SURVEY CONTROL DATA

THE PROJECT HORIZONTAL DATUM IS BASED ON THE NAD88, OKLAHOMA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, (US SURVEY FEET DEFINITION), WITH NO COMBINED ADJUSTMENT FACTOR (CAF). ALL COORDINATE AND DIMENSIONS SHOWN ON THESE PLANS ARE ON STATE PLANE.

LOCATION NO. 14E1280N3200002

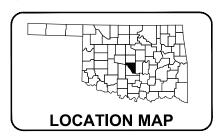
STA. 111+10.00

NBI NO. 33435 BEGIN BRIDGE STA. 112+80.00 BRIDGE LENGTH = 40.00

END BRIDGE STA. 113+20.00

BRIDGE 'A'

2) THE VERTICAL DATUM USED IS NAVD88.



DESIGN DATA

ADT 2025 - 220 ADT 2045 - 327 40 MPH FLEX ESALS. 0.24 M

SCALES

PLAN 1:100 PROFILE HOR. 1:100 VER. 1:10 LAYOUT MAP 1"=2 MILES

CONVENTIONAL SYMBOLS

--- PROPOSED ROADS - SECTION LINES -- QUARTER SECTION LINES —X— FENCES — — EXISTING GRADE
— EXISTING ROADS PROPOSED GRADE ---- OVERHEAD TELEPHONE LINES (EXISTING) - TIIC - COMMUNICATION LINES (EXISTING) - OVERHEAD POWER LINES (EXISTING) — SANITARY SEWER LIŃES (EXISTING) ——OHE—— POWER LINES (PROPOSED)
——PUG—— POWER LINES (PROPOSED) G GAS LINE (PROPOSED)

SS SANITARY SEWER LINES (PROPOSED)

W WATER LINES (PROPOSED) 7//////////////////// BUILDINGS - — - DRAINAGE STRUCTURES (EXISTING) DRAINAGE STRUCTURES (PROPOSED) RIGHT-OF-WAY LINES (EXISTING) RIGHT-OF-WAY LINES (PROPOSÉD)
RIGHT-OF-WAY FENCE ──···── FLOWLINE (EXISTING) --- -- FLOWLINE (PROPOSÉD) TOE OF SLOPE (EXISTING) TOE OF SLOPE/TOP OF CUT (PROPOSED) ANDSCAPE LANDSCAPE RAILROAD

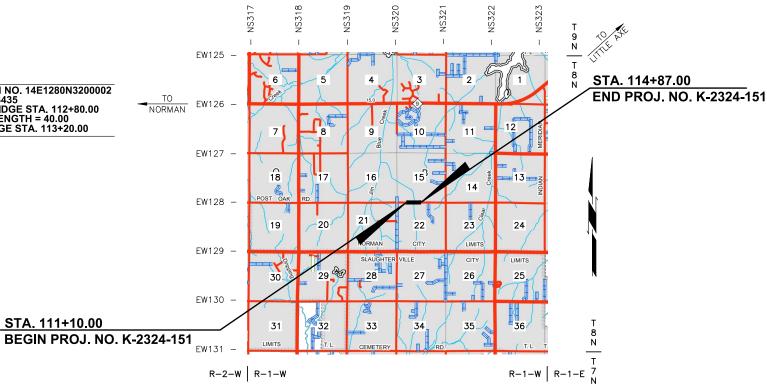
CITY OF NORMAN

PLAN OF PROPOSED

BRIDGE AND APPROACHES PROJECT NO. K-2324-151

EXISTING NBI NO. 26914 NEW NBI NO. 33435

E. POST OAK ROAD OVER TRIB. TO JIM BLUE CREEK



PREPARED FOR: THE CITY OF NORMAN



INDEX OF SHEETS

| SHEET NO. | DESCRIPTION |
|--------------|----------------------------------------------|
| 0001 | TITLE SHEET |
| 0002 | TYPICAL SECTION |
| AB01 | SUMMARY OF PAY QUANTITIES AND NOTES (BRIDGE) |
| AE01 | ENVIRONMENTAL NOTES |
| AR01 | SUMMARY OF PAY QUANTITES AND NOTES (ROADWAY) |
| AR02 | SUMMARY SHEETS (ROADWAY) |
| ATO1 | SUMMARY OF PAY QUANTITES AND NOTES (TRAFFIC) |
| B001 | GENERAL PLAN AND ELEVATION |
| B002 | BRIDGE PAY QUANTITIES SUMMARY |
| B003-B004 | FOUNDATION REPORTS |
| B005-B006 | BARREL DETAILS |
| B007-B008 | END SECTION DETAILS |
| B009 | APPROACH SLAB DETAILS |
| B010 | EXCAVATION DETAILS |
| R001 | STORM WATER MANAGEMENT PLAN |
| R002 | GEOMETRIC DATA |
| R003 | EROSION CONTROL PLAN |
| R004 | PLAN AND PROFILE SHEET |
| S001-S006 | SURVEY DATA SHEETS |
| T001 | DETOUR PLAN |
| T002 | COUNTY ROAD CLOSURE DETAIL |
| U001-U002 | FLEXAMAT STANDARD DETAIL |
| X001-X004 | CROSS SECTION SHEETS |
| | |
| | |

DESCRIPTION

DATE

THE FOLLOWING ODOT STANDARDS ARE REQUIRED FOR THIS PROJECT:

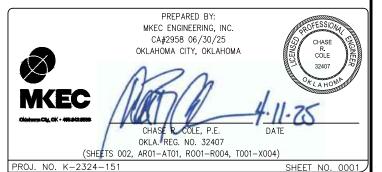
| 2019 ROADWAY | 2009 BRIDGE | 2009 TRAFFIC |
|----------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------|
| BMPR-0 TESCA-0 RSF-0 TSD-0 SSS-2-1 PSE-2-1 SBI-5-2 | TR4-2-00E LECS-5-2 SBI-5-2 | TCS1-1-01 TCS9-1-01 TCS10-1-00 TCS14-1-00 THR1-1-02 SKT-1-00 |



PREPARED BY: MKEC ENGINEERING, INC. CA#2958 06/30/25 OKLAHOMA CITY, OKLAHOMA



(SHEETS AB01, B001-B010)

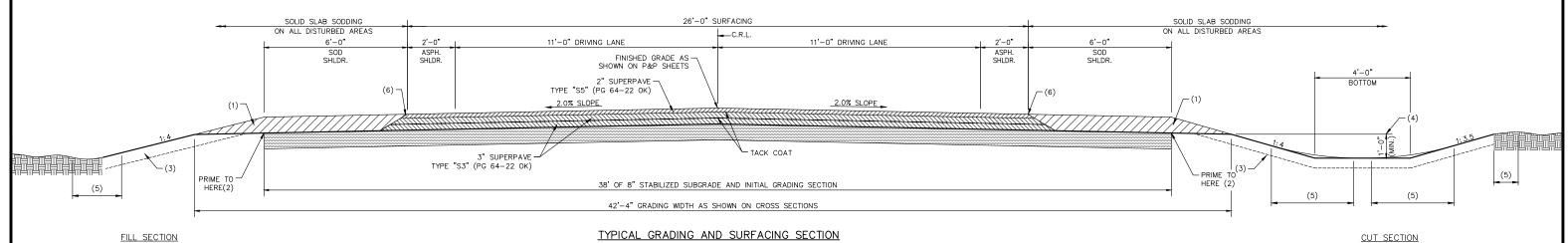


ROADWAY LENGTH_____ 337.00 FT___ 0.063 MI BRIDGE LENGTH_____ 40.00 FT___ 0.007 MI TOTAL PROJECT LENGTH______377.00 FT___ 0.071 MI EXCEPTIONS____NONE

2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION—ENGLISH GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. DECEMBER 18TH, 2019.

EQUATIONS_____NONE

DESCRIPTION DATE



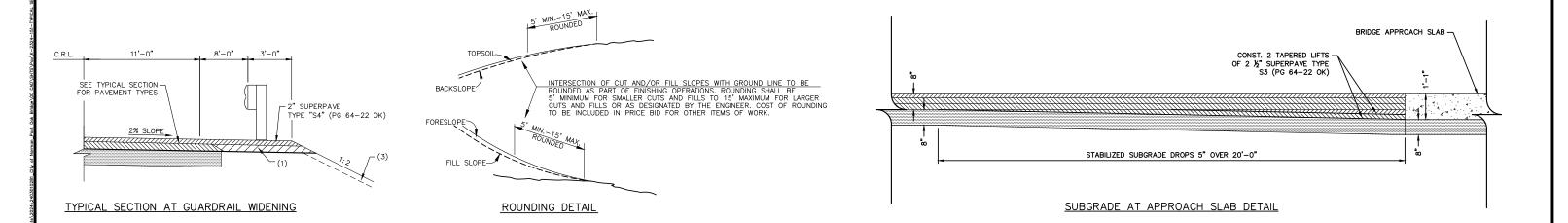
TYPICAL GRADING AND SURFACING SECTION

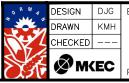
STATION 111+10.00 TO STATION 112+60.00 STATION 113+40.00 TO STATION 114+87.00

| PAVEMENT REQUIREMENTS -TYPICAL SECTION | | | | | | | | | | |
|----------------------------------------|------------------------------------|------------------------------------|------------------------|--|--|--|--|--|--|--|
| PAVEMENT STRUCTURE | DRIVING LANES | PAVED SHOULDER | SOD SHOULDER | | | | | | | |
| SURFACE | 2" SUPERPAVE TYPE S5 (PG 64-22 OK) | 2" SUPERPAVE TYPE S5 (PG 64-22 OK) | | | | | | | | |
| | 3" SUPERPAVE TYPE S3 (PG 64-22 OK) | 3" SUPERPAVE TYPE S3 (PG 64-22 OK) | SOD | | | | | | | |
| BASE | 3" SUPERPAVE TYPE S3 (PG 64-22 OK) | 3" SUPERPAVE TYPE S3 (PG 64-22 OK) | | | | | | | | |
| | 8" STABILIZED SUBGRADE | 8" STABILIZED SUBGRADE | 8" STABILIZED SUBGRADE | | | | | | | |

NOTES:

- (1) SHOULDERS TO BE SHAPED OR FILLED AND COMPACTED AS PART OF FINISHING OPERATIONS. COST TO BE INCLUDED IN PRICE BID FOR UNCLASSIFIED BORROW.
- (2) PRIME COAT IS TO BE APPLIED IMMEDIATELY AFTER SUBGRADE MODIFICATION.
- (3) TOPSOIL NOTE:
 THE CONTRACTOR SHOULD STRIP ALL AVAILABLE TOPSOIL, STOCK PILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATION. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGE TOPSOIL, LUMP SUM.
- THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL. QUANTITY IS INCLUDED IN THE GRADING SUMMARY.
- (4) VARIES AT SPECIAL DITCH LOCATIONS.
- (5) SEE ROUNDING DETAIL, THIS SHEET
- (6) SAFETY EDGE NOTE: CONSTRUCT ASPHALT SAFETY EDGE AS SHOWN IN SPECIAL PROVISION 411-14





DJG E. POST OAK ROAD

CLEVELAND COUNTY

TYPICAL SECTION

PROJECT NO. K-2324-151 SHEET NO. 0002

GENERAL NOTES

SPECIFICATIONS —
COMPLY WITH THE REQUIREMENTS OF THE 2019 OKLAHOMA STANDARD SPECIFICATIONS
FOR HIGHWAY CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL

CONCRETE -

ALL EXPOSED CONCRETE EDGES SHALL HAVE A 1½" CHAMFER UNLESS
OTHERWISE SHOWN OR NOTED. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER.

ALL REINFORCING STEEL 2" MINIMUM CLEAR COVER UNLESS OTHERWISE SHOWN.

PAY ITEM NOTES

- B1 PAYMENT TO THE CONTRACTOR WILL BE BASED ON PLAN QUANTITIES
- THE APPROACH SLABS CONTAIN AN ESTIMATED TOTAL OF 65.70 C.Y. OF CLASS AA CONCRETE AND 12,550.00 LB. OF REINFORCING STEEL. INCLUDE ALL COSTS FOR CONSTRUCTING THE APPROACH SLABS, INCLUDING CONCRETE, REINFORCING STEEL (INCLUDING SLAB TO BRIDGE RAILING BARS), BACKER ROD, RAPID CURE JOINT SEALANT, POLYSTYRENE, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, IN THE CONTRACT UNIT PRICE OF "APPROACH SLAB".
- B3 ITEM "REMOVAL OF EXISTING BRIDGE STRUCTURE" INCLUDES REMOVAL AND DISPOSAL OF SUPERSTRUCTURE AND SUBSTRUCTURE OF 32' LONG STEEL BEAM BRIDGE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SUBSECTION 619.04B(2) OF THE SPECIFICATIONS AND IN A MANNER APPROVED BY THE ENGINEER. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. INCLUDE ALL COSTS FOR LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK IN THE CONTRACT UNIT PRICE OF "REMOVAL OF EXISTING STRUCTURE".

MKEC // TRANSPORTATION

B3 LSUM

| 0200 BRIDGE | | DAY OHANTITIES | | | | | | | | |
|-------------------------------|-------------------------------------------------------------------------------------------|------------------------------------|-------|------|-----------|--|--|--|--|--|
| NBI NO. 33435 PAY QUANTITIES | | | | | | | | | | |
| | 3 - 12'x7'x40'-2" AT GRADE RCB O' SKEW W/ TR4 CONCRETE TRAFFIC RAILS, Q STA. 113+00.00 | | | | | | | | | |
| ITEM NO. | | ITEM | | UNIT | TOTAL | | | | | |
| 202 (A) | 2210 | UNCLASSIFIED EXCAVATION | B1 | C.Y. | 1,010.00 | | | | | |
| 501 (A) | 1210 | STRUCTURAL EXCAVATION UNCLASSIFIED | B1 | C.Y. | 305.00 | | | | | |
| 504 (A) | 5200 | APPROACH SLAB | B1,B2 | S.Y. | 178.60 | | | | | |
| 504 (B) | 5300 | SAW-CUT GROOVING | B1 | S.Y. | 286.80 | | | | | |
| 504 (D) | 5420 | CONCRETE RAIL (TR4) | B1 | L.F. | 160.00 | | | | | |
| 509 (A) | 0210 | CLASS AA CONCRETE | B1 | C.Y. | 282.40 | | | | | |
| 511 (A) | 2210 | BEINEOBOING STEEL | D1 | I D | 50 380 00 | | | | | |

619 (D) 6700 REMOVAL OF EXISTING BRIDGE STRUCTURE

DRAWN P.W.D. CHECKED J.T.H.

DESIGN J.T.H. E. POST OAK RD. OVER TRIB. CITY OF NORMAN TO JIM BLUE CRK.

SUMMARY OF PAY QUANTITIES AND NOTES (BRIDGE)

MKEC PROJECT NO. K-2324-151 SHEET NO. ABO1

ENVIRONMENTAL NOTES:

THE CONTRACTOR MUST ENSURE THAT ANY MATERIAL INCORPORATED INTO THE PROJECT IS FREE OF ANY HAZARDOUS, INDUSTRIAL OR CONTAMINATED WASTE.

IMPORTED MATERIAL (E.G., BORROW) — IF MATERIAL IS IMPORTED TO THE PROJECT AND AT ANY POINT THE MATERIAL IS DETERMINED BY THE ENGINEER TO INCLUDE ANY TYPE OF UNACCEPTABLE CONTAMINATION, THE MATERIAL MAY REQUIRE REMOVAL, IN WHOLE, OR IN PART. IF REMOVAL IS REQUIRED, THEN THE INITIAL PLACEMENT, REMOVAL AND PROPER DISPOSAL OF THIS MATERIAL SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE DISPOSAL OF THE UNACCEPTABLE MATERIAL SHALL BE

NON-COMPLIANCE NOTE:

FAILURE TO IMPLEMENT THE COMMITMENTS SPECIFIED IN THE PLAN NOTES CAN RESULT IN NON-COMPLIANCE ISSUES ON THE PROJECT. WORK ACTIVITIES MAY BE SUSPENDED ON THE PROJECT, FOR AN UNDETERMINED DURATION, WHILE WORKING WITH REGULATORS TO BRING THE PROJECT BACK INTO COMPLIANCE. THE CONTRACTOR WILL NOT BE COMPENSATED FOR TIME LOST.

WATER QUALITY CONSERVATION NOTE:

WATER QUALITY CONSERVATION NOTE:

APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE IMPACTS FROM STORM WATER DISCHARGES AND SEDIMENTATION IN STREAMS, AS ESTABLISHED BY THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY, SHALL BE CONSCIENTIOUSLY IMPLEMENTED THROUGHOUT THE PROPOSED CONSTRUCTION PERIODS, IN ORDER TO MINIMIZE ANY POTENTIAL IMPACTS TO ANY LISTED SPECIES. THE EFFECTIVENESS OF EROSION CONTROLS SHALL BE MAINTAINED FOR THE DURATION OF CONSTRUCTION ACTIVITIES. HAZARDOUS MATERIALS, CHEMICALS, FUELS, LUBRICATING OILS, AND OTHER SUCH SUBSTANCES SHALL BE STORED AT LEAST 100 FEET FROM THE ORDINARY HIGH WATER MARK (OHWM). REFUELING OF CONSTRUCTION CONTROLS SHALL ALSO BE CONDUCTED AT LEAST 100 FEET FROM THE OHWMS. SEDIMENT AND EROSION CONTROLS SHALL BE INSTALLED AROUND STAGING AREAS TO PROHIBIT DISCHARGE OF MATERIALS FROM THESE SITES. CONSTRUCTION WASTE MATERIALS AND DEBRIS SHALL BE STOCKPILED AT LEAST 25 FEET OUTSIDE OF THE OHWMS, AND THESE MATERIALS SHALL BE REMOVED AND DISPOSED OF PROPERLY FOLLOWING COMPLETION OF THE PROJECT. PREVENTATIVE MEASURES MUST BE TAKEN TO PROHIBIT THE DISCHARGE OF CONTAMINANTS INTO ANY SURFACE WATERS.

OKR10 CONSTRUCTION STORM WATER NOTE:

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY OKR10 CONSTRUCTION STORM WATER PERMIT AUTHORIZATION.

A STORM WATER POLLUTION PREVENTION PLAN (SWP3) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEO), 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 SWP3 (I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC.) THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS THE POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION. STORM WATER POLLUTION.

