

THE STATE OF DELAWARE **DEPARTMENT OF TRANSPORTATION**



STANDARD CONSTRUCTION DETAILS

DESIGN VALUES ARE PRESENTED IN THIS DOCUMENT IN BOTH METRIC AND U.S. CUSTOMARY UNITS AND WERE DEVELOPED INDEPENDENTLY WITHIN EACH SYSTEM. THE RELATIONSHIP BETWEEN THE METRIC AND U.S. CUSTOMARY VALUES IS NEITHER AN EXACT (SOFT) CONVERSION NOR A COMPLETELY RATIONALIZED (HARD) CONVERSION. THE METRIC VALUES ARE THOSE THAT WOULD HAVE BEEN USED HAD THIS DOCUMENT BEEN PRESENTED EXCLUSIVELY IN METRIC UNITS; THE U.S. CUSTOMARY VALUES ARE THOSE THAT WOULD HAVE BEEN USED IF THIS DOCUMENT HAD BEEN PRESENTED EXCLUSIVELY IN U.S. CUSTOMARY UNITS. THEREFORE, THE USER IS ADVISED TO WORK COMPLETELY IN ONE SYSTEM AND NOT ATTEMPT TO CONVERT DIRECTLY BETWEEN THE TWO.

11/26/2007

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DELAWARE DEPARTMENT OF TRANSPORTATION

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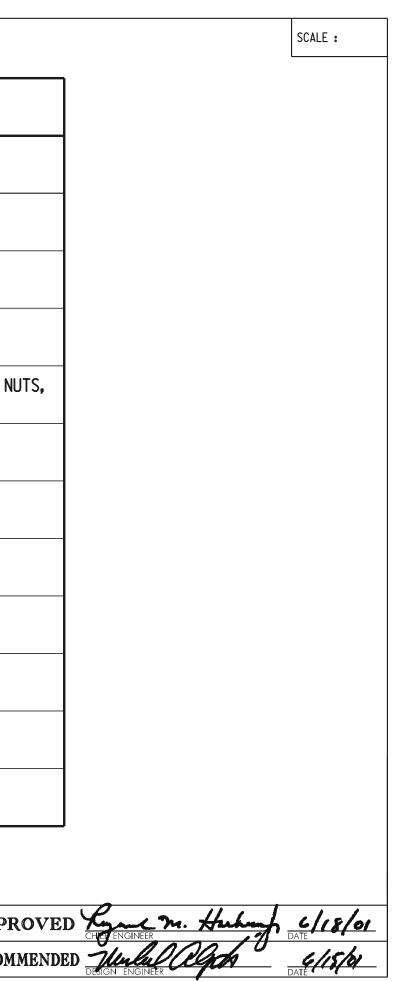
	BARRIER LEGEND
ITEM NO.	DESCRIPTION
	W-BEAM
2	W6 X 9 (WI50 x 13.5) STEEL POST
3	WOOD OFFSET BLOCK
4	SPLICE - REQUIRES EIGHT(8) $\frac{5}{8}$ "(16) GUARDRAIL BOLTS (L=1 $\frac{1}{4}$ "(35)) WITH RECESS NI AND ONE(1) $\frac{5}{8}$ "(16) GUARDRAIL BOLT (L=10"(255)) WITH RECESS NUT.
5	W-BEAM TERMINAL CONNECTOR
6	$\frac{5}{8}$ " (16) GUARDRAIL BOLT (L=1/4" (35)) AND RECESS NUT
(7)	$\frac{5}{8}$ " (16) GUARDRAIL BOLT (L=10" (255)) AND RECESS NUT
8	$\frac{5}{8}$ " (16) GUARDRAIL BOLT (L=10" (255)), STEEL WASHER, AND RECESS NUT
9	$\frac{7}{8}$ " (22) HIGH STRENGTH STRUCTURAL HEX BOLT (L=VARIES) AND HEX NUT
	$\frac{5}{8}$ " (16) CARRIAGE BOLT (L=VARIES), STEEL WASHER, AND HEX NUT
	BEARING PLATE

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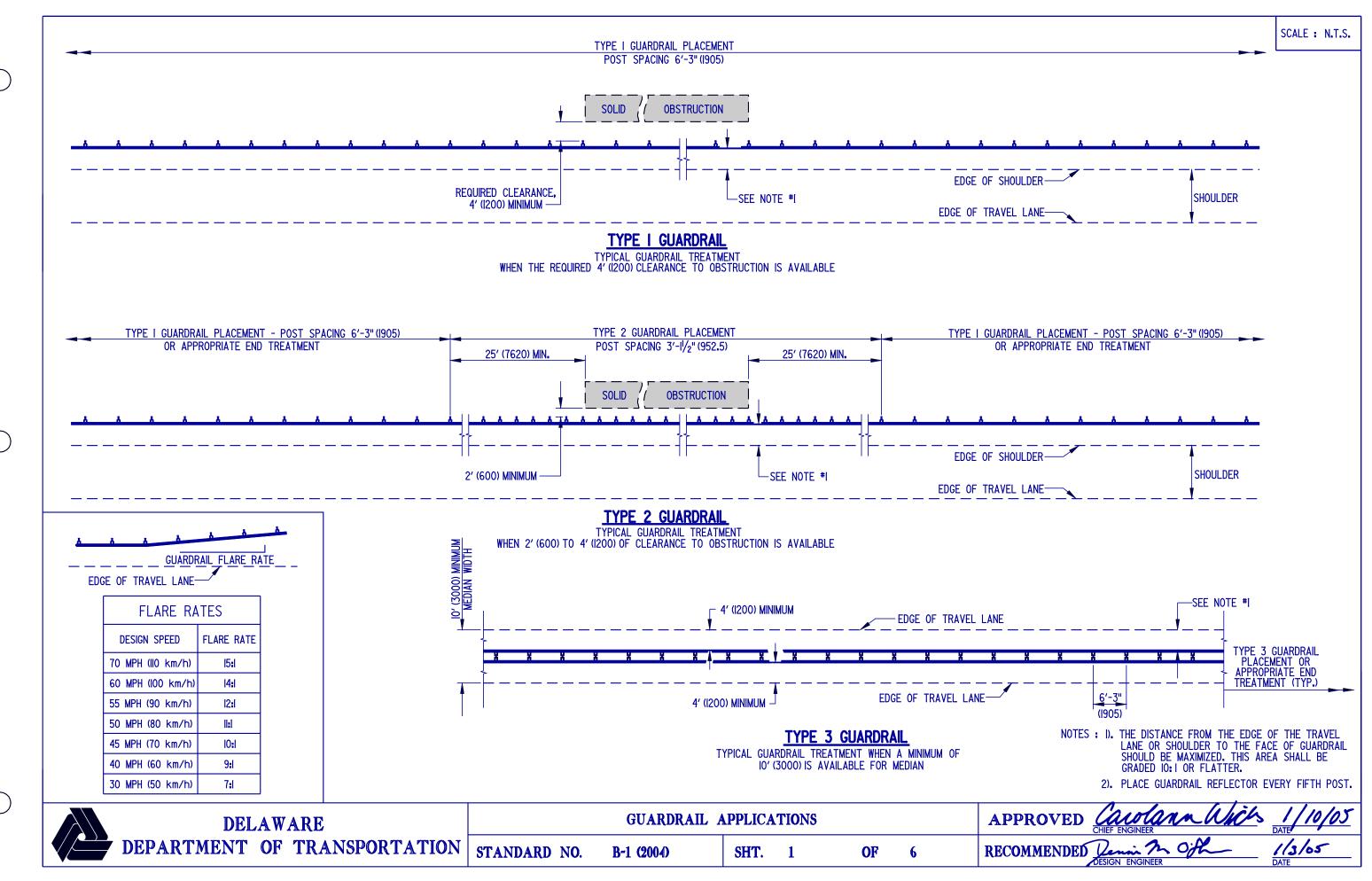
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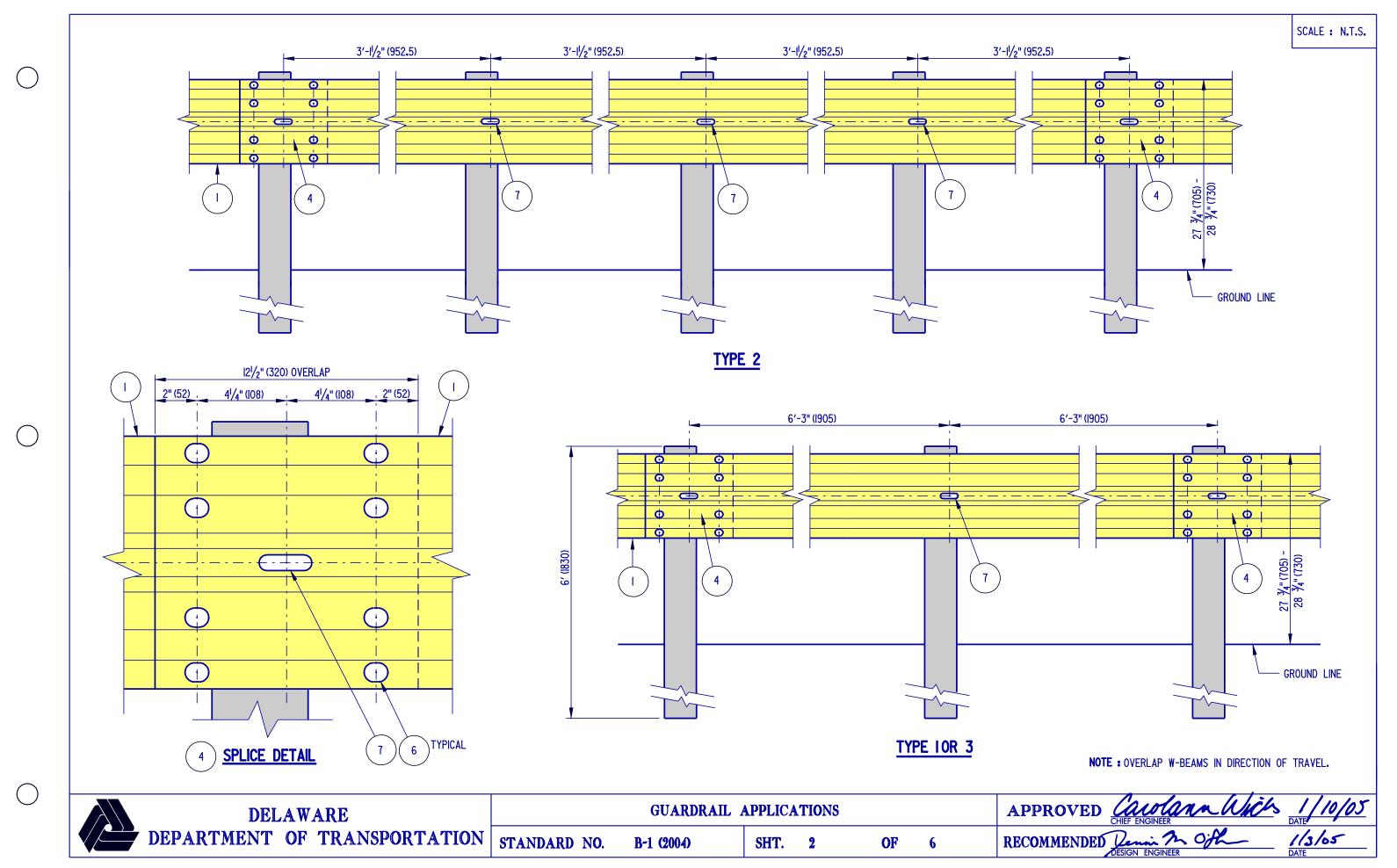
DELAWARE		BARRIER I	LEGEND				APPR
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-L (2001)	SHT.	1	OF	1	RECOM



02/21/2001



12/08/2004



08/24/2004

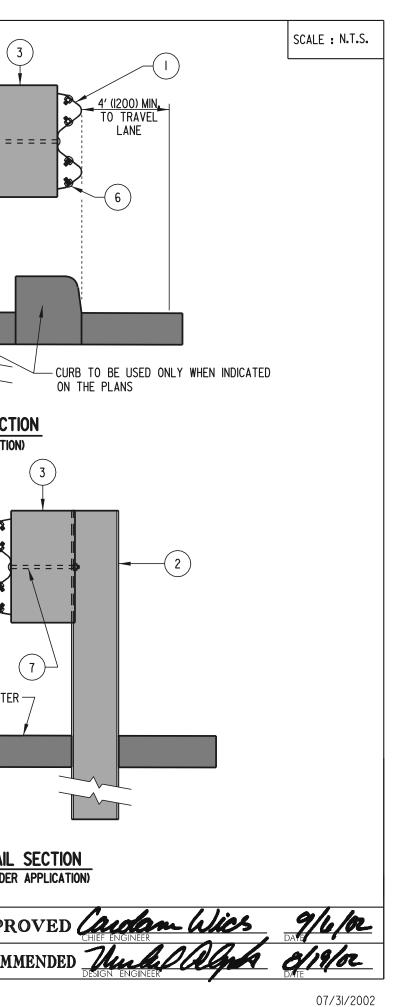
EDGE OF SHOULDER	INDICATED ON THE PLANS-	T T T T T T T T T T T T T T T T T T T	-	SEE PLAN	(ME	2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
TY	POST SPACING 6' 3" (1905) 6' 3" (1905)	CLEAR AREA BEHIND POST 4' (1200) MIN	DESIGN SPEED < 50 MPH (80 km/h)	D 6' (1800)	0FFSET DISTA D 21 ¾" (705) - 28 ¾" (730)	
2	2 3′ 11⁄2" (952.5)	2′ (600) MIN	<u>></u> 50 MPH (80 km/h)	10' (3000)	8" (200)	
						JRBAN SHOULDER APP
	DELAW	ARE		GUAKDKAII	APPLICATIONS	APPROV

