

Wm. Hasted

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$\Delta = 0^{\circ} 23' \text{ Lt. on g. Survey}$

Tile

Tile

Tile

Tile

0+0

ST.A. 718+1

+51 5" Tile

+12 3" Tile

+72 5" Tile

+28 4" Tile

+60 4" Tile

+33 4" Tile

+02 4" Tile

+57 3" Tile

+35 4" Tile

1A

+20

6

82

2-D 26'x11' 21" C/SHEET 1878

DATE ON EXISTING STRUCTURE  
S.E.E. C.I. NE HE 229-1339/130  
28-36' EX. WITH ONE ADD'L  
ROW. SEE STRUCTURE  
2-D 26'x11' 21" C/SHEET 1878

2/C

5A

10' PER MAG.

4" T.I.

+20

3" T.I.

+82 4" T.I.

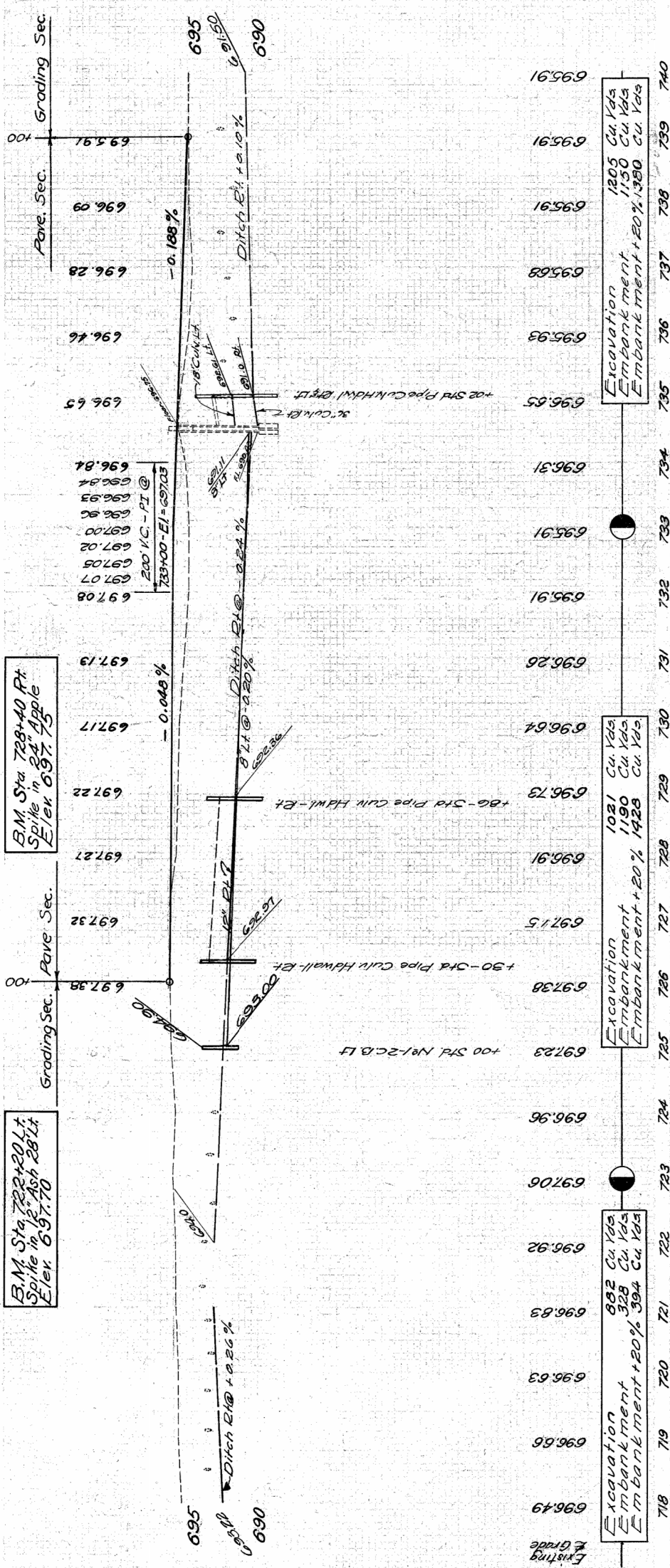
+15 4" T.I.

