OF

13

RECOMMENDED

DEPARTMENT OF TRANSPORTATION

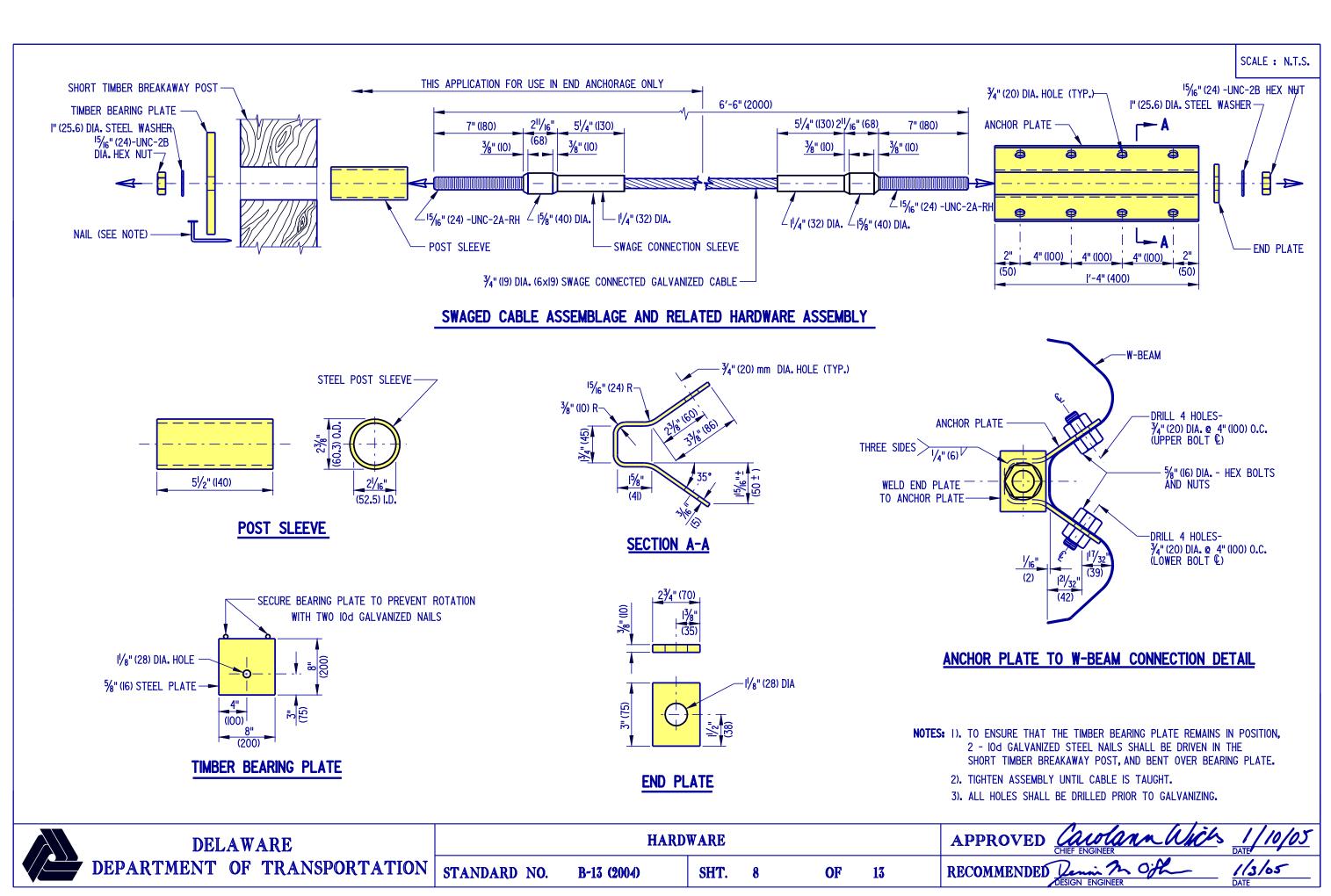
STANDARD NO.

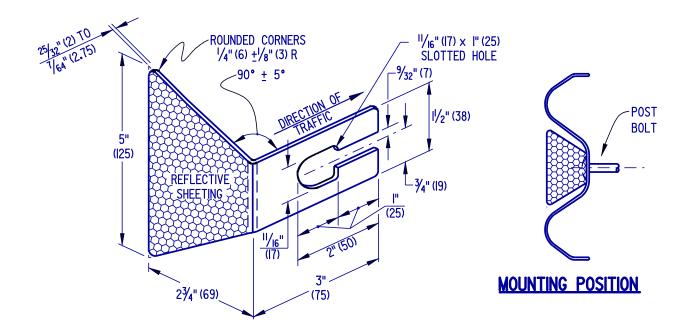
B-13 (2004)

SHT.

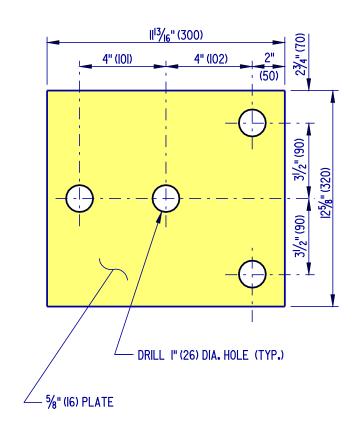
7

//3/65 DATE



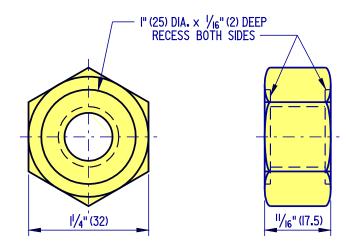


GUARDRAIL REFLECTOR

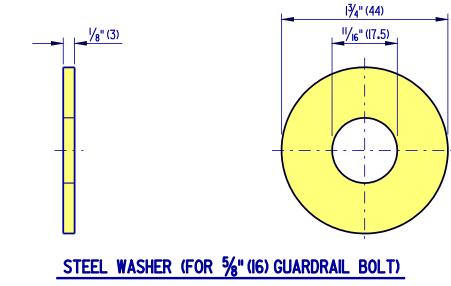


BEARING PLATE DETAIL

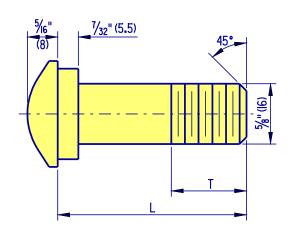
DELAWARE		HARD	WARE				APPROVED CALOLON WICH DATE
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-13 (2004)	SHT.	9	OF	13	RECOMMENDED Denis 2 Oil DATE DESIGN ENGINEER DATE

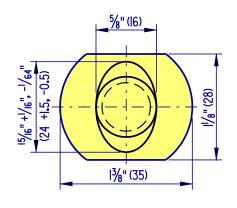






NOTE: DIMENSION FOR WASHER THICKNESS IS APPROXIMATE BASED ON METAL THICKNESS.





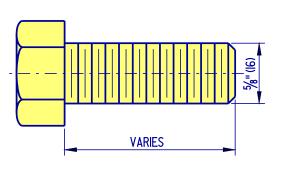
L	T (MIN.)
I ^I / ₄ " (35)	FULL THREAD LENGTH
2" (50)	FULL THREAD LENGTH
4" (100)	FULL THREAD LENGTH
10" (255)	4" (100) THREAD LENGTH
18" (460)	4" (100) THREAD LENGTH

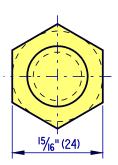
GUARDRAIL BOLT

NOTES : I. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/6" (2). 2. IF THE BOLT EXTENDS MORE THAN 1/2" (12) BEYOND THE NUT, THE BOLT SHALL BE TRIMMED BACK AS PER THE DEPARTMENT'S SPECIFICATIONS.

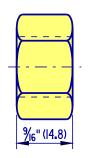
	DELAWARE	HARDWARE						APPROVED CHIEF ENGINEER DATE DATE	55
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-13 (2004)	SHT.	10	OF	13	RECOMMENDED Denis & Off 1/3/65	

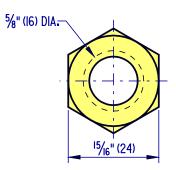




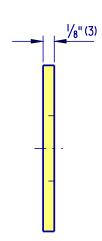


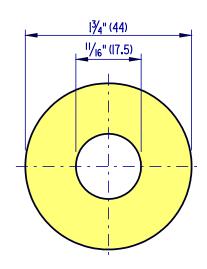
5/8" (16) HEX BOLT





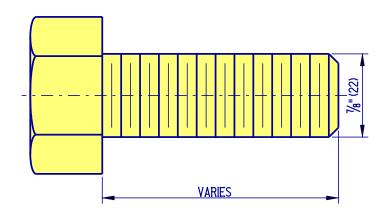
5/8" (16) HEX NUT

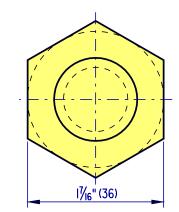




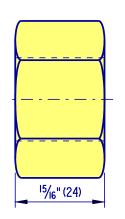
%" (16) STEEL WASHER

NOTE: DIMENSION FOR WASHER THICKNESS IS APPROXIMATE BASE METAL THICKNESS.

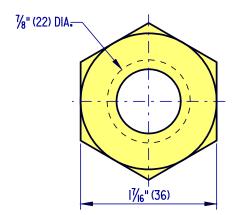




HIGH-STRENGTH STRUCTURAL HEX BOLT



OF

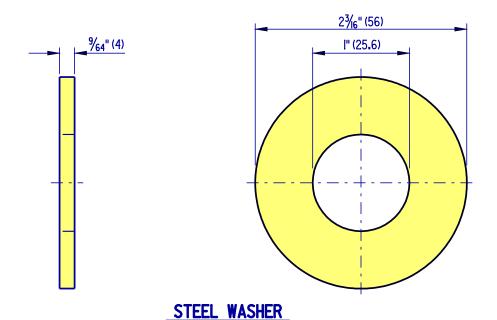


HIGH-STRENGTH STRUCTURAL HEX NUT

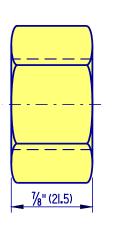
HARDWARE

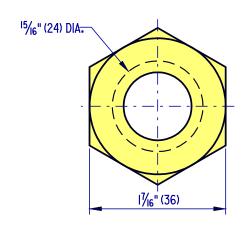
SHT.

11



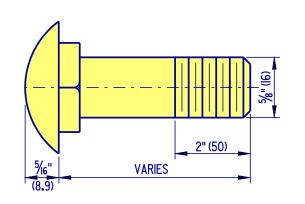
NOTES: I. FOR USE WITH SWAGED CABLE ASSEMBLAGE.
2. DIMENSION FOR WASHER THICKNESS IS
APPROXIMATE BASE METAL THICKNESS.

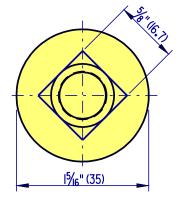




15/16" (24) HEX NUT

NOTE: FOR USE WITH SWAGED CABLE ASSEMBLAGE.

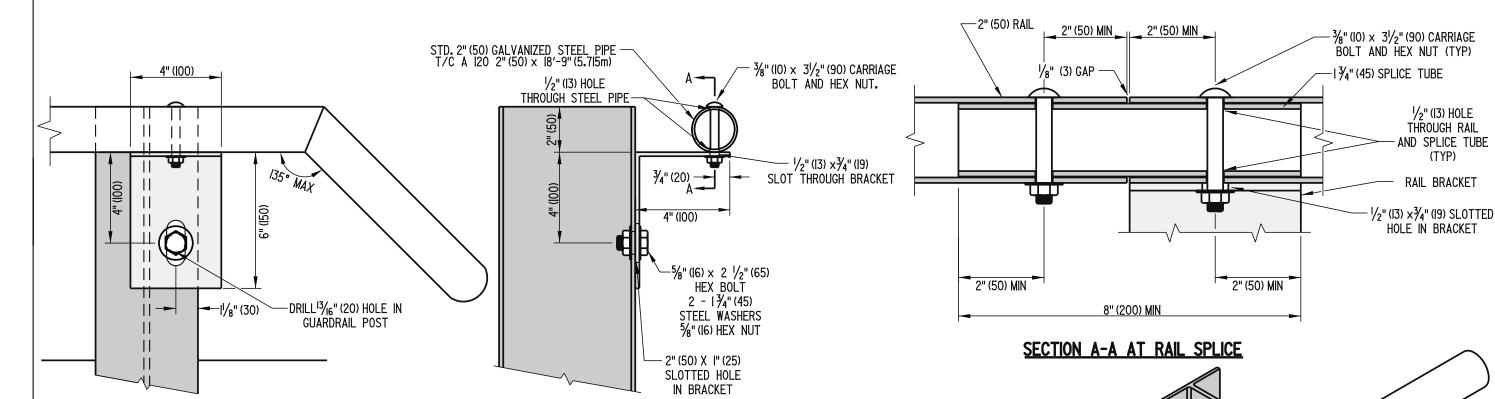




5/8" (16) CARRIAGE BOLT

	LAWARE
DEPARTMENT	OF TRANSPORTATION





SIDE VIEW

STANDARD NO.

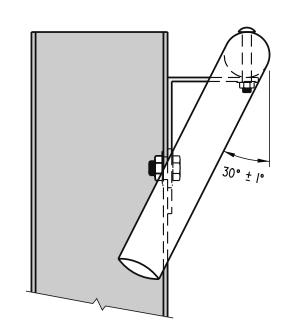
NOTES:

I). RAIL SHALL BE MOUNTED ON GUARDRAIL ADJACENT TO A BIKEWAY OR SIDEWALK.

