

SYMBOL LEGEND

SS	EXISTING SANITARY SEWER LINE
RCP	EXISTING STORM DRAIN LINE
FO	EXISTING FIBER OPTIC LINE
T	EXISTING TELEPHONE RISER
OE	EXISTING OVERHEAD ELECTRICAL LINE
PUG	EXISTING UNDERGROUND ELECTRICAL LINE
E	EXISTING ELECTRICAL RISER
G	EXISTING NATURAL GAS LINE
W	EXISTING WATER LINE
ET	EXISTING ELECTRICAL TRANSFORMER
PE	EXISTING PAVEMENT EDGE
CCJ	EXISTING CONCRETE JOINT
PL	EXISTING PROPERTY LINE
RW	EXISTING R/W
EASE	EXISTING EASEMENT
BL	EXISTING BUILDING LINE
F	EXISTING FENCE
S	EXISTING SIGN
WV	EXISTING WATER VALVE
WM	EXISTING WATER METER
FH	EXISTING FIRE HYDRANT
SM	EXISTING SANITARY SEWER MANHOLE
GM	EXISTING STORM MANHOLE
GM	EXISTING GAS METER
HVAC	EXISTING HVAC UNIT
LP	EXISTING LIGHT POLE
PP	EXISTING POWER POLE
GW	EXISTING GUY WIRE
TSPB	EXISTING TRAFFIC SIGNAL PULL BOX
T	EXISTING TREE
MB	EXISTING MAILBOX
CM	EXISTING COMMUNICATION MANHOLE
BH	BORE HOLE
B	BENCHMARK
VCP	VERTICAL CONTROL POINT
PN	PARCEL NUMBER
PC	PROPOSED CONSTRUCTION

SURVEY CONTROL DATA

Horizontal Control:

- (A) The bearings and coordinates used for this survey are based on the Oklahoma State Plane Coordinate System, North Zone - NAD 83 DATUM
(B) Linear Unit is U.S. Survey Foot
(C) Accuracy - 3rd Order or better

Vertical Controls:

- (A) Level Datum is NAVD 1988
(B) Accuracy - 3rd Order or better
(C) Permanent Benchmark: (ADS T218 & 19)

UTILITY COORDINATION

UTILITY	CONTACT	PHONE NO.
CITY OF TULSA	TONY GLYNN	918-596-2238
AT&T	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

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

CONSTRUCTION PLANS
FOR

BRIDGE REHABILITATIONS

BRIDGE #201C LOCATION NO. 72N3990E0550005 NBI NO. 07404

BRIDGE #269 LOCATION NO. 72E0620N4000009 NBI NO. 16463

BRIDGE #286 LOCATION NO. 72E0550N3940005 NBI NO. 19436

BRIDGE #423 LOCATION NO. 72N3972E0680009 NBI NO. 28223

PROJECT NO. 2037B0201C, 2037B0269Z, 2037B0286Z, 2037B0423

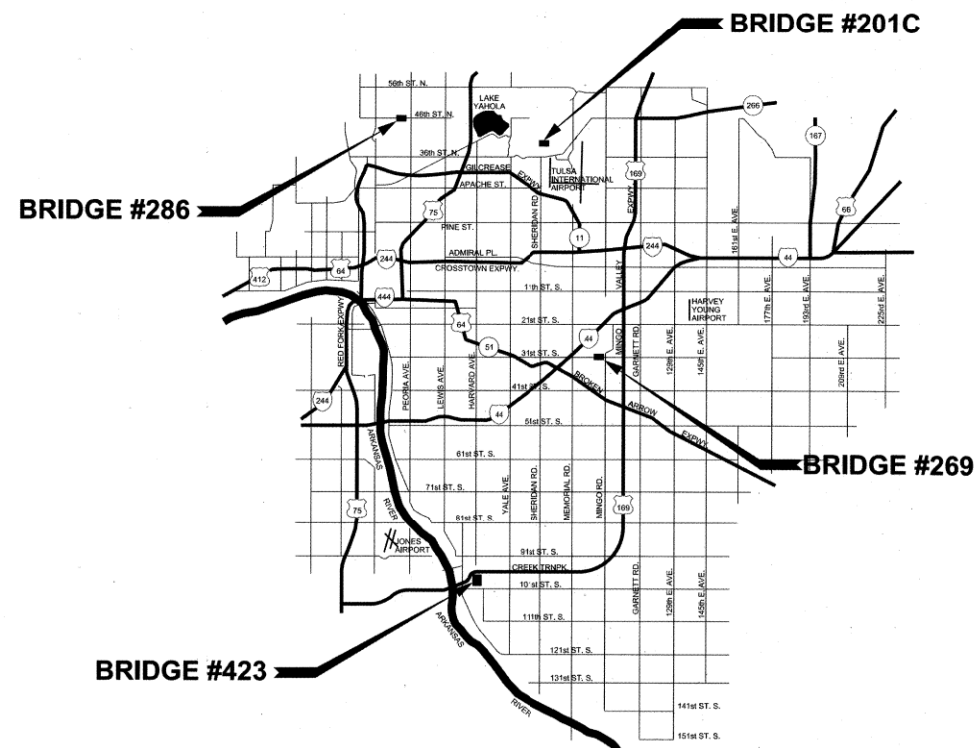
ACCOUNT NO. 2037B0201C.Bridges.BridgMR.4281.42813122-541107

2037B0269Z.Bridges.BridgMR.4281.42813122-541107

2037B0286Z.Bridges.BridgMR.4281.42813122-541107

2037B0423.Bridges.BridgMR.4281.42813122-541107

PUBLIC WORKS DEPARTMENT

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

ADVERTISEMENT DATE:

APPROVED BY:

CITY ENGINEER

DATE: 7/30/2025

PREPARED BY:

BENHAM DESIGN, LLC.
15 West 6th Street, Suite 900
Tulsa, Oklahoma 74119
(918) 492-1600KAREN S. JONES, P.E.
OK P.E. NO. 28517
PROJECT ENGINEER

DATE: 5-16-2025

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 at 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.

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

CERTIFICATE OF AUTHORIZATION NO. 7569 P.E. RENEWAL DATE 6-30-26

SHEET 1 OF 22 SHEETS

BRIDGE REHABILITATIONS
BRIDGE #201C, BRIDGE #269, BRIDGE #286 AND BRIDGE #423
PROJECT NO. 2037B0201C, 2037B0269Z, 2037B0286Z, 2037B0423Benham Design, LLC
15 West 6th Street, Suite 900
Tulsa, Oklahoma 74119
(918) 492-1600
BENHAM
a Haskell Company

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THE FOLLOWING CITY STANDARDS WILL BE REQUIRED

STD. NO.	STANDARD NAME
102	PROJECT SIGN
126	STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE
713	PAVEMENT REMOVAL & REPLACEMENT
714	PAVEMENT CUTS
725	STANDARD PAVEMENT PATCH AND REPAIR
726	ASPHALT PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL AND COLLECTOR STREETS
727	CONCRETE PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL AND COLLECTOR STREETS SHEET 1 OF 2
729	CONCRETE PAVEMENT STANDARD DETAILS FOR ALLEYS, RESIDENTIAL AND COLLECTOR STREETS SHEET 2 OF 2
730	STANDARD ASPHALT PAVEMENT CUT AND REPAIR

THE FOLLOWING ODOT STANDARDS WILL BE REQUIRED

ROADWAY DESIGN

BMPR-0	BEST MANAGEMENT PRACTICE REFERENCE MATRIX
TESCA-0	TYPICAL TEMPORARY EROSION SEDIMENT CONTROL APPLICATIONS
RSF-0	REINFORCED SILT FENCE INSTALLATION AND APPLICATIONS
TSD-0	TEMPORARY SILT DIKE APPLICATIONS
SCE-0	STABILIZED CONSTRUCTION EXIT
SSS-2-1	SOLID SLAB SODDING
ASCD-6-1	ASPHALT SURFACING CONSTRUCTION DETAILS
CSCD-6-2	CONCRETE SURFACING CONSTRUCTION DETAILS
LECS-5-2	JOINTS AND SEALERS - LONGITUDINAL EXPANSION, ISOLATION AND CONTRACTION
LTU-5-1	LOAD TRANSFER UNITS FOR CONCRETE PAVEMENT JOINTS
PCPR-4-2	PORTLAND CEMENT CONCRETE PAVEMENT REPAIR

TRAFFIC CONTROL

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

INDEX OF SHEETS

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8	BRIDGE 201C TRAFFIC CONTROL
9	BRIDGE 269 REHABILITATION PLAN
10	BRIDGE 269 REHABILITATION ELEVATION
11	BRIDGE 269 REHABILITATION ABUTMENTS
12	BRIDGE 269 REHABILITATION MISCELLANEOUS DETAILS
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15	BRIDGE 269 REQUIRED SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL
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5-16-2025

INDEX OF SHEETS

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

 Benham Design, LLC
a Haskell Company

REVISION	BY	DATE	PLAN SCALE	DRAWN	ATB	5/25	APPROVED:
			DESIGNED	KSJ	5/25		
			SURVEY	RDL	5/25		
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL:	FIELD MGR	Paul 6/26		
			1"=10'	LEAD ENGR	6/26		
			VERTICAL:	RECOMMENDED			
			1"=10'	DESIGN MANAGER	has 6.25		
			FILE: 1400361_MZ6035_Br201C_269_286_423_Index Sheet.dgn				
			ATLAS PAGE NO: 131, 132, 286, 352, 431, 1276				



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BRIDGE PAY ITEMS					BRIDGE #201C	BRIDGE #269	BRIDGE #286	BRIDGE #423	TOTAL
ITEM	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
26	201(B)	SELECTIVE CLEARING	(117,118)	LSUM				1	1
27	414(F)	PARTIAL DEPTH P.C.C. PATCH (PLACEMENT)	(102,108,112,116)	SY		27			27
28	506(A)	STRUCTURAL STEEL		LB		642			642
29	509(A)	CLASS AA CONCRETE	(101)	CY		14			14
30	509(B)	CLASS A CONCRETE	(101)	CY				127	127
31	511(A)	REINFORCING STEEL		LB				16,060	16,060
32	511(B)	EPOXY COATED REINFORCING STEEL		LB		1510			1,510
33	512	CLEANING BRIDGE SURFACES		SY		26			26
34	512(B)	PAINTING EXISTING STRUCTURES		LSUM	1	1			2
35	512(A)	COLLECTION AND HANDLING OF WASTE		SF	600	6662			7,262
36	513(B)	CLASS B BRIDGE DECK REPAIR		SY		25			25
37	513(C)	CLASS C BRIDGE DECK REPAIR		SY		11			11
38	515(A)	WATER REPELLANT (VISUALLY INSPECTED)	(307)	SY		141			141
39	517	ELASTOMERIC COATING	(308)	SF		392			392
40	518(C)	RAPID CURE JOINT SEALANT		LF		44			44
41	518(D)	ELASTOMERIC MORTAR	(302,303)	CF	12	5			16
42	520(A)	PREPARATION OF CRACKS, ABOVE WATER	(304,305)	LF		177	85		262
43	520(C)	EPOXY RESIN, ABOVE WATER	(304)	GAL		0.22	0.14		1
44	523(C)	DECK AREA SEALED (FLOODCOATS)		SY		499			499
45	535	CORROSION INHIBITOR (SURFACE APPLIED)		SY		78			78
46	540	(PL) REPAIR BRIDGE ITEMS	(301,306)	EA	2	16			18
47	601(A)	TYPE I PLAIN RIPRAP		TON		55		175	230
48	601(C)	TYPE I-A FILTER BLANKET		TON		13		42	55
49	619(A)	REMOVAL OF STRUCTURES & OBSTRUCTIONS	(103,104,105,106,107)	LSUM	1	1	1	1	4
50	619(B)	REMOVAL OF BRIDGE ITEMS	(309)	EA				1	1
51	623(G)	GUARDRAIL END TREATMENT (GET)		EA		2			2
52	625(B)	REMOVE AND RECONSTRUCT FENCE	(115)	LF			290	110	400

CONSTRUCTION PAY ITEMS					
ITEM	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY
1	220	SWPPP DOCUMENTATION AND MANAGEMENT	(119,120,121,122,123,124)	LSUM	1
2	625(B)	REMOVE AND RECONSTRUCT FENCE	0	LF	125
3	641	MOBILIZATION	(109,113,114)	EA	1
4	642(B)	CONSTRUCTION STAKING LEVEL II	(110,111)	EA	1
5	805(A)	REMOVAL OF TRAFFIC ITEMS	(T-1)	EA	25
6	855(A)	TRAFFIC STRIPE (PLASTIC) (4" WIDE)	(T-3)	LF	640
7	880(A)	ARROW DISPLAY (TYPE A)	(T-4)(201)	SD	240
8	880(B)	CONSTRUCTION SIGNS 0.00 TO 6.25 SF	(T-2, 4, 5) (201, 202)	SD	1,800
9	880(B)	CONSTRUCTION SIGNS 6.26 TO 15.99 SF	(T-2, 4, 5) (201, 202)	SD	1,800
10	880(C)	BARRICADES (TYPE III)	(T-2, 4, 5) (201)	SD	720
11	880(E)	WARNING LIGHTS (TYPE A)	(T-4, 5) (201)	SD	1,440
12	880(E)	WARNING LIGHTS (TYPE C)	(T-4, 5) (201)	SD	3,600
13	880(F)	DRUMS	(T-2, 4, 5) (201)	SD	7,200
14	880(I)	FLAGGER	(T-6)	SD	50
15	COT 202	QUICK SET FLOWABLE FILL	(108,112)	CY	50
16	COT 327	SAFETY FENCE	(203)	LF	500
17	COT 334	CONSTRUCTION AS-BUILT		LSUM	1
18	COT 335	CONTRACTOR'S QUALITY CONTROL		LSUM	1
19	COT 608	GROUND SIGN	(125)	SF	56
20	COT 608	1-3/4" SIGN POST	(125)	LF	80
21	COT 608	2" SIGN POST	(125)	LF	24
22	SPECIAL	TEMPORARY FENCE	(126, 127)	LF	125
23	SPECIAL	OWNER'S ALLOWANCE		EA	15,000
24	SPECIAL	URBAN RIGHT OF WAY RESTORATION		EA	1
25	SPECIAL	SPECIAL SIGNAGE FOR LOCAL BUSINESS ACCESS (BAS-1)	(T-4) (204)	SD	2,640

ITEMS LISTED OR SHOWN IN 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.



