

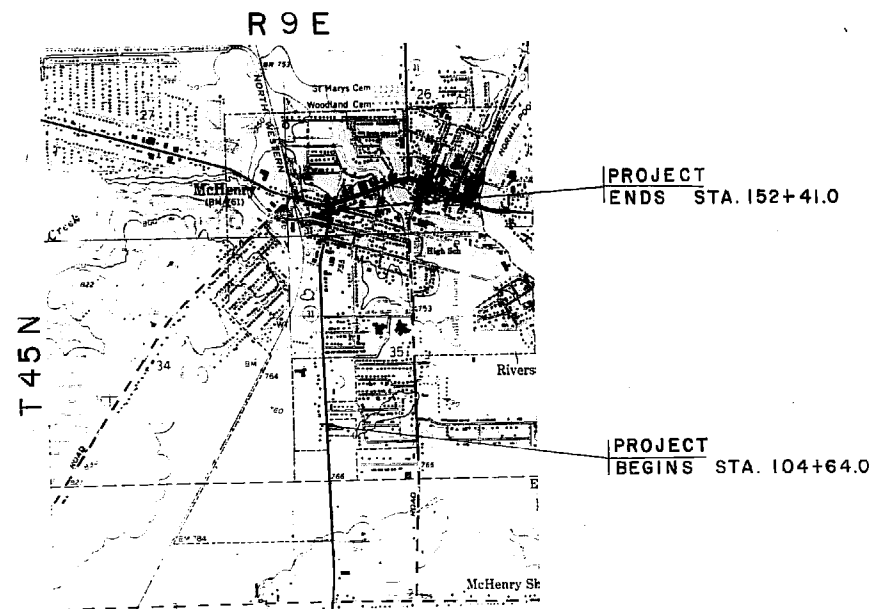
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLAN  
PROFILE HORIZ.  
PROFILE VERT.  
CROSS SECTIONS

1" = 20'  
1" = 20'  
1" = 2'  
1" = 10' H  
1" = 2' V

FAP ROUTE 860  
(ILL.ROUTE 31-FRONT STREET)  
SEC. 112 RS - 83  
PROJECT IX-860(35) & IX-860(36)  
Mc.HENRY COUNTY  
C-91-267-85 & C-91-282-85

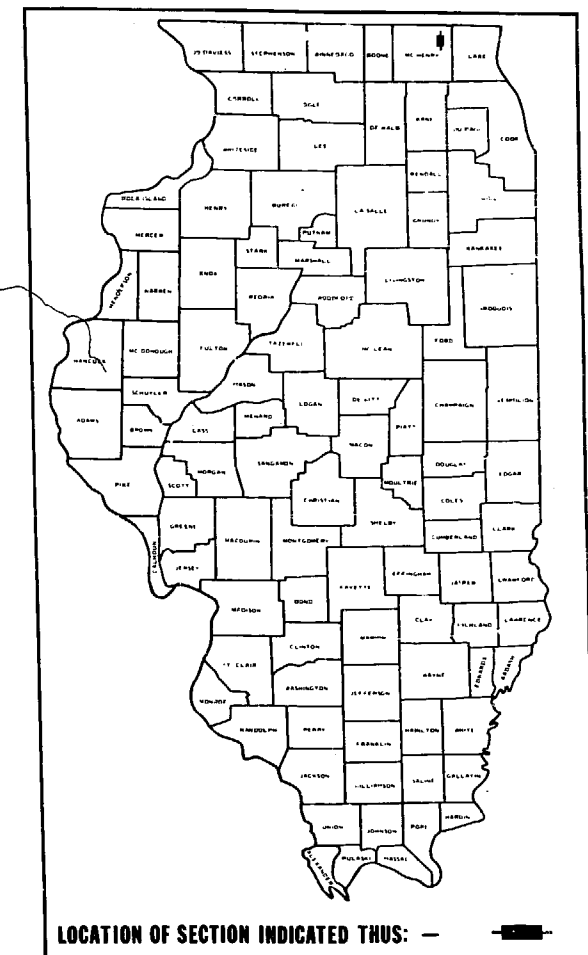


DESIGN DESIGNATION  
1450 (1995) MAJOR 3-55 (COMP-20)

