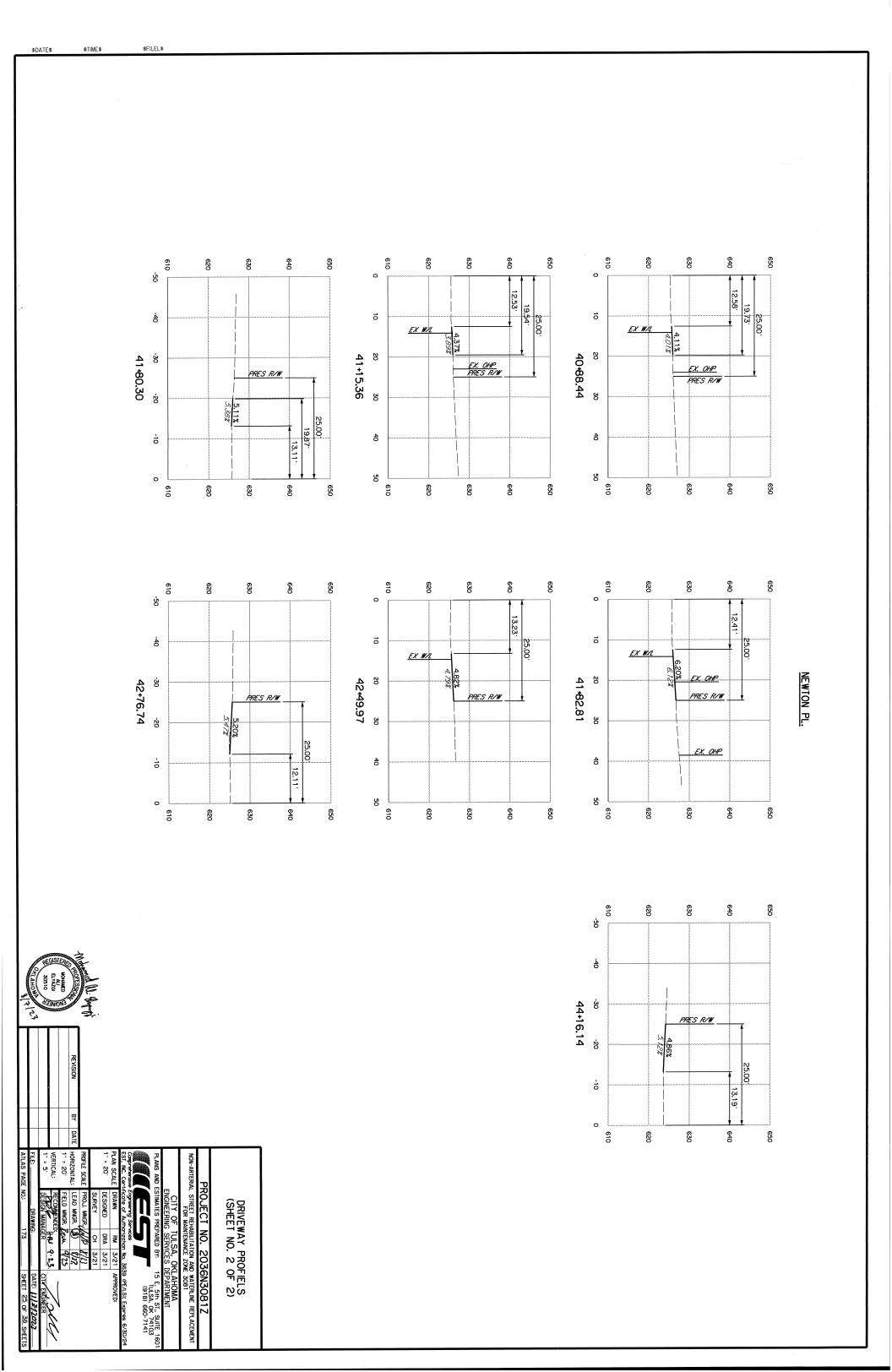


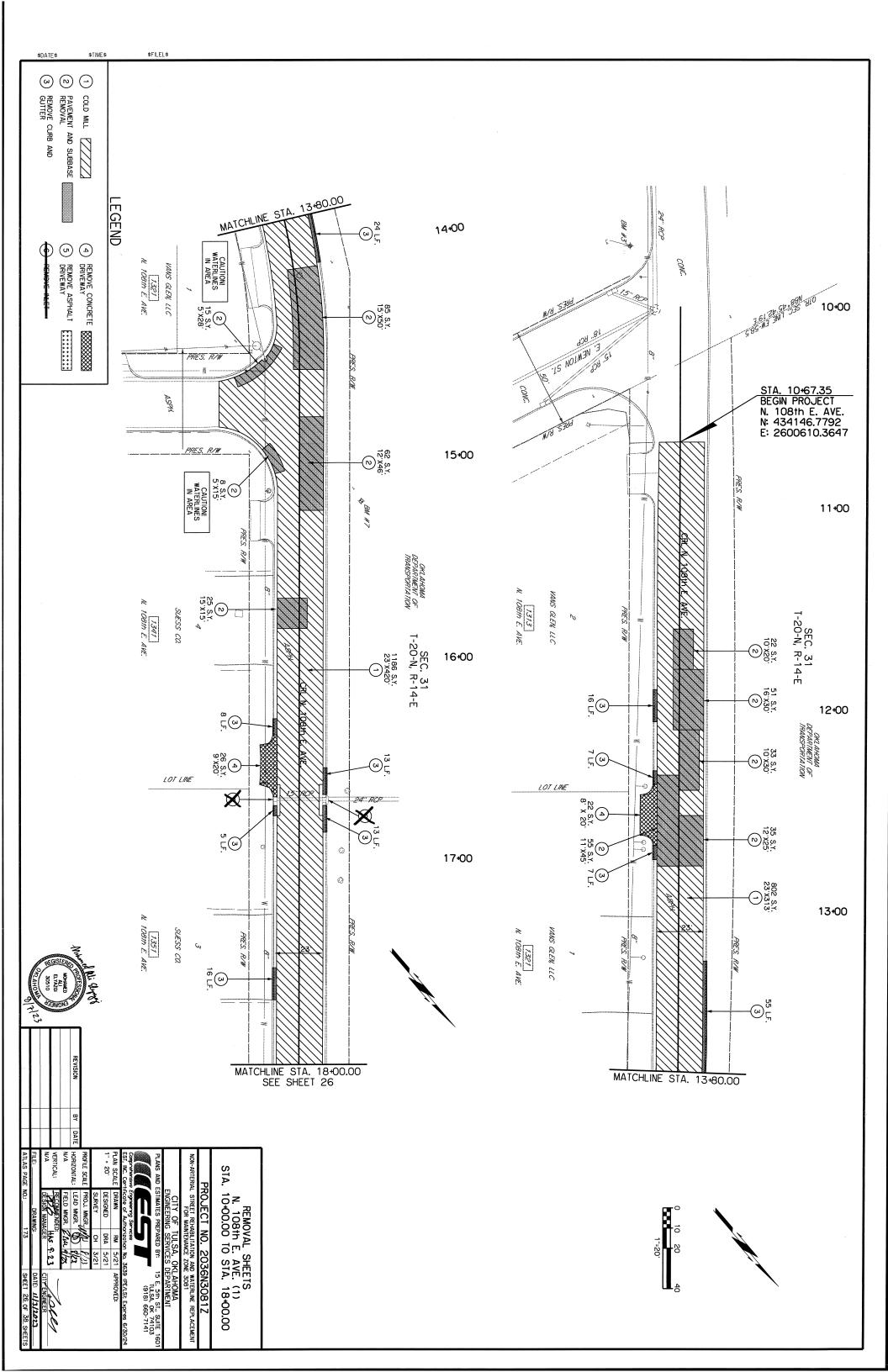