5-16-2025

PAY ITEMS AND NOTES (1)

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT



REVISION	BY	DATE	PLAN SCALE	DRAWN	ATB	5/25	APPROVED:
			DESIGNED	KSJ	5/25		
			SURVEY	RDL	5/25		
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL: 1"=100'	FIELD MGR	6/15		
			VERTICAL: 1"=10'	LEAD ENGR	6/15		
				RECOMMENDED			
				DESIGN MANAGER	6-25		
			FILE: 1400361_MZ6035_Br201C_269_286_423_Pay Items.dgn				
			ATLAS PAGE NO.: 131, 132, 286, 352, 431, 1276				



CITY ENGINEER

DATE: MAY 2025

SHEET 3 OF 22 SHEETS

ROADWAY PAY ITEM NOTES (11/1/2024)

- 101 THE USE OF FLY-ASH IN CONCRETE IS PROHIBITED.
- 102 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
- DONES 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
- 103 WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.
- 104 ALL SAW CUTTING AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE ADJUSTED, REMOVED, REPAIRED, OR REPLACED.
- 105 PAY ITEM INCLUDES REMOVAL OF ALL STRUCTURES AND OBSTRUCTIONS WITHIN PROJECT LIMITS NOT SPECIFIED BY OTHER ITEMS OF WORK.
- 106 INCLUDES SAWING NOT INCLUDED IN OTHER ITEMS OF WORK.
- 107 ITEMS TO BE REMOVED MAY OR MAY NOT BE PRESENT IN ANY SPECIFIED CONDITION.
- 108 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.
- 109 MAXIMUM OVERALL DOLLAR AMOUNT AND SCHEDULE OF PAYMENTS SHALL BE IN ACCORDANCE SECTION 641 OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CURRENT EDITION.
- 110 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.
- 111 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.
- 112 THERE IS AN ESTIMATED 10 CY OF CLASS A CONCRETE FOR THE PAY ITEM PER SY OF PARTIAL DEPTH P.C.C. PATCH (PLACEMENT).
- 113 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STAGING AREA.
- 114 SHALL INCLUDE ALL LABOR, EQUIPMENT, AND ASSOCIATED COSTS TO COMPLETE THE REQUIRED BID ITEM TO THE FULL EXTENT REQUIRED TO COMPLETE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
- 115 FENCE SHALL MATCH EXISTING IN KIND.
- 116 FULL PANEL REPLACEMENT SHALL HAVE DOWEL JOINTED TRANSVERSE JOINTS PER ODOT STD NO. LTU-5-1. ALL COSTS FOR DOWELED JOINTS IN FULL DEPTH PATCHING SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NO ADDITIONAL PAYMENT SHALL BE MADE.
- 117 ALL COSTS FOR REMOVING TREES, SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPARATE PAY ITEM ARE INCLUDED IN THE PRICE BID.
- 118 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.
- 119 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.

ROADWAY PAY ITEM NOTES (11/1/2024) CONT'D.

- 120 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.
- 121 PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION.
- 122 INCLUDES 15 TYPE 1-B FILTERS.
- 123 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.
- 124 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.
- 125 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.
- 126 THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY RIGHT-OF-WAY FENCE AS REQUIRED.
- THE TEMPORARY FENCE SHALL BE SUFFICIENT TO CONTAIN ALL CHILDREN, ANIMALS, ETC. IN THE MANNER AS THE EXISTING FENCE. WHEN THE PORTION OF THE PROJECT THAT REQUIRED THIS TEMPORARY FENCE IS COMPLETED, THE TEMPORARY FENCE SHALL BE REMOVED AT NO ADDITIONAL COST.
- THE TEMPORARY FENCE SHALL BE CHAIN LINK FENCE, 6 FEET HIGH, CLASS A.
- 127 INCLUDES 2% FOR GROUND MEASUREMENT.

BRIDGE PAY ITEM NOTES (11/1/2024)

- 301 PAY ITEM FOR REPLACEMENT OF MISSING EAST ABUTMENT STONE AT BRIDGE 201C.
ONE ADDITIONAL STONE INCLUDED IN QUANTITIES TO BE USED AT THE DISCRETION OF THE
ENGINEER.
- 302 PAY ITEM FOR GROUTING OF REPLACEMENT STONE AT ABUTMENT AT BRIDGE 201C.
ADDITIONAL LOCATIONS OF EXISTING GROUT REPAIR TO BE USED AT THE DISCRETION OF THE
ENGINEER.
- 303 PRICE BID PER CUBIC FOOT TO INCLUDE PREPARATION FOR GROUT REPAIR AT BRIDGE 201C
AND ALL COSTS, INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY
TO COMPLETE THE WORK.
- 304 ALL COST INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO
COMPLETE THE WORK DESCRIBED IN THE BRIDGE GENERAL CONSTRUCTION NOTES SHALL BE
INCLUDED IN THE PRICE BID PER LINEAR FOOT OF "PREPARATION OF CRACKS, ABOVE WATER"
AND THE PRICE BID PER GALLON OF "EPOXY RESIN, ABOVE WATER".
- 305 AN ADDITIONAL 25 LF OF "PREPARATION OF CRACKS, ABOVE WATER" FOR BOTH BRIDGES #269
AND #286 HAS BEEN INCLUDED IN THE QUANTITIES, TO BE USED AT THE DISCRETION OF THE
ENGINEER.
- 306 PAY ITEM FOR TRIMMING STEEL BEAM ENDS AT BRIDGE 269.
- 307 INCLUDES 62.7 SY FOR ABUTMENTS AND 77.7 SY FOR PIER CAP.
- 308 INCLUDES 176.3 SF FOR ABUTMENTS AND 215.0 SF FOR PIER CAP.
- 309 PAY ITEM FOR REMOVAL OF GROUTED RIPRAP AT WEST END OF BRIDGE CULVERT
AT BRIDGE 423.

TRAFFIC PAY ITEM NOTES (11/14/2018)

- T-1 ALL CONTRACTOR MATERIALS SHALL BE HANDLED PER DOT SPECIFICATION 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 AND 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 KIND 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 AND SPECIFICATIONS.
- 201 120 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY AND FLAG DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY AND FLAG DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT DOT STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY AND FLAG DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- 202 QUANTITIES SHOWN FOR CONSTRUCTION SIGNING HAVE BEEN INCREASED TO ALLOW FOR TRAFFIC CONTROL ON CROSS STREETS NOT SHOWN ON THE PLANS.
- 203 CONTRACTOR SHALL INSTALL AND MAINTAIN SAFETY FENCE ALONG THE EDGE OF OPEN CUTS WITHIN THE CONSTRUCTION ZONE. SAFETY FENCE SHALL BE AN OPEN MESH TYPE, HIGH-DENSITY PLASTIC MATERIAL, 48-INCHES IN HEIGHT, AND COLORED INTERNATIONAL SAFETY ORANGE. FENCE SHALL BE SUPPORTED BY FENCE POSTS SPACED AT NO MORE THAN 10 FEET. PAYMENT FOR SAFETY FENCE SHALL BE AT THE UNIT PRICE BID PER LINEAR FOOT BASED ON THE TOTAL FOOTAGE USED FOR THE DURATION OF THE PROJECT. NO ADDITIONAL PAYMENT WILL BE MADE FOR MOVING THE FENCE AS THE JOB SITE CHANGES.
- 204 CONTRACTOR SHALL INSTALL AND MAINTAIN INFORMATION SIGNS TO ADVISE THE PUBLIC THAT BUSINESSES ARE OPEN AND WHERE ACCESS POINTS TO THE BUSINESSES ARE LOCATED.



5-16-2025


PAY ITEMS AND NOTES (2)

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT



enham Design, LLC

REVISION	BY	DATE	PLAN SCALE	DRAWN	ATB	5/25	APPROVED:
			1"= N/A	DESIGNED	K.S.J	5/25	
				SURVEY	RDL	5/25	
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL:	FIELD MGR	<i>John</i>	<i>6/15</i>	
			1"= N/A	LEAD ENGR	<i>6/25</i>		
			VERTICAL:	RECOMMENDED			 CITY ENGINEER
			1"= N/A	DESIGN MANAGER	<i>HKS</i>	<i>6-25</i>	
			FILE: 1400361_M205035_B201C_269_286_423_Pay Item Notes.dwg ATLAS PAGE NO.: 131, 132, 286, 352, 431, 1276				DATE: MAY 2025 SHEET 4 OF 22 SHEETS

P:\140_Oct\1400361_COT M26035 Bridge Rehab\2\Design\Working\STRC\Microstation\Sheets\1400361_M26035_Br201C_269_286_423_Gen Notes 01.dgn 5/16/2025 8:44:03 AM

GENERAL CONSTRUCTION NOTES - CITY OF TULSA (11/12/2016)

- 1
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS ADOPTED BY CITY OF TULSA AND THE CURRENT CITY OF TULSA ENGINEERING SERVICES DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.
- 2
- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH, AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
- 3
- PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.
- 4
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- 5
- THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK, TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS:
SEE TITLE SHEET FOR CONTACT INFORMATION.
- 6
- THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
- 8
- THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
- 9
- THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
- 10
- CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
- 11
- THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.
- 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 MATERIAL REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
- 14
- LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
- 15
- ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
- 16
- ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
- 17
- ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.
- 18
- ALL TREES, BRUSH AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK. TREES OUTSIDE THE FILL SLOPES AND THE TOP OF CUT SLOPES SHALL NOT BE DISTURBED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.
- 19
- WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE OR LOCAL LAW OR REGULATION.

GENERAL CONSTRUCTION NOTES - BENHAM

ALL WORK AND/OR MATERIALS NOT CLASSIFIED AS A "CONTRACT PAY ITEM" SHALL BE CONSIDERED INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.

WHERE IT IS NECESSARY TO CROSS CURBING, PROTECTION AGAINST DAMAGE SHALL BE PROVIDED BY THE CONTRACTOR AND ANY DAMAGE TO THE ROADWAY PAVEMENT, CURBS, OR DRIVEWAYS CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

BLASTING SHALL NOT BE ALLOWED.

CONTRACTOR SHALL TAKE PRECAUTION NOT TO DAMAGE EXISTING INLETS THAT ARE WITHIN THE PROJECT LIMITS THAT ARE NOT SHOWN AS PART OF THE CONSTRUCTION IN THIS PROJECT. ALL DAMAGE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.

PROJECT SIGNS SHALL BE PROVIDED AT ENTRANCES TO THE PROJECT AREA. THE PROJECT SIGNS SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.


CONTRACTOR SHALL DOCUMENT PRE-CONSTRUCTION SITE CONDITIONS BY MEANS OF PHOTOGRAPHS AND VIDEO TAPE WITH CITY REPRESENTATIVE BEFORE THE START OF CONSTRUCTION. COST SHALL BE CONSIDERED AS INCIDENTAL AND NO SEPARATE PAYMENT SHALL BE MADE.

THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

- 1) ANY PERMITS OR LICENSES REQUIRED FOR CONSTRUCTION WITH THE EXCEPTION OF THE WATERSHED DEVELOPMENT PERMIT, WHICH SHALL BE OBTAINED BY THE CITY.
- 2) PROPER NOTIFICATION OF ALL NECESSARY AGENCIES PRIOR TO CONSTRUCTION AND FOR REQUIRED INSPECTIONS.
- 3) DETERMINING THE EXACT LOCATION OF ANY UTILITIES. EXISTING UTILITIES TO REMAIN IN SERVICE AT ALL TIMES. SERVICE DISRUPTION TO BE AT CONTRACTOR'S RISK AND EXPENSE.

CONTRACTOR SHALL BRACE UTILITY POLES AND/OR LINES AS NECESSARY.

Karen Swater Jones
5-16-2025

GENERAL CONSTRUCTION NOTES (1)			
BRIDGE REHABILITATION PROJECT NO. 2037B0201C, 2037B0269Z, 2037B02867, 2037B0423			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
		Benham Design, LLC	
REVISION	BY	DATE	APPROVED:
PLAN SCALE	DRAWN	ATB	5/25
	DESIGNED	KSJ	5/25
	SURVEY	RDL	5/25
PROFILE SCALE	PROJECT MGR		
HORIZONTAL:	FIELD MGR	<i>Jim</i>	6/25
1"=10'	LEAD ENGR	<i>JD</i>	6/25
VERTICAL:	RECOMMENDED		
1"=10'	DESIGN MANAGER	<i>HAS</i>	6-25
FILE: 1400361_M26035_Br201C_269_286_423_Gen Notes 01.dgn			CITY ENGINEER
ATLAS PAGE NO: 131, 132, 286, 352, 431, 1276			DATE: MAY 2025
			SHEET 5 OF 22 SHEETS



GENERAL CONSTRUCTION NOTES - BRIDGE:

SPECIFICATIONS:

COMPLY WITH THE REQUIREMENTS OF THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS ADOPTED BY CITY OF TULSA, EXCEPT AS MODIFIED BY THE PLANS AND CITY OF TULSA STANDARDS.

MATERIALS:

CLASS AA CONCRETE
CLASS A CONCRETE
REINFORCING STEEL (GRADE 60)
EPOXY COATED REINFORCING STEEL
STRUCTURAL STEEL M270 (GRADE 50W)

f_c = 4,000 PSI
f_c = 3,000 PSI
F_y = 60,000 PSI
F_y = 60,000 PSI
F_y = 50,000 PSI

ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE

DESCRIPTION OF WORK:

PROJECT INVOLVES REHABILITATION OF FOUR BRIDGES WITH VARYING LEVELS OF REPAIR.

BRIDGE #201C:
CLEAN AND PAINT STEEL BEAMS AND DIAPHRAGMS. LEAD PAINT LIKELY PRESENT. ADD MISSING STONE UNDER SOUTHEAST BEAM AND GROUT. REPAIR EXISTING ABUTMENT STONEWORK WITH GROUT. ONE-LANE TRAFFIC SHALL REMAIN OPEN DURING CONSTRUCTION.

BRIDGE #269:
CLEAN AND PAINT STEEL BEAMS AND DIAPHRAGMS. TRIM BEAM ENDS AT PIER LEAD PAINT LIKELY PRESENT. PERFORM CLASS B AND C DECK REPAIR AND P.C.C. PATCHING (ON APPROACH SLAB AND ROADWAY BEYOND LIMITS OF THE BRIDGE). REPLACE ELASTOMERIC EXPANSION JOINT. CLASS AA REPAIR AT PIER CAP. SUBSTRUCTURE CRACK REPAIR. RIPRAP PLACEMENT. GUARDRAIL END TREATMENT REPLACEMENTS. FLOODCOAT DECK. ONE LANE OF TRAFFIC IN EACH DIRECTION ON THE BRIDGE AND ROADWAY SHALL REMAIN OPEN DURING CONSTRUCTION.

BRIDGE #286:
SUBSTRUCTURE CRACK REPAIR. ONE LANE OF TRAFFIC ON THE BRIDGE AND ROADWAY SHALL REMAIN OPEN DURING CONSTRUCTION.

BRIDGE #423:
REMOVE AND REPLACE DOWNSTREAM BRIDGE CULVERT APRON, CLEAR CHANNEL AND BRIDGE CULVERT CELLS OF DEBRIS. RIPRAP PLACEMENT. ONE LANE OF TRAFFIC ON THE BRIDGE AND ROADWAY SHALL REMAIN OPEN DURING CONSTRUCTION.

VERIFICATION OF EXISTING CONDITIONS:

ALL DIMENSIONS OF THE EXISTING BRIDGE COMPONENTS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS NECESSARY TO CONNECT THE NEW MATERIAL AND SHALL BE SOLELY THE RESPONSIBLE FOR THE ACCURACY THEREOF.

BIDDERS SHALL FULLY INFORM THEMSELVES OF THE NATURE OF THE WORK AND CONDITIONS UNDER WHICH IT WILL BE PERFORMED. THE CONTRACTOR SHALL ADOPT METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING BRIDGE STRUCTURES OR ROADWAY. DAMAGE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

ORIGINAL AND REHABILITATION CONSTRUCTION PLANS FOR THE EXISTING BRIDGE STRUCTURES, IF AVAILABLE, MAY BE OBTAINED FROM THE CITY OF TULSA.

REMOVAL OF BRIDGE ITEMS:

THE REMOVAL AND DISPOSAL OF EXISTING MATERIALS, (CONCRETE, REINFORCING STEEL, STRUCTURAL STEEL, RIPRAP, ETC.) FROM DECK AND SIDEWALK REMOVAL, WINGWALL AND BACKWALL REPAIR, APPROACH SLAB REPAIR, AND ANY OTHER ITEMS NECESSARY TO COMPLETE THE WORK SHOWN IN THE PLANS SHALL BE IN ACCORDANCE WITH SUBSECTION 619.04(B)2 OF THE ODOT 2019 STANDARD SPECIFICATIONS AND BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL NOT ALLOW CONSTRUCTION DEBRIS TO FALL INTO WATER BELOW, FOR BRIDGES #201C, #269, AND #286.