MIGRATORY BIRD PLAN NOTE:

MIGRATORY BIRD PLAN NOTE:

MIGRATORY BIRDS ARE PROTECTED BY THE FEDERAL MIGRATORY BIRD TREATY ACT. MANY BIRDS COMMONLY
USE BRIDGES AND CULVERTS FOR NESTING. THE NESTING SEASON FOR MOST MIGRATORY BIRD SPECIES
EXTENDS FROM MARCH 1 TO AUGUST 31. MIGRATORY BIRD NESTING USE OF THE BRIDGES AND
STRUCTURES INVOLVED WITH THIS PROJECT IS POSSIBLE. DEMOLITION OF THE EXISTING
BRIDGE/STRUCTURES SHALL BE CONDUCTED BETWEEN SEPTEMBER 1, AND FEBRUARY 28, WHEN
MIGRATORY BIRD NESTS ARE NOT OCCUPIED. IF DEMOLITION CANNOT BE COMPLETED BETWEEN
SEPTEMBER 1 AND FEBRUARY 28, THE BRIDGE SHALL BE PROTECTED FROM NEW NEST ESTABLISHMENT
PRIOR TO MARCH 1, BY MEANS THAT DO NOT RESULT IN BIRD DEATH OR INJURY. OPTIONS INCLUDE THE
EXCLUSION OF ADULT BIRDS FROM SUITABLE NEST SITES ON OR WITHIN A STRUCTURE BY THE PLACEMENT
OF WEATHER—RESISTANT POLYPROPYLENE NETTING WITH 0.25—INCH OR SMALLER OPENINGS, PRIOR TO
MARCH 1. ALTERNATIVELY, A TRAINED BIOLOGIST/ENVIRONMENTAL PROFESSIONAL CAN PERFORM A SITE OR OF WEATHER-RESISTANT POLYPROPYLENE NETTING WITH 0.25-INCH OR SMALLER OPENINGS, PRIOR TO MARCH 1. ALTERNATIVELY, A TRAINED BIOLOGIST/ENVIRONMENTAL PROFESSIONAL CAN PERFORM A SITE OR STRUCTURE-SPECIFIC REVIEW IMMEDIATELY BEFORE THE CONSTRUCTION BEGINS TO CONFIRM THE ABSENCE OF SWALLOWS. EACH STRUCTURE SHOULD BE ASSESSED FOR THE PRESENCE OF ADULTS AND ACTIVE NESTS. CARE SHOULD BE TAKEN TO AVOID ANY IMPACT TO NESTS, EGGS, OR YOUNG. IF THERE ARE NO ADULTS AND NO ACTIVE NESTS, THEN CONSTRUCTION ACTIVITY COULD PROCEED—THERE WOULD NOT BE ANY IMPACT TO SWALLOWS AND CONSEQUENTLY, NO VIOLATION OF THE MIGRATORY BIRD ACT. SUFFICIENT DOCUMENTATION SHOULD BE MAINTAINED TO SUPPORT ANY DECISION TO CONSTRUCT BETWEEN MARCH 1

BIRDS OF CONSERVATION CONCERN (BCC) PLAN NOTE:

BIRDS OF CONSERVATION CONCERN (BCC) PLAN NOIE:

BIRDS OF CONSERVATION CONCERN (BCC) REFER TO MIGRATORY, NONGAME BIRDS THAT, WITHOUT ADDITIONAL CONSERVATION ACTIONS, ARE LIKELY TO BECOME CANDIDATES FOR LISTING UNDER THE ENDANGERED SPECIES ACT. THE BCC LIST IS A PROACTIVE CONSERVATION MANDATE PRODUCED BY THE USFWS WHICH MUST BE CONSIDERED BY ALL FEDERAL AGENCIES. IN ORDER TO AVOID IMPACTS TO BOTH TREE NESTING AND GROUND NESTING SPECIES, THE GRUBBING AND REMOVAL OF TREES AND SHRUBS WILL BE RESTRICTED TO WITHIN THE ACTUAL LIMITS OF CONSTRUCTION. ANY IMPLEMENTED SEASONAL RESTRICTIONS FOR PROTECTION OF MIGRATORY BIRD NESTING ON THE BRIDGE STRUCTURE WILL PROVIDE ADDITIONAL PROTECTION FOR LISTED BCC. ADDITIONAL PROTECTION FOR LISTED BCC.

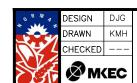
CULTURAL RESOURCE NOTE:

CULTURAL RESOURCE NOTE:

NO HISTORIC OR PREHISTORIC RESOURCES WERE IDENTIFIED WITHIN THE CONSTRUCTION AREA. IF
PREVIOUSLY UNIDENTIFIED CULTURAL RESOURCES ARE ENCOUNTERED DURING CONSTRUCTION, WORK SHALL
STOP AND THE US ARMY CORPS OF ENGINEERS (USACE) AREA ARCHAEOLOGIST WILL BE NOTIFIED TO
ENSURE PROPER PROTOCOLS ARE FOLLOWED INCLUDING TRIBAL COORDINATION AND COORDINATION WITH
THE OKLAHOMA ARCHAEOLOGICAL SURVEY (OAS), AND THE OKLAHOMA STATE HISTORIC PRESERVATION
OFFICE (SHPO). THE WORK STOPPAGE WILL ALLOW THE ENGINEER TO ENSURE PROPER PROTOCOLS ARE
FOLLOWED INCLUDING TRIBAL COORDINATION, AND OAS AND SHPO TO DETERMINE AN APPROPRIATE COURSE
OF ACTION TO HANDLE AN INADVERTENT DISCOVERY. IN ADDITION, THE NATIVE AMERICAN GRAVES
PROTECTION AND REPATRIATION ACT (NAGPRA) (25 U.S.C. 3001 ET SEQ.) WILL BE FOLLOWED WHEN
APPLICABLE. APPLICABLE.

HUMAN REMAINS NOTE:

HUMAN REMAINS NOTE:
IF HUMAN REMAINS ARE ENCOUNTERED AS PART OF CONSTRUCTION OR OTHER GROUND DISTURBING ACTIVITIES ASSOCIATED WITH THIS PROJECT, WORK SHALL STOP IMMEDIATELY IN ACCORDANCE WITH THE OKLAHOMA BURIAL ACT (OSS TITLE 21, CHAPTER 47, SECTION 1168). IN ADDITION, THE NATIVE AMERICAN GRAVES PROTECTION AND REPATRIATION ACT (NAGPRA) (25 U.S.C. 3001 ET SEQ.) WILL BE FOLLOWED WHEN APPLICABLE. THE SHERIFF AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY.



E. POST OAK ROAD

CLEVELAND COUNTY

ENVIRONMENTAL NOTES

PROJECT NO. K-2324-151 SHEET NO. AE01

SPECIFICATIONS:

WITH THE REQUIREMENTS OF THE 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS.

GENERAL CONSTRUCTION NOTES:

IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. CALL OKIE 1-800-522-6543 OR 811.

FOR PROJECTS THAT INCLUDE WIDENING AND/OR RESURFACING, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROPOFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE OPERATIONS BEGIN. ANY PORTION OF THE CONSTRUCTION OPERATIONS, SUCH AS SUPERPAVE LAYING OPERATIONS, EXCAVATION FOR PAVEMENT WIDENING, OR EXTENSION OF ROADWAY STRUCTURES, SHALL BE LIMITED TO ONE SIDE AT A TIME, AND THE PROCEDURES OUTLINED IN THE PAVEMENT DROP-OFF TREATMENT STANDARD PDT-1 (LATEST REVISION) SHALL BE IMPLEMENTED. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN 1 (ONE) DAY'S TIME WITHOUT APPROVAL BY THE ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES.

ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER SHALL BE CLEANED OUT TO THE RIGHT-OF-WAY LINE, AT EACH STRUCTURE AND BRIDGE, IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS AND BEFORE PAVEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

PRIME COAT SHALL BE APPLIED TO THE SUBGRADE IMMEDIATELY AFTER FINAL COMPACTION AND SHAPING TO RETAIN MOISTURE FOR PROPER CHEMICAL REACTION OF THE SOIL ADDITIVE.

THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "MULCHING-TILLER METHOD", AS SPECIFIED IN 233.04B(2) OF THE STANDARD SPECIFICATIONS

AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 18-46-0 FERTILIZER APPLIED, AT THE RATE OF 150 POUNDS PER ACRE, JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL

AT THE BEGINNING OF TURFING OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OF PERENNIAL GRASS, AS DETERMINED BY THE ENGINEER, SHALL BE FERTILIZED AND WATERED AS CALLED FOR ON THE PLANS, BUT SHALL NOT BE SEEDED, SODDED, OR SPRIGGED.

EXCESS ASPHALT AT JOINTS AND CRACKS IN EXISTING PAVEMENT SHALL BE REMOVED FLUSH TO TOP OF PAVING IN A MANNER APPROVED BY THE ENGINEER.

THE BRIDGE SITE WILL BE CLOSED TO ALL PUBLIC TRAFFIC DURING CONSTRUCTION. CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL TRAFFIC DURING CONSTRUCTION.

ANY DAMAGE CAUSED BY THE CONTRACTOR TO ANY STRUCTURES, ROADWAY SURFACES, STRIPING, RAISED PAVEMENT MARKERS, GUARDRAIL, SLOPES, AND SIGNS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE RESIDENT ENGINEER.

THE CITY OF NORMAN WILL BE RESPONSIBLE FOR:

• RELOCATION OF LITHITIES

CONTRACTOR SHALL GIVE NOTICE TO CITY OF NORMAN IN WRITING 14 DAYS BEFORE WORK BEGINS ON THE

ROADWAY PAY QUANTITY NOTES:

- PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.
- (R-4) AN ESTIMATED QUANTITY OF 123 C.Y. TOPSOIL TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 5" ON COMPLETED FORESLOPES, DITCHES, AND BACKSLOPES. THIS QUANTITY IS INCLUDED IN THE EARTHWORK BALANCE. ANY ADDITIONAL EXCAVATION REQUIRED IN CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE, SHALL BE INCLUDED IN THE PRICE BID.
- (R-6) FOR SOLID SLAB SODDING PRICE BID TO INCLUDE COST OF 10-20-10 FERTILIZER, ESTIMATED AT 200 POUNDS PER 1000 SY
- (R-7) FOR SOLID SLAB SODDING PRICE BID TO INCLUDE COST OF WATERING, ESTIMATED AT 40 GALLONS PER S.Y.
- (R-8) PRICE BID TO INCLUDE COST OF ALL NECESSARY MAINTENANCE, MAINTAINING DEVICE IN PROPER UPRIGHT POSITION, REMOVAL OF DEVICE, AND REMOVAL OF SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE DEVICE.
- (R-11) THE QUANTITIES ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS 0.18 ACRES.
- (R-15) QUANTITY BASED ON TWO APPLICATIONS
- (R-19) PRICE BID TO INCLUDE THE CHEMICAL ADDITIVE(S) TO ACHIEVE THE RATE SPECIFIED FOR THE APPROPRIATE SOIL CLASSIFICATION AS SPECIFIED IN THE MOST CURRENT ODOT MATERIALS DIVISION OHD L-50. IT IS THE RESPONSIBILITY THE CONTRACTOR TO CLASSIFY THE SOIL AND DETERMINE THE APPROPRIATE ADDITIVE(S).
- (R-23) PRIME COAT SHALL BE APPLIED AT AN ESTIMATED RATE OF 0.35 GAL. PER SQ. YD. WHEN APPLIED TO SUBGRADE, AND 0.25 GAL. PER SQ. YD. WHEN APPLIED TO AGGREGATE BASE. THE ACTUAL CUTBACK PRIME COAT REQUIRED FOR PLACEMENT OPERATIONS WILL BE DETERMINED BY THE CONTRACTOR, AND SHALL CONSIDER THE RESIDUE FROM DISTILLATION PERCENTAGE SHOWN IN SECTION 708.03 OF THE STANDARD SPECIFICATIONS.
- (R-25) ESTIMATED AT 0.075 GALLONS PER SQUARE YARD OF ORIGINAL EMULSION OF TACK COAT (BEFORE DILUTION FOR APPLICATION) IN ACCORDANCE WITH SECTION 407 OF THE STANDARD SPECIFICATIONS.
- (R-26) ESTIMATED AT 112 LBS. PER SQ. YD. PER 1" THICK.
- (R-33) QUANTITY INCLUDES AN ESTIMATED 5 C.Y. TO BE USED AS DIRECTED BY THE ENGINEER.
- (R-39) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.
- (R-40) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE
- (R-41) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SECTION 202.06 UNCLASSIFIED EXCAVATION.
- (1) SEE SUMMARY OF EARTHWORK (SHEET NO. ARO2)
- (2) ESTIMATED QUANTITY ONLY TO BE USED FOR EROSION AND SEDIMENT CONTROL IN A MANNER APPROVED BY THE ENGINEER. (SEE STDS. RSF-0 AND TSD-0)
- (3) IN ADDITION TO THE RESPONSIBILITIES SHOWN IN THE SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND/OR RE-ESTABLISHING THE SURVEY CONTROL POINTS SHOWN ON THE PLANS, STAKING THE CENTERLINE OF CONSTRUCTION AND RE-ESTABLISHING RIGHT-OF-WAY STAKES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING BENCH MARKS SHOWN ON THE PLANS AND FOR ESTABLISHING NEW BENCH MARKS AS NEEDED TO CONSTRUCT THE PROJECT. THE CONTRACTOR SHALL PLACE STAKES AND HUBS EVERY 100' AND AT
- (4) INCLUDES 31 C.Y. OF EXCAVATION FOR DRAINAGE GRADING AT STA. 114+65.00 LT. ESTIMATED QUANTITY BASED ON 4' DITCH BOTTOM WITH 3.5:1 BACKSLOPE.
- (5) PRICE BID TO INCLUDE COST OF PORTLAND CEMENT, FLEXAMAT UNDERLAYMENT MATERIALS, AND #3 REBAR U-ANCHORS (18") NECESSARY TO INSTALL ARTICULATING CONCRETE BLOCK (FLEXAMAT) AS SHOWN ON SHEET U001-U002 ANY EXCAVATION FOR ANCHOR TRENCHES SHALL ALSO BE INCLUDED IN THE PRICE BID. FLEXAMAT SHALL BE INSTALLED IN ACCORDANCE WITH THE PRODUCT TECHNICAL SPECIFICATIONS AND DETAILS DRAWINGS.
- (6) DEBRIS FROM BRIDGE REMOVAL TO BE REMOVED FROM CHANNEL AT THE END OF EACH DAY.
- (7) QUANTITY IS FOR BEDDING AND BACKFILL AT BRIDGE 'A'. SEE SHEET NO. B010 FOR MORE DETAIL.
- (8) FLARED GUARDRAIL END TREATMENT TO BE INSTALLED AS DIRECTED BY THE FIELD ENGINEER, EACH LEG.
- (9) QUANTITY INCLUDES 25 TONS OF SUPERPAVE TYPE S3 (PG 64-22 OK) TO BE USED AT THE TRANSITION FROM THE ASPHALT TO THE APPROACH SLAB EACH SIDE OF BRIDGE 'A'. SEE SHEET NO. 0002, SUBGRADE AT APPROACH SLAB DETAIL FOR MORE INFORMATION.

| PAY QUANTITIES 0100 ROADWAY | | | | | | | | | |
|-----------------------------|------|--------------------------------------|-----------------|-------|--|--|--|--|--|
| ITE | M | DESCRIPTION | | UNIT | | | | | |
| 201(A) | 1200 | CLEARING AND GRUBBING | | L.SUM | | | | | |
| 202(A) | 2200 | UNCLASSIFIED EXCAVATION | (1)(4)(R-1) | C.Y. | | | | | |
| 202(D) | 2500 | UNCLASSIFIED BORROW | (1) | C.Y. | | | | | |
| 205(A) | 6200 | TYPE A-SALVAGED TOPSOIL | (R-4) | L.SUM | | | | | |
| 221(B) | 2300 | TEMPORARY SILT FENCE | (2)(R-8) | L.F. | | | | | |
| 221(E) | 2600 | TEMPORARY SILT DIKE | (2)(R-8) | L.F. | | | | | |
| 230(A) | 7200 | SOLID SLAB SODDING | (R-6)(R-7) | S.Y. | | | | | |
| 233(A) | 0200 | VEGETATIVE MULCHING | (R-11) | AC. | | | | | |
| 241 | 3100 | MOWING | (R-15) | AC. | | | | | |
| 303(A) | 1200 | AGGREGATE BASE TYPE A | (7) | C.Y. | | | | | |
| 307(K) | 4200 | STABILIZED SUBGRADE | (R-19) | S.Y. | | | | | |
| 407(B) | 7300 | TACK COAT | (R-25) | GAL. | | | | | |
| 408 | 8100 | PRIME COAT | (R-23) | GAL. | | | | | |
| 411(B) | 1330 | SUPERPAVE, TYPE S3 (PG 64-22 OK) | (R-26) | TON | | | | | |
| 411(D) | 1530 | SUPERPAVE, TYPE S5 (PG 64-22 OK) | (R-26) | TON | | | | | |
| 509(D) | 0500 | CLASS C CONCRETE | (R-33) | C.Y. | | | | | |
| 602(B) | 2300 | ARTICULATING CONCRETE BLOCK | (5) | S.F. | | | | | |
| 619(A) | 6200 | REMOVAL OF STRUCTURES & OBSTRUCTIONS | (6)(R-39)(R-40) | L.SUM | | | | | |
| 619(B) | 6364 | REMOVAL OF ASPHALT PAVEMENT | (R-40)(R-41) | S.Y. | | | | | |
| | | | | | | | | | |

6396 REMOVAL OF GUARDRAIL

1200 BEAM GUARDRAIL W-BEAM SINGLE

1820 GUARDRAIL END TREATMENT (31")

6600 SAWING PAVEMENT

19(C)

623(A)

| 623(I) | 2050 | GUARDRAIL BRIDGE CONN-THRIE BEAM (31") | EA. | 4.00 |
|----------|------|----------------------------------------|-------|----------|
| K-2324-1 | | PAY QUANTITIES | | |
| 0600 STA | | DESCRIPTION | UNIT | QUANTITY |
| 642(B) | 3300 | CONSTRUCTION STAKING LEVEL II (3) | L.SUM | 1.00 |
| K-2324-1 | 51 | | | |

PAY QUANTITIES 0640 CONSTRUCTION

| | ITEM DESCRIPTION | | UNIT | QUANTITY |
|----|------------------|------------------------------------|-------|----------|
| 20 | 1100 | SWPPP DOCUMENTATION AND MANAGEMENT | L.SUM | 1.00 |
| 41 | 2100 | MOBILIZATION | L.SUM | 1.00 |



UNIT

(R-40)

L.F.

L.F.

(8) EA.