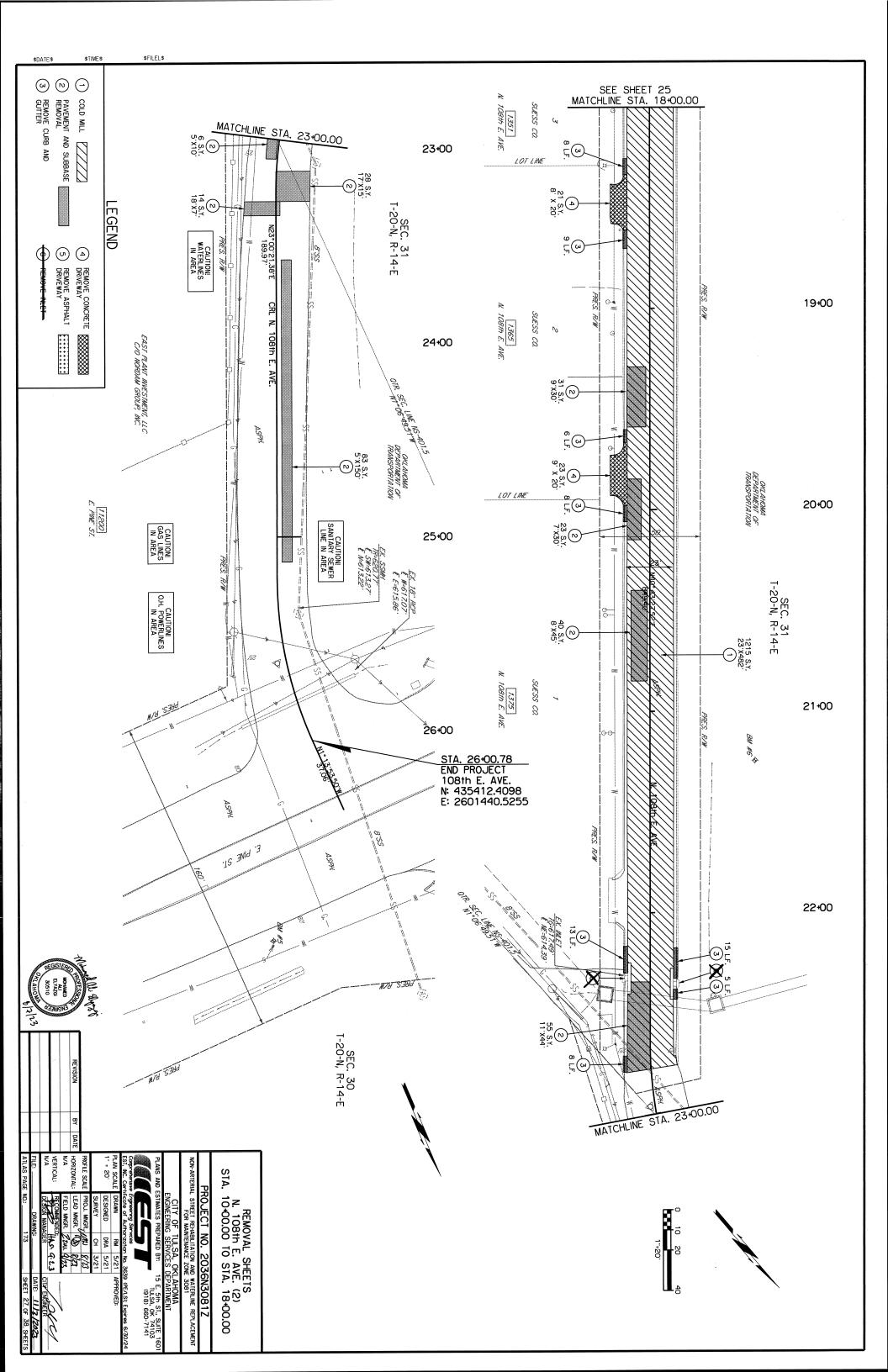


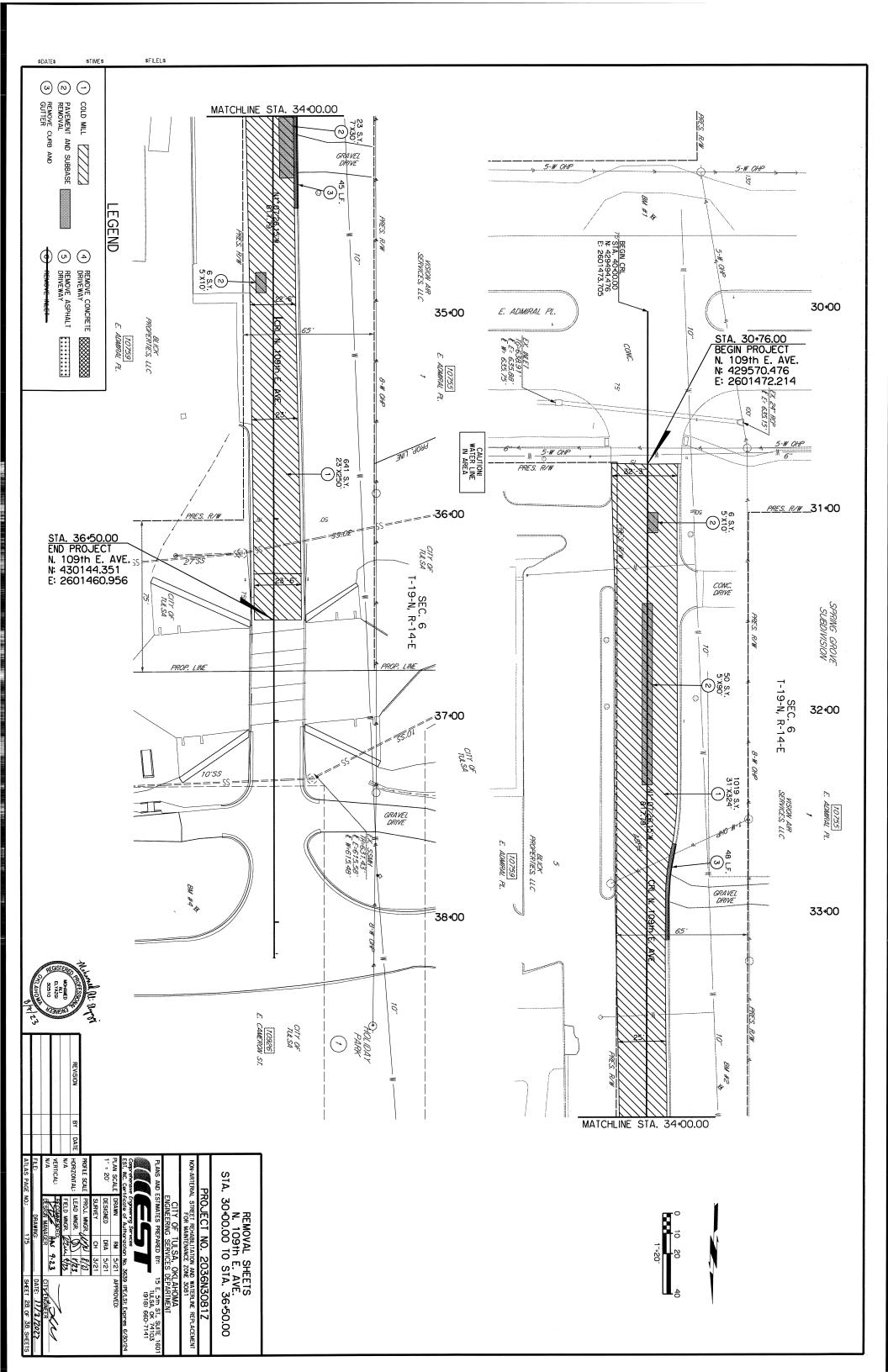


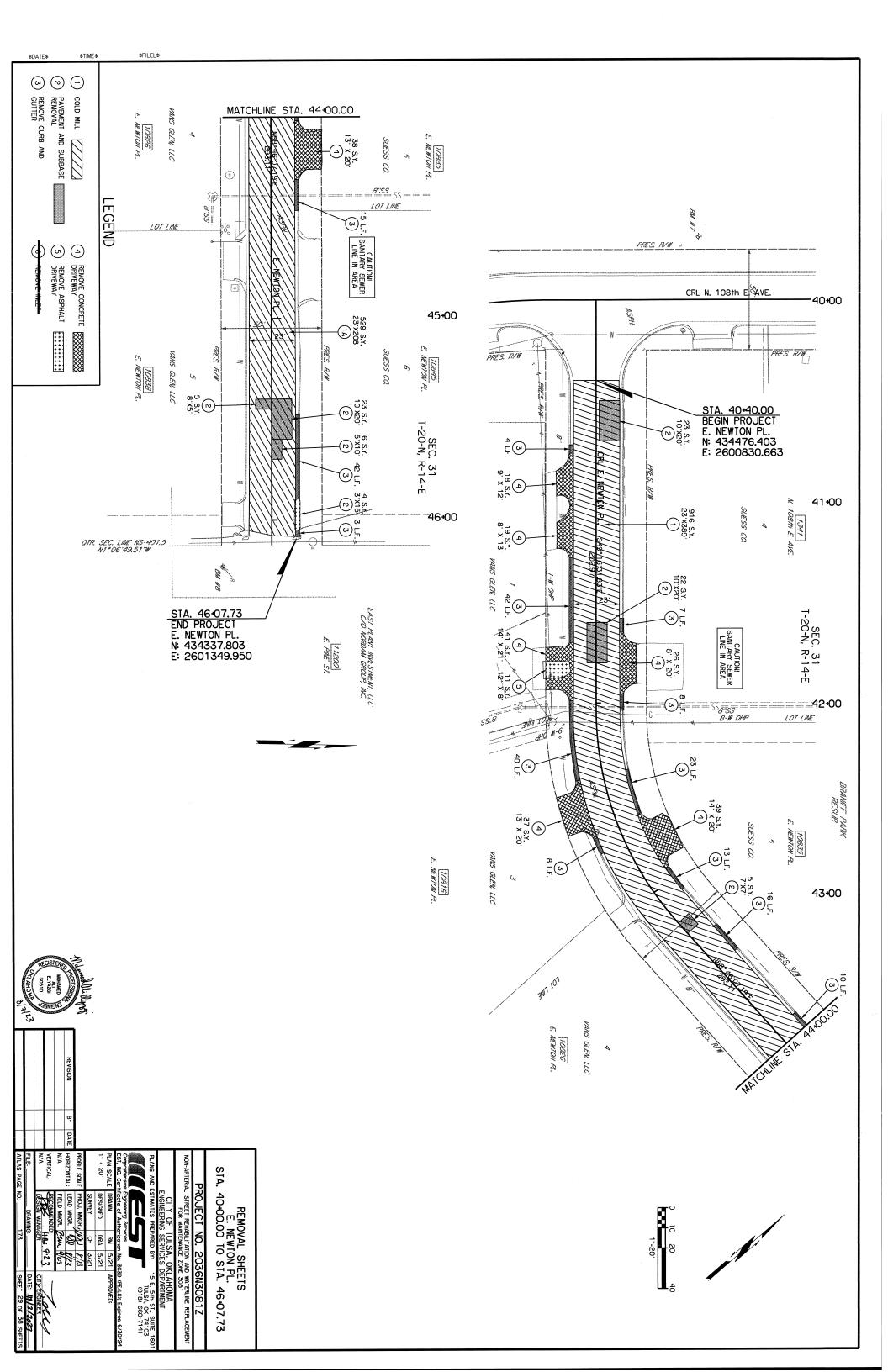


