BENCH MARK: BM 208
STA. 173+49.760, 35.343' LT, ELEV. 658.542
RAILROAD SPIKE IN NORTH FACE OF SECOND POWER POLE EAST OF ANDERSON ROAD, NORTH SIDE OF ROUTE 30.

EXISTING STRUCTURE: N/A

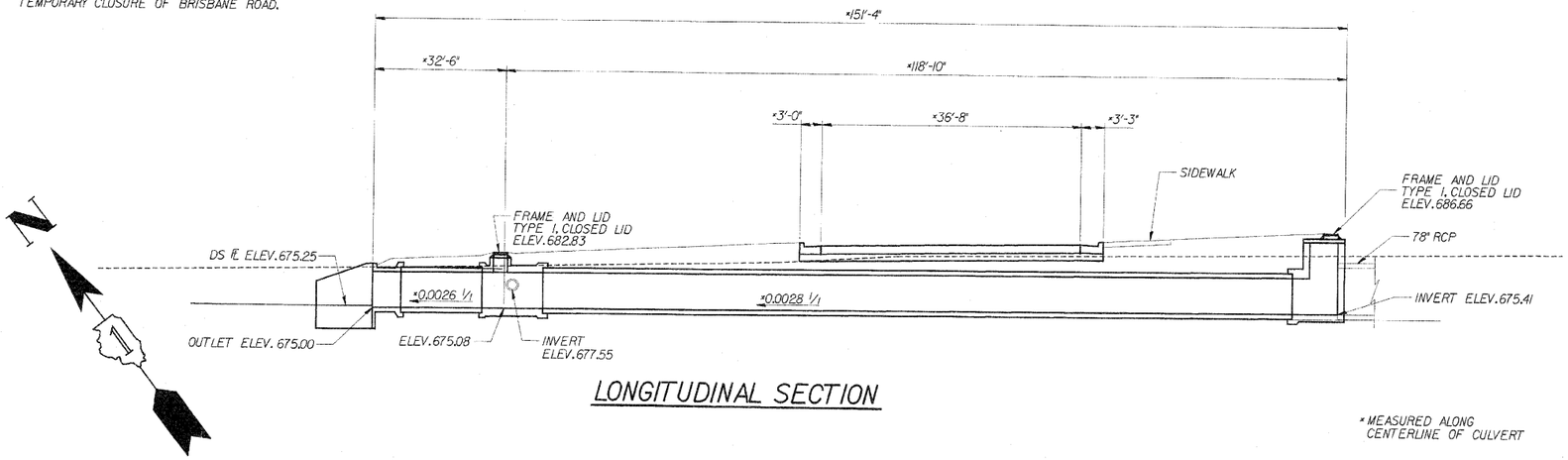
PROPOSED IMPROVEMENTS:
CONSTRUCTION OF A NEW 7'-0" X 5'-0" BOX CULVERT DURING STAGE I CONSTRUCTION OF US 30, WITH TEMPORARY CLOSURE OF BRISBANE ROAD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 353	*	WILL	1235	630
FED. ROAD DIST.		ILLINOIS	FED. AID PROJECT	

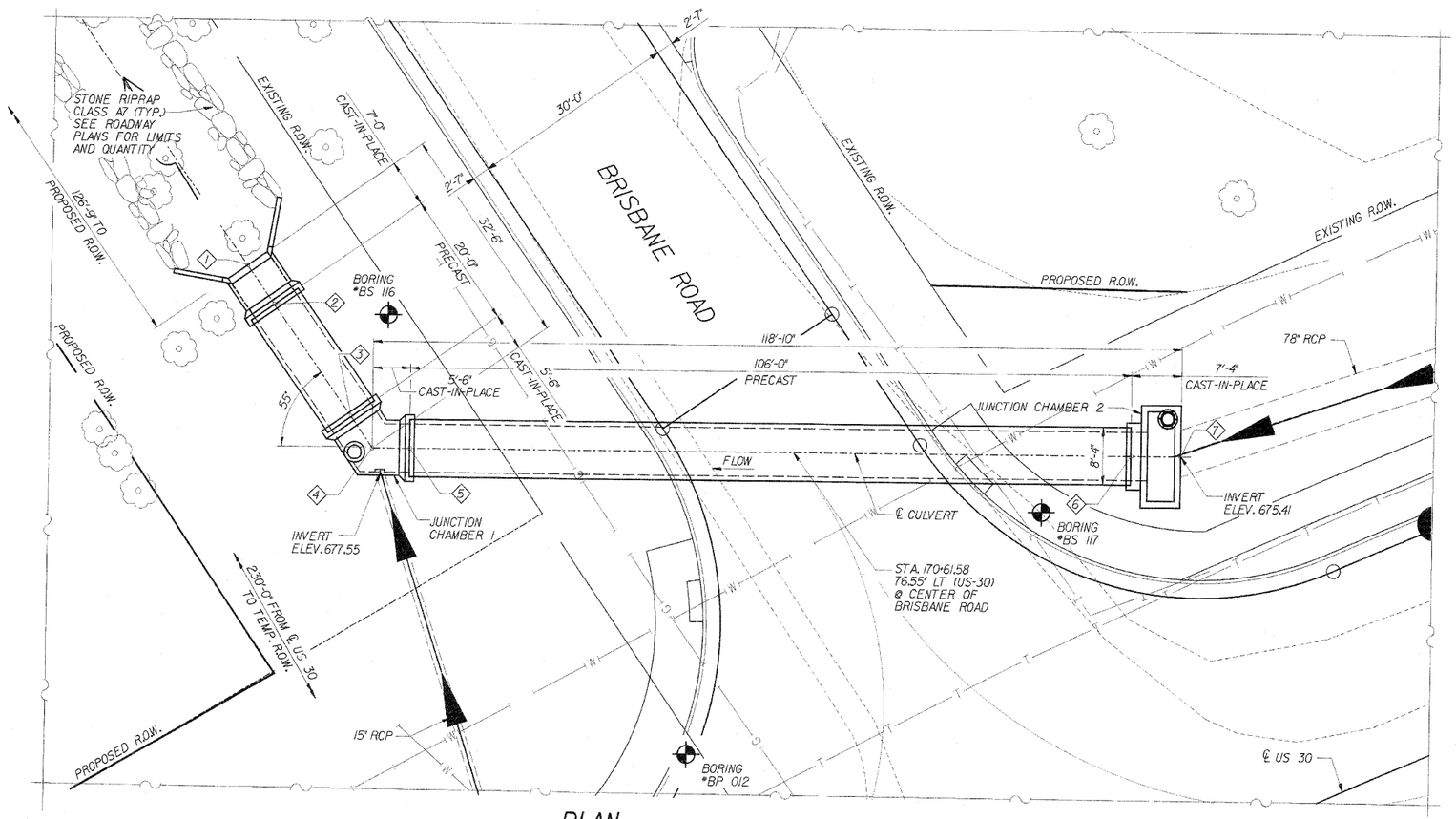
*SECT. (12 & 13) WRS-3
*CONTRACT NO. 62479

