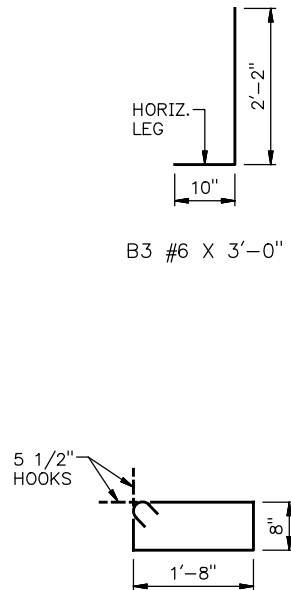


90° BEND LAYOUT PLAN

WEST BEND EAST BEND

NOTE
P.A.S. = DENOTES PLACED AS SHOWN



BAR BEND DETAILS

90° BEND SECTION QUANTITIES		
ONE BEND SECTION SHOWN, TWO REQUIRED		
DESCRIPTION	UNIT	TOTAL
CLASS AA CONCRETE	C.Y.	7.90
REINFORCING STEEL	LB.	2,760.00

90° BEND SECTION BAR LIST					
ONE BEND SECTION SHOWN, TWO REQUIRED					
MARK	NO.	SIZE	FORM	LENGTH	REMARKS
PLAIN REINFORCING BARS					
A2	52	#6	STR.	10'-8"	
A3	68	#6	STR.	8'-6"	
A4	24	#6	STR.	7'-4"	
B3	45	#6	BNT.	3'-0"	
B4	25	#6	BNT.	5'-5"	
B5	20	#6	BNT.	5'-8"	
C1	2	#4	STR.	5'-9"	
C2	2	#4	STR.	7'-9"	
D1	28	#4	BNT.	5'-7"	
E3	8	#4	STR.	10'-8"	
E4	4	#4	BNT.	4'-0"	
E5	4	#4	BNT.	8'-0"	

STRUCTURE 16 QUANTITIES		
DESCRIPTION	UNIT	TOTAL
UNCLASSIFIED EXCAVATION	C.Y.	1,430.00
STRUCTURAL EXCAVATION UNCLASSIFIED	C.Y.	128.00
CLASS AA CONCRETE	C.Y.	359.50
REINFORCING STEEL	LB.	54,480.00

GENERAL NOTES (90° AND 5° BEND SECTIONS ONLY)

DESIGN DATA
RCB STANDARD BARRELS AND STANDARD END SECTIONS DESIGNED IN ACCORDANCE WITH 2007 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND INTERIM SPECIFICATIONS FROM 2008.

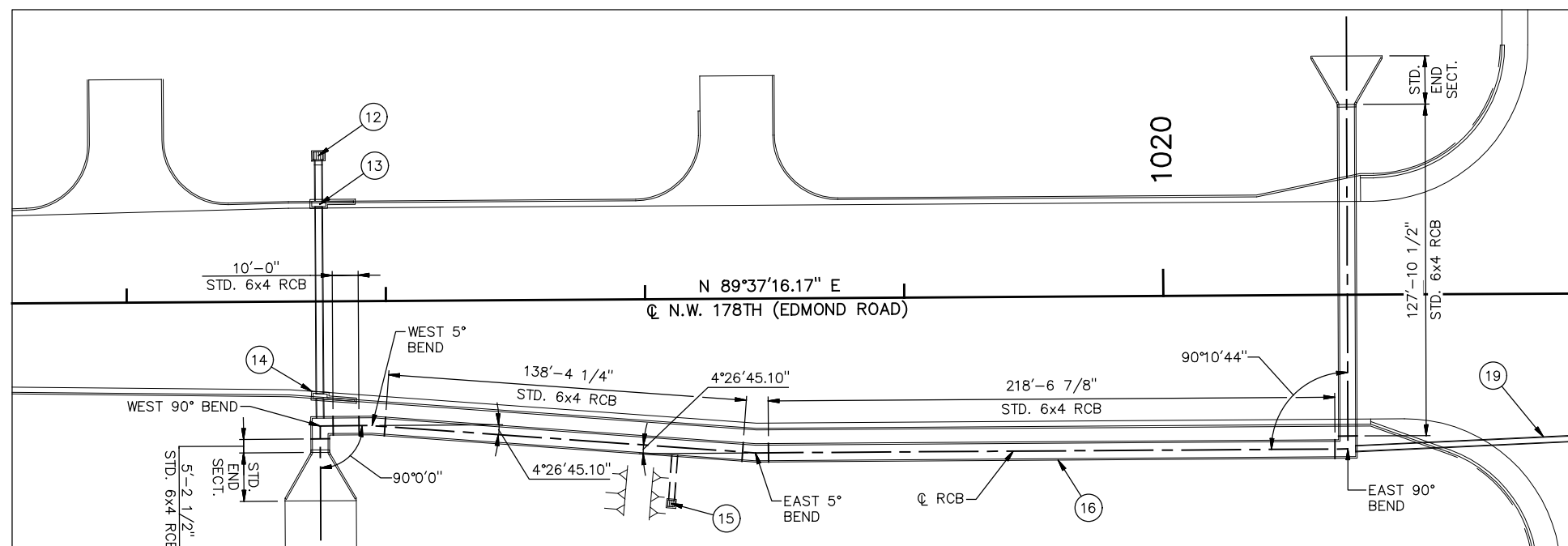
90° AND 5° BEND SECTIONS DESIGNED IN ACCORDANCE WITH 2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND 2016 INTERIMS.