PROJECT LENGTH  
GROSS LENGTH 4,777 FEET 0.9047 MILES  
NET LENGTH 4,777 FEET 0.9047 MILES

CONTRACT NO. 40387

| F.A.P.R.T.E.            | SECTION   | COUNTY    | TOTAL SHEETS | SHEET NO. |
|-------------------------|-----------|-----------|--------------|-----------|
| 860                     | 112 RS-83 | Mc. HENRY | 67           | 1         |
| P-91-782-83             |           |           |              |           |
| IX-860(35) & IX-860(36) |           |           |              |           |



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

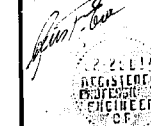
SUBMITTED July 26 1985  
Ralph C. Williams DISTRICT ENGINEER

EXAMINED August 23 1985  
Ralph C. Williams ENGINEER OF PLANS AND CONTRACTS

PASSED August 28 1985  
John A. Williams ENGINEER OF DESIGN

APPROVED August 23 1985  
John A. Williams DIVISION ADMINISTRATOR

SEAL  
LUIS F. ERA P.E.  
I.L.No. 062-029614

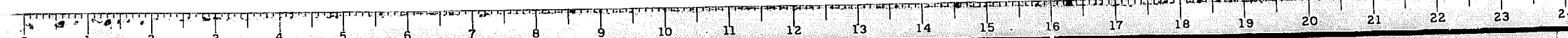


**d'ESCOTO Inc.**  
ARCHITECTS & ENGINEERS  
33 WEST JACKSON BLVD. SUITE N° 335  
CHICAGO - ILLINOIS - 60604  
312-663-9550

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR DATE



## INDEX OF SHEETS

## STATE STANDARDS

## GENERAL NOTES

| FEDERAL AID ROUTE NO. | SECTION   | COUNTY    | TOTAL SHEETS     | SHEET NO. |
|-----------------------|-----------|-----------|------------------|-----------|
| F.A.P. #60            | 112 RS-83 | Mc. HENRY | 67               | 2         |
| STA.                  |           | TO STA.   |                  |           |
|                       |           | ILLINOIS  | FED. AID PROJECT |           |

| SHEET NO. | TITLE                                                        |
|-----------|--------------------------------------------------------------|
| 1         | TITLE SHEET                                                  |
| 2         | INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES              |
| 3-4       | SUMMARY OF QUANTITIES                                        |
| 5-6       | TYPICAL SECTIONS                                             |
| 7         | ALIGNMENT & TIES                                             |
| 8-15      | PLAN AND PROFILES                                            |
| 16        | CROSS ROAD PROFILES                                          |
| 17-29     | CONSTRUCTION STAGING                                         |
| 30-32     | TRAFFIC SIGNAL INSTALLATION<br>LILLIAN ST - GROVE AVE.       |
| 33-36     | STRIPING AND MISCELLANEOUS                                   |
| 37-38     | BOX CULVERTS EXTENSION SPECIAL<br>FOR 4' x 10' and 1.5' x 4' |
| 39        | MANHOLE SPECIAL                                              |
| 40        | RESTRICTOR DETAILS AT MANHOLE                                |
| 41        | INLET BOX MODIFIED                                           |
| 42        | DETAILS OF STABILIZED & P.C.C. DRIVEWAY RETURNS              |
| 43        | MISCELLANEOUS DETAILS                                        |
| 44-63     | CROSS SECTIONS                                               |
| 64-65     | MISCELLANEOUS DETAILS                                        |
| 66-67     | LIGHT STANDARD RELOCATION PLANS                              |