REPAIR BRIDGE ITEMS (BRIDGE #201C):

AT THE EAST STONE ABUTMENT OF BRIDGE #201C, A STRUCTURAL STONE IS MISSING BELOW THE SOUTHERN-MOST BEAM AT THE BEARING. CONTRACTOR SHALL CLEAN SURFACE AT MISSING STONE AND REPLACE WITH SIZE LARGE ENOUGH TO PROVIDE BEARING RESISTANCE, BUT NOT DISTURB OR WARP THE EXISTING STEEL BEAM. CONTRACTOR SHALL SELECT STONE OF SIMILAR HARDNESS, COLOR, AND CONSISTENCY OF THE EXISTING STONE ABUTMENTS. CONTRACTOR SHALL SECURE THE STONE IN PLACE WITH BRICK MORTAR.

ALL COSTS INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER EACH OF "(PL)REPAIR BRIDGE ITEMS".

ELASTOMERIC MORTAR (BRIDGE #201C):

PAY ITEM FOR USE AT BRIDGE #201C FOR THE PURPOSE OF SECURING ABUTMENT STONE WITH MORTAR. ADDITIONAL MORTAR REPAIRS OF EACH ABUTMENT MAY BE REQUIRED AND DETERMINED BY THE ENGINEER.

ALL COSTS INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS SHALL BE INCLUDED IN THE PRICE BID PER CUBIC FOOT OF "ELASTOMERIC MORTAR".

EPOXY INJECTION (BRIDGES #269 & #284):

THE EXISTING PIER CAPS AND ABUTMENTS HAVE APPROXIMATELY 262 LINEAR FEET OF CRACKS THAT SHALL BE CLEANED AND INJECTED WITH EPOXY. THE ACTUAL LOCATION AND EXTENT OF THE CRACKS TO BE SEALED SHALL BE AS SHOWN IN THE PLANS AND AS DETERMINED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 520 OF THE ODOT 2019 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

ALL COST INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF "PREPARATION OF CRACKS, ABOVE WATER" AND THE PRICE BID PER GALLON OF "EPOXY RESIN, ABOVE WATER".

CLASS B BRIDGE DECK REPAIR (BRIDGE #269):

CLASS B BRIDGE DECK REPAIR CONSISTS OF PARTIAL DEPTH DECK REPAIR TO BELOW THE TOP LAYER OF REINFORCING STEEL.

REMOVE AND REPAIR PORTIONS OF THE UNSOUND BRIDGE DECK IN ACCORDANCE WITH SECTION 513.04D(2) OF THE 2019 ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE REMOVAL OF LOOSE AND UNSOUND CONCRETE SHALL BE DONE IN ACCORDANCE WITH SECTION 513.03 OF THE 2019 ODOT STANDARD SPECIFICATIONS.

ANY DAMAGE DONE TO THE EXISTING REINFORCING STEEL DURING THE REMOVAL PROCESS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. ANY DETERIORATED REINFORCING STEEL WITH A SECTION LOSS GREATER THAN 50%, AS DETERMINED BY THE ENGINEER, SHALL BE REPORTED TO THE CITY PROJECT MANAGER FOR REMEDIAL ACTION. PRIOR TO CONCRETE PLACEMENT, BLAST CLEAN THE CONCRETE SURFACE AND REINFORCING STEEL FREE OF DEBRIS AND CORROSION.

THE LOCATION AND ACTUAL EXTENT OF THE REPAIRS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. PAYMENT SHALL BE MADE FOR THE ACTUAL REPAIRS MADE. NO PAYMENT SHALL BE MADE FOR WORK NOT PERFORMED. THE EXTENTS OF CLASS B BRIDGE DECK REPAIR SHALL BE MEASURED AND APPROVED BY THE ENGINEER PRIOR TO PLACING THE FLOODCOAT.

ALL COSTS INCLUDING REINFORCING STEEL, SAWING, REMOVALS, LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE AND AS SHOWN IN THE PLANS AND IN ACCORDANCE WITH SECTION 513.06 SHALL BE INCLUDED IN THE PRICE BID PER SQUARE YARD OF "CLASS B BRIDGE DECK REPAIR".

CLASS C BRIDGE DECK REPAIR (BRIDGE #269):

THERE IS APPROXIMATELY 3 CUBIC YARDS OF CLASS AA CONCRETE AND 350 POUNDS OF REINFORCING REQUIRED FOR THE CLASS "C" BRIDGE DECK REPAIR OF THE BRIDGE DECKS. REMOVE AND REPAIR PORTIONS OF BRIDGE DECK AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH SECTION 513.04D(3) OF THE 2019 ODOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE REPAIR LOCATIONS ARE LOCATED ONE FOOT ON EITHER SIDE OF THE EXISTING EXPANSION JOINT. REMOVE EXISTING EXPANSION JOINT AND REPLACE WITH EXPANSION JOINT AS SHOWN IN PLANS. THE EXISTING LONGITUDINAL REINFORCING STEEL SHALL BE CLEANED, STRAIGHTENED, AND LEFT IN PLACE IN ACCORDANCE WITH SECTION 513.04(D)3 OF THE ODOT 2019 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. PAYMENT SHALL BE MADE FOR THE ACTUAL REPAIRS MADE. NO PAYMENT SHALL BE MADE FOR WORK NOT PERFORMED.

ANY DAMAGE DONE TO THE EXISTING REINFORCING STEEL DURING THE REMOVAL PROCESS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. ANY DETERIORATED REINFORCING STEEL WITH A SECTION LOSS GREATER THAN 50%, AS DETERMINED BY THE ENGINEER, SHALL BE REPORTED TO THE CITY PROJECT MANAGER FOR REMEDIAL ACTION. PRIOR TO CONCRETE PLACEMENT, BLAST CLEAN THE CONCRETE SURFACE AND REINFORCING STEEL FREE OF DEBRIS AND CORROSION.

ALL COSTS OF THE REPAIR INCLUDING REINFORCING STEEL, SAWING, REMOVALS, LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN IN THE PLANS AND IN ACCORDANCE WITH SECTION 513.06 SHALL BE INCLUDED IN THE PRICE PER SQUARE YARD OF "CLASS C BRIDGE DECK REPAIR".

CORROSION INHIBITOR (BRIDGE #269):

THIS WORK CONSISTS OF TREATING CONCRETE SURFACES WITH A PENETRATING CORROSION INHIBITOR AS SHOWN IN THE PLANS AND IN ACCORDANCE WITH SECTION 535.04D(a) OF THE ODOT 2019 STANDARD SPECIFICATIONS AND THE MANUFACTURER SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE SURFACE APPLIED CORROSION INHIBITORS THAT ARE ORGANOFUNCTIONAL SILANE BASED, USE CORROSION INHIBITORS THAT ARE DESIGNED TO WORK ON BOTH ANODIC AND CATHODIC AREAS.

BEFORE APPLYING THE CORROSION INHIBITOR TREATMENT SYSTEMS, CLEAN ALL CONCRETE SURFACES AND EXPOSED REINFORCEMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

APPLY THE CORROSION INHIBITOR AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. APPLY CORROSION INHIBITOR TO ENTIRE SURFACE AREA OF PREPARED PIER CAP PRIOR TO CLASS AA REPAIR.

ALL COSTS FOR FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, TESTING, AND INCIDENTALS NECESSARY FOR THE SURFACE PREPARATION AND APPLICATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD FOR "CORROSION INHIBITOR (SURFACE APPLIED)".

ANCHORAGE INTO EXISTING CONCRETE (BRIDGES #269 & #423):

REINFORCING STEEL AND DOWELS SHALL BE ANCHORED INTO EXISTING CONCRETE AS SHOWN IN THE PLANS. INSTALLATION OF NEW REINFORCING STEEL DOWELS INTO EXISTING CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 509.04.D(3) OF THE ODOT 2019 STANDARD SPECIFICATIONS AND IN A MANNER APPROVED BY THE ENGINEER.

DRILLING INTO EXISTING CONCRETE SHALL BE ACCOMPLISHED WITHOUT CUTTING INTO EXISTING REINFORCING STEEL. PRIOR TO DRILLING, THE CONTRACTOR SHALL LOCATE AND MARK THE EXISTING REINFORCING STEEL WITH NONDESTRUCTIVE TOOLS, EQUIPMENT AND METHODS APPROVED BY THE ENGINEER. IF EXISTING REINFORCING STEEL IS ENCOUNTERED, THE DRILLING SHALL CEASE AND THE HOLE GROUTED. THE HOLE SHALL THEN BE RELOCATED TO CLEAR THE EXISTING REINFORCING STEEL. ADJUSTMENTS TO THE LOCATION OF THE NEW REINFORCING STEEL FROM THE PLANS SHALL BE THE MINIMUM

AMOUNT NEEDED TO AVOID CUTTING THE EXISTING REINFORCING STEEL AND SHALL BE APPROVED BY THE ENGINEER.

NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THE ADJUSTMENT IN NEW REINFORCING BAR LENGTHS FOR THE RELOCATION OF ANCHORAGE HOLES DUE TO THE ENCOUNTERING OF EXISTING REINFORCING STEEL.

ALL COSTS INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO DRILL AND EPOXY GROUT THE REINFORCING STEEL AND DOWELS AS SHOWN IN THE PLANS FOR BRIDGES #269 AND #423 SHALL BE INCLUDED IN THE PRICE BID PER POUND OF REINFORCING STEEL.

ELASTOMERIC COATING (BRIDGE #269):

THE ELASTOMERIC COATING IS MEASURED IN SQUARE FEET AND SHALL BE A LIQUID APPLIED URETHANE COATING SUCH AS CIM 1000 AS MANUFACTURED BY CIM INDUSTRIES, INC., POLYCOAT PC-IM-129 AS MANUFACTURED BY POLYCOAT PRODUCTS, OR AN APPROVED EQUAL.

THE ELASTOMERIC COATING SHALL BE APPLIED TO THE AREAS SHOWN IN THE PLANS. THE FINISH SHALL BE NEAT STRAIGHT LINES FOR APPROVAL.

THE EQUIPMENT AND METHODS OF APPLYING THE URETHANE COATING SHALL BE IN ACCORDANCE WITH THE PRODUCT COATING PROFILE AND INSTRUCTION GUIDES FOR APPLICATION TO CONCRETE. PRECAUTIONARY MEASURES SHALL BE IN ACCORDANCE WITH THE MATERIAL SAFETY DATA SHEETS AS PROVIDED BY THE MANUFACTURER.

THE COATING SHALL BE 60 MILS DRY THICKNESS AND 68 MILS WET THICKNESS. SURFACE PREPARATION AND PRODUCT MIXING SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS. PRIMER SHALL BE APPLIED TO THE CONCRETE SURFACES PRIOR TO APPLYING THE URETHANE COATING. ALL CONCRETE WORK SHALL BE COMPLETED PRIOR TO THE APPLICATION OF THE ELASTOMERIC COATING.

WATER REPELLENT SHALL NOT BE REQUIRED ON SURFACES THAT ARE COATED WITH ELASTOMERIC COATING.

ALL COSTS INCURRED DURING APPLICATION OF ELASTOMERIC COATING SHALL BE INCLUDED IN THE PRICE BID PER SQUARE FOOT OF "ELASTOMERIC COATING".

WATER REPELLENT (VISUALLY INSPECTED) (BRIDGE #269):

AFTER REPAIRS ARE COMPLETE AND CONCRETE OR EPOXY RESIN HAS CURED A MINIMUM OF SEVEN DAYS, A PENETRATING WATER REPELLENT SURFACE TREATMENT SHALL BE APPLIED TO THE PIER CAP, COLUMNS, ABUTMENT SEAT AND FACE, AND WINGWALLS, AS SHOWN IN THE PLANS. ALL COSTS INCLUDING COST OF MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD OF "WATER REPELLENT (VISUALLY INSPECTED)".

PAINTING EXISTING STRUCTURES (BRIDGES #201C & #269):

THE EXISTING BRIDGES MAY CONTAIN A LEAD BASED PAINT SYSTEM. A CURRENT SSPC C3 OR C5 REFRESHER-SUPERVISOR/COMPETENT PERSON CERTIFICATION FOR DELEADING INDUSTRIAL STRUCTURES FOR CONTRACT PERSONNEL RESPONSIBLE FOR WASTE COLLECTION AND DISPOSAL CERTIFICATION IS REQUIRED.

THE EXPOSED SURFACES OF THE FIXED AND EXPANSION BEARINGS SHALL BE CLEANED AND PAINTED.



5-16-2025

GENERAL CONSTRUCTION NOTES (2)

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

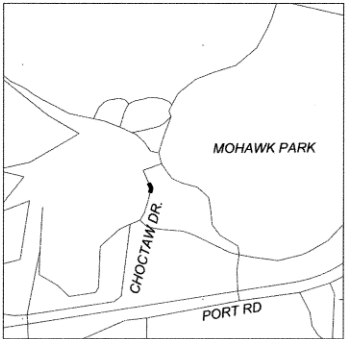


Benham Design, LLC

REVISION	BY	DATE	PLAN SCALE	DRAWN	ATB	5/25	APPROVED:
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			PROFILE SCALE	SURVEY	RDL	5/25	
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			1"= 1/4"	FIELD MGR	Jau 6/15		
			VERTICAL:	LEAD ENGR	6/15		
			1"= 1/4"	RECOMMENDED			
				DESIGN MANAGER	HQS 6-25		
FILE: 1400361_MZ6035_Br201C_269_286_423_Gen Notes.dgn							CITY ENGINEER
ATLAS PAGE NO.: 131, 132, 286, 352, 431, 1276							DATE: MAY 2025
							SHEET 6 OF 22 SHEETS



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KEYMAP

LEGEND

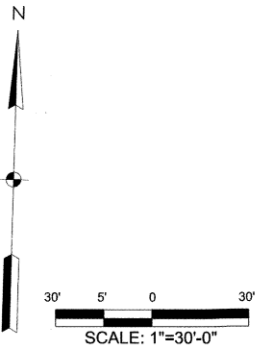
- SIGN
- SIGN NUMBER

NOTE:

BUSINESS ACCESS SHALL REMAIN OPEN DURING ALL PHASES OF THE PROJECT.

TRAFFIC CONTROL SHALL USE MUTCD STANDARDS WITH A 10 MPH CONSTRUCTION SPEED ZONE.

TULSA ZOO PERSONAL WILL BE INFORMED OF ALL ZOO PROJECT WORK PRIOR TO CONSTRUCTION AT (918)669-6637. TULSA ZOO PERSONAL INCLUDE LINDSAY HUTCHISON, CODY DUNKIN, AND PAT WEISZ.



