# **MEMO**

To From

CHBP Grant Review HNTB

HNTB

Cc ODOT

Subject

Kay County CHBP I-35 Plan Set and Cost Estimate

Date

November 27, 2018

Attached are preliminary 90% design plans and cost estimates for consideration in the Kay County CHBP Grant Application for the I-35 Bridge Raises for JP2443215. Please note the following items as you review:

- These plans are preliminary and not for construction. These plans are 90% complete and have been submitted for the Final Plan Field Review Meeting scheduled for December 6, 2018. 100% Plans, Specs, and Estimates are due in December 2018.
- Plans and cost estimates have been provided for JP 22432(15) I-35 Bridge Raisings, which includes eight bridge locations (Indian, Adobe, Ferguson, Chrysler, Coleman, Hartford, Highland, North) over I-35 in Kay County, Oklahoma. Also included are the plans and costs for one additional bridge location, the removal/demolition of Home Road over I-35.
- As part of the Field Assessment and corresponding memo dated 5-25-2017, it was recommended that Home Road be removed from service as it was not a good candidate for a raise considering the condition of the existing structure. This removal was subsequently approved by ODOT and later approved by the Kay County commission.
- The removal/demolition of Home Road bridge has been <u>excluded</u> from the Grant application.

OKLAHOMA NORTH ZONE (3501) NAD 83 BEARINGS ARE BASED ON STATE PLANE GRID. AND ARE NOT ASTRONOMIC.

VERTICAL DATUM: NAVD 1988

= VARIES

DESIGN DATA COUNTY ROADS

AADT 2017 = 100 AADT 2037 = 181

HORIZONTAL DATUM:

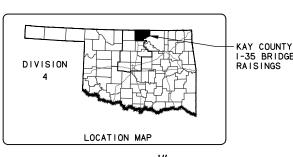
STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED

# STATE BRIDGE

FEDERAL AID PROJECT NO. J2-4432(015)SS GRADE, DRAIN, SURFACE AND BRIDGE PLANS FOR I-35 BRIDGE RAISINGS

CONTROL SECTION NO 35-36-25 STATE JOB NO. 24432(15)



CONVENTIONAL SYMBOLS PROPOSED ROAD \_\_\_\_ RAIL ROADS RANGE & TOWNSHIP SECTION LINES QUARTER SECTION LINES ——х—— FENCES GROUND LINE = =EXISTING ROADS +21.0-2% GRADE LINES -0-1-0-TELEPHONE & TELEGRAPH **-**Φ**-/**-Φ**-**POWER LINES BUILDINGS OILWELL ==1 DRAINAGE STRUCTURES - IN PLACE  $\equiv$ DRAINAGE STRUCTURES - NEW PRES. R/W RIGHT-OF-WAY LINES - EXISTING RNV RIGHT-OF-WAY LINES - NEW CONTROLLED ACCESS MAILBOX EXISTING CENTERLINE ---ss---EXISTING SANITARY SEWERS

STA 79+80.41 TO STA 84+50.00 HOME ROAD BRIDGE "H" NBI NO. 14154, LOCATION NO. 3625 2505X (DEMOLISH EXISTING BRIDGE/REGRADE DITCHES 29 I-35 STA 817+00.00 TO 823+00.00) ADOBE ROAD BRIDGE "G" 86+42.94 TO 88+19.44 (176.50') NBI NO. 15149, LOCATION NO. 3625 1601X STA 81+60.00 TO STA 86+42.94 STA 88+19.44 TO STA 93+20.00 28 BRIDGE "F" 81+32.28 TO 83+03.78 (171.50') NBI NO. 15147, LOCATION NO. 3625 1399X STA 74+05.00 TO STA 81+32.28 STA 83+03.78 TO STA 89+10.00 CHRYSLER AVE BRIDGE "E" 77+16.78 TO 78+88.28 (171.50') NBI NO. 15146, LOCATION NO. 3625 1299X STA 72+25.00 TO STA 77+16.78 STA 78+88.28 TO STA 84+50.00 COLEMAN ROAD BRIDGE "D" 77+21.86 TO 78+93.36 (171.50') NBI NO. 15145, LOCATION NO. 3625 1199X STA 71+60.00 TO STA 77+21.86 27 STA 78+93.36 TO STA 84+50.00 HARTFORD AVE. BRIDGE "C" 24+56.51 TO 26+28.01 (171.50') NBI NO. 14437, LOCATION NO. 3625 0900X STA 19+00.00 TO STA 24+56.51 STA 26+28.01 TO STA 32+00.00 HIGHLAND AVE. BRIDGE "B" 24+52.80 TO 26+24.30 (171.50') NBI NO. 14435, LOCATION NO. 3625 0799X STA 19+25.00 TO STA 24+52.80 26 STA 26+24.30 TO STA 32+00.00 BRIDGE "A" 24+53.17 TO 26+24.67 (171.50') NBI NO. 14429, LOCATION NO. 3625 0599X STA 18+40.00 TO STA 24+53.17 STA 26+24.67 TO STA 32+00.00

BRIDGE "J" 78+08.91 TO 79+80.41 (171.50')

NBI NO. 14155, LOCATION NO. 3625 2605X

STA 73+50.00 TO STA 78+08.91

INDIAN ROAD

EW 10 FW 11 FW 12 FW 21 311 316 312 313 314 315 319 320 323 324 Ş SN SN SN SN SS SS ROADWAY LENGTH \_\_\_\_\_ 8,838.00 FT. 1.673 MI. BRIDGE LENGTH \_\_\_\_\_\_1, 377.00 FT. 0.260 MI.

PROJECT LENGTH \_\_\_\_\_

EXCEPTIONS: NONE

EQUATION: SEE PLAN AND PROFILE SHEETS

#### INDEX OF SHEETS

X089-X096

COVER SHEET 0001 TYPICAL SECTIONS 2000 GENERAL NOTES (BRIDGE) ABO1 SUMMARY OF PAY QUANTITIES (BRIDGE) AB02 AR01 SUMMARY PAY QUANTITIES & NOTES (ROADWAY) AR02 SUMMARY OF QUANTITIES (ROADWAY) ATO1 SUMMARY OF PAY QUANTITIES & NOTES (TRAFFIC) SUMMARY OF QUANTITIES (TRAFFIC) AT02 CONSTRUCTION SEQUENCE NOTES (BRIDGE) B001 B002-B009 GENERAL PLAN AND ELEVATION (BRIDGE "A-G", BRIDGE "J") B010-B014 FALSEWORK SHEETS B015-B017 BOLSTER DETAILS B018-B019 APPROACH SLAB DETAILS B020 SLOPEWALL AND DRAIN DETAILS
B021-B022 HOME ROAD DEMOLITION-ROLLING ROAD BLOCK B023 HOME ROAD DEMOLITION-CROSSOVER B024-B027 HOME ROAD PLANS (INFORMATION ONLY) RO01-RO09 STORM WATER MANAGEMENT PLAN R010-R015 EROSION CONTROL SHEETS R016-R025 PLAN AND PROFILE SHEETS T001-T002 ADVANCE WARNING SIGNS (LANE CLOSURE AND SHOULDER WORK) T003 WARNING SIGNS (TYP SECTION LINE) TRAFFIC CONTROL DETAILS CROSSOVERS T004-T011 T012-T013 TRAFFIC CONTROL DETAILS ROLLING ROADBLOCK X001-X010 CROSS SECTIONS - NORTH AVE CROSS SECTIONS - HIGHLAND AVE X011-X020 X021-X031 CROSS SECTIONS - HARTFORD AVE X032-X041 CROSS SECTIONS - COLEMAN RD X042-X052 CROSS SECTIONS - CHRYSLER AVE X053-X067 CROSS SECTIONS - FERGUSON AVE CROSS SECTIONS - ADOBE ROAD X068-X077 CROSS SECTIONS - HOME ROAD X078-X088

DESCRIPTION

DATE

THE FOLLOWING ODOT STANDARD DRAWINGS ARE REQUIRED

CROSS SECTIONS - INDIAN ROAD

ROADWAY	TRAFFIC					
SSS-1-1	TCS1-1-01	TCS9-1-01	TCS19-1-01	WSD2-1-00		
TSC2-3-2	TCS2-1-00	TCS10-1-00	TCS20-1-00	WSD3-1-00		
TSD-2-0	TCS3-1-01	TCS11-1-01	THRI-1-02	DU1-1-00		
PCES-4-1	TCS4-1-01	TCS13-1-00	SKT-1-00	DU2-1-00		
RWF2-2-1	TCS5-1-00	TCS14-1-00	GHW1-1-00	SBS2-1-00		
TFL-1-1	TCS6-1-02	TCS15-1-00	GHW2-1-00	GMS1-1-00		
LECS-4	TCS7-1-02	TCS17-1-00	RSD1-1-00	SSP1-1-02		
	TCS8-1-00	TCS18-1-01	WSD1-1-00	SSA1-1-02		



# **GUY ENGINEERING**

Certificate of Authorization No. 1427 Renewal Date: June 30, 2020

DOCUMENT IS PRELIMINARY IN NATURE AND
IS NOT A
FINAL, SIGNED
AND SEALED
DOCUMENT

THIS

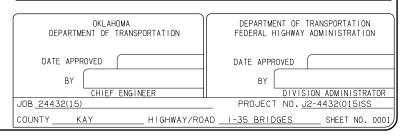
JOHN R. WORMAN, P.E. NO. 15497

THIS SEAL COVERS ALL SHEETS EXCEPT AB01-AB02, B001-B027)

Certificate of Authorization No. 1893 Renewal Date: JUNE 30, 2019

JESSE D. KUHLEN, P.E. NO. 28383 (THIS SEAL COVERS SHEETS ABO1-ABO2, B001-B027)

THIS DOCUMENT IS PRELIMINARY IN NATURE AND
IS NOT A
FINAL, SIGNED
AND SEALED DOCUMENT



SCALES. PLAN 1" = 50' PROFILE HOR. 1'' = 50'VER. 1" = 5'

LAYOUT MAP 1" = 2 MILE ——G—— EXISTING GAS LINES ---TUG--- EXISTING TELEPHONE CABLES UNDERGROUND

2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION - ENGLISH GOVERN, APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, JANUARY 4, 2010.

\_\_\_\_\_ 1.933 MI.

- 3" SUPERPAVE TYPE S3 (PG 64-22 OK

- 3" SUPERPAVE, TYPE S3 (PG 64-22 OK - 2" SUPERPAVE, TYPE S4 (PG 64-22 OK

I-35 CROSSOVER S. OF INDIAN ROAD

8" SUBGRADE

METHOD B

CENTER MEDIAN

Not To Scale

I-35 STA. 858+85.26 TO STA. 859+85.26

TOPSOIL NOTE:
THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT
BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS.
RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS
AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AFEAS I OCATED BY THE

THE GRADING LINE AS SHOWN ON THE TYPICAL IS TO THE TOP OF THE TOPSOIL, EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL QUANTITY IS INCLUDED IN THE

ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY

DISTANCE MEASURED VERTICALLY FROM EDGE OF FINISHED GRADE

TEM FOR SALVAGED TOPSOIL, LUMP SUM.

EXCEPTIONS:

NORTH AVE STA. 18+40.00 TO STA. 19+40.00 TRANSITION FROM EX. PAV'T. TO TYP. NORTH AVE STA. 22+64.90 TO STA. 23+41.90 TRANSITION FROM TYP. TO GUARDRAIL WIDENING NORTH AVE STA. 27+35.94 TO STA. 28+12.94 TRANSITION FROM GUARDRAIL WIDENING TO TYP. NORTH AVE STA. 31+00.00 TO STA. 32+00.00 TRANSITION FROM TYP. TO EX. PAVT.

HIGHLAND AVE STA. 19+25.00 TO STA. 20+25.00 TRANSITION FROM EX. PAV'T. TO TYP. HIGHLAND AVE STA. 22+64.53 TO STA. 23+41.53 TRANSITION FROM TYP. TO GUARDRAIL WIDENING HIGHLAND AVE STA. 27+35.57 TO STA. 28+12.57 TRANSITION FROM GUARDRAIL WIDENING TO TYP. RT HIGHLAND AVE STA. 28+48.07 TO STA. 29+25.07 TRANSITION FROM GUARDRAIL WIDENING TO TYP. LT HIGHLAND AVE STA. 31+00.00 TO STA. 32+00.00 TRANSITION FROM TYP. TO EX. PAVT.

W HARTFORD AVE STA. 19+00.00 TO STA. 20+00.00 TRANSITION FROM EX. PAV'T. TO TYP. W HARTFORD AVE STA. 22+68.24 TO STA. 23+45.24 TRANSITION FROM TYP. TO GUARDRAIL WIDENING W HARTFORD AVE STA. 27+39.28 TO STA. 28+16.28 TRANSITION FROM GUARDRAIL WIDENING TO TYP. W HARTFORD AVE STA. 31+00.00 TO STA. 32+00.00 TRANSITION FROM TYP. TO EX. PAVT.

COLEMAN RD STA. 71+60.00 TO STA. 72+60.00 TRANSITION FROM EX. PAV'T. TO TYP. COLEMAN RD STA. 75+33.59 TO STA. 76+10.59 TRANSITION FROM TYP. TO GUARDRAIL WIDENING COLEMAN RD STA. 80+04.63 TO STA. 80+81.63 TRANSITION FROM GUARDRAIL WIDENING TO TYP. COLEMAN RD STA. 83+50.00 TO STA. 84+50.00 TRANSITION FROM TYP. TO EX. PAV'T.

CHRYSLER AVE STA. 72+25.00 TO STA. 73+25.00 TRANSITION FROM EX. PAV'T. TO TYP.
CHRYSLER AVE STA. 75+28.51 TO STA. 76+05.51 TRANSITION FROM TYP. TO GUARDRAIL WIDENING
CHRYSLER AVE STA. 79+99.55 TO STA. 80+76.55 TRANSITION FROM GUARDRAIL WIDENING TO TYP. LT
CHRYSLER AVE STA. 80+49.55 TO STA. 81+26.55 TRANSITION FROM GUARDRAIL WIDENING TO TYP. RT
CHRYSLER AVE STA. 83+50.00 TO STA. 84+50.00 TRANSITION FROM TYP. TO EX. PAVT.

FERGUSON AVE STA. 74+05.00 TO STA. 74+55.00 TRANSITION FROM EX. PAV'T. TO TYP. RT. FERGUSON AVE STA. 75+94.01 TO STA. 76+71.01 TRANSITION FROM TYP. TO GUARDRAIL WIDENING RT FERGUSON AVE STA. 76+19.01 TO STA. 76+96.01 TRANSITION FROM TYP. TO GUARDRAIL WIDENING LT FERGUSON AVE STA. 86+77.55 TO STA. 87+54.55 TRANSITION FROM GUARDRAIL WIDENING TO TYP. FERGUSON AVE STA. 88+10.00 TO STA. 89+10.00 TRANSITION FROM TYP. TO EX. PAVT.

ADOBE RD STA. 81+60.00 TO STA. 82+60.00 TRANSITION FROM EX. PAV'T. TO TYP.

ADOBE RD STA. 84+54.67 TO STA. 85+31.67 TRANSITION FROM TYP. TO GUARDRAIL WIDENING RT

ADOBE RD STA. 83+92.17 TO STA. 84+69.17 TRANSITION FROM TYP. TO GUARDRAIL WIDENING LT

ADOBE RD STA. 89+30.71 TO STA. 90+07.71 TRANSITION FROM GUARDRAIL WIDENING TO TYP. RT

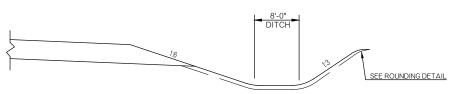
ADOBE RD STA. 89+93.21 TO STA. 90+70.21 TRANSITION FROM GUARDRAIL WIDENING TO TYP. LT

ADOBE RD STA. 92+20.00 TO STA. 93+20.00 TRANSITION FROM TYP. TO EX. PAVT.

INDIAN RD STA. 73+50.00 TO STA. 74+50.00 TRANSITION FROM EX. PAV'T. TO TYP.
INDIAN RD STA. 76+01.89 TO STA. 76+78.89 TRANSITION FROM TYP. TO GUARDRAIL WIDENING RT
INDIAN RD STA. 75+39.39 TO STA. 76+16.39 TRANSITION FROM TYP. TO GUARDRAIL WIDENING LT
INDIAN RD STA. 81+97.93 TO STA. 82+74.93 TRANSITION FROM GUARDRAIL WIDENING TO TYP. RT
INDIAN RD STA. 82+35.43 TO STA. 83+12.43 TRANSITION FROM GUARDRAIL WIDENING TO TYP. LT
INDIAN RD STA. 83+50.00 TO STA. 84+50.00 TRANSITION FROM TYP. TO EX. PAVT.

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION							
DRAWN	ΔΙΜ	09/18	GUY ENGINEERING SERVICES, INC.							
DRAWN	ALIVI	09/10								
CHECKED	BDC	09/18	TVDIO AL OFOTIONO							
APPROVED	JRW	09/18	TYPICAL SECTIONS							
SQUAD										
COUNTY	/K	ΑY	STATE JOB NO. <u>24432(15)</u> SHEET NO. <u>000</u>							

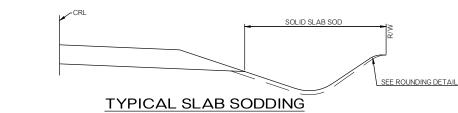
NORTH AVE STA. 18+40.00 TO STA. 24+33.17 AND STA. 26+44.67 TO STA. 32+00.00 HIGHLAND AVE STA. 19+25.00 TO STA. 24+32.80 AND STA. 26+44.30 TO STA. 32+00.00 HARTFORD AVE STA. 19+00.00 TO STA. 24+36.51 AND STA. 26+48.01 TO STA. 32+00.00 COLEMAN RD STA. 71+60.00 TO STA. 77+01.86 AND STA. 79+13.36 TO STA. 84+50.00 CHRYSLER AVE STA. 72+25.00 TO STA. 76+96.78 AND STA. 79+08.28 TO STA. 84+50.00 FERGUSON AVE STA. 74+05.00 TO STA. 81+12.28 AND STA. 83+23.78 TO STA. 89+10.00 ADOBE RD STA. 81+60.00 TO STA. 86+22.94 AND STA. 88+39.44 TO STA. 93+20.00 INDIAN RD STA. 73+50.00 TO STA. 77+88.91 AND STA. 80+00.41 TO STA. 84+50.00



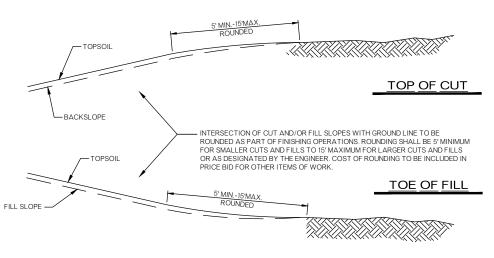
# I-35 DITCH GRADING AT HOME ROAD

Not To Scale

I-35 STA. 817+00.00 TO STA. 823+00.00 LT I-35 STA. 818+50.00 TO STA. 822+00.00 RT



Not To Scale



# ROUNDING DETAIL

Not To Scale

GUARDRAIL WIDENING (3)

NORTH AVE STA. 23+41.90 TO STA. 24+33.17

NORTH AVE STA. 26+44.67 TO STA. 27+35.94

HIGHLAND AVE STA. 26+44.30 TO STA. 27+35.57

SEE ROUNDING

DETAIL

NORTH AVE STA, 26+44.67 TO STA, 27+35.94 HIGHLAND AVE STA. 23+41.53 TO STA. 24+32.80 HIGHLAND AVE STA. 26+44.30 TO STA. 27+35.57 RT HIGHLAND AVE STA. 26+44.30 TO STA. 28+48.07 LT HARTFORD AVE STA. 23+45.24 TO STA. 24+36.51 HARTFORD AVE STA. 26+48.01 TO STA. 27+39.28 COLEMAN RD STA. 76+10.59 TO STA. 77+01.86 COLEMAN RD STA. 79+13.36 TO STA. 80+04.63 CHRYSLER AVE STA. 76+05.51 TO STA. 76+96.78 CHRYSLER AVE STA. 79+08.28 TO STA. 79+99.55 LT CHRYSLER AVE STA. 79+08.28 TO STA 80+49.55 RT FERGUSON AVE STA, 76+71.01 TO STA, 81+12.28 RT FERGUSON AVE STA. 76+96.01 TO STA. 81+12.28 LT FERGUSON AVE STA. 83+23.78 TO STA. 86+77.55 ADOBE RD STA. 85+31.67 TO STA. 86+22.94 RT ADOBE RD STA. 84+69.17 TO STA. 86+22.94 LT ADOBE RD STA. 88+39.44 TO STA. 89+30.71 RT ADOBE RD STA. 88+39.44 TO STA. 89+93.21 LT INDIAN RD STA. 76+78.89 TO STA. 77+88.91 RT INDIAN RD STA. 76+16.39 TO STA. 77+88.91 LT INDIAN RD STA. 80+00.41 TO STA. 81+97.93 RT INDIAN RD STA. 80+00.41 TO STA. 82+35.43 LT

I-35 BRIDGE RAISINGS

### **GENERAL NOTES**

SPECIFICATIONS:

COMPLY WITH THE REQUIREMENTS OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION 2009 STANDARD

RECORDED BY THE PLANS AND 2009 SPECIAL PROVISION SPECIFICATIONS OF HIGHWAY CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND 2009 SPECIAL PROVISIONS.

THE PRIMARY WORK TO BE PERFORMED AT COUNTY ROAD BRIDGES "A" THROUGH "G" AND "J" OVER I-35 CONSISTS

- INSTALL TRAFFIC CONTROL ON I-35.
- INSTALL FALSEWORK ON SUBSTRUCTURE ELEMENTS.
- INSTALL DETOUR ROUTE AND CLOSE COUNTY BRIDGE. INSTALL DECK CONTAINMENT SYSTEM.
- RAISE BRIDGE. SEE RECOMMENDED BRIDGE RAISE SEQUENCE NOTES.
- INSTALL FILTER FABRIC AND CLSM BACKFILL BEHIND ABUTMENTS.
- APPLY SPECIAL CONCRETE FINISH TO PREPARED SURFACES.
- REPLACE SLOPEWALLS AND SLOPEDRAINS AS NOTED IN THE PLANS. CONSTRUCT NEW APPROACH SLABS AND
- REGRADE COUNTY ROAD APPROACHES.
- APPLY FLOOD COAT TO BRIDGE DECK.

THE PRIMARY WORK TO BE PERFORMED AT HOME ROAD BRIDGE "H" CONSISTS OF THE FOLLOWING

- INSTALL TRAFFIC CONTROL ON I-35
- CLOSE HOME ROAD

REMOVE HOME ROAD BRIDGE USING ONE OF THE DEMOLITION OPTIONS PROVIDED IN THE PLANS

SEE TRAFFIC CONTROL PLANS FOR MAINTENANCE OF TRAFFIC ALONG 1-35 DURING THE BRIDGE RAISES AND DEMOLITION. BID ALTERNATES FOR TRAFFIC CONTROL HAVE BEEN INCLUDED

- STRUCTURAL STEEL FOR BOLSTERS AND FALSEWORK SHALL BE AASHTO M270 GR 50, Fv=50 KSI, CONCRETE-FILLED STEEL BOLSTERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123. GALVANIZE BOLSTERS AFTER
- CONCRETE FOR BOLSTERS, SLOPEWALLS AND SLOPEDRAINS SHALL BE CLASS C, F'c=3.0 KSI. CONCRETE FOR CURB, RAIL AND APPROACH SLABS SHALL BE CLASS AA, F'c=4 KSI.
- REINFORCING STEEL SHALL BE GRADE 60, Fy=60 KSI AND SHALL MEET THE REQUIREMENTS OF AASHTO M31.
- WELDING SHALL BE IN CONFORMANCE WITH AWS D1.5.

VERIFICATION OF EXISTING CONDITIONS:
THE EXISTING BRIDGES. APPROACHES AND UNDERPASS WERE ORIGINALLY CONSTRUCTED UNDER OKLAHOMA DEPARTMENT OF TRANSPORTATION (ODOT) FEDERAL AID PROJECT NOS. 1-456 (32) FOR BRIDGES "A" - "C", 1-456 (6) FOR BRIDGES "D" - "G", AND 1-456 (3) FOR BRIDGES "H" AND "J". ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. A CONDITION SURVEY SHALL BE PERFORMED WITH THE ENGINEER AT EACH BRIDGE LOCATION. THE PURPOSE OF THIS WILL BE TO IDENTIFY THE EXISTING CONDITIONS PRIOR TO THE BRIDGE RAISE.

THE BIDDERS AND CONTRACTOR ARE RESPONSIBLE FOR FULLY UNDERSTANDING THE NATURE OF THE WORK AND THE CONDITIONS UNDER WHICH THE WORK WILL BE PERFORMED. THE CONTRACTOR SHALL ADOPT METHODS CONSISTENT WITH GOOD CONSTRUCTION PRACTICE AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGING THE EXISTING BRIDGES AND I-35 UNDERPASSES BELOW. ANY DAMAGE TO THE EXISTING BRIDGES OR UNDERPASSES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.

FIELD VERIFY SUBSTRUCTURE DIMENSIONS AT ALL BRIDGE LOCATIONS AND INSPECT STEEL BEARING PLATES AT BRIDGE "J" PRIOR TO FABRICATION OF BOLSTERS.

SURVEYING AND CONSTRUCTION STAKING:
THE CONTRACTOR WILL BE REQUIRED TO CONDUCT ALL SURVEYING AND CONSTRUCTION STAKING NECESSARY FOR COMPLETION OF THE PROJECT OR AS DIRECTED BY THE ENGINEER. THE SURVEYING AND CONSTRUCTION STAKING REQUIRED FOR THE COMPLETION OF THE PROJECT INCLUDES, BUT MAY NOT BE LIMITED TO THE FOLLOWING:

- ESTABLISHING HORIZONTAL CONTROL INCLUDING THE STAKING OF CENTERLINE BRIDGE AND APPROACH ROADWAY AND ASSIGNING STATIONING AS DIRECTED BY THE ENGINEER.
- ESTABLISHING VERTICAL CONTROL
- MEASURING THE ELEVATIONS ALONG THE TOP OF THE EXISTING BRIDGE DECK SLAB AT CENTERLINE ON COUNTY ROADS AND AT THE TOP OF EXISTING ABUTMENT AND PIER CAPBEAMS.
- MEASURING THE ELEVATIONS ALONG EXISTING I-35 ROADWAY AT CENTERLINE, EDGES OF DRIVING LANES AND EDGES OF SHOULDERS
- MEASURING AND SETTING CONSTRUCTION STAKES AS NECESSARY FOR CONDUCTING THE GRADING AND SURFACING WORK ON THE APPROACH ROADWAYS.

THE CONTRACTOR SHALL CALCULATE THE FINISH GRADE PROFILE ELEVATIONS. THE CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE BRIDGE RAISE. BRIDGE RAISING OPERATION(S) AND BOLSTER FABRICATION SHALL NOT COMMENCE PRIOR TO RECEIVING APPROVAL FROM THE ENGINEER.

### BRIDGE "H" GENERAL DEMOLITION NOTES:

- CONTRACTOR SHALL BE RESPONSILBLE FOR PREVENTING ANY DEBRIS FROM FALLING ON THE ROADWAY WHILE
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE FALSEWORK TOWER DESIGN AND STABILITY THROUGHOUT
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CRANE RIGGING, STABILITY OF THE CRANE AND STABILITY OF THE PICK DURING DEMOLITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE CONCRETE SEGMENTS BEING REMOVED.
- MAXIMUM FALSEWORK TOWER REACTIONS INCLUDE A DEAD LOAD FACTOR OF 1.25.

#### BRIDGE "H" GENERAL DEMOLITION NOTES: "CONTINUED"

- FALSEWORK TOWER LOCATIONS WERE ASSUMED AS SHOWN IN THE PLANS. ACTUAL FALSEWORK TOWER LOCATIONS, REACTIONS AND DESIGN ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF ACTUAL FALSEWORK TOWER LOCATIONS IN THE LONGITUDINAL DIRECTION OF THE BRIDGE VARY FROM WHAT IS SHOWN, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE REVISED FALSEWORK TOWER REACTIONS AND THE BRIDGE STABILITY DURING REMOVAL. SEE NOTE "FALSEWORK AND JACKING" ON THIS SHEET FOR DESIGN
- THE BRIDGE HAS NOT BEEN CHECKED FOR ANY CRANE LOADING OR OTHER EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EQUIPMENT ON THE BRIDGE. NO MATERIAL WILL BE ALLOWED TO BE STORED

#### REMOVAL OF BRIDGE ITEMS:

THE PAY ITEM "REMOVAL OF BRIDGE ITEMS SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE FOLLOWING ITEMS FROM THE EXISTING BRIDGES:

- EXISTING NEOPRENE BEARING PADS
- EXISTING SLOPEWALLS AND SLOPEDRAINS

WHEN MAKING REMOVALS ON THE EXISTING BRIDGES, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION NECESSARY TO PREVENT DAMAGING THE REMAINING COMPONENTS OR ANY NEW CONSTRUCTION ATTACHED TO THE BRIDGES. ANY COMPONENT OF THE EXISTING BRIDGES OR NEW CONSTRUCTION ATTACHED TO THE BRIDGES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR COMPLETELY REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION. OF THE ENGINEER. THE ENGINEER WILL DETERMINE IF THE COMPONENT CAN BE SATISFACTORILY REPAIRED OR IF THE COMPONENT SHALL BE COMPLETELY REPLACED.

SEE "REMOVAL OF UNSOUND CONCRETE" NOTES ON THIS SHEET FOR REMOVAL OF EXISTING CURBS AND RAILS

ALL COSTS NECESSARY TO COMPLETE THE WORK AS SPECIFIED OR AS SHOWN IN THE PLANS INCLUDING THE COST OF SAWING, CUTTING, GRINDING, DEMOLITION, CONTAINMENT AND REMOVAL OF DEBRIS, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LUMP SUM OF "REMOVAL OF BRIDGE ITEMS.

#### CONTAINMENT OF FALLING OBJECTS

AT ALL TIMES DURING THE PROJECT, THE CONTRACTOR SHALL PROTECT TRAFFIC AND THE DRIVING LANES AND SHOULDERS ON THE UNDERPASSES BELOW THE BRIDGE FROM ANY AND ALL FALLING OBJECTS INCLUDING REMOVED MATERIAL, NEW MATERIAL, EQUIPMENT, TOOLS AND DEBRIS. ALL COSTS TO PROTECT THE UNDERPASSES BELOW THE BRIDGE INCLUDING THE COST OF ALL PROTECTIVE MEASURES AND/OR CONTAINMENT STRUCTURES, MATERIAL, LABOR EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

#### FALSEWORK AND JACKING

A DESIGN AND PLAN FOR ALL FALSEWORK AND JACKING USED ON THE PROJECT SHALL BE SUBMITTED TO THE BRIDGE ENGINEER OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION. THE DESIGN AND PLAN SHALL INCLUDE LAYOUTS. DETAILS AND STRUCTURAL CALCULATIONS FOR ALL FALSEWORK AND JACKING. ALL FALSEWORK SHALL BE DESIGNED USING A MINIMUM LOAD FACTOR OF 1.25 \* DEAD LOAD, BRIDGE RAISE FALSEWORK INCLUDES BUT IS NOT LIMITED TO: HYDRAULIC JACKS, TRANSFER BEAM, BRACKETS, ADHESIVE ANCHOR BOLTS, AND THROUGH BOLTS. BRIDGE DEMOLITION FALSEWORK INCLUDES, BUT IS NOT LIMITED TO, TEMPORARY FALSEWORK TOWERS. THE SUBMITTED DESIGNS AND PLANS SHALL BE

DESIGNED STONED AND SEATED BY AN OKLAHOMA LICENSED ENGINEER.

THE PLAN AND STRUCTURAL CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, OR THE AASHTO LIPTO BRIDGE DESIGN SPECIFICATIONS, AND/OR THE AASHTO BRIDGE TEMPORARY WORKS SPECIFICATION AND SECTION 502 OF THE STANDARD SPECIFICATIONS. NOTINSTAN LATION OF EAR SEWORK OR JACKIMO SHALL BEGINVINTH THE SOME AAS RECEIVED ARPROVAL DE THE SUBMITTED PLAN FROM THE BRIDGE ENGINEER. ALL COSTS TO DEVELOP THE DESIGNS AND PLANS FOR THE FALSEWORK AND JACKING INCLUDING THE COST OF ALL PROFESSIONAL SERVICES SHALL BE INCLUDED IN THE PRICE BID PER LUMP SUM OF "FALSEWORK AND JACKING."

FOR THE BRIDGE RAISINGS, THE BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE HAS BEEN CHECKED BASED ON THE JACKING LOCATIONS PROVIDED. FOR THESE CALCULATIONS, ASSUMED EXISTING CONCRETE STRENGTH F'c = 2.5 KSI AND REINFORCING STEEL STRENGTH Fy = 40 KSI. IF DIFFERENT LOCATIONS OR NUMBER OF JACKS ARE USED, THE CONTRACTOR SHALL PROVIDE THE LAYOUT, DETAILS, AND STRUCTURAL CALCULATIONS DESIGNED, SIGNED AND SEALED BY AN OKLAHOMA LICENSED ENGINEER

THE CONTRACTOR SHALL SUBMIT THE PROPOSED BRIDGE RAISE SEQUENCE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF FALSEWORK.

BRIDGE "A" THROUGH "G" PERMANENT BOLSTERS:
THE EXISTING NEOPRENE BEARING PADS SHALL BE REMOVED AFTER LIFT-OFF. ABUTMENT AND PIER BEARING SURFACES SHALL BE CLEANED WITH A WIRE BRUSH AND ALL LOOSE DEBRIS SHALL BE REMOVED. IF ANY PROTRUSIONS EXIST, THEY SHALL BE GROUND SMOOTH, RECESSES OR SPALLS LARGER THAN 4" DIAMETER MAY NEED TO BE REPAIRED BY A HIGH EARLY STRENGTH GROUT AS APPROVED BY THE ENGINEER. THE EXISTING NEOPRENE BEARING PADS SHALL BE REPLACED WITH PERMANENT BOLSTER WITH NEW NEOPRENE BEARING PADS AFFIXED TO THE BOLSTERS PRIOR TO INSTALLATION. SEE PERMANENT BOLSTER TYPE 1 DETAILS FOR MORE INFORMATION.

PERMANENT BOLSTERS HAVE BEEN DESIGNED TO RESIST SEISMIC LATERIAL FORCES OF 25% OF THE DEAD LOAD

PRIOR TO BEGINNING FALSEWORK INSTALLATION. THE STEEL BEARING PADS SHALL BE VISUALLY INSPECTED TO DETERMINE IF SECTION LOSS HAS OCCURRED. IF STEEL BEARING PLATES EXHIBIT SECTION LOSS, NOTIFY THE ENGINEER THE PERMANENT BOLSTER SHALL BE INSTALLED ACCORDING TO TYPE 2 DETAILS. THE STEEL BEARING PLATES SHALL BE CLEANED WITH A WIRE BRUSH AND ALL LOOSE DEBRIS REMOVED AFTER LIFT-OFF.

PERMANENT BOLSTERS HAVE BEEN DESIGNED TO RESIST SEISMIC LATERIAL FORCES OF 25% OF THE DEAD LOAD

### ANCHORAGE INTO EXISTING CONCRETE:

DRILLING INTO THE EXISTING CONCRETE TO INSTALL NEW REINFORCING AND FALSEWORK SHALL BE ACCOMPLISHED WITHOUT CUTTING ANY EXISTING REINFORCING STEEL BARS IN THE EXISTING CONCRETE. PRIOR TO DRILLING, THE CONTRACTOR SHALL LOCATE AND MARK THE EXISTING REINFORCING STEEL BARS WITH NONDESTRUCTIVE TOOLS, EQUIPMENT AND METHODS APPROVED BY THE ENGINEER IF ANY EXISTING REINFORCING STEEL BARS ARE ENCOUNTERED. DURING DRILLING, THE DRILLING SHALL CEASE AND THE ENGINEER SHALL BE NOTIFIED. UPON APPROVAL BY THE ENGINEER PROCEED WITH DRILLING THE HOLE OR RELOCATING THE HOLE TO CLEAR THE REINFORCEMENT. NEW REINFORCING SHALL BE ANCHORED INTO EXISTING CONCRETE PER SECTION 509.04D.3.

ALL COSTS TO ANCHOR THE NEW REINFORCING AND FALSEWORK INTO THE EXISTING CONCRETE OF THE BRIDGE AS SHOWN IN THE PLANS INCLUDING THE COST OF LOCATING THE EXISTING CONCRETE REINFORCING STEEL BARS, DRILLING, REPAIRING DRILL HOLES, EPOXY ADHESIVE, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SY OF "(PL) REPAIR BRIDGE ITEMS" AND PER LUMP SUM OF "FALSEWORK AND JACKING.

APPROACH SLABS:
APPROACH SLAB CONSTRUCTION SHALL CONFORM TO SECTION 504. CLASS AA CONCRETE SHALL BE USED IN THE

SLOPEWALLS AND SLOPEDRAINS:

THE EXISTING SLOPEWALLS AND SLOPEDRAINS SHALL BE REMOVED AND REPLACED WITH NEW SLOPEWALLS AND SLOPEDRAINS AS SHOWN IN THE PLANS. SEE THE GENERAL NOTE "REMOVAL OF BRIDGE ITEMS" FOR ADDITIONAL INFORMATION. CLASS A CONCRETE SHALL BE USED IN THE SLOPEWALLS AND SLOPEDRAINS.

SEE SLOPEWALL AND DRAIN DETAILS FOR ADDITIONAL INFORMATION REGARDING PAY ITEMS.

PERFORATED AND NON-PERFORATED PIPE UNDERDRAIN:

ITEMS "6" PERFORATED UNDERDRAIN PIPE ROUND" AND "6" NON-PERFORATED UNDERDRAIN PIPE ROUND" ARE INCLUDED AS PART OF THE ABUTMENT UNDERDRAIN AND SLOPEWALL UNDERDRAIN SYSTEMS. INSTALLATION SHALL BE AS SHOWN IN THE PLANS. FOR ADDITIONAL DETAILS AND NOTES, SEE THE SLOPEWALL AND DRAIN DETAILS SHEET.

REVISIONS

REMOVAL OF EXISTING BRIDGE
THE EXISTING BRIDGE NBI NO. 14154, HOME RD. OVER I-35, NOTED IN THE PLANS AS BRIDGE "H" SHALL BE REMOVED. DEMOLITION ALTERNATIVES HAVE BEEN PROVIDED IN THE PLANS AND ARE RELATED TO THE TYPE OF TRAFFIC CONTROL SELECTED, ROLLING ROADBLOCK OR CROSSOVER. ALL WORK AND EQUIPMENT NECESSARY FOR THE REMOVAL OF THE BRIDGE SHALL BE INCLUDED IN THE PRICE BID PER LUMP SUM OF "REMOVAL OF EXISTING BRIDGE".

ALL MATERIALS REMOVED WITH THE DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

ALL SUBSTRUCTURE SHALL BE REMOVED TO 2 FEET MINIMUM BELOW THE PROPOSED GROUND LINE AND BACKFILLED TO THE PROPOSED GROUND LINE. SEE THE ROADWAY PLANS FOR GRADING LIMITS AND PROPOSED GROUND LINE.

REMOVAL OF UNSOUND CONCRETE:

REMOVAL OF UNSOUND CONCRETE FROM THE CURB AND RAIL WILL BE REQUIRED. LIMITS SHALL BE DETERMINED BY THE ENGINEER IN FIELD PRIOR TO JACKING OPERATIONS. ADDITIONAL QUANTITIES IDENTIFIED DURING THE CONDITION SURVEY SHALL BE PAID FOR AS DIRECTED BY THE ENGINEER. ANY ADDITIONAL QUANTITIES IDENTIFIED AS A RESULT OF DAMAGE SUSTAINED DURING JACKING SHALL BE AT NO ADDITIONAL COST TO THE OWNER. PRIOR TO REMOVING ANY AREAS OF UNSOUND CONCRETE, A SAW OR CHIPPING TOOL SHALL BE USED TO CUT THE PERIMETER OF THE AREA TO A DEPTH OF AT LEAST ONE (1) INCH. THE CUTS SHALL BE MADE APPROXIMATELY PERPENDICULAR TO THE EXISTING SURFACE AND PARALLEL TO THE LINES OF THE STRUCTURE, ALL CONCRETE SHALL BE REMOVED WITHIN THE CUT PERIMETER, AFTER REMOVAL OF ALL CONCRETE, THE NEWLY EXPOSED CONCRETE SURFACES SHALL BE SAND-BLASTED OR WATER-BLASTED TO REMOVE ALL CONCRETE RESIDUE AND LOOSE PARTICLES, AND ALL EXPOSED REINFORCING STEEL SHALL BE SAND-BLASTED TO REMOVE RUST. REMOVAL AND REPAIR OF THE CURB AND RAIL IS INCLUDED IN THE BRIDGE PAY ITEM FOR "(PL) REPLACE BRIDGE ITEMS"

DECK CONCRETE REMOVAL IS SPECIFIED AT BRIDGE "G". DECK CONCRETE SHALL BE REMOVED UNTIL SOUND CONCRETE IS REACHED. LIMITS OF DECK REPAIR SHALL BE DETERMINED BY THE FIELD ENGINEER. A MAXIMUM AREA OF 12' X 24' IS ASSUMED BASED ON THE MOST RECENT FIELD REPORT. THE REPAIR TYPE SHALL BE CLASS B AND SHALL BE PAID FOR AS "CLASS B BRIDGE DECK REPAIR". DECK REPAIR SHALL CONFORM TO SECTION 513.

ALL CONCRETE REMOVALS SHALL BE ACCOMPLISHED WITH HAND TOOLS OR POWER-DRIVEN HAND TOOLS. NO VEHICLE

MOUNTED TOOLS OR EQUIPMENT WILL BE ALLOWED TO MAKE ANY REMOVALS. ALL JACK HAMMER TOOLS SHALL BE OPERATED AT ANGLES NO GREATER THAN  $45^{\circ}$  FROM THE REPAIR SURFACES. THE USE OF ANY TOOLS THAT RESULTS IN EXCESSIVE REMOVAL OF OR DAMAGE TO THE SOUND CONCRETE AS DETERMINED BY THE ENGINEER WILL NOT BE ALLOWED. A LIST OF ALL TOOLS THAT WILL BE USED TO MAKE THE CONCRETE REMOVALS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, NO TOOL SHALL BE USED TO MAKE THE CONCRETE REMOVALS UNTIL IT HAS BEEN APPROVED BY THE ENGINEER. ALL BLASTING EQUIPMENT SHALL BE HAND-HELD AND SATISFY SECTION 513.03.A OF THE STANDARD SPECIFICATIONS. ALL MATERIALS REMOVED FROM THE EXISTING BRIDGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

CLSM BACKFILL SHALL BE PLACED BEHIND THE ABUTMENTS AS SHOWN IN THE PLANS AND SHALL MEET THE REQUIREMENTS OF SECTION 701.19 OF THE CONSTRUCTION SPECIFICATIONS. SEE ALSO THE SLOPEWALL AND DRAIN DETAILS FOR ADDITIONAL LIMITS.

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CONCRETE SURFACE FINISH FOR STRUCTURES: CONCRETE SURFACE FINISH SHALL MEET THE REQUIREMENTS OF SECTION 737 OF THE CONSTRUCTION SPECIFICATIONS. COLOR OF APPLICATION SHALL BE "XXX".

LIMITS OF SURFACE FINISH SHALL INCLUDE THE NORTH AND SOUTH BRIDGE SLAB FASCIAS, THE UNDERSIDE OF THE SLAB, THE EXPOSED ABUTMENT AND WINGWALL SURFACES, AND THE PIERS

CONCRETE SURFACE REPAIR BY SEALING:
ALL BRIDGE ROADWAY SURFACES SHALL BE SEALED WITH A FLOOD COAT PER SECTION 523. LIMITS OF ROADWAY SEALING SHALL BE THE CLEAR ROADWAY WIDTH, AS INDICATED ON THE PLANS, AND THE FULL LENGTH OF THE BRIDGE.

NEOPRENE AND COTTON FIBER REINFORCED PADS:
NEOPRENE PADS SHALL BE PLAIN ELASTOMERIC PADS OF DUROMETER 60.

COTTON FIBER REINFORCED PADS CAN BE "FABREEKA" OR APPROVED EQUIVALENT PADS SHALL BE ATTACHED TO TYPE I BOLSTER, PRIOR TO INSTALLATION WITH ADHESIVE THAT IS RECOMMENDED BY

> BRIDGE "Δ" - ".!" COUNTY ROADS OVER I-35

KAY COUNTY

GENERAL NOTES (BRIDGE)

SJK 09/18

Check

SJK 08/1

KNB 08/18

STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION OKLAHOMA OBSPECENO. 24432(15) SHEETNO. ABO1

REVISIONS

DATE

REVINO. DESCRIPTION

DATE

24432 (15 0200 BRID							PAY QUANTITIES	6						
ITE	М	DESCRIPTION		UNIT	BRIDGE "A" NORTH AVE.	BRIDGE "B" HIGHLAND AVE.	BRIDGE "C" HARTFORD AVE.	BRIDGE "D" COLEMAN RD.	BRIDGE "E" CHRYSLE R AVE.	BRIDGE "F" FERGUSON AVE.	BRIDGE "G" ADOBE RD.	BRIDGE "H" HOME RD.	BRIDGE "J" INDIAN RD.	TOTALS
501 (B)	1307	SUBSTRUCTURE EXCAVATION COMMON	BR-1, BR-2	CY	55.00	65.00	75.00	45.00	45.00	55.00	55.00		40.00	435.00
501 (G)	6309	CLSMBACKFILL	BR-1, BR-2	CY	45.00	45.00	45.00	46.00	46.00	45.00	45.00		39.00	356.00
502 (C)	6116	FALSEWORK AND JACKING	BR-6	LSUM	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
504 (A)	1304	APPROACH SLAB	BR-1	SY	129.00	129.00	129.00	129.00	129.00	129.00	129.00		111.20	1,014.20
504 (B)	1305	SAW CUT GROOVING	BR-1	SY	119.40	119.40	119.40	119.40	119.40	119.40	119.40		101.60	937.40
504 (D)	6245	CONCRETE RAIL (TR4)	BR-1	LF	80.00	80.00	80.00	80.00	80.00	80.00	80.00		80.00	640.00
506 (A)	1322	STRUCTURAL STEEL	BR-1, BR-3	LB	18,680.00	17,490.00	16,110.00	20,240.00	21,160.00	19,320.00	19,320.00		20,670.00	152,990.00
507 (C)	6282	ELASTOMERIC BEARING PADS	BR-1, BR-4	EA	10.00	10.00	10.00	10.00	10.00	10.00	10.00			70.00
509	6152	SPECIAL CONCRETE FINISH	BR-1	SY	796.00	799.00	801.00	788.00	792.00	796.00	818.00		694.00	6,284.00
509 (B)	1328	CLASS A CONCRETE	BR-1, BR-7	CY	9.20	7.10	5.00	11.40	12.00	9.90	9.90		11.10	75.60
510 (C)	6138	SLOPE WALL (5")	BR-1, BR-2	SY	918.00	856.00	941.00	857.00	854.00	958.00	794.00		982.00	7,160.00
513 (B)	6019	CLASS B BRIDGE DECK REPAIR	BR-8	SY							33.00			33.00
523 (C)	6570	DECK AREA SEAL (FLOODCOATS)	BR-1	SY	457.00	457.00	457.00	457.00	457.00	457.00	471.00		381.00	3,594.00
540	4501	(PL) REPAIR BRIDGE ITEMS	BR-5	SY	1.00	3.00	5.00	2.00	1.00	1.00	1.00		1.00	15.00
545	4800	(PL) REPLACE BRIDGE ITEMS	BR-11	LSUM				1.00	1.00		1.00		1.00	1.00
613 (H)	6204	6" PERFORATED PIPE UNDERDRAIN ROUND	BR-1, BR-2	LF	249.00	238.00	253.00	236.00	234.00	253.00	227.00		252.00	1942.00
613 (I)	6207	6" NON-PERFORATED PIPE UNDERDRAIN ROUND	BR-1, BR-2	LF	92.00	92.00	92.00	92.00	92.00	92.00	92.00		92.00	736.00
619 (B)	2500	REMOVAL OF BRIDGE ITEMS	BR-9	LSUM	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00
619 (D)	1397	REMOVAL OF EXISTING BRIDGE	BR-10	LSUM								1.00		1.00

### PAY QUANTITY NOTES

- (BR-1) PAYMENT FOR THIS ITEM WILL BE BASED UPON PLAN QUANTITIES ONLY. SEE SECTION 109.01.B OF THE STANDARD SPECIFICATIONS.
- (BR-2) PAYMENT AND LIMITS FOR THESE ITEMS ARE NOTED AND SHOWN ON THE SLOPEWALL AND DRAIN DETAILS SHEET.
- (BR-3) PAYMENT FOR ITEM "STRUCTURAL STEEL" INCLUDES THE STRUCTURAL STEEL, HEADED STUD ANCHORS, AND SQUARING DIAPHRAGMS REQUIRED FOR THE PERMANENT BOLSTERS. THIS ALSO INCLUDES COST FOR GALVANIZING. BASIS OF MEASUREMENT IS FOR THE STRUCTURAL STEEL ONLY. ALL STRUCTURAL STEEL FOR FALSEWORK AND JACKING IS INCLUDED WITH THE BID ITEM "FALSEWORK AND JACKING".
- (BR-4) BASIS OF MEASUREMENT ASSUMES A SINGLE, CONTINUOUS, 2'-0" WIDE BEARING PAD AT THE TOP OF EACH BOLSTER AT ABUTMENT AND PIER AND COTTON FIBER REINFORCED PADS ON THE BOTTOM OF THE BOLSTER AS SHOWN IN THE PLANS. MULTIPLE, SHORTER 2'-0" WIDE BEARING PADS MAY BE USED IN LIEU OF A SINGLE PAD AT EACH ABUTMENT AND PIER
- (BR-5) PAYMENT FOR ITEM "(PL) REPAIR BRIDGE ITEMS" WILL BE BASED ON THE PLAN QUANTITIES. BASIS OF MEASUREMENT IN SQUARE YARDS IS TOTAL SURFACE AREA OF HOLES IN THE PIERS AND ABUTMENTS DUE TO JACKING ASSEMBLY ATTACHMENT AND OTHER MISCELLANEOUS REPAIRS TO THE PIERS OR ABUTMENTS AS NOTED IN THE PLANS. THE BID ITEM PRICE PER SQUARE YARD FOR "(PL) REPAIR BRIDGE ITEMS" SHALL INCLUDE ALL COSTS FOR MATERIALS AND INSTALLATION INCLUDING CONCRETE, GROUT, REINFORCING STEEL, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK
- (BR-6) PAYMENT FOR ITEM "FALSEWORK AND JACKING" SHALL INCLUDE ALL ITEMS NOTED IN THE GENERAL NOTES "FALSEWORK AND JACKING", "LIFTING OF EXISTING BRIDGE" AND "ANCHORAGE INTO EXISTING CONCRETE".
- BR-7) PAYMENT FOR ITEM "CLASS A CONCRETE" WILL BE BASED ON THE PLAN QUANTITIES. THIS ITEM INCLUDES THE PERMANENT STEEL BOLSTER CONCRETE ONLY.
- (BR-8) PAYMENT FOR "CLASS B BRIDGE DECK REPAIR" INCLUDES REMOVAL OF EXISTING CONCRETE TO A MINIMUM OF THE LIMITS DEFINED IN THE PLANS AND IN ACCORDANCE WITH SECTION 513 OF THE STANDARD SPECIFICATIONS. THE BID ITEM PRICE PER SQUARE YARD FOR "CLASS B BRIDGE DECK REPAIR" SHALL INCLUDE ALL COSTS FOR REMOVAL OF EXISTING CONCRETE AS WELL AS MATERIALS AND INSTALLATION INCLUDING CONCRETE, REINFORCING STEEL, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
- (BR-9) PAYMENT FOR ITEM "REMOVAL OF EXISTING BRIDGE ITEMS" INCLUDES EXISTING NEOPRENE PADS, EXISTING SLOPEDRAINS, AND EXISTING SLOPEWALLS AS DEFINED IN PLANS AND NOTES.
- (BR-10) PAYMENT FOR THIS ITEM INCLUDES THE DEMOLTION OF THE EXISTING BRIDGE AT HOME RD AS SHOWN IN THE PLANS. THIS INCLUDES THE REMOVAL OF THE EXISTING SLOPEWALLS AND SLOPEDRAINS AND ALL LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO REMOVE THE BRIDGE FOR EITHER ALTERATIVE AS PROPOSED.
- BR-11) PAYMENT FOR "(PL) REPLACE BRIDGE ITEMS" INCLUDES REMOVAL OF EXISTING CONRETE PILASTER AND RAILS AS NOTED IN THE PLANS. ALL COSTS FOR MATERIALS AND INSTALLATION INCLUDING CONCRETE, REINFORCING STEEL, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK ARE INCLUDED IN THIS PAY ITEM.

STATE OF DEPARTMENT OF TRANSPORTATION OKLAHOMA JOB PIECENO. 24432(15) SHEETNO. ABO2

# ROADWAY GENERAL CONSTRUCTION NOTES

EXISTING ROADWAY SHALL REMAIN CLOSED TO THROUGH TRAFFIC. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVES AND FIELD ENTRANCES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BARRICADES, LIGHTS, AND SIGNING WITHIN THE LIMITS OF CONSTRUCTION. ALL CONSTRUCTION SIGNING WILL BE DONE ACCORDING TO STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (CURRENT EDITION), AND AS SHOWN ON TCS STANDARD DRAWINGS.

THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION PHASING AND TRAFFIC MANAGEMENT PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION OPERATIONS BEGIN. THE TRAFFIC MANAGEMENT SHALL CONFORM TO ALL APPLICABLE STATE STANDARDS AND MUTCD GUIDELINES (LATEST REVISIONS).

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.

THE CONTRACTOR SHALL GIVE NOTICE TO THE COUNTY AND THE OKLAHOMA DEPARTMENT OF TRANSPORTATION (DIVISION 4) IN WRITING FOURTEEN (14) CALENDAR DAYS REFORE WORK REGINS ON THE PROJECT

CONTRACTOR SHALL NOT DISTURB ANY RIGHT-OF-WAY STAKES. IF ANY OF THE RIGHT-OF-WAY STAKES ARE REMOVED OR DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THEM, AT HIS OWN EXPENSE, TO THE SATISFACTION OF THE ENGINEER AND COUNTY, IN ORDER TO CONSTRUCT THE PERMANENT FENCE AT THE PROPER LOCATION.

SURFACING OF RETURNS, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE OF THE SAME MATERIAL (BASE AND SURFACE) AS THAT OF THE ABUTTING SHOULDER OF THE MAINLINE. BASE AND SURFACE THICKNESS SHALL BE THE THICKNESS SHOWN ON PLANS.

T.B.S.C. SURFACES SHALL BE SPRINKLED WITH WATER AND ROLLED WITH A PNEUMATIC ROLLER IN A MANNER APPROVED BY THE INSPECTOR

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC.... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:

THE OKIE NOTIFICATION CENTER 811 OR 1-800-522-6543 OR WWW.CALLOKIE.COM OR THE LOCAL COUNTY CLERK'S OFFICE.

DEPTH OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "ADHESIVE SPRAY METHOD", AS SPECIFIED IN SECTION 233.04B(I) OF THE STANDARD SPECIFICATIONS.

AT THE BEGINNING OF THE TURFING OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OR 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.

DO NOT DISTURB SECTION CORNERS OR  $\frac{1}{4}$  SECTION CORNERS. IF DISTURBED MONUMENTS SHALL BE RESET WITHIN 30 DAYS OF PROJECT COMPLETION BY A REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF OKLAHOMA.

# **ROADWAY PAY QUANTITY NOTES**

- (R-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITIES ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.
- (R-4) INCLUDES 200 CU. YDS, FOR DRIVEWAYS, RETURNS, DIKES, AND MISCELLANEOUS EARTHWORK,
- (R-5) AN ESTIMATED QUANTITY OF 8136 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-7) FOR TYPE A SALVAGED TOPSOIL PRICE BID TO INCLUDE COST OF 18-46-0 FERTILIZER, ESTIMATED AT 150 POLINDS PER ACRE

FOR 230(A) SOLID SLAB SOD PRICE BID TO INCLUDE COST OF 10-20-10 FERTILIZER OR APPROVED EQUIVALENT, ESTIMATED AT 200 POUNDS PER S.Y.

- (R-8) FOR SOLID SLAB SODDING PRICE BID TO INCLUDE THE COST OF WATERING, ESTIMATED AT 80 GALLONS PER S.Y.
- (R-11) THE QUANTITY ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS 12.46 ACRES.
- (R-25) ESTIMATED AT 140 LBS. PER CU. FT.
- (R-30) PRICE BID TO INCLUDE COST OF 56 GALLONS OF TACK COAT, MEETING THE REQUIREMENTS OF SECTION 407 OF THE STANDARD SPECIFICATIONS.
- (R-32) ESTIMATED AT 112 LBS. PER SQ. YD. PER 1" THICK.
- (R-41) QUANTITY INCLUDES AN ESTIMATED 10 C.Y. TO BE USED AS DIRECTED BY THE ENGINEER.
- (R-48) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.
- (R-49) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.
- R-52) INCLUDES 2% FOR GROUND MEASUREMENT.
- 1) QUANTITY INCLUDES 19 TONS FOR TEMPORARY ACCESS TO DRIVEWAYS.
- 2) ESTIMATED QUANTITY ONLY. COST TO INCLUDE TEMPORARY SEDIMENT REMOVAL. REMOVE SEDIMENT
- 3) STAKE SOD ON ALL SLOPES 1:2 OR STEEPER, AND ON ANY AREAS THAT ARE IN SUCH CONDITION THAT THERE IS DANGER OF SOD SLIPPING. PERFORM STAKING CONCURRENTLY WITH SOD PLACEMENT AND PRIOR TO TAMPING WITH SOUND WOODEN STAKES APPROXIMATELY 1 INCH SQUARE OR 1 INCH IN DIAMETER AN D NOT LESS THAN 12 INCHES IN LENGTH, OR USE METAL STAPLES IN PLACE OF WOODEN STAKES. PLACE STAKES AND STAPLE THE SOD WHERE NECESSARY, AND AS DETERMINED BY THE ENGINEER. SEE STANDARD DRAWING SSS-1-1 FOR DETAILS.
- OCONSTRUCTION STAKING SHALL INCLUDE ESTABLISH AND RE-ESTABLISH STAKING OF CENTERLINE, BENCHMARKS, AND RIGHT-OF-WAY. INCLUDES SLOPE STAKING, STRUCTURE AND BRIDGE STAKING, ROADWAY STAKING (DRIVEWAYS INCLUDED), BLUETOPPING, AND CHECKING ALIGNMENTS AND ELEVATIONIS AS PEOLIDED.
- 5) INCLUDES REMOVING AND RESETTING GUARDRAIL AS NECESSARY NEAR BOTTOM OF BRIDGE SLOPEWALLS IN ORDER TO REMOVE AND REPLACE SLOPEWALLS AS SHOWN ON BRIDGE PLANS.
- 6) SAW CUTTING IS INCLUDED IN REMOVAL OF ASPHALT.
- 7) INCLUDES REMOVAL OF CONCRETE PAD AND SAND FILLED IMPACT ATTENUATORS. SAND FILLED IMPACT ATTENUATORS TO BECOME PROPERTY OF ODOT. CONTRACTOR TO DELIVER TO ODOT. COORDINATE WITH ENGINEER FOR DELIVERY LOCATION.
- 8) DOES NOT INCLUDE BRIDGE REMOVAL AT HOME ROAD.

DESCRIPTION REVISIONS DATE

31170(15)		DAY GUANTITIES			
		PAY QUANTITIES			
U1UU ROAD	WAYTIENS	(BASE BID)			
IT	EM	DESCRIPTION	PAY NOTES	UNIT	QUANTITY
201(A)	0102	CLEARING AND GRUBBING		L. SUM	
202(A)	0183	UNCLASSIFIED EXCAVATION	R-1	C.Y.	7,285
202(D)	0184	UNCLASSIFIED BORROW	R-1, R-4	C.Y.	16,665
205(A)	4230	TYPE A - SALVAGED TOPSOIL	R-7	C.Y.	8,136
221(C)	2801	TEMPORARY SILT FENCE	2	L.F.	19,725
221(F)	0100	TEMPORARY SILT DIKE	2	L.F.	225
221(K)	0600	TEMPORARY FIBER LOG	2,3	L.F.	16
230(A)	2806	SOLID SLAB SODDING	R-7, R-8	S.Y.	60,165
233(A)	2817	VEGETATIVE MULCHING	R-11	AC.	12.46
402(E)	0225	TRAFFIC BOUND SURFACE COURSE TYPE E	1,R-25	TON	8,068
509(D)	0325	CLASS C CONCRETE	R-41	C.Y.	10
613(A)	0492	24" R.C. PIPE CLASS III		L.F.	10
613(L)	5730	24" PREFAB. CULVERT END SEC., ROUND		EA.	2
619(A)	0920	REMOVAL OF STRUCTURES & OBSTRUCTIONS	5,7-8, R-48, R-49	L. SUM	1
619(B)	4725	REMOVAL OF FENCE	R-49	L.F.	2,993
619(B)	4728	REMOVAL OF ASPHALT PAVEMENT	6,R-49	S.Y.	145
619(B)	4780	REMOVAL OF GUARDRAIL	R-49	L.F.	3,918
623(A)	0932	BEAM GUARDRAIL W-BEAM SINGLE		L.F.	2,038
623(G)	8590	GUARDRAIL END TREATMENT (31")		EA.	32
623(I)	8700	GUARDRAIL BRIDGE CONN-THRIE BEAM (31")		EA.	32
624(C)	4459	FENCE-STYLE SWF (5 BARBED WIRE)	R-52	L.F.	3,168

31170(15)		·							
	PAY QUANTITIES								
0100 ROAD\	WAYITEMS	(BID ALTERNATE A-CROSSOVER PAVING QUANTITIES)							
303(A)	2100	AGGREGATE BASE TYPE A		CY	82				
310(B)	0149	SUBGRADE, METHOD B		SY	370				
411(B)	5945	SUPERPAVE, TYPE S3 (PG 64-22 OK)	R-30, R-32	TON	124				
411(C)	5960	SUPERPAVE, TYPE S4 (PG 64-22 OK)	R-30,R-32	TON	41				

31170(15)								
PAY QUANTITIES								
0600 STAKING (BASE B	ID)							
ITEM	DESCRIPTION	PAY NOTES	UNIT	QUANTITY				
642(B) 0096	CONSTRUCTION STAKING LEVEL II	4	L. SUM	1				

31170(15)										
	PAY QUANTITIES									
0640 CONST	0640 CONSTRUCTION (BASE BID)									
ITE	EM	DESCRIPTION	PAY NOTES	UNIT	QUANTITY					
220	2800	SWPPP DOCUMENTATION AND MANAGEMENT		L. SUM	1					
641	1399	MOBILIZATION		L. SUM	1					

### BID NOTES

BID ALTERNATE A INCLUDES ROLLING BLOCKS IN BOTH DIRECTIONS ALONG I-35 FOR 8 OF THE BRIDGE LOCATIONS. HOWEVER, THE DEMOLITION OF THE BRIDGE AT HOME ROAD DOES NOT INCLUDE ROLLING ROAD BLOCKS, BUT CROSSOVERS ARE BEING UTILIZED IN THE BASE BID AT THIS LOCATION. SEE TRAFFIC CONTROL PAY QUANTITIES FOR ADDITIONAL DETAILS. BID ALTERNATE A ROADWAY PAY QUANTITIES ONLY INCLUDES QUANTITIES FOR THE CROSS OVER PAVING.

BID ALTERNATE B IS FOR A ROLLING ROAD BLOCK AT HOME ROAD DEMOLITION INSTEAD OF CROSSOVER AND FOR THE 8 BRIDGES TO BE RAISED UNDER LIVE TRAFFIC INSTEAD OF UTILIZING ROLLING ROAD BLOCKS. THIS WILL REQUIRE LANE CLOSURES INSTEAD OF ROAD BLOCKS. SEE TRAFFIC CONTROL PAY QUANTITIES FOR ADDITIONAL DETAILS. ALTERNATE B DOES NOT HAVE ANY ROADWAY QUANTITIES ASSOCIATED WITH THIS ALTERNATE.

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION GUY ENGINEERING SERVICES, INC.
			GUT ENGINEERING SERVICES, INC.
DRAWN	ALM	09/18	
CHECKED	BDC	09/18	SUMMARY OF PAY QUANTITIES &
			I SOMMAN OF A GUANTITIES &
APPROVED	JRW	09/18	NOTES (ROADWAY)
			NOTES (NOADWAT)
SQUAD			

HIGHWAY/ROAD \_\_\_\_\_I-35

STA	TION	EXTENTS		GUARDRAIL BRIDGE CONN-THRIE BEAM (31") 623(1)	BEAM GUARDRAIL W-BEAM SINGLE 623(A)	GUARDRAIL END TREATMENT (31") 623(G)	REMOVAL OF GUARDRAI619(B)	REMOVAL OF ASPHALT 619(B)
				EA.	L.F.	EA.	LF.	S.Y.
		AVENUE						
23+61.90	то	24+33.77	LT.	1	6.25	1	53	
23+61.90	то	24+33.77	RT.	1	6.25	1	53	
26+44.07	TO	27+15.94	LT.	1	6.25	1	53	
26+44.07	TO	27+15.94 D AVENUE	RT.	1	6.25	1	54	
23+61.53	TO	24+33.40	LT.	1	6.25	1	53	
23+61.53	TO	24+33.40	RT.	1	6.25	1	53	
26+43.70	TO	28+28.07	LT.	1	118.75	1	54	
26+43.70	то	27+15.57	RT.	1	6.25	1	52	
		D AVENUE	131.		0.20	'		
23+65.24	ТО	24+37.11	LT.	1	6.25	1	113	
23+65.24	то	24+37.11	RT.	1	6.25	1	113	
26+47.41	TO	27+19.28	LT.	1	6.25	1	116	
26+47.41	TO	27+19.28	RT.	1	6.25	1	116	
COL	EMA	N AVENUE		<u> </u>	<u> </u>	<u> </u>		
76+30.59	то	77+02.46	LT.	1	6.25	1	53	
76+30.59	то	77+02.46	RT.	1	6.25	1	53	
79+12.76	то	79+84.63	LT.	1	6.25	1	53	
79+12.76	TO	79+84.63	RT.	1	6.25	1	52	
CHR'	YSLE	R AVENUE						
76+25.51	то	76+97.38	LT.	1	6.25	1	53	
76+25.51	то	76+97.38	RT.	1	6.25	1	53	
79+07.68	TO	79+79.55	LT.	1	6.25	1	52	
79+07.68	то	80+29.55	RT.	1	56.25	1	50	
FERG	SUSO	N AVENUE						
77+16.01	TO	81+12.88	LT.	1	331.25	1	403	
76+91.01	то	81+12.88	RT.	1	356.25	1	427	
83+23.18	то	86+57.55	LT.	1	268.75	1	328	
83+23.18	то	86+57.55	RT.	1	268.75	1	328	
		ROAD	T					
84+89.17	TO	86+23.54	LT.	1	68.75	1	53	
85+51.67 88+38.84	TO	86+23.54 89+73.21	RT.	1	6.25 68.75	1	53 52	
88+38.84	то	89+10.71	RT.	1	6.25	1	51	
		ROAD	131.	<u>'</u>	0.20	'		
		aches-Hom					104	
		ches-Home					107	
	<u> </u>	west side					251	145
		heast side					250	140
		I ROAD					230	
76+36.39	TO	77+89.51	LT.	1	87.5	1	52	
76+98.89	TO	77+89.51	RT.	1	25	1	53	
79+99.81	то	82+15.43	LT.	i	150	i	52	<del>                                     </del>
79+99.81	то	81+77.93	RT.	1	112.5	1	52	
		TOTAL		32	2037.5	32	3,918	145
							-,	
		SUMM	AR۱	OF D	RIVES			

SCHEDULE OF GUARDRAIL

FENCE	FENCE SUMMARY							
STATION EXTENT:	FENCE-STYLE SWF (5 BARBED WIRE) 624(C)	REMOVAL OF FENCE 619(B)						
		L.F.	L.F.					
NORTH AVE								
23+89.92 TO 24+32.0	)5 LT.	76	78					
23+90.52 TO 24+32.0	5 RT.	75	77					
26+45.52 TO 26+87.5	55 LT.	99	84					
26+45.52 TO 26+85.9	1 RT.	94	93					
HIGLAND AVE								
23+95.32 TO 24+32.0	00 LT.	92	82					
23+89.72 TO 24+32.0	00 RT.	93	103					
26+45.00 TO 26+68.7		61	60					
26+45.00 TO 26+86.3	8 RT.	93	91					
HARTFORD AVE								
23+93.82 TO 24+35.5	0 LT.	86	84					
23+98.11 TO 24+35.5	0 RT.	67	66					
26+49.00 TO 26+89.9	9 LT.	71	73					
26+49.00 TO 26+89.5	3 RT.	136	131					
COLEMAN RD								
76+58.40 TO 77+01.0	00 LT.	105	101					
76+60.23 TO 77+01.0		112	99					
79+14.40 TO 79+55.4		77	78					
79+14.40 TO 79+56.6		77	74					
CHRYSLER AVE								
76+55.50 TO 76+95.8	8 RT.	82	81					
79+09.00 TO 79+50.7		85	83					
79+09.00 TO 79+50.9		70	72					
FERGUSON AVE		- ' -	- · -					
80+58.26 TO 81+11.0	0 LT.	79	84					
80+51.35 TO 81+11.0		90	92					
83+24.75 TO 83+94.1		100	102					
83+24.75 TO 83+61.6		94	91					
ADOBE RD		<u> </u>	•					
85+77.70 TO 86+22.0	0 LT.	78	79					
85+88.82 TO 86+22.0		87	84					
88+40.40 TO 88+75.4		72	71					
88+40.40 TO 88+86.1		96	93					
HOME RD (I-35 STATIO								
819+84.21 TO 821+90.3		207	223					
820+12.69 TO 821+77.		166	155					
INDIAN RD			1 1 1					
77+28.04 TO 77+87.6	0 LT.	91	0					
77+34.68 TO 77+87.6		85	91					
80+01.50 TO 80+52.6		101	104					
80+01.50 TO 80+52.7		109	114					
ТОТ		3,106	2.993					
		-,,,,,,	_,					

	TOTALO-	52	2007	.5	2 0,31				
SUMMARY OF DRIVES									
STATION	TYPE	RETURN RADIUS	DRIVE WIDTH	LENGTH	TRAFFIC BOUND SURFACE COURSE TYPE E 402(E)				
		FT.	FT.	L.F.	TONS				
COLEM	AN AVE.								
72+00.26 LT	. 0	15	32	5	3				
72+01.21 RT	. 0	15	30	5	3				
84+31.11 RT	. 0	15	22	5	3				
FERGUS	ON AVE.								
75+96.00 RT	. 0	15	8	29	7				
88+25.54 RT	. 0	15	20	5	2				
			TO	TALS =	19				

	EARTI	HWORK	SUMMA	ARY		
STATION EXTEN	LS A DINI		EMBANKMENT +15%	EXCESS EXCAVATION	UNCLASSIFIED BORROW 202(D)	WASTE
		C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
NORTH AVE.						
	+53.17	48	637	-	589	-
	2+00.00	97	2,550	-	2,453	-
HIGHLAND AVE.						
	+52.86	46	446	-	400	-
26+24.24 TO 32	+ 00.00	54	598	-	545	-
HARTFORD AVE.						
19+00.00 TO 24	+56.54	50	450	-	400	-
26+27.99 TO 32	2+00.00	118	297	-	179	-
COLEMAN AVE.						
	+21.86	58	1,604	-	1,546	-
78+93.34 TO 84	+92.46	114	1,011	-	897	-
CHRYSLER AVE.						
72+25.00 TO 77	′+16.87	285	1,694	-	1,409	-
78+88.14 TO 84	+50.00	85	1,417	-	1,332	-
FERGUSON ROAD						
72+50.00 TO 81	+32.33	130	944	-	813	-
83+03.73 TO 89	+10.00	143	502	-	360	-
ADOBE ROAD						
	+42.90	49	827	- 1	777	-
88+19.42 TO 93	+ 20.00	36	1,604	-	1,569	-
HOME ROAD (1-35	STATIONING)					
817+40.00 TO 82	3+20.00	5, 854	129	5,726		5,726
INDIAN ROAD						
73+50.00 TO 77	+98.91	67	1,208	-	1,140	-
78+08.91 TO 84	+50.00	51	1,907	-	1,856	-
T	OTALS =	7,285	17,824	5,726	16,465	5,726

SURFACING SUMMARY						
STAT	ION EXT	ENTS	TRAFFIC BOUND SURFACE COURSE TYPE E 402(E)			
			TONS			
	RTH A					
18+40.00	то	24+33.17	548			
26+44.67	то	32+00.00	513			
	HLAND					
19+25.00	то	24+32.80	469			
26+44.30	то	32+00.00	534			
HAR	TFORD	AVE				
19+00.00	TO	24+36.51	490			
26+48.01	то	32+00.00	509			
COL	.EMAN	AVE				
71+60.00	то	77+01.86	498			
79+13.36	TO	84+50.00	495			
CHR	YSLER	AVE				
72+25.00	TO	76+96.78	442			
79+08.28	то	84+50.00	491			
FERG	SUSON	IAVE				
74+05.00	то	81+12.28	773			
83+23.73	то	89+10.00	543			
ADO	DBE RO	OAD	•			
81+60.00	то	86+22.94	439			
88+39.44	то	93+20.00	453			
IND	IAN RO	)AD				
73+50.00	то	77+88.91	420			
80+00.41	то	84+50.00	432			
		TOTALS =	8,068			

	SUMMARY OF EROSION CONTROL									
STA	TIONS		TYPE A SALVAGED TOPSOIL	TEMPORARY SILT FENCE	TEMPORARY FIBER LOG	TEMPORARY SILT DIKE	SOLID SLAB SODDING	VEGETATIVE MULCHING		
			205(A)	221(C)	221(K)	221(F)	230(A)	233(A)		
NOR	TH AVE		C.Y.	L.F.	L.F.	L.F.	S.Y.	AC.		
18+40.00 TO	24+80.00	LT.	215	690	1	I	1,549	0.32		
18+40.00 TO	24+80.00		310	670				0.32		
		RT.					2,227			
26+00.00 TO	32+00.00	LT.	417	660			3,001	0.62		
26+00.00 TO	32+00.00	RT.	370	680			2,662	0.55		
	AND AVE	LT.	000	010			4.507	0.00		
19+25.00 TO 19+25.00 TO	24+80.00 24+80.00	RT.	222 242	610 610			1,597 1,743	0.33 0.36		
26+00.00 TO	32+00.00	LT.	155	650			1,743	0.36		
26+00.00 TO	32+00.00	RT.	38	670			2,033	0.42		
	ORD AVE									
19+00.00 TO	24+80.00	LT.	229	635			1,597	0.34		
19+00.00 TO	24+80.00	RT.	215	645			1,549	0.32		
26+00.00 TO	32+00.00	LT.	155	655			1,113	0.23		
26+00.00 TO	32+00.00	RT.	242	670			1,743	0.36		
71+60.00 TO	77+50.00	LT.	242	570			4 740	0.00		
71+60.00 TO	77+50.00	RT.	209	565			1,743 1,500	0.36 0.31		
78+65.00 TO	84+92.00	LT.	222	625			1,500	0.33		
78+65.00 TO	84+92.00	RT.	215	605			1,500	0.32		
	LER AVE				1		.,			
72+25.00 TO	77+40.00	LT.	202	500		20	1,452	0.30		
72+25.00 TO	77+40.00	RT.	262	455		30	1,889	0.39		
78+60.00 TO	76+50.00	LT.	222	635			1,597	0.33		
78+60.00 TO	76+50.00	RT.	215	625		20	1,500	0.32		
	SON AVE									
74+05.00 TO	81+30.00	LT.	195	810			1,404	0.29		
74+05.00 TO	81+30.00	RT.	188	785			1,355	0.28		
82+75.00 TO 82+75.00 TO	89+10.00	LT. RT.	148	660			1,065	0.22 0.26		
	89+10.00 BE RD	KI.	175	665			1,259	0.26		
81+60.00 TO	86+75.00	LT.	121	540			871	0.18		
81+60.00 TO	86+75.00	RT.	148	550			1,065	0.10		
87+90.00 TO	93+20.00	LT.	202	600			1,452	0.30		
87+90.00 TO	93+20.00	RT.	195	590			1,404	0.29		
	-35 STATIONS									
817+00.00 TO	823+00.00	LT.	692			60	4,985	1.03		
817+00.00 TO	823+00.00	CL.	40			15	290	0.06		
818+50.00 TO	822+00.00 N ROAD	RT.	410		15	50	2,952	0.61		
73+50.00 TO	78+40.00	LT.	162	550			1,162	0.24		
73+50.00 TO	78+40.00	RT.	242	540			1,743	0.36		
79+50.00 TO	84+50.00	LT.	249	540			1,791	0.37		
79+50.00 TO	84+50.00	R3	370	470		30	2,662	0.55		
	TOTA	LS =	8,136	19,725	15	225	60, 165	12.46		

20+00.0		32+00.00	L1.	100	633			1,110	0.23		
26+00.0		32+00.00	RT.	242	670			1,743	0.36		
COLEMAN AVE											
71+60.0	0 TO	77+50.00	LT.	242	570			1,743	0.36		
71+60.0		77+50.00	RT.	209	565			1,500	0.31		
78+65.0	0 TO	84+92.00	LT.	222	625			1,597	0.33		
78+65.0	0 ТО	84+92.00	RT.	215	605			1,500	0.32		
	CHRYSI	LER AVE									
72+25.0	0 то	77+40.00	LT.	202	500		20	1,452	0.30		
72+25.0	0 то	77+40.00	RT.	262	455		30	1,889	0.39		
78+60.0	0 то	76+50.00	LT.	222	635			1,597	0.33		
78+60.0	0 то	76+50.00	RT.	215	625		20	1,500	0.32		
	FERGUS	SON AVE									
74+05.0	0 ТО	81+30.00	LT.	195	810			1,404	0.29		
74+05.0	0 то	81+30.00	RT.	188	785			1,355	0.28		
82+75.0	0 ТО	89+10.00	LT.	148	660			1,065	0.22		
82+75.0	0 TO	89+10.00	RT.	175	665			1,259	0.26		
	ADO	BE RD									
81+60.0	0 TO	86+75.00	LT.	121	540			871	0.18		
81+60.0	0 ТО	86+75.00	RT.	148	550			1,065	0.22		
87+90.0	0 TO	93+20.00	LT.	202	600			1,452	0.30		
87+90.0	0 TO	93+20.00	RT.	195	590			1,404	0.29		
НО	ME RD (1-	35 STATIONS	S)								
817+00.0	00 TO	823+00.00	LT.	692			60	4,985	1.03		
817+00.0	00 TO	823+00.00	CL.	40			15	290	0.06		
818+50.0		822+00.00	RT.	410		15	50	2,952	0.61		
	INDIAN	N ROAD									
73+50.0	0 TO	78+40.00	LT.	162	550			1,162	0.24		
73+50.0	0 TO	78+40.00	RT.	242	540			1,743	0.36		
79+50.0		84+50.00	LT.	249	540			1,791	0.37		
79+50.0	0 TO	84+50.00	R3	370	470		30	2,662	0.55		
		TOTA	LS =	8,136	19,725	15	225	60,165	12.46		
				D	RAINAGE	SUMM	ARY				
										R.C.P.	P.C.E.S.
											1.0.20
CTD NO	CTATION	OFFSET	CIDE		DESCRIP	TION		FLOWLINE	FLOWLINE	24"	24"
STR. NO.	STATION	`	SIDE					IN	OUT		1
		1								613(A)	613(L)
		L.F.	1		HOME R	<b>Δ</b> Ω·				L.F.	EA.
		L.F.		DEMON/F			EVTEND			L.F.	_ EA.
1	821+56.0	5 81 & 82.5	LT. & RT		EXISTING HE			1073.77	1072.8	10	2
	l			24	NOF 4 L1. 00		020		TOTALS =	10.0	2.0
									IOTALS =	10.0	2.0

SURFACING SUMMARY ASPHALT PAVING									
STATION EXTENTS	AGGREGATE BASE TYPE A 303(A)	SUBRADE METHOD B 310(B)	TACK COAT 407(B)	SUPERPAVE TYPE S3 (PG 64-22 OK) 411(B)	SUPERPAVE TYPE S4 (PG 64-22 OK) 411(C)				
	CY	SY	GAL	TONS	TONS				
I-35 STA 858+85.26 TO STA 859+85.26	82	370	56	124	41				

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION GUY ENGINEERING SERVICES, INC.								
DRAWN	ALM	09/18	GOT ENGINEERING SERVICES, INC.								
CHECKED	BDC	09/18	SUMMARY OF QUANTITIES								
APPROVED	JRW	09/18	(ROADWAY)								
SQUAD			(NOADWAT)								
COUNTY	K	ΑY	HIGHWAY/ROAD I-35 STATE JOB NO. 24432(15) SHEET NO. AR02								

DESCRIPTION REVISIONS

DATE

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 FNGINFFR

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 SHEETING.