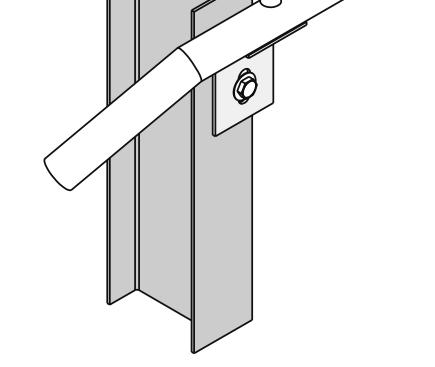
REAR VIEW WITH START & END SECTION

- 2). ALL COMPONENTS OF THE RAIL SHALL BE SHOP FABRICATED. ALL CUTTING
- AND DRILLING SHALL BE DONE IN THE SHOP.

 3). ALL EXPOSED THREADED HARDWARE SHALL BE BURRED.
- 4). GUARDRAIL POSTS UPON WHICH RAIL IS TO BE INSTALLED SHALL BE SHOP DRILLED FOR THE RAIL BRACKETS DURING FABRICATION.
- 5). ALL RAIL SPLICES WILL BE AT RAIL SUPPORT BRACKETS, THE SAME BOLT USED TO ATTACH THE RAIL TO THE BRACKET WILL BE USED TO SECURE THE SPLICE TUBE.
- 6). RAILS SHALL BE INSTALLED ONLY ON STANDARD W-BEAM SECTIONS AND AT LEAST ONE POST AWAY FROM THE PAYMENT LIMITS OF THE END TREATMENT.







ISOMETRIC VIEW WITH START & END SECTION



DELAWARE DEPARTMENT OF TRANSPORTATION GUARDRAIL MOUNTED RAIL

B-13 (2005)

SHT. 13

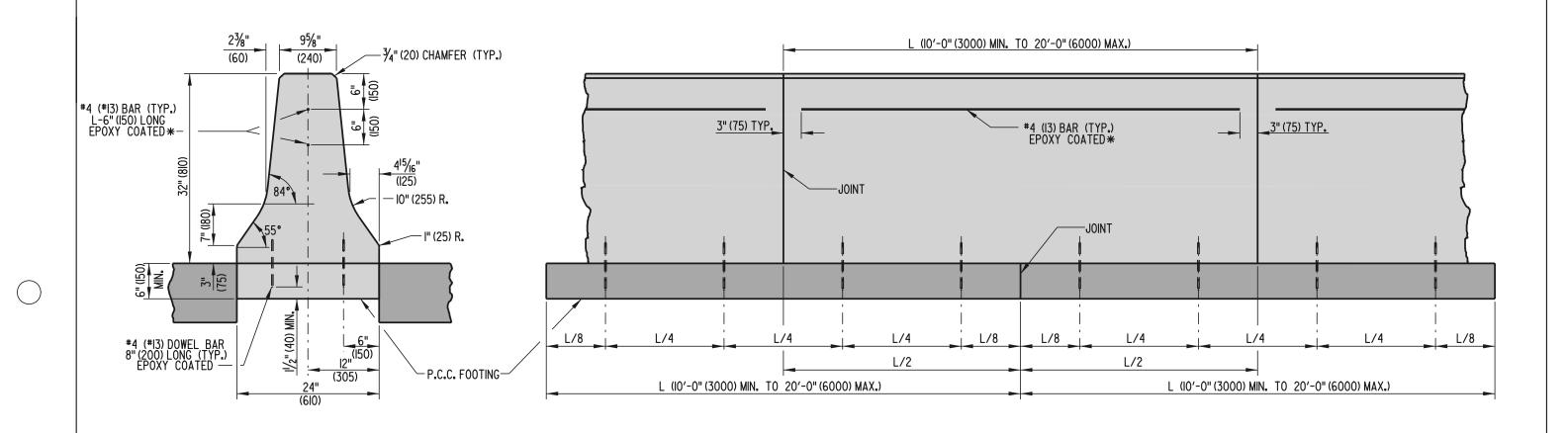
13

OF 13

RECOMMENDED Rum Modern

12/5/05 DATE 11/29/05

01/19/2006



TYPICAL CAST-IN-PLACE OR SLIP-FORM CONSTRUCTION

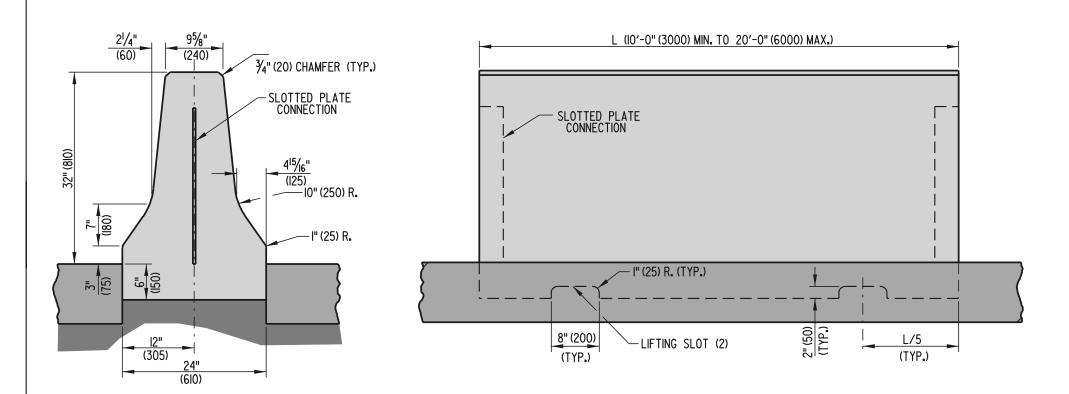
SECTION

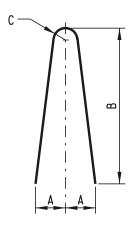
ELEVATION

* BAR SHALL BE CUT AT EVERY JOINT IF MADE CONTINUOUS FOR SLIP-FORM CONSTRUCTION

DELAWARE	CON	CRETE SAFETY B	ARRIER	(F SHAPE)			APPROVED S	gengineer Huhm	h 6/18/01
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	B-14 (2001)	SHT.	1	OF	3	RECOMMENDED DE	Welet Ofth	DATE /IS/by



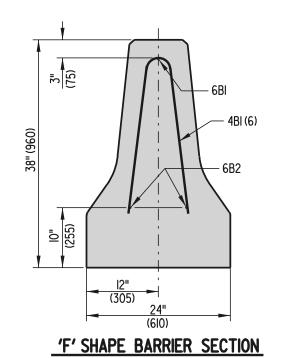


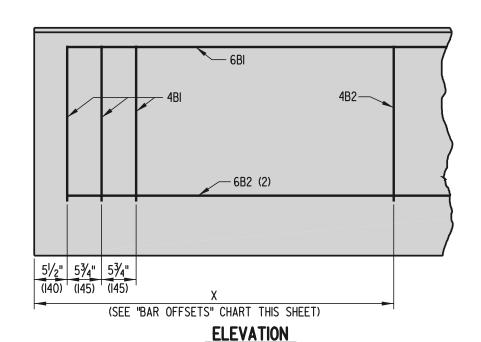


TYPE 'I' BAR

BAR OFFSETS								
NOMINAL LENGTH OF BARRIER UNIT	"X"	NO. REQ'D FOR EACH BARRIER UNIT						
20' (6000)	6' - 11" (2100)	2						
18' (5500)	6' - 5" (1950)	2						
16' (5000)	5′ - 11" (1800)	2						
14' (4500)	7' - 0" (2250)							
12' (4000)	6' - 0" (2000)							
10' (3000)	5' - 0" (1500)							

TYPICAL PRE-CAST CONSTRUCTON



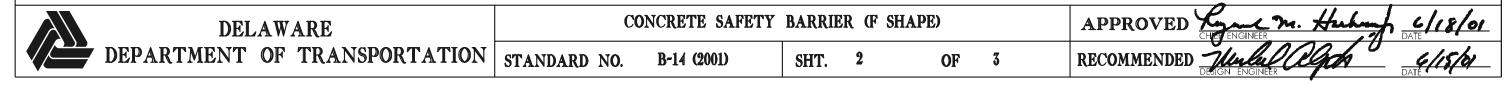


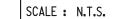
TYPICAL PRE-CAST REINFORCEMENT DETAILS

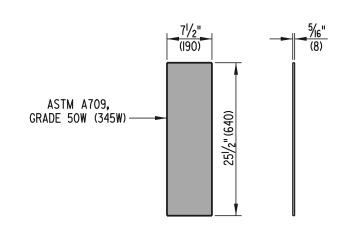
	BAR LIST							
MARK	SIZE	NUMBER IN EACH SECTION	LENGTH	TYPE	A	В	С	
4BI	4 (13)	6	4′-7" (1400)	- 1	5" (125)	26" (660)	2" (50)	
4B2	4 (13)	**	4′-7" (1400)	1	5" (125)	26" (660)	2" (50)	
6BI	6 (19)	1	*	STR.				
6B2	6 (19)	2	*	STR.				

- * THE LENGTH OF BARS 6BI AND 6B2 SHALL BE II"(280) SHORTER IN LENGTH THAN THE NOMINAL SIZE OF THE BARRIER IN WHICH IT IS USED.
- ** SEE "BAR OFFSETS" CHART ON THIS SHEET FOR MORE INFORMATION.

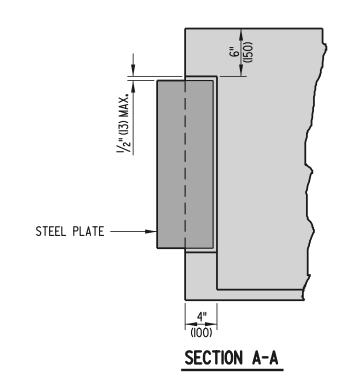
NOTES: I). CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE 1/2" (40) MIN..

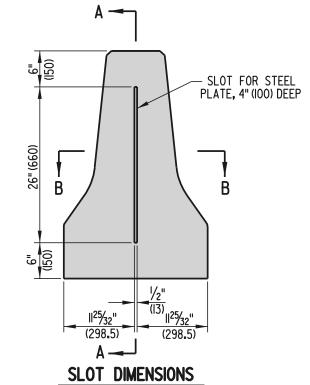




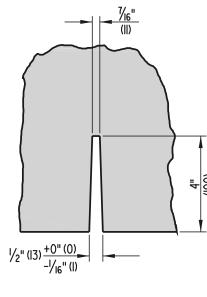


STEEL CONNECTOR PLATE





CONCRETE SAFETY BARRIER, PRECAST CONSTRUCTION 'F' SHAPE BARRIER SECTION

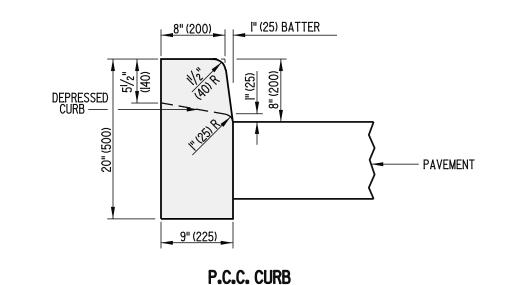


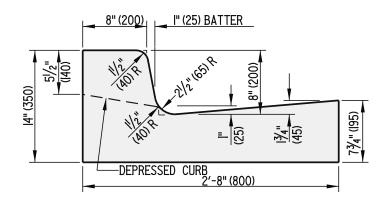
SECTION B-B

	DELAWARE								
	DEPARTMENT	OF	TRANSPORTATION						

SLOTTED PLATE			NNECTI	ON	DETAILS	
STANDARD NO.	B-14 (2001)		SHT.	3	OF	3



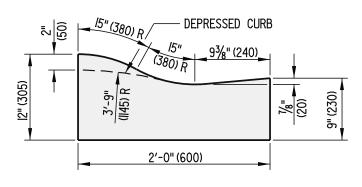


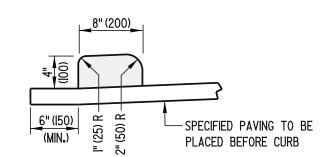


-DEPRESSED CURB I" (25) BATTER 8" (200) 10" (250) 73/4" (195) 1³/₄" (45) 2'-8" (800)

INTEGRAL P.C.C. CURB AND GUTTER

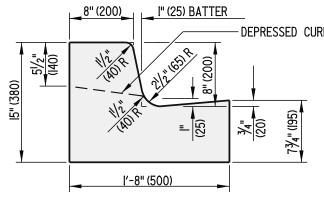
INTEGRAL P.C.C. CURB AND GUTTER





INTEGRAL P.C.C. CURB AND GUTTER TYPE 2

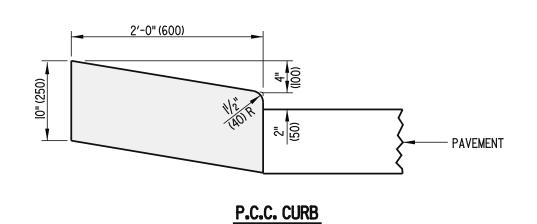
HOT-MIX, HOT LAID BITUMINOUS CONCRETE CURB



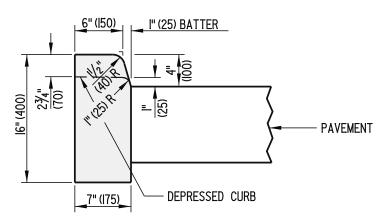
NOTES: I. WHEN P.C.C. CURB OR INTEGRAL P.C.C. CURB AND GUTTER IS PLACED ADJACENT TO PORTLAND CEMENT CONCRETE PAVEMENT, CONSTRUCT THE JOINT AS PER THE LONGITUDINAL JOINT SEALANT DETAIL ON STANDARD P-2, SHEET 3 OF 5. USE APPROVED JOINT FILLER TO SEAL. WORK TO BE PAID UNDER RESPECTIVE CURB AND GUTTER ITEM.