|         |                                                                        |
|---------|------------------------------------------------------------------------|
| 1514-9  | CATCH BASINS TYPE A AND TYPE B                                         |
| 1527-9  | MANHOLE TYPE A                                                         |
| 1538-5  | CATCH BASIN TYPE C                                                     |
| 1686-4  | SYMBOLS AND ABBREVIATIONS                                              |
| 2117-1  | PATCHING DETAILS (BITUMINOUS)                                          |
| 2122-12 | CONCRETE MEDIANS                                                       |
| 2130-9  | CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER                 |
| 2203-12 | P.C.C. BASE COURSE WITH BITUMINOUS CONCRETE BINDER AND SURFACE COURSES |
| 2213-4  | FRAME AND LIDS, TYPE I                                                 |
| 2299-10 | DESIGN OF TRAFFIC CONTROL DEVICES                                      |
| 2300-3  | FLAGGER TRAFFIC CONTROL SIGN                                           |
| 2319-4  | SIGNS PANEL MOUNTING DETAILS                                           |
| 2323-5  | PAVEMENT JOINTS                                                        |
| 2354-1  | PRECAST REINFORCED CONCRETE FLAT SLAB TOP                              |
| 2356    | SIDEWALK RAMPS FOR THE HANDICAPPED                                     |
| 2368    | DETAILS OF CONCRETE AND MORTAR HANDHOLES                               |
| 2369    | DETAILS OF DOUBLE HANDHOLES AND JUNCTION BOXES                         |
| 2370-1  | DETAILS OF DETECTOR INSTALLATIONS                                      |
| 2371-1  | DETAILS FOR MOUNTING TRAFFIC SIGNALS                                   |
| 2373    | DETAILS OF SERVICE INSTALLATIONS                                       |
| 2374-1  | DETAILS OF STEEL MAST ARM ASSEMBLY AND POLE                            |
| 2378-1  | DETAILS OF CONCRETE FOUNDATIONS                                        |
| 2393    | STANDARD SEQUENCES FOR TRAFFIC ACTUATED CONTROLLERS                    |
| 2397    | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES                         |
| 2327-8  | SUB-SURFACE DRAINS                                                     |
| 2230-14 | S.P.B.G.R.                                                             |
| 2336-3  | TRAFFIC BARRIER TERMINAL TYPE 1A                                       |
| 2228-4  | METAL END SECTIONS FOR PIPE CULVERTS                                   |
| 2262-4  | PRECAST REIN. CONC. FLARED END SECTIONS                                |
| 2242-7  | INLET BOX FOR 4:1 MEDIAN SLOPE                                         |
| 2325-5  | GUARDRAIL MOUNTED ON EXISTING CULVERTS                                 |

U-1  
U-2  
U-3  
U-4 (MODIFIED)  
2302-5  
2305-5  
2306-6  
2307-6  
2311-8  
2312-8

APPLICATION OF TRAFFIC  
CONTROL DEVICES

All Frames and Grates damaged by the Contractor during construction will be replaced by the Contractor at his expense.

Pavement Marking: All Pavement Markings proposed within the work area shall be completed prior to construction phase change.

Flourescent Vest - All Construction Personnel will be required to wear Fluorescent Orange Vest at All Times while on the construction site. Compliance with this requirement shall be considered as incidental to the contract.

Verify Dimensions - It is the Contractor's responsibility to verify all dimensions and conditions existing in the field prior to construction and ordering materials.

Scale - Do Not scale plans for construction dimension.

Rates for supplemental watering are determined as 1.4 gal/s.yd each application. Actual number of applications shall be determined by the Field Engineer. Maximum number of applications are eight.

Any Damage to the reinforcement bars as a result of the Contractor's concrete sawing and/or concrete removal operation shall be corrected by the Contractor at no additional cost to the Contract.

Conduits owned by utility companies shall be temporarily supported and protected during construction by the Contractor. Contractor to submit details of proposed supports and protection methods and materials.

