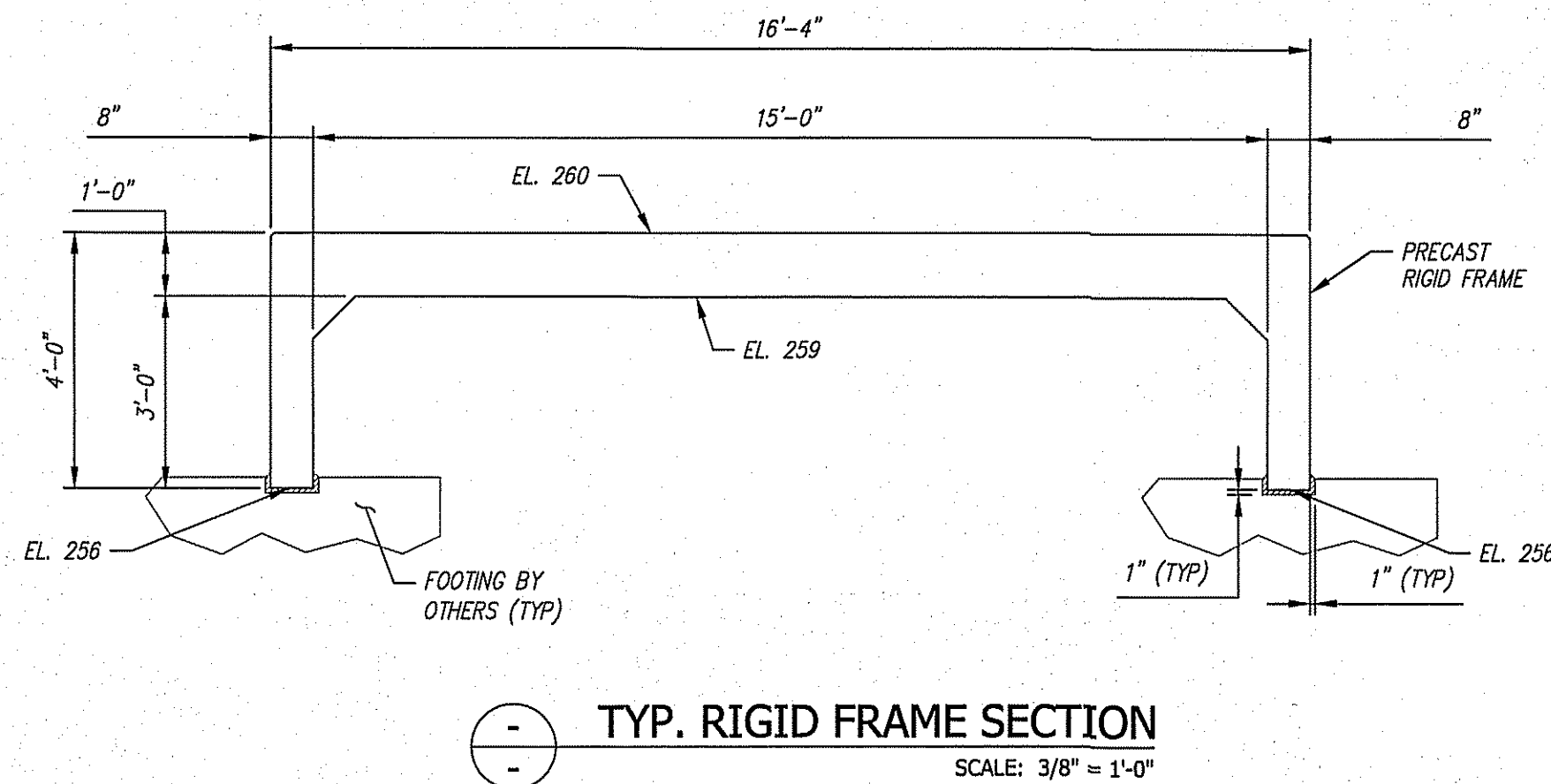
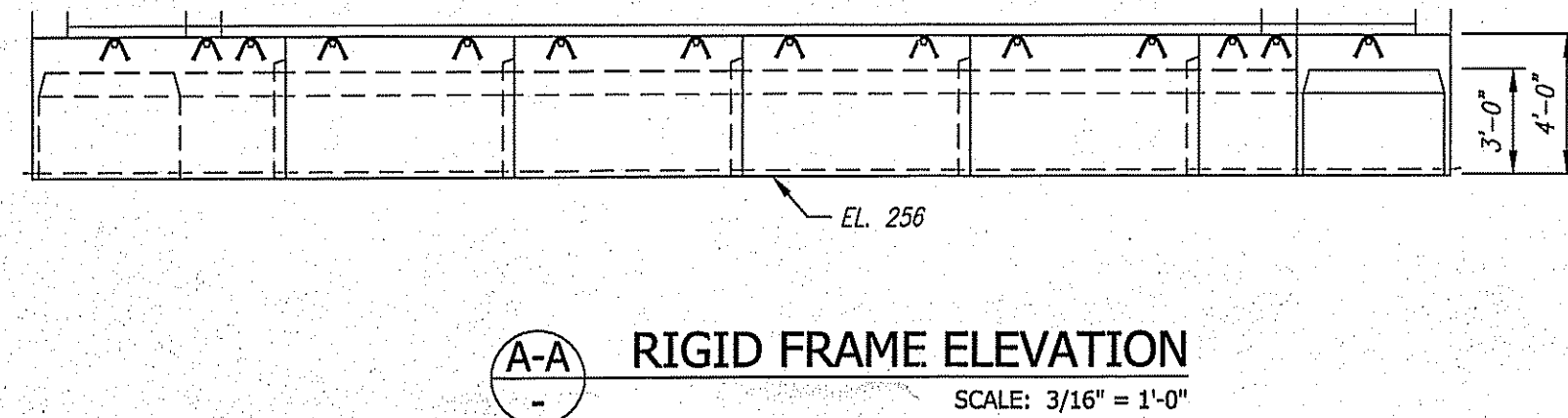