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

GENERAL NOTE
ALL STATIONS AND OFFSETS REFER TO ϕ N.W. 178TH.

CONCRETE
ALL CONCRETE SHALL BE CLASS AA CONCRETE. ALL CONCRETE EDGES SHALL HAVE A 1 1/2" CHAMFER UNLESS OTHERWISE SHOWN OR NOTED. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER. OPENINGS IN THE WALLS OF RCB FOR R.C. PIPES HAVE BEEN DEDUCTED FROM THE CLASS AA CONCRETE QUANTITIES.

REINFORCING STEEL
ALL REINFORCING STEEL SHALL BE GRADE 60 AND HAVE A 2" MINIMUM CLEARANCE UNLESS OTHERWISE SHOWN ON THE PLANS. CONTRACTOR SHALL FIELD BEND AND FIELD CUT REINFORCING STEEL AROUND PIPE OPENINGS TO MAINTAIN A 2" MINIMUM CLEARANCE. OPENINGS IN THE WALLS OF RCB FOR R.C. PIPES HAVE NOT BEEN DEDUCTED FROM THE REINFORCING STEEL QUANTITIES. REINFORCING STEEL IN BOTTOM SLAB SHALL BE SUPPORTED ON BAR CHAIRS. CHAIRS SHALL BE SEPARATED ON TIMBER PLANKS OR CLASS C CONCRETE STRIPS SPACED AT 4'-0" CENTERS. THE TOP CHAIR SUPPORTS SHALL BE AT THE ELEVATION OF THE BOTTOM OF FOOTING. REINFORCING STEEL IN THE TOP SLAB SHALL BE SUPPORTED ON SLAB SPACERS. REINFORCING STEEL IN THE WALLS SHALL BE HELD IN PLACE BY METAL CHAIRS. MAXIMUM SPACING OF CHAIRS SHALL BE ON 6'-0" CENTERS. COST OF METAL CHAIRS, WOOD PLANKS, OR CONCRETE STRIPS SHALL BE INCLUDED IN OTHER ITEMS OF WORK. SOME REINFORCING STEEL BAR MARKS ARE REPEATED BETWEEN AND WITHIN STRUCTURES. TO ENSURE THAT ALL BARS ARE PLACED WITH THE CORRECT STRUCTURE OR COMPONENT, THE STRUCTURE NUMBER AND COMPONENT SHOULD ACCOMPANY THE BAR MARK.



STRUCTURE 16 RCB LAYOUT PLAN

STRUCTURE 16 DETAILS
(90° AND 5° BEND DETAILS)
(DETAIL 1 OF 4)