+32 4" T.I.

+12 4" T.I.

ST.A. 740

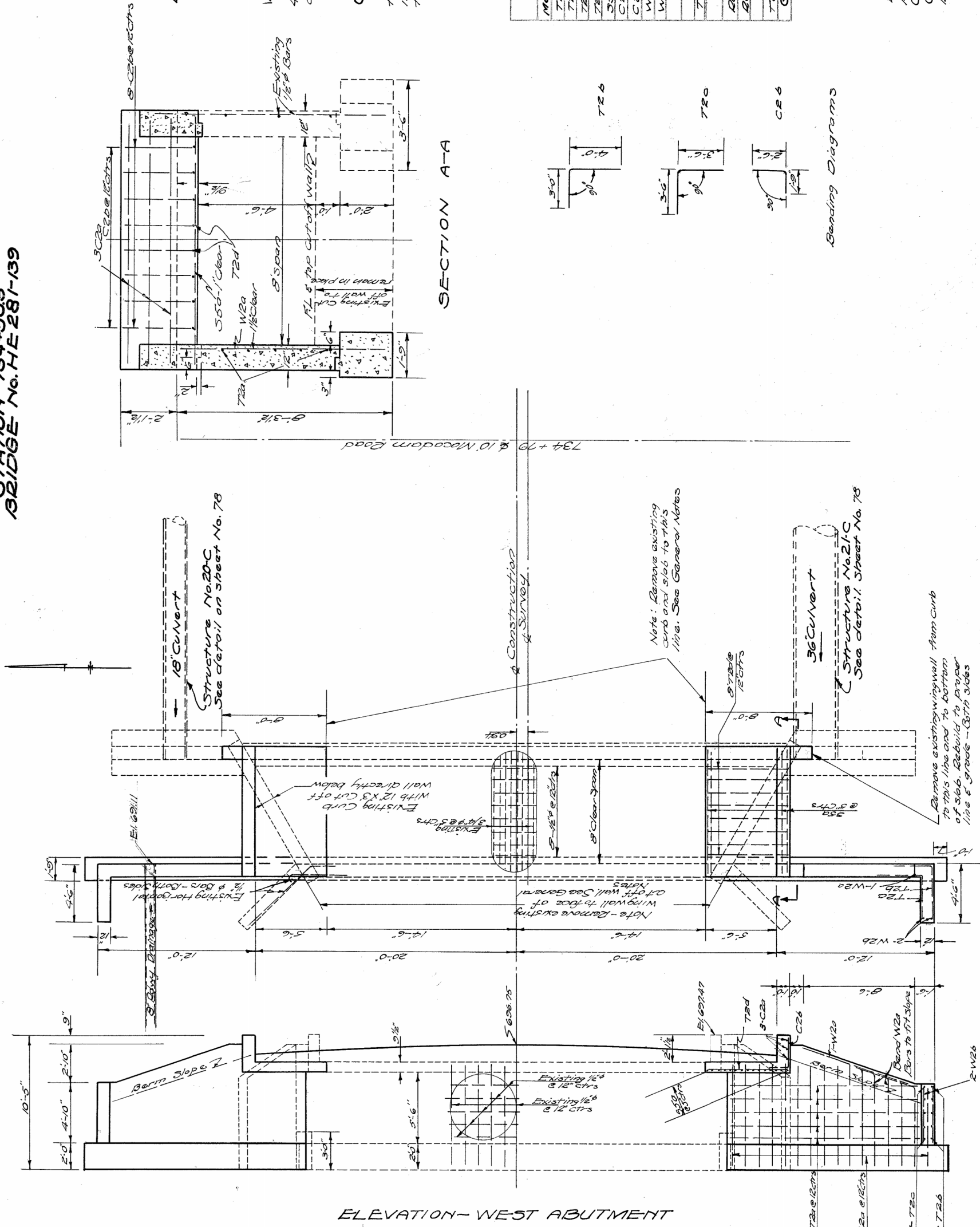
Ferdinand H. Roessing, Est.