BRIDGE 201C TRAFFIC CONTROL

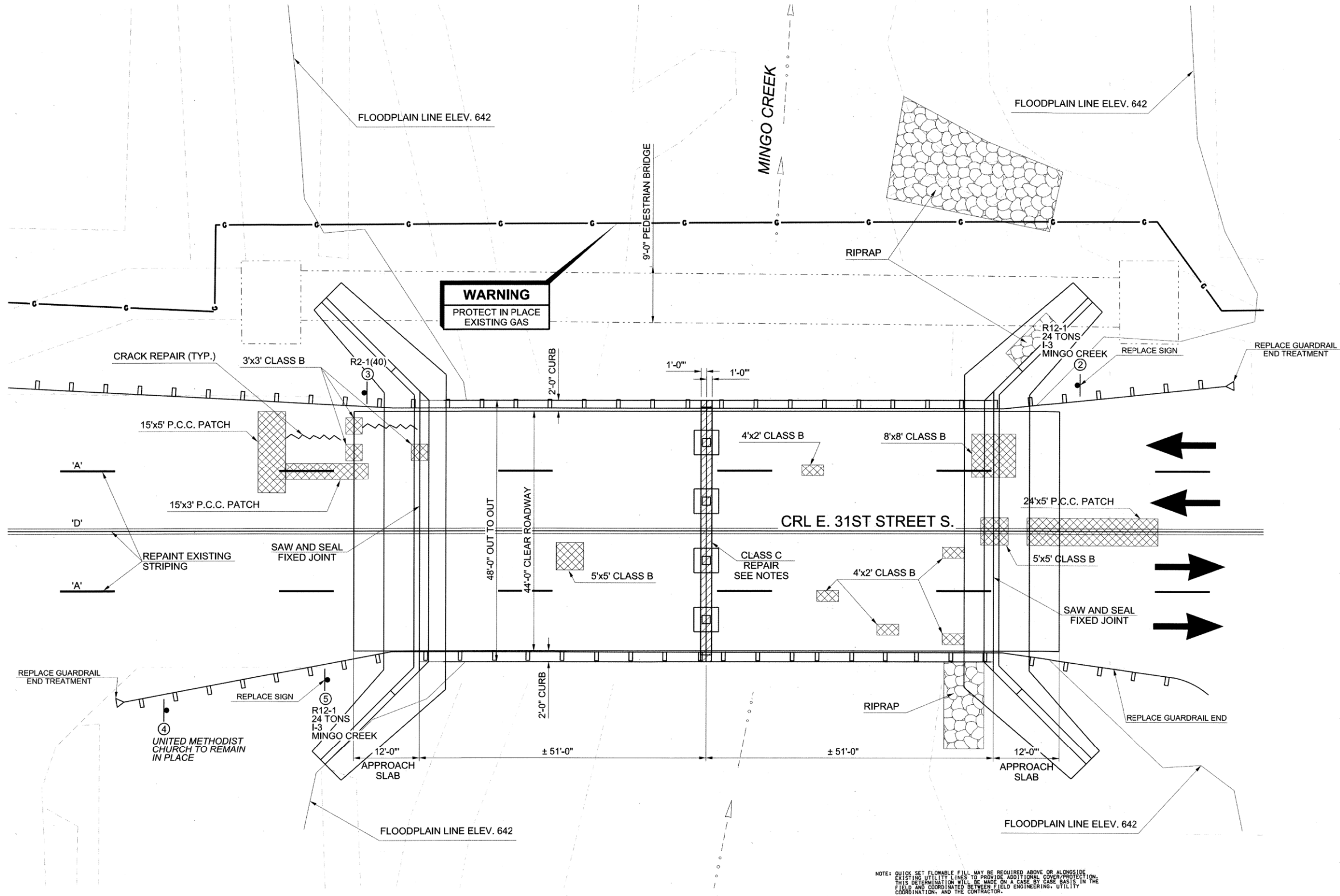
BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

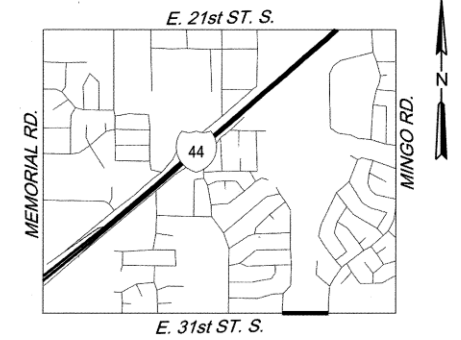
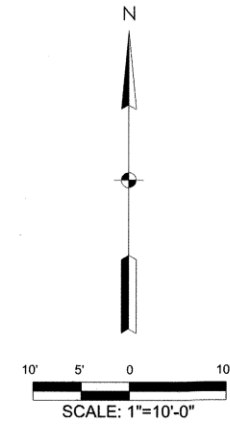
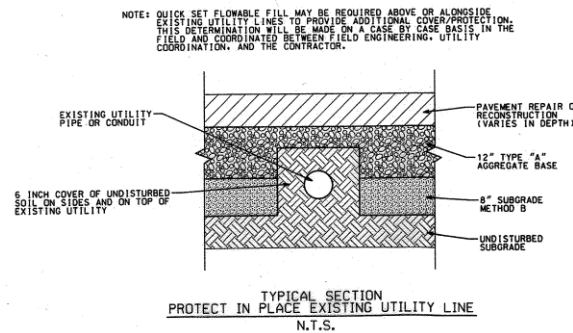


REVISION	BY	DATE	PLAN SCALE	DRAWN	ATB	5/25	APPROVED:
			DESIGNED	KSJ		5/25	
			SURVEY	RDL		5/25	
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL:	FIELD MGR			
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			FILE: 1400361_M26035_Br201C_Const_Seq.dgn				
			ATLAS PAGE NO.: 286	286, 352, 431, 1276			





PLAN



LEGEND

- SIGN
- SIGN NUMBER
- TYPE 'A' LINE
- TYPE 'D' LINE
- 4" BROKEN WHITE LINE
- 4" DOUBLE YELLOW CENTERLINE LINE

NOTES

- REMOVE AND REPLACE CURB A DISTANCE NOT GREATER THAN 1' EITHER SIDE OF THE JOINT TO ACCESS BEAM ENDS BUT NOT DISTURB GUARDRAIL OR RAIL POSTS.
- IF GUARDRAIL OR RAIL POSTS IMPEDE THE REMOVAL OF CONCRETE AT THE EXPANSION JOINT LOCATION, THE GUARDRAIL OR POSTS SHALL BE TEMPORARILY REMOVED AND RESET AFTER COMPLETION OF THE EXPANSION JOINT AND BEAM WORK.
- ALL COSTS TO REMOVE AND RESET GUARDRAIL OR POSTS SHALL BE INCLUDED IN THE COST OF CLASS C BRIDGE DECK REPAIR.
- PAVEMENT MARKINGS SHALL MATCH EXISTING.



5-16-2025

BRIDGE 269 REHABILITATION
PLAN

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM Benham Design, LLC
a Haskell Company

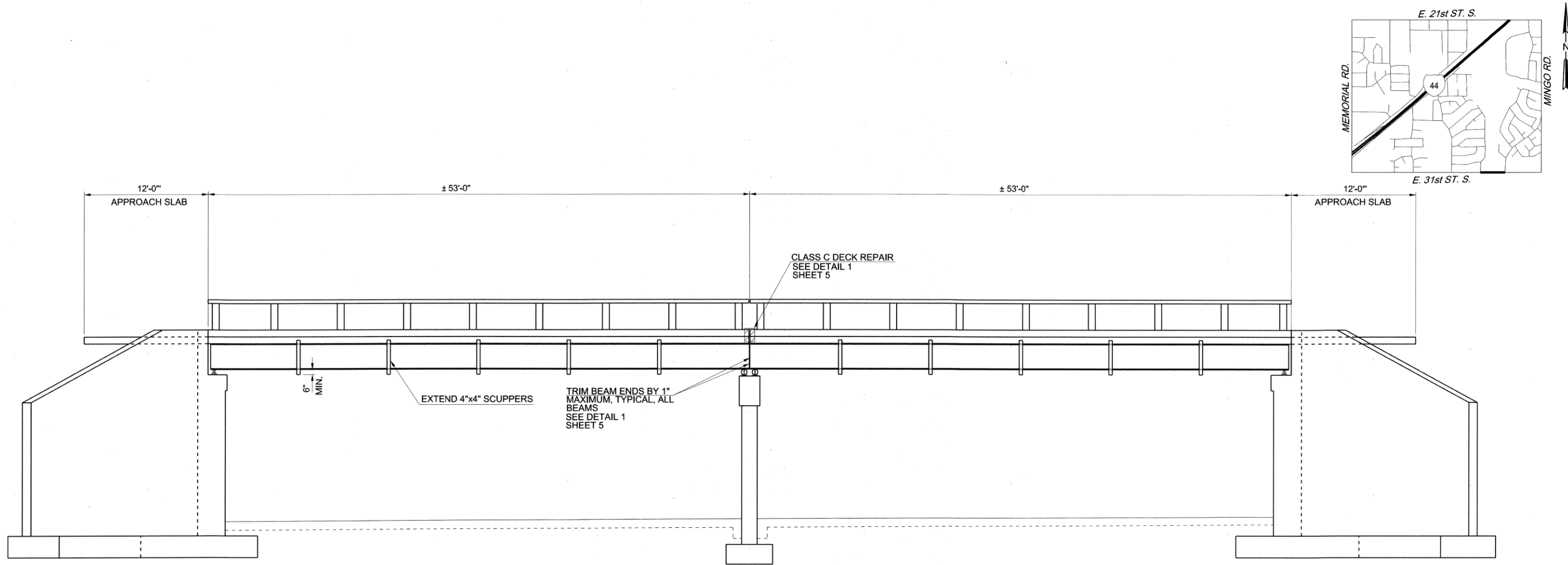
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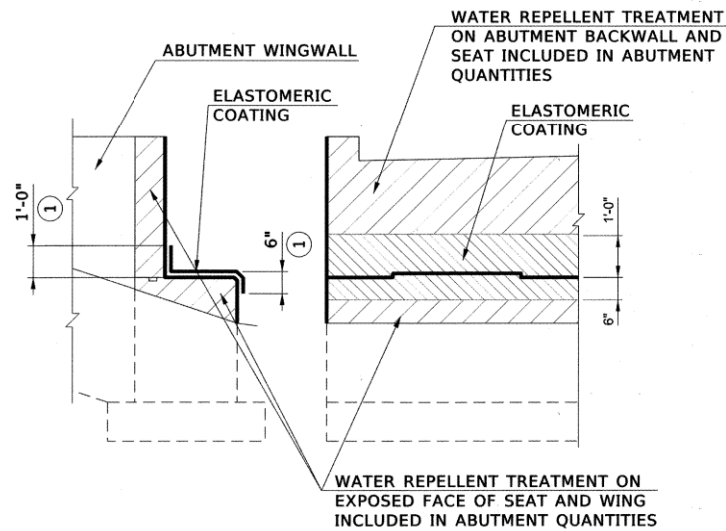
DATE: MAY 2025

SHEET 9 OF 22 SHEETS

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ELEVATION



SIDE

ELEVATION

ABUTMENT SURFACE TREATMENT DETAILS

NOTE:
APPLY ELASTOMERIC COATING BEFORE
ANY OTHER SURFACE TREATMENTS.

- ① COAT ALL EXPOSED CONCRETE ON TOP OF PIER CAP AND 6" MIN. DOWN ON VERTICAL FACE OF PIER CAP WITH ELASTOMERIC COATING. SURFACE TO BE SANDBLASTED AND PRIMED AS RECOMMENDED BY THE MANUFACTURER. MASKING SHALL BE USED TO PROVIDE A CLEAN RESULT.

NOTES:

1. CLEAN ABUTMENT SEATS OF DEBRIS PRIOR TO SURFACE TREATMENT APPLICATIONS.
2. DO NOT APPLY ELASTOMERIC COATING TO LOCATIONS UNDER BEARINGS.



5-16-2025

BRIDGE 269 REHABILITATION
ELEVATION

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

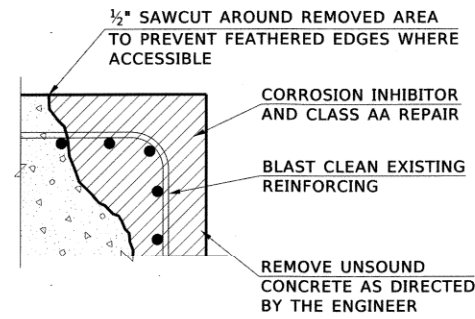
BENHAM Benham Design, LLC
15 West 6th Street, Suite 900
Tulsa, OK 74119
(918)599-4155

REVISION	BY	DATE	PLAN SCALE	DRAWN	BEW	5/25	APPROVED:
			DESIGNED	KSJ		5/25	
			SURVEY	RDL		5/25	
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL:	FIELD MGR			
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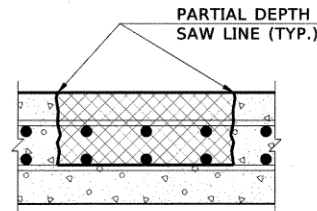


DATE: MAY 2025

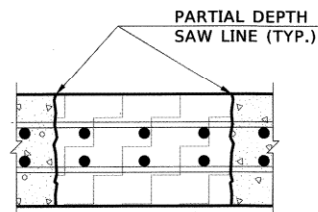
SHEET 10 OF 22 SHEETS



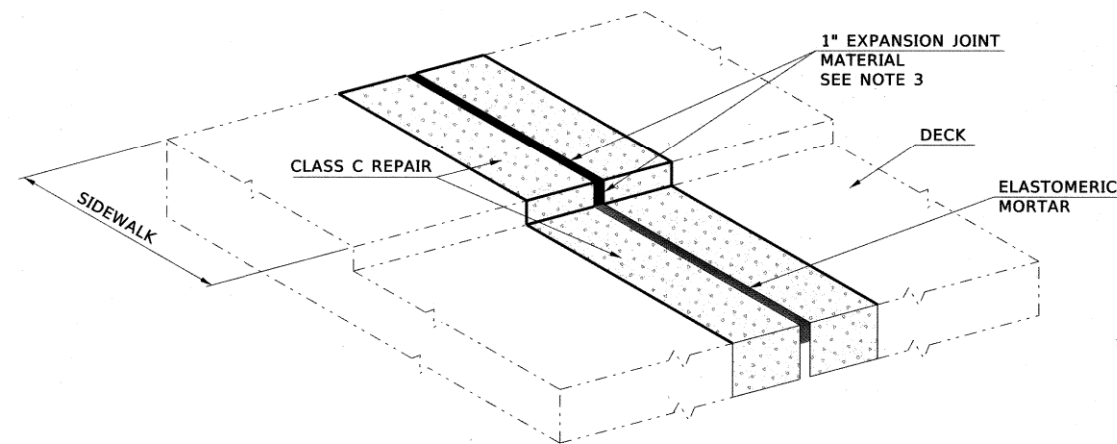
**CLASS AA
CONCRETE REPAIR TYPICAL DETAIL**



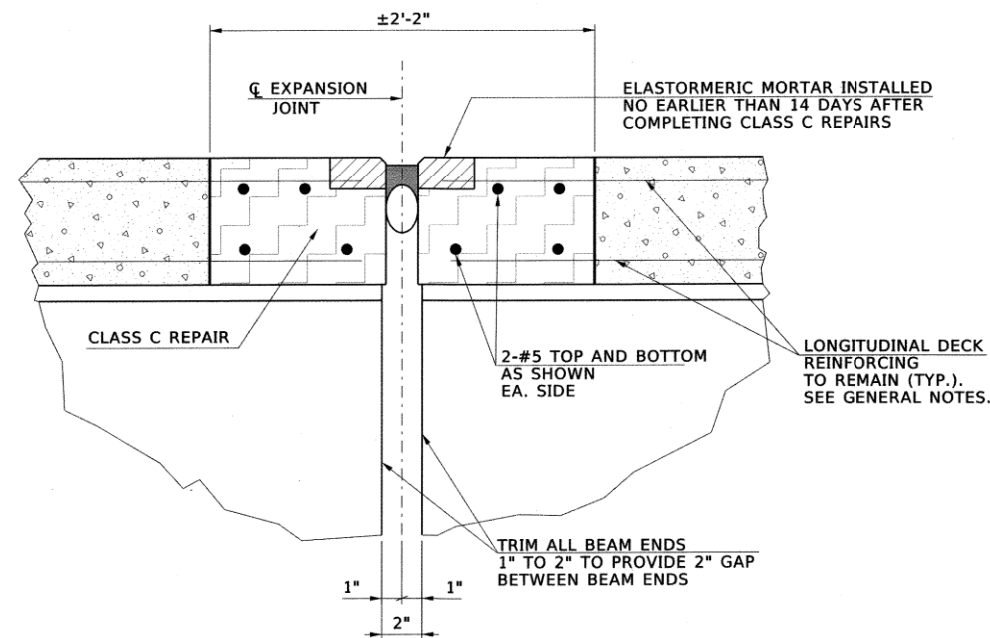
CLASS B REPAIR DETAIL
(MAXIMUM DEPTH IS TO LOWER REINFORCING MAT)



