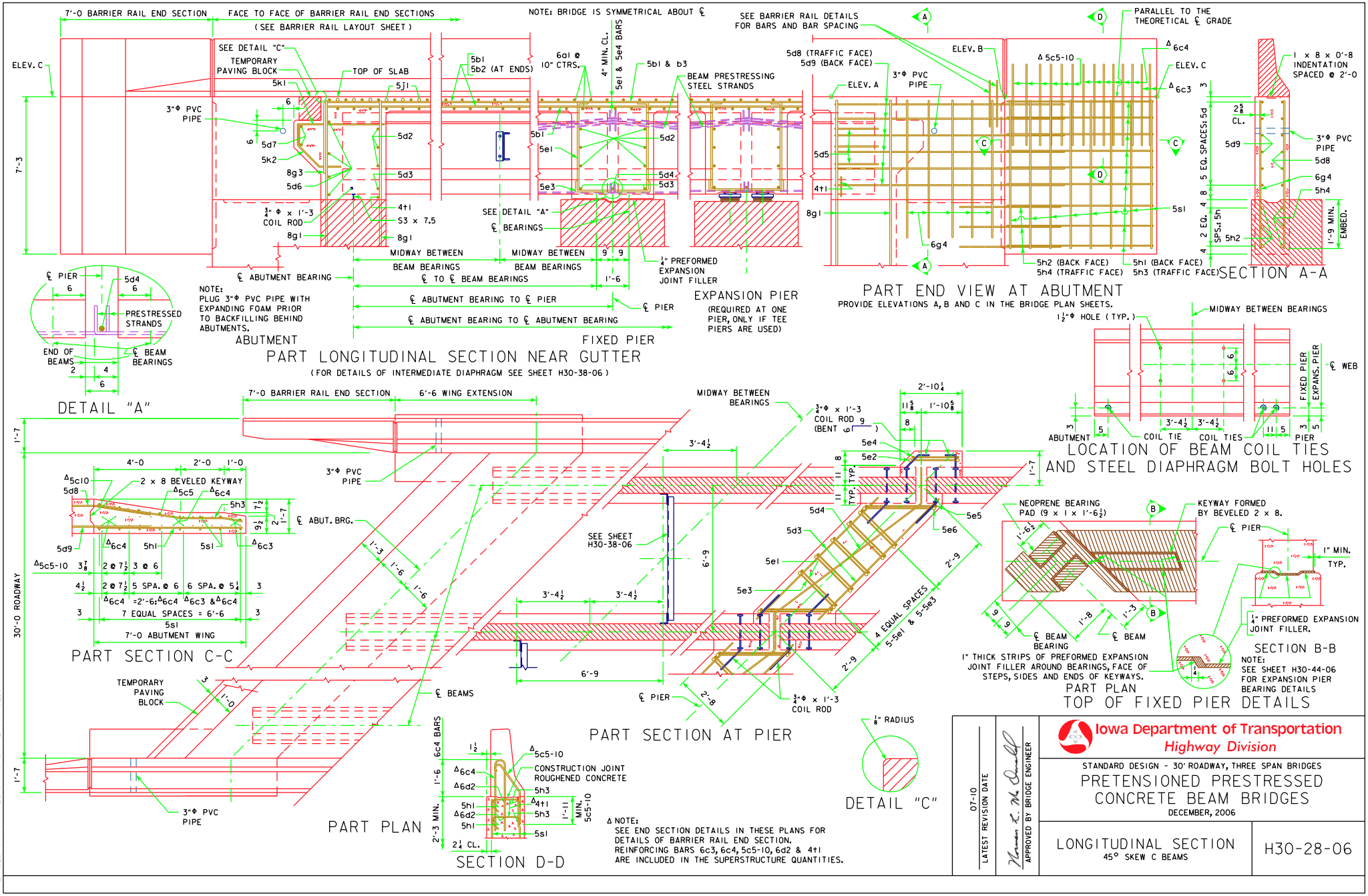
7'-0 BARRIER RAIL END SECTION
FACE TO FACE OF BARRIER RAIL END SECTIONS
(SEE BARRIER RAIL LAYOUT SHEET)
NOTE: BRIDGE IS SYMMETRICAL ABOUT ℄
SEE BARRIER RAIL DETAILS FOR BARS AND BAR SPACING
PARALLEL TO THE THEORETICAL ℄ GRADE
ELEV. C
SEE DETAIL "C"
TEMPORARY PAVING BLOCK
TOP OF SLAB
3"Φ PVC PIPE
5k1
5j1
5b1
5b2 (AT ENDS)
6a1 @ 10" CTRS.
4" MIN. CL.