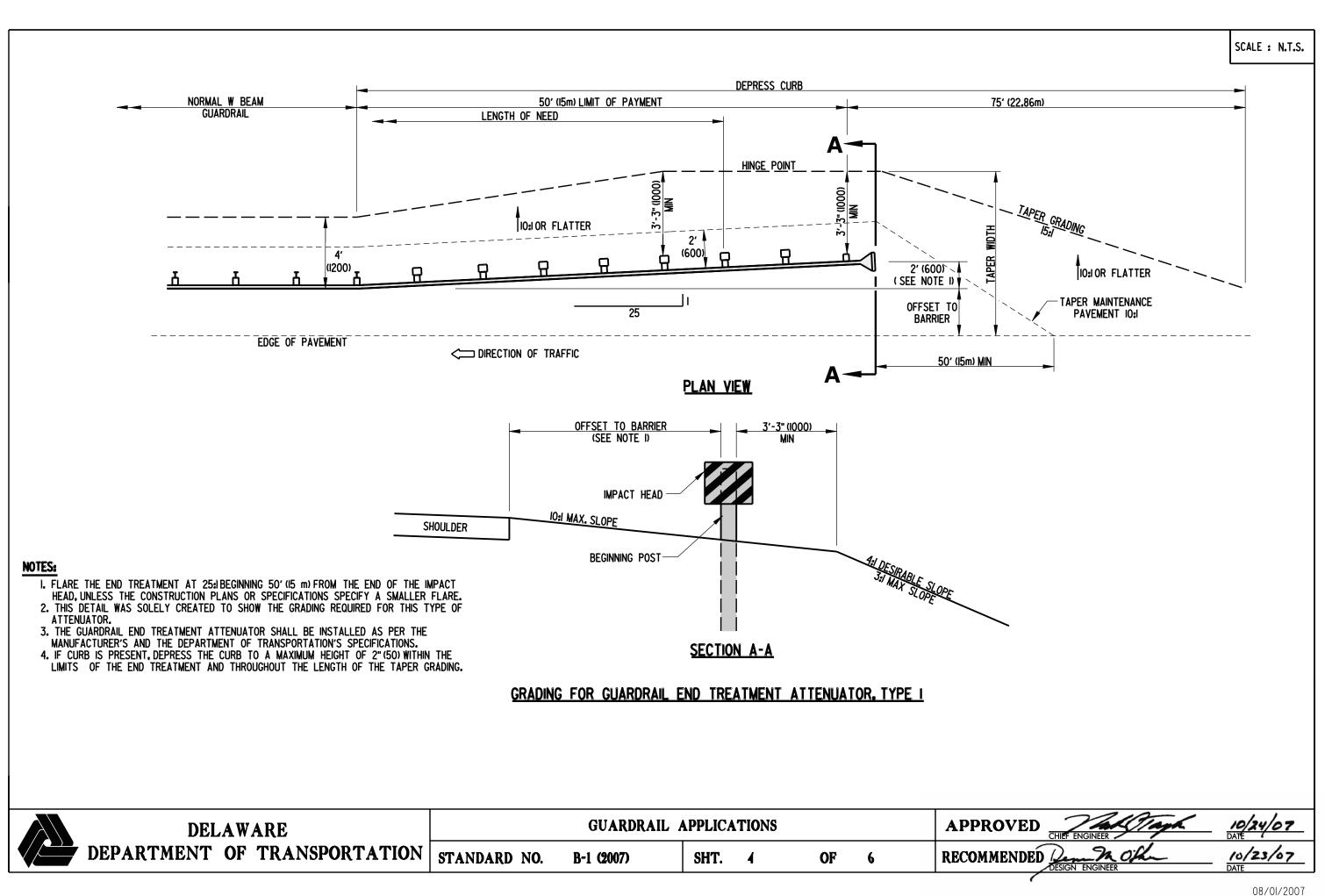
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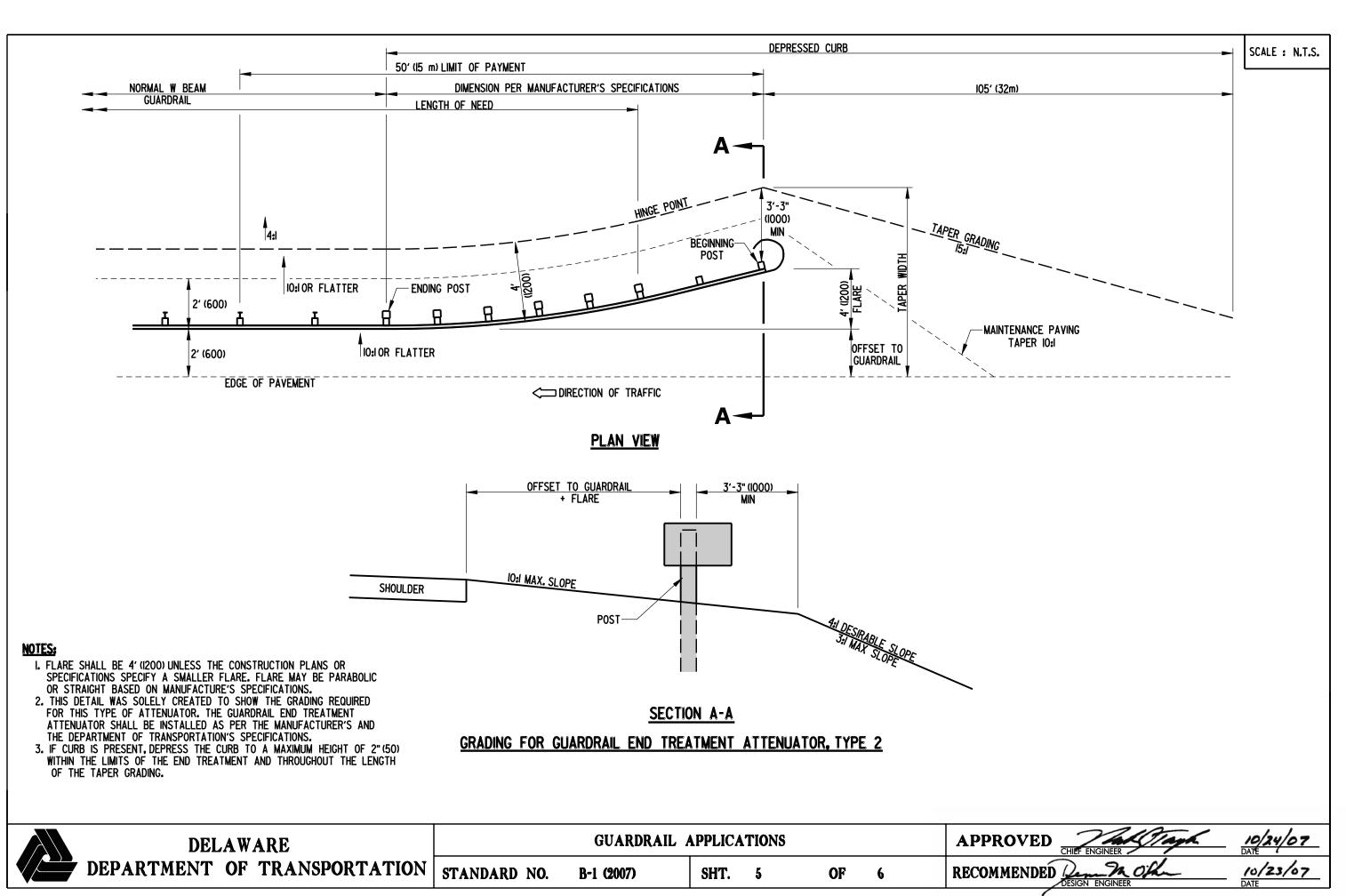
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DELAWARE		GUARDRAIL	APPLIC	ATIONS			APPRO
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-1 (2002)	SHT.	3	OF	6	RECOMME

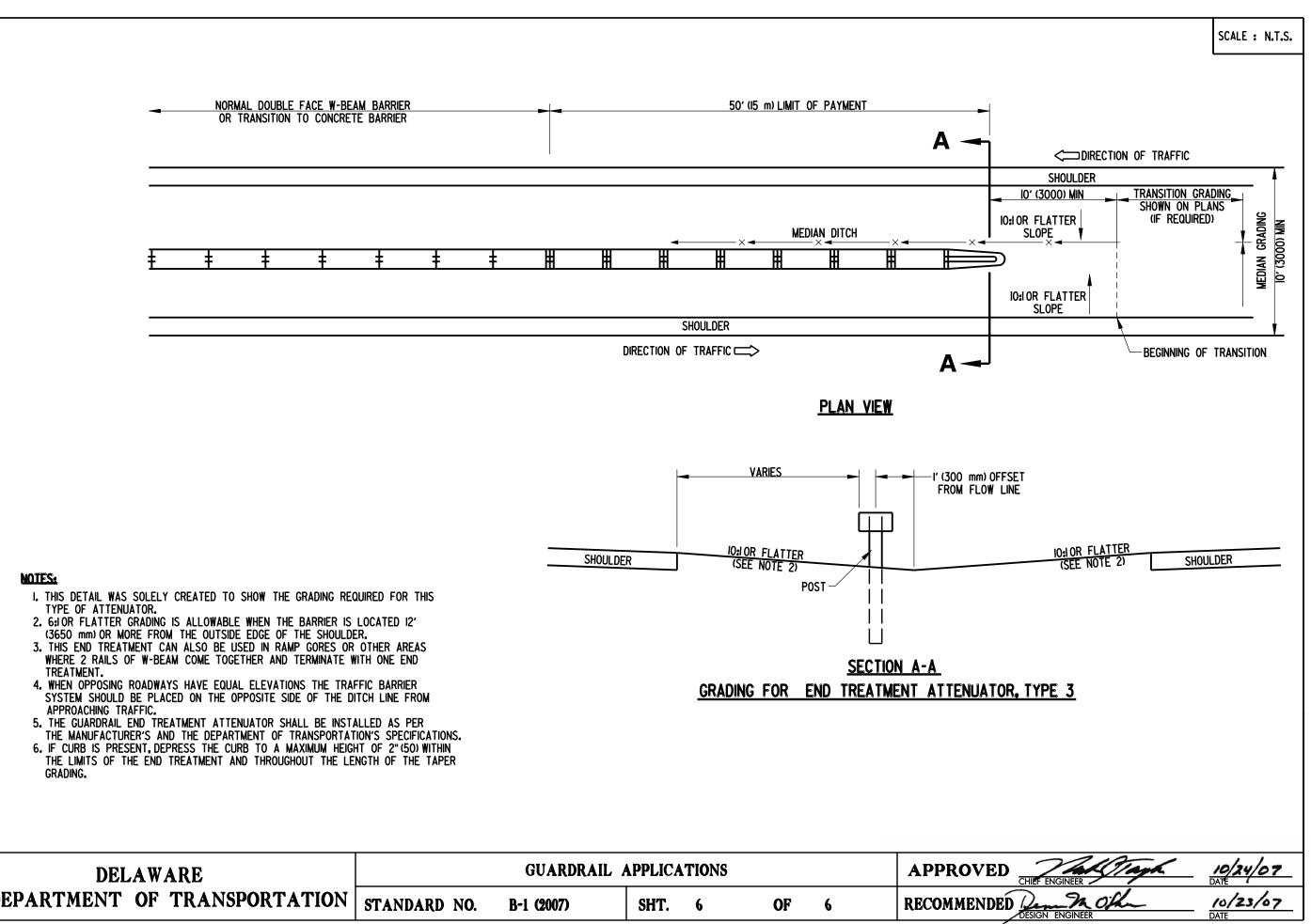






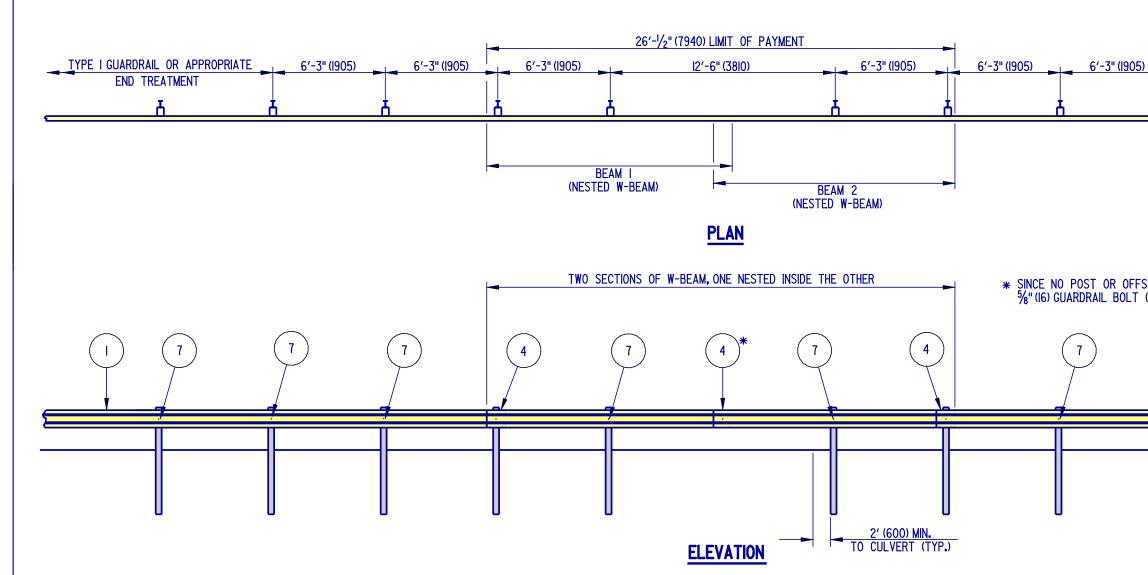
DELAWARE		GUARDRAIL	APPLICA	TIONS			APPRO
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-1 (2007)	SHT.	5	OF	6	RECOMM

