

TRAFFIC DESIGN

PROJECT ENGINEER : T. MAAROUF
SQUAD SUPERVISOR : B. ABRAHAM

BRIDGE DESIGN

SQUAD SUPERVISOR : R. HENSLEY
SQUAD MEMBERS : T. ELDRIDGE, P. GAFFORD, B. JONES, D. NASH, M. WANZER

ENGINEERING MANAGER : P. DEFRANCO, PE
ENGINEER : C. OSBORNE, PE

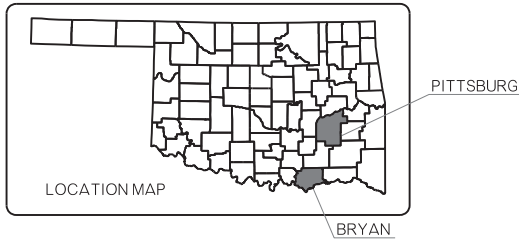
STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED
U.S. HIGHWAY

FEDERAL AID PROJECT NO. STP-NBIP(507)SS
DIVISION TWO PAINT PROJECT
JOB PIECE NO. 24333(14)

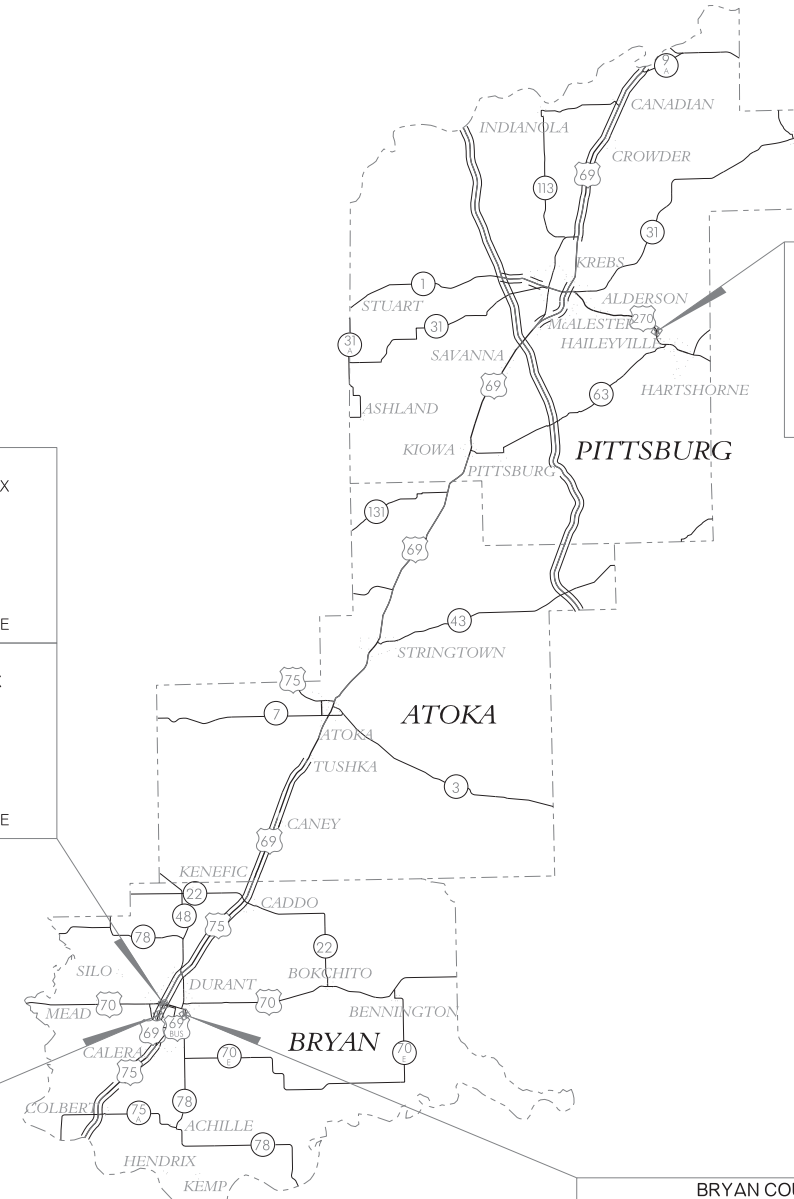
MANDATORY TIE:
THIS PROJECT IS MANDATORILY TIED
WITH JOB PIECE NO. 31698(04) AND
SHALL BE BID ACCORDINGLY.

OKLAHOMA DEPARTMENT OF TRANSPORTATION					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS		DATE	



INDEX OF SHEETS

SHEET NUMBER	SHEET DESCRIPTION
0001	TITLE SHEET
AB01-AB02	GENERAL NOTES AND SUMMARY OF PAY QUANTITIES (BRIDGE)
AT01	SUMMARY OF PAY QUANTITIES & NOTES (TRAFFIC)
B001	GENERAL PLAN AND TYPICAL SECTION (BRIDGE "A")
B002	GENERAL PLAN AND TYPICAL SECTION (BRIDGE "B")
B003	GENERAL PLAN AND TYPICAL SECTION (BRIDGE "C")
B004	GENERAL PLAN AND TYPICAL SECTION (BRIDGE "D")
B005	GENERAL PLAN AND TYPICAL SECTION (BRIDGE "E")
B006	GENERAL PLAN AND TYPICAL SECTION (BRIDGE "F")
T001	TRAFFIC CONTROL DETAIL ADVANCE WARNING (OVER BRIDGES "A", "B", "C" & "D")
T002	TRAFFIC CONTROL DETAIL (BRIDGES "A", "B", "C" & "D")
T003	TRAFFIC CONTROL DETAIL (UNDER BRIDGES "C" & "D") (OVER BRIDGES "E" & "F")



BRYAN COUNTY
BRIDGE "A" - LOCATION NO. 0703-0388WX
CONTROL SECTION NO. 69-07-03
NBI NO. 17506
FACILITY CARRIED: US-69 SB
FEATURES INTERSECTED: US-70 UNDER
LOCATION: JCT US-70 & US-69
SECTION: 30 TOWNSHIP: T6S RANGE: R9E

BRYAN COUNTY
BRIDGE "B" - LOCATION NO. 0703-0388EX
CONTROL SECTION NO. 69-07-03
NBI NO. 17507
FACILITY CARRIED: US-69 NB
FEATURES INTERSECTED: US-70 UNDER
LOCATION: JCT US-70 & US-69
SECTION: 30 TOWNSHIP: T6S RANGE: R9E

BRYAN COUNTY
BRIDGE "C" - LOCATION NO. 0703-0377WX
CONTROL SECTION NO. 69-07-03
NBI NO. 17534
FACILITY CARRIED: US-69 SB
FEATURES INTERSECTED: W ARKANSAS ST & RR UNDER
LOCATION: 3.77 N JCT US-69 BUS
SECTION: 31 TOWNSHIP: T6S RANGE: R9E

BRYAN COUNTY
BRIDGE "D" - LOCATION NO. 0703-0377EX
CONTROL SECTION NO. 69-07-03
NBI NO. 17535
FACILITY CARRIED: US-69 NB
FEATURES INTERSECTED: W ARKANSAS ST & RR UNDER
LOCATION: 3.77 N JCT US-69 BUS
SECTION: 31 TOWNSHIP: T6S RANGE: R9E

PITTSBURG COUNTY
BRIDGE "E" - LOCATION NO. 6108-1136X
CONTROL SECTION NO. 270-61-08
NBI NO. 16591
FACILITY CARRIED: US-270
FEATURES INTERSECTED: A OK R.R. UNDER
LOCATION: 11.3 E JCT US-69B
SECTION: 27 TOWNSHIP: T5N RANGE: R16E

BRYAN COUNTY
BRIDGE "F" - LOCATION NO. 0720-2637X
CONTROL SECTION NO. 78-07-20
NBI NO. 09502
FACILITY CARRIED: SH-78
FEATURES INTERSECTED: MINERAL BAYOU CREEK
LOCATION: 26.37 N & W TX S/L
SECTION: 33 TOWNSHIP: T6S RANGE: R9E

STANDARDS TO BE INCLUDED

- TRAFFIC**
- TCS1-1-01
 - TCS2-1-00
 - TCS3-1-01
 - TCS4-1-01
 - TCS5-1-00
 - TCS6-1-02
 - TCS7-1-02
 - TCS8-1-00
 - TCS9-1-01
 - TCS10-1-00
 - TCS11-1-01
 - TCS14-1-00
 - TCS18-1-01
 - TCS19-1-01
 - TCS20-1-00
 - TCS21-1-02

CONVENTIONAL SYMBOLS

- PROPOSED ROAD
- RAILROADS
- RANGE & TOWNSHIP SECTION LINES
- QUARTER SECTION LINES
- FENCES
- GROUND LINE
- EXISTING ROADS
- BASE LINE
- GRADE LINES
- TELEPHONE & TELEGRAPH
- POWER LINES
- BUILDINGS
- OILWELL
- DRAINAGE STRUCTURES - IN PLACE
- DRAINAGE STRUCTURES - NEW
- RIGHT-OF-WAY LINES - EXISTING
- RIGHT-OF-WAY LINES - NEW
- CONTROLLED ACCESS
- RIGHT-OF-WAY FENCE

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

PREPARED BY:
OKLAHOMA DEPARTMENT OF TRANSPORTATION
BRIDGE DESIGN DIVISION
Patty F. DeFranco
PATTY F. DEFRANCO
20916
OKLAHOMA

DATE: 6/17/16

OKLAHOMA DEPARTMENT OF TRANSPORTATION

DATE APPROVED: _____
BY: _____
CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

DATE APPROVED: _____
BY: _____
DIVISION ADMINISTRATOR

SWO: _____ PROJECT NO. STP-NBIP(507)SS
COUNTY: BRYAN & PITTSBURG HIGHWAY: MULTIPLE SHEET NO. 0001

P.E. NO. 24333(01)

REVISIONS		
REV. NO.	DESCRIPTION	DATE

GENERAL NOTES

SPECIFICATIONS:

COMPLY WITH THE REQUIREMENTS OF THE 2009 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, EXCEPT AS MODIFIED BY THE PLANS AND SPECIAL PROVISIONS.

PLANS:

CONSTRUCTION PLANS FOR THE EXISTING STRUCTURES, MAY BE OBTAINED FROM THE REPRODUCTIONS BRANCH OF THE OKLAHOMA DEPARTMENT OF TRANSPORTATION.

REPRODUCTION BRANCH
OKLAHOMA DEPARTMENT OF TRANSPORTATION
200 NE 21ST STREET
OKLAHOMA CITY, OKLAHOMA 73105

ASK FOR:
BRIDGE "A": F-219(17), US-69 SB OVER US-70 IN BRYAN COUNTY
BRIDGE "B": F-219(17), US-69 NB OVER US-70 IN BRYAN COUNTY
BRIDGE "C": F-219(17), US-69 SB OVER W ARKANSAS ST & R.R. IN BRYAN COUNTY
BRIDGE "D": F-219(17), US-69 NB OVER W ARKANSAS ST & R.R. IN BRYAN COUNTY
BRIDGE "E": FAP NO. F-94(7) US-270 OVER A OK R.R. IN PITTSBURG COUNTY
BRIDGE "F": F.A.G.M. 309-A(1)BR, SH-78 OVER MINERAL BAYOU CREEK IN BRYAN COUNTY

VERIFICATION OF EXISTING CONDITIONS:

ALL DIMENSIONS OF THE EXISTING BRIDGE COMPONENTS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS NECESSARY TO COMPLETE THE PROJECT AS DESCRIBED AND SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY THEREOF.

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

EXPOSURE OF DETERIORATED STRUCTURAL STEEL:

IF ANY DETERIORATED STRUCTURAL STEEL IS EXPOSED DURING SAND BLASTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER, WHO IN TURN SHALL NOTIFY THE BRIDGE ENGINEER AS TO THE EXTENT OF THE DAMAGE. THE BRIDGE ENGINEER SHALL DETERMINE IF ANY REPAIRS ARE NECESSARY AND IF SO, WHAT METHOD OF REPAIR SHALL BE USED.

REMOVED MATERIAL:

ALL MATERIAL AND DEBRIS REMOVED DURING THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

CLEANING BRIDGE SEATS AND PIER CAPS:

ALL BRIDGE SEATS AND PIER CAPS SHALL BE SWEEPED CLEAN OF ALL DEBRIS. ALL COSTS CLEANING THE BRIDGE SEATS AND PIER CAPS SHALL BE PAID FOR IN OTHER ITEMS OF WORK.

LANE CLOSURE:

THE ENGINEER RESERVES THE RIGHT TO PROHIBIT LANE CLOSURES DURING HOLIDAYS OR SPECIAL EVENTS.