2. DEPRESS CURB AT ENTRANCES AS DETAILED ON THIS SHEET

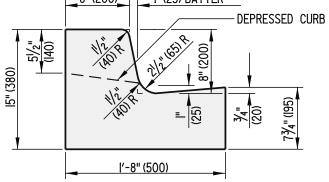
3. DEPRESS CURB FLUSH WITH PAVEMENT AT CURB RAMPS. MAXIMUM SLOPE OF CURB AT CURB RAMPS IS 20:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL, SEE STANDARD NO C-2, IOF 4.



TYPE 2







INTEGRAL P.C.C. CURB AND GUTTER TYPE 3

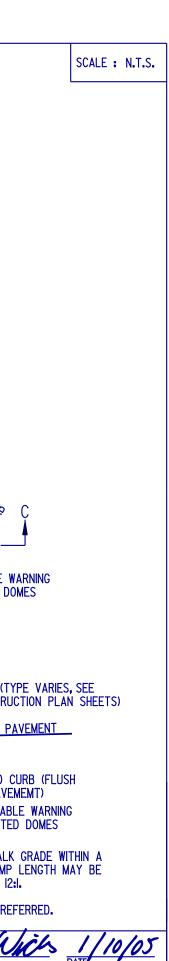


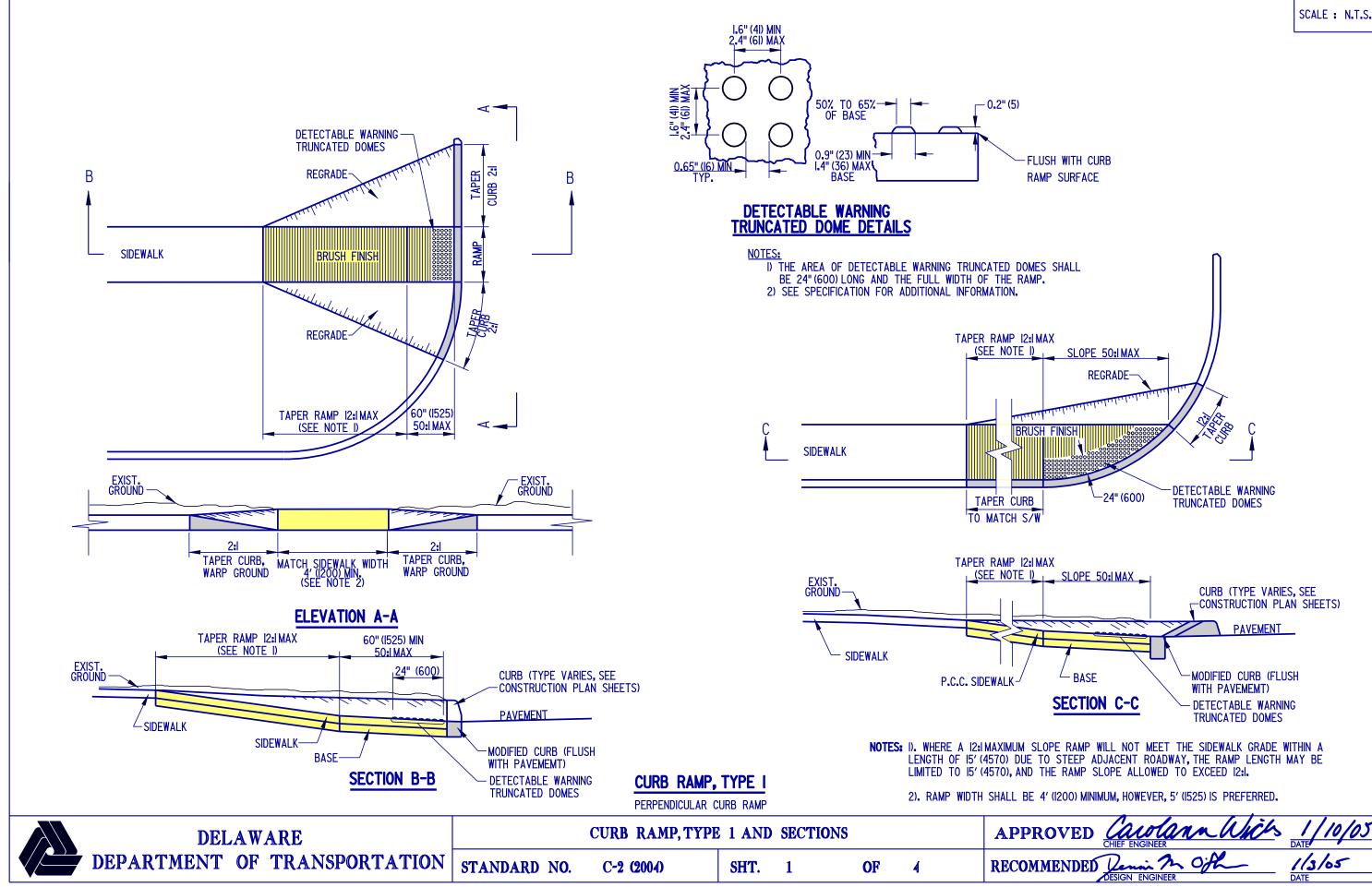
P.C.C. CURB, P.C.C. CURB & GUTTER, AND HOT-MIX CURB

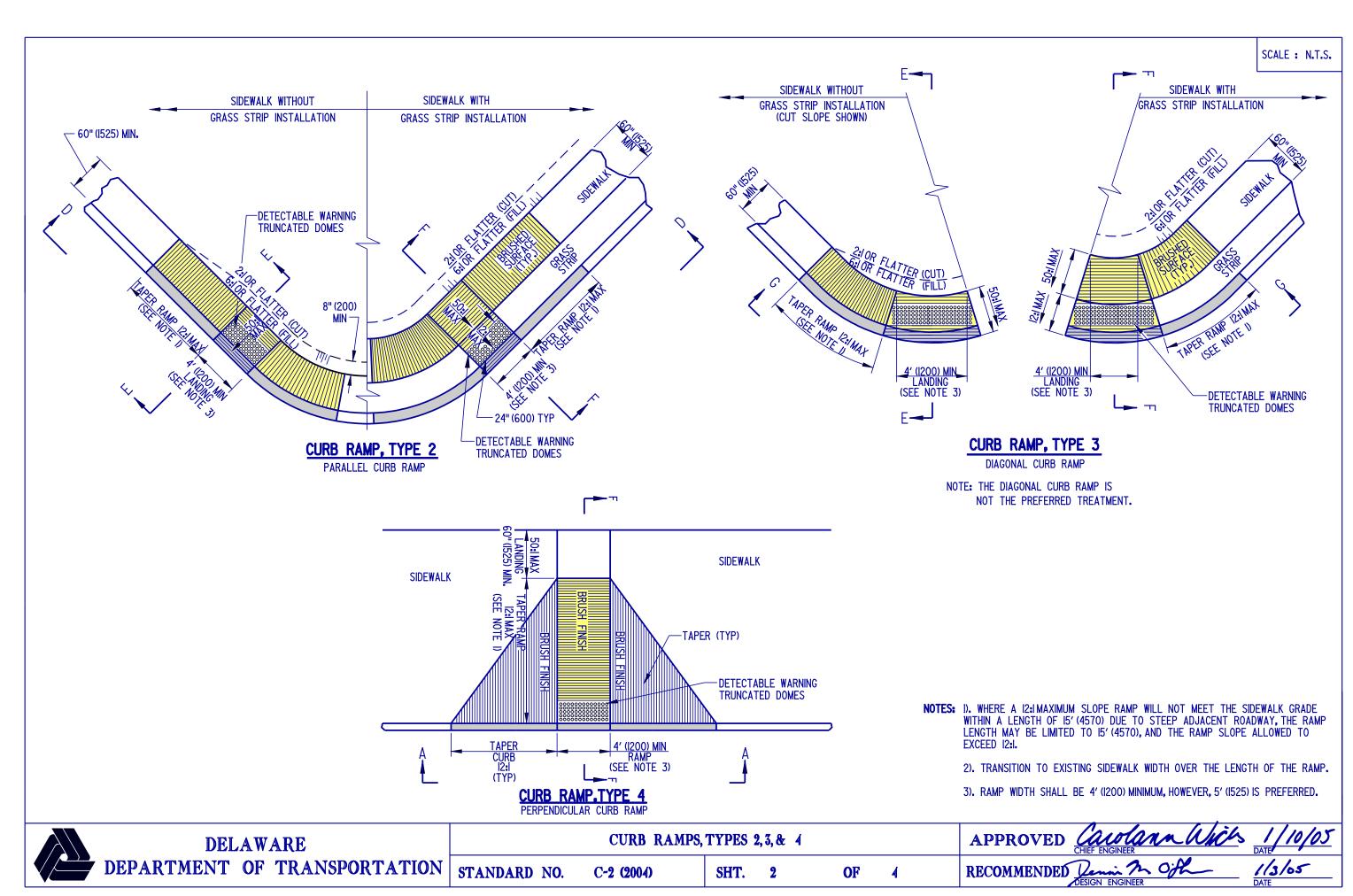
STANDARD NO. C-1 (2005)