STRUCTURE No. 19-C  
STATION 734+50.5  
BRIDGE No. HE 281-139

|                       |       |                   |                |
|-----------------------|-------|-------------------|----------------|
| FED. NO.<br>DIST. NO. | STATE | F.A.S.<br>PROJECT | FISCAL<br>YEAR |
| 10                    | OHIO  | F.A.S. 740-01     | 1940           |

HENRY COUNTY  
S.H. 591 SECS A, B, & C  
WOOD COUNTY  
S.H. 591 SECS D & CUSTAR (PA)



DATA ON EXISTING STRUCTURE  
TYPE: Concrete slab culvert, concrete abutments and wingwalls.  
SPAN: 8'-0" ROADWAY: 30' minimum CLEAR HEIGHT: 4'-6"  
CONDITION: Excellent  
DRAINAGE Area: 1066 Acres

WORK REQUIRED  
Widen existing structure on both sides to provide 40' clear roadway and extend wingwalls of West abutment as indicated. East wing walls not to be extended.

GENERAL NOTES  
Removal of existing wing walls and slab to lines indicated to be accomplished in such a manner that existing reinforcing steel from portion of structure not removed is preserved to form band between new and existing work.  
Chamfer all exposed edges 3/4".  
Standard Drawing: STC-34

SECTION A-A

REINFORCING STEEL LIST

| Mark | Size | Spacing  | Shape    | Length | Number | Weight |
|------|------|----------|----------|--------|--------|--------|
| T20  | 1/2" | 12" cts  | Straight | 14'-9" | 10     | 99     |
| T26  | 1/2" | 12" cts  | Bent     | 7'-0"  | 10     | 47     |
| T20  | 1/2" | 12" cts  | Bent     | 7'-0"  | 10     | 47     |
| T26  | 1/2" | 12" cts  | Straight | 6'-3"  | 10     | 67     |
| C26  | 1/2" | As shown | Straight | 9'-6"  | 30     | 428    |
| C26  | 1/2" | 12" cts  | Bent     | 4'-3"  | 16     | 38     |
| W20  | 1/2" | 12" cts  | Straight | 7'-9"  | 36     | 196    |
| W26  | 1/2" | As shown | Straight | 4'-6"  | 4      | 12     |

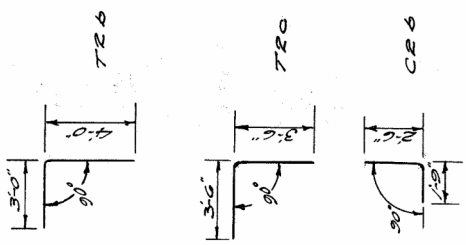
REPLACEMENT STEEL LIST

| Mark                    | Size | Spacing | Shape    | Length | Number | Weight |
|-------------------------|------|---------|----------|--------|--------|--------|
| T20                     | 1/2" | 12" cts | Straight | 6'-0"  | 1      | 4      |
| T26                     | 3/4" | 12" cts | Straight | 7'-0"  | 1      | 11     |
| Total Replacement Steel |      |         |          |        | 15     | 984    |

ESTIMATED QUANTITIES

|                                            |     |         |
|--------------------------------------------|-----|---------|
| Excavation for structures-Unclassified     | 16  | Cu. Yds |
| Removal of portions of existing Masonry    | 8   | Cu. Yds |
| Class 'E' Concrete for Footings            | 43  | Cu. Yds |
| Class 'C' Concrete for Walls, Slab & Curbs | 139 | Cu. Yds |
| Reinforcing Steel                          | 984 | Lbs     |