QUANTITY

82.00

270.00

574.00

21.00

882.00

0.18

0.36

300.00

1,255.00

135.00

440.00

330.00

147.00

483.00

938.00

144.00

48.00

50.00

4.00

5.00

1.00

1.00

. POST OAK ROAD

| | SCHEDULE OF EARTHWORK | | | | | | | | | | |
|-----------|------------------------|----------------------------------------------------|--------|----------------------------------|--|--|--|--|--|--|--|
| SHEET NO. | STATION TO STATION | STATION TO STATION UNCLASSIFED EXCAVATION 202(A) | | UNCLASSIFIED BORROW 202(D) | | | | | | | |
| 0, | | C.Y. | C.Y. | C.Y. | | | | | | | |
| R004 | 111+10.00 TO 114+87.00 | 51.00 | 352.00 | 301.00 | | | | | | | |
| R004 | DRAINAGE GRADING | 31.00 | - | (31.00) | | | | | | | |
| | TOTAL | 82.00 | 352.00 | 270.00 | | | | | | | |

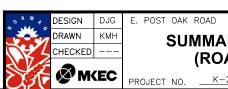
| | SUMMARY OF SURFACING | | | | | | | | | |
|-----------|-------------------------------------------|------------------------------|--------------|---------------|----------------------------------------|----------------------------------------|--|--|--|--|
| SHEET NO. | STATION TO STATION | 8" STABILIZED SUBGRADE | TACK COAT | PRIME COAT | SUPERPAVE, TYPE S3 (PG 64-22 OK) | SUPERPAVE, TYPE S5 (PG 64-22 OK) | | | | |
| 1 % | | 307(K) | 407(B) | 408 | 411(B) | 411(D) | | | | |
| 0, | | S.Y. | GAL. | GAL. | TON | TON | | | | |
| R004 | 111+10.00 TO 112+60.00 | 634.00 | 68.00 | 222.00 | 154.00 | 50.00 | | | | |
| R004 | 113+40.00 TO 114+87.00 | 621.00 | 67.00 | 218.00 | 151.00 | 49.00 | | | | |
| | TOTAL 1,255.00 135.00 440.00 305.00 99.00 | | | | | | | | | |

| | SUMMARY OF REMOVALS | | | | | | | | | |
|-----------|------------------------|--|-------------------------|---------------------------|--------------------|-------|--|--|--|--|
| SHEET NO. | STATION TO STATION | | REMOVAL OF GUARDRAIL | REMOVAL OF ASPH. PVMT. | SAWING PAVEMENT | | | | | |
| 1 E | | | 619(B) | 619(B) | 619(C) | | | | | |
| | | | | L.F. | S.Y. | L.F. | | | | |
| R004 | 111+10.00 TO 114+87.00 | | 114+87.00 | 144.00 | 938.00 | 48.00 | | | | |
| | | | TOTAL | 144.00 | 938.00 | 48.00 | | | | |

| | SUMMARY OF GUARDRAIL & WIDENING | | | | | | | | |
|-------|---------------------------------|-----------|-------------------------|-----|-----------|----------------|---------------------|----------------------------------|--|
| | STATION TO STATION | | STATION TO STATION LANE | | SUPERPAVE | BEAM GUARDRAIL | GUARDRAIL | CONNECTIONS | |
| | | | | | TYPE S5 | | THRIE BEAM (31") | GUARDRAIL END TREATMENT (31") | |
| 분 | | | | | 411(D) | 623(A) | 623(I) | 623(G) | |
| | | | LT. | RT. | TON | L.F. | EA. | EA. | |
| R004 | 111+50.75 TO | 112+80.00 | Х | Χ | 24.00 | 25.00 | 2.00 | 2.00 | |
| R004 | 113+20.00 TO | 114+49.25 | Х | Х | 24.00 | 25.00 | 2.00 | 2.00 | |
| TOTAL | | | | | 48.00 | 50.00 | 4.00 | 4.00 | |

| SUMMARY OF DITCH TREATMENT | | | | | | | | | | |
|----------------------------|------------------------|----------|--------|-----------------|----------------------------------------------|--|--|--|--|--|
| SHEET NO. | STATION TO STATION | LOCATION | LENGTH | BOTTOM WIDTH | ARTICULATING CONC. BLOCK 602(B) | | | | | |
| SH | | | FT. | FT. | S.F. | | | | | |
| R004 | 114+07.25 TO 114+87.00 | LT. | 79.75 | 2.00 | 163.00 | | | | | |
| R004 | 114+07.25 TO 114+87.00 | RT. | 79.75 | 4.00 | 320.00 | | | | | |
| | TOTAL | | | | | | | | | |

| | SUMMARY OF EROSION CONTROL | | | | | | | | | | | |
|--------|----------------------------|-------------------------|------------------------|-----------------------|------------------------|--|--|--|--|--|--|--|
| ET NO. | STATION TO STATION | TEMPORARY SILT FENCE | TEMPORARY SILT DIKE | SOLID SLAB SODDING | VEGETATIVE MULCHING | | | | | | | |
| SHEET | | 221(B) L.F. | 221(E) L.F. | 230(A) S.Y. | 233(A) AC. | | | | | | | |
| | | | | | | | | | | | | |
| R003 | 111+10.00 TO 114+87.00 | 574.00 | 21.00 | 882.00 | 0.1 | | | | | | | |
| | TOTAL | 574.00 | 21.00 | 882.00 | 0.1 | | | | | | | |



SUMMARY SHEETS (ROADWAY)

MKEC PROJECT NO. K-2324-151 SHEET NO. ARO2

GENERAL TRAFFIC NOTES:

CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL TRAFFIC DURING CONSTRUCTION.

CONTRACTOR SHALL GIVE NOTICE TO CITY OF NORMAN IN WRITING 14 DAYS BEFORE WORK BEGINS ON THE PROJECT.

TRAFFIC OPERATIONS GENERAL CONSTRUCTION NOTES

ANY DAMAGE CAUSED BY THE CONTRACTOR TO ANY STRUCTURES, ROADWAY SURFACES, STRIPING, RAISED PAVEMENT MARKERS, GUARDRAIL, SLOPES, AND SIGNS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.

TRAFFIC SIGNING GENERAL CONSTRUCTION NOTES

ALL REGULATORY SIGNS SHALL HAVE HIGH INTENSITY SHEETING. THE HIGH INTENSITY SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956—(LATEST REVISION) FOR TYPE III SHEETING.

ALL WARNING SIGNS SHALL HAVE FLUORESCENT YELLOW SHEETING. THE FLUORESCENT YELLOW SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956—(LATEST REVISION) REQUIREMENTS FOR TYPE VIII SHEFTING

THE STATIONS AND LOCATIONS OF THE SIGN PLACEMENT, AS SHOWN ON THE PLAN SHEETS, ARE APPROXIMATE. EXACT STATIONS AND LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR SO THAT THE SIGN IS INSTALLED IN ACCORDANCE WITH DEPARTMENT STANDARDS AND THE MUTCD IN ORDER TO PROVIDE OPTIMUM VISIBILITY TO THE ONCOMING/APPROACHING MOTORIST. IF A PROPOSED LOCATION CONFLICTS WITH OTHER SIGNS, UTILITIES OR OTHER ROADWAY FEATURES, THE ENGINEER SHALL BE NOTIFIED.

TRAFFIC CONSTRUCTION PAY QUANTITY NOTES:

(TC-26) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS REQUIRED FOR COMPLETION OF THE PROJECT.

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

(TC-33) ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLUORESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST REVISION).

THE MANUFACTURER SHALL FURNISH A TYPE D'CERTIFICATION IN ACCORDANCE WITH O.D.O.T. STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR APPROVAL.

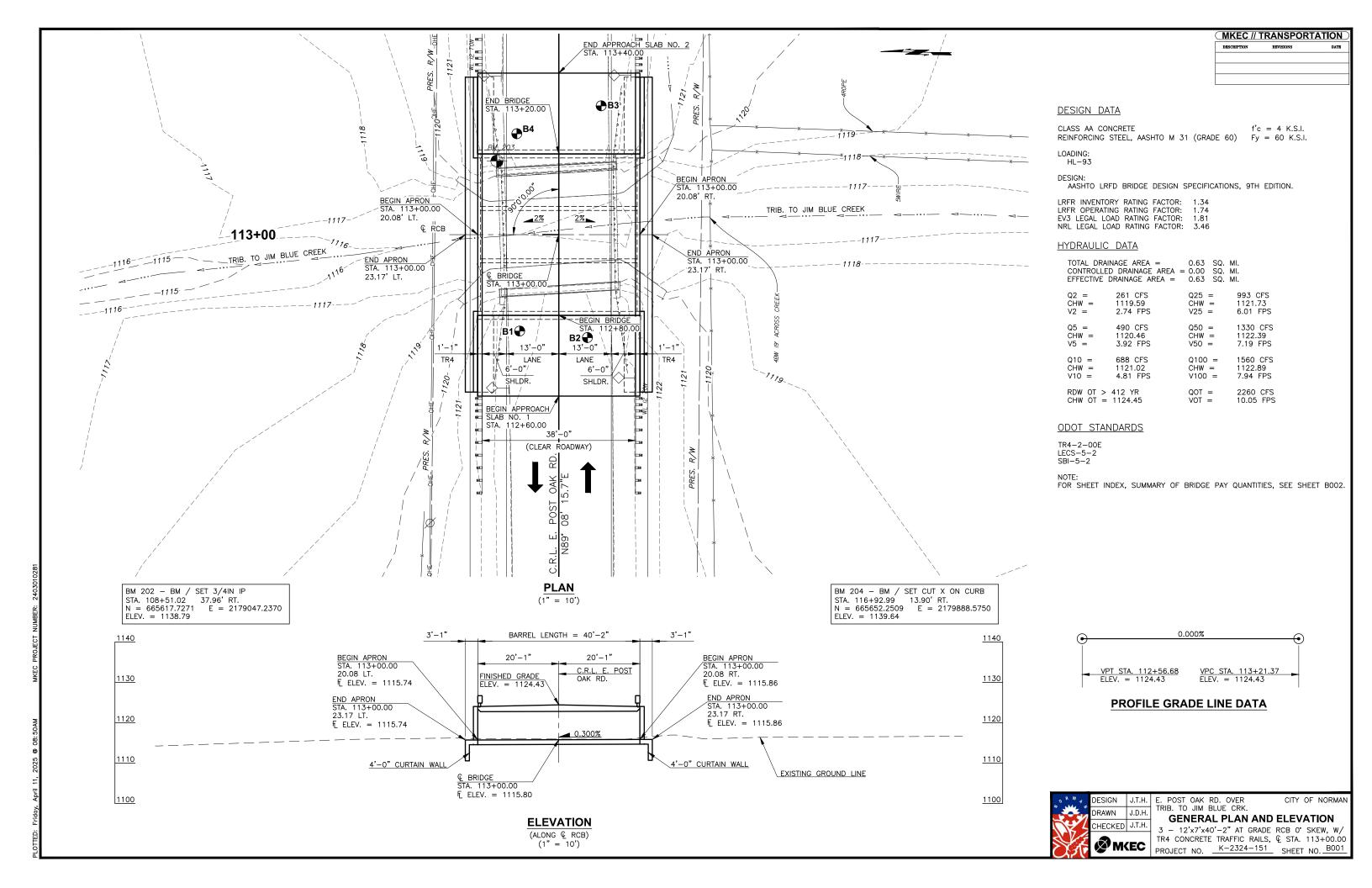
(TC-84) 90 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT O.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECTS CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.

| | REVISIONS | |
|----------|-------------|------|
| REV. NO. | DESCRIPTION | DATE |
| | | |

| K-2324-1 | K-2324-151 PAY QUANTITIES | | | | | | | | | | | |
|----------|---------------------------|----------------------------------------|-----------------------|------|----------|--|--|--|--|--|--|--|
| 0300 TRA | 0300 TRAFFIC TEMPORARY | | | | | | | | | | | |
| IT | EM | DESCRIPTION | | UNIT | QUANTITY | | | | | | | |
| 880(B) | 6300 | CONSTRUCTION SIGNS 0 TO 6.25 SF | (TC-26)(TC-33)(TC-84) | S.D. | 900.00 | | | | | | | |
| 880(B) | 6310 | CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF | (TC-26)(TC-33)(TC-84) | S.D. | 360.00 | | | | | | | |
| 880(B) | 6320 | CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF | (TC-26)(TC-33)(TC-84) | S.D. | 360.00 | | | | | | | |
| 880(C) | 6410 | CONSTRUCTION BARRICADES (TYPE III) | (TC-26)(TC-84) | S.D. | 1,620.00 | | | | | | | |
| 880(E) | 6600 | WARNING LIGHTS (TYPE A) | (TC-26)(TC-84) | S.D. | 360.00 | | | | | | | |

| | CONSTRUCTION SIGN SUMMARY | | | | | | | | | | | |
|----------------|---------------------------|---------|-------|----------|-------|---------|--------|----------|--------|--------|--|--|
| | CONSTRUCTION SIGN | | | | | | | | | | | |
| | CONST | . SIGNS | CONST | r. SIGNS | CONST | . SIGNS | CONSTR | UCTION | WAF | RNING | | |
| SHEET NO. | _ | 6.25 | | - 15.99 | | - 32.99 | BARRIO | | | SHTS | | |
| SHEET NO. | S | .F. | 9 | 5.F. | S | .F. | (TYPI | ∃ III) | (TY | PE A) | | |
| | 88 | 0(B) | 88 | 0(B) | 88 | 0(B) | 880 | (C) | 880(E) | | | |
| | EA. | S.D. | EA. | S.D. | EA. | S.D. | EA. | S.D. | EA. | S.D. | | |
| M4-9 | 8.00 | 90.00 | | | | | 8.00 | 90.00 | | | | |
| M4-10 | 2.00 | 90.00 | | | | | 2.00 | 90.00 | | | | |
| R11-2 | | | 2.00 | 90.00 | | | 2.00 | 90.00 | | | | |
| R11-3A | | | 2.00 | 90.00 | | | 2.00 | 90.00 | | | | |
| W20-2 | | | | | 2.00 | 90.00 | 2.00 | 90.00 | 2.00 | 90.00 | | |
| W20-3 | | | | | 2.00 | 90.00 | 2.00 | 90.00 | 2.00 | 90.00 | | |
| PHASE TOTAL | 10.00 | 90.00 | 4.00 | 90.00 | 4.00 | 90.00 | 18.00 | 90.00 | 4.00 | 90.00 | | |
| TOTAL | | 900.00 | | 360.00 | | 360.00 | | 1,620.00 | | 360.00 | | |
| SIGN DAY= 90 [| DAYS | | | | | | | | | | | |





| MKEC // TRANSPORTATION | | | | | | | | | | |
|------------------------|-----------|------|--|--|--|--|--|--|--|--|
| DESCRIPTION | REVISIONS | DATE | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

SHEET INDEX

| SUMMARY OF PAY QUANTITIES AND NOTES (BRIDGE) GENERAL PLAN AND ELEVATION BRIDGE PAY QUANTITIES SUMMARY FOUNDATION REPORTS (SHEET 1 OF 2) FOUNDATION REPORTS (SHEET 2 OF 2) BARREL DETAILS (SHEET 1 OF 2) END SECTION DETAILS (SHEET 1 OF 2) END SECTION DETAILS (SHEET 2 OF 2) END SECTION DETAILS (SHEET 2 OF 2) | AB01 B001 B002 B003 B004 B005 B006 B007 B008 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| END SECTION DETAILS (SHEET 2 OF 2) APPROACH SLAB DETAILS EXCAVATION DETAILS | B008 B009 B010 |

| SUMMARY OF BRIDGE QUANTITIES | | | | | | | | | | |
|--------------------------------------|-------|-------------------|------------|---------------------|-----------|--|--|--|--|--|
| ITEM | UNIT | APPROACH SLABS | RCB BARREL | RCB END SECTIONS | TOTAL | | | | | |
| UNCLASSIFIED EXCAVATION | C.Y. | | 100.00 | 910.00 | 1,010.00 | | | | | |
| STRUCTURAL EXCAVATION UNCLASSIFIED | C.Y. | | 190.00 | 115.00 | 305.00 | | | | | |
| APPROACH SLAB | S.Y. | 178.60 | | | 178.60 | | | | | |
| SAW-CUT GROOVING | S.Y. | 139.40 | 147.40 | | 286.80 | | | | | |
| CONCRETE RAIL (TR4) | L.F. | 80.00 | 80.00 | | 160.00 | | | | | |
| CLASS AA CONCRETE | C.Y. | | 201.00 | 81.40 | 282.40 | | | | | |
| REINFORCING STEEL | LB. | | 40,000.00 | 10,380.00 | 50,380.00 | | | | | |
| REMOVAL OF EXISTING BRIDGE STRUCTURE | L.SUM | | | | 1.00 | | | | | |

DESIGN J.T.H. E. POST OAK RD. OVER TRIB. CITY OF NORMAN TO JIM BLUE CRK.