SHT. 1

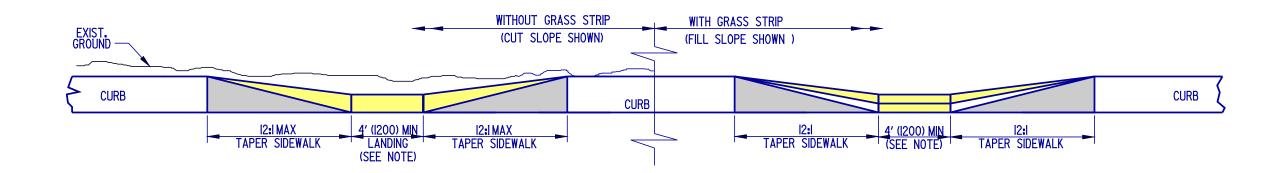
OF



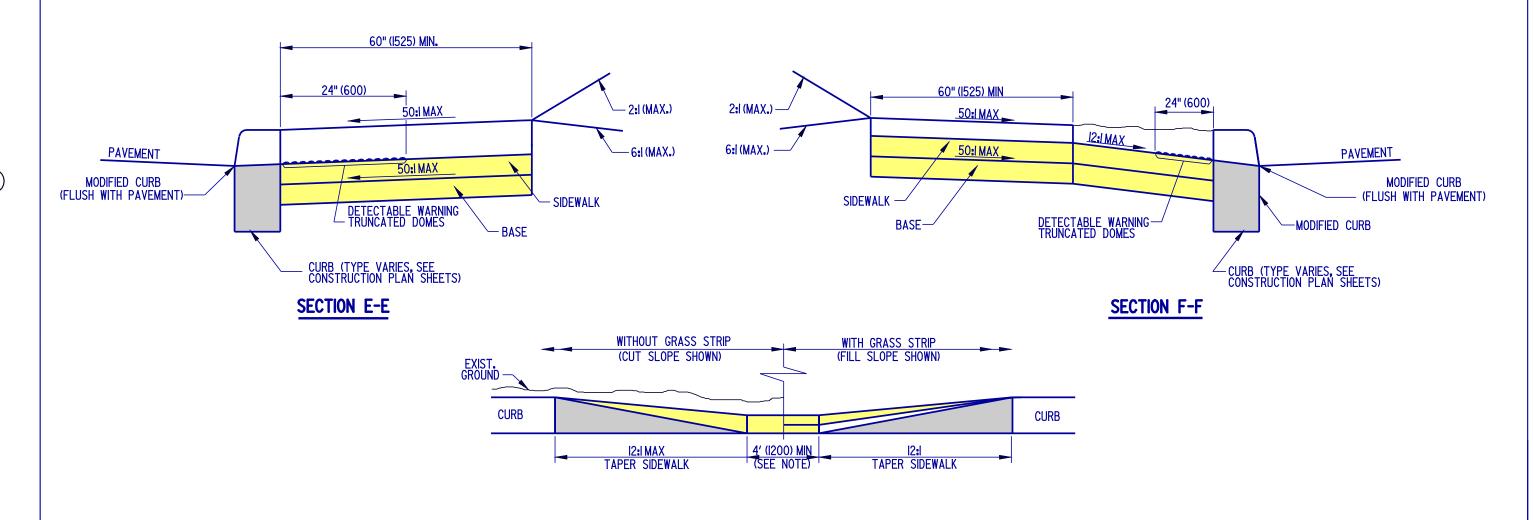








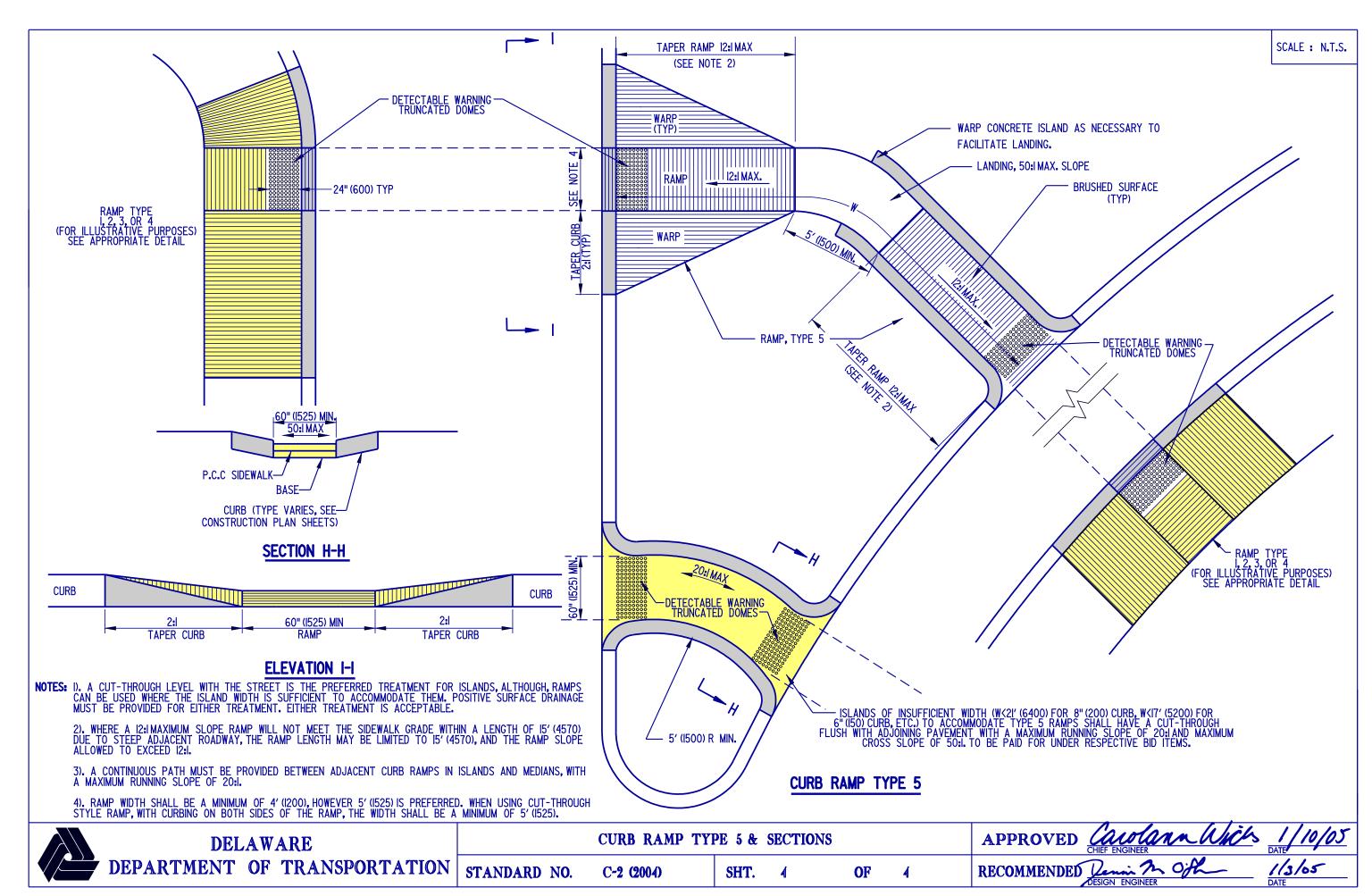
ELEVATION D-D



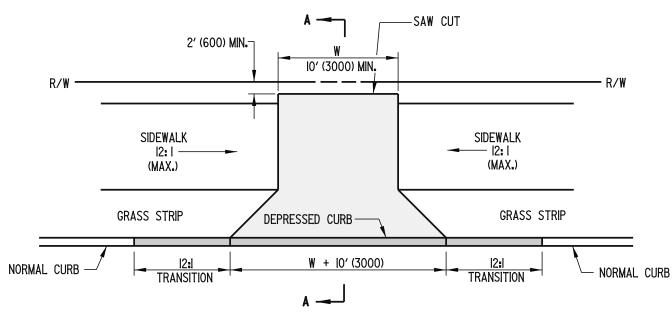
ELEVATION G-G

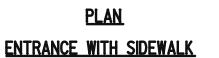
NOTE: CURB RAMP WIDTH SHALL BE 4' (1200) MINIMUM, HOWEVER, 5' (1525) IS PREFERRED.

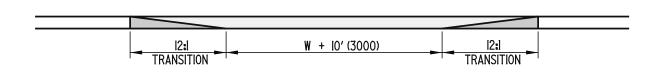
DELAWARE	cu	TRB RAMP SECTION	NS FOR	APPROVED CHIEF ENGINEER	DATE DATE			
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	C-2 (2004)	SHT.	3	OF	4	RECOMMENDED Denis & Officer	//3/65 DATE



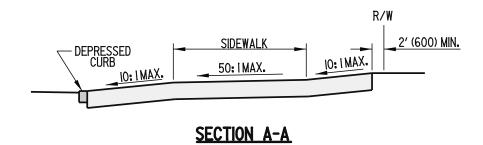


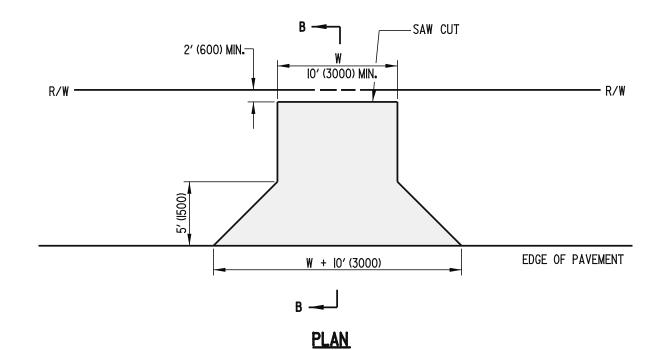




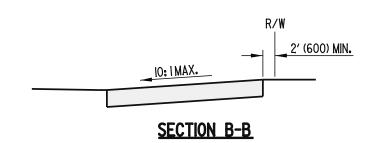


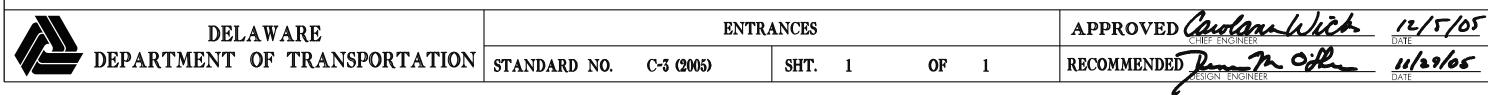
ELEVATION

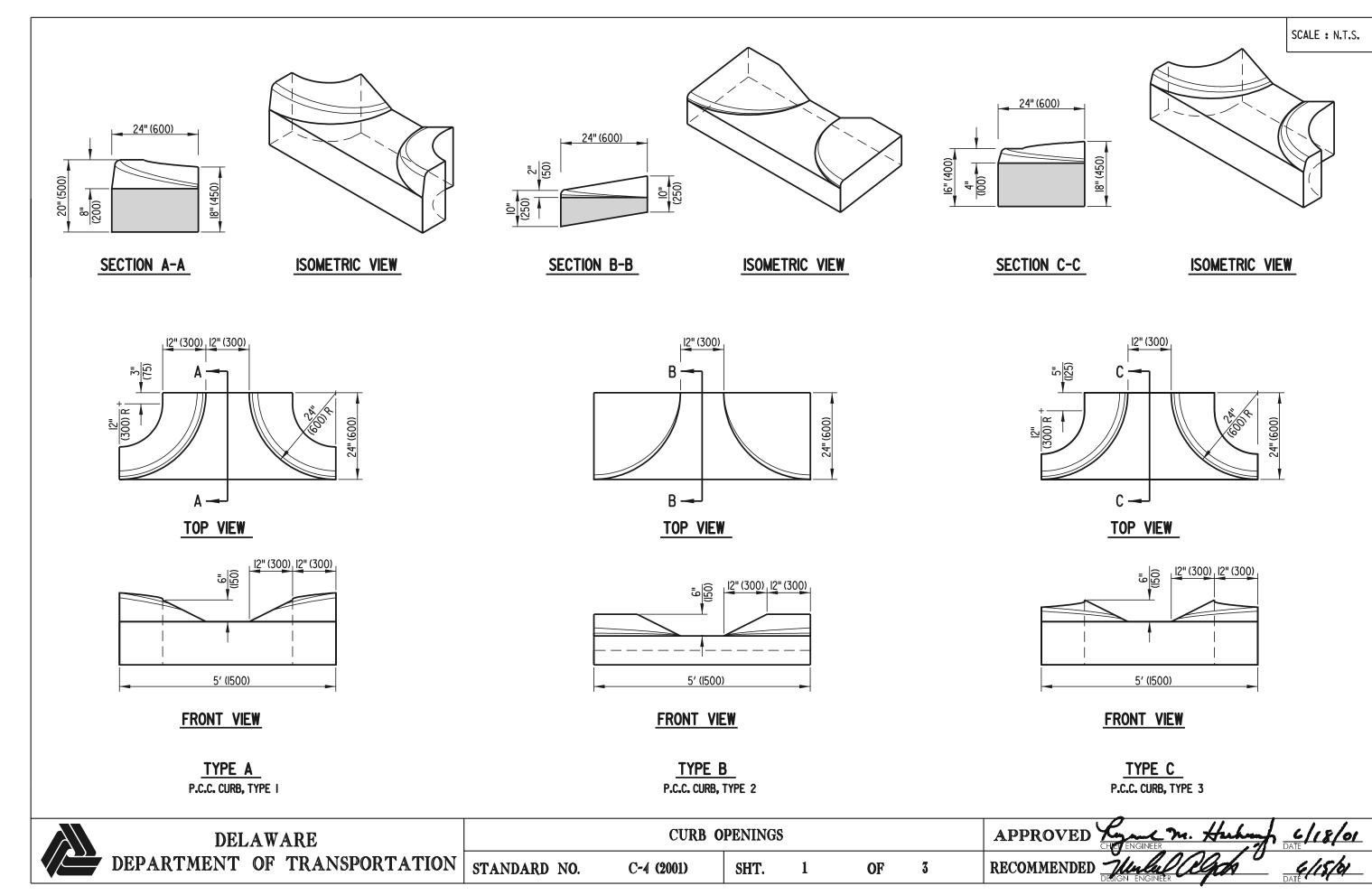


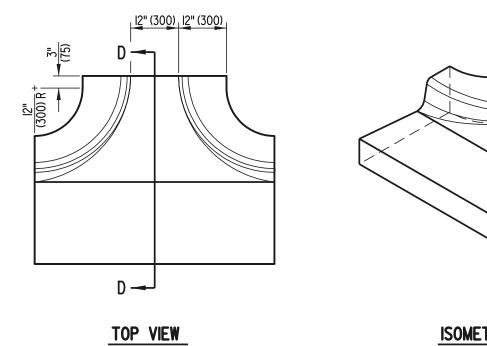


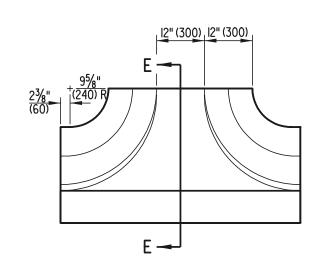
ENTRANCE WITHOUT SIDEWALK

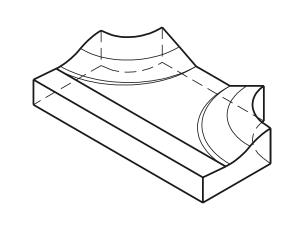








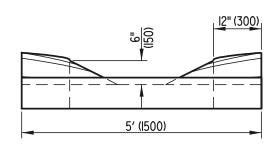


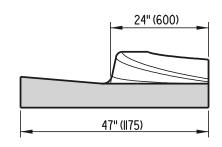


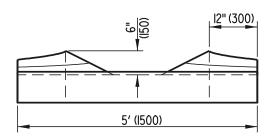
ISOMETRIC VIEW

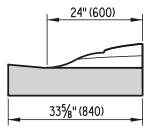
TOP VIEW

ISOMETRIC VIEW









FRONT VIEW

SECTION D-D

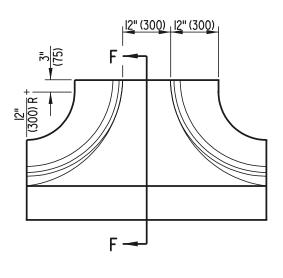
FRONT VIEW

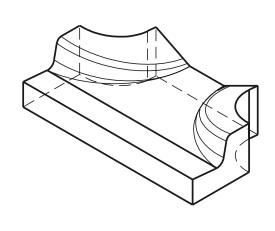
SECTION E-E

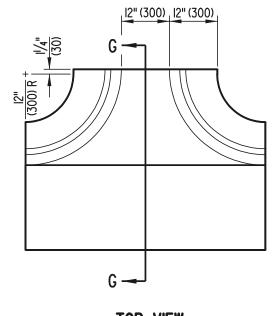
TYPE D INTEGRAL P.C.C. CURB AND GUTTER, TYPE I

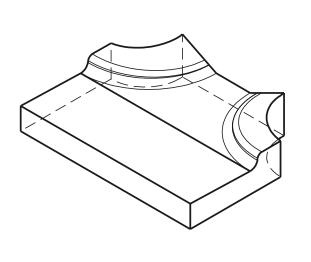
TYPE E INTEGRAL P.C.C. CURB AND GUTTER, TYPE 2









