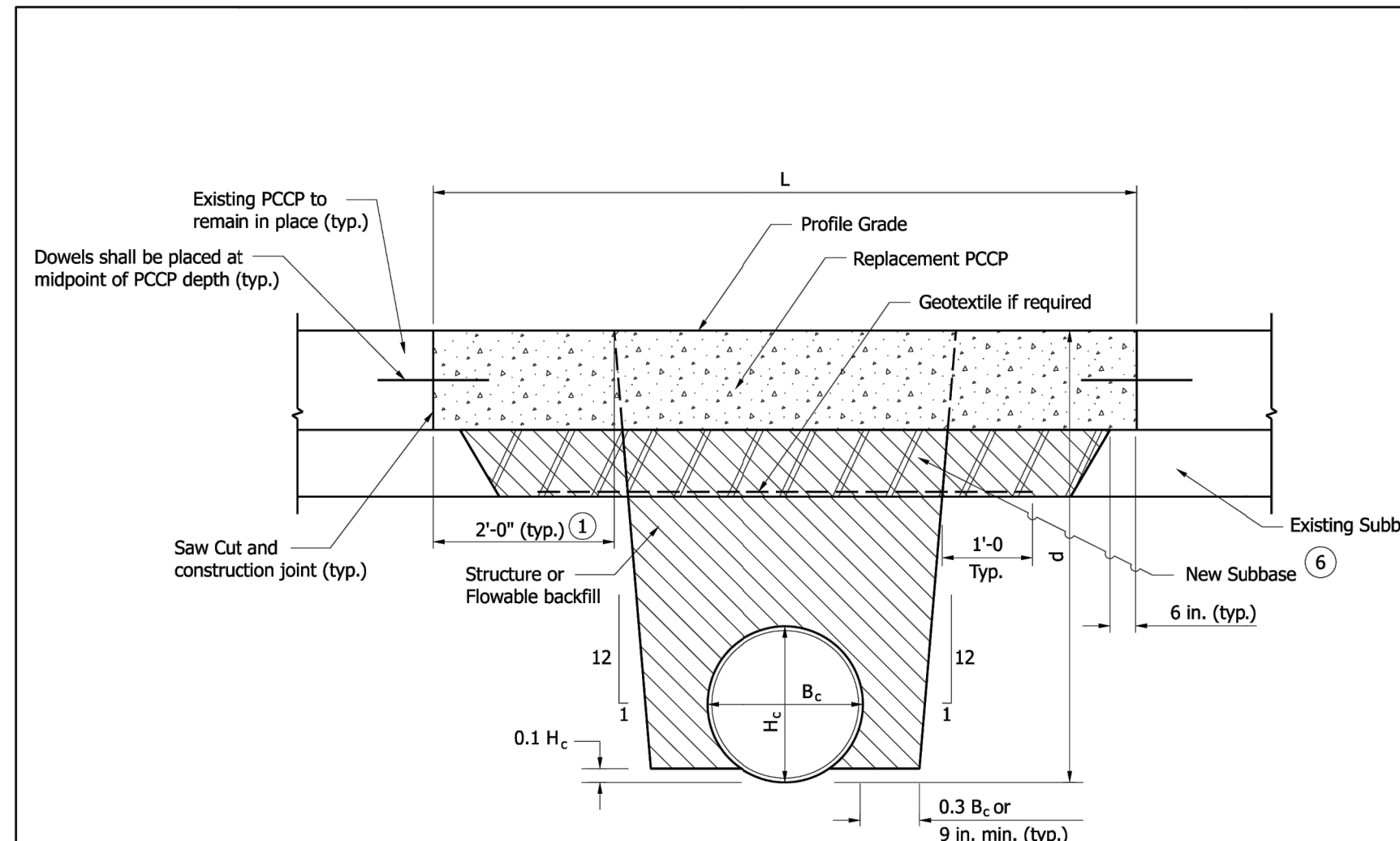


L = Pay limits of pavement removal and pavement replacement (ft); for cross pipe, measured along roadway centerline; for pipe parallel to roadway centerline, measured perpendicular to pipe centerline.
 B_c = Overall diameter or span (in.)
 H_c = Overall diameter or rise (in.)
 d = Vertical distance from flowline to profile grade (ft)

ASPHALT REPLACEMENT PAVEMENT

- NOTES:
- Existing subgrade over this distance shall remain in place.
 - The minimum pavement sections shall be as follows:
 HMA: 165 #/syd HMA Surface, Type A, B, C or D on variable HMA Intermediate, Type A, B, C or D
 - If underdrains are present, they shall be perpetuated in accordance with the details shown on Standard Drawing E 718-UNDR-01.
 - See Standard Drawing E 715-BKFL-01 for pipe backfill trench elevation view.

INDIANA DEPARTMENT OF TRANSPORTATION	
PIPE BACKFILL METHOD 1 EXISTING ROADWAY, TRENCH	
SEPTEMBER 2008	
STANDARD DRAWING NO. E 715-BKFL-03	
	<i>/s/ Richard L. VanCleave</i> 09/02/08 DESIGN STANDARDS ENGINEER DATE
	<i>/s/ Mark A. Miller</i> 09/02/08 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	

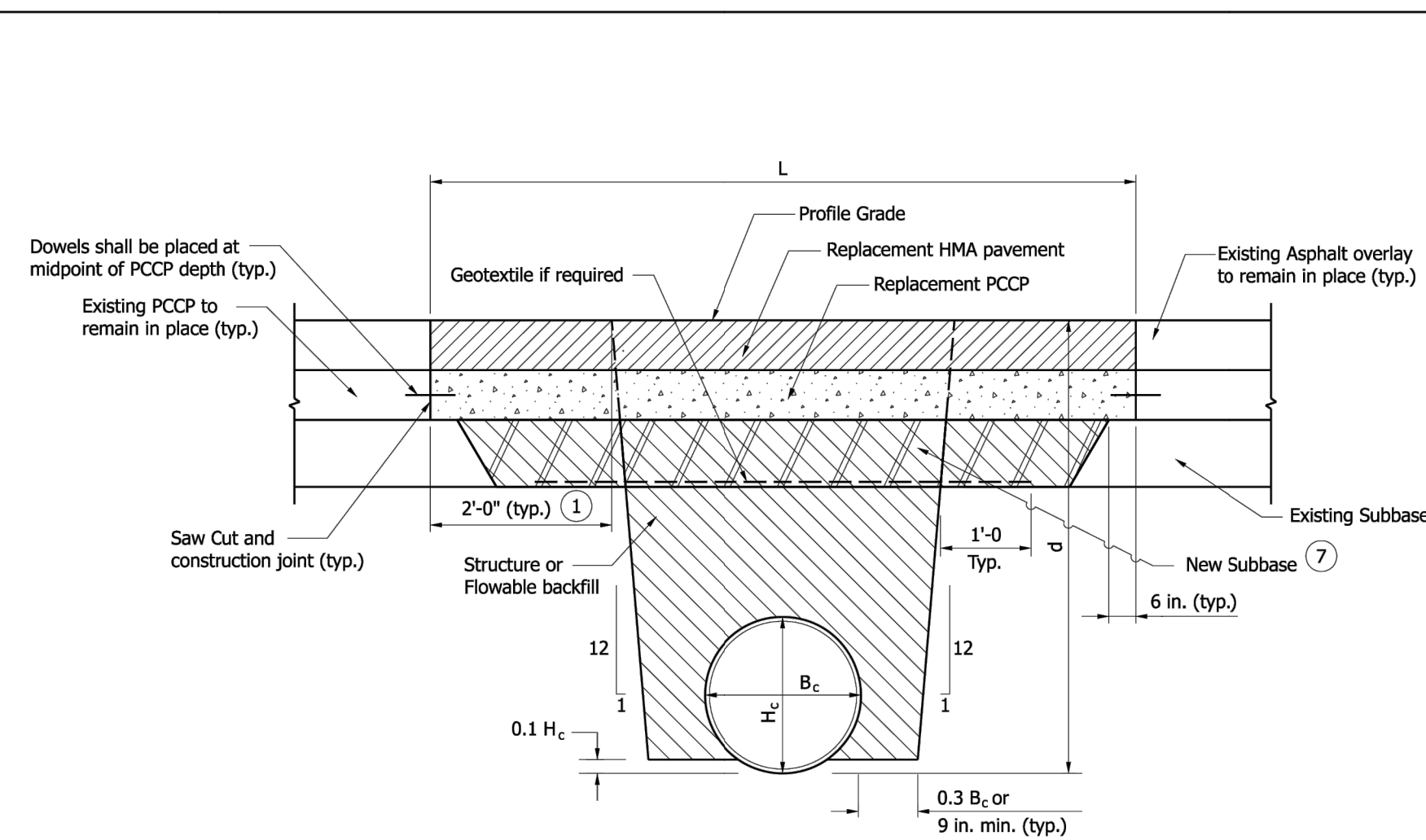


L = Pay limits of pavement removal and pavement replacement (ft); for cross pipe, measured along roadway centerline; for pipe parallel to roadway centerline, measured perpendicular to pipe centerline.
 B_c = Overall diameter or span (in.)
 H_c = Overall diameter or rise (in.)
 d = Vertical distance from flowline to profile grade (ft)

PCCP REPLACEMENT PAVEMENT

- NOTES:
- Existing subgrade over this longitudinal distance shall remain in place.
 - The thickness of the replacement PCCP shall match that of the existing concrete pavement.
 - See Standard Drawing series 506-CCPP for concrete patching details.
 - If underdrains are present, they shall be perpetuated in accordance with the details shown on Standard Drawing E 718-UNDR-01.
 - See Standard Drawing E 715-BKFL-01 for pipe backfill trench elevation view.
 - New subbase type shall match the existing subbase type and thickness.

INDIANA DEPARTMENT OF TRANSPORTATION	
PIPE BACKFILL METHOD 1 EXISTING ROADWAY, TRENCH	
SEPTEMBER 2008	
STANDARD DRAWING NO. E 715-BKFL-04	
	<i>/s/ Richard L. VanCleave</i> 09/02/08 DESIGN STANDARDS ENGINEER DATE
	<i>/s/ Mark A. Miller</i> 09/02/08 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	

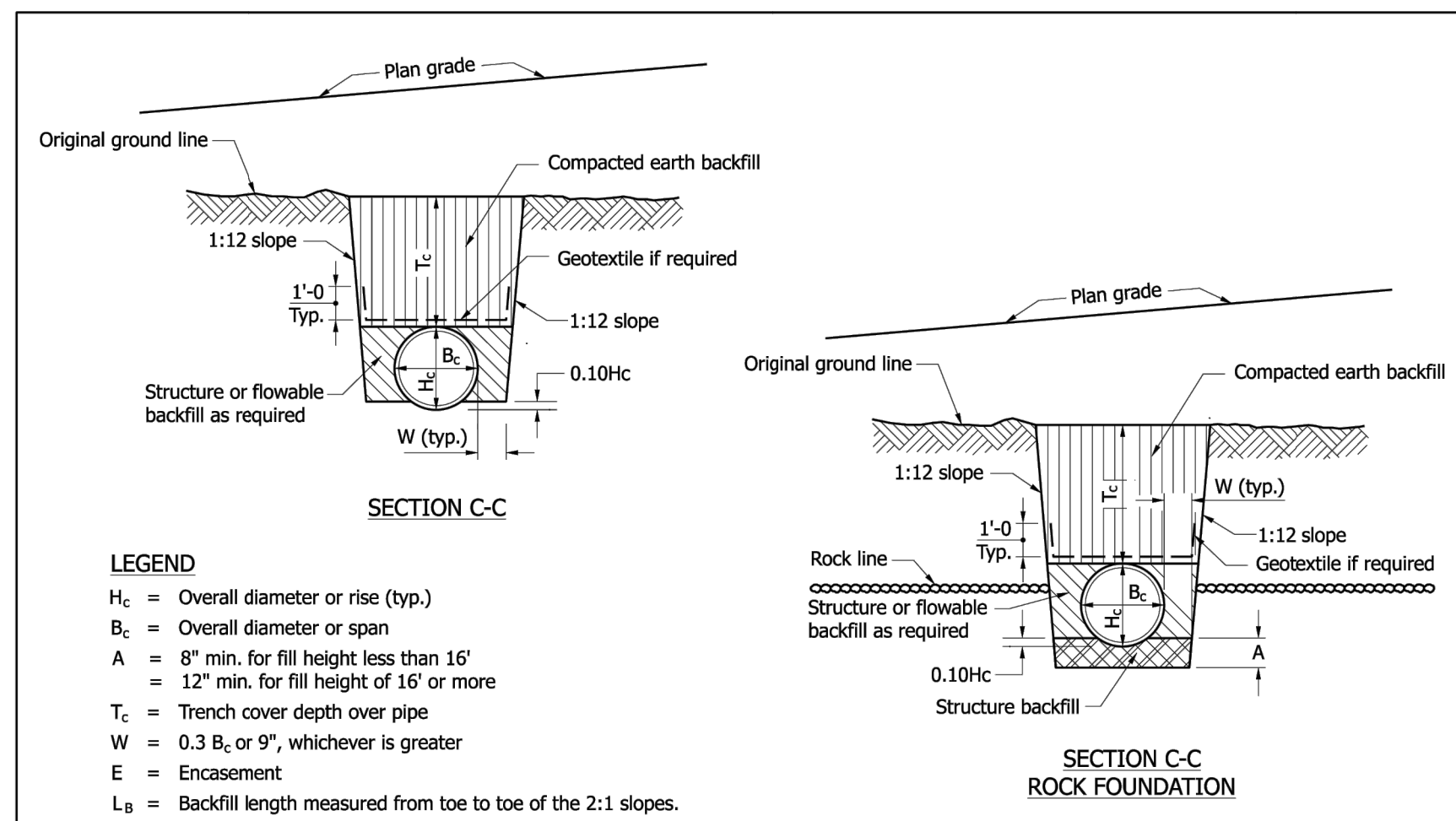


L = Pay limits of pavement removal and pavement replacement (ft); for cross pipe, measured along roadway centerline; for pipe parallel to roadway centerline, measured perpendicular to pipe centerline.
 B_c = Overall diameter or span (in.)
 H_c = Overall diameter or rise (in.)
 d = Vertical distance from flowline to profile grade (ft)

COMPOSITE REPLACEMENT PAVEMENT

- NOTES:
- Existing subgrade over this distance shall remain in place.
 - The thickness of the replacement PCCP shall match that of the existing concrete pavement.
 - The minimum pavement sections shall be as follows:
 HMA: 165 #/syd HMA Surface, Type A, B, C or D on variable HMA Intermediate, Type A, B, C or D
 - See Standard Drawing series 506-CCPP for concrete patching details.
 - If underdrains are present, they shall be perpetuated in accordance with the details shown on Standard Drawing E 718-UNDR-01.
 - See Standard Drawing E 715-BKFL-01 for pipe backfill trench elevation view.
 - New subbase type shall match the existing subbase type and thickness.

INDIANA DEPARTMENT OF TRANSPORTATION	
PIPE BACKFILL METHOD 1 EXISTING ROADWAY, TRENCH	
SEPTEMBER 2008	
STANDARD DRAWING NO. E 715-BKFL-05	
	<i>/s/ Richard L. VanCleave</i> 09/02/08 DESIGN STANDARDS ENGINEER DATE
	<i>/s/ Mark A. Miller</i> 09/02/08 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	

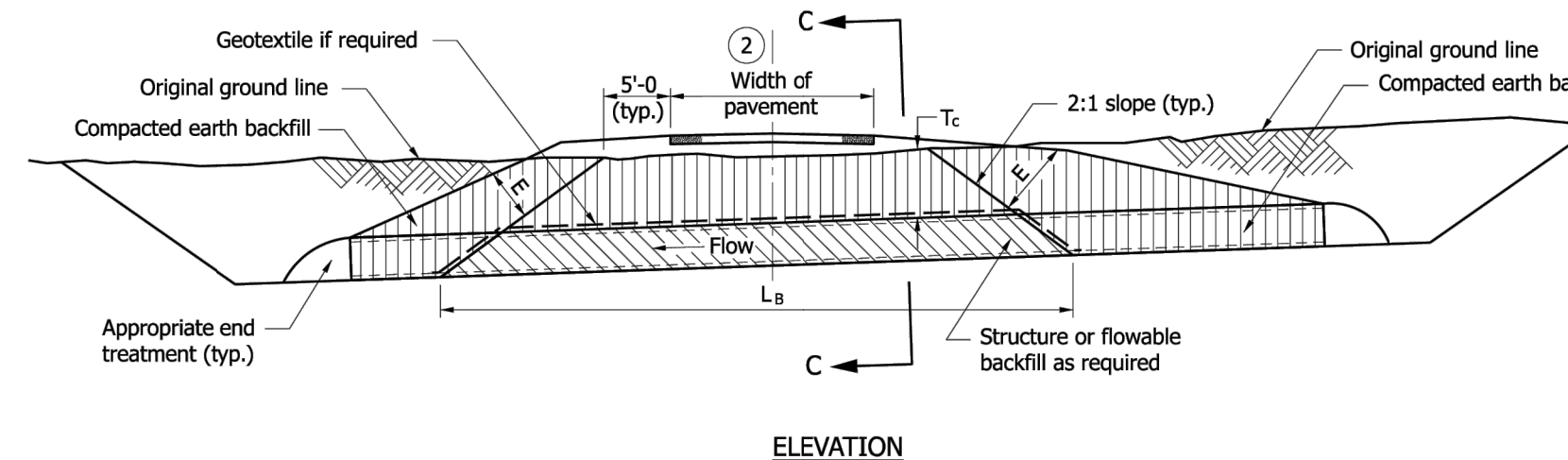


LEGEND

H_c = Overall diameter or rise (typ.)
 B_c = Overall diameter or span
 A = 8" min. for fill height less than 16'
 = 12" min. for fill height of 16' or more
 T_c = Trench cover depth over pipe
 W = 0.3 B_c or 9", whichever is greater
 E = Encasement
 L_B = Backfill length measured from toe to toe of the 2:1 slopes.

- NOTES:
- Protective cover shall be constructed prior to running heavy equipment over installed pipes. The minimum covers are listed below:
 a.) 1.5' for $B_c \leq 18"$
 b.) 3' for $18" < B_c \leq 54"$
 c.) 4' for $B_c > 54"$
 - For backfill purposes, paved shoulders, curbs, and sidewalks are considered pavement. See Standard Drawing E 715-BKFL-10 for pavement limits when curbs, paved shoulders, or sidewalks are present.
 - Flowable or structure backfill shall be encased by compacted earth backfill. The minimum encasement shall be 2 ft. If necessary, the 2:1 slope between the flowable or structure backfill and the encasement shall be modified to maintain the minimum 2 ft encasement.

INDIANA DEPARTMENT OF TRANSPORTATION	
PIPE BACKFILL METHOD 2 NEW OR EXISTING DRIVE	
SEPTEMBER 2008	
STANDARD DRAWING NO. E 715-BKFL-06	
	<i>/s/ Richard L. VanCleave</i> 09/02/08 DESIGN STANDARDS ENGINEER DATE
	<i>/s/ Mark A. Miller</i> 09/02/08 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	



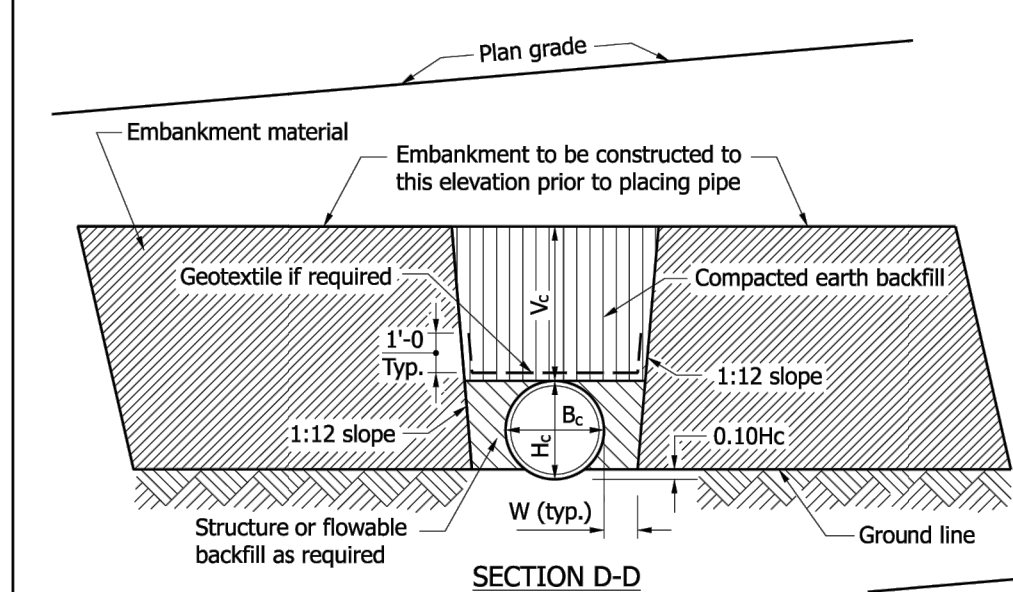
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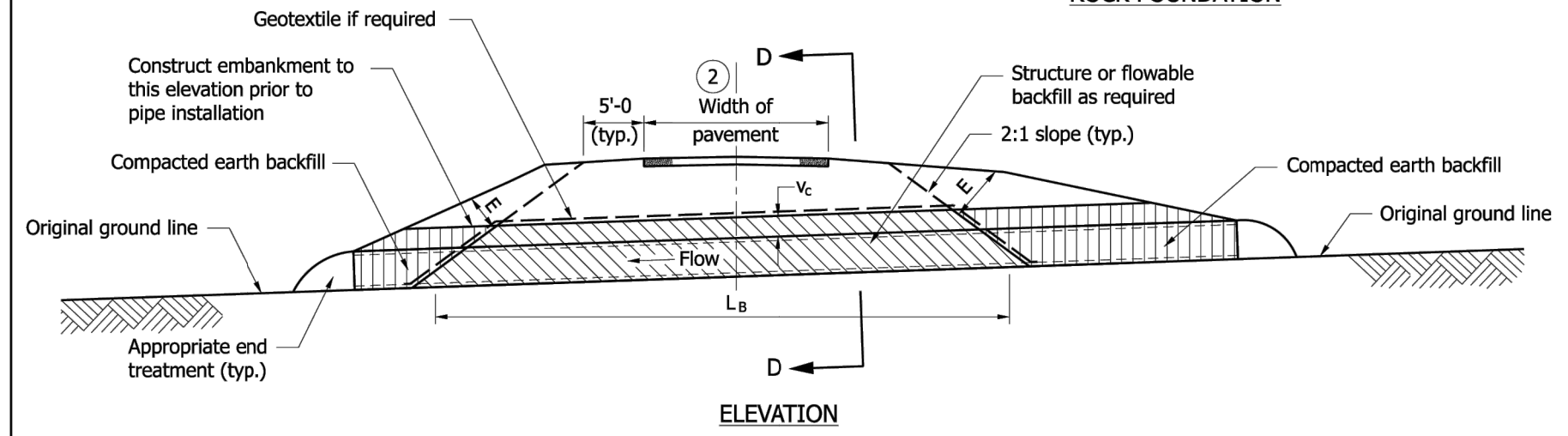
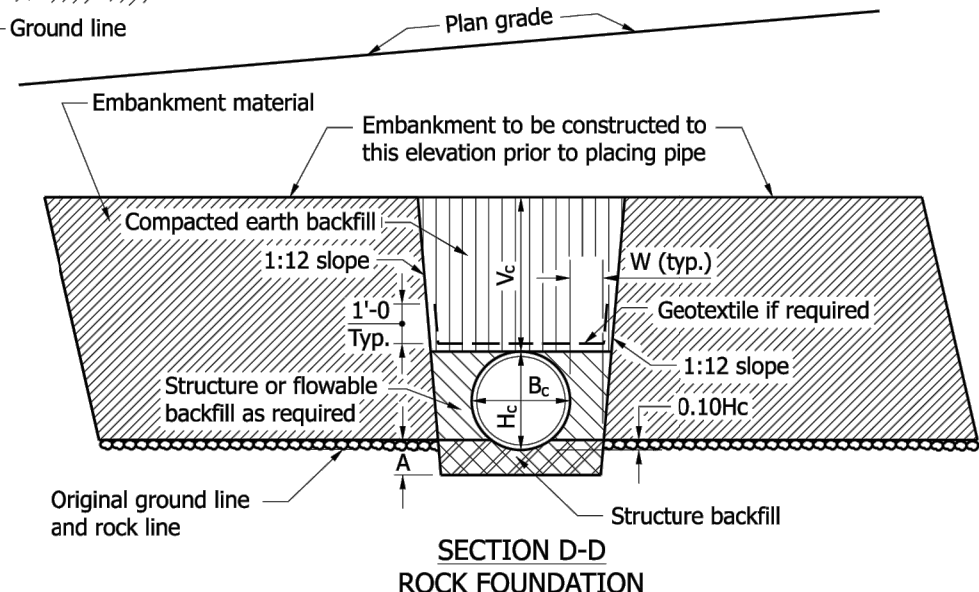
PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA



Revisions:	
Project Number:	89006007-23-034-C1
Requestion Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS120
Sheet:	98 of 140



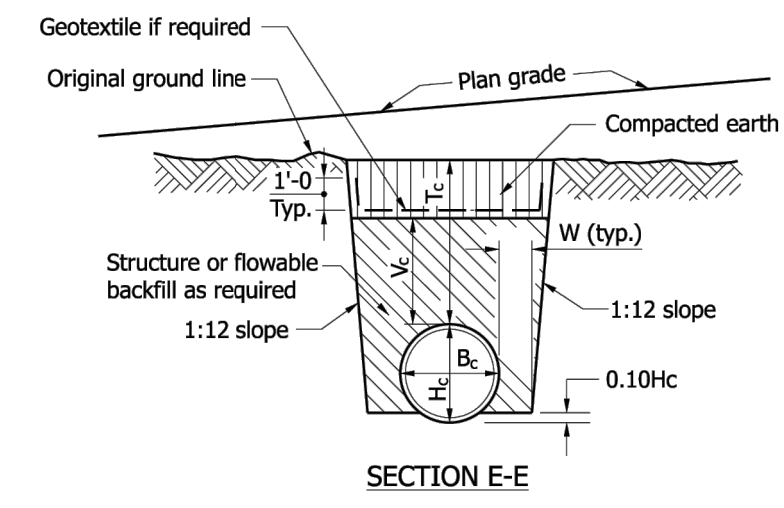
LEGEND
 H_c = Overall diameter or rise (typ.)
 B_c = Overall diameter or span
 A = 8" min. for fill height less than 16"
 = 12" min. for fill height of 16' or more
 V_c = 12" for $B_c \leq 18"$
 = 18" for $B_c > 18"$
 W = 0.3 B_c or 9", whichever is greater
 E = Encasement
 L_B = Backfill length measured from toe to toe of the 2:1 slopes.



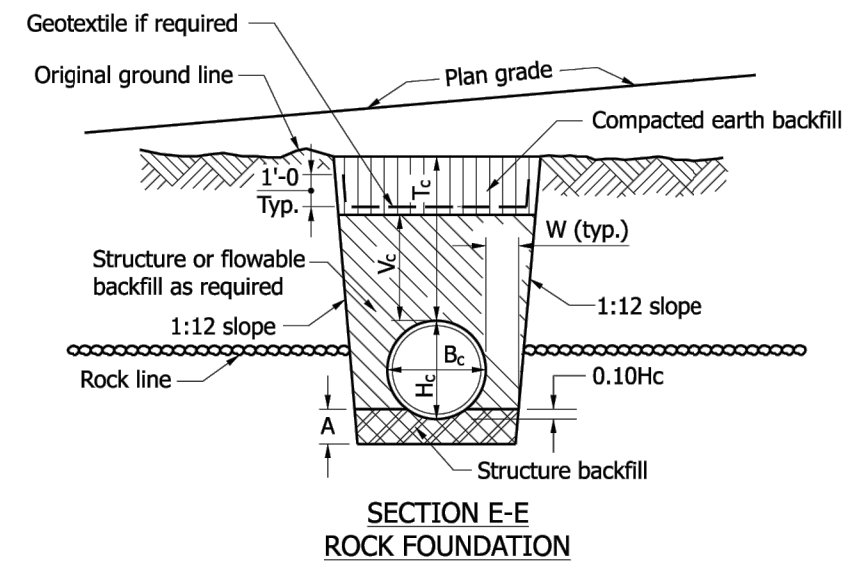
NOTES :
 1. Protective cover shall be constructed prior to running heavy equipment over installed pipes. The minimum covers are listed below:
 a.) 1.5' for $B_c \leq 18"$
 b.) 3' for $18" < B_c \leq 54"$
 c.) 4' for $B_c > 54"$
 2. For backfill purposes, paved shoulders, curbs, and sidewalks are considered pavement. See Standard Drawing E 715-BKFL-10 for pavement limits when curbs, paved shoulders, or sidewalks are present.
 3. Flowable or structure backfill shall be encased by compacted earth backfill. The minimum encasement shall be 2 ft. If necessary, the 2:1 slope between the flowable or structure backfill and the encasement shall be modified to maintain the minimum 2 ft encasement.