PAY ITEM NOTES

(1) PAINT REMOVAL AND PAINTING STRUCTURAL STEEL: (BRIDGES "A", "B", "C", "D", "E" & "F")

ALL STRUCTURAL STEEL OF THE BRIDGES, INCLUDING BEAMS, DIAPHRAGM COMPONENTS, CONNECTION ASSEMBLIES, BEARING ASSEMBLIES, DRAIN PIPES, AND ANY STEEL USED FOR REPAIRS SHALL BE CLEANED AND PAINTED. ALL STRUCTURAL STEEL MENTIONED ABOVE AND ANY STEEL USED FOR REPAIRS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH SECTION 512 OF THE STANDARD SPECIFICATION USING CATEGORY "E" APPLICATION. A QP-2 WILL BE REQUIRED FOR THIS PROJECT. ALTERNATIVELY, THE CONTRACTOR MAY HAVE PERSONNEL WITH SSPCC-3 SUPERVISOR/COMPETENT PERSON TRAINING FOR DELEADING OF INDUSTRIAL STRUCTURES. IF THE CONTRACTOR ELECTS TO USE THE C-3 TRAINING, THEY MUST PROVIDE A CURRENT CERTIFICATE SHOWING SUCCESSFUL COMPLETION OF THE C-3 TRAINING. THE CERTIFICATE MUST BE PROVIDED WITH THEIR BID PROPOSAL OR NOT LATER THAN THE WEDNESDAY FOLLOWING THE BID LETTING. IN ADDITION, THE SUPERVISOR WITH THE C-3 LEAD TRAINING WILL BE REQUIRED TO BE PRESENT AT THE PROJECT SITE THE ENTIRE TIME THAT DELEADING OPERATIONS ARE TAKING PLACE ON THE PROJECT SITE. THE EXISTING PAINT SYSTEM CONTAINS LEAD PAINT.

THE WEIGHT OF STRUCTURAL STEEL TO BE PAINTED FOR THE BRIDGES WAS ESTIMATED FROM THE EXISTING BRIDGE PLANS AND OBSOLETE STANDARDS LISTED THEREIN. THE STATE ASSUMES NO RESPONSIBILITY FOR THE ACCURACY THEREOF. NO COMPENSATION WILL BE ALLOWED FOR ERRORS IN THE ESTIMATED WEIGHT. THE ESTIMATED WEIGHT. THE ESTIMATED WEIGHTS OF STRUCTURAL STEEL FOR THE BRIDGES ARE:

- BRIDGE "A": 157,900 POUNDS (APPROXIMATELY 13,982 S.F.)
- BRIDGE "B": 157,900 POUNDS (APPROXIMATELY 13,982 S.F.)
- BRIDGE "C": 126,390 POUNDS (APPROXIMATELY 9,402 S.F.)
- BRIDGE "D": 126,390 POUNDS (APPROXIMATELY 9,402 S.F.)
- BRIDGE "E": 175,800 POUNDS (APPROXIMATELY 10,280 S.F.)
- BRIDGE "F": 160,238 POUNDS (APPROXIMATELY 11,127 S.F.)

ESTIMATED WEIGHTS AND AREAS ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE. ACTUAL QUANTITIES MAY VARY.

ALL COSTS INCLUDING LABOR, EQUIPMENT, MATERIAL, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK DESCRIBED ABOVE AND AS SHOWN IN THE PLANS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "PAINTING EXISTING STRUCTURE" AND THE LUMP SUM PRICE BID FOR "COLLECTION AND HANDLING OF WASTE".

(2) CLEANING AND PAINTING BRIDGE METAL RAIL: (BRIDGE "E")

PAY ITEM "CLEANING AND PAINTING BRIDGE METAL RAIL" CONSISTS OF CLEANING AND PAINTING OF THE BRIDGE METAL TRAFFIC RAILS AS SPECIFIED IN SECTION 512 OF THE STANDARD SPECIFICATIONS FOR A CATEGORY "E" APPLICATION.

THE PAINT SYSTEM AND APPLICATION THEROF SHALL BE IN ACCORDANCE WITH SECTION 730 "PAINT FOR STRUCTURAL STEEL" OF THE STANDARD SPECIFICATIONS.

COLLECTION AND HANDLING OF WASTE FROM THE METAL TRAFFIC RAILS SHALL BE IN ACCORDANCE WITH SECTION 512 OF THE STANDARD SPECIFICATION FOR HAZARDOUS AND NON-HAZARDOUS WASTE.

ALL COSTS OF CLEANING AND PAINTING OF METAL TRAFFIC RAILS INCLUDING LABOR, MATERIAL, COLLECTION AND HANDLING OF WASTE AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF "CLEANING AND PAINTING BRIDGE METAL RAIL".

ARKANSAS-OKLAHOMA RAILROAD COMPANY AND KIAMICHI RAILROAD COMPANY NOTES

NOTIFICATION OF WORK:

THE CONTRACTOR IS REQUIRED TO GIVE THE RAILROAD COMPANY AT LEAST 10 WORKING DAYS ADVANCE NOTICE, IN WRITING, BEFORE ANY WORK IS STARTED ON THE SITE. TO AVOID HAZARDS, THE RAILROAD COMPANY MAY HAVE A REPRESENTATIVE PRESENT, IF DEEMED NECESSARY, FOR THE PURPOSE OF INSPECTION AND THE ISSUANCE OF ANY APPROPRIATE INSTRUCTIONS FOR RAILROAD OPERATIONS DURING THE FOLLOWING BRIDGE PAINTING PROJECTS:

ON A PORTION OF US-270/SH-1 IN PITTSBURG COUNTY AS IT RELATES TO THE ARKANSAS-OKLAHOMA RAILROAD COMPANY'S PROPERTY. (AARDOT 600 246E, MILEPOST 354.59)

THE CONTRACTOR SHALL NOTIFY:

MR. HARVEY HUNTER
ROADMASTER
AOK RAILROAD COMPANY
P.O. BOX 366
WILBURTON, OKLAHOMA 74578
PHONE: 918-465-0299
EMAIL:

MS. HEATHER WILLIAMS
GENERAL MANAGER
AOK RAILROAD COMPANY
P.O. BOX 366
WILBURTON, OKLAHOMA 74578
PHONE: 918-465-0299
EMAIL: HEATHER@AOKRR.COM

ON A PORTION OF US-69/US-75 IN BRYAN COUNTY AS IT RELATES TO THE KIAMICHI RAILROAD COMPANY'S PROPERTY. (AARDOT 671 539C, MILEPOST 631.20)

THE CONTRACTOR SHALL NOTIFY:

MR. TYREL SLATE
ROADMASTER
KIAMICHI RAILROAD COMPANY
800 MARTIN LUTHER KING BLVD.
HUGO, OK 74743
PHONE: 580-317-5953
EMAIL: TYREL.SLATE@GWRR.COM

MR. SETH RUTZ
GENERAL MANAGER
KIAMICHI RAILROAD COMPANY
800 MARTIN LUTHER KING BLVD.
HUGO, OKLAHOMA 74743
PHONE: 580-916-7601
EMAIL: SETH.RUTZ@GWRR.COM

FLAGGING AND INSURANCE:

FLAGGING AND INSURANCE SHALL BE PROVIDED AS SPECIFIED IN SECTION 107 OF THE STANDARD SPECIFICATIONS AND IN THE SPECIAL PROVISIONS FOR RAILROAD FLAGGING (SEE PROPOSAL FOR SPECIAL PROVISIONS) AND WHAT IS STATED IN THE ARKANSAS-OKLAHOMA RAILROAD COMPANY'S RIGHT OF ENTRY AGREEMENT AND/OR IN THE KIAMICHI COMPANY'S CONTRACTOR'S OCCUPANCY/ACCESS AGREEMENT. THE RAILROAD COMPANY, AT THEIR DISCRETION, SHALL PROVIDE FLAGGING FOR THE RAILROAD DURING CONSTRUCTION OPERATIONS.

THE CONTRACTOR IS REQUIRED TO REIMBURSE THE RAILROAD COMPANY FOR FLAGGING SERVICES PROVIDED.

THE CONTRACTOR SHALL ALSO FURNISH SATISFACTORY EVIDENCE TO THE STATE OF OKLAHOMA THAT THEY HAVE PROVIDED INSURANCE OF THE KINDS AND AMOUNTS AS SPECIFIED IN THE SPECIAL PROVISIONS FOR RAILROAD INSURANCE AND IN THE ARKANSAS-OKLAHOMA RAILROAD COMPANY'S RIGHT OF ENTRY AGREEMENT AND/OR IN THE KIAMICHI COMPANY'S CONTRACTOR'S OCCUPANCY/ACCESS AGREEMENT.

THE CONTRACTOR WILL BE REQUIRED TO ENTER INTO A RIGHT OF ENTRY AGREEMENT WITH THE ARKANSAS-OKLAHOMA RAILROAD COMPANY AND/OR A CONTRACTOR'S OCCUPANCY/ACCESS AGREEMENT WITH THE KIAMICHI RAILROAD COMPANY BEFORE THEY WILL BE ALLOWED ON THE RAILROAD'S RIGHT-OF-WAY.

PRE-WORK MEETING:

PRIOR TO WORKING ON THE RAILROAD COMPANY'S RIGHT-OF-WAY OR IN THE VICINITY OF THEIR TRACKS, YOU MUST CONTACT THE LOCAL ROADMASTER FOR THE RAILROAD COMPANY TO COORDINATE YOUR WORK. IT IS VITAL THAT YOU HAVE CONTACT WITH THE RAILROAD COMPANY'S ROADMASTER PRIOR TO GETTING ON THE RAILROAD'S PROPERTY.

COORDINATION WITH RAILROAD:

THE CONTRACTOR SHALL CONDUCT CONSTRUCTION OPERATIONS IN A MANNER WHICH WILL NOT DELAY OR INTERFERE WITH TRAIN OPERATIONS. CONSTRUCTION ACTIVITY WITHIN 25 (TWENTY-FIVE) FEET OF ACTIVE TRACKS WILL REQUIRE A FLAGMAN TO BE PROVIDED BY THE RAILROAD COMPANY AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE RAILROAD COMPANY ROADMASTER, A MINIMUM OF 30 (THIRTY) CALENDAR DAYS IN ADVANCE OF WHEN FLAGGING IS REQUIRED.

SPECIAL PERMISSION MUST BE OBTAINED FROM THE RAILROAD COMPANY BEFORE MOVING ANY EQUIPMENT OR OTHER OBJECT WHICH COULD MAKE THE TRACK IMPASSABLE IF IT FELL WITHIN THE AREA SHOWN ON THE CONSTRUCTION CLEARANCE DIAGRAM.

RAILROAD FLAGGERS, PROTECTIVE SERVICES, AND PROTECTIVE DEVICES WILL BE REQUIRED, BUT NOT LIMITED TO, EVENTS WHEN:

- THE CONTRACTOR WORK ACTIVITIES ARE WITHIN 25 (TWENTY-FIVE) FEET OF THE TRACK, MEASURED FROM THE TRACK CENTERLINE.
- ACTIVITIES ARE OVER OR UNDER THE TRACK.
- CRANES OR SIMILAR EQUIPMENT WILL BE POSITIONED WHERE THEY COULD FOUL THE TRACK IF THEY TIPPED OVER OR EXPERIENCED SOME OTHER CATASTROPHIC EVENT.
- IN THE OPINION OF THE RAILROAD COMPANY REPRESENTATIVE:
 - IT IS NECESSARY TO SAFEGUARD THE RAILROAD COMPANY PROPERTY, EMPLOYEES, TRAINS, ENGINES, AND FACILITIES.
 - WHEN ANY EXCAVATION IS PERFORMED BELOW THE BOTTOM OF THE ELEVATIONS AND TRACK OR OTHER RAILROAD COMPANY FACILITIES MAY BE SUBJECT TO MOVEMENT OR SETTLEMENT.
 - WHEN WORK IN ANY WAY INTERFERES WITH SAFE OPERATION OF TRAINS AND TIMETABLE SPEEDS.
 - WHEN ANY HAZARD IS PRESENTED TO RAILROAD TRACK, SIGNALS, COMMUNICATIONS, ELECTRICAL, OR OTHER FACILITIES EITHER DUE TO PERSON, MATERIAL, EQUIPMENT, OR BLASTING IN THE AREA.

PROTECTION OF RAILROAD UNDER BRIDGE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE RAILROAD TRACK BED DURING ALL CONSTRUCTION OPERATIONS. PRIOR TO ANY WORK BEING STARTED, A PROPOSED METHOD OF PREVENTING DEBRIS FROM FALLING ON THE RAILROAD TRACK BED SHALL BE SUBMITTED TO THE RAILROAD REPRESENTATIVE FOR HIS APPROVAL.

THE CONTRACTOR SHALL NOT BE PERMITTED TO LEAVE ANY WORKER SCAFFOLDING IN PLACE IN WORKING POSITION. AT THE END OF EACH WORKDAY, THE SCAFFOLDING SHALL BE REMOVED AND SET A SAFE DISTANCE FROM ANY OPERATING RAILROAD LINE. SCAFFOLDING SHALL AT ALL TIMES MAINTAIN THE MINIMUM CLEARANCE AS SHOWN ON THE "FALSEWORK DIAGRAM" IN THE PLANS (SHEET NO. B003, B004 & B005).

EROSION CONTROL AND DRAINAGE:

THE CONTRACTOR WILL INSTALL, MAINTAIN, AND REMOVE ALL EROSION CONTROL MEASURES DEEMED NECESSARY WITHIN THE RAILROAD RIGHT OF WAY.