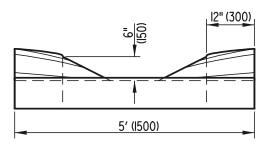


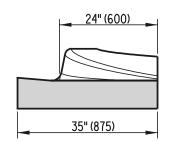
TOP VIEW

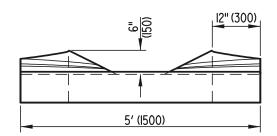
ISOMETRIC VIEW

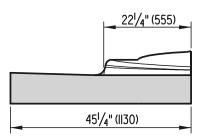
TOP VIEW

ISOMETRIC VIEW









FRONT VIEW

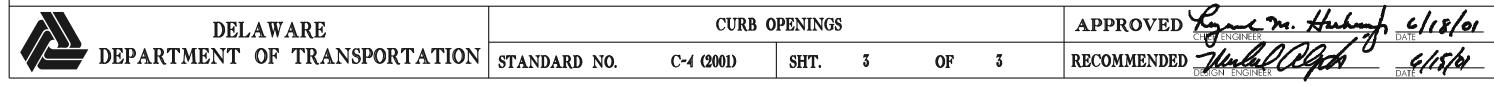
SECTION F-F

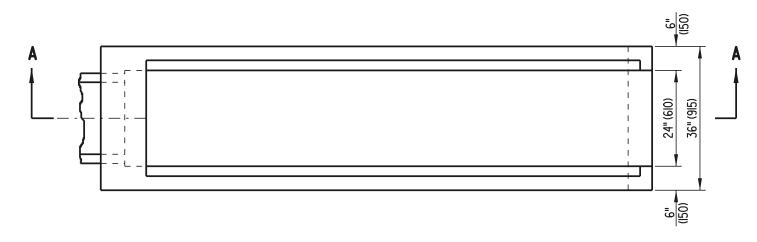
FRONT VIEW

SECTION G-G

TYPE F
INTEGRAL P.C.C. CURB AND GUTTER, TYPE 3

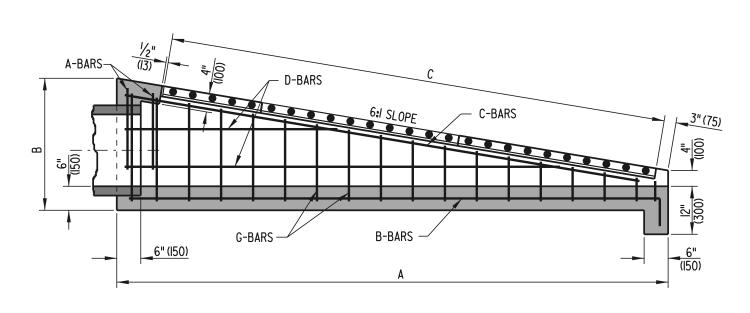
TYPE G
INTEGRAL P.C.C. CURB AND GUTTER, TYPE 4





PLAN VIEW
SHOWN WITHOUT GRATE

NOTE: 6: SAFETY END STRUCTURE TO BE PRECAST



D-BARS
D-BARS
D-BARS
D-BARS

SECTION A-A

FRONT VIEW

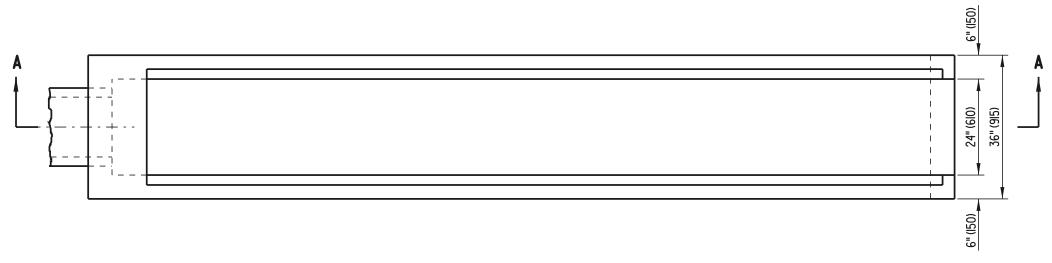
DELAWARE		6:1 SAFETY	END STI	RUCTURE			APPROVED Line m. Huhm 6/18/01
DEPARTMENT OF TRANSPORTATION	STANDARD NO.	D-1 (2001)	SHT.	1	OF	2	RECOMMENDED WILLIAM GATE DATE

DIMENSIONS									
PIPE SIZE	A	В	С						
15" (375)	9'-6" (2895)	2'-5" (735)	8'-4" (2540)						
18" (450)	II'-6" (3505)	2'-9" (840)	10'-5" (3175)						
21" (525) OR 24" (600)	14'-4" (4370)	3'-25/8" (980)	12'-6" (3810)						

	APPROXIMATE QUANTITIES												
PIPE SIZE	CONCRET	E FT³(m³)	REINF. STEEL	NO. OF	LENGTH TO BE	WEIGHT OF FULL SIZE GRATE	WEIGHT OF CUT GRATE						
FIFE SIZE	CONC. PIPE	C.M. PIPE	LBS. (kg)	GRATES	CUT FROM I GRATE	LBS. (kg)	LBS. (kg)						
15" (375)	25 (0.708)	25.43 (0.720)	121.12 (54.94)	2		270.92 (122.89)							
18" (450)	31.5 (0.892)	32.07 (0.908)	156.7 (71.08)	3	2'- " (635)	270.92 (122.89)	135.47 (61.45)						
21" (525) OR 24" (600)	40.75 (1.154)	39.87 (1.129)	194.0 (88.00)	3		270.92 (122.89)							

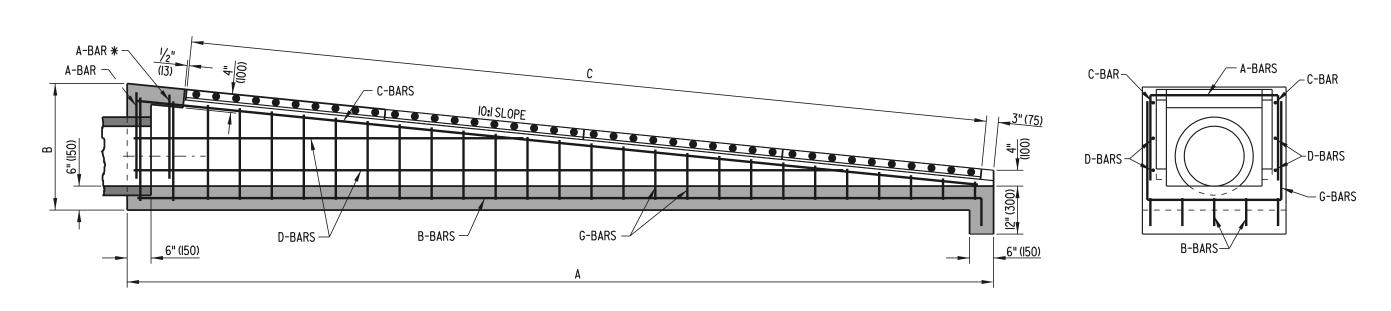
	BENDING DIAGF	RAM
PIPE SIZE	x	x
15" (375)	9'-2" (2795)	
18" (450)	II'-2" (3405)	7" (175)
2I" (525) OR 24" (610)	14'-0" (4265)	B-BARS
PIPE SIZE	Y	G-BARS
15" (375)	VARIES 25" (635) TO 4" (100)	
18" (450)	VARIES 29" (735) TO 4" (100)	
21" (525) OR 24" (610)	VARIES 34" (865) TO 4" (100)	32" (8 5)
	32" (815)	
a-Bars		20" (510)

	SCHEDULE OF REINFORCING STEEL																			
PIPE SIZE	A-BARS				B-BARS				C-BARS D-BARS			-BARS			G	-BARS				
FIFE SIZE	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH
15" (375)	#4 (#13)	2	8" (200)	72" (1830)	# 4 (# 13)	5	8" (200)	9′-9" (2970)	# 4 (# 13)	2	-	9'-3" (2820)	#4 (#I3)	4	8" (200)	VARIES 50" (1270) TO 100" (2540)	#4 (#I3)	15	8" (200)	VARIES 40" (1015) TO 82" (2085)
18" (450)	#4 (#13)	2	8" (200)	72" (1830)	# 4 (# 3)	5	8" (200)	II'-9" (3580)	# 4 (# 3)	2	-	II'-5" (3480)	#4 (#I3)	6	8" (200)	VARIES 43½" (1105) TO 130½" (3315)	#4 (#I3)	18	8" (200)	VARIES 40" (1015) TO 90" (2285)
2I" (525) OR 24" (600)	#4 (# 3)	2	8" (200)	72" (1830)	#4 (#I3)	5	8" (200)	14'-7" (4445)	#4 (#I3)	2	-	14'-3" (4345)	#4 (#I3)	6	8" (200)	VARIES 51" (1295) TO 153" (3885)	#4 (#I3)	22	8" (200)	VARIES 40" (1015) TO 100" (2540)



PLAN VIEW
SHOWN WITHOUT GRATE

NOTE: 10:1 SAFETY END STRUCTURE TO BE PRECAST



SECTION A-A

* REQUIRED ONLY FOR PIPE SIZE OF 21" (525) OR 24" (600)

DELAWARE
DEPARTMENT OF TRANSPORTATION STANDARD NO. D-2 (2001)
STANDARD NO. D-2 (2001)
SHT. 1 OF 2
RECOMMENDED MARGINER ENGINEER
DEPARTMENT OF TRANSPORTATION STANDARD NO. D-2 (2001)

FRONT VIEW

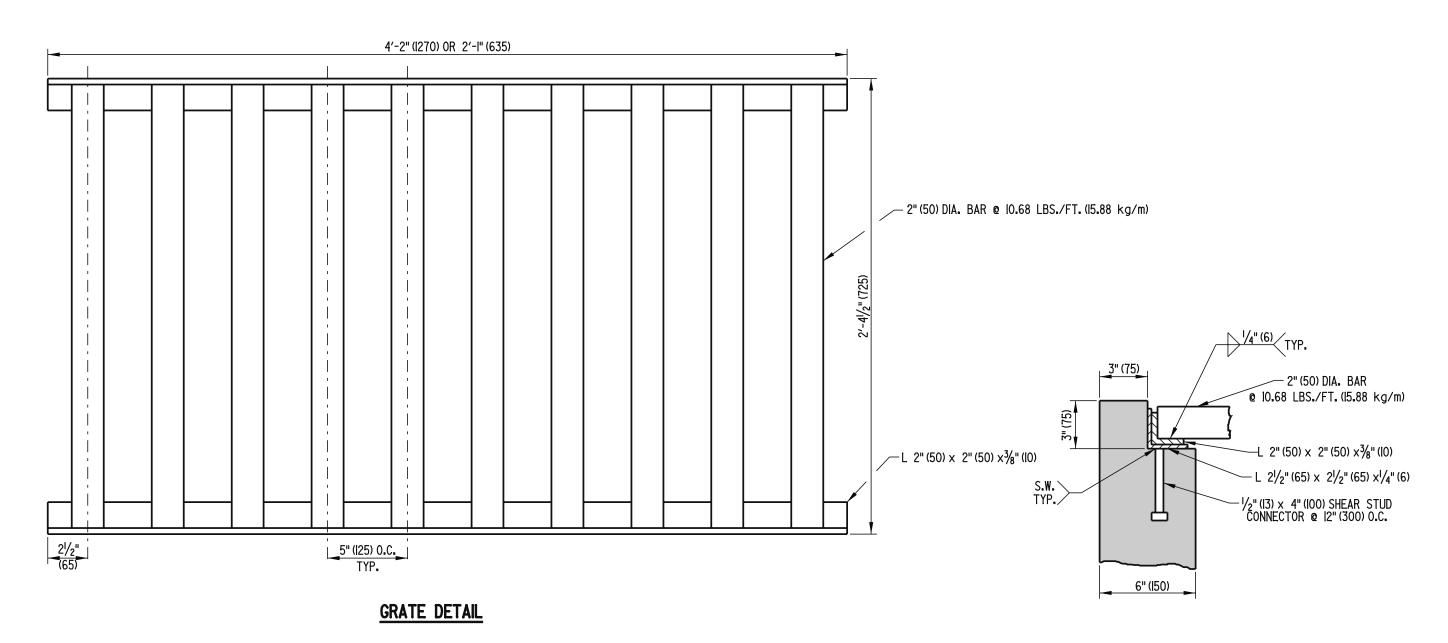
DIMENSIONS									
PIPE SIZE	A	В	С						
15" (375)	15'-4" (4675)	2'-4¾" (720)	14'-7" (4445)						
18" (450)	19'-6" (5945)	2'-9¾" (850)	18'-9" (5715)						
21" (525) OR 24" (600)	24'-0" (7315)	3'-2 ³ / ₁₆ " (985)	22'- " (6985)						

	APPROXIMATE QUANTITIES											
PIPE SIZE	CONCRET	E FT³(m³)	REINF. STEEL	NO. OF	LENGTH TO BE	WEIGHT OF FULL SIZE GRATE	WEIGHT OF CUT GRATE					
FIFE SIZE	CONC. PIPE	C.M. PIPE	LBS. (kg)	GRATES	CUT FROM I GRATE	LBS. (kg)	LBS. (kg)					
15" (375)	41.35 (1.171)	41.78 (1.183)	175.0 (79.38)	4	2'-1" (635)	270.92 (122.89)	135.47 (61.45)					
18" (450)	50. (.4 9)	50.68 (1.435)	227.0 (102.98)	5	2'-1" (635)	270.92 (122.89)	135.47 (61.45)					
21" (525) OR 24" (600)	69.43 (1.966)	70.31 (1.991)	310.4 (140.79)	6	2'- " (635)	270.92 (122.89)	135.47 (61.45)					