INDIANA DEPARTMENT OF TRANSPORTATION
**PIPE BACKFILL METHOD 2
 NEW OR EXISTING DRIVE**
 SEPTEMBER 2008
 STANDARD DRAWING NO. E 715-BKFL-07

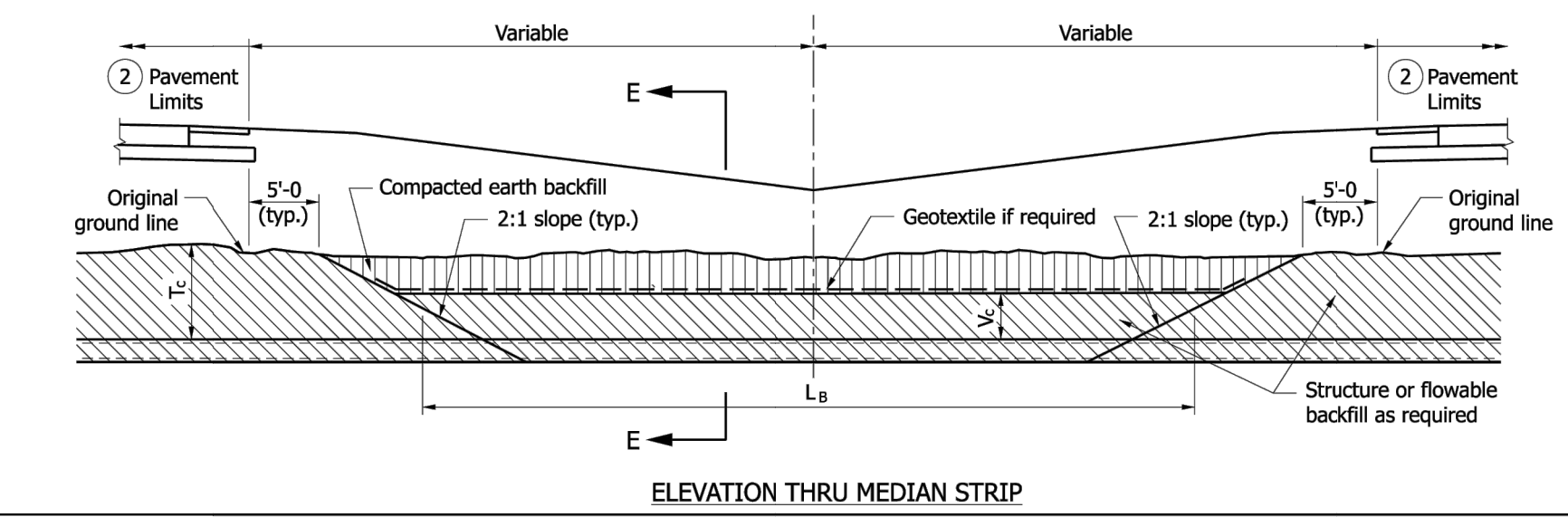
	/s/ Richard L. VanCleave DESIGN STANDARDS ENGINEER	09/02/08 DATE
	/s/ Mark A. Miller CHIEF HIGHWAY ENGINEER	09/02/08 DATE



LEGEND
 H_c = Overall diameter or rise (typ.)
 B_c = Overall diameter or span
 A = 8" min. for fill height less than 16"
 = 12" min. for fill height of 16' or more
 V_c = 12" for $B_c \leq 18"$
 = 18" for $B_c > 18"$
 T_c = Trench cover depth over pipe
 W = 0.3 B_c or 9", whichever is greater
 L_B = Backfill length measured from toe to toe of the 2:1 slopes.

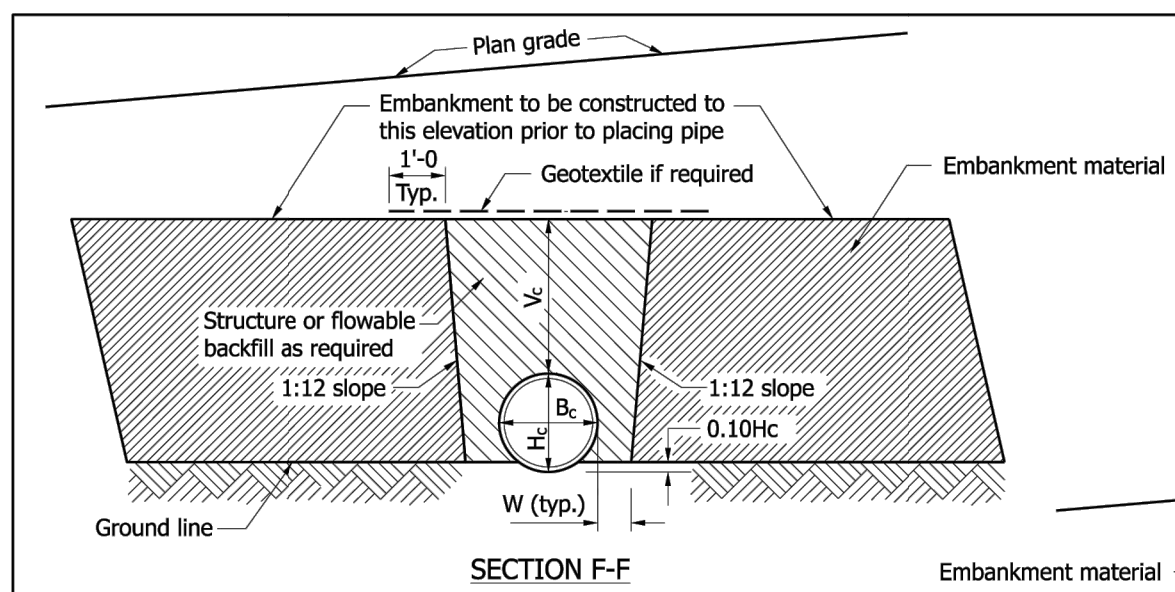


NOTES :
 1. Protective cover shall be constructed prior to running heavy equipment over installed pipes. The minimum covers are listed below:
 a.) 1.5' for $B_c \leq 18"$
 b.) 3' for $18" < B_c \leq 54"$
 c.) 4' for $B_c > 54"$
 2. For backfill purposes, paved shoulders, curbs, and sidewalks are considered pavement. See Standard Drawing E 715-BKFL-10 for pavement limits when curbs, paved shoulders, or sidewalks are present.

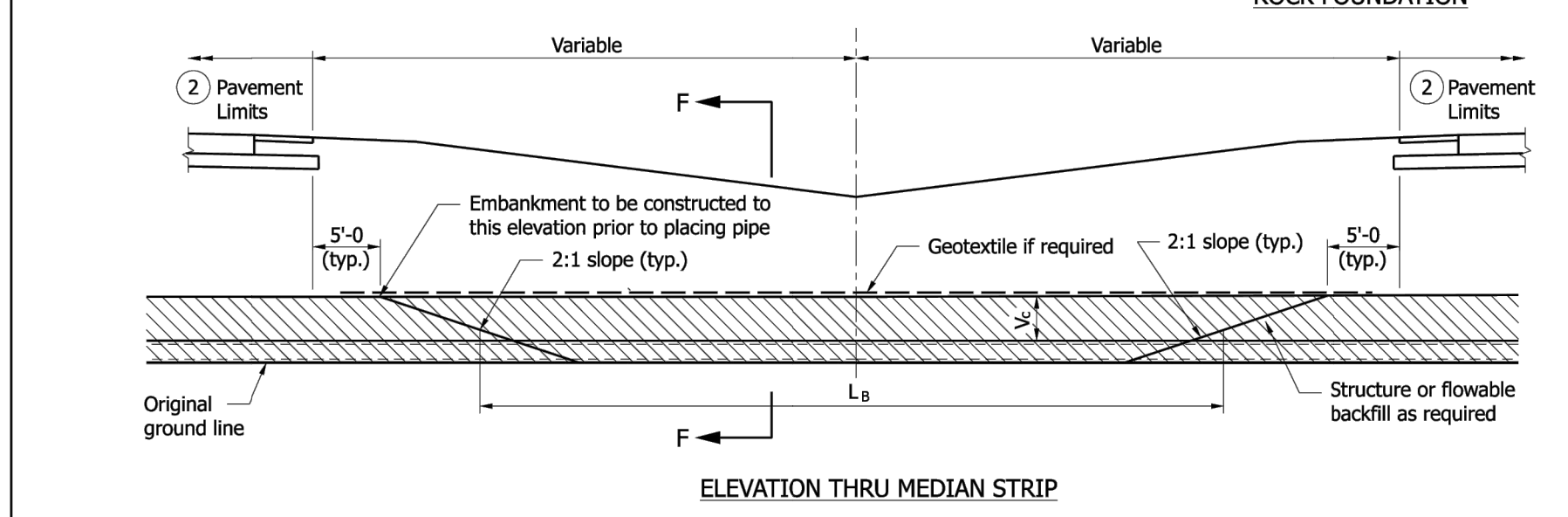
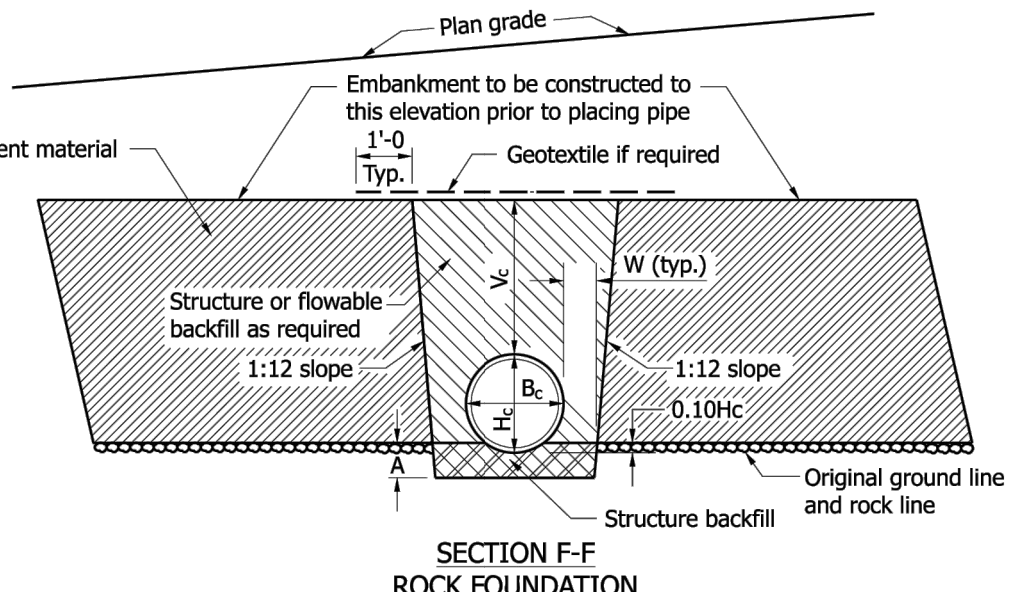


INDIANA DEPARTMENT OF TRANSPORTATION
**PIPE BACKFILL METHOD 3
 MEDIAN INSTALLATION, TRENCH**
 SEPTEMBER 2008
 STANDARD DRAWING NO. E 715-BKFL-08

	/s/ Richard L. VanCleave DESIGN STANDARDS ENGINEER	09/02/08 DATE
	/s/ Mark A. Miller CHIEF HIGHWAY ENGINEER	09/02/08 DATE



LEGEND
 H_c = Overall diameter or rise (typ.)
 B_c = Overall diameter or span
 A = 8" min. for fill height less than 16"
 = 12" min. for fill height of 16' or more
 V_c = 12" for $B_c \leq 18"$
 = 18" for $B_c > 18"$
 W = 0.3 B_c or 9", whichever is greater
 L_B = Backfill length measured from toe to toe of the 2:1 slopes.

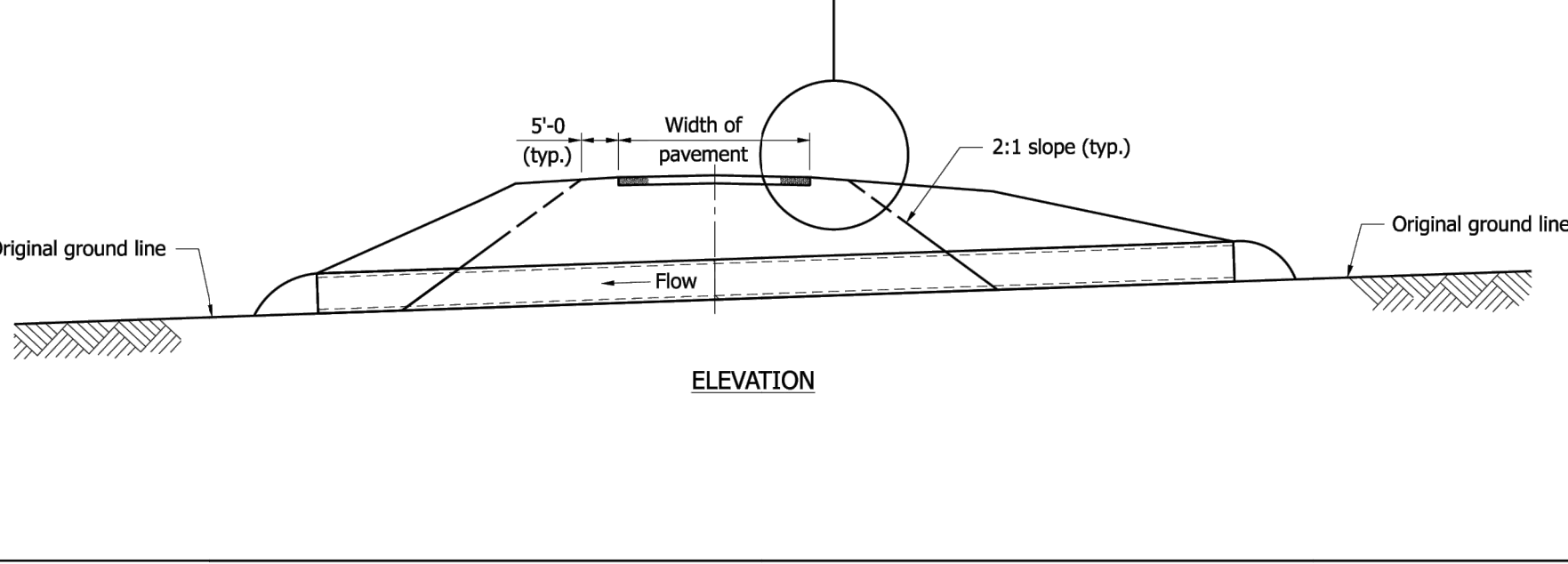
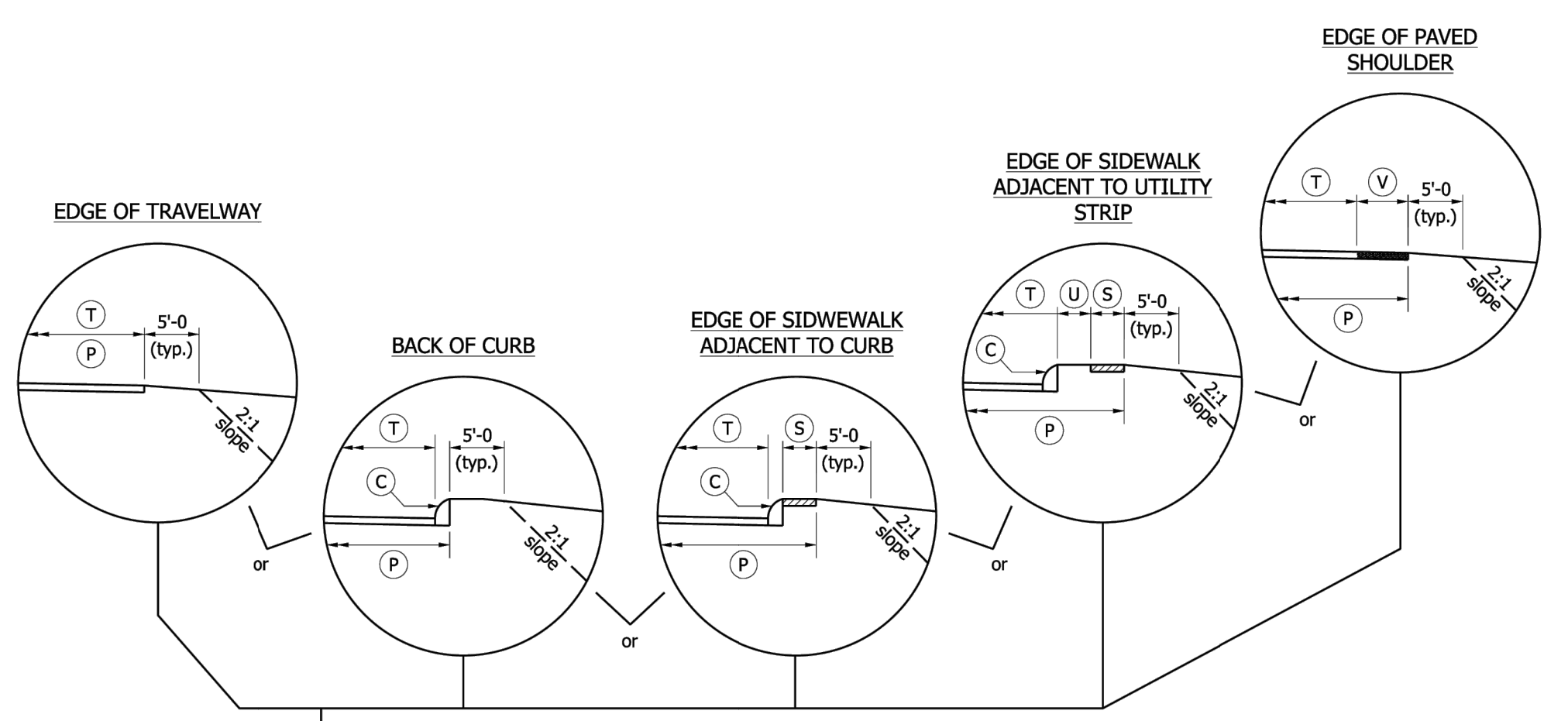


NOTES :
 1. Protective cover shall be constructed prior to running heavy equipment over installed pipes. The minimum covers are listed below:
 a.) 1.5' for $B_c \leq 18"$
 b.) 3' for $18" < B_c \leq 54"$
 c.) 4' for $B_c > 54"$
 2. For backfill purposes, paved shoulders, curbs, and sidewalks are considered pavement. See Standard Drawing E 715-BKFL-10 for pavement limits when curbs, paved shoulders, or sidewalks are present.

INDIANA DEPARTMENT OF TRANSPORTATION
**PIPE BACKFILL METHOD 1
 MEDIAN INSTALLATION, EMBANKMENT**
 SEPTEMBER 2008
 STANDARD DRAWING NO. E 715-BKFL-09

	/s/ Richard L. VanCleave DESIGN STANDARDS ENGINEER	09/02/08 DATE
	/s/ Mark A. Miller CHIEF HIGHWAY ENGINEER	09/02/08 DATE

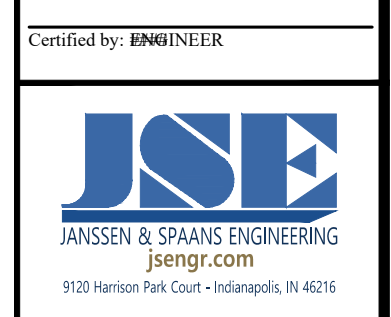
LEGEND
 (C) Curb
 (P) Pavement Limits *
 (S) Sidewalk
 (T) Travel Lane
 (U) Utility Strip
 (V) Paved Shoulder
 * For backfill placement and computation



INDIANA DEPARTMENT OF TRANSPORTATION
**PIPE BACKFILL
 LIMIT DETERMINATION**
 SEPTEMBER 2007
 STANDARD DRAWING NO. E 715-BKFL-10

	/s/ Richard L. VanCleave DESIGN STANDARDS ENGINEER	09/04/07 DATE
	/s/ Mark A. Miller CHIEF HIGHWAY ENGINEER	09/04/07 DATE

Last Saved By: pmdmwh Printed: 8/20/24
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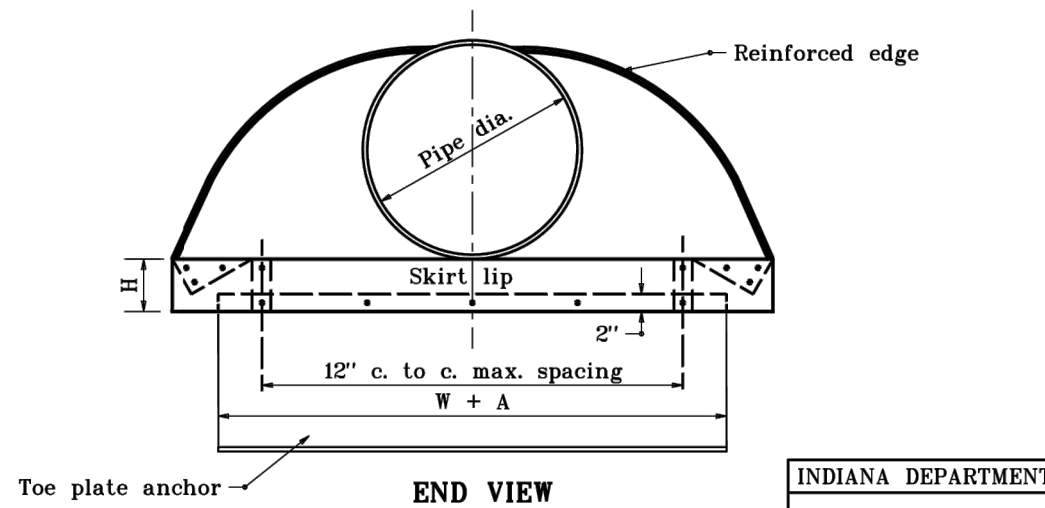
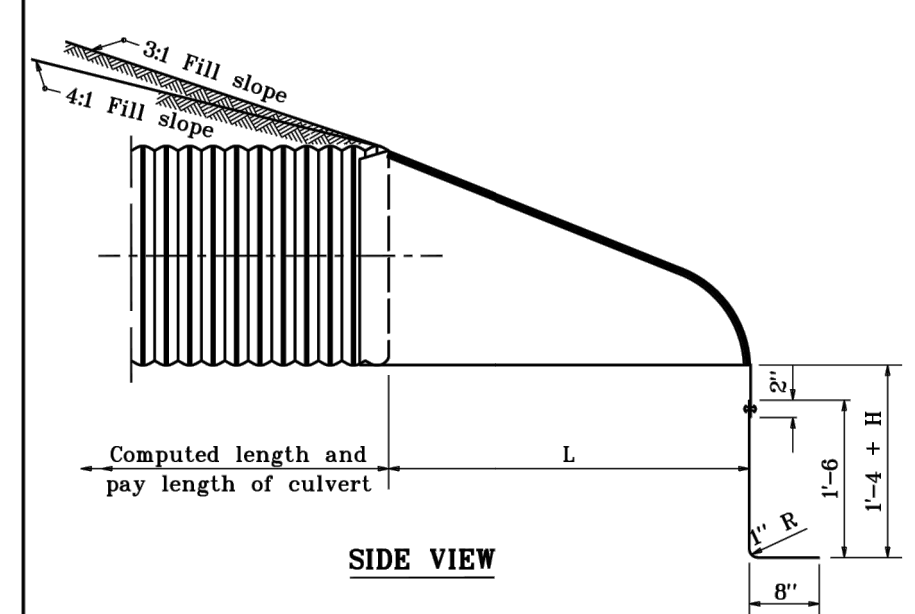
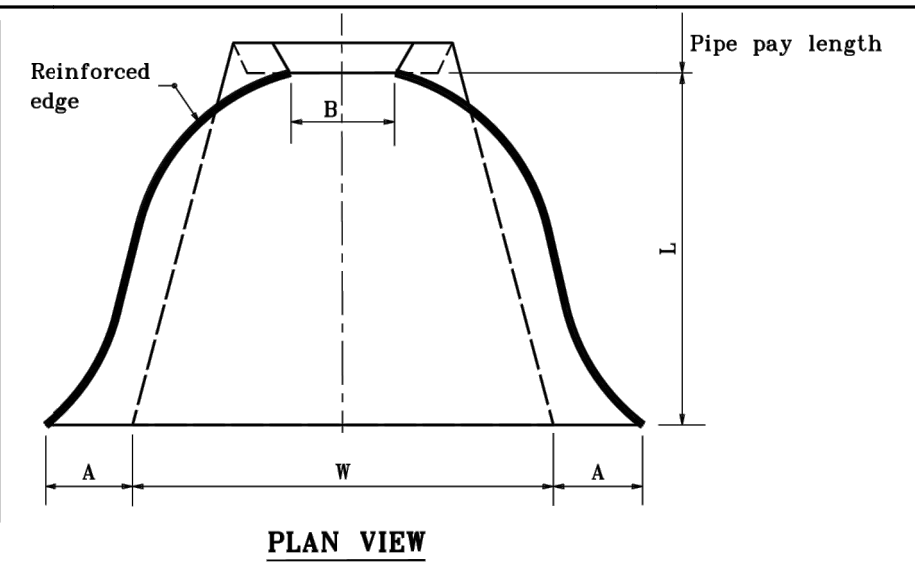


PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA



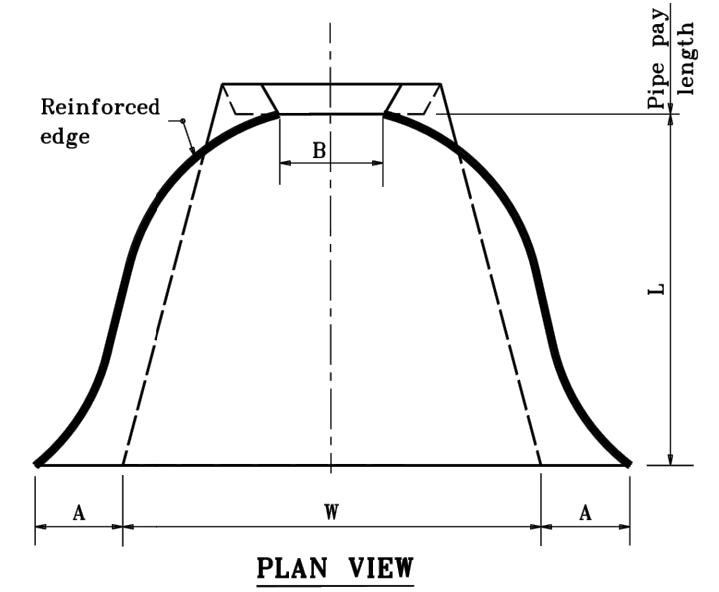
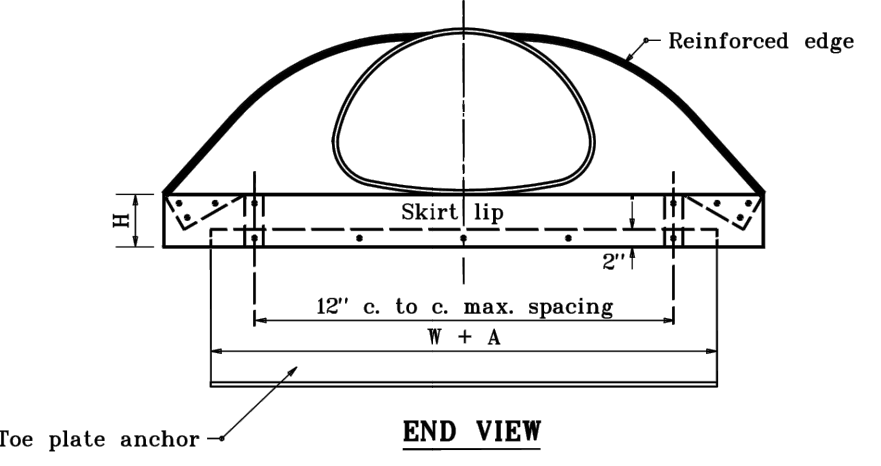
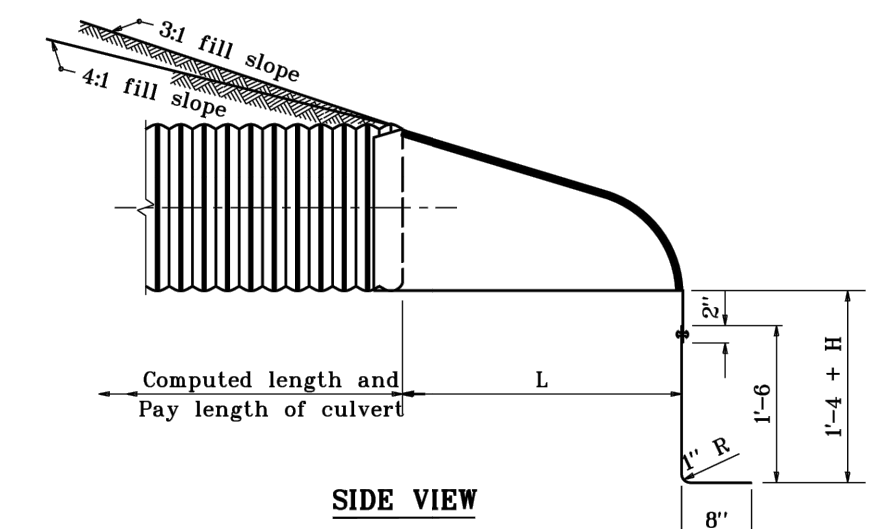
Revisions:	
Project Number:	89006007-23-034-C1
Requestion Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS121
Sheet:	99 of 140

PIPE DIA.	END SECTION THICK. (in.)	DIMENSIONS					APPROX. SLOPE	BODY
		A (±1")	B (Max.) (±1")	H (±1½")	L (±1½")	W (±2")		
12	.064	6	6	6	21	24	2½:1	1 Pc.
15	.064	7	8	6	26	30	2½:1	1 Pc.
18	.064	8	10	6	31	36	2½:1	1 Pc.
21	.064	9	12	6	36	42	2½:1	1 Pc.
24	.064	10	13	6	41	48	2½:1	1 Pc.
30	.079	12	16	8	51	60	2½:1	1 Pc.
36	.079	14	19	9	60	72	2½:1	2 Pc.