THE CONTRACTOR WILL MAINTAIN THE RAILROAD DRAINAGE AT ALL TIMES WHEN WORKING WITHIN THE RAILROAD RIGHT OF WAY.

RAIL TRAFFIC:

THE ARKANSAS-OKLAHOMA RAILROAD COMPANY HAS 2 TRAINS PER DAY AT 25 MPH, ON THE HOWE SUBDIVISION. RAIL TRAFFIC IS FOR INFORMATION PURPOSES ONLY. ACTUAL RAIL TRAFFIC MAY VARY.

THE KIAMICHI RAILROAD COMPANY HAS 4 TRAINS PER DAY AT 25 MPH, ON THE DISTRICT NO. 1 SUBDIVISION. RAIL TRAFFIC IS FOR INFORMATION PURPOSES ONLY. ACTUAL RAIL TRAFFIC MAY VARY.

MULTIPLE LOCATIONS		DIVISION TWO		Design	N/A	N/A	
GENERAL NOTES AND SUMMARY OF PAY QUANTITIES (SHEET 1 OF 2)(BRIDGE)		Detail	TEE	3/16			
		Check	RAH	6/16			
		Squad	HENSFLEY				
		Engr.	DEFRANCO				
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION					
JOB/PIECE NO.		24333(14)		SHEET NO.		AB01	

REVISIONS		
REV. NO.	DESCRIPTION	DATE
△	ADD NOTES	8/11/16

ENVIRONMENTAL MITIGATION NOTES

404 PERMIT AND DEQ STORM WATER PERMIT REQUIREMENTS OVER WATERS:

IF THE CONTRACTOR ELECTS TO BUILD A WORK ROAD(S) WITHIN THE LIMITS OF THE CHANNEL IN ORDER TO PERFORM WORK, THE CONTRACTOR WILL BE RESPONSIBLE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE CORPS OF ENGINEERS 404 PERMIT WHICH IS INCLUDED IN THE CONTRACT.

IF THE AREA OF DISTURBANCE IS (1) OR MORE ACRES AND IS NOT ALREADY COVERED BY A DEQ PERMIT, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A DEQ STORM WATER CONSTRUCTION PERMIT WHICH WILL INCLUDE AN APPLICATION (NOTICE OF INTENT) TO DEQ PRIOR TO EARTH DISTURBING ACTIVITIES, A STORM WATER POLLUTION PREVENTION PLAN AND THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS.

ALL TEMPORARY WORK ROADS MUST BE REMOVED IN THEIR ENTIRETY AND THE AFFECTED AREAS RETURNED TO PRECONSTRUCTION CONDITIONS. IN ADDITION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PERMANENT STABILIZATION MEASURES AFTER REMOVAL OF THE WORK ROAD(S). ALL COSTS ASSOCIATED WITH THE CONTRACTORS' WORK ROAD INCLUDING A DEQ PERMIT, EROSION AND SEDIMENT CONTROLS AND PERMANENT STABILIZATION, ETC. WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

DEQ STORM WATER PERMIT REQUIREMENT OVER HIGHWAYS OR RAILROADS:

IF THE CONTRACTOR ELECTS TO BUILD A WORK ROAD(S) TO PERFORM WORK, THE CONTRACTOR WILL BE RESPONSIBLE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE DEQ OKR10 GENERAL CONSTRUCTION REGULATIONS. IF THE AREA OF DISTURBANCE IS ONE (1) OR MORE ACRES AND IS NOT ALREADY COVERED BY A DEQ PERMIT, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A DEQ STORM WATER CONSTRUCTION PERMIT WHICH WILL INCLUDE AN APPLICATION (NOTICE OF INTENT) TO DEQ PRIOR TO EARTH DISTURBING ACTIVITIES, A STORM WATER POLLUTION PREVENTION PLAN AND THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS. IN ADDITION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PERMANENT STABILIZATION MEASURES AFTER REMOVAL OF THE WORK ROAD(S). ALL COSTS ASSOCIATED WITH THE CONTRACTOR'S WORK ROAD INCLUDING A DEQ PERMIT, EROSION AND SEDIMENT CONTROLS AND PERMANENT STABILIZATION, ETC. WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GOOD-HOUSEKEEPING REQUIREMENT:

MATERIAL STORAGE, CHEMICAL STORAGE, TRASH, SANITARY FACILITIES, ETC. SHOULD BE LOCATED NO CLOSER THAN 50 FEET FROM THE BANK OF ANY WATERS IN ORDER TO PROTECT WATER QUALITY.

DEBRIS SHALL NOT BE BURIED WITHIN LIMITS OF RIGHT-OF-WAY.

△ BAT BRIDGE REMOVAL/MODIFICATION NOTE (BRIDGE "E" ONLY):

THE NORTHERN LONG EARED BAT IS MIGRATORY, INSECT EATING BATS PROTECTED BY THE ENDANGERED SPECIES ACT. THESE SPECIES CAN USE BRIDGES AS SUMMER ROOSTING SITES. IF THE BRIDGE REMOVAL OR MODIFICATION IS TO OCCUR BETWEEN APRIL 1 AND NOVEMBER 15, THE RESIDENT ENGINEER SHALL CONTACT THE ODOT BIOLOGIST AT 405-521-2515 TO CONDUCT A BAT SURVEY. THE SURVEY CAN BE CONDUCTED ONLY BETWEEN MAY 15 AND AUGUST 15. IF LISTED BAT SPECIES ARE DETECTED, THE ODOT BIOLOGICAL RESOURCES PROGRAM WILL CONSULT WITH US FISH AND WILDLIFE SERVICE. WORK ON THE BRIDGE WILL BE RESTRICTED AND MAY BE PROHIBITED FOR ALL OR PART OF THE DURATION OF THE BAT'S MATERNITY ROOSTING SEASON. ANY DELAY DUE TO THIS WILL NOT BE COMPENSATED. * ONLY APPLIES TO PITTSBURG COUNTY US-270 BRIDGE (NBI: 16591).

△ MIGRATORY BIRD NOTES:

MIGRATORY BIRDS ARE PROTECTED BY THE FEDERAL MIGRATORY BIRD TREATY ACT. THESE BIRDS COMMONLY USE BRIDGES AND CULVERTS FOR NESTING. THE NESTING SEASON FOR THE BIRDS RUNS FROM APRIL 1 TO AUGUST 31. ANY ACTIVITIES WHICH WOULD DESTROY ACTIVE NESTS OR HARM EGGS OR BIRDS WOULD VIOLATE THE MIGRATORY BIRD TREATY ACT. MIGRATORY BIRD USE OF BRIDGES NBI NO. 16591, 17506 AND 17507 HAVE BEEN OBSERVED DURING THE INITIAL SURVEY CONDUCTED AS PART OF THE BIOLOGICAL STUDIES IN JULY 2016. MIGRATORY BIRD USE OF THE REMAINING BRIDGES NBI NO. 17534, 17535 AND 09502 WAS NOT OBSERVED DURING THE INITIAL SURVEY. MIGRATORY BIRDS MAY OCCUPY THESE STRUCTURES IN THE FUTURE NESTING SEASONS. THE RESIDENT ENGINEER WILL EVALUATE THE CONTRACTOR'S PROPOSED WORK METHODS AND CONCLUDE WHETHER THE PROPOSED WORK WOULD POSE DISRUPTION TO ANY NESTING BIRDS BEFORE WORK NEAR THE STRUCTURE IS AUTHORIZED. IF THE PROPOSED WORK WILL HARM ANY NESTING BIRDS, THE BRIDGES MAY BE NETTED PRIOR TO APRIL 1 OR THE WORK DELAYED UNTIL THE NESTING SEASON IS COMPLETE. METHODS OTHER THAN NETTING MUST BE PRE-APPROVED BY THE ODOT BIOLOGIST.

THIS PROJECT IS MANDATORILY TIED WITH 31698(04). THE PRICE BID FOR THIS PROJECT SHALL INCLUDE ALL COSTS OF MOBILIZATION REQUIRED FOR 31698(04) AND 24333(14).

PAY QUANTITIES				
0200 BRIDGE 'A' - NBI 17506 - US-69 SOUTHBOUND OVER US-70				
ITEM		DESCRIPTION	UNIT	QUANTITY
512(A)	1323	PAINTING EXISTING STRUCTURES	(1) LSUM.	1.00
512(B)	6303	COLLECTION & HANDLING OF WASTE	(1) LSUM.	1.00

PAY QUANTITIES				
0201 BRIDGE 'B' - NBI 17507 - US-69 NORTHBOUND OVER US-70				
ITEM		DESCRIPTION	UNIT	QUANTITY
512(A)	1323	PAINTING EXISTING STRUCTURES	(1) LSUM.	1.00
512(B)	6303	COLLECTION & HANDLING OF WASTE	(1) LSUM.	1.00

PAY QUANTITIES				
0202 BRIDGE 'C' - NBI 17534 - US-69 SOUTHBOUND OVER W. ARKANSAS ST. & R.R.				
ITEM		DESCRIPTION	UNIT	QUANTITY
512(A)	1323	PAINTING EXISTING STRUCTURES	(1) LSUM.	1.00
512(B)	6303	COLLECTION & HANDLING OF WASTE	(1) LSUM.	1.00

PAY QUANTITIES				
0203 BRIDGE 'D' - NBI 17535 - US-69 NORTHBOUND OVER W. ARKANSAS ST. & R.R.				
ITEM		DESCRIPTION	UNIT	QUANTITY
512(A)	1323	PAINTING EXISTING STRUCTURES	(1) LSUM.	1.00
512(B)	6303	COLLECTION & HANDLING OF WASTE	(1) LSUM.	1.00

PAY QUANTITIES				
0204 BRIDGE 'E' - NBI 16591 - US-270 OVER A OK R.R.				
ITEM		DESCRIPTION	UNIT	QUANTITY
512	6280	CLEANING AND PAINTING BRIDGE METAL RAIL	(2) L.F.	384.00
512(A)	1323	PAINTING EXISTING STRUCTURES	(1) LSUM.	1.00
512(B)	6303	COLLECTION & HANDLING OF WASTE	(1) LSUM.	1.00

PAY QUANTITIES				
0205 BRIDGE 'F' - NBI 09502 - SH-78 OVER MINERAL BAYOU CREEK				
ITEM		DESCRIPTION	UNIT	QUANTITY
512(A)	1323	PAINTING EXISTING STRUCTURES	(1) LSUM.	1.00
512(B)	6303	COLLECTION & HANDLING OF WASTE	(1) LSUM.	1.00

PAY QUANTITIES				
0640 CONSTRUCTION				
ITEM		DESCRIPTION	UNIT	QUANTITY
641	1399	MOBILIZATION	LSUM.	1.00

MULTIPLE LOCATIONS		DIVISION TWO		Design	N/A	N/A
GENERAL NOTES AND SUMMARY OF PAY QUANTITIES (SHEET 2 OF 2) (BRIDGE)		Detail	TEE	6/16		
		Check	RAH	6/16		
		Squad:	HENSLY			
		Engr.:	DEFRANCO			
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION				
		JOB/PIECE NO.	24333(14)		SHEET NO. AB02	

REVISIONS		
REV. NO.	DESCRIPTION	DATE
△	ADDED PAY ITEM & NOTE	7/8/16
△	DELETED NOTE & PAY ITEM, ADDED 2 CATEGORIES	7/28/16

TRAFFIC GENERAL CONSTRUCTION NOTES

EXISTING ROADWAY 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 IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS. CONSTRUCTION TRAFFIC CONTROL WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS.

REMOVED MATERIAL TO BECOME PROPERTY OF CONTRACTOR AND IT SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE RESIDENT ENGINEER.

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 (OETA) AS A TRAFFIC CONTROL TECHNICIAN OR TRAFFIC CONTROL SUPERVISOR.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL MEET ODOT'S "QUALITY STANDARDS FOR TEMPORARY TRAFFIC CONTROL DEVICES." CHANNELIZING DEVICES SHALL HAVE A MINIMUM HEIGHT OF 36 INCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE TEMPORARY TRAFFIC CONTROL DEVICES, AND SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DEVICE DURING CONSTRUCTION.