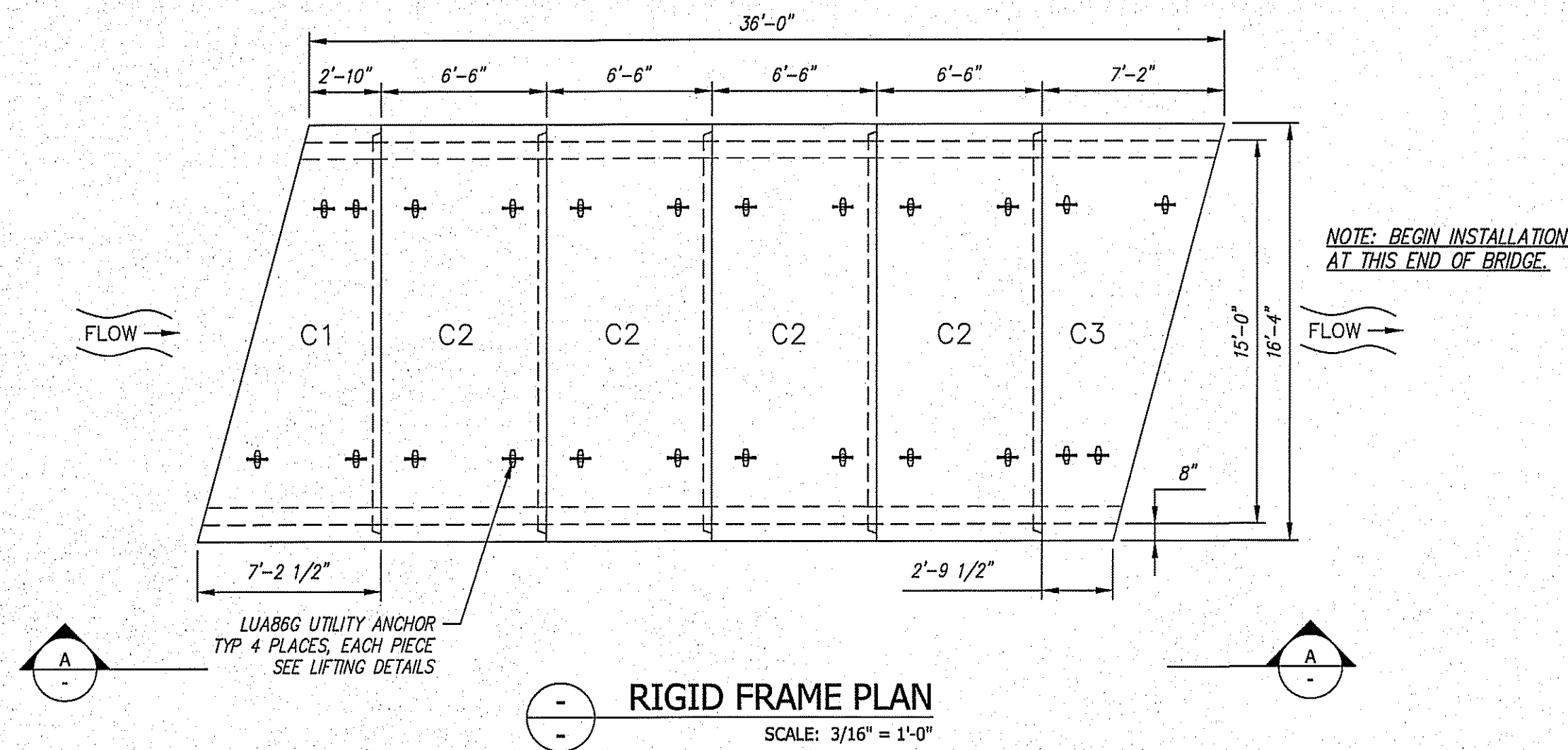
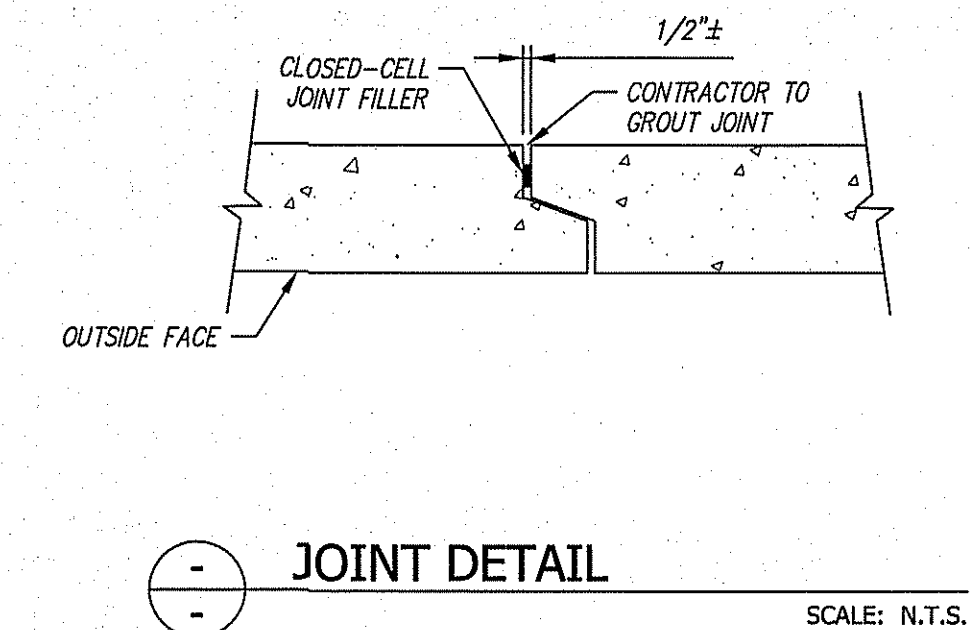