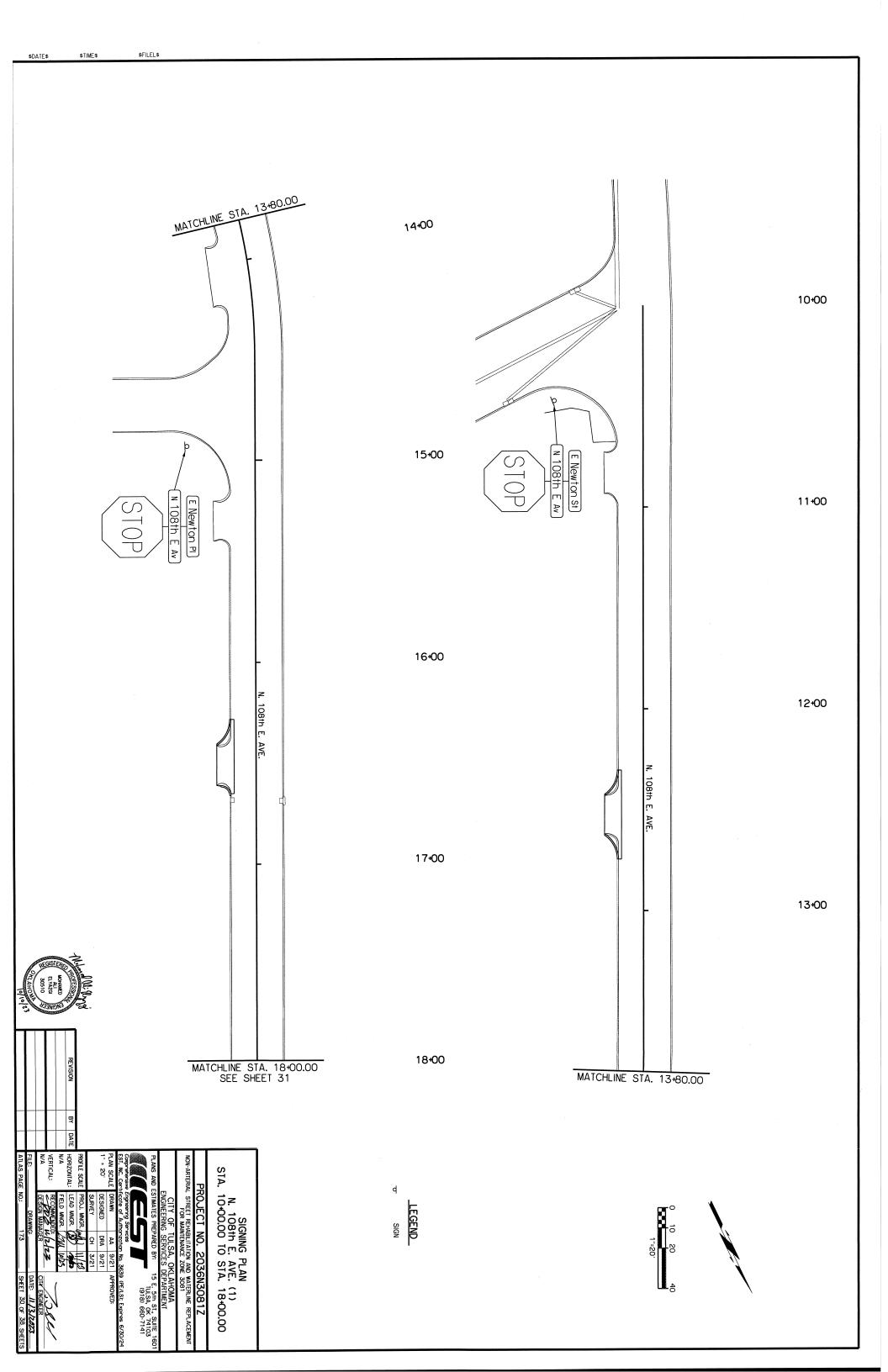


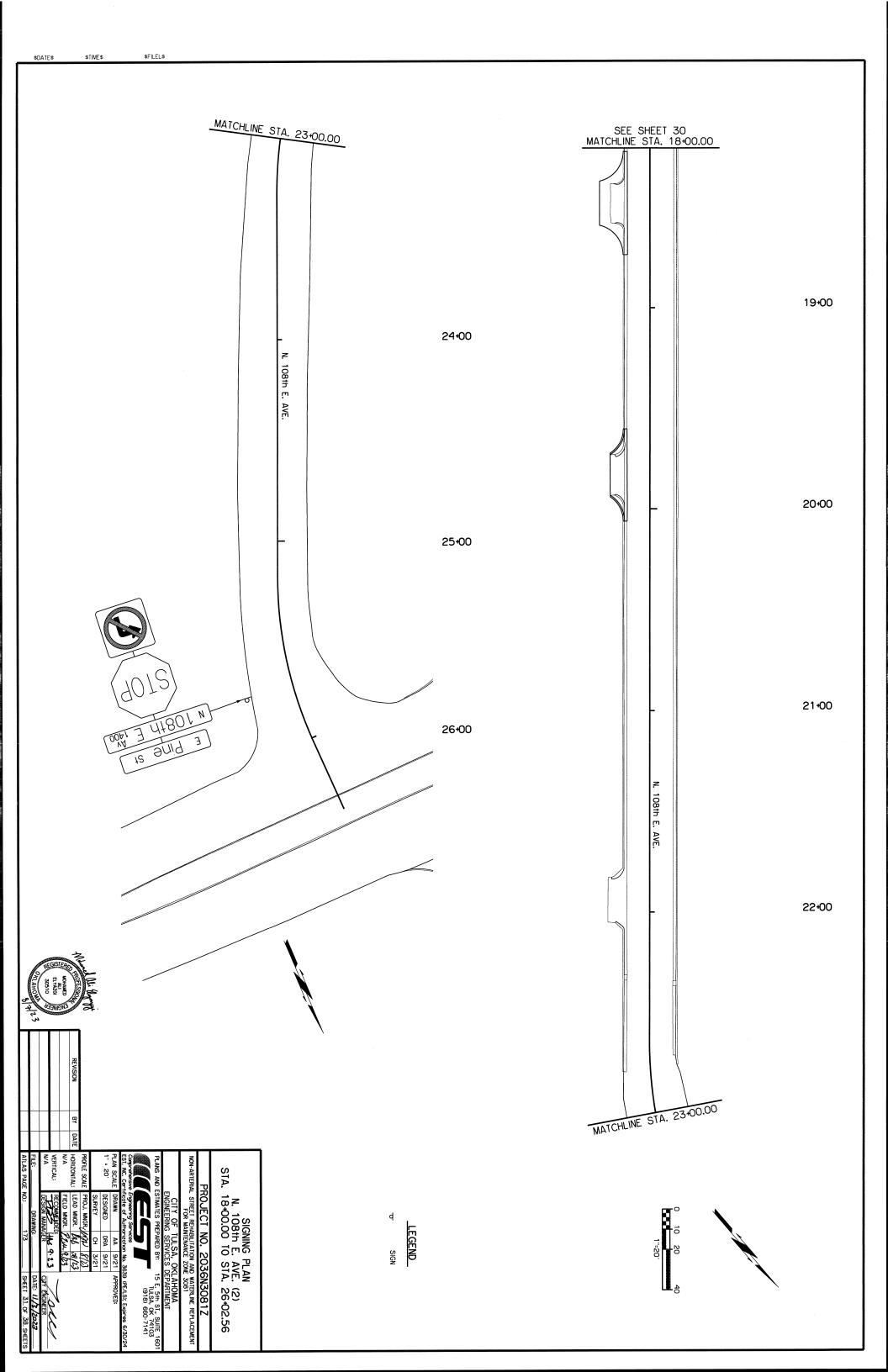