TRAFFIC PAY QUANTITY NOTES

- (TC-26) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT. ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE 'A' LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.
- (TC-30) INCLUDED IN THIS ITEM ARE ALL S.C.S. (SPECIAL CONSTRUCTION SIGNING) SIGNS WHICH ARE BETWEEN 16.00 S.F. AND 32.99 S.F. ALSO INCLUDED IN THIS ITEM SHALL BE THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF THESE SIGNS.
- (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-52) ANY USED TRUCK MOUNTED ATTENUATOR, CHANGEABLE MESSAGE SIGN 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-76) ANY TRUCK MOUNTED ATTENUATOR USED ON THIS PROJECT SHALL HAVE PASSED ALL MANDATORY AND OPTIONAL TESTS LISTED IN NCHRP 350, TL-3 CRITERIA. THIS ITEM IS TO BE USED WHERE SHOWN IN THE STANDARD DRAWINGS OR AT THE DISCRETION OF THE ENGINEER ON SHADOW VEHICLES PROTECTING THE WORK AREAS AND TEMPORARY ROADSIDE HAZARDS.
- (TC-77) TRUCK MOUNTED ATTENUATORS ARE TO BE INSTALLED ON NON-STATE OWNED TRUCKS HAVING A MINIMUM GROSS WEIGHT RATING OF 15,000 POUNDS. EACH OF THESE TRUCKS SHALL ALSO BE EQUIPPED WITH AN ARROW DISPLAY (TYPE B).
- (TC-84) 120 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. STANDARDS 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: <http://www.okladot.state.ok.us/traffic/qpl/index.php>

SPECIAL NOTES

- (SP-1) PORTABLE CHANGEABLE MESSAGE SIGNS TO BE PLACED WHERE DEEMED NECESSARY BY THE ENGINEER.
- (SP-2) PORTABLE CHANGEABLE MESSAGE SIGN(S) SHALL BE PLACED 14 DAYS PRIOR TO CONSTRUCTION.
- (SP-3) TYPE "C" WARNING LIGHTS ARE NOT REQUIRED.
- △ (SP-4) DELETE

PAY QUANTITY SCHEDULE

0300 TRAFFIC CONTROL				
PAY ITEM	CODE NO.	DESCRIPTION	UNIT	QUANTITY
△		DELETE		
876(A)	8482	(PL) TRUCK MOUNTED ATTENUATOR (TC-52,70,76,77)	SD	140.00
880(A)	8812	ARROW DISPLAY (TYPE C) (TC-70)	SD	120.00
880(B)	8818	CONSTRUCTION SIGNS 0 TO 6.25 SF (TC-26,33,84)	SD	2,400.00
880(B)	8821	CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF (TC-26,33,84)	SD	1,920.00
880(B)	8824	CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF (TC-26,30,33,84)	SD	2,880.00
880(C)	8842	CONSTRUCTION BARRICADES (TYPE III) (TC-26,84)	SD	1,440.00
880(C)	8848	WING BARRICADES (TC-26,84)	SD	720.00
880(E)	8860	WARNING LIGHTS (TYPE A) (TC-26,84)	SD	4,800.00
880(F)	8878	DRUMS (SP-3)(TC-26,84)	SD	5,520.00
880(G)	8890	CHANNELIZER CONES (TC-26,84)	SD	7,200.00
880(I)	8902	FLAGGER (TC-70)	SD	80.00
882(A)	8306	PORT. CHANGEABLE MESSAGE SIGN (SP-1,2)(TC-52,84,85)	SD	402.00

PAY QUANTITY SCHEDULE

0301 TRAFFIC KIAMICHI RAILROAD				
PAY ITEM	CODE NO.	DESCRIPTION	UNIT	QUANTITY
△	104	955 (SP) RAILROAD FLAGGING (NON-BIDDABLE)	DAY	40.00

PAY QUANTITY SCHEDULE

0302 TRAFFIC ARKANSAS OKLAHOMA RAILROAD				
PAY ITEM	CODE NO.	DESCRIPTION	UNIT	QUANTITY
△	104	955 (SP) RAILROAD FLAGGING (NON-BIDDABLE)	DAY	20.00

PREPARED BY:
OKLAHOMA DEPARTMENT OF TRANSPORTATION
TRAFFIC ENGINEERING DIVISION

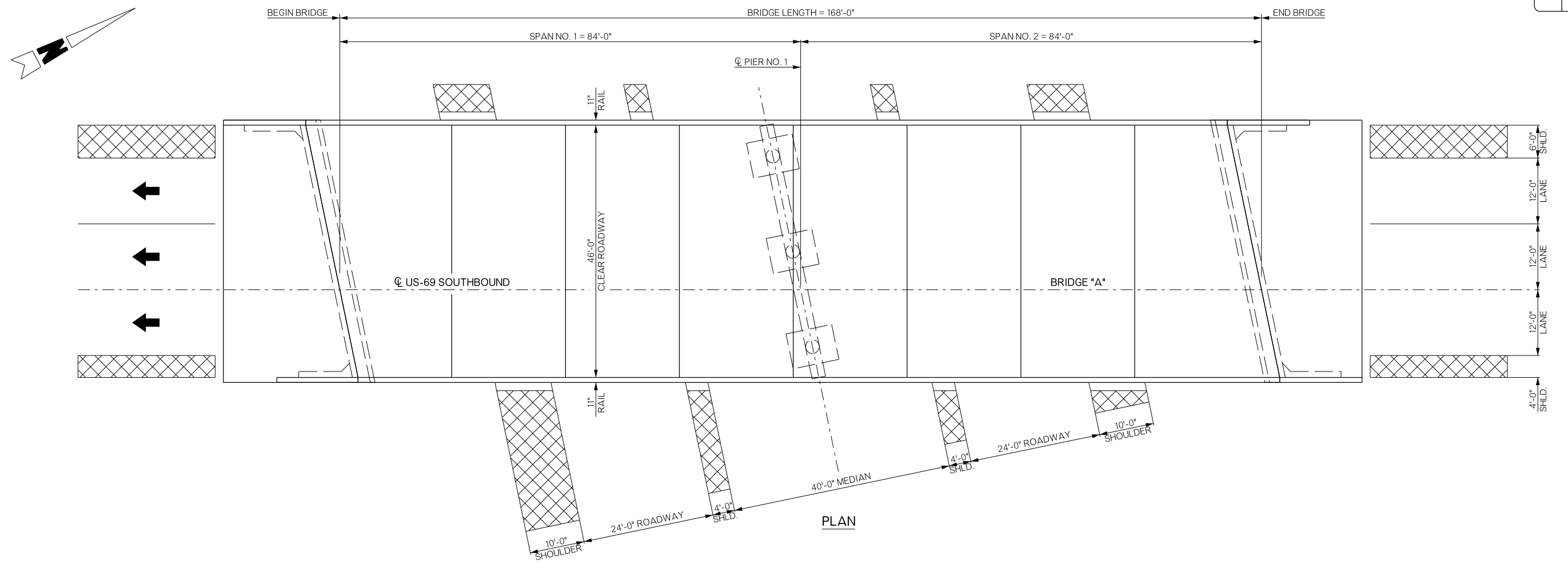
DATE: 07-28-16

DOT
OKLA. REG. NO. 25181

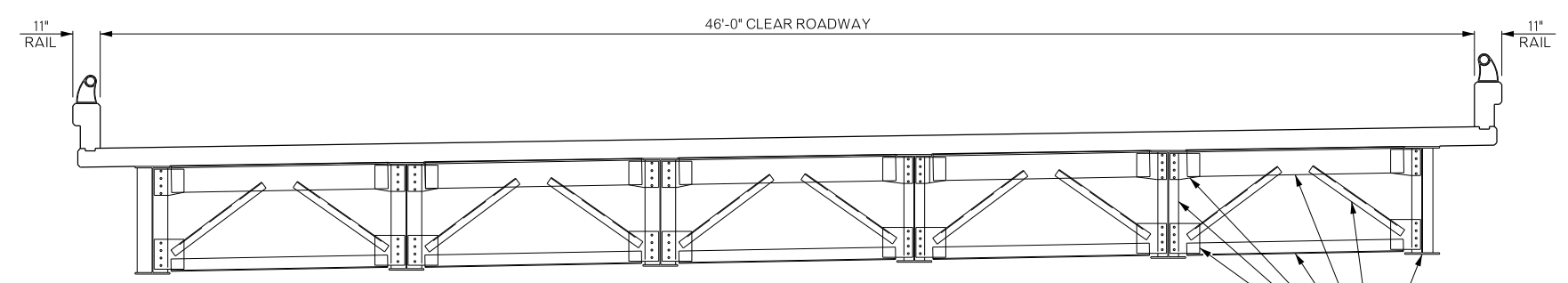
PROFESSIONAL ENGINEER
TAREK AHMAD MAAROUF
25181
OKLAHOMA

SUMMARY OF PAY QUANTITIES & NOTES (TRAFFIC)		
Drawn	SC	6/16
Design	SC	6/16
Checked	KCD	6/16
TRAFFIC ENGINEERING TAREK MAAROUF		

REVISIONS		
REV. NO.	DESCRIPTION	DATE



PLAN

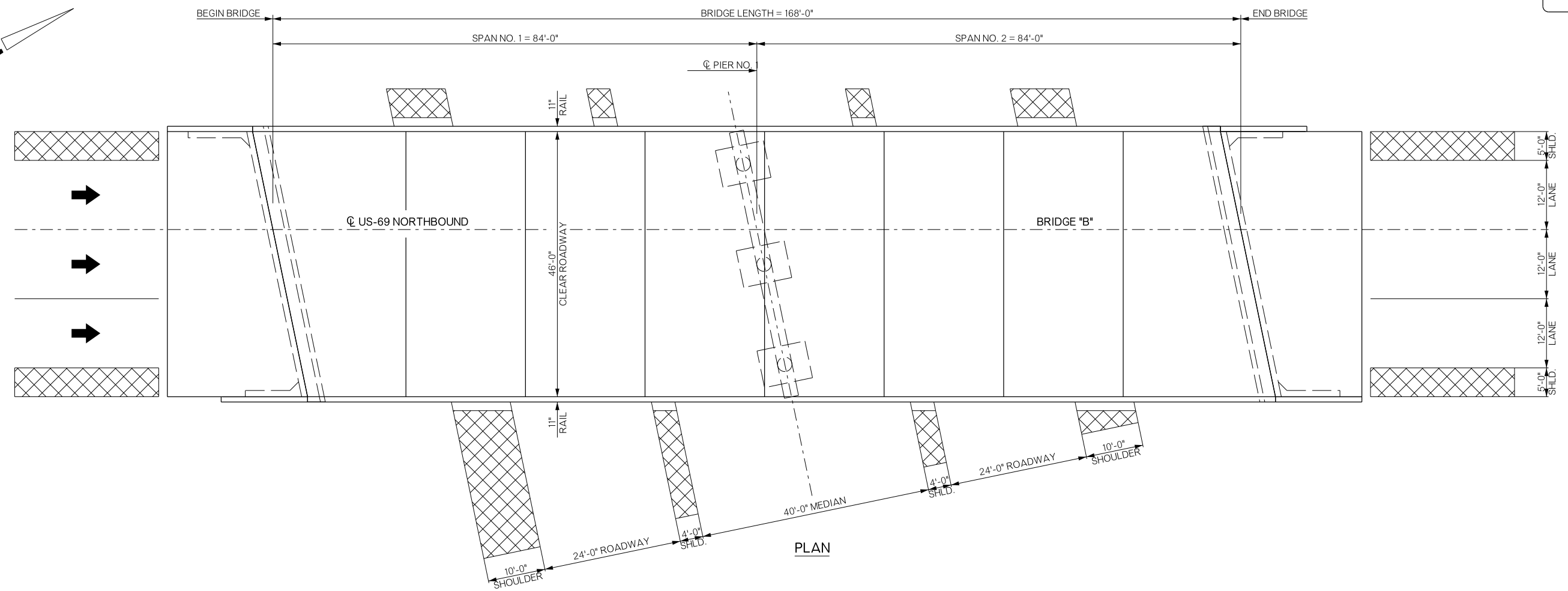
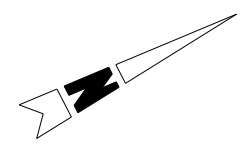


TYPICAL SECTION

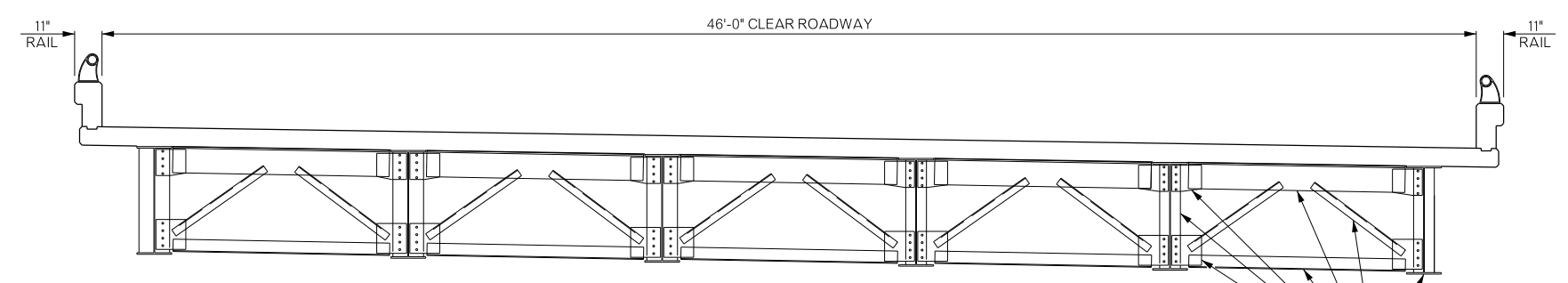
ALL STRUCTURAL STEEL, INCLUDING BEAMS, BEAM STIFFENERS, DIAPHRAGMS, ANGLES AND BEARING ASSEMBLIES SHALL BE CLEANED AND PAINTED. SEE GENERAL NOTES.