ALL GREEN AND BLUE SIGNS ON CONVENTIONAL HIGHWAYS SHALL HAVE HIGH INTENSITY SHEETING. THE HIGH INTENSITY SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST REVISION) FOR TYPE III SHEETING.

ALL PANEL AND OVERHEAD SIGNS SHALL HAVE TYPE III HIGH INTENSITY BACKGROUND WITH TYPE VIII LEGENDS AND BORDERS. THE TYPE III BACKGROUND AND THE TYPE VIII LEGENDS AND BORDERS SHALL MEET THE REQUIREMENTS OF ASTM D4956-(I ATEST REVISION).

THE MANUFACTURER SHALL FURNISH A TYPE 'A' CERTIFICATION IN ACCORDANCE WITH ODOT STANDARD SPECIFICATIONS, LATEST EDITION, SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON THE MATERIAL SUBMITTED FOR APPROVAL.

ALL BROKEN CONCRETE INCLUDING OLD SIGN FOOTINGS WITH STUBS, WASTE MATERIAL AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THE DISPOSAL OF THIS MATERIAL. ANY PIPE POST OR WIDE FLANGE POST ABOVE THE OLD SIGN FOOTINGS SHALL BE CUT AND HANDLED AS PROPERTY OF THE STATE AND SHALL BE NEATLY STACKED ON THE JOB SITE, AS DESIGNATED BY THE ENGINEER UNTIL SUCH TIME AS DIVISION PERSONNEL CAN REMOVE THE MATERIAL FROM THE SITE.

NO SPLICES SHALL BE PERMITTED IN ANY PIPE OR WIDE FLANGE SIGN POSTS.

ALL ANCHOR BOLTS SHALL BE GRADE A-36 STEEL

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.

POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE, EXACT LENGTH SHALL BE DETERMINED BY FIELD SURVEY BY THE CONTRACTOR.

THE COST OF REPLACEMENT OF MISSING OR DAMAGED EDGE STRIP ON EXISTING SIGNS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

ALL EXISTING AND NEW BREAKAWAY SIGN POSTS, PIPES AND WIDE FLANGE BEAMS SHALL HAVE SHEET METAL BOLT RETAINER PLATES AS SPECIFIED IN O.D.O.T. STD. FGS1-1-(LATEST REVISION). REPLACEMENT COST OF MISSING OR DAMAGED BOLT RETAINER PLATES AND ALL ASSOCIATED HARDWARE AND LABOR SHALL BE INCLUDED IN OTHER ITEMS OF WORK

ALL REMOVED SIGNS, SIGN POSTS, BOLTS, MISCELLANEOUS HARDWARE, AND DELINEATORS SHALL REMAIN THE PROPERTY OF THE STATE. THE CONTRACTOR SHALL NEATLY STACK SUCH REMOVED MATERIAL AT A LOCATION ON THE JOB SITE AS DESIGNATED BY THE ENGINEER UNTIL SUCH TIME AS DIVISION PERSONNEL CAN REMOVE THE MATERIAL FROM THE JOB SITE.

ALL SIGNS SHALL BE REMOVED FROM THE POSTS IN A SALVAGEABLE MANNER FOR REUSE. CARE SHALL BE TAKEN DURING REMOVAL AND TRANSPORTING TO ALLEVIATE DAMAGE OF MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED DURING REMOVAL OF SIGNS AND SIGN POSTS.

AFTER REMOVAL OF ANY SIGN FOOTINGS, THE HOLES SHALL BE FILLED WITH SOIL AND TAMPED AND SHAPED IN A MANNER APPROVED BY THE ENGINEER.

FOR NEW OR EXISTING GROUND MOUNTED SIGNS, MAXIMUM STUB POST PROJECTION ABOVE FOOTING/GROUND LINE SHALL BE 1-3/4" +/- 1/4". MAXIMUM FOOTING PROJECTION ABOVE GROUND LINE SHALL BE NO MORE THAN 2". SHOULD ADDITIONAL SOIL BE REQUIRED, THE ENGINEER WILL DESIGNATE AN AREA TO OBTAIN ADDITIONAL SOIL. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN OTHER ITEMS OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE HE MAY INFLICT TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF HIS DIGGING, TRENCHING, BORING, ETC.... PRIOR TO DIGGING NEAR THE UTILITIES, THE CONTRACTOR SHALL CALL FOR A LIST OF ALL UNDERGROUND FACILITIES REGISTERED IN THE AREA OF CONSTRUCTION LISTED WITH THE FOLLOWING AGENCIES:

THE "OKIE" NOTIFICATION CENTER (405) 840-5032 OR 1-800-522-6543.

THE LOCAL COUNTY CLERK'S OFFICE.

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Octobe 1070F DEPTH OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

### TRAFFIC CONSTRUCTION PAY QUANTITY NOTES

- (TC-1) THE CONTRACTOR SHALL FURNISH AND INSTALL SUCH LIGHTS, SIGNS, BARRICADES, AND PROVIDE FLAGGERS NECESSARY FOR THE CONTROL, SAFETY, AND MAINTENANCE OF TRAFFIC WHEN INSTALLING, RELOCATING OR DELIVERING PORTABLE LONGITUDINAL BARRIER.
- (TC-2) QUANTITY INCLUDES SUFFICIENT LENGTH OF PORTABLE LONGITUDINAL BARRIER TO PROVIDE FOR THE LONGEST SECTION SHOWN ON THE PLANS. THIS SAME BARRIER WILL BE USED ON OTHER DETOUR PHASES.
- (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 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.

## TRAFFIC CONSTRUCTION PAY QUANTITY NOTES CONTINUED

(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-44) PRICE BID FOR THIS ITEM SHALL INCLUDE ATTENUATOR MODULES, SAND, WOODEN PALLETS (IF REQUIRED), RELOCATION, AND MAINTENANCE.
- (TC-52) ANY USED CHANGEABLE MESSAGE SIGNS TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT.

ANY USED CONSTRUCTION ZONE IMPACT ATTENUATOR TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT.

- (TC-70) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER.
- (TC-80) INCLUDED IN THIS ITEM SHALL BE ONE (1) ADDITIONAL UNIT TO BE USED AS A STAND-BY OR REPLACEMENT. THIS STAND-BY UNIT SHALL BE IMMEDIATELY ACCESSIBLE TO REPLACE A DAMAGED, STOLEN OR MALFUNCTIONING UNIT. THE AMOUNT OF TIME BETWEEN THE REMOVAL OF THE DAMAGED UNIT AND THE INSTALLATION OF THE STAND-BY UNIT SHALL BE NO MORE THAN TWENTY-FOUR (24) HOURS.
- (TC-84) 240 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. 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. STANDARD AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION
- (TC-85) THESE SIGNS MUST BE ON THE OKLAHOMA DEPARTMENT OF TRANSPORTATION LIST OF APPROVED CHANGEABLE MESSAGE SIGNS. FOR A LIST OF THE APPROVED SIGNS GO TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION WEBSITE AT: <a href="http://www.okladot.state.ok.us/traffic/qpl/index.php">http://www.okladot.state.ok.us/traffic/qpl/index.php</a>.
- (SP-1) WARNING LIGHTS TYPE C ARE NOT REQUIRED.
- (SP-2) SIGN PLACEMENT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- (SP-3) REMOVAL ONLY INCLUDES POSTS REMOVED AND NOT CABLE THAT NEEDS TO BE RE-TENSIONED. PRICE BID SHALL INCLUDE REINSTALLATION OF CABLE BARRIER.
- (SP-4) INCLUDES SALVAGING POSTS, HARDWARE, APPURTENANCES AND SAFEGUARDING CABLE FOR REINSTALLATION. STORE MATERIALS IN A SECURE LOCATION APPROVED BY THE ENGINEER AFTER REMOVAL.
- (SP-5) CONTRACTOR TO PROVIDE TENSION METER. THE TENSION METER SHALL BE OF THE TYPE RECOMMENDED BY THE MANUFACTURER OF THE CABLE BARRIER SYSTEM PROVIDED. AND SHALL BE APPROVED BY THE ODOT TRAFFIC ENGINEERING DIVISION. IT SHALL ALSO BE NEW, CALIBRATED, FUNCTIONAL AND CAPABLE OF READING THE TENSION ON THE CABLE BARRIER SYSTEM TO WITH THE MANUFACTURER'S RECOMMENDED TOLERANCES.
- (SP-6) END ANCHOR QUANTITY PROVIDED IN CASE EXISTING END ANCHORS ARE DAMAGED. TO BE USED AT DISCRETION OF ENGINEER.

### TRAFFIC OPERATIONS GENERAL CONSTRUCTION NOTES

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL MEET OKLAHOMA DEPARTMENT OF TRANSPORTATION'S "QUALITY STANDARDS FOR TEMPORARY TRAFFIC CONTROL DEVICES."

ANY SIGNS AND/OR DELINEATORS WHICH ARE TO BE REMOVED DURING THIS PROJECT WILL BE STORED IN A PROTECTED AREA DESIGNATED BY THE RESIDENT ENGINEER, UNTIL SUCH A TIME THAT THEY ARE TO BE RESET BY THE CONTRACTOR. COST OF THIS WORK TO BE INCLUDED IN OTHER ITEMS OF WORK.

I-35 SHALL REMAIN OPEN DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BARRICADES, LIGHTS, AND SIGNING WITHIN THE LIMITS OF CONSTRUCTION. ALL CONSTRUCTION SIGNING WILL BE DONE ACCORDING TO STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND AS SHOWN ON TCS STANDARD DRAWINGS.

THE CONTRACTOR SHALL PROVIDE A PERSON TO BE ON 24 HOUR CALL AS NEEDED AS DETERMINED BY THE ENGINEER. THIS PERSON SHALL HOLD A CURRENT CERTIFICATION FROM THE AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION (ATSSA) OR THE OKLAHOMA TRAFFIC ENGINEERING ASSOCIATION (OTEA) AS A TRAFFIC CONTROL TECHNICIAN OR TRAFFIC CONTROL SUPERVISOR.

ADJACENT COUNTY ROADS MAY NOT BE CLOSED AT THE SAME TIME DURING THE DURATION OF THE PROJECT

## TRAFFIC SIGNING PAY QUANTITY NOTES

- (TS-33) INCLUDED IN THIS PAY ITEM IS ALL HARDWARE ASSOCIATED WITH PROPERLY ANCHORING AND MOUNTING THE HIGHWAY SIGN IN ACCORDANCE WITH O.D.O.T. PLANS AND STANDARD DRAWINGS SSA1-1 AND SSP1-1-(LATEST REVISION).
- (TS-34) INCLUDED IN THIS PAY ITEM IS THE REMOVAL OF ANY EXISTING SIGNS TO BE REPLACED BY NEW ASSEMBLIES AND THE REMOVAL OF ANY EXISTING SIGNS THAT WILL BE IN CONFLICT WITH THE NEW ROADWAY OR NEW SIGNAGE.

DESCRIPTION REVISIONS DATE

31170(15)					
		PAY QUANTITIES			
0300 TRA	FFIC ITE	MS (BASE BID)			
ITE	М	DESCRIPTION	PAY NOTES	UNIT	QUANTITY
619(B)	5190	REMOVAL OF CABLE BARRIER	SP-3,SP-4	LF	700
628(C)	5110	END ANCHORS	SP-6	EA	2
628(F)	5185	(PL) HIGH TENSION CABLE BARRIER - RE-TENSIONING	SP-3, SP-5	EA	10
850(A)	8110	SHEET ALUMINUM SIGNS	TS-34	SF	144
851(C)	8330	2 1/2" SQUARE TUBE POST	TS-33	LF	152
853	9069	GUARDRAIL DELINEATORS (TYPE 2, CODE 1)		EA	72
871(B)	8705	(SP) CONST. ZONE IMPACT ATTEN.	TC-44,52,80,84	SD	960
877(B)	8484	DELIVER PORTABLE LONGITUDINAL BARRIER	TC-1,TC-2,TC-26	LF	2,240
877(C)	8486	RELOCATION OF PORTABLE LONGITUDINAL BARRIER	TC-1, TC-2, TC-26	LF	17,920
880(B)	8818	CONSTRUCTION SIGNS 0 TO 6.25 SF	TC-26, TC-33, TC-84, SP-2	SD	8,000
880(B)	8821	CONSTRUCTION SIGNS 6.26 TO 15.99 SF	TC-26, TC-33, TC-84, SP-2	SD	4,000
880(B)	8824	CONSTRUCTION SIGNS 16.00 TO 32.99 SF	TC-26, TC-33, TC-84, SP-2	SD	10,000
880(C)	8842	CONSTRUCTION BARRICADES (TYPE III)	TC-26, TC-84	SD	2,000
880(C)	8845	BARRICADES (TYPE III)		EA	10
880(C)	8848	WING BARRICADES	TC-26, TC-84	SD	1,200
880(E)	8860	WARNING LIGHTS (TYPE A)	TC-26, TC-84	SD	10,000
880(F)	8878	DRUMS	TC-26,TC-84,SP-1	SD	22,000
880(I)	8902	FLAGGER	TC-70	SD	30
882(A)	8306	PORTABLE CHANGEABLE MESSAGE SIGN	TC-52.84.85.SP-2	SD	480

31170(15)	1170(15)										
	PAY QUANTITIES										
0300 TRA	FFIC ITE	MS (BID ALTERNATE A)									
ITE	М	DESCRIPTION	PAY NOTES	UNIT	QUANTITY						
619(B)	5190	REMOVAL OF CABLE BARRIER	SP-3, SP-4	LF	1,775						
628(F)	5185	(PL) HIGH TENSION CABLE BARRIER - RE-TENSIONING	SP-3, SP-5	EA	5						
880(A)	8800	ARROW DISPLAY (TYPE A)	TC-26, TC-84	SD	20						
880(B)	8818	CONSTRUCTION SIGNS 0 TO 6.25 SF	TC-26, TC-33, TC-84, SP-2	SD	400						
880(B)	8821	CONSTRUCTION SIGNS 6.26 TO 15.99 SF	TC-26, TC-33, TC-84, SP-2	SD	200						
880(B)	8824	CONSTRUCTION SIGNS 16.00 TO 32.99 SF	TC-26, TC-33, TC-84, SP-2	SD	550						
880(C)	8842	CONSTRUCTION BARRICADES (TYPE III)	TC-26, TC-84	SD	40						
880(C)	8848	WING BARRICADES	TC-26, TC-84	SD	40						
880(E)	8860	WARNING LIGHTS (TYPE A)	TC-26, TC-84	SD	300						
880(F)	8878	DRUMS	TC-26,TC-84,SP-1	SD	3,200						
880(I)	8902	FLAGGER	TC-70	SD	30						
880(J)	8905	CONSTRUCTION TRAFFIC CONTROL		LSUM	1						
882(A)	8306	PORTABLE CHANGEABLE MESSAGE SIGN	TC-52, TC-84, TC-85, SP-2	SD	960						

31170(15)								
		PAY QUANTITIES						
0300 TRA	FFIC ITE	MS (BID ALTERNATE B)						
ITE	ITEM DESCRIPTION PAY NOTES UNIT QUANTITY							
877(C)	8486	RELOCATION OF PORTABLE LONGITUDINAL BARRIER	TC-1, TC-2, TC-26	LF	17,920			
880(A)	8800	ARROW DISPLAY (TYPE A)	TC-26, TC-84	SD	500			
880(B)	8818	CONSTRUCTION SIGNS 0 TO 6.25 SF	TC-26, TC-33, TC-84, SP-2	SD	4,000			
880(B)	8821	CONSTRUCTION SIGNS 6.26 TO 15.99 SF	TC-26, TC-33, TC-84, SP-2	SD	100			
880(B)	8824	CONSTRUCTION SIGNS 16.00 TO 32.99 SF	TC-26, TC-33, TC-84, SP-2	SD	1,000			
880(C)	8842	CONSTRUCTION BARRICADES (TYPE III)	TC-26, TC-84	SD	350			
880(E)	8860	WARNING LIGHTS (TYPE A)	TC-26, TC-84	SD	1,000			
880(F)	8878	DRUMS	TC-26,TC-84,SP-1	SD	7,000			
880(I)	8902	FLAGGER	TC-70	SD	10			
880(J)	8905	CONSTRUCTION TRAFFIC CONTROL		LSUM	1			
882(A)	8306	PORTABLE CHANGEABLE MESSAGE SIGN	TC-52, TC-84, TC-85, SP-2	SD	60			

### **BID NOTES**

BID ALTERNATE A INCLUDES ADDITIONAL QUANTITIES FOR ROLLING BLOCKS IN BOTH DIRECTIONS ALONG I-35 FOR 8 OF THE BRIDGE LOCATIONS. THE DEMOLITION OF THE BRIDGE AT HOME ROAD DOES NOT INCLUDE ROLLING ROAD BLOCKS, BUT CROSSOVERS ARE BEING UTILIZED IN THE BASE BID AT THIS LOCATION.

BID ALTERNATE B INCLUDES ADDITIONAL QUANTITIES FOR A ROLLING ROAD BLOCK AT HOME ROAD DEMOLITION INSTEAD OF CROSSOVER AND FOR THE 8 BRIDGES TO BE RAISED UNDER LIVE TRAFFIC INSTEAD OF UTILIZING ROLLING ROAD BLOCKS. THIS WILL REQUIRE LANE CLOSURES INSTEAD OF ROAD BLOCKS.

# **ROLLING ROAD BLOCK NOTES**

INSTALL PORTABLE LONGITUDINAL BARRIERS TO ALLOW FOR 2 LANES. THESE WILL BE NEEDED PRE-RAISE AND POST-RAISE TO PERFORM WORK ADJACENT TO SHOULDERS. POSITION BARRIERS SUCH THAT THE CONTRACTOR WILL NOT NEED TO SHIFT THEM DURING THE RAISE, AND PORTABLE LONGITUDINAL BARRIERS CAN BE LEFT IN PLACE THROUGHOUT THE DURATION OF THE RAISE.

SEE SHEET T13 FOR ADDITIONAL NOTES.

### LIVE TRAFFIC NOTES

INSTALL PORTABLE BARRIERS TO ALLOW FOR 2 LANES PRE-RAISE.

SHIFT OUTSIDE PORTABLE BARRIERS TO INSIDE LANE TO ALLOW FOR 1 LANE TO PASS DURING RAISE

SHIFT OUTSIDE PORTABLE BARRIERS BACK TO 2 LANE CONFIGURATION FOR POST RAISE OPERATIONS

DESIGN BDC 09/18 OKLAHOMA DEPARTMENT OF TRA	
DRAWN ALM bozze	*
SUMMARY OF PAY QUA	NITITIES &
CHECKED BDC 69/18 OOM INTAKE OF FAT GOA	MINITEGRA
APPROVED JRW 09/18 NOTES (TRAFFI	$\bigcirc$
APPROVED JRW 99/18 NOTES (TRAFFI	C)
SQUAD STATE JOB NO. 24432(I5)	SHEET NO. ATO

DESCRIPTION	REVISIONS	DATE

			SIGNS	UMMARY					
SIGN NO.			DESCRIPTION	SIGN	BARRICADE (TYPE)III 880(C)	SHEET ALUMINUM SIGNS 850(A)	2-1/2" SQUARE TUBE POST 851(C)	m 2-1/2" SQUARE TUBE POST 851(C)	REMARKS
					SF	SF	LF	LF	
1	FERGUSON		LEFT REVERSE CURVE ADVISORY SPEED (20 MPH)	W1-4(L) W13-1P(20)		6.25 2.25	14		MOUNT BOTH SIGNS ON SINGLE POST
	1		LEFT REVERSE CURVE	W1-4(L)		6.25			
2	FERGUSON		ADVISORY SPEED (20 MPH)	W13-1P(20)		2.25	14		MOUNT BOTH SIGNS ON SINGLE POST
3	FERGUSON		LEFT REVERSE CURVE	W1-4(L)		6.25	14		MOUNT BOTH SIGNS ON SINGLE POST
	PERGUSON		ADVISORY SPEED (20 MPH)	W13-1P(20)		2.25	14		WOUNT BOTH SIGNS ON SINGLE POST
4	FERGUSON		LEFT REVERSE CURVE	W1-4(L)		6.25	14		MOUNT BOTH SIGNS ON SINGLE POST
	12.1000011	00100,00	ADVISORY SPEED (20 MPH)	W13-1P(20)		2.25			
5	HOME ROAD	EAST OF	2-TYPE III BARRICADES "BRIDGE OUT 0.5 MILES AHEAD LOCAL TRAFFIC ONLY" MOUNTED ON EACH TYPE III BARRICADE	2-R11-3B	2	25.00	12	12	
5	HOME ROAD	WEST OF	2-TYPE III BARRICADES "BRIDGE OUT 0.5 MILES AHEAD LOCAL TRAFFIC ONLY" MOUNTED ON EACH TYPE III BARRICADE	2-R11-3B	2	25.00	12	12	
6	HOME ROAD	150 EAST OF	3-TYPE III BARRICADES "ROAD CLOSED" MOUNTED ON EACH TYPE III	3-R11-2	3	30.00	12	12	
			BARRICADE						
6	HOME ROAD	150 WEST OF	3-TYPE III BARRICADES	3-R11-2	3	30.00	12	12	
	HOWE KOAD	1-35 C.L.	"ROAD CLOSED" MOUNTED ON EACH TYPE III BARRICADE		3	30.00	12	'2	
	•			TOTALS =	10	144.00	104	48	

PORTABLE LONGITUDINAL BARRIER WALL SUMMARY TABLE							
LOCATION NORTHBOUND	DELIVER PORTABLE LONGITUDINAL BARRIER	RELOCATION OF PORTABLE LONGITUDINAL BARRIER					
	877(B)	877(C)					
	LF	LF					
NORTH AVE OUTSIDE SHOULDER-PRE RAISE	560						
NORTH AVE INSIDE SHOULDER-PRE RAISE	560	500					
NORTH AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE NORTH AVE OUTSIDE SHOULDER-POST BRIDGE RAISE	1	560					
		560					
HIGHLAND AVE OUTSIDE SHOULDER-PRE RAISE		560					
HIGHLAND AVE INSIDE SHOULDER -PRE RAISE		560					
HIGHLAND AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE		560					
HIGHLAND AVE OUTSIDE SHOULDER-POST BRIDGE RAISE		560					
HARTFORD AVE OUTSIDE SHOULDER-PRE RAISE		560					
HARTFORD AVE INSIDE SHOULDER -PRE RAISE		560					
HARTFORD AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE		560					
HARTFORD AVE OUTSIDE SHOULDER-POST BRIDGE RAISE		560					
COLEMAN ROAD OUTSIDE SHOULDER-PRE RAISE		560					
COLEMAN ROAD INSIDE SHOULDER -PRE RAISE		560					
COLEMAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE		560					
COLEMAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE		560					
CHRYSLER AVE NORTHBOUND OUTSIDE SHOULDER-PRE RAISE		560					
CHRYSLER AVE NORTHBOUND INSIDE SHOULDER -PRE RAISE		560					
CHRYSLER AVE NORTHBOUND OUTSIDE LANE CLOSURE-BRIDGE RAISE		560					
CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE		560					
FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE		560					
FERGUSON AVE INSIDE SHOULDER -PRE RAISE	+	560					
FERGUSON AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE		560					
FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE		560					
ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE		560					
ADOBE ROAD INSIDE SHOULDER -PRE RAISE	-	560					
ADOBE ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE	+	560					
ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE		560					
HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION	+	560					
HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION HOME ROAD INSIDE SHOULDER -PRE DEMOLITION		560					
INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE		560					
INDIAN ROAD INSIDE SHOULDER -PRE RAISE		560					
INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE	+	560					
INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE	1	560					
THE TAX TO SELECT STOCKS AND SELECT OF STREET AND SELECT OF STREET							

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COLEMAN ROAD INSIDE SHOULDER-PRE RAISE  COLEMAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE  COLEMAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE  COLEMAN ROAD OUTSIDE SHOULDER-PRE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-PRE RAISE  CHRYSLER AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-PRE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-PRE RAISE  FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE  FERGUSON AVE INSIDE SHOULDER-PRE RAISE  FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE  ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ADOBE ROAD OUTSIDE SHOULDER-PRE DEMOLITION  56  HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION  56  INDIAN ROAD OUTSIDE SHOULDER-PRE RAISE  156  INDIAN ROAD OUTSIDE SHOULDER-PRE RAISE  56  INDIAN ROAD OUTSIDE SHOULDER-PRE RAISE  57  INDIAN ROAD OUTSIDE SHOULDER-PRE RAISE  58  SUBTOTAL SOUTHBOUND  1, 120  17, 92  SUBTOTAL NORTHBOUND  1, 120  17, 92	COLEMAN DOAD OUTCIDE CUOU DED DE DAIGE		500
COLEMAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE  COLEMAN ROADOUTSIDE SHOULDER-POST BRIDGE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-PRE RAISE  CHRYSLER AVE INSIDE SHOULDER-PRE RAISE  CHRYSLER AVE INSIDE SHOULDER-PRE RAISE  CHRYSLER AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-PRE RAISE  FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE  FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE  ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ADOBE ROAD INSIDE SHOULDER-PRE RAISE  ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE  HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION  56  HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION  56  INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE  INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE  SUBTOTAL SOUTHBOUND  1, 120  17, 92  SUBTOTAL NOUTHBOUND  1, 120  17, 92  SUBTOTAL NOUTHBOUND  1, 120  17, 92			
COLEMAN ROADOUTSIDE SHOULDER-POST BRIDGE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-PRE RAISE  CHRYSLER AVE INSIDE SHOULDER -PRE RAISE  CHRYSLER AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE  CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE  56  CHRYSLER AVE OUTSIDE SHOULDER-PRE RAISE  FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE  56  ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ADOBE ROAD OUTSIDE SHOULDER-PRE DEMOLITION  56  HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION  56  INDIAN ROAD OUTSIDE SHOULDER-PRE RAISE  SUBTOTAL SOUTHBOUND  1, 120  17, 92  SUBTOTAL SOUTHBOUND  1, 120  17, 92  SUBTOTALNORTHBOUND  1, 120  17, 92			
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CHRYSLER AVE INSIDE SHOULDER-PRE RAISE         56           CHRYSLER AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ABOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-PRE BRIDGE RAISE         56           HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION         56           HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION         56           INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE	COLEMAN ROADOUTSIDE SHOULDER-POST BRIDGE RAISE		560
CHRYSLER AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE         56           FERGUSON AVE INSIDE SHOULDER-PRE RAISE         56           FERGUSON AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-PRE BRIDGE RAISE         56           HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION         56           HOME ROAD INSIDE SHOULDER-PRE DEMOLITION         56           INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           INDIAN ROAD OUTSIDE SHOULD	CHRYSLER AVE OUTSIDE SHOULDER-PRE RAISE		560
CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE  FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE  FERGUSON AVE INSIDE SHOULDER -PRE RAISE  FERGUSON AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE  FERGUSON AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE  FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE  ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE  ADOBE ROAD INSIDE SHOULDER-PRE RAISE  ADOBE ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE  ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE  ADOBE ROAD OUTSIDE SHOULDER-PRE DEMOLITION  FOR ROAD OUTSIDE SHOULDER-PRE DEMOLITION  FOR ROAD INSIDE SHOULDER-PRE DEMOLITION  SIDIAN ROAD OUTSIDE SHOULDER-PRE RAISE  INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE  SUBTOTAL SOUTHBOUND  1, 120  17, 92  SUBTOTAL SOUTHBOUND  1, 120  17, 92  SUBTOTALNORTHBOUND  1, 120  17, 92	CHRYSLER AVE INSIDE SHOULDER -PRE RAISE		560
FERGUSON AVE OUTSIDE SHOULDER-PRE RAISE         56           FERGUSON AVE INSIDE SHOULDER -PRE RAISE         56           FERGUSON AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD INSIDE SHOULDER -PRE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION         56           HOME ROAD INSIDE SHOULDER -PRE DEMOLITION         56           INIDAN ROAD OUTSIDE SHOULDER -PRE DEMOLITION         56           INDIAN ROAD OUTSIDE SHOULDER -PRE RAISE         56           INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           INDIAN ROAD OUTSI	CHRYSLER AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE		560
FERGUSON AVE INSIDE SHOULDER -PRE RAISE         56           FERGUSON AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION         56           HOME ROAD INSIDE SHOULDER-PRE DEMOLITION         56           INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           SUBTOTAL SOUTHBOUND         1, 120         17, 92           SUBTOTAL NORTHBOUND         1, 120         17, 92	CHRYSLER AVE OUTSIDE SHOULDER-POST BRIDGE RAISE		560
FERGUSON AVE INSIDE SHOULDER -PRE RAISE         56           FERGUSON AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION         56           HOME ROAD INSIDE SHOULDER-PRE DEMOLITION         56           INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           SUBTOTAL SOUTHBOUND         1, 120         17, 92           SUBTOTAL NORTHBOUND         1, 120         17, 92	FERRUSON AVE. OUTCORE CHOILEDED DE DATO		500
FERGUSON AVE OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD INSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION         56           HOME ROAD INSIDE SHOULDER-PRE DEMOLITION         56           INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           SUBTOTAL SOUTHBOUND         1, 120         17, 92           SUBTOTAL NORTHBOUND         1, 120         17, 92			
FERGUSON AVE OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE         56           ADOBE ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION         56           HOME ROAD INSIDE SHOULDER-PRE DEMOLITION         56           INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD INSIDE SHOULDER-PRE RAISE         56           INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           SUBTOTAL SOUTHBOUND         1, 120         17, 92           SUBTOTALNORTHBOUND         1, 120         17, 92			
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ADOBE ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE 56 ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE 56 HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION 56 HOME ROAD INSIDE SHOULDER-PRE DEMOLITION 56 INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE 56 INDIAN ROAD INSIDE SHOULDER -PRE RAISE 56 INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE 56 INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE 56 SUBTOTAL SOUTHBOUND 1,120 17,92 SUBTOTALNORTHBOUND 1,120 17,92	ABOBE ROAD OUTSIDE SHOULDER-PRE RAISE		560
ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE 56  HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION 56  HOME ROAD INSIDE SHOULDER-PRE DEMOLITION 56  INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE 56  INDIAN ROAD INSIDE SHOULDER-PRE RAISE 56  INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE 56  INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE 56  INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE 56  SUBTOTAL SOUTHBOUND 1,120 17,92  SUBTOTALNORTHBOUND 1,120 17,92	ADOBE ROAD INSIDE SHOULDER -PRE RAISE		560
HOME ROAD OUTSIDE SHOULDER-PRE DEMOLITION   56     HOME ROAD INSIDE SHOULDER-PRE DEMOLITION   56     INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE   56     INDIAN ROAD INSIDE SHOULDER-PRE RAISE   56     INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE   56     INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE   56     INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE   56     SUBTOTAL SOUTHBOUND   1,120   17,92     SUBTOTALNORTHBOUND   1,120   17,92	ADOBE ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE		560
HOME ROAD INSIDE SHOULDER -PRE DEMOLITION   56   INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE   56   INDIAN ROAD INSIDE SHOULDER -PRE RAISE   56   INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE   56   INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE   56   INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE   56   INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE   56   SUBTOTAL SOUTHBOUND   1,120   17,92   SUBTOTAL NORTHBOUND   1,120   17,92   SUBTOTAL NORTHBOUND   1,120   17,92	ADOBE ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE		560
HOME ROAD INSIDE SHOULDER -PRE DEMOLITION   56   INIDAN ROAD OUTSIDE SHOULDER-PRE RAISE   56   INDIAN ROAD INSIDE SHOULDER -PRE RAISE   56   INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE   56   INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE   56   INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE   56   INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE   56   SUBTOTAL SOUTHBOUND   1,120   17,92   SUBTOTAL NORTHBOUND   1,120   17,92   SUBTOTAL NORTHBOUND   1,120   17,92	LIAME BOAD OUTSIDE SHOULDED DEEDEMOLITION		500
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NDIAN ROAD INSIDE SHOULDER -PRE RAISE   56     INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE   56     INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE   56     INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE   56     SUBTOTAL SOUTHBOUND   1,120   17,92     SUBTOTALNORTHBOUND   1,120   17,92			
INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE 56 INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE 56 SUBTOTAL SOUTHBOUND 1,120 17,92 SUBTOTALNORTHBOUND 1,120 17,92			560
INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE         56           SUBTOTAL SOUTHBOUND         1,120         17,92           SUBTOTALNORTHBOUND         1,120         17,92			560
SUBTOTAL SOUTHBOUND         1,120         17,92           SUBTOTALNORTHBOUND         1,120         17,92	INDIAN ROAD OUTSIDE LANE CLOSURE-BRIDGE RAISE		560
SUBTOTALNORTHBOUND 1,120 17,92	INDIAN ROAD OUTSIDE SHOULDER-POST BRIDGE RAISE		560
	SUBTOTAL SOUTHBOUND	1,120	17,920
	SUBTOTALNORTHBOUND		17,920
GRAND TOTAL 2,240 35,84	GRAND TOTAL	2,240	35,840

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION GUY ENGINEERING SERVICES, INC.				
DRAWN	ALM	09/18					
			l				
CHECKED	BDC	09/18	SUMMARY OF QUANTITIES (TRAFFIC)				
APPROVED	JRW	09/18					
SQUAD			(TRAITIO)				
COUNTY	K	ΑY	HIGHWAY/ROAD I-35 STATE JOB NO. 24432(15) SHEET NO. ATO				

#### LIFTING OF THE EXISTING BRIDGES:

THE EXISTING BRIDGES SHALL BE LIFTED USING FALSEWORK AND JACKING INSTALLED AT THE ABUTMENTS AND PIERS. SEE THE GENERAL NOTE "FALSEWORK AND JACKING" FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL SUBMIT THE PROPOSED BRIDGE RAISE SEQUENCE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF

- 1. CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 BACKUP JACKS FOR EACH SIZE/TYPE OF JACK USED.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 SETS OF BACKUP HYDRAULIC HOSES, PUMPS, AND MANIFOLDS.
- HYDRAULIC JACKS SHALL HAVE A MINIMUM CAPACITY OF 1.5 TIMES THE ANTICIPATED MAXIMUM JACK REACTION. ALL HYDRAULIC JACKS SHALL HAVE LOCKING COLLARS.
- 4. DURING THE BRIDGE RAISE, THE CONTRACTOR SHALL HAVE AUDIBLE AND VISUAL COMMUNICATION WITH ALL JACK LOCATIONS AT ALL TIMES.
- DOWEL BARS MAY BE PRESENT AT BEARING LOCATIONS. CONTRACTOR SHALL BE PREPARED TO CUT AND/OR REMOVE BARS IF PRESENT.
- PHASED LIFTING OPERATIONS ARE NECESSARY TO RAISE THE BRIDGE. TEMPORARY BOLSTERS WILL BE REQUIRED AT EACH JACK LOCATION.

ALL COSTS TO INSTALL FALSEWORK AND JACKING ON THE BRIDGE INCLUDING THE COST OF ALL MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER LUMP SUM OF "FALSEWORK AND JACKING."

	INDEX OF PRIDOF OFFETO						
	INDEX OF BRIDGE SHEETS						
NO.	DESCRIPTION						
AB01	GENERAL NOTES (BRIDGE)						
AB02	SUMMARY OF PAY QUANTITIES AND NOTES (BRIDGE)						
B001	BRIDGE RAISING SEQUENCE AND JACKING TABLES						
B002	GENERAL PLAN & ELEVATION - NORTH - BRIDGE "A"						
B003	GENERAL PLAN & ELEVATION - HIGHLAND - BRIDGE "B"						
B004	GENERAL PLAN & ELEVATION - HARTFORD - BRIDGE "C"						
B005	GENERAL PLAN & ELEVATION - COLEMAN - BRIDGE "D"						
B006	GENERAL PLAN & ELEVATION - CHRYSLER - BRIDGE "E"						
B007	GENERAL PLAN & ELEVATION - FERGUSON - BRIDGE "F"						
B008	GENERAL PLAN & ELEVATION - ADOBE - BRIDGE "G"						
B009	GENERAL PLAN & ELEVATION - INDIAN - BRIDGE "J"						
B010	ABUTMENT FALSEWORK TYPE 1						
B011	PIER FALSEWORK TYPE 1						
B012	PERMANENT BOLSTERS TYPE 1						
B013	ABUTMENT FALSEWORK TYPE 2						
B014	PIER FALSEWORK TYPE 2						
B015	PERMANENT BOLSTERS TYPE 2						
B016	ABUTMENT BOLSTER INSTALLATION						
B017	PIER BOLSTER INSTALLATION						
B018	APPROACH SLAB DETAILS						
B019	CONCRETE TRAFFIC RAIL (TR-4) ON APPROACH SLAB						
B020	SLOPEWALL AND DRAIN DETAILS						
B021-B022	HOME ROAD DEMOLITION - ROLLING ROAD BLOCK ALTERNATIVE						
B023	HOME ROAD DEMOLITION - CROSSOVER ALTERNATIVE						
B024-B027	HOME ROAD EXISTING DETAILS - BRIDGE "H"						

#### SUGGESTED BRIDGE RAISE SEQUENCE NOTES:

- INSTALL TRAFFIC CONTROL DEVICES ALONG MAINLINE I-35. SEE TRAFFIC CONTROL PLANS FOR MORE INFORMATION REGARDING MAINTENANCE OF TRAFFIC.
- REMOVE ANY APPURTENANCES AS NECESSARY. THIS INCLUDES ANY ATTACHED UTILITIES AND SIGNS. THIS MAY ALSO INCLUDE LOOSE OR DAMAGED CONCRETE CURB AND RAIL. REMOVE ALL LOOSE DEBRIS.
- INSTALL JACKING BRACKETS. USE A PACHOMETER OR OTHER APPROVED METHOD TO LOCATE EXISTING REINFORCEMENT PRIOR TO CORING/DRILLING HOLES FOR BRACKETS.
- 4. INSTALL JACKS, TRANSFER BEAMS, AND SHIMS. INSTALLATION OF JACKS SHALL BE COORDINATED WITH TIMELINE FOR JACKING OPERATIONS.
- 5. PERFORM ON-SITE COORDINATION MEETING WITH ENGINEERS, INSPECTORS, AND WORKERS TO DISCUSS PROCESSES AND SPECIFICATIONS FOR JACKING OPERATIONS.
- 6. CONFIRM ALL HYDRAULIC PUMPS ARE WORKING AND PROVIDE BACKUPS AS SPECIFIED.
- CLOSE LOCAL ROAD. SEE TRAFFIC CONTROL PLANS FOR MORE INFORMATION REGARDING MAINTENANCE OF TRAFFIC. EXCAVATE DOWN TO EXPOSE THE FULL THICKNESS OF SLAB TO TOP OF ABUTMENT SEAT.
- INSTALL 2 KIP COUNTERWEIGHT AT EACH ABUTMENT WINGWALL PILE (FOUR TOTAL) ON APPROACH PAVEMENT SIDE.

9. INSTALL CONTAINMENT SYSTEM TO PREVENT DEBRIS FROM FALLING ON I-35. INSTALL ADDITIONAL TRAFFIC CONTROL ALONG MAINLINE I-35. TRAFFIC CONTROL SHALL BE COORDINATED WITH RAISING OPERATIONS.

- 10. ENERGIZE JACKS. RAISE BRIDGE UNTIL VISIBLE GAP BETWEEN EXISTING SLAB AND SUBSTRUCTURE. CHECK ALL JACK REACTIONS, HYDRAULIC PUMPS, AND DEFLECTIONS. GAP AT ALL SUBSTRUCTURE ELEMENTS SHOULD BE EQUAL. ADJUST JACK PRESSURES UNTIL REACTIONS AT ABUTMENTS ARE EQUAL AND REACTIONS AT SHOULD FRIERS ARE EQUAL. RECORD JACK REACTIONS AS "TARGET REACTIONS." AFTER LIFT-OFF CHECK IS COMPLETE, CONTINUE RAISE.
- RAISE BRIDGE 8"±. MAINTAIN "TARGET REACTIONS" THROUGHOUT LIFT. SEE JACKING TABLE FOR MORE INFORMATION. LOCK ALL JACKS. INSTALL TEMPORARY STEEL BOLSTERS AT BRACKETS. SHIM TIGHT. RELEASE JACKS UNIFORMLY ACROSS ALL SUBSTRUCTURE LOCATIONS.
- 12. INSTALL SHIM STACK BELOW JACKS. RESET JACKS. ENERGIZE JACKS. CONTINUE RAISING BRIDGE WHILE MONITORING PRESSURES, REACTIONS, AND DEFLECTIONS.
- 13. REPEAT STEPS 11 AND 12 AS REQUIRED TO RAISE BRIDGE TO FINAL ELEVATION +3". LOCK ALL JACKS.
- 14. PRIOR TO INSTALLATION OF PREFABRICATED BOLSTERS, CLEAN BEARING SEATS WITH WIRE BRUSH AND COMPRESSED AIR. PERFORM VISUAL INSPECTION OF SEATS. IF ANY DEFECTS ARE NOTED, NOTIFY THE ENGINEER.
- 15. INSTALL BOLSTERS. SEE SUGGESTED BOLSTER INSTALLATION DETAILS.
- 16. ONCE BOLSTERS ARE PERMANENTLY INSTALLED, LOWER BRIDGE TO FINAL ELEVATION. RELEASE JACKS AND REMOVE FALSEWORK. PATCH HOLES AT PIERS AND CUT ANCHORS FLUSH AT ABUTMENTS. REMOVE COUNTERWEIGHTS FROM STEP NO. 8.
- 17. RE-OPEN I-35 TO 2 LANES IN EACH DIRECTION.
- 8. REMAINING IMPROVEMENTS TO STRUCTURE SHALL BE DONE WITH MINIMAL DISRUPTIONS TO MAINLINE TRAFFIC.
- AFTER WORK IS COMPLETED FOR BRIDGE AND ROADWAY IMPROVEMENTS, LOCAL ROAD MAY BE RE-OPENED TO TRAFFIC.

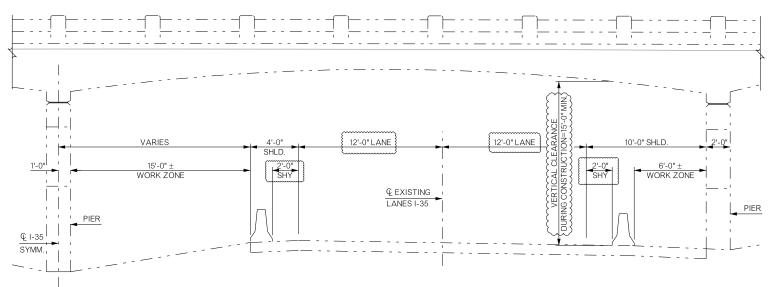
( REVISIONS )				
REV. NO.	DESCRIPTION	DATE		
- 1				

JACKING TABLE BRIDGES A-F								
SUBSTRUCTURE LOCATION	NUMBER OF	TOTAL LOAD	ANTICIPATED REACTION	MAXIMUM REACTION	MAX. DIFF. DISPLACEMENT			
	JACKS	KIP	KIP/JACK	KIP/JACK	IN			
ABUTMENT NO. 1	5	45	9	14	±1/2			
PIER NO. 1	2	420	210	225	±5/16			
PIER NO. 2	4	592	148	210	±5/16			
PIER NO. 3	2	420	210	225	±%6			
ABUTMENT NO. 2	5	45	9	14	±1/2			

JACKING TABLE BRIDGE G								
SUBSTRUCTURE LOCATION	NUMBER OF	TOTAL LOAD	ANTICIPATED REACTION	MAXIMUM REACTION	MAX. DIFF. DISPLACEMENT			
	JACKS	KIP	KIP/JACK	KIP/JACK	IN			
ABUTMENT NO. 1	5	54	11	15	±1/2			
PIER NO. 1	2	455	227	247	±5/16			
PIER NO. 2	4	645	161	234	-¾ TO +¼			
PIER NO. 3	2	455	227	247	±5/16			
ABUTMENT NO. 2	5	54	11	15.0	±1/2			

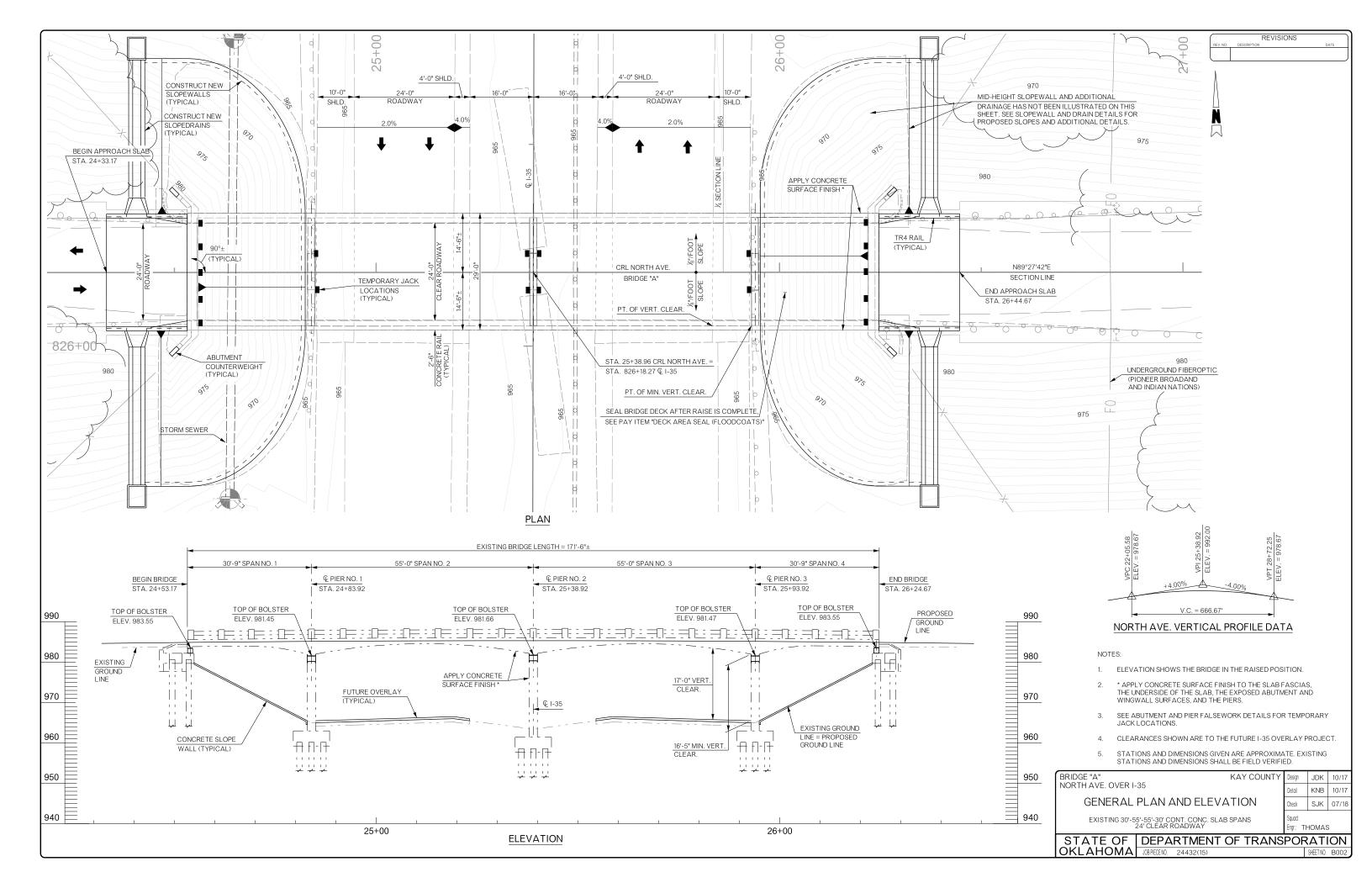
JACKING TABLE BRIDGE J								
SUBSTRUCTURE LOCATION	NUMBER OF	TOTAL LOAD	ANTICIPATED REACTION	MAXIMUM REACTION	MAX. DIFF. DISPLACEMENT			
	JACKS	KIP	KIP/JACK	KIP/JACK	IN			
ABUTMENT NO. 1	5	44	9	12	±1/2			
PIER NO. 1	2	364	182	197	±%6			
PIER NO. 2	4	520	130	182	-∜ <sub>16</sub> TO +½			
PIER NO. 3	2	364	182	197	±5/16			
ABUTMENT NO. 2	5	44	9	12.0	±1/2			

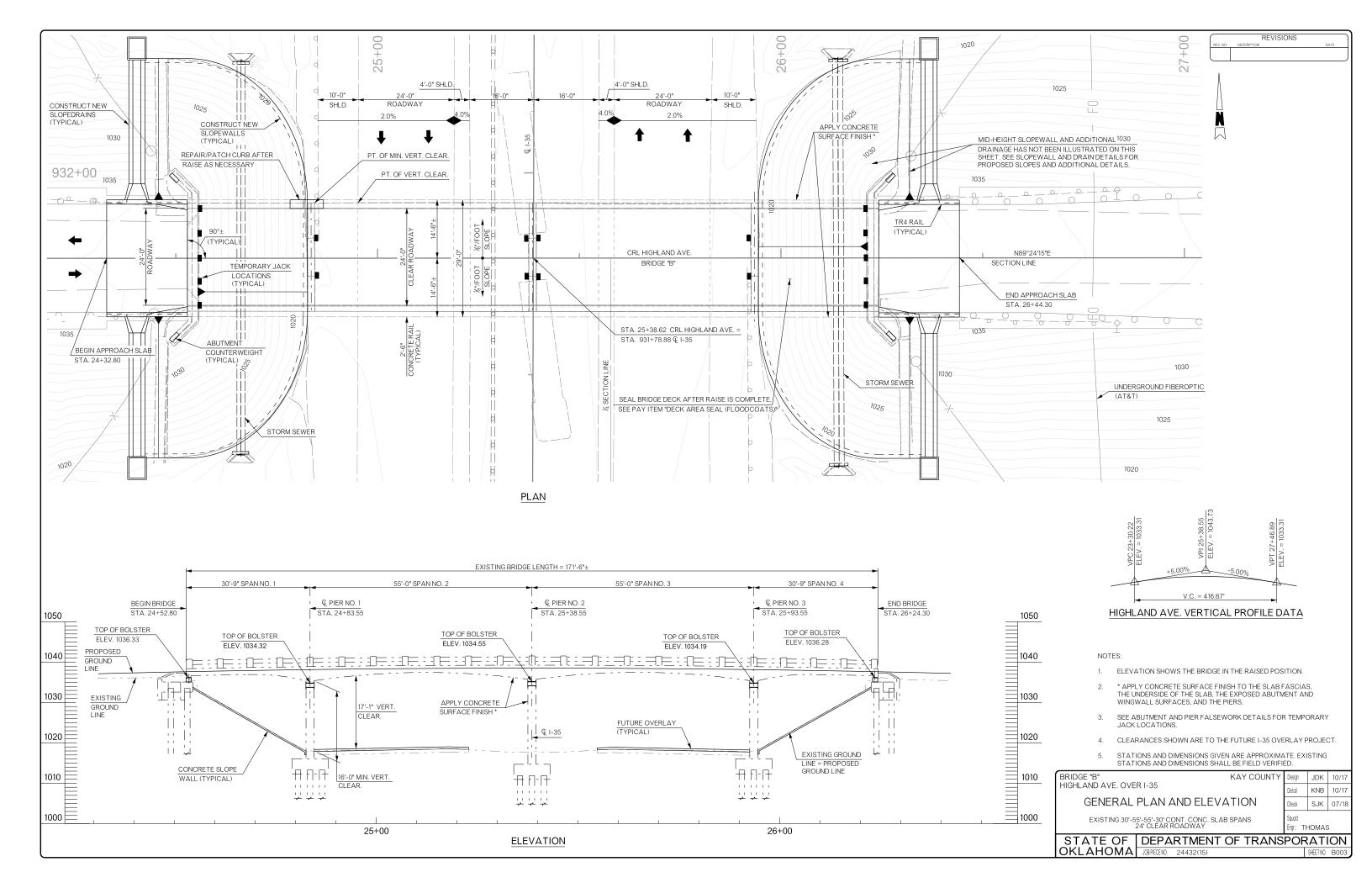
NOTE: ALL ANTICIPATED JACK REACTIONS WERE DETERMINED USING 1.0 \*DL. DIFFERENTIAL DISPLACEMENT IS MEASURED RELATIVE TO THE TOTAL DISPLACEMENT MEASURED AT THE ADJACENT SUBSTRUCTURE LOCATION(S). LIFTING OPERATIONS WILL BE STOPPED IF MAXIMUM JACK REACTIONS OR MAXIMUM DIFFERENTIAL DISPLACMENTS ARE APPROACHED UNTIL MITIGATION PLAN HAS BEEN APPROVED BY ON-SITE ENGINEER.

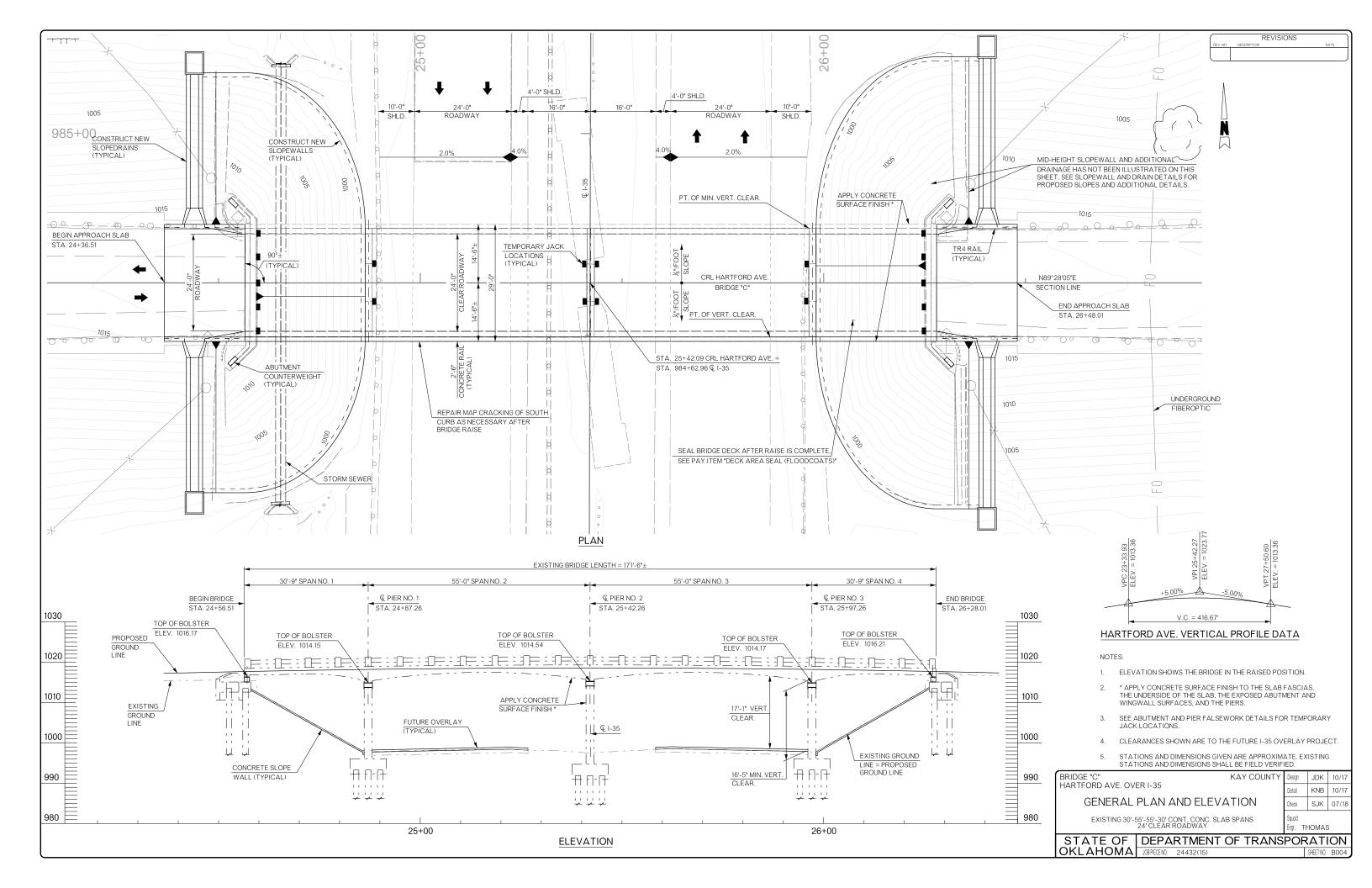


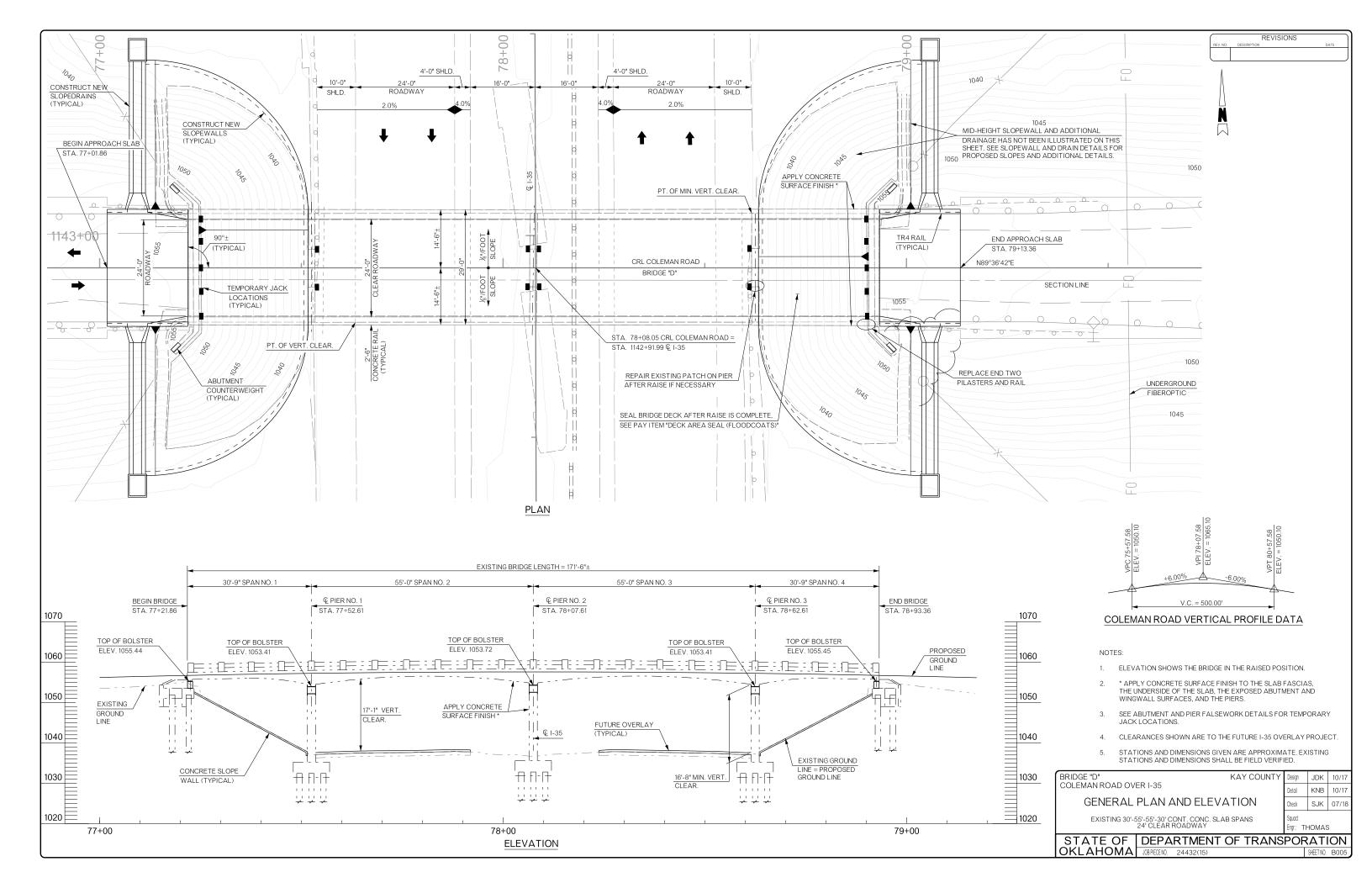
PRE-RAISE TYPICAL SECTION (SUGGESTED MAINTENANCE OF TRAFFIC)

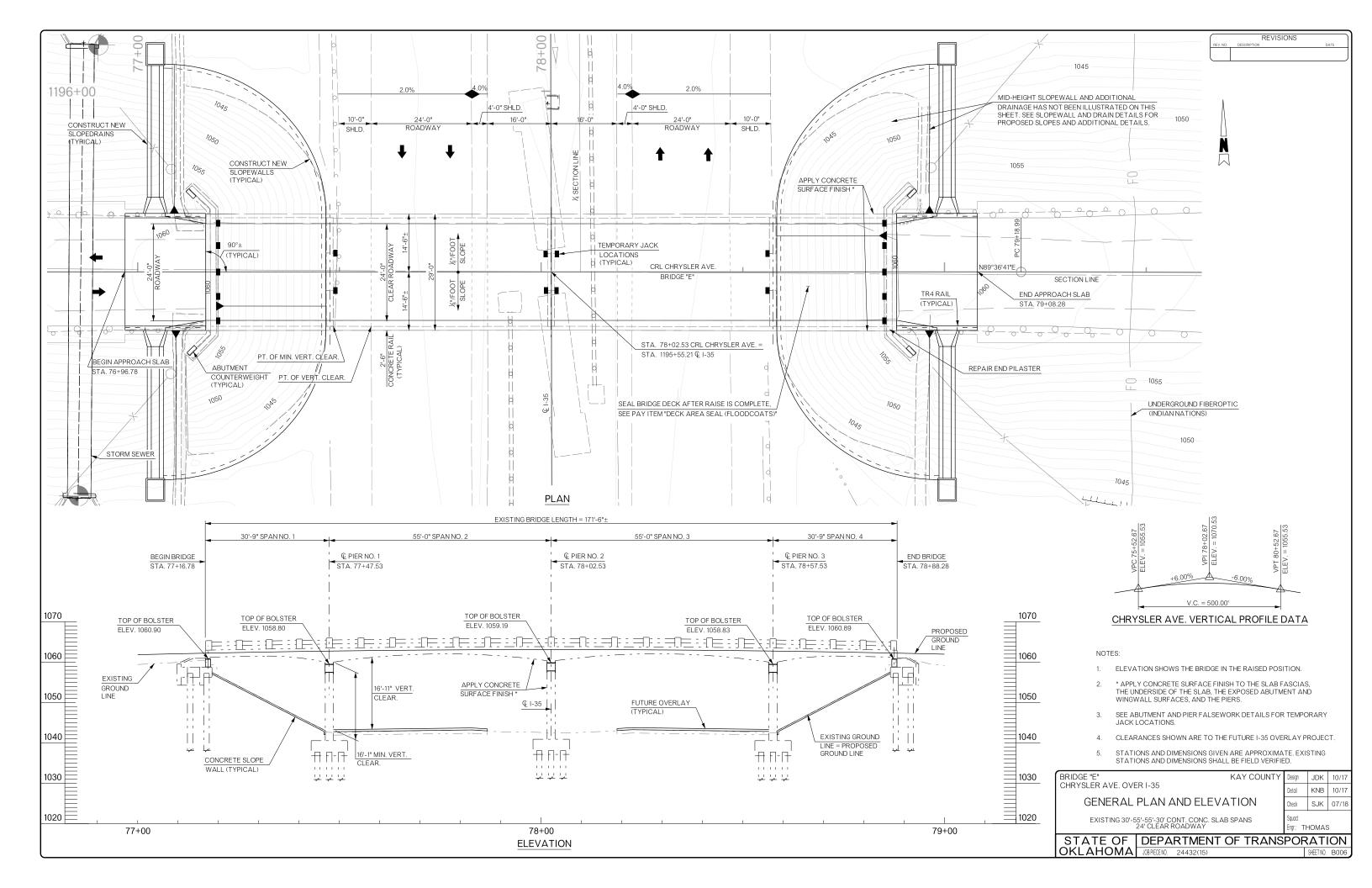
STATE OF DEPARTMENT OF TRANSPORTATION OKLAHOMA JOBPIECENO. 24432(15) SHEETINO. BOO1

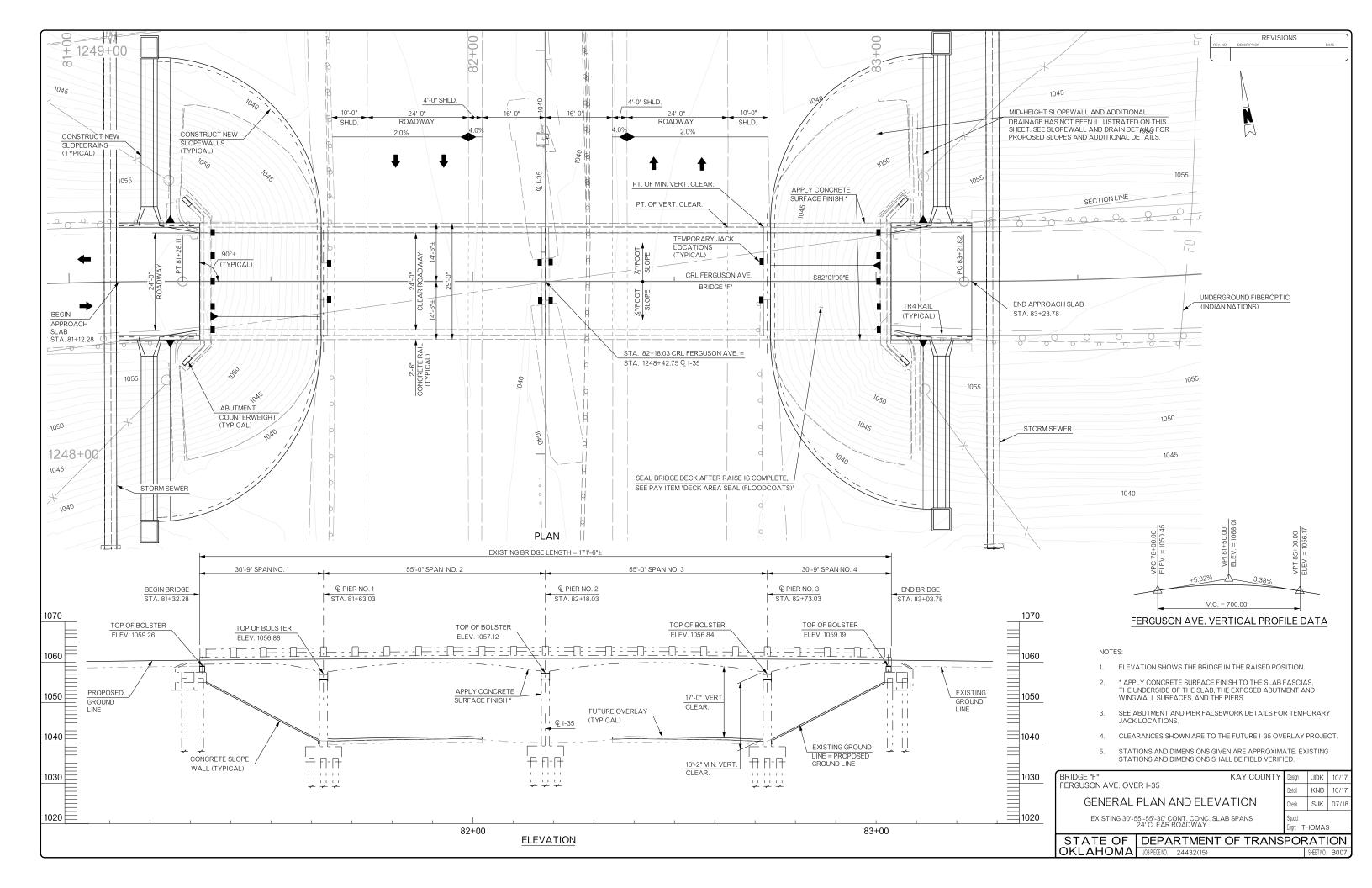


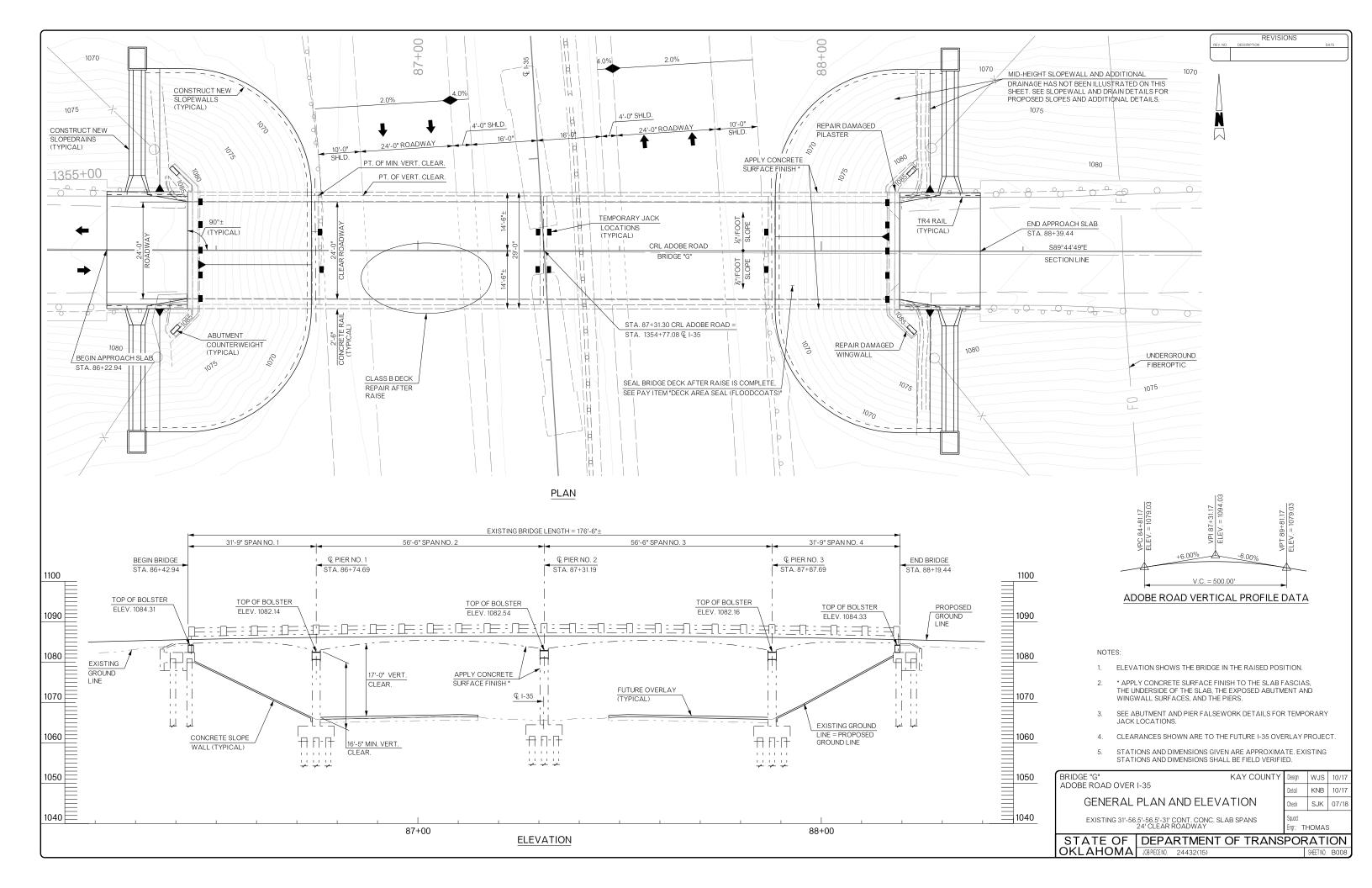


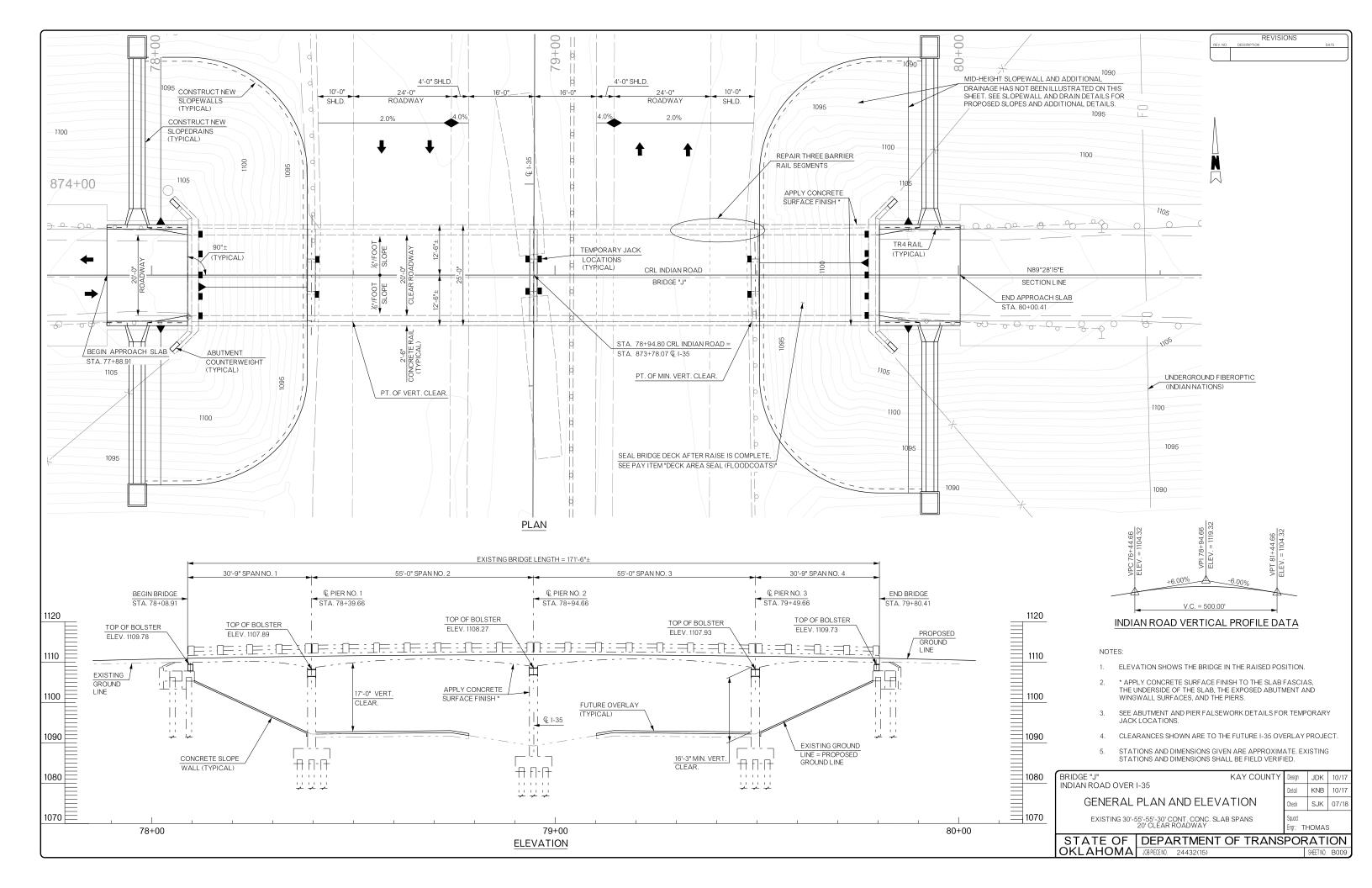


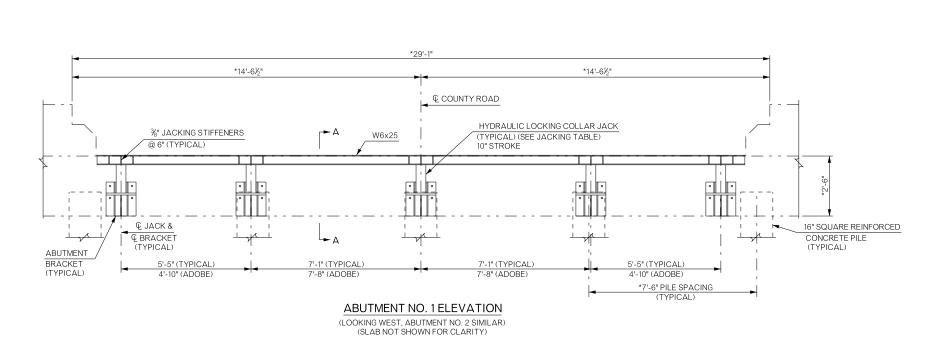


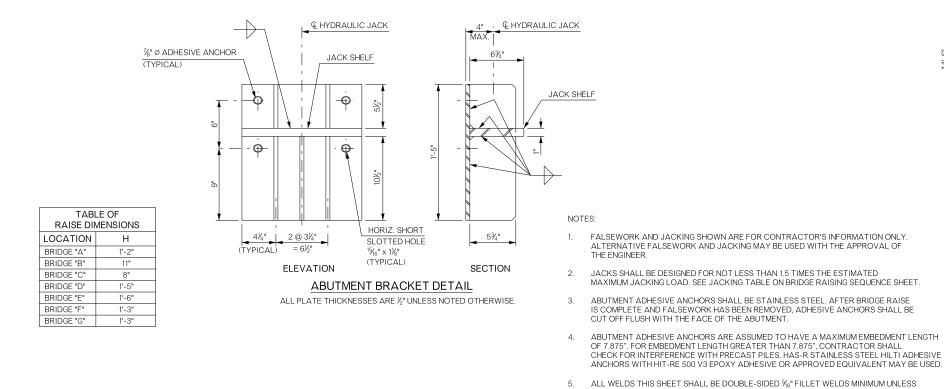


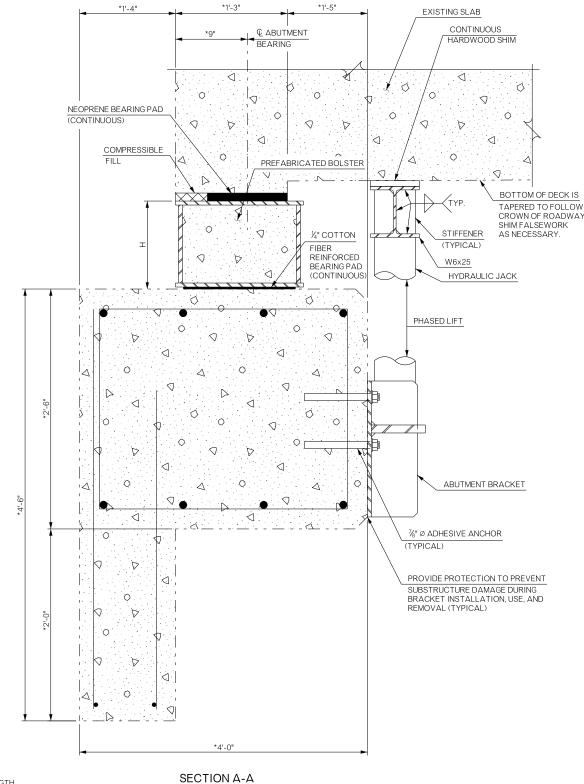












(PILES NOT SHOWN FOR CLARITY)

NOTED OTHERWISE. CJP WELDS MAY BE SUBSTITUTED FOR FILLET WELDS. NO FIELD WELDING IS PERMITTED FOR FABRICATION OF BOLSTERS AND FALSEWORK.