CHECKED J.T.H. BRIDGE PAY QUANTITIES SUMMARY

MKEC | PROJECT NO. | K-2324-151 | SHEET NO. | B002

BORING LOG BORING NO. B-01 PAGE 1 OF 1 CLIENT: MKEC ENGINEERING ENGINEER: JONATHAN HISEY, SE, PE LOCATION: 0.35 MI. EAST OF 96TH PROJECT: K-2324-151 - E. POST OAK ROAD OVER AVENUE SE, NORMAN, OK TRIBUTARY OF JIM BLUE CREEK **SAMPLES TESTS** LIMITS (LL) (PL) INDEXES (PI) #200 SIEVE DRY DENSITY, PCF USCS SYMBOL LAYER / MATERIAL RECOVERY, MOISTURE, GRAPHICS **DESCRIPTION** DEPTH, SPT- N BLOWS LOCATION = 112+76.1, 9.7' Left of CRL SURFACE ELEV. = 1123.94 feet VEG. THICK.: N/A - Asphalt 9" ASPHALT PAVEMENT PA LL = 34 PL = 17 PI = 17 \-#200 = 55.4% CL SS 9 15.4 MEDIUM STIFF, BROWN, SANDY LEAN CLAY ELEV. = 1119.94 PL = NP PL = NP PI = NP \-#200 = 25.9% SM 2 SS 18 11.0 3 VERY LOOSE, RED-BROWN, SILTY SAND PA ELEV. = 1114.94 LL = 24 PL = 17 PI = 7 \-#200 = 49.0% □sc-sм 3 15.2 SS 8 LOOSE, BROWN, SILTY, CLAYEY SAND ELEV. = 1110.94 PA $ar{m{\Lambda}}$ 21.5 4 SS 18 4 SOFT TO MEDIUM STIFF, RED-BROWN, SANDY FAT CLAY PA 20.6 SS 18 7 5 ELEV. = 1102.44 Bottom of Boring at 21.50 feet REMARKS: SOIL AND ROCK CLASSIFICATIONS ARE FROM DISTURBED SAMPLES. CORE SAMPLES AND FURTHER LABORATORY TESTING MAY REVEAL OTHER ROCK AND/OR SOIL TYPES. THE STRATIFICATION SHOWN IN THE SOIL AND ROCK ABOVE IS AN ESTIMATION OF IN-SITU CONDITIONS. THEREFORE, THE NATURAL TRANSITION BETWEEN SOIL AND ROCK TYPES MAY BE GRADUAL. * ESTIMATED FROM POCKET PENETROMETER WATER LEVEL OBSERVATIONS DATE STARTED ARROWHEAD WL ∑ 13 ft - WD DATE COMPLETED 10/25/24 ▼ 14 ft - 2 Hrs. AB WLFOREMAN C.K. ARROWHEAD ENGINEERING COMPANY RIG CME-750X 5171 84TH AVE SE NOBLE, OK 73068 OFFICE (405) 310-8467 FAX (405) 310-8468 WL REVIEWED C.K. JOB NO. 1941

| | BORING L | | BOR | | | | | | | E 1 OF | 1 | |
|-------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------|----------------|-----------|----------|----------------|-----------------------|-------------|---------------------|-----------------------------|---------------------------------------------------------------|
| | NT: MKEC ENGINE | ERING | ENG | INEEF | R: JC | NATI | HAN | HISE | Y, SE | , PE | | |
| | TION: 0.35 MI. EA | | 1 | JECT: SUTAR | | | | | | AK ROA | ND OVE | ER . |
| | | | | | | SAM | PLE | S | | TE | STS | |
| GRAPHICS LOG | LAYER / MA DESCRIF LOCATION = 112+74.5, 7.1' SURFACE ELEV. = 1124.02 VEG. THICK.: N/A - Asphalt | PTION Right of CRL | DEPTH, FT. | USCS SYMBOL | NUMBER | TYPE | RECOVERY, IN. | SPT- N BLOWS / FT. | MOISTURE, % | DRY DENSITY, PCF | UNCONFINED STRENGTH, TSF | LIMITS (LL) (PL) INDEXES (PI) #200 SIEVE |
| (); | 9" ASPHALT PAVEMENT | ELEV. = 1123.27 | | 1 | | PA | | | | | | LL = 39 |
| | MEDIUM DENSE, BROWI | N, CLAYEY SAND ELEV. = 1121.52 | E. | sc | 1 | SS | 16 | 14 | 9.6 | | | PL = 39 PL = 4 PI = 35 \-#200 = 40.0% |
| | LOOSE, RED-BROWN, S | | _ _ _ 5 · | | | PA | | | | | | LL = NP |
| | | ELEV. = 1118.27 | Ė | ML SM | 2A 2B | SS | 18 18 | 6 | 7.5 18.4 | | | PL = NP PI = NP |
| | MEDIUM STIFF, DARK BE SILT | ROWN, SANDY <u>ELEV. = 1115.02</u> | <u> </u> | | | PA | | | | | | #200 = 23.0% LL = NP PL = NP PI = NP #200 = 55.4% |
| | LOOSE, BROWN, CLAYE | OOSE, BROWN, CLAYEY SAND | | | | SS | 18 | 9 | 14.7 | | | LL = 24 PL = 15 PI = 9 \#200 = 42.0% |
| | abla | ELEV. = 1110.02 | F | \exists | | '^ | | | | | | |
| | STIFF, RED-BROWN, FA | T CLAY ▼ | 15 · | | 3 | SS | 18 | 11 | 17.8 | | | |
| | | ELEV. = 1105.02 | E - 20 | | | PA | | | | | | |
| | SOFT TO MEDIUM STIFF FAT CLAY | , RED-BROWN, | | | 4 | SS PA | 18 | 7 | 20.9 | | | |
| | | ELEV. = 1097.52 | 25 | | 5 | SS | 18 | 4 | 21.8 | | | |
| | Bottom of Boring at 26.50 | | - 30 | | | | | | | | | |
| REMA ARROWN OFFICE (4 | REVEAL OTHER ROC IN-SITU CONDITIONS | SSIFICATIONS ARE FROM K AND/OR SOIL TYPES THEREFORE, THE NAPPOCKET PENETROMET | OM DISTU . THE STI ATURAL T | RATIFICAT | ION SH | MI NWC | THE SO | OIL AND R | OCK AB | OVE IS AN ES | STIMATION | |
| | A ARROWHEAD | WATER LEV | EL OBS | | IONS | С | ATE | START | ED | 10/2 | 25/24 | |
| | AKKUW MEAU ENGINEERING | WL | | ▼ 1 | 8 ft - AE | _ | DATE COMPLETED | | | | 10/25/24 | |
| ARROW | HEAD ENGINEERING COMPANY 5171 84TH AVE SE | WL 12.75 ft - | 4 Hrs. AB | | | - - | RIG | CME-75 | | | EMAN | C.K. |
| OFFICE (4 | NOBLE, OK 73068 05) 310-8467 FAX (405) 310-8468 | WL | | | | F | REVIE | WED | C.K. | JOB | NO. 19 | 941 |

DESIGN J.T.H. E. POST OAK RD. OVER TRIB. CITY OF NORMAN DRAWN P.W.D. HECKED J.T.H. MKEC PROJECT NO. K-2324-151 SHEET NO. B003

FOUNDATION REPORTS (SHEET 1 OF 2)

| | BORING L | .00 | 3 | | BORI | NG | NO. | B-0 | 03 | | PAG | E 1 OF | : 1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------|---------------------|----------------|-----------|----------|---------------|-----------------------|-------------|-------------------------------------------------|-----------------------------|------------------------------------------------|
| | NT: MKEC ENGINE | ERIN | IG | ENG | NEER | : JC | NATI | HAN | HISE | Y, SE | , PE | | |
| <u>d</u> | TION: 0.35 MI. EA IUE SE, NORMAN, | | F 96TH | | JECT: UTAR` | | | | | | AK ROA | AD OVE | ĒR |
| | | | | | | | SAM | PLE | S | | TE | STS | |
| GRAPHICS LOG | LAYER / MA DESCRIP LOCATION = 113+31.9, 10.5 SURFACE ELEV. = 1124.05 VEG. THICK.: N/A - Asphalt 9" ASPHALT PAVEMENT | TION 5' Right of feet | l of CRL | ОЕРТН, FT. | USCS SYMBOL | NUMBER | TYPE | RECOVERY, IN. | SPT- N BLOWS / FT. | MOISTURE, % | DRY DENSITY, PCF | UNCONFINED STRENGTH, TSF | LIMITS (LL) (PL) INDEXES (PI) #200 SIEVE |
| | 9 ASPITALI PAVLIVILINI | EL | EV. = 1123.3 | | CL | 1 | PA SS | 12 | 3 | 17.2 | | | LL = 39 PL = 19 |
| ANDCO RCB | SOFT, BROWN, SANDY L | | .AY EV. = 1120.05 | | | ' | PA | 12 | <u> </u> | 17.2 | | | PI = 20 \-#200 = 69.2% |
| COLEVEL | LOOSE, BROWN, SILTY | <u> </u> | SM | 2 | SS | 18 | 6 | 12.9 | | | LL = NP PL = NP PI = NP \-#200 = 43.0% | | |
| SLUECREE | | <u> </u> | | | PA | | | | | | | | |
| NATRIBUIME | MEDIUM STIFF, BROWN CLAY | 10- | CL | 3 | SS | 18 | 8 | 14.8 | | | LL = 24 PL = 15 PI = 9 \-#200 = 59.7% | | |
| | ☑ MEDIUM STIFF, RED-BR | | EV. = 1112.05 | | | | PA | | | | | | \-#200 = 59.1%g |
| THE STATE OF THE S | CLAY | JVVIN, S | ANDT FAT | | | 4 | SS PA | 18 | 9 | 17.6 | | | |
| | SOFT, RED-BROWN, SAI | | EV. = 1105.05 CLAY | _ 20- | | 5 | SS | 18 | 4 | 21.4 | | | |
| JOBS-2024/1 PR | Bottom of Boring at 21.50 | ELEV. = 1102.55 Bottom of Boring at 21.50 feet | | | | 3 | - 55 | 10 | 4 | 21.4 | | | |
| ENG. CO. DROPBOXIAEC JOBS | | | | 25 - | | | | | | | | | |
| | RKS: SOIL AND ROCK CLA REVEAL OTHER ROC IN-SITU CONDITIONS * ESTIMATED FROM I | K AND/C | OR SOIL TYPES. EFORE, THE NA | THE STR TURAL TR | ATIFICATI | ON SH | MI NWC | THE SO | OIL AND R | OCK ABO | OVE IS AN E | STIMATION | MAY OF |
| HANIC | A ADDOWNEAD WATER LEVE | | | EL OBS | ERVAT | ONS | С | ATE | START | ED | 10/25/24 | | |
| SRYCE | AKKUWHEAD WL \(\sqrt{13 ft} \) | | | | ▼ 18 | B ft - AE | 3 [| ATE | COMP | LETED |) | 10/25/24 | |
| ARROW | HEAD ENGINEERING COMPANY 5171 84TH AVE SE | WL | <u>▼</u> 14 ft - 3 l | Hrs. AB | | | F | RIG | CME-75 | 0X | - | EMAN | C.K. |
| OFFICE (4 | NOBLE, OK 73068 DFFICE (405) 310-8467 FAX (405) 310-8468 | | | | | | F | REVIE | WED | C.K. | JOB | NO. 19 | 941 |

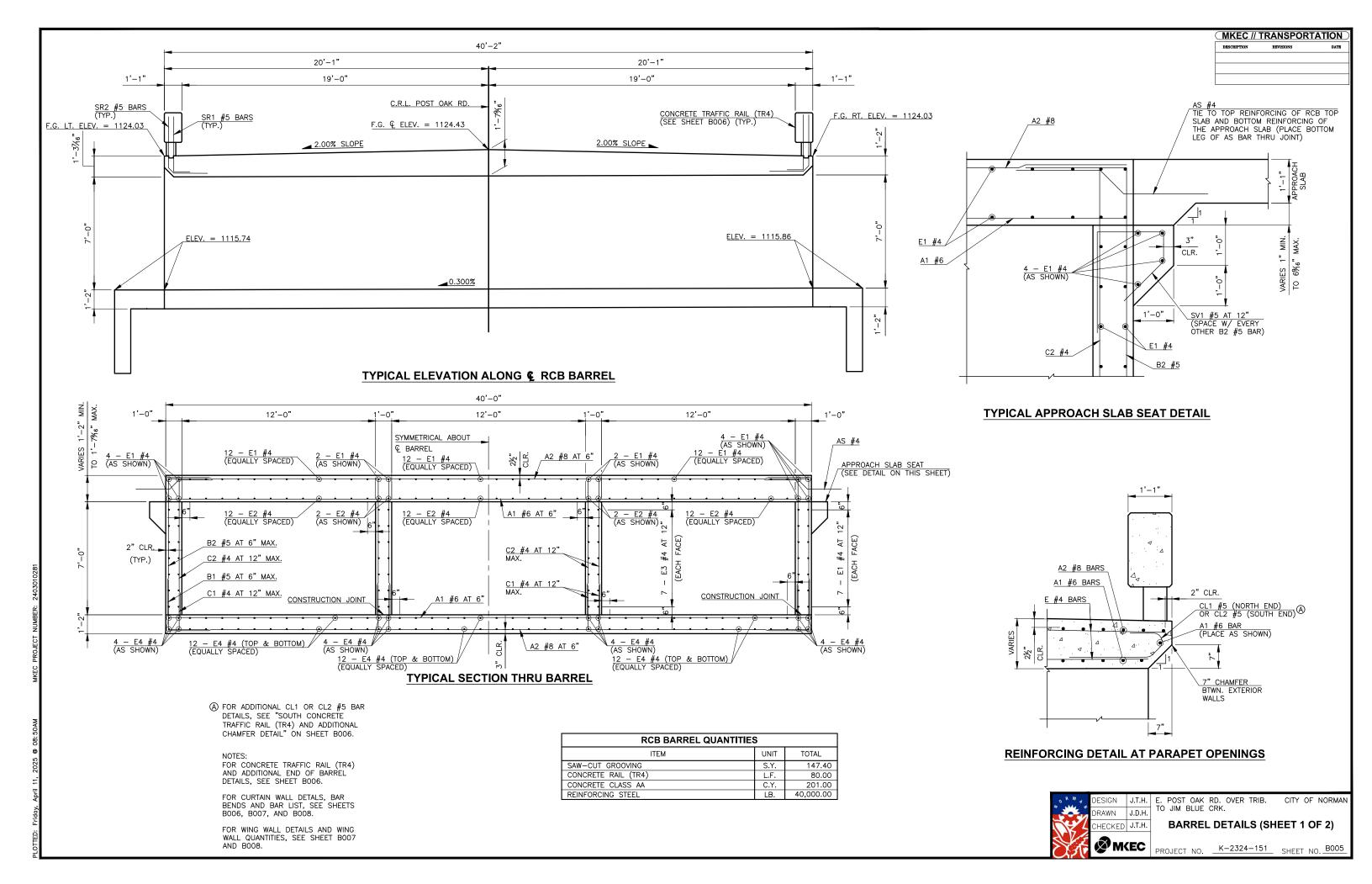
| | BORING L | .OG | | BORI | NG | NO. | B-0 |)4 | | PAG | E 1 OF | 1 | |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------|---------|----------|----------------|-----------------------|-------------|---------------------|-----------------------------|-------------------------------------------------|--|
| | NT: MKEC ENGINE | ERING | ENGI | NEER | : JC | NATI | HAN | HISE | Y, SE | , PE | | | |
| 2 | TION: 0.35 MI. EA IUE SE, NORMAN, | | 1 | PROJECT: K-2324-151 - E. POST OAK ROAD OVER TRIBUTARY OF JIM BLUE CREEK | | | | | | ER . | | | |
| - t | | | | | | SAM | PLE | S | | TE | STS | | |
| GRAPHICS LOG | LAYER / MA DESCRIF LOCATION = 113+25.0, 10.4 SURFACE ELEV. = 1124.03 VEG. THICK.: N/A - Asphalt | PTION I' Left of CRL | ОЕРТН, FT. | USCS SYMBOL | NUMBER | TYPE | RECOVERY, IN. | SPT- N BLOWS / FT. | MOISTURE, % | DRY DENSITY, PCF | UNCONFINED STRENGTH, TSF | LIMITS (LL) (PL) INDEXES (PI) #200 SIEVE | |
| | 9" ASPHALT PAVEMENT | ELEV. = 1123.28 | = : | | | PA | | | | | | LL = 31 | |
| 17.1.1.1.1.1.1.1.1 | LOOSE, BROWN, CLAYE | Y SAND ELEV. = 1120.03 | | sc | 1 | SS PA | 14 | 7 | 12.5 | | | PL = 18 PI = 13 \#200 = 42.4% | |
| | | LLLV 1120.00 | E 5 - | - | | PA | _ | | | | | II = NP | |
| 1 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 | | | | SM | 2 | SS | 18 | 5 | 12.7 | | | LL = NP PL = NP PI = NP \-#200 = 37.8% | |
| STOANOVRI NIBUMBLUECKER | LOOSE, RED-BROWN, S | ILTY SAND | | | | PA | | | | | | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | | | E 10 - | SM | 3 | SS | 4 | 8 | 15.3 | | | LL = NP PL = NP PI = NP | |
| | abla | <u>▼</u> ELEV. = 1110.03 | | | | PA | | | | | | \-#200 = 48.3% | |
| | | ▼ | 15 | | 4 | SS | 18 | 4 | 20.0 | | | | |
| | SOFT TO MEDIUM STIFF SANDY FAT CLAY | _ | | | | PA | | | 2010 | | | | |
| | | | 20 | | 5 | SS | 18 | 8 | 17.4 | | | | |
| | Bottom of Boring at 21.50 | ELEV. = 1102.53 feet | | | 3 | - 33 | 10 | 0 | 17.4 | | | | |
| | | | 25 | | | | | | | | | | |
| ENG. CC. DROPBOXINEC JOBS | | | 30- | | | | | | | | | | |
| REMA ARROWH | REVEAL OTHER ROO IN-SITU CONDITIONS | SSIFICATIONS ARE FROM K AND/OR SOIL TYPES THEREFORE, THE NAPOCKET PENETROMET | OM DISTUR THE STR TURAL TR | ATIFICATI | ON SH | MI NWC | THE SO | OIL AND R | OCK ABO | OVE IS AN ES | STIMATION | | |
| | A | WATER LEV | | ERVATI | ONS | | ATE | START | ED | 10/2 | 25/24 | | |
| | ARROWHEAD | WL | | | ft - AE | 3 [| DATE COMPLETED | | | | 10/25/24 | | |
| ARROW | HEAD ENGINEERING COMPANY 5171 84TH AVE SE | WL \(\frac{\Pi}{2}.58 \text{ ft - 2.}\) | 25 Hrs. AE | 3 | | F | RIG CME-750X | | | FOR | EMAN | C.K. | |
| OFFICE (4 | NOBLE, OK 73068 105) 310-8467 FAX (405) 310-8468 | WL | | | | F | REVIE | WED | C.K. | JOB | NO. 19 | 941 | |

