



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	10-32HB-3,K	CHAMPAIGN	352	67

CONTRACT NO. 90758  
1"=50'

**WATERWAY INFORMATION**  
**CULVERT #19**

DRAINAGE AREA = 743 ACRES      LOW GRADE ELEV. = 699.26      @ STA. 43+50

FLOOD	FREQ. YR.	C.F.S. (m <sup>3</sup> /sec.)	OPENING SQ. FT. (m <sup>2</sup> )		NAT. H.W.E.	HEAD - FT. (m)		HEADWATER EL.	
			EXIST.	PROP.		EXIST.	PROP.	EXIST.	PROP.
DESIGN	50	385	N/A	99	695.5	N/A	0.5	N/A	696.0
BASE	100	437	N/A	99	696.0	N/A	0.5	N/A	696.5
OVERTOPPING									
MAX. CALC.	500	559	N/A	99	697.0	N/A	0.8	N/A	697.8

**TEMPORARY DITCH CHECKS** ↕  
RAMP C  
STA. 31+92 RT.  
STA. 37+43 LT./AGGREGATE  
STA. 38+15 RT.  
STA. 39+73 LT.  
STA. 41+72 RT./AGGREGATE  
STA. 44+00 RT./AGGREGATE  
STA. 46+00 RT.  
STA. 54+80 RT.  
I-57  
STA. 295+36 MEDIAN/AGGREGATE

**PIPE UNDERDRAINS 4 INCH** ———  
STA. 30+45 LT. TO STA. 37+93 LT. - 747.7 FEET  
STA. 31+26 RT. TO STA. 32+40 RT. - 114.0 FEET  
STA. 36+23 RT. TO STA. 57+08 RT. - 2,085.2 FEET

**INLET & PIPE PROTECTION** ↕  
RAMP C  
STA. 40+66, 55' RT.  
I-57  
STA. 293+83, 3' RT.  
STA. 293+83, 92' RT.  
STA. 293+58, 90' LT.  
STA. 293+82, 90' LT.  
STA. 294+08, 90' LT.

**PIPE UNDERDRAINS 4 INCH (SPECIAL)** ———  
STA. 32+40 RT. - 14.0 FEET  
STA. 34+45 LT. - 14.0 FEET  
STA. 37+93 LT. - 14.0 FEET  
STA. 40+23 RT. - 14.0 FEET  
STA. 43+52 RT. - 14.0 FEET  
STA. 43+52 RT. - 14.0 FEET  
STA. 53+52 RT. - 14.0 FEET  
STA. 57+08 RT. - 18.0 FEET

**PERIMETER EROSION BARRIER - 272.2 FEET**  
STA. 41+40, 55' RT. TO STA. 44+05, 32' RT.

**SPECIAL DITCH WIDTH = 5 FEET**  
STA. 17+00 TO STA. 20+20 (CURTIS)  
STA. 31+50 TO STA. 42+65 (RAMP C)

**PERIMETER EROSION BARRIER - 1,113.8 FEET**  
STA. 274+16.22, 162.4' LT. TO STA. 285+30, 156.1' LT.

**INLET, TYPE B, TYPE 1 FRAME,**  
OPEN LID STA. 45+00 18.2' LT., 1.0 EACH

**STORM SEWER, CLASS A, TYPE 2, 12" - 49'**  
WITH END SECTION, 12" - 1 EACH  
STA 45+00 18.2' LT, U.S. INV. = 694.89  
STA 45+00 30.7' RT, D.S. INV. = 694.18  
SLOPE = 1.5%  
TRENCH BACKFILL = 6.8 CU. YD.

**PERIMETER EROSION BARRIER**  
EXPLORATION TRENCH  
WOVEN WIRE FENCE, 4'

40+22.69, 19.5' RT.  
ELEV. = 700.59

43+52.24, 22.3' RT.  
ELEV. = 696.40

285+40.87  
179.29' LT

283+92.46  
154.12' LT

286+92.96  
179.54' LT

**PROPOSED CULVERT #19**  
CAST IN PLACE REINFORCED CONCRETE BOX CULVERT,  
11' X 9' - 165.3 FEET  
STA. 40+75.19, 48.9' LT., U.S.F.L. = 687.31  
STA. 42+17.84, 32.5' RT., D.S.F.L. = 687.15  
SKEW 61.6° LEFT FORWARD  
PRECAST OPTION NOT ALLOWED

**STATION EQUATION:**  
STA. 28+20.30 (CURTIS ROAD) =  
STA. 297+20.45 (F.A.I. RTE 57)

PAVED SHOULDER REMOVAL  
STONE RIPRAP CLASS A-4, SEE DETAIL

**BRIDGE APPROACH DRAIN**  
SEE HIGHWAY STANDARD 610001-02  
PCC SHOULDERS 8" - 16.7 SO.YD.  
END SECTIONS 12" - 1 EACH  
PIPE DRAINS 12" - 118'  
CONCRETE CURB - 15'  
CONCRETE THRUST BLOCKS - 1 EACH  
TYPE F INLET BOX - 1 EACH

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**RAMP C**  
**SOUTHWEST QUADRANT**  
**PLAN**