RAISE DIMENSION OF "H" BASED ON ELEVATIONS NOTED ON GENERAL PLAN AND ELEVATION SHEET. ADJUSTMENTS WILL BE NEEDED IF ELEVATIONS ARE FOUND TO BE

\* DIMENSIONS SHOWN ARE TAKEN FROM EXISTING PLANS. FIELD VERIFY.

8. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 GR. 50.

BRIDGE "A" - "G" COUNTY ROAD OVER I-35

ABUTMENT FALSEWORK TYPE 1

24'-0" CLEAR ROADWAY

STATE OF DEPARTMENT OF TRANSPORTATION OKLAHOMA JOBPIECENO. 24432(15) SHEETNO. B010

KAY COUNTY

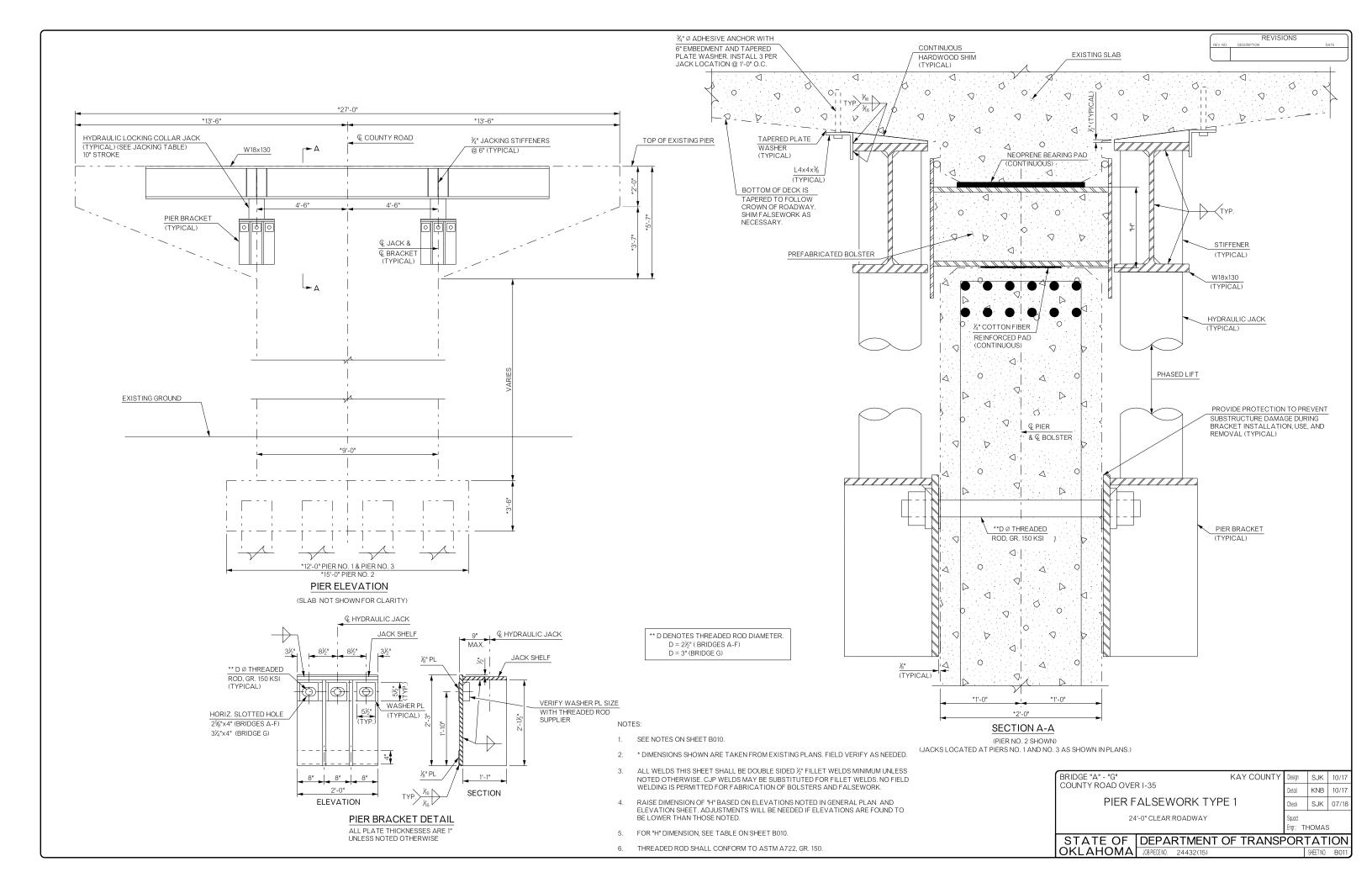
SJK

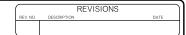
KNB 10/17

nn: THOMAS

SJK 07/18

REVISIONS





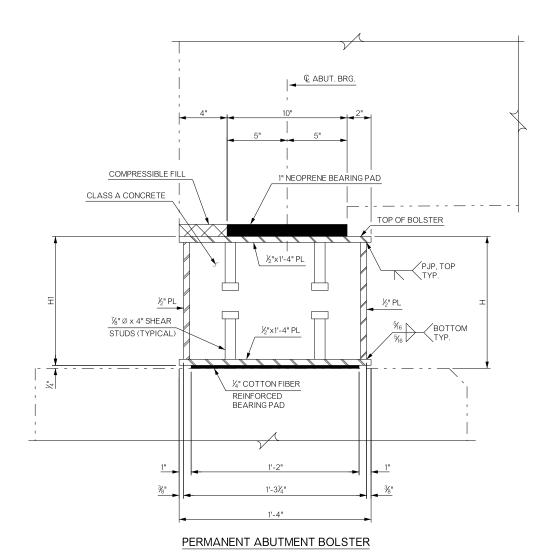
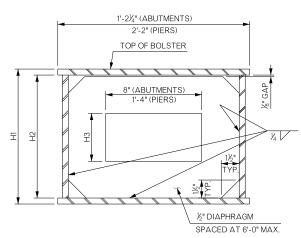
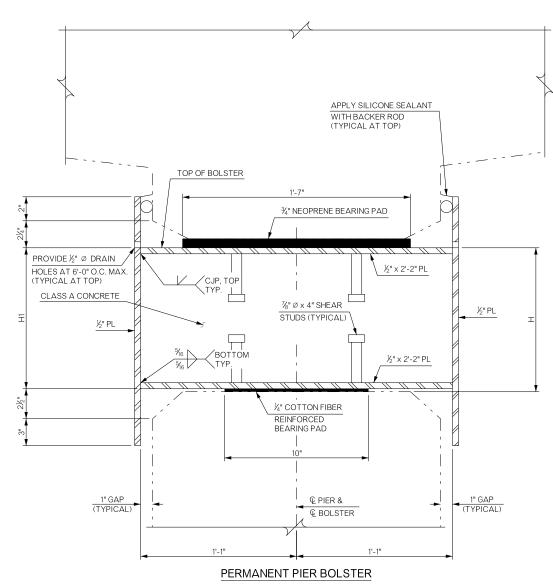


TABLE OF VARIABLES							
LOCATION	Н	H1	H2	НЗ			
BRIDGE "A"	1'-2"	1'-1¾"	1'-0¾"	6"			
BRIDGE "B"	11"	10¾"	9¾"	4"			
BRIDGE "C"	8"	7¾"	6¾"	4"			
BRIDGE "D"	1'-5"	1'-4¾"	1'-3¾"	9"			
BRIDGE "E"	1'-6"	1'-5¾"	1'-4¾"	10"			
BRIDGE "F"	1'-3"	1'-2¾"	1'-1¾"	7"			
BRIDGE "G"	1'-3"	1'-1¾"	1'-1¾"	7"			



# SQUARING DIAPHRAGM

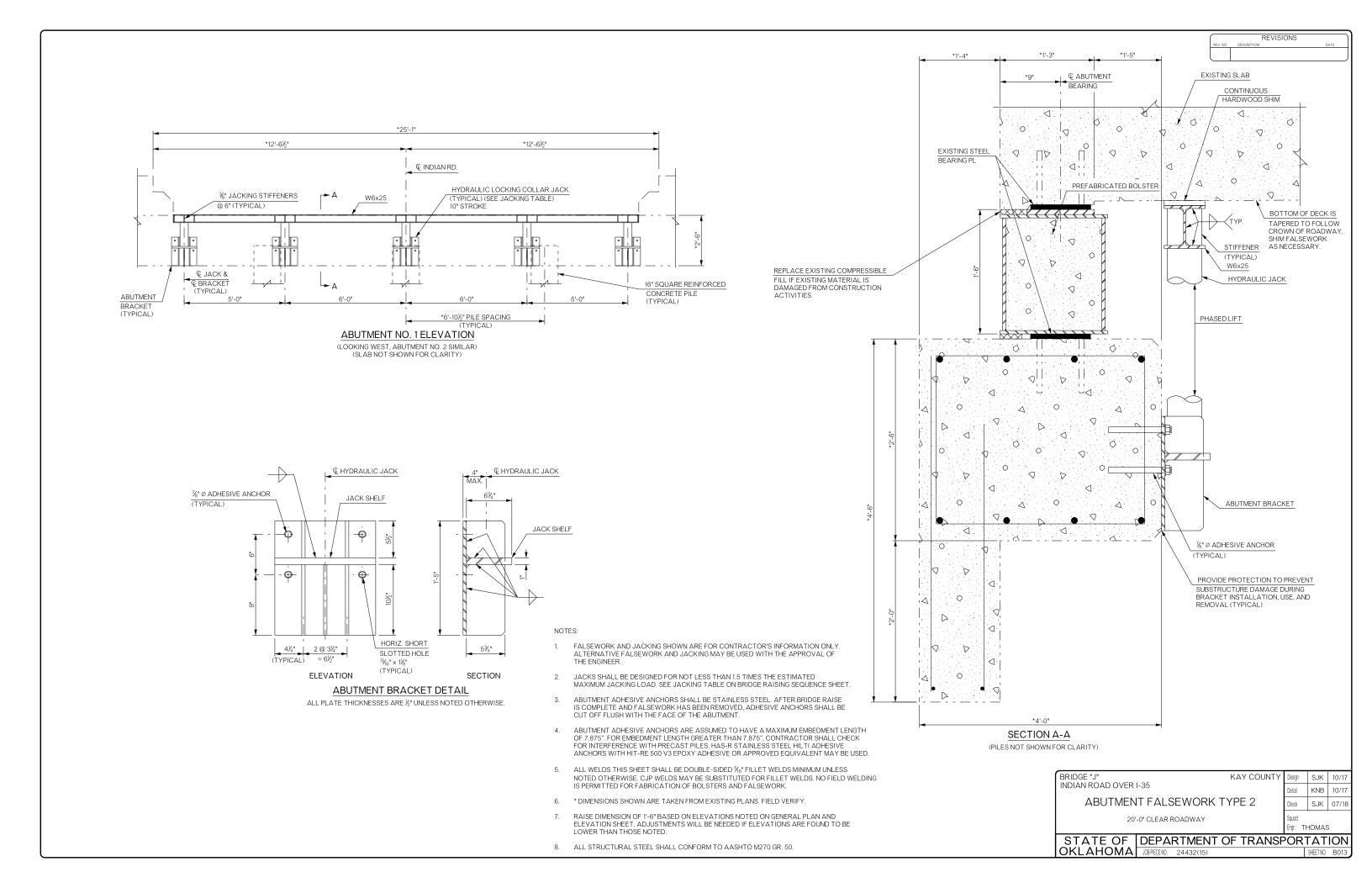
(ABUTMENT SHOWN, PIER SIMILAR) NOTE: ADJUST DIAPHRAGM AS NECESSARY TO MISS STUDS.

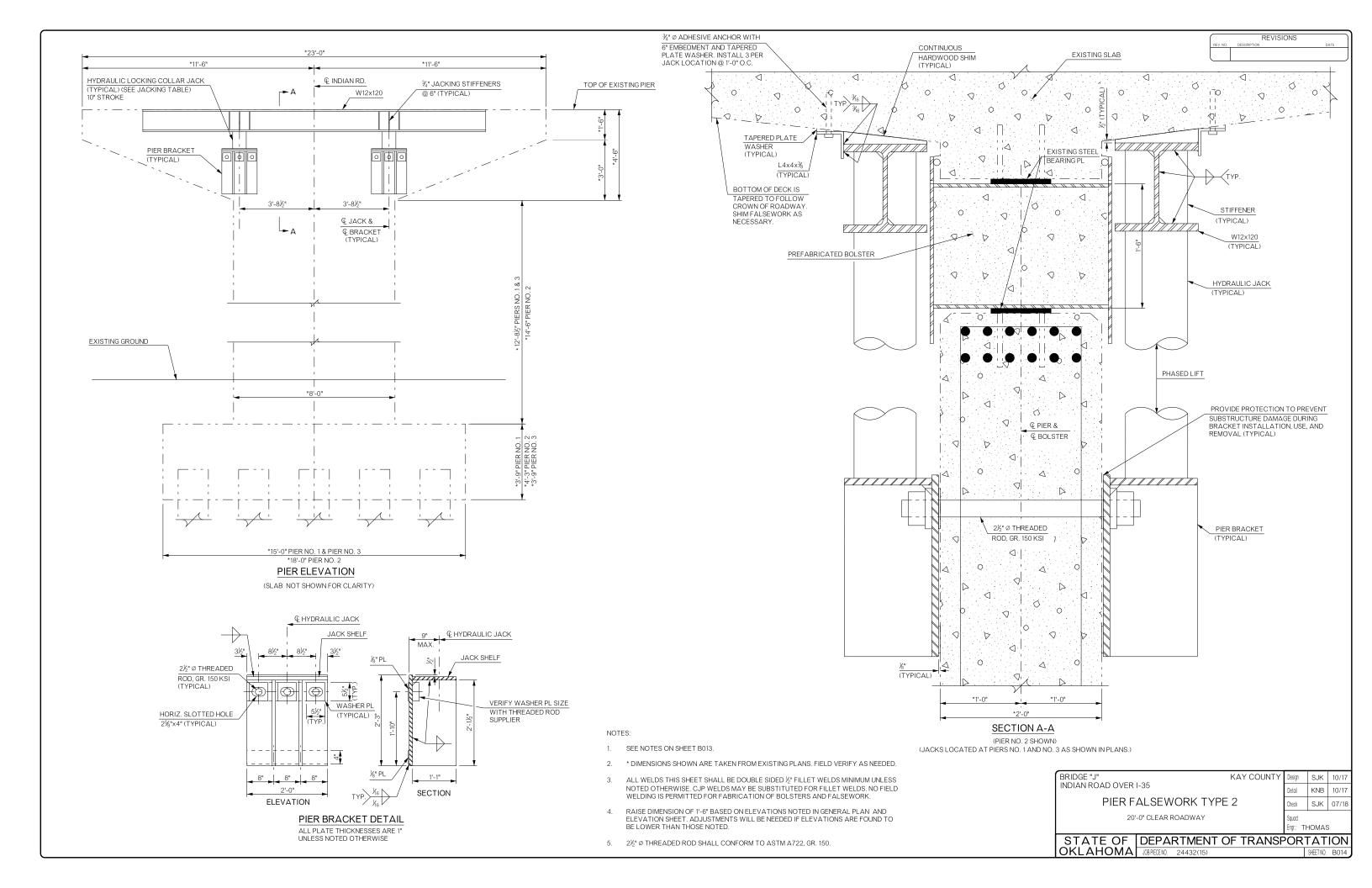


### NOTES:

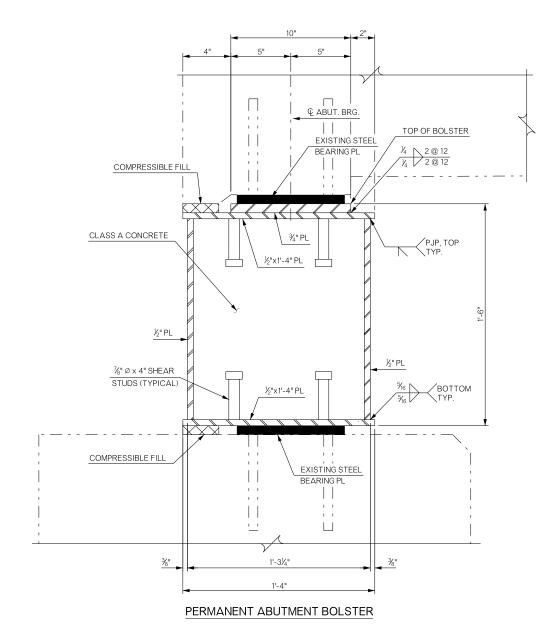
- 1. FIELD VERIFY SUBSTRUCTURE DIMENSIONS PRIOR TO FABRICATION OF BOLSTERS. BOLSTER LENGTH SHALL MATCH THE EXISTING SUBSTRUCTURE WIDTH OF 27'-0"±.
- 2. NO FIELD WELDING IS PERMITTED FOR FABRICATION OF BOLSTERS.
- 3. CONTRACTOR SHALL TAKE ANY NECESSARY STEPS TO ELIMINATE AIR POCKETS DURING BOLSTER CONCRETE PLACEMENT.
- 4. SHEAR STUDS SHALL BE SPACED AT 1'-0" MAX. O.C. SPACINGS. STUDS SHALL BE PLACED AT ALTERNATING LOCATIONS BOTH TRANSVERSELY ACROSS AND LONGITUDINALLY ALONG THE BOLSTER. TOTAL OF STUDS FOR EACH BOLSTER = 54.
- 5. SEALANT AND BACKER ROD ARE INCLUDED FOR PAYMENT WITH THE BID ITEM "STRUCTURAL STEEL".
- A BOLSTER GAP OF 1 INCH ON EACH SIDE OF PIER HAS BEEN PROVIDED TO ALLOW FOR INSTALLATION OF BOLSTER BY ACCOMMODATING POTENTIAL FABRICATION AND CONSTRUCTION TOLERANCES OF THE STEEL BOLSTER AND EXISTING PIER CONCRETE. GAP SHALL BE CONFIRMED TO BE ADEQUATE FOR INSTALLATION WITH FIELD VERIFICATION.

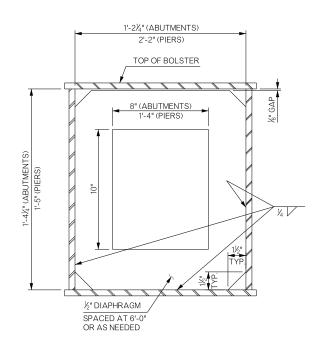
1	BRIDGE "A" - "G"	21.05		KAY COUNTY	Design	SJK	05/18
	COUNTY ROAD OVER I-35					KNB	06/18
	PERMANENT BOLSTER TYPE 1						07/18
	24'-0" CLEAR ROADWAY					HOMAS	3
	STATE OF	DEPAR	RTMENT C	OF TRANSF	POR'	TAT	ION
	OKLAHOMA	JOB PIECE NO.	24432(15)			SHEET NO.	B012





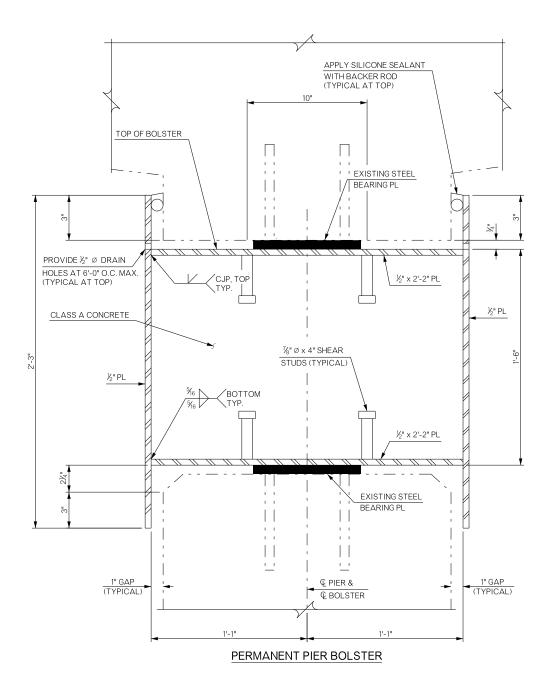






# SQUARING DIAPHRAGM

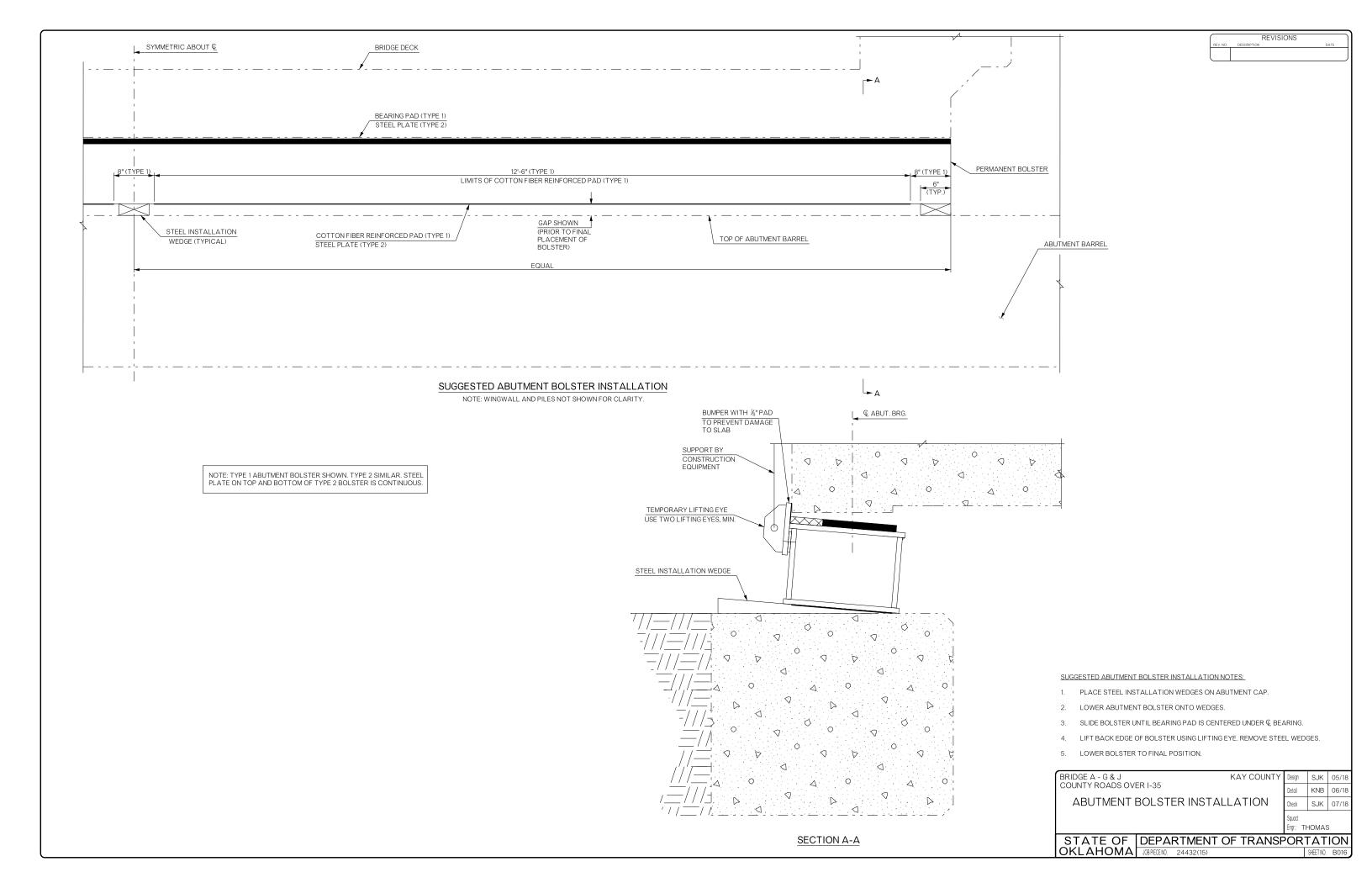
(ABUTMENT SHOWN, PIER SIMILAR) NOTE: ADJUST DIAPHRAGM AS NECESSARY TO MISS STUDS.



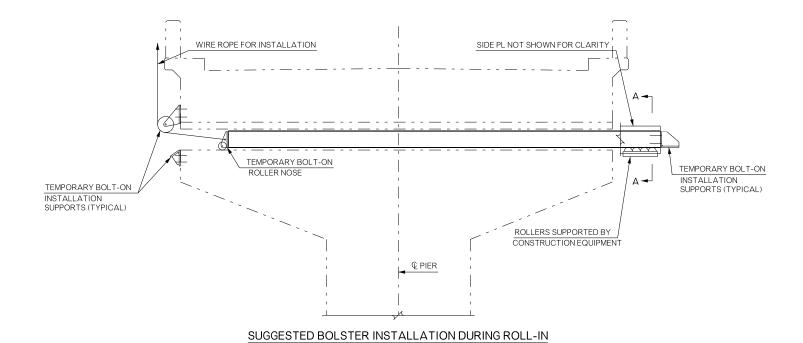
### NOTES:

- FIELD VERIFY SUBSTRUCTURE DIMENSIONS PRIOR TO FABRICATION OF BOLSTERS. BOLSTER LENGTH SHALL MATCH THE EXISTING SUBSTRUCTURE WIDTH OF 23'-0"±.
- 2. NO FIELD WELDING IS PERMITTED FOR FABRICATION OF BOLSTERS.
- 3. FIELD VERIFY EXISTING BEARING PL DIMENSIONS PRIOR TO FABRICATION.
- CONTRACTOR SHALL TAKE ANY NECESSARY STEPS TO ELIMINATE AIR POCKETS DURING BOLSTER CONCRETE PLACEMENT.
- SHEAR STUDS SHALL BE SPACED AT 1'-0" MAX. O.C. SPACINGS. STUDS SHALL BE PLACED AT ALTERNATING LOCATIONS BOTH TRANSVERSELY ACROSS AND LONGITUDINALLY ALONG THE BOLSTER. TOTAL OF STUDS FOR EACH BOLSTER = 46.
- SEALANT AND BACKER ROD ARE INCLUDED FOR PAYMENT WITH THE BID ITEM "STRUCTURAL STEEL".
  - A BOLSTER GAP OF 1 INCH ON EACH SIDE OF PIER HAS BEEN PROVIDED TO ALLOW FOR INSTALLATION OF BOLSTER BY ACCOMMODATING POTENTIAL FABRICATION AND CONSTRUCTION TOLERANCES OF THE STEEL BOLSTER AND EXISTING PIER CONCRETE. GAP SHALL BE CONFIRMED TO BE ADEQUATE FOR INSTALLATION WITH

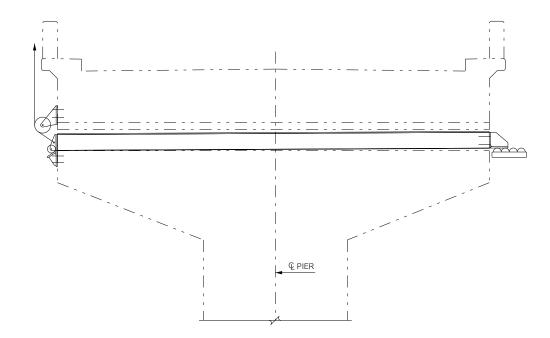
BRIDGE "J" KAY COUNTY				Design	SJK	05/18
INDIAN ROAD OVER I-35				Detail	KNB	06/18
PERMANENT BOLSTER TYPE 2				Check	SJK	07/18
20'-0" CLEAR ROADWAY						
						3
STATE OF	DEPARTM	/ENT OF	TRANSF	OR	ΓΑΤ	ION
OKLAHOMA	JOB PIECE NO. 2443	32(15)			SHEET NO.	B015



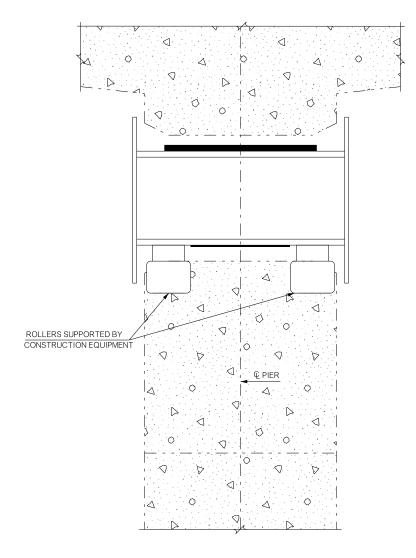
REV.NO. DESCRIPTION DATE



NOTE: TYPE 1 PIER BOLSTER SHOWN. TYPE 2 SIMILAR.



SUGGESTED BOLSTER INSTALLATION AT SET DOWN



# SECTION A-A

## SUGGESTED PIER BOLSTER INSTALLATION NOTES:

- INSTALL TEMPORARY BOLTED-ON INSTALLATION SUPPORTS. NOTE: TEMPORARY SUPPORTS BOLTED TO THE SUPERSTRUCTURE SHALL BE INSTALLED PRIOR TO BRIDGE RAISE.
- $2. \hspace{0.5cm} \hbox{LIFT BOLSTER AND SET ROLLER NOSE ON PIER WHILE SUPPORTING TRAILING END OF BOLSTER ON ROLLERS.} \\$
- 3. ROLL BOLSTER INTO FINAL POSITION USING WIRE ROPES.
- 4. TEMPORARY SUPPORT GEOMETRY SHALL BE SET SO AS THE ROLLER NOSE TRANSITIONS OFF THE PIER AND ONTO THE SUPPORT, THE LEADING END OF THE BOLSTER IS LOWERED INTO THE FINAL POSITION.
- 5. LOWER THE SUPPORT FOR THE TRAILING END OF THE BOLSTER TO SET BOLSTER ONTO PIER.

1	BRIDGE A - G & J	-D   05		KAY COUNTY	Design	SJK	05/18
	COUNTY ROADS OVER I-35					KNB	06/18
	PIER BOLSTER INSTALLATION					SJK	07/18
					Squad:		
					Engr.: T	HOMAS	3
	STATE OF	DEPAR	RTMENT (	OF TRANSF	POR	TAT	ION
	OKLAHOMA	JOB PIECE NO.	24432(15)			SHEET NO.	B017

	APPROACH SLAB QUANTITIES							
	ITEM	UNIT	APPROACH SLAB NO. 1	APPROACH SLAB NO. 2				
	25'-0" x 20'-	0" APPF	ROACH SLAB					
2 1	APPROACH SLAB	S.Y.	55.6	55.6				
	SAW-CUT GROOVING	S.Y.	50.8	50.8				
	CONCRETE RAIL (TR4)	L.F.	40.0	40.0				
	29'-0" x 20'-	0" APPF	ROACH SLAB					
3 1	APPROACH SLAB	S.Y.	64.5	64.5				
	SAW-CUT GROOVING	S.Y.	59.7	59.7				
	CONCRETE RAIL (TR4)	L.F.	40.0	40.0				

- 1 THE DEPARTMENT CONSIDERS THE COST OF CONCRETE, REINFORCING STEEL (INCLUDING SR1 AND SR2 BARS), BACKER ROD, RAPID CURE JOINT SEALANT, POLYSTYRENE AND POLYETHYLENE SHEETING TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF "APPROACH SLAB".
- (2) THERE IS AN ESTIMATED 23.4 CY OF CLASS AA CONCRETE AND AN ESTIMATED 4,340 LB. OF EPOXY COATED REINFORCING STEEL IN EACH APPROACH SLAB.
- (3) THERE IS AN ESTIMATED 27.2 CY OF CLASS AA CONCRETE AND AN ESTIMATED 4,920 LB. OF EPOXY COATED REINFORCING STEEL IN EACH APPROACH SLAB.

	T	ABLE O	F VARIA	ABLES		
LOCATION	А	В	С	D	E	F
BRIDGE "A"	29'-0"	14'-6"	13'-5"	15	44	2'-5½"
BRIDGE "B"	29'-0"	14'-6"	13'-5"	15	44	2'-21/2"
BRIDGE "C"	29'-0"	14'-6"	13'-5"	15	44	1'-11½"
BRIDGE "D"	29'-0"	14'-6"	13'-5"	15	44	2'-8½"
BRIDGE "E"	29'-0"	14'-6"	13'-5"	15	44	2'-9½"
BRIDGE "F"	29'-0"	14'-6"	13'-5"	15	44	2'-6½"
BRIDGE "G"	29'-0"	14'-6"	13'-5"	15	44	2'-7½"
BRIDGE "J"	25'-0"	12'-6"	11'-5"	13	38	2'-10"

			B BAR L	IST R BRIDGE)
(EP	OXY CO	ATED RE	EINFORC	ING)
MARK	SIZE	NO.	FORM	LENGTH
25	'-0"x20'-(	O" APPRO	DACH SL	AB
AT1	#4	42	STR.	12'-2"
AT2	#4	25	STR.	24'-8"
AL1	#4	26	STR.	19'-8"
AL2	#9	38	STR.	19'-8"
AL3	#4	38	BNT.	6'-10"
SR1	#5	106	BNT.	4'-1"
SR2	#5	16	BNT.	VARIES
SD1	#4	10	STR.	2'-0"
29	'-0"x20'-0	O" APPRO	DACH SL	AB
AT1	#4	42	STR.	14'-2"
AT2	#4	25	STR.	28'-8"
AL1	#4	30	STR.	19'-8"
AL2	#9	44	STR.	19'-8"
AL3	#4	38	BNT.	6'-10"
SR1	#5	106	BNT.	4'-1"
SR2	#5	16	BNT.	VARIES
SD1	#4	10	STR.	2'-0"

APPROACH SLAB

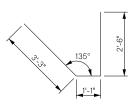
AT1#4

AL1#4

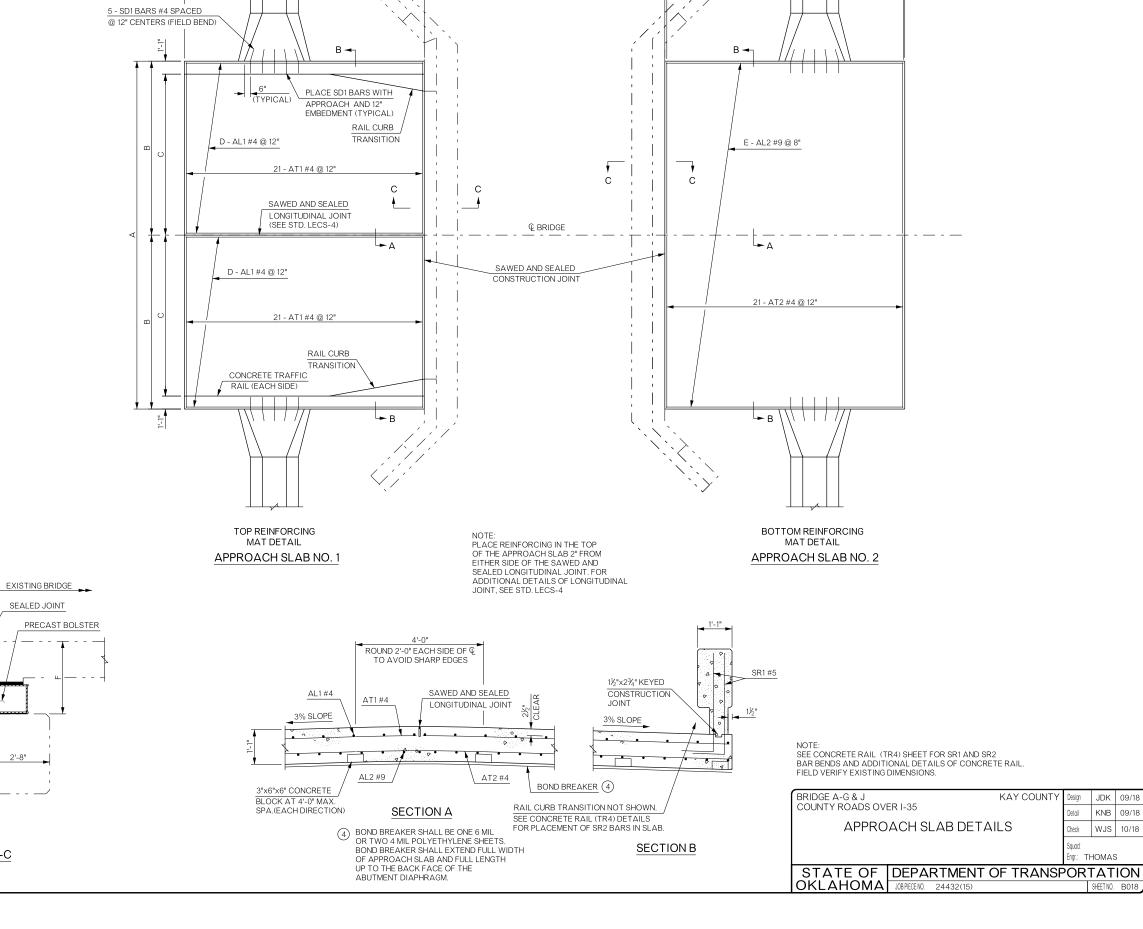
SECTION C-C

AL3 #4

NOTE: AL3 BARS SHALL BE FIELD CUT TO FIT WITHIN LIMITS OF APPROACH SLAB TO PROVIDE PROPER CLEARANCE.



AL3 #4 x 6'-10"



BEGIN

BRIDGE

20'-0"

SEE SLOPE DRAIN
DETAILS SHEET

APPROACH

SLAB NO. 1

REVISIONS

FND

APPROACH

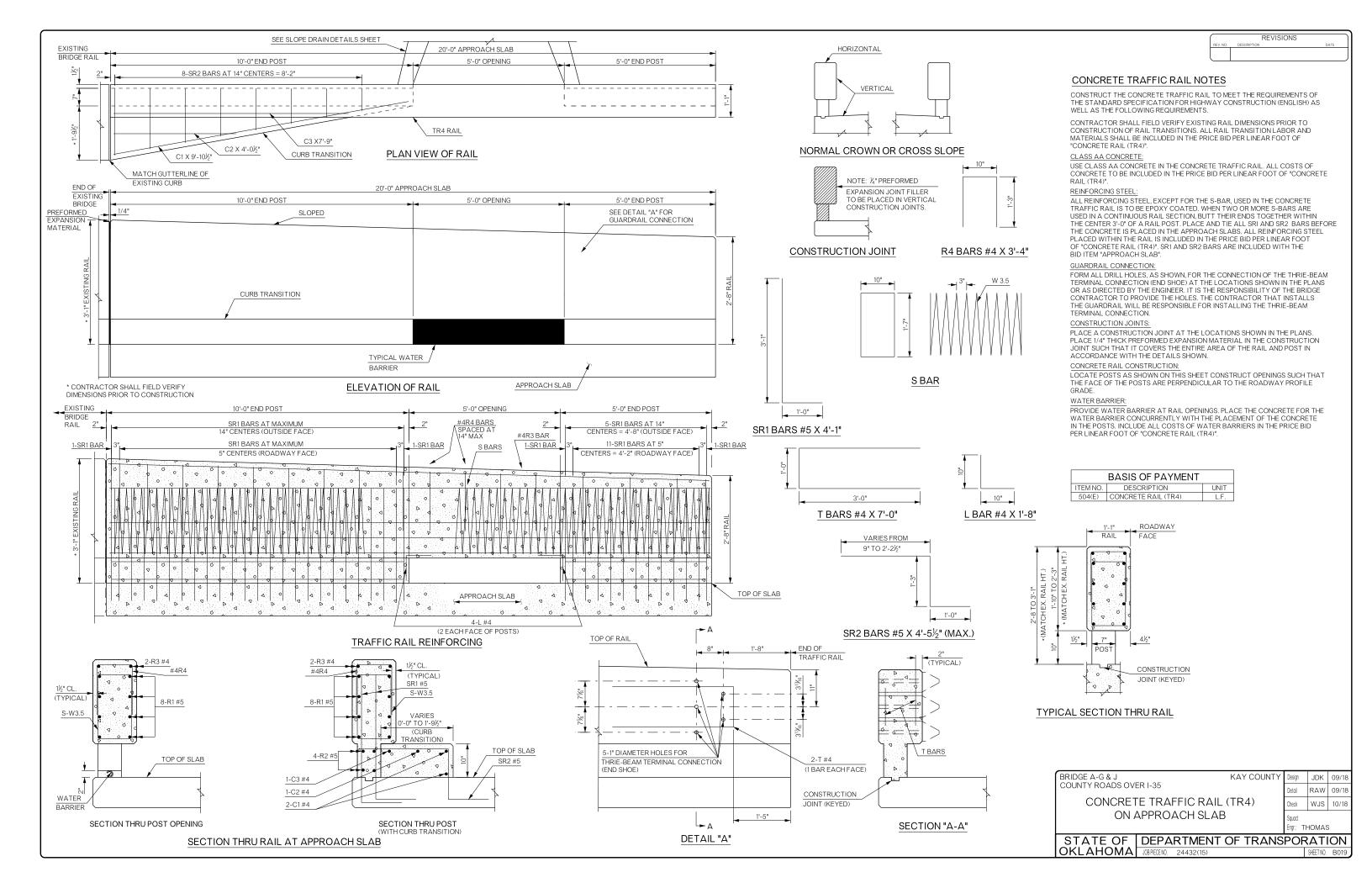
SLAB NO. 2

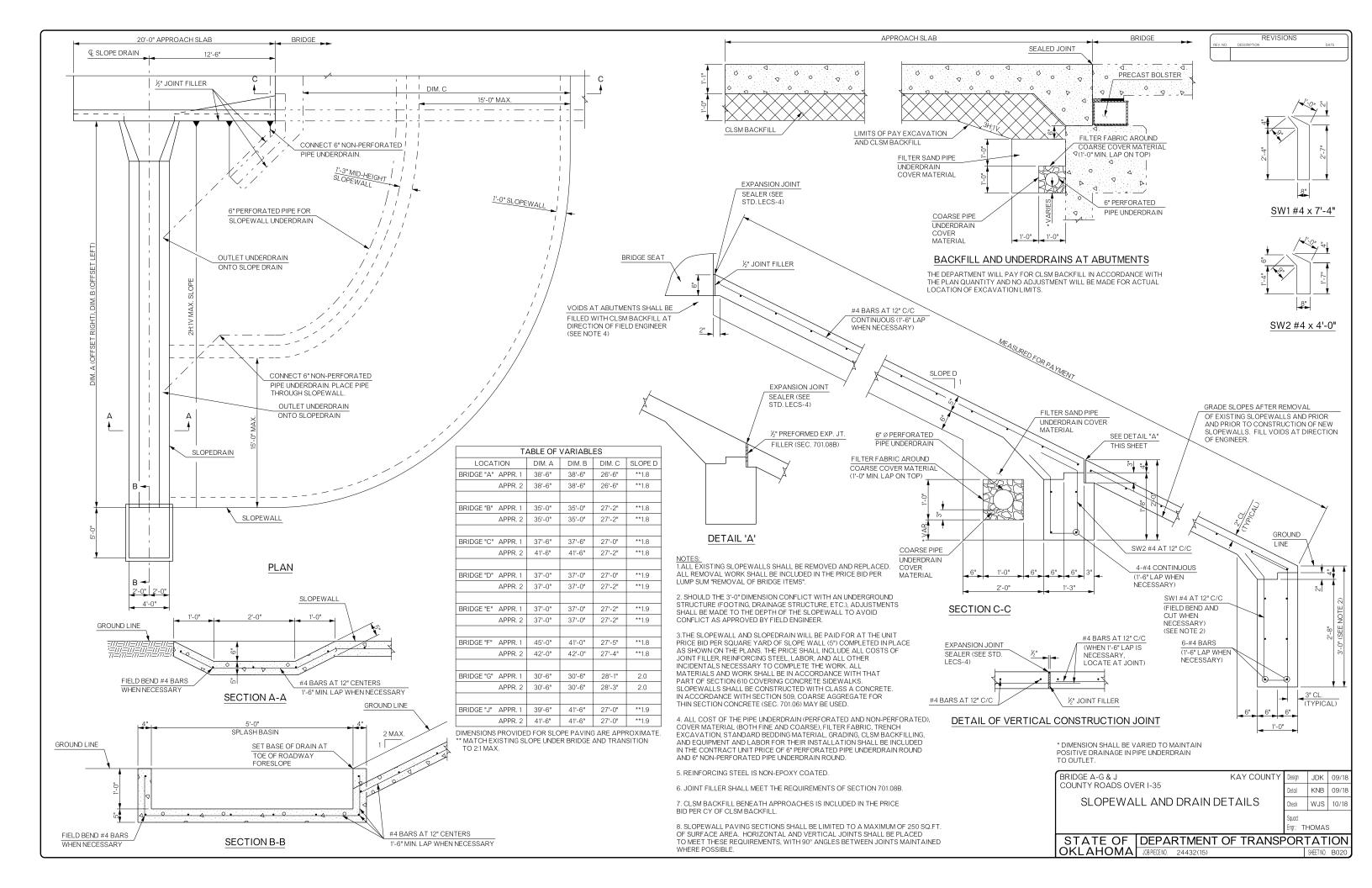
20'-0"

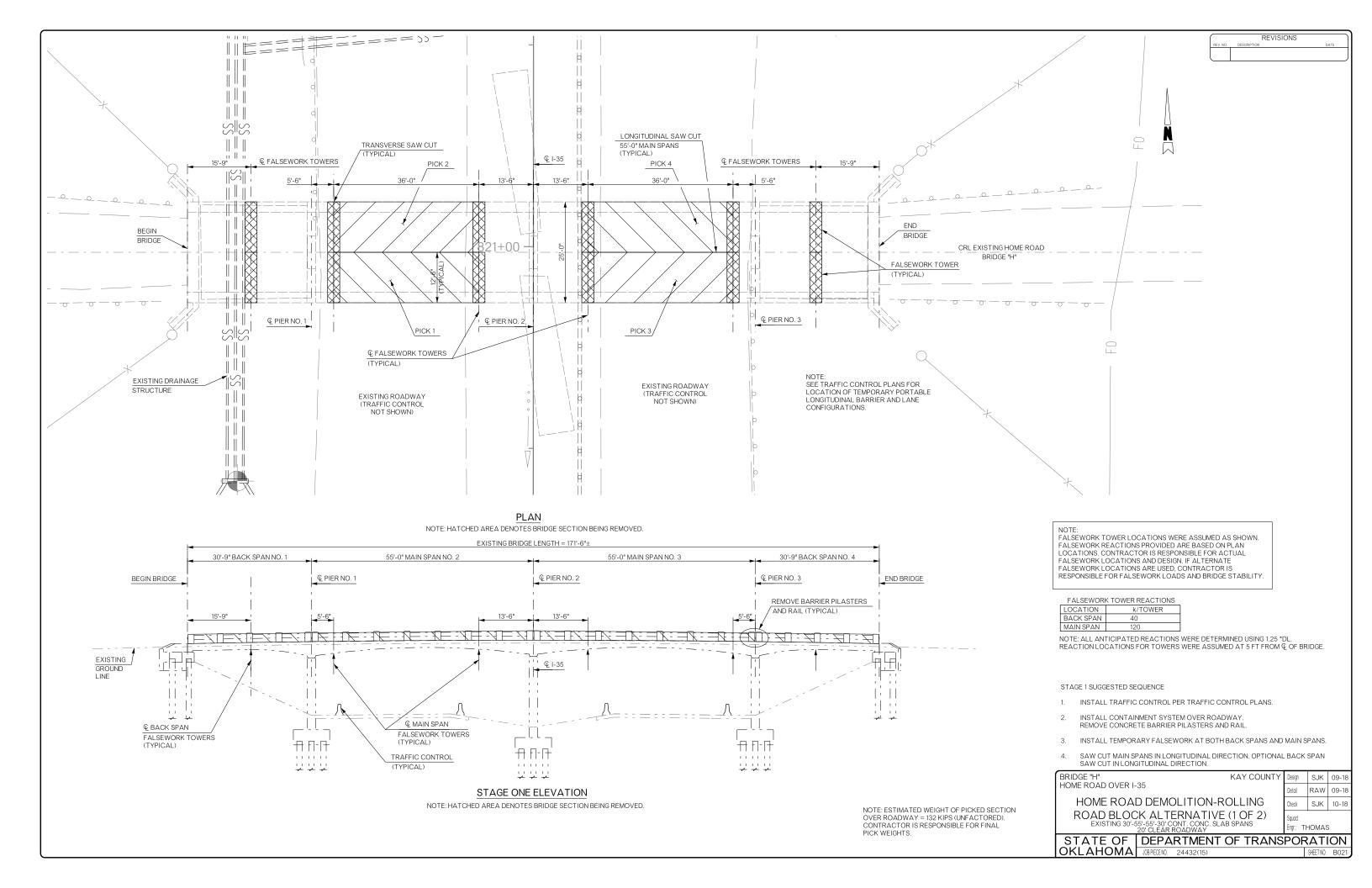
SEE CONCRETE RAIL (TR4) DETAILS

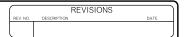
FOR SR1 AND SR2 SPACING

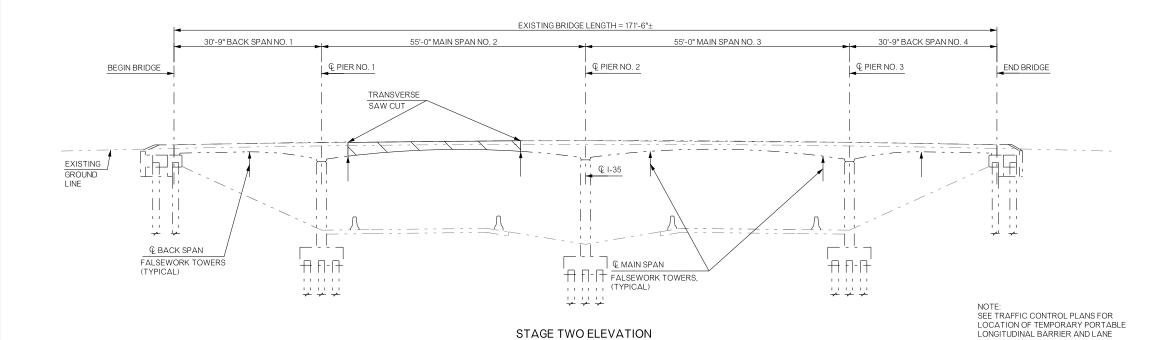
BRIDGE











NOTE: HATCHED AREA DENOTES BRIDGE SECTION BEING REMOVED.

### 30'-9" BACK SPAN NO. 1 55'-0" MAIN SPAN NO. 2 55'-0" MAIN SPAN NO. 3 30'-9" BACK SPAN NO. 4 BEGIN BRIDGE € PIER NO. 1 © PIER NO. 2 Q PIER NO. 3 END BRIDGE TRANSVERSE SAW CUT EXISTING ℚ I-35 GROUND LINE © BACK SPAN FALSEWORK TOWERS <del>H</del> FI-FI C MAIN SPAN (TYPICAL) FALSEWORK TOWERS, (TYPICAL) PROPOSED GROUND LINE NOT SHOWN. SEE ROADWAY PLANS FOR PROPOSED

EXISTING BRIDGE LENGTH = 171'-6"±

# STAGE THREE ELEVATION

GRADING LIMITS (TYPICAL)

NOTE: HATCHED AREA DENOTES BRIDGE SECTION BEING REMOVED.

### STAGE 2 SUGGESTED SEQUENCE:

- SAW CUT FIRST MAIN SPAN IN TRANSVERSE DIRECTION AT LOCATIONS NOTED ON PLANS.
- 2. RIG PICK 1 TO THE CRANE.
- 3. BEGIN ROLLING ROAD BLOCK.
- 4. PICK AND REMOVE PICK 1. RELEASE ROLLING ROAD BLOCK.
- 5. RIG PICK 2 TO THE CRANE.

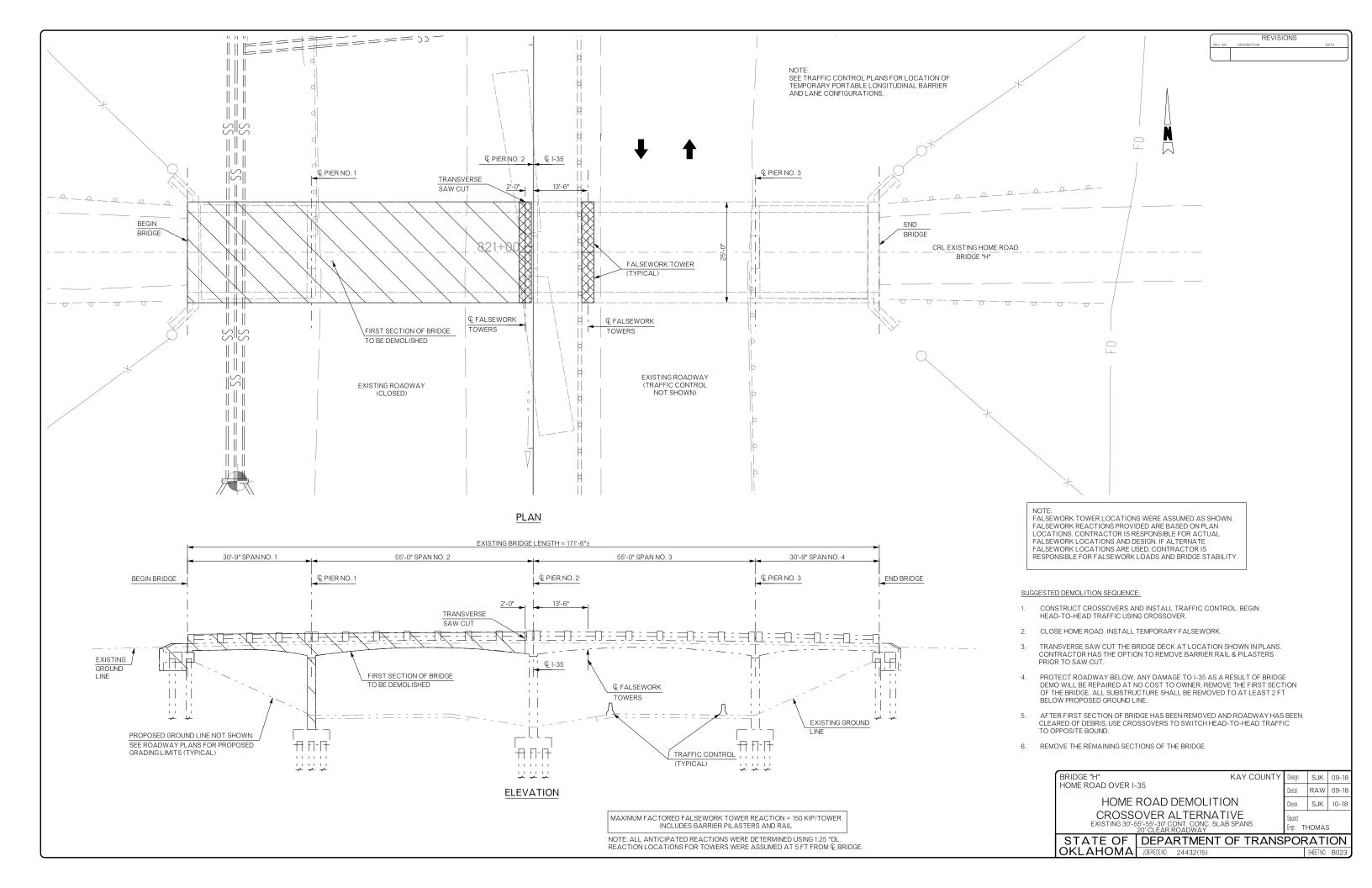
CONFIGURATIONS.

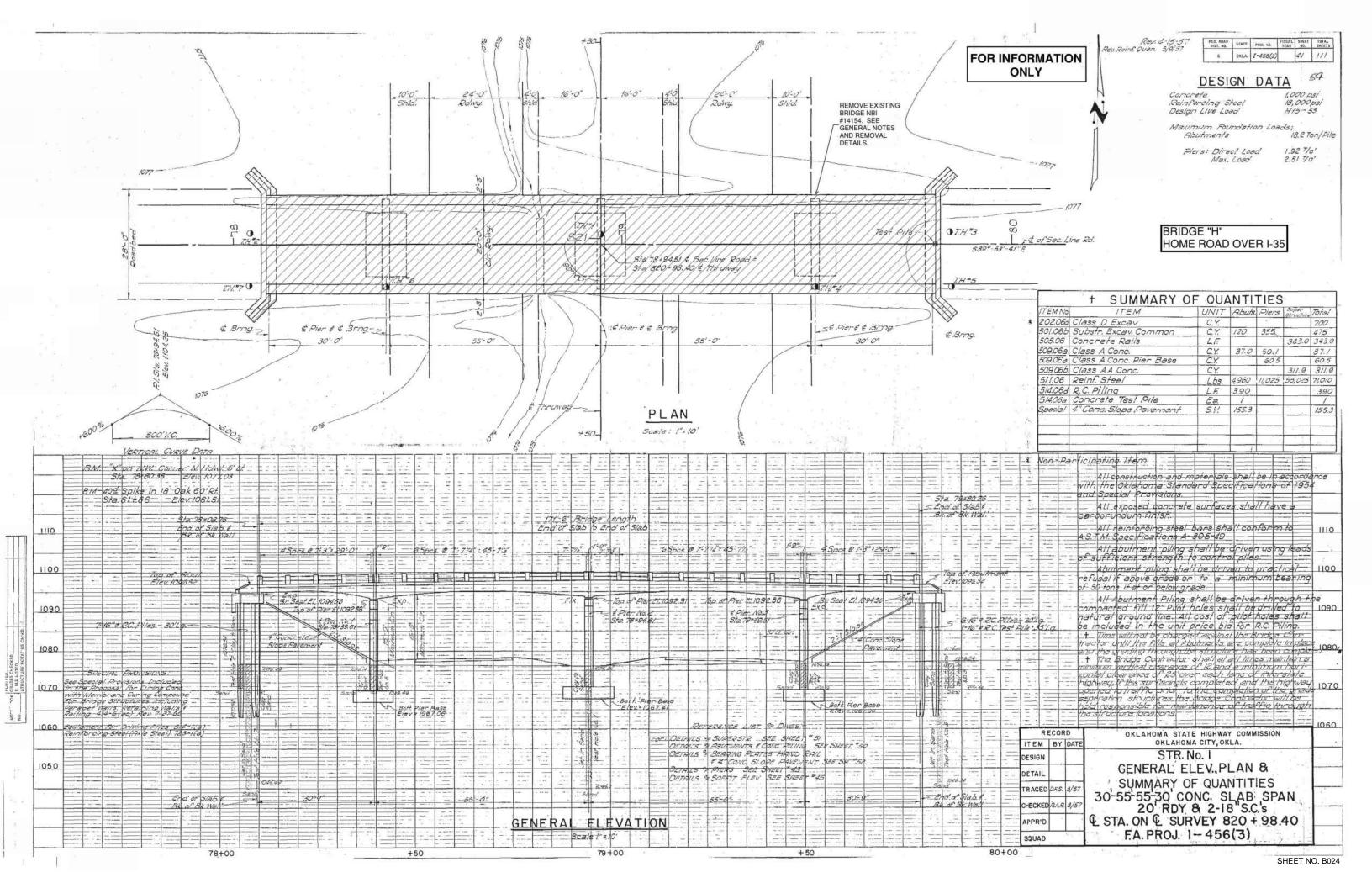
- 6. BEGIN ROLLING ROAD BLOCK.
- 7. PICK AND REMOVE PICK 2. RELEASE ROLLING ROAD BLOCK.
- CONTRACTOR HAS THE OPTION TO REMOVE TEMPORARY SUPPORT IN SPAN 2 ADJACENT TO PIER NO. 1. ALL OTHER TEMPORARY SUPPORTS TO REMAIN FOR STABILITY.

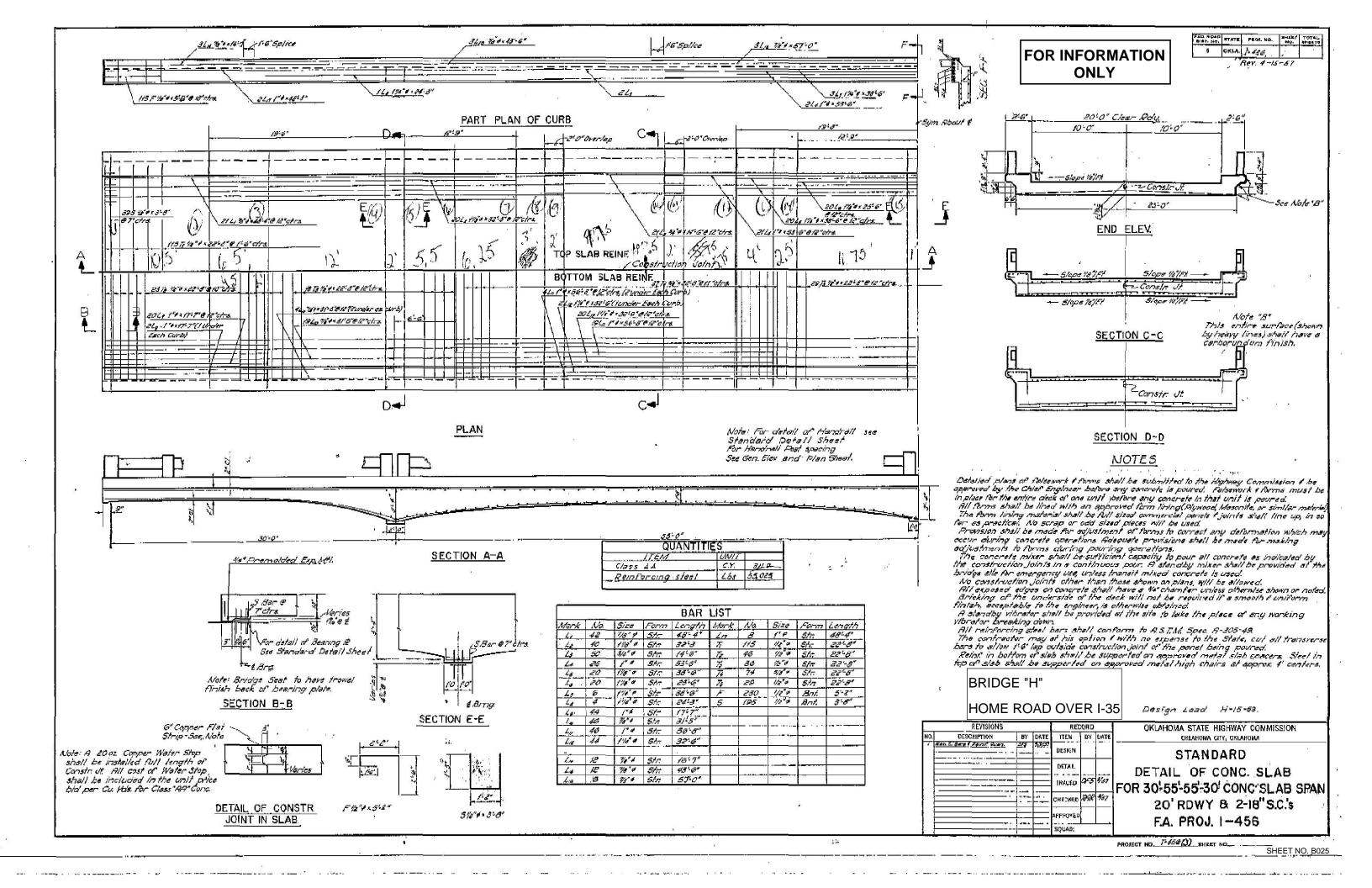
### STAGE 3 SUGGESTED SEQUENCE:

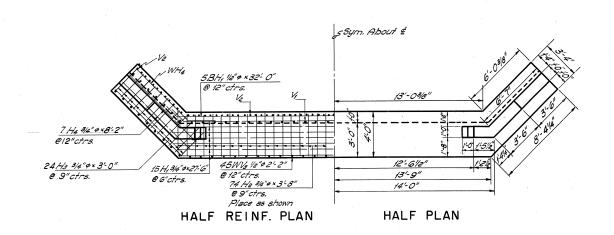
- SAW CUT SECOND MAIN SPAN IN TRANSVERSE DIRECTION AT LOCATIONS NOTED ON PLANS.
- 2. RIG PICK 3 TO THE CRANE.
- BEGIN ROLLING ROAD BLOCK.
- 4. PICK AND REMOVE PICK 3. RELEASE ROLLING ROAD BLOCK.
- 5. RIG PICK 4 TO THE CRANE.
- 6. BEGIN ROLLING ROAD BLOCK.
- 7. PICK AND REMOVE PICK 4. RELEASE ROLLING ROAD BLOCK.
- REMOVE TEMPORARY SUPPORT ADJACENT TO PIER NO. 3.
   PROVIDE TEMPORARY SUPPORT AT CENTER PIER CANTILEVER UNTIL CENTER PIER SECTION IS REMOVED.
- REMOVE REMANING BRIDGE SUBSTRUCTURE SECTIONS AND SUBSTRUCTURE. SUBSTRUCTURE SHALL BE REMOVED TO AT LEAST 2 FT BELOW PROPOSED GROUND LINE.

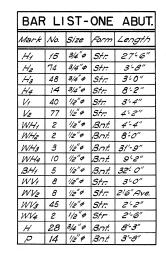
STATE OF DEPARTMENT OF TRANSPORATION OKLAHOMA JOBPECENO. 24432(15) SHEETNO. B022

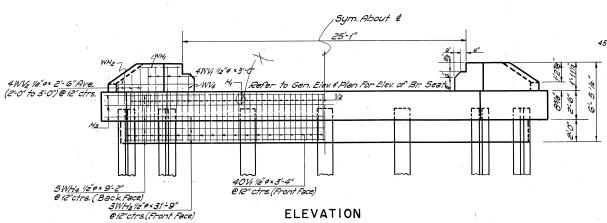


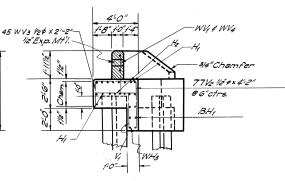




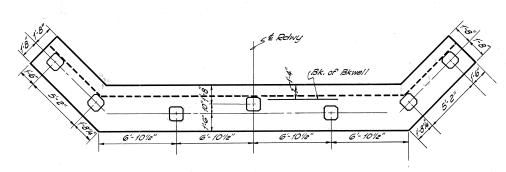








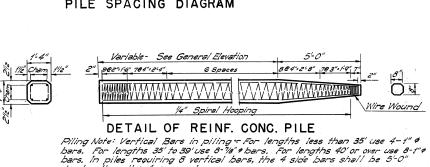
# SECTION ON &





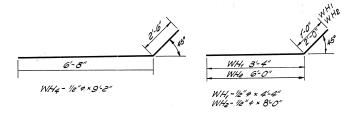
2P1/2" \$x3'-8"

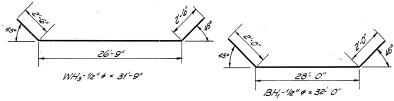
over ea. pile

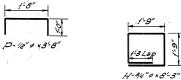


shorter than the 4 corner bars.