08/01/2007



DELAWARE		GUARDRAIL	APPLICA	TIONS			APPR
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-1 (2007)	SHT.	6	OF	6	RECOM

06/06/2007

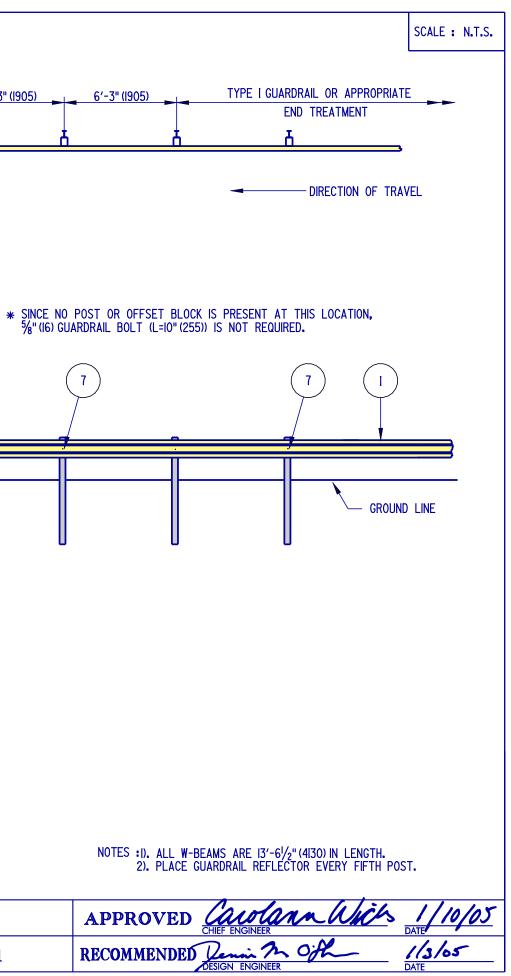


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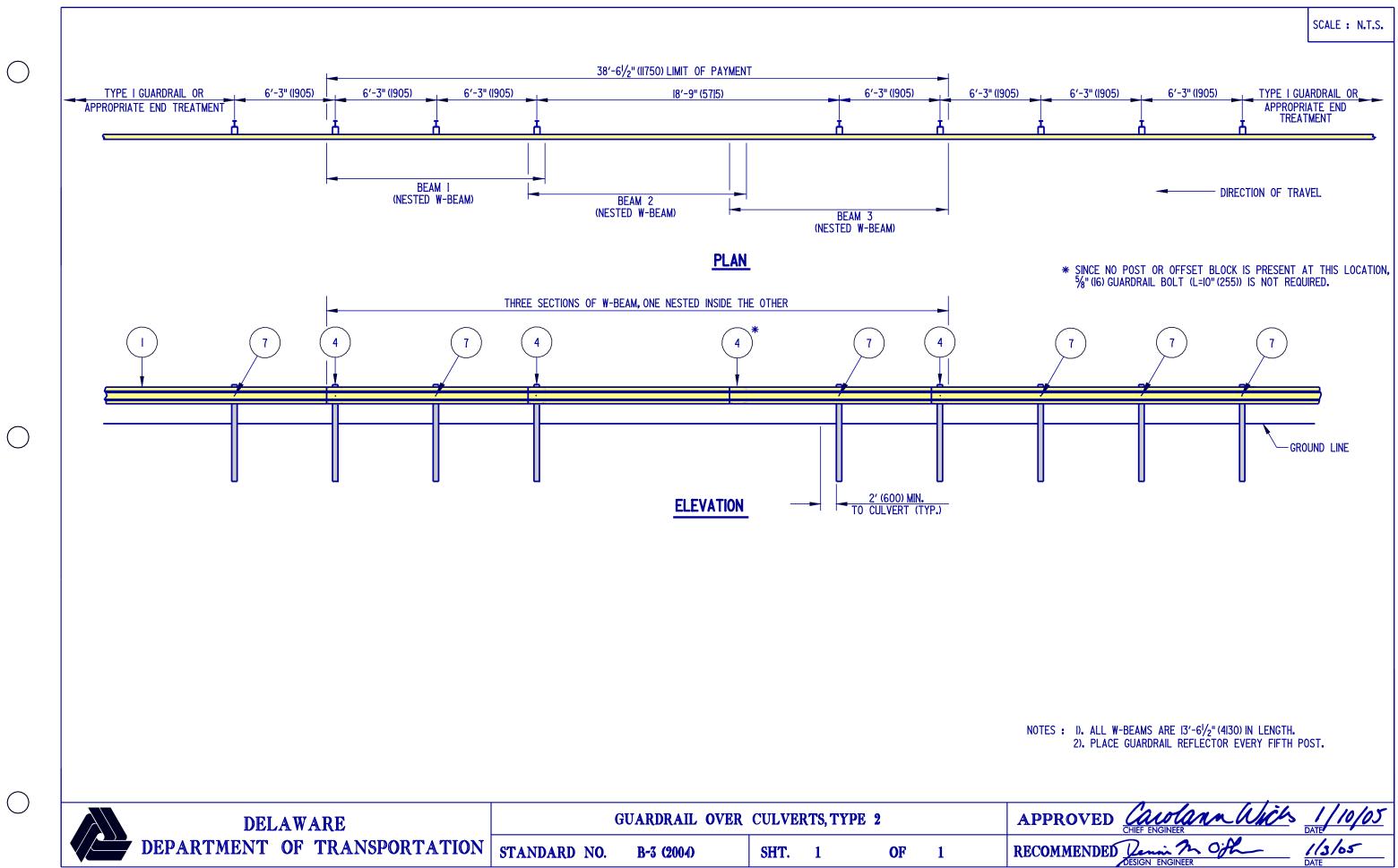
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DELAWARE		UARDRAIL OVER	CULVE	RTS, TYPI	E 1		APPRC
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-2 (2004)	SHT.	1	OF	1	RECOMM

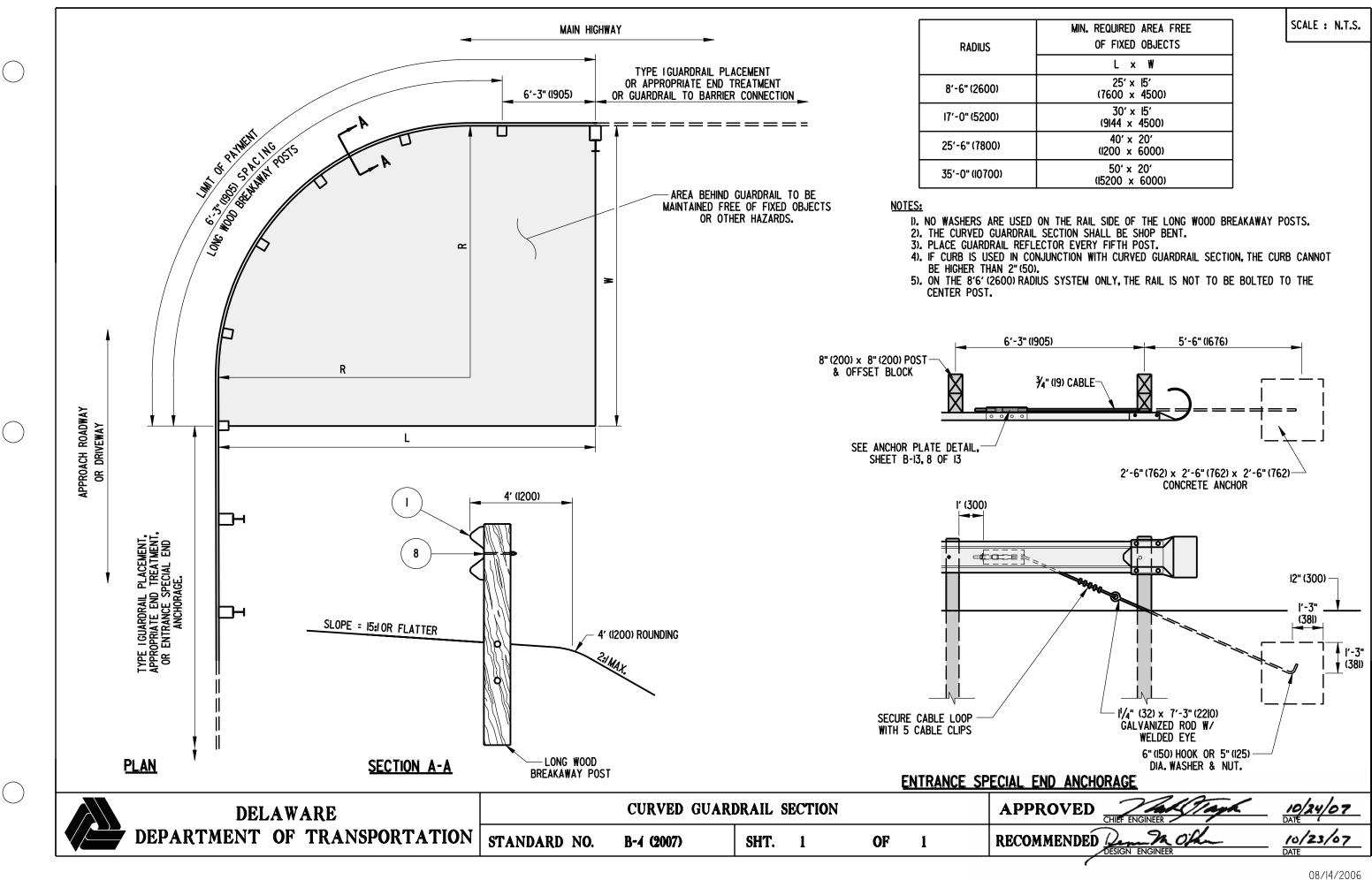


12/08/2004



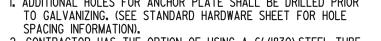
	DELAWARE		GUARDRAIL OVER CULVERTS, TYPE 2							APPRO
	DEPARTMENT	OF TRANSPORTATION	STANDARD	N O .	B-3 (2004)	SHT.	1	OF	1	RECOMM

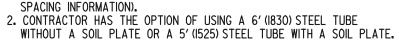
12/08/2004



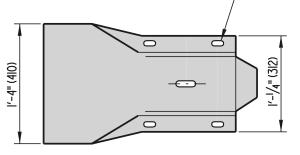
MIN. REQUIRED AREA FREE
OF FIXED OBJECTS
L × W
25' × 15' (7600 × 4500)
30' × 15' (9144 × 4500)
40' × 20' (200 × 6000)
50' × 20' (15200 × 6000)

DELAWARE	END ANCHORAGE						
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-5 (2002)	SHT.	1	OF	1	RECOMN