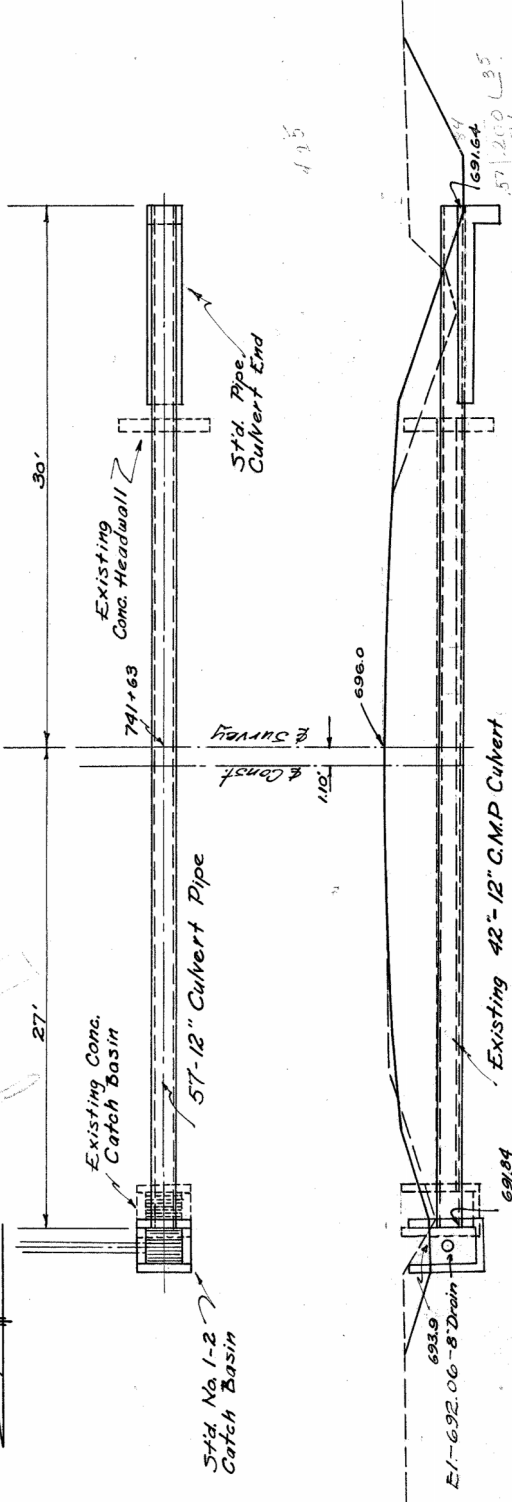
Bending Diagrams



Scale: 1/4" = 1'-0"

# STRUCTURE 22-C STATION 741+63

Scale: 1"=5'-0"