Materials, driving equipment, construction methods, method of measurement, and basis of payment shall conform to the plans and Section 514 of the



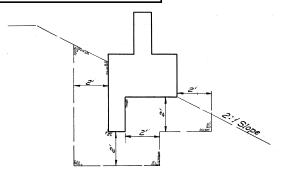




BAR BENDING DETAILS

# FOR INFORMATION **ONLY**

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
6 .	OKLA.	I-456		



## MAXIMUM LIMITS OF EXCAV. IN COMPACTED FILL

Abutment shall be back filled f tamped with a mechanical tamper (type f weight to be approved by the Engineer) by the Bridge Contractor after abutment is completed. All cost of backfill shall be included in the unit price bid per Cu. Yd. for Substr. Excavation Common.

Contractor may excavate to the neat lines of the abutment fifth satisfactory condition to the Resident Engineer, he may pour the concrete against the compacted fill. If necessary, Contractor shall use forms on the back vertical face of the Abut fremove the same after concrete is set.

# EXCAVATION DETAILS FOR ABUTMENTS

Q	UANT	ITIES	
ITEM	UNIT	Abut. #1	Abut. #2
Class "A" Concrete	Cu. Yds.	18.5	18.5
Reinf. Steel	Lbs.	2480	2480
Reinf: Conc. Piling	Lin. Ft.	*	*
Substr. Excav. Com.	Cu. 465.	60	60

\*-Included in Summary of Quantities - General Elevation & Plan - Sheet

BRIDGE "H" HOME ROAD OVER I-35

# NOTES

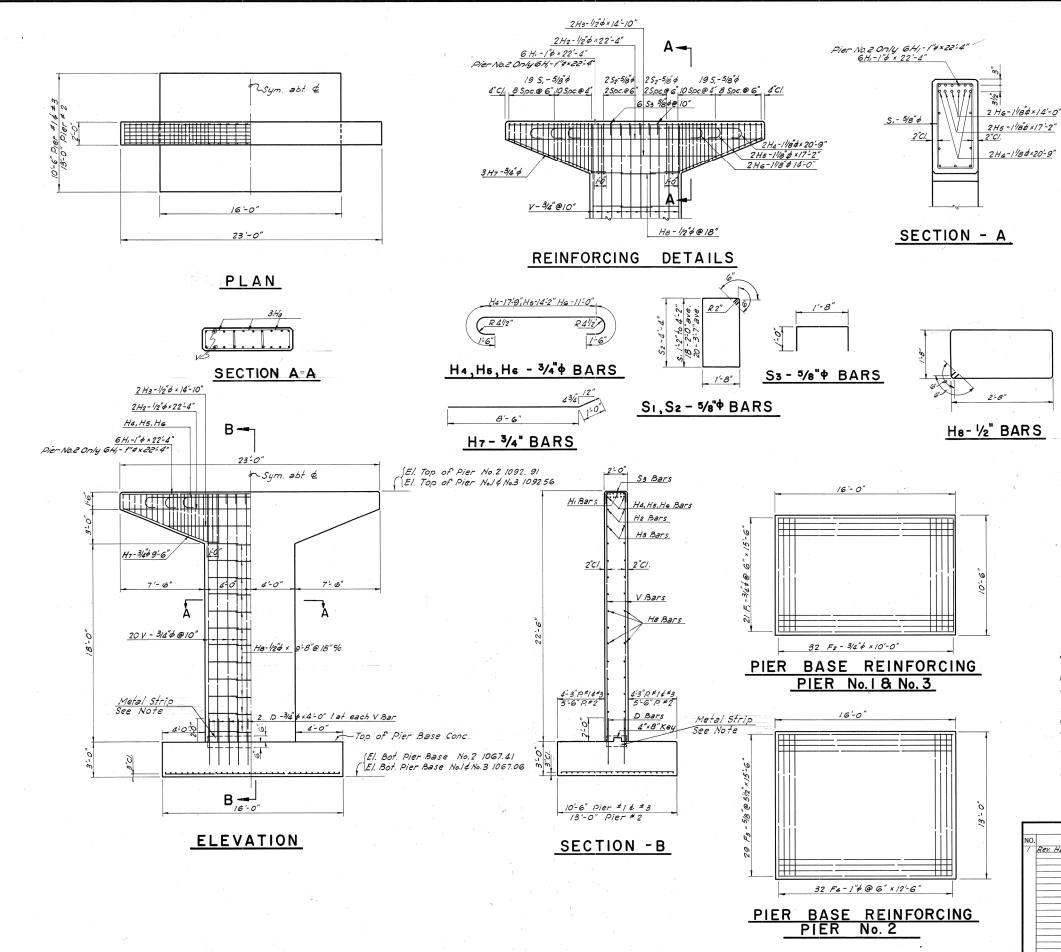
- 1.- Unless Otherwise Noted, All Exposed Edges Shall Have A 3/4" Chamfer.
- 2.- All construction and materials shall be in accordance with the Oklahoma Standard Specifications of 1954 and Special Provisions.

OKLAHOM <i>A</i>		CORD	REC			REVISIONS	
	DATE	BY	ITEM	DATE	BY	DESCRIPTION	Ó.
			DESIGN	5/9/57	DFS	Rev. H4 Bars & Reinf. Quan	7
DETAIL			DETAIL				
FOR 30-55-	3/57	D.F.S.	TRACED				
20' RI	3/57	RAR	CHECKED				
- 20 M			APPROVED				
'.'			SQUAD:				

MA STATE HIGHWAY COMMISSION OKLAHOMA CITY, OKLAHOMA STANDARD LS OF ABUTMENTS -55-30 CONC. SLAB SPAN

RDWY & 2-18" S.C.'s A. PROJ. 1-456

PROJECT NO. 1-456 SHEET NO. 50



# FOR INFORMATION **ONLY**

ВА	R L	.IST	Γ-P	PIER No.1	
ВА	R L	_IS1	Г-Р	PIER No.3	
Mark	No.	Size	Form	Length	
$H_{I}$	6	/"φ	Str.	22'- 4"	
H2	2	1/20	Str.	22'- 4"	
Нз	2	1/2" 6	Str.	14'-10"	
H4	2	11/84	Bnt.	20'- 9"	
H5	2	1484	Bnt.	17'-2"	
H6	2	1484	-Bnt.	14'-0"	
$H_7$	6	3/4"6	Bnt.	9'- 6"	
Нв	39	1/2"6	Str.	9'-8"	
ر م	18	5/80	Bnt.	7' - 4"(Ave.)	
<i>s</i> , {	20	5/80	Bnt.	11'-6"(Ave)	
S <sub>2</sub>	4	5/80	Bnt.	13'-0"	
Ss	6	5/80	Bnt.	3'-8"	
D	20	346	Str.	4"-0"	
V	20	3/4%	Str.	22'- 4"	1
F,	2/	3/40		15'-6"	
Fz	32	3/40	5+r.	10'-0"	-
					1
					1

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS	-
6	OKLA.	I-456(3)	43	111	
		<u> </u>			'
					- 1

DAI	T L	<u>.13 i</u>	- [		140. 2
Mark	No.	Size	Form	Leng	th.
Η,	6	1"4	Str.	22'-	4"
Hz	2	1/20	Str.	22'-	
Нз	2	1/20	Str.	14'-	10"
H4	2	11/84	Bnt.	20'-	9"
H5	2	1484	Bnt.	17:-	
H <sub>6</sub>	2	11/8#	Bnt.	14'-	0"
H7	6	3/40	Bnt.	9'-	6"
HB	39	1/2"6	Str.	ے 'چ	8"
ر ر	18	5/80	Bnt.	7'-	4 (Ave.)
S, {	20	5/80	Bnt.		6"(Ave)
Sz	4	5/80	Bnt.	13'-	0"
S3	6	5/80	Bnt.	3'-	
D	20	3/40	Str.	4'-	0"
V	20	3/40	Str.	22'-	4"
F3	29	5/80	Str.	15'-	6"
F4	32	1"6	Str.	12'-	6"

QUANT	TITIE	S		. 7.
ITEM	UNIT	PIER No.1	PIER No.2	PIER No.3
Reinforcing Steel	Lbs.	3,450	4,125	3,450
Class "A" Concrete	Cu. Yds.	16.7	16.7	16.7
Class "A" Conc. in Pier Bases	Cu. Yds.	18.7	23./	18.7
Substr. Excav Common	Cu. Yds.	125	105	125.0
	Could's		100	
The state of the s	1.4			

# BRIDGE "H" HOME ROAD OVER I-35

All reinforcing steel bars shall conform to A.S.T.M. specifications A-305-49 All exposed edges shall have a 1/2" chamfer unless otherwise noted. All concrete shall be poured dry

NOTE : METAL STRIP

NOTE: METAL STRIP

A 16 gage galvanized iron strip 12" wide shall be placed in the Construction Joint in each Pier Shaft as shown. Each joint in the metal strip shall be lapped 2", riveted and soldered to make it water tight. The materials shall comply with the requirements of the Oklahoma Standard Specifications of 1954 and A.A.S.H.O. specification. Concrete shall be carefully placed so as not to crush or deform this strip All cost of the material and the placing of metal strip shall be included in the unit price bid per Cubic Yard for class "A" concrete in pier bases. Any variation in the elevation of pier bases shall be taken care of in the shaft and any additional concrete shall be paid for as class "A" concrete in pier bases. All cost of such variation shall be included in concrete in pier bases. All cost of such variation shall be included in the unit price bid per cubic yard for class "A" concrete in pier bases.

	REVISIONS		,	REC	ORD	
NO.	DESCRIPTION	BY	DATE	ITEM	BY	DATE
/	Rev. Ha Bars & Reinf. Quan.	DFS	5/9/57	DESIGN		
				DETAIL		
				TRACED	1. <b>S</b> .	3/57
				CHECKED	R.A.R	<b>3/5</b> 7
				APPROVED		
				SQUAD:		

OKLAHOMA CITY, OKLAHOMA STRUCTURE No. I DETAILS OF PIERS ¢ STA. ¢ SURVEY 820+98.40 FA PROJ. I-456(3)

OKLAHOMA STATE HIGHWAY COMMISSION

PROJECT NO. I-456(3) SHEET NO.

SOIL STABILIZATION PRACTICES:

DESCRIPTION	REVISIONS	DATE

### SITE DESCRIPTION

## EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: APPROX. 1/8 MILE EAST & WEST OF I-35 ALONG NORTH AVE
NORTH AVE IS LOCATED 1 MILE SOUTH OF THE SH-60 & I-35 JUNCTION ALONG
THE I-35 CORRIDOR.
PROJECT DESCRIPTION: RAISE BRIDGE PROFILE AND ADJUST ROADWAY PROFILE TO MATCH. PROJECT INCLUDES REPLACING GUARDRAIL AND RESHAPING SLOPES TO MATCH RAISE PROFILE GRADE OF THE ROAD.
CUCCECTED SEQUENCE OF EDOCION CONTROL ACTIVITIES.
SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:  PRIOR TO INITIATING SOIL DISTURBING ACTIVITIES, THE CONTRACTOR WILL INSTALL
ALL PERIMETER TEMPORARY SEDIMENT CONTROLS SPECIFIED. STRIP, STOCKPILE AND
STABILIZE TOPSOIL. CLEAR AND GRUB ONLY IN NECESSARY AREAS, PRESERVING AS
MUCH NATIVE VEGETATION AS POSSIBLE. INSTALL, MAINTAIN AND/OR MOVE
TEMPORARY SEDIMENT ITEMS WITH CONSTRUCTION OPERATIONS AS PRACTICAL. IF
DIRECTED BY THE ENGINEER, PLANT TEMPORARY SEEDING. REPLACE SALVAGED  TOPSOIL AND DEVICES WHEN AN ACCEPTABLE VEGETATIVE COVER (AT LEAST 70%)
HAS BEEN ATTAINED. AS SITE CONDITIONS WARRANT, THE CONTRACTOR MAY
CHOOSE TO MODIFY THE TYPE OR ARRANGEMENT OF SPECIFIED PRACTICES TO
IMPROVE THEIR EFFECTIVENESS AS APPROVED BY THE ENGINEER. THE CONTRACTOR
WILL MAINTAIN A LOG OF MAJOR SOIL DISTURBANCE ACTIVITIES, AND ALSO THE  DATES OF INSTALLATION OF EROSION CONTROL MEASURES.
SOIL TYPE: REINACH LOAM/EDA LOAMY FINE SAND
TOTAL AREA OF THE CONSTRUCTION SITE: 2.86 ACRES (124,582 SF)
ESTIMATED AREA TO BE DISTURBED: 2.86 ACRES (124,582 SF)
OFFSITE AREA TO BE DISTURBED:(FOR CONTRACTOR USE)
TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16 ACRES (7,100 SF)
TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.19 ACRES (8,440 SF)
POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45
LATITUDE & LONGITUDE OF CENTER OF PROJECT: N36°40'51" W97°20'45"
PROJECT WILL DISCHARGE TO:
NAME OF RECEIVING WATERS: ARKANSAS RIVER, SALT FORK
SENSITIVE WATERS OR WATERSHEDS:  YES NO X
303(D) IMPAIRED WATERS: YES X NO
IF YES, LIST IMPAIRMENT: Enterococc, Turbidity
LOCATED IN A TMDL: YES X NO
LAKE THUNDERBIRD TMDL: YES NO X
MS4 ENTITY YES NO X
NOTE: IF YES, LOCATION: OK621000010010_30
THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE MAP THAT ILLUSTRATES THE DRAINAGE PATTERNS/PATHWAYS AND RECEIVING WATERS FOR THIS PROJECT. THIS SHEET SHOULD ALSO BE USED WITH THE EROSION

CONTROL SUMMARIES, PAY ITEMS, & NOTES.

TEMPORARY SEEDING
X PERMANENT SODDING, SPRIGGING OR SEEDING
X VEGETATIVE MULCHING
SOIL RETENTION BLANKET
X 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
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
RIP RAP
INLET SEDIMENT FILTER
TEMPORARY BRUSH SEDIMENT BARRIERS
SANDBAG BERMS
TEMPORARY STREAM CROSSINGS
TEMPONANT STREAM CROSSINGS
OFFSITE VEHICLE TRACKING:
HAUL ROADS DAMPENED FOR DUST CONTROL
X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
EXCESS DIRT ON ROAD REMOVED DAILY
NOTES:

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 2009 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

 $220 \quad \text{MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL }$ 

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, SEPTEMBER 13, 2017.

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
	!		NOADWAT DESIGN DIVISION
DRAWN	ALM	09/18	
CHECKED	BDC	09/18	l STORMWATER
			O I O I (IVI WI / I L I V
APPROVED	JRW	09/18	MANAGEMENT PLAN
SQUAD			IVI/ (IV/ OEIVIEIVI I E/ (IV
COUNTY_	KA'	Y	HIGHWAY NORTH AVE STATE JOB NO. 24432(15) SHEET NO. ROO1

Wednesday, October 24, 2018 1/2014 PM

TEL 1000 1011 0550 110

SOIL STABILIZATION PRACTICES:

	REVISIONS	
DESCRIPTION	112 11310113	DATE
DESCRIPTION		DAIL

### SITE DESCRIPTION

PROJECT LIMITS: APPROX. 1/8 MILE EAST	T & WEST OF I-35 ALONG HIGHLAND
AVE. HIGLAND AVE IS LOCATED 1 MILE NOR	TH OF THE SH-60 & I-35 JUNCTION
ALONG THE I-35 CORRIDOR.	
PROJECT DESCRIPTION: RAISE BRIDGE PR	ROFILE AND ADJUST ROADWAY PROFILE TO
MATCH. PROJECT INCLUDES REPLACING GL	JARDRAIL AND RESHAPING SLOPES TO
MATCH RAISE PROFILE GRADE OF THE ROA	AD.
SUGGESTED SEQUENCE OF EROSION CON	TROL ACTIVITIES:
PRIOR TO INITIATING SOIL DISTURBING ACTIV	ITIES, THE CONTRACTOR WILL INSTALL
ALL PERIMETER TEMPORARY SEDIMENT CONTI	ROLS SPECIFIED. STRIP, STOCKPILE AND
STABILIZE TOPSOIL. CLEAR AND GRUB ONLY	IN NECESSARY AREAS, PRESERVING AS
MUCH NATIVE VEGETATION AS POSSIBLE. INS	<u> </u>
TEMPORARY SEDIMENT ITEMS WITH CONSTRU	
DIRECTED BY THE ENGINEER, PLANT TEMPOR	
TOPSOIL AND DEVICES WHEN AN ACCEPTABL	
HAS BEEN ATTAINED. AS SITE CONDITIONS V	·
CHOOSE TO MODIFY THE TYPE OR ARRANGEI IMPROVE THEIR EFFECTIVENESS AS APPROVE	
WILL MAINTAIN A LOG OF MAJOR SOIL DISTU	
DATES OF INSTALLATION OF EROSION CONTR	<u> </u>
SOIL TYPE: BETHAN	Y SILT LOAM/KIRKLAND SILT LOAM
TOTAL AREA OF THE CONSTRUCTION SITE: 2.18 AC	CRES (94,961 SF)
ESTIMATED AREA TO BE DISTURBED: 2.18 AC	
OFFSITE AREA TO BE DISTURBED:	
(FOR CONTRACTOR USE)	
TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16 AC	CRES (7,100 SF)
TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17 AC	CRES (7,500 SF)
POST-CONSTRUCTION RUNOFF	
COEFFICIENT OF THE SITE: 0.45	
LATITUDE & LONGITUDE OF CENTER OF PROJECT: <u>N36°42'</u> .	35" W97°20'45"
PROJECT WILL D	ISCHARGE TO:
NAME OF RECEIVING WATERS: _TONKAW	A CREEK
SENSITIVE WATERS OR WATERSHEDS:	YES NO X
303(D) IMPAIRED WATERS:	YES NO X
IF YES, LIST IMPAIRMENT: Enteroco	occ, Turbidity
LOCATED IN A TMDL:	YES NO X
LAKE THUNDERBIRD TMDL:	YES NO X
MS4 ENTITY	YES NO X
NOTE: IF YES, LOCATION:	
THIS SHEET SHOULD BE USED IN CONJUNCTI	
THAT ILLUSTRATES THE DRAINAGE PATTER	

CONTROL SUMMARIES, PAY ITEMS, & NOTES.

	TEMPORARY SEEDING
X	PERMANENT SODDING, SPRIGGING OR SEEDING
X	VEGETATIVE MULCHING
	SOIL RETENTION BLANKET
X	PRESERVATION OF EXISTING VEGETATION
ALL DISTURBEI FOR OVER 14 D	RARY EROSION CONTROL METHODS MUST BE USED ON D AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED PAYS. METHODS USED WILL BE AS SHOWN ON PLANS, ED BY THE ENGINEER.
STRUCTUR	AL PRACTICES:
	STABILIZED CONSTRUCTION EXIT
X	TEMPORARY SILT FENCE
	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
	RIP RAP
	INLET SEDIMENT FILTER
	TEMPORARY BRUSH SEDIMENT BARRIERS
	SANDBAG BERMS
	TEMPORARY STREAM CROSSINGS
OFFSITE VI	EHICLE TRACKING:
	HAUL ROADS DAMPENED FOR DUST CONTROL
	LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
	EXCESS DIRT ON ROAD REMOVED DAILY
	EXOLOGO DINT ON NOAD NEWOVED DAILT
NOTES:	

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

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EROSION AND SEDIMENT CONTROLS

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### GENERAL NOTES:

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THE FOLLOWING SECTIONS OF THE 2009 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, SEPTEMBER 13, 2017.

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION
			NOADWAT BEGIGN BIVIOION
DRAWN	ALM	09/18	
CHECKED	BDC	09/18	] STORMWATER
APPROVED	JRW	09/18	MANAGEMENT PLAN
SQUAD			W/XIV/XOEIMEIYT TE/XIV
COUNTY_	KA'	Υ	HIGHWAY HIGHLAND AVESTATE JOB NO. 24432(15) SHEET NO. ROO2

SOIL STABILIZATION PRACTICES:

	REVISIONS	
DESCRIPTION	112 11310113	DATE
DESCRIPTION		DAIL

### SITE DESCRIPTION

# EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: APPROX. 1/8 MILE	EAST & WEST OF I-35 ALONG HARTFORD
AVE. HARTFORD AVE IS LOCATED 2 MILE	S NORTH OF THE SH-60 & I-35
JUNCTION ALONG THE I-35 CORRIDOR.	
DROIECT DESCRIPTION, RAISE BRIDGE	E PROFILE AND ADJUST ROADWAY PROFILE
	G GUARDRAIL AND RESHAPING SLOPES TO
MATCH RAISE PROFILE GRADE OF THE	
SUGGESTED SEQUENCE OF EROSION O	
	CTIVITIES, THE CONTRACTOR WILL INSTALL ONTROLS SPECIFIED. STRIP, STOCKPILE AND
	NLY IN NECESSARY AREAS, PRESERVING AS
MUCH NATIVE VEGETATION AS POSSIBLE.	
	TRUCTION OPERATIONS AS PRACTICAL. IF
DIRECTED BY THE ENGINEER, PLANT TEM	PORARY SEEDING. REPLACE SALVAGED
TOPSOIL AND DEVICES WHEN AN ACCEPT	TABLE VEGETATIVE COVER (AT LEAST 70%)
HAS BEEN ATTAINED. AS SITE CONDITION	S WARRANT, THE CONTRACTOR MAY
CHOOSE TO MODIFY THE TYPE OR ARRAI	
	OVED BY THE ENGINEER. THE CONTRACTOR
WILL MAINTAIN A LOG OF MAJOR SOIL D DATES OF INSTALLATION OF EROSION CO	•
	NIROL MEASURES.
SOIL TYPE: KIRK	CLAND SILT LOAM/KIRKLAND RENFROW COMI
TOTAL AREA OF THE CONSTRUCTION SITE: 1.95	ACRES (85,119 SF)
TOTAL AREA OF THE CONSTRUCTION SITE: 1.95 ESTIMATED AREA TO BE DISTURBED: 1.95	
ESTIMATED AREA TO BE DISTURBED: 1.95 OFFSITE AREA TO BE DISTURBED:	ACRES (85,119 SF)
OFFSITE AREA TO BE DISTURBED: 1.95  OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)	ACRES (85,119 SF)  B ACRES (7,100 SF)
OFFSITE AREA TO BE DISTURBED: 1.95  OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17	ACRES (85,119 SF)  5 ACRES (7,100 SF)  7 ACRES (7,500 SF)
OFFSITE AREA TO BE DISTURBED: 1.95  OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17  POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45  LATITUDE & LONGITUDE	ACRES (85,119 SF)  ACRES (7,100 SF)  ACRES (7,500 SF)
OFFSITE AREA TO BE DISTURBED:  (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION:  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION:  0.17  POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE:  LATITUDE & LONGITUDE OF CENTER OF PROJECT: N36	ACRES (85,119 SF)  ACRES (7,100 SF)  ACRES (7,500 SF)
OFFSITE AREA TO BE DISTURBED:  (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION:  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION:  0.17  POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE:  LATITUDE & LONGITUDE OF CENTER OF PROJECT: N36	ACRES (85,119 SF)  5 ACRES (7,100 SF)  7 ACRES (7,500 SF)  6 ACRES (7,500 SF)  7 ACRES (7,500 SF)  8 ACRES (7,500 SF)
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17  POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45  LATITUDE & LONGITUDE OF CENTER OF PROJECT: N36'	ACRES (85,119 SF)  5 ACRES (7,100 SF)  7 ACRES (7,500 SF)  6 ACRES (7,500 SF)  7 ACRES (7,500 SF)  8 ACRES (7,500 SF)
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17  POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45  LATITUDE & LONGITUDE OF CENTER OF PROJECT: N36'  PROJECT WILL  NAME OF RECEIVING WATERS: STIN	ACRES (85,119 SF)  5 ACRES (7,100 SF)  7 ACRES (7,500 SF)  6 ACRES (7,500 SF)  7 ACRES (7,500 SF)  8 ACRES (7,500 SF)  8 ACRES (7,500 SF)
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17  POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45  LATITUDE & LONGITUDE OF CENTER OF PROJECT: N369  PROJECT WILL  NAME OF RECEIVING WATERS: STIN	ACRES (85,119 SF)  5 ACRES (7,100 SF)  7 ACRES (7,500 SF)  6 43'28" W97*20'45"  L DISCHARGE TO:  1K CREEK  YES NO X
OFFSITE AREA TO BE DISTURBED:  (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION:  O.16  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION:  O.17  POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE:  LATITUDE & LONGITUDE OF CENTER OF PROJECT:  NAME OF RECEIVING WATERS:  STIN  ENSITIVE WATERS OR WATERSHEDS:  303(D) IMPAIRED WATERS:	ACRES (85,119 SF)  5 ACRES (7,100 SF)  7 ACRES (7,500 SF)  6 43'28" W97*20'45"  L DISCHARGE TO:  1K CREEK  YES NO X
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17  POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45  LATITUDE & LONGITUDE OF CENTER OF PROJECT: N36'  PROJECT WILL  NAME OF RECEIVING WATERS: STINE  ENSITIVE WATERS OR WATERSHEDS: 303(D) IMPAIRED WATERS: IF YES, LIST IMPAIRMENT:	ACRES (85,119 SF)  5 ACRES (7,100 SF)  7 ACRES (7,500 SF)  6 *43'28" W97*20'45"  L DISCHARGE TO:  IK CREEK  YES NO X  YES NO X
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)  TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16  TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17  POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45  LATITUDE & LONGITUDE OF CENTER OF PROJECT: N369  PROJECT WILL  NAME OF RECEIVING WATERS: STIN  ENSITIVE WATERS OR WATERSHEDS: 303(D) IMPAIRED WATERS: IF YES, LIST IMPAIRMENT: LOCATED IN A TMDL:	ACRES (85,119 SF)  5 ACRES (7,100 SF)  7 ACRES (7,500 SF)  6 L DISCHARGE TO:  1 K CREEK  YES NO X  YES NO X  YES NO X

\_\_ TEMPORARY SEEDING X PERMANENT SODDING, SPRIGGING OR SEEDING X VEGETATIVE MULCHING \_\_\_\_\_ SOIL RETENTION BLANKET X 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 \_\_\_\_\_ 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 \_\_\_\_\_ RIP RAP \_\_\_\_\_ INLET SEDIMENT FILTER \_\_\_\_\_ TEMPORARY BRUSH SEDIMENT BARRIERS SANDBAG BERMS \_\_\_\_\_ TEMPORARY STREAM CROSSINGS OFFSITE VEHICLE TRACKING: \_\_\_ HAUL ROADS DAMPENED FOR DUST CONTROL X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN EXCESS DIRT ON ROAD REMOVED DAILY NOTES:

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 2009 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

 $220 \quad \text{MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL }$ 

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, SEPTEMBER 13, 2017.

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION		
DRAWN	AL M	09/18	ROADWAY DESIGN DIVISION		
DRAWN	ALIV	037 10			
CHECKED	BDC	09/18	STORMWATER		
APPROVED	JRW	09/18	MANAGEMENT PLAN		MANAGEMENT PLAN
SQUAD			W/WW/WEIMERT 1 E/W		
COUNTY_	KA	Υ	HIGHWAY HARTFORD AVESTATE JOB NO. 24432(15) SHEET NO. ROO3		

Detober 24, 2018 1/20/27 PM

CONTROL SUMMARIES, PAY ITEMS, & NOTES.

SOIL STABILIZATION PRACTICES:

	REVISIONS	
DESCRIPTION	112 11310113	DATE
DESCRIPTION		DAIL

### SITE DESCRIPTION

## EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: APPROX. 1/8 MILE EA	ST & WEST OF I-35 ALONG COLEMAN
ROAD. COLEMAN ROAD IS LOCATED 3 MILE	S SOUTH OF THE SH-11 & I-35
JUNCTION ALONG THE 1-35 CORRIDOR.	
PROJECT DESCRIPTION: RAISE BRIDGE IS MATCH. PROJECT INCLUDES REPLACING COMMATCH RAISE PROFILE GRADE OF THE RESERVENCE.	
SUGGESTED SPOUENCE OF PROGION CO	AVERAL ACCENTIFIES
SUGGESTED SEQUENCE OF EROSION CO PRIOR TO INITIATING SOIL DISTURBING ACTI ALL PERIMETER TEMPORARY SEDIMENT CON STABILIZE TOPSOIL. CLEAR AND GRUB ONL' MUCH NATIVE VEGETATION AS POSSIBLE. IN TEMPORARY SEDIMENT ITEMS WITH CONSTR DIRECTED BY THE ENGINEER, PLANT TEMPO TOPSOIL AND DEVICES WHEN AN ACCEPTAL HAS BEEN ATTAINED. AS SITE CONDITIONS CHOOSE TO MODIFY THE TYPE OR ARRANG IMPROVE THEIR EFFECTIVENESS AS APPROV WILL MAINTAIN A LOG OF MAJOR SOIL DIS	INITIES, THE CONTRACTOR WILL INSTALL ITROLS SPECIFIED. STRIP, STOCKPILE AND Y IN NECESSARY AREAS, PRESERVING AS INSTALL, MAINTAIN AND/OR MOVE RUCTION OPERATIONS AS PRACTICAL. IF DRARY SEEDING. REPLACE SALVAGED BLE VEGETATIVE COVER (AT LEAST 70%) WARRANT, THE CONTRACTOR MAY REMENT OF SPECIFIED PRACTICES TO VED BY THE ENGINEER. THE CONTRACTOR STURBANCE ACTIVITIES, AND ALSO THE
DATES OF INSTALLATION OF EROSION CONT	
SOIL TYPE: TABLE	R SILT LOAM
TOTAL AREA OF THE CONSTRUCTION SITE: 2.13 A	ACRES (92,783 SF)
STIMATED AREA TO BE DISTURBED: 2.13 A	ACRES (92,783 SF)
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)	
TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16	ACRES (7,100 SF)
TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17	ACRES (7,500 SF)
POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45	
LATITUDE & LONGITUDE OF CENTER OF PROJECT: <u>N36°46</u>	5'4" W97°20'45"
PROJECT WILL	DISCHARGE TO:
NAME OF RECEIVING WATERS: STINK	CREEK
SITIVE WATERS OR WATERSHEDS:	YES NO X
303(D) IMPAIRED WATERS:	YES NO X
IF YES, LIST IMPAIRMENT:	
LOCATED IN A TMDL:	YES NO X
LAKE THUNDERBIRD TMDL:	YES NO X
MS4 ENTITY	YES NO X
NOTE: IF YES, LOCATION:	

CONTROL SUMMARIES, PAY ITEMS, & NOTES.

		TEMPORARY SEEDING
	X	PERMANENT SODDING, SPRIGGING OR SEEDING
	X	VEGETATIVE MULCHING
		SOIL RETENTION BLANKET
	X	PRESERVATION OF EXISTING VEGETATION
ALL DIS	STURBEI /ER 14 D	RARY EROSION CONTROL METHODS MUST BE USED ON D AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED JAYS. METHODS USED WILL BE AS SHOWN ON PLANS, ED BY THE ENGINEER.
STRU	CTUR	AAL PRACTICES:
		STABILIZED CONSTRUCTION EXIT
	X	TEMPORARY SILT FENCE
		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
		RIP RAP
		INLET SEDIMENT FILTER
		TEMPORARY BRUSH SEDIMENT BARRIERS
		SANDBAG BERMS
		TEMPORARY STREAM CROSSINGS
		LEWFORART STREAM CROSSINGS
OFFS	ITE V	EHICLE TRACKING:
		HAUL ROADS DAMPENED FOR DUST CONTROL
	X	LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
		EXCESS DIRT ON ROAD REMOVED DAILY
NOT	TES:	
	-	

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:

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### 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 2009 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

 $220 \quad \text{MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL }$ 

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, SEPTEMBER 13, 2017.

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION					
			TOADWAT DEGICIN DIVIDION					
DRAWN	ALM	09/18						
CHECKED	BDC	09/18	STORMWATER					
APPROVED	JRW	09/18	MANAGEMENT PLAN					
			I MANAGEMENI PLAN I					
SQUAD								
JUJAD	l							
COUNTY_	KA'	Y	HIGHWAY COLEMAN AVE STATE JOB NO. 24432(15) SHEET NO. ROO4					

Wednesday, October 24, 2018 1/20/32 PM VANS-1970F BD Baleiro, Disa, 1-25, Kar., 1840, UNITBACTAZAN BI ANSARAGESAMD SHEFTS AMA

SOIL STABILIZATION PRACTICES:

DESCRIPTION	REVISIONS	DATE

### SITE DESCRIPTION

### EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: APPROX. 1/8	MILE EAST & WEST OF 1-35 ALONG CHRYSLER
	2 MILES SOUTH OF THE SH-11 & I-35
JUNCTION ALONG THE 1-35 CORRI	DOR.
PROJECT DESCRIPTION: RAISE	BRIDGE PROFILE AND ADJUST ROADWAY PROFILE TO
	LACING GUARDRAIL AND RESHAPING SLOPES TO
MATCH RAISE PROFILE GRADE OF	F THE ROAD.
SUGGESTED SEQUENCE OF EROS	SION CONTROL ACTIVITIES:
	RING ACTIVITIES, THE CONTRACTOR WILL INSTALL
	ENT CONTROLS SPECIFIED. STRIP, STOCKPILE AND RUB ONLY IN NECESSARY AREAS, PRESERVING AS
	SSIBLE. INSTALL, MAINTAIN AND/OR MOVE
	CONSTRUCTION OPERATIONS AS PRACTICAL. IF
DIRECTED BY THE ENGINEER, PLAN	IT TEMPORARY SEEDING. REPLACE SALVAGED
	ACCEPTABLE VEGETATIVE COVER (AT LEAST 70%)
	NDITIONS WARRANT, THE CONTRACTOR MAY  ARRANGEMENT OF SPECIFIED PRACTICES TO
	APPROVED BY THE ENGINEER. THE CONTRACTOR
WILL MAINTAIN A LOG OF MAJOR	SOIL DISTURBANCE ACTIVITIES, AND ALSO THE
DATES OF INSTALLATION OF EROSI	ON CONTROL MEASURES.
SOIL TYPE	E: TABLER SILT LOAM/KIRKLAND SILT LOAM
TOTAL AREA OF THI CONSTRUCTION SITE	E <sub>3</sub> : 2.12 ACRES (92,347 SF)
TIMATED AREA TO BE DISTURBED	): 2.12 ACRES (92,347 SF)
OFFSITE AREA TO BE DISTURBED (FOR CONTRACTOR USE	
TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION	$rac{A}{V_{i}}$ 0.16 ACRES (7,100 SF)
TOTAL IMPERVIOUS AREA POST-CONSTRUCTION	$rac{ ext{A}}{ ext{V}_{:}}$ 0.17 ACRES (7,500 SF)
POST-CONSTRUCTION RUNOFI COEFFICIENT OF THE SITE	F <sub>3:</sub> 0.45
I ATITUDE & I ONGITUDI	
	T WILL DISCHARGE TO:
NAME OF RECEIVING WATERS:	STINK CREEK
SITIVE WATERS OR WATERSHEDS:	
303(D) IMPAIRED WATERS:	
IF YES, LIST IMPAIRMENT:	:
LOCATED IN A TMDL:	: YES NO X
LAKE THUNDERBIRD TMDL:	
MS4 ENTITY	YES NO X
NOTE: IF YES, LOCATION:	:

TEMPORARY SEEDING
X PERMANENT SODDING, SPRIGGING OR SEEDING
X VEGETATIVE MULCHING
SOIL RETENTION BLANKET
X 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
RIP RAP
INLET SEDIMENT FILTER
TEMPORARY BRUSH SEDIMENT BARRIERS
SANDBAG BERMS
TEMPORARY STREAM CROSSINGS
TEMPONANT STREAM CNOSSINGS
OFFSITE VEHICLE TRACKING:
HAUL ROADS DAMPENED FOR DUST CONTROL
XLOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
EXCESS DIRT ON ROAD REMOVED DAILY
ENGLOSS SINT GITTO AD NEITO YES SAIET
NOTES:

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 2009 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

 $220 \quad \text{MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL }$ 

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, SEPTEMBER 13, 2017.

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION				
			NOADWAT DESIGN DIVISION				
DRAWN	ALM	09/18					
CHECKED	BDC	09/18	STORMWATER				
			O I OI (WIW) / I LIX				
APPROVED	JRW	09/18	MANAGEMENT PLAN				
SQUAD			W/WW/WEIWIEIVT TE/WV				
COUNTY_	KA'	Y	HIGHWAY CHRYSLER AVE STATE JOB NO. 24432(15) SHEET NO. ROO5				

Wednesday, October 24, 2018 1/20/37 PM

CONTROL SUMMARIES, PAY ITEMS, & NOTES.

	REVISIONS	
DESCRIPTION	112 11310113	DATE
DESCRIPTION		DAIL

### SITE DESCRIPTION

PROJECT LIMITS: APPROX. 3/16 MILE WEST & 1/8 EAST OF I-35 ALONG

## FERGUSON AVE. FERGUSON AVE IS LOCATED 1 MILE SOUTH OF THE SH-11 & I-35

PROJECT DESCRIPTION: RAISE BRIDGE PROFILE AND ADJUST ROADWAY PROFILE TO MATCH. PROJECT INCLUDES REPLACING GUARDRAIL AND RESHAPING SLOPES TO

MATCH RAISE PROFILE GRADE OF THE ROAD.

JUNCTION ALONG THE I-35 CORRIDOR.

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

SOIL TYPE: KIRKLAND RENFROW COMPLEX/GRAINOLA ASHPORT

TOTAL AREA OF THE CONSTRUCTION SITE: 2.19 ACRES (95,396 SF)

ESTIMATED AREA TO BE DISTURBED: 2.19 ACRES (95,396 SF)

OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16 ACRES (7,100 SF)

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17 ACRES (7,500 SF)

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45

LATITUDE & LONGITUDE OF CENTER OF PROJECT: N36°47'48" W97°20'41"

### PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: STINK CREEK NO X SENSITIVE WATERS OR WATERSHEDS: YES NO X 303(D) IMPAIRED WATERS: IF YES, LIST IMPAIRMENT: YES NO X LOCATED IN A TMDL: NO X LAKE THUNDERBIRD TMDL: NO X MS4 ENTITY YES

IF YES, LOCATION: .

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

### EROSION AND SEDIMENT CONTROLS

### SOIL STABILIZATION PRACTICES:

TEMPORARY SEEDING

X PERMANENT SODDING, SPRIGGING OR SEEDING

X VEGETATIVE MULCHING

\_\_ SOIL RETENTION BLANKET

X 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:

	OTABLEZED CONCINCOTION EXIT
Χ	_ TEMPORARY SILT FENCE
Χ	TEMPORARY SILT DIKES
	_ TEMPORARY FIBER LOG
	DIVERGION INTERCEPTOR OF PERIMETER D

STABILIZED CONSTRUCTION EXIT

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

RIP RAP

\_\_ INLET SEDIMENT FILTER

\_\_ TEMPORARY BRUSH SEDIMENT BARRIERS

SANDRAG BERMS

\_\_\_ TEMPORARY STREAM CROSSINGS

### OFFSITE VEHICLE TRACKING:

HAUL ROADS DAMPENED FOR DUST CONTROL
$\underline{\hspace{1cm} X}$ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULI
EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:		

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 2009 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, SEPTEMBER 13, 2017.

DESIGN	_	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION	
DRAWN	ALM	09/18	STORMWATER MANAGEMENT PLAN	
CHECKED	BDC	09/18		
APPROVED	JRW	09/18		
SQUAD				

COUNTY KAY HIGHWAY FERGUSON AVESTATE JOB NO. 24432(15) SHEET NO. R006

SOIL STABILIZATION PRACTICES:

DESCRIPTION REVISIONS	DATE
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### SITE DESCRIPTION

### EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: APPROX. 1/8 MILE EA	ST & WEST OF I-35 ALONG ADOBE ROAD.
ADOBE ROAD IS LOCATED 1 MILE NORTH C	)F THE SH-11 & I-35 JUNCTION ALONG
THE I-35 CORRIDOR.	
PROJECT DESCRIPTION: RAISE BRIDGE I	PROFILE AND ADJUST ROADWAY PROFILE TO
MATCH. PROJECT INCLUDES REPLACING O	
MATCH RAISE PROFILE GRADE OF THE RO	OAD.
SUGGESTED SEOUENCE OF EROSION CO	NITDOL ACTIVITIES.
PRIOR TO INITIATING SOIL DISTURBING ACTI	
ALL PERIMETER TEMPORARY SEDIMENT CON	
STABILIZE TOPSOIL. CLEAR AND GRUB ONL	Y IN NECESSARY AREAS, PRESERVING AS
MUCH NATIVE VEGETATION AS POSSIBLE. IN	NSTALL, MAINTAIN AND/OR MOVE
TEMPORARY SEDIMENT ITEMS WITH CONSTR	UCTION OPERATIONS AS PRACTICAL, IF
DIRECTED BY THE ENGINEER, PLANT TEMPO	RARY SEEDING. REPLACE SALVAGED
TOPSOIL AND DEVICES WHEN AN ACCEPTAIN	BLE VEGETATIVE COVER (AT LEAST 70%)
HAS BEEN ATTAINED. AS SITE CONDITIONS	·
CHOOSE TO MODIFY THE TYPE OR ARRANG IMPROVE THEIR EFFECTIVENESS AS APPROV	<del></del>
WILL MAINTAIN A LOG OF MAJOR SOIL DIS	
DATES OF INSTALLATION OF EROSION CONT	<u>'</u>
SOIL TYPE: KIRKLA	ND SILT LOAM
TOTAL AREA OF THE	
TOTAL AREA OF THE CONSTRUCTION SITE: 1.78	ACRES (77,441 SF)
ESTIMATED AREA TO BE DISTURBED: 1.78 A	ACRES (77,441 SF)
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)	
TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.16 A	ACRES (7 100 SE)
TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.17	ACRES (7,500 SF)
POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.45	
LATITUDE & LONGITUDE	
OF CENTER OF PROJECT: N36°49	3°33° W97°20'35″
PROJECT WILL	DISCHARGE TO:
NAME OF RECEIVING WATERS: STINK	CREEK
SENSITIVE WATERS OR WATERSHEDS:	YES NO X
303(D) IMPAIRED WATERS:	YES NO X
IF YES, LIST IMPAIRMENT:	
LOCATED IN A TMDL:	YES NO X
LAKE THUNDERBIRD TMDL:	YES NO X
MS4 ENTITY	YES NO X
NOTE: IF YES, LOCATION:	
THIS SHEET SHOULD BE USED IN CONJUNC	TION WITH A DRAINAGE MAP
THAT ILLUSTRATES THE DRAINAGE PATTE	

CONTROL SUMMARIES, PAY ITEMS, & NOTES.

		TEMPORARY SEEDING
	X ı	PERMANENT SODDING, SPRIGGING OR SEEDING
	Xv	VEGETATIVE MULCHING
		SOIL RETENTION BLANKET
	X ı	PRESERVATION OF EXISTING VEGETATION
ALL DIS	TURBED ER 14 DA	ARY EROSION CONTROL METHODS MUST BE USED ON AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED AYS. METHODS USED WILL BE AS SHOWN ON PLANS, D BY THE ENGINEER.
STRU	CTURA	AL PRACTICES:
		STABILIZED CONSTRUCTION EXIT
	X	TEMPORARY SILT FENCE
		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
		RIP RAP
	I	NLET SEDIMENT FILTER
		TEMPORARY BRUSH SEDIMENT BARRIERS
	;	SANDBAG BERMS
		TEMPORARY STREAM CROSSINGS
OFFS:	ITE VE	HICLE TRACKING:
	I	HAUL ROADS DAMPENED FOR DUST CONTROL
	X ι	LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
	E	EXCESS DIRT ON ROAD REMOVED DAILY
NOT	ES:	

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.

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### 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 2009 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, SEPTEMBER 13, 2017.

			ADORE DD 34473(15) D	
SQUAD			MANAGEMENT PLAN	
APPROVED	JRW	09/18		
CHECKED	BDC	09/18	STORMWATER	
DRAWN	ALM	09/18	ROADWAY DESIGN DIVISION	
DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION	

COUNTY KAY HIGHWAY ADOBE RD STATE JOB NO. 24432(15) SHEET NO. ROO'

SOIL STABILIZATION PRACTICES:

DESCRIPTION	REVISIONS	DATE

### SITE DESCRIPTION

### EROSION AND SEDIMENT CONTROLS

	NORTH & SOUTH OF HOME ROAD ALONG 1-35.
	OF THE SH-177 & I-35 JUNCTION ALONG THE
I-35 CORRIDOR.	
PROJECT DESCRIPTION: REMOVE EXIST	ING BRIDGE AND APPURTENANCES. ADJUST
DITCH GRADING ALONG 1-35. INCLUDES	REMOVAL OF EXISTING REINFORCED
CONCRETE BOX ON I-35.	
SUGGESTED SEQUENCE OF EROSION CO	ONTROL ACTIVITIES:
PRIOR TO INITIATING SOIL DISTURBING AC	TIVITIES, THE CONTRACTOR WILL INSTALL
ALL PERIMETER TEMPORARY SEDIMENT CO	NTROLS SPECIFIED. STRIP, STOCKPILE AND
	LY IN NECESSARY AREAS, PRESERVING AS
MUCH NATIVE VEGETATION AS POSSIBLE.	•
TEMPORARY SEDIMENT ITEMS WITH CONST	
DIRECTED BY THE ENGINEER, PLANT TEMP TOPSOIL AND DEVICES WHEN AN ACCEPTA	
HAS BEEN ATTAINED. AS SITE CONDITIONS	
CHOOSE TO MODIFY THE TYPE OR ARRAN	<u> </u>
IMPROVE THEIR EFFECTIVENESS AS APPRO	VED BY THE ENGINEER. THE CONTRACTOR
WILL MAINTAIN A LOG OF MAJOR SOIL DI	
DATES OF INSTALLATION OF EROSION CON	ITROL MEASURES.
SOIL TYPE: KIRKL	AND SILT LOAM
TOTAL AREA OF THE CONSTRUCTION SITE: $1.68$	ACRES (73,181 SF)
STIMATED AREA TO BE DISTURBED: 1.68	ACRES (73,181 SF)
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)	
TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 0.13	ACRES (5,620 SF)
TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 0.00	ACRES (0 SF)
POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.40	
LATITUDE & LONGITUDE of center of project: <u>N36°5</u>	57'21" W97°20'44"
PROJECT WILL	DISCHARGE TO:
NAME OF RECEIVING WATERS: DRY	CREEK
NSITIVE WATERS OR WATERSHEDS:	YES NO X
303(D) IMPAIRED WATERS:	YES NO X
IF YES, LIST IMPAIRMENT:	
LOCATED IN A TMDL:	YES NO X
LAKE THUNDERBIRD TMDL:	YES NO X
MS4 ENTITY	YES NO X
NOTE: IF YES, LOCATION:	
THIS SHEET SHOULD BE USED IN CONJUNC	
THAT ILLUSTRATES THE DRAINAGE PATT	ERNS/PATHWAYS AND RECEIVING WATERS ALSO BE USED WITH THE EROSION

CONTROL SUMMARIES, PAY ITEMS, & NOTES.

		_ TEMPORARY SEEDING
		PERMANENT SODDING, SPRIGGING OR SEEDING
		_ VEGETATIVE MULCHING
		_ SOIL RETENTION BLANKET
		PRESERVATION OF EXISTING VEGETATION
ALL DI	STURBE VER 14 (	RARY EROSION CONTROL METHODS MUST BE USED ON ED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, ED BY THE ENGINEER.
STRU	JCTUI	RAL PRACTICES:
		_ STABILIZED CONSTRUCTION EXIT
		_ TEMPORARY SILT FENCE
	X	_ TEMPORARY SILT DIKES
	X	_ 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
		_ TEMPORARY SEDIMENT FILTERS _ TEMPORARY SEDIMENT REMOVAL
		RIPRAP
		_ INLET SEDIMENT FILTER
		_ TEMPORARY BRUSH SEDIMENT BARRIERS
		_ SANDBAG BERMS
		_ TEMPORARY STREAM CROSSINGS
OFFS	SITE V	EHICLE TRACKING:
		_ HAUL ROADS DAMPENED FOR DUST CONTROL
		LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
		EXCESS DIRT ON ROAD REMOVED DAILY
		_ LAGESS DIKT ON KOAD KEINIOVED DAILT
NO	ΓES:	

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 SOILE 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 2009 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

 $220 \quad \text{MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL }$ 

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, SEPTEMBER 13, 2017.

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION		
DRAWN	ALM	09/18	NOADWA I DESIGN DIVISION		
CHECKED	BDC	09/18	J J J J J J J J J J J J J J J J J J J		
APPROVED	JRW	09/18			MANAGEMENT PLAN
SQUAD					
COUNTY	KA	Υ	HIGHWAY HOME RD STATE JOB NO. 24432(15) SHEET NO. ROO8		

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SOIL STABILIZATION PRACTICES:

DESCRIPTION	REVISIONS	DATE

### SITE DESCRIPTION

### EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: APPROX. 1/8	MILE EAST & WEST OF 1-35 ALONG INDIAN ROAD.
INDIAN IS LOCATED 2 MILES NORTH	OF THE SH-177 & I-35 JUNCTION ALONG THE
	LT WIDENING FOR CROSSOVER APPROX 1/4 MILE
S. OF INDIAN ROAD.	DDDCC DDOCUE AND ADJUST DOADWAY DDOCUE TO
	RIDGE PROFILE AND ADJUST ROADWAY PROFILE TO ACING GUARDRAIL AND RESHAPING SLOPES TO
MATCH RAISE PROFILE GRADE OF	
SUGGESTED SEQUENCE OF EROS	ION CONTROL ACTIVITIES:
•	NG ACTIVITIES, THE CONTRACTOR WILL INSTALL
ALL PERIMETER TEMPORARY SEDIME	NT CONTROLS SPECIFIED. STRIP, STOCKPILE AND
STABILIZE TOPSOIL. CLEAR AND GRU	UB ONLY IN NECESSARY AREAS, PRESERVING AS
MUCH NATIVE VEGETATION AS POSS	SIBLE. INSTALL, MAINTAIN AND/OR MOVE
	CONSTRUCTION OPERATIONS AS PRACTICAL, IF
	TEMPORARY SEEDING, REPLACE SALVAGED
	CCEPTABLE VEGETATIVE COVER (AT LEAST 70%) DITIONS WARRANT, THE CONTRACTOR MAY
	ARRANGEMENT OF SPECIFIED PRACTICES TO
IMPROVE THEIR EFFECTIVENESS AS	APPROVED BY THE ENGINEER. THE CONTRACTOR
	OIL DISTURBANCE ACTIVITIES, AND ALSO THE
DATES OF INSTALLATION OF EROSIO	N CONTROL MEASURES.
SOIL TYPE:	KIRKLAND SILT LOAM
TOTAL AREA OF THE	2.09 ACRES (91,019 SF) INDIAN
CONSTRUCTION SITE:	+0.08 ACRES(3,300 SF) CROSSOVER= 2.17 ACRES
ESTIMATED AREA TO BE DISTURBED:	2.17 ACRES (94,319 SF)
OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)	
TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION:	0.16 ACRES (7,100 SF)
TOTAL IMPERVIOUS AREA POST-CONSTRUCTION:	0.25 ACRES (10,800 SF)
POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE:	0.45
LATITUDE & LONGITUDE OF CENTER OF PROJECT:	
OF CENTER OF FROJECT:	100 00 10 1107 20 111
PROJECT	WILL DISCHARGE TO:
NAME OF RECEIVING WATERS:	SHOO FLY CREEK/DRY CREEK
SENSITIVE WATERS OR WATERSHEDS:	YES NO X
303(D) IMPAIRED WATERS:	YES NO X
IF YES, LIST IMPAIRMENT:	
LOCATED IN A TMDL:	YES NO X
LAKE THUNDERBIRD TMDL:	YES NO X
MS4 ENTITY	YES NO X
NOTE: IF YES, LOCATION:	
THIS SHEET SHOULD BE USED IN CO THAT ILLUSTRATES THE DRAINAGE	ONJUNCTION WITH A DRAINAGE MAP E PATTERNS/PATHWAYS AND RECEIVING WATERS HOULD ALSO BE USED WITH THE EROSION

CONTROL SUMMARIES, PAY ITEMS, & NOTES.

TEMPORARY SEEDING
X PERMANENT SODDING, SPRIGGING OR SEEDING
X VEGETATIVE MULCHING
SOIL RETENTION BLANKET
X 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 RIP RAP
INLET SEDIMENT FILTER
TEMPORARY BRUSH SEDIMENT BARRIERS
SANDBAG BERMS
TEMPORARY STREAM CROSSINGS
OFFSITE VEHICLE TRACKING:
HAUL ROADS DAMPENED FOR DUST CONTROL
$\underline{\hspace{1cm}}$ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
EXCESS DIRT ON ROAD REMOVED DAILY
NOTES:

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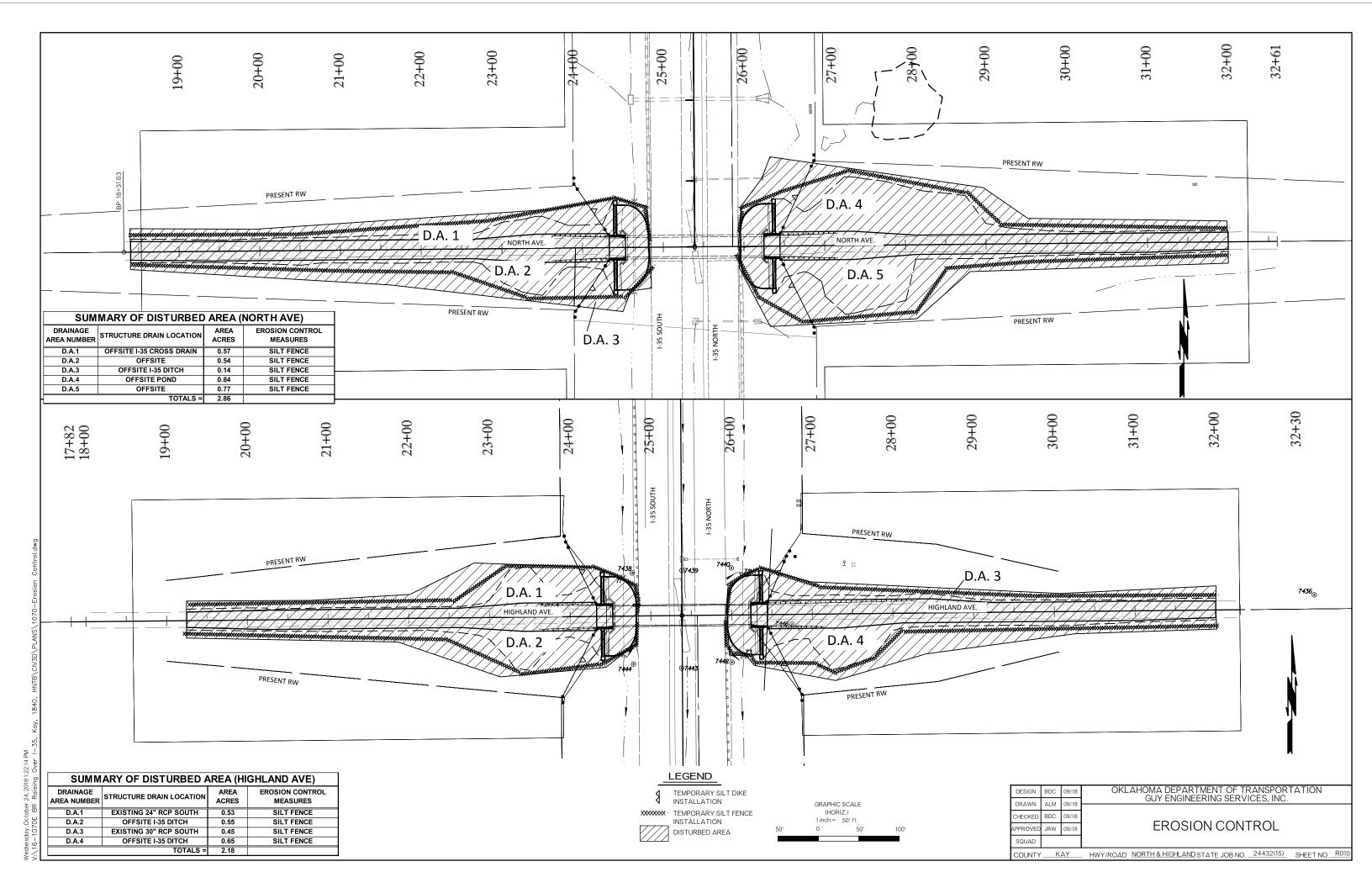
221 TEMPORARY SEDIMENT CONTROL

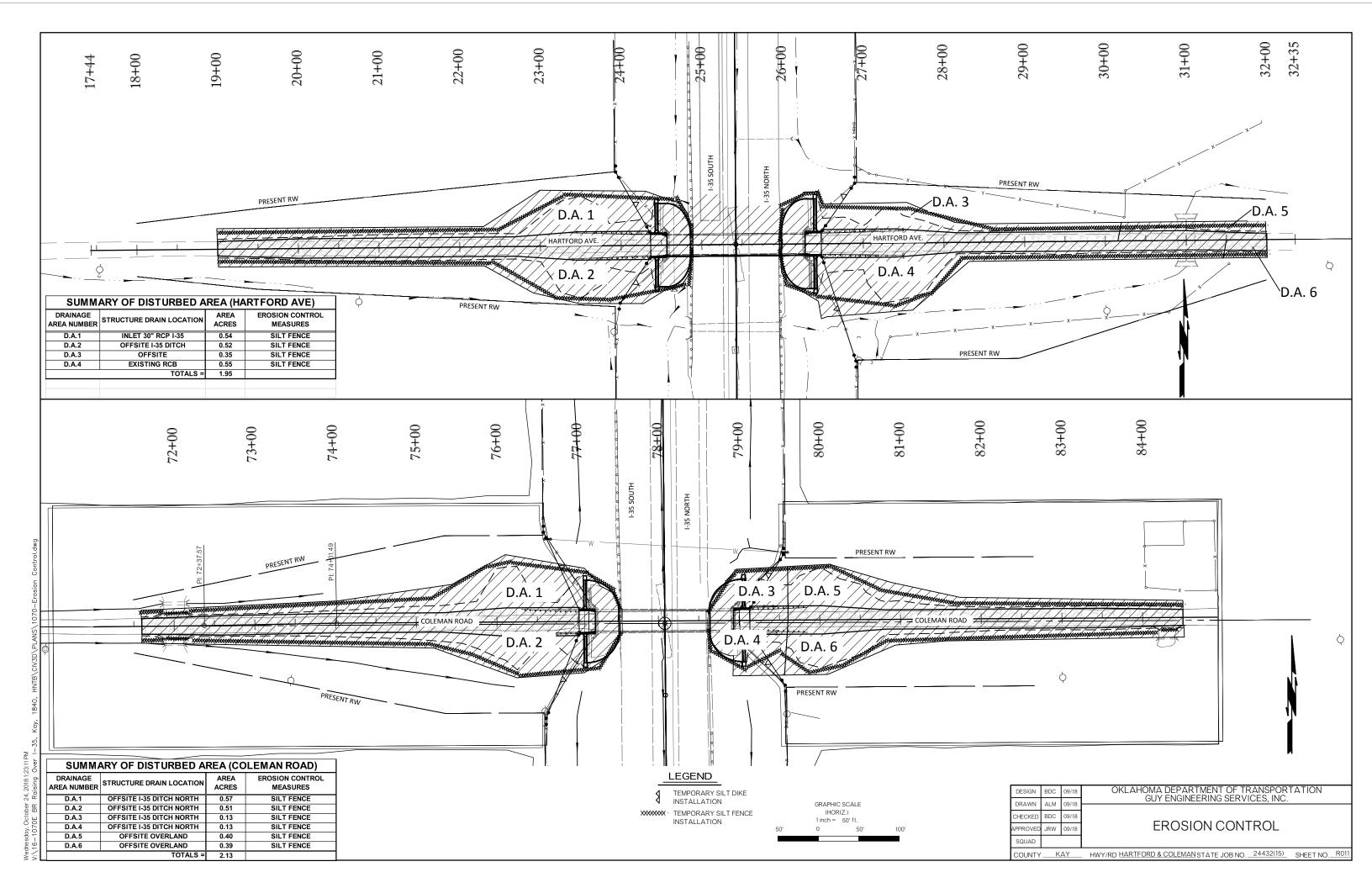
### IN ADDITION:

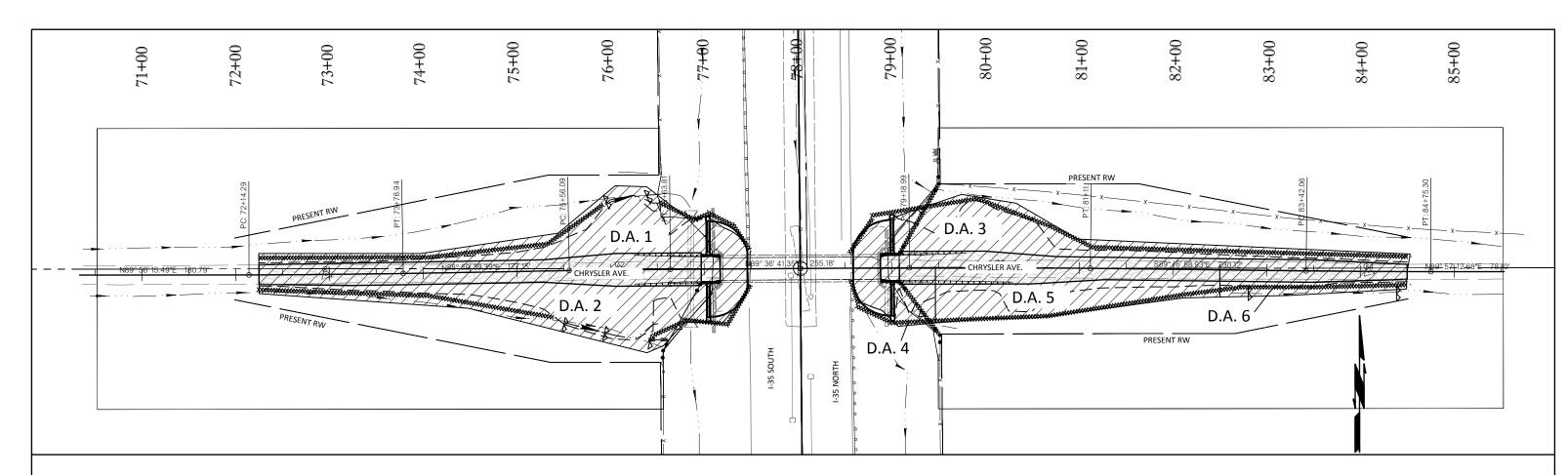
"ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ, WATER QUALITY DIVISION, SEPTEMBER 13, 2017.

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION		
DRAWN	ALM	09/18	TO NOTIFIC TO THE PROPERTY OF THE PARTY OF T		
CHECKED	BDC	09/18	STORMWATER MANAGEMENT PLAN		
APPROVED	JRW	09/18			
SQUAD			W/MA/MOEMENT TE/MA		
COUNTY_	KA	Υ	HIGHWAY INDIAN RD STATE JOB NO. 24432(15) SHEET NO. ROOS		

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SUMMARY OF DISTURBED AREA (CHRYSLER AVE)			
DRAINAGE AREA NUMBER	STRUCTURE DRAIN LOCATION	AREA ACRES	EROSION CONTROL MEASURES
D.A.1	INLET RCB I-35	0.49	SILT FENCE/SILT DIKE
D.A.2	OFFSITE I-35 DITCH	0.58	SILT FENCE/SILT DIKE
D.A.3	OFFSITE CHRYSLER DITCH	0.53	SILT FENCE
D.A.4	OFFSITE I-35 DITCH	0.10	SILT FENCE
D.A.5	OFFSITE OVERLAND	0.31	SILT FENCE
D.A.6	OFFSITE CHRYSLER DITCH	0.11	SILT FENCE/SILT DIKE
	TOTALS =	2 12	

LEGEND

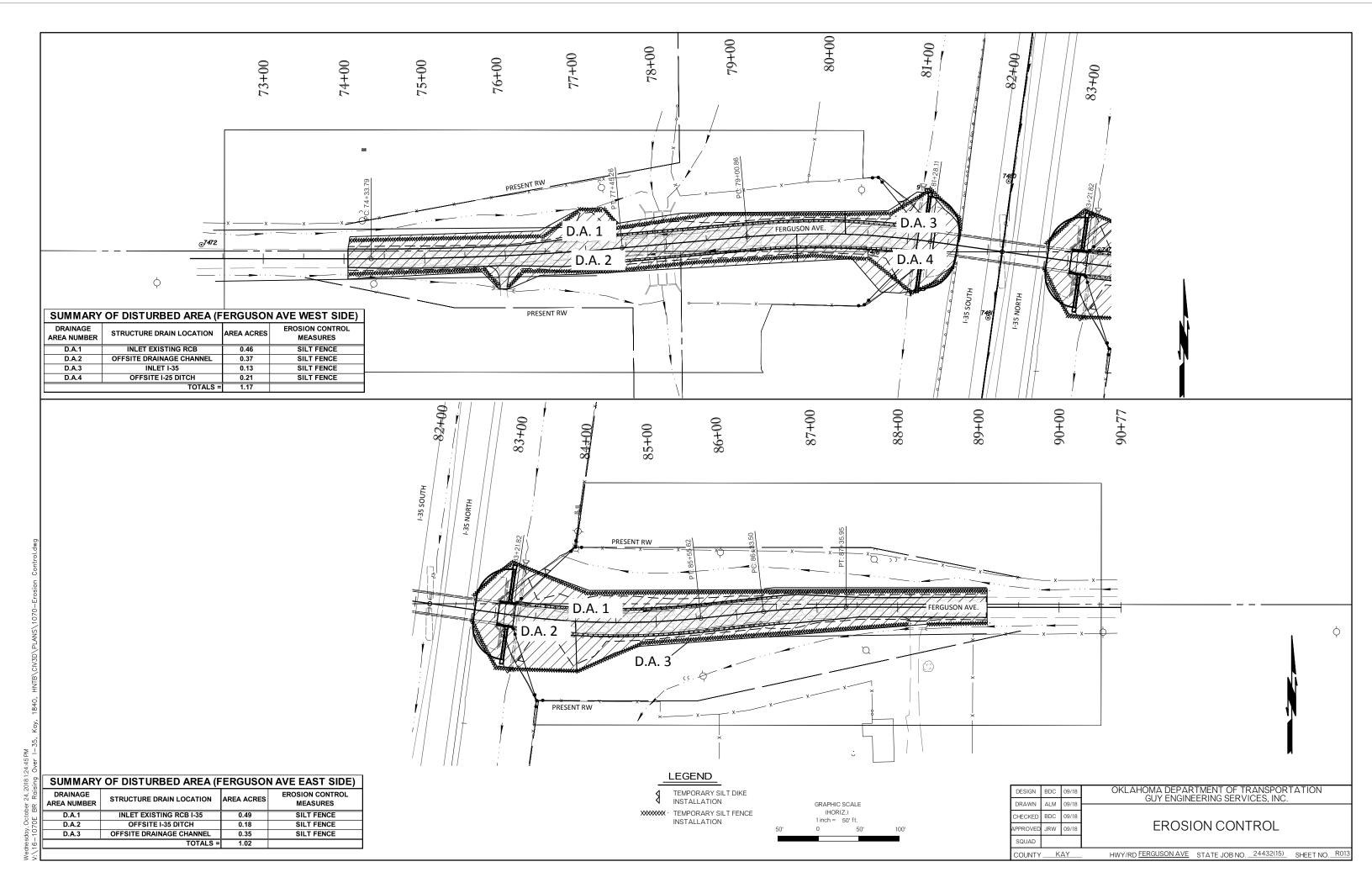
TEMPORARY SILT DIKE INSTALLATION

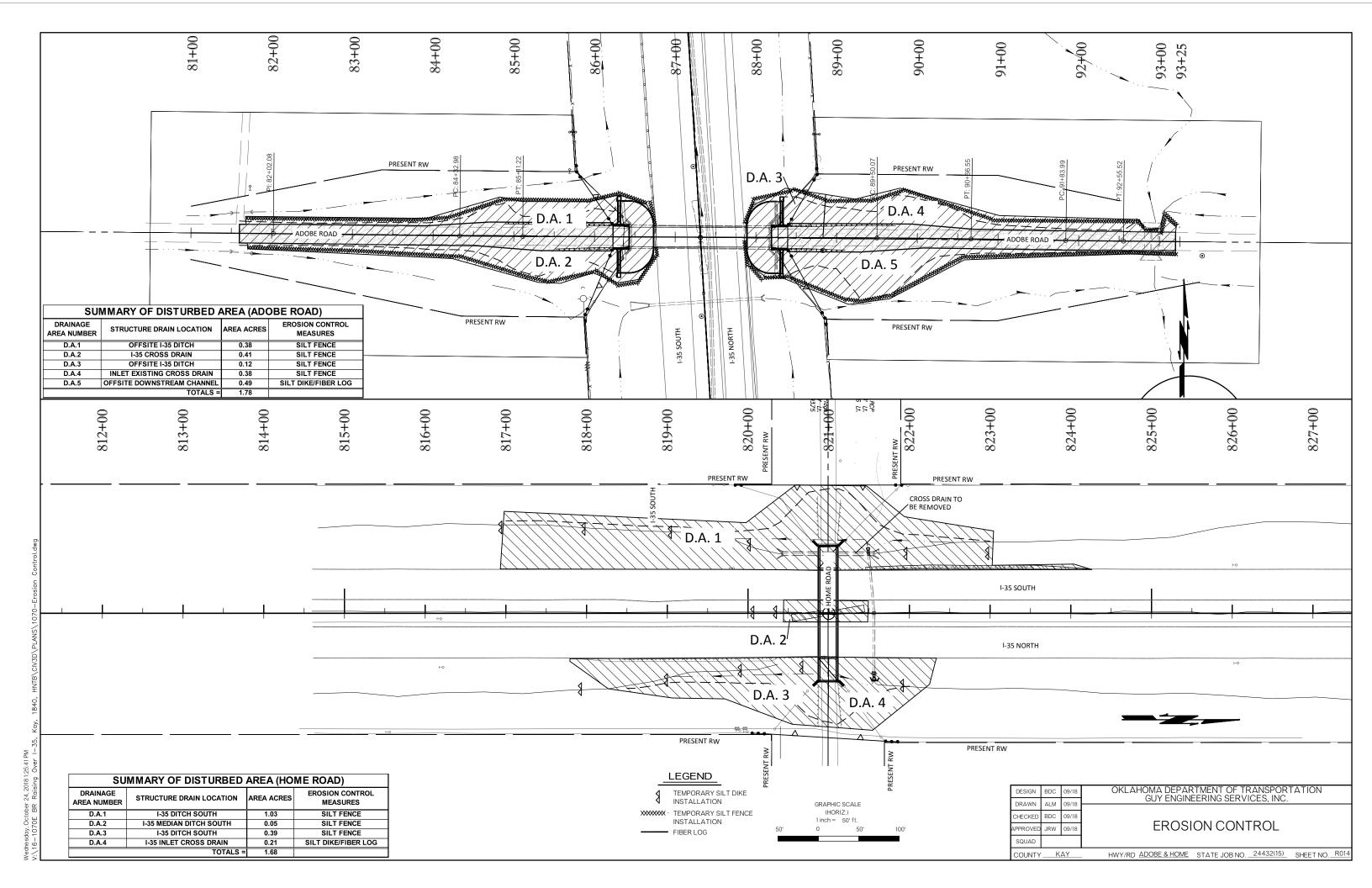
XXXXXXX TEMPORARY SILT FENCE INSTALLATION

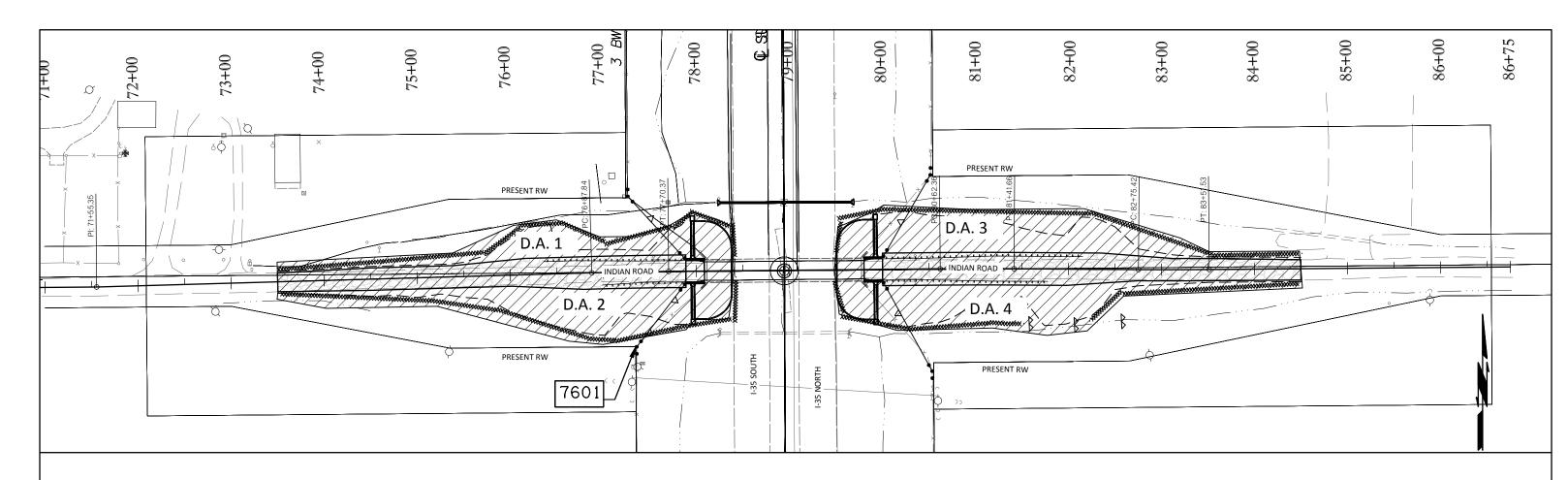
	C SCALE RIZ.)	
1 inch =	50' ft.	
0	50'	100'

DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION		
DRAWN	ALM	09/18	GUY ENGINEERING SERVICES, INC.		
CHECKED	BDC	09/18	EDOCIONI CONTROL		
APPROVED	JRW	09/18	EROSION CONTROL		
SQUAD					
COLINTY	LINTY KAY		HWY/RD CHRYSLER AVE STATE JOB NO. 24432(15) SHEET NO. RO	112	

rilday. Octobel za, zulo 4.02.39 rivi V.\16-1070E BR Raising Over I-35, Kay, 1840, HNTB\CIV3D\PLANS\1070-Erosion Control.dv







SUMMARY OF DISTURBED AREA (INDIAN ROAD)			
DRAINAGE AREA NUMBER	STRUCTURE DRAIN LOCATION	AREA ACRES	EROSION CONTROL MEASURES
D.A.1	CROSS DRAIN I-35	0.43	SILT FENCE
D.A.2	CROSS DRAIN I-35	0.55	SILT FENCE
D.A.3	OFFSITE DITCH INDIAN ROAD	0.57	SILT FENCE
D.A.4	OFFSITE DITCH INDIAN ROAD	0.55	SILT DIKE/FIBER LOG
	TOTALS =	2.09	

