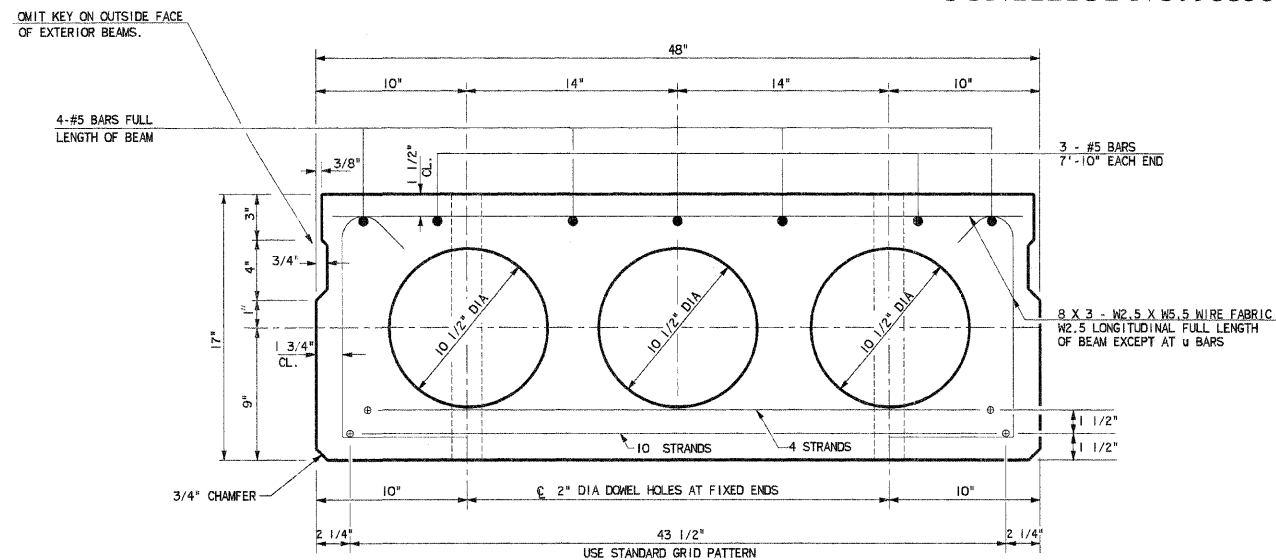
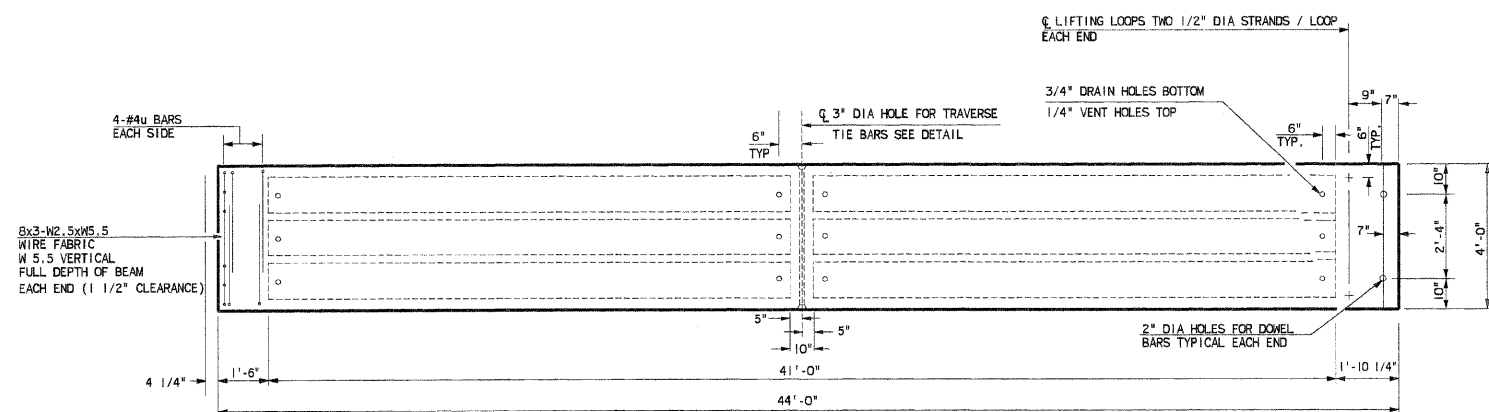


CROSS SECTION

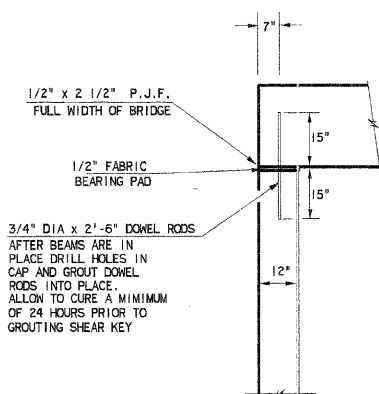


TYPICAL SECTION

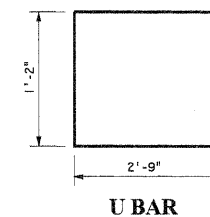
18-NO 7 WIRE 1/2" DIA STRANDS STRESSED TO 28,900 POUNDS
 8 STRANDS 1 3/4" UP
 10 STRANDS 3 1/4" UP