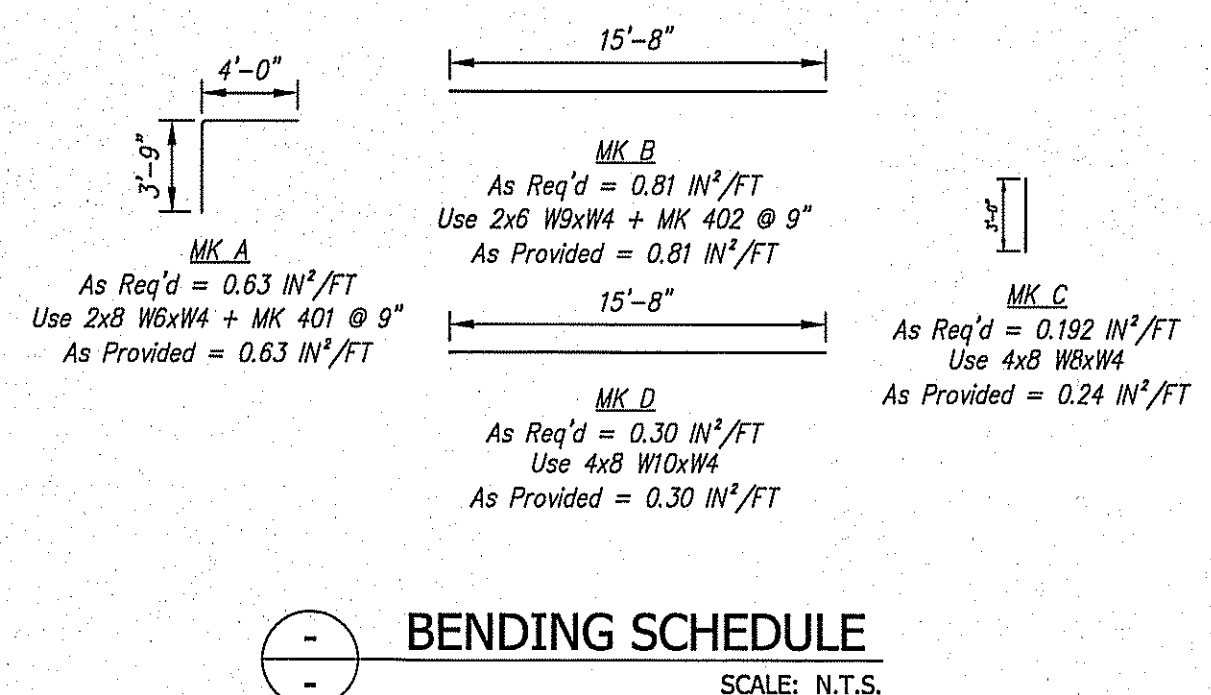