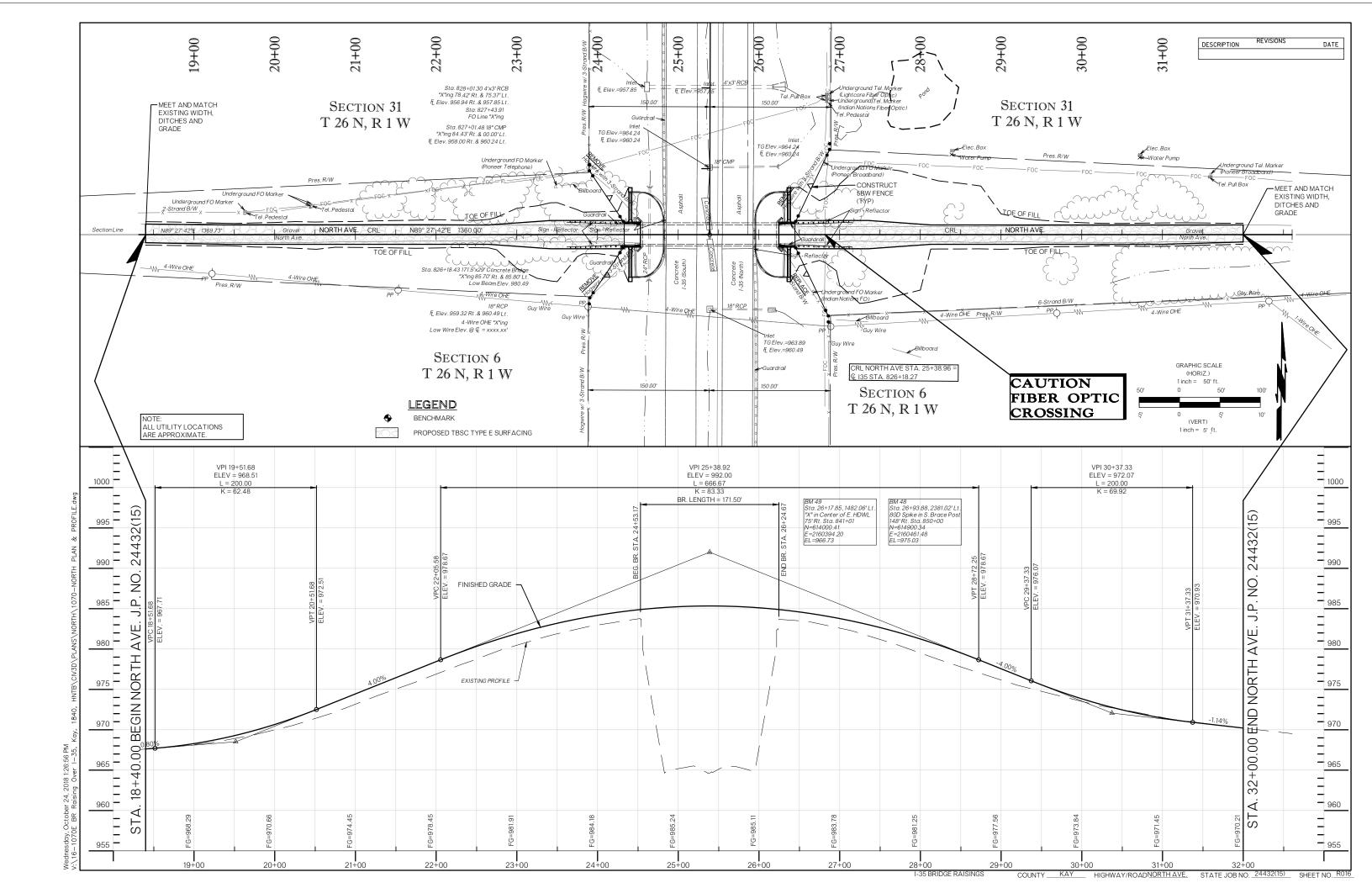
LEGEND

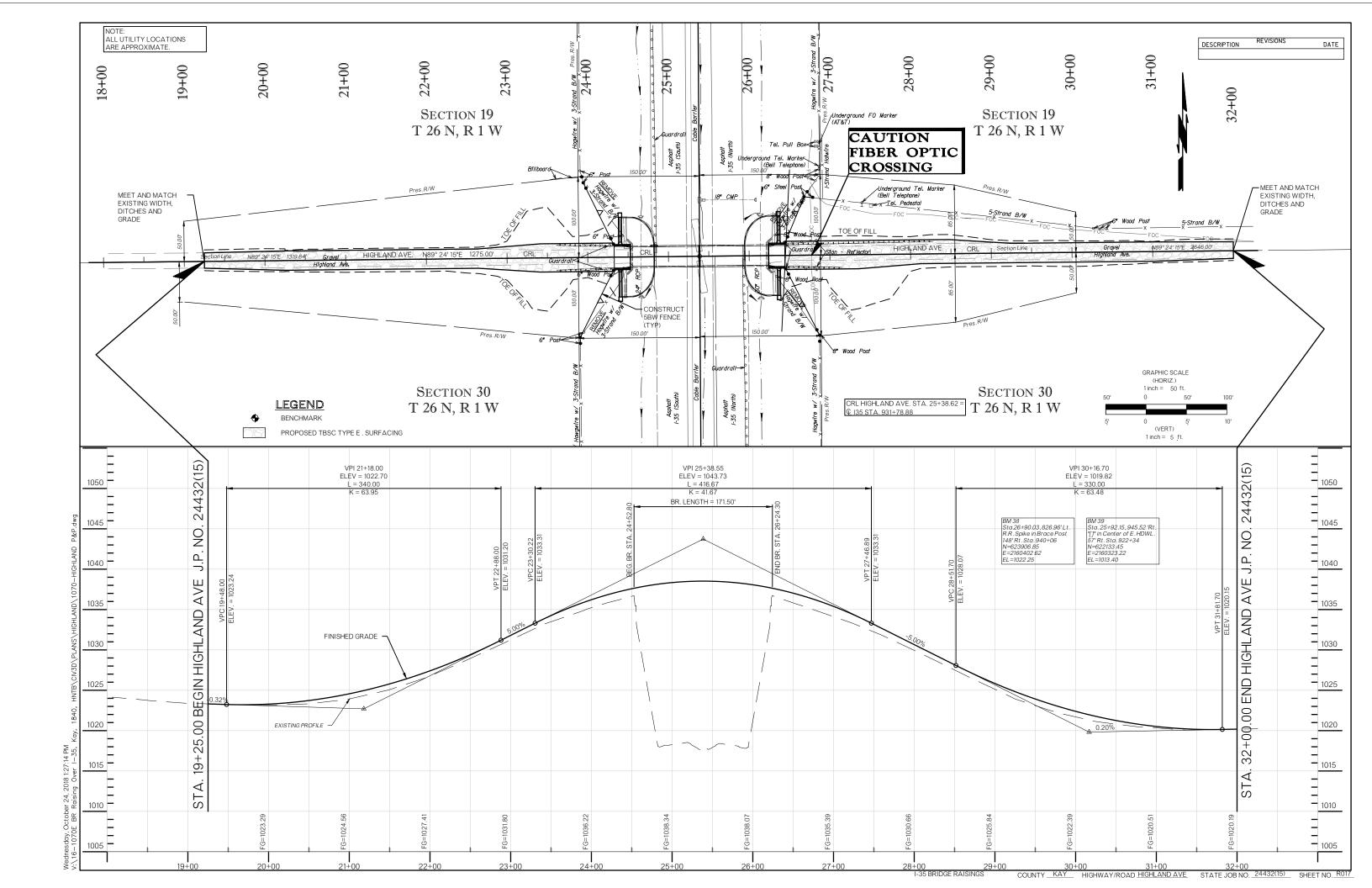
TEMPORARY SILT DIKE INSTALLATION

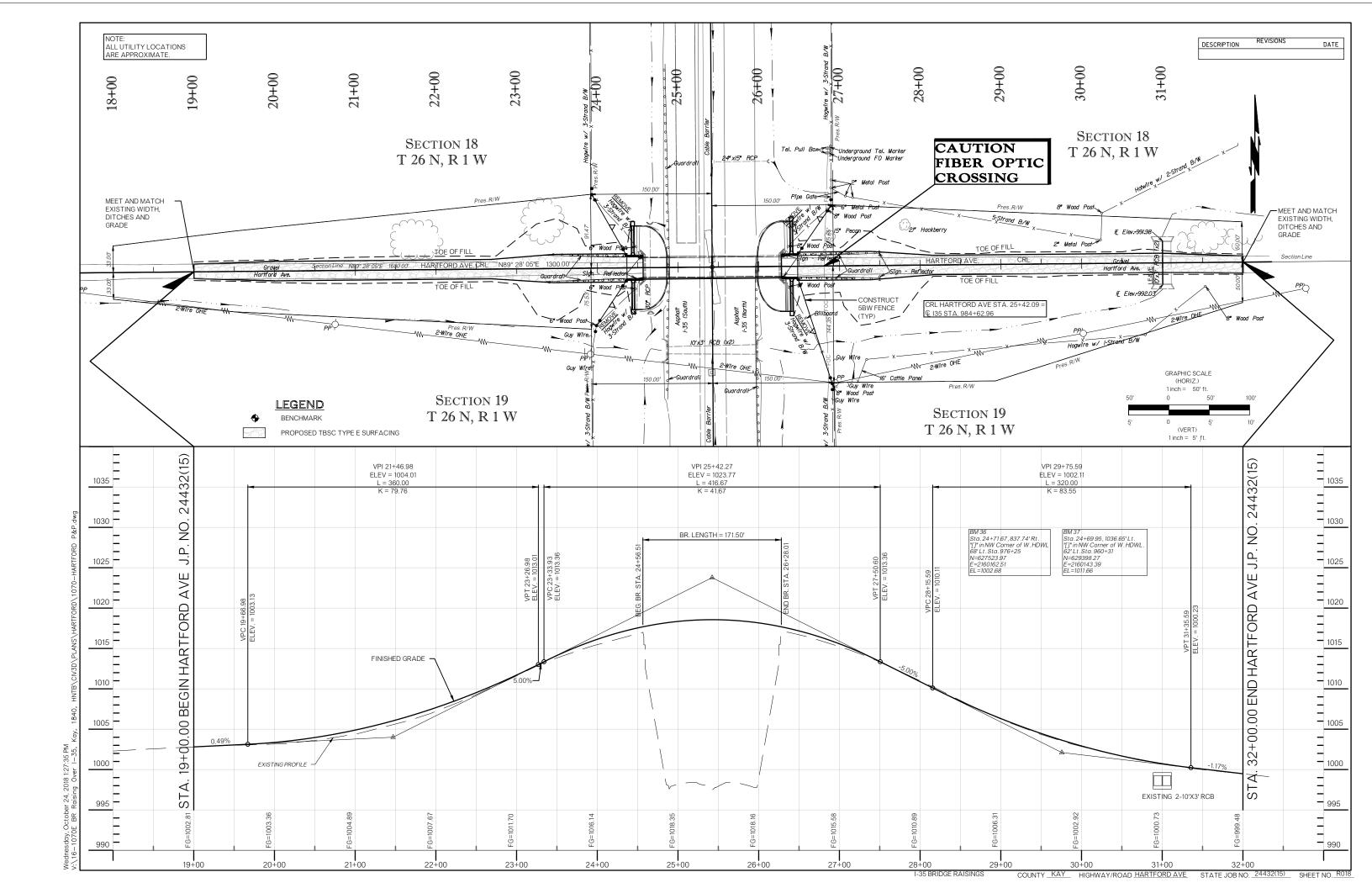
GRAPHIC SCALE (HORIZ.) 1 inch = 50' ft. 0 50' 100'

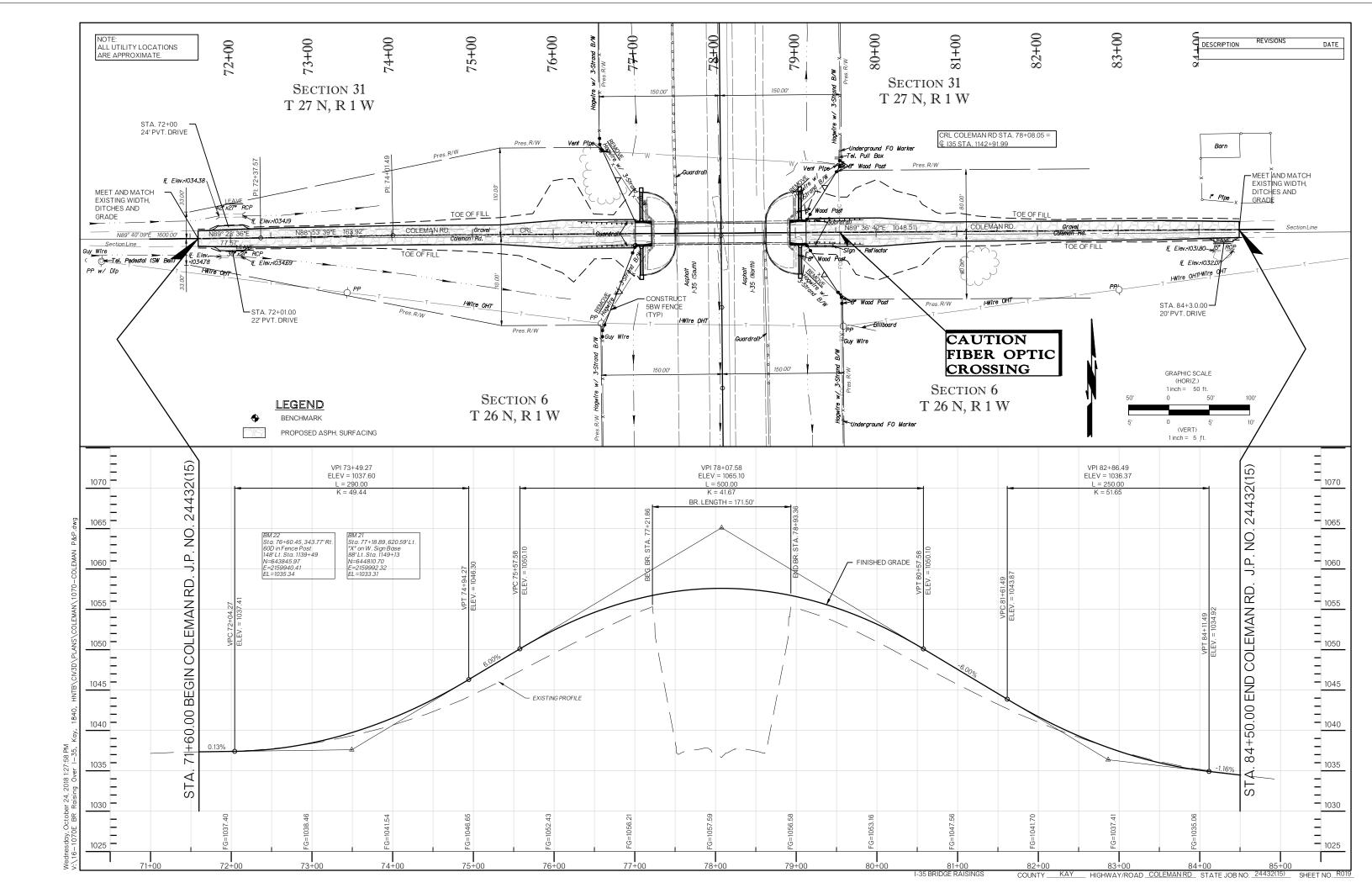
DESIGN	BDC	09/18	OKLAHOMA DEPARTMENT OF TRANSPORTATION GUY ENGINEERING SERVICES. INC.		
DRAWN	ALM C	00/10	ALM 09/18	GOT ENGINEERING SERVICES, INC.	
DRAWN ALW 09		09/10			
CHECKED	BDC	09/18	EROSION CONTROL		
APPROVED	JRW	09/18			
SQUAD					
COUNTY KAY			HIGHWAY/ROAD INDIAN RD STATE JOB NO. 24432(15) SHEET NO. R015		

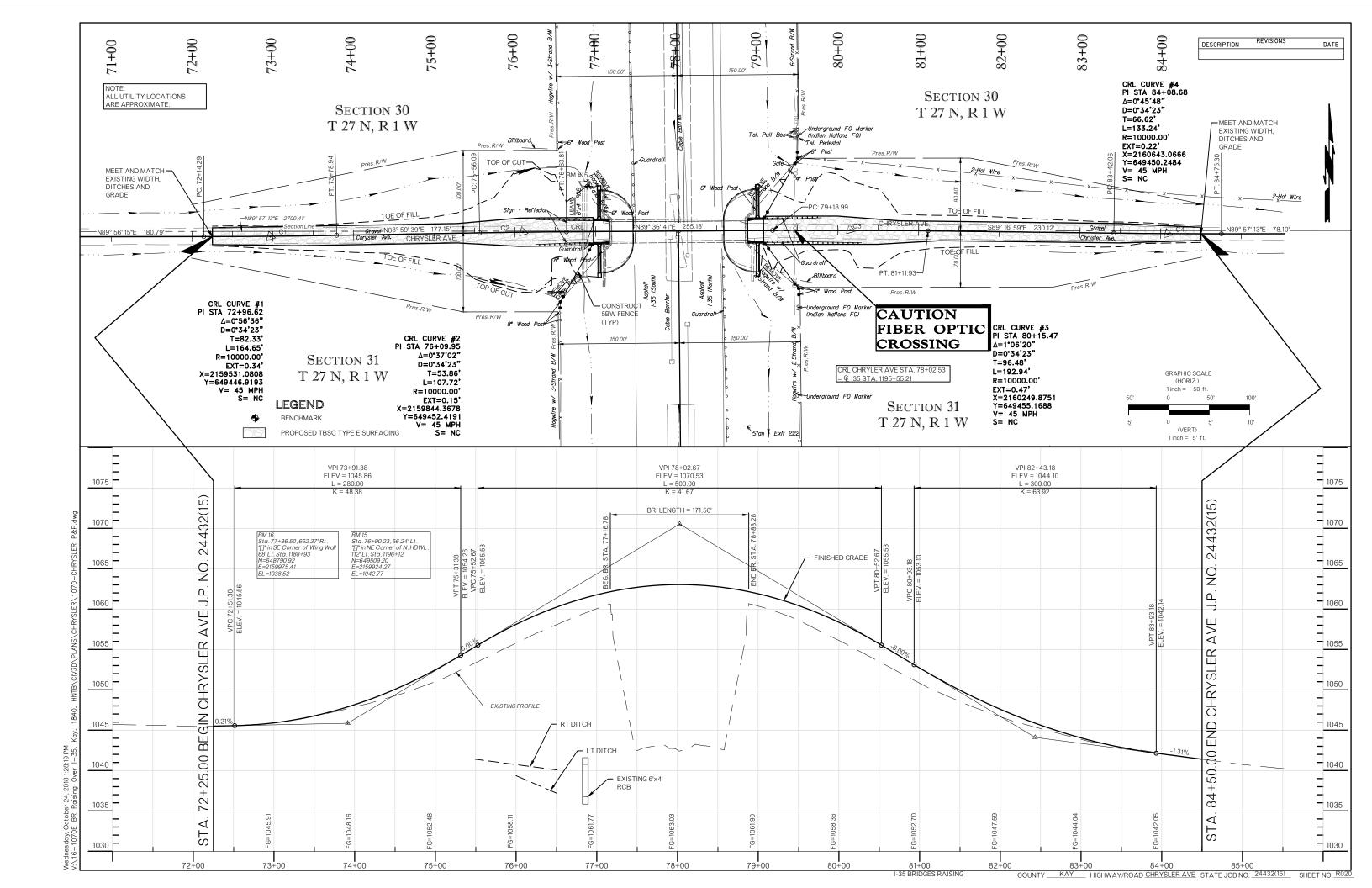
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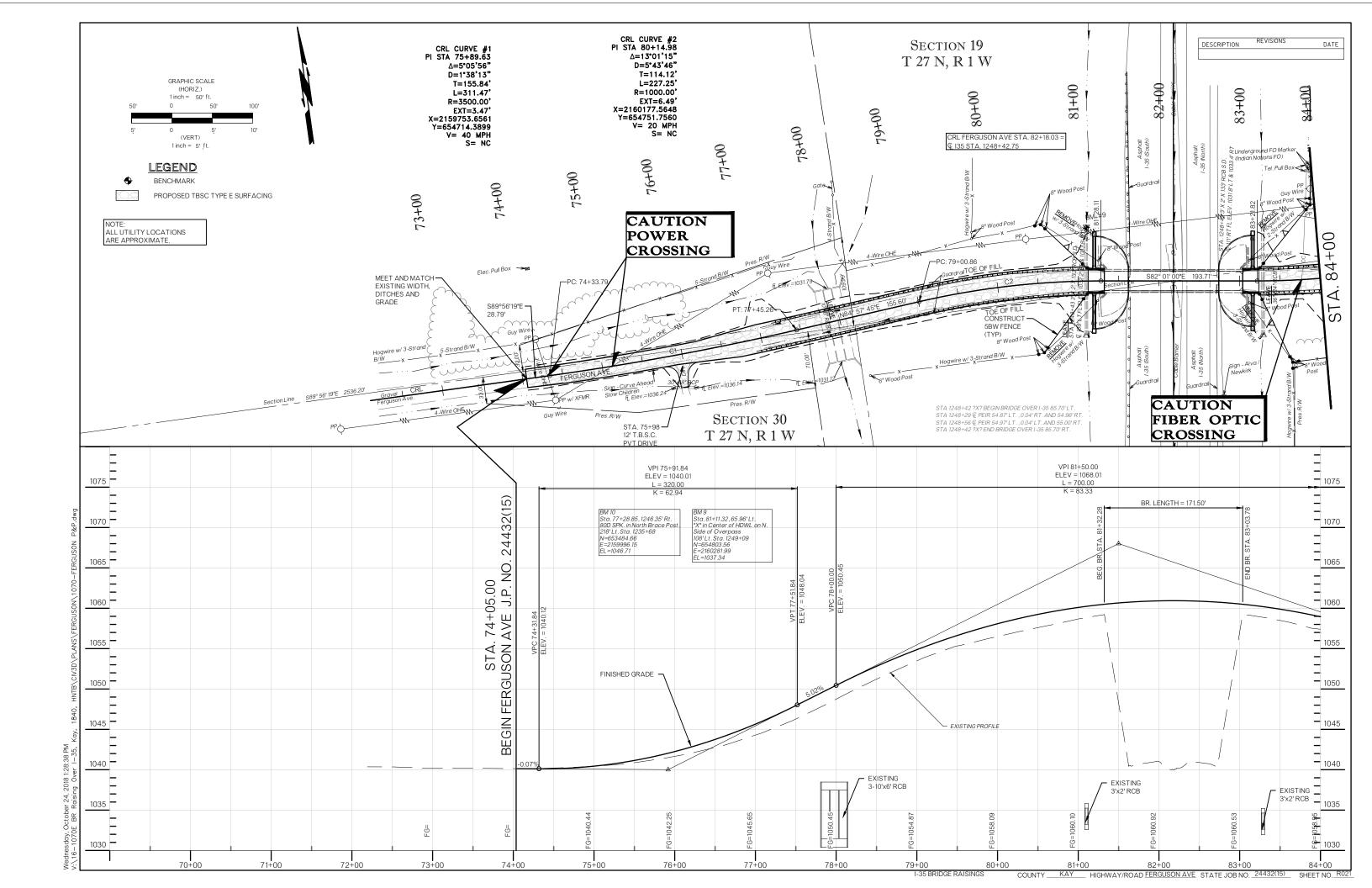


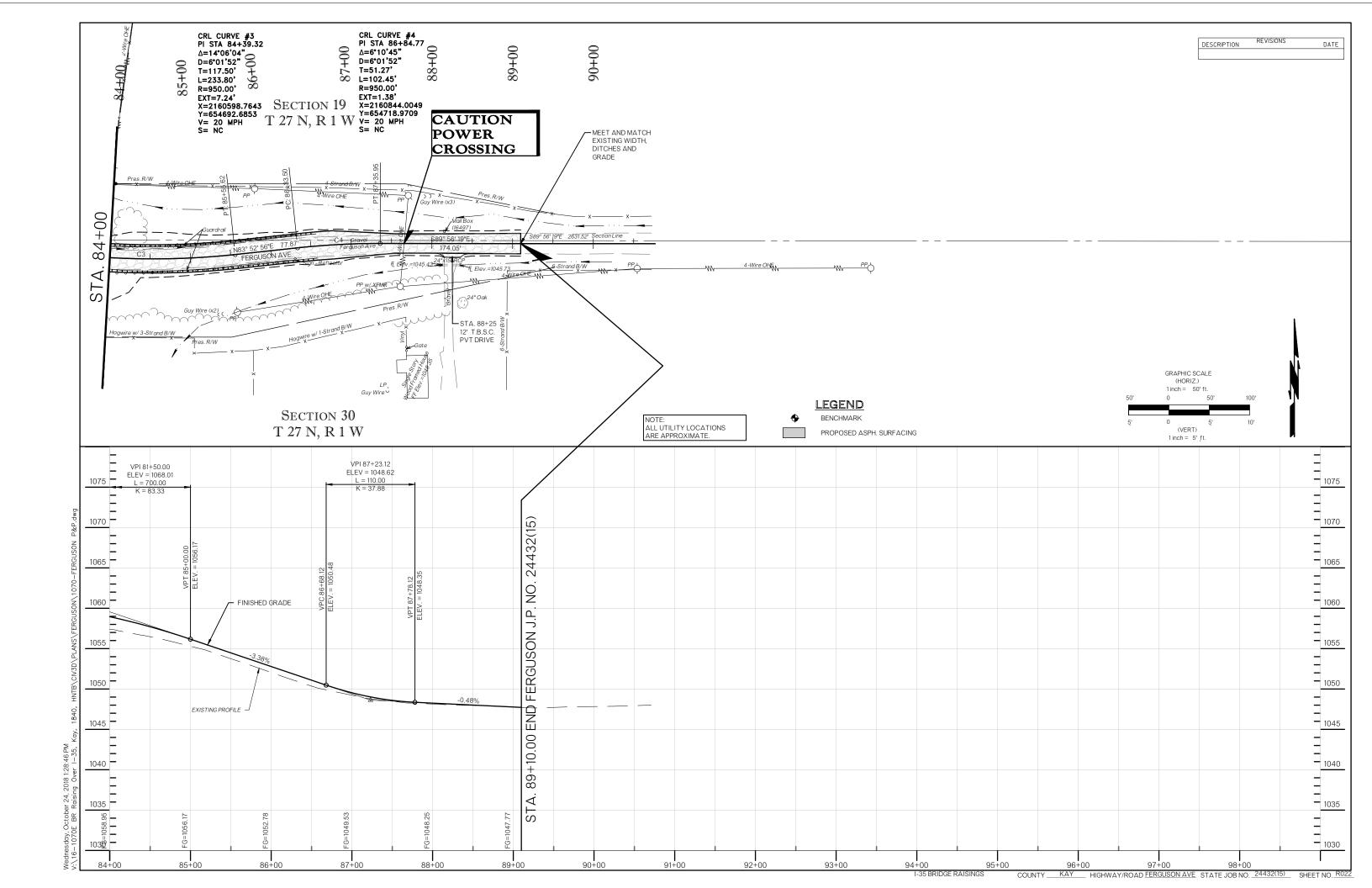


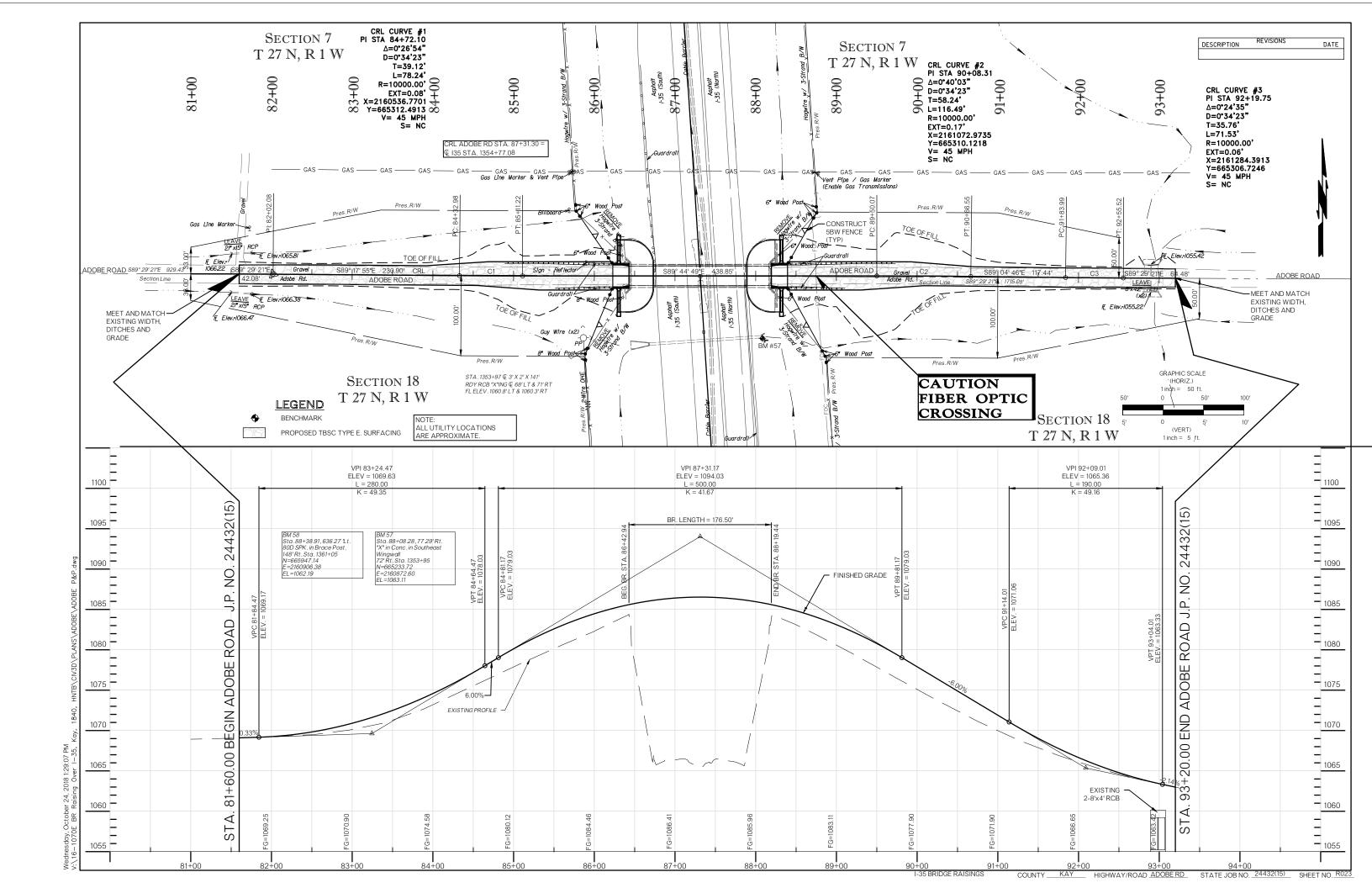


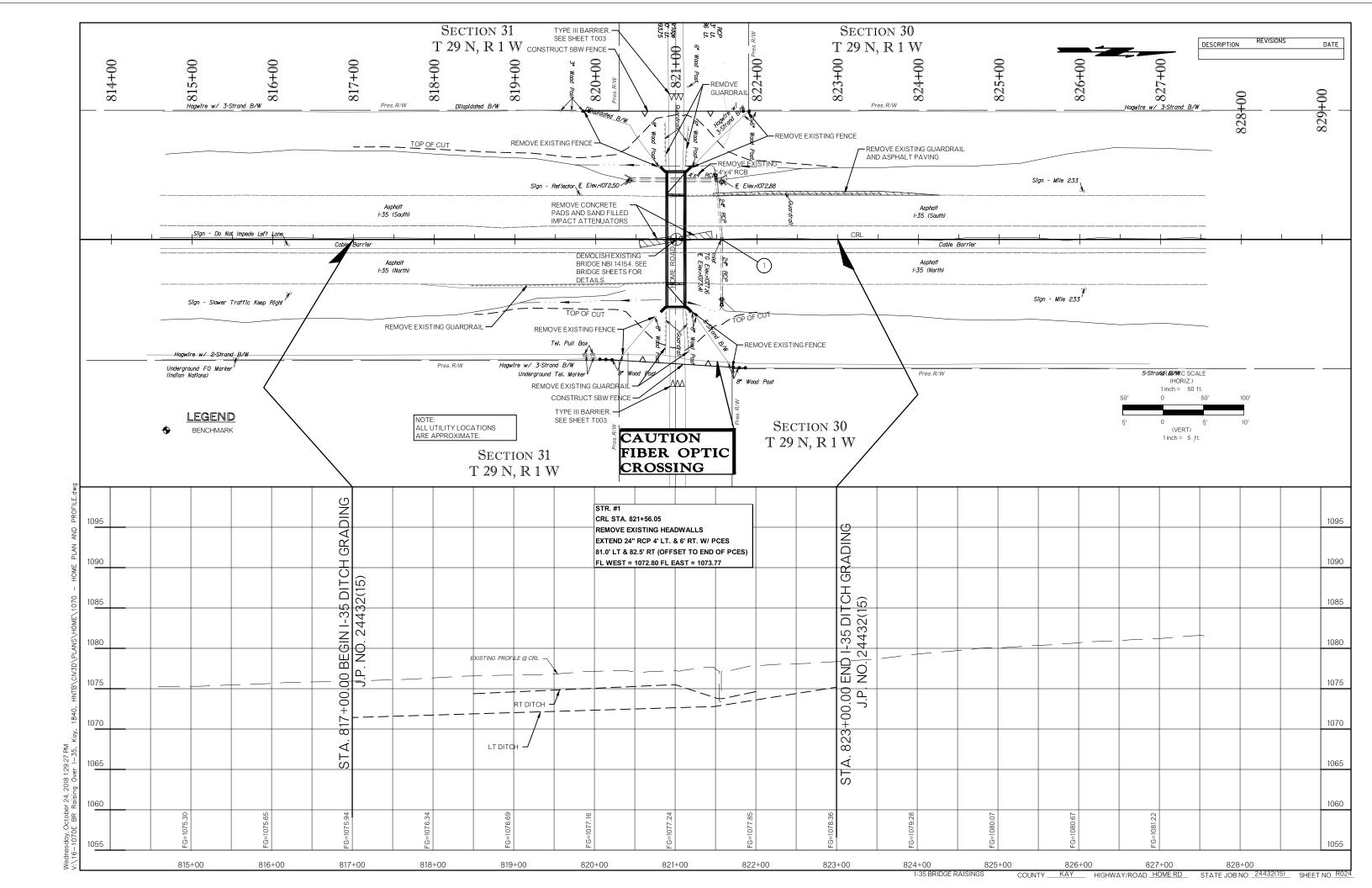


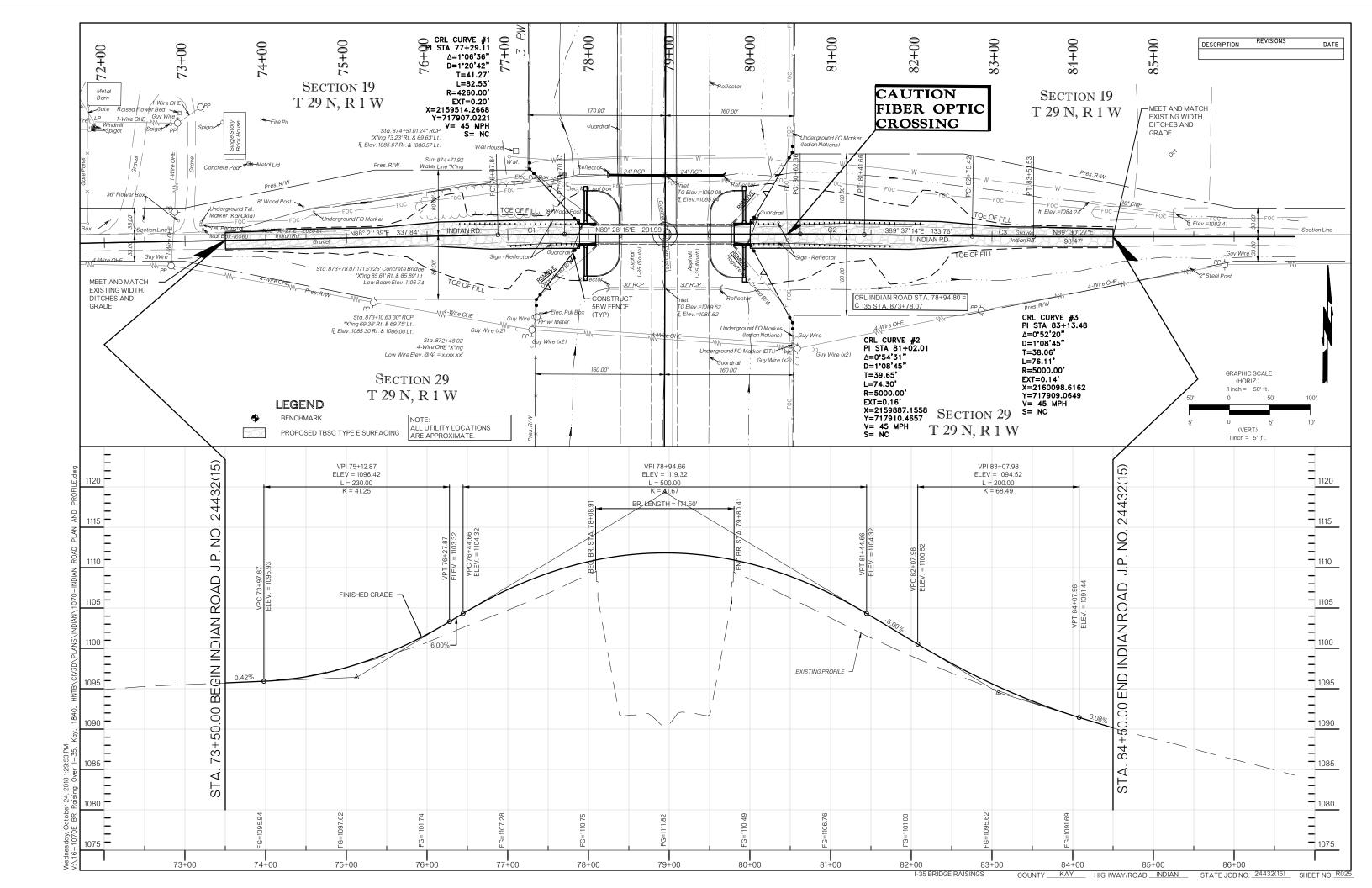


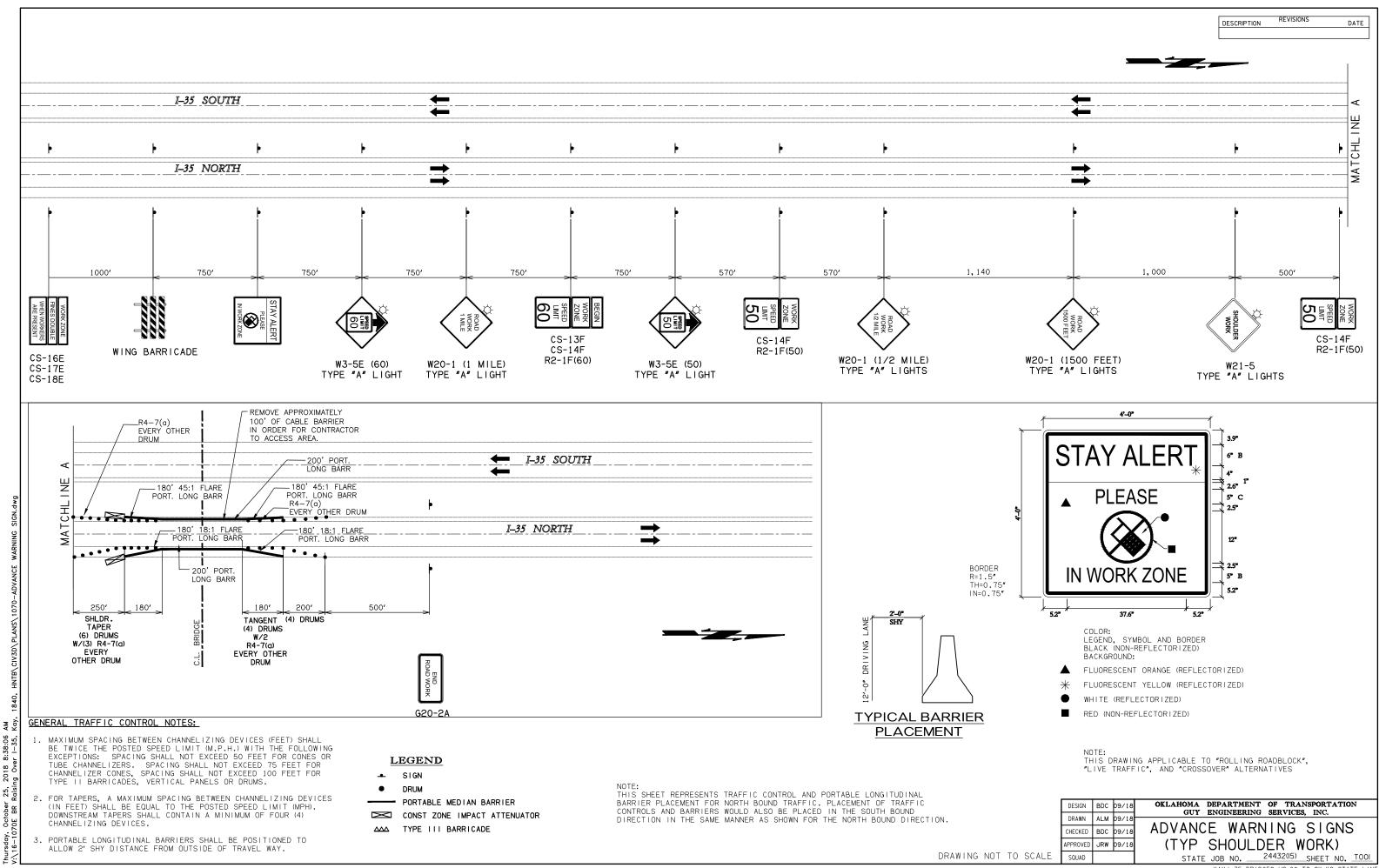




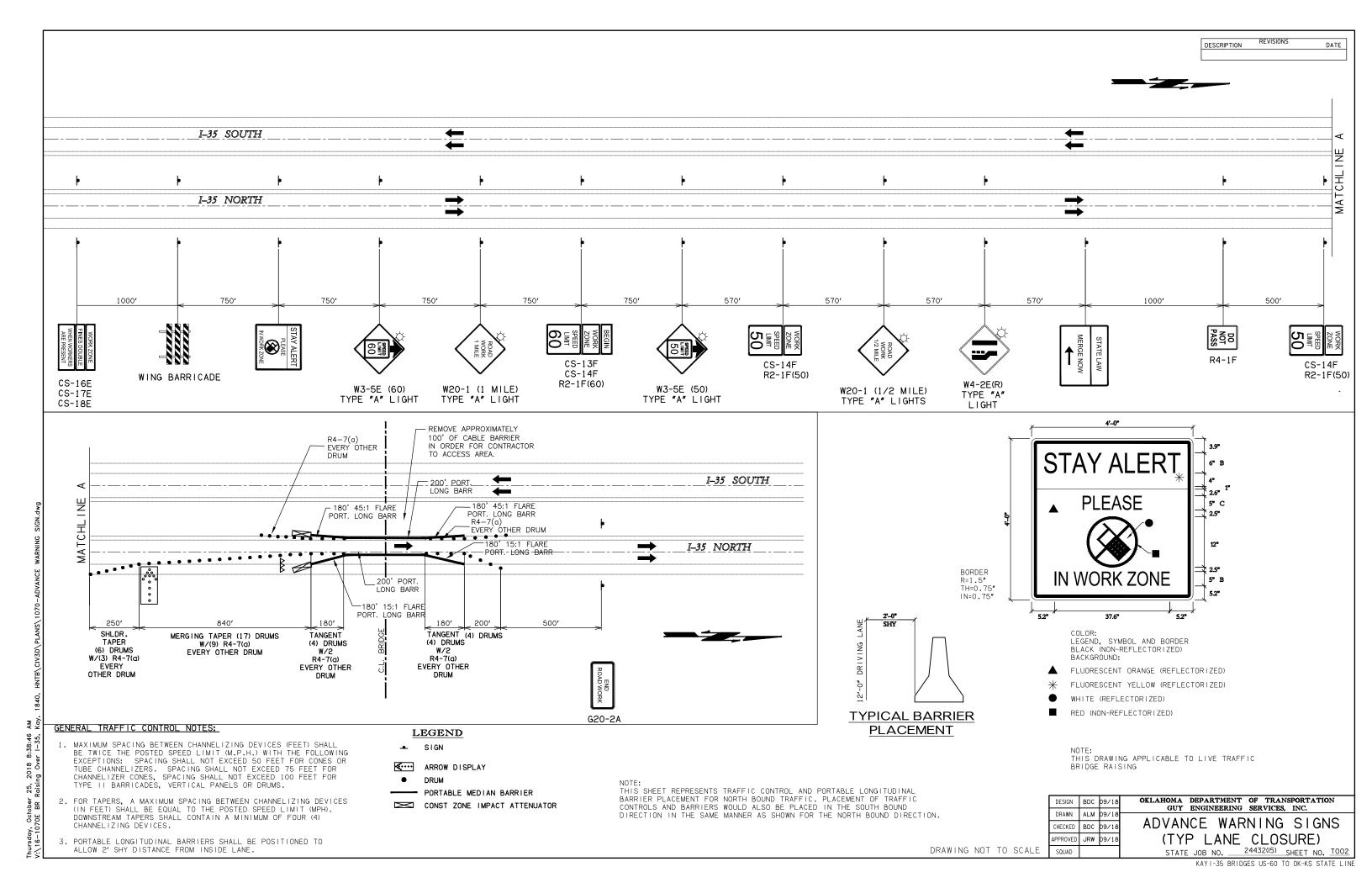


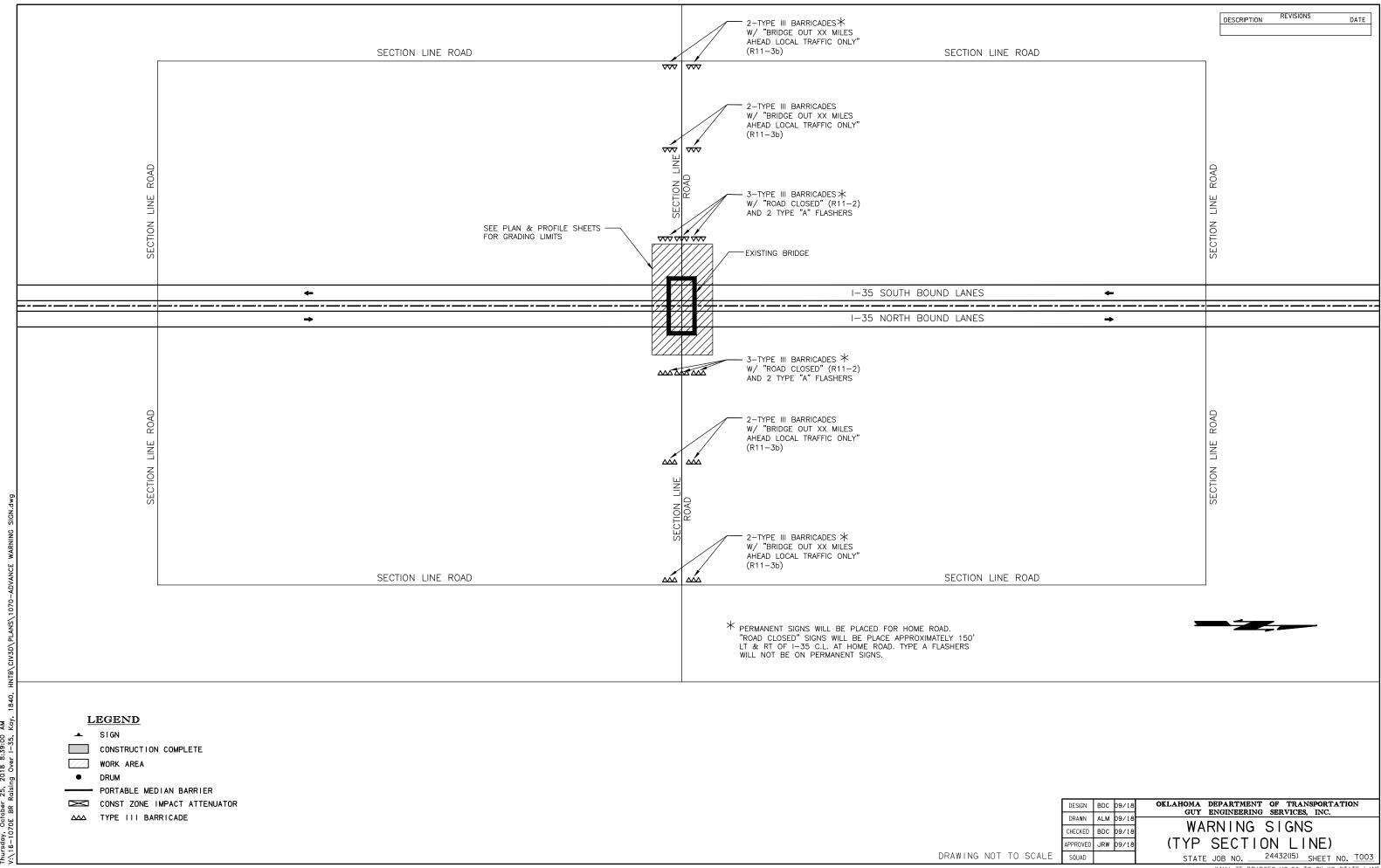


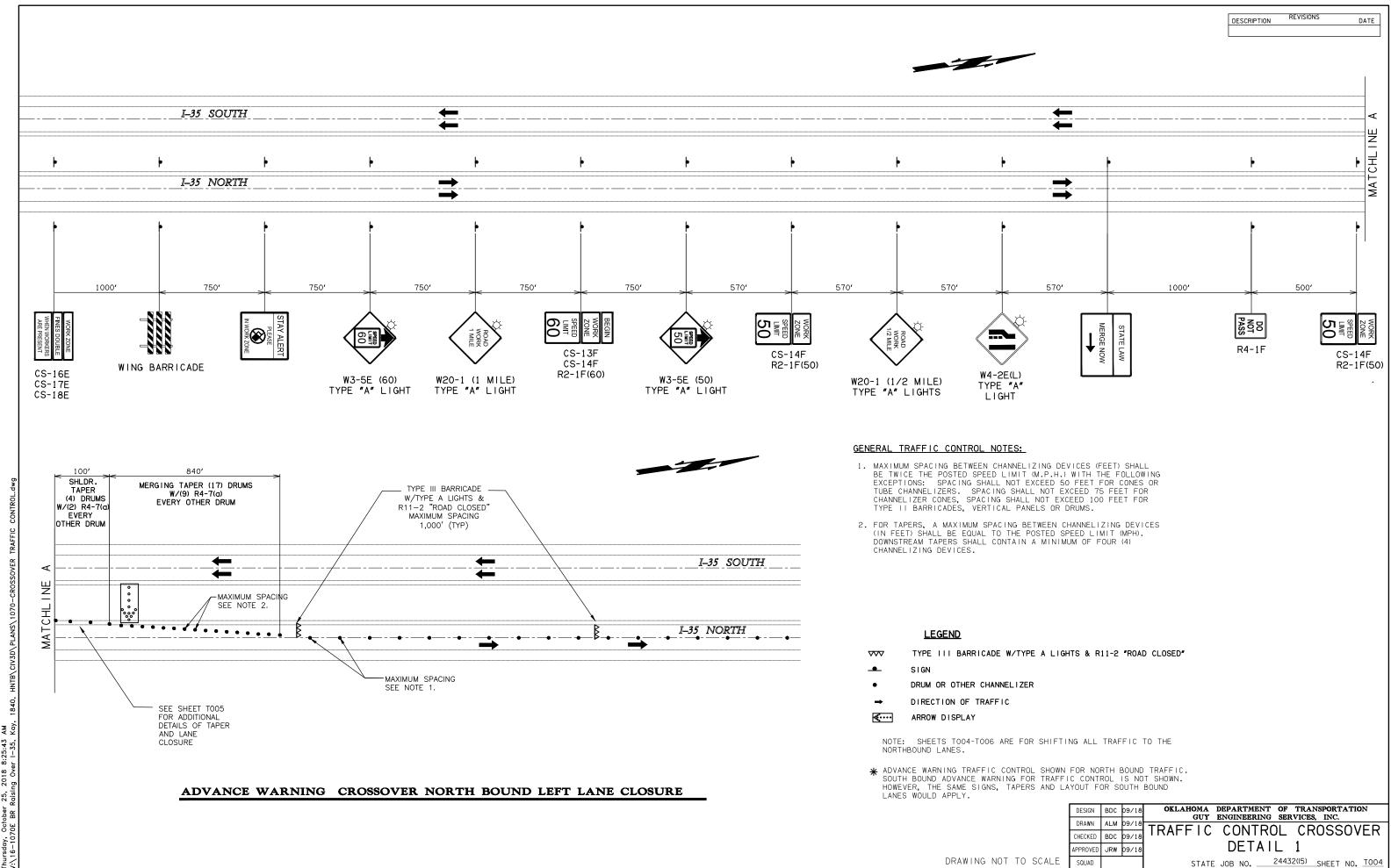


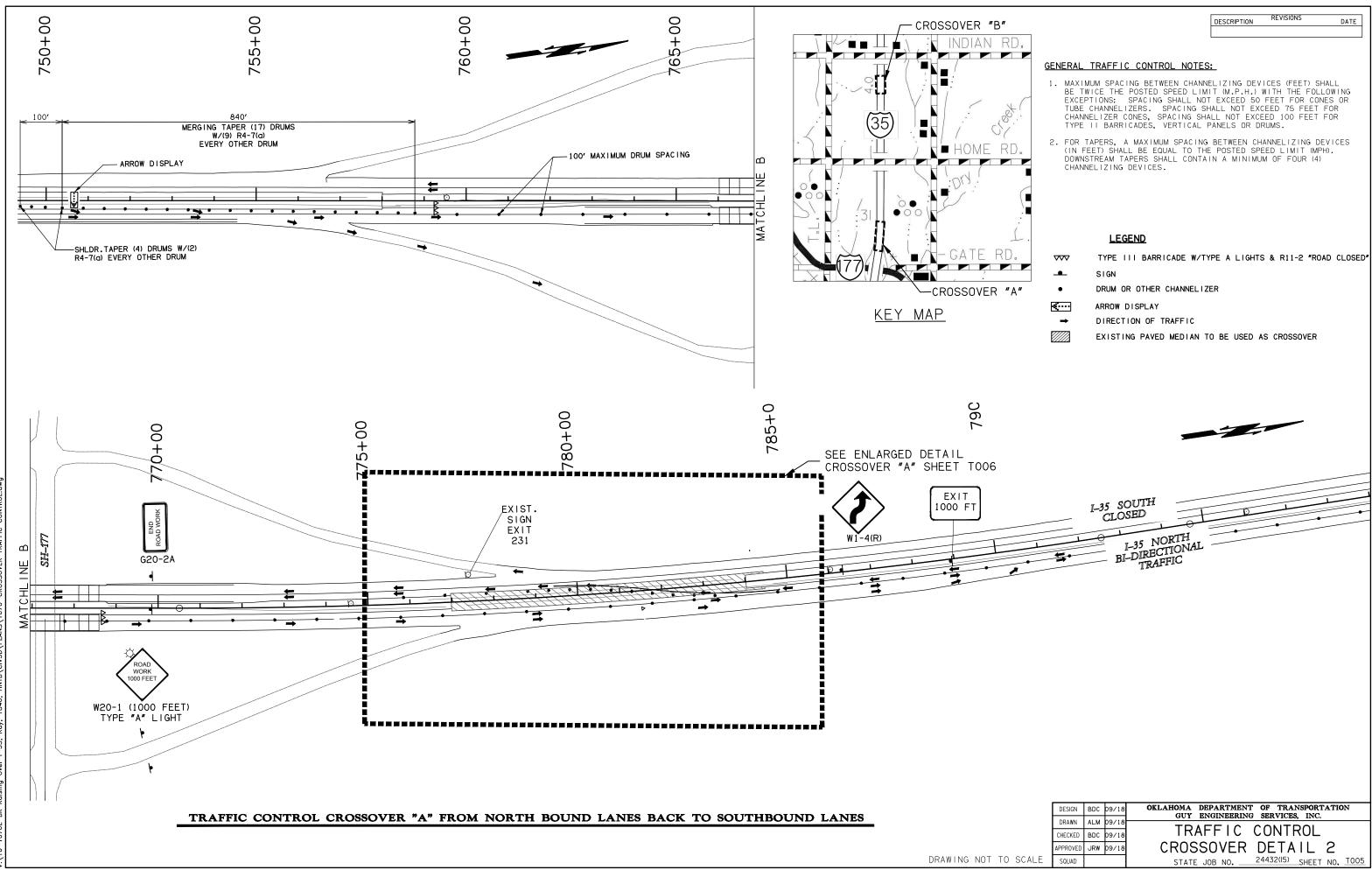


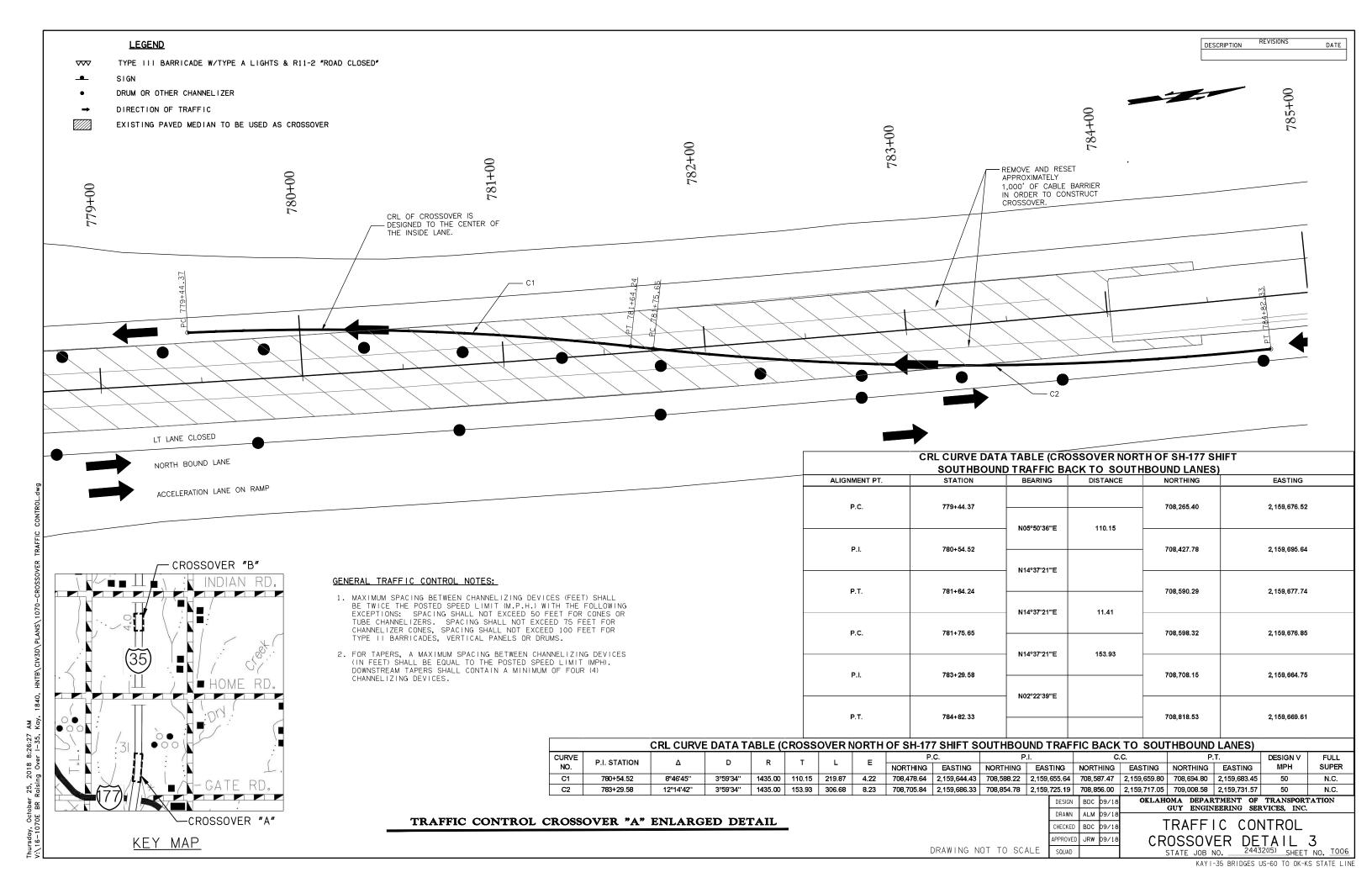
KAYI-35 BRIDGES US-60 TO OK-KS STATE LINE

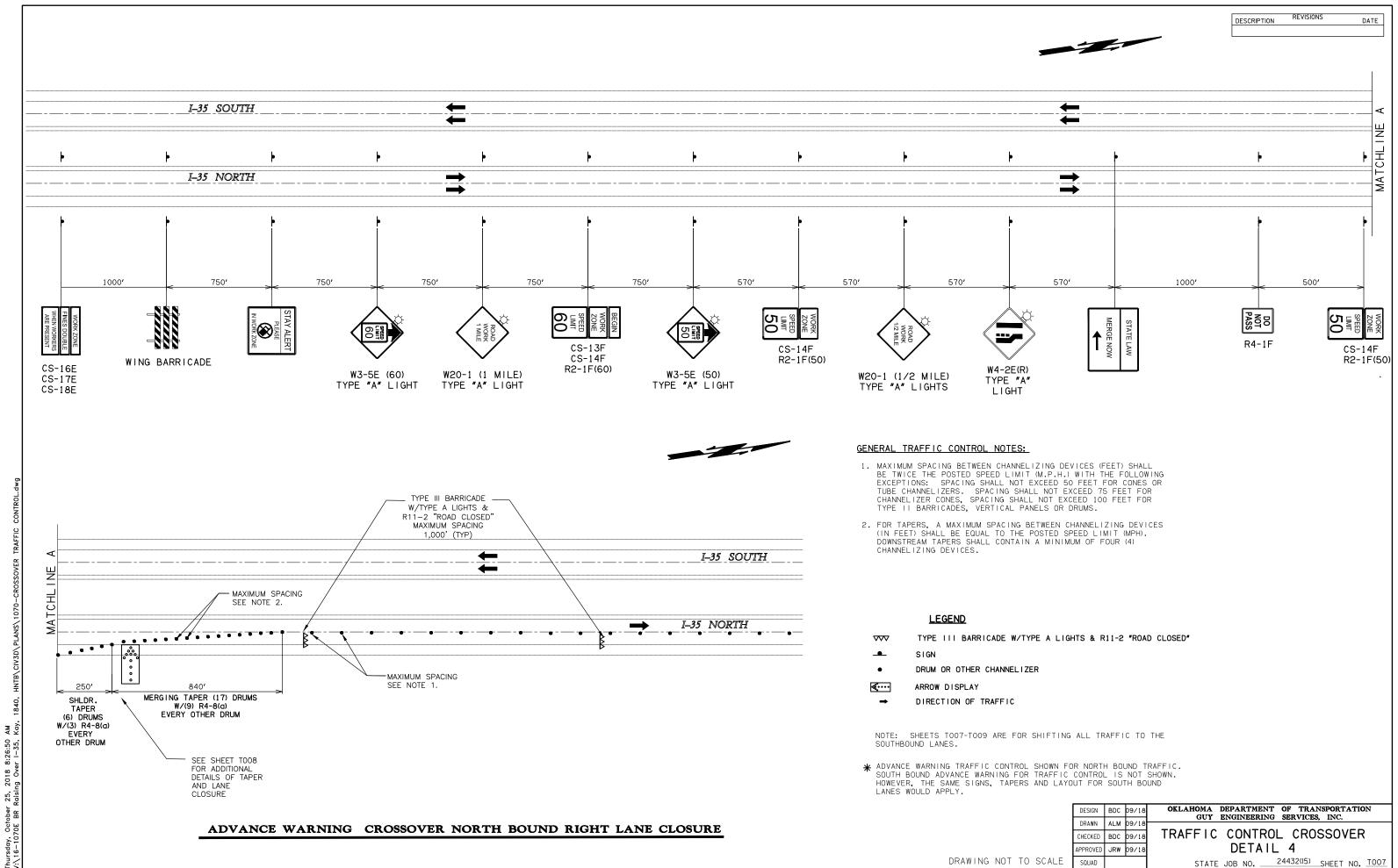




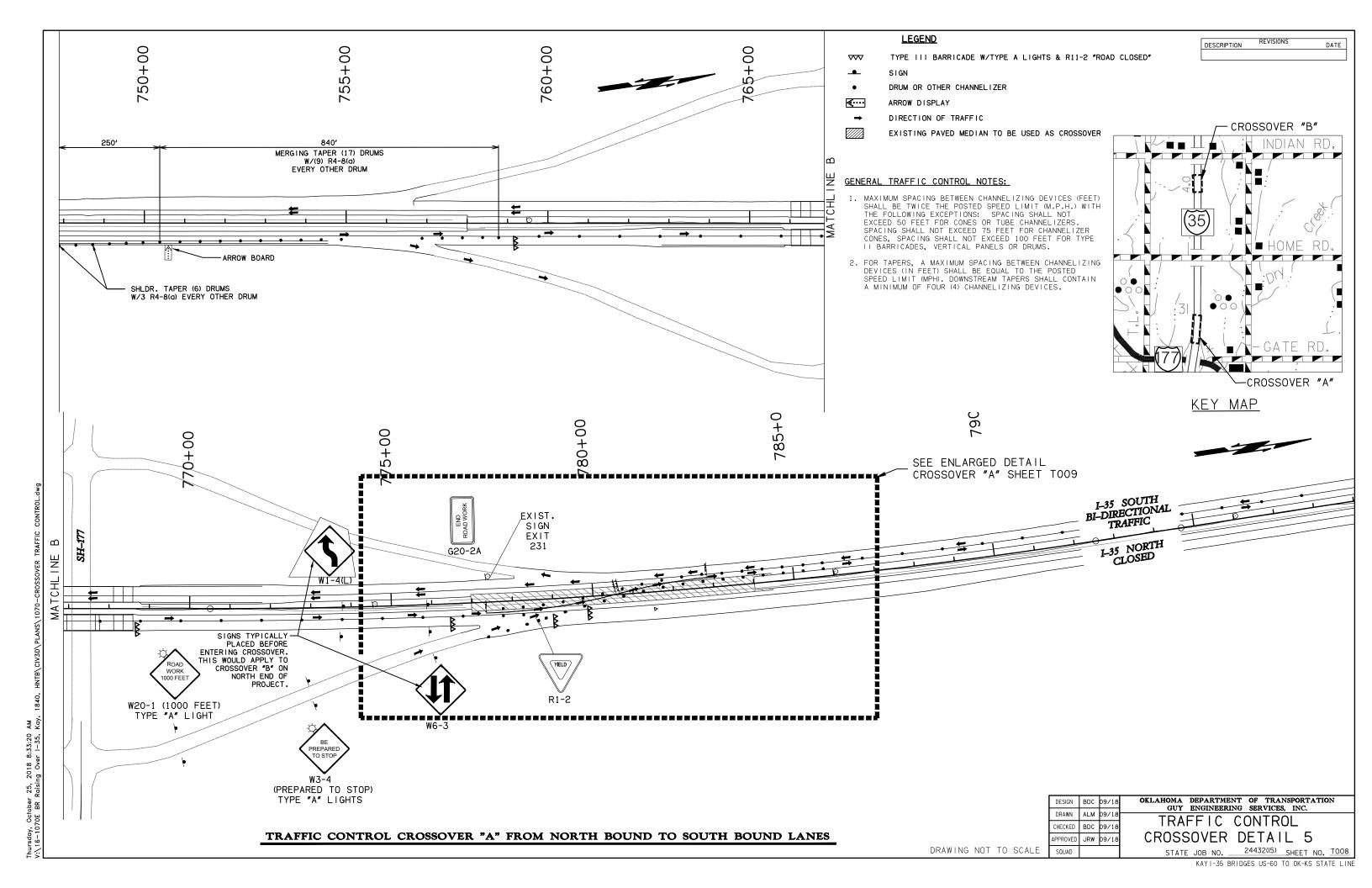


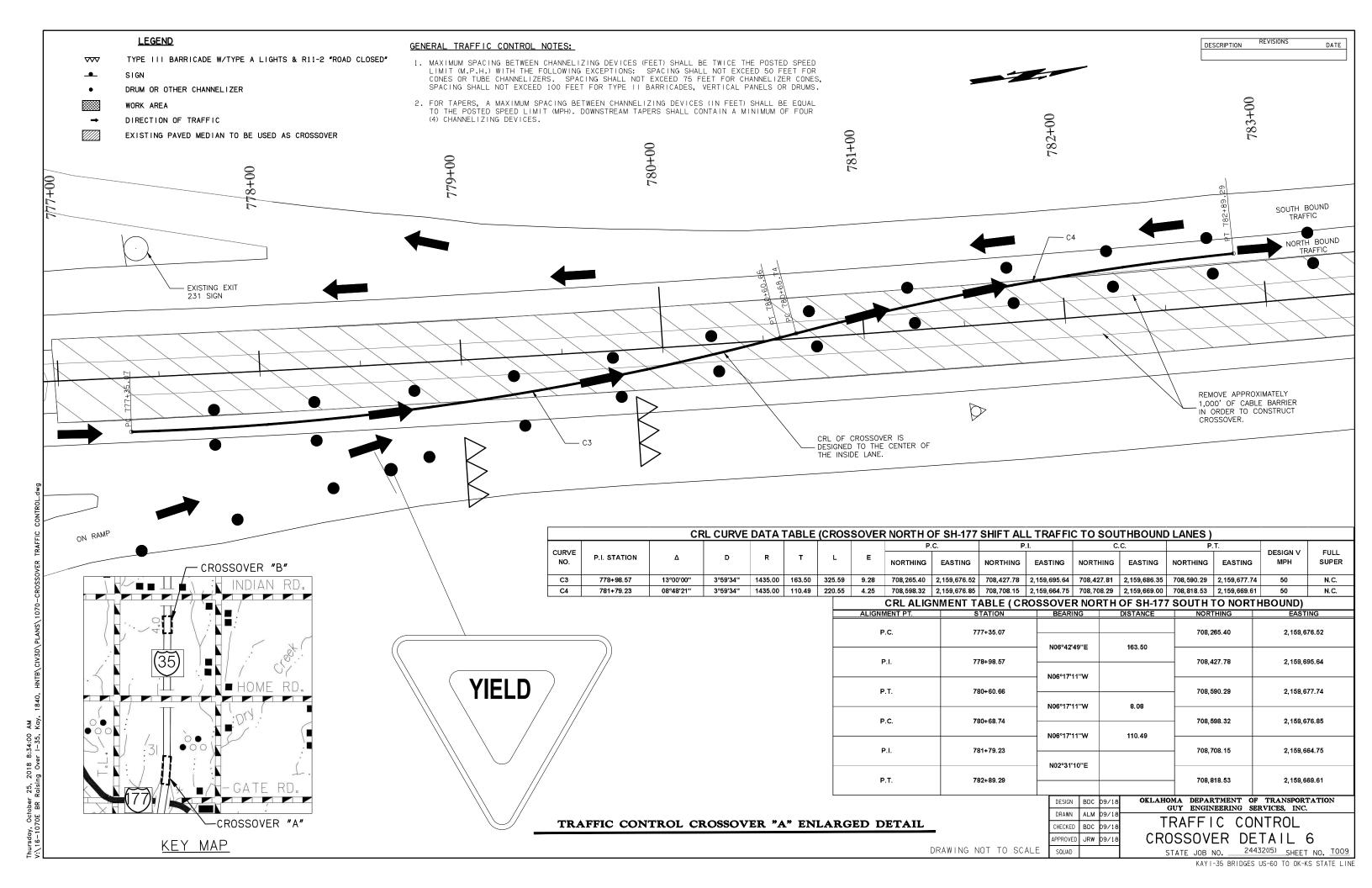


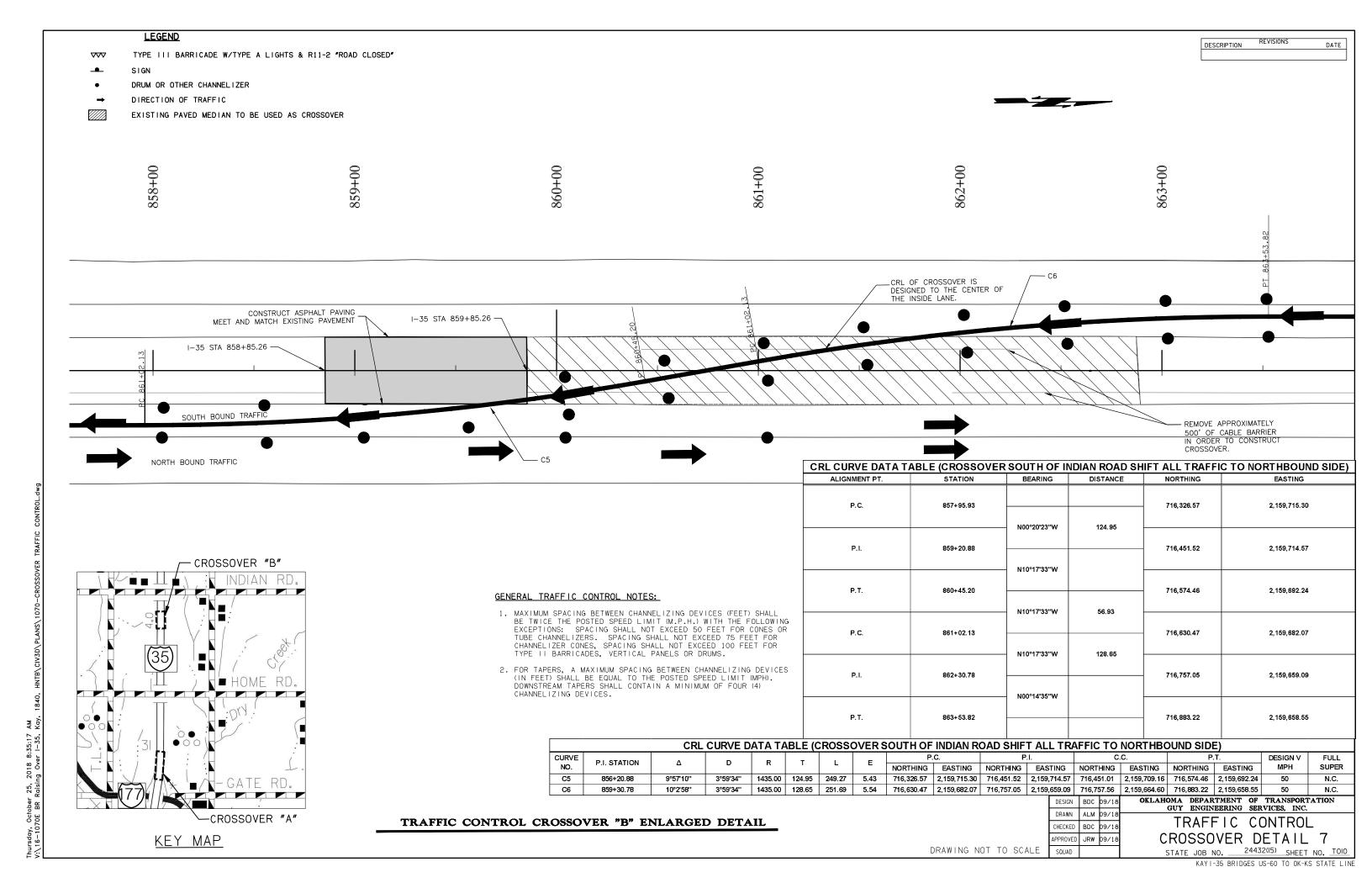


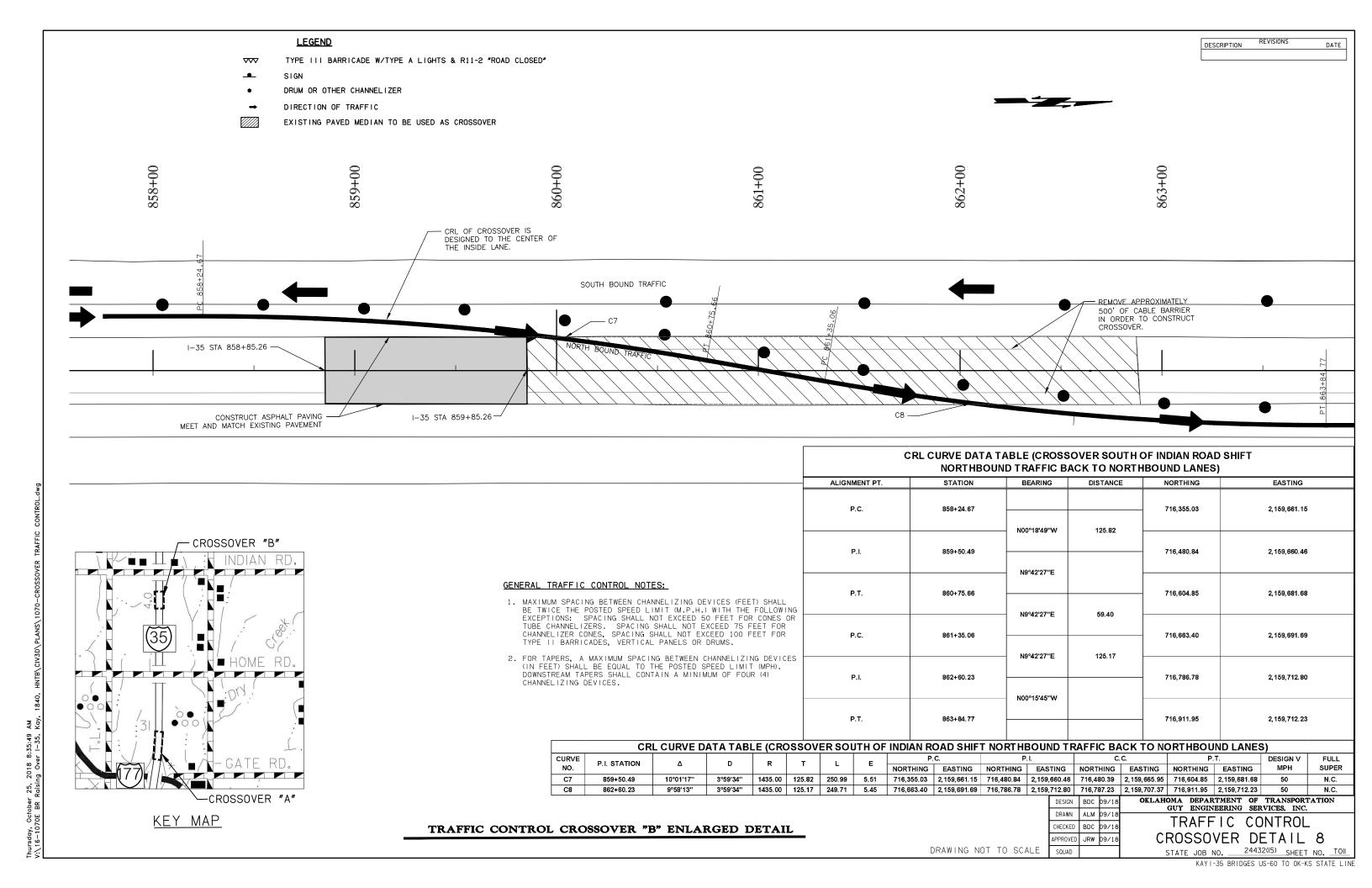


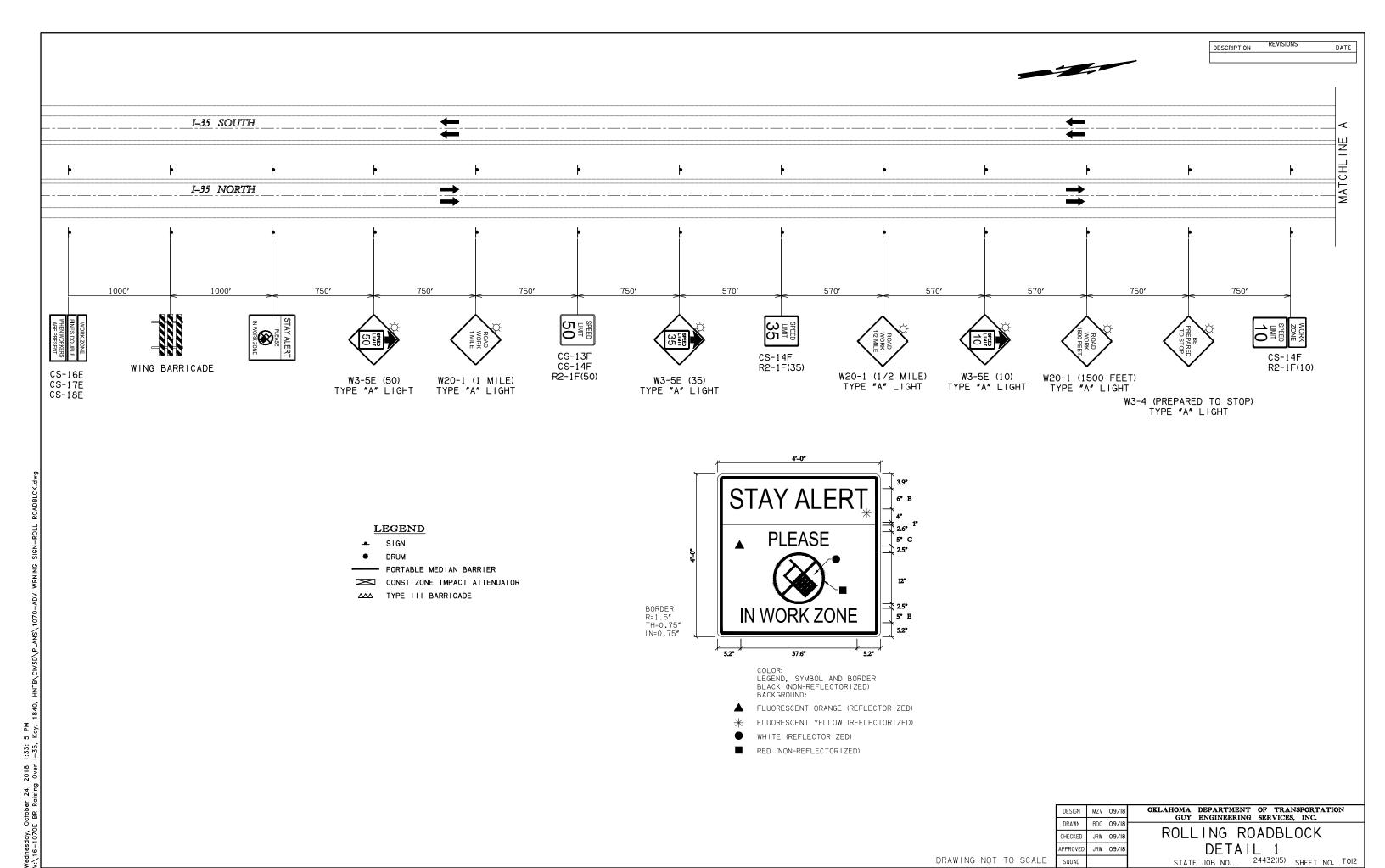
KAYI-35 BRIDGES US-60 TO OK-KS STATE LINE





