	暈	LENGTH	AT	•	<b>OF</b>	SSW	RAILWAY
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DESIGNED

BEAM

LENGTH

BEAM

NO.

54'-4/2 1-5 54.04

SPAN

NUMBER

SPAN

LENGTH

BEAMS

NO.

SIZE STRGTH

BEAM

TYPE

(DEPRESSED STRANDS)

ENO

II 84 1/2° 270 K 20.75 10.75 10 1-34 4000 5000

PRESTRESSING STRANDS

•

OPTIONAL DESIGN

ON LOAD ON LOAD REQUIRED COMP. TENERE STRESS ULTMATE (TOP %) (BOTT, %) MOMENT

1311 1070 3091

CONCRETE

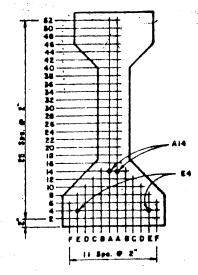
MELEASE SE BAY STREMETH COMP.

STRENSTH f'cl (pal) f'c (pal)

DEPRESSED

TO

NO:



AASHTO TYPE IV BM.

GENERAL NOTES:

Designed in essertance with current A.R.E.A. Specifications.

All concrete shell be Class H.

When shown on this sheet, the fabricator has the option of furnishing either the designed depressed strend beam or an approved optional beam design. Law relexation strends may be used.

Prestressed bases for the designed beams have been calculated according to the A.R.E.A. Specifications for a relative. humidity of 65%, Optional designs shell likewise conform.

Certain beams with depressed strands are subject to cracking in the end of the beam. When such cracks occur, all subsequent beams of the same type-and strand pattern shall have strands wrapped in the following manner:

1. Alternate rows of depressed strands shall be wrapped for 2 feet from each and of the beam.

2. One helf of the straight strands, as nearly as possible, shall

be wrapped for 4 feet from each end of the beam.

3. The wrapping pattern shall be symmetrical about the vertical axis of the beam for both depressed and straight strands.

4. Strands shall be wrapped so that the centers of gravity of the depressed strands and the straight strands will remain within 1 such of their original location.

5. Strands shall be tightly wrapped with a waterproof adhesive taps or pleatic tubing may be used provided both ends and the

tape or plastic tubing may be used provided both ends and it seem of the tube are sealed with a waterproof tape.

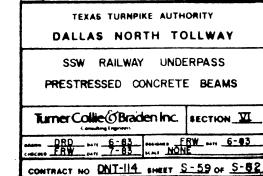
6. Revised shap drawings will not be required, but wrapping patterns, and the beams affected, shall appear on the as-built drawings.

For depressed strand designed beams, strands shall be leasted as low as possible on the 2" grid system shown hereon unless a non-standard strand pattern is indicated. Fill Row 2, then Row 4", then Row 6", etc., beginning each row in the "A" position and working outward until the required number of strands is reached. All strands in the "A" position shall be depressed, maintening the 2" spacing so that the upper two strands are in the position shown in the table of the beam ands

initial pretencion for 1/2" 270 K strands = 28.9 K for regular stress relieved strend or 31.0 K for low relaxation strends.

Herizontel distenses are shown for SPAN LENGTH and BEAM LENGTH. They must be corrected for grade or cross slope, where appropriate.

RE VISION



DATE DATE