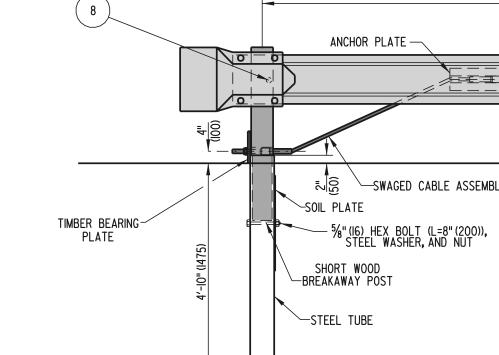


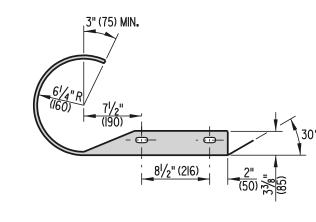


I. ADDITIONAL HOLES FOR ANCHOR PLATE SHALL BE DRILLED PRIOR TO GALVANIZING. (SEE STANDARD HARDWARE SHEET FOR HOLE



END SECTION ELEVATION



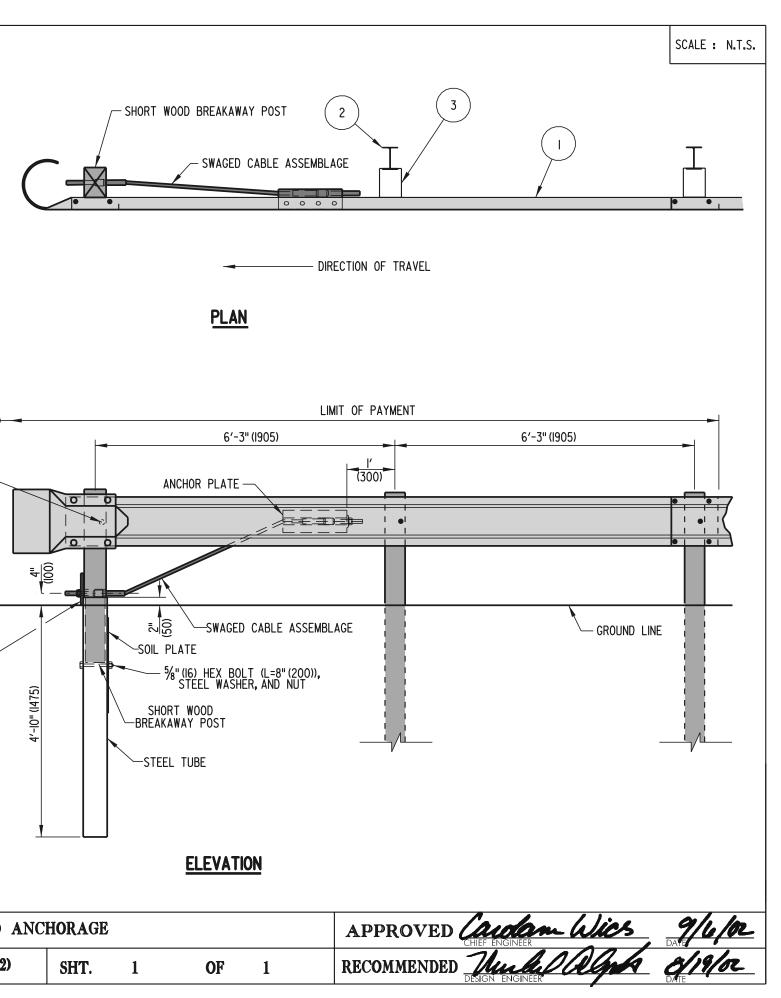


END SECTION PLAN

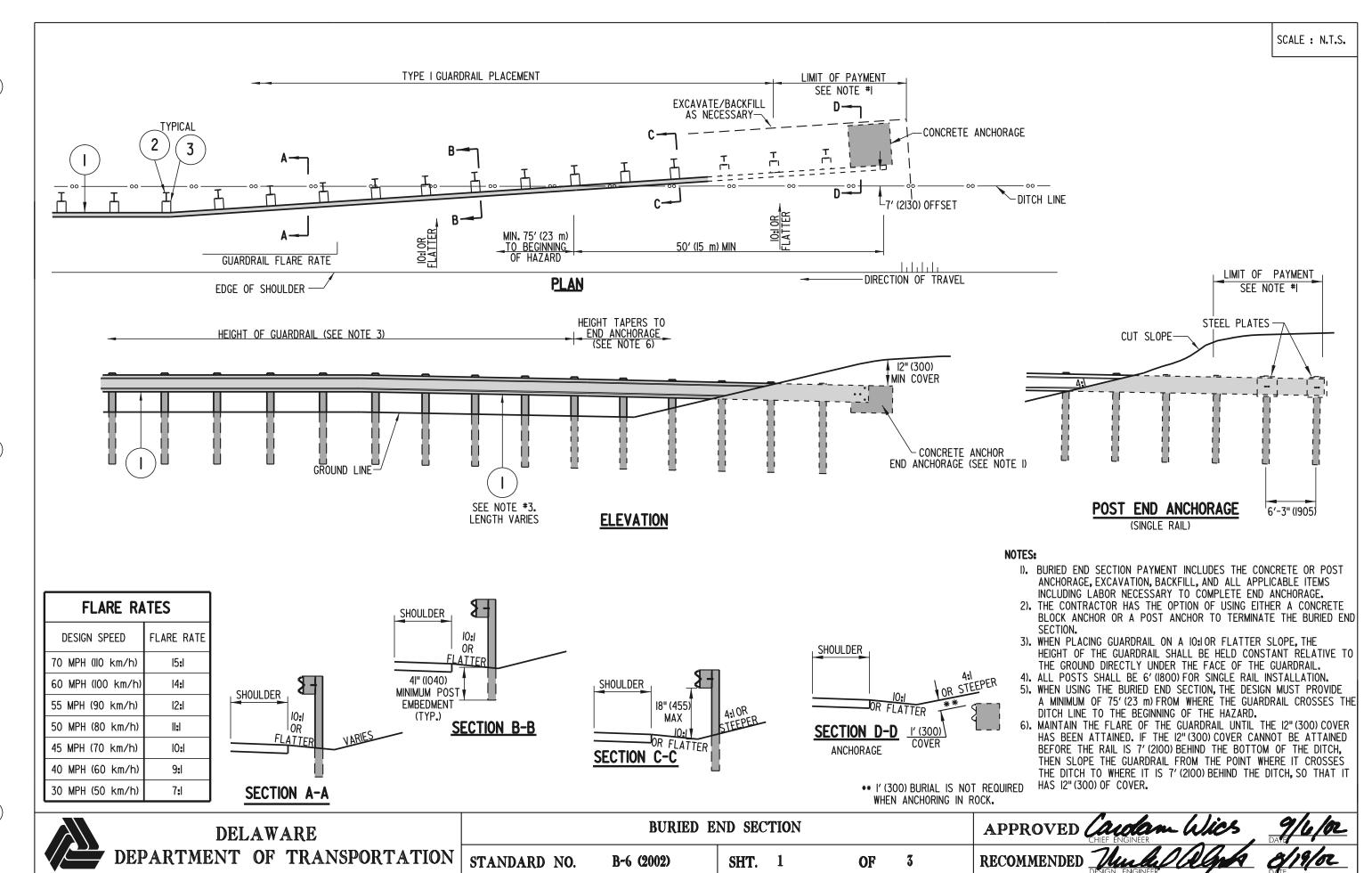
²⁹/₃₂" (24) × 11/8" (30) SLOT (TYP.) —

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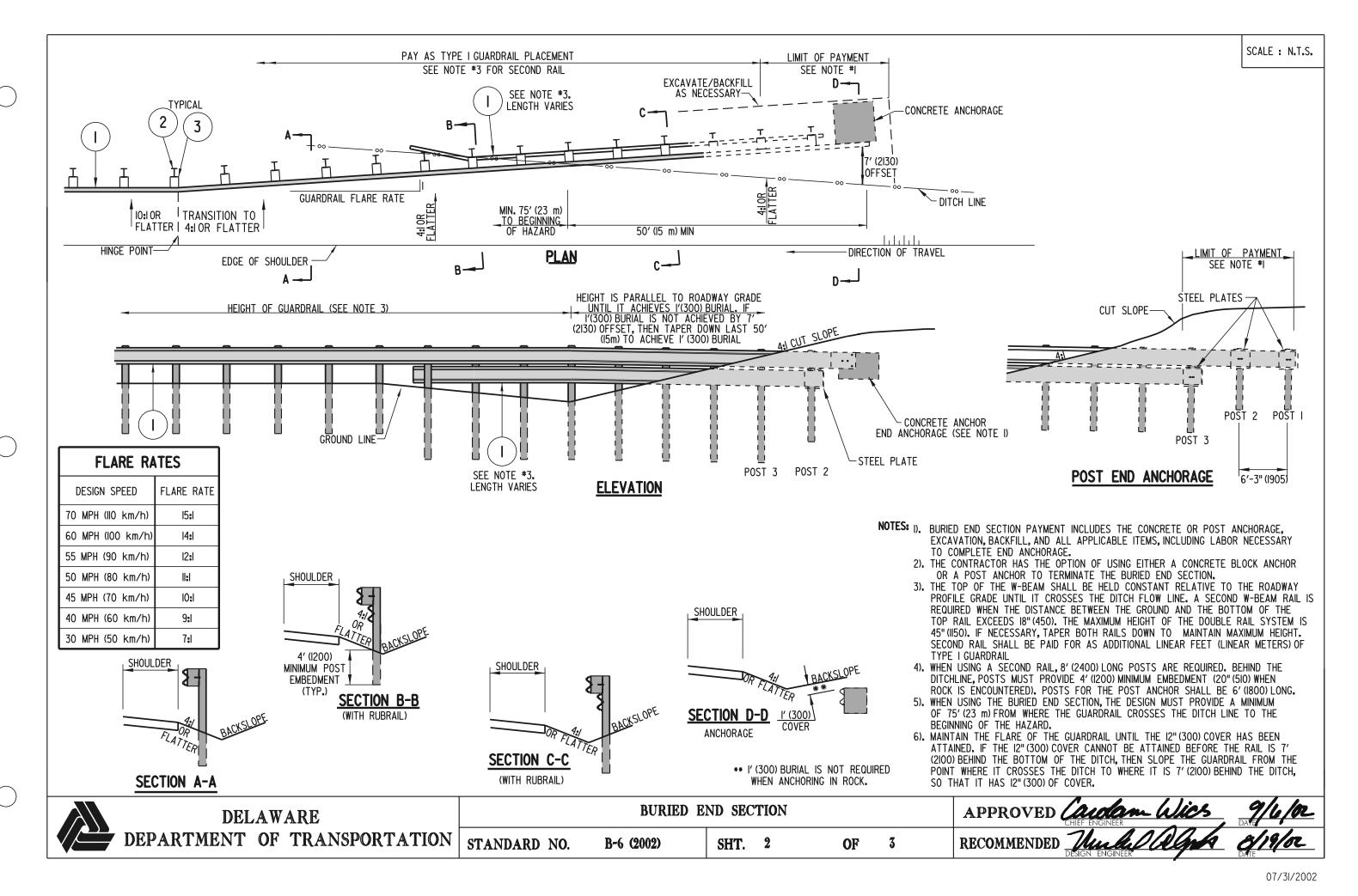
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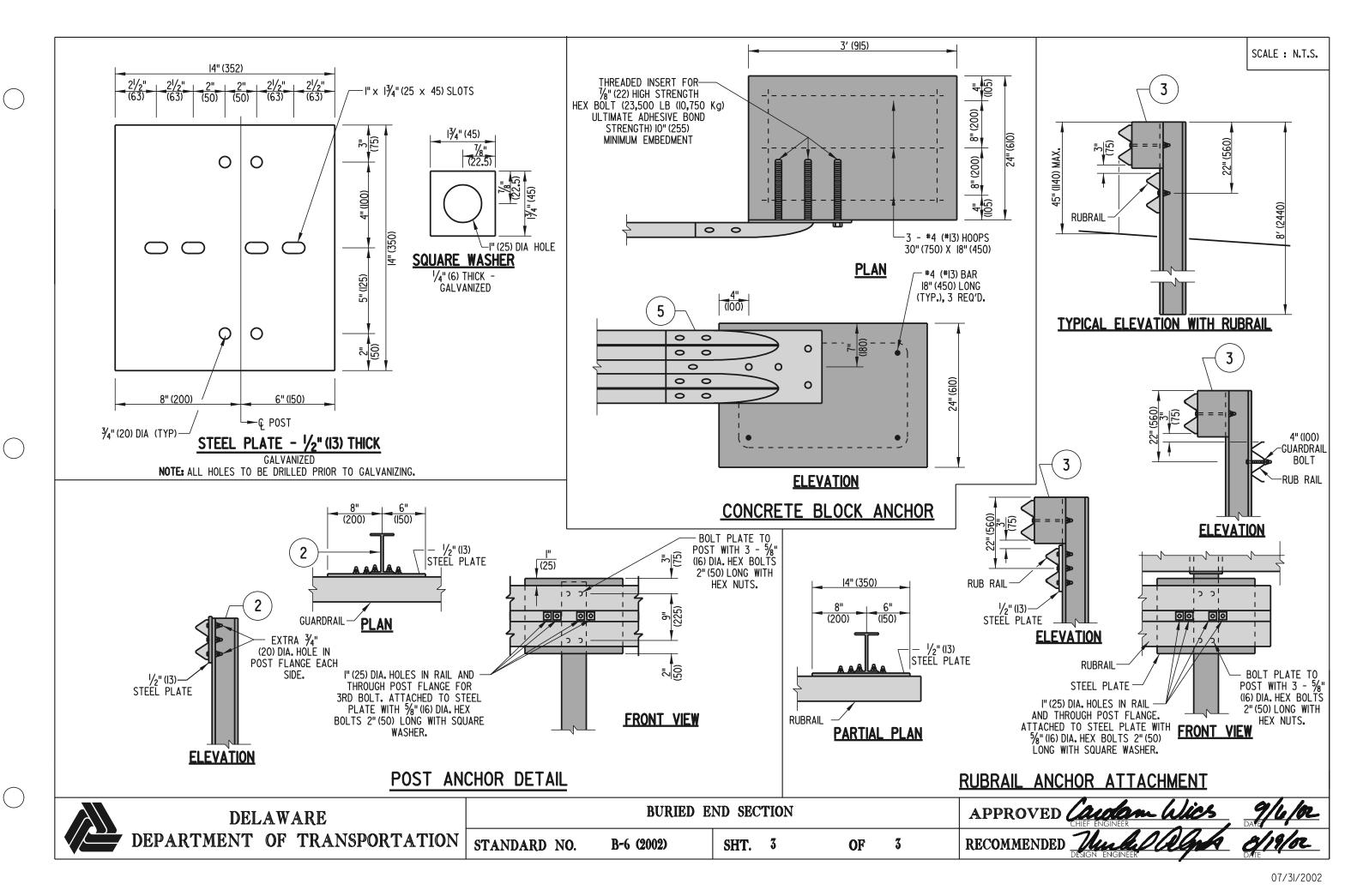