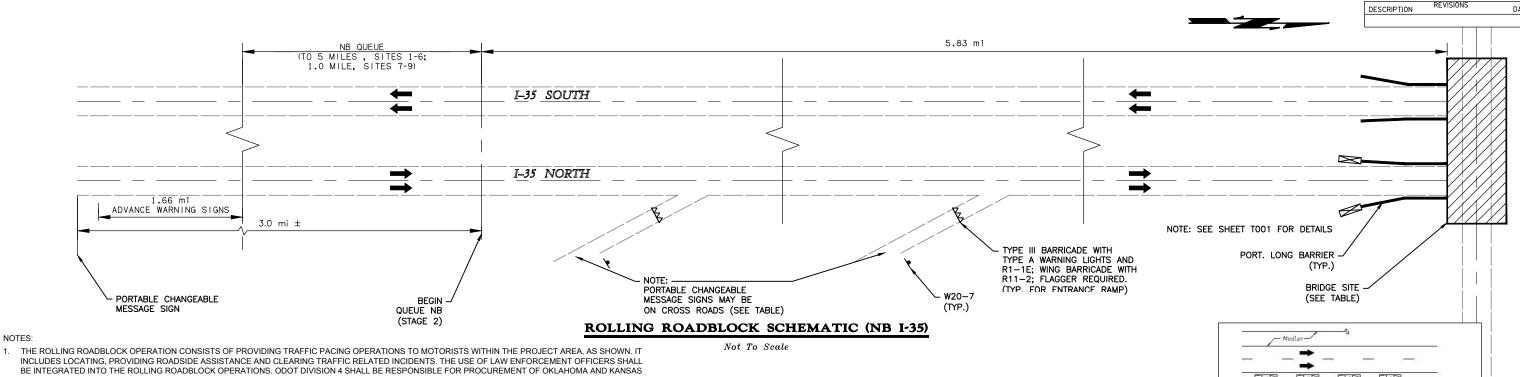






STATE JOB NO. 24432(I5) SHEET NO. TOI2 KAYI-35 BRIDGES US-60 TO OK-KS STATE LINE

DRAWING NOT TO SCALE



- INCLUDES LOCATING, PROVIDING ROADSIDE ASSISTANCE AND CLEARING TRAFFIC RELATED INCIDENTS. THE USE OF LAW ENFORCEMENT OFFICERS SHALL BE INTEGRATED INTO THE ROLLING ROADBLOCK OPERATIONS. ODOT DIVISION 4 SHALL BE RESPONSIBLE FOR PROCUREMENT OF OKLAHOMA AND KANSAS
- ROADBLOCK. THE PLAN SHALL INCLUDE A PACING PLAN. THE PACING PLAN SHALL INCLUDE A SUMMARY THE CONTRACTOR'S EQUIPMENT, PERSONNEL. INCLUDING LAW ENFORCEMENT PERSONNEL, AND A DETAILED DESCRIPTION OF THE OPERATION. A CONTINGENCY PLAN SHALL BE INCLUDED TO ACCOUNT FOR BREAKDOWN OF THE CONTRACTOR'S CRITICAL EQUIPMENT AND TO ADDRESS EMERGENCIES THAT REQUIRE EXITING THE QUEUE. IF THERE ARE CERTAIN WORK ACTIVITIES THAT NEED TO BE COMPLETED PRIOR TO START OF WORK, THE ACTIVITIES SHOULD BE CLEARLY DETAILED IN A CHECKLIST THAT IS USED TO ENSURE THAT ALL PREPARATIONS HAVE BEEN MADE PRIOR TO INITIATING THE ROLLING ROADBLOCK.
- THE ROADBLOCK OPERATION FOR A GIVEN LOCATION SHALL BE CONDUCTED BETWEEN THE HOURS OF 8:00 PM AND 6:00 AM. MONDAY EVENING THROUGH FRIDAY MORNING. IF NECESSARY, ROLLING ROADBLOCKS MAY BE REQUIRED ON WEEKENDS; LANE RENTAL FEES MAY BE INCURRED FOR DAYLIGHT OPERATIONS. ROLLING ROADBLOCKS WILL BE INITIATED SIMULTANEOUSLY IN BOTH DIRECTIONS FOR RAISING OF THE BRIDGE. THE BRIDGE WILL BE RAISED
- A PLANNING MEETING WITH ALL ROLLING ROADBLOCK PARTICIPANTS SHALL BE HELD TWO TO THREE WEEKS IN ADVANCE OF THE FIRST EVENT TO DEFINE RESPONSIBILITIES AND TO ENSURE THAT THOSE ACTIVITIES REQUIRED FOR ACCOMPLISHING THE TASK WILL BE IN PLACE FOR THE ROADBLOCK.
  PERSONNEL SHALL INCLUDE AS A MINIMUM, A.) THE LEAD COORDINATOR, WHO IS STATIONED AT THE WORK AREA AND COMMUNICATES WITH THE PACE CARS, B.) AN INDIVIDUAL OR INDIVIDUALS TO COMMUNICATE WITH THE LEAD COORDINATOR CONCERNING WORK STATUS, C.) SELECTED CONSTRUCTION PERSONNEL, AND D.) LAW ENFORCEMENT OFFICERS. FOUR OFFICERS ARE REQUIRED FOR EACH ROLLING ROADBLOCK (FOR EACH DIRECTION). THE PURPOSE OF THE MEETING IS TO IDENTIFY THE LEAD COORDINATOR, SET POINTS OF CONTACTS, TO SET LINES COMMUNICATION, AND TO REVIEW ROLES AND RESPONSIBILITIES. ADDITIONAL MEETINGS WILL BE HELD IF THERE ARE PERSONNEL CHANGES, OR AS NECESSARY. PLANNING MEETINGS WILL BE HELD
- A FINAL MEETING INVOLVING PARTICIPANTS SHALL BE HELD AT THE BRIDGE SITE TO REVIEW PROCEDURES AND TO ENSURE THAT ALL PRELIMINARY REQUIREMENTS FOR THE ROLLING ROADBLOCK HAVE BEEN IMPLEMENTED.
- THE CONTRACTOR SHALL SIGN OFF ON THE PRE ROLLING ROADBLOCK CHECKLIST TO CONFIRM THAT EVERYTHING HAS BEEN COMPLETED FOR EACH LIFT. ON-RAMPS AND ENTRANCES BETWEEN THE BEGINNING POINT OF THE PACING AREA AND THE WORK AREA SHALL BE BLOCKED USING FLAGGERS AND TRAFFIC CONTROL DEVICES UNTIL THE PACE SETTING VEHICLES HAVE PASSED. THE CONTRACTOR SHALL PROVIDE TWO-WAY RADIOS THAT SHALL BE
- A MINIMUM OF THREE WEEKS PRIOR TO THE START OF ROLLING ROADBLOCK OPERATIONS FOR A GIVEN LOCATION, THE CONTRACTOR SHALL PROVIDE THE DATE AND TIMES THAT ROLLING ROADBLOCK OPERATIONS ARE TO BEGIN TO THE ENGINEER, ODOT DISTRICT 4 TRAFFIC ENGINEER, ODOT PUBLIC
- PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE DISPLAYED ONE WEEK PRIOR TO THE START OF A ROLLING ROADBLOCK. MESSAGES SHALL BE CHANGED TO INDICATE WHEN THE ROLLING ROADBLOCK OPERATIONS ARE IN EFFECT. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE IN
- 11. ALL DETAILS SHOWN ON SHEET T001 APPLY, AS LONG AS SHOULDERS ARE CLOSED AT THE BRIDGE AND THE ROLLING ROADBLOCK IS NOT IN OPERATION. T001 SIGNS ARE COVERED WHEN THE ROLLING ROADBLOCK IS NOT IN
- 12. AS SHOWN, THE ROLLING ROADBLOCK IS BASED ON 30 MINUTES PER PHASE OF BRIDGE RAISING. MULTIPLE PHASES MAY BE REQUIRED

PAYMENT FOR CONSTRUCTION SIGNING WILL BE MEASURED AND PAID FOR UNDER THE APPROPRIATE CONSTRUCTION SIGNING

CHANGEABLE MESSAGE SIGNS AS REQUIRED WILL BE MEASURED AND PAID FOR IN ACCORDANCE WITH SECTION 882.06, CHANGEABLE MESSAGE SIGN.

PAYMENT FOR TEMPORARY CONCRETE BARRIER WALLS, IF REQUIRED, WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK

Site	Location	Туре	Ramp(s) Upstream	Approx.Dist. From Site (mi)	Type III Barricades (SD)	Wing Barricades (ramps) (SD)	Flagger (SD)	Port. Change. Messge Signs (Crossroad) (SD)
1-NB	North	P-1-1-	E0250	1.8	1	1	1	
T-IVD	North	Raising	Local Road	5.4	1	1	1	
1-SB	North	Pairing	US 60	0.8	1	1	1	14
1-36	NOTH	Raising	Hubbard Road	4.8	1	1	1	14
2-NB	Highland	Raising	US 60	0.9	1	1	1	14
2-110	mgmanu	Maising	E0250	3.0	1	1	1	14
2-SB	Highland	Raising	Hubbard Road	2.8	1	1	1	
2 30	riigiiialia	Marsing	Trabbara Road	2.0		-		
3-NB	Hartford	Raising	US 60	1.9	1	1	1	14
3 110	narciora	Marshig	E0250	4.0	1	1	1	14
3-SB	Hartford	Raising	Hubbard Road	1.8	1	1	1	
						_		
4-NB	Coleman	Raising	Hubbard Road	1.0	1	1	1	
			US 60	5.0	1	1	1	14
4-SB	Coleman	Raising	SH 11	2.8	1	1	1	14
5-NB	Chrysler	Raising	Hubbard Road	1.9	1	1	1	
		_	US 60	5.8	1	1	1	14
5-SB	Chrysler	Raising	SH 11	1.7	1	1	1	14
6-NB	Ferguson	Raising	Hubbard Road	3.0	1	1	1	
6-SB	Fergus on .	Raising	SH 11	0.8	1	1	1	14
7-NB	Adobe	Raising	SH 11	1.0	1	1	1	14
			Hubbard Road	4.9	1	1	1	
7-SB	Adobe	Raising	(None)					
8-NB	Home	Demo	US 177	1.0	1	1	1	14
			County Road	1.9	1	1	1	
8-SB	Home	Demo	Weigh Station	1.7	1	1	1	
9-NB	Indian	Raising	US 177	1.9	1	1	1	14
			County Road	2.8	1	1	1	
9-SB	Indian	Raising	Weigh Station	0.6	1	1	1	
		1	1					

SUMMARY: TRAFFIC CONTROL DEVICES

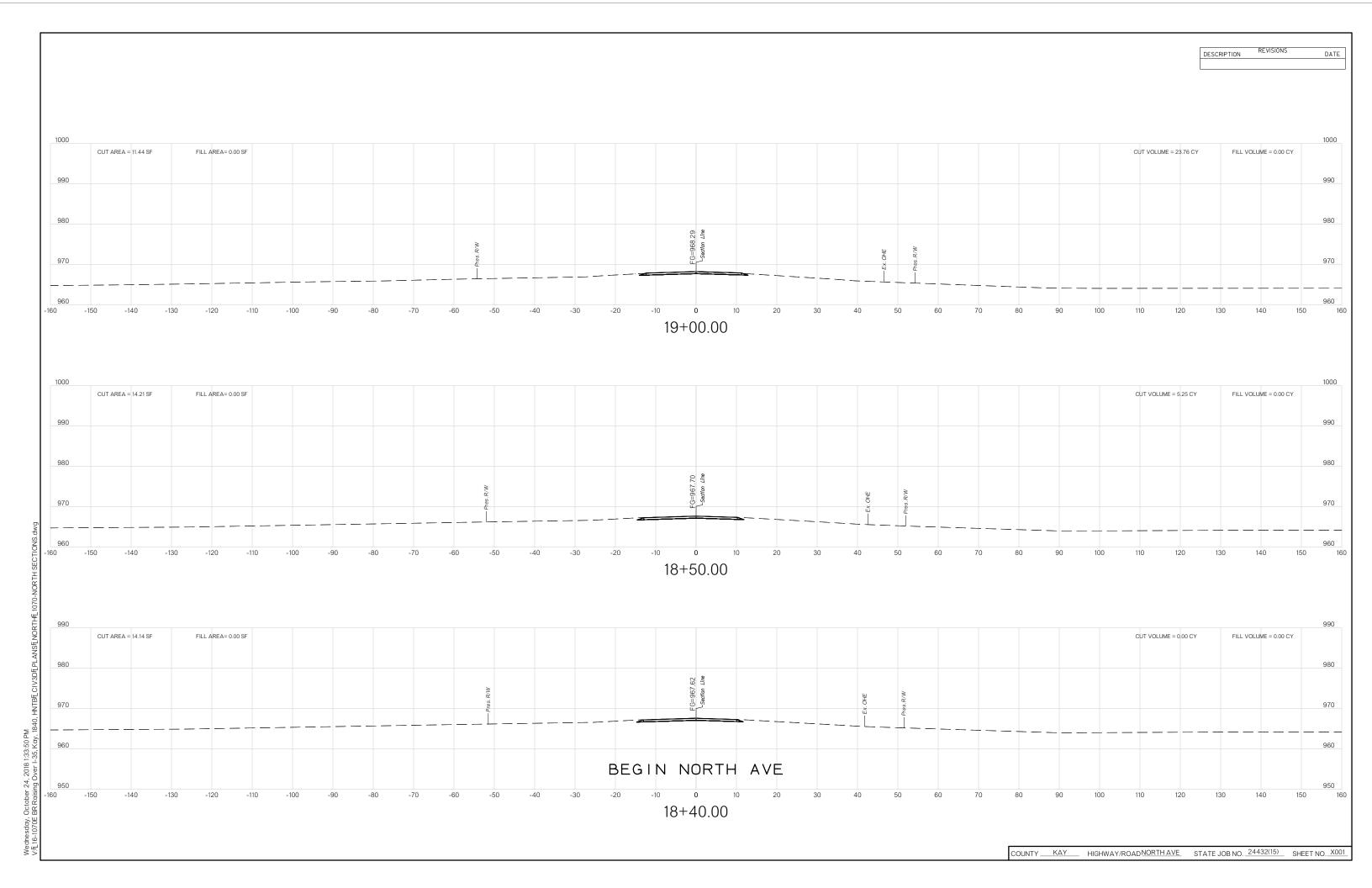
Police Vehicle Located On Shoulder At Beginning of Pacing Operation	Pace Setting Palice Vehicles	Lead Police Vehicle
Police Vehicle Located On Shoulder At Beginning Of Pacing Operation	Pace Setting Police Vehicles	Lead Police Vehicle (Flashing Blue Lights Off) At The End Of Regular Traffic
Police Vehicle Located On Shoulder At Beginning Of Pacing Operation	Pace Setting Police Vehicles	Lead Police Ve Located Appro Before Work A On Shoulder
Police Vehicle Located on Shoulder At Beginning Of Pacing Operation	Lead Police Vehic Located Approx. Setore Work Area On Shoulder	00' Police Vehicles

OLLING ROADBLOCK OPERATIONS (EXAMPLE) TE: OPERATIONS PLAN TO BE DETERMINED BY HIGHWAY PATROL.

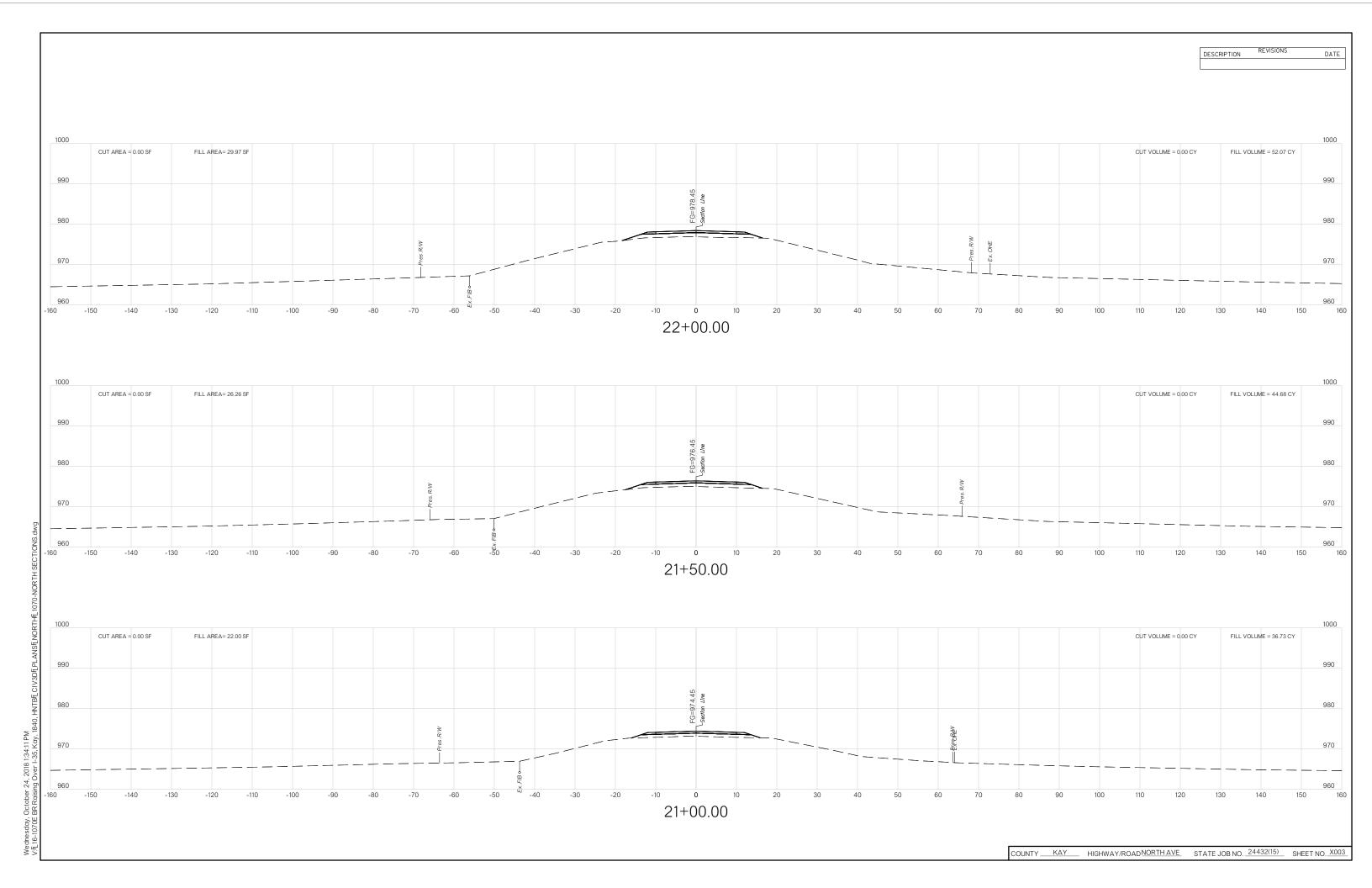
DRAWING NOT TO SCALE

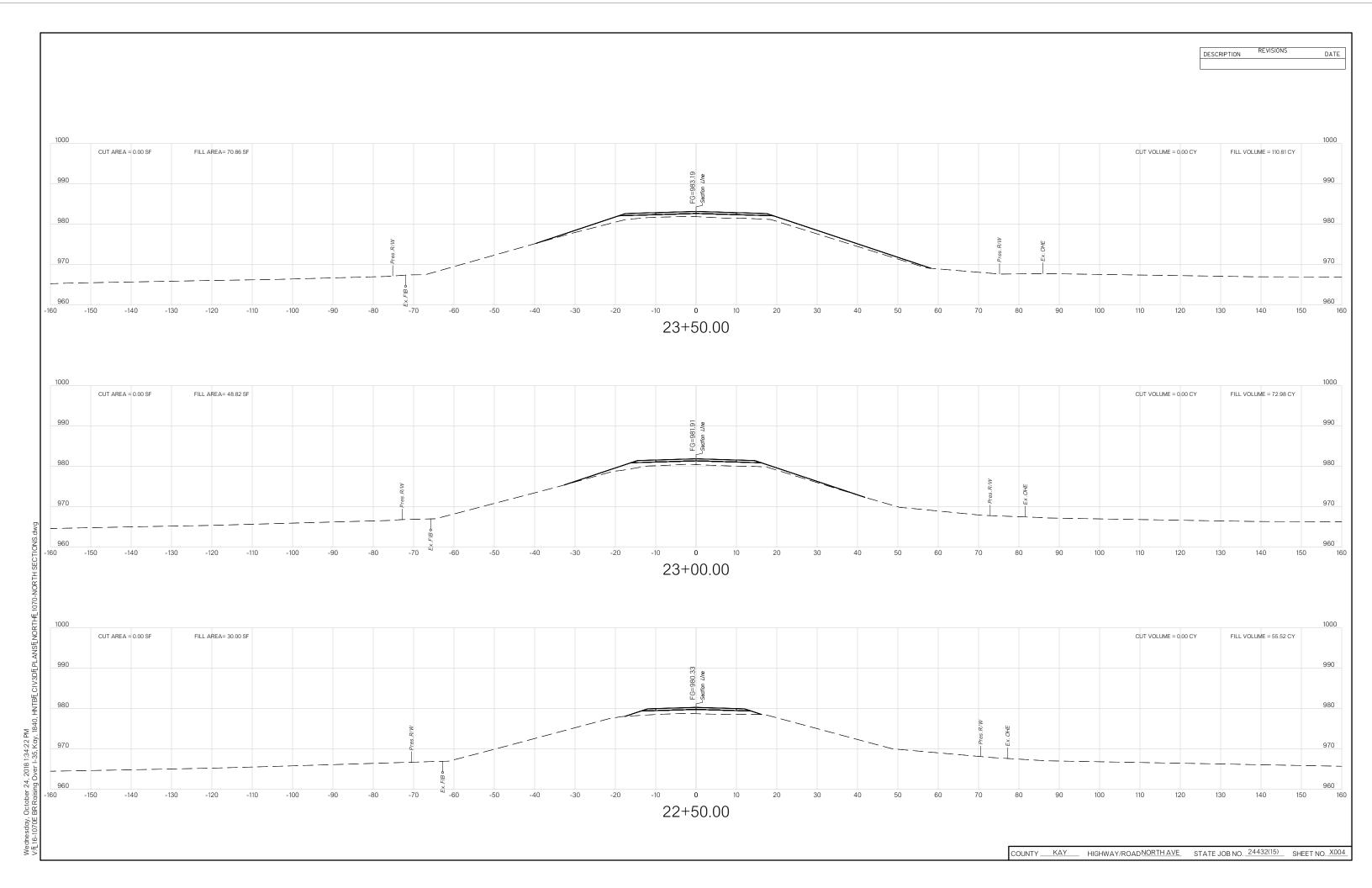
OKLAHOMA DEPARTMENT OF TRANSPORTATION GUY ENGINEERING SERVICES, INC. DESIGN MZV 09/18 DRAWN DGD ROLLING ROADBLOCK CHECKED JRW 09/18 DETAIL 2 APPROVED JRW 09/18 STATE JOB NO. 24432(I5) SHEET NO. TOI3 SQUAD

KAYI-35 BRIDGES US-60 TO OK-KS STATE LINE

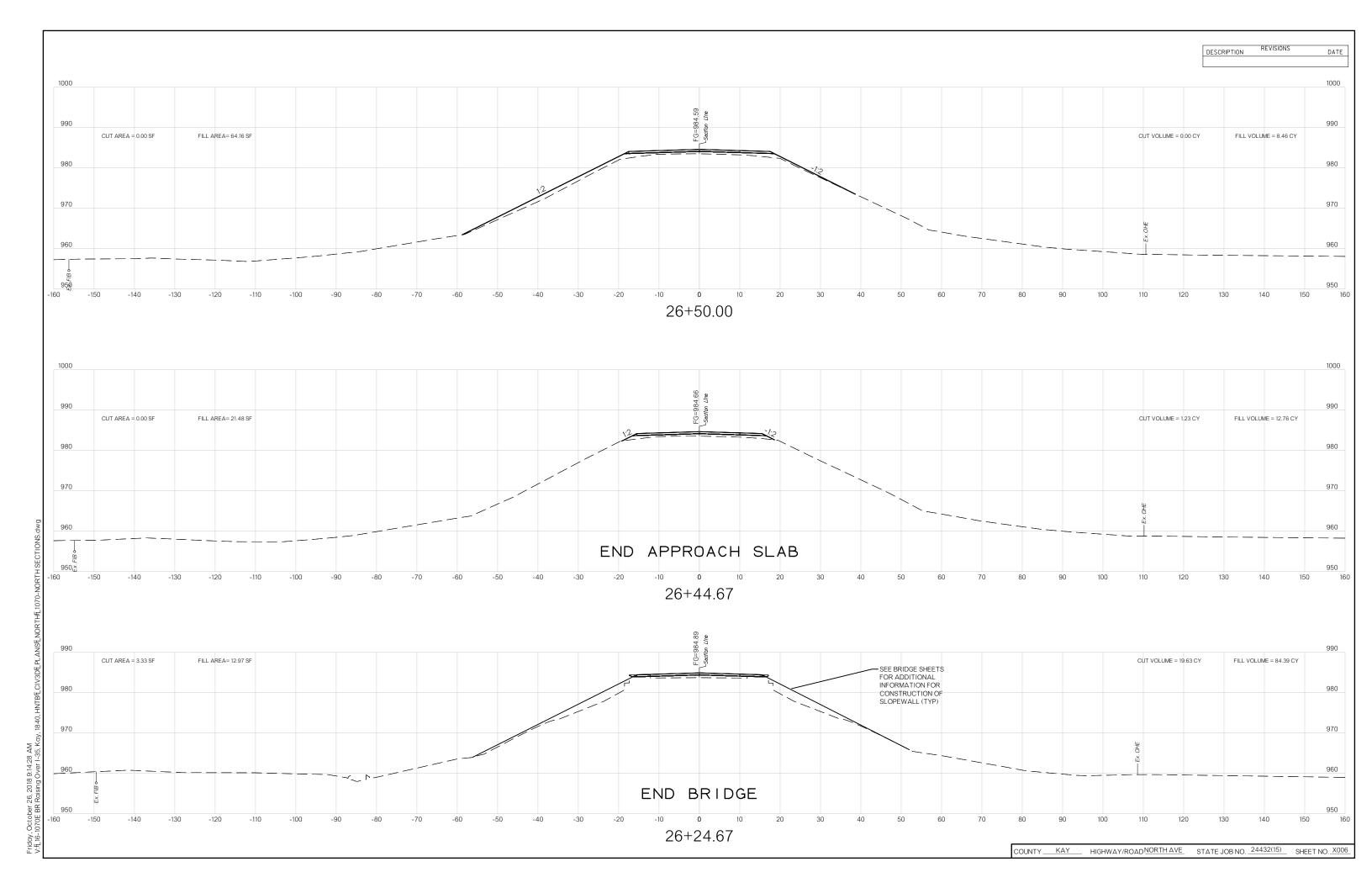


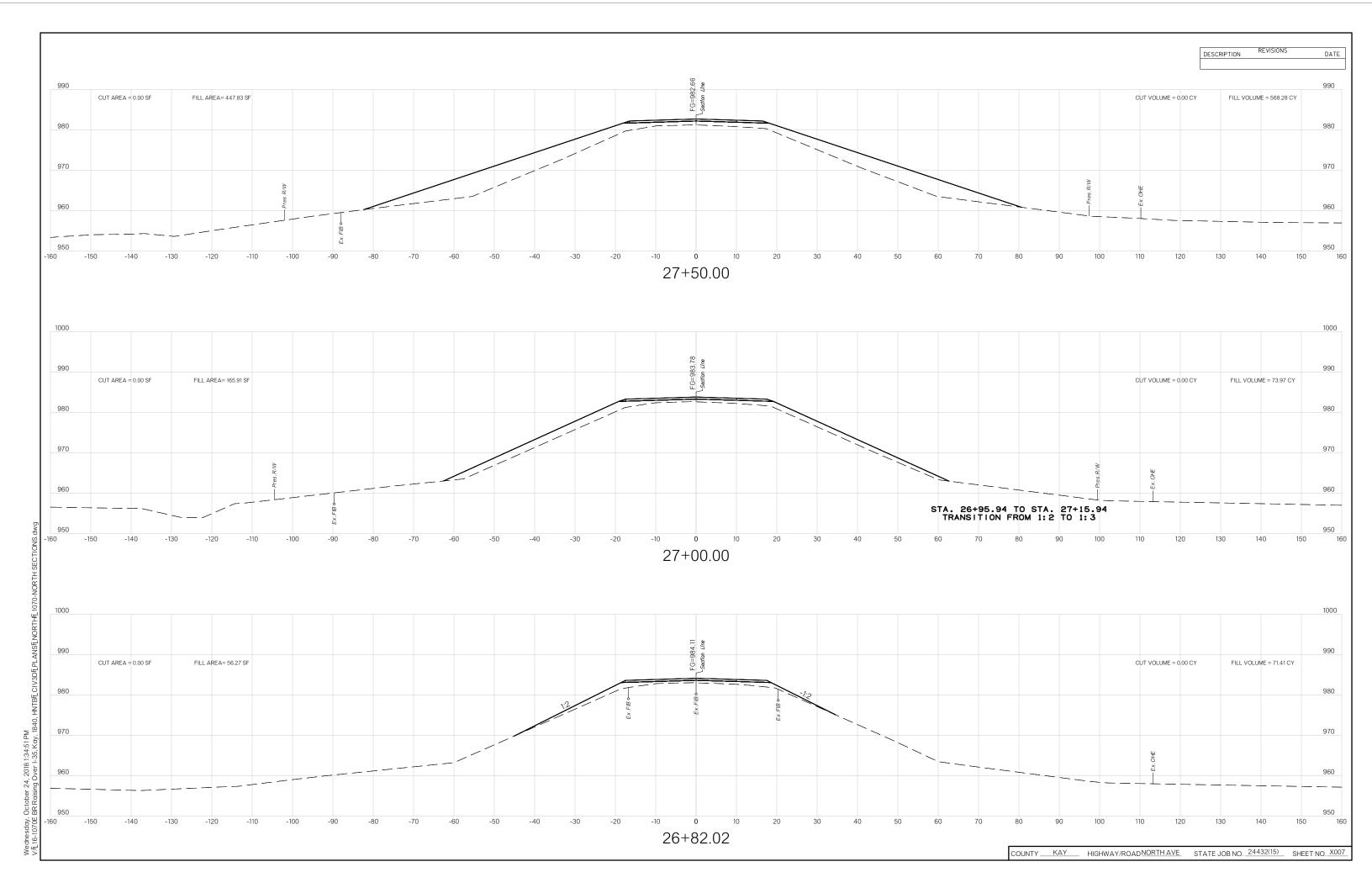
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DESCRIPTION DATE 1000 1000 CUT AREA = 2.85 SF FILL AREA= 13.60 SF CUT VOLUME = 1.05 CY FILL VOLUME = 13.59 CY SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) 990 990 980 980 970 970 BEGIN BRIDGE 24+53.17 1000 FILL AREA= 23.10 SF CUT AREA = 0.00 SF CUT VOLUME = 0.00 CY FILL VOLUME = 38.28 CY 990 990 980 980 970 BEGIN APPROACH SLAB 960 24+33.17 1000 CUT AREA = 0.00 SF FILL AREA= 39.23 SF CUT VOLUME = 0.00 CY FILL VOLUME = 101.94 CY 990 990 980 970 960 24+00.00 COUNTY KAY HIGHWAY/ROAD NORTH AVE STATE JOB NO. 24432(15) SHEET NO. X005

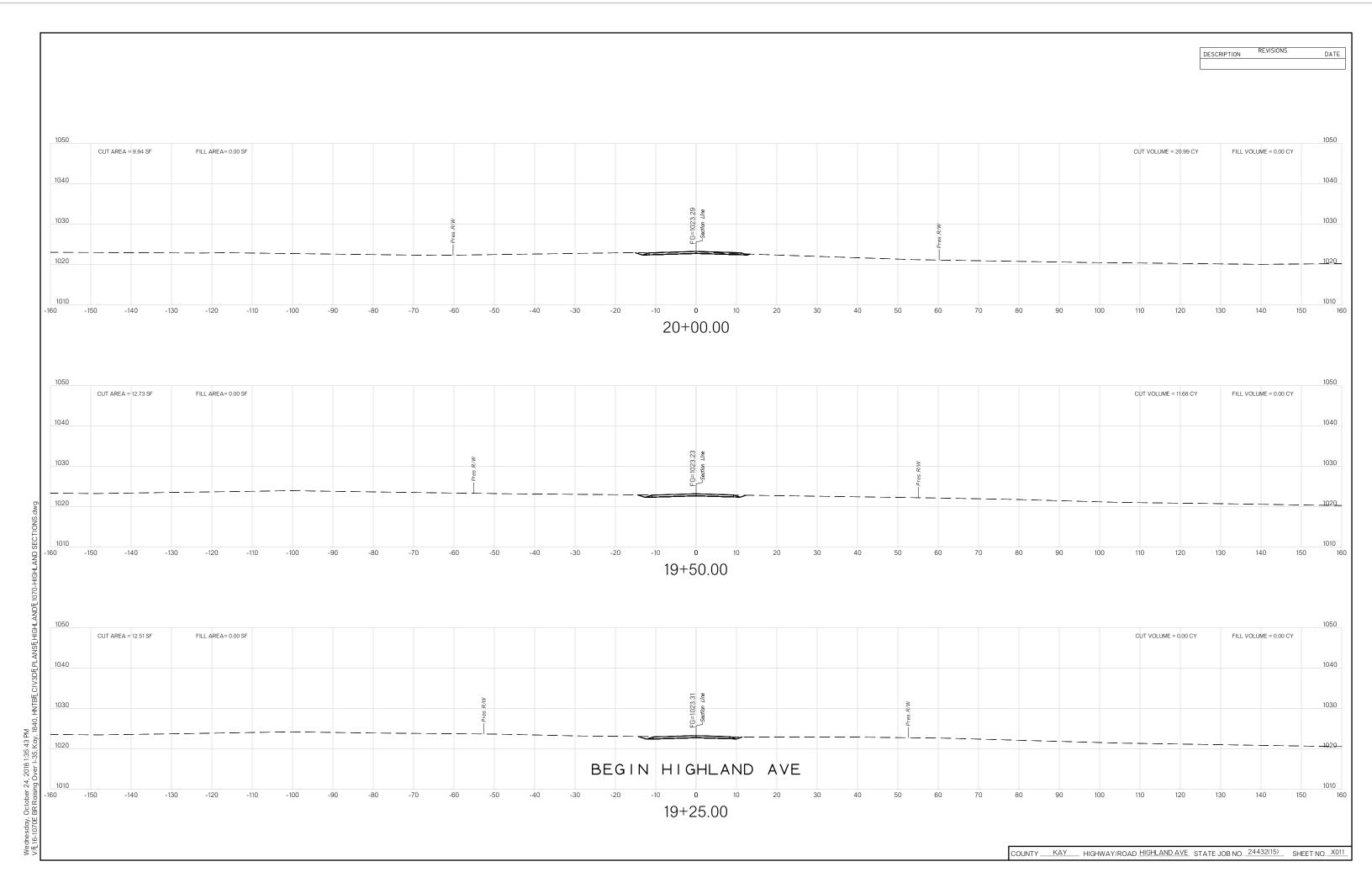


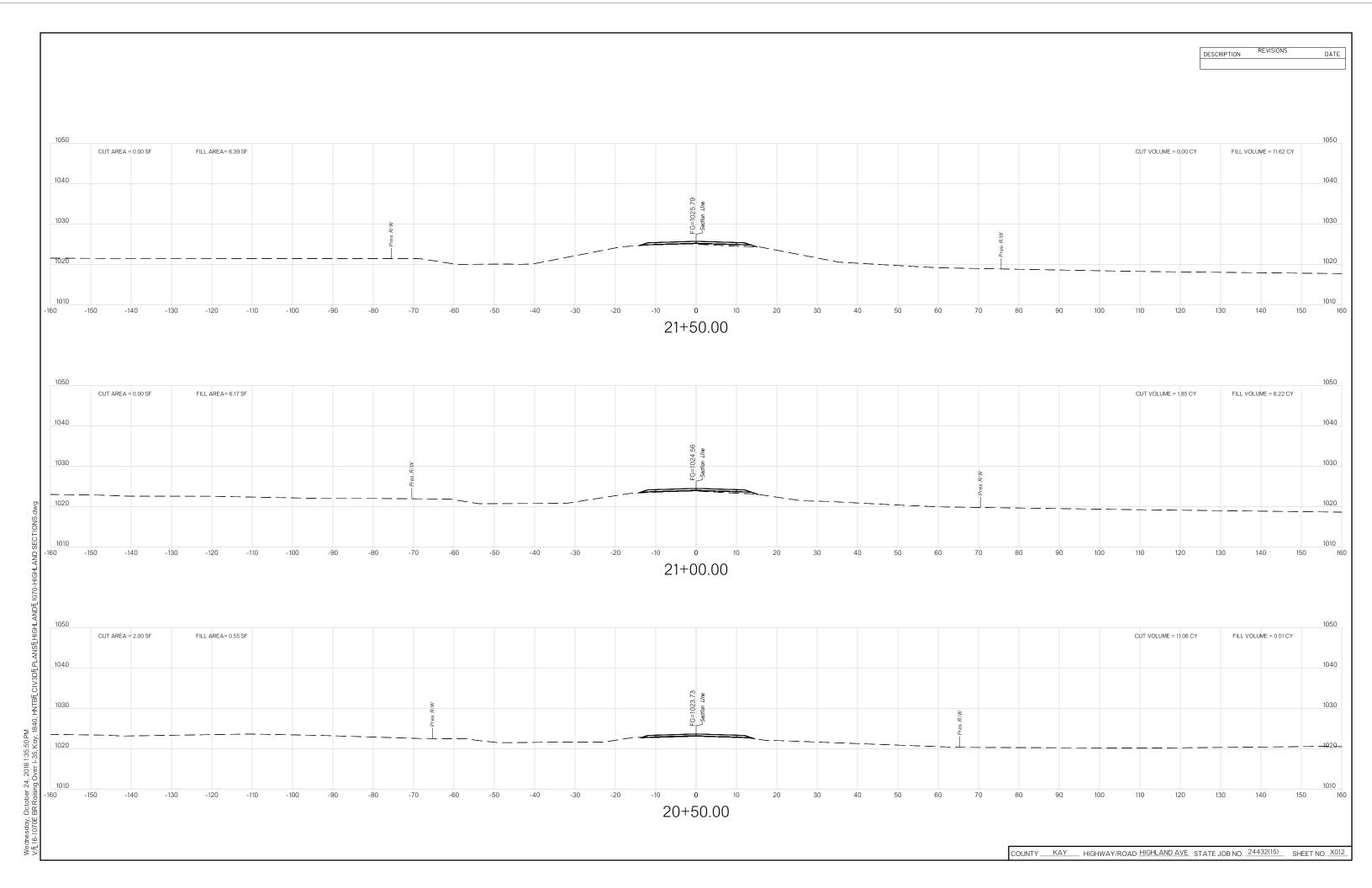


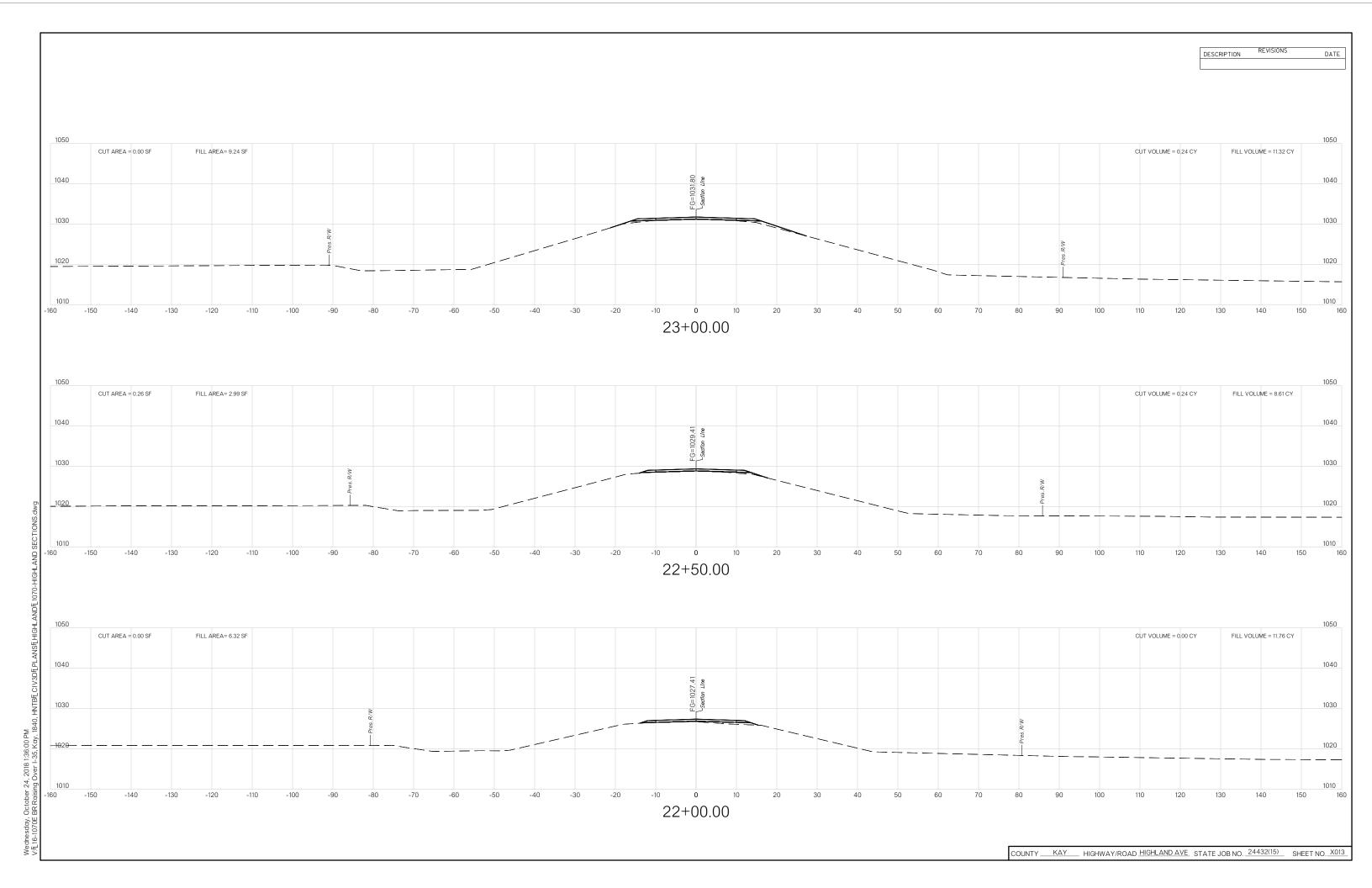
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DESCRIPTION FILL VOLUME = 0.71 CY CUT VOLUME = 14.46 CY CUT AREA = 12.41 SF FILL AREA= 0.00 SF 970 970 960 30+50.00 FILL AREA= 0.76 SF CUT VOLUME = 2.97 CY FILL VOLUME = 12.17 CY CUT AREA = 3.20 SF 970 970 30+00.00 CUT AREA = 0.00 SF FILL AREA= 12.38 SF CUT VOLUME = 0.00 CY FILL VOLUME = 42.27 CY 970 29+50.00 COUNTY KAY HIGHWAY/ROAD NORTH AVE STATE JOB NO. 24432(15) SHEET NO. X009

DESCRIPTION DATE CUT AREA = 12.07 SF FILL AREA = 0.00 SF CUT VOLUME = 24.48 CY FILL VOLUME = 0.00 CY 970 970 END NORTH AVE 32+00.00 CUT AREA = 14.37 SF FILL VOLUME = 0.00 CY 970 970 960 960 31+50.00 CAUTION FIBER OPTIC CROSSING CUT AREA = 15.71 SF FILL AREA= 0.00 SF CUT VOLUME = 26.04 CY FILL VOLUME = 0.00 CY STA. 23+61.90 TO STA. 23+81.90 TRANSITION FROM 1:3 TO 1:2 980 970 960 31+00.00 COUNTY KAY HIGHWAY/ROAD NORTH AVE STATE JOB NO. 24432(15) SHEET NO. X010







DESCRIPTION DATE CUT AREA = 0.00 SF FILL AREA= 54.67 SF FILL VOLUME = 49.37 CY 1040 1030 1030 BEGIN APPROACH SLAB 24+32.80 FILL AREA= 26.60 SF FILL VOLUME = 158.86 CY CUT AREA = 0.00 SF 1040 1030 1030 1020 24+00.00 CUT AREA = 0.00 SF FILL AREA= 144.96 SF CUT VOLUME = 0.00 CY FILL VOLUME = 142.78 CY 1040 1040 1030 23+50.00 COUNTY KAY HIGHWAY/ROAD HIGHLAND AVE STATE JOB NO. 24432(15) SHEET NO. X014

DESCRIPTION DATE 1050 1050 CUT AREA = 3.94 SF FILL AREA= 8.90 SF CUT VOLUME = 24.73 CY FILL VOLUME = 51.60 CY 1040 1040 SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) 1030 1030 1020 1020 END BRIDGE 1010 26+24.30 1050 1050 CUT AREA = 3.85 SF FILL AREA = 7.35 SF CUT VOLUME = 0.22 CY FILL VOLUME = 0.92 CY 1040 1040 SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) 1030 1030 1020 1020 BEGIN BRIDGE 1010 1010 24+52.80 1050 CUT AREA = 0.34 SF CUT VOLUME = 0.11 CY FILL VOLUME = 20.73 CY 1040 1040 1030 1030 1020 1010 1010 24+50.00 COUNTY KAY HIGHWAY/ROAD HIGHLAND AVE STATE JOB NO. 24432(15) SHEET NO. X015

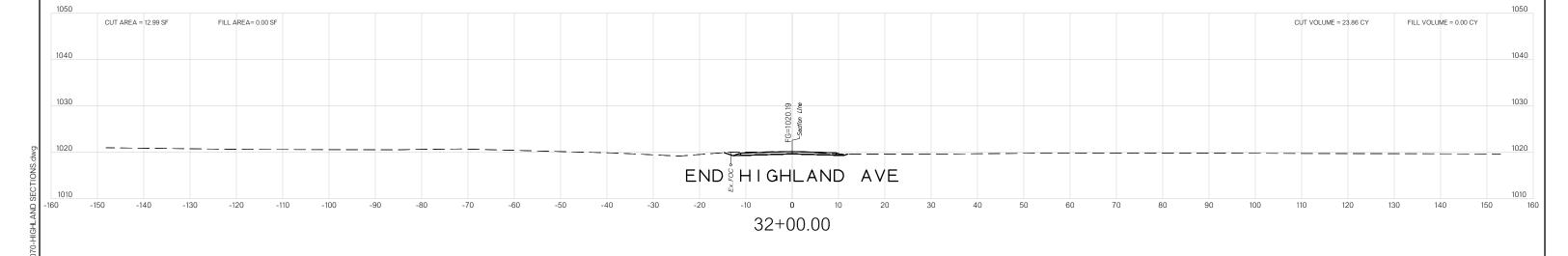
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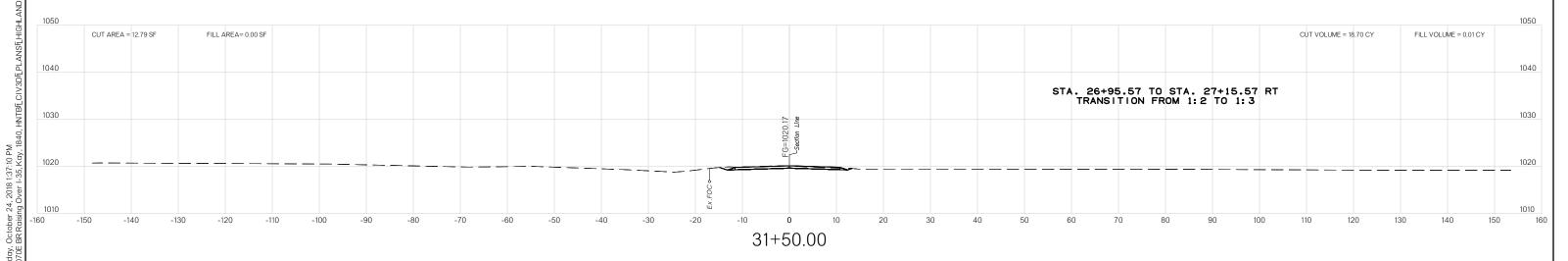
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DESCRIPTION DATE 1040 1040 CUT AREA = 0.00 SF FILL AREA= 9.92 SF CUT VOLUME = 0.00 CY FILL VOLUME = 17.40 CY 1030 1030 1020 1020 1010 1010 1000 29+50.00 1040 CUT AREA = 0.00 SF FILL AREA = 8.87 SF CUT VOLUME = 0.01 CY FILL VOLUME = 16.37 CY 1030 1030 STA. 23+61.53 TO STA. 23+81.53 TRANSITION FROM 1:3 TO 1:2 1020 1020 1010 1000 1000 29+00.00 CUT AREA = 0.01 SF FILL VOLUME = 20.48 CY 1030 1030 1020 1020 1010 1010 1000 1000 28+50.00 COUNTY KAY HIGHWAY/ROAD HIGHLAND AVE STATE JOB NO. 24432(15) SHEET NO. X018

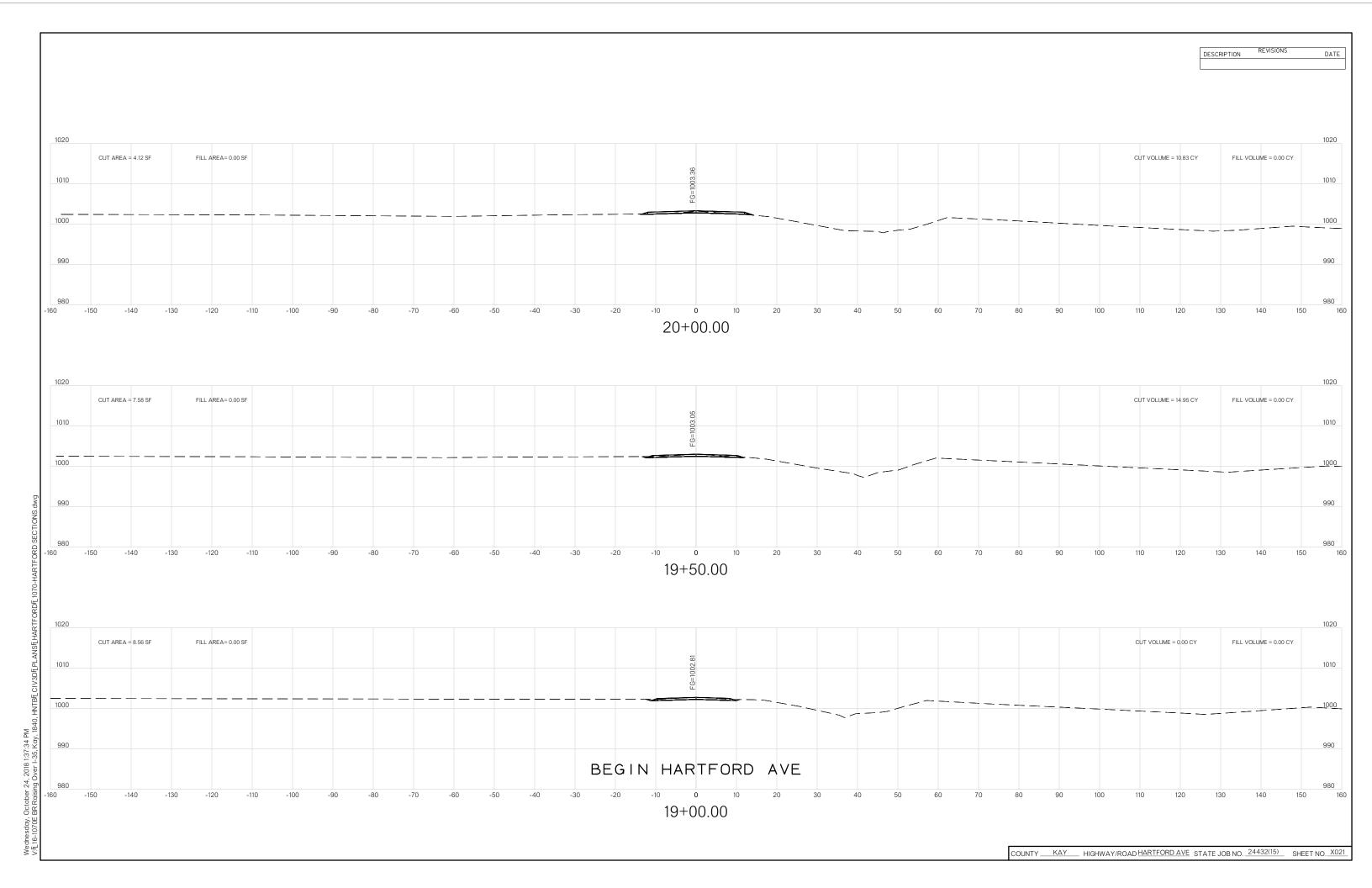
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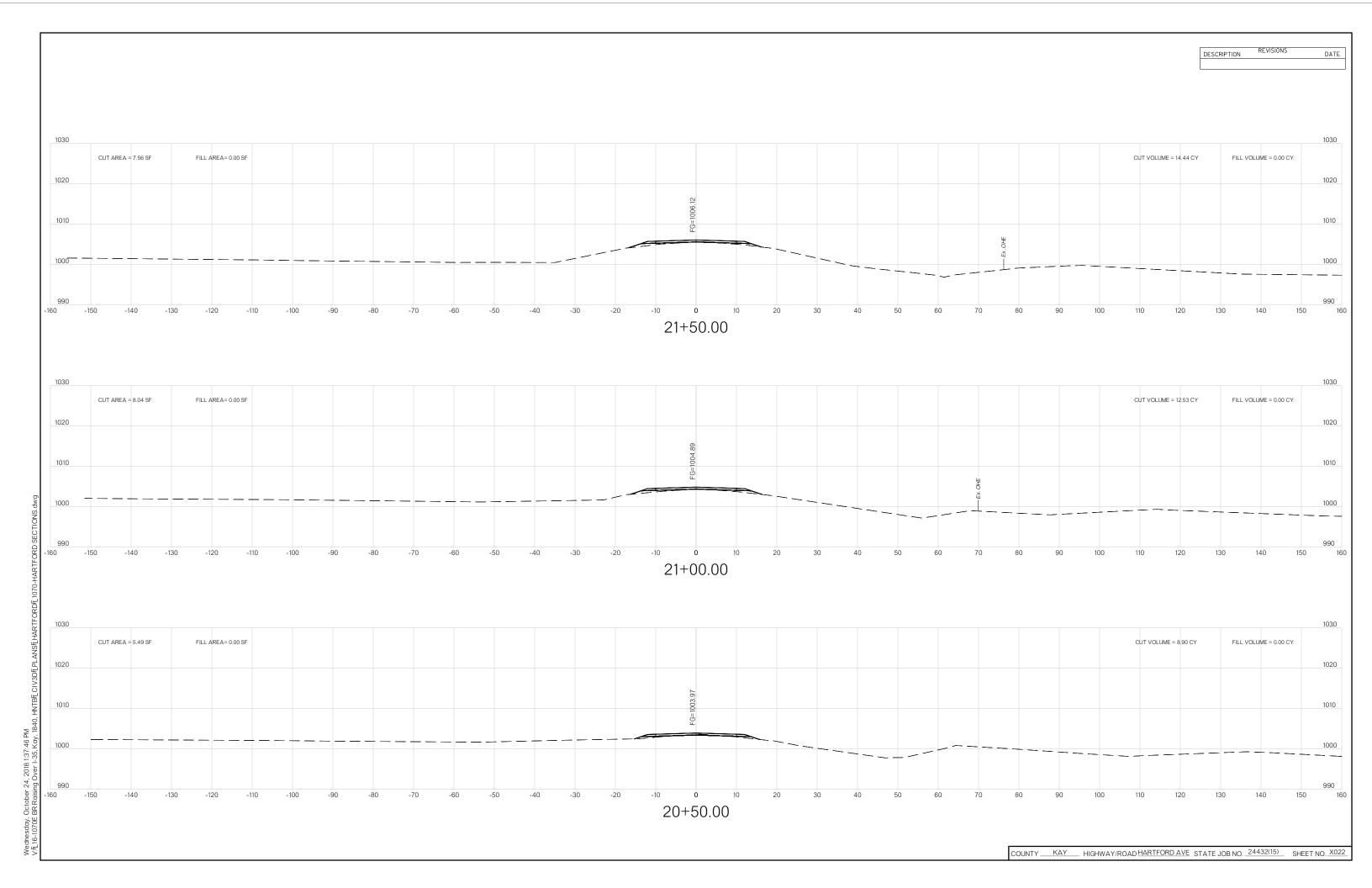
DESCRIPTION REVISIONS DATE

