

- CONCRETE BOX CULVE

- QUANTITES -

PREPARATION OF STRUCTURE AT STA. 416+82.90	1	ΕA
EXCAVATION FOR BOX CULVERTS	1,785	СҮ
CLASS 47B-3000 CONCRETE FOR BOX CULVERT	219.4	СҮ
EPOXY COATED REINFORCING STEEL FOR BOX CULVERT	39,795	LBS
CRUSHED ROCK FOR BASE COURSE	37.6	СҮ
BRIDGE SHORING	1	LS

	PRELIMINARY PLAN	PROJECT NUL	MBER	SHEET NO.
	J	C. ST	N. 31983 RUCTURE N SO30 37	JUMBER 787
GENERAL NOTES, QUANTITIES, & INDEX GENERAL PLAN & ELEVATION REMOVALS & SHORING CONCRETE BOX CULVERT DETAILS 1 CONCRETE BOX CULVERT DETAILS 2 Shop plans required for record: Shop plans re Bridge Shoring None	main for review:	STNGIE SDAN 24' VIDE	CONCRETE BOX CULVERT	TATION - BRIDGE DIVISION

COUNTY PLATTE HWY. NO. US 30 HWY. NO. US 30 REF. POST. 377.87 STA. 416+82.90 DESIGNED BY BUM DESIGNED BY BUM
LOCATION COLUMBUS SOUTH SKEW 0° ROADWAY 28'-0" PESIGN LIVE LOAD HL-93 DETAILED BY NMF CHECKED BY ASI DEPARTMENT OF TRANSPC







	PRELIMINARY PLAN NOT FINAL - SUBJECT TO CHANGE	project NH-30	PROJECT NUMBER SHEET NO. NH-30-5(131) \$94	
DESIGN DATA			C.N. 31983	3
CULVERT DESIGN SINGLE SPAN	AT STATION 416+82.90		STRUCTURE	NUMBER
LL SKEW DES LOAD WINGS	WINGS ON WING SLOPE			//0/
FT. 0 DEG. HL-93 FLARED	ONE END 2.33:1			
SIDE $(TO) = 17.0$ SIDE $(TO) = 15.5''$ TOP $(TT) = 17.5''$				
$0 = 4^{\circ} - 2.0^{\circ}$			BDIDGE EN	CINEED
LENGTH BAR SIZE SPAC NO LENGT 1'- 10.0" W-1 5 12.0" 86 12'- 1	H BAR SIZE SPAC NO LENGT L.5" C-2 7 6.0" 170 12'- 3	H .0"		
7'-5.0" W-2 7 6.0" 170 12'-1 7'-5.0" W-3 7 6.0" 85 7'-7	L.5" S-1 8 6.0" 85 26'- 3 .5" S-2 4 12.0" 43 26'- 3	.0" .0"		Z
-1' - 8.0'' W-4 4 12.0'' 20 44' - 4 -1' - 8.0'' W-5 4 12.0'' 20 44' - 4 -1' - 8.0''	$.0^{\circ}$ S-3 S 12.0° 27 41° - 8 .0" S-4 S 12.0" 28 41' - 8	.0"		
BARREL) - FOR INFORMATION ONLY. SEE COV	ER SHEET FOR PAY ITEMS.		-	SIV
3.94 CY COATED) 830 LB			5' RT ILS	DIV
0.6 CY			10. VE.	
ONS	QUANTITIES FOR WINGS ON ONE END		x CUL	U D
$= 14.0''$ $- 6.0'' \qquad N = 5' - 0.0''$	FOR INFORMATION ONLY. SEE COVER PAY ITEMS.	SHEET FOR	24 X (SIL
Q = 8' - 2.0'' Q = 8' - 2.0'' S = 1' - 9.0''	CONCRETE REINFORCING (EPOXY COATED)	53.9 CY 4,935 LB	AN BO	2023
0' - 6.0'' 0 = 4' - 1.5''	BASE COURSE	12.4 CY	SP, TE	JUL
NOTE:			RE BC	JE N
SEE PLAN VIEWS AND SECTIONS FOR PAUL	ARAPET BARS, TURNDOWN BARS AND OTHE	R	NGI NC ETE	DA I'I(
* FILL VALUE IS AN AVERAGE AND INCLU	IDES CONCRETE PAVEMENT AND ASPHALT (OVERLAY.	SI CO VCR	₩.
SEE ROADWAY PLANS.			CO	RT
NOTES				ASF
/idth.				BY
all be 18" when the barrel turndown is ca the barrel turndown, then the spacing of	st as a unit with the barrel floor. I the No.4 bent bars in the barrel tu	rndown		KED (A)
Jwances will be made for additional No.4	Dent Dars required because of redu	iceu dai	НТІ	TR
s shall be 18" in the wing footing turndo	wns with or without construction Jo	olnts.	200L	CI DF
3-3000, with a 28-day strength of 3,000	psi.		BUS HI	
ed from the face of the concrete to the four floor and wing footings, $1^{1}/2^{\prime\prime}$ f	surface of a reinforcing bar shall or skew bars at parapets, 1½" for	#4 ties,		MF
ess noted otherwise. Freid bend and/or o ends.	np remforcing bais to maintain mi	nimum	COL 28'-(TE L	BY N
epoxy coated and conform to the requirer S. units.	nents of ASTM A615/A615M, Grade 6	60 steel. All	10N 0° VAY 2 V LIV	LED I R T N
shall be based on quantities as shown on making splices.	CA7 EW ADV SIGN			
per foot of barrel include concrete and steel in floor, walls and slab for one-foot			LO SK RO DE	DE DE
cross section.				
pars snall meet the requirements of the A	АЗНІО LKFD Bridge Design Specifi	cations,		MX
for one end include all concrete and stee	l beyond vertical planes passing		4 <i>TTE</i> 30 77.8	<u>r</u> BJI
skew bars shall be placed normal to the	centerline of culvert		PL <i>H</i> US -82.9	B B A
5. Place S-2 bars with alternating C-2 bar	°S.		ЧТҮ NO. POS'. 416+	E B
. Place F-2 bars with alternating C-1 bar	S.		OUN WY. EF.	ESIC
option of using dowel bars to match vert	cal wall bars as shown in the Optic	onal	S H R S	A
I be made for additional steel required f	or bar laps.		NEBRA	SKA
perforated drainage pipe, and all other m Il be considered as subsidiary to other it	ilscellaneous drainage items at the v ems for which payment is made.	wings that	Good Life. Grea	nsportation
IONS TABLE				
$\frac{\Pi C}{'-4.0''} = \frac{\Pi T}{3'-0.0''}$				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
'- 5.0" 2'- 11.0"	BURNS		SPECIAL PLAN NO.	4
			4	5