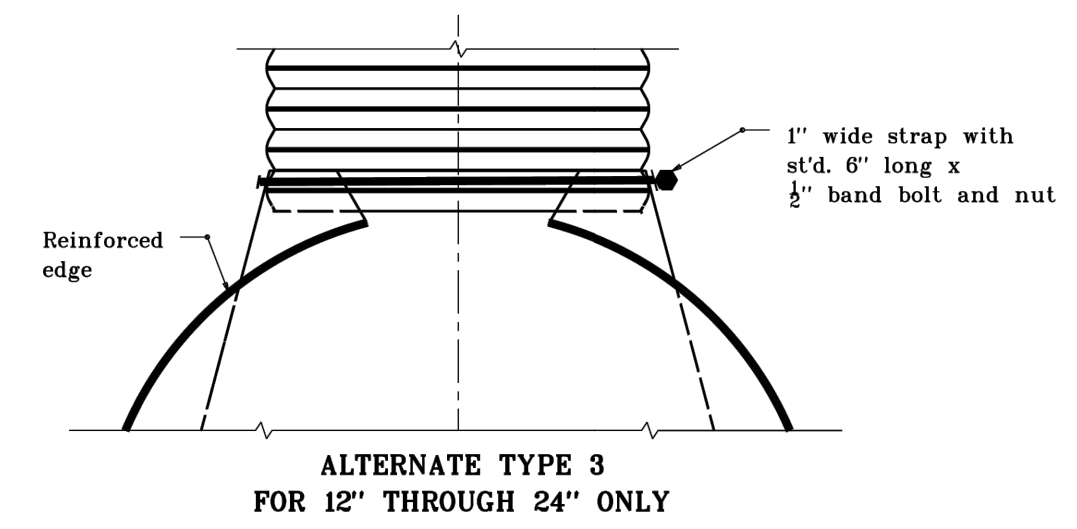
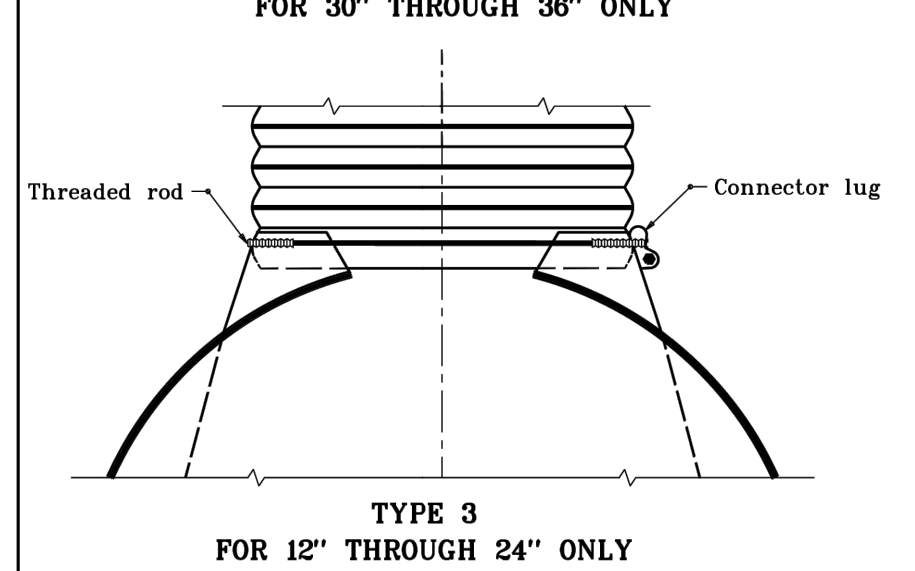
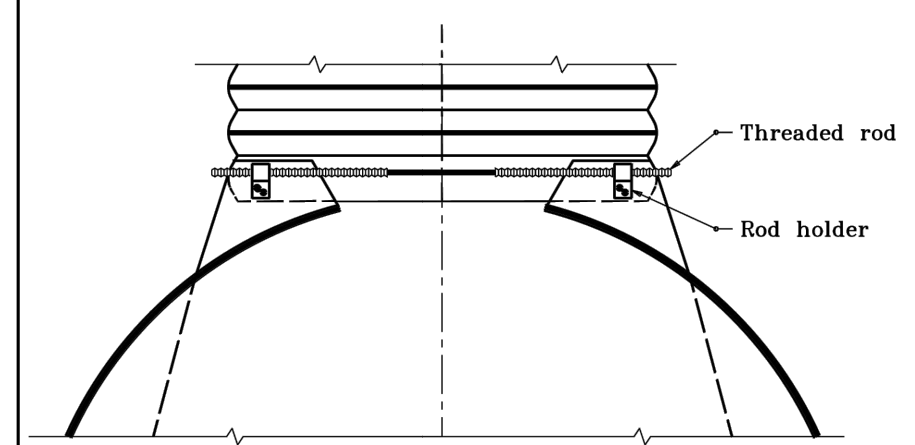
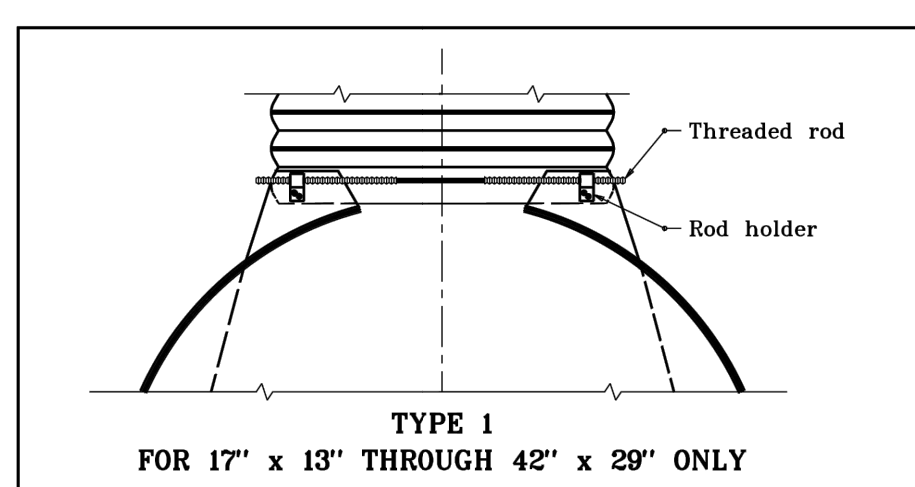


INDIANA DEPARTMENT OF TRANSPORTATION
METAL PIPE END SECTION
 JANUARY 1998
 STANDARD DRAWING NO. E 715-MPES-01
 DETAILS PLACED IN THIS FORMAT 11-15-99
 No. 18095
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 /s/ Anthony L. Uremovich 11-15-99
 DESIGN STANDARDS ENGINEER DATE
 /s/ Piroos Zandi 11-15-99
 CHIEF HIGHWAY ENGINEER DATE
 ORIGINALLY APPROVED 1-12-98
 DESIGN STANDARDS ENGINEER

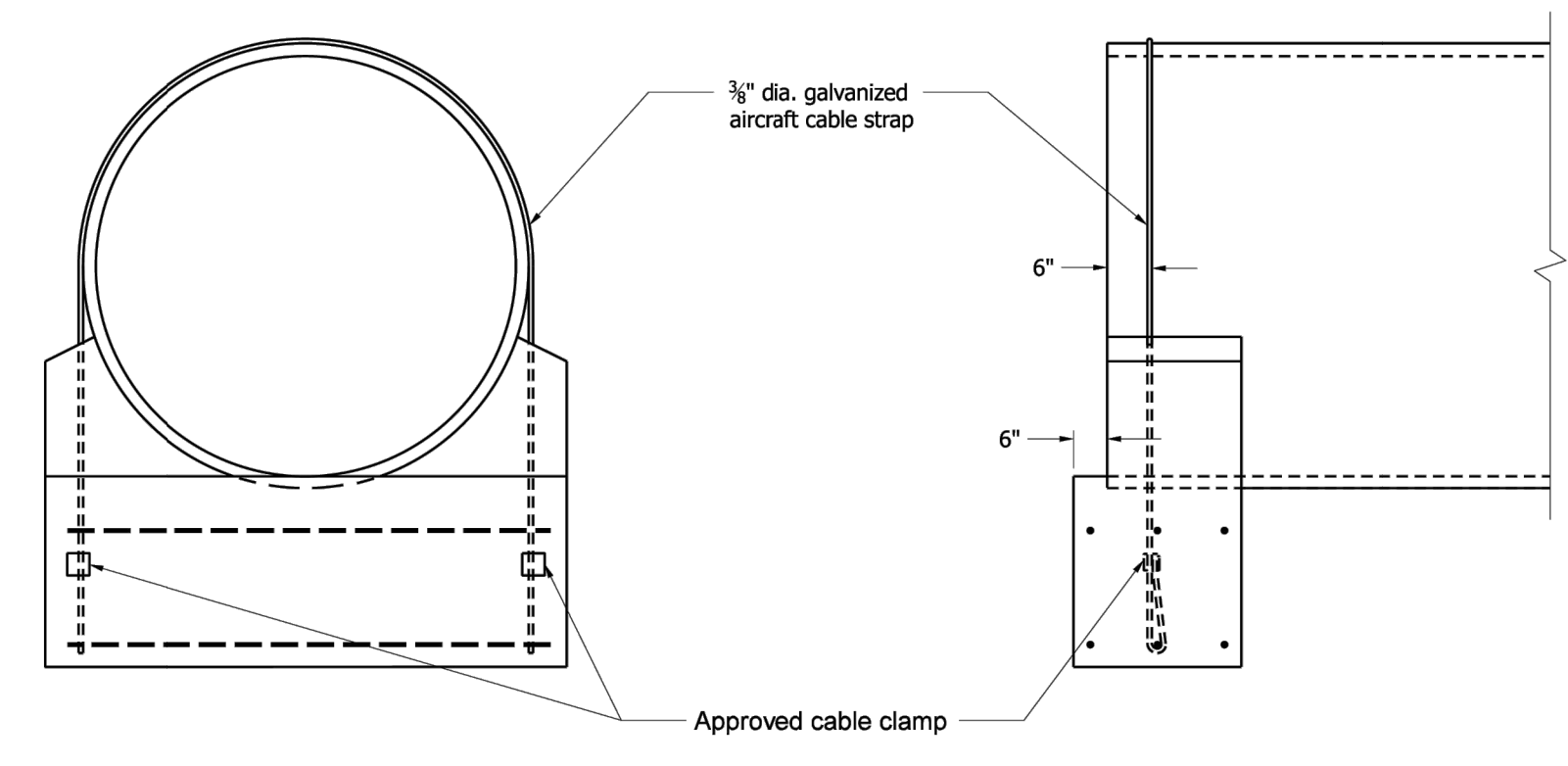
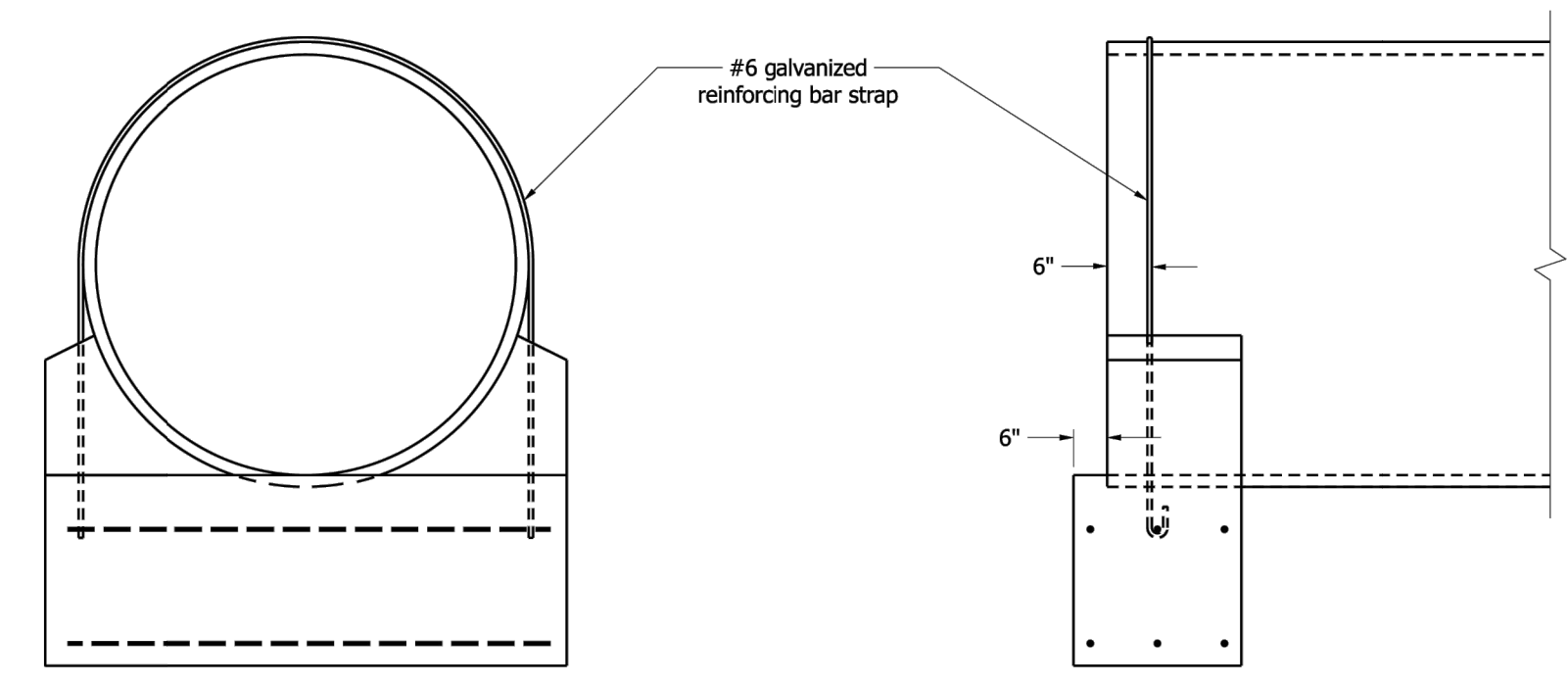
PIPE-ARCH DIMENSIONS	SPAN	RISE	END SECTION THICK. (in.)	DIMENSIONS					APPROX. SLOPE	BODY
				A (±1")	B (Max.) (±1")	H (±1½")	L (±1½")	W (±2")		
17	13	.064	7	9	6	19	30	2½:1	1 Pc.	
21	15	.064	7	10	6	23	36	2½:1	1 Pc.	
24	18	.064	8	12	6	28	42	2½:1	1 Pc.	
28	20	.064	9	14	6	32	48	2½:1	1 Pc.	
35	24	.079	10	16	8	39	60	2½:1	1 Pc.	
42	29	.079	12	18	9	46	75	2½:1	1 Pc.	



INDIANA DEPARTMENT OF TRANSPORTATION
METAL PIPE ARCH
END SECTION
 JANUARY 1998
 STANDARD DRAWING NO. E 715-MPES-02
 DETAILS PLACED IN THIS FORMAT 11-15-99
 No. 18095
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 /s/ Anthony L. Uremovich 11-15-99
 DESIGN STANDARDS ENGINEER DATE
 /s/ Piroos Zandi 11-15-99
 CHIEF HIGHWAY ENGINEER DATE
 ORIGINALLY APPROVED 1-12-98
 DESIGN STANDARDS ENGINEER

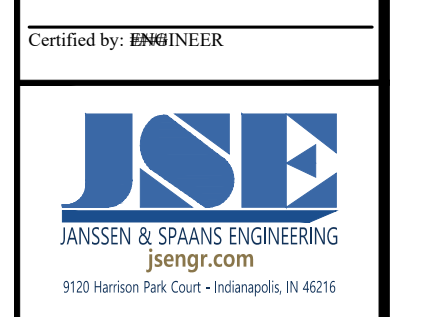


INDIANA DEPARTMENT OF TRANSPORTATION
METAL PIPE
END SECTION CONNECTIONS
 JANUARY 1998
 STANDARD DRAWING NO. E 715-MPES-03
 DETAILS PLACED IN THIS FORMAT 7-27-99
 No. 18095
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 /s/ Anthony L. Uremovich 7-27-99
 DESIGN STANDARDS ENGINEER DATE
 /s/ Piroos Zandi 7-27-99
 CHIEF HIGHWAY ENGINEER DATE
 ORIGINALLY APPROVED 1-12-98
 DESIGN STANDARDS ENGINEER



GENERAL NOTES
 1. See Standard Drawing E 715-PAHB-01 for hook bolt details.

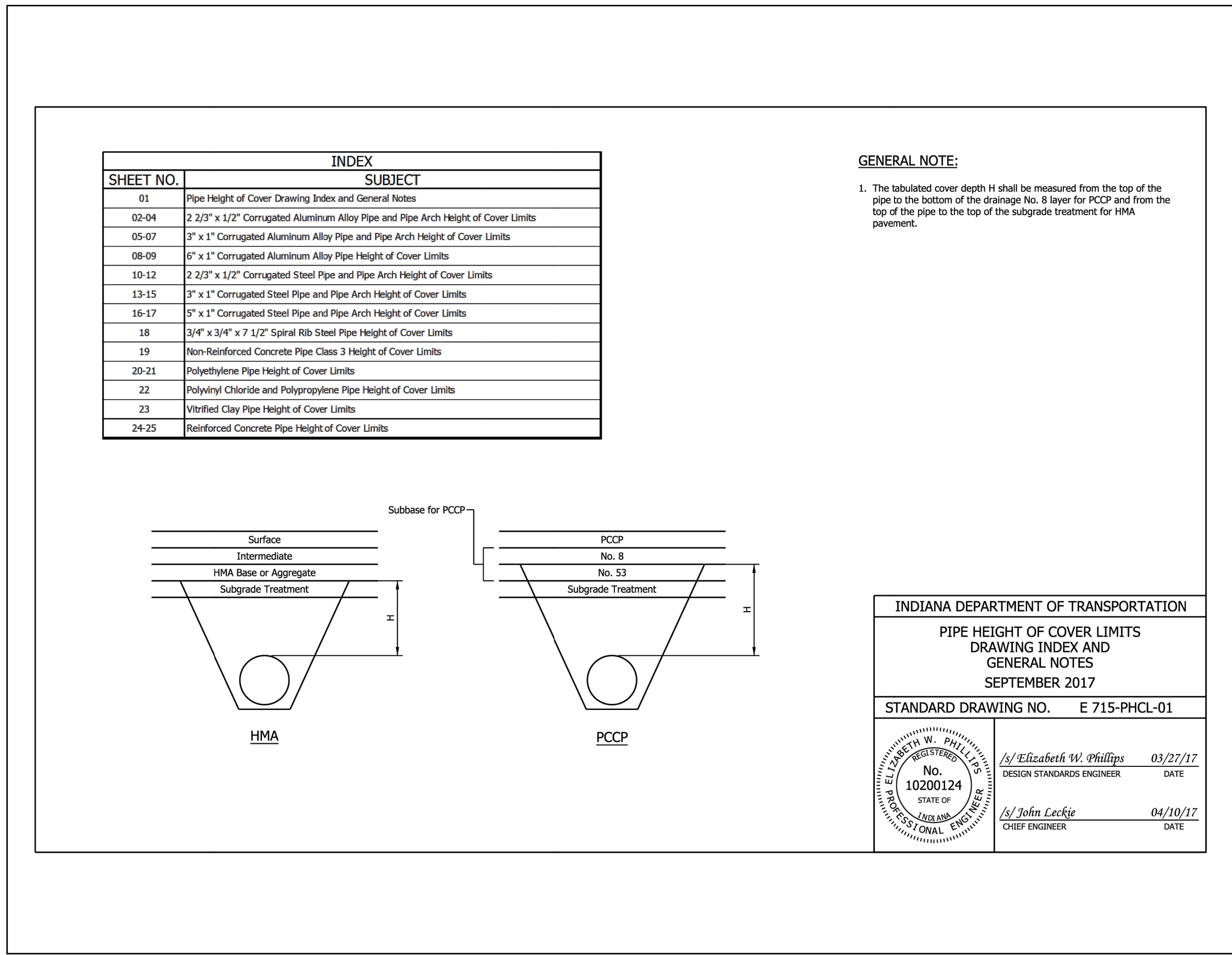
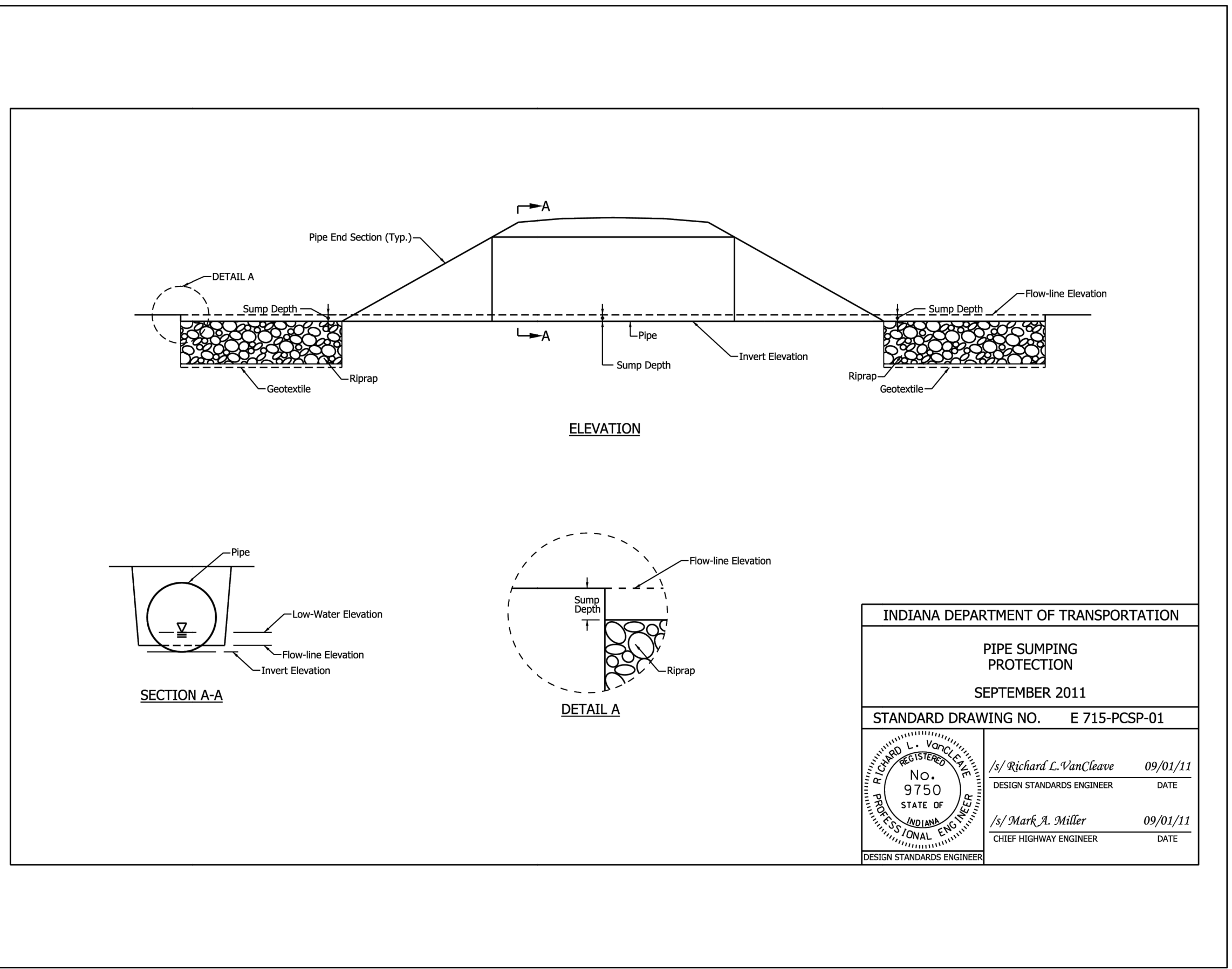
INDIANA DEPARTMENT OF TRANSPORTATION
PIPE ANCHOR STRAP DETAILS
 SEPTEMBER 2008
 STANDARD DRAWING NO. E 715-PASD-01
 No. 9750
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 /s/ Richard L. VanCleave 09/02/08
 DESIGN STANDARDS ENGINEER DATE
 /s/ Mark A. Miller 09/02/08
 CHIEF HIGHWAY ENGINEER DATE
 DESIGN STANDARDS ENGINEER



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA



Revisions:
 Project Number: 89006007-23-034-C1
 Requisition Number:
 Account Number:
 Designer: IID Drawing Date: 8/30/2024
 Drafter: JRC Drawing Scale: N/A
 DAPW Approval:
 Client Approval:
 Reference Number: 1394
 Building Reference:
 Drawing Number: CS122
 Sheet: 100 of 140



2 2/3" x 1/2" CORRUGATED ALUMINUM ALLOY PIPE (LOCK SEAM)
HEIGHT OF COVER LIMITS (ft)

AREA (sf)	DIAMETER (in.)	THICKNESS (in.)									
		0.060		0.075		0.105		0.135		0.164	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
0.8	12	1.0	100.0	1.0	100.0	1.0	100.0				
1.2	15	1.0	100.0	1.0	100.0	1.0	100.0				
1.8	18	1.0	100.0	1.0	100.0	1.0	100.0				
2.4	21	1.0	88.5	1.0	100.0	1.0	100.0				
3.1	24	1.0	77.5	1.0	96.8	1.0	100.0	1.0	100.0		
4.0	27	1.0	68.8	1.0	86.0	1.0	100.0	1.0	100.0		
4.9	30	1.0	62.0	1.0	77.4	1.0	100.0	1.0	100.0		
5.9	33			1.0	64.5	1.0	90.4	1.0	100.0		
7.1	36			1.0	64.5	1.0	90.4	1.0	100.0		
9.6	42					1.0	77.4	1.0	99.7		
12.6	48					1.0	66.7	1.0	86.6	1.0	100.0
15.9	54					1.0	54.4	1.0	70.8	1.0	87.6
19.6	60							1.0	57.6	1.0	71.6
23.8	66									1.0	57.7
28.3	72									1.0	45.5