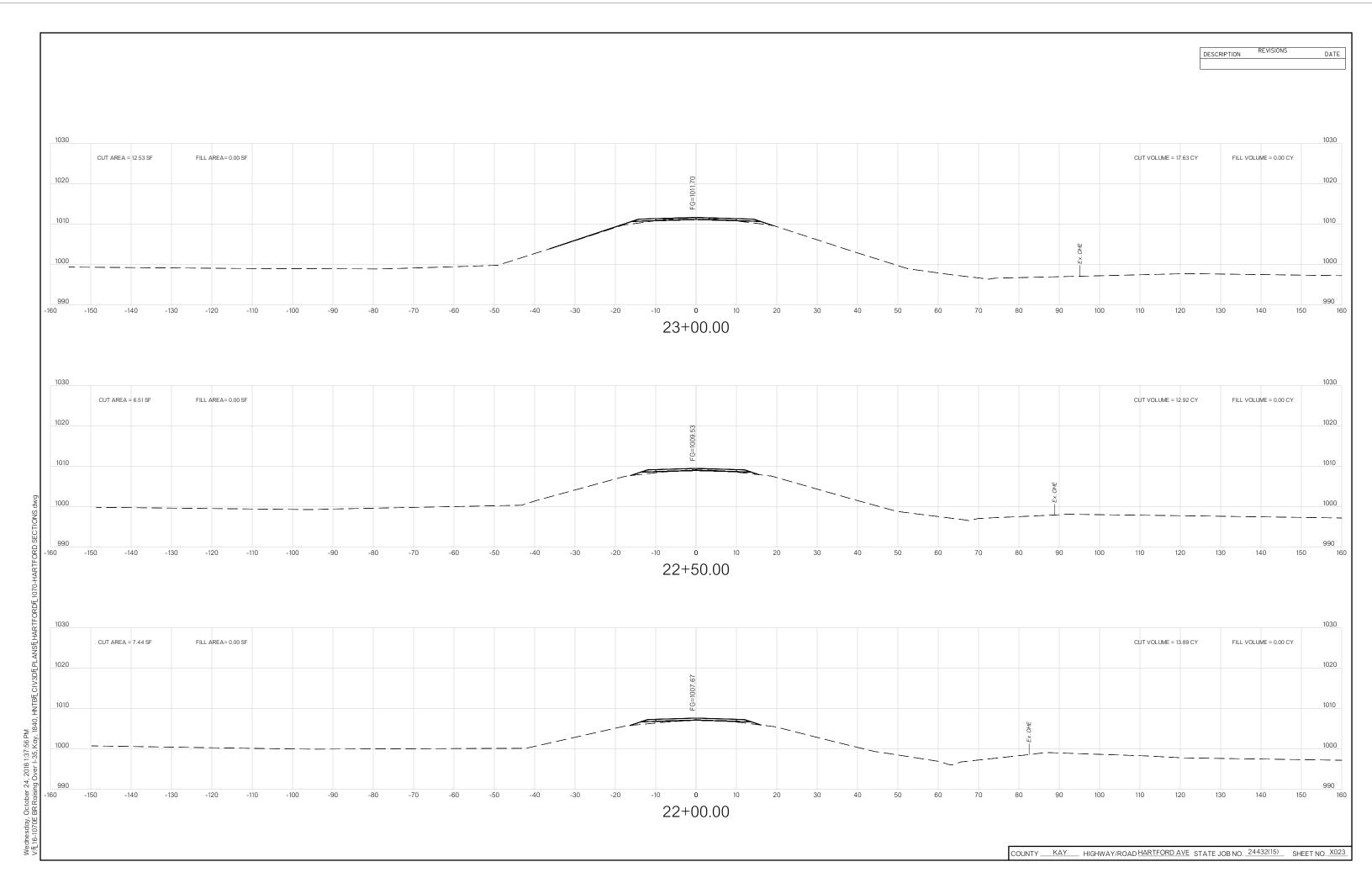


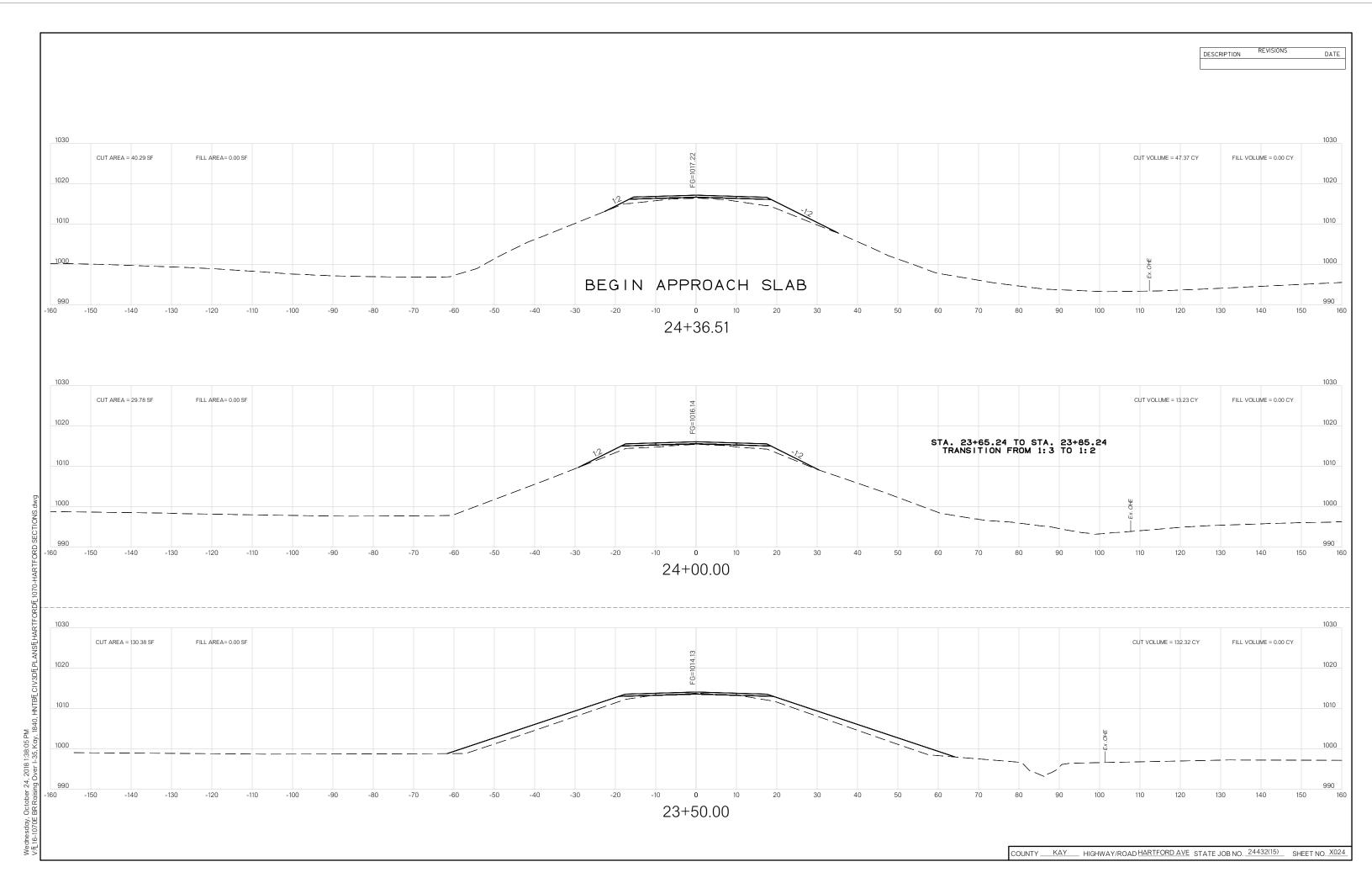


COUNTY KAY HIGHWAY/ROAD HIGHLAND AVE STATE JOB NO. 24432(15) SHEET NO. X020

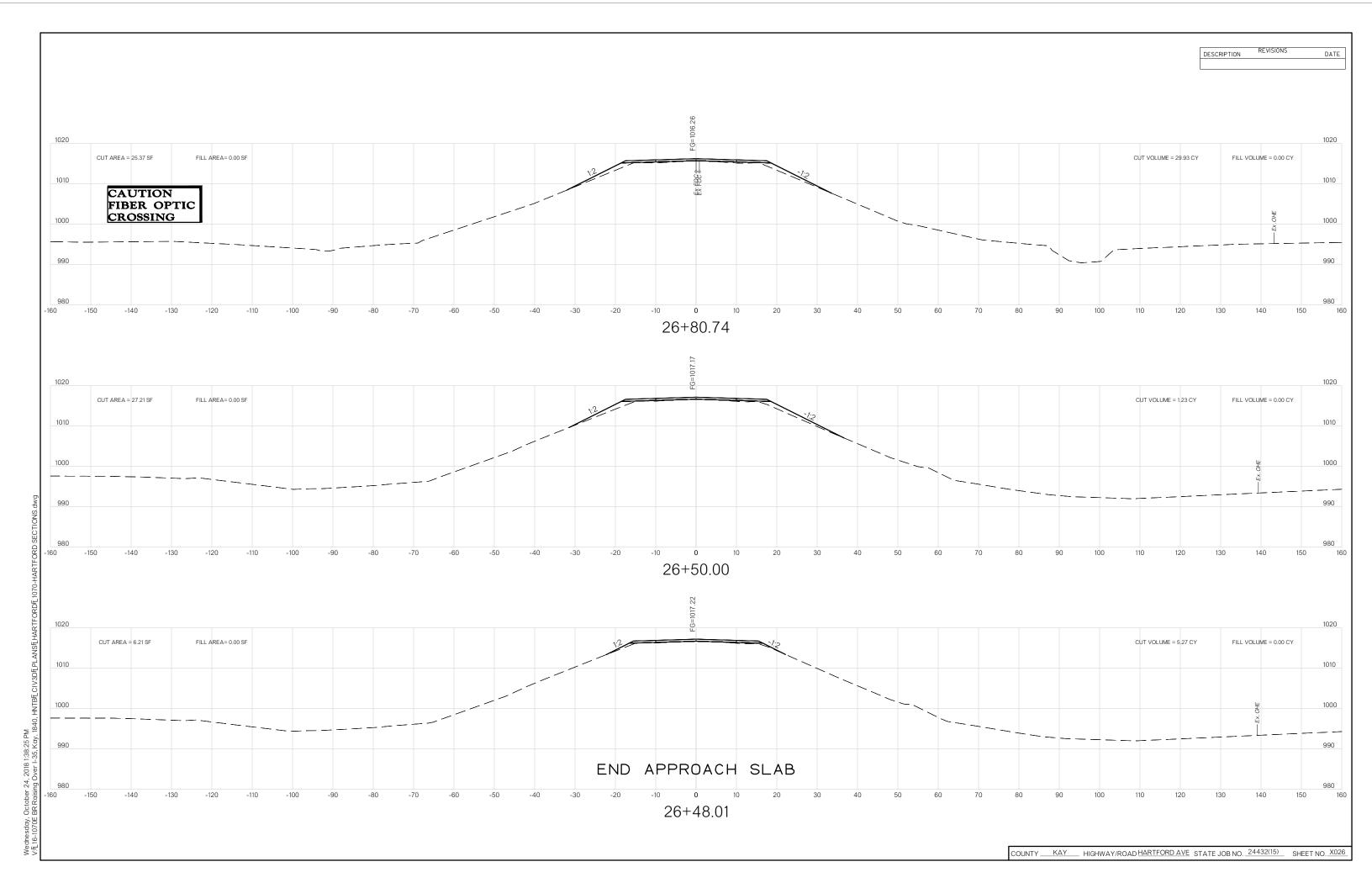


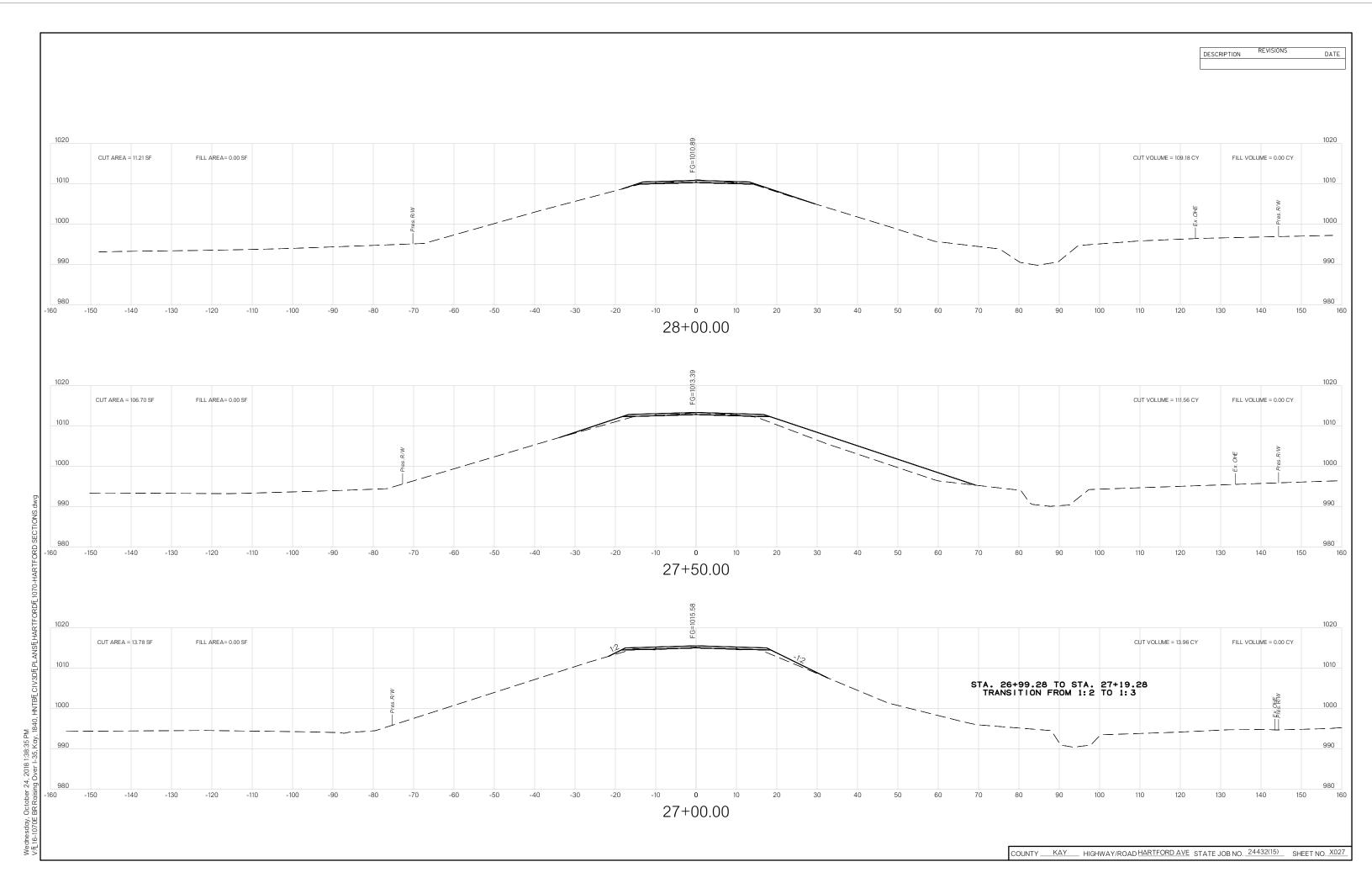


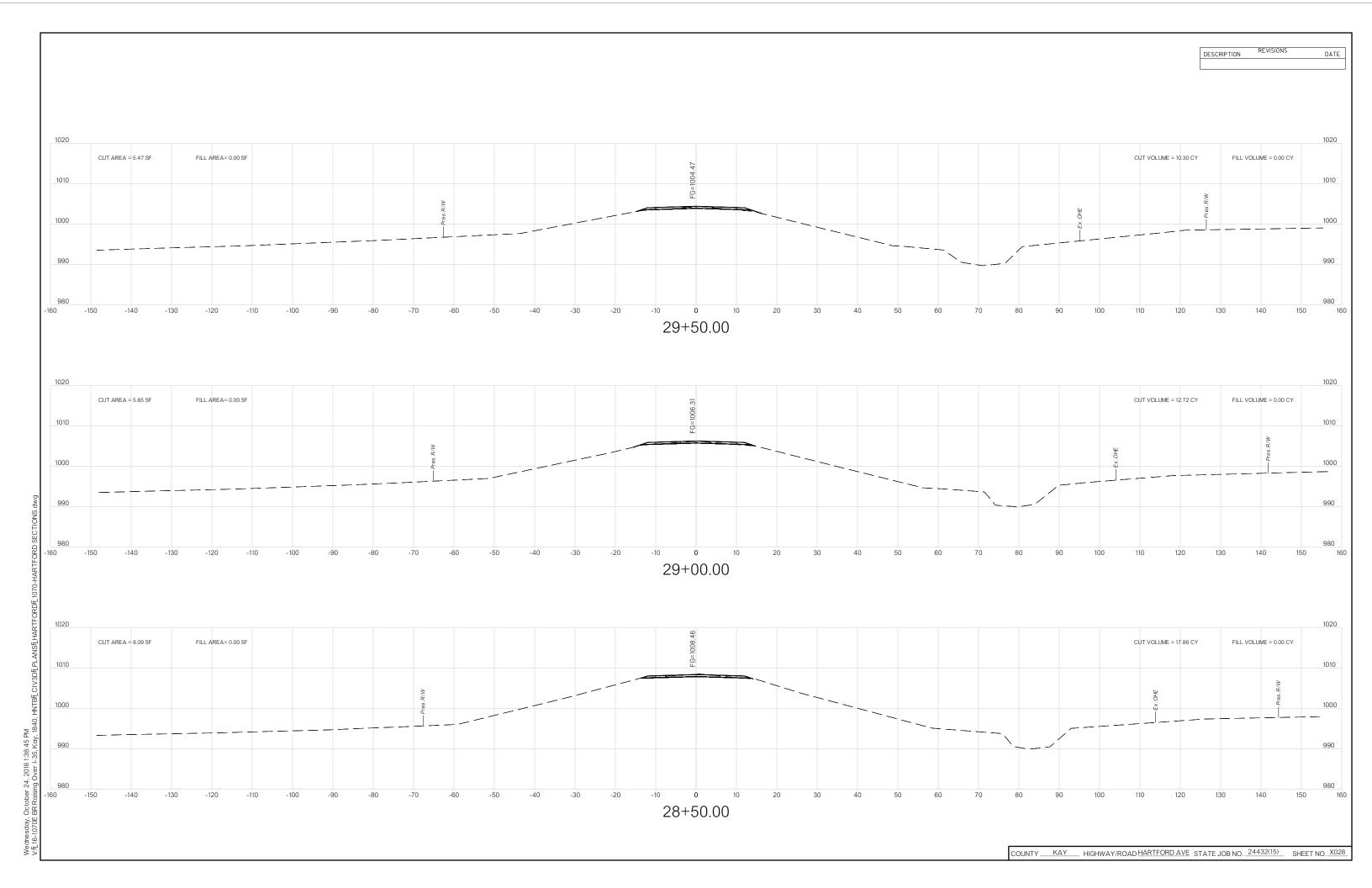


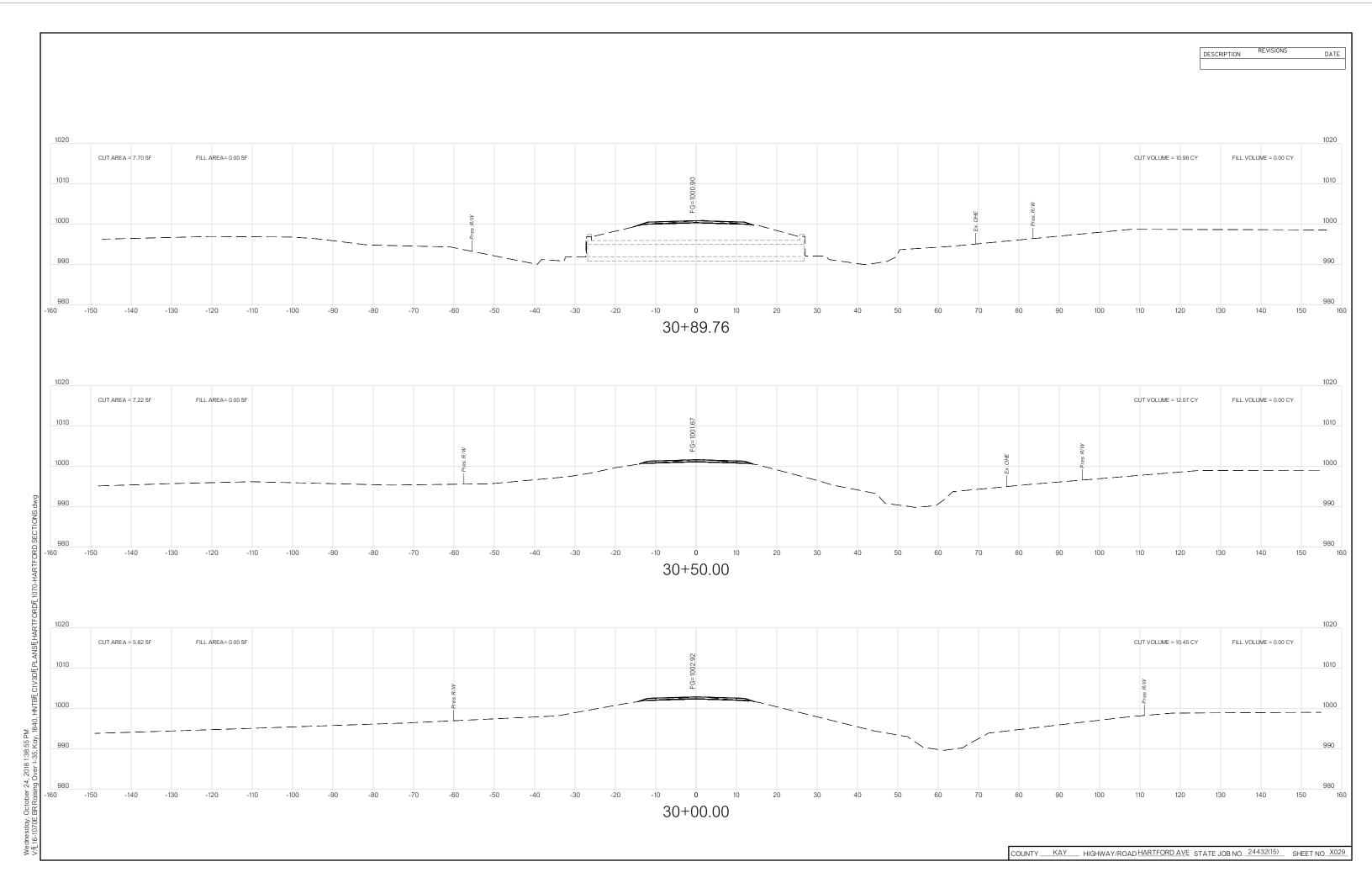


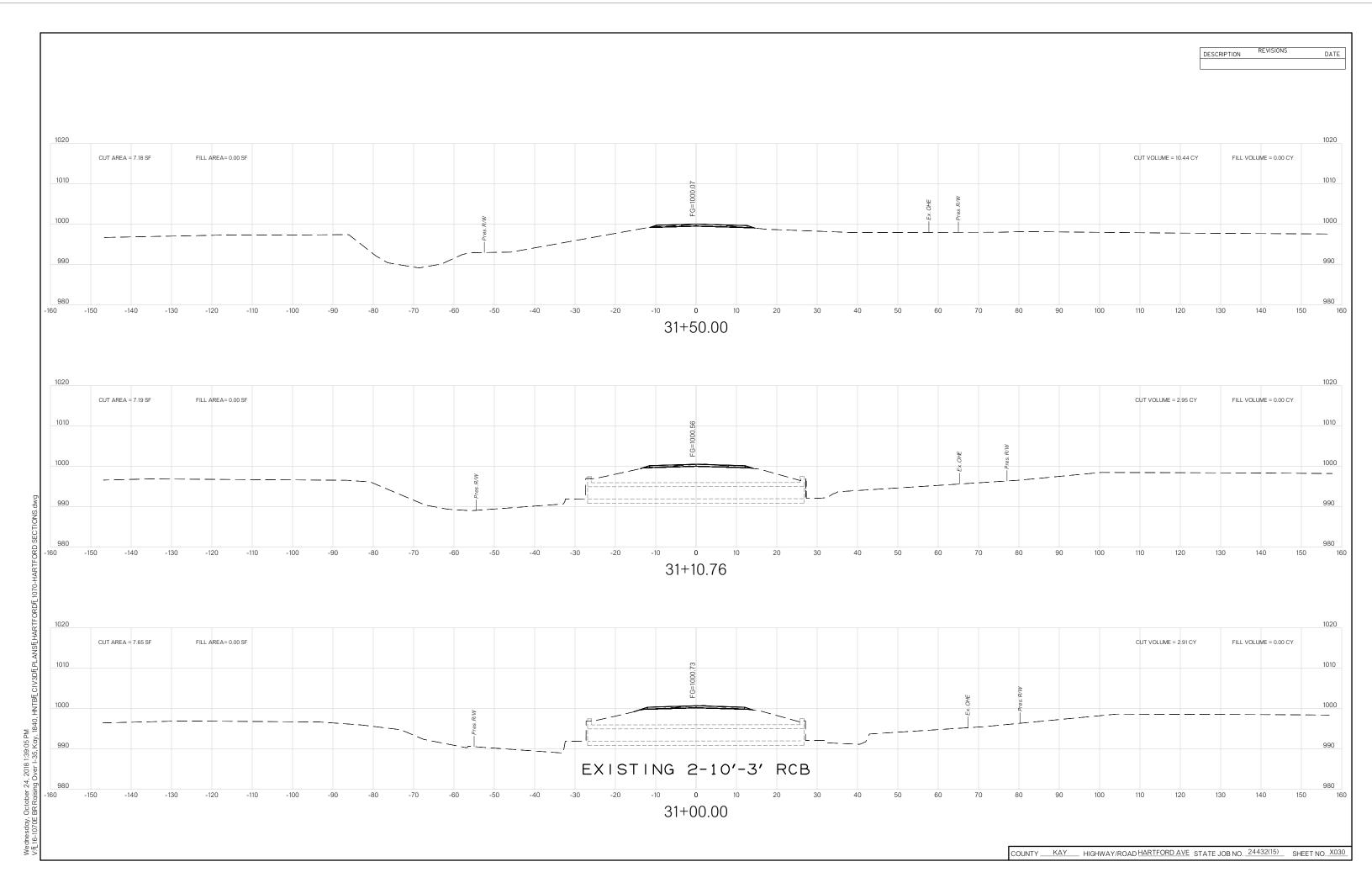
DESCRIPTION DATE 1020 SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) FILL VOLUME = 0.00 CY CUT AREA = 8.02 SF FILL AREA= 0.00 SF CUT VOLUME = 45.06 CY 1010 1000 1000 990 END BRIDGE 26+28.01 1020 SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) CUT AREA = 6.17 SF FILL AREA= 0.00 SF CUT VOLUME = 3,50 CY FILL VOLUME = 0.00 CY 1010 1010 1000 1000 BEGIN BRIDGE 24+56.51 1030 CUT AREA = 22.84 SF FILL AREA = 0.00 SF CUT VOLUME = 15.77 CY FILL VOLUME = 0.00 CY 1020 1020 1010 1010 1000 24+50.00 COUNTY KAY HIGHWAY/ROAD HARTFORD AVE STATE JOB NO. 24432(15) SHEET NO. X025



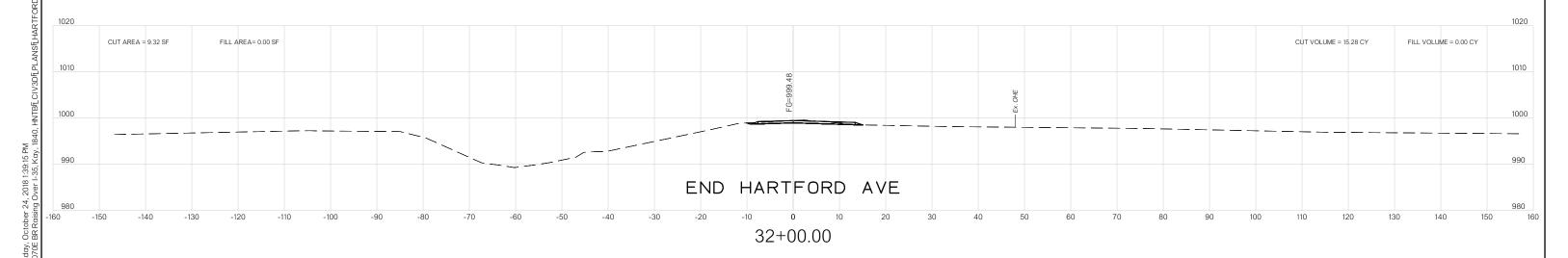






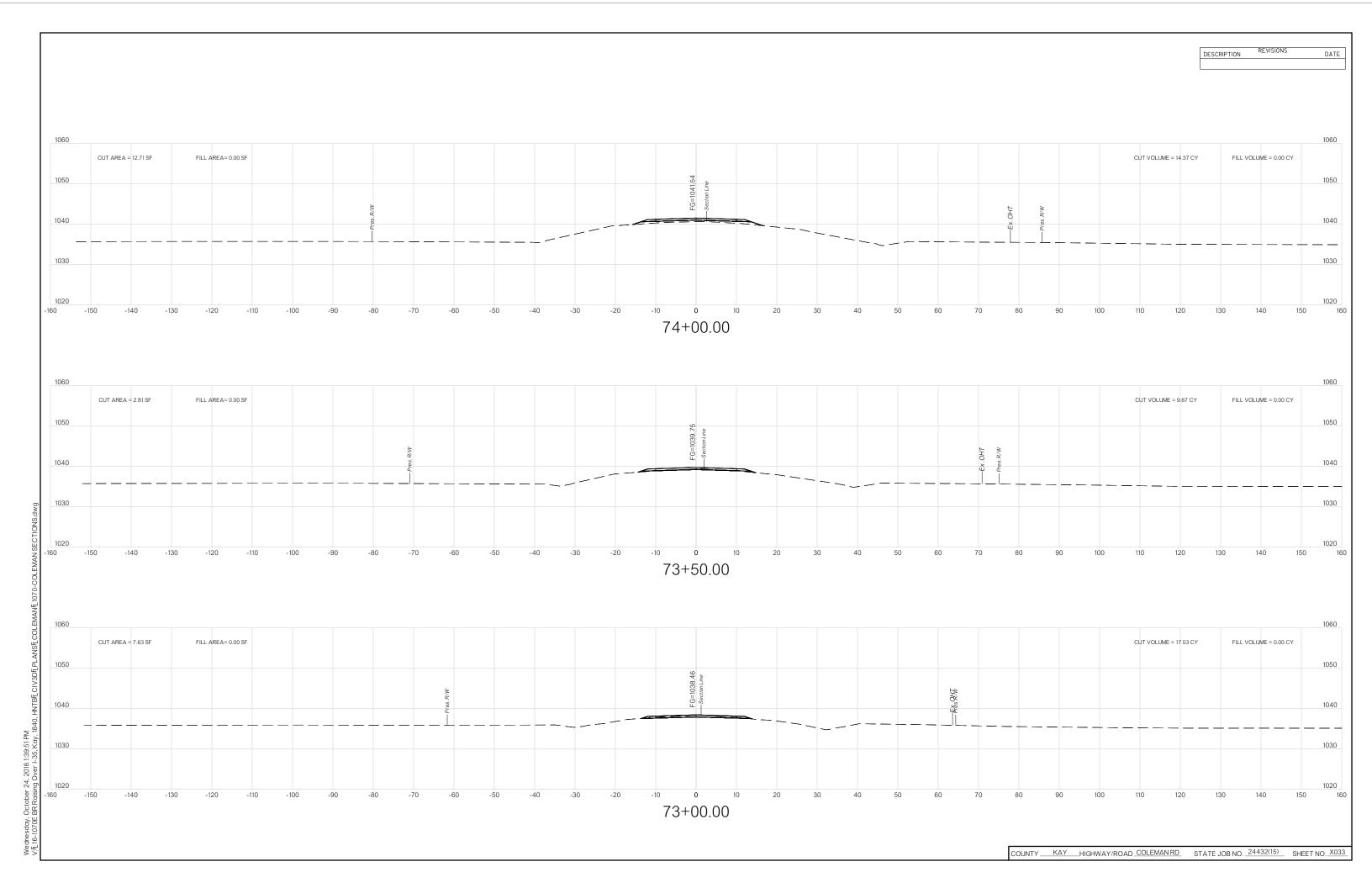


DESCRIPTION REVISIONS DATE



COUNTY KAY HIGHWAY/ROAD HARTFORD AVE STATE JOB NO. 24432(15) SHEET NO. X031

DESCRIPTION DATE 1070 FILL AREA= 0.00 SF CUT AREA = 11.31 SF CUT VOLUME = 18.45 CY FILL VOLUME = 0.00 CY 1060 1050 1050 1040 1040 72+50.00 CUT AREA = 8.61 SF FILL AREA= 0.00 SF CUT VOLUME = 12.58 CY FILL VOLUME = 0.00 CY 1050 1050 STA. 72+01 22' PVT DRIVE STA. 72+00 24' PVT DRIVE 1040 1040 1030 1030 1020 1020 72+00.00 1060 1060 CUT VOLUME = 0.00 CY CUT AREA = 8.37 SF FILL AREA= 0.00 SF FILL VOLUME = 0.00 CY 1050 1050 1040 1030 1030 BEGIN COLEMAN RD 1020 1020 71+60.00 COUNTY KAY HIGHWAY/ROAD COLEMAN RD STATE JOB NO. 24432(15) SHEET NO. X032

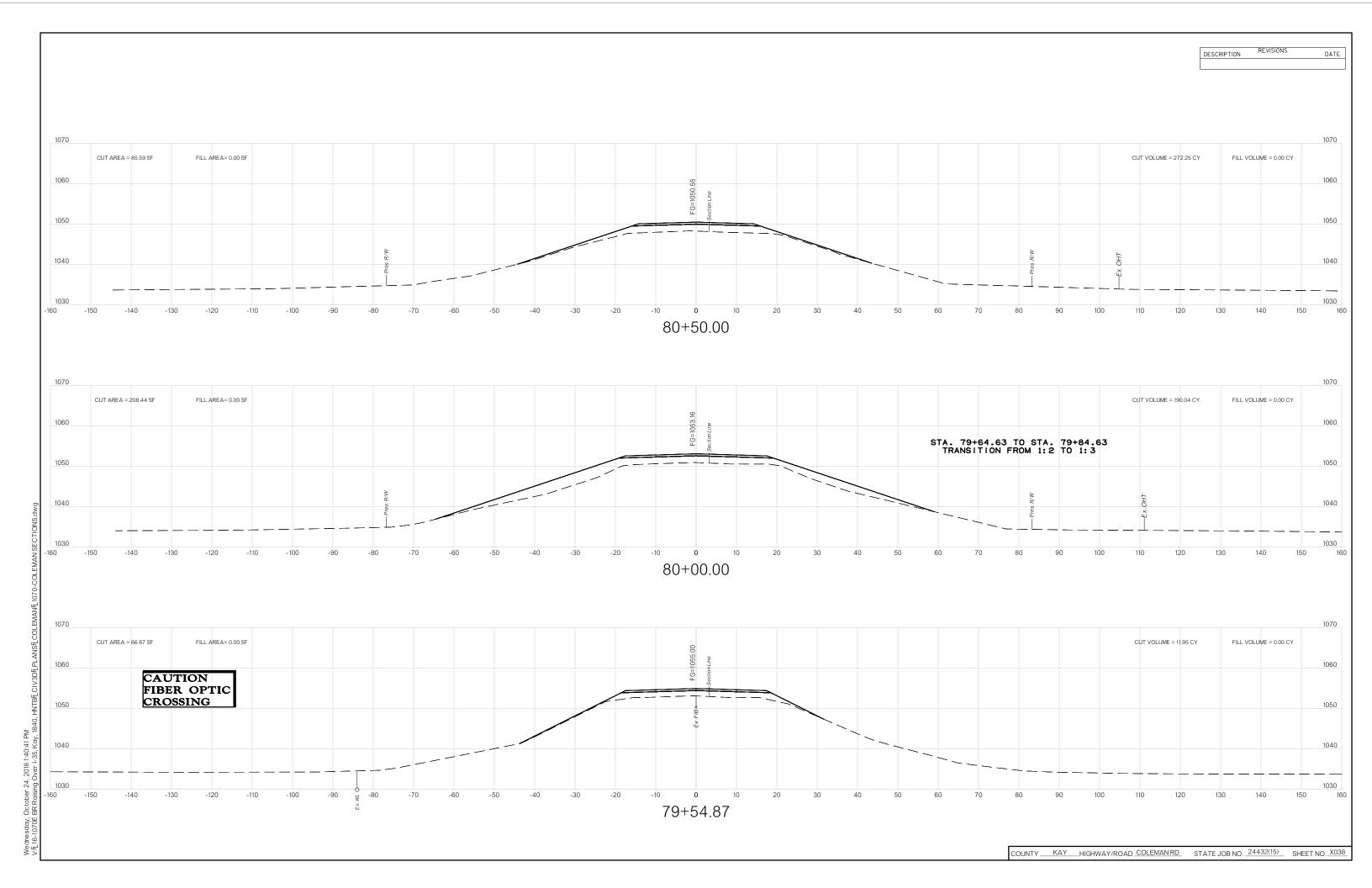


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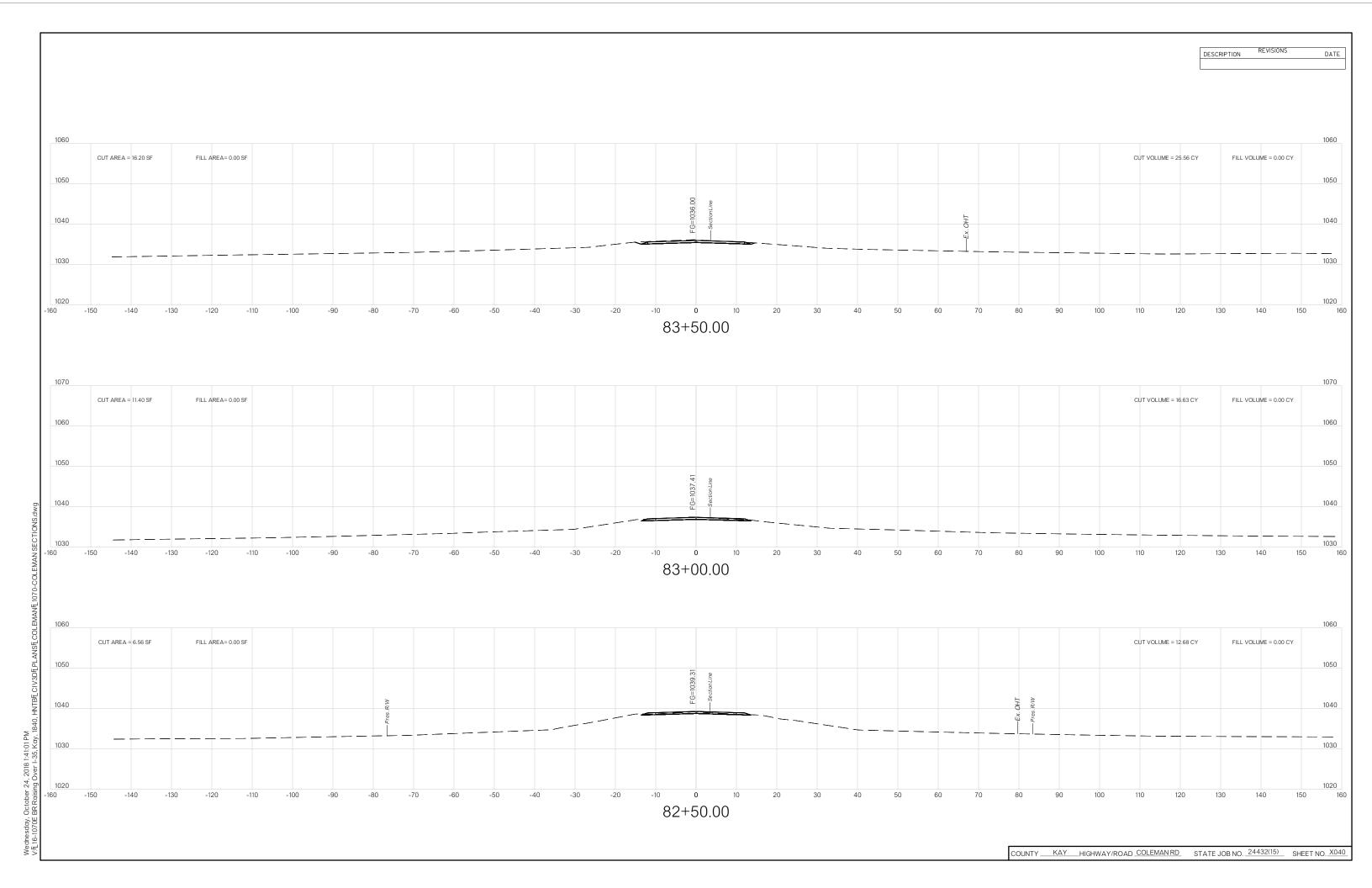
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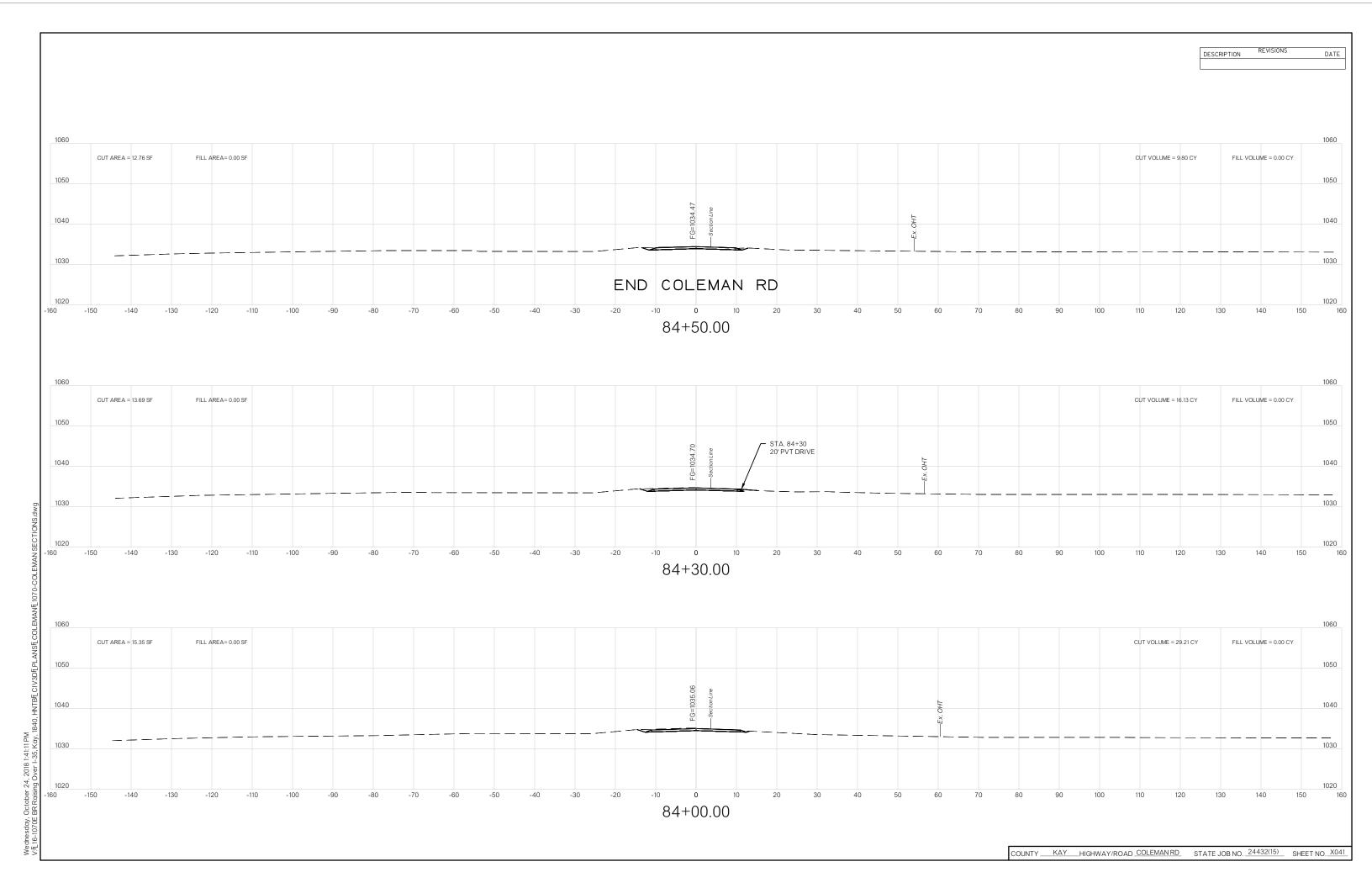
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FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) 1050 1050 1040 1040 END BRIDGE 78+93.36 CUT AREA = 187.21 SF FILL AREA= 0.00 SF CUT VOLUME = 95.79 CY FILL VOLUME = 0.00 CY 1060 1060 SEE BRIDGE SHEETS FOR ADDITIONAL INFORMATION FOR CONSTRUCTION OF SLOPEWALL (TYP) 1050 1050 1040 BEGIN BRIDGE 1030 77+21.86 1070 CUT AREA = 71.43 SF FILL AREA= 0.00 SF CUT VOLUME = 7.35 CY FILL VOLUME = 0.00 CY 1060 1060 1050 1050 1040 1040 BEGIN APPROACH SLAB 1030 1030 77+01.86 COUNTY KAY HIGHWAY/ROAD COLEMAN RD STATE JOB NO. 24432(15) SHEET NO. X036

DESCRIPTION DATE FILL AREA= 0.00 SF CUT VOLUME = 95.25 CY CUT AREA = 65.56 SF FILL VOLUME = 0.00 CY 1060 1050 1050 1040 79+50.00 CUT AREA = 74.81 SF FILL VOLUME = 0.00 CY 1060 1050 1050 1040 END APPROACH SLAB 1030 79+13.36 1070 CUT VOLUME = 24.56 CY CUT AREA = 96.35 SF FILL AREA= 0.00 SF FILL VOLUME = 0.00 CY 1060 1060 1040 79+00.00 COUNTY KAY HIGHWAY/ROAD COLEMAN RD STATE JOB NO. 24432(15) SHEET NO. X037



1060 CUT AREA = 7.14 SF FILL AREA= 0.00 SF CUT VOLUME = 31.82 CY FILL VOLUME = 0.00 CY 1050 1040 1020 1020 82+00.00 1060 CUT AREA = 27.22 SF FILL AREA= 0.00 SF CUT VOLUME = 67.91 CY FILL VOLUME = 0.00 CY 1050 1040 1030 81+50.00 CUT AREA = 46.11 SF FILL AREA= 0.00 SF CUT VOLUME = 121.95 CY FILL VOLUME = 0.00 CY 1050 1050 1040 1030 1030 81+00.00 COUNTY KAY HIGHWAY/ROAD COLEMAN RD STATE JOB NO. 24432(15) SHEET NO. X039

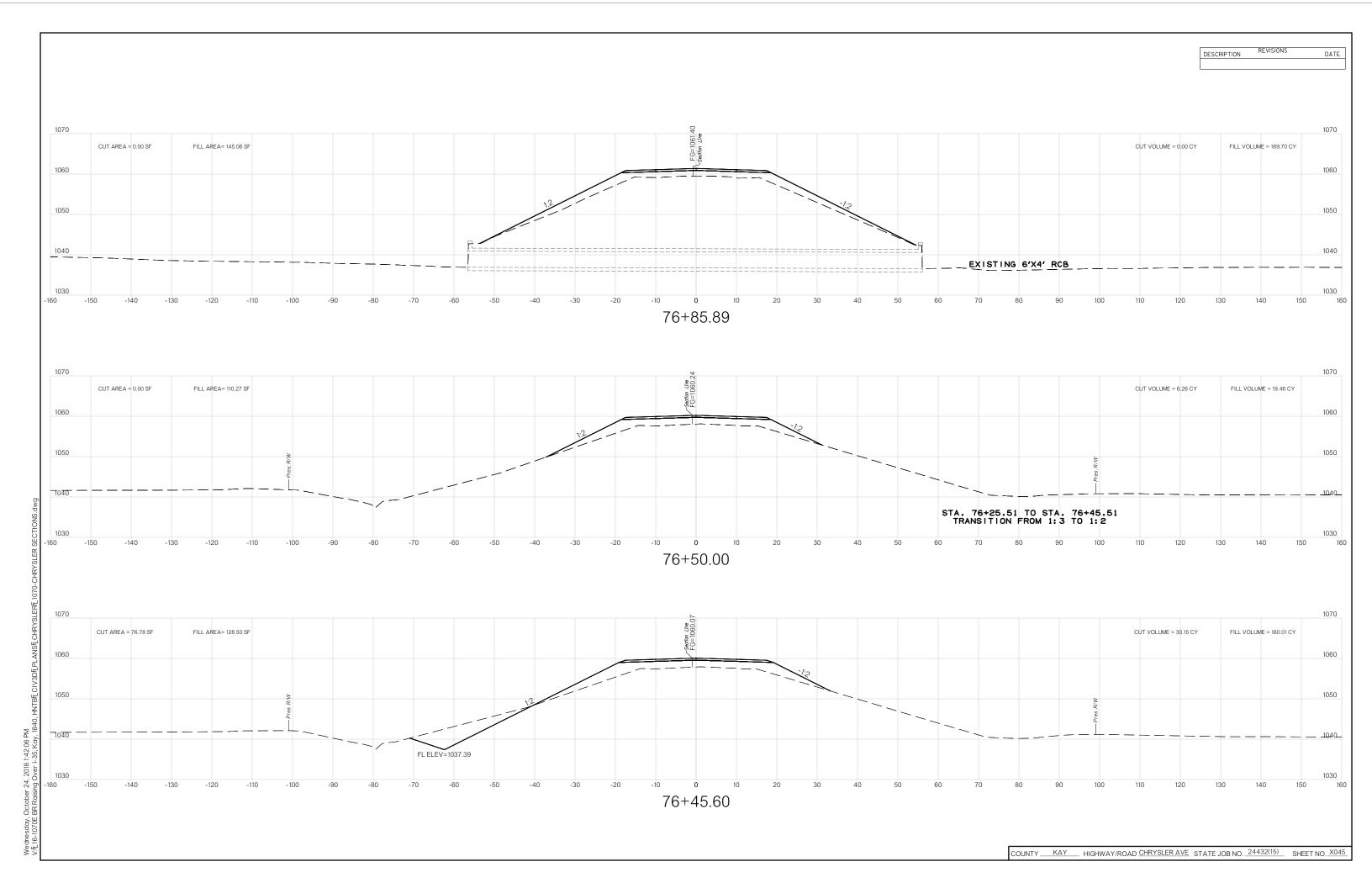




DESCRIPTION FILL VOLUME = 2.20 CY 1050 1050 73+50.00 CUT AREA = 11.50 SF FILL AREA= 0.51 SF CUT VOLUME = 30.39 CY FILL VOLUME = 0.70 CY 1060 1050 1030 73+00.00 FILL AREA= 0.00 SF CUT VOLUME = 36.82 CY CUT AREA = 10.38 SF FILL VOLUME = 0.00 CY BEGIN CHRYSLER AVE 72+25.00 COUNTY KAY HIGHWAY/ROAD CHRYSLER AVE STATE JOB NO. 24432(15) SHEET NO. X042

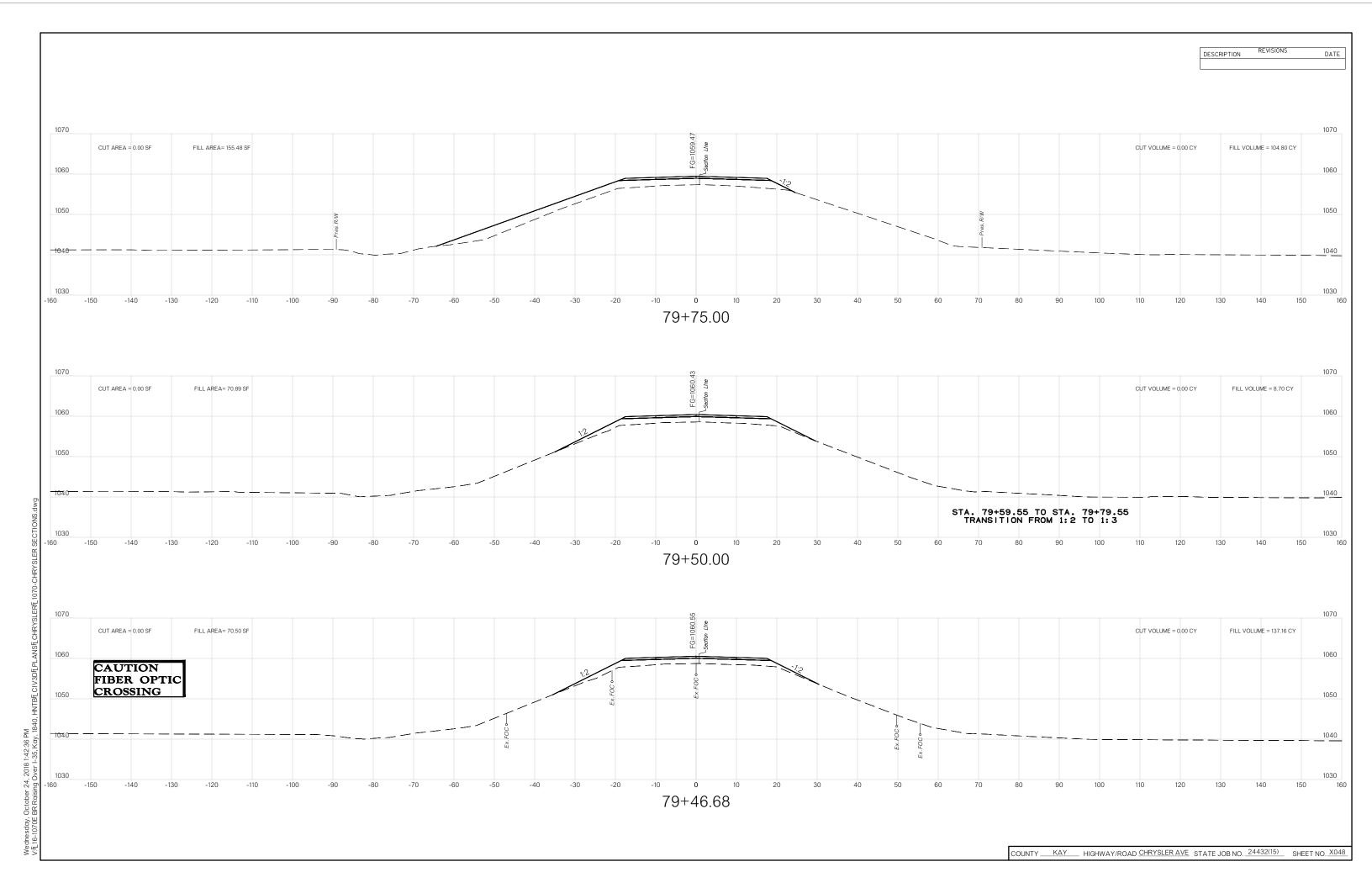
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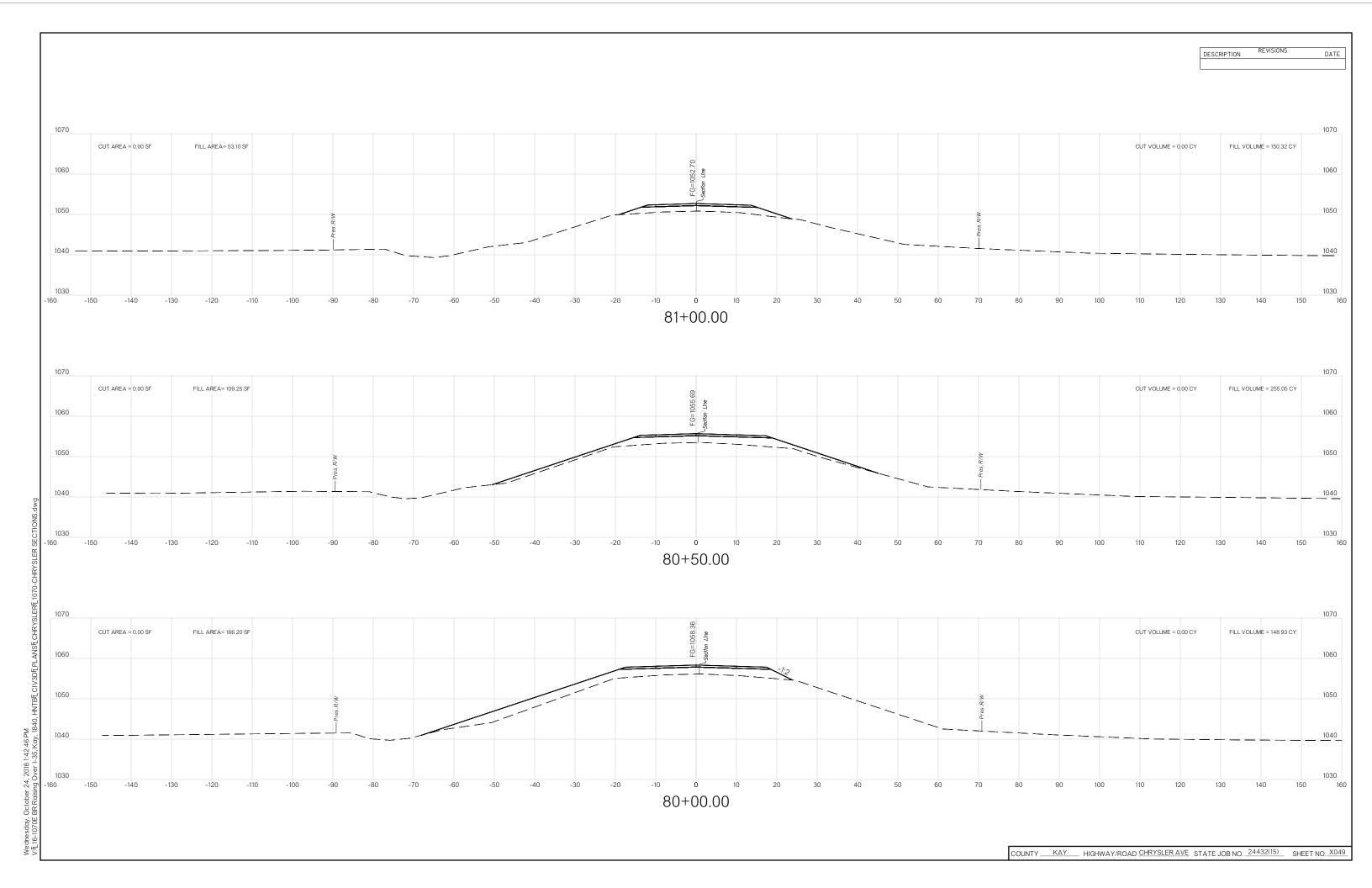
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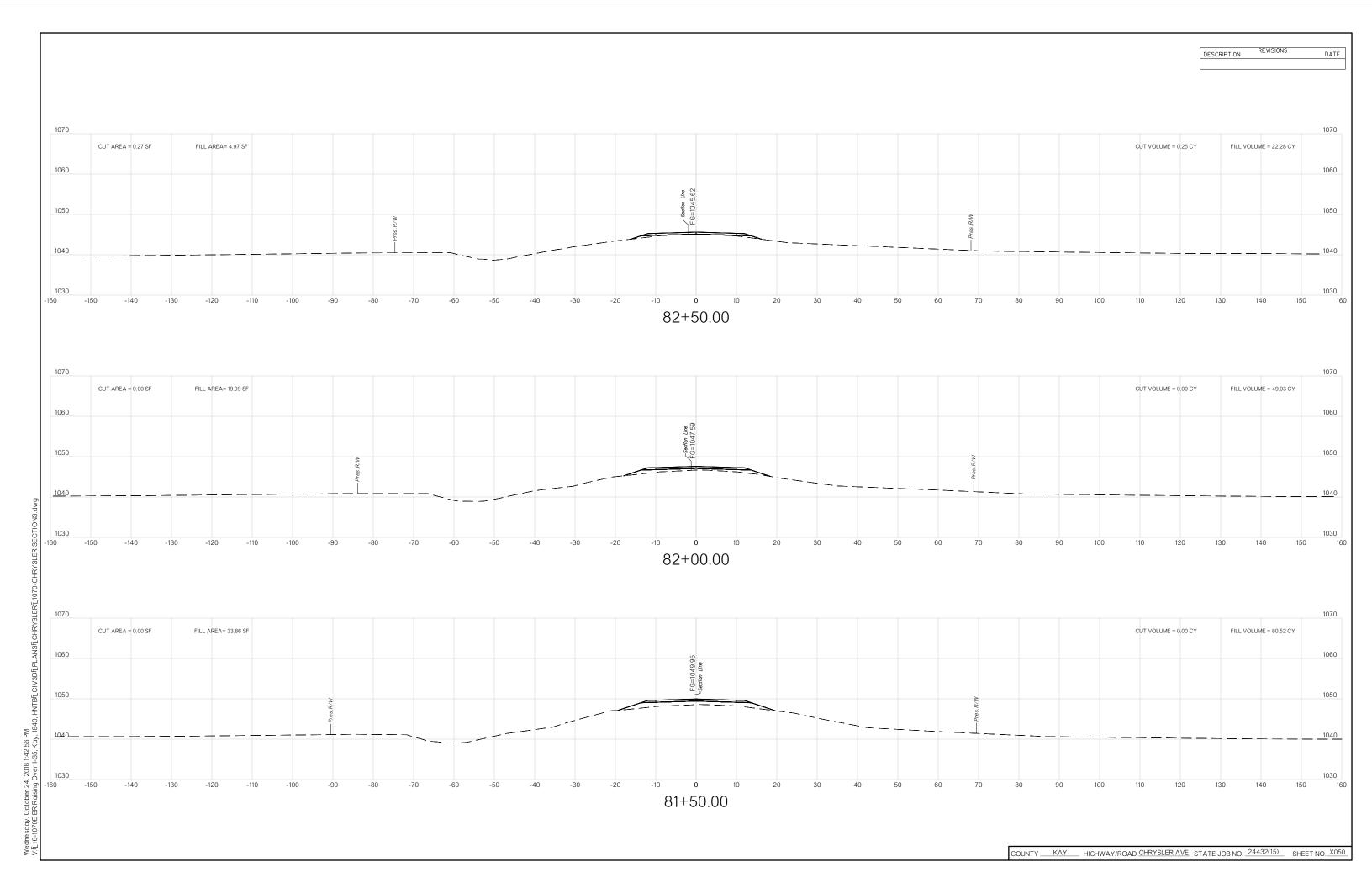


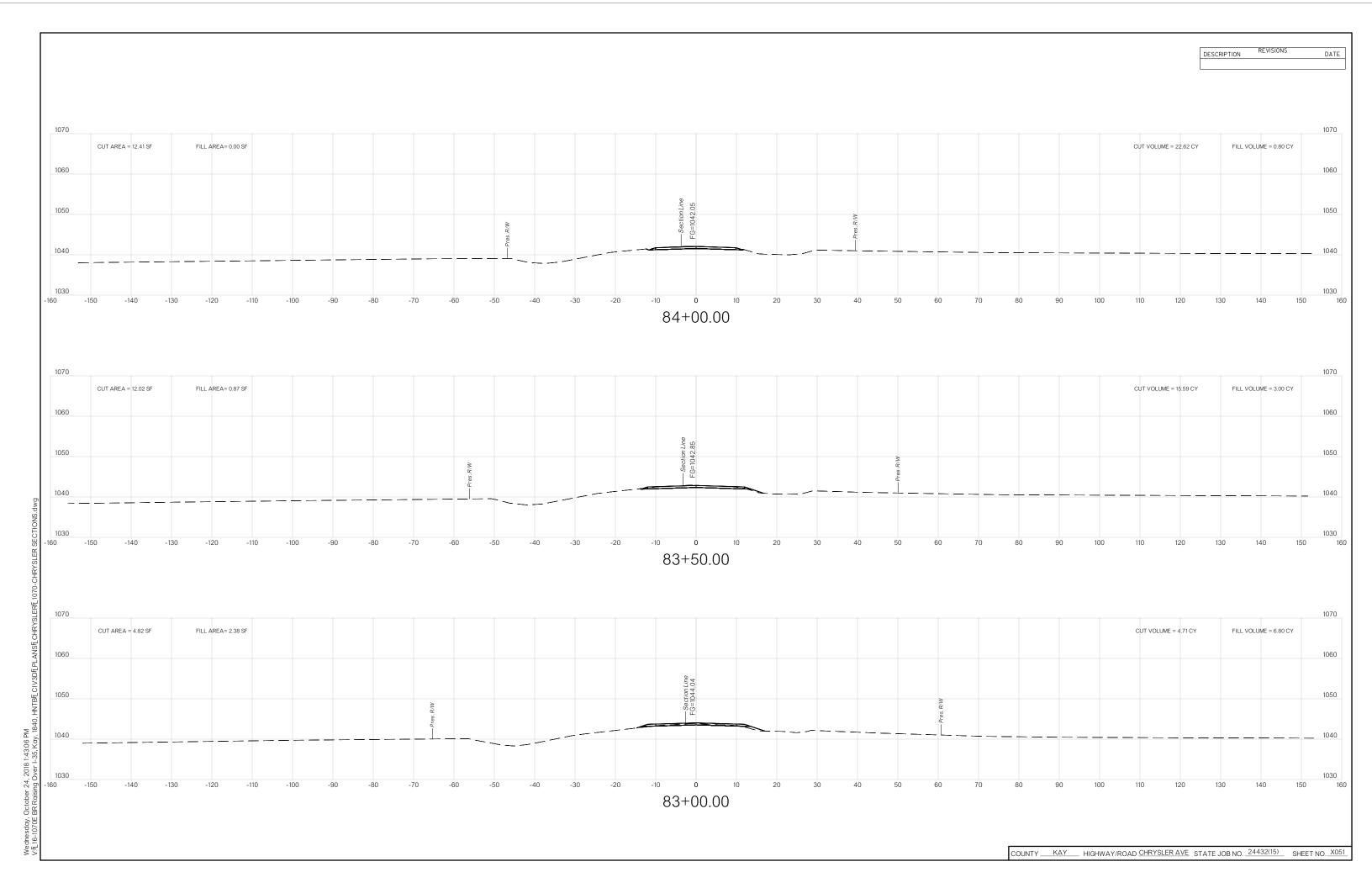
DESCRIPTION FILL AREA= 23.17 SF FILL VOLUME = 42.92 CY SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) 1060 1050 1050 BEGIN BRIDGE 1030 77+16.78 CUT AREA = 0.00 SF FILL AREA= 114.94 SF CUT VOLUME = 0.00 CY FILL VOLUME = 17.59 CY 1060 1060 1050 1050 1040 1030 1030 77+00.00 CUT VOLUME = 0.00 CY CUT AREA = 0.00 SF FILL AREA= 180.06 SF FILL VOLUME = 65.56 CY 1060 1050 1040 BEGIN APPROACH SLAB 76+96.78 COUNTY KAY HIGHWAY/ROAD CHRYSLER AVE STATE JOB NO. 24432(15) SHEET NO. X046

DESCRIPTION FILL VOLUME = 35.25 CY 1050 1050 END APPROACH SLAB 79+08.28 CUT AREA = 0.00 SF FILL AREA= 107.49 SF CUT VOLUME = 0.06 CY FILL VOLUME = 66.82 CY 1060 1060 1050 1050 1030 1030 79+00.00 CUT VOLUME = 1.59 CY CUT AREA = 0.25 SF FILL AREA= 200.40 SF FILL VOLUME = 710.06 CY SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) 1060 1050 END BRIDGE 78+88.28 COUNTY KAY HIGHWAY/ROAD CHRYSLER AVE STATE JOB NO. 24432(15) SHEET NO. X047



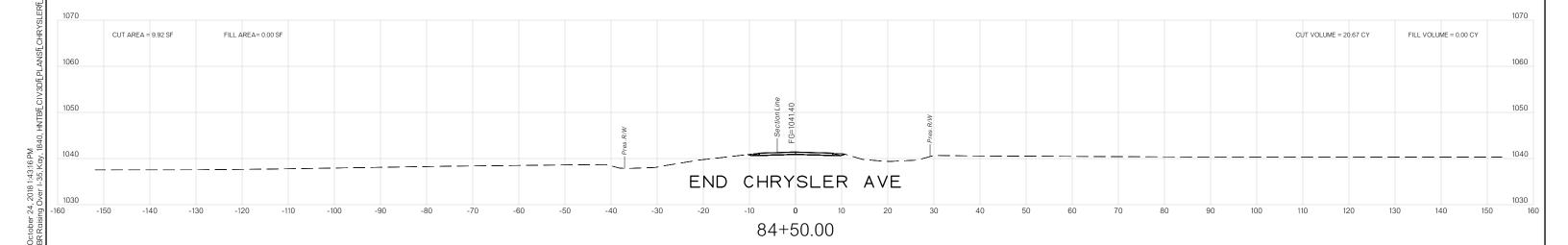


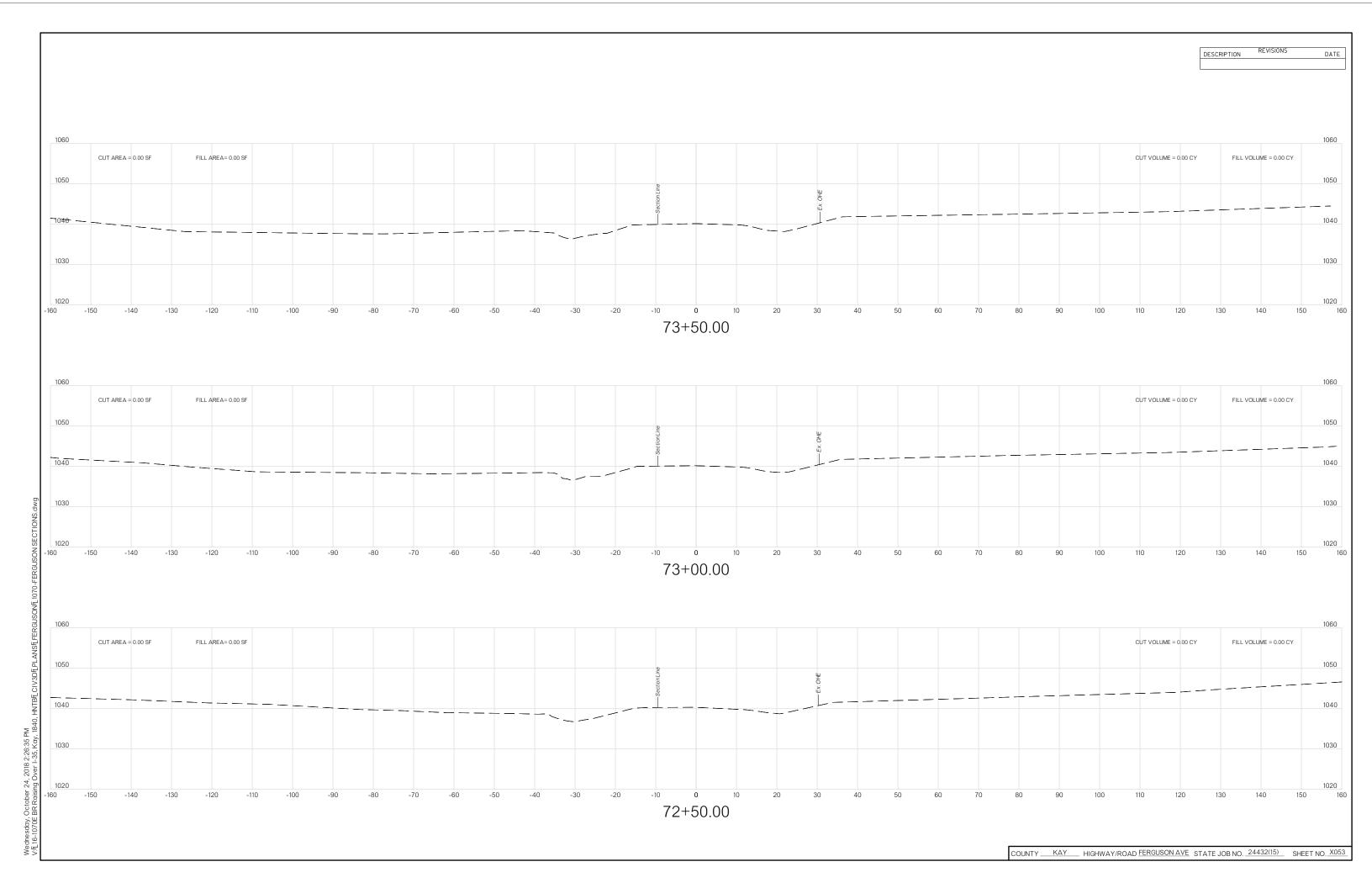




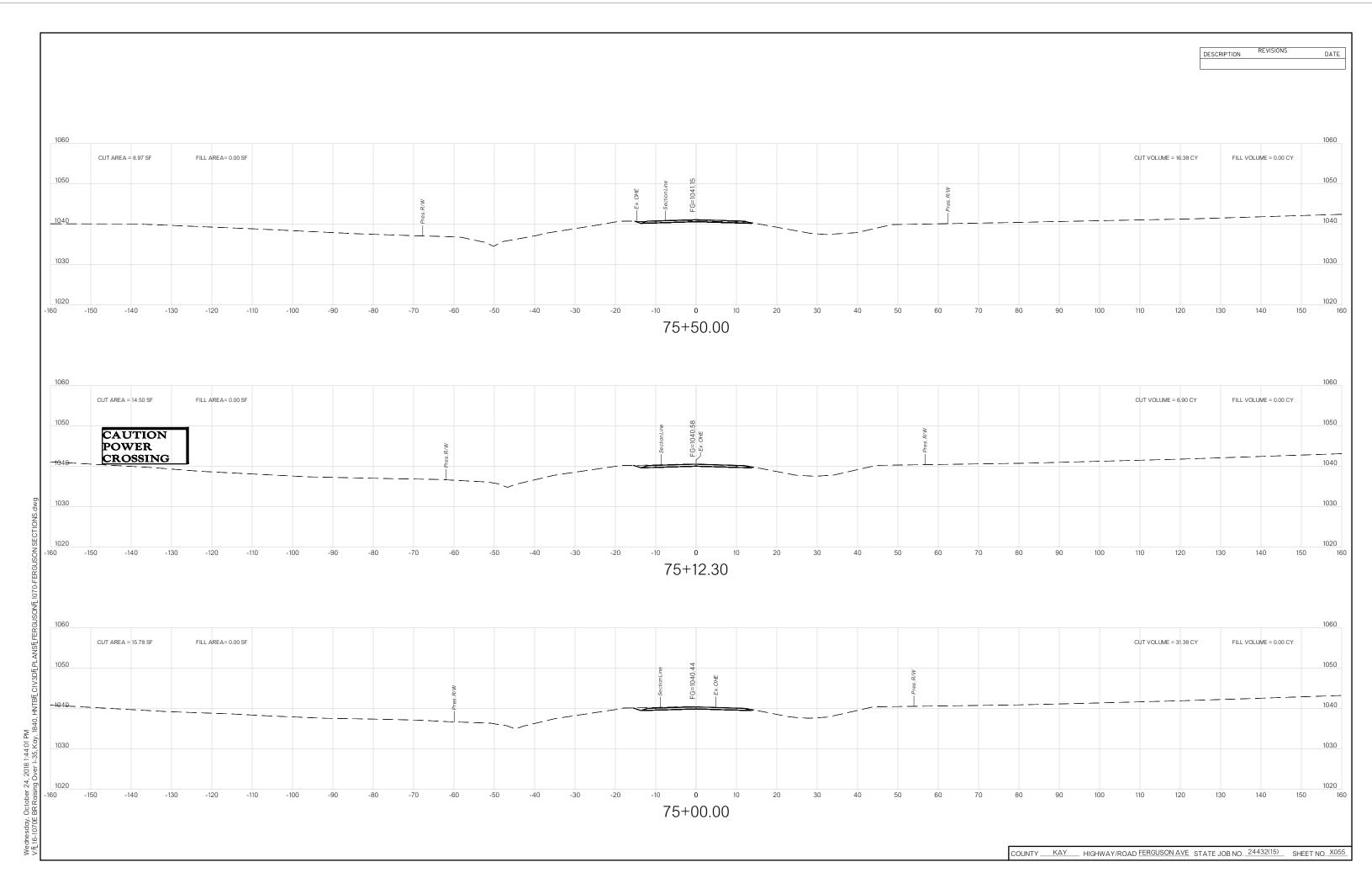
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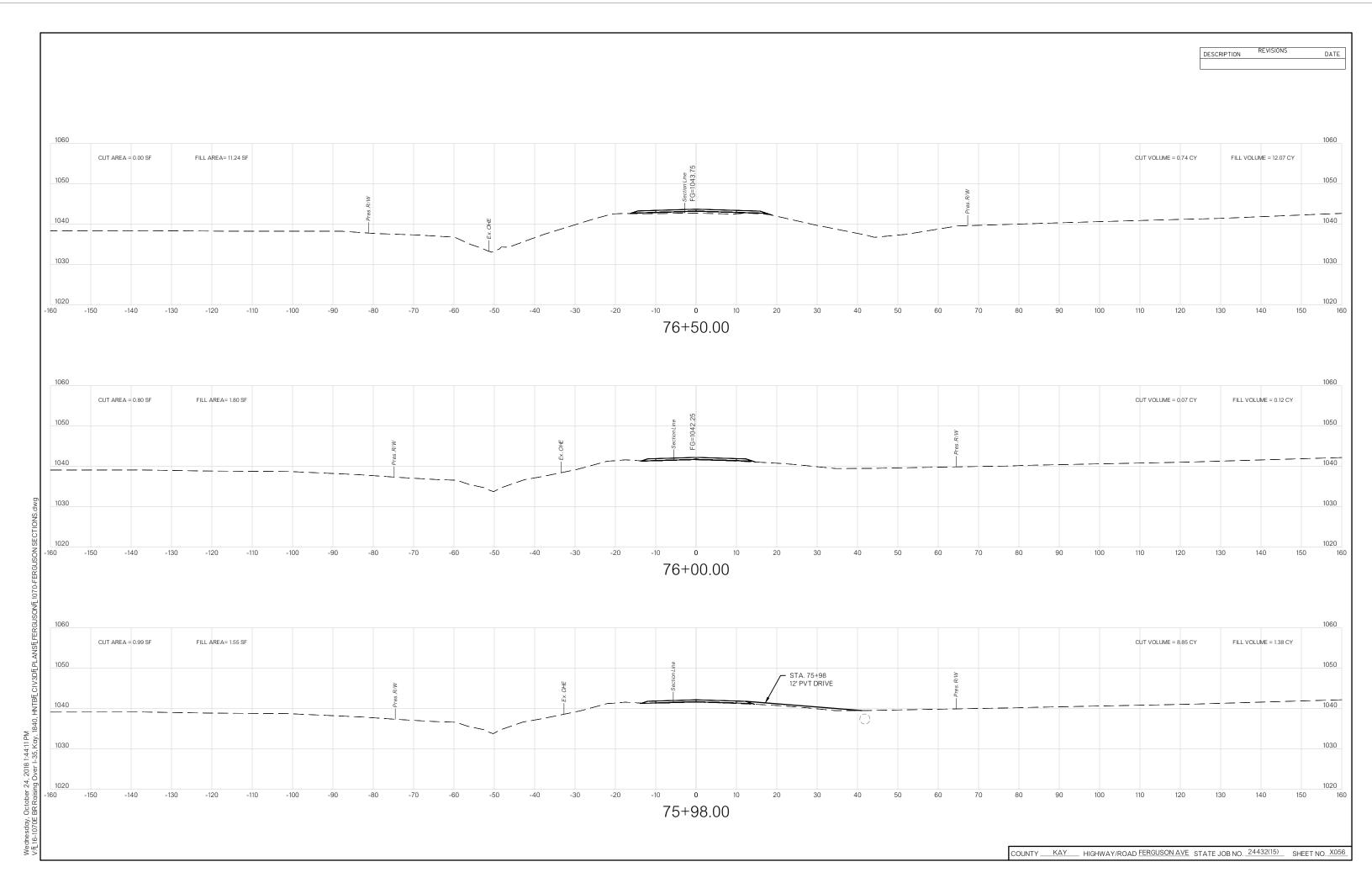
COUNTY KAY HIGHWAY/ROAD CHRYSLER AVE STATE JOB NO. 24432(15) SHEET NO. X052

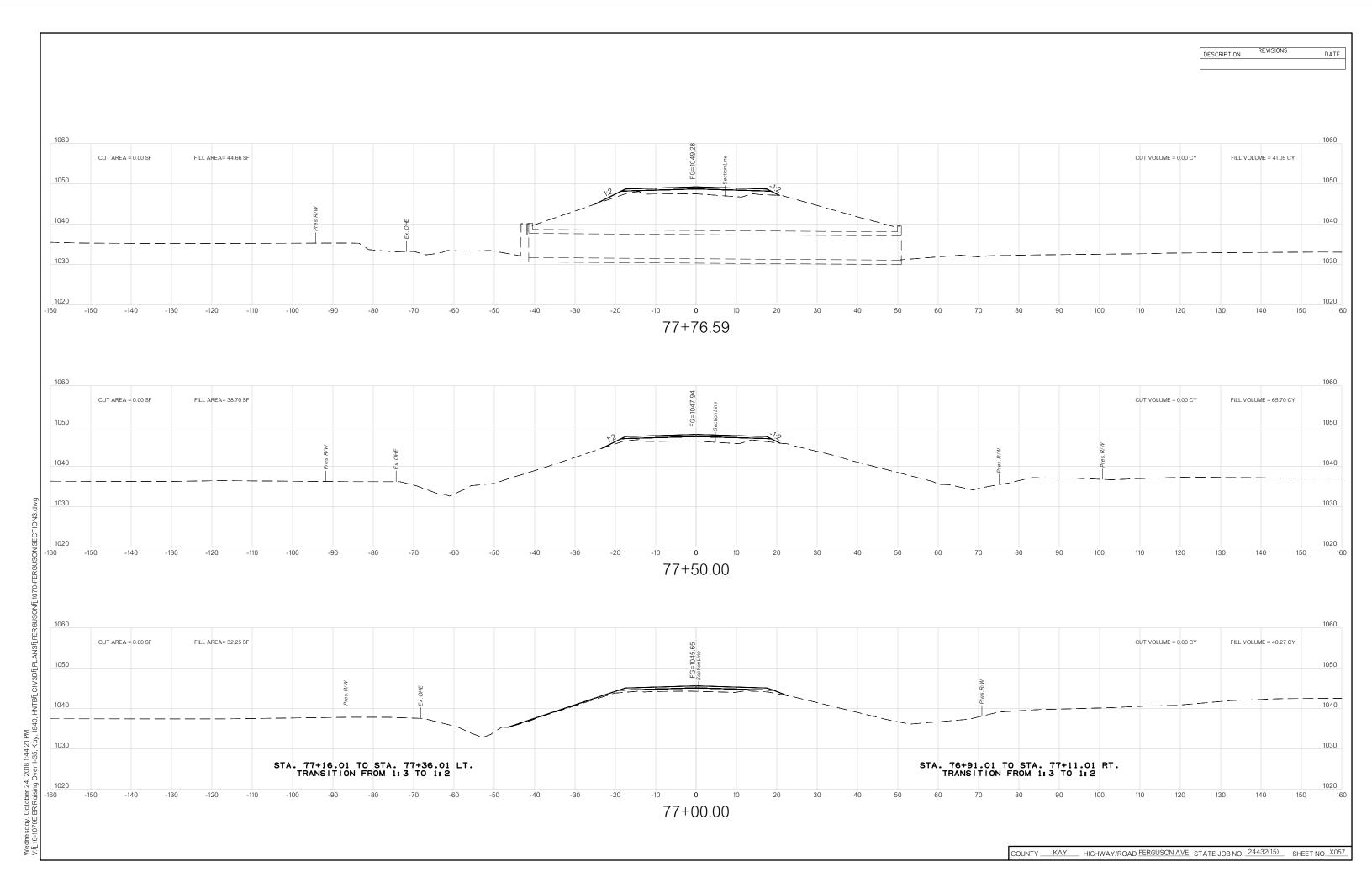


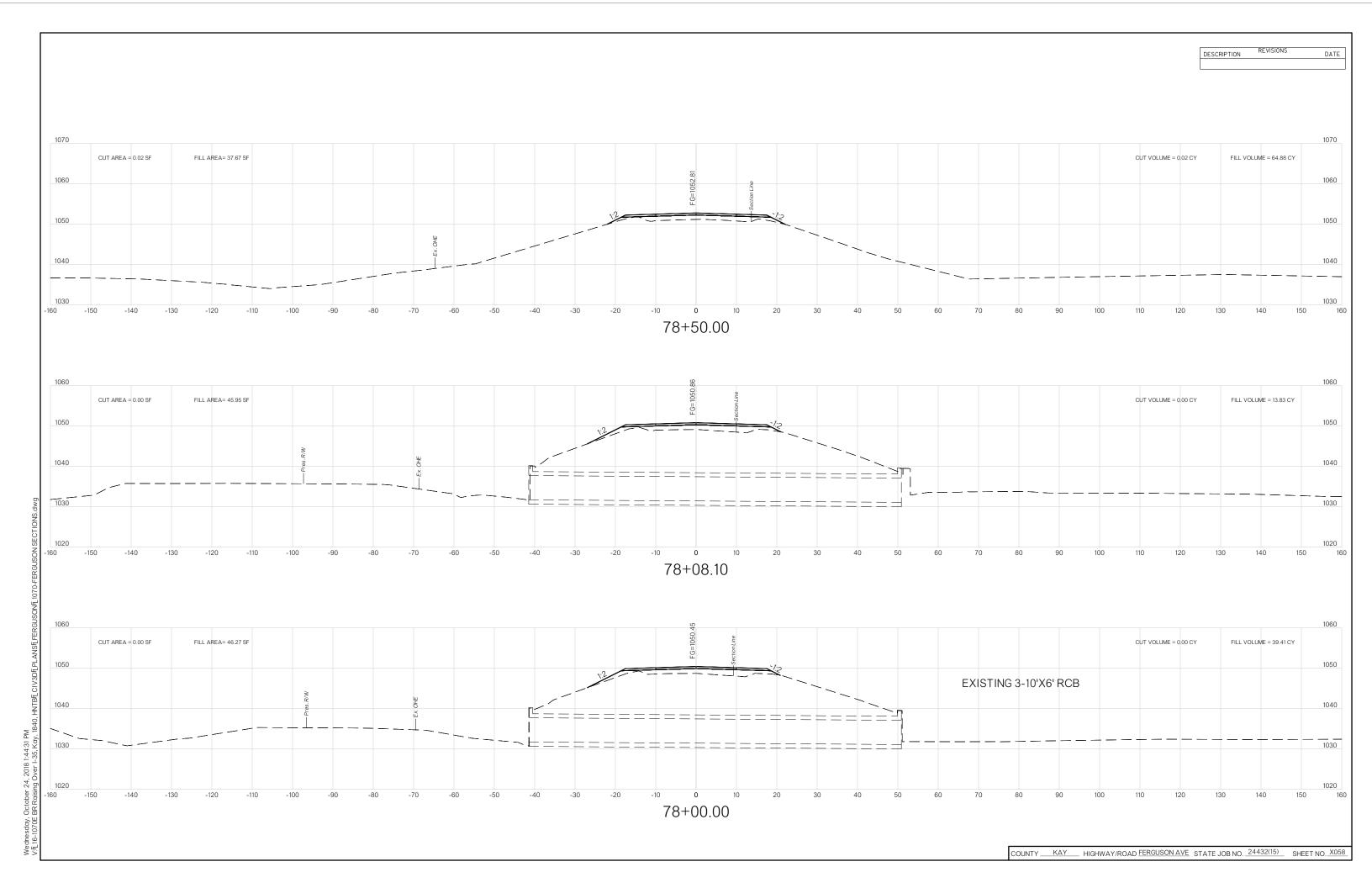


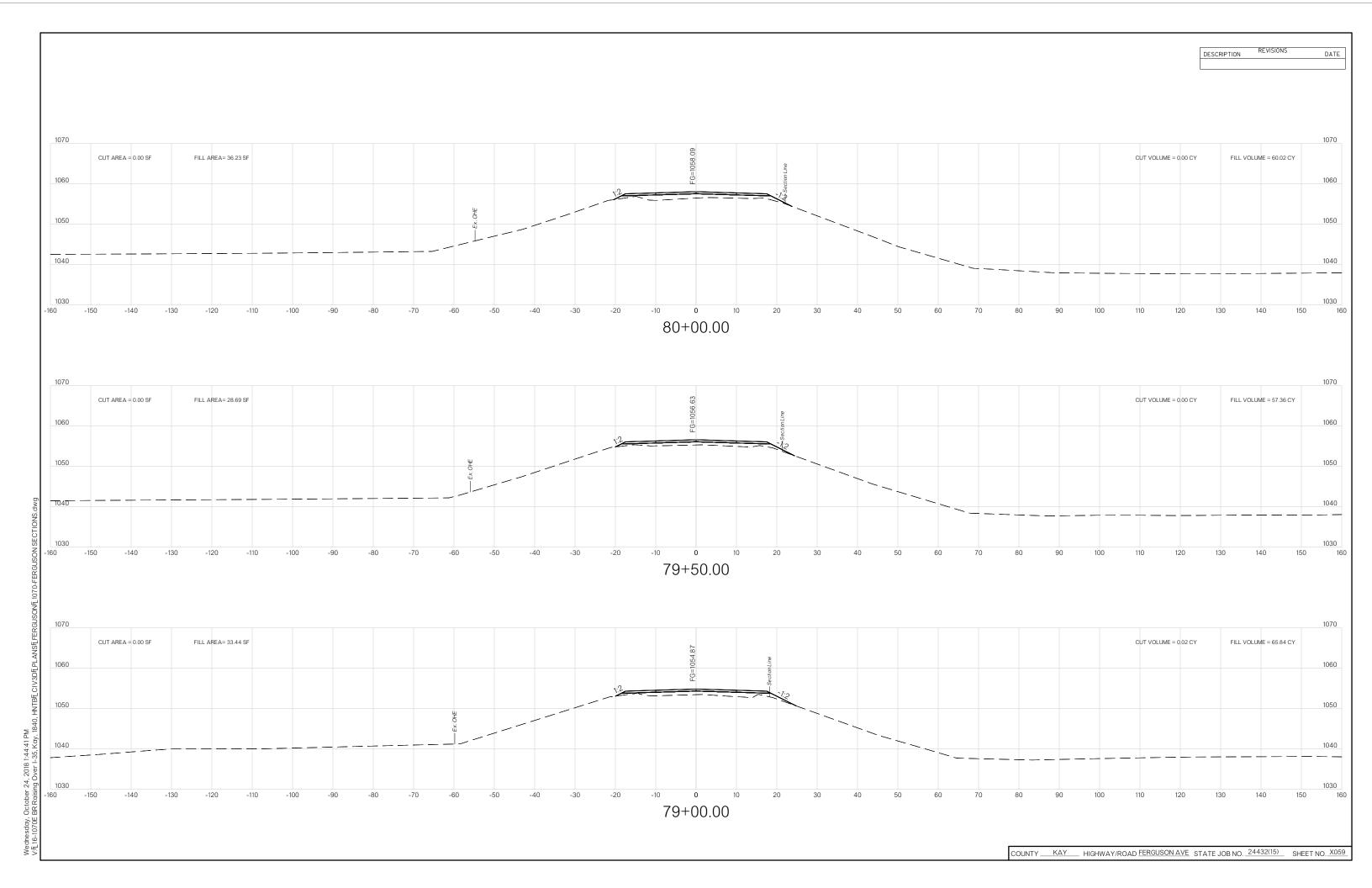
DESCRIPTION FILL AREA= 0.00 SF CUT AREA = 18.12 SF CUT VOLUME = 12.00 CY FILL VOLUME = 0.00 CY 1050 1030 1030 74+50.00 CUT AREA = 16.51 SF FILL AREA= 0.00 SF CUT VOLUME = 15.36 CY FILL VOLUME = 0.00 CY 1050 1030 CAUTION POWER CROSSING 74+31.29 FILL VOLUME = 0.00 CY 1050 1050 1030 1030 1020 74+05.00 COUNTY KAY HIGHWAY/ROAD FERGUSON AVE STATE JOB NO. 24432(15) SHEET NO. X054