PIPE SIZE	X	X
15" (375)	15′-0" (4570)	20
18" (450)	19'-2" (5840)	7" ((75)
2I" (525) OR 24" (600)	23′-8" (72 5)	B-BARS
PIPE SIZE	Y	G-BARS
15" (375)	VARIES 21/2" (545) TO 4" (100)	
18" (450)	VARIES 267/6" (670) TO 4" (100)	700 (015)
2I" (525) OR 24" (600)	VARIES 31¾4" (805) TO 4" (100)	32" (815)
	32" (8 5)	
A-BARS		20" (510)

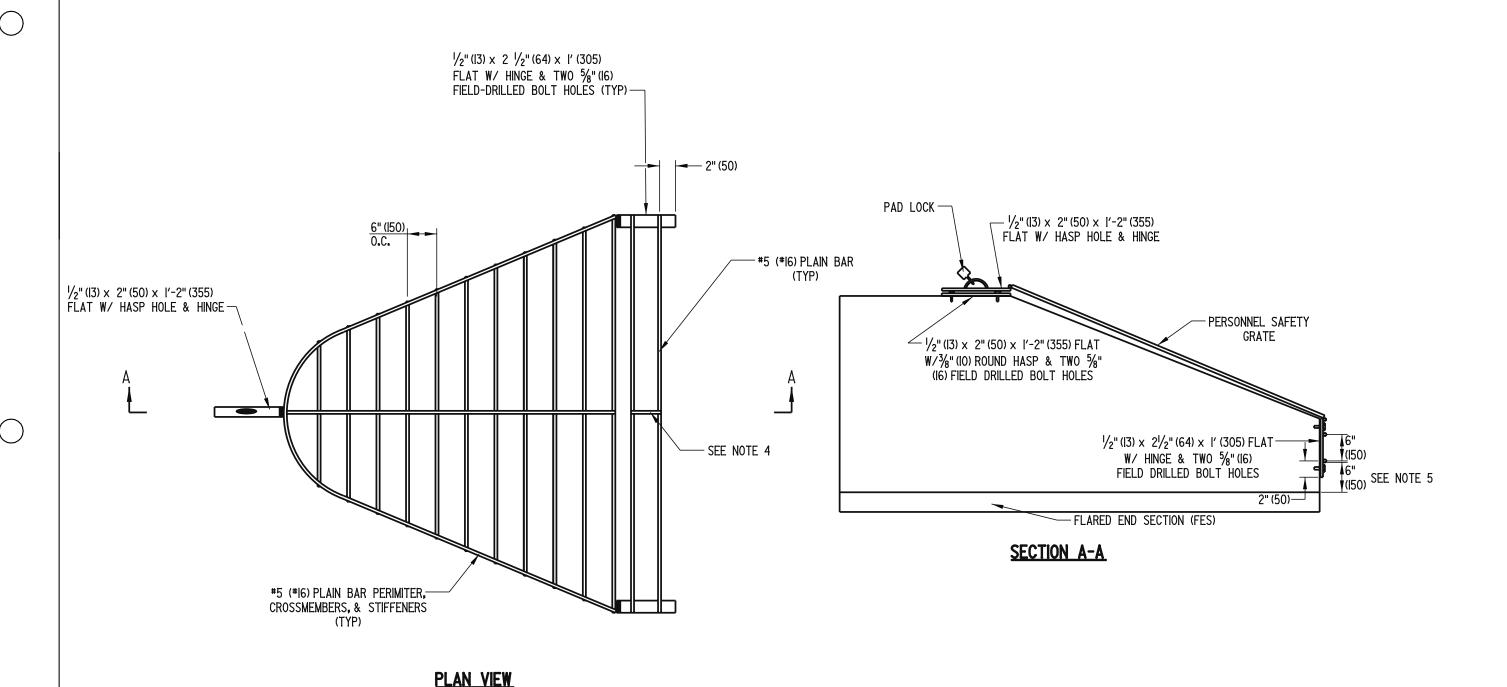
	SCHEDULE OF REINFORCING STEEL																			
PIPE SIZE		A-	BARS			B-BARS C-BARS			D-BARS			G-BARS								
FIFE SIZE	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH	SIZE	NO. S	PA.	LENGTH	SIZE	NO.	SPA.	LENGTH	SIZE	NO.	SPA.	LENGTH
15" (375)	#4 (#I3)	1	-	72" (1830)	# 4 (# 3)	5	8" (200)	15′-7" (4750)	# 4 (# 13)	2	-	5′- / ₆ " (4600)	#4 (# 13)	4	8" (200)	VARIES 72 ¹³ / ₁₆ " (1850) TO 1455/ ₈ " (3700)	#4 (#13)	24	8" (200)	VARIES 40" (1015) TO 75 ¹ / ₁₆ " (1920)
18" (450)	#4 (#13)	ı	-	72" (1830)	# 4 (# 13)	5	8" (200)	19′-9" (6020)	# 4 (# 13)	2	-	19'-3 <mark>%</mark> " (5875)	#4 (#13)			VARIES 895/8" (2275) TO 1793/6" (4550)				
2I" (525) OR 24" (600)	#4 (#I3)	2	-	72" (1830)	#4 (# 3)	5	8" (200)	24′-3" (7390)	# 4 (# 3)	2	-	23′-95/8" (7255)	#4 (# 13)	6	8" (200)	VARIES 80¾" (2050) TO 2421/8" (6150)	#4 (#13)	37	8" (200)	VARIES 40" (1015) TO 96%6" (2455)





FRAME & GRATE ASSEMBLY DETAIL

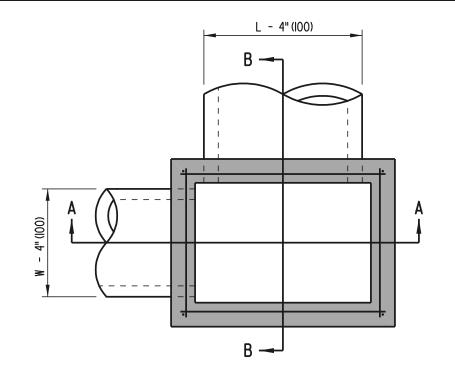
DEPARTMENT OF TRANSPORTATION STANDARD NO. D-3 (2005) SHT. 1 OF 2 RECOMMENDED Pure Ciffe Interference of the companies of the	DELAWARE	SAFETY	GRATES	APPROVED Carolan With 12/5/0
DATE DATE	DEPARTMENT OF TRANSPORTATION	STANDARD NO. D-3 (2005)	SHT. 1 OF 2	PROMMENDED Van St. Off. 11/29/05



- NOTES:

 1). PERSONNEL SAFETY GRATES (PSG) SHALL ONLY BE INSTALLED ON STORM WATER PIPE INLETS.
 - 2). THE GRATE SHALL BE MADE TO FIT THE OUTSIDE PERIMETER OF THE FLARED END SECTION (FES) +
- 3). ALL BOLT HOLES ARE TO BE DRILLED IN THE FIELD.
- 4). A STIFFENER IS TO BE INSTALLED WHERE TWO OR MORE BARS ARE USED.
- 5). BOTTOM BAR SHALL BE 6" (150) ABOVE INVERT OF FES.

DELAW	ARE		SAFETY	GRATES	3			APPROVED	Carolan-Wich CHIEF ENGINEER	/2/5/05 DATE
DEPARTMENT OF	TRANSPORTATION	STANDARD NO.	D-3 (2005)	SHT.	2	OF	2	RECOMMENDE	JESIGN ENGINEER	11/29/05 DATE



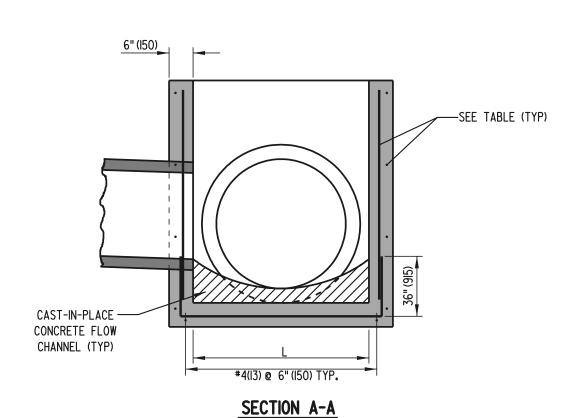
WALL RE	WALL REINFORCEMENT SCHEDULE										
INTERIOR WALL DIMENSION	AREA OF HORIZONTAL REINFORCEMENT PER FOOT (mm²)	AREA OF VERTICAL REINFORCEMENT PER FOOT (mm ²)									
	IN ² (mm ²)	IN ² (mm ²)									
LESS THAN 4' (1220)	0.132 (85)	0.132 (85)									
4' (l220) TO 4.5' (l370)	0.163 (105)	0.132 (85)									
4.5' (1370) TO 5' (1525)	0,198 (128)	0.132 (85)									
5' (1525) TO 5.5' (1675)	0.239 (154)	0.132 (85)									
5.5' (1675) TO 6' (1830)	0.284 (183)	0.132 (85)									

l	INLET BOX SCHEDULE										
٦	W	L MAX	W MAX								
34" (865)	18" (455)	34" (865)	18" (455)								
34" (865)	24" (610)	34" (865)	24" (610)								
48" (1220)	30" (760)	54" (1370)	36" (915)								
48" (1220)	48" (1220)	54" (1370)	54" (1370)								
66" (1675)	30" (760)	72" (1830)	36" (915)								
66" (1675)	48" (1220)	72" (1830)	54" (1370)								
66" (1675)	66" (1675)	72" (1830)	72" (1830)								
72" (1830)	24" (610)	72" (1830)	30" (760)								
72" (1830)	48" (1220)	72" (1830)	54" (1370)								

72" (1830) 72" (1830)

- NOTES:
 I. INLET BOXES SHALL BE PRE-CAST OR CAST-IN-PLACE. 2. OUTSIDE OF PIPE MUST FIT INTO THE INTERIOR OF THE
- 3. STEPS ARE TO BE INSTALLED IN BACK WALL AS PER SPECIFICATIONS.
- 4. NO PIPES WITH AN OUTSIDE DIAMETER LARGER THAN II" (275) WILL BE PERMITTED TO ENTER THE BACK WALL OF A DRAINAGE INLET OR MANHOLE TO ACCOMMODATE STEPS IF REQUIRED. A LARGER BOX MAY BE USED IN ORDER TO FIT THE STEPS AND A LARGER PIPE IN THE BACK WALL, IF NECESSARY.





	CLEAR (TYP.)	6" (150)
4" (100) MIN.		
ll'-4" (3455) MAX. 6" (150) MIN.	TYP. *4(3) @ 6" (50) TYP.	2 ¹ / ₂ " (65) CLEAR (TYP.)
	SECTION B-B	

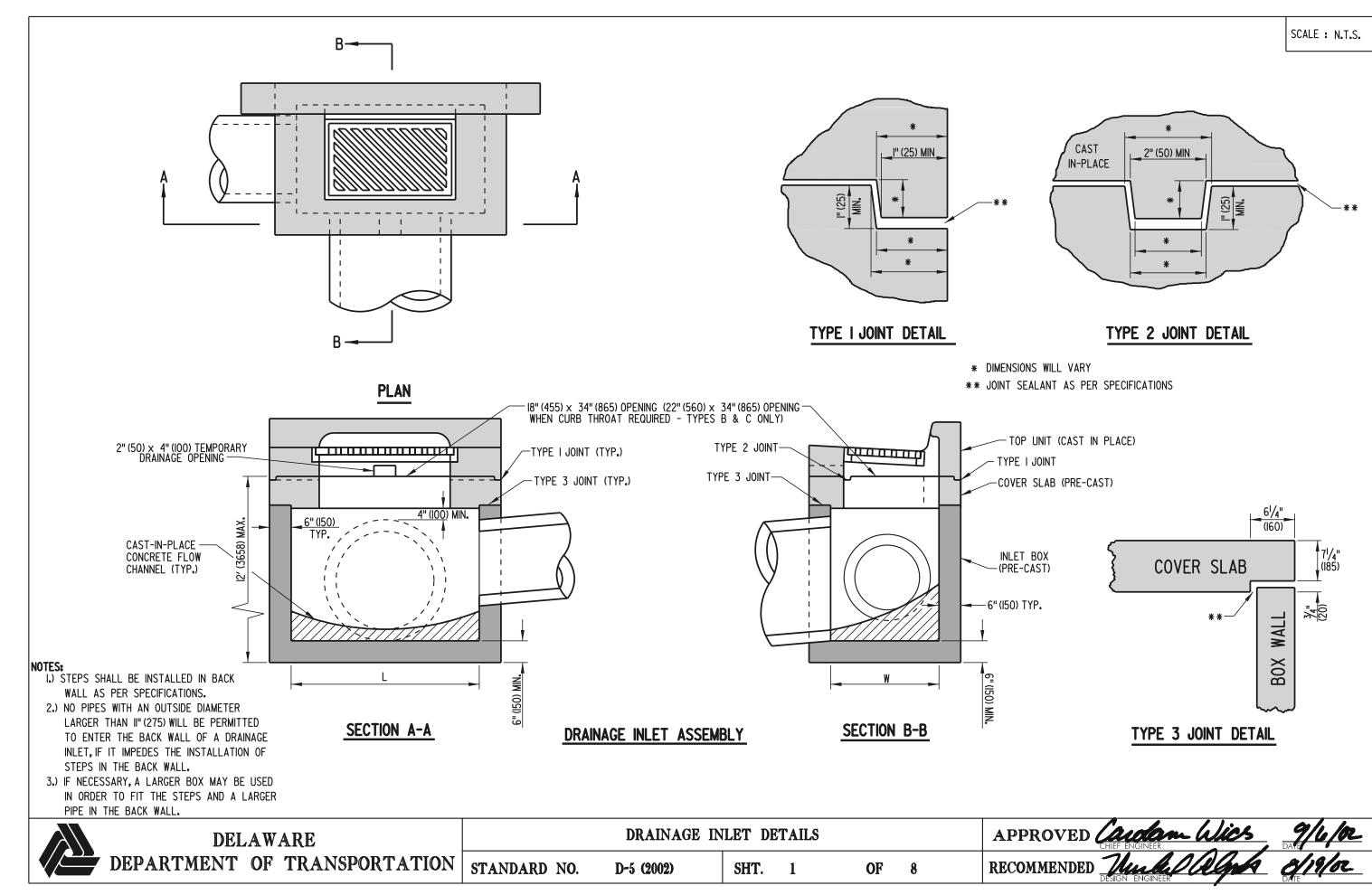
72" (1830) 72" (1830)