See Std. Drawings  
S-27 - PC-2  
S-27 - PC-3  
I-8 CB-1-2 & 2-2

## WORK REQUIRED

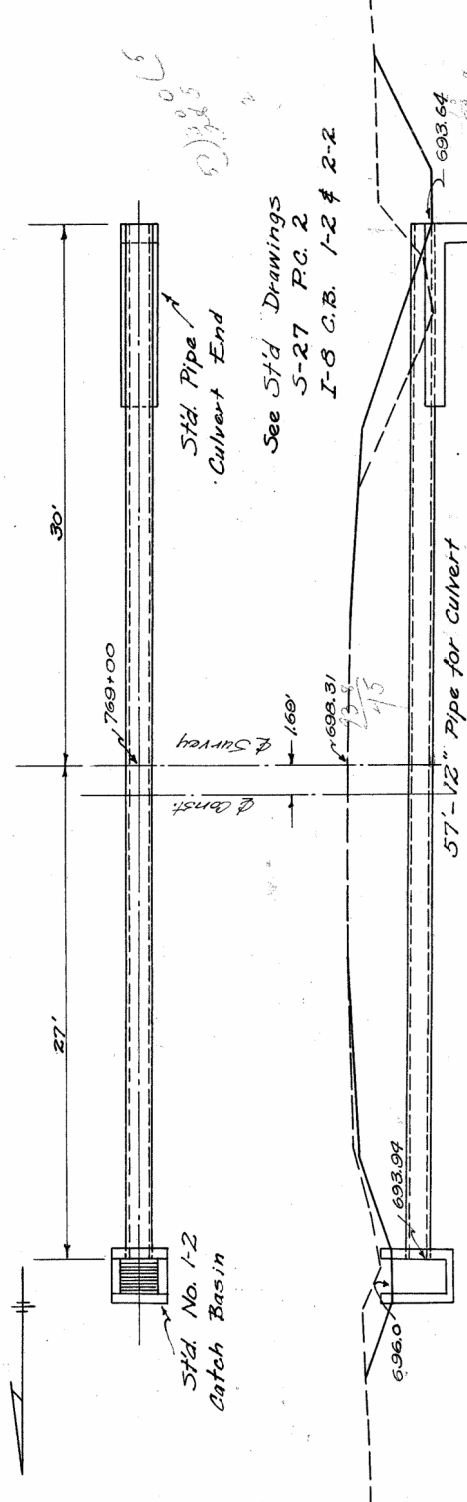
Remove and store existing 12" C.M. Pipe Culvert. Remove and dispose existing C.B. & Headwall. Construct new 12" Pipe Culvert, new Std. No. 1-2 C.B. on Left, & Std. Pipe Culvert End on Rt. Make all connections.

## ESTIMATED QUANTITIES

Structure Excavation - Unclassified 5 Cu Yds.  
Removal & Disposal of Existing Catch Basin 1 Each  
12" Pipe Removed & Stored 42 Lin Ft  
12" Pipe for Culverts 57 Lin Ft  
Std. No. 1-2 Catch Basin 1 Each  
Class "C" Concrete for Pipe Culvert End 0.6 Cu Yds.  
Removal of Existing Masonry 1 Cu Yd.

# STRUCTURE 23-C STATION 769+00

Scale: 1"=5'-0"



## WORK REQUIRED

Construct new 12" Pipe Culvert, new Std. No. 1-2 Catch Basin on Left, and Std. Pipe Culvert End on Right. Make all connections.

