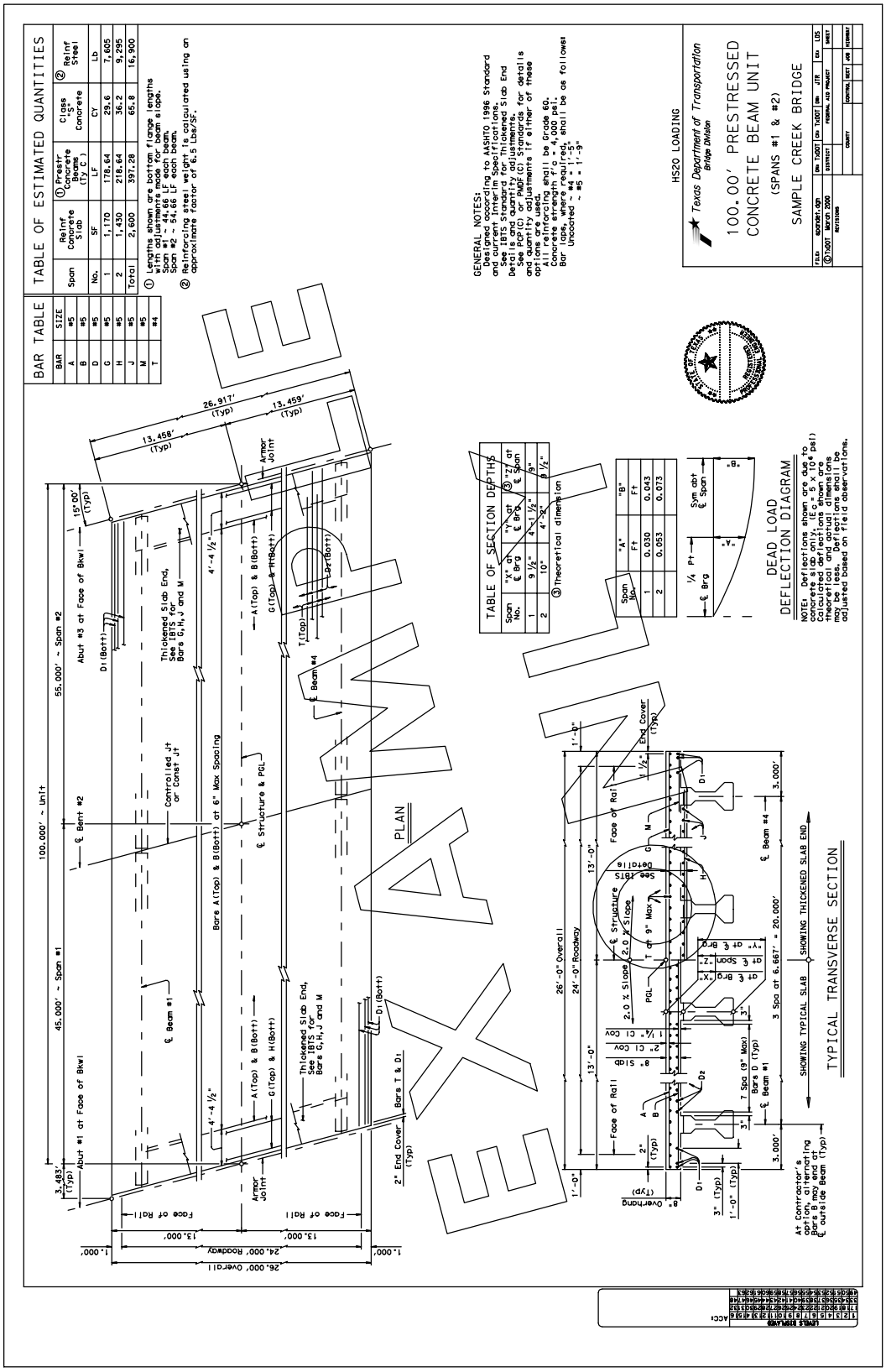
TABLE OF ESTIMATED QUANTITIES
Span | Reinf Concrete Slab | ① Prestr Concrete Beams (Ty C) | Class "S" Concrete | ② Reinf Steel
No. | SF | LF | CY | Lb
1 | 1,170 | 178.64 | 29.6 | 7,605
2 | 1,430 | 218.64 | 36.2 | 9,295
Total | 2,600 | 397.28 | 65.8 | 16,900
① Lengths shown are bottom flange lengths with adjustments made for beam slope. Span #1 ~ 54.66 LF each beam. Span #2 ~ 54.66 LF each beam.
② Reinforcing steel weight is calculated using an approximate factor of 6.5 Lbs/SF.
BAR TABLE
BAR | SIZE
A | #5
B | #5
D | #5
G | #5
H | #5
J | #5
M | #5
T | #4
GENERAL NOTES:
Designed according to AASHTO 1996 Standard and current Interim Specifications.
See TBIS Standard for Thickened Slab End Details and quantity adjustments.
See PCP(C) or PMDF(C) Standards for details and quantity adjustments if either of these options are used.
All reinforcing shall be Grade 60.
Concrete strength shall be 4,000 psi.
Bar laps where required shall be as follows:
Uncoated ~ #4 = 1'-5"
#5 = 1'-9"
HS20 LOADING
Texas Department of Transportation
Bridge Division
100.00' PRESTRESSED CONCRETE BEAM UNIT
(SPANS #1 & #2)
SAMPLE CREEK BRIDGE
TABLE OF SECTION DEPTHS
Span No. | "X" at ℄ Brg | "Y" at ℄ Brg | ③ "Z" at ℄ Span
1 | 9 1/2" | 4'-1 1/2" | 9"
2 | 10" | 4'-2" | 8 1/2"
③ Theoretical dimension
Span No. | "A" Ft | "B" Ft
1 | 0.030 | 0.043
2 | 0.053 | 0.073
DEAD LOAD DEFLECTION DIAGRAM
NOTE: Deflections shown are due to concrete slab only. (E = 4.5 x 10^6 psi) Calculated deflections shown are theoretical and actual dimensions may be less. Deflections shall be adjusted based on field observations.
PLAN
TYPICAL TRANSVERSE SECTION
SHOWING TYPICAL SLAB
SHOWING THICKENED SLAB END
EXAMPLE

Fig. 5-1