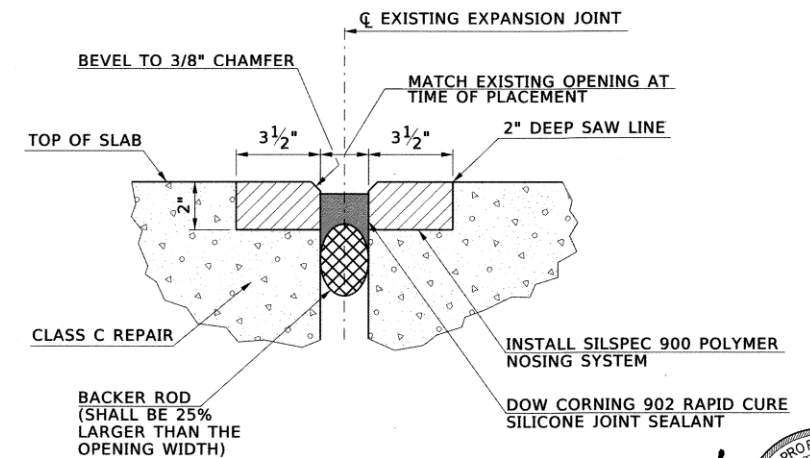
CLASS C REPAIR DETAIL
(FULL DEPTH)



(BRIDGE RAILING NOT SHOWN FOR CLARITY)
**TYPICAL DETAIL
EXPANSION JOINT AT CURB**



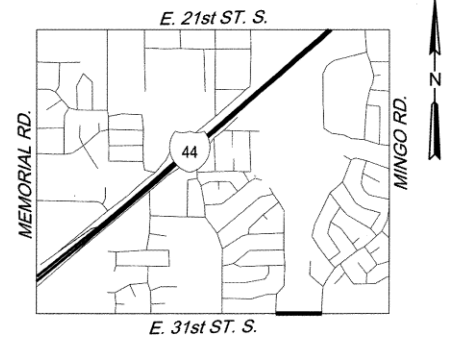
EXPANSION JOINT LOCATION
NTS



ELASTOMERIC MORTAR INSERT DETAIL
NTS

NOTES:

1. FOR CLASS C REPAIR, CONTRACTOR SHALL FIELD VERIFY THICKNESS OF DECK AND CURB.
2. FOR CLASS AA REPAIR AT EXISTING PIER, REMOVE UNSOUND CONCRETE, CLEAN EXPOSED REINFORCEMENT AND APPLY CORROSION INHIBITOR AS SPECIFIED IN SECTION 535 OF STANDARD SPECIFICATIONS. THIS REPAIR IS WITHIN ENCASUREMENT AND WILL BE FILLED BY OVERALL ENCASUREMENT.
3. REMOVE EXISTING STEEL SIDEWALK COVER PLATE AND REPLACE WITH 1" EXPANSION JOINT MATERIAL.



5-16-2025

BRIDGE 269 REHABILITATION
MISCELLANEOUS DETAILS

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

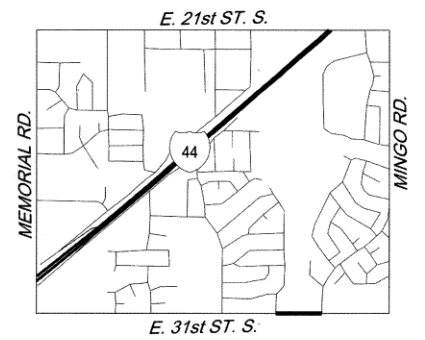
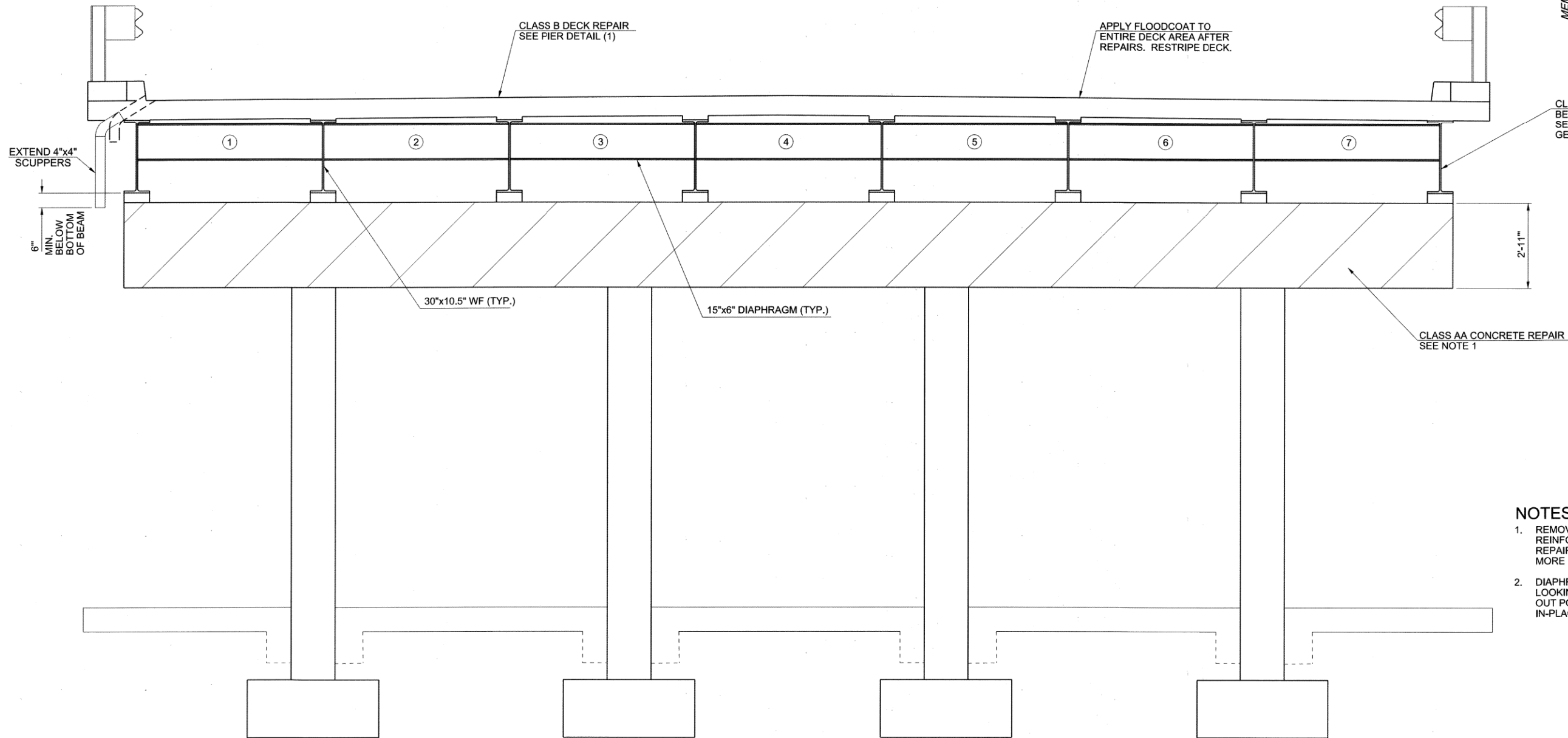
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM Benham Design, LLC
15 West 6th Street, Suite 900
Tulsa, OK 74119
(918)599-4155

REVISION	BY	DATE	PLAN SCALE	DRAWN	ATB	5/25	APPROVED:
			1"=10'	DESIGNED	KSJ	5/25	
				SURVEY	RDL	5/25	
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL	FIELD MGR			
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CLEAN AND PAINT STEEL BEAMS AND DIAPHRAGMS. SEE NOTE 2 AND BRIDGE GENERAL NOTES.

NOTES:

1. REMOVE UNSOUND CONCRETE, CLEAN EXPOSED REINFORCEMENT, APPLY CORROSION INHIBITOR AND REPAIR WITH CLASS AA CONCRETE. SEE SHEET 5 FOR MORE DETAILS.
2. DIAPHRAGM NO. 4 AS DESIGNATED IN ELEVATION VIEW LOOKING EAST SHALL BE PARTIALLY REMOVED OF RUSTED OUT PORTIONS. CONTRACTOR MAY LEAVE CONNECTIONS IN-PLACE.



5-16-2025

BRIDGE 269 REHABILITATION
PIER ELEVATION

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT



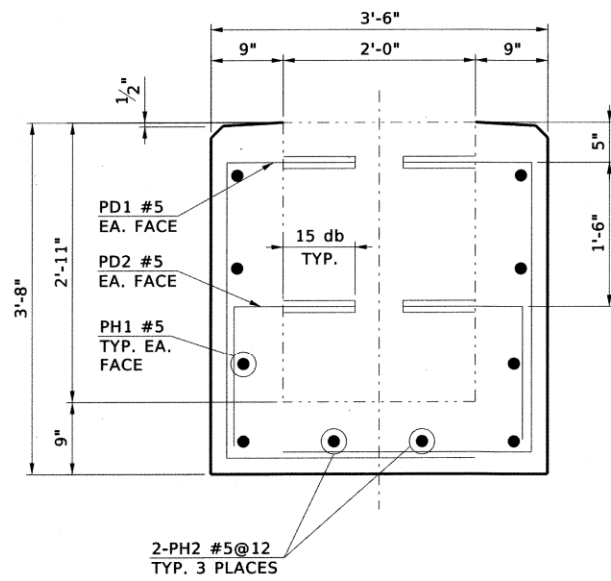
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	FIELD MGR						
	LEAD ENGR						
	RECOMMENDED						
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DATE: MAY 2025

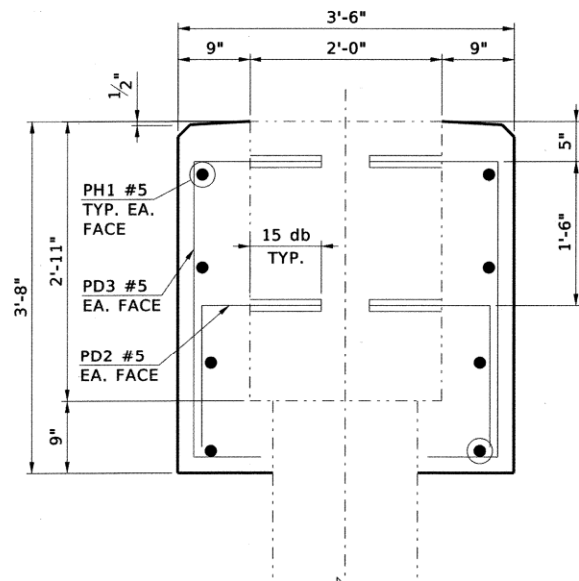
SHEET 13 OF 22 SHEETS



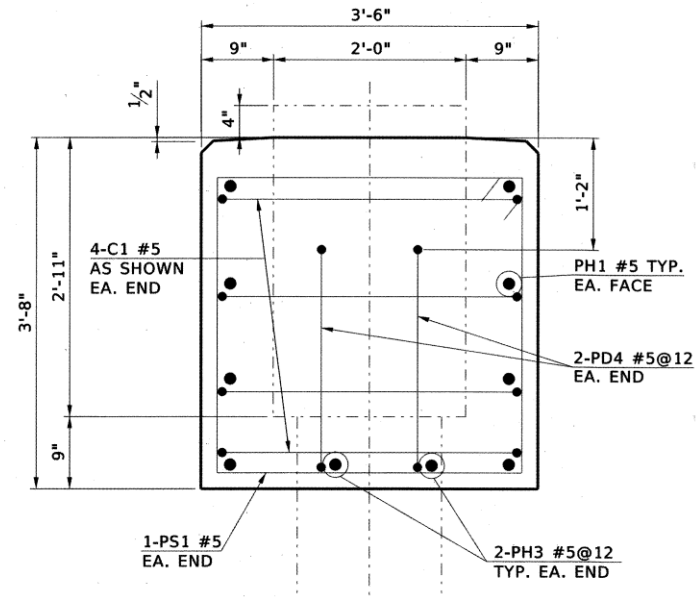
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SECTION A-A



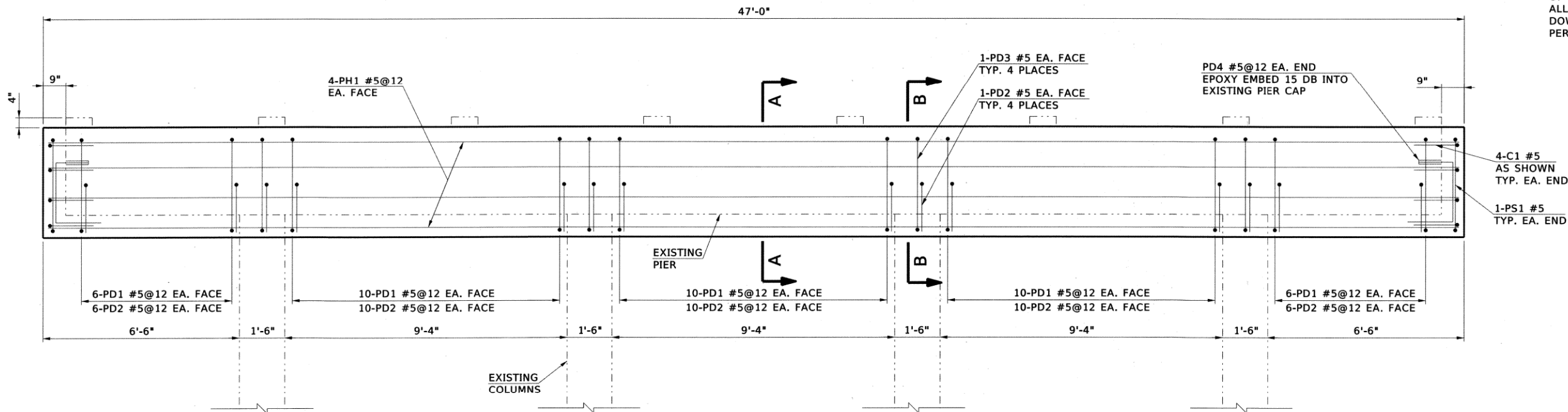
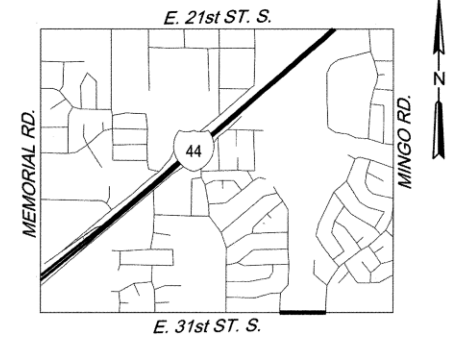
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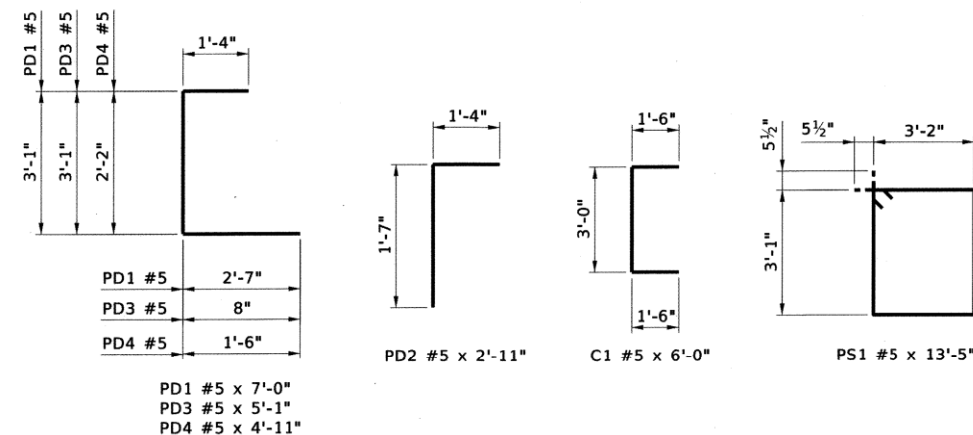
END VIEW

NOTES:

1. ALL NEW REINFORCING TO BE 2" CLEAR UNLESS NOTED OTHERWISE.
2. ALL EDGES OF PIER CAP SHALL HAVE A 1 1/2" CHAMFER.
3. CONTRACTOR SHALL DRILL AND EPOXY GROUT A MINIMUM OF (15xdb) OR AS PER MANUFACTURER'S SPECIFICATIONS. ALL COST FOR DRILL AND EPOXY GROUT (INCLUDING PD #5 DOWEL BARS) SHALL BE INCLUDED IN THE BID PRICE PER LB OF "REINFORCING STEEL".