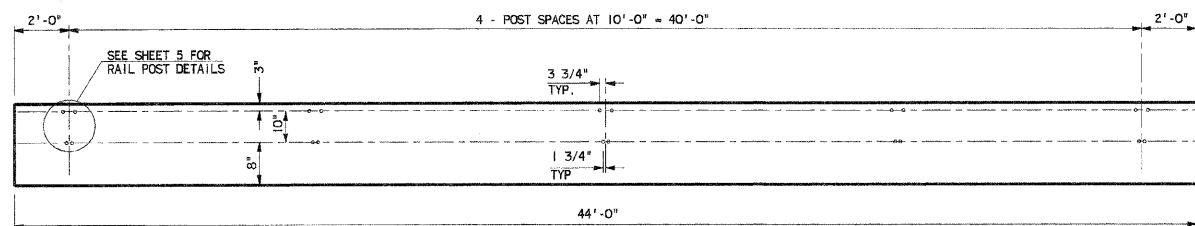
TYPICAL PLAN OF BEAMS



SECTION AT ABUTMENT

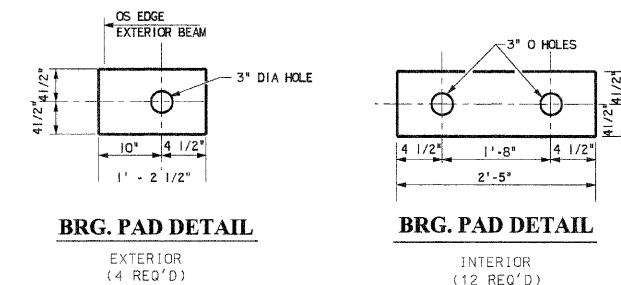


UBAR



ELEVATION OF OUTSIDE BEAMS

SHOWING RAIL POST SPACING



BRG. PAD DETAIL

EXTERIOR
(4 REQ'D)

BRG. PAD DETAIL

INTERIOR
(12 REQ'D)

PRESTRESSING STEEL SHALL BE NON-GALVANIZED HIGH STRENGTH, STRESS-RELIEVED 7-WIRE STRAND, GRADE 270.

THE NOMINAL DIAMETER SHALL BE 1/2" AND THE NOMINAL CROSS-SECTIONAL AREA SHALL BE 0.153 SQ. IN.

LIFTING LOOPS SHALL BE 1/2" DIAMETER, 6x25 CLASS WIRE ROPE WITH FIBER CORE AND SHALL HAVE A MINIMUM ULTIMATE TENSILE STRENGTH OF 21,000 LBS. OR TWO-1/2" DIA. - 270 KSI STRANDS, AS SHOWN.

KEYWAY SURFACES SHALL BE CLEANED TO REMOVE FORM OIL OR OTHER BOND BREAKING MATERIAL PRIOR TO SHIPMENT OF THE BEAMS, CLEANING SHALL BE DONE BY SANDBLASTING THE KEYWAY AREAS BETWEEN TOP OF THE BEAM AND THE BOTTOM EDGE OF THE KEY.

REINFORCEMENT BARS SHALL CONFORM TO AASHTO: M-31, M-42 OR M-53, GRADE 60.

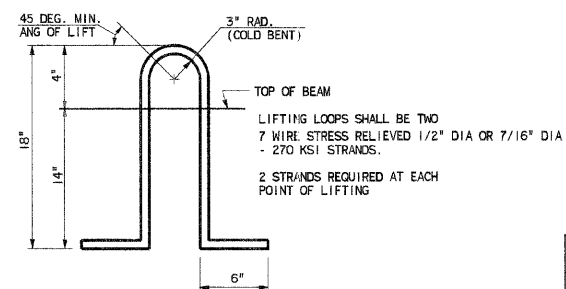
THE BEARING SEAT SURFACES SHALL BE ADJUSTED BY SHIMMING TO ASSURE FIRM AND EVEN BEARING. TWO 1/8" FABRIC ADJUSTING SHIMS OF THE DIMENSIONS OF THE EXTERIOR BEARING PAD SHALL BE PROVIDED FOR EACH BEARING.

AN EQUAL SUBSTITUTION OF THE LOW-RELAXATION STRANDS FOR THE STRESS-RELIEVED STRANDS WILL BE PERMITTED.

A CALCIUM NITRITE CORROSION INHIBITOR, AS COVERED IN THE SPECIAL PROVISIONS SHALL BE USED IN THE CONCRETE FOR PRECAST PRESTRESSED CONCRETE DECK BEAMS.

THE INITIAL PRESTRESSING FORCE APPLIED TO EACH STRAND SHALL BE THE SAME AS FOR THE STRESS RELIEVED STRANDS (28,900 LBS.)

RAIL POST ANCHOR DEVICES SHALL BE CAST INTO OUTSIDE BEAM AS ELSEWHERE SPECIFIED REQUIRED RELEASE STRENGTH, f'ci, SHALL BE 4,700 PSI



LIFTING LOOP DETAIL

BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|------------------------------|---------|----------|
| PRECAST PRESTRESSED CONCRETE | | |
| DECK BEAMS (17" DEPTH) | SQ. FT. | 1232 |

SUPERSTRUCTURE DETAILS

SEC. 06-03123-00-BR
 EAST OAKLAND TOWNSHIP
 COLES COUNTY

McCLINTOCK
 CIVIL ENGINEERING SERVICE
 404 SHAW AVENUE, PARIS, ILL. 61944
 PHONE (217) 466-6110

DRN SDE DATE: 4/10/07
 Rev 12/12/07 SCALE: NTS
 APPR.

SHEET 5 OF 13
 JOB NO. 3137-729-06