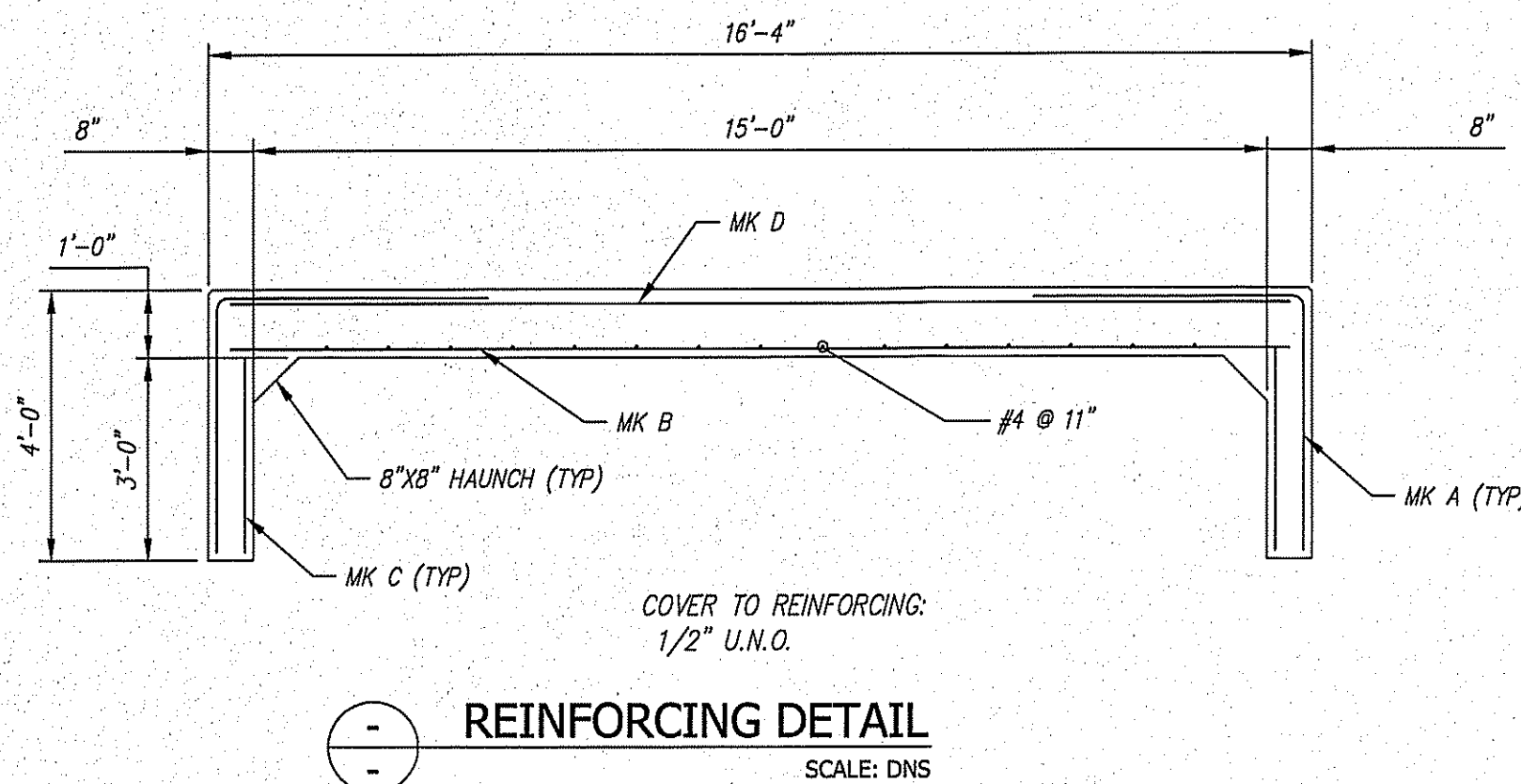
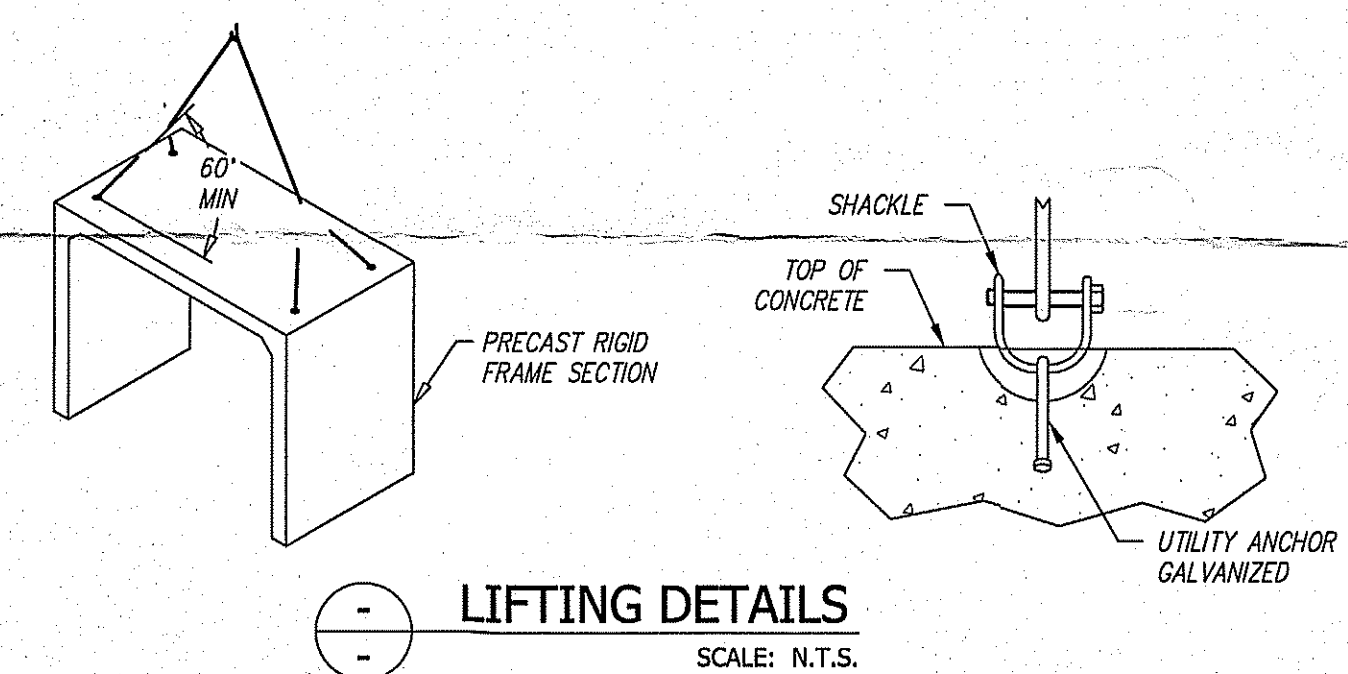