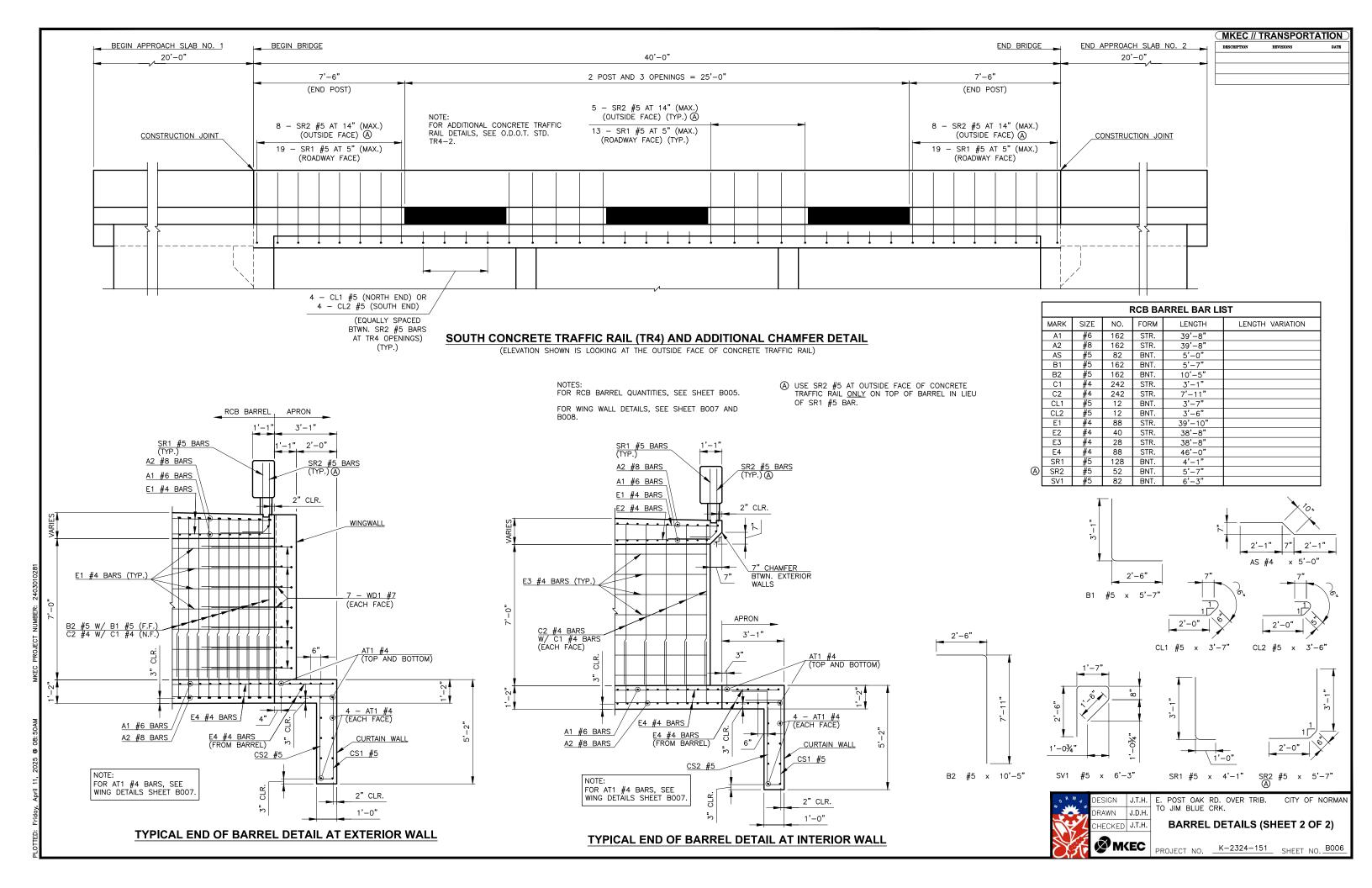


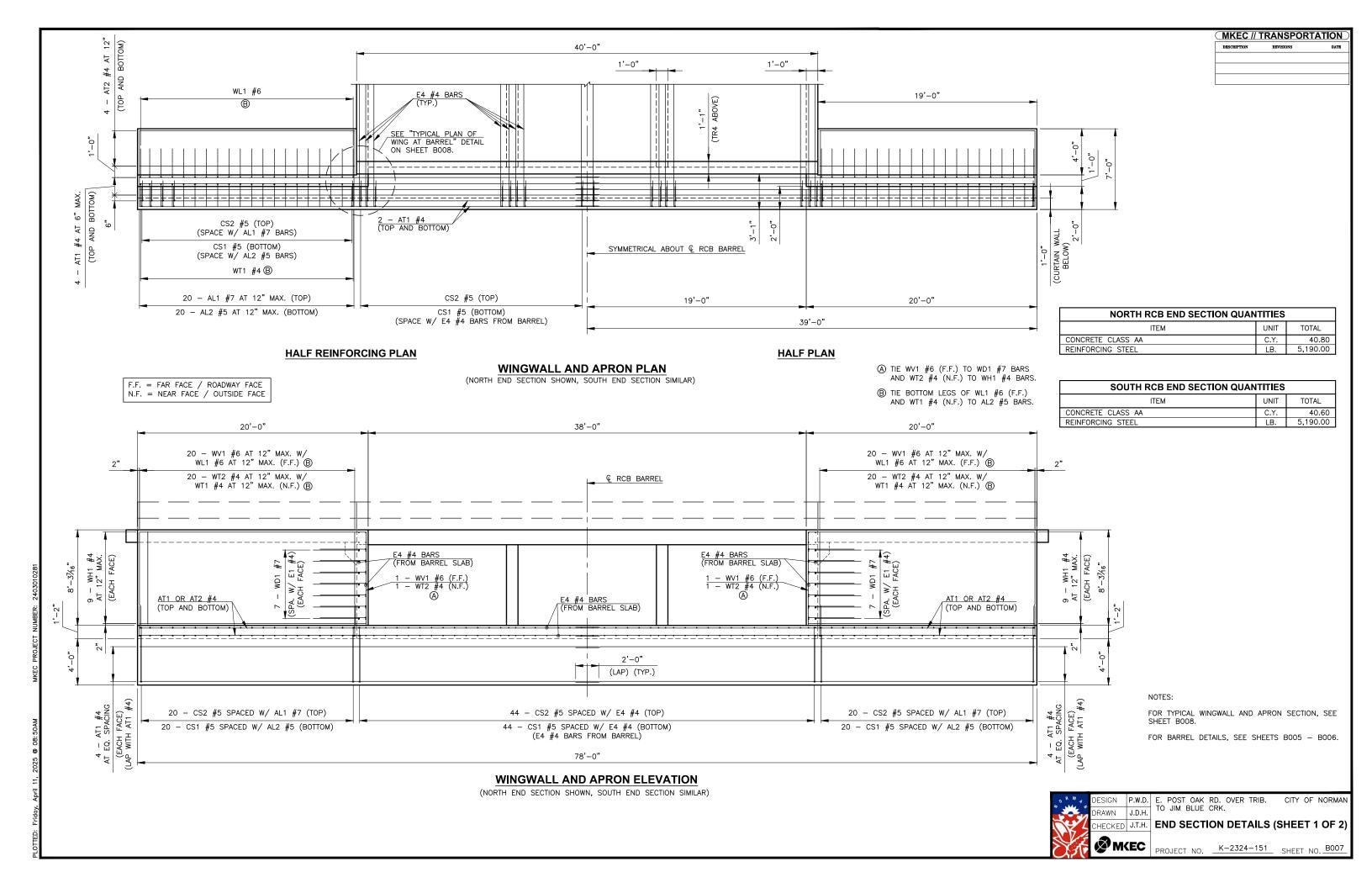
DESIGN J.T.H. E. POST OAK RD. OVER TRIB. CITY OF NORMAN TO JIM BLUE CRK.

FOUNDATION REPORTS
(SHEET 2 OF 2)

MKEC PROJECT NO. K-2324-151 SHEET NO. B004

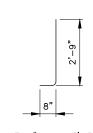


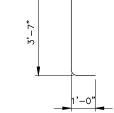


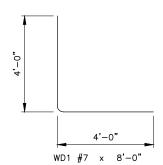


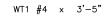
| WINGWALL BAR LIST | | | | | | | | | | |
|---------------------------|------|-----|------|---------|------------------|--|--|--|--|--|
| (ONE SHOWN, TWO REQUIRED) | | | | | | | | | | |
| MARK | SIZE | NO. | FORM | LENGTH | LENGTH VARIATION | | | | | |
| AL1 | #7 | 40 | STR. | 6'-8" | | | | | | |
| AL2 | #5 | 40 | STR. | 6'-8" | | | | | | |
| AT1 | #4 | 24 | STR. | 39'-10" | | | | | | |
| AT2 | #4 | 16 | STR. | 18'-8" | | | | | | |
| WD1 | #7 | 28 | BNT. | 8'-0" | | | | | | |
| WH1 | #4 | 36 | STR. | 18'-8" | | | | | | |
| WL1 | #6 | 40 | BNT. | 4'-7" | | | | | | |
| WT1 | #4 | 40 | BNT. | 3'-5" | | | | | | |
| WT2 | #4 | 40 | STR. | 8'-0" | | | | | | |
| WV1 | #6 | 40 | STR | 8'-0" | | | | | | |

| | CURTAIN WALL BAR LIST | | | | | | | | | | | |
|---------------------------|-----------------------|-----|------|---------|------------------|--|--|--|--|--|--|--|
| (ONE SHOWN, TWO REQUIRED) | | | | | | | | | | | | |
| MARK | SIZE | NO. | FORM | LENGTH | LENGTH VARIATION | | | | | | | |
| AT1 | #4 | 16 | STR. | 39'-10" | | | | | | | | |
| CS1 | #5 | 84 | BNT. | 5'-10" | | | | | | | | |
| CS2 | #5 | 84 | BNT. | 7'-1" | | | | | | | | |

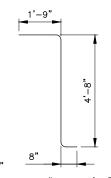








WL1 #6 x 4'-7"



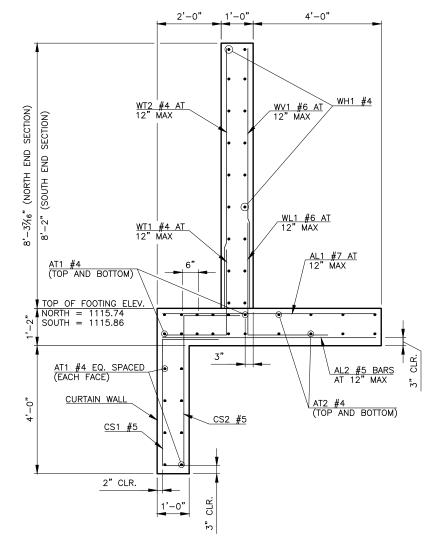
| 1'-9" | 1'-9" |
|-----------------|----------------|
| | ,4 ,8 ,8 |
| CS1 #5 × 5'-10" | 8" |
| 33. #3 × 3 · 3 | CS2 #5 x 7'-1" |



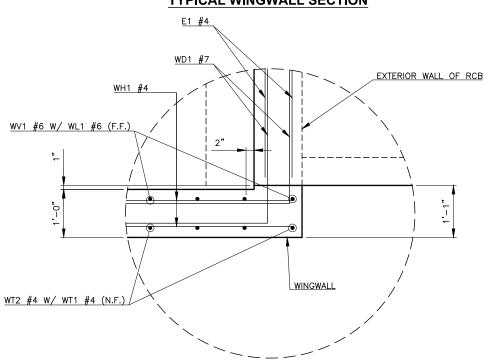
| P.W.D. | E. POST OAK RD. OVER TRIB. | CITY OF NORMAN |
|--------|----------------------------|----------------|
| J.D.H. | TO JIM BLUE CRK. | |
| | | ALIEET A AE AL |

CHECKED J.T.H. END SECTION DETAILS (SHEET 2 OF 2)

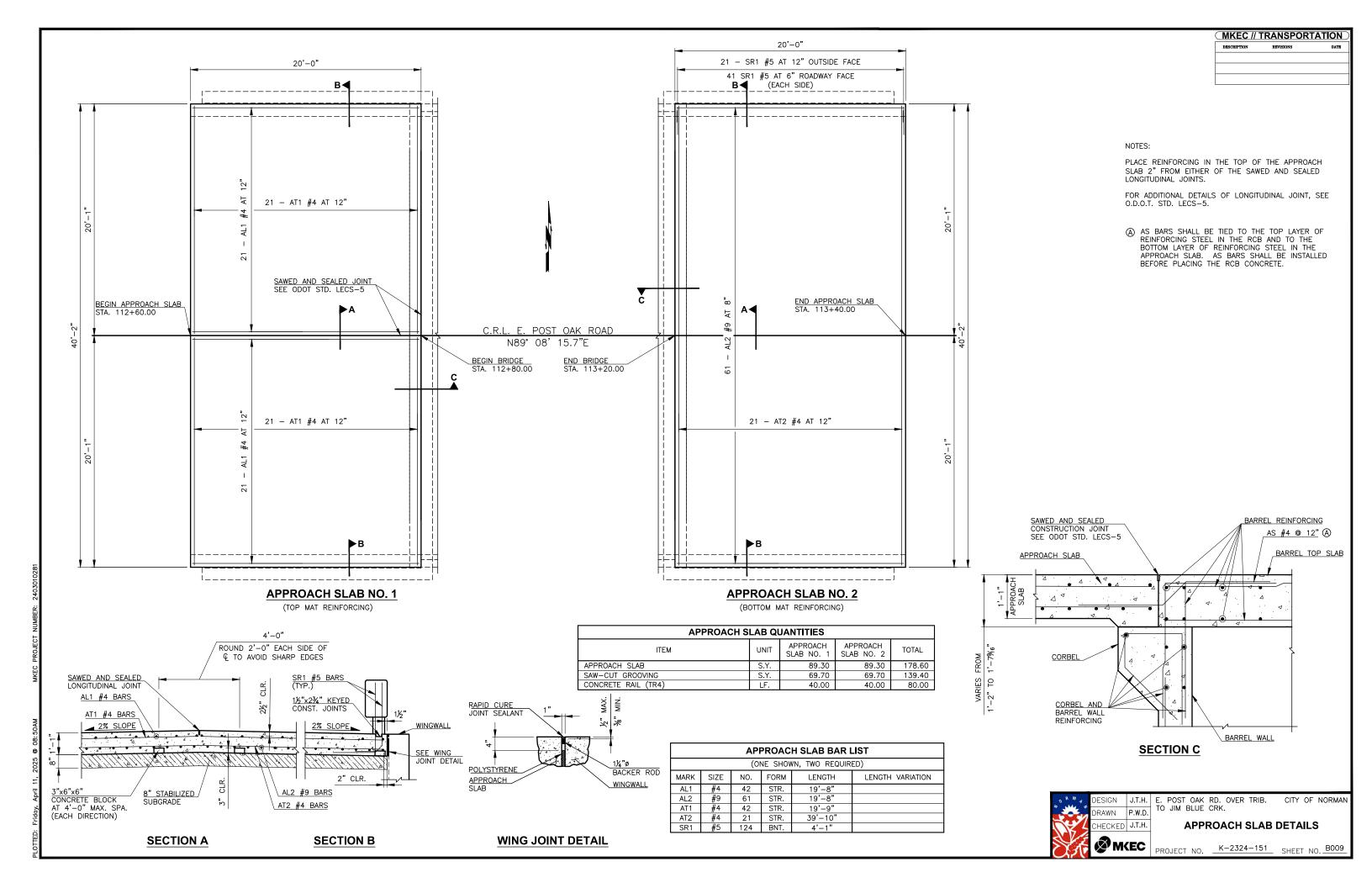
MKEC PROJECT NO. K-2324-151 SHEET NO. B008



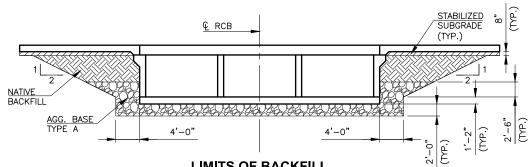
TYPICAL WINGWALL SECTION



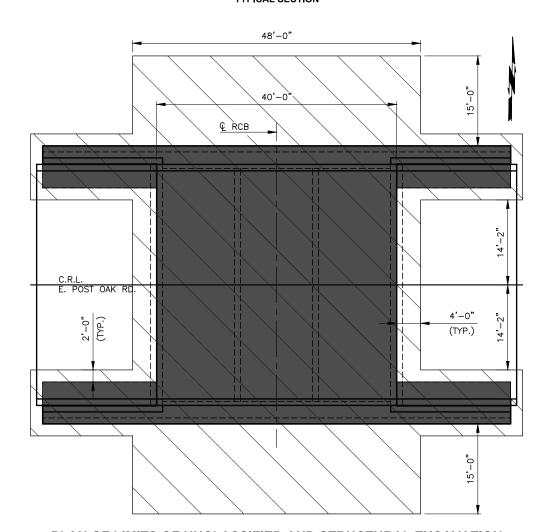
TYPICAL PLAN OF WING AT BARREL



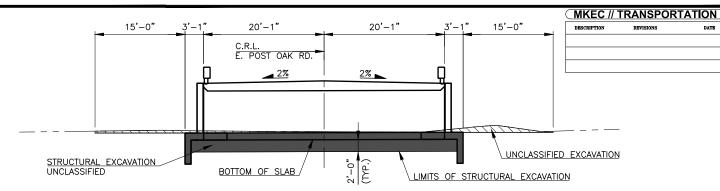
LIMITS OF UNCLASSIFIED AND STRUCTURAL EXCAVATION TYPICAL SECTION



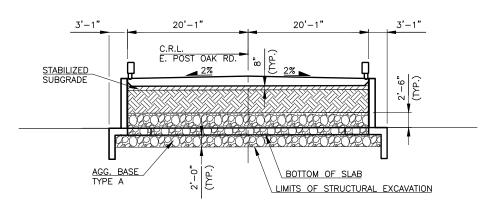
LIMITS OF BACKFILL TYPICAL SECTION



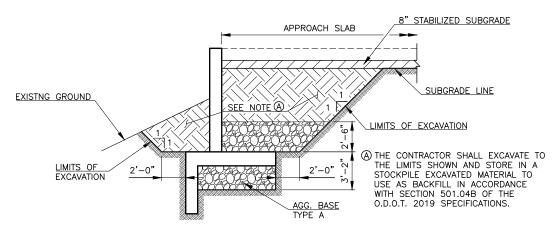
PLAN OF LIMITS OF UNCLASSIFIED AND STRUCTURAL EXCAVATION



LIMITS OF UNCLASSIFIED AND STRUCTURAL EXCAVATION ELEVATION



LIMITS OF BACKFILL ELEVATION



TYPICAL WING WALL EXCAVATION AND BACKFILL DETAIL

| SUMMARY OF EX | CAVA | TION QUANT | ITIES | |
|------------------------------------|------|------------|-------------|----------|
| ITEM | UNIT | BARREL | END SECTION | TOTAL |
| UNCLASSIFIED EXCAVATION | C.Y. | 100.00 | 910.00 | 1,010.00 |
| AGGREGATE BASE TYPE A | C.Y. | 170.00 | 130.00 | 300.00 |
| STRUCTURAL EXCAVATION UNCLASSIFIED | C.Y. | 190.00 | 115.00 | 305.00 |

NOTE:

AGGREGATE BASE TYPE A BACKFILL TO BE PAID AS ROADWAY PAY ITEM.



| E. | POST | OAK | RD. | OVER | TRIB |
|----|------|------|-----|------|------|
| TO | JIM | BLUE | CRK | | |

EXCAVATION DETAILS

CITY OF NORMAN

PROJECT NO. K-2324-151 SHEET NO. B010

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UNCLASS

UNCLASSIFIED EXCAVATION



STRUCTURAL EXCAVATION UNCLASSIFIED



AGGREGATE BASE TYPE A



NATIVE BACKFILL



STABILIZED SUBGRADE

LEGEND

NOTES:

SIONS

DATE

SITE DESCRIPTION

EROSION AND SEDIMENT CONTROLS

| PROJECT RECORDING PRINCE A | AND APPROACHES ON E POST OAK RD. |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| PROJECT DESCRIPTION: BRIDGE A OVER TRIBUTARY TO JIM BLUE CREE | |
| | |
| | |
| CHOOLESTED SECHENCE OF EDOCION | CONTROL ACTIVITIES |
| SUGGESTED SEQUENCE OF EROSION PRIOR TO INITIATING SOIL DISTURBING ACTIV | CONTROL ACTIVITIES: VITIES, THE CONTRACTOR WILL INSTALL ALL PERIMETE |
| | D. STRIP, STOCKPILE AND STABILIZE TOPSOIL. CLEA |
| AND GRUB ONLY IN NECESSARY AREAS, PR | RESERVING AS MUCH NATIVE VEGETATION AS POSSIBL |
| · | RY SEDIMENT ITEMS WITH CONSTRUCTION OPERATIONS |
| | EER, PLANT TEMPORARY SEEDING. REPLACE SALVAGI |
| | ONTROL DEVICES WHEN AN ACCEPTABLE VEGETATIVE ED. AS SITE CONDITIONS WARRANT, THE CONTRACTOR |
| | RANGEMENT OF SPECIFIED PRACTICES TO IMPROVE |
| THEIR EFFECTIVENESS AS APPROVED BY TH | HE ENGINEER. THE CONTRACTOR WILL MAINTAIN A LO |
| OF THE DATES OF MAJOR SOIL DISTURBANG | CE ACTIVITIES, AND ALSO THE DATES OF INSTALLATION |
| OF EROSION. | |
| | |
| SOIL TYPE: | FINE SANDY LOAM |
| TOTAL AREA OF THE | |
| CONSTRUCTION SITE: | 0.61 AC. |
| STIMATED AREA TO BE DISTURBED: | 0.58 AC. |
| OFFSITE AREA TO BE DISTURBED: | 0.00 AC. |
| (FOR CONTRACTOR USE) | 0.00 /10. |
| TOTAL IMPERVIOUS AREA | |
| PRE-CONSTRUCTION: | 0.21 AC. |
| TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: | 0.34.40 |
| | 0.34 AC. |
| POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: | 0.35 |
| LATITUDE & LONGITUDE | 0.00 |
| LATITUDE & LONGITUDE OF CENTER OF PROJECT: | N= 35° 9'37.37"N |
| DD0 1507 144 | VI - DIOQUADOS TO |
| PROJECT WI | ILL DISCHARGE TO: |
| NAME OF RECEIVING WATERS: | JIM BLUE CREEK |
| ISITIVE WATERS OR WATERSHEDS: | YES X NO |
| 303(d) IMPAIRED WATERS: | YES NO X |
| IF YES, LIST IMPAIRMENT: | |
| LOCATED IN A TMDL: | YES X NO |
| LAKE THUNDERBIRD TMDL: | YES X NO |
| | |
| MS4 ENTITY | YES NO X |
| IF YES, LOCATION: | |

CONTROL SUMMARIES, PAY ITEMS, & NOTES.

| SOIL STABILIZATION PRACTICES: |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TEMPORARY SEEDING |
| X PERMANENT SODDING, SPRIGGING OR SEEDING |
| X VEGETATIVE MULCHING |
| SOIL RETENTION BLANKET |
| 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 |
| X TEMPORARY SILT FENCE |
| X TEMPORARY SILT DIKES |
| TEMPORARY FIBER LOG |
| DIVERSION, INTERCEPTOR OR PERIMETER DIKES |
| DIVERSION, INTERCEPTOR OR PERIMETER SWALES |
| ROCK FILTER DAMS |
| TEMPORARY SLOPE DRAIN |
| PAVED DITCH W/ DITCH LINER PROTECTION |
| TEMPORARY DIVERSION CHANNELS |
| TEMPORARY SEDIMENT BASINS |
| TEMPORARY SEDIMENT TRAPS |
| TEMPORARY SEDIMENT FILTERS |
| X TEMPORARY SEDIMENT REMOVAL |
| X RIP RAP |
| INLET SEDIMENT FILTER |
| TEMPORARY BRUSH SEDIMENT BARRIERS |
| SANDBAG BERMS |
| TEMPORARY STREAM CROSSINGS |
| X FLEXAMAT / ARTICULATED CONCRETE BLOCK |
| COMPOST FILTER SOCKS |
| EROSION CONTROL MATS AND BLANKETS |
| OFFSITE VEHICLE TRACKING: |
| $\underline{\hspace{1cm}}$ HAUL ROADS DAMPENED FOR DUST CONTROL |
| $\underline{\hspace{1cm}}$ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN |
| X EXCESS DIRT ON ROAD REMOVED DAILY |
| |

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

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

WASTE MATERIALS:

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

HAZARDOUS MATERIALS:

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

GENERAL NOTES:

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

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

103.05 BONDING REQUIREMENTS

104.10 FINAL CLEANING UP

104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK

104.13 ENVIRONMENTAL PROTECTION

106.08 STORAGE AND HANDLING OF MATERIAL

107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED

107.20 STORM WATER MANAGEMENT

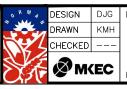
220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL

221 TEMPORARY SEDIMENT CONTROL

IN ADDITION:

"ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ, WATER QUALITY DIVISION, OCTOBER 18, 2022.

ADDITIONAL PERMITS REQUIRED FROM OKLAHOMA WATER RESOURCES BOARD



E. POST OAK ROAD

CLEVELAND COUNTY

STORM WATER
MANAGEMENT PLAN

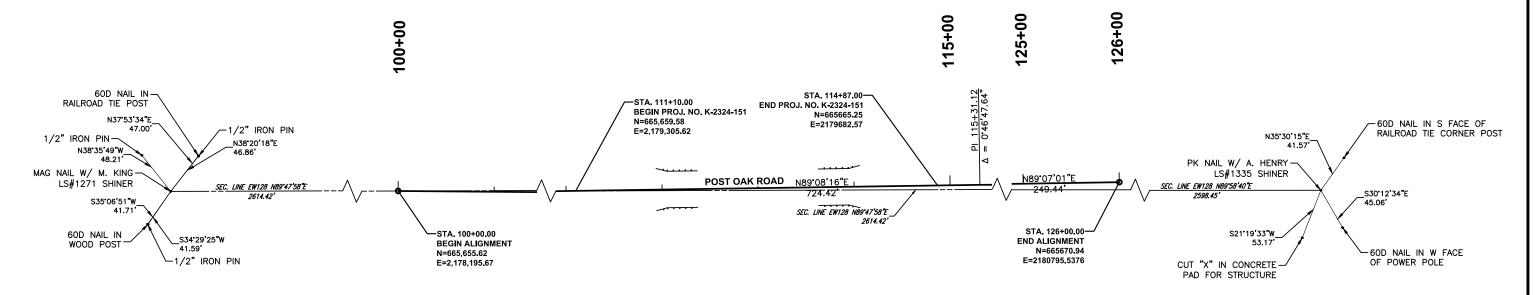
PROJECT NO. K-2324-151 SHEET NO. R001

DATE DESCRIPTION

SEC. 16, T8N, R1W

SEC. 15, T8N, R1W

SEC. 14, T8N, R1W



SEC. 21, T8N, R1W

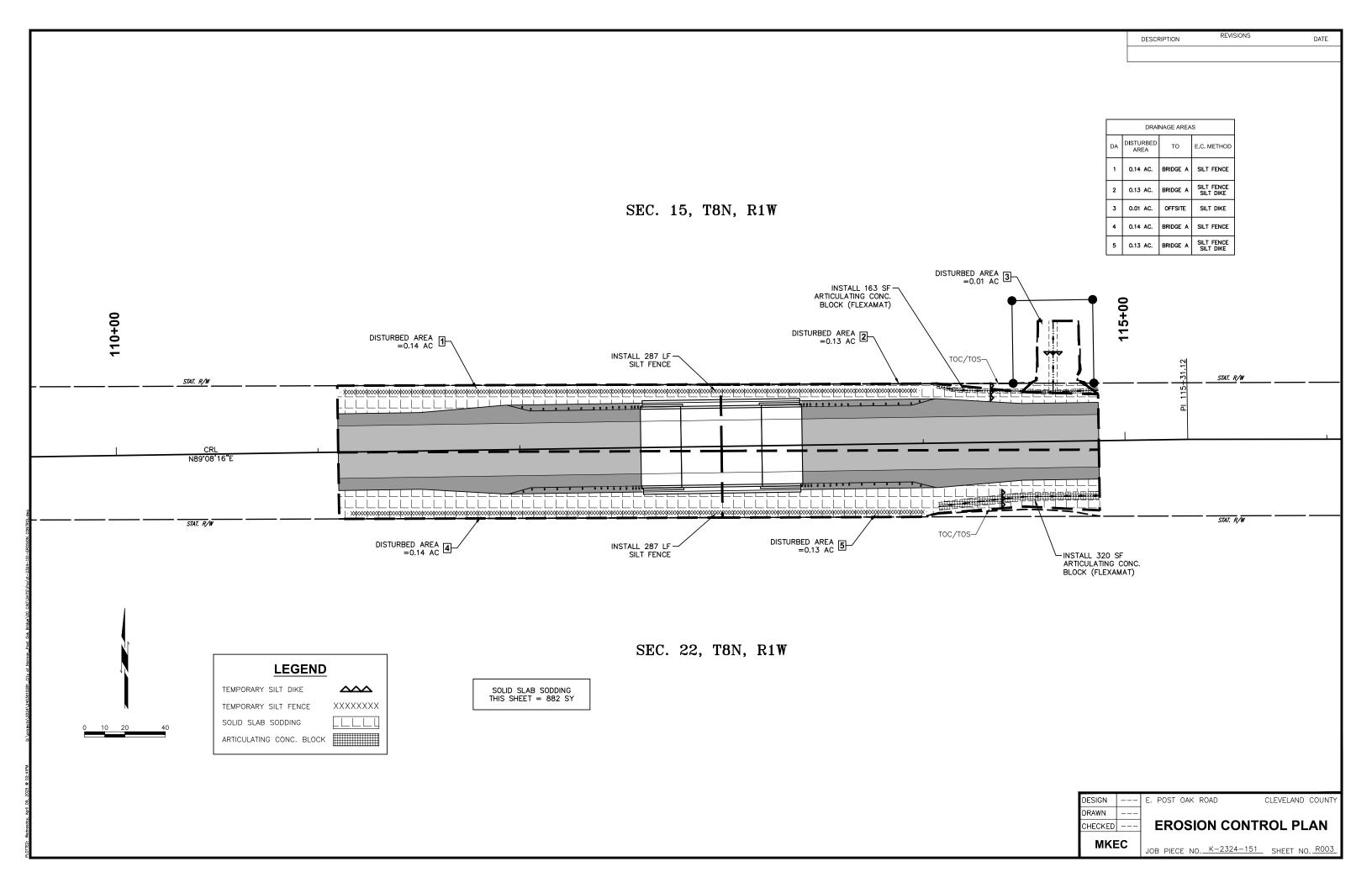
SEC. 22, T8N, R1W

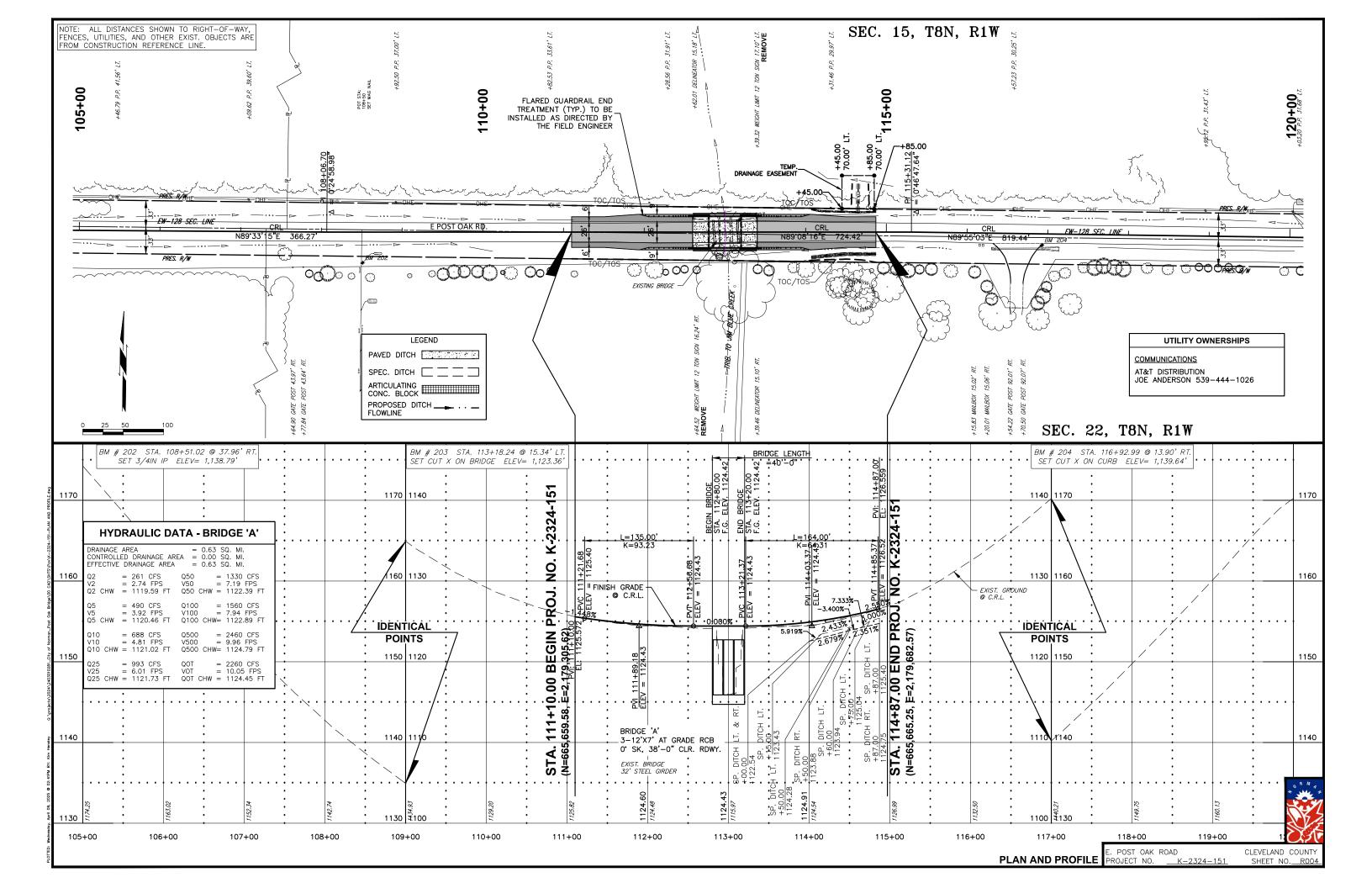
SEC. 23, T8N, R1W



DESIGN E. POST OAK ROAD CLEVELAND COUNTY DRAWN **GEOMETRIC DATA** CHECKED ---

MKEC JOB PIECE NO. K-2324-151 SHEET NO. R002





SURVEY CONTROL DATA

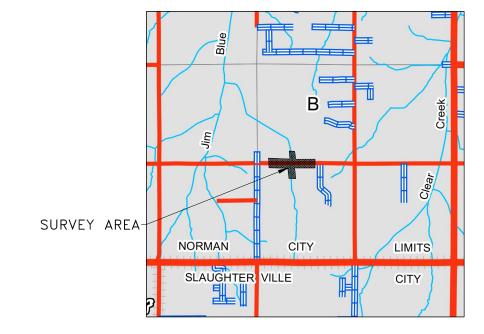
- POSITIONAL CONTROL:
- POSITIONAL CONTROL FOR THIS SURVEY IS THE NGS OKLAHOMA STATE PLANE COORDINATE SYSTEM, NAD88 (1993), LAMBERT PROJECTION (SOUTH ZONE).
- ACCURACY THE POSITIONAL CONTROLS FOR THIS SURVEY MEETS OR EXCEEDS THE FOLLOWING ACCURACY CRITERIA:
- NETWORK ACCURACY: 0.10 FOOT
- LOCAL ACCURACY: 0.05 FOOT
- BEARINGS:

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

- 3. VERTICAL CONTROLS:
- LEVEL DATUM IS NAVD 88 FROM Differential Leveling
- ACCURACY VERTICAL CONTROL FOR THIS SURVEY MEETS OR EXCEEDS THE FOLLOWING ACCURACY CRITERIA:
- NETWORK ACCURACY (FROM GPS OR LEVELING): 0.10 FOOT
- LOCAL ACCURACY (CONFIRMED BY LEVELING): 0.02 FOOT

| | Poi | nt Table | | |
|---------|-----------------------------|--------------|----------------|-----------|
| Point # | Description | Northing | Easting | Elevation |
| 1 | CP / SET 1/2IN IP W/ CP CAP | 665,613.5710 | 2,178,204.4740 | 1,181.37 |
| 2 | CP / SET 1/2IN IP W/ CP CAP | 665,694.3894 | 2,180,928.6440 | 1,196.72 |
| 201 | BM / SET 3/4IN IP | 665,606.2776 | 2,178,592.7251 | 1,189.40 |
| 202 | BM / SET 3/4IN IP | 665,617.7271 | 2,179,047.2370 | 1,138.79 |
| 203 | BM / SET CUT X ON BRIDGE | 665,678.0427 | 2,179,513.5970 | 1,123.36 |
| 204 | BM / SET CUT X ON CURB | 665,652.2509 | 2,179,888.5750 | 1,139.64 |
| 205 | BM / SET 3/4IN IP | 665,640.1612 | 2,180,362.3020 | 1,175.98 |

TITLE:



POST OAK BRIDGE

NORMAN, OKLAHOMA

PERSONNEL:

COOPER VAUGHN

DAWSON HUDDLESTON

KADEN VANBUSKIRK COOPER SMITH

BRADEN DAVENPORT

KELLY FARMER PRESIDENT JOE FARMER PROFESSIONAL LAND SURVEYOR PROFESSIONAL LAND SURVEYOR ADAM HINDS WYATT BISHOP JESSICA BISHOP ALLYSON BRUEGGEN STEPHANIE VILLANELLA CHASE KILE JAMIL EHTISHAM ALBERT SMITH ALEC CENICEROS MATT DAFFERN LEVI WOOD DREW KNIGHT JJ VALENTINE

PROFESSIONAL LAND SURVEYOR SENIOR CAD TECHNICIAN SENIOR CAD TECHNICIAN CAD TECHNICIAN CAD TECHNICIAN LIDAR SPECIALIST SENIOR PARTY CHIEF SURVEY PARTY CHIEF SURVEY PARTY CHIEF SURVEY PARTY CHIEF SURVEY CREW MEMBER SURVEY CREW MEMBER

SURVEY NOTES:

1) UTILITY LINES ARE SHOWN BY MAPPING THE MARKINGS IN THE FIELD PRODUCED FROM THE OKIE 811 UTILITY LOCATE TICKET #'S 24041907580417, 24041908020435, 24041908080461, 24041908130487, 24041908150511

UTILITY OWNER INFORMATION

OEC FIBER

CITY OF NORMAN JARED MATTERN 405-329-0703

JARED.MATTERN@NORMANOK.GOV

JOE ANDERSON 539-444-1026 AT&T DISTRIBUTION

JA492C@ATT.COM

MORGAN EDERER 405-217-6615 MORGAN.EDERER@OKCOOP.ORG

OG&E MATT HILL

HLLMC@OGE.COM

| | | | LEGEND | | |
|-------------|----------------------|--------------|-----------------|-------|-------------------------|
| * | BENCHMARK | Å | GAS VALVE | - | SIGN |
| ⊛ | BOLLARD | @ | GAS VENT PIPE | 99 | SPIGOT |
| ⊖ | BUSH | 0 | GATE POST | ₩ | SPRINKLER |
| Δ | CONTROL POINT | GR | GROUND ROD | SCV | SPRINKLER CONTROL VALVE |
| \boxtimes | DOWNSPOUT |) | GUY WIRE | • | TANK FILLER |
| Œ | ELECTRIC MARKER | ✡ | LIGHT | ℩ | TELEPHONE MARKER |
| (1) | ELECTRIC METER | \$ | LIGHT POLE | 0 | TELEPHONE PEDESTAL |
| € | ELECTRIC PEDESTAL | Ď | MAILBOX | T | TELEPHONE VAULT |
| E | ELECTRIC VAULT | ØЮ | MISC. MANHOLE | TD | TIE-DOWN |
| Ø | FIBER OPTIC MARKER | (11) | MONITORING WELL | TRAKS | TRANSFORMER |
| 0 | FIBER OPTIC PEDESTAL | • | PIPELINE MARKER | 0 | TREE CONIFEROUS |
| FO | FIBER OPTIC VAULT | Ø | POWER POLE | 0 | TREE DECIDUOUS |
| α | FIRE HYDRANT | PB | PULL BOX | @ | WATER METER |
| G | GAS MARKER | @ | SEWER CLEANOUT | × | WATER VALVE |
| (4) | GAS METER | SS | SEWER MANHOLE | W | WATER VAULT |

DEPICTED PROPERTY LINE

TOPOGRAPHY CERTIFICATION -

I, J. WYATT BISHOP, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS GROUND TOPOGRAPHIC SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC PLANIMETRIC SURVEY. ACCORDING TO THE OKLAHOMA MINIMUM TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING AS ADOPTED BY THE OKLAHOMA STATE BOARD OF LICENSURE FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS. THE ORIGINAL DATA WAS OBTAINED ON 2 MAY 2024 - 31 MAY 2024; THE SURVEY WAS COMPLETED ON 3 JUNE 2024: ALL COORDINATES ARE BASED ON NAD83 OKLAHOMA STATE PLANÉ, SOUTH ZONE AND ALL ELEVATIONS ARE BASED ON NAVD88.

**THIS IS A TOPOGRAPHIC SURVEY AND IS NOT A BOUNDARY SURVEY. ANY PROPERTY LINE OR RIGHT-OF-WAY INFORMATION SHOWN HEREON IS FOR REFERENCE IN DESIGNING IMPROVEMENTS AND WAS PLOTTED USING METHODS OF RELATING PROPERTY DESCRIPTIONS TO SECTION BOUNDARY LINES AND PHYSICAL EVIDENCE, HOWEVER, THIS DOES NOT CONSTITUTE A BOUNDARY SURVEY PER OKPELS MINIMUM STANDARDS OF THE PROPERTY LINES OR RIGHT-OF-WAY BEING DEPICTED.

P.L.S. #1649





| | | REVISIONS | | |
|-----|----------|-------------------------------|----|-------|
| REV | DATE | DESCRIPTION | М | APP'D |
| | 05/21/24 | TOPOGRAPHIC SURVEY - COMPLETE | ΑB | 앀 |
| 2 | 06/03/24 | ADDED TREES & TREE LINES | AB | JWB |
| | | | | |
| | | | | |
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| | | | | |
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| | | | | |
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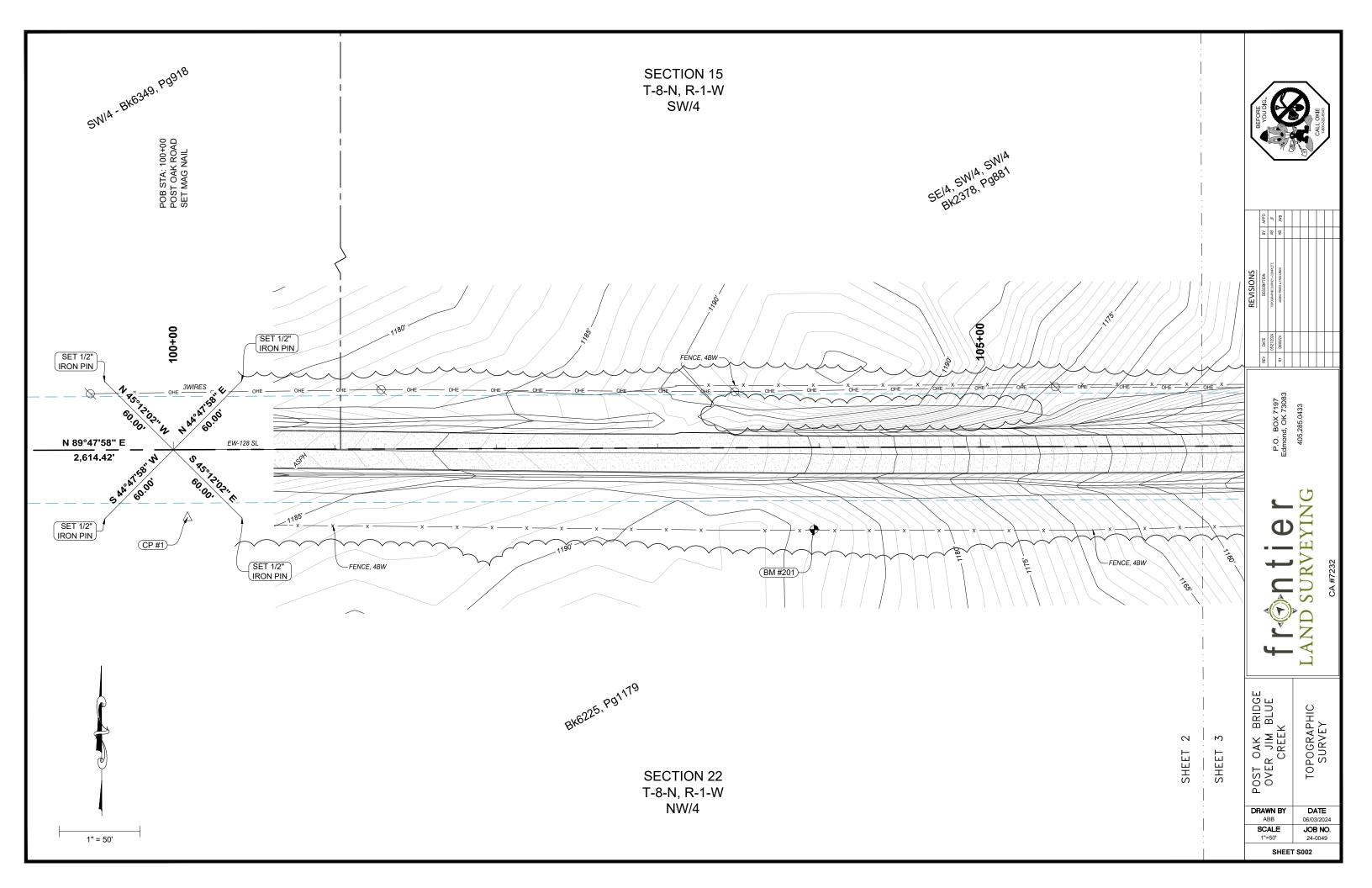
BOX 7197 Id, OK 73083 P.O. Edmon

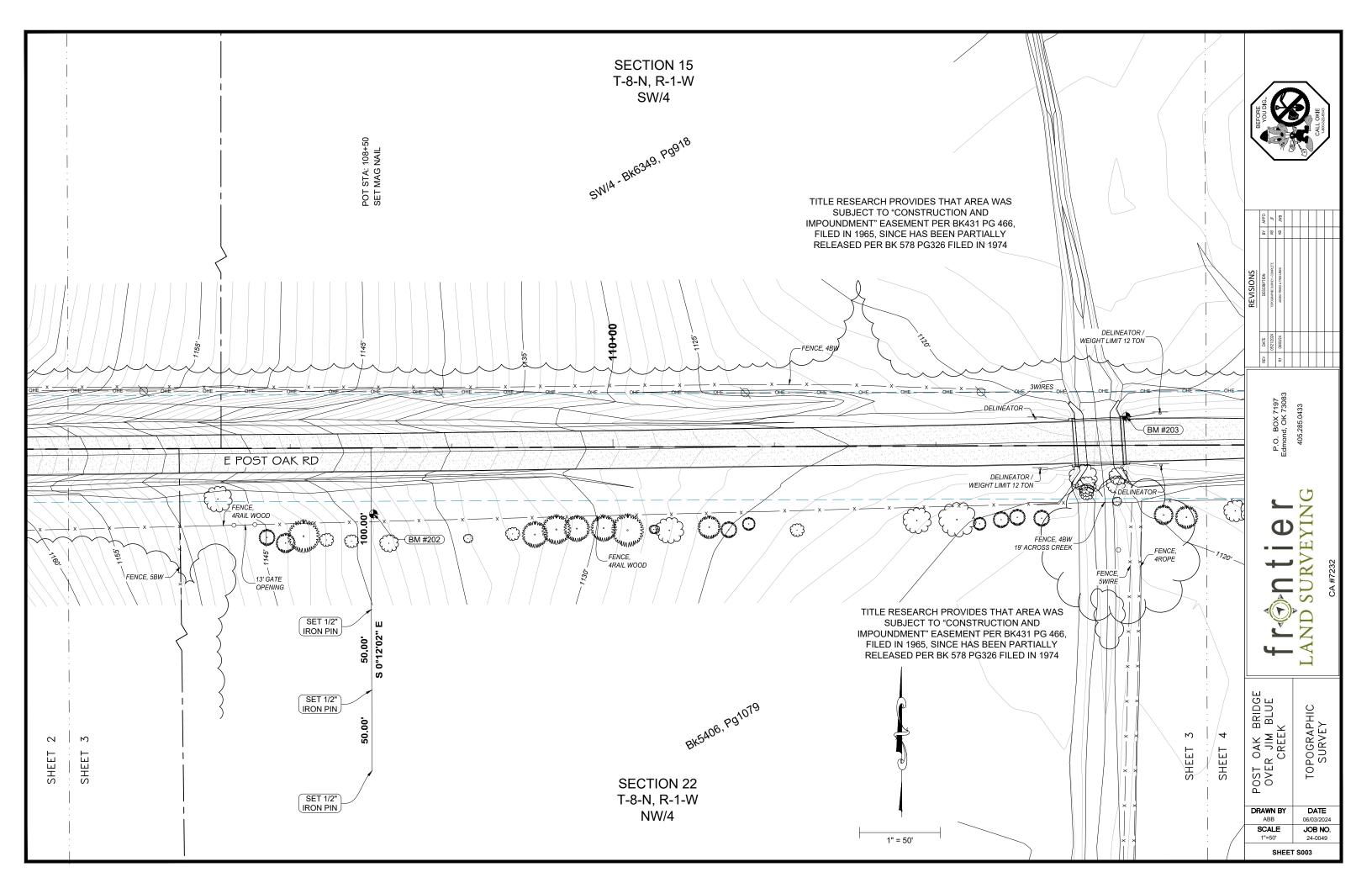


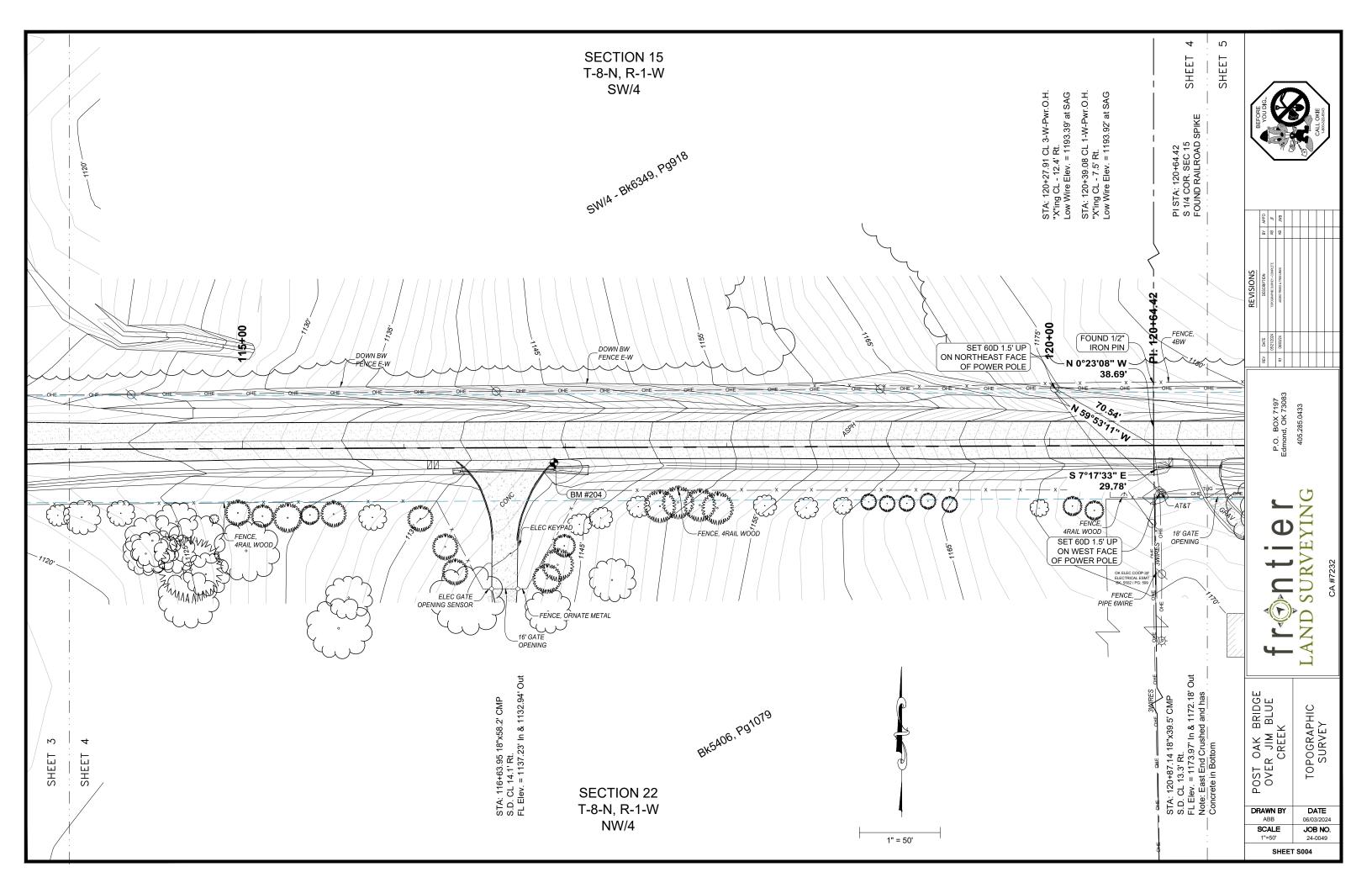
BRIDGE BLUE TOPOGRAPHIC SURVEY POST OAK BI OVER JIM B CREEK DRAWN BY DATE 06/03/2024 SCALE

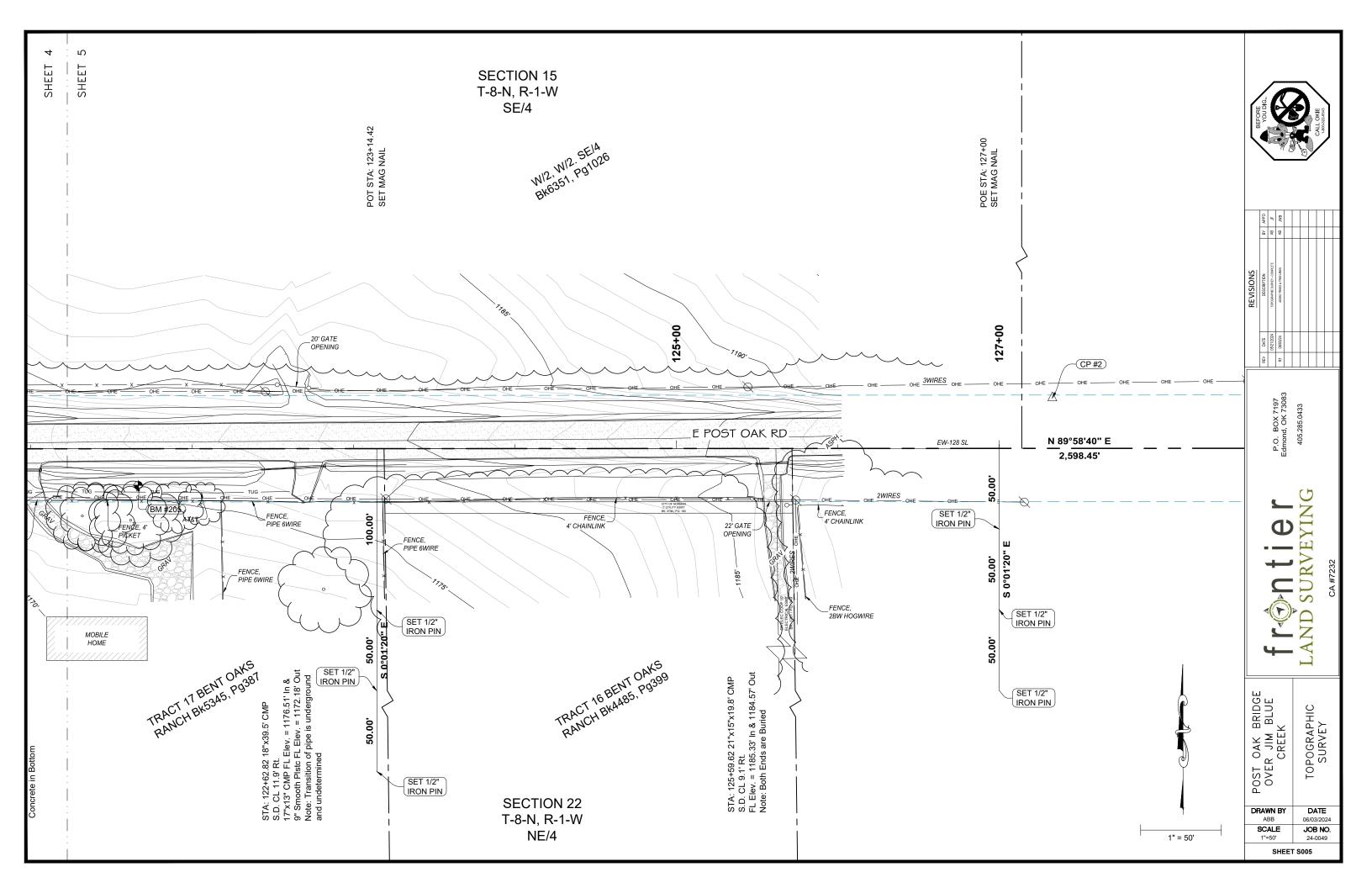
JOB NO.