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-02

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

2 2/3" x 1/2" CORRUGATED ALUMINUM ALLOY PIPE (RIVETED)
HEIGHT OF COVER LIMITS (ft)

AREA (sf)	DIAMETER (in.)	THICKNESS (in.)									
		0.060		0.075		0.105		0.135		0.164	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
0.8	12	1.0	50.0	1.0	50.0	1.0	86.6				
1.2	15	1.0	40.0	1.0	40.0	1.0	69.3				
1.8	18	1.0	33.3	1.0	33.3	1.0	57.7				
2.4	21	1.0	28.5	1.0	28.5	1.0	49.5				
3.1	24	1.0	25.0	1.0	25.0	1.0	43.3	1.0	45.0		
4.0	27	1.0	22.2	1.0	22.2	1.0	38.5	1.0	40.0		
4.9	30	1.1	20.0	1.1	20.0	1.0	34.6	1.0	36.0		
5.9	33			1.2	16.6	1.0	28.8	1.0	30.0		
7.1	36			1.2	16.6	1.0	28.8	1.0	30.0		
9.6	42					1.0	50.0	1.0	52.3		
12.6	48					1.0	43.7	1.0	45.8	1.0	47.2
15.9	54					1.0	38.8	1.0	40.7	1.0	41.9
19.6	60							1.0	36.6	1.0	37.7
23.8	66									1.0	34.3
28.3	72									1.0	31.4

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-03

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

Plot Date: 8/30/2024 10:08 AM
 Plot Path: C:\Users\jrc\OneDrive - Centerville Welcome Center\Documents\715-03-034-C1\715-03-034-C1-03-034-C1.dwg Aug 20, 2024 - 10:08 AM

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PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA

IDOA

INDIANA DEPARTMENT OF TRANSPORTATION

Revisions:

Project Number: 89006007-23-034-C1
 Requisition Number:
 Account Number:
 Designer: IID Drawing Date: 8/30/2024
 Drafter: JRC Drawing Scale: N/A
 DAPW Approval:
 Client Approval:
 Reference Number: 1394
 Building Reference:
 Drawing Number: CS123
 Sheet: 101 of 140

**6" x 1" CORRUGATED ALUMINUM ALLOY PIPE (LOCK SEAM)
HEIGHT OF COVER LIMITS (ft)**

AREA (sf)	DIAMETER (in.)	THICKNESS (in.)									
		0.060		0.075		0.105		0.135		0.164	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
12.6	48	1.0	38.7	1.0	48.4	1.0	67.8	1.0	87.2	1.0	100.0
15.9	54	1.0	34.4	1.0	43.0	1.0	60.2	1.0	77.5	1.0	94.8
19.6	60	1.0	31.0	1.0	38.7	1.0	54.2	1.0	69.7	1.0	85.3
23.8	66	1.0	28.1	1.0	35.2	1.0	49.3	1.0	63.4	1.0	77.5
28.3	72			1.0	32.2	1.0	45.2	1.0	58.1	1.0	71.1
33.2	78			1.0	29.7	1.0	41.7	1.0	53.6	1.0	65.6
38.5	84					1.0	38.7	1.0	49.8	1.0	60.9
44.2	90					1.0	36.1	1.0	46.5	1.0	56.8
50.3	96							1.0	43.6	1.0	53.3
56.7	102							1.1	40.0	1.1	49.0
63.6	108									1.1	44.5
70.9	114									1.2	40.3

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE HEIGHT OF COVER LIMITS

SEPTEMBER 2017

STANDARD DRAWING NO. E 715-PHCL-08

/s/ Elizabeth W. Phillips 03/27/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

**6" x 1" CORRUGATED ALUMINUM ALLOY PIPE (RIVETED)
HEIGHT OF COVER LIMITS (ft)**

AREA (sf)	DIAMETER (in.)	THICKNESS (in.)									
		0.060		0.075		0.105		0.135		0.164	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
12.6	48	1.0	22.2	1.0	26.3	1.0	38.7	1.0	49.8	1.0	60.4
15.9	54	1.1	19.7	1.0	23.4	1.0	34.4	1.0	44.3	1.0	53.7
19.6	60	1.2	17.7	1.1	21.1	1.0	31.0	1.0	39.8	1.0	48.3
23.8	66	1.3	16.1	1.1	19.1	1.0	28.1	1.0	36.2	1.0	43.9
28.3	72			1.2	17.5	1.0	25.8	1.0	33.2	1.0	40.2
33.2	78			1.3	16.2	1.0	23.8	1.0	30.6	1.0	37.1
38.5	84					1.0	22.1	1.0	28.4	1.0	34.5
44.2	90					1.1	20.6	1.0	26.5	1.0	32.2
50.3	96							1.0	24.9	1.0	30.2
56.7	102							1.1	23.4	1.1	28.4
63.6	108									1.1	26.8
70.9	114									1.2	25.4

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE HEIGHT OF COVER LIMITS

SEPTEMBER 2017

STANDARD DRAWING NO. E 715-PHCL-09

/s/ Elizabeth W. Phillips 03/27/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

**2 2/3" x 1/2" CORRUGATED STEEL PIPE (LOCK SEAM)
HEIGHT OF COVER LIMITS (ft)**

AREA (sf)	DIAMETER (in.)	THICKNESS (in.)									
		0.064		0.079		0.109		0.138		0.168	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
0.8	12	1.0	100.0	1.0	100.0						
1.2	15	1.0	100.0	1.0	100.0	1.0	100.0				
1.8	18	1.0	100.0	1.0	100.0	1.0	100.0				
2.4	21	1.0	100.0	1.0	100.0	1.0	100.0				
3.1	24	1.0	100.0	1.0	100.0	1.0	100.0				
4.0	27	1.0	94.7	1.0	100.0	1.0	100.0				
4.9	30	1.0	85.2	1.0	100.0	1.0	100.0	1.0	100.0		
5.9	33	1.0	71.0	1.0	88.7	1.0	100.0	1.0	100.0		
7.1	36	1.0	71.0	1.0	88.7	1.0	100.0	1.0	100.0	1.0	100.0
9.6	42	1.0	60.8	1.0	76.0	1.0	100.0	1.0	100.0	1.0	100.0
12.6	48	1.0	53.2	1.0	66.5	1.0	93.2	1.0	100.0	1.0	100.0
15.9	54			1.0	59.1	1.0	82.8	1.0	100.0	1.0	100.0
19.6	60					1.0	87.8	1.0	95.9	1.0	100.0
23.8	66							1.0	87.2	1.0	100.0
28.3	72							1.0	79.9	1.0	97.0
33.2	78									1.0	86.7
38.5	84									1.0	75.1

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE HEIGHT OF COVER LIMITS

SEPTEMBER 2017

STANDARD DRAWING NO. E 715-PHCL-10

/s/ Elizabeth W. Phillips 03/27/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

**2 2/3" x 1/2" CORRUGATED STEEL PIPE (RIVETED)
HEIGHT OF COVER LIMITS (ft)**

AREA (sf)	DIAMETER (in.)	THICKNESS (in.)									
		0.064		0.079		0.109		0.138		0.168	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
0.8	12	1.0	92.7	1.0	100.0						
1.2	15	1.0	74.2	1.0	80.8	1.0	100.0				
1.8	18	1.0	61.8	1.0	67.4	1.0	86.6				
2.4	21	1.0	53.0	1.0	57.7	1.0	74.2				
3.1	24	1.0	46.3	1.0	50.5	1.0	65.0				
4.0	27	1.0	41.2	1.0	44.9	1.0	57.7				
4.9	30	1.0	37.1	1.0	40.4	1.0	52.0	1.0	54.4		
5.9	33	1.0	30.9	1.0	33.7	1.0	43.3	1.0	45.3		
7.1	36	1.0	30.9	1.0	33.7	1.0	43.3	1.0	45.3	1.0	47.4
9.6	42	1.0	34.2	1.0	47.3	1.0	74.2	1.0	77.7	1.0	81.4
12.6	48	1.0	30.0	1.0	41.3	1.0	65.0	1.0	68.0	1.0	71.2
15.9	54			1.0	36.7	1.0	57.7	1.0	60.4	1.0	63.3
19.6	60					1.0	52.0	1.0	54.4	1.0	57.0
23.8	66							1.0	49.4	1.0	51.8
28.3	72							1.0	45.3	1.0	47.5
33.2	78									1.0	43.8
38.5	84									1.0	40.7

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE HEIGHT OF COVER LIMITS

SEPTEMBER 2017

STANDARD DRAWING NO. E 715-PHCL-11

/s/ Elizabeth W. Phillips 03/27/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

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PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
CENTERVILLE WELCOME CENTER
CENTERVILLE, INDIANA



Revisions:

Project Number:	89006007-23-034-C1
Requisition Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS125
Sheet:	103 of 140

5" x 1" CORRUGATED STEEL PIPE (LOCK SEAM) HEIGHT OF COVER LIMITS (ft)												
AREA (sq ft)	DIAMETER (in.)	THICKNESS (in.)										
		0.064		0.079		0.109		0.138		0.168		
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
7.1	36			1.0	90.9	1.0	100.0					
9.6	42			1.0	77.9	1.0	100.0					
12.6	48	1.0	54.5	1.0	68.2	1.0	95.5	1.0	100.0			
15.9	54	1.0	48.5	1.0	60.6	1.0	84.9	1.0	100.0			
19.6	60	1.0	43.6	1.0	54.5	1.0	76.4	1.0	98.3			
23.8	66	1.0	39.7	1.0	49.6	1.0	69.5	1.0	89.4			
28.3	72	1.0	36.3	1.0	45.4	1.0	63.7	1.0	81.9	1.0	100.0	
33.2	78	1.0	33.5	1.0	41.9	1.0	58.8	1.0	75.6	1.0	92.4	
38.5	84	1.0	31.1	1.0	38.9	1.0	54.6	1.0	70.2	1.0	85.8	
44.2	90	1.0	29.1	1.0	36.3	1.0	50.9	1.0	65.5	1.0	80.1	
50.3	96			1.0	34.1	1.0	47.7	1.0	61.4	1.0	75.1	
56.7	102			1.1	32.0	1.1	44.9	1.1	57.8	1.1	70.7	
63.6	108					1.1	42.4	1.1	54.6	1.1	66.7	
70.9	114					1.2	40.2	1.2	51.7	1.2	63.2	
78.5	120					1.3	38.2	1.3	49.1	1.3	60.1	
86.6	126							1.3	46.8	1.3	57.2	
95.0	132								1.4	44.7	1.4	54.6
103.9	138								1.4	42.7	1.4	52.2
113.1	144									1.5	50.0	

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-16

REGISTERED
 No. 10200124
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

5" x 1" CORRUGATED STEEL PIPE-ARCH (RIVETED OR LOCK SEAM) HEIGHT OF COVER LIMITS (ft)															
CORNER RADIUS (in.)	SPAN (in.)	RISE (in.)	AREA (sq ft)	THICKNESS (in.)											
				0.064		0.079		0.109		0.138		0.168			
				MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.		
8 (Min.) 18 3/4 (Typ.)	60	46	15.6					1.1	20.8	1.1	20.8				
9 (Min.) 20 3/4 (Typ.)	66	51	19.3					1.1	20.9	1.1	20.9				
12 (Min.) 22 7/8 (Typ.)	73	55	23.2					1.1	20.8	1.1	20.8				
14 (Min.) 20 7/8 (Typ.)	81	59	27.4					1.2	17.1	1.2	17.1	1.2	17.1		
14 (Min.) 22 5/8 (Typ.)	87	63	32.1					1.2	17.3	1.2	17.3	1.2	17.3		
16 (Min.) 24 3/8 (Typ.)	95	67	37.0					1.2	17.1	1.2	17.1	1.2	17.1		
16 (Min.) 26 1/8 (Typ.)	103	71	42.4					1.2	16.9	1.2	16.9	1.2	16.9		
18 (Min.) 27 3/4 (Typ.)	112	75	48.0					1.3	16.5	1.3	16.5	1.3	16.5		
18 (Min.) 29 1/2 (Typ.)	117	79	54.2					1.2	16.8	1.2	16.8	1.2	16.8		
18 (Min.) 31 1/4 (Typ.)	128	83	60.5							1.3	16.2	1.3	16.2		
18 (Min.) 33 (Typ.)	137	87	67.4							1.3	16.0	1.3	16.0		
18 (Min.) 34 3/4 (Typ.)	142	91	74.5									1.3	16.3		

NOTES:
 1. Dual entries in the "Corner Radius" column such as 8 (Min.), 18 3/4 (Typ.), represent the following:
 8 = Minimum corner radius allowed by AASHTO M 196
 18 3/4 = Corner radius typically available
 2. The tabulated cover heights reflect pipe-arches with typically available corner radii. If a pipe-arch with corner radii other than what is typically available is to be used, a specific design shall be performed to verify structural adequacy.

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-17

REGISTERED
 No. 10200124
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

3/4" x 3/4" x 7 1/2" SPIRAL RIB STEEL PIPE HEIGHT OF COVER LIMITS (ft)						
DIAMETER (in.)	THICKNESS (in.)					
	0.064		0.079		0.109	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
12	1.3	100.0	1.3	100.0	1.3	100.0
15	1.3	100.0	1.3	100.0	1.3	100.0
18	1.3	68.0	1.3	72.0	1.3	100.0
21	1.3	58.0	1.3	62.0	1.3	100.0
24	1.3	51.0	1.3	60.0	1.3	100.0
30	1.3	41.0	1.3	58.0	1.3	97.0
36	1.3	34.0	1.3	48.0	1.3	81.0
42	1.3	29.0	1.3	41.0	1.3	69.0
48	1.3	26.0	1.3	36.0	1.3	61.0
54	1.3	23.0	1.3	32.0	1.3	54.0
60			1.3	29.0	1.3	49.0
66			1.3	26.0	1.3	44.0
72			1.3	24.0	1.3	40.0
78					1.3	37.0
84					1.3	35.0
90					2.3	32.0
96					2.3	30.0
102					2.8	29.0
108					2.8	27.0

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-18

REGISTERED
 No. 10200124
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

NON-REINFORCED CONCRETE PIPE CLASS 3 HEIGHT OF COVER LIMITS (ft)		
DIAMETER (in.)	MINIMUM (ft)	MAXIMUM (ft)
12	1.3	14.1
15	1.4	13.1
18	1.5	12.8
21	1.5	13.4
24	1.5	13.5
27	1.6	12.1
30	1.8	10.7
33	1.9	9.8
36	2.1	9.0

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-19

REGISTERED
 No. 10200124
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

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PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA

IDOA

INDIANA DEPARTMENT OF TRANSPORTATION

Revisions:

Project Number:	89006007-23-034-C1		
Requisition Number:			
Account Number:			
Designer:	ID	Drawing Date:	8/30/2024
Drafter:	JRC	Drawing Scale:	N/A
DAPW Approval:			
Client Approval:			
Reference Number:	1394		
Building Reference:			
Drawing Number:	CS127		
Sheet:	105 of 140		

**CORRUGATED POLYETHYLENE PIPE TYPE S
HEIGHT OF COVER LIMITS (ft)**

PAY ITEM DIAMETER (in.)	NOMINAL DIAMETER (in.)	MINIMUM (ft)	MAXIMUM (ft)
12	12	2.0	22.0
15	15	2.0	22.0
18	18	2.0	20.0
21	21	2.0	19.0
24	24	2.0	19.0
30	30	2.0	17.0
36	36	2.0	17.0
42	42	2.0	17.0
48	48	2.0	15.0

NOTES:

- The pay item diameter reflects the minimum required inside diameter.
- Because the nominal size of smooth wall polyethylene pipe is based on the outside diameter, different dimension ratios may require different nominal diameters to satisfy the pay item diameter requirements.

**SMOOTH WALL POLYETHYLENE PIPE
HEIGHT OF COVER LIMITS (ft)**

PAY ITEM DIAMETER (in.)	NOMINAL DIAMETER (in.)	DIMENSION RATIO (NOMINAL DIAMETER / WALL THICKNESS)							
		26		21		17		11	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
12	13	2.0	40.0	2.0	57.0				
12	14					2.0	81.0		
15	18	2.0	40.0	2.0	57.0	2.0	81.0		
18	20	2.0	40.0	2.0	57.0	2.0	81.0		
18	22					2.0	81.0	2.0	100.0
21	24	2.0	40.0	2.0	57.0	2.0	81.0		
24	28	2.0	40.0	2.0	57.0	2.0	81.0		
27	32	2.0	40.0	2.0	57.0	2.0	81.0		
30	34	2.0	40.0	2.0	57.0	2.0	81.0		
36	42	2.0	40.0	2.0	57.0	2.0	81.0		

INDIANA DEPARTMENT OF TRANSPORTATION
 PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-20

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

**PROFILE WALL (RIBBED) POLYETHYLENE PIPE
HEIGHT OF COVER LIMITS (ft)**

PAY ITEM DIAMETER (in.)	NOMINAL DIAMETER (in.)	MINIMUM (ft)	MAXIMUM (ft)
18	18	2.0	18.0
21	21	2.0	22.0
24	24	2.0	21.0
27	27	2.0	24.0
30	30	2.0	22.0
33	33	2.0	23.0
36	36	2.0	25.0

**PROFILE WALL (CLOSED) POLYETHYLENE PIPE
HEIGHT OF COVER LIMITS (ft)**

PAY ITEM DIAMETER (in.)	NOMINAL DIAMETER (in.)	MINIMUM (ft)	MAXIMUM (ft)
18	18	2.0	47.0
21	21	2.0	38.0
24	24	2.0	42.0
27	27	2.0	40.0
30	23	2.2	38.0
33	33	2.4	45.0
36	36	2.6	30.0
42	42	3.0	29.0
48	48	3.5	30.0

NOTES:

- The pay item diameter reflects the minimum required inside diameter.

INDIANA DEPARTMENT OF TRANSPORTATION
 PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-21

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

**PROFILE WALL POLYVINYL CHLORIDE PIPE
HEIGHT OF COVER LIMITS (ft)**

DIAMETER (in.)	MINIMUM (ft)	MAXIMUM (ft)
12	2.0	20.0
15	2.0	20.0
18	2.0	20.0
21	2.0	20.0
24	2.0	20.0
30	2.0	18.0
36	2.0	18.0
42	2.0	17.0
48	2.0	15.0

**CORRUGATED POLYPROPYLENE PIPE
HEIGHT OF COVER LIMITS (ft)**

DIAMETER (in.)	MINIMUM (ft)	MAXIMUM (ft)
12	2.0	28.0
15	2.0	28.0
18	2.0	25.0
21	2.0	23.0
24	2.0	23.0
30	2.2	19.0
36	2.6	23.0
42	3.1	22.0
48	3.5	21.0

NOTE:

- The pay item diameter reflects the minimum required inside diameter.

**SMOOTH WALL POLYVINYL CHLORIDE PIPE
HEIGHT OF COVER LIMITS (ft)**

PAY ITEM DIAMETER (in.)	NOMINAL DIAMETER (in.)	MINIMUM (ft)	MAXIMUM (ft)
12	12	2.0	64.0
15	15	2.0	64.0
18	18	2.0	61.0
21	21	2.0	61.0
24	24	2.0	61.0
27	27	2.0	61.0

INDIANA DEPARTMENT OF TRANSPORTATION
 PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-22

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

**VITRIFIED CLAY PIPE, EXTRA STRENGTH
HEIGHT OF COVER LIMITS (ft)**

DIAMETER (in.)	MINIMUM (ft)	MAXIMUM (ft)
12	1.2	16.0
15	1.4	14.0
18	1.4	13.0
21	1.4	14.0
24	1.4	15.0
27	1.5	14.0
30	1.6	13.0
33	1.5	13.0
36	1.5	14.0

INDIANA DEPARTMENT OF TRANSPORTATION
 PIPE HEIGHT OF COVER LIMITS
 SEPTEMBER 2017
 STANDARD DRAWING NO. E 715-PHCL-23

/s/ Elizabeth W. Phillips 03/27/17
 DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
 CHIEF ENGINEER DATE

Plot Saved By: pmdm@w.com Printed: 8/30/2024 11:12:23 am
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Certified by: ENGINEER



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA



Revisions:

Project Number:	89006007-23-034-C1
Requisition Number:	
Account Number:	
Designer:	JID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS128
Sheet:	106 of 140

REQUIREMENTS FOR CORRUGATED STEEL PIPE THICKNESS AND PROTECTION AT NON-ABRASIVE SITES

pH	Steel Conduit Type							
	≤ 4.0	4.5	5.0	5.5	6.0	6.5	≥ 7.0	
Thickness required for 50-year Design Service Life				0.168	0.168	0.138	0.109	Zinc-Coated Corrugated Steel Pipe Zinc-Coated Corrugated Steel Pipe-Arch
			0.138	0.109	0.109	0.079	0.064	Zinc-Coated Corrugated and Steel Pipe w/Paved Invert Zinc-Coated Corrugated Steel Pipe-Arch w/Paved Invert Fully Bituminous-Coated and Lined Corrugated Steel Pipe Fully Bituminous-Coated and Lined Corrugated Steel Pipe-Arch
			0.138	0.109	0.109	0.079	0.064	Aluminum-Coated Type 2 Corrugated Steel Pipe Aluminum-Coated Type 2 Corrugated Steel Pipe-Arch
	0.109	0.109	0.079	0.064	0.064	0.064	0.064	Polymer Precoated Galvanized Corrugated Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe-Arch
	0.111*	0.111*	0.111*	0.170	0.111	0.111	0.111	Structural Plate Steel Pipe Structural Plate Steel Pipe-Arch
							0.109	Zinc-Coated Spiral Ribbed Steel Pipe
				0.109	0.109	0.079	0.064	Zinc-Coated Spiral Ribbed Steel Pipe w/ Paved Invert
				0.109	0.109	0.079	0.064	Aluminum-Coated Type 2 Spiral Ribbed Steel Pipe
	0.109	0.109	0.079	0.064	0.064	0.064	0.064	Polymer Precoated Galvanized Spiral Ribbed Steel Pipe

* Concrete field paving required.

pH	Steel Conduit Type								
	≤ 4.0	4.5	5.0	5.5	6.0	6.5	≥ 7.0		
Thickness required for 75-year Design Service Life						0.168	0.138	Zinc-Coated Corrugated and Spiral Ribbed Steel Pipe Zinc-Coated Corrugated Steel Pipe-Arch	
					0.168	0.168	0.138	0.109	Zinc-Coated Corrugated Steel Pipe w/Paved Invert Zinc-Coated Corrugated Steel Pipe-Arch w/Paved Invert Fully Bituminous-Coated and Lined Corrugated Steel Pipe Fully Bituminous-Coated and Lined Corrugated Steel Pipe-Arch
							0.138	0.109	Aluminum-Coated Type 2 Corrugated Steel Pipe Aluminum-Coated Type 2 Corrugated Steel Pipe-Arch
				0.138	0.138	0.109	0.109	0.109	Polymer Precoated Galvanized Corrugated Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe-Arch
	0.111*	0.111*	0.111*	0.218	0.111	0.111	0.111	0.111	Structural Plate Steel Pipe Structural Plate Steel Pipe-Arch
							0.109	0.109	Zinc-Coated Spiral Ribbed Steel Pipe w/ Paved Invert
							0.109	0.109	Aluminum-Coated Type 2 Spiral Ribbed Steel Pipe
							0.109	0.109	Polymer Precoated Galvanized Spiral Ribbed Steel Pipe

* Concrete field paving required.

NOTE:

1. See Standard Drawing E 715-PSLC-03 for General Notes.

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE SERVICE LIFE CRITERIA
NON-ABRASIVE SITES
SEPTEMBER 2017
STANDARD DRAWING NO. E 715-PSLC-01

REGISTERED PROFESSIONAL ENGINEER
No. 10200124
STATE OF INDIANA

/s/ Elizabeth W. Phillips 03/31/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

REQUIREMENTS FOR CORRUGATED STEEL PIPE THICKNESS AND PROTECTION AT ABRASIVE SITES

pH	Steel Conduit Type								
	≤ 4.0	4.5	5.0	5.5	6.0	6.5	≥ 7.0		
Thickness required for 50-year Design Service Life				0.168	0.168	0.138	0.109	Zinc-Coated Corrugated Steel Pipe w/Paved Invert Zinc-Coated Corrugated Steel Pipe-Arch w/Paved Invert Fully Bituminous-Coated and Lined Corrugated Steel Pipe Fully Bituminous-Coated and Lined Corrugated Steel Pipe-Arch	
			0.138	0.109	0.109	0.079	0.064	Aluminum-Coated Type 2 Corrugated Steel Pipe w/Paved Invert Aluminum-Coated Type 2 Corrugated Steel Pipe-Arch w/Paved Invert	
			0.138	0.109	0.109	0.079	0.064	Polymer Precoated Galvanized Corrugated Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe-Arch	
	0.109	0.109	0.079	0.064	0.064	0.064	0.064	Structural Plate Steel Pipe w/Concrete Field Paving Structural Plate Steel Pipe-Arch w/Concrete Field Paving	
				0.170	0.111	0.111	0.111	0.109	Zinc-Coated Spiral Ribbed Steel Pipe w/ Paved Invert
				0.109	0.109	0.079	0.064	0.064	Aluminum-Coated Type 2 Spiral Ribbed Steel Pipe w/ Paved Invert
	0.109	0.109	0.079	0.064	0.064	0.064	0.064	Polymer Precoated Galvanized Spiral Ribbed Steel Pipe	

NOTE:

1. See Standard Drawing E 715-PSLC-03 for General Notes.

pH	Steel Conduit Type								
	≤ 4.0	4.5	5.0	5.5	6.0	6.5	≥ 7.0		
Thickness required for 75-year Design Service Life						0.168	0.138	Zinc-Coated Corrugated Steel Pipe w/Paved Invert Zinc-Coated Corrugated Steel Pipe-Arch w/Paved Invert Fully Bituminous-Coated and Lined Corrugated Steel Pipe Fully Bituminous-Coated and Lined Corrugated Steel Pipe-Arch	
						0.138	0.109	Aluminum-Coated Type 2 Corrugated Steel Pipe w/Paved Invert Aluminum-Coated Type 2 Corrugated Steel Pipe-Arch w/Paved Invert	
					0.138	0.138	0.109	0.109	Polymer Precoated Galvanized Corrugated and Steel Pipe Polymer Precoated Galvanized Corrugated Steel Pipe-Arch
				0.218	0.111	0.111	0.111	0.111	Structural Plate Steel Pipe w/Concrete Field Paving Structural Plate Steel Pipe-Arch w/Concrete Field Paving
							0.109	0.109	Aluminum-Coated Type 2 Spiral Ribbed Steel Pipe w/ Paved Invert
							0.109	0.109	Polymer Precoated Galvanized Spiral Ribbed Steel Pipe

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE SERVICE LIFE CRITERIA
ABRASIVE SITES
SEPTEMBER 2017
STANDARD DRAWING NO. E 715-PSLC-02

REGISTERED PROFESSIONAL ENGINEER
No. 10200124
STATE OF INDIANA

/s/ Elizabeth W. Phillips 03/31/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

GENERAL NOTES:

- 1. "X" entries in the table indicate that a thickness which satisfies the required design service life is not available.
- 2. The tabulated plate thickness for structural plate steel pipe and pipe-arches reflects the required thickness for the top and side plates. If the tabulated plate thickness is less than 0.280 in. the bottom plates shall be of the next greater available thickness.
- 3. Corrugated aluminum alloy pipe and pipe-arches and aluminum alloy structural plate pipe and pipe-arches are acceptable with the minimum thickness required to satisfy cover conditions for all non-abrasive sites with a structure pH ≥ 5.0.
- 4. Corrugated aluminum alloy pipe and pipe-arches with bituminous paved invert and aluminum alloy structural plate pipe and pipe-arches with concrete field paving are acceptable with the minimum thickness required to satisfy cover conditions for all abrasive sites with a structure pH ≥ 5.0.
- 5. Service life criteria apply only to reinforced concrete, corrugated metal, and structural plate metal pipe. Other materials which conform to the designated pipe type and height of cover parameters are acceptable for installation.
- 6. Service life criteria do not apply to Type 4 pipe.

REQUIREMENTS FOR REINFORCED CONCRETE PIPE PROTECTION

Pipe Slope	Minimum pH to Attain Design Service Life	
	50 Year	75 Year
Less than 3%	4.0	4.5
3% to 10%	4.5	5.0
Greater than 10%	5.0	5.5

For a structure pH lower than the minimums listed above, reinforced concrete pipe shall not be used.