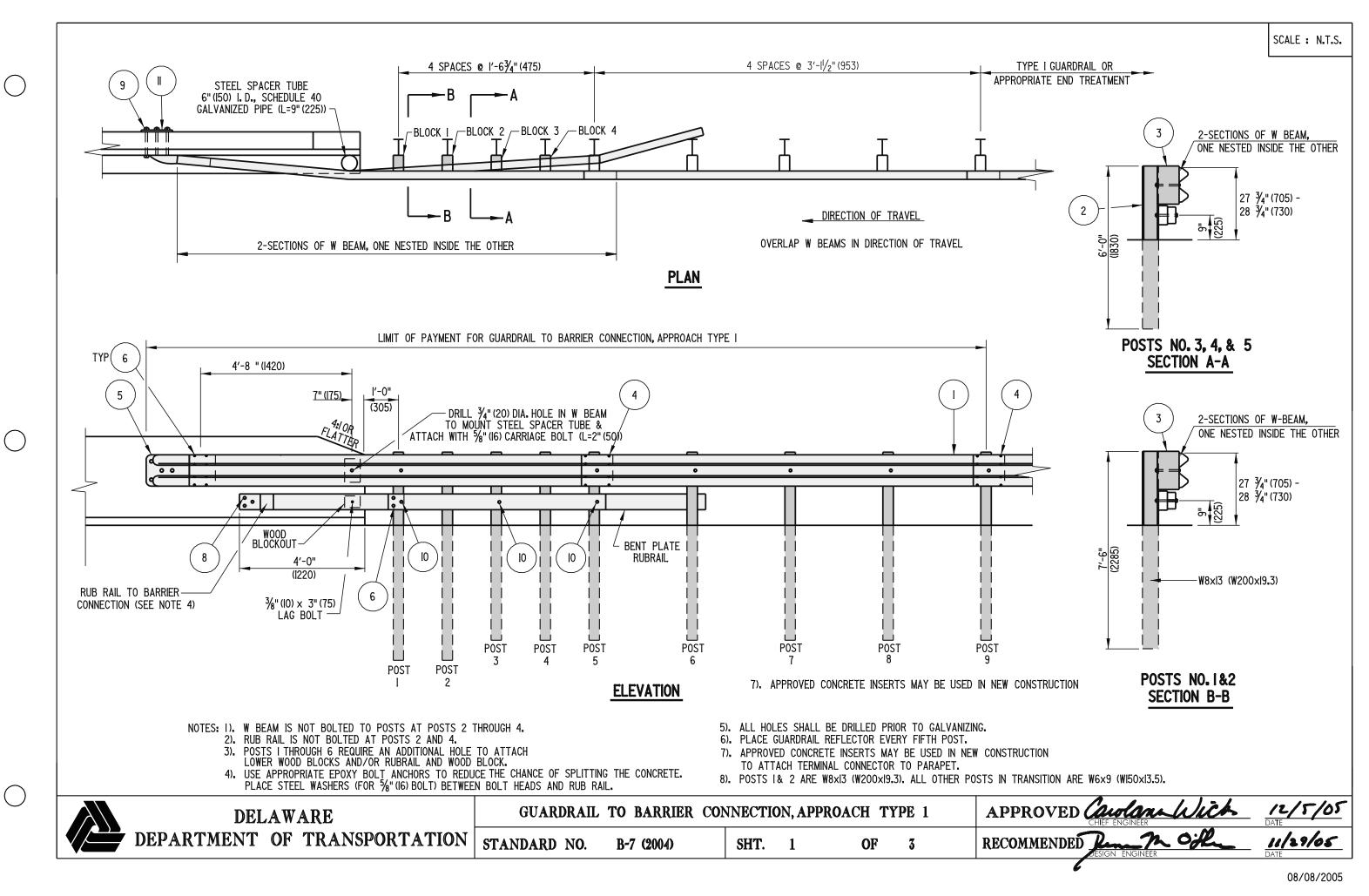
07/31/2002



07/31/2002







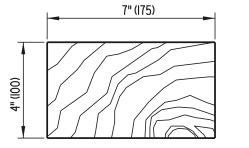


	DELAWARE	GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1						
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-7 (2001)	SHT.	2	OF	3	RECOM

RUB RAIL WOOD BLOCKS (7" (175) × 4" (100))										
POST NO.	WIDTH	BOLT LENGTH								
I	4 ¹ /4" (108)	6" (150)								
2	3 ¹ ⁄4" (83)	4" (100)								
3	2" (50)	4" (100)								
4	l" (25)	2" (50)								

RUB RAIL WOOD BLOCKS





ELEVATION

7" (175)

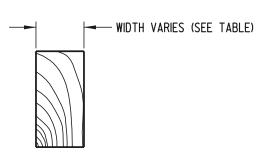
3[|]/2"

(87.5)

4¹/2" (115)

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5[|]/2" (140)

2¹/4".

(57)

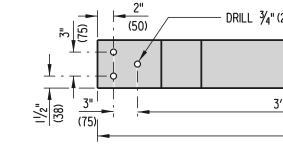
RIGHT SIDE

RIGHT SIDE

2<mark>//4</mark>" (57.5)

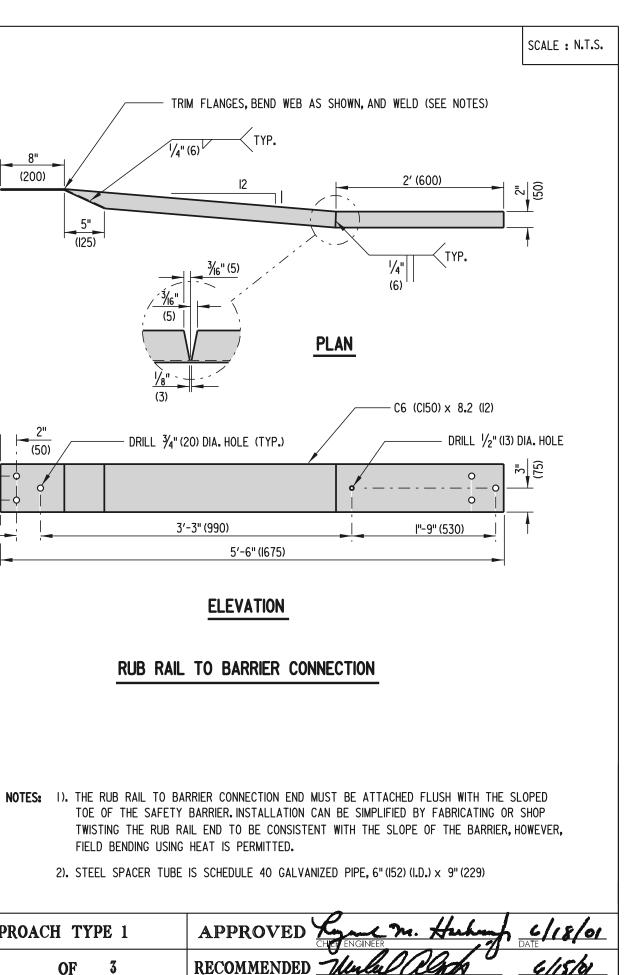
DRILL 1/4" (6) DIA. HOLE

WOOD BLOCKOUT DETAIL



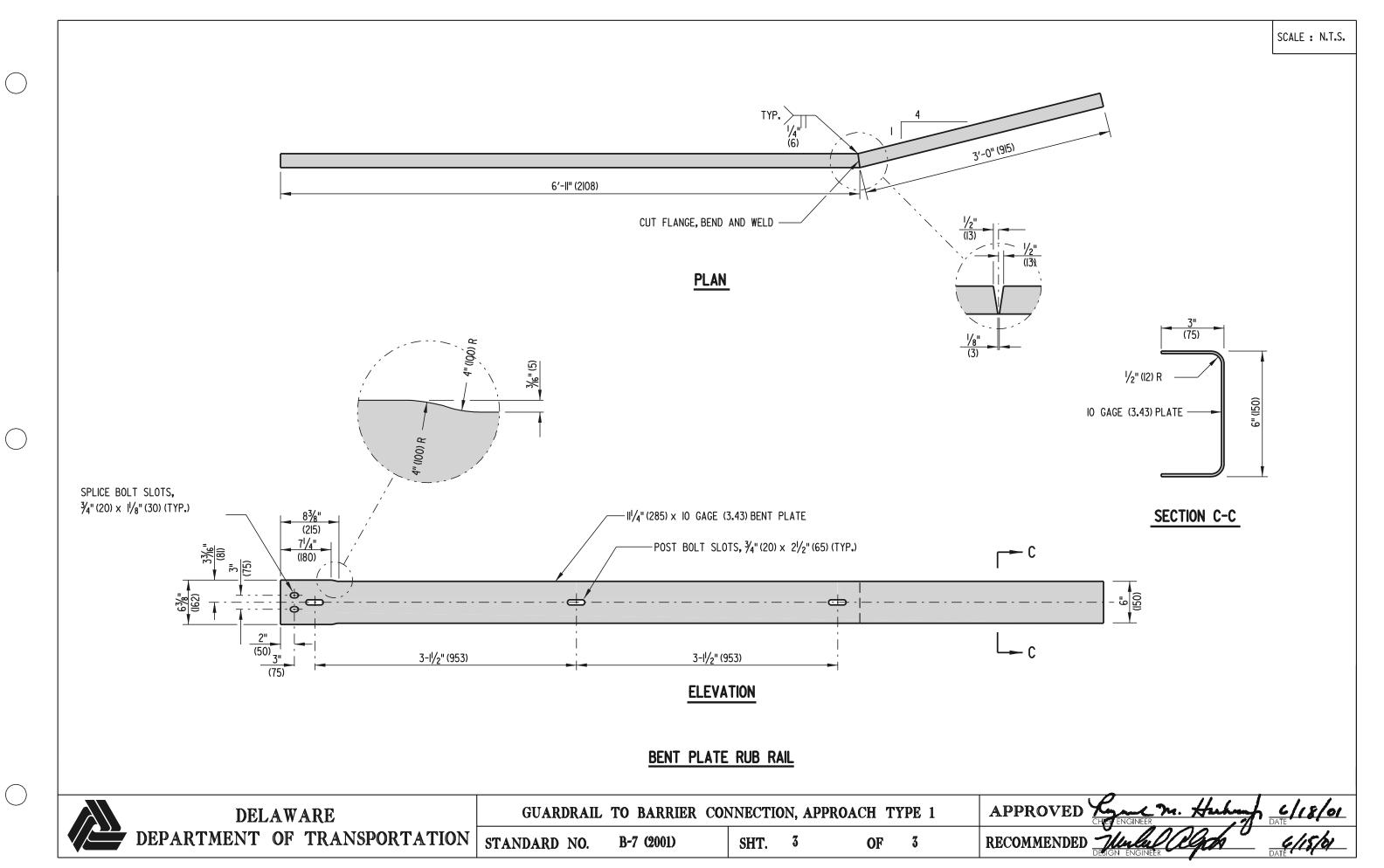
8"

(200)

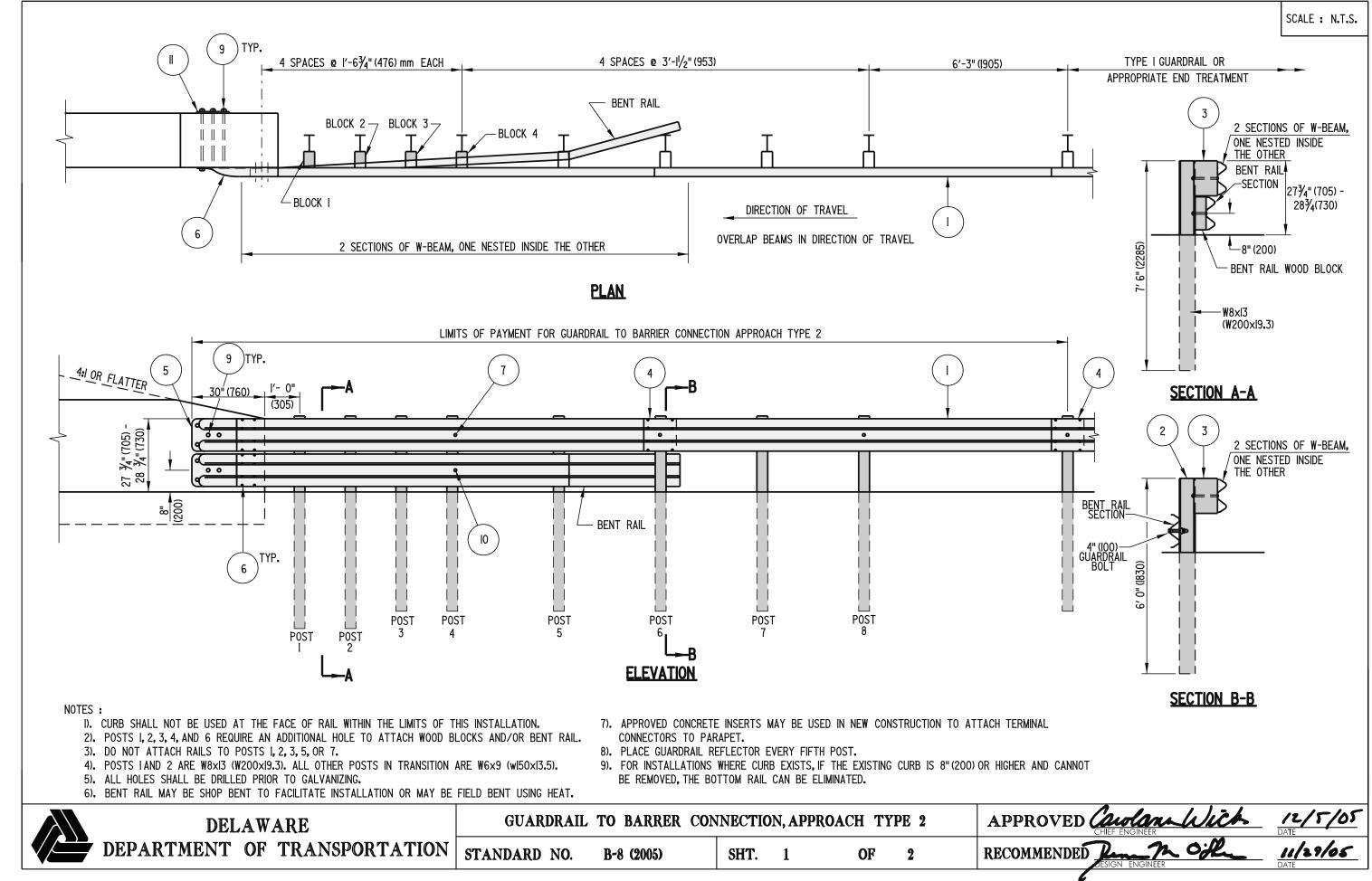


<u>2"</u> (50)