SHEET S001















TOPOGRAPHIC SURVEY

06/03/2024 SCALE



P.O. BOX 7197 Edmond, OK 73083

POST OAK BRIDGE OVER JIM BLUE CREEK

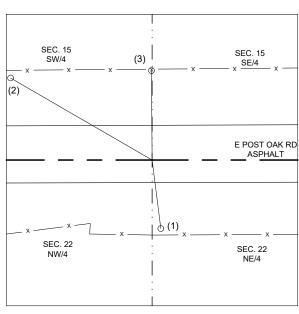
DRAWN BY JOB NO. 1"=50'

SHEET S006

(5) SEC. 16 E POST OAK RD ASPHALT SEC. 21 SEC. 22 NW/4 (3)

SW COR. SEC. 15, T-8-N, R-1-W FOUND MAG NAIL W/ M. KING LS #1271 SHINER

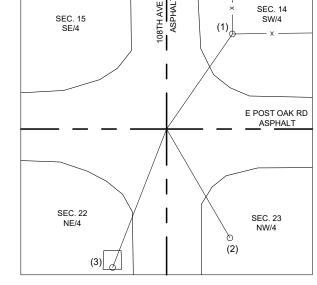
- 1) FOUND 60D NAIL IN RAILROAD TIE POST 47.00' @ N 37°53'34" E
 - 2) FOUND 1/2" IRON PIN 46.86' @ N 38°20'18" E
 - 3) FOUND 1/2" IRON PIN 41.59' @ S 34°29'25" W
 - 4) FOUND 60D NAIL IN WOOD POST 41.71' @ S 35°06'51" W
 - 5) FOUND 1/2" IRON PIN 48.21' @ N 38°35'49" W



S. 1/4 COR. SEC. 15, T-8-N, R-1-W FOUND RAILROAD SPIKE 6" BELOW SURFACE

- 1) SET 60D NAIL IN W FACE OF POWER POLE 1.5' HIGH 29.78' @ S 07°17'33" E
- 2) SET 60D NAIL IN NE FACE OF POWER POLE 1.5' HIGH 70.54' @ N 59°53'11" W

3) FOUND 1/2" IRON PIN 38.69' @ N 00°23'08" W

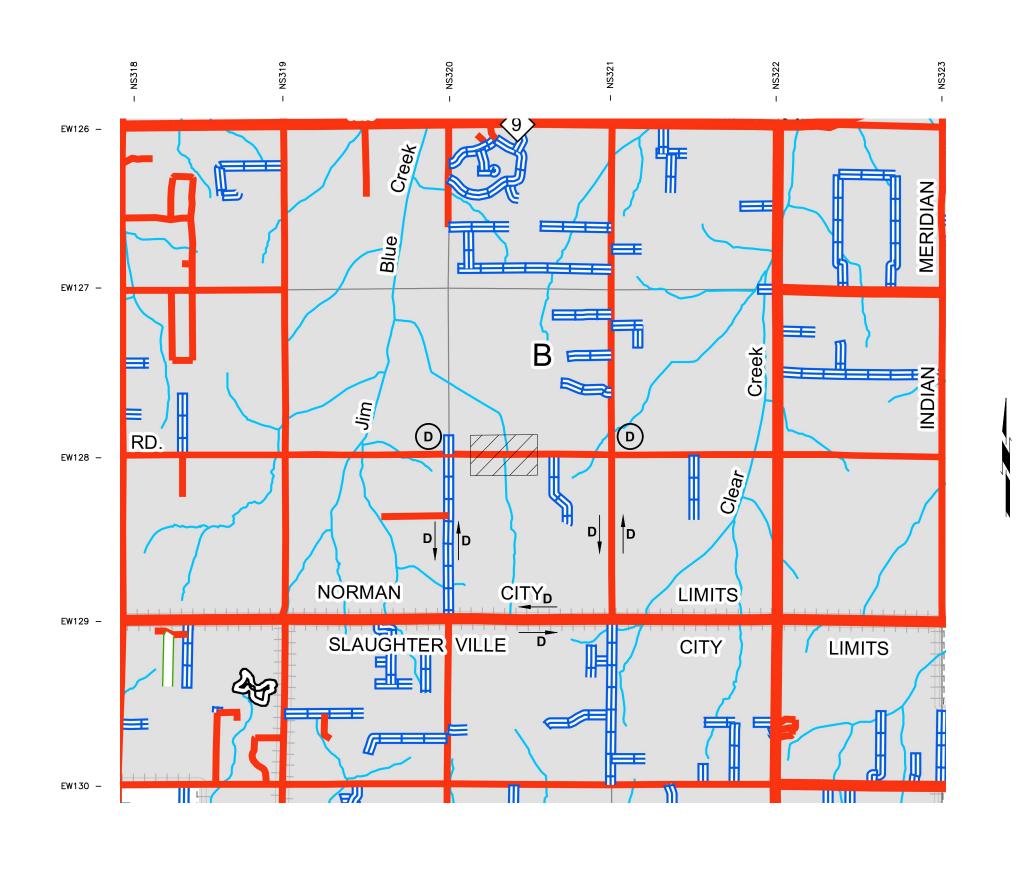


SE COR. SEC. 15, T-8-N, R-1-W PK NAIL W/ A. HENRY LS #1335 SHINER

1) FOUND 60D NAIL IN S FACE OF RAILROAD TIE CORNER POST 41.57' @ N 35°30'15" E

> 2) 60D NAIL IN W FACE OF POWER POLE 45.06' @ S 30°12'34" E

3) SET CUT "X" IN CONCRETE PAD FOR STRUCTURE 53.17' @ S 21°19'33" W







DETOUR AHEAD



DETOUR DIRECTION SIGN

WORK AREA

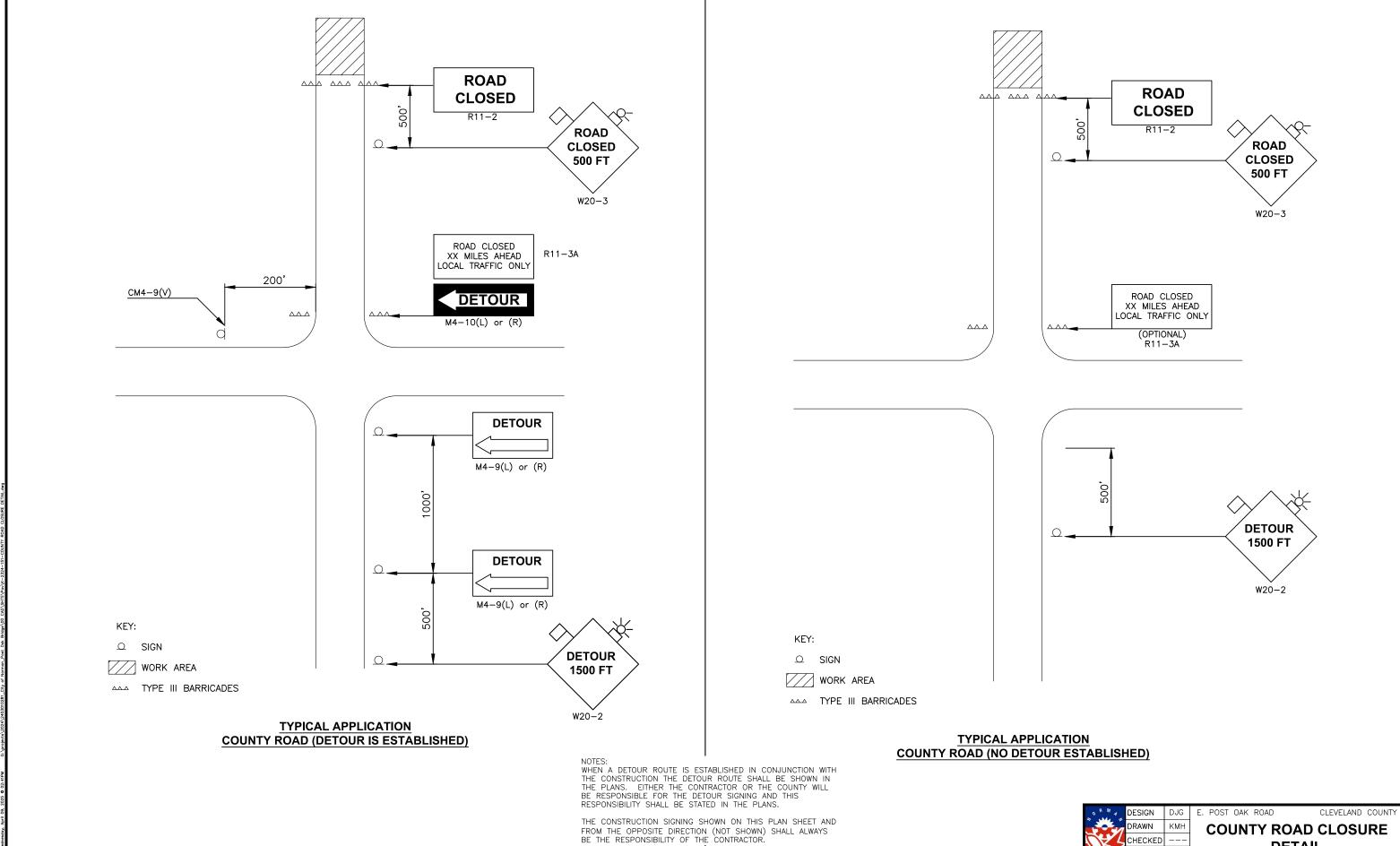
NOTE: SEE COUNTY ROAD CLOSURE DETAIL FOR SIGN DETAILS AND PLACEMENT, SHEET TOO2



E. POST OAK ROAD

CLEVELAND COUNTY

DETOUR PLAN

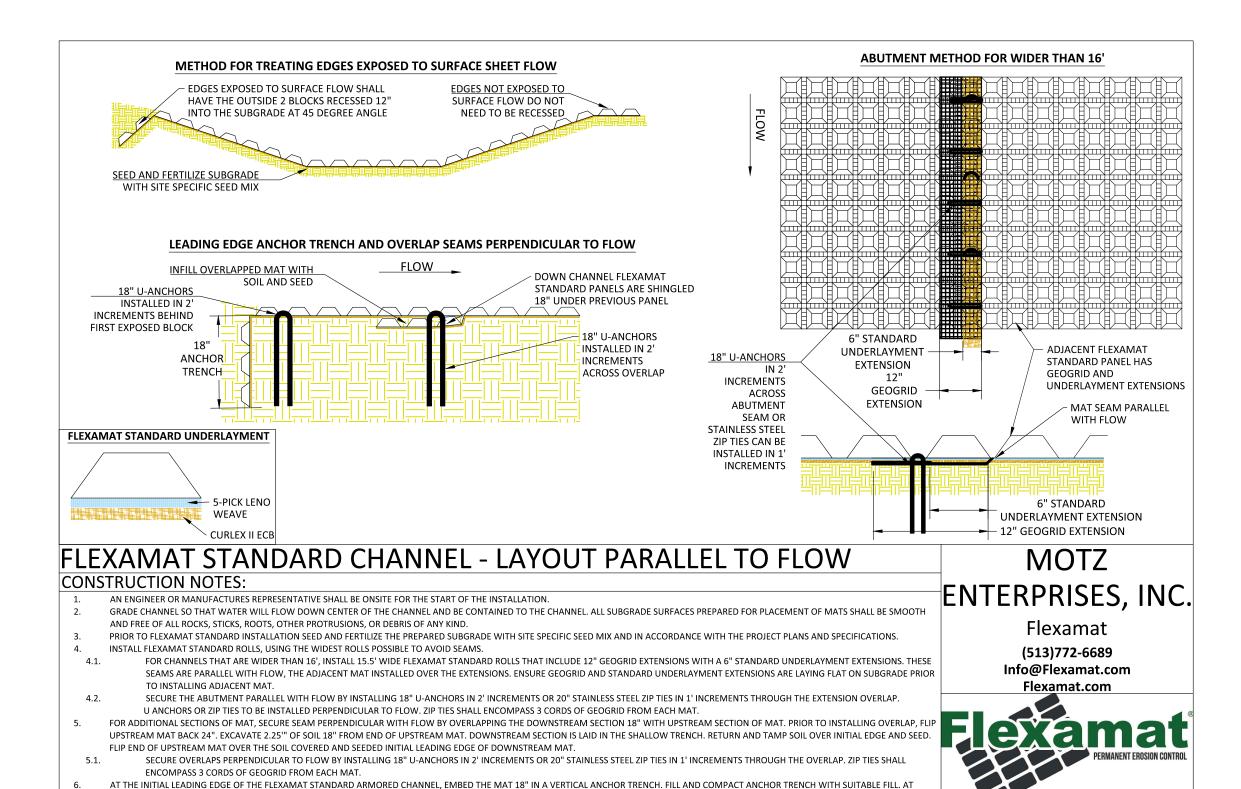


DRAWN KMH CHECKED ---**MKEC**

COUNTY ROAD CLOSURE DETAIL

PROJECT NO. <u>K-2324-151</u> SHEET NO. <u>T002</u>

DESCRIPTION DATE



ENDING EDGE OF PROTECTION, EMBED THE MAT 18" IN A TERMINATION TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL, AS DETERMINED BY THE ENGINEER OF RECORD.

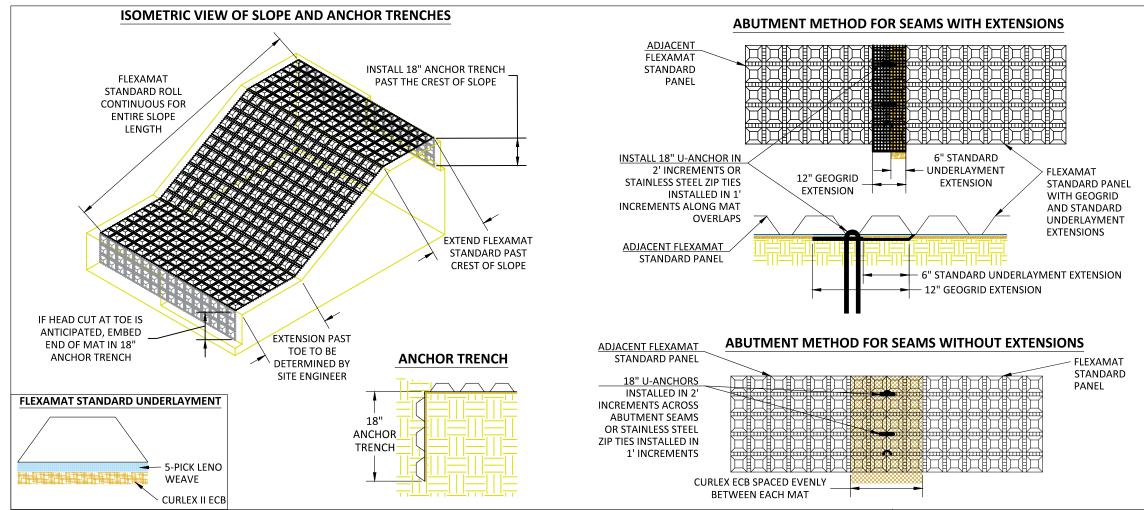


REV - 2

CLEVELAND COUNTY **FLEXAMAT** STANDARD DETAIL

(SHEET 1 OF 2) K-2324-151 SHEET NO. U001

DESCRIPTION REVISIONS DATE



FLEXAMAT STANDARD - SLOPE ARMORING

CONSTRUCTION NOTES:

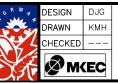
- 1. AN ENGINEER OR MANUFACTURERS REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
- 2. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND.
- 3. PRIOR TO FLEXAMAT STANDARD INSTALLATION SEED AND FERTILIZE SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
- 4. INSTALL FLEXAMAT STANDARD ROLLS THAT ARE CONTINUOUS FOR ENTIRE SLOPE LENGTH. FOR SLOPES LONGER THAN 16', USE MATS WITH EXTENSIONS CUT TO THE LENGTH OF THE SLOPE. INSTALL MATS TO THAT THE MATTING EXTENDS PAST THE CREST OF SLOPE AND INTO AN 18" ANCHOR TRENCH.
- 4.1. FOR ARMORED SLOPE LENGTHS 16' OR LESS, INSTALL CURLEX ECB EQUALLY UNDER ADJACENT MATS. SECURE SEAM WITH #3 REBAR 18" U-ANCHORS IN 2' INCREMENTS THE LENGTH OF THE ABUTMENT.
- 4.2. ARMORED SLOPE LENGTHS LONGER THAN 16', INSTALL NEXT MAT OVER EXTENSIONS.
- 5. INSTALL SUBSEQUENT MATS OVER THE GEOGRID EXTENSION AND STANDARD UNDERLAYMENT EXTENSION OF THE PREVIOUSLY INSTALLED MAT. ENSURE THE GEOGRID AND STANDARD UNDERLAYMENT EXTENSIONS ARE LAYING FLAT ON THE SUBGRADE BEFORE INSTALLING ADJACENT MAT OVER THE EXTENSIONS.
- 6. INSTALL #3 REBAR 18" U-ANCHORS IN 2' INCREMENTS ACROSS THE GEOGRID AND STANDARD EXTENSION ABUTMENT. INSTALL ANCHORS PERPENDICULAR TO THE SLOPE DIRECTLY BEHIND FIRST ROW OF BLOCKS ON THE ADJACENT MAT.
- 7. AT THE END OF THE ARMORED SLOPE, IF HEAD CUT IS ANTICIPATED, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH SUITABLE FILL.

MOTZ ENTERPRISES, INC.

Flexamat

(513)772-6689 Info@Flexamat.com





E. POST OAK ROAD

CLEVELAND COUNTY

FLEXAMAT STANDARD DETAIL (SHEET 2 OF 2)

T NO. K-2324-151 SHEET NO. U002

PLOTTED: Wednesdoy April 09 2025 @ 02:429M