BRIDGE "A"		BRYAN COUNTY		Design	N/A	N/A
US-69 SOUTHBOUND OVER US-70				Detail	DAN	5/16
GENERAL PLAN AND TYPICAL SECTION (BRIDGE "A")				Check	RAH	6/16
				Squad	HENSFLEY	
				Engr	DEFRANCO	
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION				
JOB/PIECE NO. 24333(14)				SHEET NO. B001		

REVISIONS		
REV. NO.	DESCRIPTION	DATE



PLAN

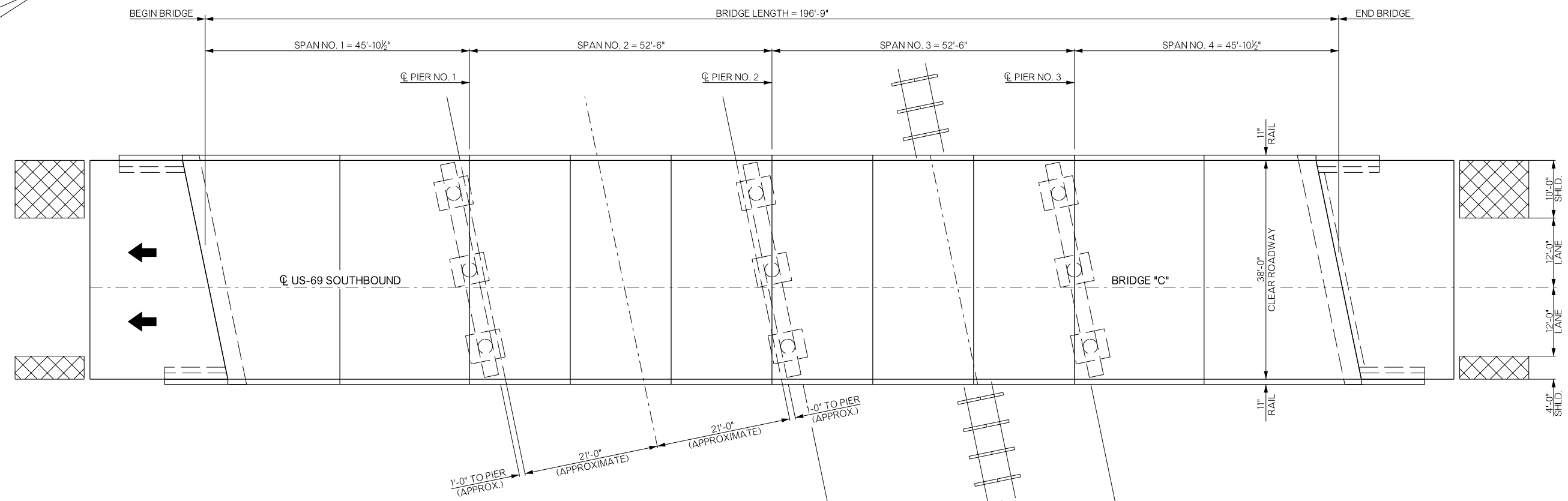
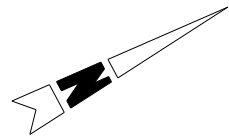


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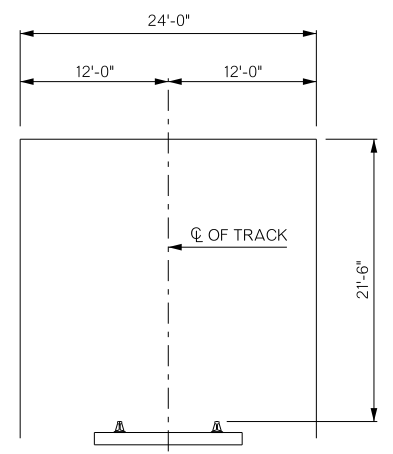
ALL STRUCTURAL STEEL, INCLUDING BEAMS, BEAM STIFFENERS, DIAPHRAGMS, ANGLES AND BEARING ASSEMBLIES SHALL BE CLEANED AND PAINTED. SEE GENERAL NOTES.

BRIDGE "B" US-69 NORTHBOUND OVER US-70	BRYAN COUNTY	Design	N/A	N/A
GENERAL PLAN AND TYPICAL SECTION (BRIDGE "B")		Detail	DAN	5/16
		Check	RAH	6/16
STATE OF OKLAHOMA		Squad:	HENSFLEY	
DEPARTMENT OF TRANSPORTATION		Engr:	DEFRANCO	
JOB/PIECE NO. 24333(14)	SHEET NO. B002			

REVISIONS		
REV. NO.	DESCRIPTION	DATE

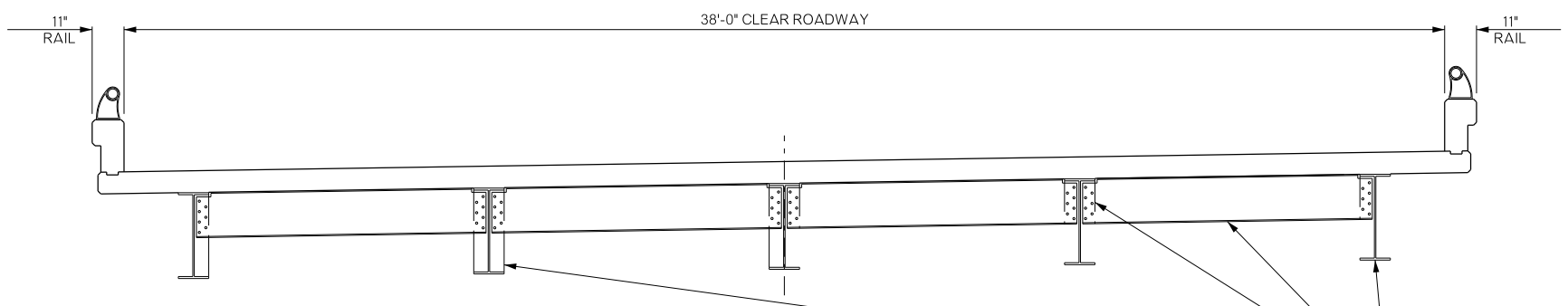


PLAN



KIAMICHI FALSEWORK CLEARANCE DIAGRAM

CLEARANCE OF FALSEWORK REQUIRED BY R.R. FOR OPERATION DURING CONSTRUCTION.
 HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO CL OF R.R. TRACK.
 VERTICAL DIMENSION SHOWN IS PERPENDICULAR TO PLANE OF TOP OF RAILS.



END SPAN

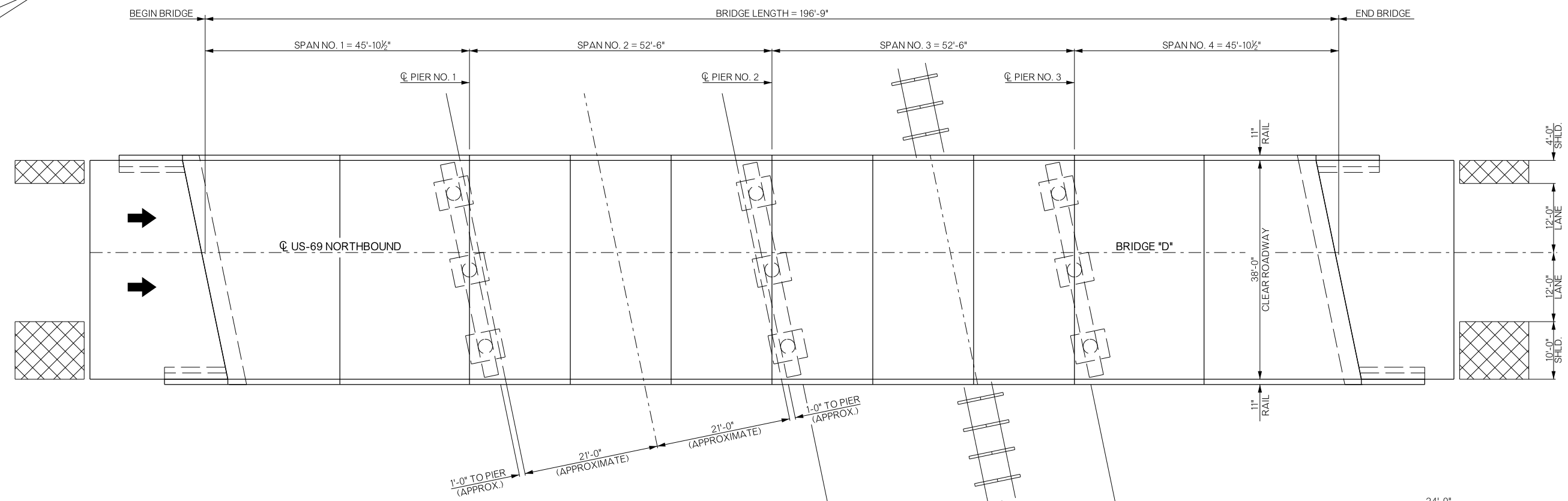
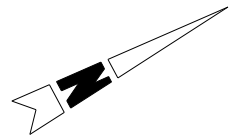
TYPICAL SECTION

MID-SPAN

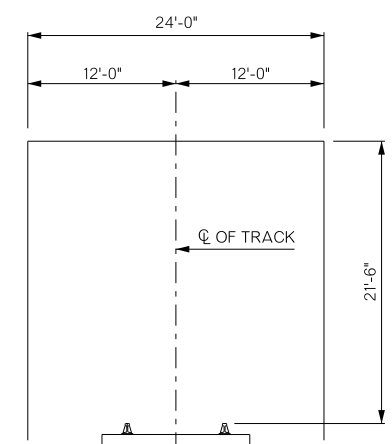
ALL STRUCTURAL STEEL, INCLUDING BEAMS, BEAM STIFFENERS, DIAPHRAGMS AND BEARING ASSEMBLIES SHALL BE CLEANED AND PAINTED. SEE GENERAL NOTES.

BRIDGE "C" US-69 SOUTHBOUND OVER W. ARKANSAS ST. & R.R.	BRYAN COUNTY		Design	N/A	N/A
			Detail	DAN	5/16
			Check	RAH	6/16
			Squad	HENSFLEY	
		Engr:	DEFRANCO		
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION		JOB/PIECE NO. 24333(14)	
				SHEET NO. B003	

REVISIONS		
REV. NO.	DESCRIPTION	DATE

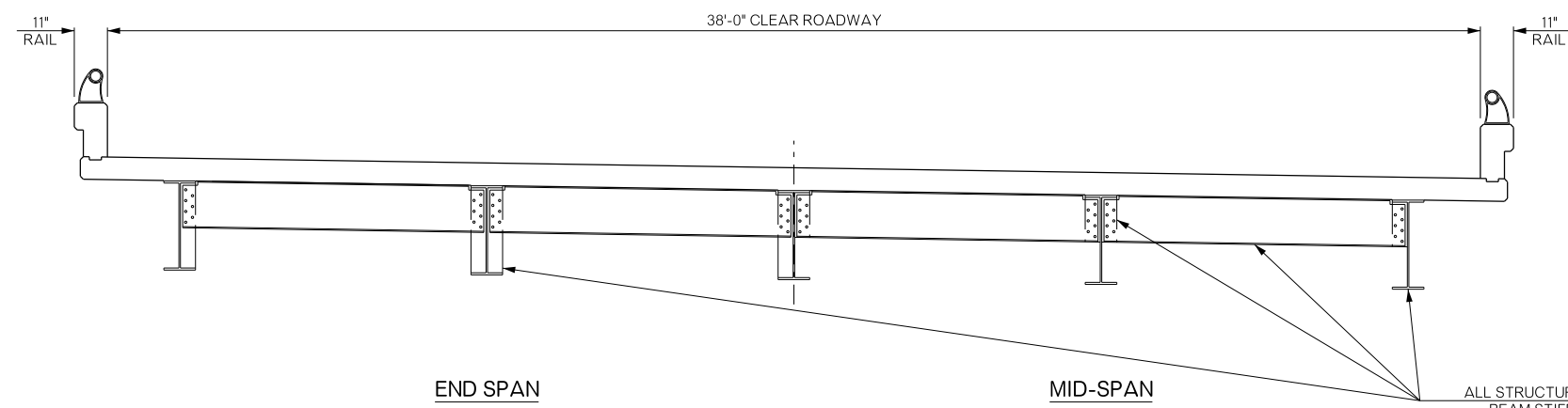


PLAN



KIAMICHI FALSEWORK CLEARANCE DIAGRAM

CLEARANCE OF FALSEWORK REQUIRED BY R.R. FOR OPERATION DURING CONSTRUCTION.
 HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO C OF R.R. TRACK.
 VERTICAL DIMENSION SHOWN IS PERPENDICULAR TO PLANE OF TOP OF RAILS.

