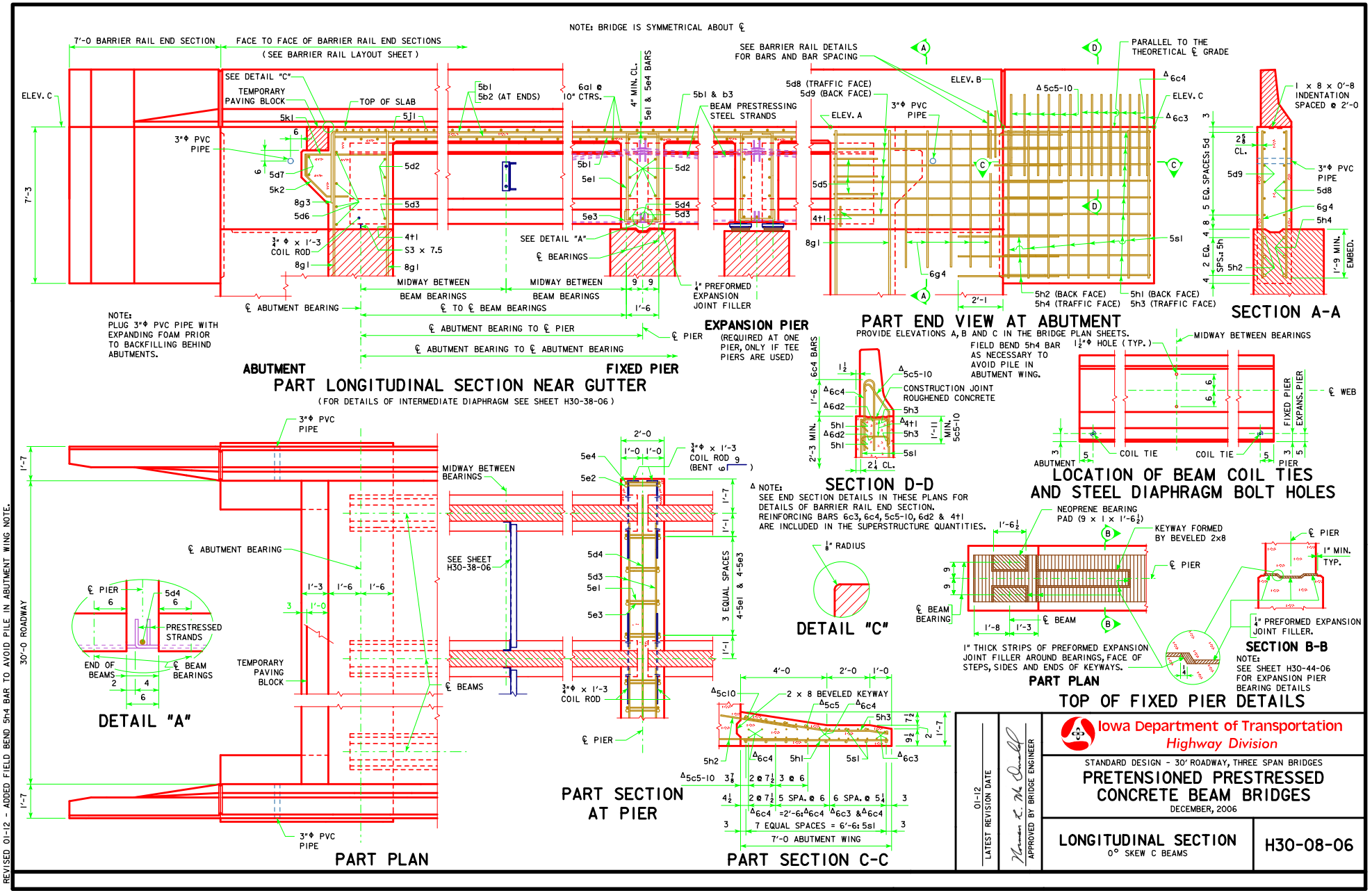
NOTE: BRIDGE IS SYMMETRICAL ABOUT ℄
7'-0 BARRIER RAIL END SECTION
FACE TO FACE OF BARRIER RAIL END SECTIONS
(SEE BARRIER RAIL LAYOUT SHEET)
ELEV. C
7'-3
SEE DETAIL "C"
TEMPORARY PAVING BLOCK
TOP OF SLAB
3"Φ PVC PIPE
5k1
5j1
5b1
5b2 (AT ENDS)
6a1 @ 10" CTRS.
4" MIN. CL.
5e1 & 5e4 BARS
5b1 & b3
BEAM PRESTRESSING STEEL STRANDS
5d7
5k2
8g3
5d6
5d2
5d3
4t1
S3 x 7.5
8g1
¾" Φ x 1'-3 COIL ROD
SEE DETAIL "A"
℄ BEARINGS
1/4" PREFORMED EXPANSION JOINT FILLER
MIDWAY BETWEEN BEAM BEARINGS
℄ TO ℄ BEAM BEARINGS
℄ ABUTMENT BEARING
℄ ABUTMENT BEARING TO ℄ PIER
℄ ABUTMENT BEARING TO ℄ ABUTMENT BEARING
℄ PIER
NOTE: PLUG 3"Φ PVC PIPE WITH EXPANDING FOAM PRIOR TO BACKFILLING BEHIND ABUTMENTS.