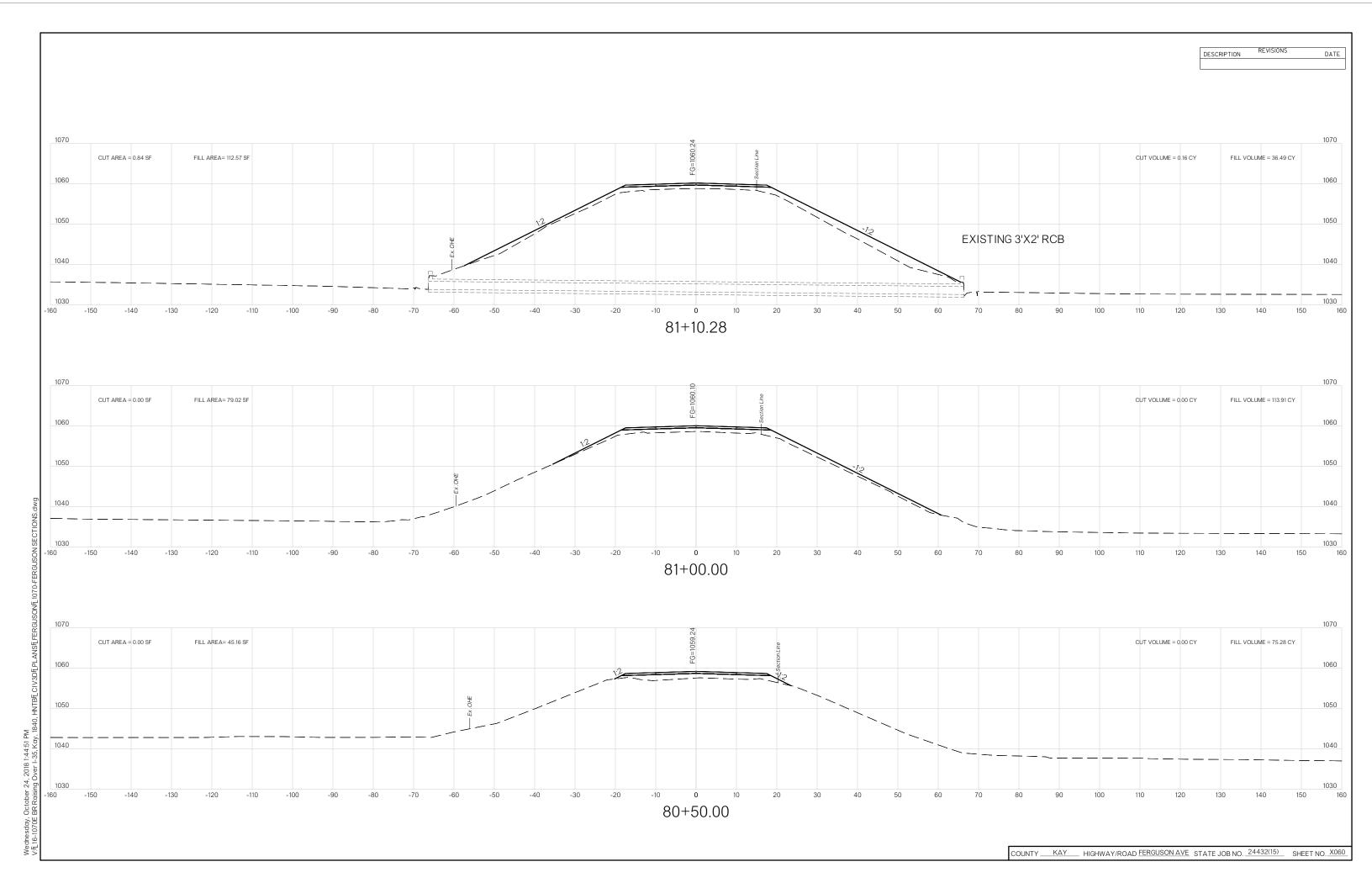






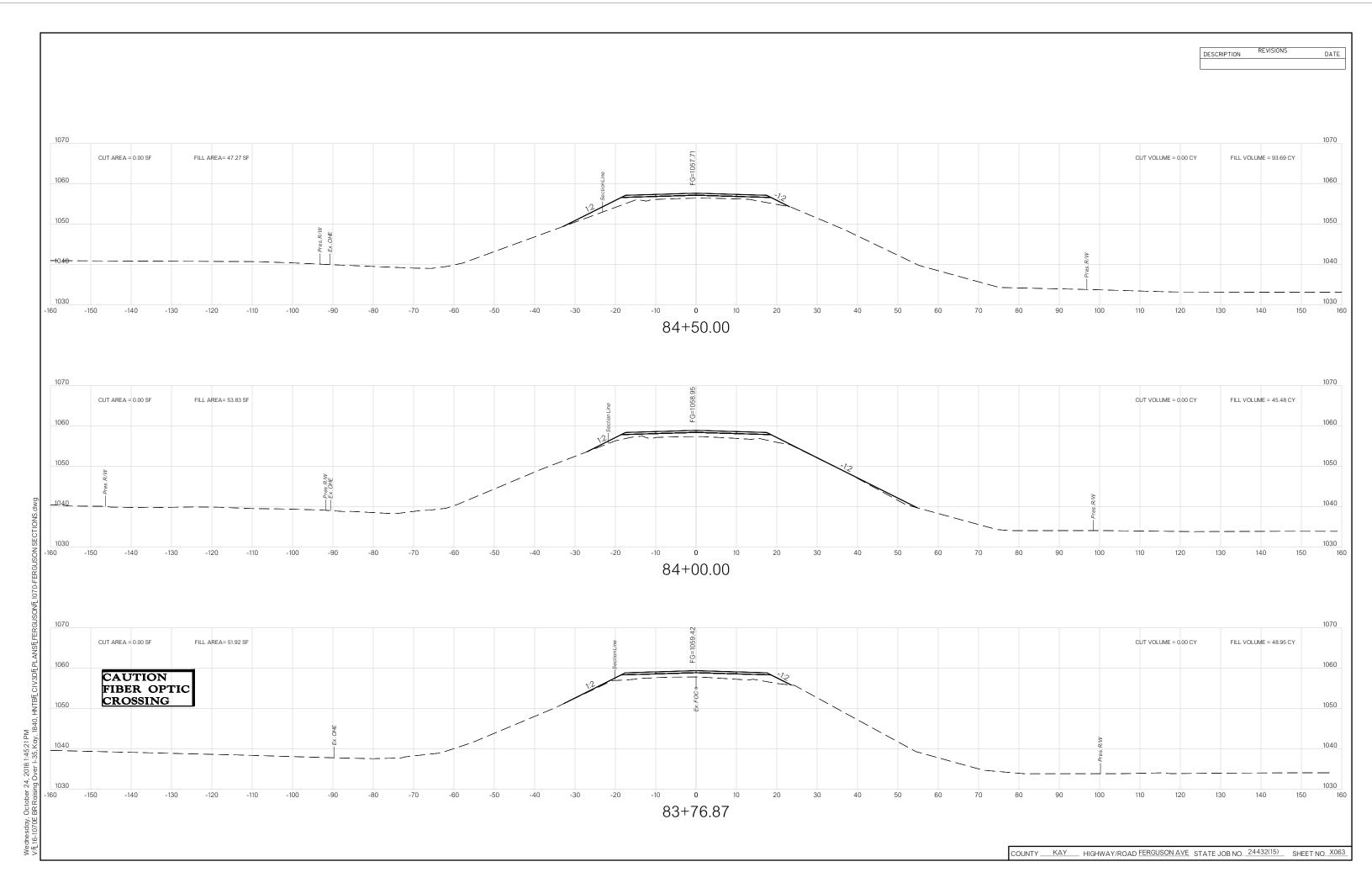


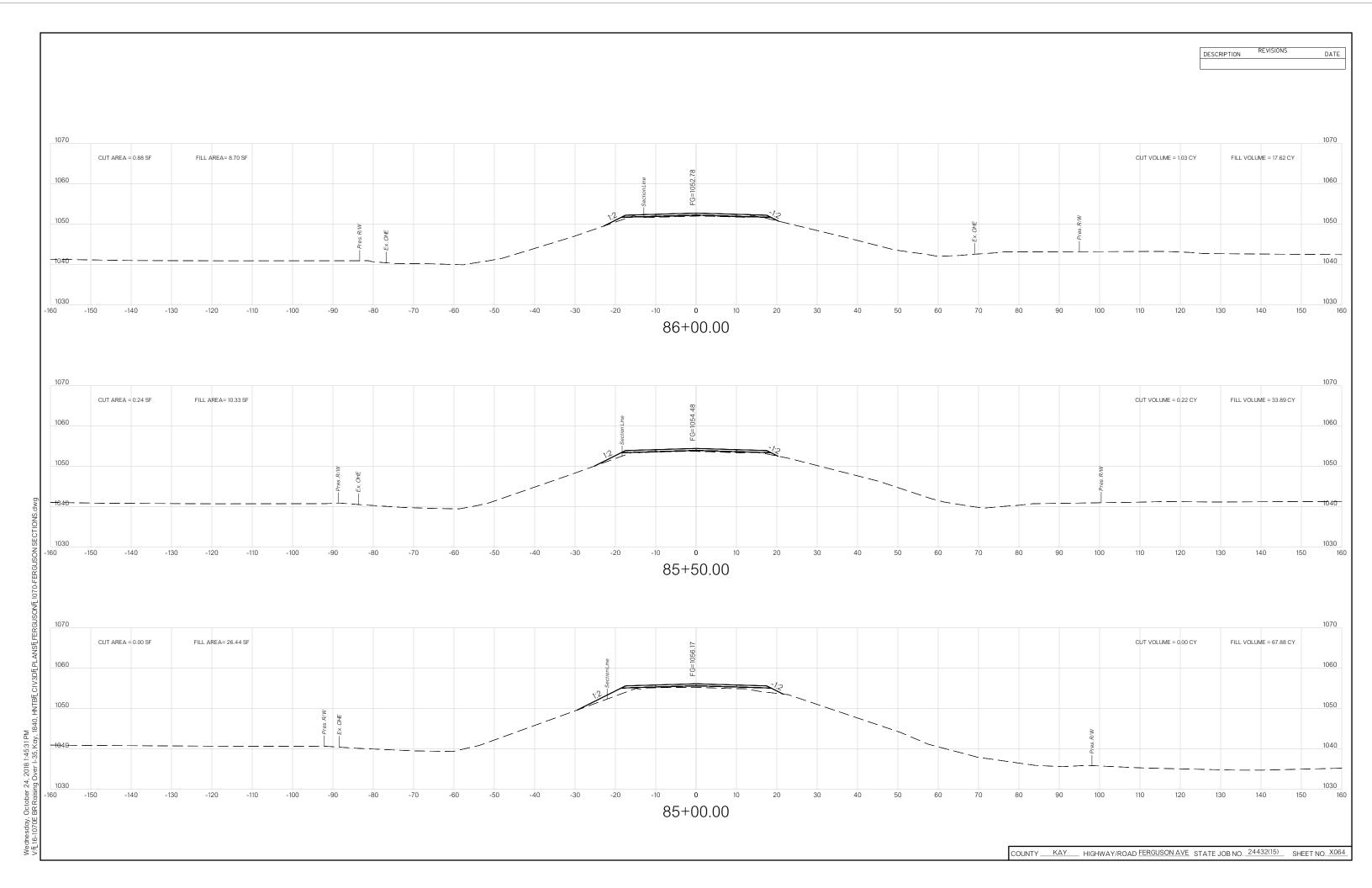


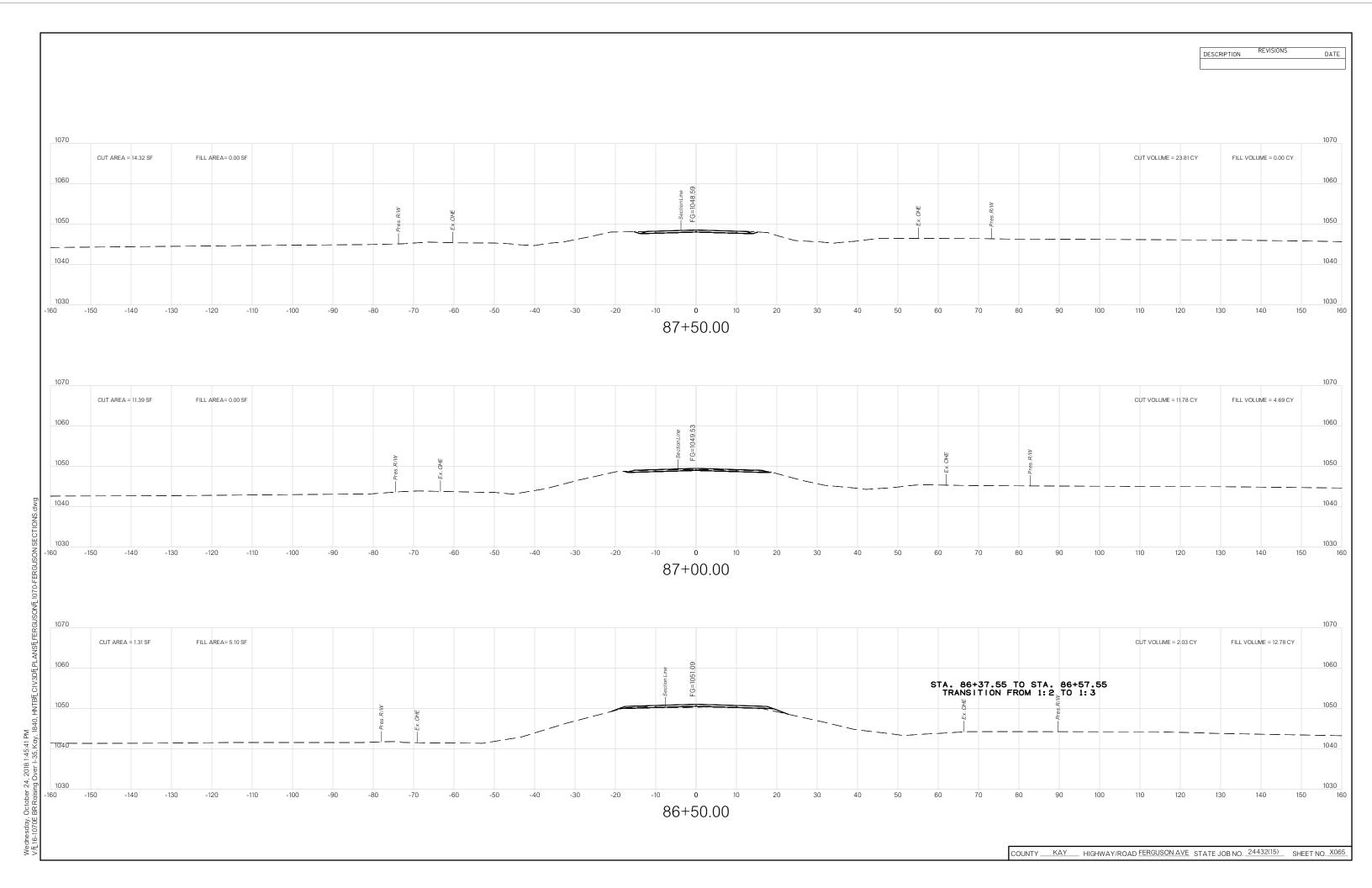


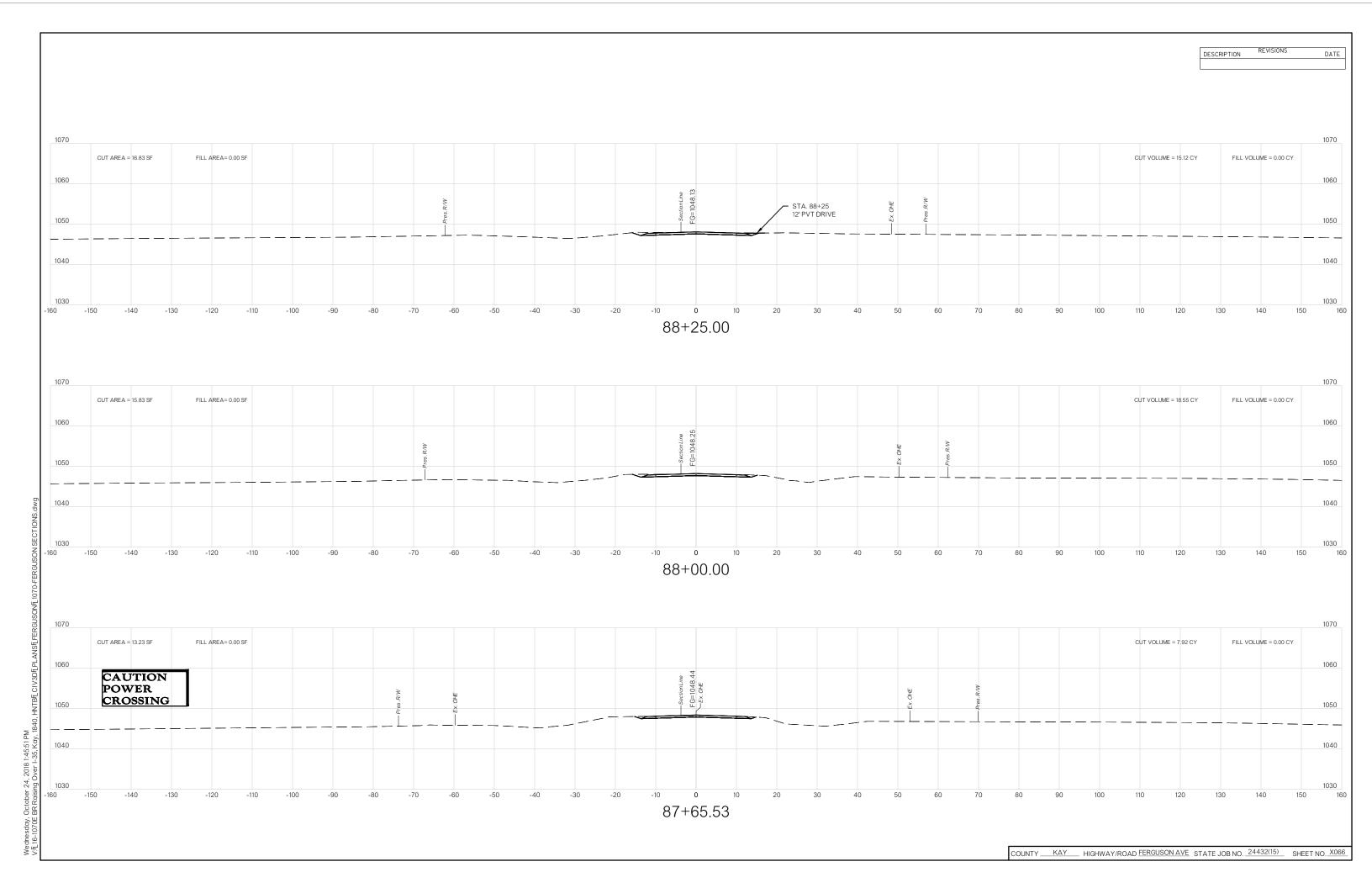
DESCRIPTION DATE 1070 1070 CUT AREA = 2.21 SF FILL AREA= 15.12 SF CUT VOLUME = 9.93 CY FILL VOLUME = 98.49 CY SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) 1060 1050 1050 1040 1040 END BRIDGE 1030 83+03.78 1070 1070 CUT AREA = 0.92 SF FILL AREA= 15.89 SF CUT VOLUME = 0.50 CY FILL VOLUME = 51.72 CY SEE BRIDGE SHEETS FOR ADDITIONAL INFORMATION FOR CONSTRUCTION OF SLOPEWALL (TYP) 1060 1060 1050 1050 BEGIN BRIDGE 1030 1030 81+32.28 1070 1070 CUT AREA = 0.43 SF FILL AREA= 123.74 SF CUT VOLUME = 0.05 CY FILL VOLUME = 8.74 CY 1060 1060 1050 1050 1040 1040 BEGIN APPROACH SLAB 1030 1030 81+12.28 COUNTY KAY HIGHWAY/ROAD FERGUSON AVE STATE JOB NO. 24432(15) SHEET NO. X061

DATE FILL AREA= 46.30 SF CUT VOLUME = 2.74 CY CUT AREA = 0.00 SF FILL VOLUME = 56.53 CY 1060 1050 1050 1040 83+50.00 CUT AREA = 6.96 SF FILL AREA= 97.71 SF FILL VOLUME = 17.40 CY 1060 1060 1050 1050 EXISTING 3'X2' RCB 1040 1040 83+28.96 1070 FILL AREA= 83.77 SF CUT VOLUME = 2.56 CY CUT AREA = 4.70 SF FILL VOLUME = 36.63 CY 1060 1060 1050 1050 1040 END APPROACH SLAB 1030 83+23.78 COUNTY KAY HIGHWAY/ROAD FERGUSON AVE STATE JOB NO. 24432(15) SHEET NO. X062







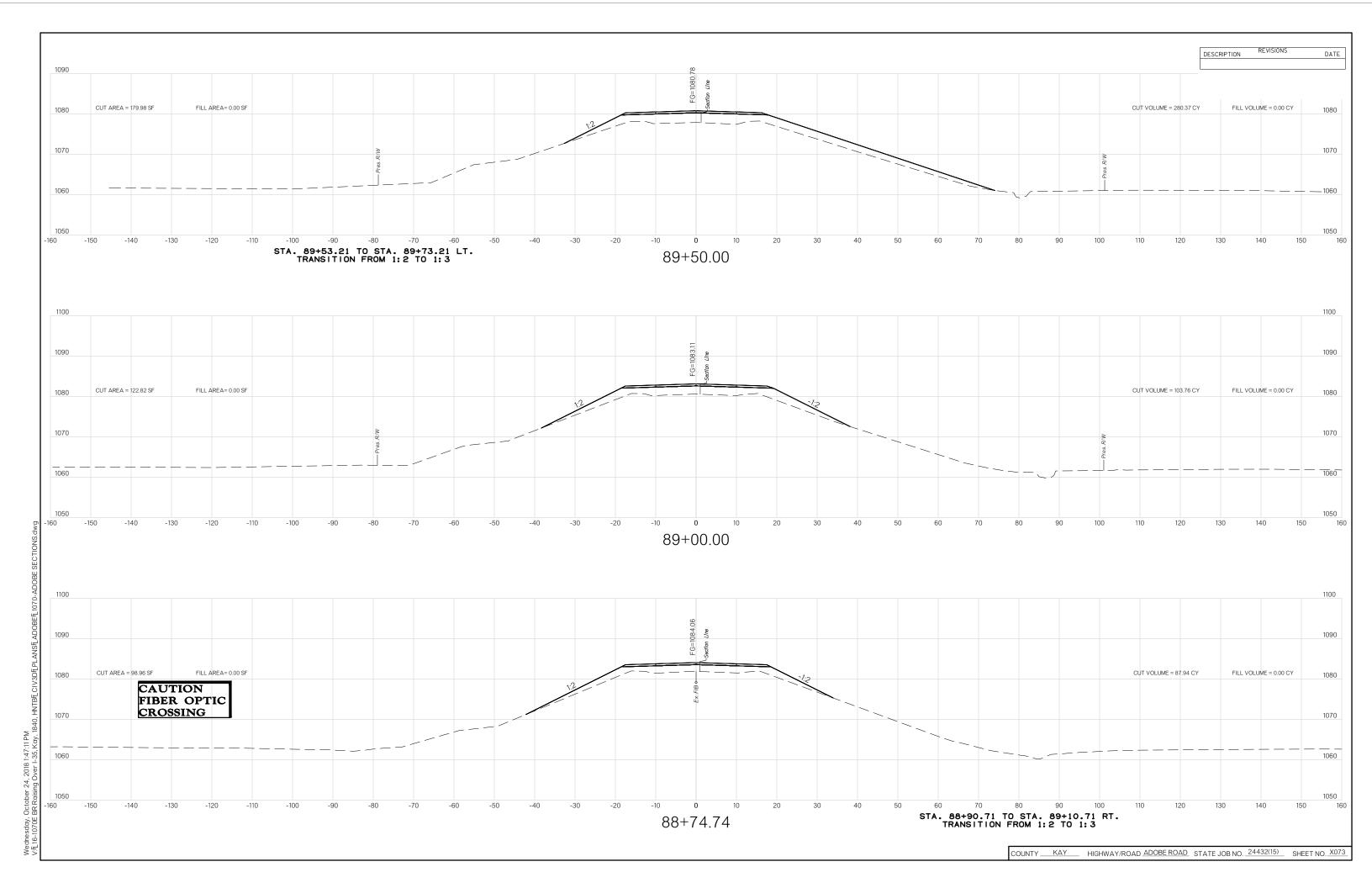


DATE FILL AREA= 0.00 SF CUT VOLUME = 7.11 CY CUT AREA = 19.50 SF FILL VOLUME = 0.00 CY 1060 1050 1050 1040 1040 END FERGUSON AVE 89+10.00 CUT AREA = 18.90 SF CUT VOLUME = 33.50 CY FILL VOLUME = 0.00 CY 1060 1060 1050 1050 1040 1040 1030 89+00.00 1070 FILL AREA= 0.00 SF CUT VOLUME = 15.79 CY CUT AREA = 17.28 SF FILL VOLUME = 0.00 CY 1060 1060 1040 1040 1030 1030 88+50.00 COUNTY KAY HIGHWAY/ROAD FERGUSON AVE STATE JOB NO. 24432(15) SHEET NO. X067 1070 1060 82+50.00 CUT VOLUME = 23.52 CY FILL VOLUME = 0.00 CY 1070 1060 1050 82+00.00 CUT AREA = 16.84 SF FILL VOLUME = 0.00 CY 1060 BEGIN ADOBE ROAD 81+60.00 COUNTY KAY HIGHWAY/ROAD ADOBE ROAD STATE JOB NO. 24432(15) SHEET NO. X068 1070 84+00.00 FILL AREA= 0.00 SF CUT VOLUME = 22.82 CY FILL VOLUME = 0.00 CY 1070 1060 83+50.00 83+00.00 COUNTY KAY HIGHWAY/ROAD ADOBE ROAD STATE JOB NO. 24432(15) SHEET NO. X069

DESCRIPTION DATE 1090 FILL VOLUME = 0.00 CY 1070 1070 STA. 85+51.67 TO STA. 85+71.67 RT. TRANSITION FROM 1:3 TO 1:2 85+50.00 CUT AREA = 86.41 SF FILL AREA= 0.00 SF CUT VOLUME = 115.85 CY FILL VOLUME = 0.00 CY 1080 1070 1070 1060 1060 STA. 84+89.17 TO STA. 85+09.17 LT. TRANSITION FROM 1:3 TO 1:2 1050 1050 85+00.00 CUT AREA = 38.71 SF FILL AREA= 0.00 SF CUT VOLUME = 59.51 CY FILL VOLUME = 0.00 CY 1080 1080 1070 1060 1060 1050 84+50.00 COUNTY KAY HIGHWAY/ROAD ADOBE ROAD STATE JOB NO. 24432(15) SHEET NO. X070

DESCRIPTION DATE 1090 SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) CUT AREA = 17.47 SF FILL AREA= 0.00 SF CUT VOLUME = 29.11 CY FILL VOLUME = 0.00 CY 1070 1070 1060 1060 BEGIN BRIDGE 86+42.94 1090 CUT AREA = 61.13 SF FILL AREA= 0.00 SF FILL VOLUME = 0.00 CY 1070 1070 1060 BEGIN APPROACH SLAB 1050 1050 86+22.94 1090 FILL VOLUME = 0.00 CY 1070 1070 1060 1050 86+00.00 COUNTY KAY HIGHWAY/ROAD ADOBE ROAD STATE JOB NO. 24432(15) SHEET NO. X071

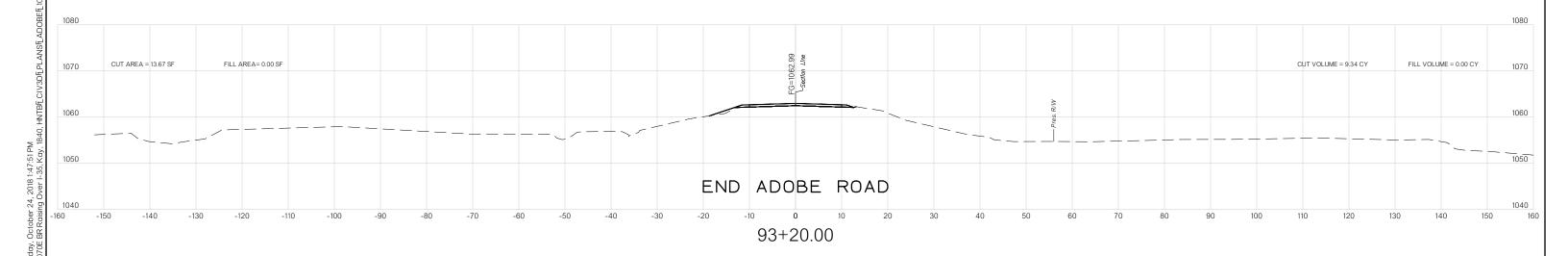
DESCRIPTION DATE 1090 CUT AREA = 93.00 SF FILL AREA= 0.00 SF CUT VOLUME = 27.40 CY FILL VOLUME = 0.00 CY 1070 1070 1060 88+50.00 1090 CUT AREA = 47.10 SF FILL AREA= 0.00 SF CUT VOLUME = 47.01 CY FILL VOLUME = 0.00 CY 1070 1070 1060 END APPROACH SLAB 1050 1050 88+39.44 1090 SEE BRIDGE SHEETS
FOR ADDITIONAL
INFORMATION FOR
CONSTRUCTION OF
SLOPEWALL (TYP) CUT AREA = 79.82 SF FILL VOLUME = 0.00 CY 1080 1070 1070 1060 END BRIDGE 1050 88+19.44 COUNTY KAY HIGHWAY/ROAD ADOBE ROAD STATE JOB NO. 24432(15) SHEET NO. X072



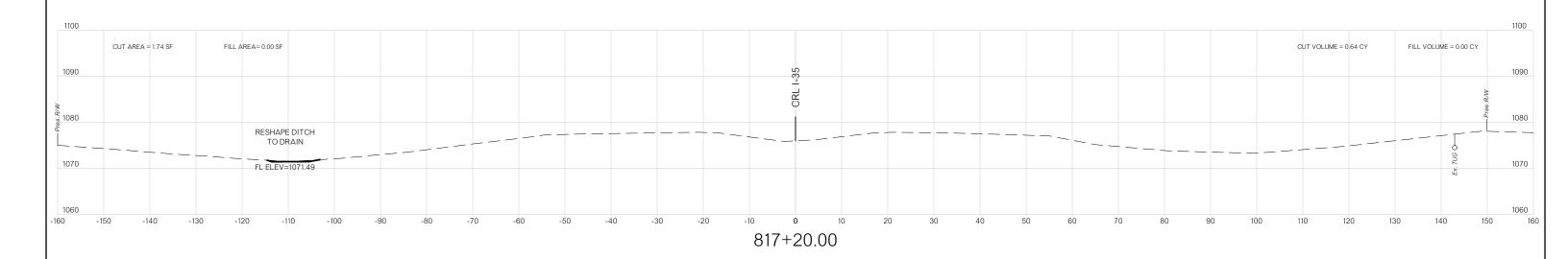
1070 91+00.00 FILL VOLUME = 0.00 CY 1070 90+50.00 90+00.00 COUNTY KAY HIGHWAY/ROAD ADOBE ROAD STATE JOB NO. 24432(15) SHEET NO. X074 1060 1050 92+50.00 CUT VOLUME = 19.74 CY 1050 1040 92+00.00 91+50.00 COUNTY KAY HIGHWAY/ROAD ADOBE ROAD STATE JOB NO. 24432(15) SHEET NO. X075 1060 1060 93+00.00 CUT AREA = 11.93 SF CUT VOLUME = 6.83 CY FILL VOLUME = 0.00 CY 1070 EXISTING 2-8'X4.2' RCB 1060 1060 1050 1040 92+98.43 CUT AREA = 9.77 SF 92+81.43 COUNTY KAY HIGHWAY/ROAD ADOBE ROAD STATE JOB NO. 24432(15) SHEET NO. X076

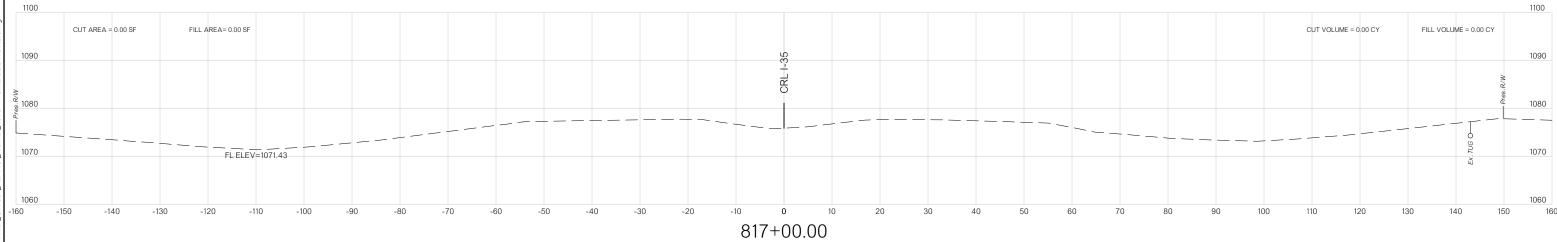
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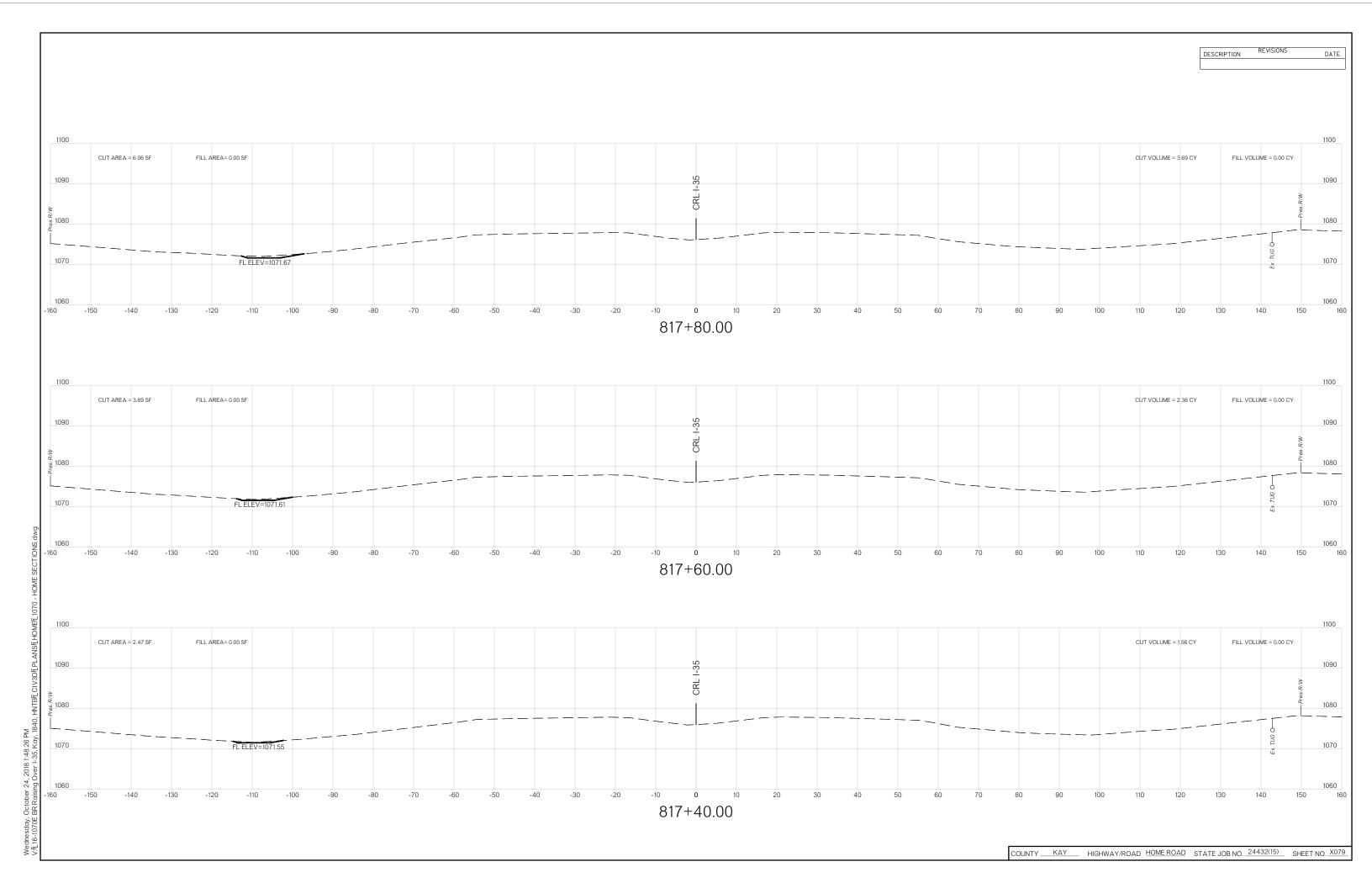
COUNTY KAY HIGHWAY/ROAD ADOBE ROAD STATE JOB NO. 24432(15) SHEET NO. X077

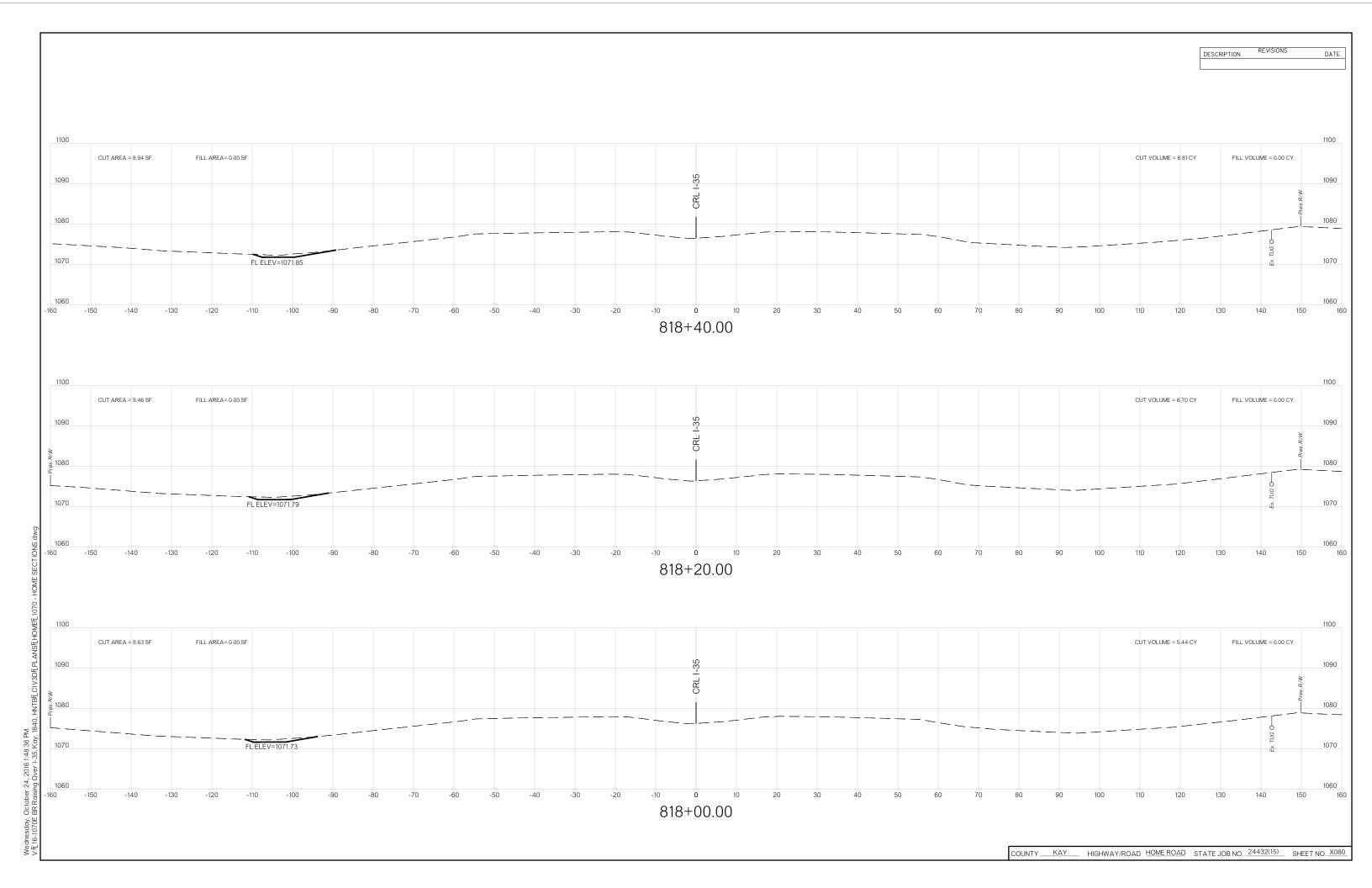


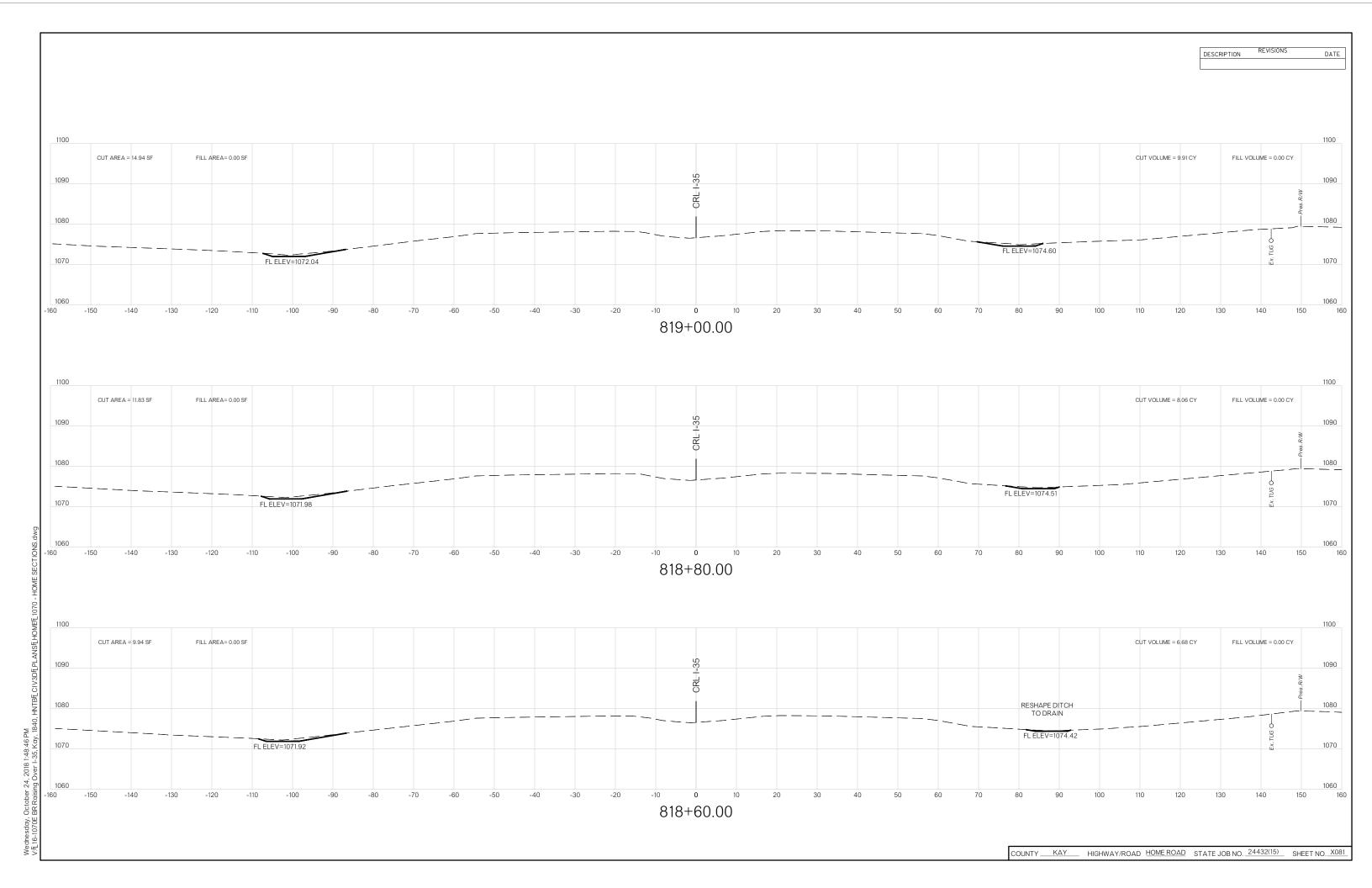
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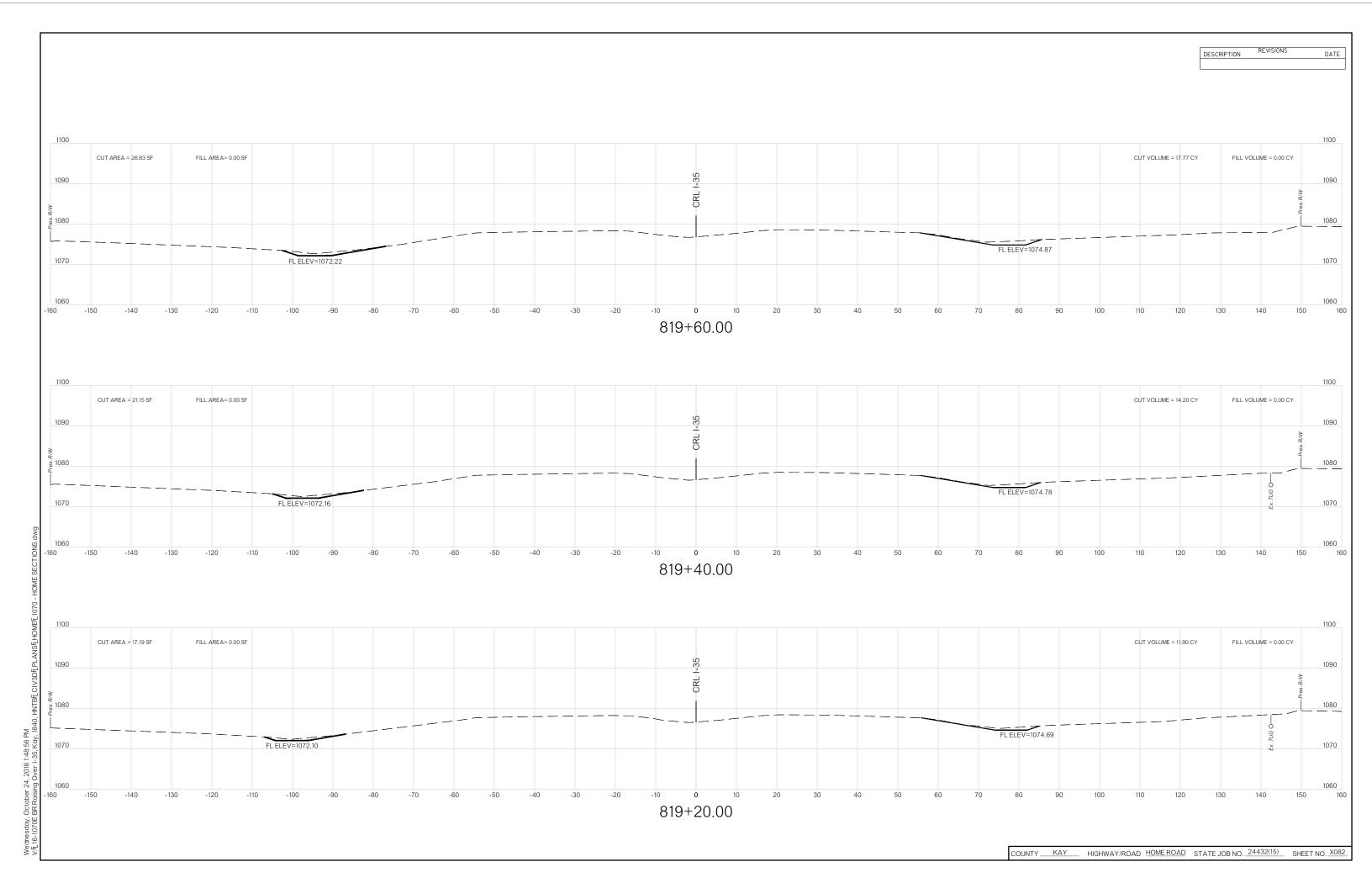


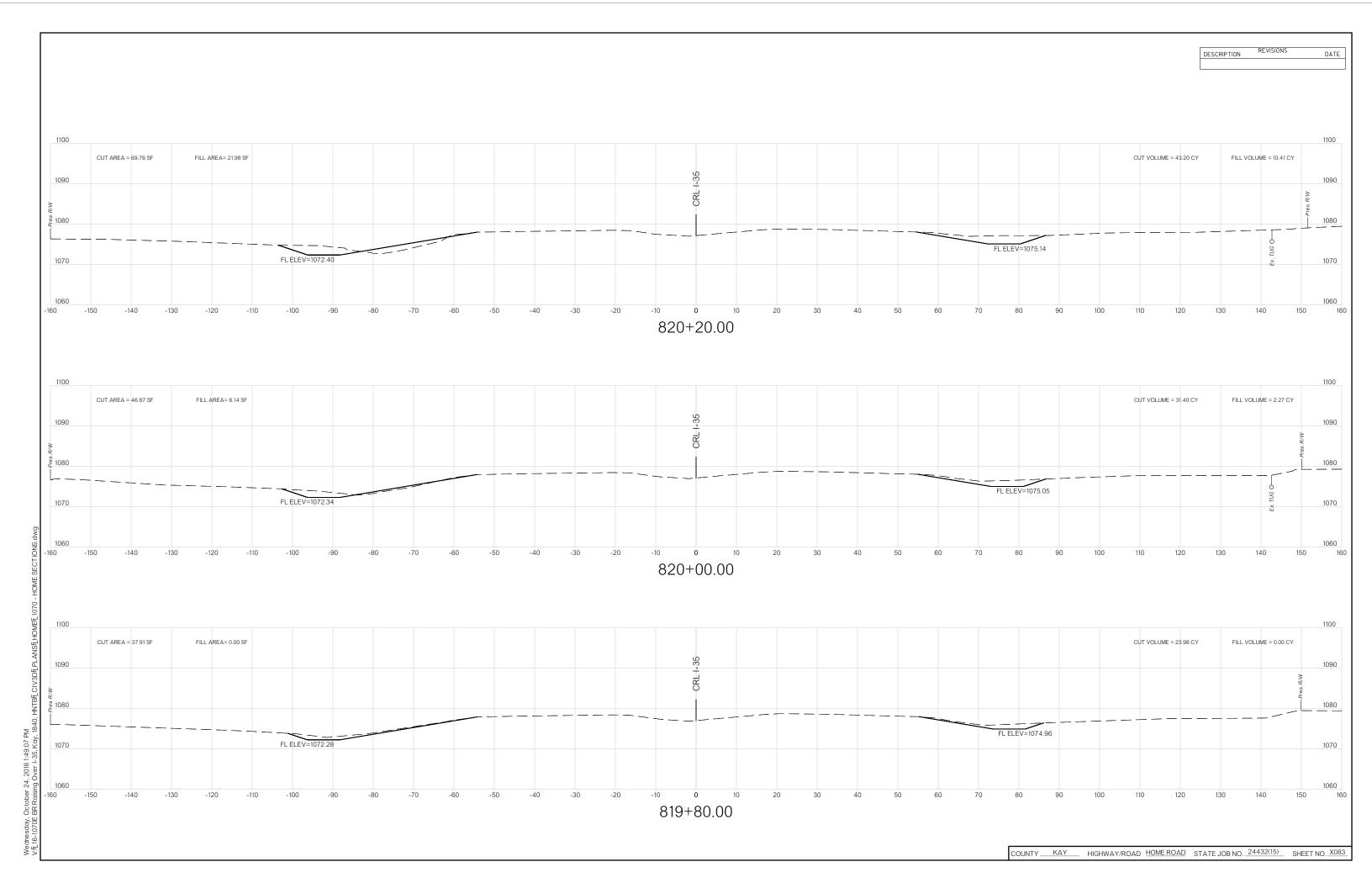


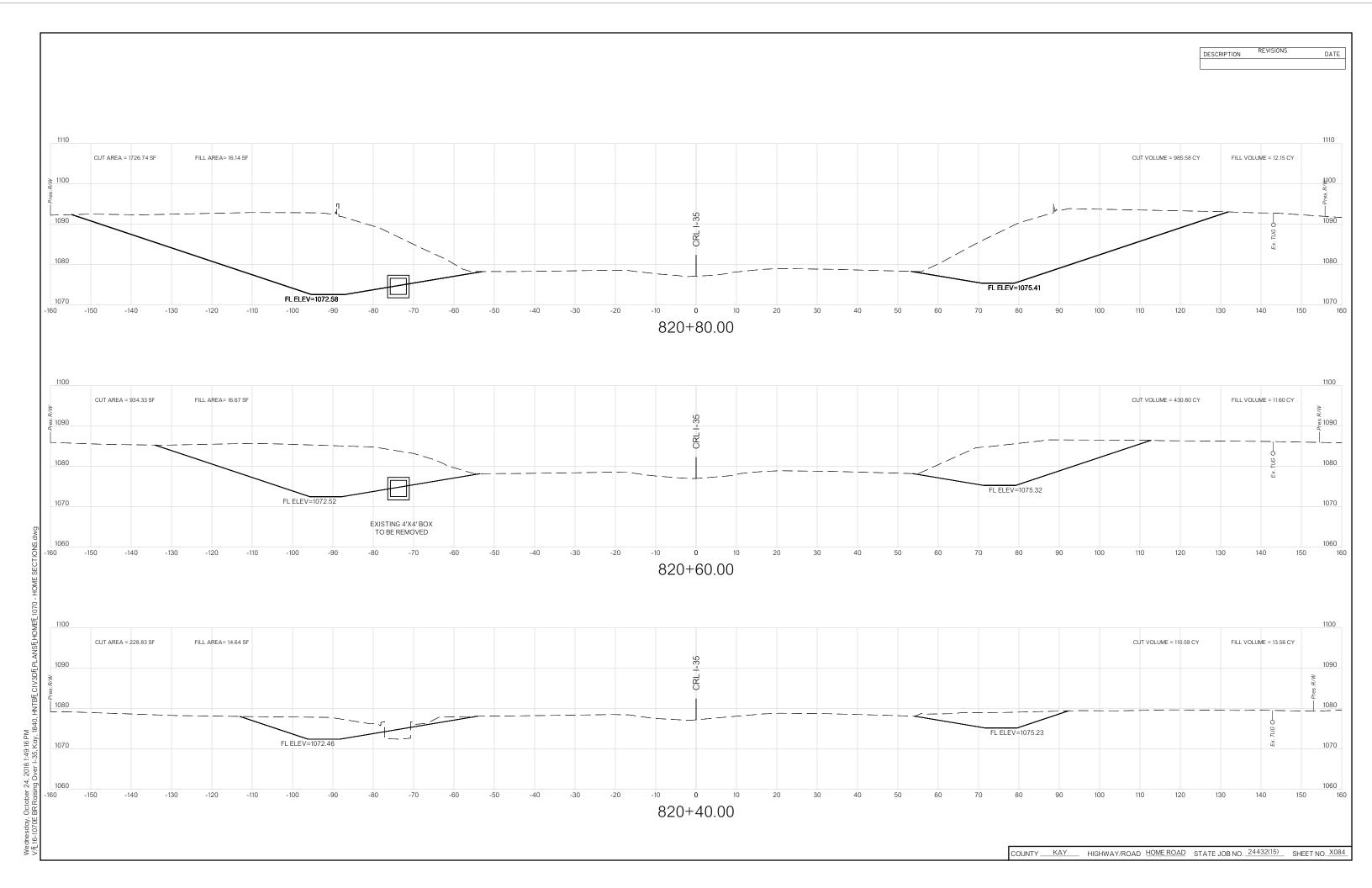


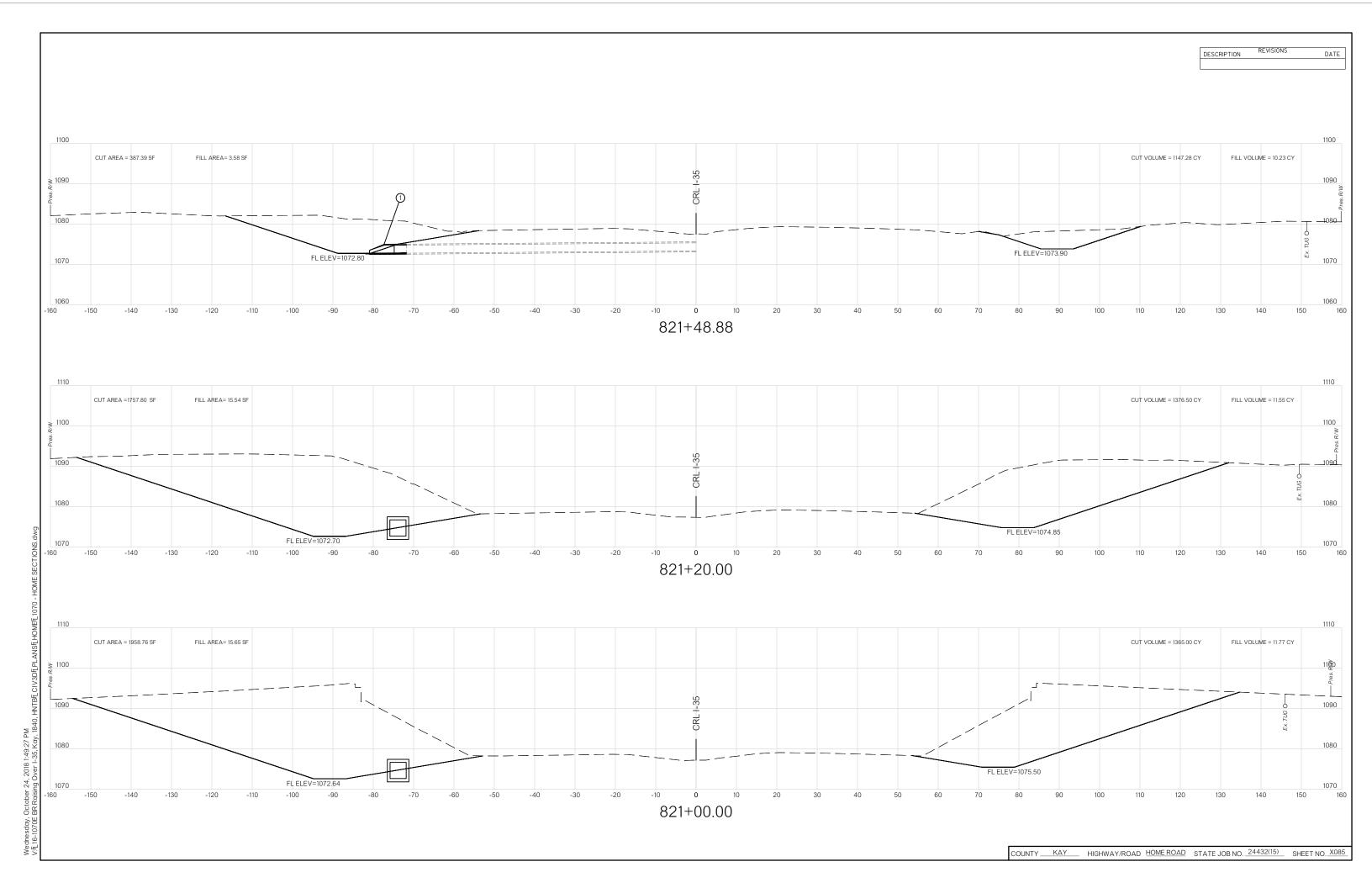


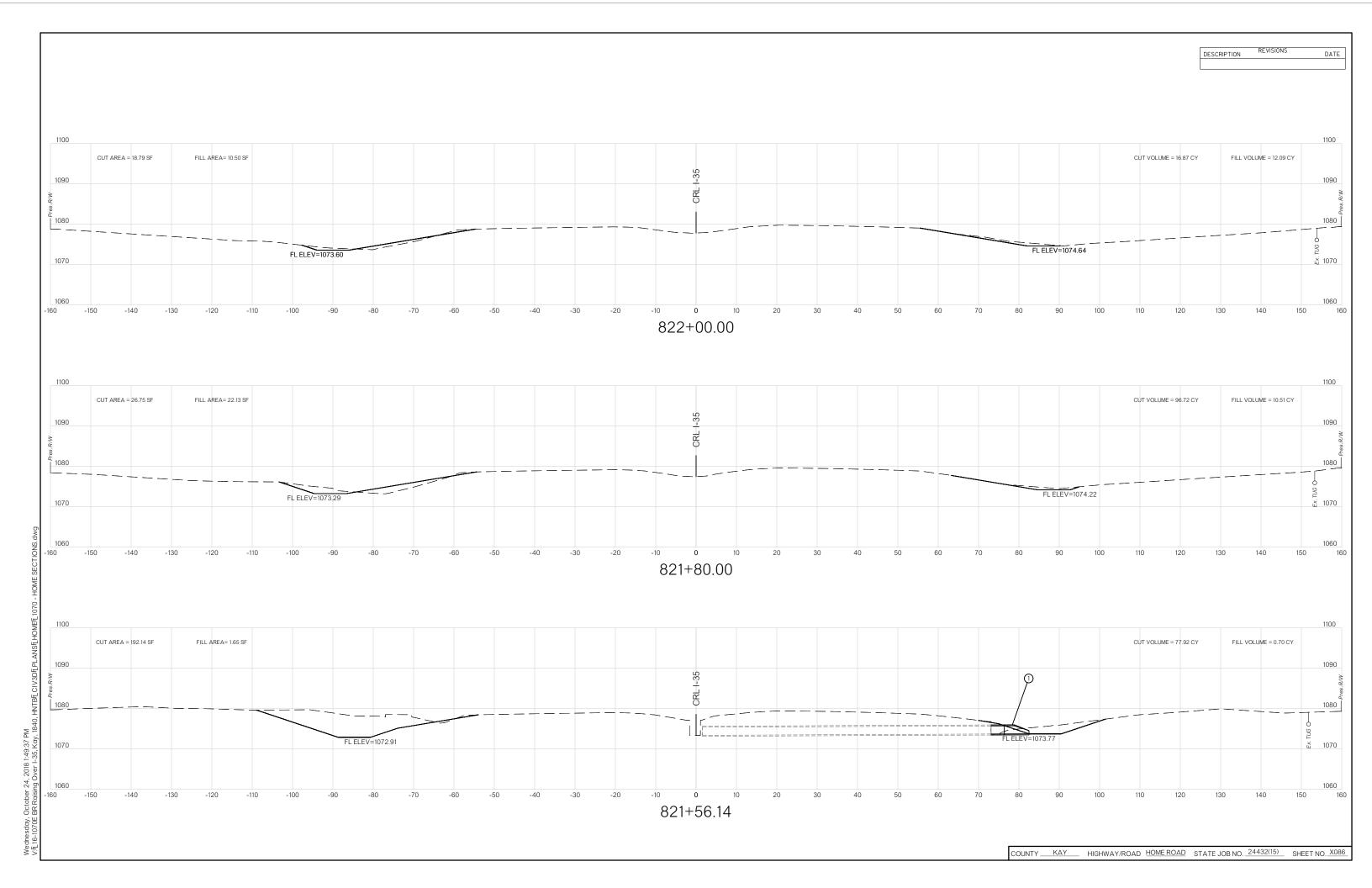


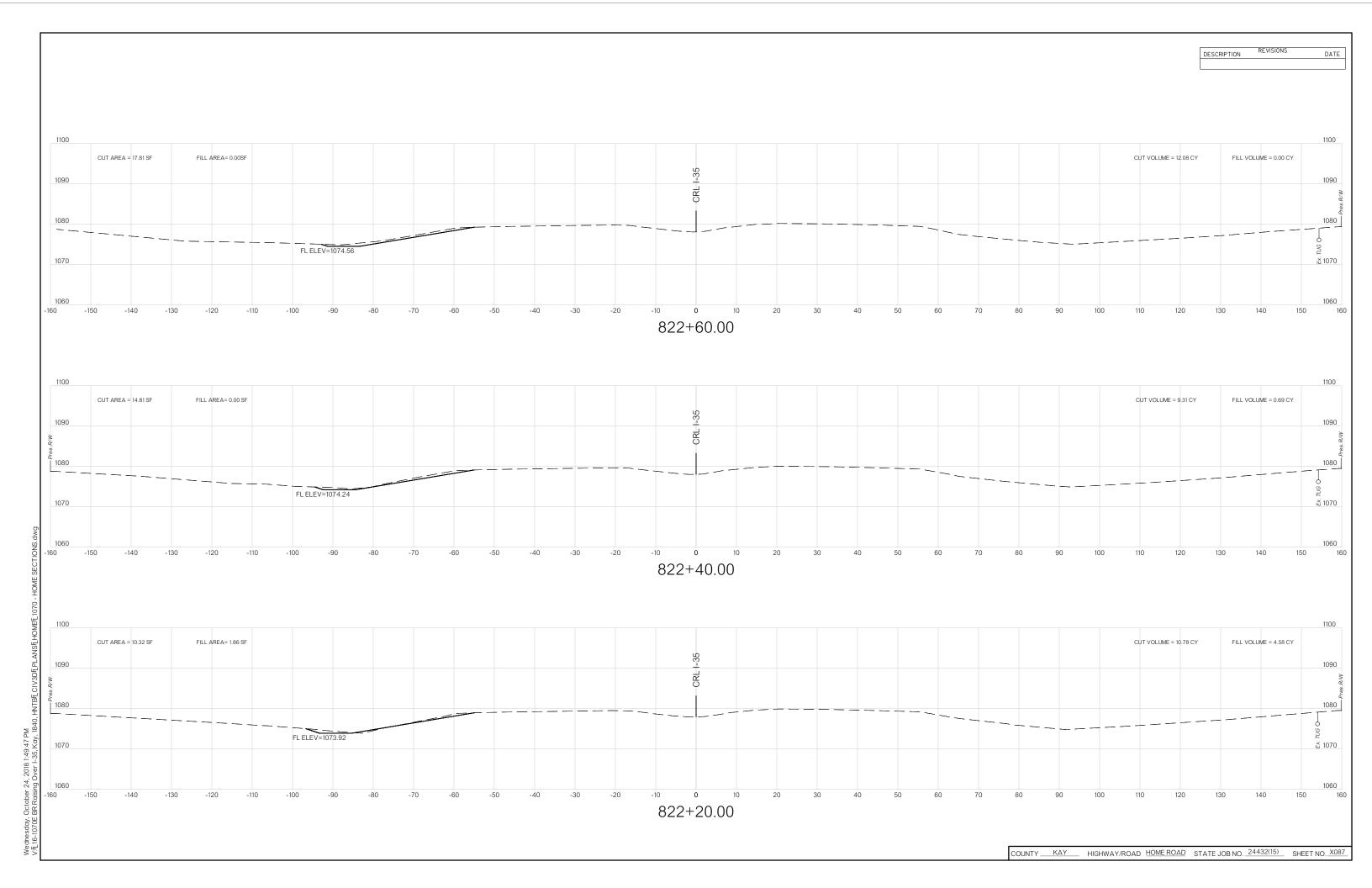




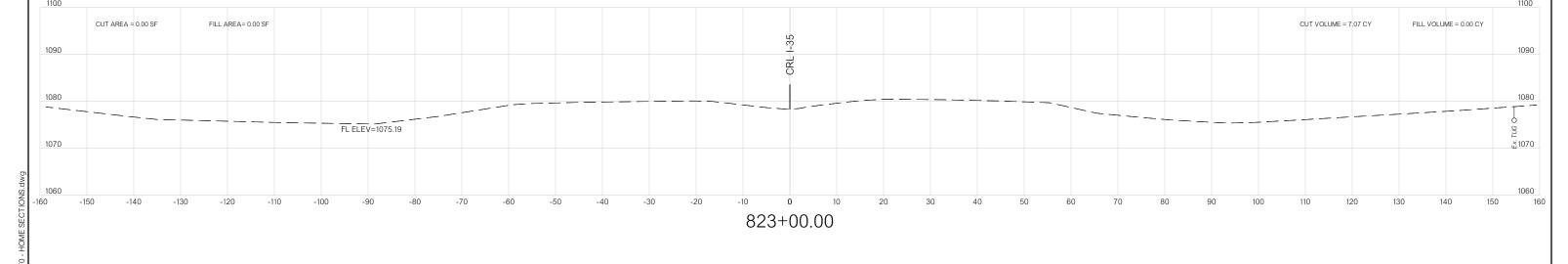


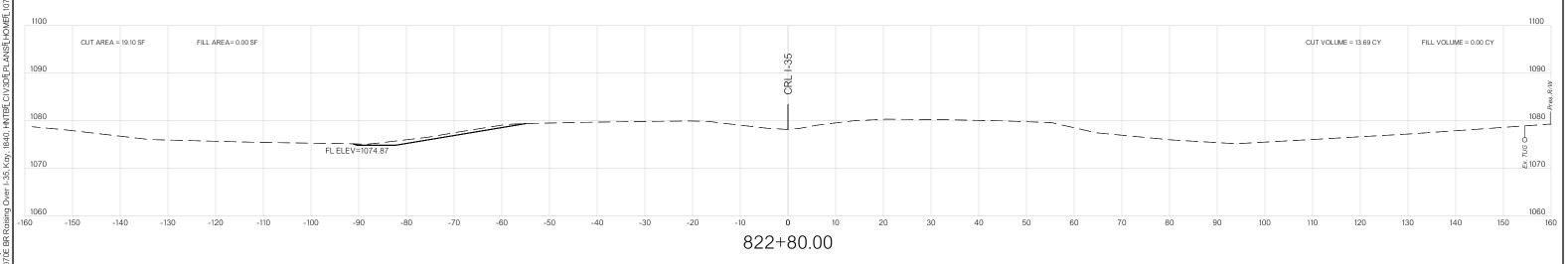






DESCRIPTION DATE





COUNTY KAY HIGHWAY/ROAD HOME ROAD STATE JOB NO. 24432(15) SHEET NO. X088