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE SERVICE LIFE CRITERIA
NON-ABRASIVE SITES
SEPTEMBER 2017
STANDARD DRAWING NO. E 715-PSLC-03

REGISTERED PROFESSIONAL ENGINEER
No. 10200124
STATE OF INDIANA

/s/ Elizabeth W. Phillips 03/31/17
DESIGN STANDARDS ENGINEER DATE

/s/ John Leckie 04/10/17
CHIEF ENGINEER DATE

SHEET NO.	SUBJECT
1	Underdrain Drawing Index and General Notes
2	Underdrain Details
3	Underdrain Details
4	Outlet Protector, Type 1
5	Outlet Protector, Type 2
6	Outlet Protector, Type 3
7	Outlet Protector Rodent Screen

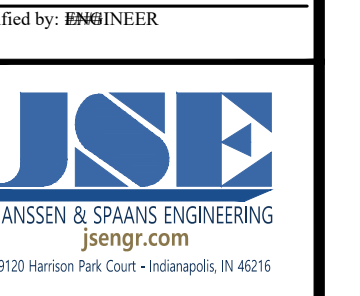
TYPE	CONCRETE, CLASS A (cys)	REINFORCING BARS (lb)	SODDING (cys)
1	0.8	29	4.9
2	0.6	25	4.0
3	0.3	22	3.2

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN DRAWING INDEX AND GENERAL NOTES
SEPTEMBER 2017
STANDARD DRAWING NO. E 718-UNDR-01

REGISTERED PROFESSIONAL ENGINEER
No. 10200124
STATE OF INDIANA

/s/ Elizabeth W. Phillips 08/26/16
DESIGN STANDARDS ENGINEER DATE

/s/ Mark A. Miller 09/19/16
CHIEF ENGINEER DATE

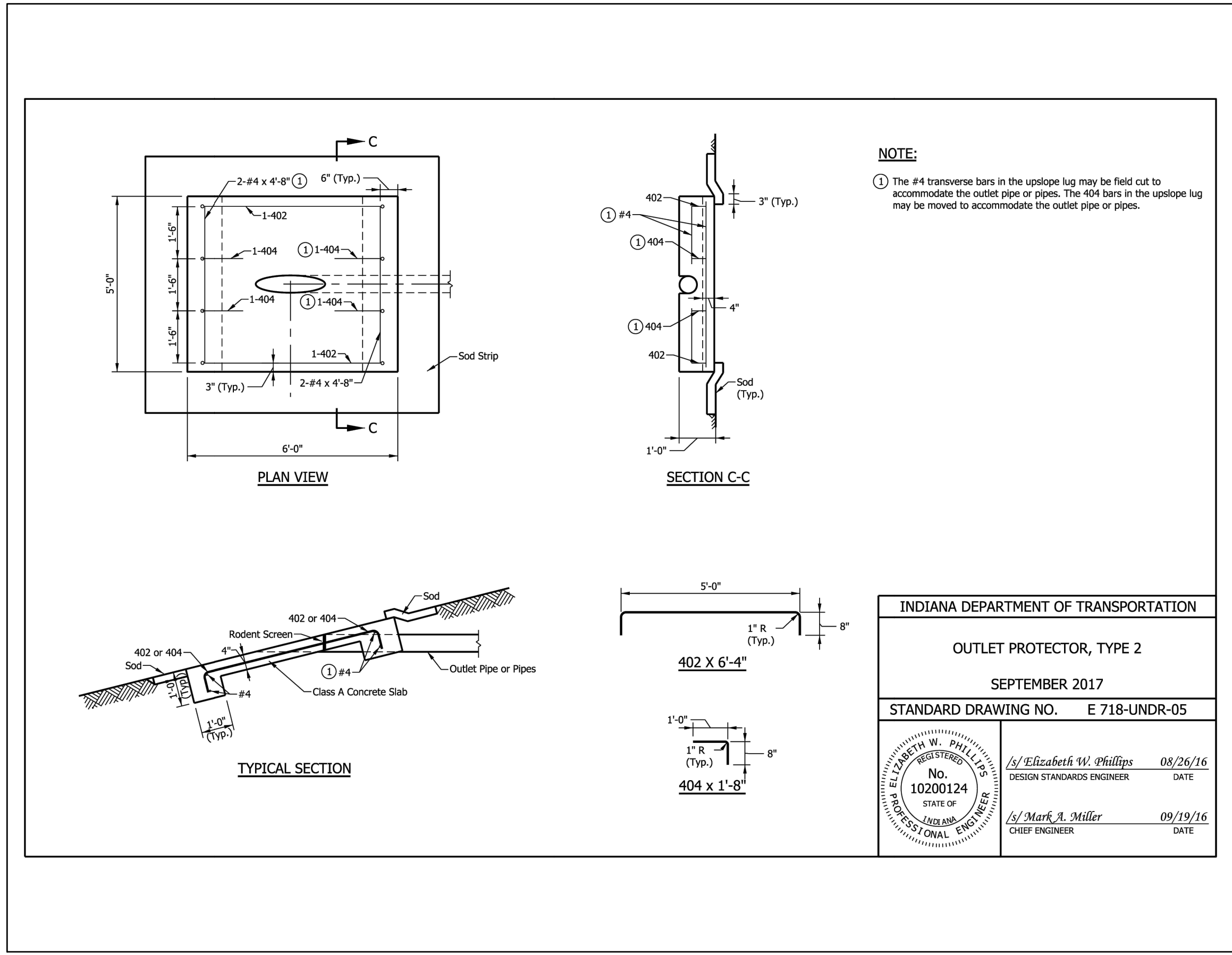
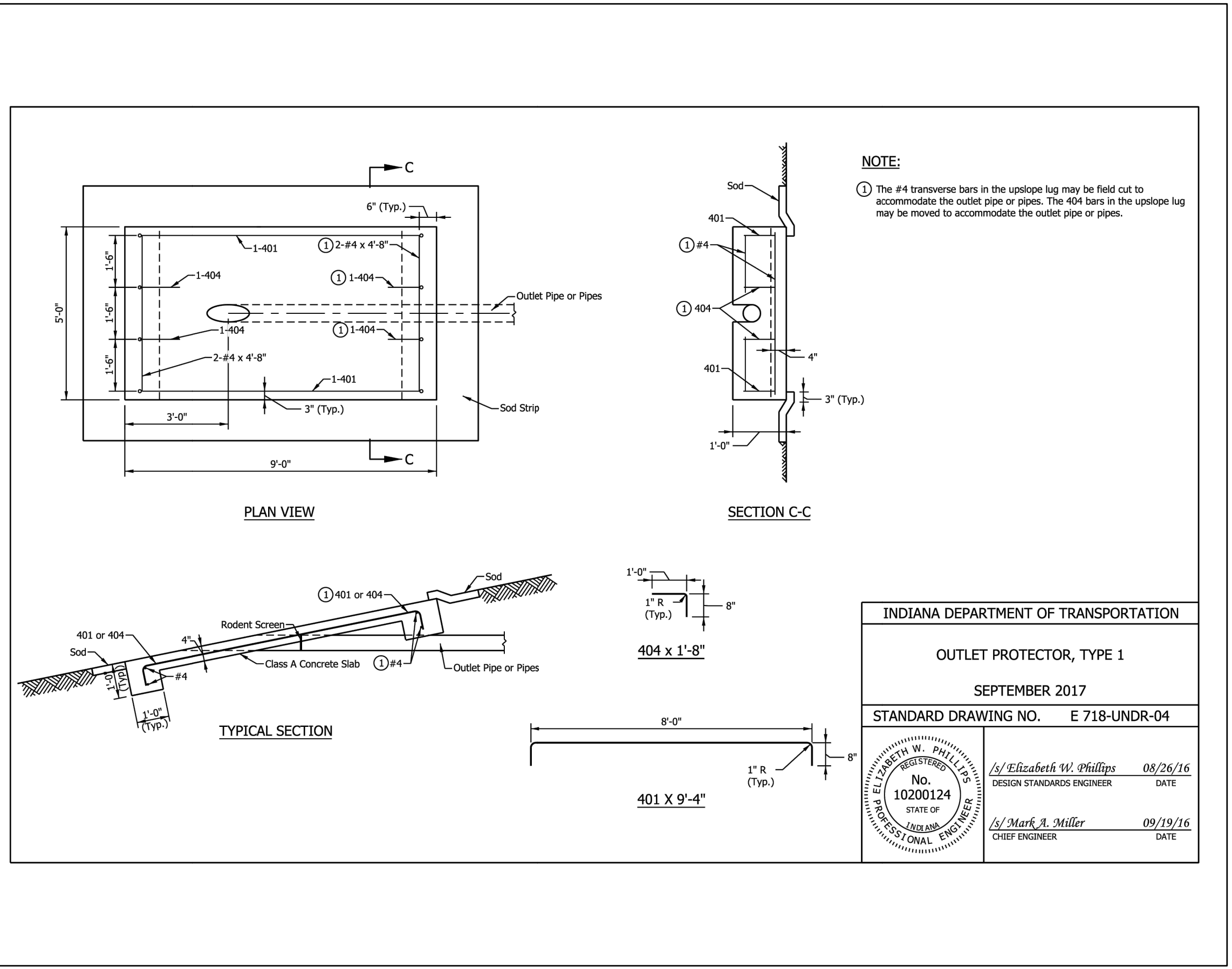
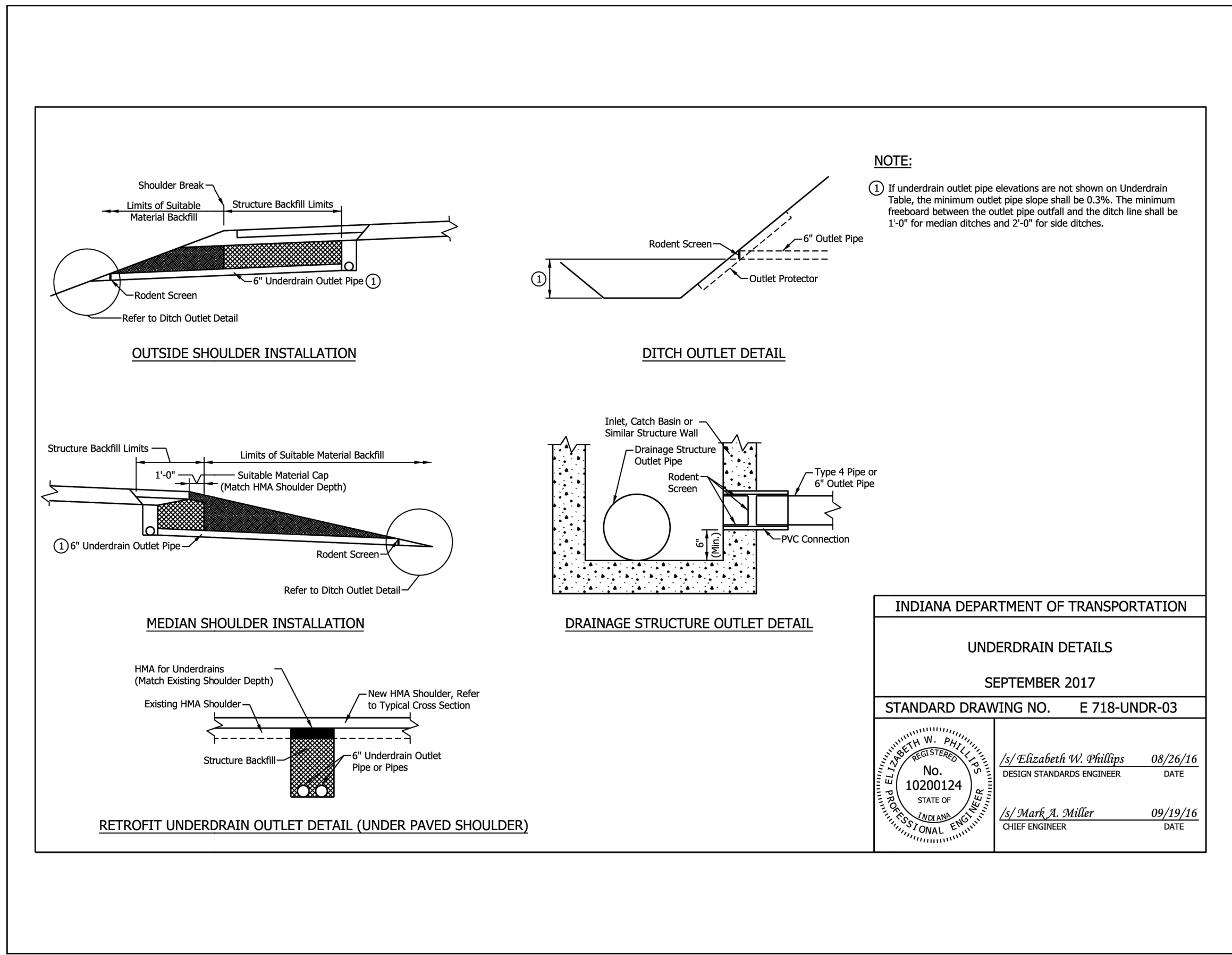
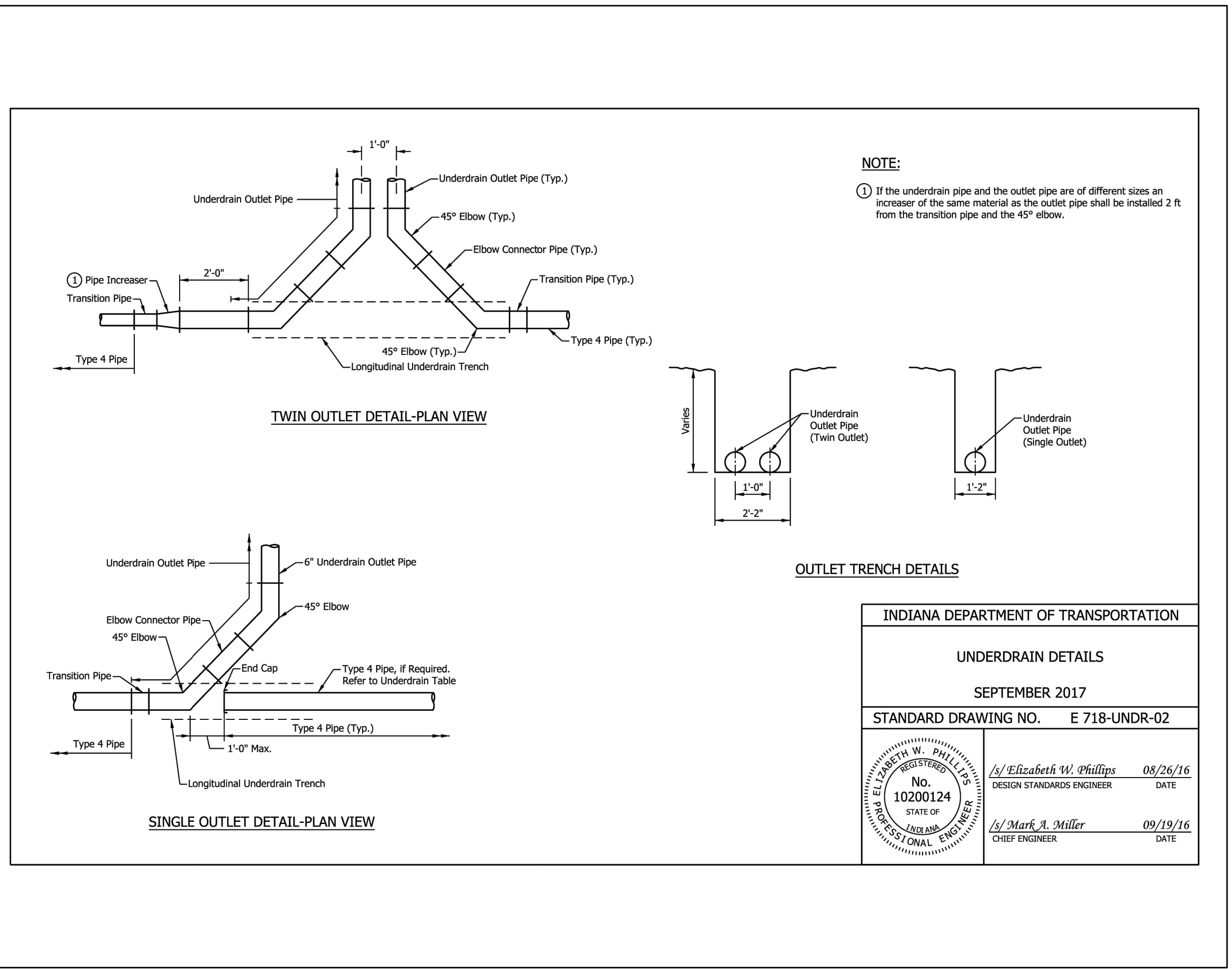


PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
CENTERVILLE WELCOME CENTER
CENTERVILLE, INDIANA



Revisions:

Project Number: 89006007-23-034-C1
Requisition Number:
Account Number:
Designer: IID Drawing Date: 8/30/2024
 Drafter: JRC Drawing Scale: N/A
DAPW Approval:
Client Approval:
Reference Number: 1394
Building Reference:
Drawing Number:
Sheet: CS130 of 140



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Certified by: ENGINEER
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 JANSSEN & SPAANS ENGINEERING
 jsengr.com
 9100 Horizon Park Court - Indianapolis, IN 46216

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 Indianapolis, Indiana

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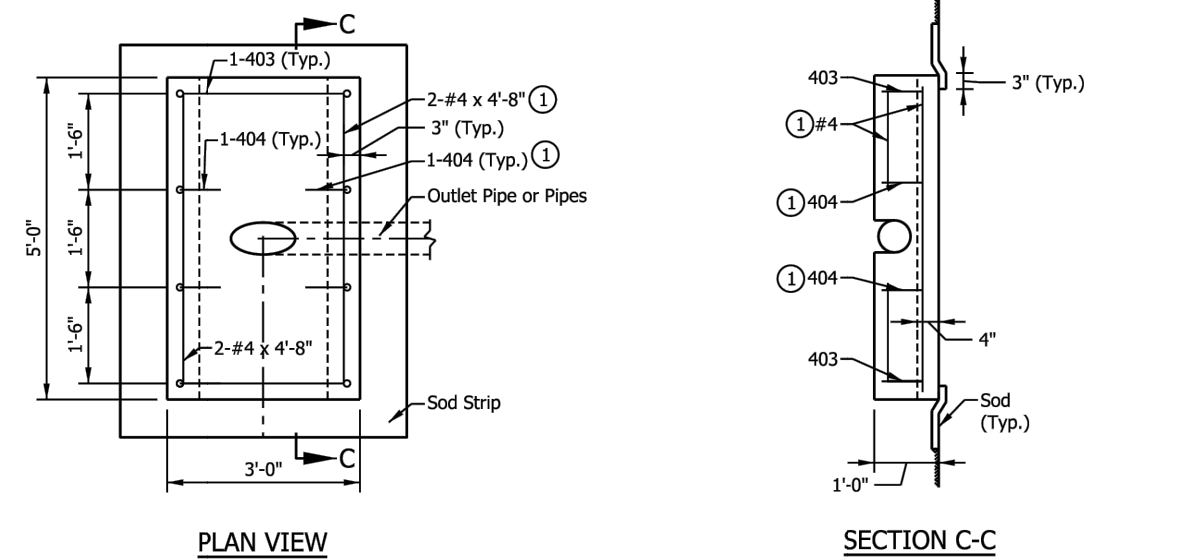
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 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA

IDOA

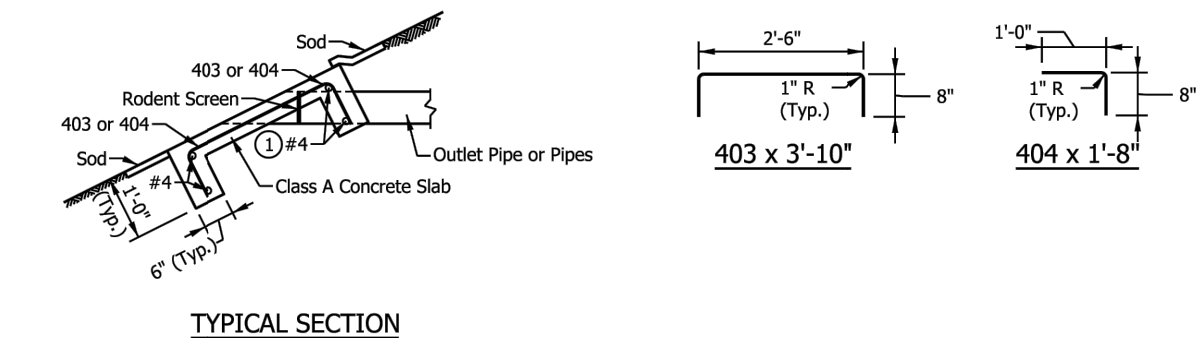
INDIANA DEPARTMENT OF TRANSPORTATION

Revisions:

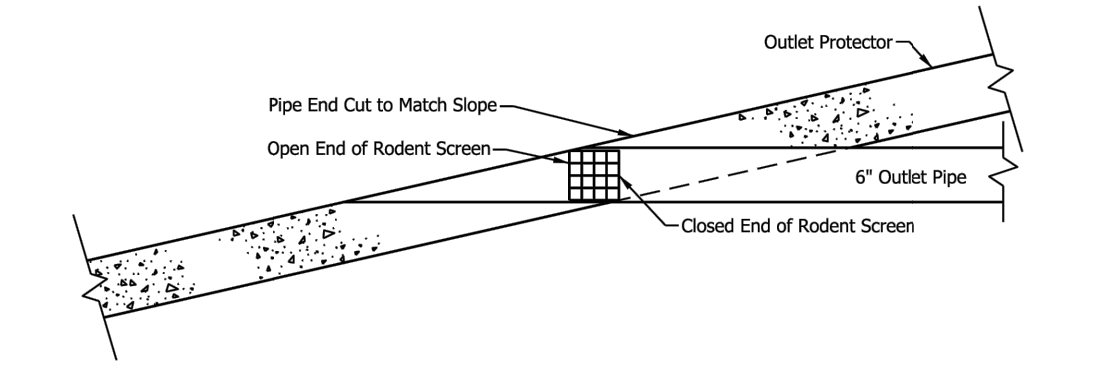
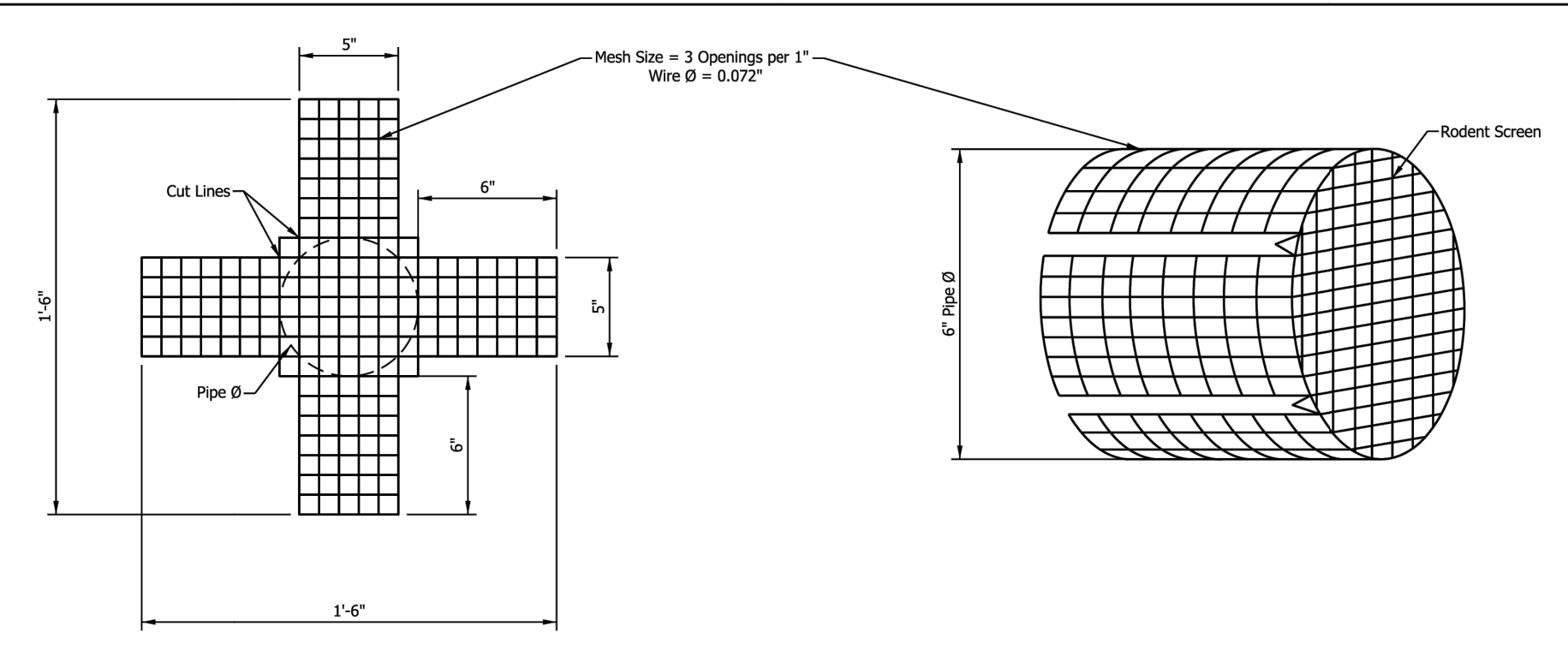
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Account Number:	
Designer:	ID
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Drafter:	JRC
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Drawing Number:	CS131
Sheet:	109 of 140



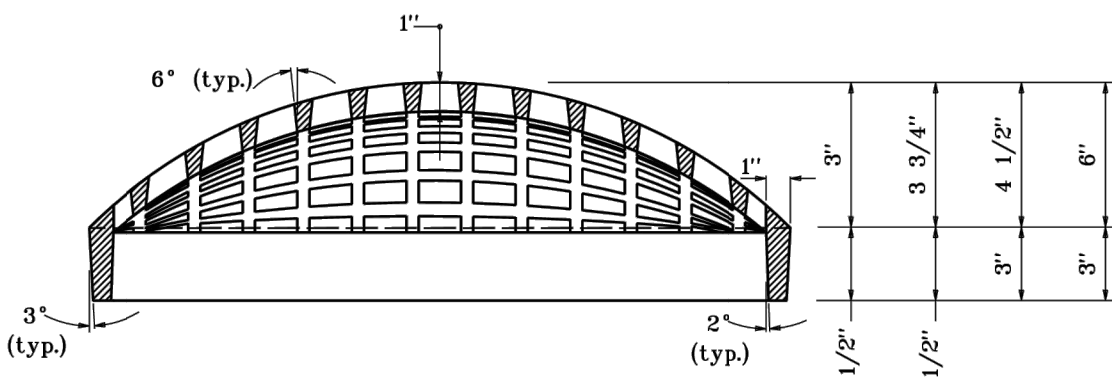
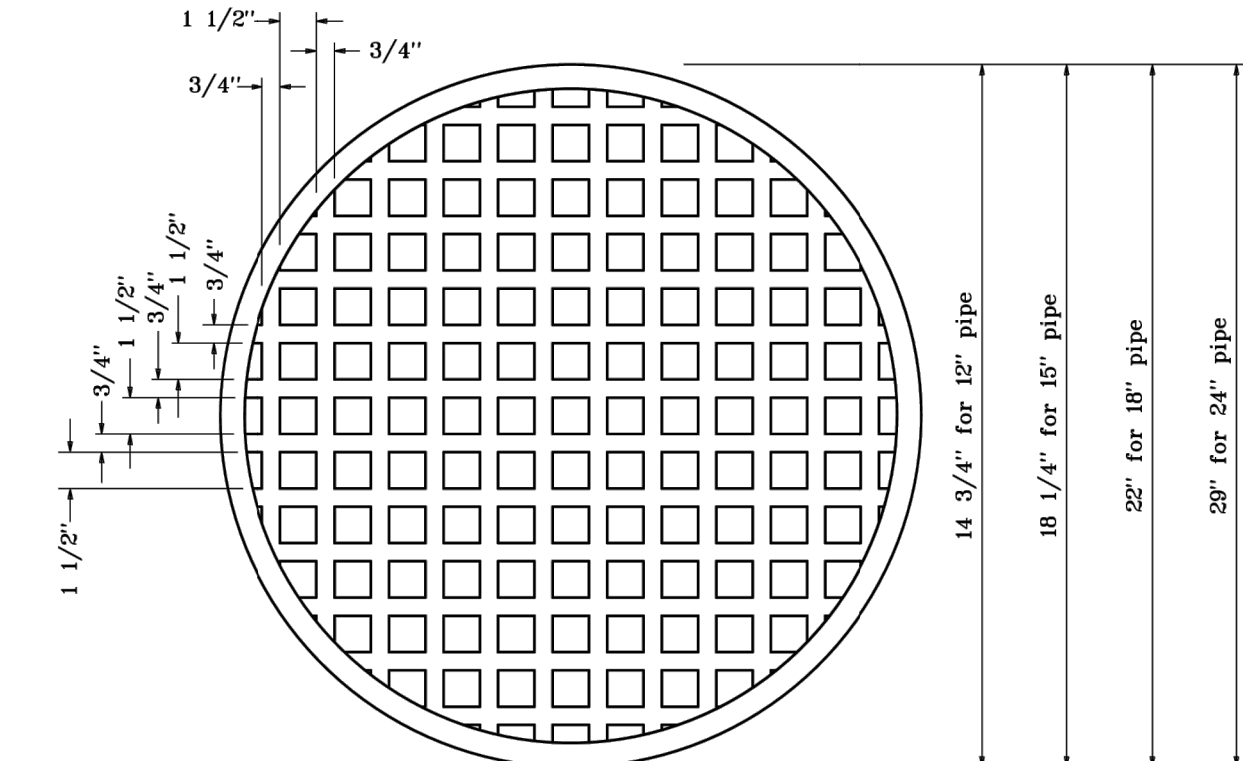
NOTE:
 ① The #4 transverse bars in the upslope lug may be field cut to accommodate the outlet pipe or pipes. The #4 bars in the upslope lug may be moved to accommodate the outlet pipe or pipes.