Before Construction Operations Commence, the Contractor shall locate all existing public utilities within the limits of this improvement and shall protect the public utilities from damage due to construction operations. Any damage to the existing public utilities resulting from excessive equipment loads or construction operations shall be replaced by the Contractor immediately at his expense.

The cost of furnishing and placing all expansion joint material for pavement, curb and gutter, sidewalks and driveway construction shall be included in the contract unit price for the applicable concrete work.

Adjustment of Frames and Grates - The adjustment of Frames and Grates on structures owned by utility companies will be done by their respective owners. All remaining Frames and Grates including those for municipal structures, shall be adjusted under this contract.

Thermoplastic Pavement Marking - All Thermoplastic Pavement Markings shall be extruded (typed E).

Sidewalk Ramps for the Handicapped - Sidewalk Ramps for the Handicapped shall be constructed as shown on the plans in accordance with the applicable details in STD No. 2356. All intersections shall have ramps for the handicapped. The Contractor shall schedule his work in such a manner that no trench for storm sewers will be allowed to be left open over night or on weekends all trenches shall be covered up at the end of each working day.

When during construction operations, any loose material is deposited in the flow line of the gutters or drainage structures so that the natural flow of water is obstructed it shall be removed at the close of each working day. At the conclusion of the construction operations, all drainage structures are to be free from all dirt and debris caused by his operations. The work specified above will not be paid for separately, but shall be considered as incidental to the Contract.

The Contractor's special attention is required to preserve trees and as much existing foliage as possible during the construction of the improvement. Cost of removal of hedges, brush and stumps which are not listed separately as a pay item in the plans shall be considered incidental to the Contract unit price for "Special Excavation". Plan quantities for tree removal have been based on removal of all trees interfering with the construction within the construction limits. This quantity may be reduced or increased during construction at the discretion of the Engineer.

When section or sub-section monuments are encountered in the course of excavating for paving, the Contractor shall notify the Engineer before such monuments are removed. The Contractor shall protect and preserve all property markers and monuments similarly encountered until the respective owner, or an authorized surveyor or agent, has witnessed or otherwise referenced their locations.

In the event section or sub-section markers and or permanent bench marks are encountered within the pavement area to be resurfaced, widened or reconstructed. The Contractor shall adjust same as directed by the Engineer, and shall be paid in accordance with Article 109.04 of the "Standard Specifications".

Construction Staging - The Contractor shall follow the plans and appropriate IDOT Standards unless authorized otherwise by the Engineer in writing. A minimum of one lane of traffic each way shall be provided at all time on Ill. Rte 31 for the duration of the Contract.

Resurfacing - Note that the depth of milling of the existing Bituminous Surfacing is to be a given distance below the top of the proposed roadway in order to produce a new roadway crown. Therefore, each pass of the milling machine shall be controlled by a mobile ski or an erected string line.

Bituminous materials (prime coat) shall be applied at a rate of 0.10 gal/s.y. Added expense which will be involved in connecting existing drain tiles, storm sewer or pipe culverts to proposed drainage system shall be considered incidental to the contract.

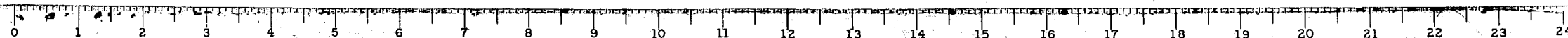
Protective coat shall be applied to all gutter flags and face of curbs.

All catch basins type A are 4' diameter and shall be constructed in conformity with standard 1514 except that halftraps shall be omitted unless otherwise noted on the plans.

