

# DRAINAGE STRUCTURE IMPROVEMENT DETAIL

## LOCATION #16 STA. 972+52

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| 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    |



**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.

TREE REMOVAL ACRES, SPECIAL

☉ F.A.I. 74

| 970+00

| 971

| 972

| 973

| 974

| 975+00

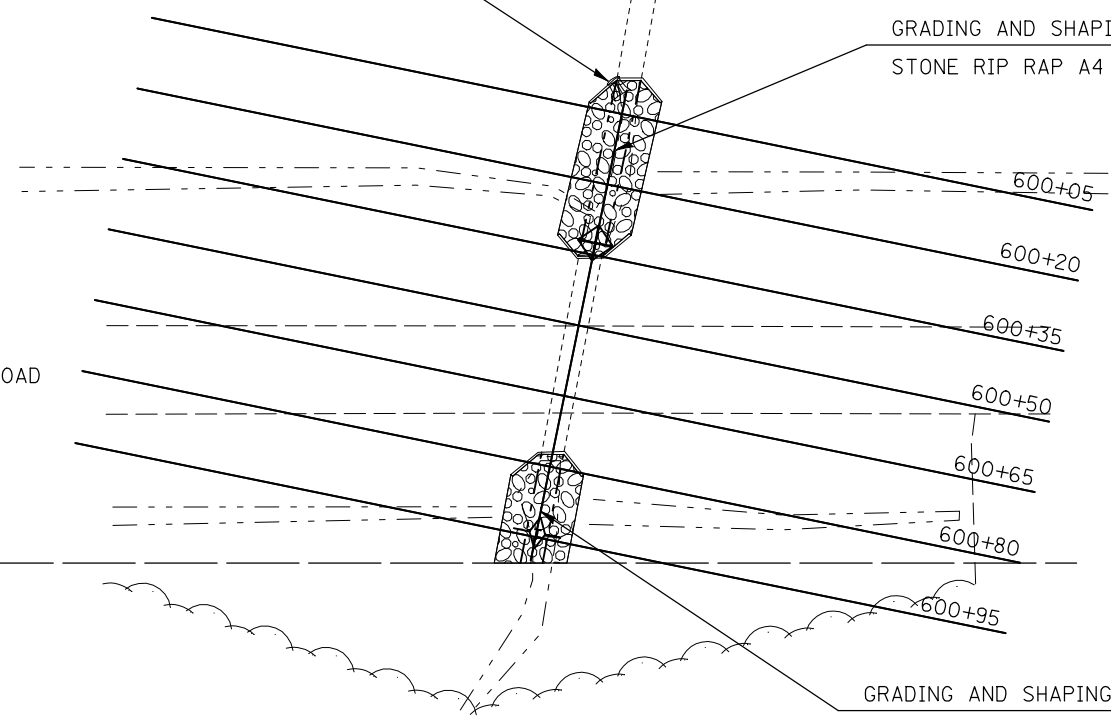
TREE REMOVAL ACRES, SPECIAL

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 - |
| ct:\pw\work\p\dot\hoganbj\d0158340\0570650\sh-t-sm_struct_det.dgn |                             | DRAWN -         | REVISED - |
|   | PLOT SCALE = 40.0000' / IN. | CHECKED -       | REVISED - |
|   | PLOT DATE = 10/21/2010      | DATE - 09/23/10 | REVISED - |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE STRUCTURE IMPROVEMENT DETAIL  
LOCATION #16 STA. 972+52**

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

| F.A.I. RTE.               | SECTION              | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|--------|--------------|-----------|
| 74                        | (57-20(1),21,22)RS-3 | McLean | 150          | 66        |
| CONTRACT NO.              |                      |        | 70550        |           |
| ILLINOIS FED. AID PROJECT |                      |        |              |           |