INDIANA DEPARTMENT OF TRANSPORTATION	
OUTLET PROTECTOR, TYPE 3	
SEPTEMBER 2017	
STANDARD DRAWING NO. E 718-UNDR-06	
	/s/ Elizabeth W. Phillips 08/26/16 DESIGN STANDARDS ENGINEER DATE
	/s/ Mark A. Miller 09/19/16 CHIEF ENGINEER DATE

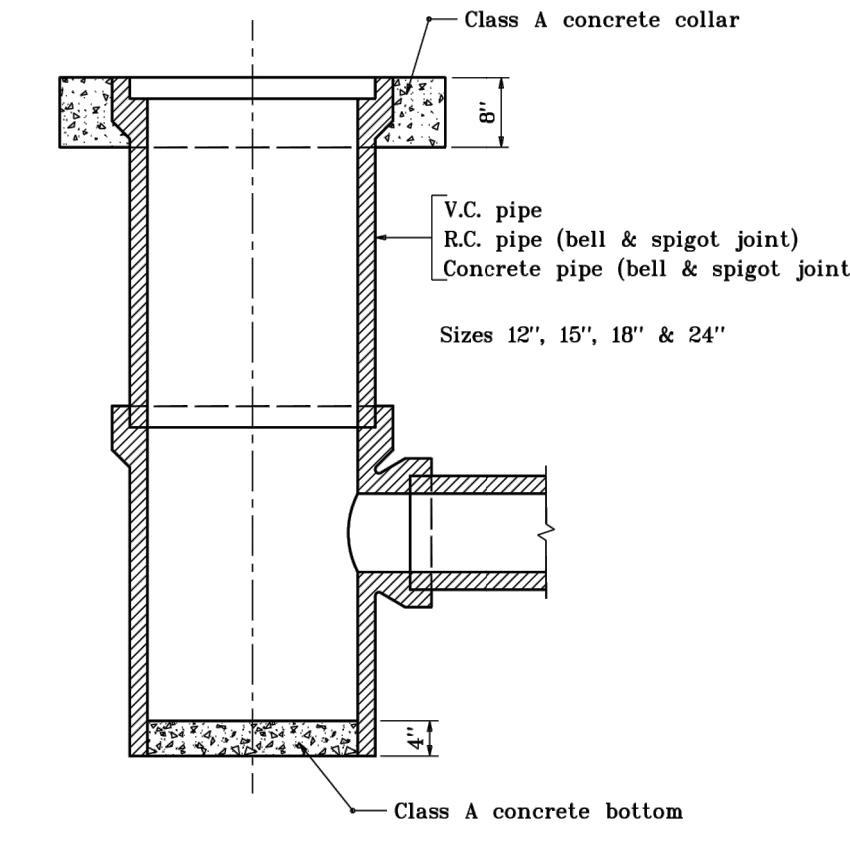
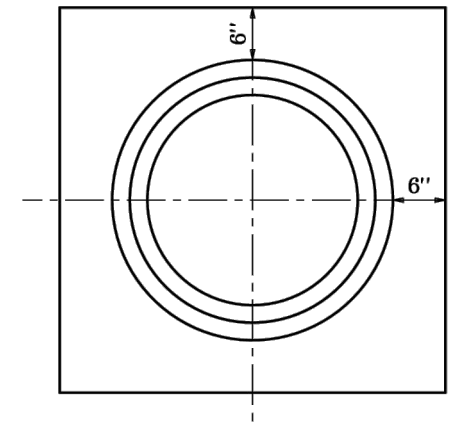


INDIANA DEPARTMENT OF TRANSPORTATION	
OUTLET PROTECTOR RODENT SCREEN	
SEPTEMBER 2017	
STANDARD DRAWING NO. E 718-UNDR-07	
	/s/ Elizabeth W. Phillips 08/26/16 DESIGN STANDARDS ENGINEER DATE
	/s/ Mark A. Miller 09/19/16 CHIEF ENGINEER DATE



PIPE CATCH BASIN CASTING

INDIANA DEPARTMENT OF TRANSPORTATION	
PIPE CATCH BASIN CASTING	
APRIL 1995	
STANDARD DRAWING NO. E 720-CBCA-01	
DETAILS PLACED IN THIS FORMAT 11-15-99	
	/s/ Anthony L. Uramovich 11-15-99 DESIGN STANDARDS ENGINEER DATE
	/s/ Feroze Zaidi 11-15-99 CHIEF ENGINEER DATE ORIGINALLY APPROVED 4-03-95



INDIANA DEPARTMENT OF TRANSPORTATION	
CATCH BASIN PIPE	
APRIL 1995	
STANDARD DRAWING NO. E 720-CBST-06	
DETAILS PLACED IN THIS FORMAT 11-15-99	
	/s/ Anthony L. Uramovich 11-15-99 DESIGN STANDARDS ENGINEER DATE
	/s/ Feroze Zaidi 11-15-99 CHIEF ENGINEER DATE ORIGINALLY APPROVED 4-03-95

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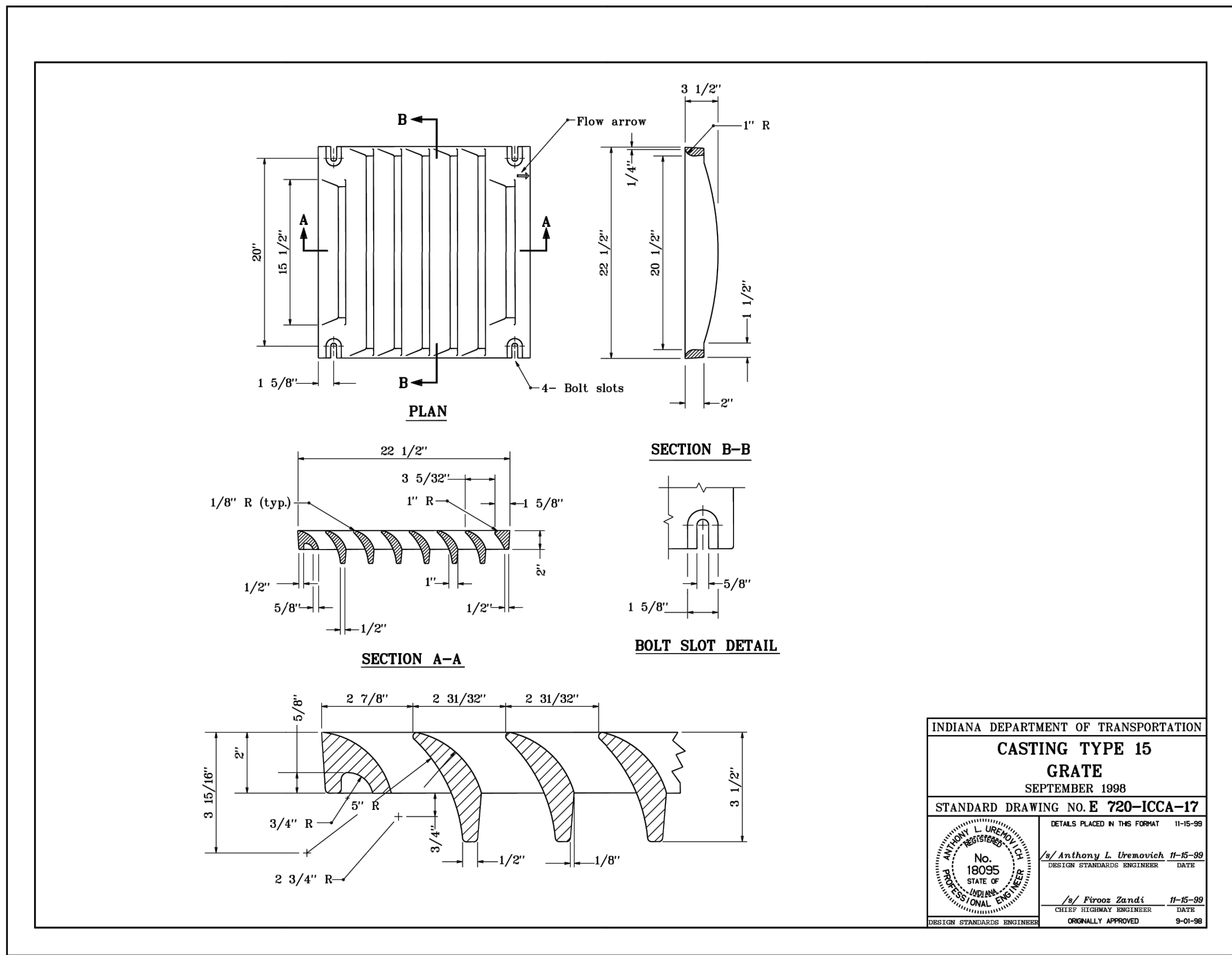
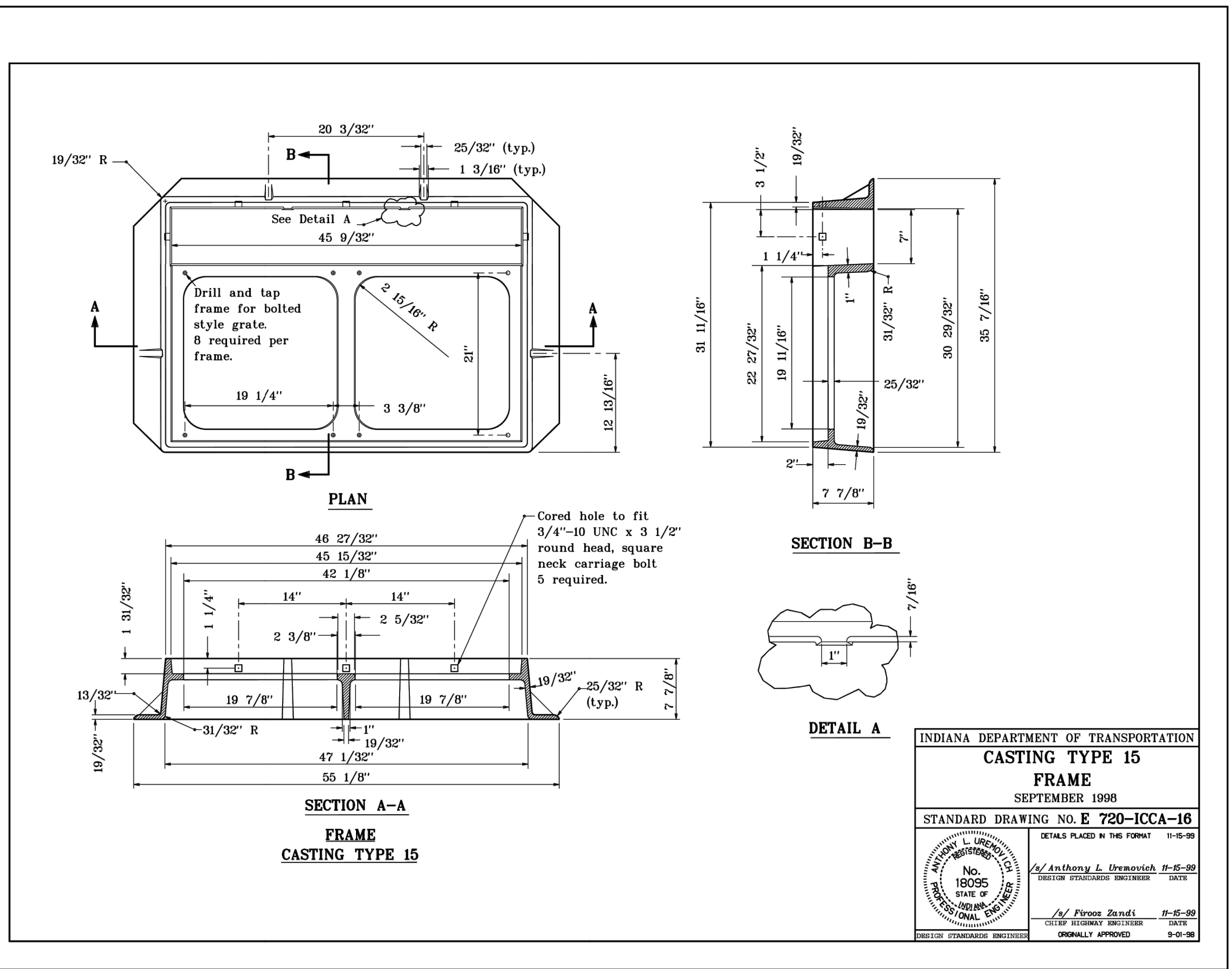
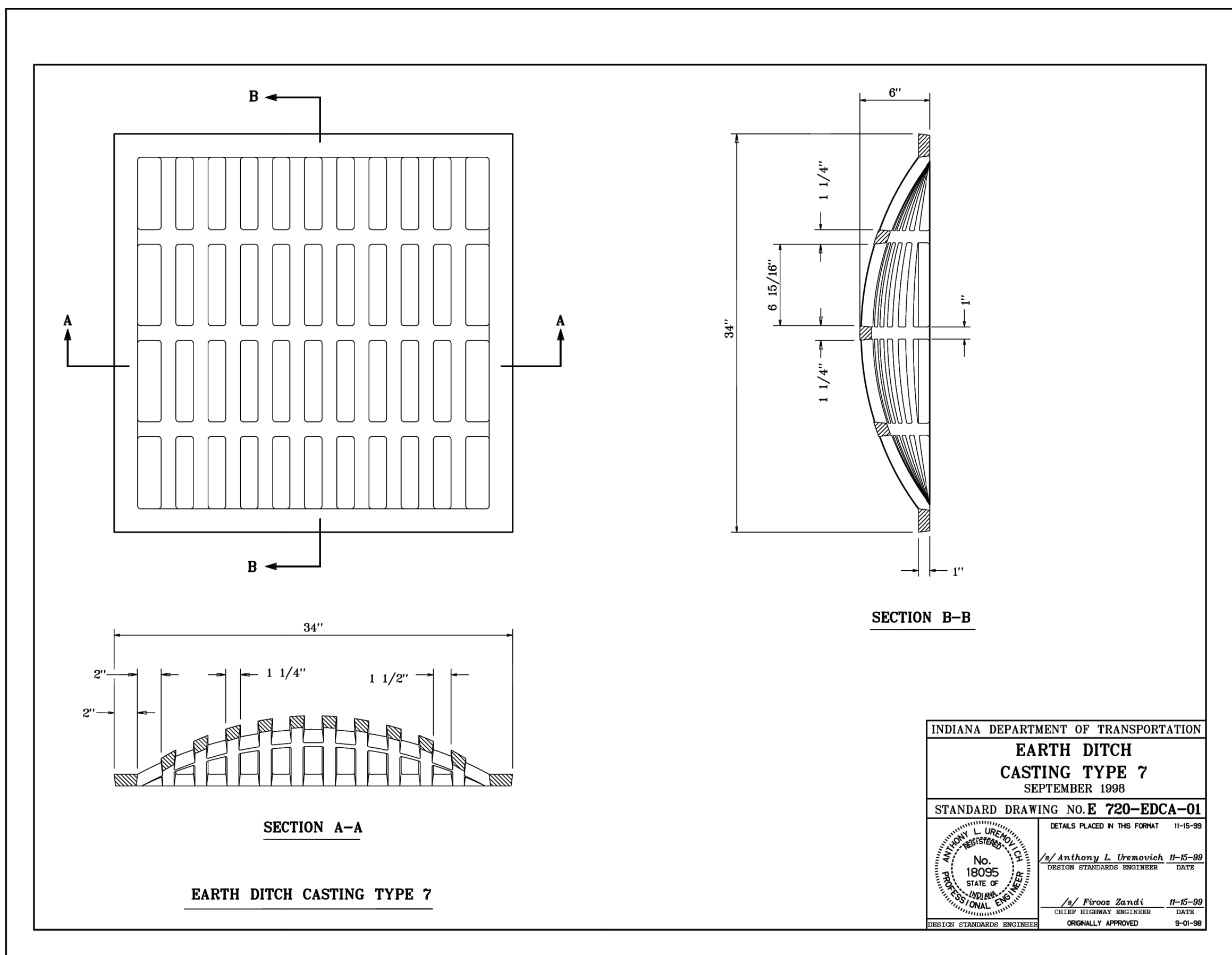
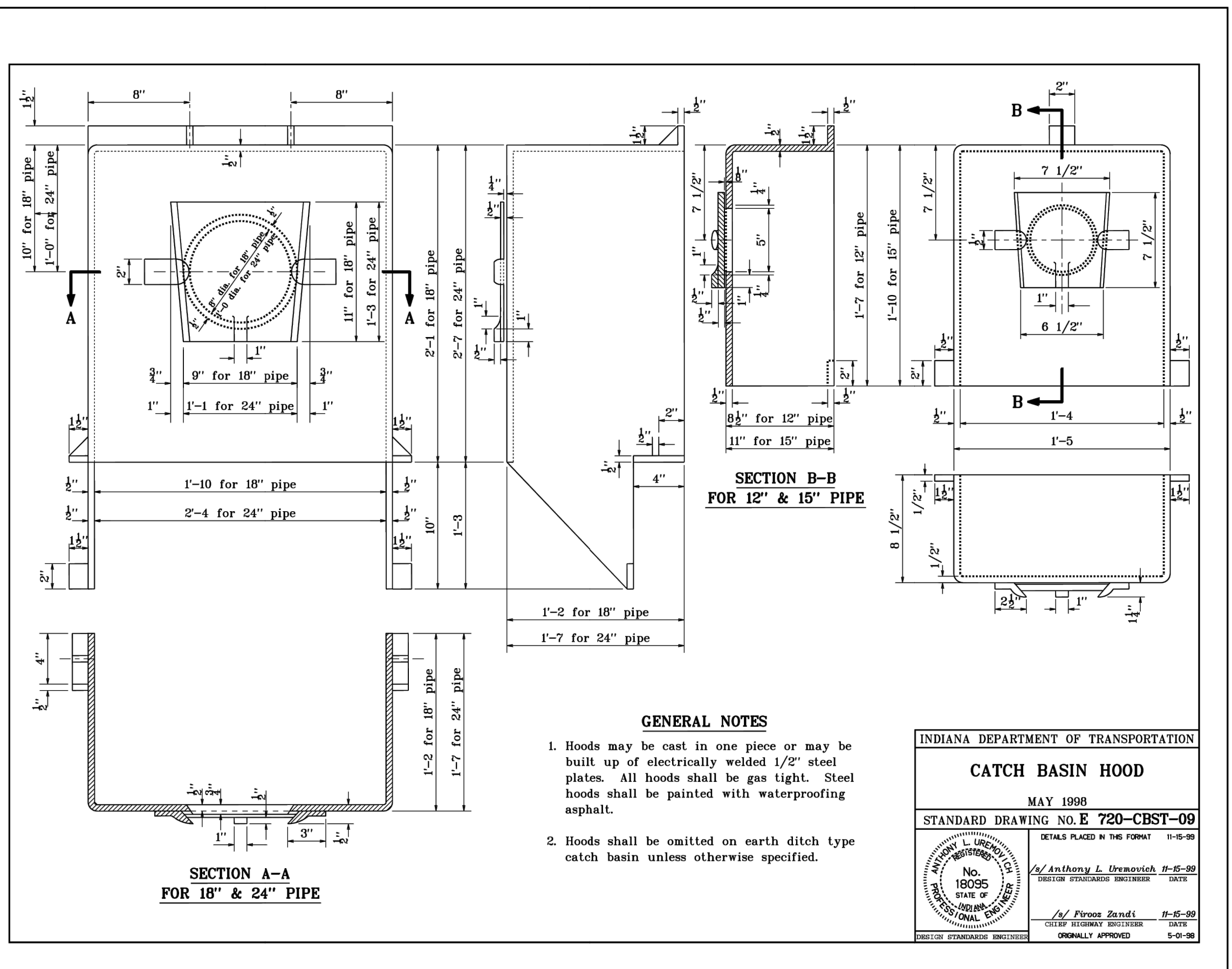
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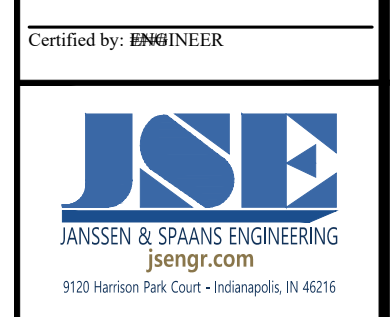
PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA



Revisions:	
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Requisition Number:	
Account Number:	
Designer:	ID 8/30/2024
Drafter:	JRC Drawing Scale: N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS132
Sheet:	110 of 140