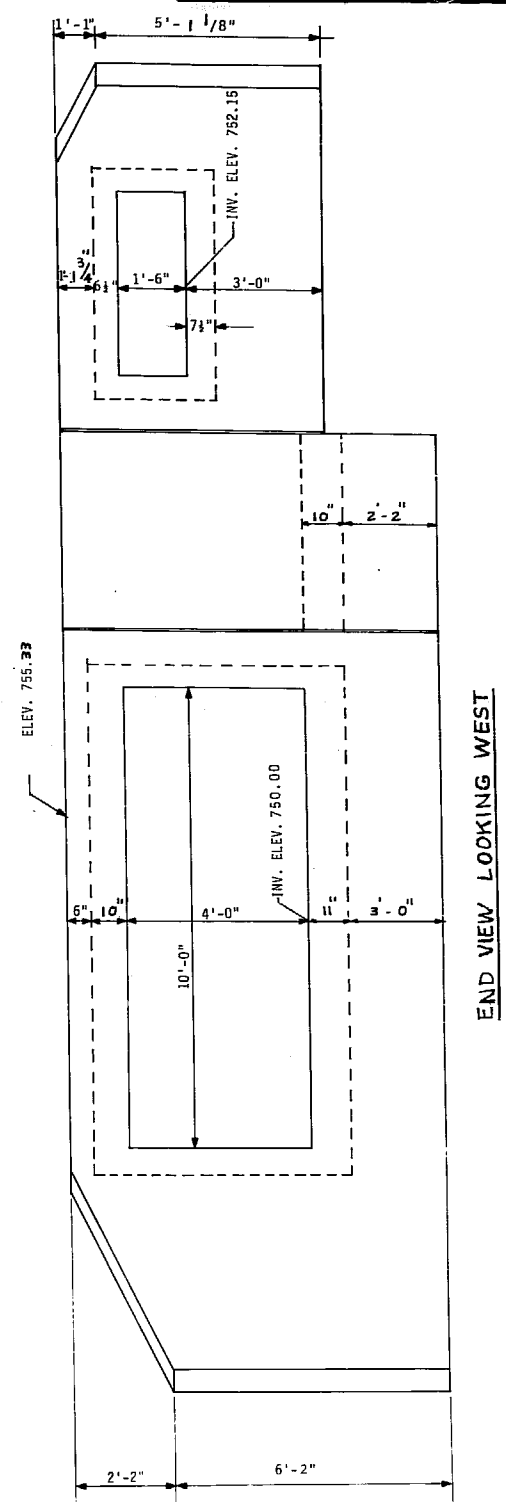
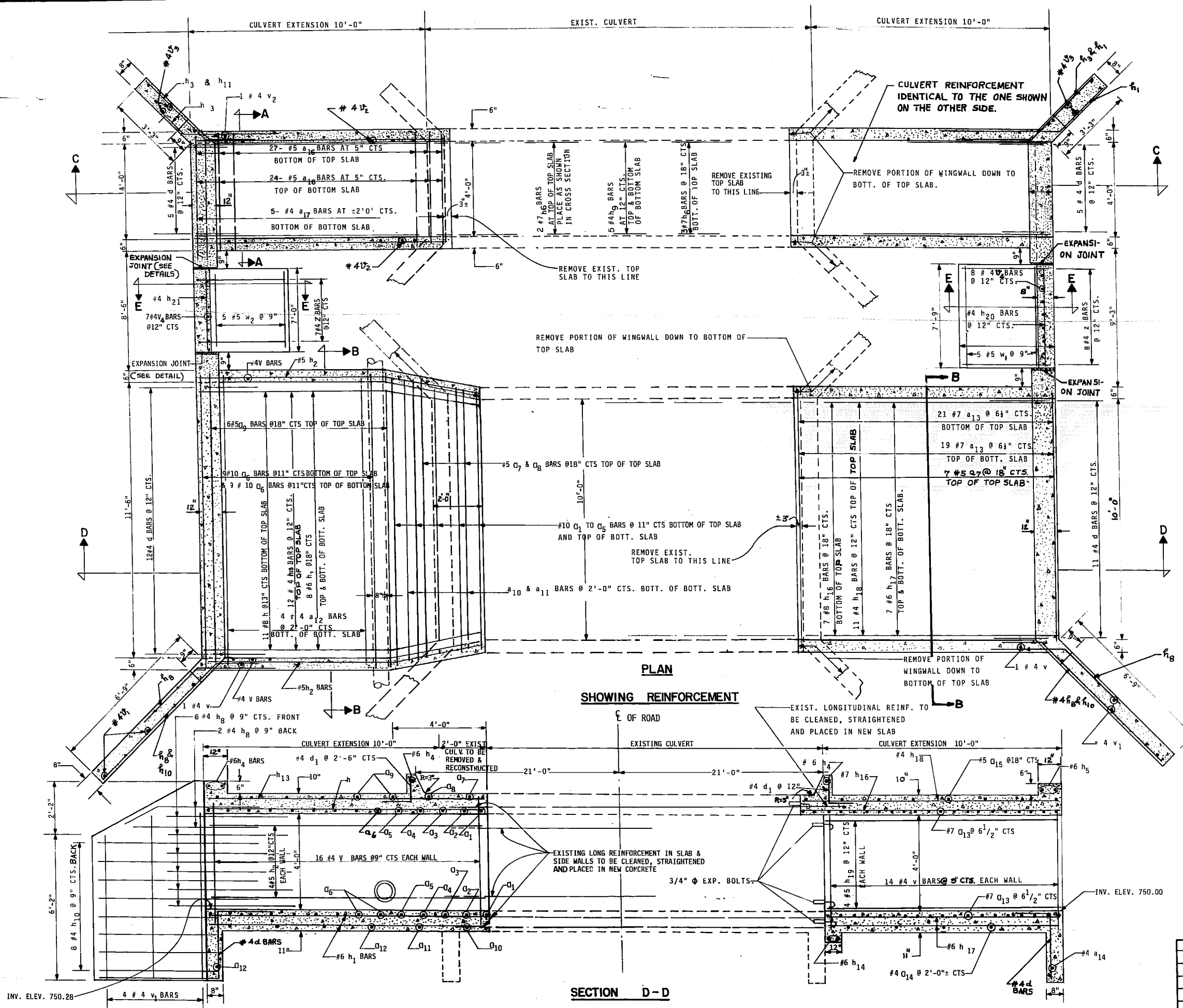
*All manholes outlet pipes shall be provided with restrictor plates as per details in the plans and cost of restrictor plate shall be considered incidental to manholes.*