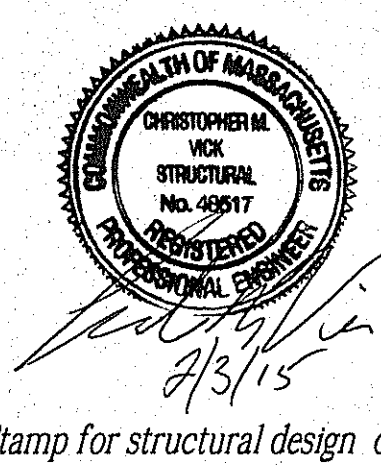
- GENERAL NOTES:
- REFERENCE STANDARDS:  
AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES"  
ASTM C1504
  - DESIGN PARAMETERS:  
LIVE LOAD: HS20  
EARTH COVER: 1.0' MAX  
CONCRETE: DESIGN STRENGTH  $f'_c = 5000$  PSI  
UNIT WEIGHT = 150 PCF  
REINFORCING: ASTM A615 (REBAR) GR 60,  
ASTM A185 (WWF) GR65  
SOIL: UNIT WEIGHT = 120 PCF  
MINIMUM LATERAL PRESSURE COEFFICIENT .25  
MAXIMUM LATERAL PRESSURE COEFFICIENT .50  
COVER TO REINFORCING: 1.5" U.N.O.
  - DIMENSIONS INCLUDE A JOINT GAP. ACTUAL CULVERT PIECE LENGTH IS 1/2" SHORTER (I.E. C2 = 6'-5 1/2").