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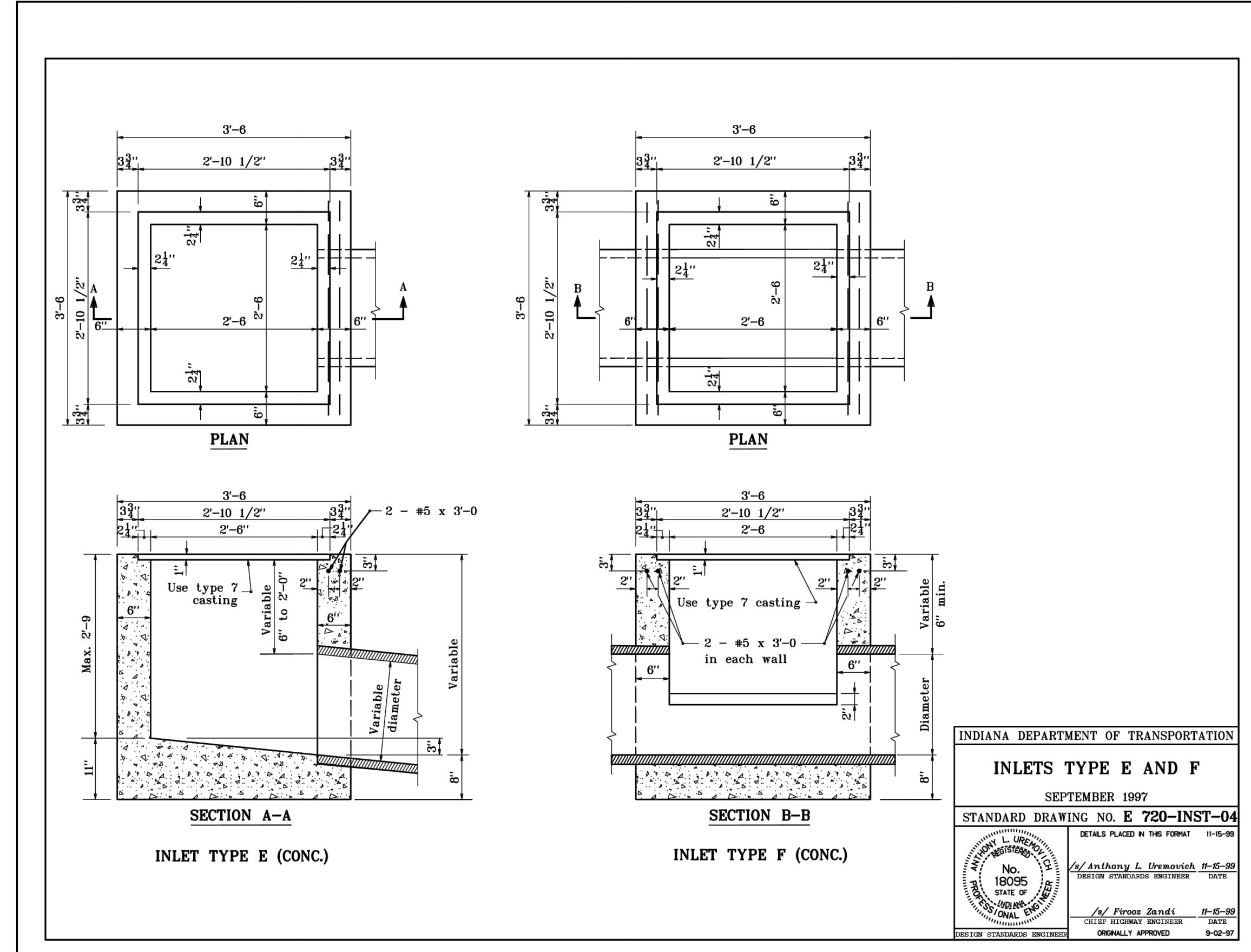
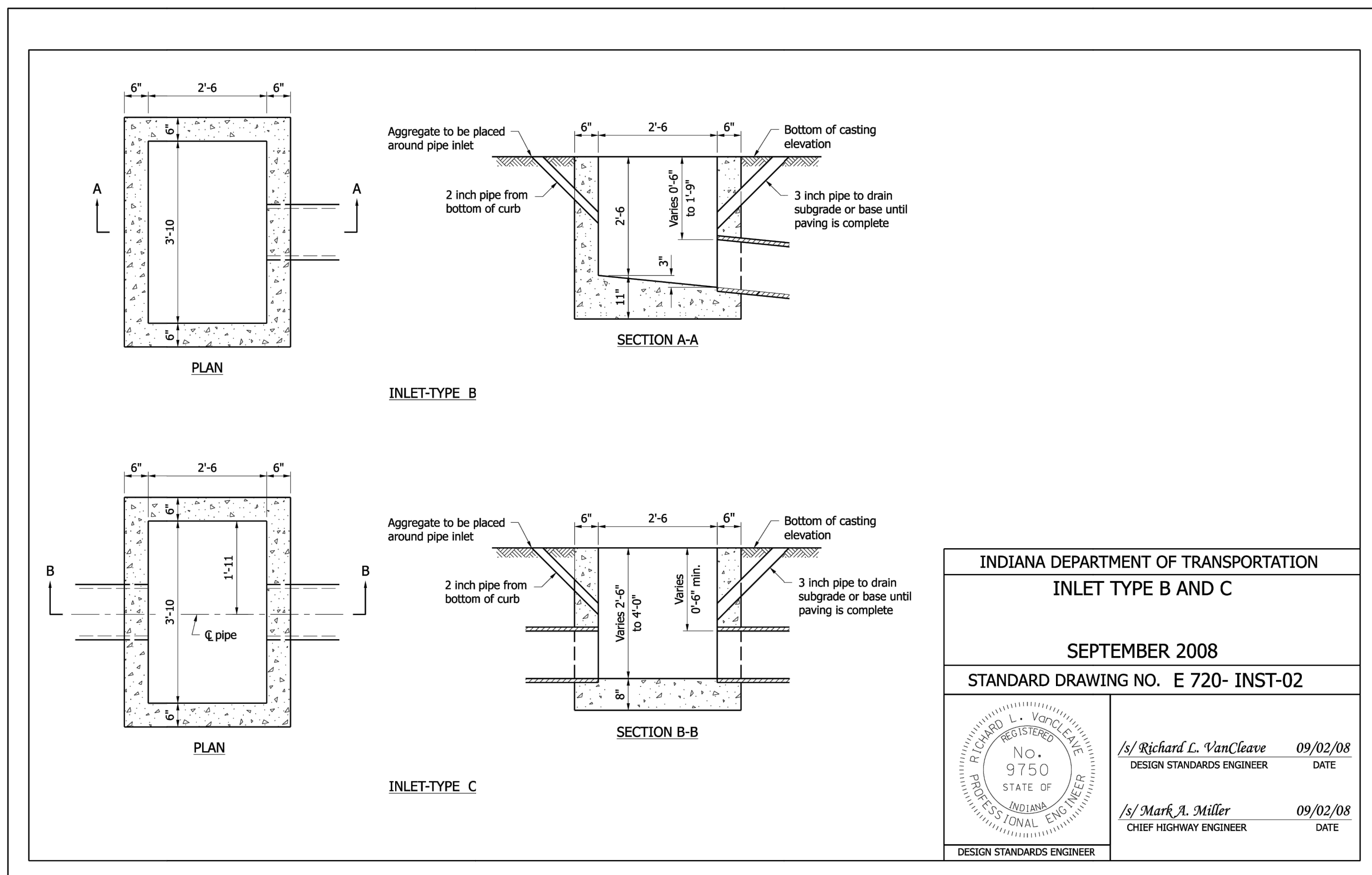
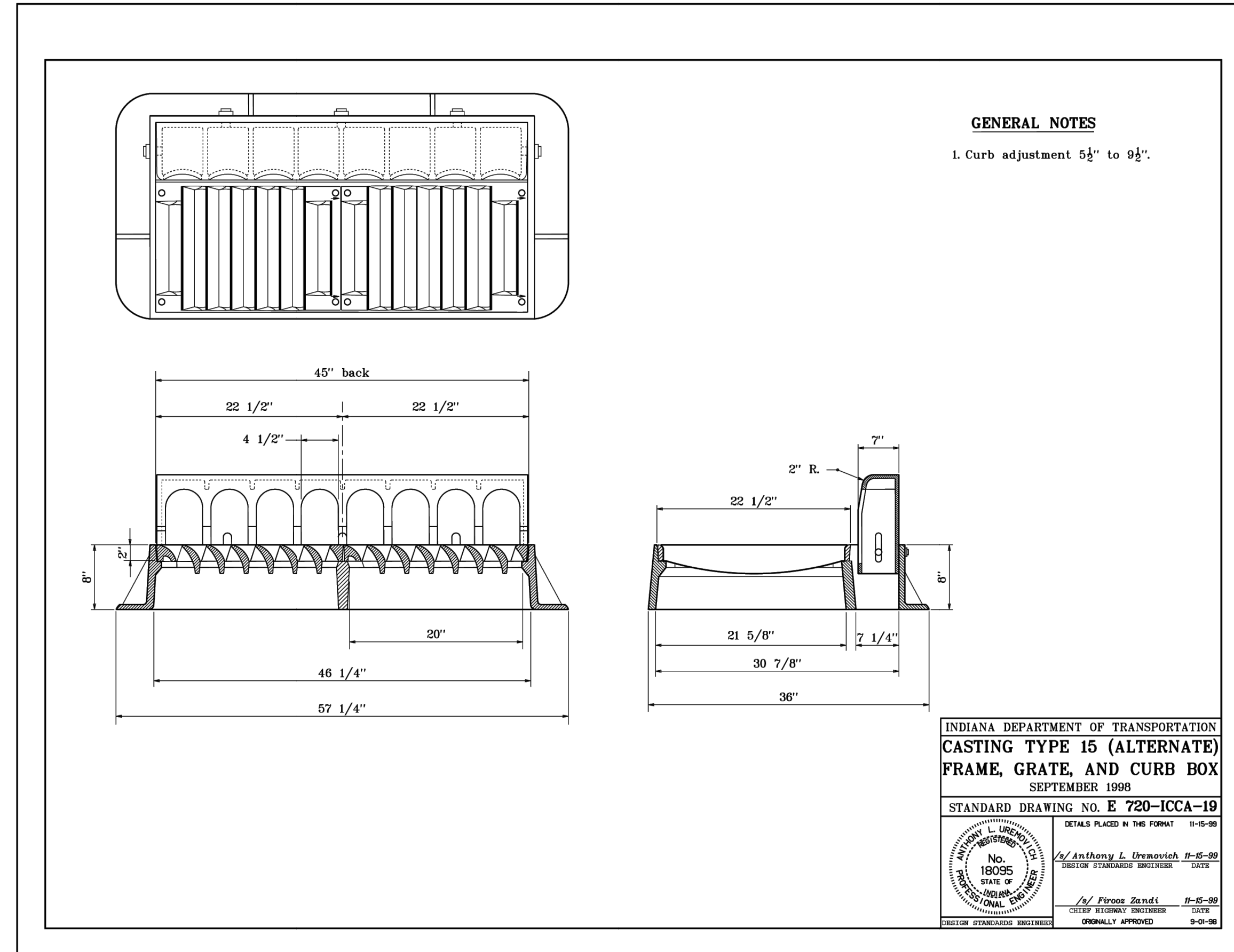
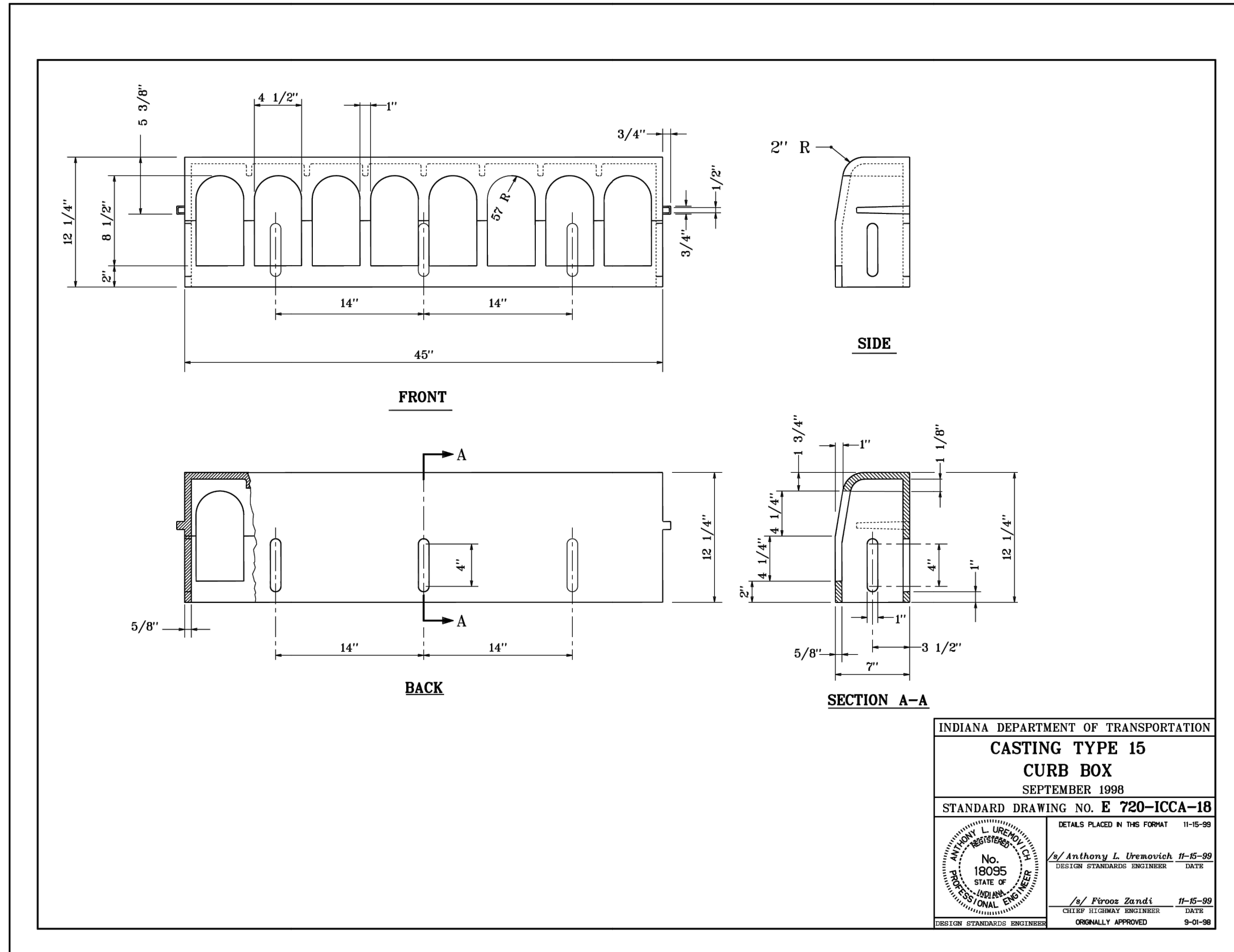


PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA

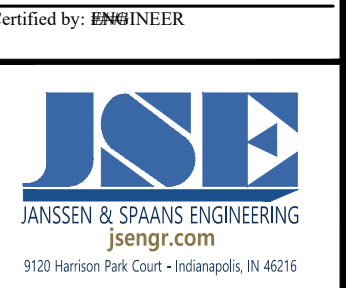


Revisions:

Project Number: 89006007-23-034-C1
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 Account Number:
 Designer: IID Drawing Date: 8/30/2024
 Drafter: JRC Drawing Scale: N/A
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 Client Approval:
 Reference Number: 1394
 Building Reference:
 Drawing Number: CS133
 Sheet: 111 of 140



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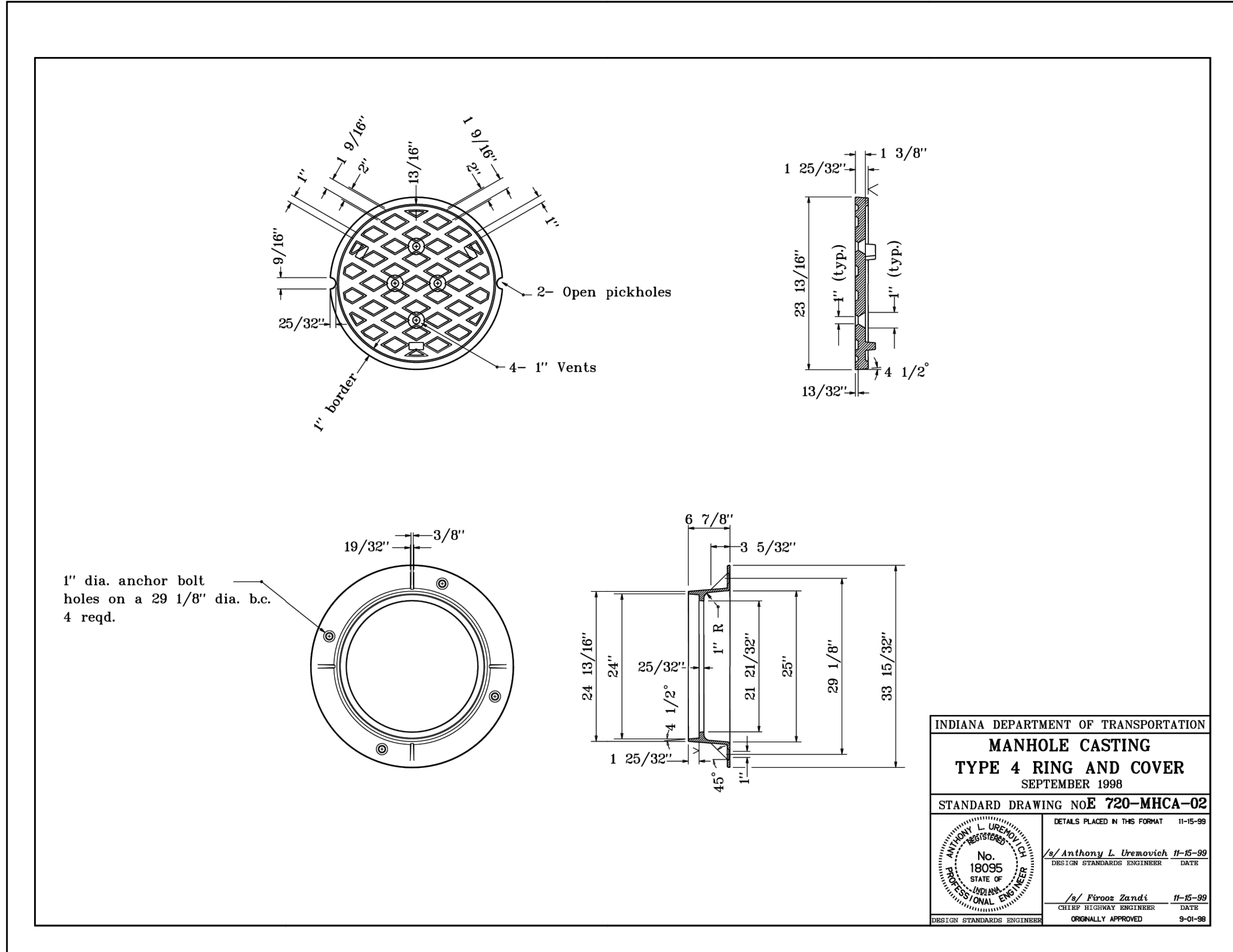


PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA

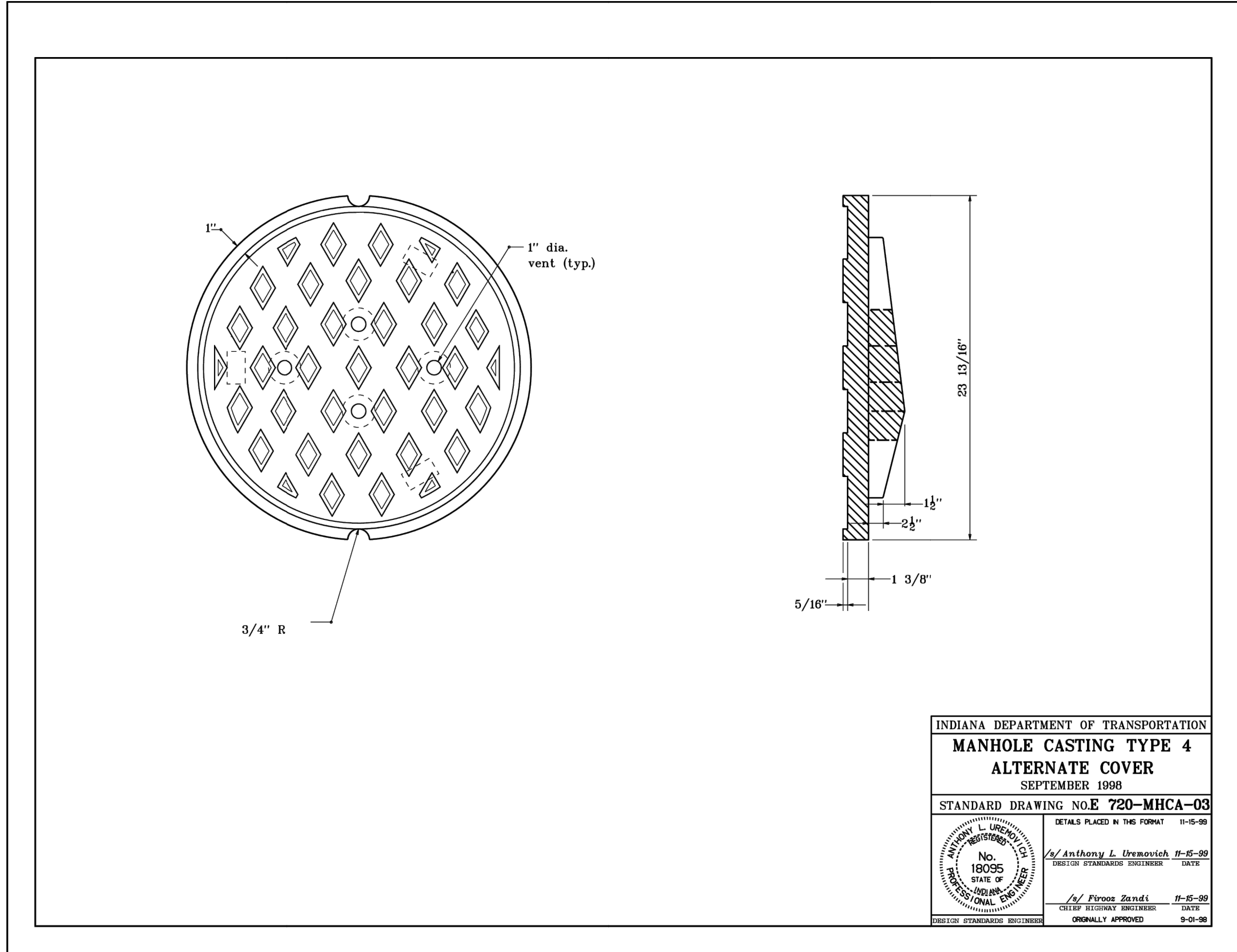


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Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
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Sheet:	112 of 140

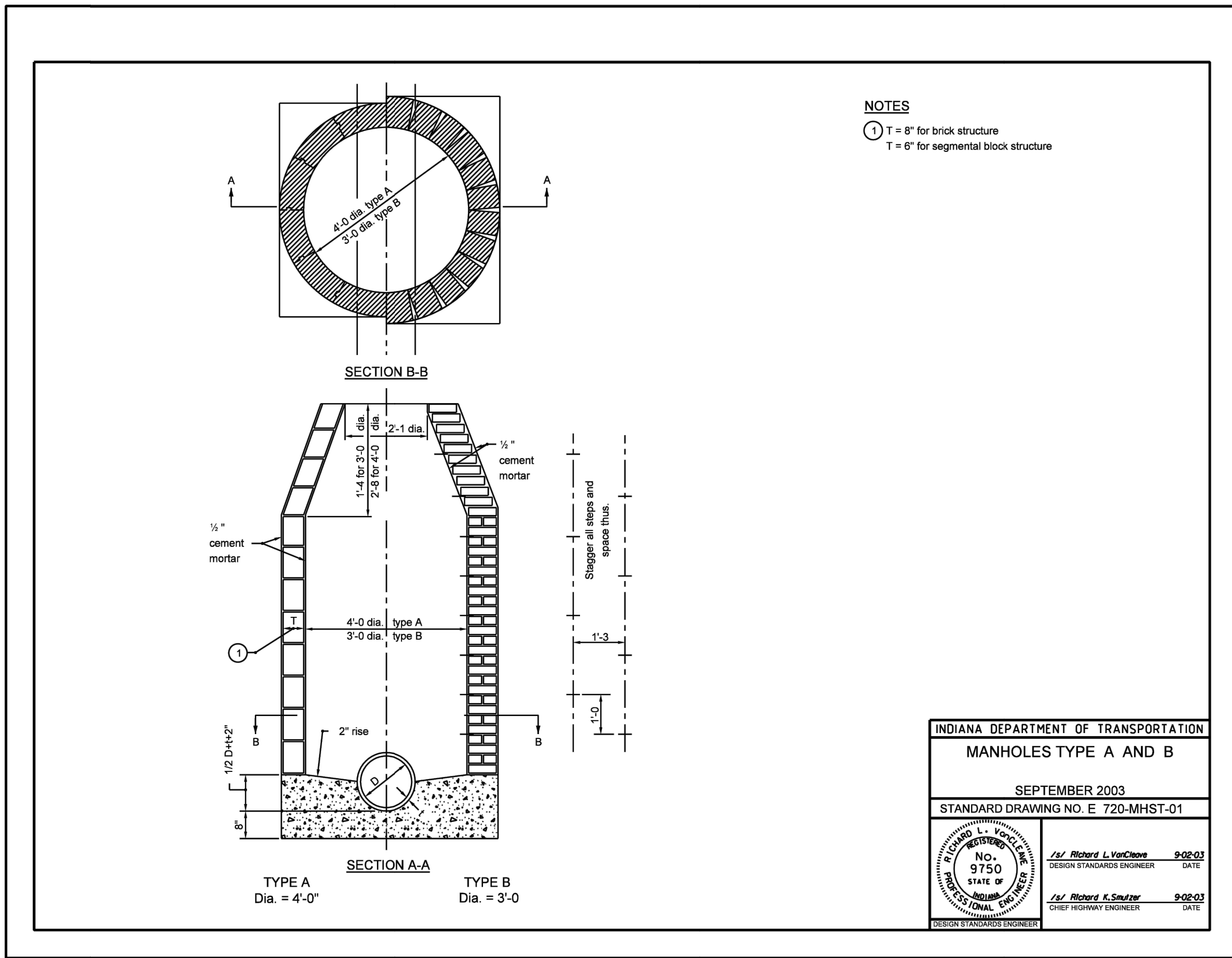
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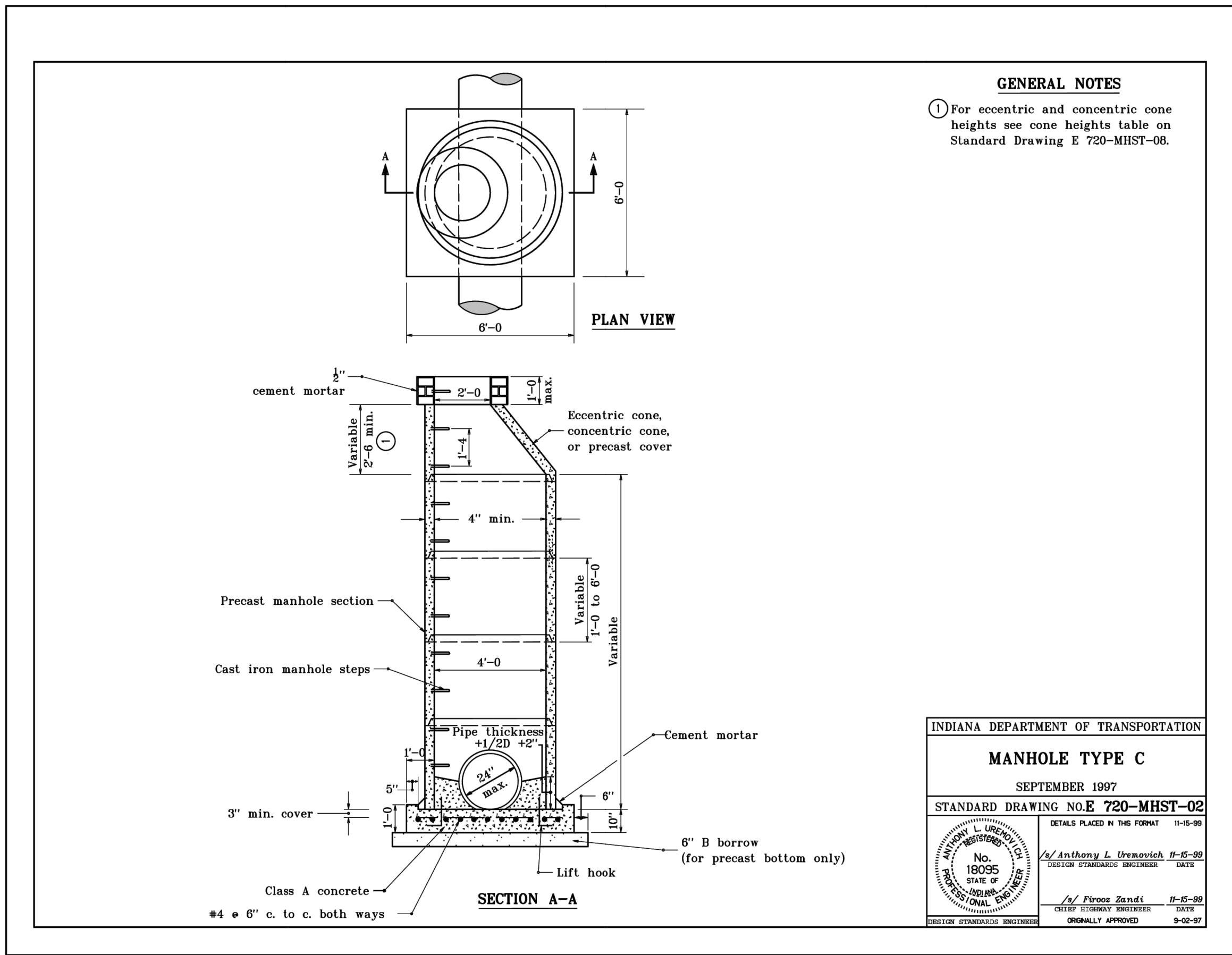
INDIANA DEPARTMENT OF TRANSPORTATION
MANHOLE CASTING TYPE 4 RING AND COVER
 SEPTEMBER 1998
 STANDARD DRAWING NO. E 720-MHCA-02
 DETAILS PLACED IN THE FORMAT 11-5-99
 No. 18095
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 /s/ Anthony L. Uremovich 11-5-99
 DESIGN STANDARDS ENGINEER DATE
 /s/ Firooz Zandi 11-5-99
 CHIEF REGIONAL ENGINEER DATE
 ORIGINALLY APPROVED 9-9-98



INDIANA DEPARTMENT OF TRANSPORTATION
MANHOLE CASTING TYPE 4 ALTERNATE COVER
 SEPTEMBER 1998
 STANDARD DRAWING NO. E 720-MHCA-03
 DETAILS PLACED IN THE FORMAT 11-5-99
 No. 18095
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 /s/ Anthony L. Uremovich 11-5-99
 DESIGN STANDARDS ENGINEER DATE
 /s/ Firooz Zandi 11-5-99
 CHIEF REGIONAL ENGINEER DATE
 ORIGINALLY APPROVED 9-9-98



INDIANA DEPARTMENT OF TRANSPORTATION
MANHOLES TYPE A AND B
 SEPTEMBER 2003
 STANDARD DRAWING NO. E 720-MHST-01
 No. 9150
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 /s/ Richard L. VanCleave 9-28-03
 DESIGN STANDARDS ENGINEER DATE
 /s/ Richard K. Smutzer 9-28-03
 CHIEF HIGHWAY ENGINEER DATE



INDIANA DEPARTMENT OF TRANSPORTATION
MANHOLE TYPE C
 SEPTEMBER 1997
 STANDARD DRAWING NO. E 720-MHST-02
 DETAILS PLACED IN THE FORMAT 11-5-99
 No. 18095
 STATE OF INDIANA
 PROFESSIONAL ENGINEER
 /s/ Anthony L. Uremovich 11-5-99
 DESIGN STANDARDS ENGINEER DATE
 /s/ Firooz Zandi 11-5-99
 CHIEF REGIONAL ENGINEER DATE
 ORIGINALLY APPROVED 9-9-98