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

|                                       |                        |
|---------------------------------------|------------------------|
| ILLINOIS DEPARTMENT OF TRANSPORTATION |                        |
| ILL. RTE. 31                          |                        |
| INDEX OF SHEETS                       |                        |
| STATE STANDARDS, GENERAL NOTES        |                        |
| SCALE                                 | VERT. HORIZ.           |
| DATE                                  | DRAWN BY<br>CHECKED BY |



| FEDERAL AID<br>ROUTE NO. | SECTION   | COUNTY           | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------------------|-----------|------------------|-----------------|--------------|
| F.A.P. 860               | 112 RS-83 | Mc. HENRY        | 67              | 37           |
| STA. _____ TO STA. _____ |           |                  |                 |              |
| _____ ILLINOIS           |           | FED. AID PROJECT |                 |              |



| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILL. RTE. 31

BOX CULVERTS EXTENSION SPECIAL  
STA. 120+30 & STA. 120+47.25

SCALE: VERT. DRAWN BY  
HORIZ. DATE CHECKED BY



| FEDERAL AID             | SECTION        | COUNTY | TOWNSHIP | SHEET |
|-------------------------|----------------|--------|----------|-------|
| RD 112                  | RS-83          | ILL.   | 67       | 10    |
| STA. 116+60             | TO STA. 122+60 |        |          |       |
| ILLINOIS FED. AID PROJ. |                |        |          |       |