| PIECE SCHEDULE (MX-FA5000SC30) |     |        |      |        |      |
|--------------------------------|-----|--------|------|--------|------|
| MARK                           | QTY | LENGTH | YDS  | WEIGHT |      |
| C1                             | 1   | 5.00   | 3.76 | 7.61   | TONS |
| C2                             | 4   | 6.50   | 5.00 | 10.13  | TONS |
| C3                             | 1   | 5.00   | 3.85 | 7.79   | TONS |
| TOTAL                          | 6   | 36.00  |      |        |      |



Contractor is to verify that all information shown on drawings has been thoroughly checked, complies with the contract documents and is adequate to meet the field conditions. Some dimensions and details may differ slightly from contract drawings to accommodate the manufacturing or design process. Approval of this drawing indicates that any deviation from the contract documents has been reviewed and found to be acceptable. Production will not commence until receipt of signed, approved shop drawings.

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| Rev. | Date | DESCRIPTION | By |
|------|------|-------------|----|
| 10   |      |             |    |
| 9    |      |             |    |
| 8    |      |             |    |
| 7    |      |             |    |
| 6    |      |             |    |
| 5    |      |             |    |
| 4    |      |             |    |
| 3    |      |             |    |
| 2    |      |             |    |
| 1    |      |             |    |

This drawing is based upon information provided from the following documents and/or sources:

Engineer: R. WILSON & ASSOCIATES  
Project No:  
Drawings: SITE GRADING PLAN FOR PINE HILL VILLAGE

Specifications: ----  
Other Sources:

**CSI**  
Concrete Systems Inc.  
9 Commercial St., Hudson, NH 03051  
Phone 603-889-4163  
Fax 603-889-2417

STATE AGENCY

Drawn By: AD Date: 01/30/2015  
Reviewed By: CMV Date: 02/03/2015  
Approved By:

|                                                     |             |                                       |         |          |
|-----------------------------------------------------|-------------|---------------------------------------|---------|----------|
| MARKEY AND RUBIN<br>PINE HILL VILLAGE<br>HARVARD MA |             | 15'x3' RIGID FRAME LAYOUT AND DETAILS |         | REV<br>0 |
| D                                                   | Drawing No. | C22291-L01                            |         |          |
| Quantity:                                           | Project No: |                                       | SHEET 1 | OF 1     |