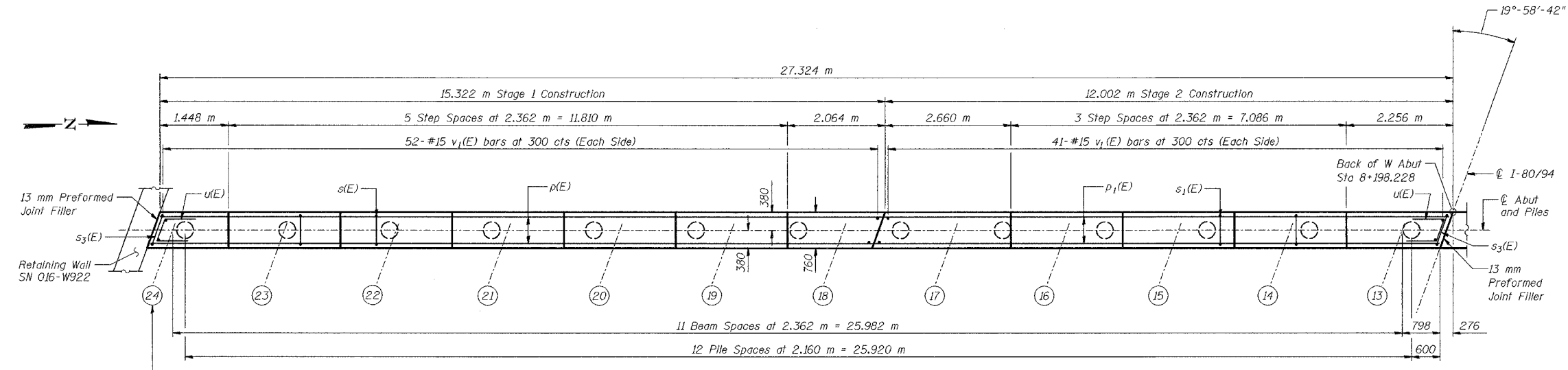


SECTION A-A

PILE DATA
 Type - 356 ϕ Metal Shell
 Capacity - 500 kN
 Est Length - 17.0 m
 *Est Length - 21.0 m
 No Reqd - 12
 Test Piles - 1



BEARING SEAT ELEVATIONS

Beam	ϕ W Abut
13	186.148
14	186.220
15	186.286
16	186.347
17	186.398
18	186.427
19	186.407
20	186.386
21	186.357
22	186.318
23	186.280
24	186.241

DESIGNED	BHS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

NOTES:
 See Sheet No S-31 for reinforcement details and Bill of Material.
 See Sheet No S-36 for concrete pile details.
 Pour steps monolithically with cap.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
 All dimensions are in millimeters (mm) except as noted.
 All edges shall have standard 20 mm chamfers except as noted.
 Cost of 13 mm Preformed Joint Filler included with Concrete, A, Substructure.
 * For the 3 southernmost piles, which are outside the Limits of Existing Structure.
 ** Cut bars to fit in field.

MINIMUM BAR LAPS

#15 bars = 640
 #20 bars = 790
 #30 bars = 1850

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.L. ROUTE 80/94 (BORMAN EXPRESSWAY)
 OVER HOBMAN AVENUE

WEST ABUTMENT - EASTBOUND
SECTION 2626.2-R-2
LAKE COUNTY, INDIANA
STATION 8+225.132
STRUCTURE NO. I-80-1-8459 (EB & WB)
 DATE 09/05 (016-1001 & 016-1002)

AMERICAN
 CONSULTING ENGINEERS