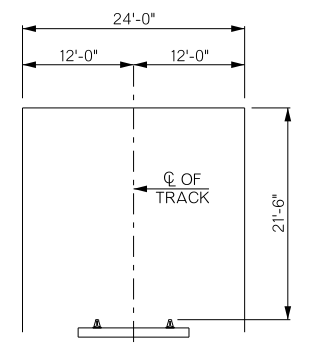
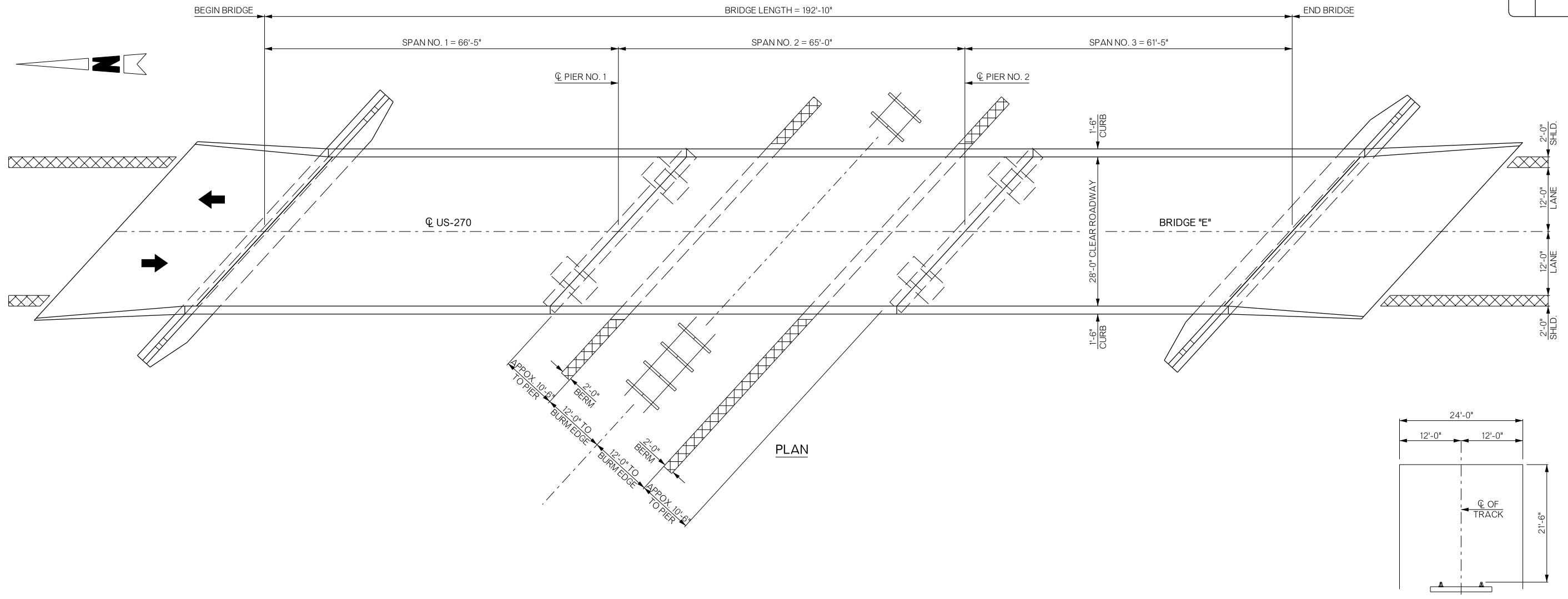


TYPICAL SECTION

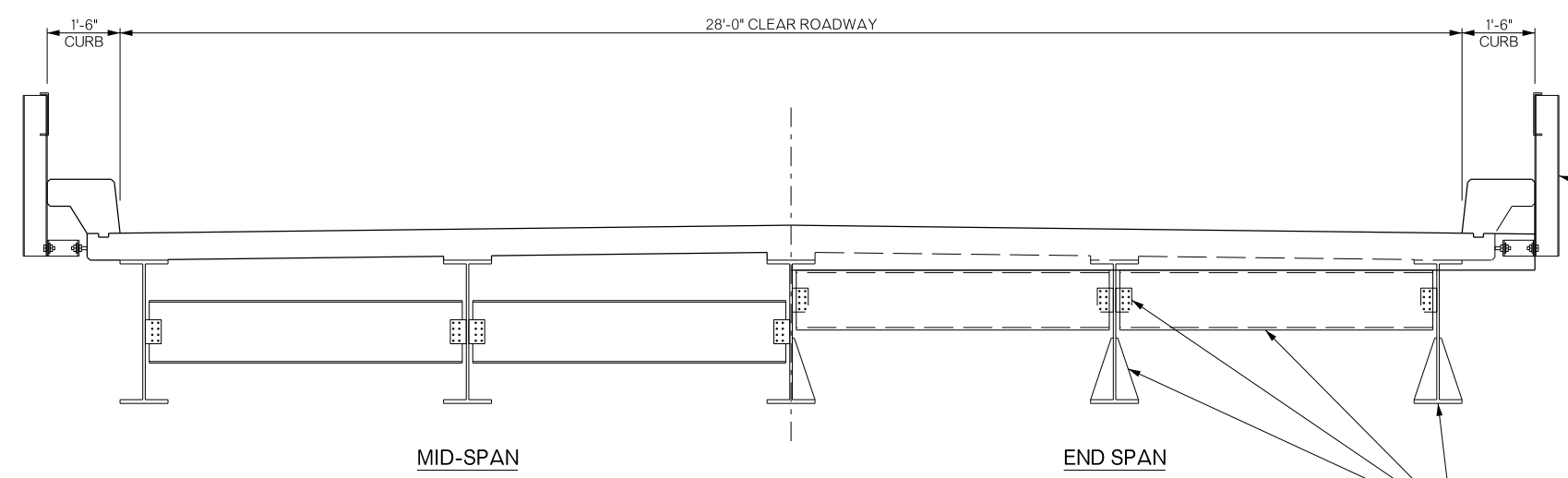
ALL STRUCTURAL STEEL, INCLUDING BEAMS, BEAM STIFFENERS, DIAPHRAGMS AND BEARING ASSEMBLIES SHALL BE CLEANED AND PAINTED. SEE GENERAL NOTES.

BRIDGE "D" US-69 NORTHBOUND OVER W. ARKANSAS ST. & R.R.	BRYAN COUNTY		Design	N/A	N/A
	GENERAL PLAN AND TYPICAL SECTION (BRIDGE "D")		Detail	DAN	5/16
			Check	RAH	6/16
			Squad	HENSFLEY	
		Engr:	DEFRANCO		
STATE OF OKLAHOMA	DEPARTMENT OF TRANSPORTATION	JOB/PIECE NO. 24333(14)	SHEET NO. B004		

REVISIONS		
REV. NO.	DESCRIPTION	DATE



AOK FALSEWORK CLEARANCE DIAGRAM
 CLEARANCE OF FALSEWORK REQUIRED BY R.R. FOR OPERATION DURING CONSTRUCTION.
 HORIZONTAL DIMENSIONS SHOWN ARE MEASURED AT RIGHT ANGLES TO CL OF R.R. TRACK.
 VERTICAL DIMENSION SHOWN IS PERPENDICULAR TO PLANE OF TOP OF RAILS.

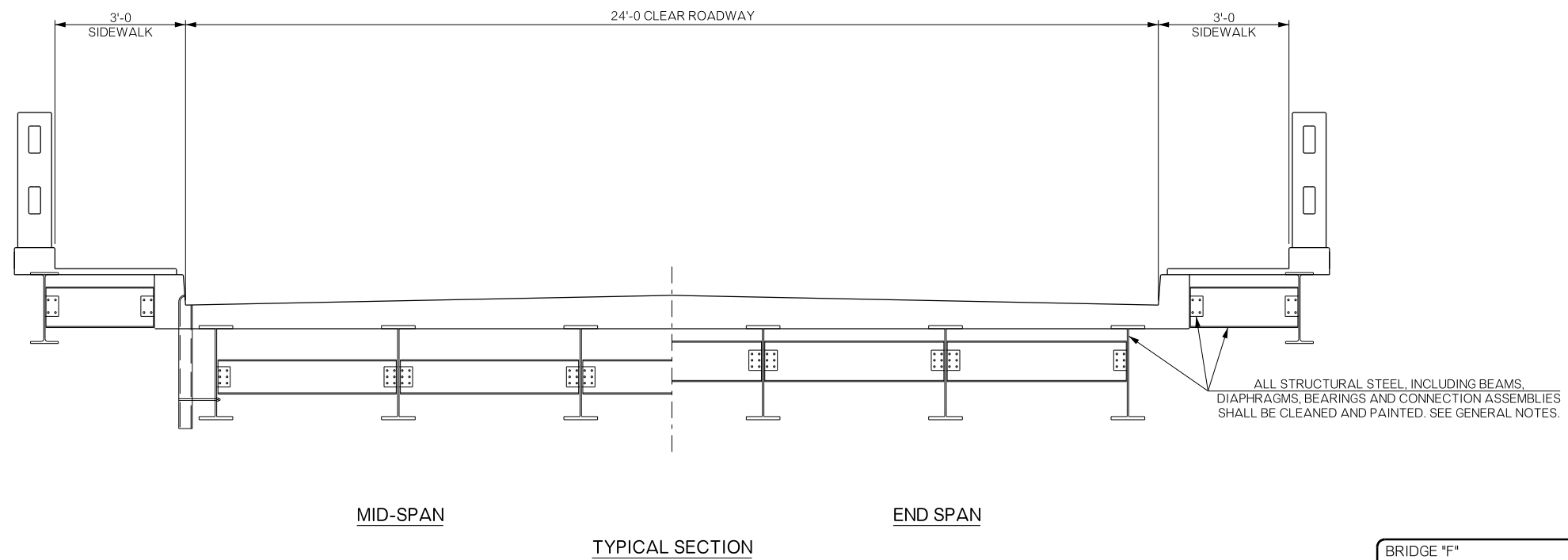
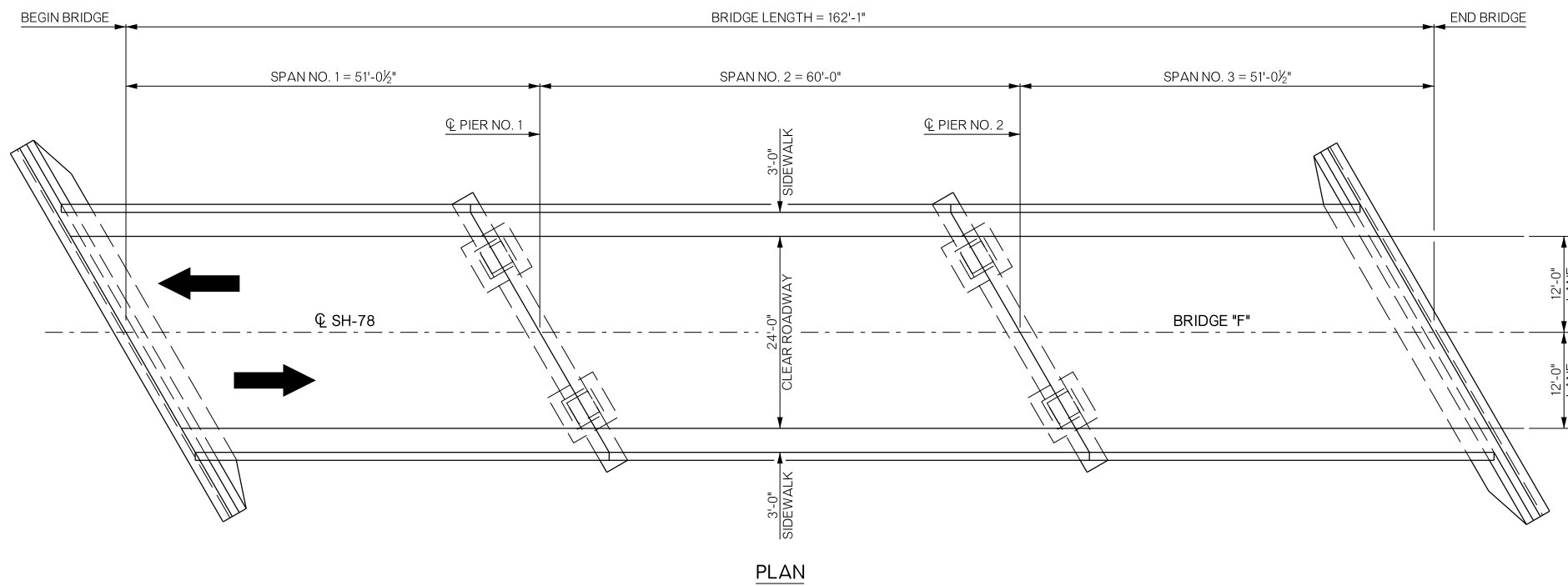
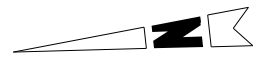


PAINT HANDRAILS IN ACCORDANCE WITH SECTION 512 OF THE STANDARD SPECIFICATIONS, USING APPLICATION CATEGORY 'E' (TYPICAL)

ALL STRUCTURAL STEEL, INCLUDING BEAMS, DIAPHRAGMS, ANGLES AND BEARING ASSEMBLIES SHALL BE CLEANED AND PAINTED. SEE GENERAL NOTES.