04/05/2001



04/05/2001

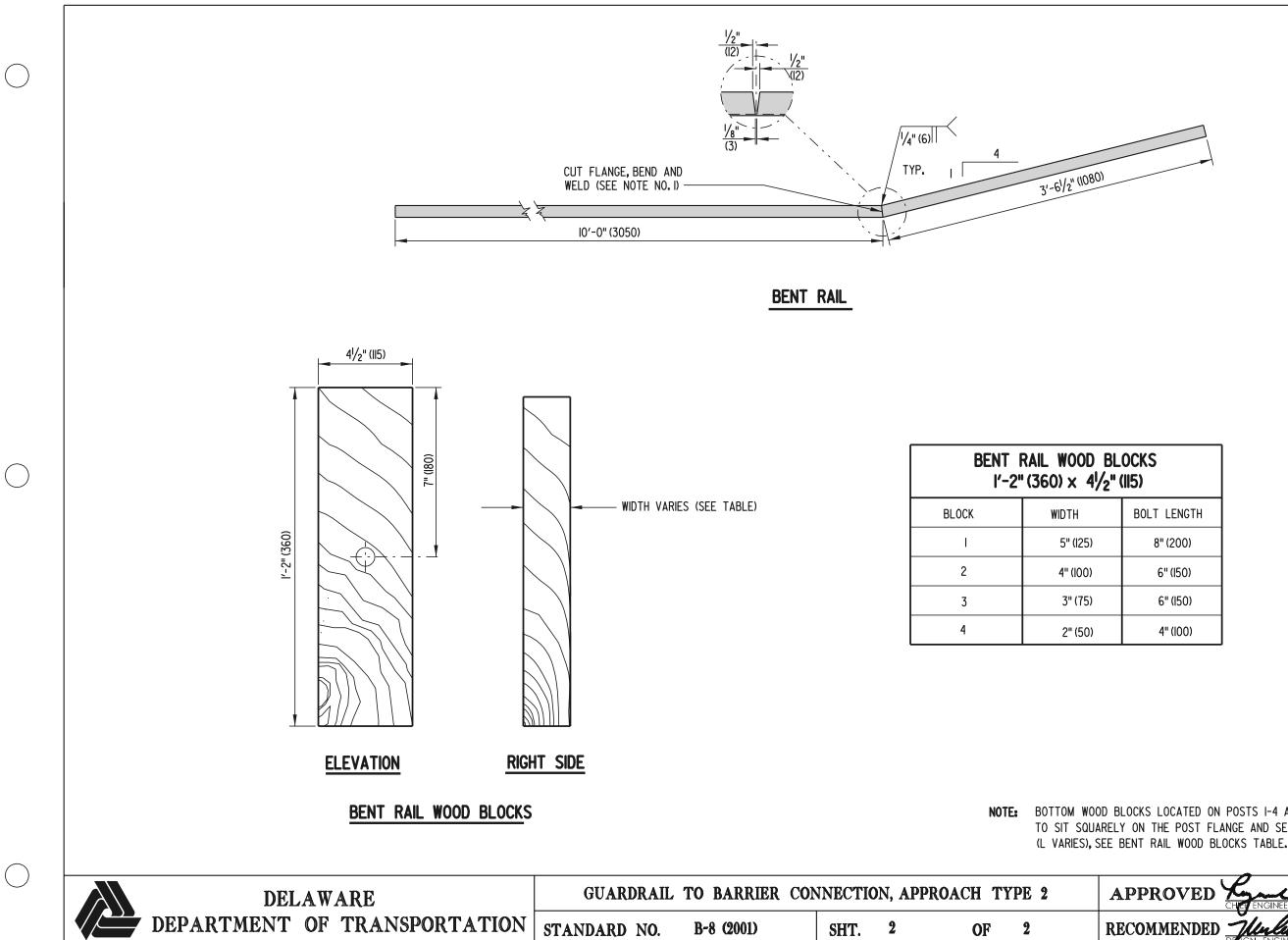


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^{10/17/2005}



6/18/01 04/05/2001

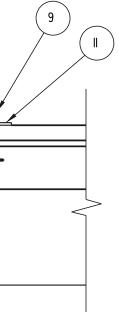
BOTTOM WOOD BLOCKS LOCATED ON POSTS I-4 ARE OFFSET DRILLED TO SIT SQUARELY ON THE POST FLANGE AND SECURED WITH $\frac{5}{8}$ " (16) CARRIAGE BOLTS

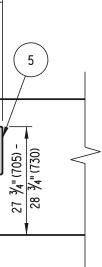
KS)
OLT LENGTH
8" (200)
6" (150)
6" (150)
4" (100)

SCALE : N.T.S.

\bigcirc						2′-8¾" (8	332)
			Ţ				
			DIRECTION OF TRAV	' <u>EL</u>			
			<u>PLAN</u>				
\supset	TYPE I GUARDRAIL APPLICATION OR APPROPRIATE END TREATMENT	LIMIT OF PAY 6'-3" (1905)	MENT FOR GUARDRAIL TO E	BARRIER CONNECTION, E 5'-3" (1600)		•	9)(
	→ → [/] / ₈ " (28) TYP.		o			AI OR FLATTE	
							27 34"(
	4			A .			NOTES:
			<u>ELEVATION</u>	<u>\</u>			
\bigcirc	DELAWARE		AIL TO BARRIER	CONNECTION,	EXIT TYP	E	APPRO
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-9 (2002)	SHT. 1	OF	1	RECOMM



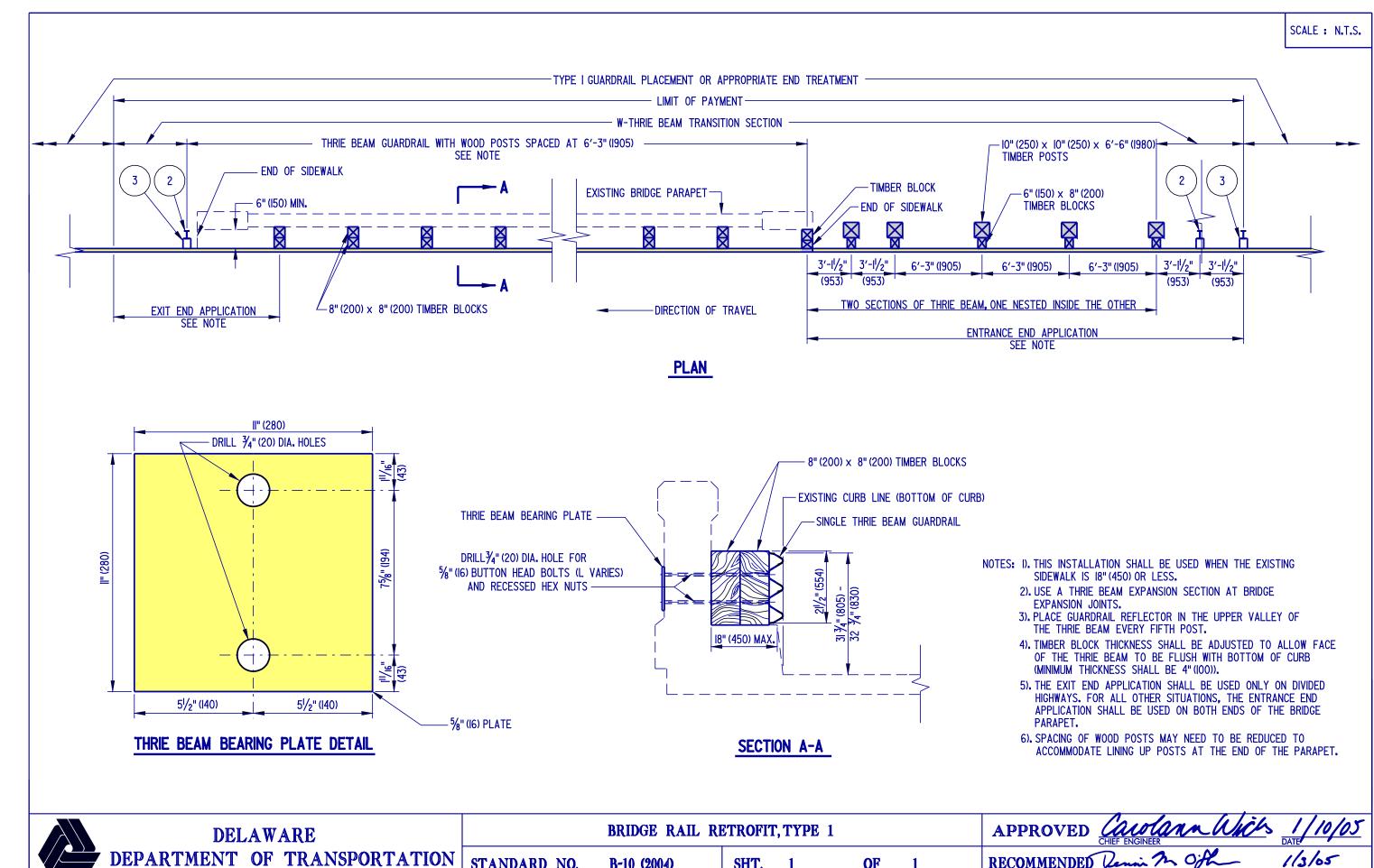




- TES: 1). CONCRETE INSERTS MAY BE USED IN NEW CONSTRUCTION TO ATTACH TERMINAL CONNECTOR TO PARAPET,
 - 2). GUARDRAIL SECTION AND TERMINAL CONNECTORS SHALL BE OVERLAPPED IN THE DIRECTION OF TRAVEL.
- 3). INSTALLATION SHOWN ABOVE WITH AN 'F-TYPE' BARRIER FACE. GUARDRAIL SECTION OF BARRIER CONNECTION SHALL BE ADJUSTED HORIZONTALLY IN ORDER TO MEET FLUSH AGAINST VARIOUS TYPES OF WALLS AND BARRIERS.

ROVED Landa IMENDED Multip ð 1or

04/23/2002



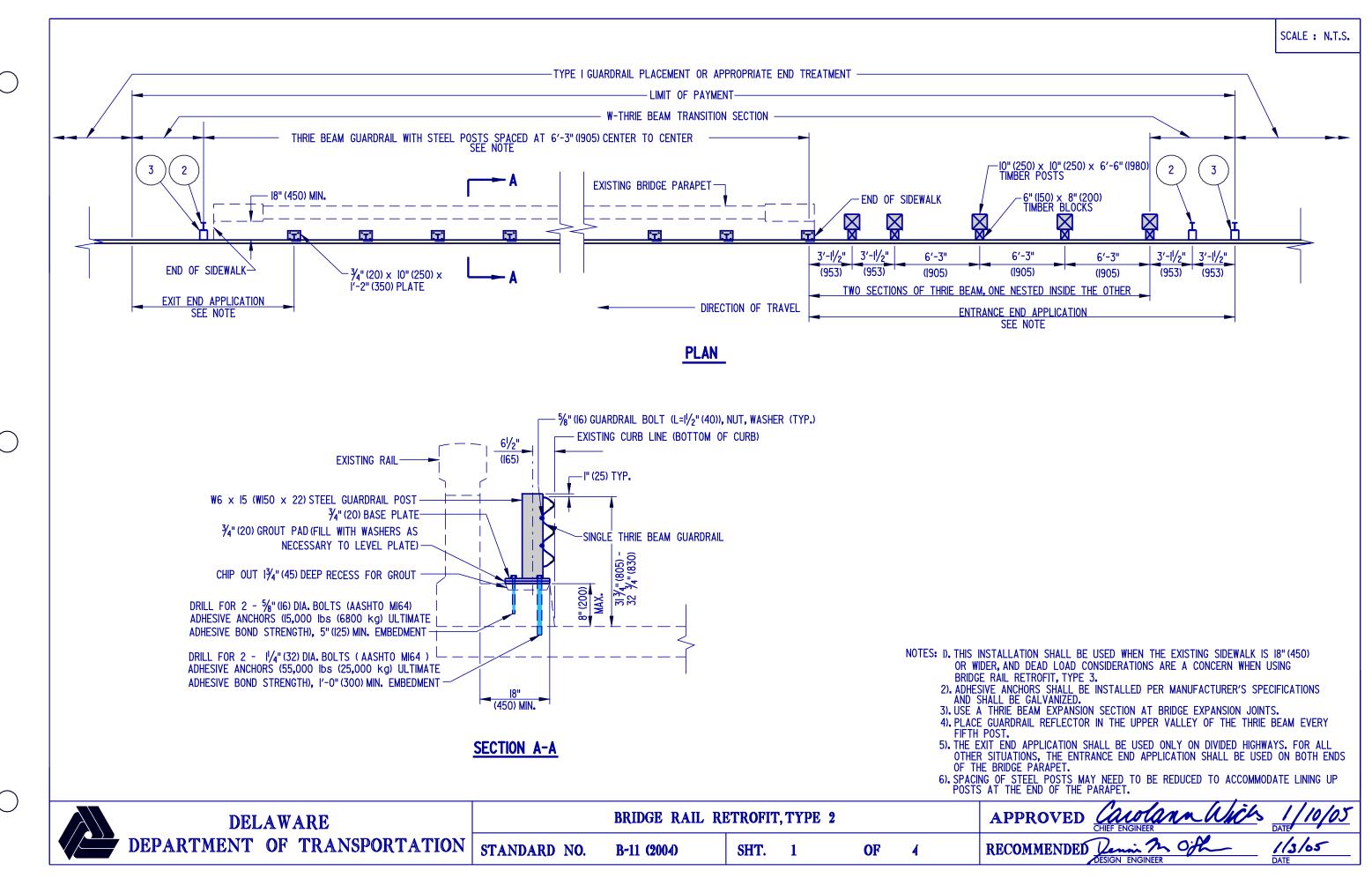
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DELAWARE	BRIDGE RAIL RETROFIT, TYPE 1						APPROV
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-10 (2004)	SHT.	1	OF	1	RECOMME

12/08/2004

DATE

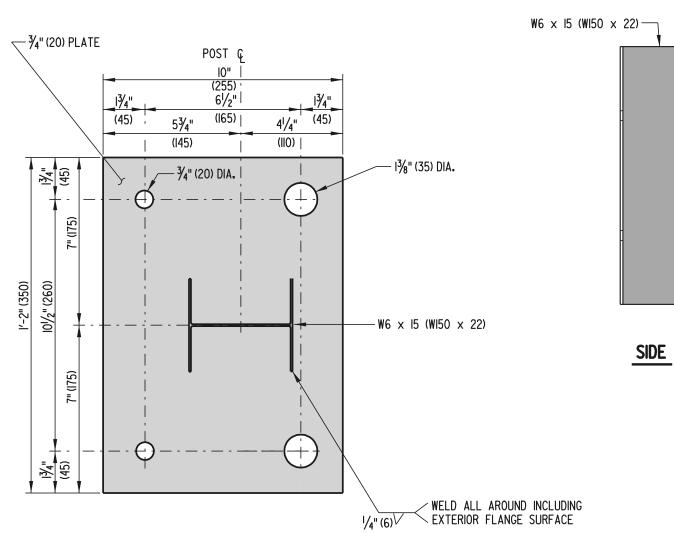
GN ENGINEER



12/08/2004

<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	WELD ALL AROUND INC	ELUDING FACE			В 🔫			- - TR≀	AFFIC FACE
BASE PLATE DETAIL							PLAN	_	
				<u>W6</u>	5 x 15 ((WI50	x 22)	STEEL	GUARDR
DELAWARE		BRIDGE RAIL R	ETROFI	T, TYI	PE 2				APPR
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-11 (2001)	SHT.	2		OF	2		RECOM

