# MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

2(6.0' x 3.0') CONCRETE BOX CULVERT

 $6\frac{3}{8}'' \pm$ 

22°10′39″±

6'-10"±

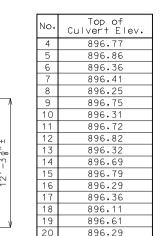
1 ADDED —

6'-10"±

 $7\frac{3}{4}'' \pm$ 

14'-8"±

 $9' - 7\frac{5}{8}" \pm$ 



BR MO 66 JOB NO. J7S0741 CONTRACT ID PROJECT NO. COUNTY JASPER DATE 27N RGE 33W SEC/SUR 3 & 10 TWP

ties			Final antities
lump sum	1		
cu, yard	<u>[66.6]</u> ≪		
pound	<u>4.910</u> ,		
pound	7.710	ΗП	
	lump sum cu. yard cu. yard pound	lump sum	TIPS   Qu   Iump sum   1   cu. yard   66.6   6   6   6   6   6   6   6   6

Cost of any required excavation for concrete box culvert will be considered completely covered by the contract lump sum price for Removal of Existing Culvert. (See Sec 206 and Sec 216)

# **GENERAL NOTES:**

#### Design Specifications:

2002 - AASHTO 17th Edition Load Factor Design

### Design Loading:

HS20 Modified Earth 120 #/ft.3 Equivalent fluid pressure 30 #/ft. (Max.) - 60 #/ft.

#### Design Unit Stresses:

Class B-1 Concrete (Bottom Slab & Walls) f'c = 4,000 psi Class B-2 Concrete (Top Slab) f'c = 4,000 psiReinforcing Steel (Grade 60) = 60,000 psi

#### Miscellaneous:

Minimum clearance to reinforcing steel shall be  $1\frac{1}{2}$ , unless otherwise shown.

"Sec" refers to the sections in the standard and supplemental specifications unless specified otherwise.

Top of bottom slab and inside faces of walls shall be built flush with the existing downstream structure.

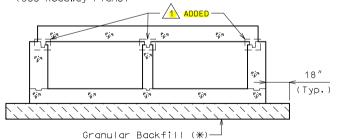
Outline of old work is indicated by light dashed lines. Heavy lines indicate new work.

Contractor shall verify all dimensions in field before ordering new material.

Use cast-in-place culvert only. Precast concrete box culvert option shall not be used.

# Traffic Handling:

Rte. 66 (W. 7th St.) shall be closed during construction. (See Roadway Plans)



## SECTION THRU BOX

(\*) If unsuitable material is encountered, excavation of unsuitable material and furnishing and placing of granular backfill shall be in accordance

B.M. #2, ELEV. 896.79, 80D NAIL STA. 289+24.76, 28.85 RT.

# CULVERT OVER STORM SEWER

STATE ROAD BETWEEN MOFFET AVE. AND BEYERS AVE.

IN JOPLIN PROJECT NO.

STA. 290+29.03±

JOB NO. J7S0741 RTE. 66 STD. 706.35 A7552

7'-0"± € Ellipitical R.C.P. (2) (3)-(1) Provide opening in wall to accept 15" R.C.P. with Invert Elevation of 892.14 @ Sta. 290+01.98, 21.45' Rt. of & Rte. 66. (2) Provide opening in wall to accept 24" x 38" Elliptical R.C.P. with Invert Elevation of 891.89 @ Sta. 290+37.45, 22.35' Lt. of & Rte. 66. Gutter Line (3) Verify and coordinate location and skew of pipe with roadway plan. imits of Granular Backfill Limits of Granular Backfill Exist. Sanitary Sewer (Do not disturb) — € R†e. 66 Note: Removal of existing culvert shall include the existing culvert, sidewalks, pavement and any other material required to be removed within the limits of removal shown in location sketch or as directed by Exist. Water Line (Do not disturb) Tie Sta. & Box Culvert @ & Rte. 66 = Sta. 290+29.03± Exist. 11' Arch Brick Culvert (U.I.P.) Limits of Right of Way, Limits of Removal & Limits of Excavation 160°19′8″± 39°2′15′ € 15" R.C.P Gutter Line Limits of Removal € R+e. 66 -Limits of Removal € Structure -Tie Sta. € Box Culvert @ € Rte. 66 = S+a. 290+29.03± Proposed Culvert No. A7552 **—11** Existing Structure (to be removed)  $9' - 7\frac{5}{8}" \pm$ 7 <del>3</del>" ±  $7\frac{3}{4}'' \pm$ 11 -Limits of Right of Way, Limits of Removal & Limits of Excavation 11 9'-77"± -Exist. Dbl. 6′ x 3.5′ PLAN SHOWING LAYOUT DIMENSIONS Conc. Box Culvert LOCATION SKETCH Designed Feb. 2007 Detailed Mar. 2007

Sheet No. 1 of 8



Checked June 2007