BRIDGE "E" US-270 OVER A OK R.R.	PITTSBURG COUNTY	Design	N/A	N/A
GENERAL PLAN AND TYPICAL SECTION (BRIDGE "E")		Detail	DAN	5/16
		Check	RAH	6/16
STATE OF OKLAHOMA		Squad	HENSFLEY	
DEPARTMENT OF TRANSPORTATION		Engr:	DEFRANCO	
JOB/PIECE NO. 24333(14)	SHEET NO. B005			

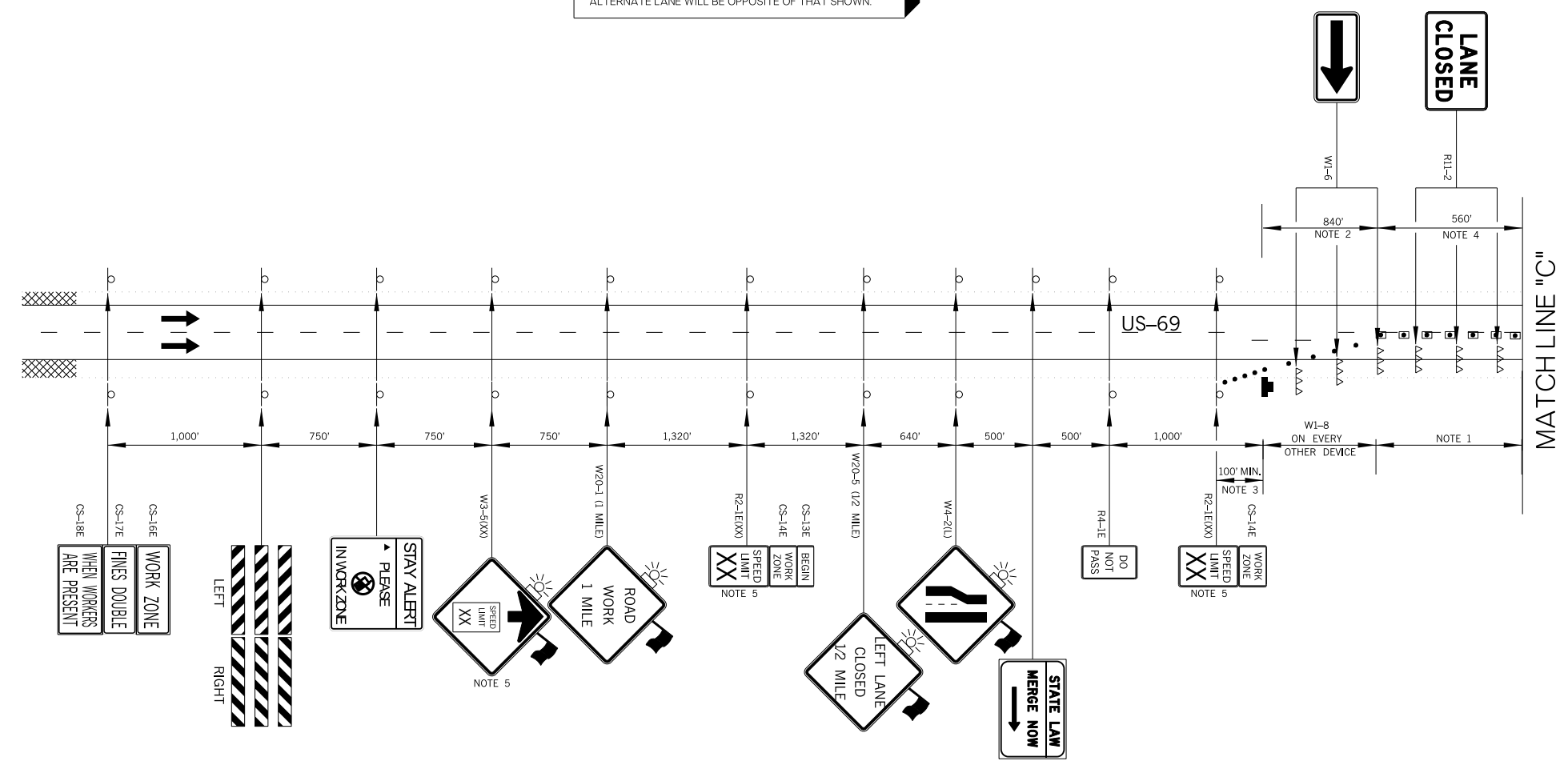
REVISIONS		
REV. NO.	DESCRIPTION	DATE



BRIDGE "F"		BRYAN COUNTY		Design	N/A	N/A
SH-78 OVER MINERAL BAYOU CREEK				Detail	DAN	5/16
GENERAL PLAN AND TYPICAL SECTION (BRIDGE "F")				Check	RAH	6/16
				Squad	HENSFLEY	
				Engr.	DEFRANCO	
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION				
JOB/PIECE NO. 24333(14)		SHEET NO. B006				

REVISIONS		
REV. NO.	DESCRIPTION	DATE

THERE IS NO SUGGESTED SEQUENCE OF CONSTRUCTION IN THIS DRAWING. INSIDE AND OUTSIDE LANES SHALL BE WORKED AS STATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE DETAILS SHOWN ARE FOR ONE LANE OF TRAFFIC CONTROL. ALL TRAFFIC CONTROL FOR THE ALTERNATE LANE WILL BE OPPOSITE OF THAT SHOWN.



NOTE 1
 MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE TWICE THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 50 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 75 FEET FOR CHANNELIZER CONES. SPACING SHALL NOT EXCEED 100 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS.

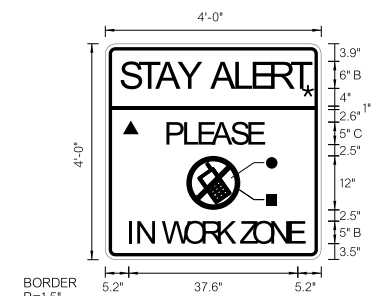
NOTE 2
 MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 25 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 50 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS.

NOTE 3
 A MINIMUM OF FIVE (5) CHANNELIZING DEVICES SHALL BE PLACED THROUGH THIS TAPER.

NOTE 4
 TYPE III BARRICADES WITH SIGNS READING "LANE CLOSED" (R11-2) SHALL BE PLACED EVERY 2,000 FEET THROUGH ACTIVITY AREA. THESE TYPE III BARRICADES AND SIGNS MAY BE OMITTED ON MOVING OPERATIONS AND SHORT DURATION PROJECTS.

NOTE 5
 CONSTRUCTION SPEED LIMIT TO BE DETERMINED BY THE DIVISION ENGINEER.

FOR ADDITIONAL INFORMATION ABOUT TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES, SEE STANDARD DRAWING TCS2-1 (LATEST REVISION).



COLOR:
 LEGEND, SYMBOL AND BORDER
 BLACK (NON-REFLECTORIZED)
 BACKGROUND:
 ▲ FLUORESCENT ORANGE (REFLECTORIZED)
 ★ FLUORESCENT YELLOW (REFLECTORIZED)
 ● WHITE (REFLECTORIZED)
 ■ RED (TRANSPARENT)

KEY:

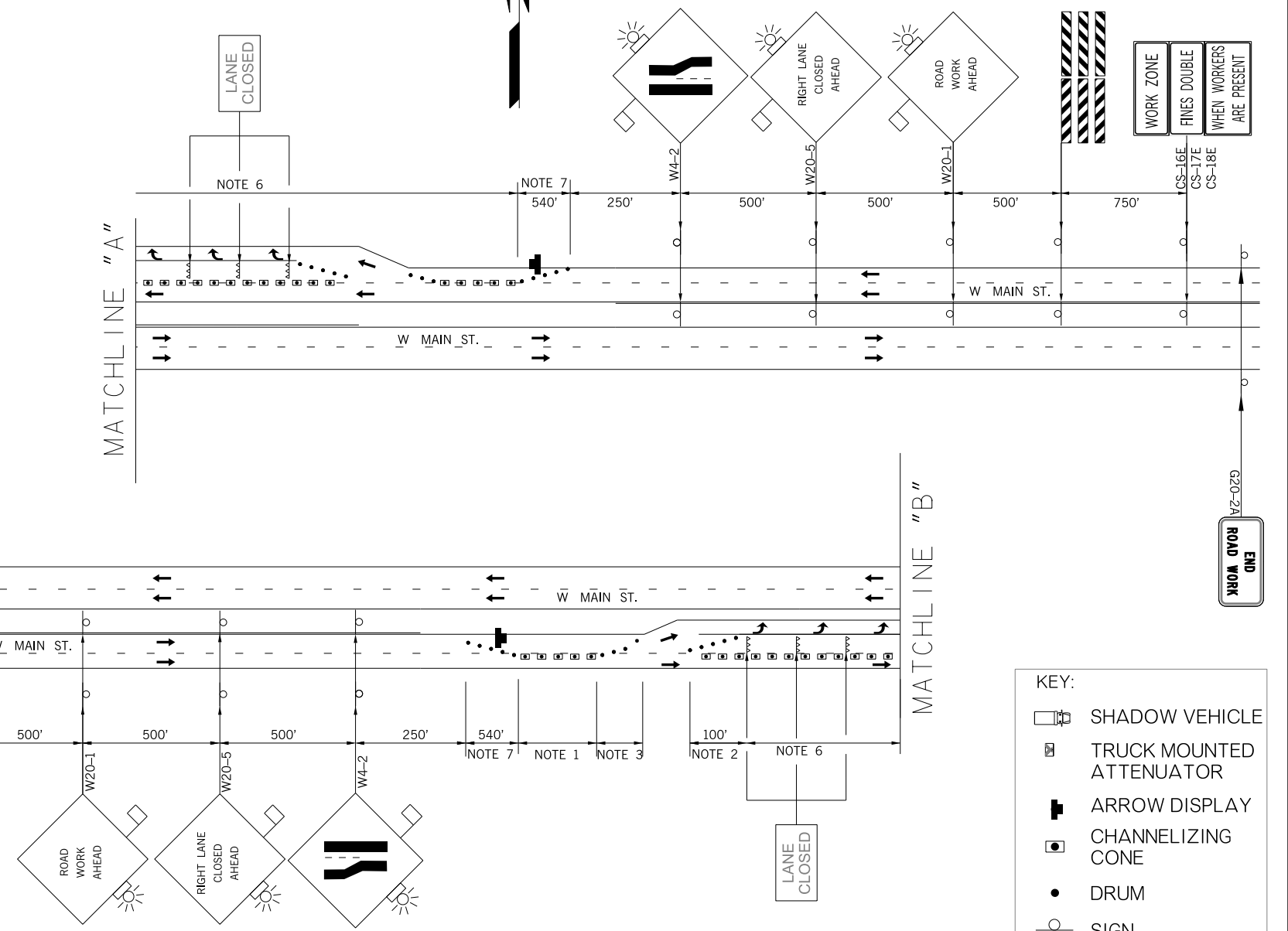
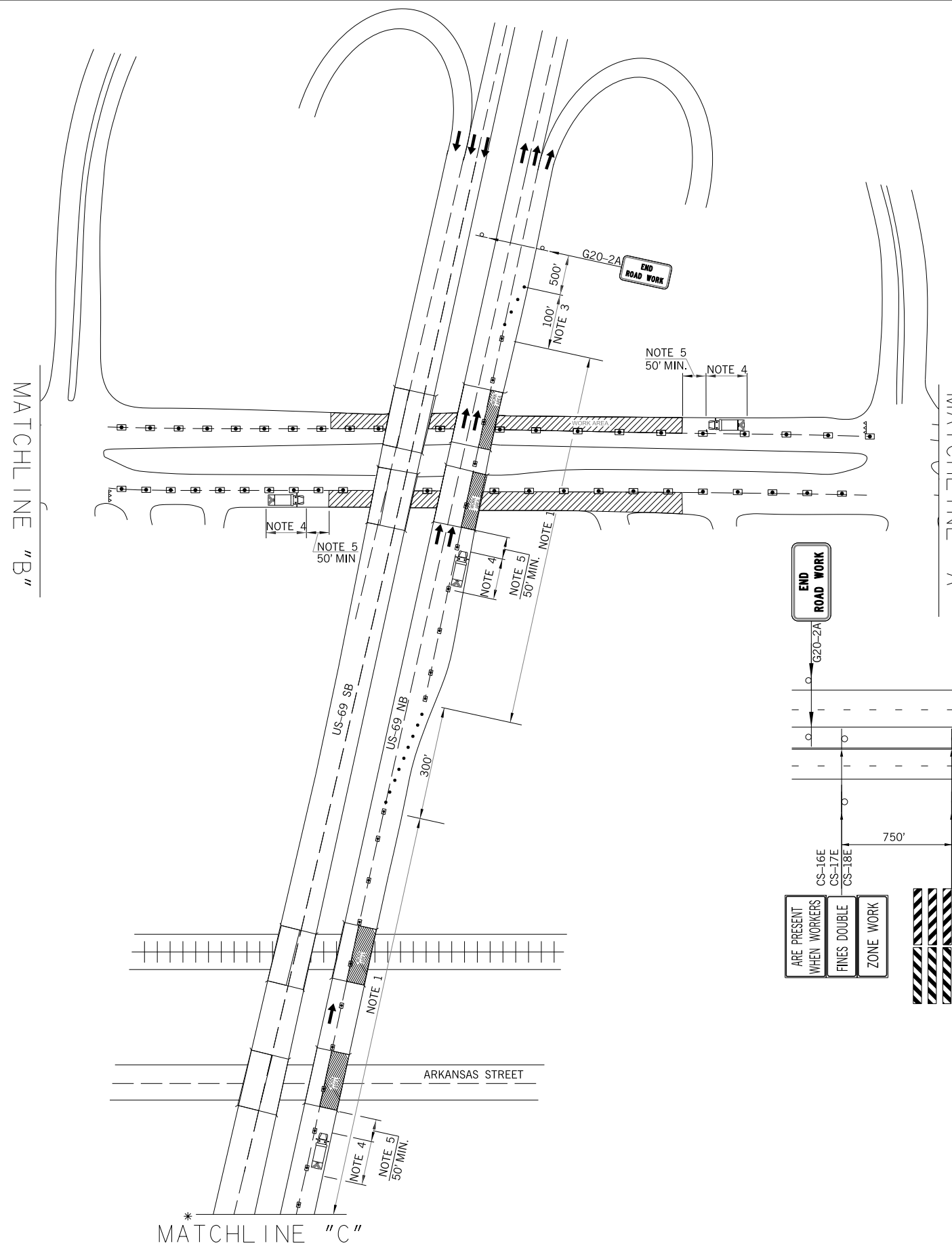
	SIGN
	DRUM
	CHANNELIZING CONE
	WORK AREA
	ARROW DISPLAY
	TYPE III BARRICADES