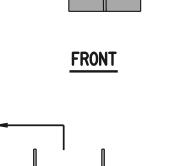
VARIES



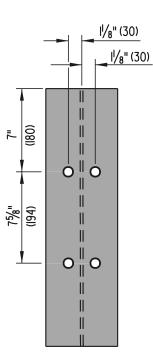
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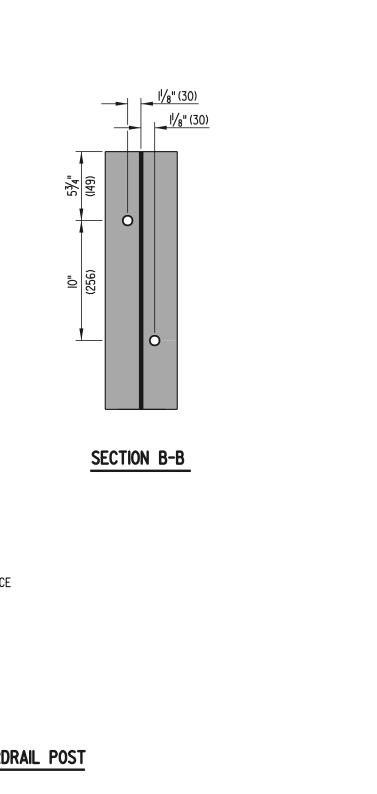
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В

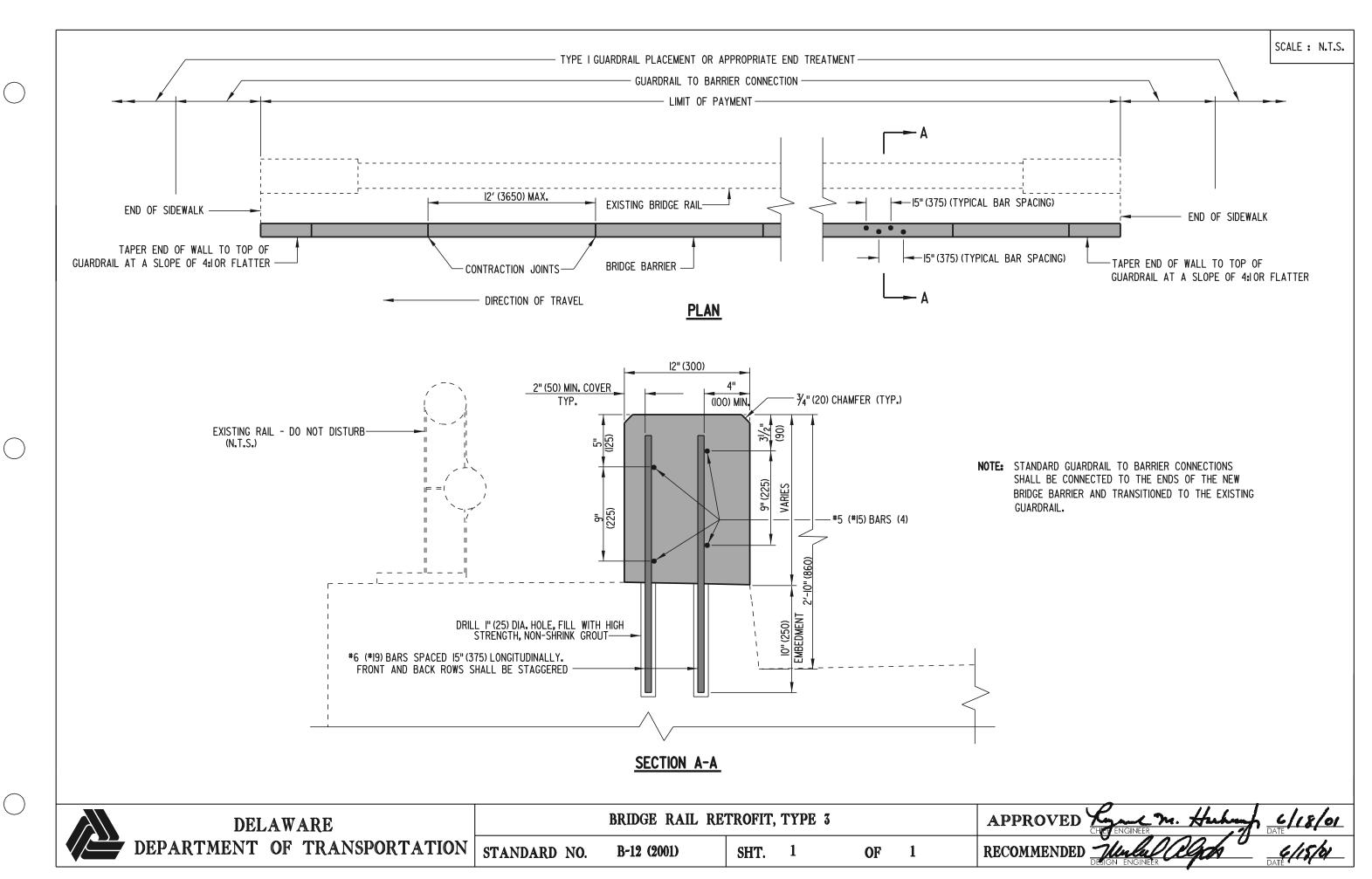




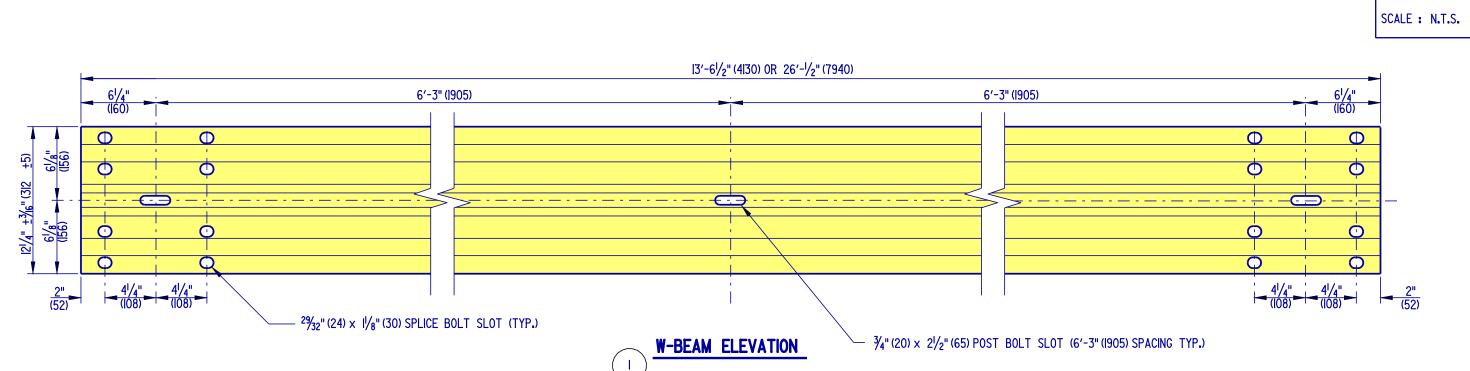
PROVED CHERENGINEER M. Huhm C/18/01 DATE DATE DATE

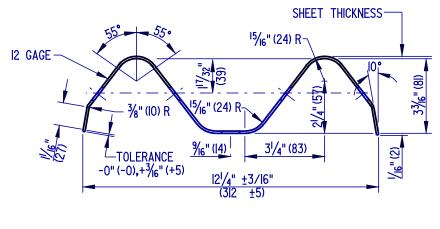
04/05/2001

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05/21/2001





W-BEAM SECTION

DELAWARE		HARDWARE							APPRO	
DEPARTMENT	OF	TRANSPORTATION	STANDARD	N O .	B-13 (2004)	SHT.	1	OF	13	RECOMM

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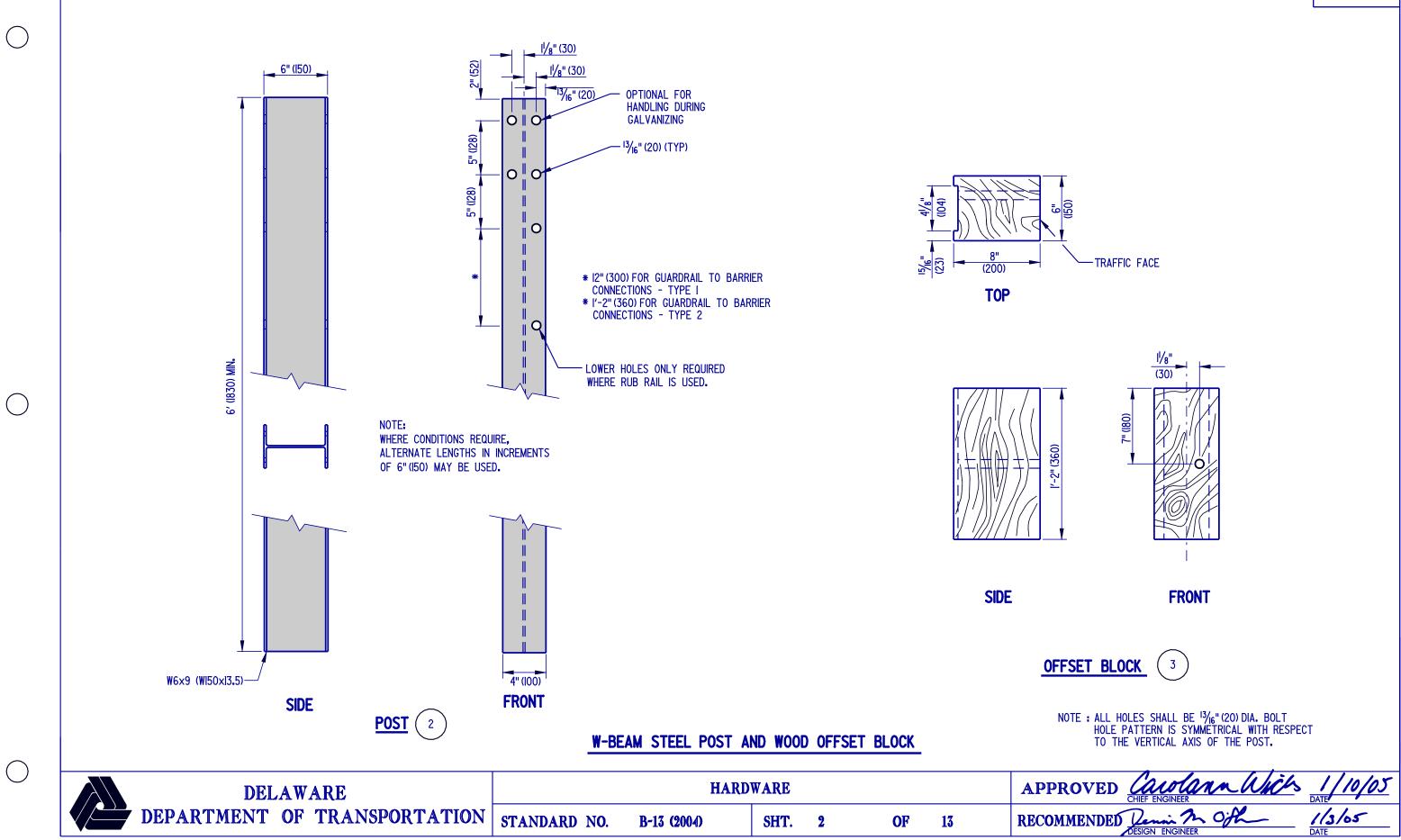
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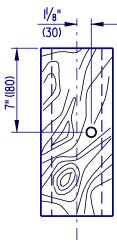
NOTES: I). TWO ADDITIONAL $\frac{3}{4}$ " (20) x $2\frac{1}{2}$ " (65) SLOTS SHALL BE PROVIDED AT 6'-3" (1905) SPACING FOR BEAM LENGTH OF 26'- $\frac{1}{2}$ " (7940).