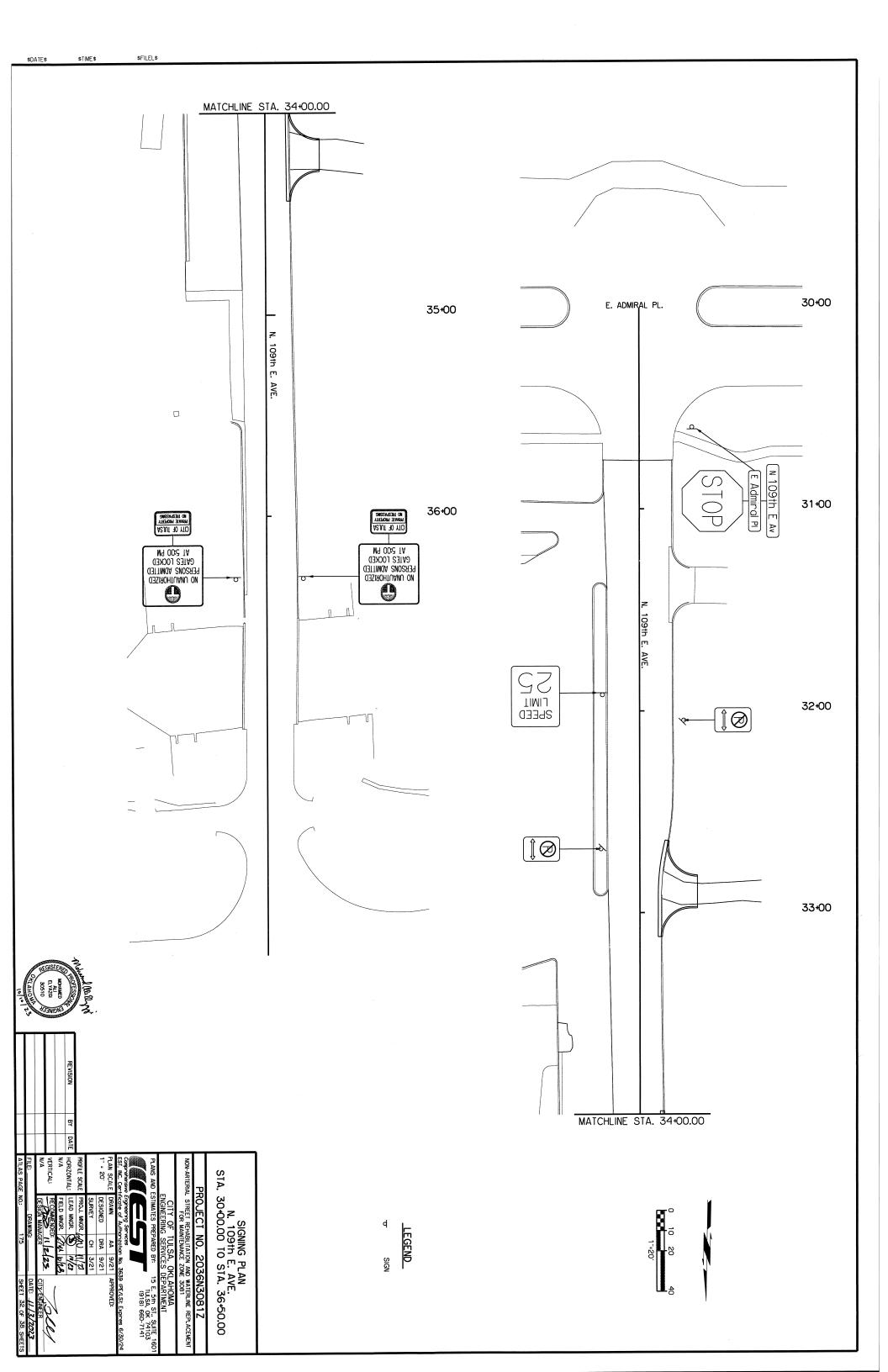


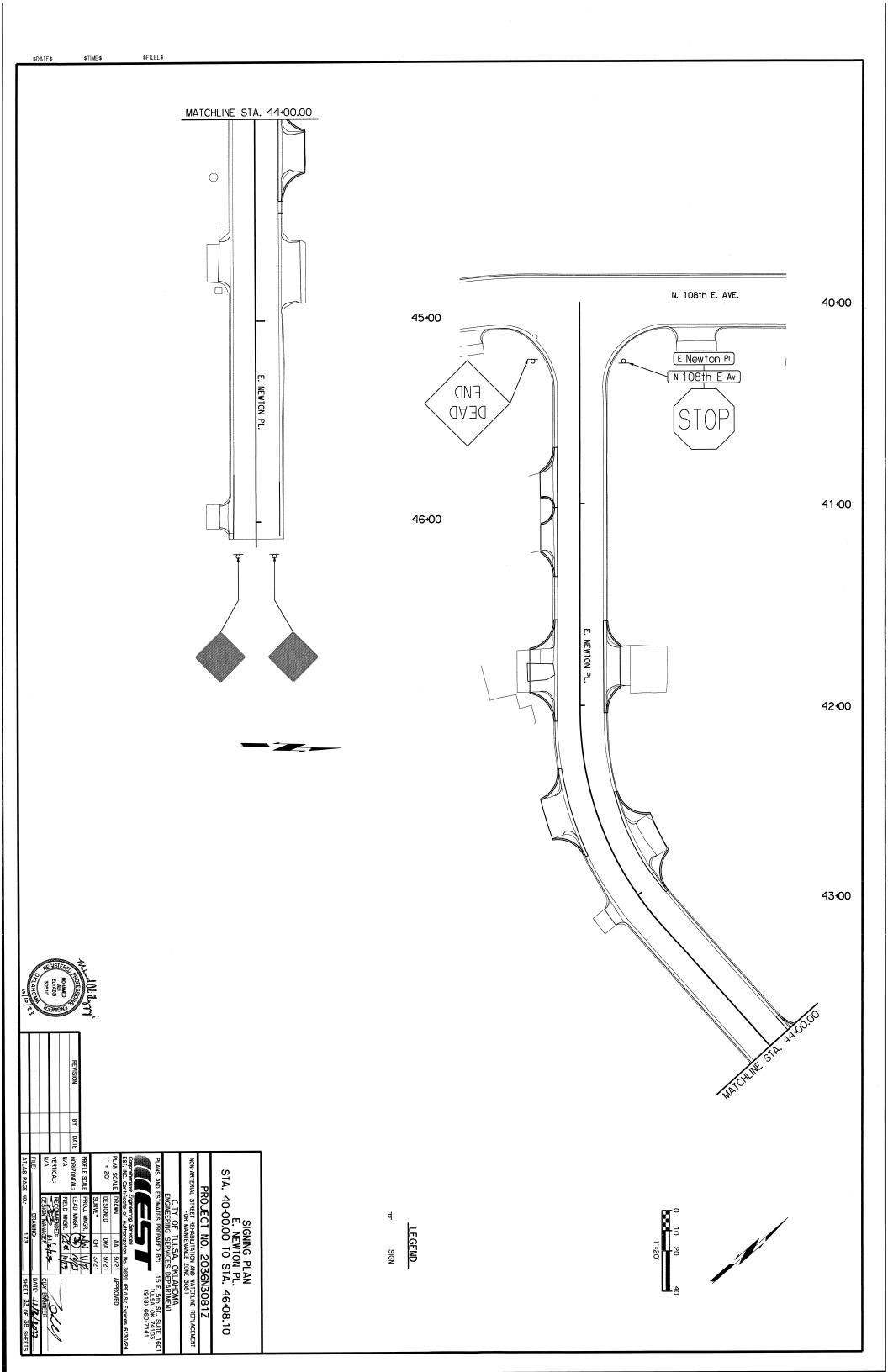






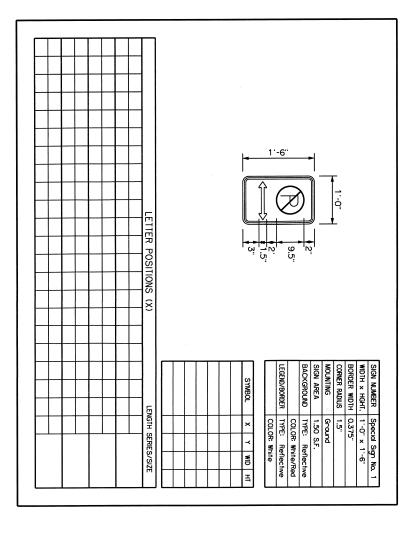








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TRUJECT NO. 2036N3081Z

NON-ARTERIAL STREET REHABLITATION AND WATERLINE REPLACEMENT FOR MANTENANCE ZONE 3081

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15 E. 5th ST., SUITE 1601 TULSA, OK 74103 (918) 660-7141 SPECIAL SIGN DETAILS

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