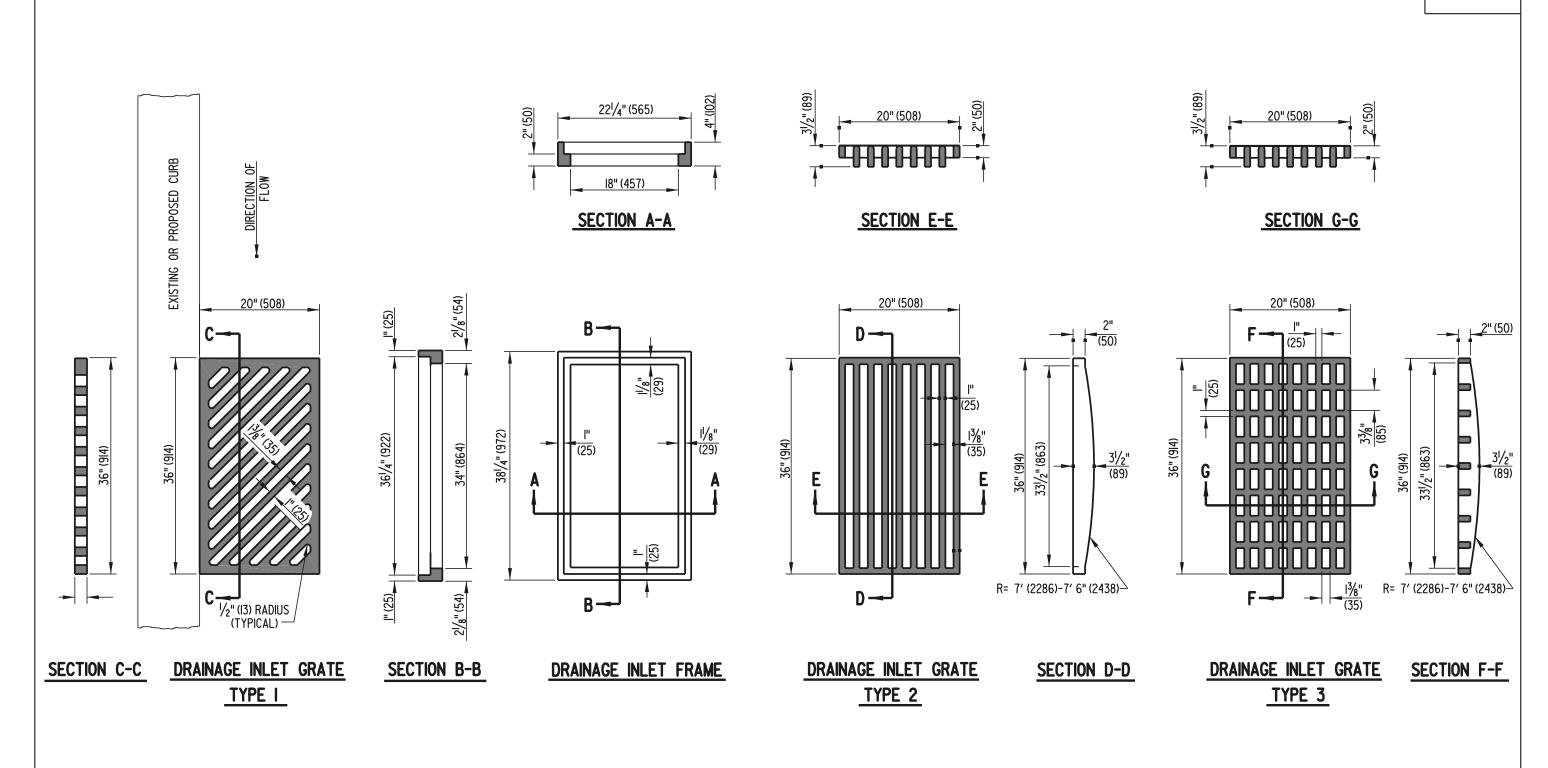
l^l/2" (40)

DEL	$\mathbf{A}\mathbf{W}$	ARE	
DEPARTMENT	OF	TRANSPORTATION	Γ ATIO N

INLET BOX DETAILS STANDARD NO. SHT. 1 **OF** 1 D-4 (2002)