5e1 & 5e4 BARS
5b1 & b3
BEAM PRESTRESSING STEEL STRANDS
5d8 (TRAFFIC FACE)
5d9 (BACK FACE)
ELEV. B
ELEV. A
Δ 5c5-10
Δ 6c4
Δ 6c3
5d7
5k2
8g3
5d6
5d2
5d3
4t1
S3 x 7.5
8g1
¾" Φ x 1'-3 COIL ROD
SEE DETAIL "A"
℄ BEARINGS
5e1
5e3
5d4
5d5
5s1
6g4
5h2
5h1 (BACK FACE)
5h3 (TRAFFIC FACE)
5h4 (TRAFFIC FACE)
¼" PREFORMED EXPANSION JOINT FILLER
MIDWAY BETWEEN BEAM BEARINGS
℄ TO ℄ BEAM BEARINGS
℄ ABUTMENT BEARING
℄ ABUTMENT BEARING TO ℄ PIER
℄ ABUTMENT BEARING TO ℄ ABUTMENT BEARING
℄ PIER
ABUTMENT
FIXED PIER
PART LONGITUDINAL SECTION NEAR GUTTER
(FOR DETAILS OF INTERMEDIATE DIAPHRAGM SEE SHEET H30-38-06)
NOTE: PLUG 3"Φ PVC PIPE WITH EXPANDING FOAM PRIOR TO BACKFILLING BEHIND ABUTMENTS.
EXPANSION PIER
(REQUIRED AT ONE PIER, ONLY IF TEE PIERS ARE USED)
PART END VIEW AT ABUTMENT
PROVIDE ELEVATIONS A, B AND C IN THE BRIDGE PLAN SHEETS.
1 x 8 x 0'-8 INDENTATION SPACED @ 2'-0
2⅝ CL.
5 EQ. SPACES: 5d
2 EQ. SPS.: 5h
1'-9 MIN. EMBED.
SECTION A-A
℄ PIER
PRESTRESSED STRANDS
END OF BEAMS
℄ BEAM BEARINGS
DETAIL "A"
7'-0 BARRIER RAIL END SECTION
6'-6 WING EXTENSION
MIDWAY BETWEEN BEARINGS
¾"Φ x 1'-3 COIL ROD 9 (BENT 6)
2'-10¼
11⅝
1'-10⅝
5e4
5e2
5e5
5e6
5d4
5d3
5e1
5e3
3'-4½
6'-9
2'-9
4 EQUAL SPACES 5-5e1 & 5-5e3
2'-8
6'-9
℄ PIER
¾"Φ x 1'-3 COIL ROD
℄ ABUT. BRG.
SEE SHEET H30-38-06
℄ BEAMS
30'-0 ROADWAY
1'-7
4'-0
2'-0
1'-0
2 x 8 BEVELED KEYWAY
Δ5c10
5d8
Δ5c5
Δ6c4
5h3
5d9
5h1
5s1
Δ6c3
Δ5c5-10
2 @ 7½
3 @ 6
2 @ 7½
5 SPA. @ 6
6 SPA. @ 5¼
Δ6c4 =2'-6: Δ6c4 Δ6c3 & Δ6c4
7 EQUAL SPACES = 6'-6
5s1
7'-0 ABUTMENT WING
PART SECTION C-C
TEMPORARY PAVING BLOCK
3"Φ PVC PIPE
PART PLAN
PART SECTION AT PIER
1½"Φ HOLE (TYP.)
MIDWAY BETWEEN BEARINGS
℄ WEB
FIXED PIER
EXPANS. PIER
ABUTMENT
COIL TIE
COIL TIES
PIER
3'-4½
LOCATION OF BEAM COIL TIES AND STEEL DIAPHRAGM BOLT HOLES
NEOPRENE BEARING PAD (9 x 1 x 1'-6½)
KEYWAY FORMED BY BEVELED 2 x 8.
℄ PIER
1" MIN. TYP.
℄ BEAM BEARING
℄ BEAM
1" THICK STRIPS OF PREFORMED EXPANSION JOINT FILLER AROUND BEARINGS, FACE OF STEPS, SIDES AND ENDS OF KEYWAYS.
PART PLAN
¼" PREFORMED EXPANSION JOINT FILLER.
SECTION B-B
NOTE: SEE SHEET H30-44-06 FOR EXPANSION PIER BEARING DETAILS
TOP OF FIXED PIER DETAILS
6c4 BARS
Δ5c5-10
CONSTRUCTION JOINT ROUGHENED CONCRETE
Δ6c4
Δ6d2
5h3
Δ4t1
5h1
5s1
2¼ CL.
2'-3 MIN.
1'-11 MIN. 5c5-10
SECTION D-D
⅛" RADIUS
DETAIL "C"
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.
07-10
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
45° SKEW C BEAMS
H30-28-06
REVISED 07-10 - ABUT. WING SHAPE CHANGED.