NOT TO SCALE

TRAFFIC CONTROL DETAIL ADVANCE WARNING (OVER BRIDGES A,B,C & D)		Drawn	SC	6/16
		Design	SC	6/16
		Checked	KCD	6/16
		TRAFFIC ENGINEERING TAREK MAAROUF		
STATE OF OKLAHOMA	DEPARTMENT OF TRANSPORTATION			
DIVISION 2	JOB/PIECE NO.	24333(14)	SHEET NO.	T001

REVISIONS		
REV. NO.	DESCRIPTION	DATE

THERE IS NO SUGGESTED SEQUENCE OF CONSTRUCTION IN THIS DRAWING. INSIDE AND OUTSIDE LANES SHALL BE WORKED AS STATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE DETAILS SHOWN ARE FOR ONE LANE OF TRAFFIC CONTROL. ALL TRAFFIC CONTROL FOR THE ALTERNATE LANE WILL BE OPPOSITE OF THAT SHOWN.



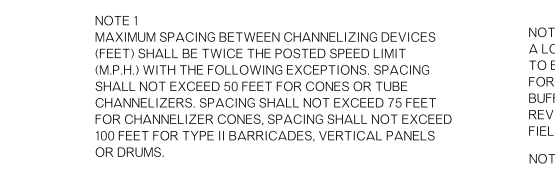
END ROAD WORK

ARE PRESENT WHEN WORKERS ARE DOUBLE ZONE WORK

CS-16E

CS-17E

CS-18E



KEY:

- SHADOW VEHICLE
- TRUCK MOUNTED ATTENUATOR
- ARROW DISPLAY
- CHANNELIZING CONE
- DRUM
- SIGN
- TRAFFIC FLOW
- TYPE "III" BARRICADE
- WORK ZONE

NOT TO SCALE

*SEE SHEET T001 FOR ADVANCED WARNING TRAFFIC CONTROL

NOTE 1
MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE TWICE THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 50 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 75 FEET FOR CHANNELIZER CONES, SPACING SHALL NOT EXCEED 100 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS.

NOTE 2
A MINIMUM OF FIVE (5) CHANNELIZING DEVICES SHALL BE PLACED THROUGH THIS AREA.

NOTE 3
DOWNSTREAM TAPERS SHALL CONTAIN A MINIMUM OF FOUR (4) CHANNELIZING DEVICES.

NOTE 4
THE SHADOW VEHICLE SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE WHENEVER WORKERS ARE IN THE WORK AREA. THIS VEHICLE SHALL BE REMOVED FROM THE ROADWAY WHENEVER WORKERS ARE NOT IN THE WORK AREA. THIS VEHICLE SHALL BE EQUIPPED WITH AN ACTUATED FLASHING OR REVOLVING YELLOW LIGHT.

NOTE 5
A LONGITUDINAL BUFFER AREA, TO ALLOW WORKERS TIME TO EVACUATE THE WORK AREA, SHOULD BE PROVIDED. FOR GUIDELINES ON SETTING THE LENGTH OF THIS BUFFER, SEE STANDARD DRAWING TCS2-1 (LATEST REVISION). ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND THE JUDGEMENT OF THE ENGINEER.

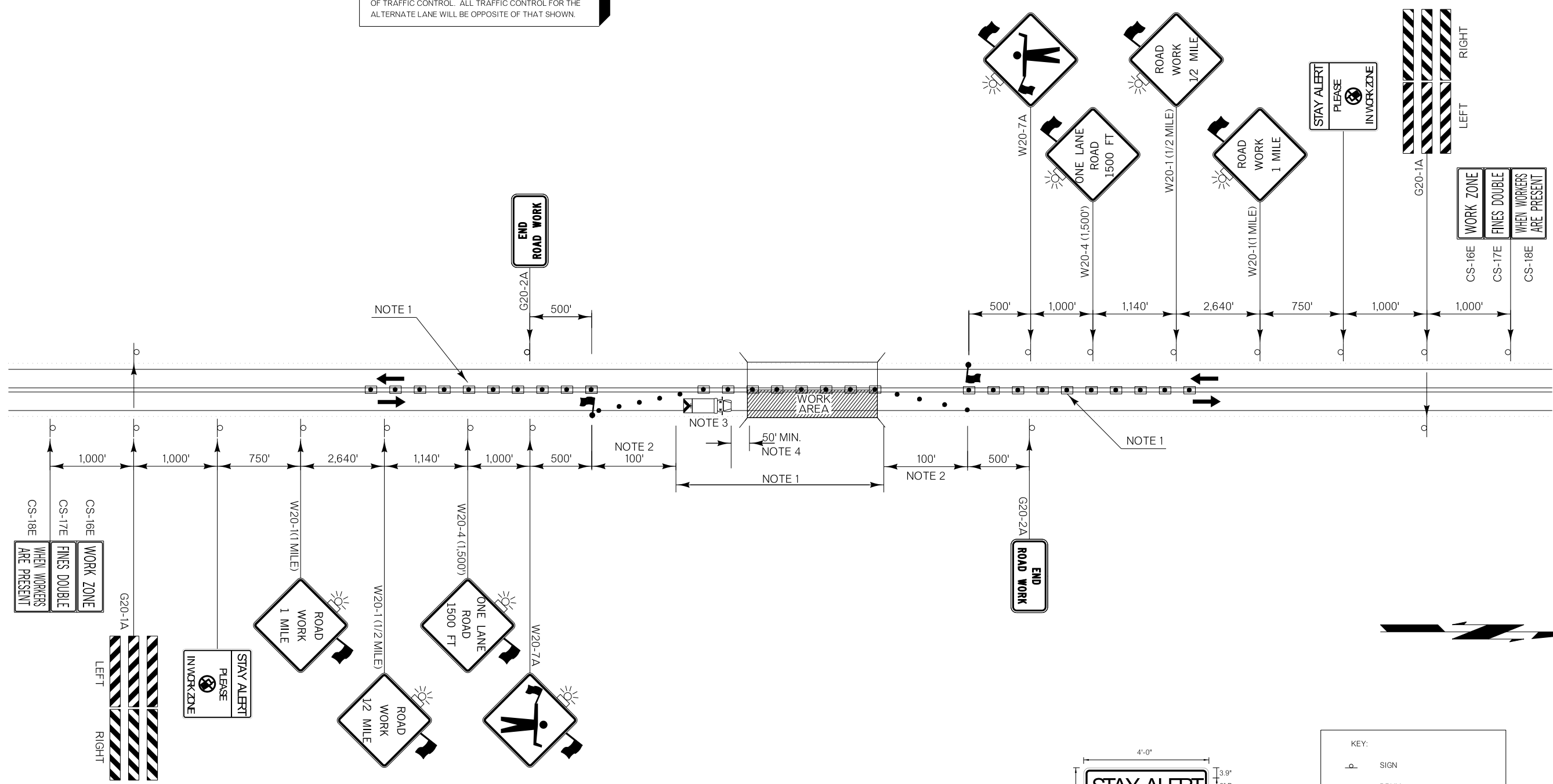
NOTE 6
TYPE III BARRICADES WITH SIGNS READING "LANE CLOSED" (R11-2) SHALL BE PLACED EVERY 2,000 FEET THROUGH ACTIVITY AREA. THESE TYPE III BARRICADES AND SIGNS MAY BE OMITTED ON MOVING OPERATIONS AND SHORT DURATION PROJECTS.

NOTE 7
MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE EQUAL TO THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 25 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 50 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS.

TRAFFIC CONTROL DETAIL (BRIDGES A,B,C & D)		
Drawn	SC	6/16
Design	SC	6/16
Checked	SC	6/16
TRAFFIC ENGINEERING TAREK MAAROUF		
STATE OF OKLAHOMA	DIVISION 2	JOB/PROJECT NO. 24333(14)
		SHEET NO. T002

REVISIONS		
REV. NO.	DESCRIPTION	DATE

THERE IS NO SUGGESTED SEQUENCE OF CONSTRUCTION IN THIS DRAWING. INSIDE AND OUTSIDE LANES SHALL BE WORKED AS STATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE DETAILS SHOWN ARE FOR ONE LANE OF TRAFFIC CONTROL. ALL TRAFFIC CONTROL FOR THE ALTERNATE LANE WILL BE OPPOSITE OF THAT SHOWN.



NOTE 1
MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES (FEET) SHALL BE TWICE THE POSTED SPEED LIMIT (M.P.H.) WITH THE FOLLOWING EXCEPTIONS. SPACING SHALL NOT EXCEED 50 FEET FOR CONES OR TUBE CHANNELIZERS. SPACING SHALL NOT EXCEED 75 FEET FOR CHANNELIZER CONES, SPACING SHALL NOT EXCEED 100 FEET FOR TYPE II BARRICADES, VERTICAL PANELS OR DRUMS.

NOTE 2
A MINIMUM OF FIVE (5) CHANNELIZING DEVICES SHALL BE PLACED THROUGH THIS AREA.

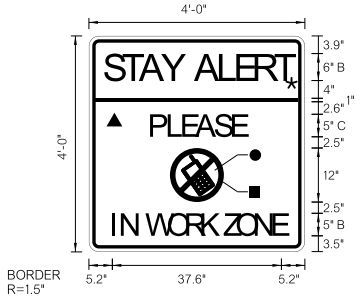
NOTE 3
THE SHADOW VEHICLE SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE WHENEVER WORKERS ARE IN THE WORK AREA. THIS VEHICLE SHALL BE REMOVED FROM THE ROADWAY WHENEVER WORKERS ARE NOT IN THE WORK AREA. THIS VEHICLE SHALL BE EQUIPPED WITH AN ACTUATED FLASHING OR REVOLVING YELLOW LIGHT.

THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT CONTACT AT ALL TIMES AND SHALL BE POSITIONED TO PROTECT THE WORKERS.

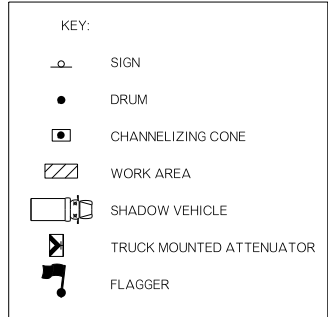
WHEN NO WORK IS BEING PERFORMED AND TWO LANE TRAFFIC IS OPERATING, FLAGGERS WILL NOT BE REQUIRED. WHENEVER FLAGGERS ARE NOT PRESENT, THE "FLAGGER" SIGNS SHALL BE REMOVED OR COVERED.

FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.

NOTE 4
A LONGITUDINAL BUFFER AREA, TO ALLOW WORKERS TIME TO EVACUATE THE WORK AREA, SHOULD BE PROVIDED. FOR GUIDELINES ON SETTING THE LENGTH OF THIS BUFFER, SEE STANDARD DRAWING TCS2-1 (LATEST REVISION). ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND THE JUDGEMENT OF THE ENGINEER.



- KEY:**
- SIGN
 - DRUM
 - ◻ CHANNELIZING CONE
 - ▨ WORK AREA
 - ▭ SHADOW VEHICLE
 - ⚡ TRUCK MOUNTED ATTENUATOR
 - ⚣ FLAGGER
- COLOR:**
 LEGEND, SYMBOL AND BORDER: BLACK (NON-REFLECTORIZED)
 BACKGROUND: FLUORESCENT ORANGE (REFLECTORIZED)
 ▲ FLUORESCENT YELLOW (REFLECTORIZED)
 ● WHITE (REFLECTORIZED)
 ■ RED (TRANSPARENT)



NOT TO SCALE

TRAFFIC CONTROL DETAIL (UNDER BRIDGES C & D) (OVER BRIDGES E & F)		
Drawn	SC	6/16
Design	SC	6/16
Checked	KCD	6/16
TRAFFIC ENGINEERING TAREK MAAROUF		
STATE OF OKLAHOMA	DEPARTMENT OF TRANSPORTATION	
DIVISION 2	JOB/PIECE NO. 24333(14)	SHEET NO. T003