SHEET NO. 1
9 SHEETS



LONGITUDINAL SECTION

*MEASURED ALONG CENTERLINE OF CULVERT



PLAN

PT.	STATION	OFFSET
1	170+01.04	135.42' LT.
2	170+02.12	128.51' LT
3	170+05.22	108.77' LT
4	170+06.09	103.34' LT.
5	170+10.88	100.97' LT
6	171+04.67	56.82' LT
7	171+11.26	53.89' LT.

DESIGNED	ASP
CHECKED	CDS
DRAWN	BEM
CHECKED	ASP

STATION 170+61.58
BUILT BY
STATE OF ILLINOIS
FAP 353 SECT. (12 & 13) WRS-3
LOADING HS20
STR. NO. 099-C012

NAME PLATE

NOTE: SEE STANDARD DRAWING 515001 FOR NAME PLATE DETAILS.

GENERAL NOTES

1. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR60. SEE SPECIAL PROVISIONS.
2. CAST-IN-PLACE BARREL SHALL BE POURED MONOLITHICALLY WITH WINGWALLS.
3. EXPOSED EDGES SHALL HAVE A ¾" CHAMFER.
4. IN ACCORDANCE WITH ARTICLE 540.04 OF THE STANDARD SPECIFICATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH "PRECAST CONCRETE, BOX CULVERT 7'x5'". CLEAN FILL (GRANULAR) MATERIAL WILL ONLY BE ALLOWED.
5. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M259 (DESIGN FILL HEIGHT= 3'-0")
6. THE CONTRACTOR SHALL PREPARE IN-STREAM WORK PLANS (ALL COFFERDAMS, WORK PADS, AND EROSION AND SEDIMENT CONTROL, ETC.) AND SUBMIT TO THE ENGINEER AND THE U.S. ARMY CORP OF ENGINEERS FOR REVIEW AND APPROVAL. THE CONTRACTOR SHOULD EXPECT TO HAVE TO ATTEND MEETINGS AT THE USACOE OFFICE TO DISCUSS THEIR WORK PLAN IN ORDER TO SECURE THEIR PERMIT. THE COST OF ALL IN-STREAM WORK ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
REINFORCEMENT BARS	POUND	7,294
NAME PLATES	EACH	1
CONCRETE BOX CULVERTS	CU. YD.	37.2
PRECAST CONCRETE BOX CULVERT 7' x 5'	FOOT	126.0
FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	2

DESIGN SPECIFICATIONS

AASHTO 2002 SPECIFICATIONS.

LOADING HS20-44

ALLOW 50#/SQ.FT. FOR FUTURE WEARING SURFACE.

DESIGN STRESSES

FIELD UNITS

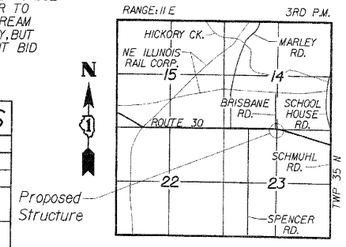
f'c = 3,500 PSI
fy = 60,000 PSI (REINFORCEMENT)

PRECAST UNITS

f'c= 5,000 PSI
fy = 60,000 PSI (REINFORCEMENT)

PROFILE GRADE - US 30

℄ P.G. WBD. & EBD.



LOCATION SKETCH

WAYNE A. TRUEX
REGISTERED STRUCTURAL ENGINEER
081-005429
STATE OF ILLINOIS
Wayne A. Truex 7-6-10
Agonies 11-30-10

DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

REVISIONS	
NAME	DATE

CULVERT 'C' GENERAL PLAN

U.S. ROUTE 30 (LINCOLN HIGHWAY)
F.A.P. 353 (U.S. 30)
SECTION (12 & 13) WRS-3
STATION 170+61.58, 76.55' LT.
WILL COUNTY
STRUCTURE NUMBER 099-C012