ABUTMENT
FIXED PIER
PART LONGITUDINAL SECTION NEAR GUTTER
(FOR DETAILS OF INTERMEDIATE DIAPHRAGM SEE SHEET H30-38-06)
EXPANSION PIER
(REQUIRED AT ONE PIER, ONLY IF TEE PIERS ARE USED)
SEE BARRIER RAIL DETAILS FOR BARS AND BAR SPACING
5d8 (TRAFFIC FACE)
5d9 (BACK FACE)
ELEV. B
ELEV. A
3"Φ PVC PIPE
5c5-10
6c4
ELEV. C
6c3
PARALLEL TO THE THEORETICAL ℄ GRADE
5d5
4t1
8g1
6g4
5s1
2'-1
5h2 (BACK FACE)
5h4 (TRAFFIC FACE)
5h1 (BACK FACE)
5h3 (TRAFFIC FACE)
PART END VIEW AT ABUTMENT
PROVIDE ELEVATIONS A, B AND C IN THE BRIDGE PLAN SHEETS.
FIELD BEND 5h4 BAR AS NECESSARY TO AVOID PILE IN ABUTMENT WING.
1 x 8 x 0'-8 INDENTATION SPACED @ 2'-0
2¾ CL.
5d9
3"Φ PVC PIPE
5d8
6g4
5h4
5 EQ. SPACES: 5d
2 EQ. SPS.: 5h
5h2
1'-9 MIN. EMBED.
SECTION A-A
6c4 BARS
1½
5c5-10
CONSTRUCTION JOINT ROUGHENED CONCRETE
6c4
6d2
5h3
5h1
4t1
5s1
2'-3 MIN.
1'-6
1'-11 MIN. 5c5-10
2¼ CL.
SECTION D-D
MIDWAY BETWEEN BEARINGS
1½Φ HOLE (TYP.)
℄ WEB
FIXED PIER
EXPANS. PIER
ABUTMENT
COIL TIE
COIL TIE
PIER
LOCATION OF BEAM COIL TIES AND STEEL DIAPHRAGM BOLT HOLES
Δ NOTE: SEE END SECTION DETAILS IN THESE PLANS FOR DETAILS OF BARRIER RAIL END SECTION. REINFORCING BARS 6c3, 6c4, 5c5-10, 6d2 & 4t1 ARE INCLUDED IN THE SUPERSTRUCTURE QUANTITIES.
3"Φ PVC PIPE
1'-7
30'-0 ROADWAY
℄ ABUTMENT BEARING
1'-3
1'-6
1'-6
3
1'-0
℄ PIER
5d4
6
PRESTRESSED STRANDS
END OF BEAMS
℄ BEAM BEARINGS
2
4
6
DETAIL "A"
TEMPORARY PAVING BLOCK
MIDWAY BETWEEN BEARINGS
SEE SHEET H30-38-06
℄ BEAMS
3"Φ PVC PIPE
PART PLAN
2'-0
1'-0
1'-0
¾"Φ x 1'-3 COIL ROD 9 (BENT 6)
5e4
5e2
5d4
5d3
5e1
5e3
3 EQUAL SPACES 4-5e1 & 4-5e3
1'-1
1'-7
1'-1
℄ PIER
PART SECTION AT PIER
⅛" RADIUS
DETAIL "C"
4'-0
2'-0
1'-0
Δ5c10
2 x 8 BEVELED KEYWAY
Δ5c5
Δ6c4
5h3
7½
9½
2
1'-7
5h2
Δ6c4
5h1
5s1
Δ6c3
Δ5c5-10
3½
2 @ 7½
3 @ 6
4½
2 @ 7½
5 SPA. @ 6
6 SPA. @ 5¼
3
Δ6c4 =2'-6; Δ6c4 Δ6c3 & Δ6c4
3
7 EQUAL SPACES = 6'-6; 5s1
3
7'-0 ABUTMENT WING
PART SECTION C-C
NEOPRENE BEARING PAD (9 x 1 x 1'-6½)
KEYWAY FORMED BY BEVELED 2x8
1'-6½
B
℄ PIER
9
9
℄ BEAM BEARING
1'-8
1'-3
℄ BEAM
1" THICK STRIPS OF PREFORMED EXPANSION JOINT FILLER AROUND BEARINGS, FACE OF STEPS, SIDES AND ENDS OF KEYWAYS.
PART PLAN
℄ PIER
1" MIN. TYP.
¼" PREFORMED EXPANSION JOINT FILLER.
SECTION B-B
NOTE: SEE SHEET H30-44-06 FOR EXPANSION PIER BEARING DETAILS
TOP OF FIXED PIER DETAILS
REVISED 01-12 - ADDED FIELD BEND 5h4 BAR TO AVOID PILE IN ABUTMENT WING NOTE.
01-12
LATEST REVISION DATE
APPROVED BY BRIDGE ENGINEER
Iowa Department of Transportation
Highway Division
STANDARD DESIGN - 30' ROADWAY, THREE SPAN BRIDGES
PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES
DECEMBER, 2006
LONGITUDINAL SECTION
0° SKEW C BEAMS
H30-08-06