

718.50

718.64

718.93

0.89

1.46

0.89

1.07

1.45

7/9.39

7/9.7/

720.39

7/9.39

719.71

720.38

DRAWN

CHECKED

DESIGN

MAX.CALC.

OVERTOPPING

PROFILE GRADE

100

500

112

16.52

17.50

19,53

17.50

19.53

ROUTE NO. SECTION \* 1235 672 FAP 253 WILL FED. ROAD DIST. ILLINOIS FED. AID PROJECT

11 SHEETS

SHEET NO. 1

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

### DESIGN SPECIFICATIONS

AASHTO 2002 SPECIFICATIONS.

## LOADING HS20-44

ALLOW 50\*/SO.FT.FOR FUTURE WEARING SURFACE.

#### DESIGN STRESSES

FIELD UNITS

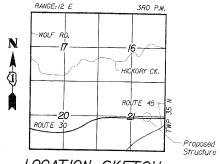
f'c = 3,500 PSI fy = 60,000 PSI (REINFORCEMENT)

PRECAST UNITS

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

# GENERAL NOTES

- I. 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 THE WINGWALLS.
- 3. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER.
- 4. IN ACCORDANCE WITH ARTICLE 540,04 OF THE STANDARD SPECIFICATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DVERT STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH "REMOVAL OF EXISTING STRUCTURES NO. 10". CLEAN FILL (GRANULAR) MATERIAL WILL ONLY BE ALLOWED. WILL ONLY BE ALLOWED.
- 5. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M259 (DESIGN FILL HEIGHT \* 15'-0")
- 6. A CANTILEVERED SHEET PILING DESIGN DOES
  NOT APPEAR FEASIBLE AND ADDITIONAL
  MEMBERS OR OTHER RETENTION SYSTEMS MAY
  BE NECESSARY.THE CONTRACTOR SHALL SUBMIT
  A TEMPORARY SOIL RETENTION SYSTEM DESIGN
  INCLUDING PLAN DETAILS AND CALCULATIONS
  FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
- 7. 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.



LOCATION SKETCH



NAME PLATE

NOTE: SEE STANDARD DRAWING 515001

FOR NAME PLATE DETAILS.

85 W. Algonquin Rd. Ste. 220 Arlington Heights II 60005

#### CULVERT 'H' GENERAL PLAN U.S. ROUTE 30 (LINCOLN HIGHWAY)

F.A.P.353 (U.S.30)

SECTION (12 & 13) WRS-3

STATION 401+72.78

WILL COUNTY

STRUCTURE NUMBER 099-COIR