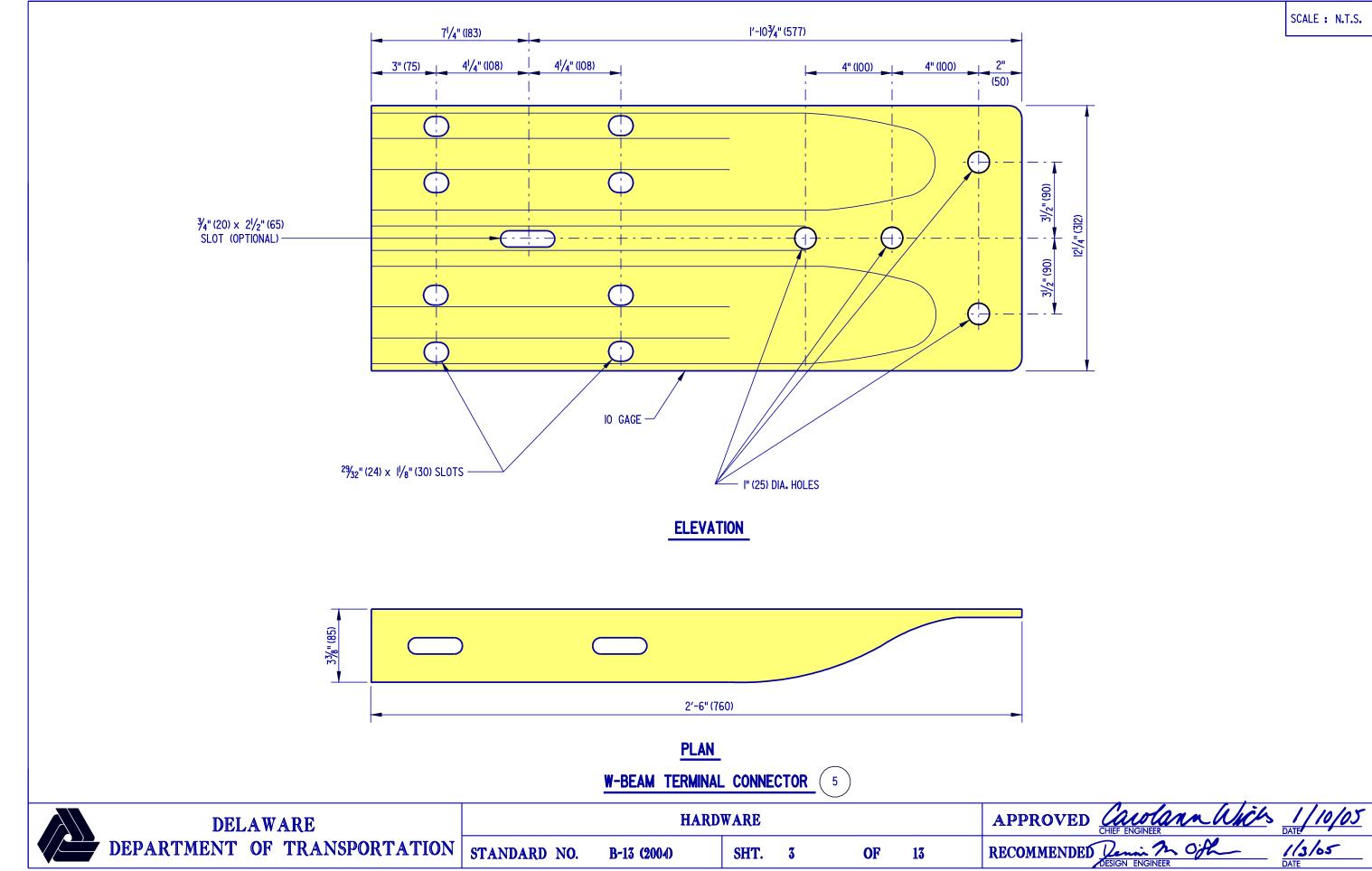
09/21/2004



SCALE : N.T.S.



09/28/2004



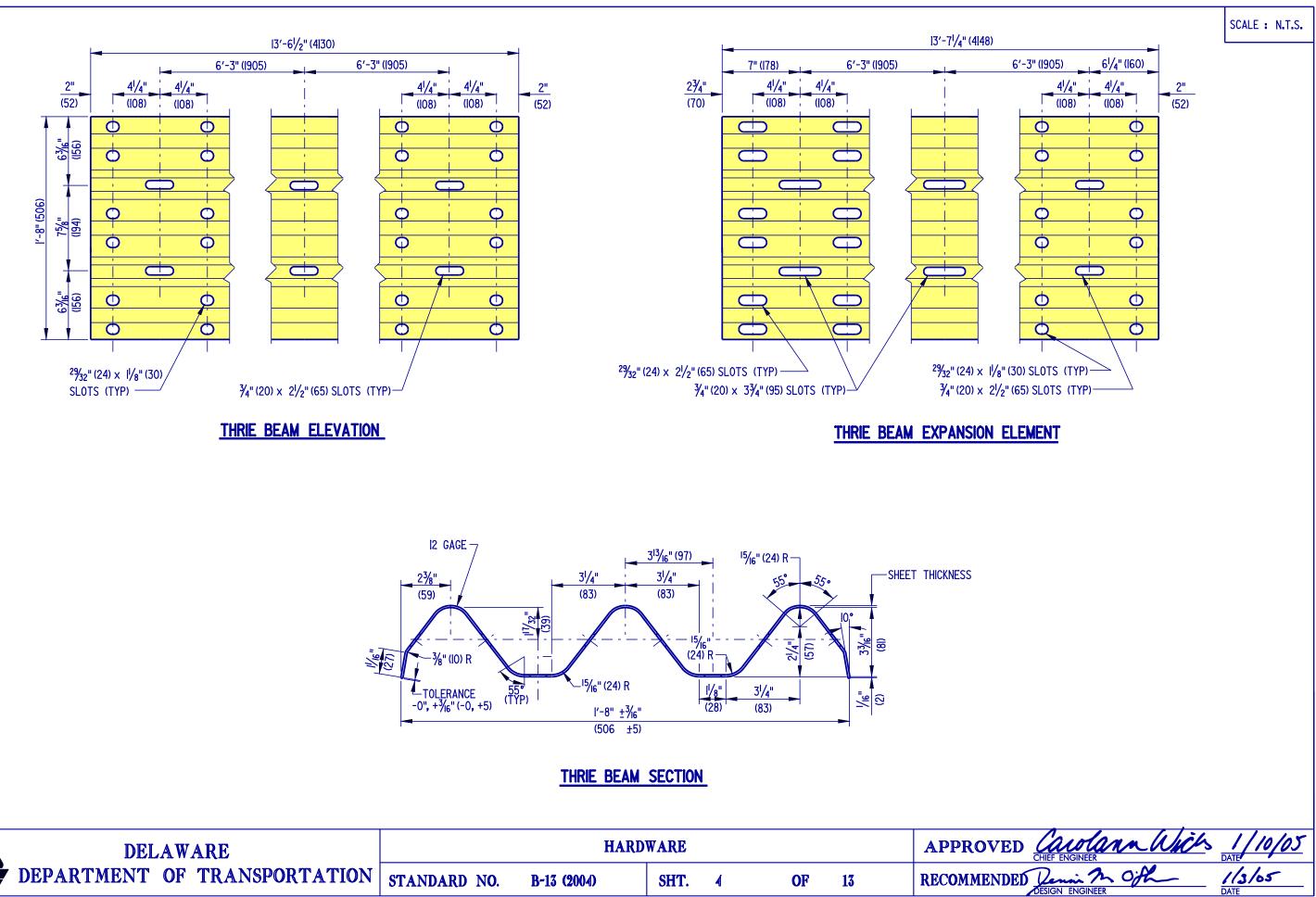
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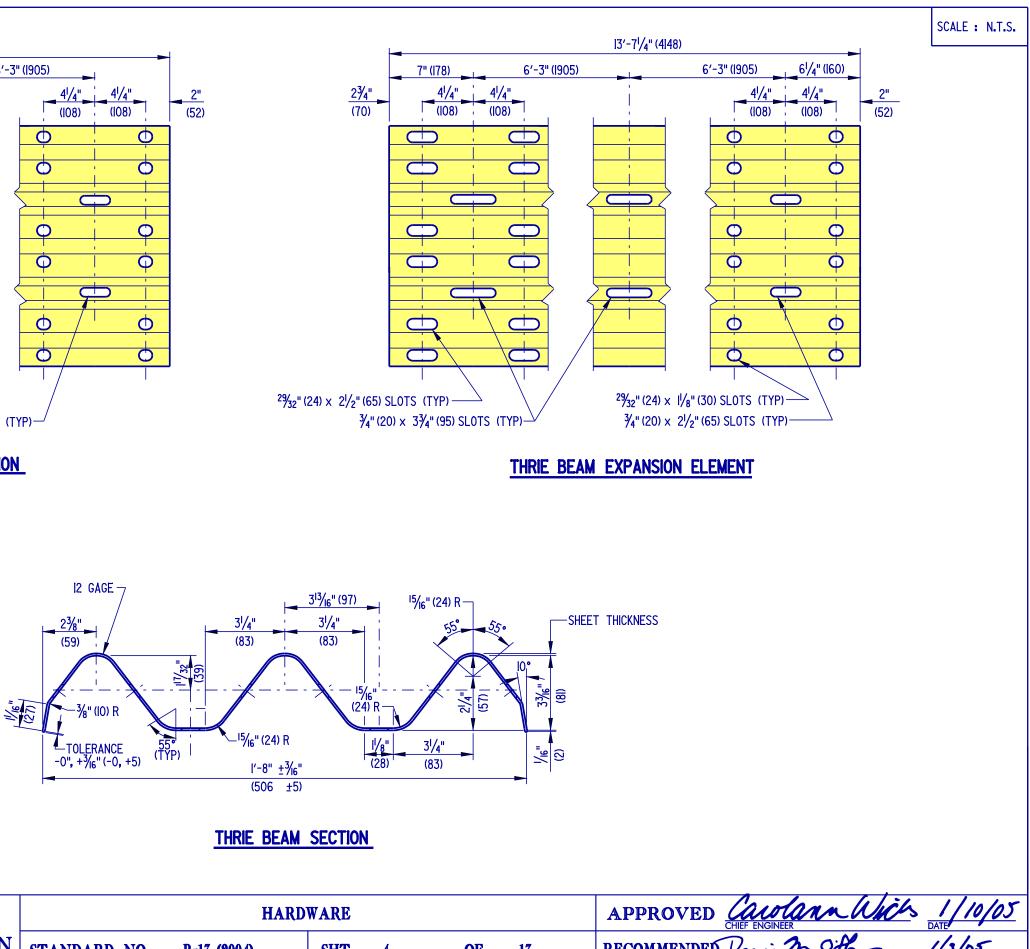
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09/27/2004





	DELAWARE	HARDWARE						
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-13 (2004)	SHT.	4	OF	13	RECOMME

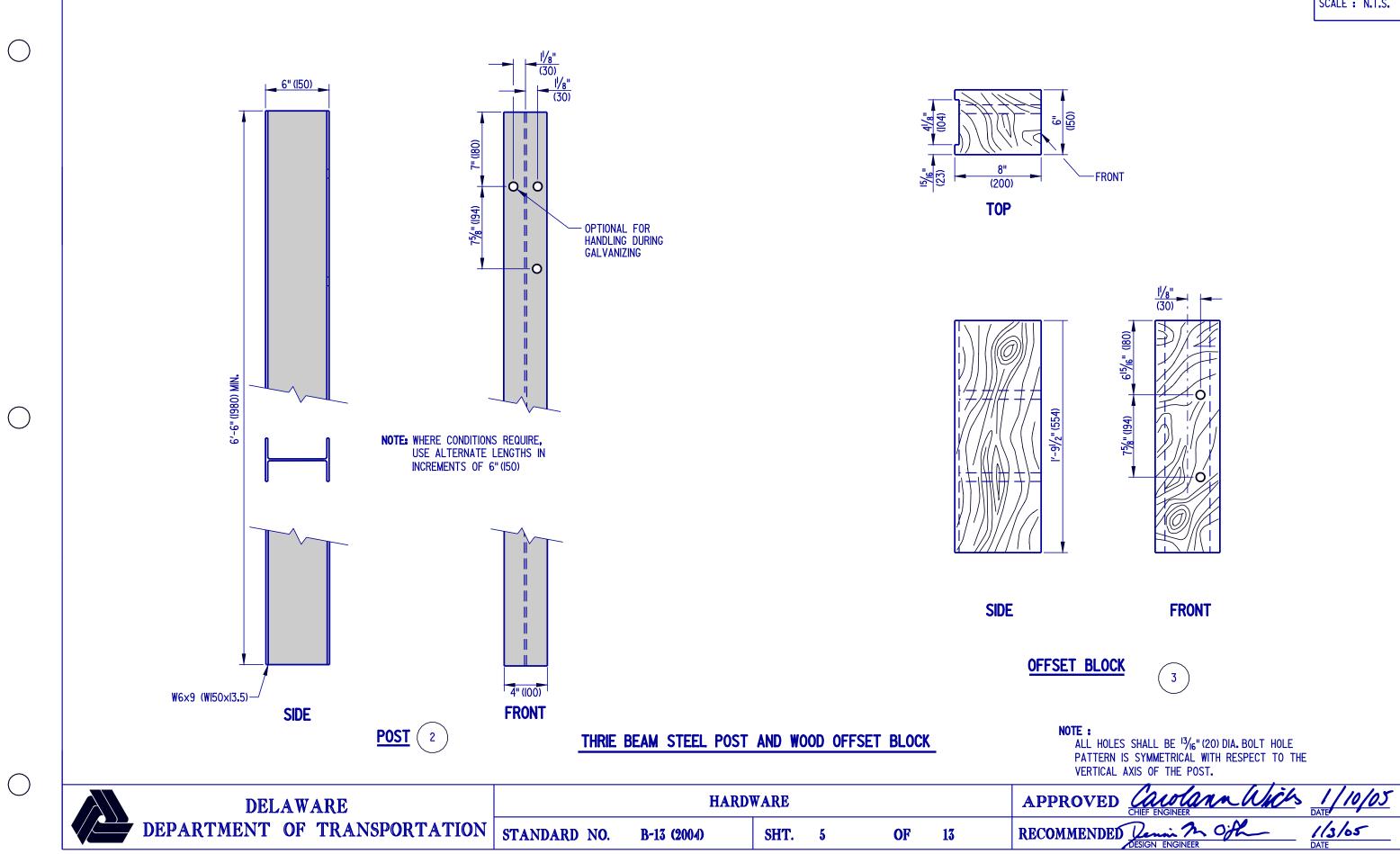
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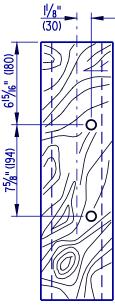
09/28/2004

SIGN ENGINEER



SCALE : N.T.S.







09/28/2004