APPROVED CHIEF ENGINEER WICS 9/6/R
RECOMMENDED THE PROGRESS OF THE PROGRESS OF

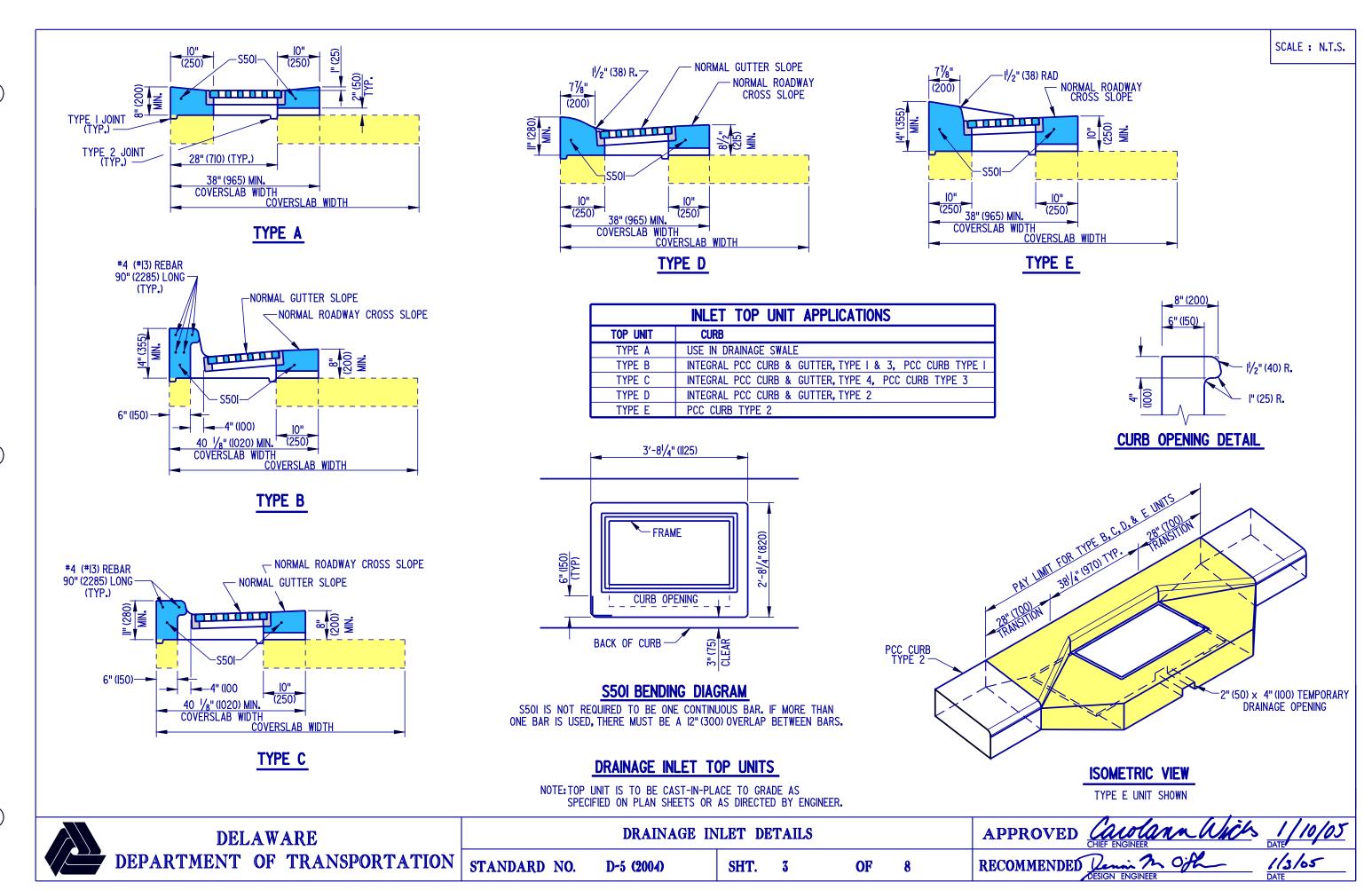


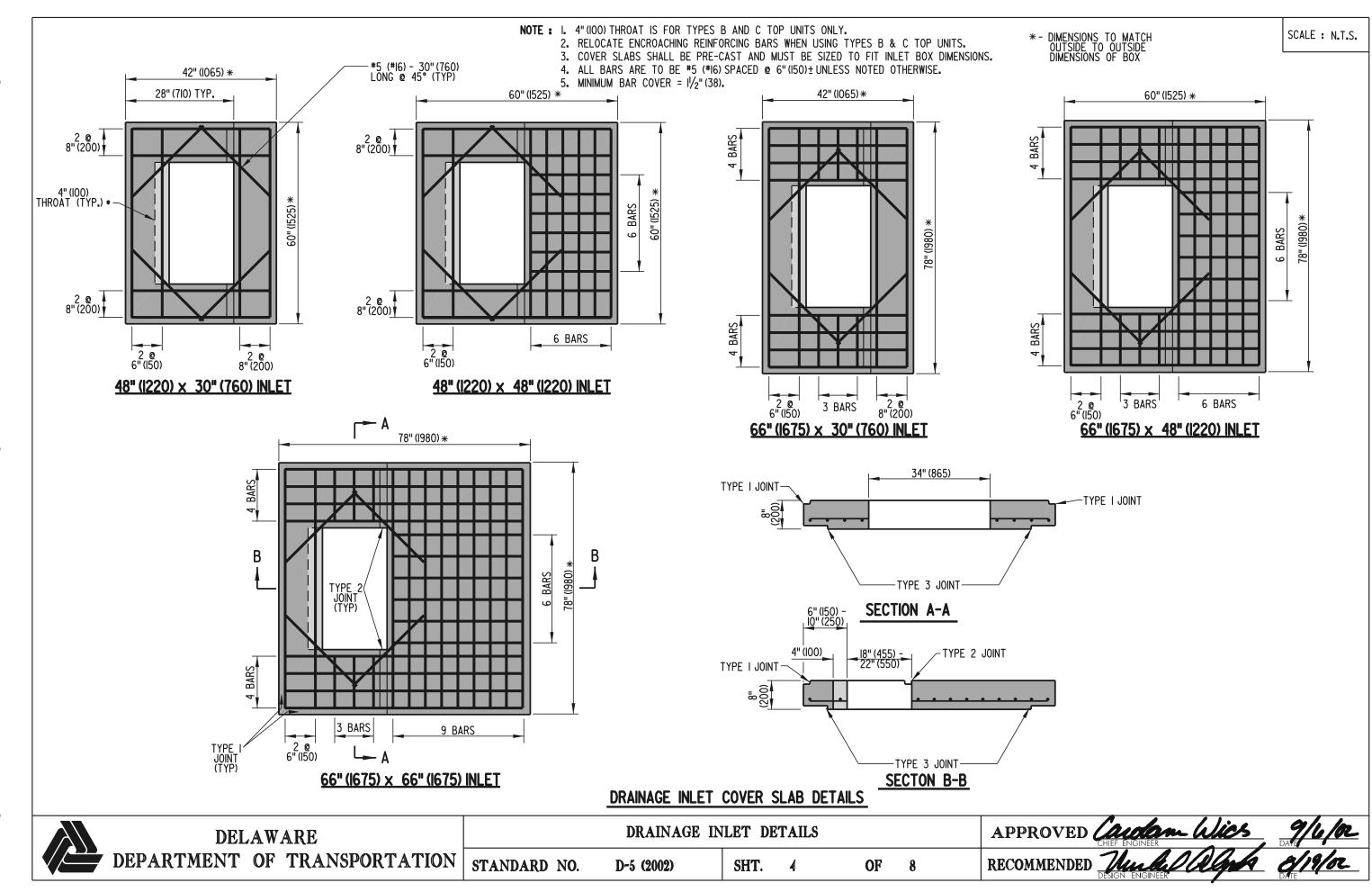


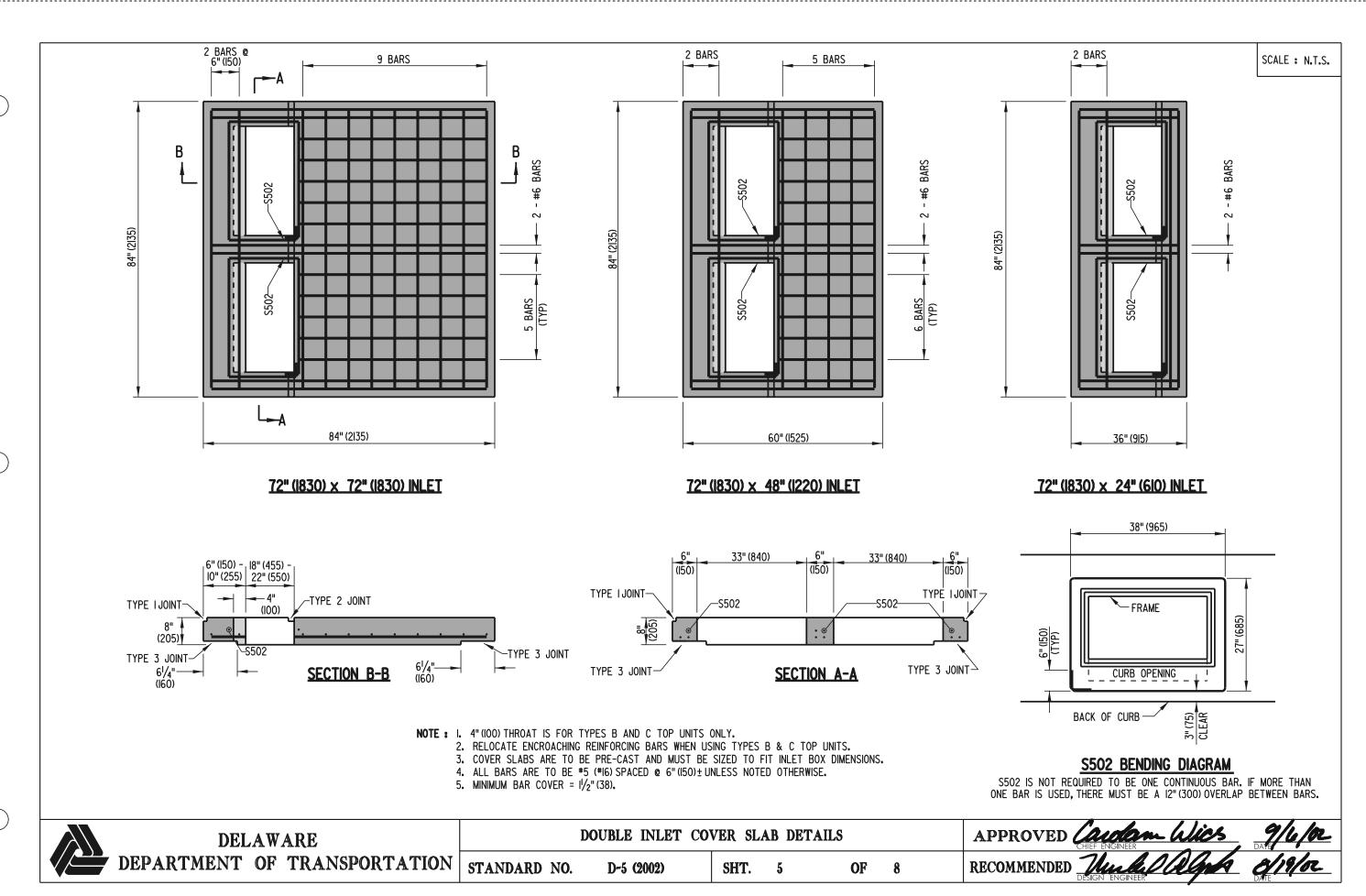
DRAINAGE INLET FRAME AND GRATES

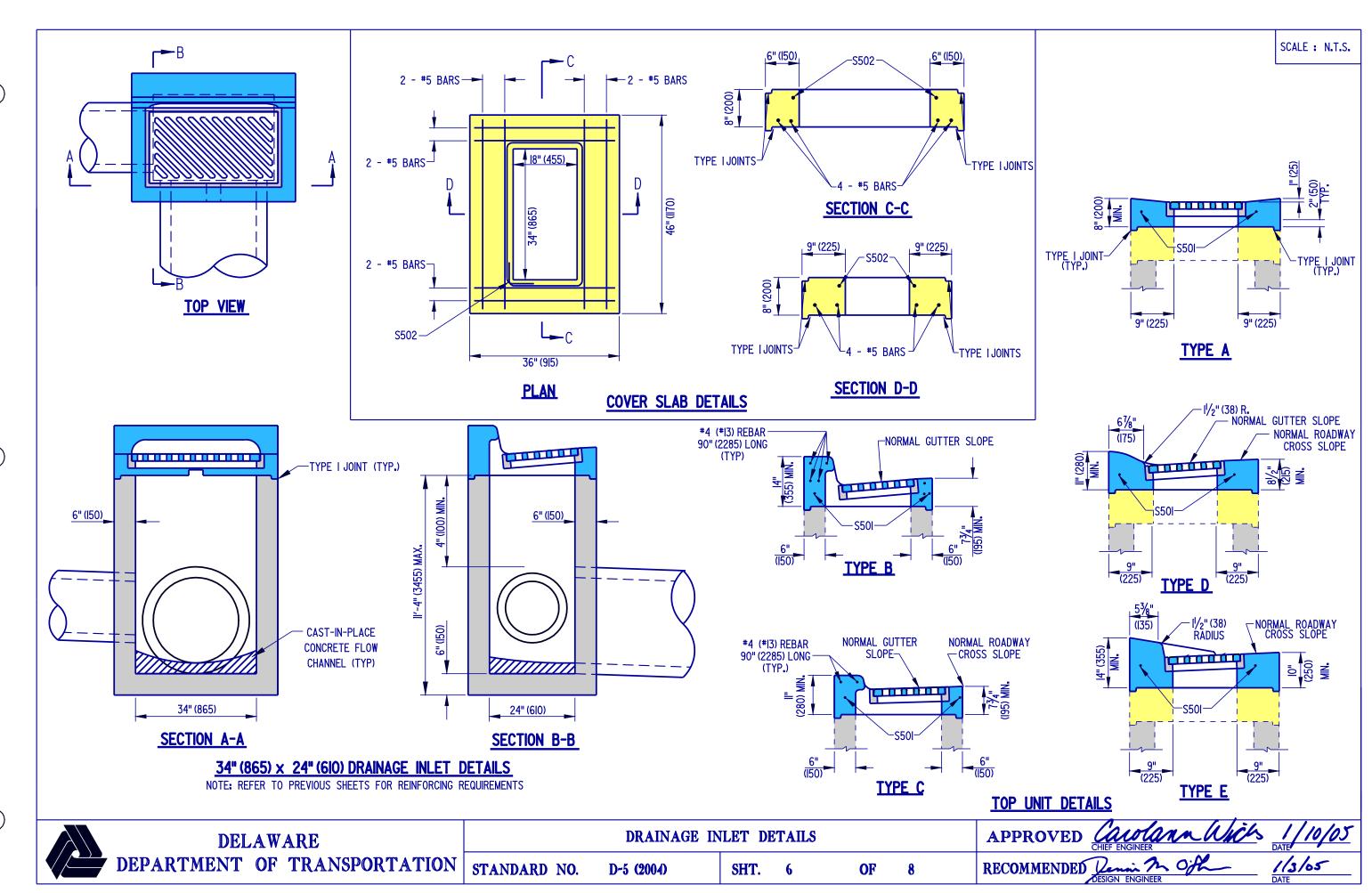
NOTE: I. BOTTOM OF TYPE I GRATE TO BE FLAT AND TRUE. 2. TYPE 2 GRATE SHALL NOT BE INSTALLED WHERE BICYCLE TRAFFIC MAY BE PRESENT.

A	DELAWARE	DRAINAGE INLET DETAILS				APPROVED CHIEF ENGINEER WICKS DATE DATE	
	DEPARTMENT OF TRANSPORTATION	STANDARD NO.	D-5 (2002)	SHT. 2	OF	8	RECOMMENDED TURBULA S/19/02

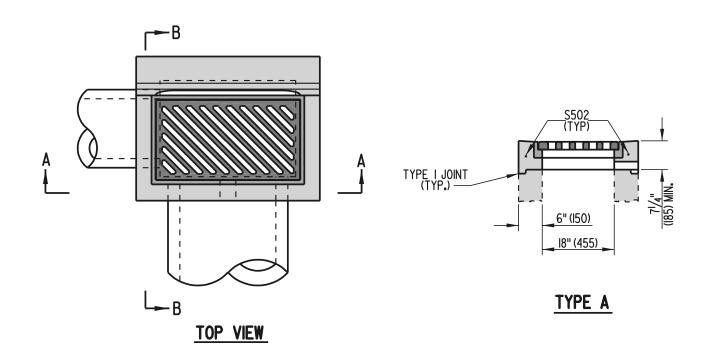


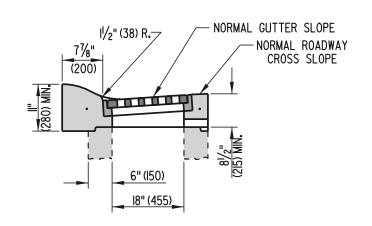


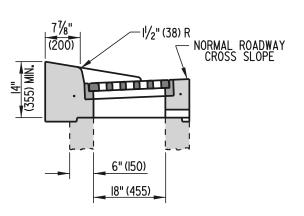








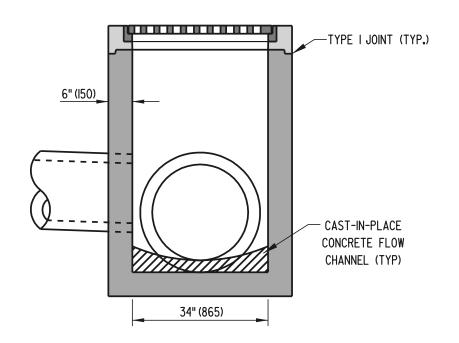


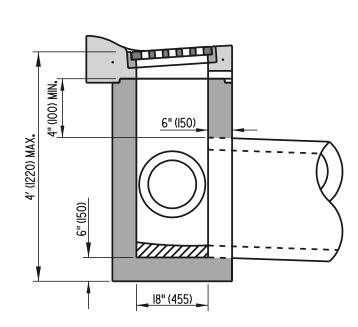


TYPE D

TYPE E

TOP UNIT DETAILS





34" (865) × 18" (455) DRAINAGE INLET DETAILS

SECTION A-A

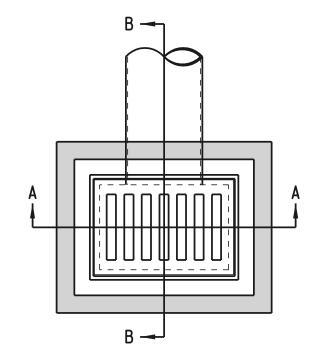
NOTES:

SECTION B-B

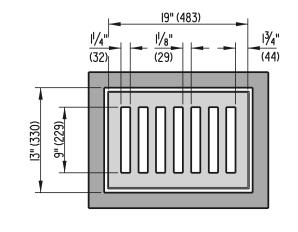
I.) REFER TO PREVIOUS	SHEETS FOR REINFORCEMENT REQUIREMENTS
2.) THE HEIGHT OF THIS	S INLET IS LIMITED TO 4' (1220) MAXIMUM, THEREFORE
STEPS WILL NOT BE	E REQUIRED AND SHOULD NOT BE INSTALLED ON THIS
INLET.	

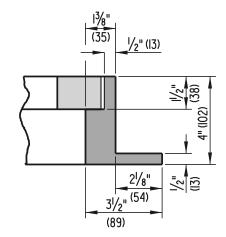
DEL	AW.	ARE	
DEPARTMENT	OF	TRANSPORTATION	

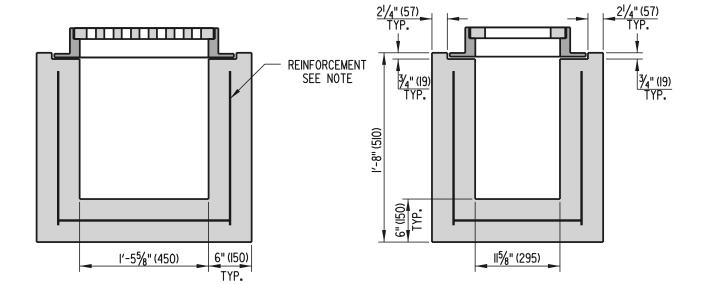
	DRAINAGE I	NLET DE	APPROVED CALCON WICS	9/6/or			
STANDARD NO.	D-5 (2002)	SHT.	7	OF	8	RECOMMENDED June 1000	0/19/02

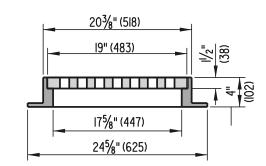


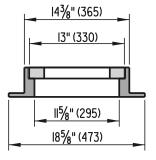
NOTE: I. REINFORCEMENT SHALL BE 4"(IO2) X 4"(IO2) W4 X W4 (W26 X W26)
2. INLET BOXES ARE TO BE PRE-CAST OR CAST-IN-PLACE.











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SECTION B-B

DELAWARE						
DEPARTMENT	OF	TRANSPORTATION				

	LAWN	INLET				APPROVED CHIEF ENGINEER DATE DATE
STANDARD NO.	D-5 (2002)	SHT.	8	OF	8	RECOMMENDED Thull Ollah 8/19/02

