BENCHMARK: ELEV. 440.39 CHISELED SQUARE ON NE WINGWALL OF EXISTING STRUCTURE, 21.5' RT STA 32+94

BENCHMARK: ELEV. 448.07 SPIKE NAIL IN POWER POLE, 40' RT STA 30+28

EXISTING STRUCTURE: S.N. 024-0007 WAS ORIGINALLY CONSTRUCTED IN 1921 UNDER SBI-5, SECTION 21-A AS A SINGLE SPAN SLAB SUPERSTRUCTURE ON CLOSED ABUTMENTS SUPPORTED BY SPREAD FOOTINGS. LENGTH OF THE EXISTING STRUCTURE IS 20'-O" AND THE WIDTH IS 44'-4" OUT TO OUT. THE EXISTING STRUCTURE IS NOT SKEWED AND IS TO BE COMPLETELY REMOVED AND REPLACED. THE ROAD WILL BE TEMPORARILY CLOSED DURING CONSTRUCTION.

STATION 33+04

BUILT 2 0 _ _ BY STATE OF ILLINOIS

F.A.P. RTE. 823 SEC. 21B-1

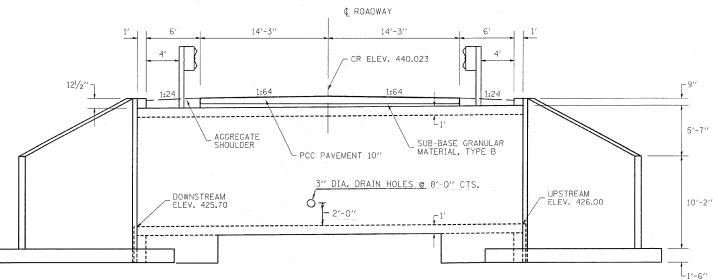
LOADING HS 20-44 STR. NO. 024-2007

NAME PLATE

* See Highway Standard 515001-03 for

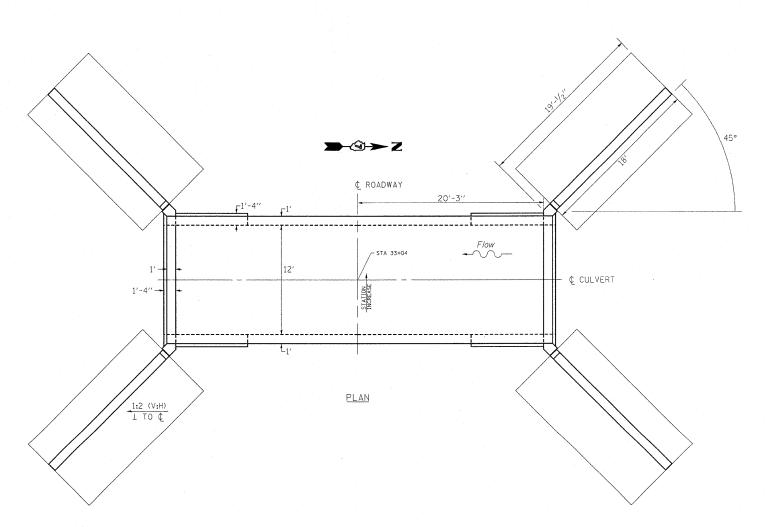
* Name Plate will be paid for at the contract unit price per "EACH" for "NAME PLATES".

dimensions and placement.



END ELEVATION

DIMENSIONS AT RIGHT ANGLES TO & ROADWAY



NOTES

EXCAVATION BEHIND ABUTMENT WALLS SHALL BE PERFORMED TO BALANCE FRONT AND BACK SOIL PRESSURE BEFORE REMOVING THE SUPERSTRUCTURE.

BUILD TOPS OF HEADWALLS PARALLEL TO PROFILE GRADE.

ALL PORTIONS OF THE PRECAST BOX CULVERT IN CONTACT WITH THE CAST-IN-PLACE CONCRETE SHALL BE SANDBLASTED ACCORDING TO ART, 503,09(B).

CONCRETE AND REBAR QUANTITIES AND LENGTHS CALCULATED FOR THE CAST-IN-PLACE END SECTIONS WILL VARY BASED ON THE PRECAST BOX CULVERTS SUPPLIED.

END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR BOX CULVERT END SECTION, AS OUTLINED IN ART. 540.08, WHICH PRICE SHALL INCLUDE ALL CONCRETE, REBAR AND ALL OTHER ITEMS NECESSARY TO COMPLETE THE PROPOSED WORK. THE BOX CULVERT END SECTIONS SHALL BE BUILT IN THE FIELD AND A PRECAST OPTION IS NOT ALLOWED.

DRAIN HOLES SHALL BE PROVIDED IN ACCORDANCE WITH ART. 503.11.

THE JOINTS BETWEEN PRECAST BOX SECTIONS SHALL BE SEALED AND ALL VOIDS FILLED WITH A MASTIC JOINT SEALER. IN ADDITION, THE JOINTS SHALL BE EXTERNALLY SEALED ON ALL FOUR SIDES WITH A 13 INCH WIDE EXTERNAL SEALING BAND. THE SEAL SHALL BE CENTERED OVER THE JOINT, SECURED IN PLACE AND PROTECTED DURING THE BACKFILLING PROCESS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PRECAST BOX CULVERT.

VOIDS BETWEEN THE PRECAST CONCRETE BOX CULVERT AND THE CAST-IN-PLACE TOEWALL/CUTOFF WALL SHALL BE FILLED WITH NON-SHRINK GROUT.

DRAWINGS NOT TO SCALE.

ALL BARS SHALL CONFORM TO THE REQUIREMENTS OF ART. 1006.10 OF STANDARD SPECS.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THE PRECAST CONCRETE BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M273.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

ALL CONSTRUCTION JOINTS SHALL BE BONDED.

EXPANSION BOLTS SHALL BE $\frac{3}{4}$ " DIA, HOOKED BOLTS, HOOKED BOLTS SHALL EXTEND 6" INTO CONCRETE COLLAR, THE COST OF THE BOLTS SHALL BE INCLUDED IN THE COST OF BOX CULVERT END SECTION,

ALL DIMENSIONS ARE IN FEET(') - INCHES(") UNLESS OTHERWISE NOTED.

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
c:\pw_work\pwidot\staffanmk\dms52291\D7	74213-sht-culv.dgn	DRAWN -	REVISED -
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 3/19/2009	DATE -	REVISED ~

STATE OF	ILLINOIS
DEPARTMENT OF	TRANSPORTATION

GENERAL F	PLAN A	ND	ELEVA	TION 1	l2'x12'	PRECAST	BOX	CULVERT	
	STATIO	N 33	3 + 04	STRUC	TURE	NO. 024–2	007		
SCALE:	SHEET	NO.	OF	SHEETS	S STA		TO	STA.	

l	ILLINOIS FE). A	L		
			CONTRACT	NO	74217
823	21B-1		Edwards	24	9
F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.