

LONGITUDINAL SECTION ALONG & CULVERT

VARIES

39'-23 WARIES

16'-0 16'-0

VARIES

My Bi

2:14

VAR. 2:1

-EXIST. 5'x6' SINGLE RCB

4'-0 REMOVAL OF EXISTING CULVERT AND WINGWALLS

-EXISTING ROW

FULL DEPTH PCC PATCH

STA. 973+44.77

-PROPOSED 5'x6' RCB CULVERT EXTENSION (TYP.)

-PROPOSED 5'x6' HEADWALL (STANDARD PWH - 15° SKEW) TYP.

DESIGN FILL HEIGHT = 5'-0 ANTICIPATED SETTLEMENT = NEGLIGIBLE

974+00 3:1 6:1

3:1 6.5:1

973+00

6'-0

NOTES:

IT IS THE INTENT OF THIS DESIGN TO EXTEND THE EXISTING 5'X 6' REINFORCED CONCRETE BOX CULVERT WITH 19 DEGREE SKEW BY REMOVING 4' OF THE CULVERT AND THE CULVERT WINGWALLS ON THE SOUTH END AND REMOVING THE CULVERT WINGWALLS AS REQUIRED ON THE NORTH END AND ADDING A 5' x 6' x 24' & 5' x 6' x 21' REINFORCED CONCRETE BOX CULVERT EXTENSIONS WITH 15 DEGREE HEADWALLS ON THE SOUTH AND NORTH ENDS RESPECTIVELY.

THE RCB CULVERT EXTENSION IS DESIGNED FOR EARTH FILLS OF 5 FEET.

ALL UNITS ARE IN FEET UNLESS OTHERWISE NOTED OR SHOWN.

SEE ROAD SHEETS FOR ADDITIONAL INFORMATION ON PROPOSED GRADING LIMITS.

DRAINAGE THROUGH EXISTING CULVERT/CHANNEL MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.

SEE H SHEETS FOR RIGHT OF WAY.

HEADWALLS SHALL BE PLACED LEVEL.

REMOVAL OF PORTIONS OF EXISTING CULVERT WINGWALLS AS REQUIRED

EXISTING CATWALK.

(UAC)-3,6:1

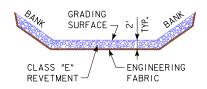
972+00 SITUATION PLAN

BENCH MARK NO. 7: STA. 973+38.85, TOP OF RIGHT OF WAY RAIL, SOUTH SIDE US 6, 33.58' R., ELEV. 775.43

> VPI STA = 978+70.00 VPI ELEV = 788.10 +1.8989%

VPI STA = 969+00.00 VPI ELEV = 769.68

> PROFILE GRADE ON US 6 (UAC)



ESTIMATED REVETMENT QUANTITIES INCLUDED WITH ROAD PLANS		
LOCATION	REVETMENT CL. "E" (TON)	ENGINEERING FABRIC (SY)
INLET	27.3	53
OUTLET	27.3	53
TOTALS	54 . 6	106

HYDRAULIC DATA

DRAINAGE AREA = 70.4 ACRES $Q_{50} = 342 \text{ CFS}$ ROLLING

UTILITIES LEGEND:

TI - COOPERATIVE TELEPHONE COMPANY

- IOWA NETWORK SERVICES

G - ALLIANT ENERGY FO2 - MCI

FO3 - MEDIACOM

T2 - WINDSTREAM COMMUNICATIONS

FO4 - SOUTH SLOPE COOPERATIVE -x - FENCE

LOCATION

ON US 6 OVER DRAINAGE DITCH T-80N R-IOW SECTION 35 WASHINGTON TOWNSHIP IOWA COUNTY LATITUDE 41.776044 LONGITUDE -91.986139

TRAFFIC ESTIMATE

2014 AADT 2600 V.P.D. 2034 AADT 3200 V.P.D. TRUCKS DESIGN ESALs 1,000,000

DESIGN FOR 19° SKEW (R.A.)

5'x6' REINFORCED CONCRETE BOX CULVERT EXTENSION

SITUATION PLAN

STATION 973+44.77 (US 6)

DECEMBER, 2017

IOWA COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION DESIGN SHEET NO. 3 OF 7 FILE NO. 31463 DESIGN NO. 417

IOWA COUNTY

PROJECT NUMBER STPN-006-6(52)--2J-48

SHEET NUMBER 34

EXISTING ROW

BH/LG/JS