

# DRAINAGE STRUCTURE IMPROVEMENT DETAIL

## LOCATION #16 STA. 972+52

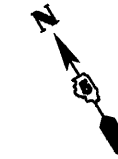
LOC. #16 STA. 972+52

**NOTE:**

THE EXISTING STRUCTURE AT STATION 972+52 IS A 5'x4' R.C. BOX CULVERT THAT IS IN GOOD CONDITION. THERE IS SIGNIFICANT SCOUR BETWEEN THIS STRUCTURE AND THE ADJACENT BOX CULVERT UNDER THE FRONTAGE ROAD. THERE IS ALSO A LARGE SCOUR HOLE AT THE DOWNSTREAM END OF THE R.C. BOX UNDER THE FRONTAGE ROAD. THERE ARE ALSO TREES GROWING AT BOTH ENDS OF THE STRUCTURE CARRYING FAI-74.

THE PROPOSED SCOPE OF WORK IS TO GRADE THE CHANNEL BETWEEN THE STRUCTURES AND DOWNSTREAM OF THE FRONTAGE ROAD STRUCTURE TO ACCEPT A TREATMENT OF RIPRAP TO PREVENT FUTURE SCOUR. ALSO, THE TREES AT EACH END OF THE MAINLINE STRUCTURE SHALL BE REMOVED AND PROPERLY DISPOSED OF.

ITEM # AND DESCRIPTION	UNIT	QUANTITY
21400100 Grading and Shaping Ditches	FOOT	59
28000305 Ditch Check Temporary	FOOT	15
28000500 Inlet and Pipe Protection	EACH	1
28100107 Stone Rip Rap Class A4	SQ YD	78.1
28200200 Filter Fabric	SQ YD	78.1
X2010350 Tree Removal Acres, Special	ACRE	0.016



TREE REMOVAL ACRES, SPECIAL

☉ F.A.I. 74 | 970+00 | 971 | 972 | 973 | 974 | 975+00

TREE REMOVAL ACRES, SPECIAL

GRADING AND SHAPING DITCHES (SEE SHEET \* 139 & 140)  
STONE RIP RAP A4

FRONTAGE ROAD

190'  
EXISTING  
R.O.W. LINE

GRADING AND SHAPING DITCHES (SEE SHEET \* 140 & 141)  
STONE RIP RAP A4

FILE NAME =	USER NAME = hoganbj	DESIGNED - BJM	REVISED -
at:\pwork\pwork\dot\hoganbj\d0158340\0570	52-shr-sm struct det.dgn	DRAWN -	REVISED -
	PLOT SCALE = 1/8" = 20'	CHECKED -	REVISED -
	PLOT DATE = 10/21/2010	DATE - 09/23/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-2011), 21, 22 IRS-3	McLean	150	66
CONTRACT NO. 70550				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20'    SHEET NO. OF SHEETS    STA. TO STA.