ELEVATION



PIER CAP BAR LIST
(ONE SHOWN, ONE REQUIRED)

EPOXY COATED REINFORCING					
MARK	SIZE	QTY.	FORM	LENGTH	REMARKS
C1	#5	8	BNT.	6'-0"	
PD1	#5	84	BNT.	7'-0"	
PD2	#5	92	BNT.	2'-11"	
PD3	#5	8	BNT.	5'-1"	
PD4	#5	4	BNT.	4'-11"	
PH1	#5	8	STR.	46'-8"	
PH2	#5	6	STR.	9'-0"	
PH3	#5	4	STR.	6'-2"	
PS1	#5	2	BNT.	13'-5"	

PIER QUANTITIES

ITEM	UNIT	TOTAL
CLASS AA CONCRETE	CY	14.2
EPOXY COATED REINFORCING STEEL	LB	1510
WATER REPELLANT (VISUALLY INSPECTED)	SY	77.7
ELASTOMERIC COATING	SF	215.0
CORROSION INHIBITOR	SY	78



5-16-2025

BRIDGE 269 REHABILITATION
PIER DETAILS

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

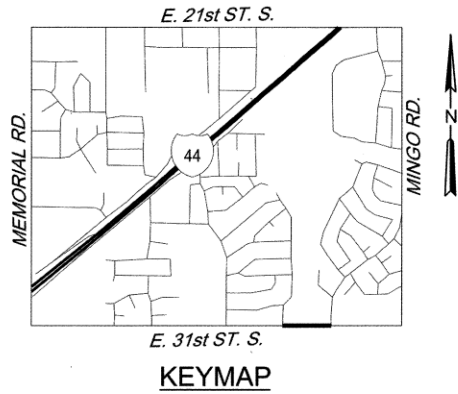
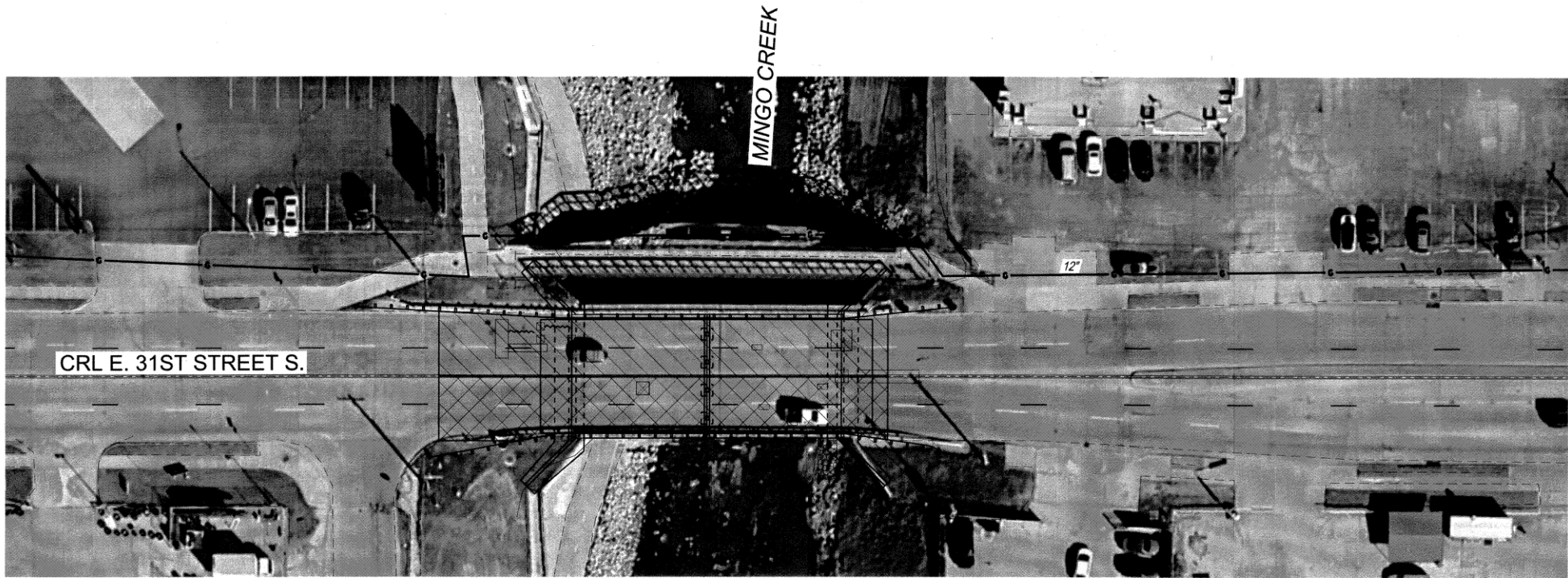
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT



REVISION	BY	DATE	PLAN SCALE	DRAWN	BEW	5/25	APPROVED:
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				SURVEY	RDL	5/25	
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL	FIELD MGR			
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			ATLAS PAGE NO: 131, 132, 286, 352, 431, 1276				

CITY ENGINEER
DATE: MAY 2025
SHEET 14 OF 22 SHEETS

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NOTE:
BUSINESS AND RESIDENTIAL ACCESS SHALL REMAIN OPEN DURING ALL PHASES OF THE PROJECT.
BUSINESS ACCESS SIGNS SHALL BE USED DURING CONSTRUCTION.
ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES.
ONLY ONE PHASE SHALL BE DISTURBED AT ANY TIME.
TRAFFIC CONTROL SHALL USE MUTCD STANDARDS WITH A 25 MPH CONSTRUCTION SPEED ZONE.
LANE CLOSURES AND DRUMS SHALL NOT ENCROACH INTO INTERSECTION OF E. 31ST STREET S. & S. MINGO RD.
OPEN MILLED OR EXPOSED SURFACES WILL BE AT THE CONTRACTOR'S RISK IN THE EVENT LOCAL OR CONSTRUCTION TRAFFIC CAUSES DAMAGE TO ANY SURFACES.

LEGEND:
PHASE 1
PHASE 2

30' 5' 0 30'
SCALE: 1"=30'-0"

Karen Swater Jones
KAREN SWATER JONES
28517
OKLAHOMA
5-16-2025

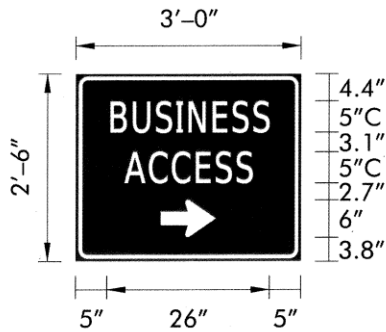
BRIDGE 269 REQUIRED SEQUENCE OF CONSTRUCTION AND TRAFFIC CONTROL

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM Benham Design, LLC
15 West 6th Street, Suite 900
Tulsa, OK 74119
(918)599-4155

REVISION	BY	DATE	PLAN SCALE	DRAWN	BEW	5/25	APPROVED:
			1"=1/4"	DESIGNED	KSJ	5/25	
				SURVEY	RDL	5/25	
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL: 1"=1/4"	FIELD MGR	<i>Jam</i>	6/15	
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			ATLAS PAGE NO.: 131, 132, 286, 352, 431, 1276				DATE: MAY 2025



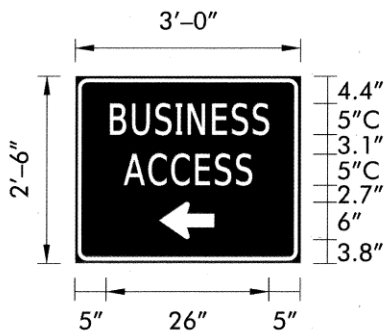
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CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type D	270	13.5	3.8	6	9

Dimensions are in inches, tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE
B	U	S	I	N	E	S	S						C 2000
5	8.7	12.3	16	17.8	21.7	24.8	28.2					26	5
A	C	C	E	S	S								C 2000
7.7	11.5	15.2	19	22.1	25.5							20.7	5

SIGN BAS(R)
7.5 SF



SIGN NUMBER	SP. SIGN BAS(L)
WIDTH x HGT.	3' -0" x 2' -6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

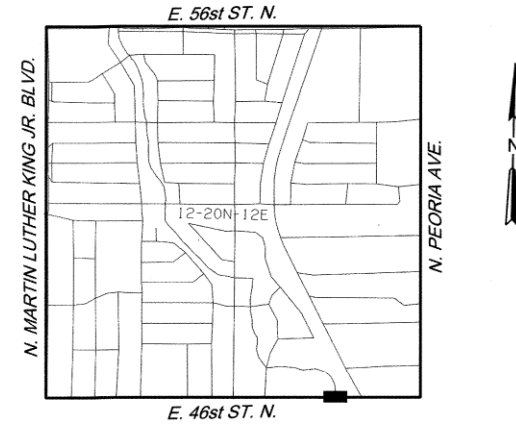
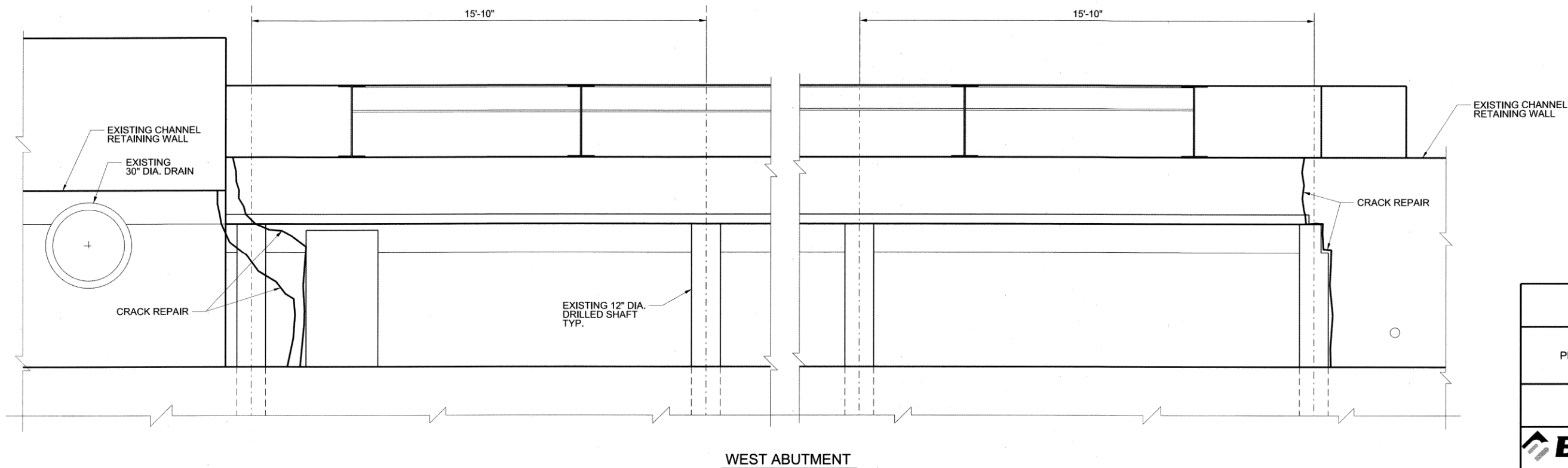
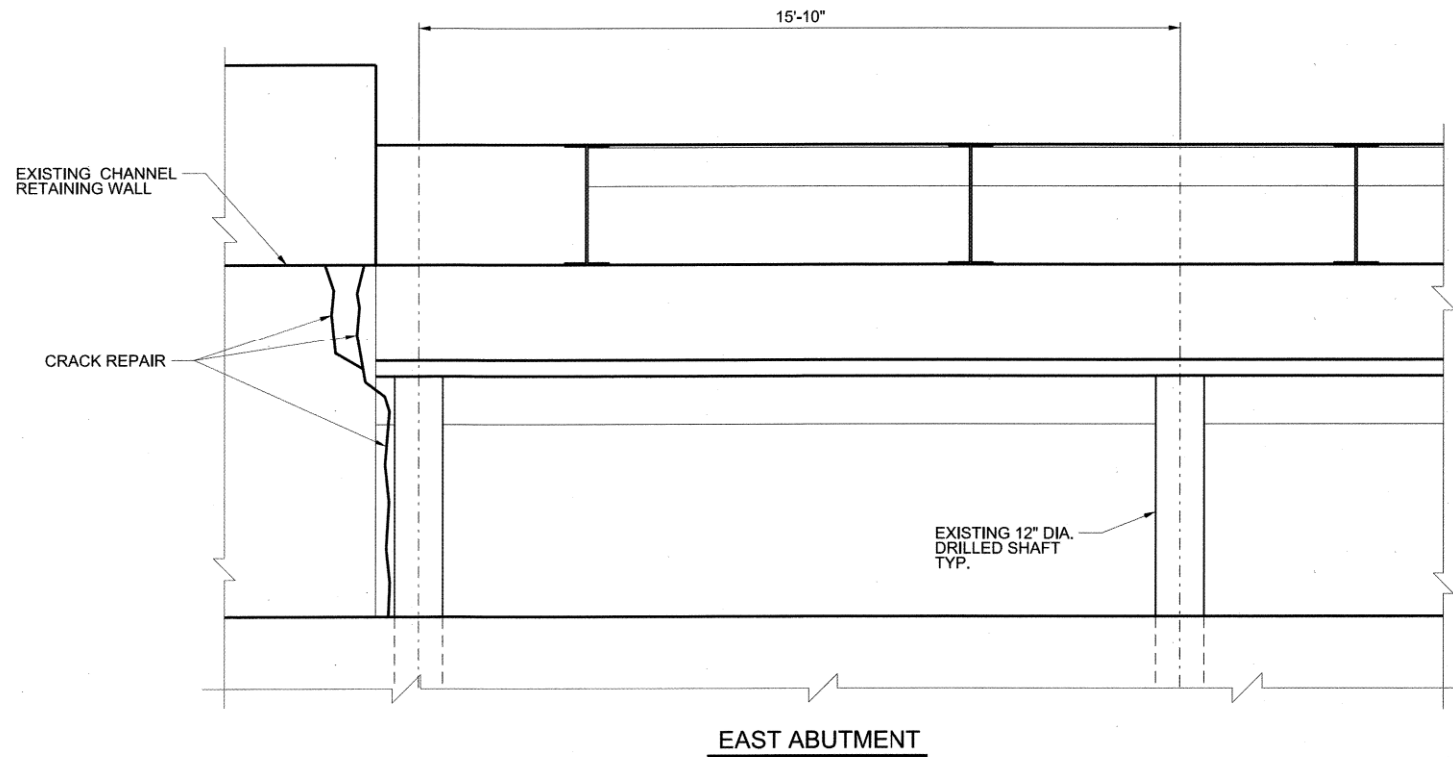
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	90	13.5	3.8	6	9

Dimensions are in inches, tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIES/SIZE
B	U	S	I	N	E	S	S						C 2000
5	8.7	12.3	16	17.8	21.7	24.8	28.2					26	5
A	C	C	E	S	S								C 2000
7.7	11.5	15.2	19	22.1	25.5							20.7	5