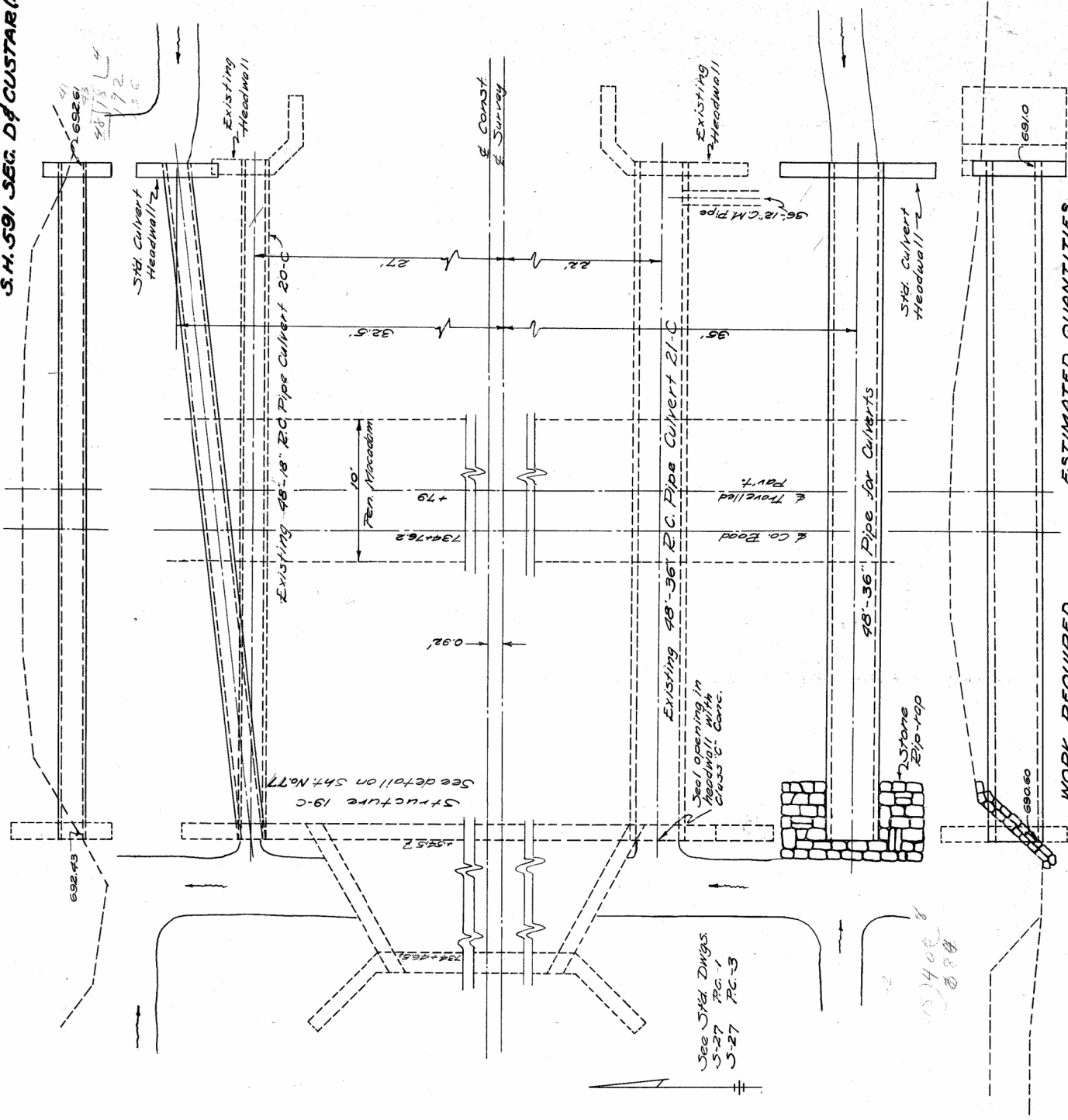
## ESTIMATED QUANTITIES

Structure Excavation - Unclassified 27 Cu Yds.  
12" Pipe for Culverts 57 Lin Ft  
Std. No. 1-2 Catch Basin 1 Each  
Class "C" Concrete for Pipe Culv. End 0.6 Cu Yds.

# STRUCTURES NO. 20-C & 21-C

STA. 734+79

Scale: 1"=5'-0"



## WORK REQUIRED

Remove existing 18" pipe culv. & existing headwall. Construct Std. Culvert headwall, and 18" Pipe culvert using existing and new culvert pipe. Make all connections.

## ESTIMATED QUANTITIES

Structure Excavation - Unclassified 24 Cu Yds.  
18" PC Pipe - Removed for reuse 48 Lin Ft  
18" PC Pipe - Relaid for culverts 48 Lin Ft  
18" Pipe for Culverts 48 Lin Ft  
Class "C" Concrete for Std. Culv. Hdwn 25 Cu Yds.  
Reinforcing Steel 20.39 Yds.  
Rem. & disposal of portions of ex. Masonry Area of Hwt to be replaced (see note) 20.39 Yds.  
Structure Excavation - Unclassified 45 Cu Yds.  
36" PC Pipe - Removed for reuse 98 Lin Ft  
36" PC Pipe - Relaid for culverts 98 Lin Ft  
36" Pipe for culverts 98 Lin Ft  
Class "C" Concrete for sealing 0.89 Cu Yds.  
Reinforcing Steel 18.25 Yds.  
Rem. & disposal of portions of ex. Masonry 18.25 Yds.  
Pipe-rap - Type A - Grouted 20.39 Yds.  
Area of Hwt to be replaced 20.39 Yds.

## STRUCTURE 21-C

Remove existing 36" pipe culv. & existing headwall. Construct Std. Culvert headwall, and 36" Pipe culvert using existing and new culvert pipe. Seal opening in Structure wingwall. Make all connections.