SIGN BAS(L)
7.5 SF

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NOTES:

1. ALL DIMENSIONS AND COMPONENTS OF EXISTING BRIDGE SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS NECESSARY TO COMPLETE THE WORK AND BE SOLELY RESPONSIBLE FOR THE ACCURACY THEREOF.
2. BIDDERS SHALL FULLY INFORM THEMSELVES OF THE NATURE OF THE WORK AND CONDITIONS UNDER WHICH IT WILL BE PERFORMED. THE CONTRACTOR SHALL ADOPT METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL NECESSARY PRECAUTIONS WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING BRIDGE STRUCTURE AND ROADWAY. DAMAGE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE PREPARED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

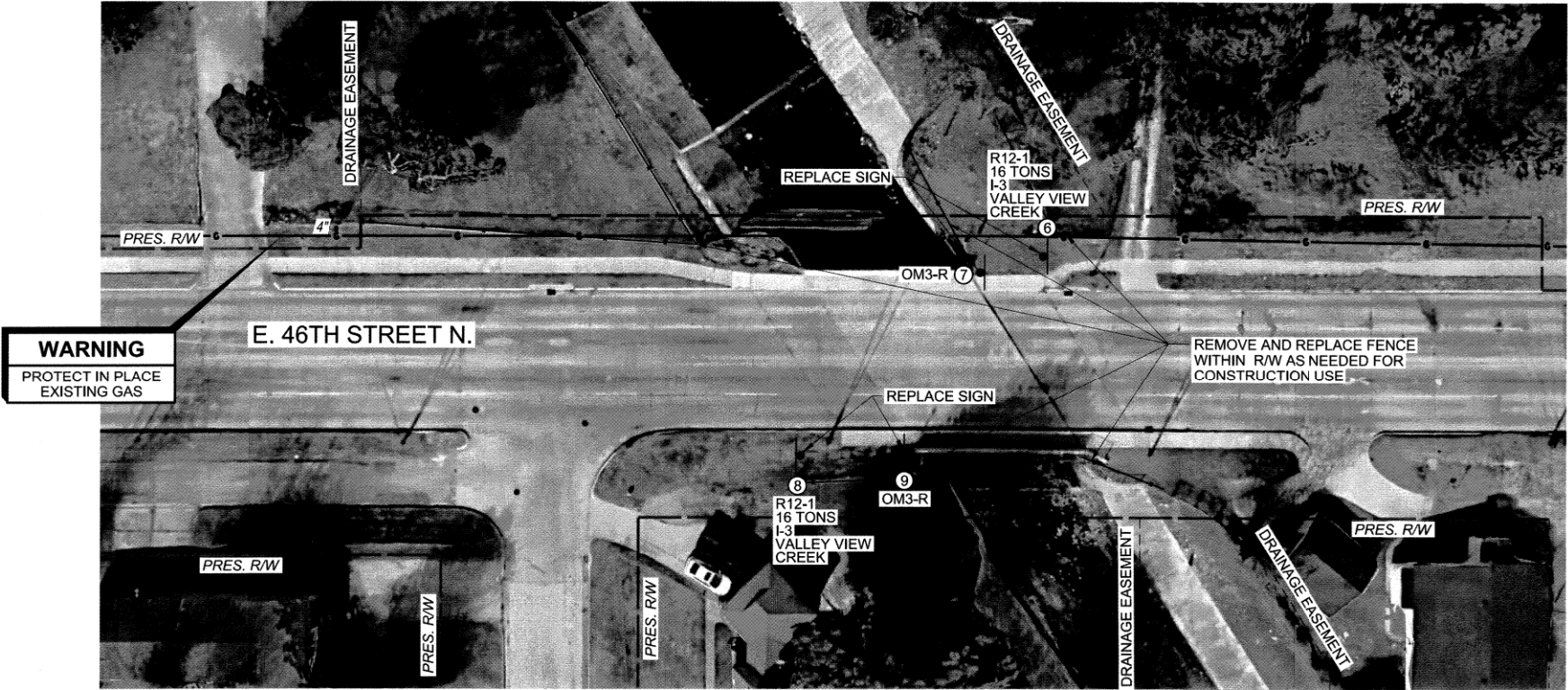


BRIDGE 286 REHABILITATION DETAILS	
BRIDGE REHABILITATION PROJECT NO. 2037B0201C, 2037B0269Z, 2037B02867, 2037B0423	
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT	
BENHAM Benham Design, LLC a Haskell Company	

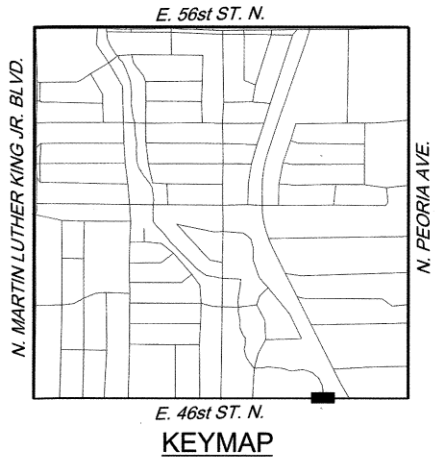
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			DESIGNED	KSJ	5/25		
			SURVEY	RDL	5/25		
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL:	FIELD MGR	6/25		
			VERTICAL:	LEAD ENGR	6/25		
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REFER TO BRIDGE 269 REQUIRED
SEQUENCE OF CONSTRUCTION AND
TRAFFIC CONTROL FOR BUSINESS
ACCESS SIGN DETAILS



LEGEND

- SIGN
- SIGN NUMBER

NOTE:

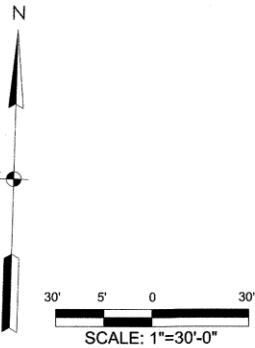
BUSINESS AND RESIDENTIAL ACCESS SHALL REMAIN OPEN DURING ALL PHASES OF THE PROJECT.

OSAGE PRAIRE TRAIL ACCESS SHALL REMAIN OPEN DURING ALL PHASES OF THE PROJECT.

BUSINESS ACCESS SIGNS SHALL BE USED DURING CONSTRUCTION.

ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES.

TRAFFIC CONTROL SHALL USE MUTCD STANDARDS WITH A 25 MPH CONSTRUCTION SPEED ZONE.



Karen Jones
KAREN JONES
28517
OKLAHOMA
5-16-2025

BRIDGE 286 TRAFFIC CONTROL

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

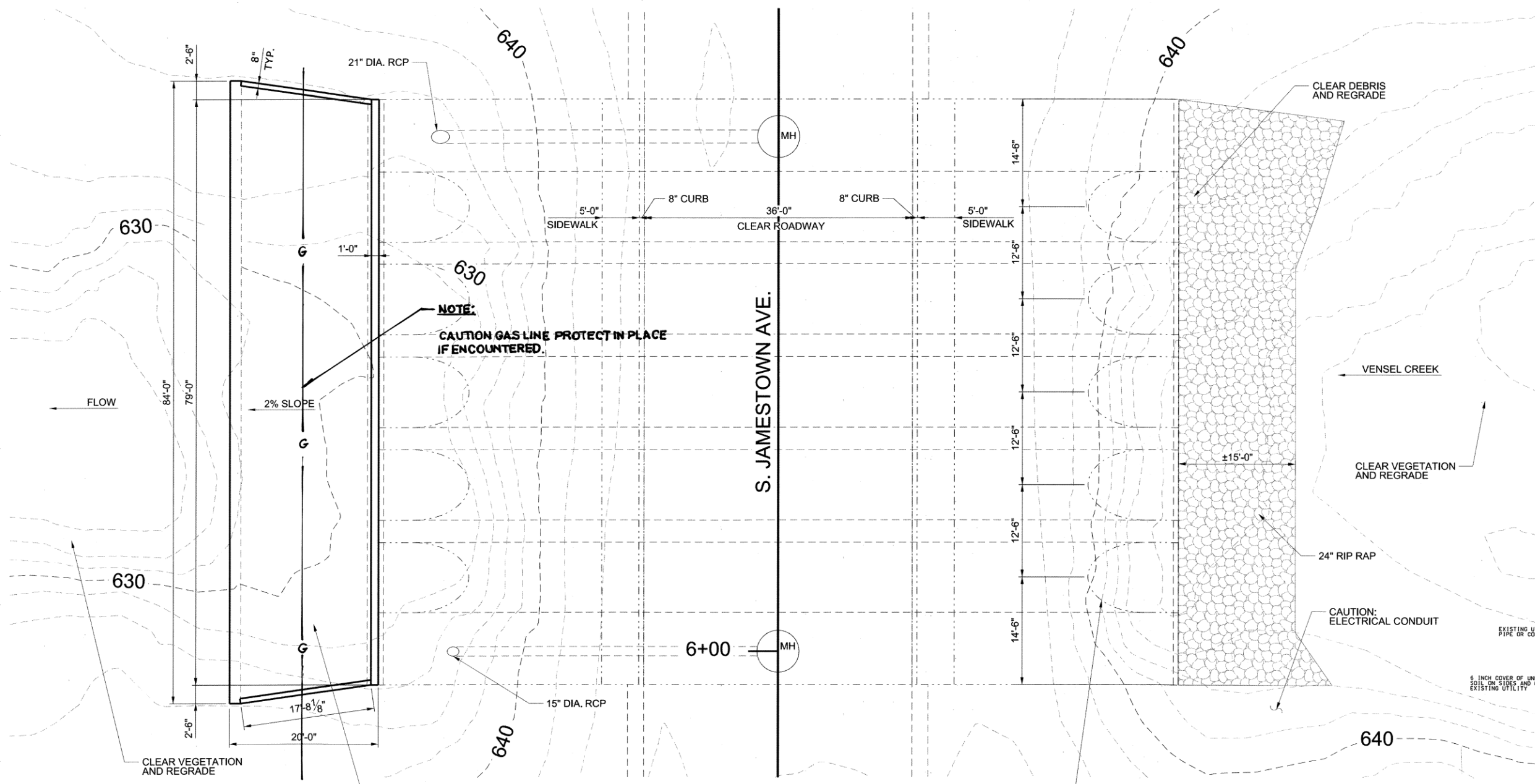
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM Benham Design, LLC
15 West 6th Street, Suite 900
Tulsa, OK 74119
(918)599-4155

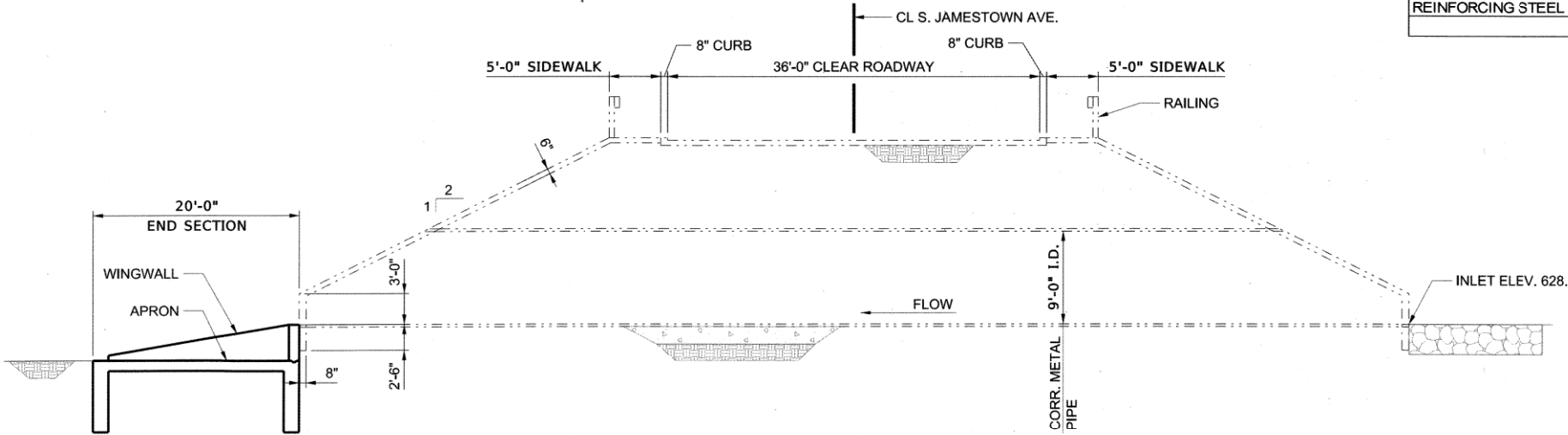
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			SURVEY	RDL	5/25		
			PROJECT MGR				
			FIELD MGR		6/25		
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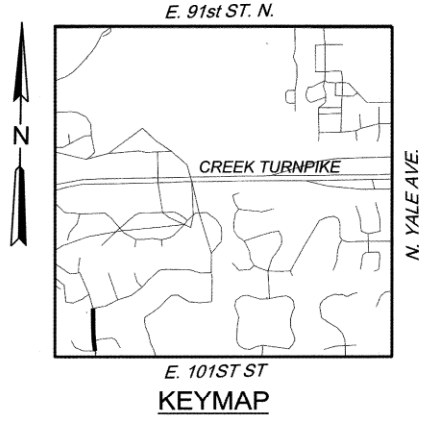
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PLAN

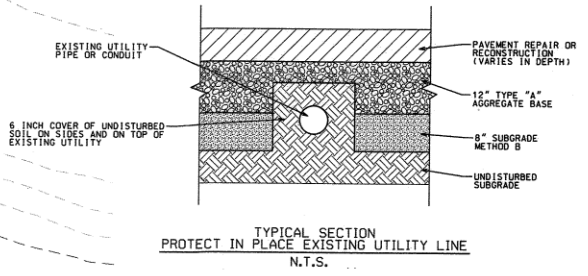


ELEVATION



- NOTES:**
- ALL DIMENSIONS AND COMPONENTS OF EXISTING BRIDGE SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS NECESSARY TO COMPLETE THE WORK AND BE SOLELY RESPONSIBLE FOR THE ACCURACY THEREOF.
 - BIDDERS SHALL FULLY INFORM THEMSELVES OF THE NATURE OF THE WORK AND CONDITIONS UNDER WHICH IT WILL BE PERFORMED. THE CONTRACTOR SHALL ADOPT METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL NECESSARY PRECAUTIONS WITH GOOD CONSTRUCTION PRACTICE TO PREVENT DAMAGE TO THE EXISTING BRIDGE STRUCTURE AND ROADWAY. DAMAGE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE PREPARED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.

NOTES: QUICK SET FLOWABLE FILL MAY BE REQUIRED ABOVE OR ALONGSIDE EXISTING UTILITY LINES TO PROVIDE ADDITIONAL COVER PROTECTION. THIS DETERMINATION WILL BE MADE ON A CASE BY CASE BASIS IN THE FIELD AND COORDINATED BETWEEN FIELD ENGINEERING, UTILITY FIELD, AND THE CONTRACTOR.

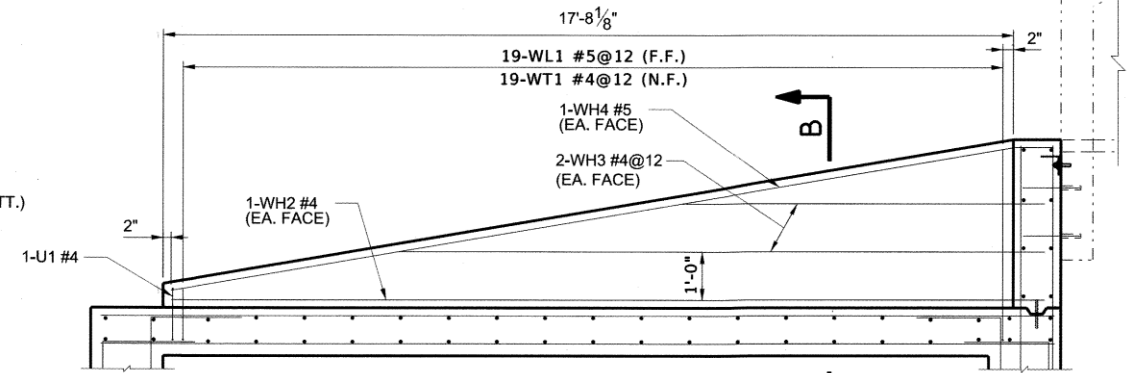


END SECTION QUANTITIES			
ITEM	UNIT	TOTAL	
CLASS AA CONCRETE	CY	126.8	
REINFORCING STEEL	LB	16060	

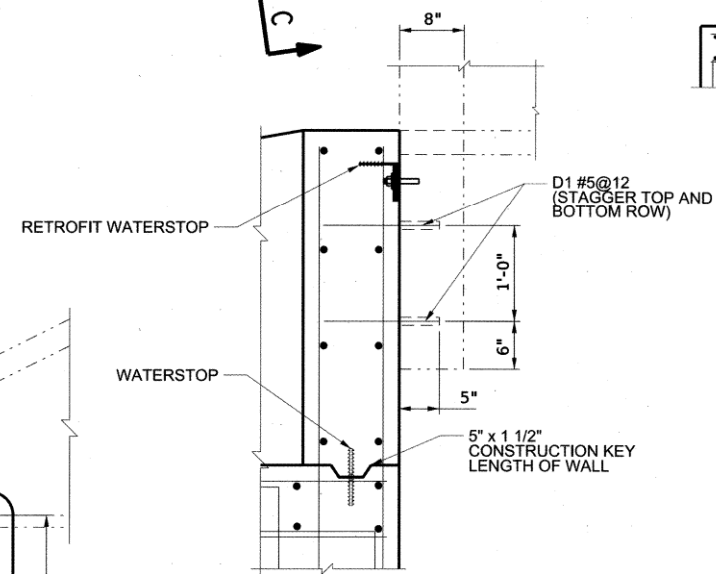
Karen Jones
Professional Engineer
KAREN SWATER JONES
28517
OKLAHOMA
5-16-2025

BRIDGE 423 REHABILITATION PLAN AND ELEVATION			
BRIDGE REHABILITATION PROJECT NO. 2037B0201C, 2037B0269Z, 2037B02867, 2037B0423			
CITY OF TULSA, OKLAHOMA PUBLIC WORKS DEPARTMENT			
BENHAM Benham Design, LLC a Haskell Company			
REVISION	BY	DATE	APPROVED:
1st N/A	DESIGNED	ATB 5/25	
	DESIGNED	KSJ 5/25	
	SURVEY	RDL 5/25	
	PROJECT MGR		
	FIELD MGR		
	FIELD MGR		
	LEAD ENGR		
	RECOMMENDED		
	DESIGN MANAGER		
FILE: 1400361_MZ0305_Br423_Plan.dgn			CITY ENGINEER
ATLAS PAGE NO: 131, 132, 286, 352, 431, 1276			DATE: MAY 2025
			SHEET 18 OF 22 SHEETS



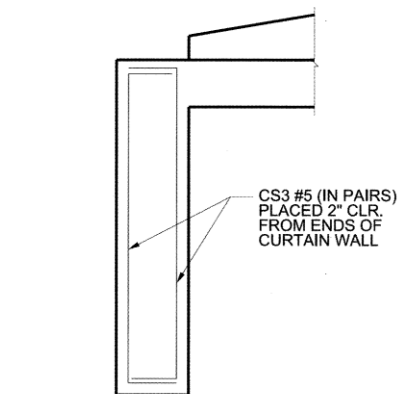


SECTION A-A




DETAIL B

1. CONTRACTOR SHALL DRILL AND EPOXY GROUT A DISTANCE NO GREATER THAN 5 INCHES INTO EXISTING CURTAIN WALL OR AS PER MANUFACTURER'S SPECIFICATIONS. ALL COST FOR DRILL AND EPOXY GROUT SHALL BE INCLUDED IN THE BID PRICE PER LB OF "REINFORCING STEEL".



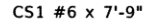
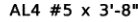
SECTION B-B



REVISION	BY	DATE	PLAN SCALE	DRAWN	ATB	5/25	APPROVED:
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				SURVEY	RDL	5/25	
			PROFILE SCALE	PROJECT MGR			
			HORIZONTAL:	FIELD MGR			
			1"= N/A	LEAD ENGR			
			VERTICAL:	RECOMMENDED			
			1"= N/A	DESIGN MANAGER			
			FILE: 1400361_M26035_B423_Det_01.dgn				
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							CITY ENGINEER
							DATE: MAY 2025
							SHEET 19 OF 22 SHEETS

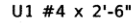
(ONE SHOWN, ONE REQUIRED)

①
①
①
①



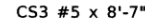
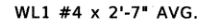
(ONE SHOWN, TWO REQUIRED)

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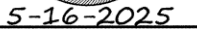
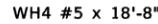


(TWO SHOWN, TWO REQUIRED)

①	
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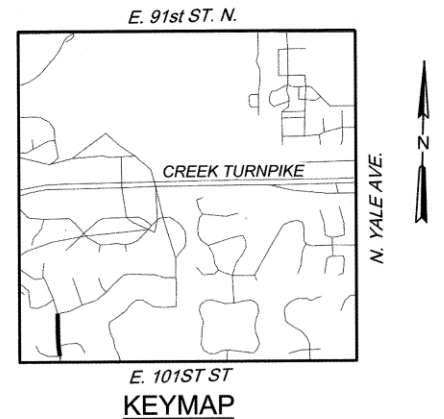
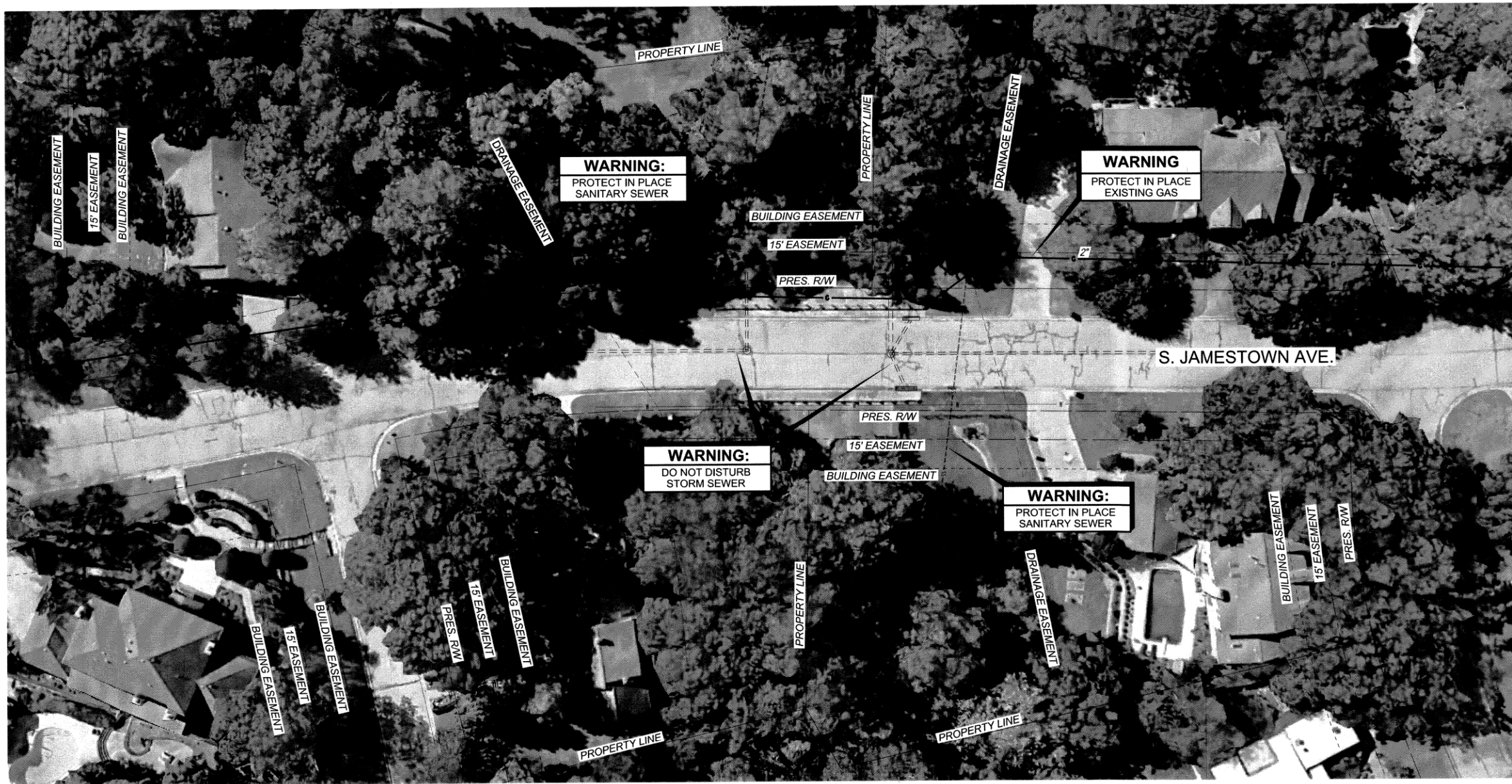
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BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

 **BENHAM** Benham Design, LLC
a Haskell Company

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NOTES:

DO NOT DISTURB
EXISTING UTILITY LINES.

THE LOCATIONS OF THE UTILITIES
ARE SHOWN ACCORDING TO
AVAILABLE ATLAS 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
COX COMMUNICATIONS
OKLAHOMA NATURAL GAS (ONG)
PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP)
CITY OF TULSA UTILITY COORDINATOR
SEE COVER SHEET FOR CONTACT INFORMATION.

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



5-16-2025

BRIDGE 423 CITY UTILITIES

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

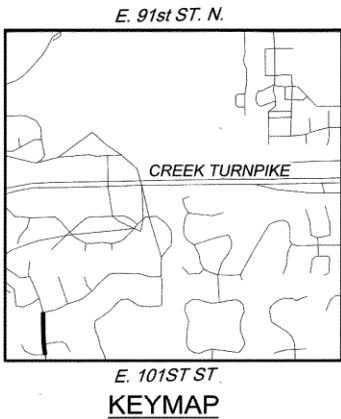
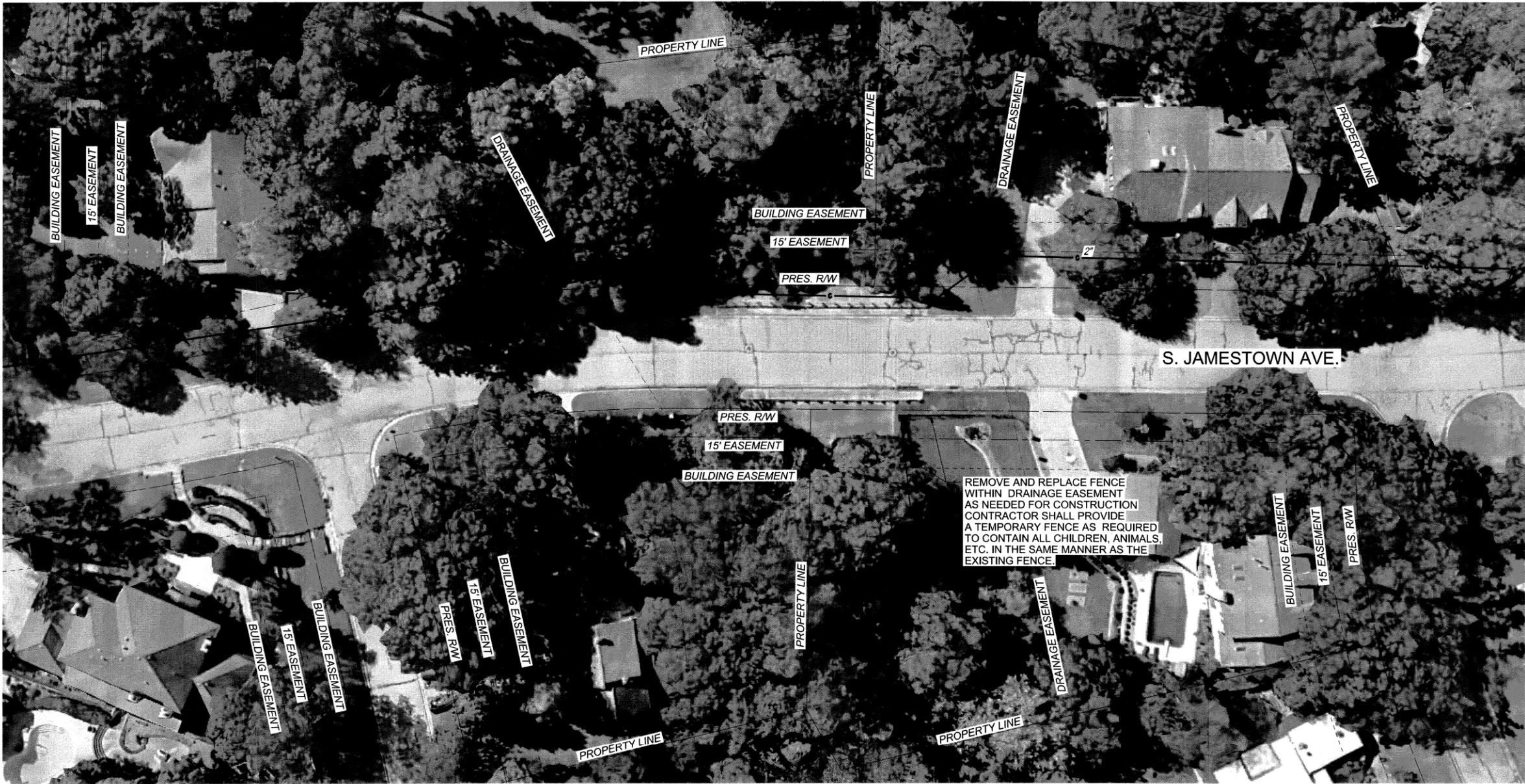
CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT

BENHAM Benham Design, LLC
15 West 6th Street, Suite 900
Tulsa, OK 74119
(918)599-4155

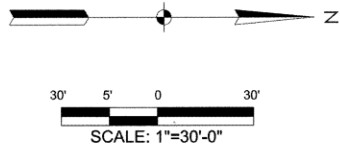
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			1"=10'	PROJECT MGR			
			1"=10'	FIELD MGR		6/25	
			1"=10'	LEAD ENGR		6/25	
			1"=10'	RECOMMENDED			
			1"=10'	DESIGN MANAGER		6.25	
FILE: 1400361_MZ6035_Br423_Utillies.dgn							CITY ENGINEER
ATLAS PAGE NO.: 131, 132, 286, 352, 431, 1276							DATE: MAY 2025
							SHEET 21 OF 22 SHEETS



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NOTE:
RESIDENTIAL ACCESS SHALL REMAIN OPEN DURING ALL PHASES OF THE PROJECT.
ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.



5-16-2025

BRIDGE 423 TRAFFIC CONTROL

BRIDGE REHABILITATION
PROJECT NO. 2037B0201C, 2037B0269Z,
2037B02867, 2037B0423

CITY OF TULSA, OKLAHOMA
PUBLIC WORKS DEPARTMENT



REVISION	BY	DATE	PLAN SCALE	DRAWN	ATB	5/25	APPROVED:
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				SURVEY	RDL	5/25	
			PROFILE SCALE	PROJECT MGR			
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				RECOMMENDED			
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CITY ENGINEER
DATE: MAY 2025

SHEET 22 OF 22 SHEETS