NOTES
 1 T = 8" for brick structure
 T = 6" for segmental block structure

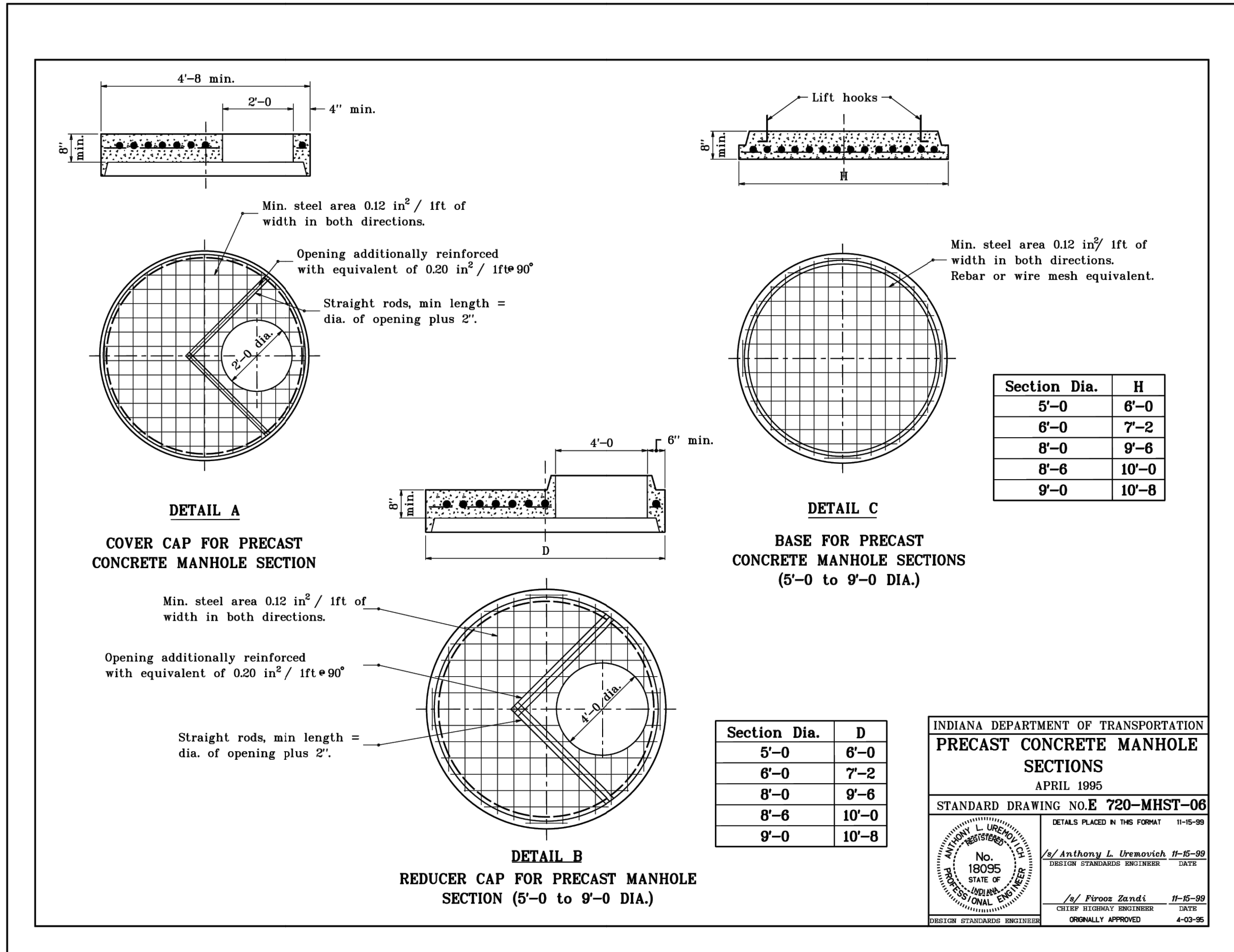
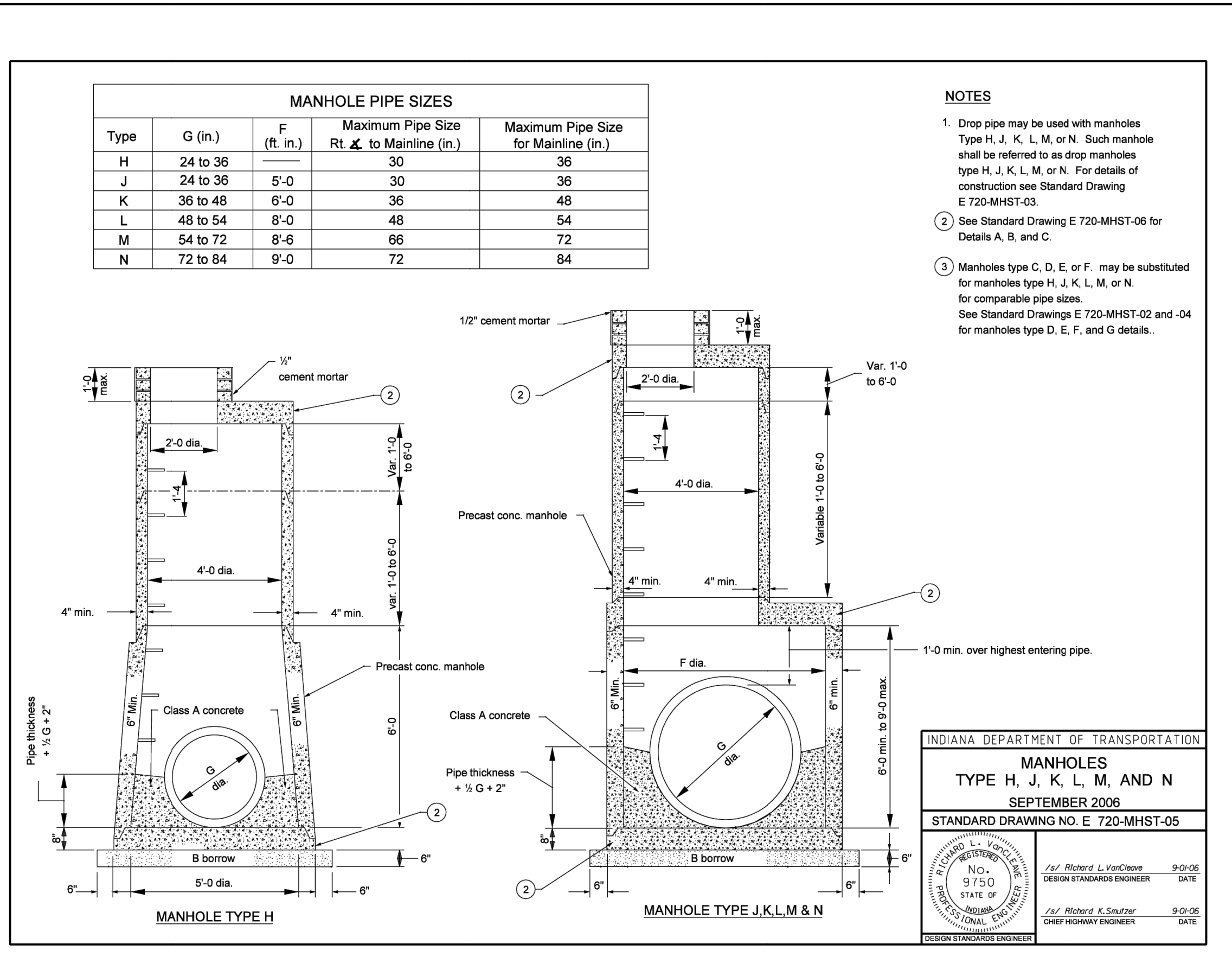
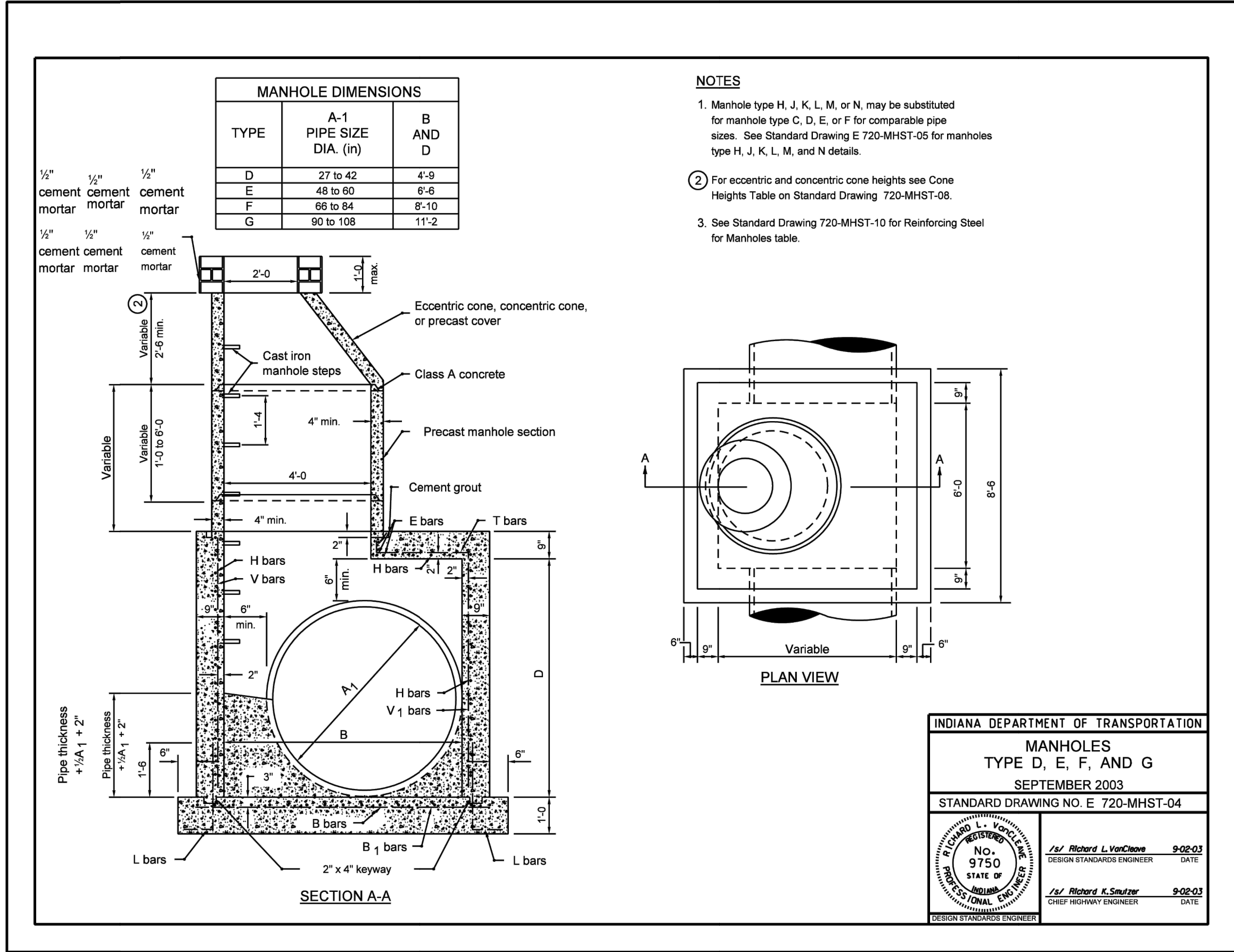
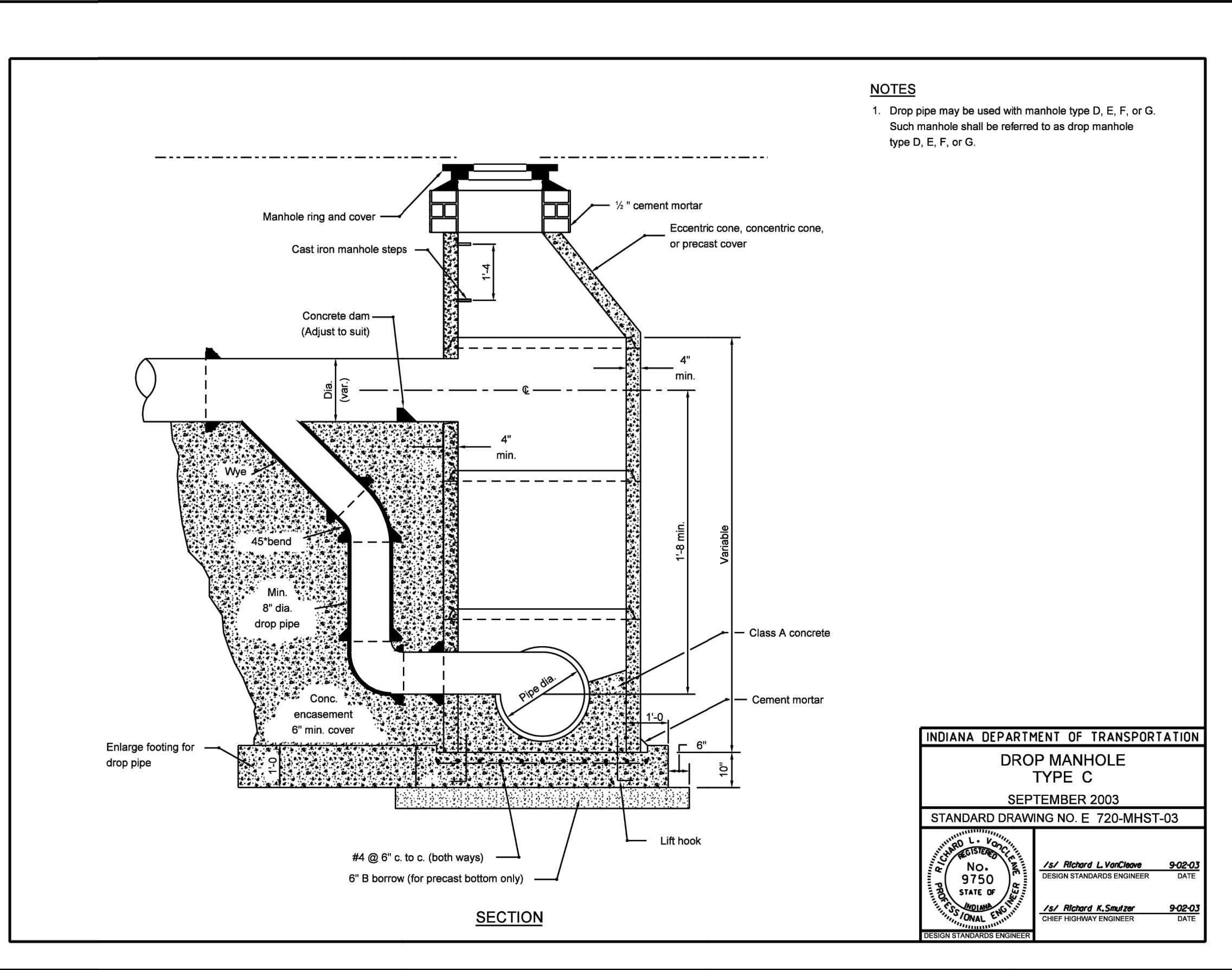
GENERAL NOTES
 1 For eccentric and concentric cone heights see cone heights table on Standard Drawing E 720-MHST-08.



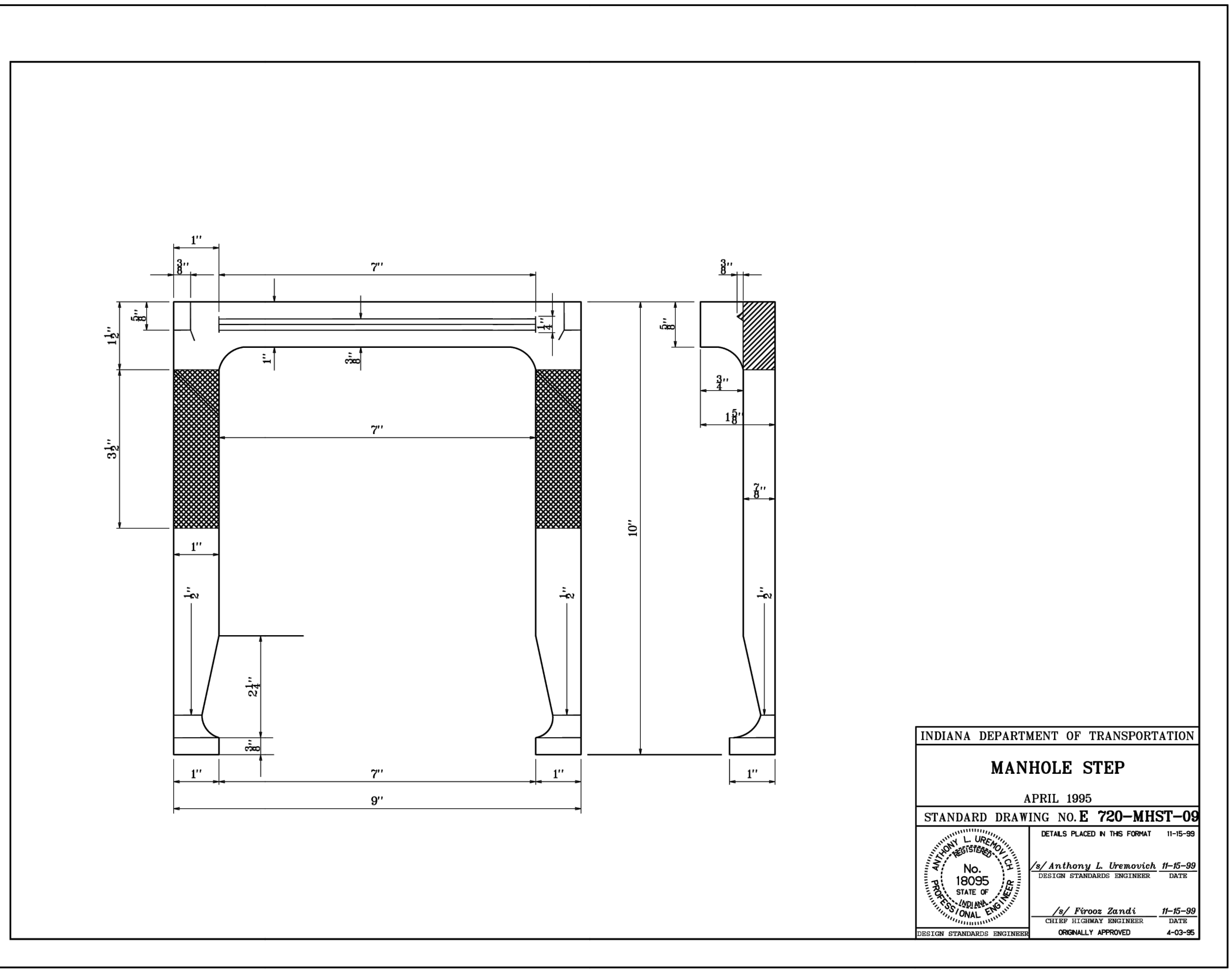
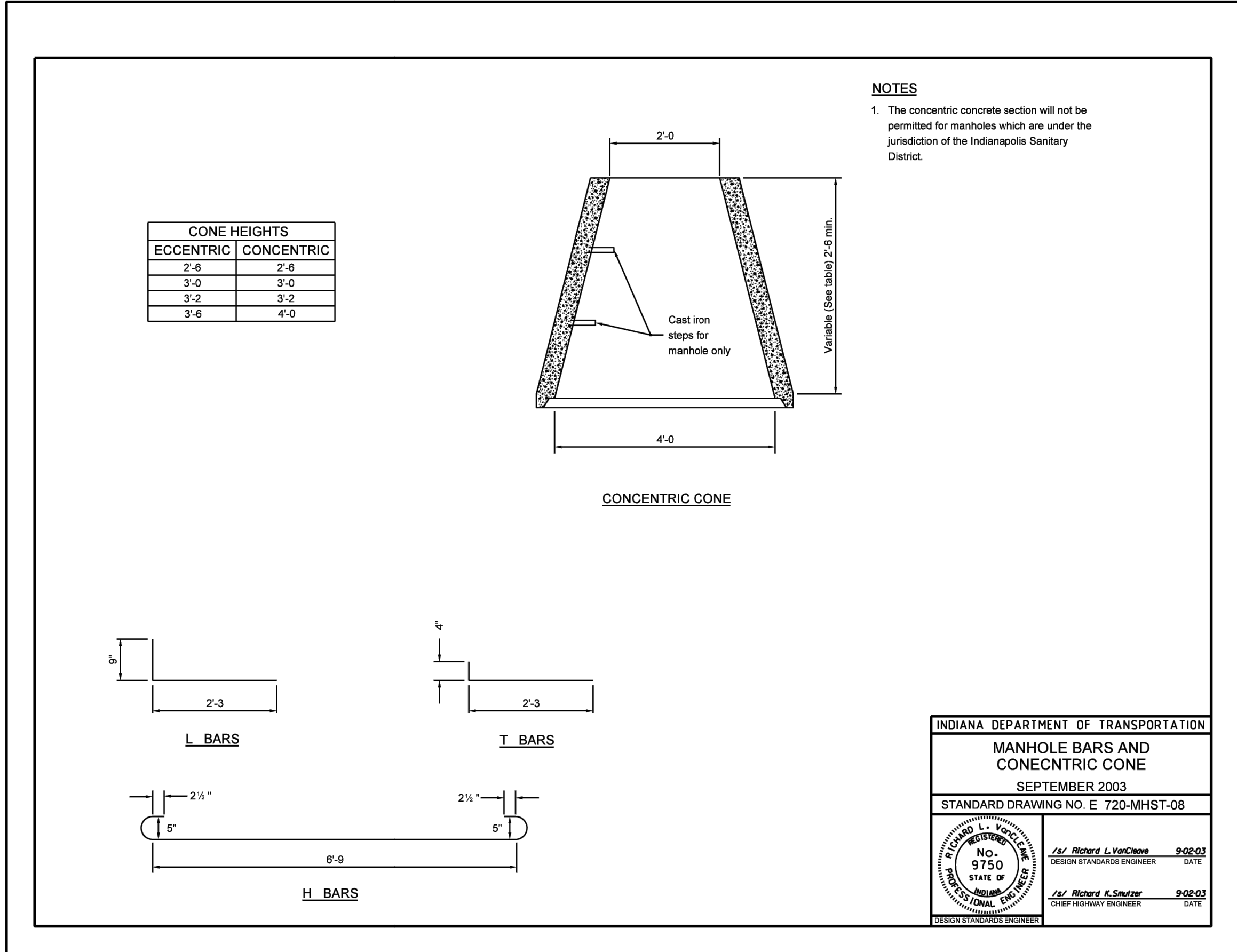
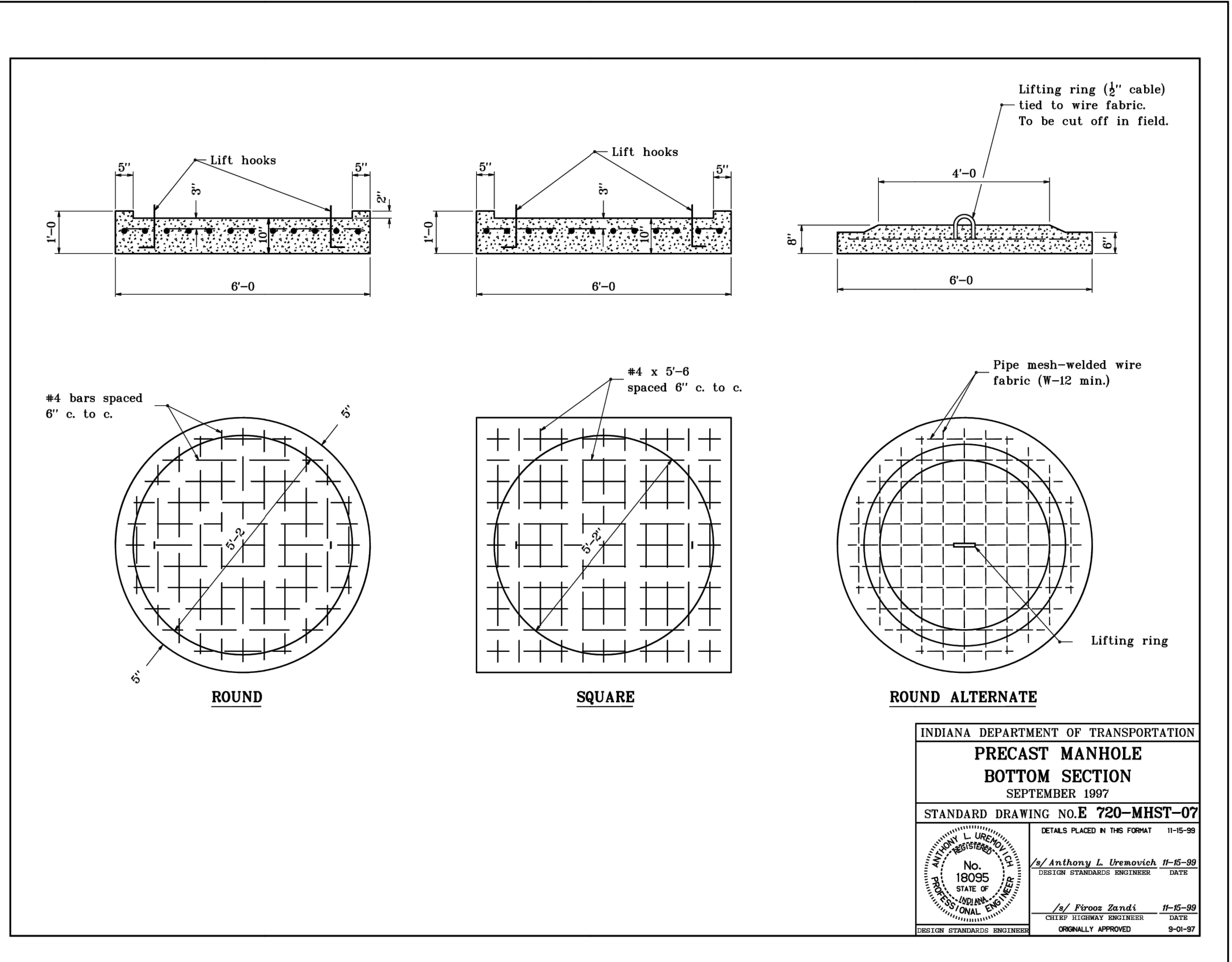
PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA



Revisions:	
Project Number:	89006007-23-034-C1
Requisition Number:	
Account Number:	
Designer:	ID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	
Client Approval:	
Reference Number:	1394
Building Reference:	
Drawing Number:	CS135
Sheet:	113 of 140



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REINFORCING STEEL FOR MANHOLES																
Bars	Manhole Type D				Manhole Type E				Manhole Type F				Manhole Type G			
	Length	No.	Spa.	Size	Length	No.	Spa.	Size	Length	No.	Spa.	Size	Length	No.	Spa.	Size
B	8'-0"	10	9"	#5	8'-0"	12	9"	#5	8'-0"	16	9"	#5	8'-0"	19	9"	#5
B ₁	6'-9"	12	9"	#5	8'-6"	12	9"	#5	11'-0"	12	9"	#5	13'-3"	12	9"	#5
E	7'-3"	3	2"	#5	7'-3"	3	2"	#5	7'-3"	3	2"	#5	7'-3"	3	2"	#5
H	8'-6"	22	6"	#5	8'-6"	33	6"	#5	8'-6"	41	6"	#5	8'-6"	58	6"	#5
L	3'-0"	16	12"	#5	3'-0"	16	12"	#5	3'-0"	16	12"	#5	3'-0"	16	12"	#5
T	1'-3"	16	6"	#5	3'-0"	16	6"	#5	5'-3"	16	6"	#5	7'-6"	16	6"	#5
V	5'-0"	16	6"	#5	6'-9"	16	6"	#5	9'-0"	16	6"	#5	11'-6"	16	6"	#5
V ₁	4'-9"	16	6"	#5	6'-6"	16	6"	#5	8'-9"	16	6"	#5	11'-3"	16	6"	#5

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Certified by: ENGINEER



PUBLIC WORKS PROJECT NO. 89006007-23-034-C1
 CENTERVILLE WELCOME CENTER
 CENTERVILLE, INDIANA



Revisions:	
Project Number:	89006007-23-034-C1
Account Number:	-
Designer:	JID
Drawing Date:	8/30/2024
Drafter:	JRC
Drawing Scale:	N/A
DAPW Approval:	-
Client Approval:	-
Reference Number:	1394
Building Reference:	-
Drawing Number:	CS137
Sheet:	115 of 140

INDEX	
SHEET NO.	SUBJECT
1	Temporary Concrete Barrier Index Sheet
2	Temporary Concrete Barrier Dimensions
3	Temporary Concrete Barrier Details
4	Temporary Concrete Barrier Double Taper End Section
5	Anchored Temporary Concrete Barrier, Drop-In Anchor
6	Anchored Temporary Concrete Barrier, Ferrule Loop Insert

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER INDEX SHEET

SEPTEMBER 2019

STANDARD DRAWING NO. E 801-TCCB-01

DESIGN STANDARDS ENGINEER DATE 5/2/2019

CHIEF ENGINEER DATE 6/5/2019

Construction Zone Speed	Taper Flare Rate (4)
55 mph	16:1
50 mph	14:1
45 mph	12:1
40 mph	10:1
≤ 35 mph	10:1

- NOTES:
- The dimensions of the lifting slots are subject to adjustment as necessary to accommodate handling equipment.
 - Maximum barrier taper rate flares for lane closures for legal posted speed are shown in Table No. 1.
 - For additional connection details see Standard Drawing E 801-TCCB-03.
 - Where site conditions prohibit the use of these flare rates then flare rates may range from 10:1 to 6:1.

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER DIMENSIONS

SEPTEMBER 2019

STANDARD DRAWING NO. E 801-TCCB-02

DESIGN STANDARDS ENGINEER DATE 5/2/2019

CHIEF ENGINEER DATE 6/5/2019

REINFORCEMENT DETAILS

SECTION A-A

SPACER DETAIL

- NOTES:
- Section A-A shows reinforcement with welded wire fabric. The WWF may be bent to the shape of the wall.
 - Hex nut may be tack welded to bottom spacer to facilitate installation and removal. Bolts shall be torqued only to tight condition. Clearance between the spacer and the ends of the barrier shall allow angular deflection at the joints to allow flare rate 11:1 or flatter.
 - Top spacer TS 4" x 2" x 5/16" x 10" long.
 - Bottom spacer TS 4" x 2" x 5/16" x 1'-4" long.
 - Where necessary to meet short radius curving alignment, the shorter top spacer (10") may be substituted for the standard bottom spacer (16").
 - For additional connection details see Standard Drawing E 801-TCCB-02.
 - Where very short radius curving alignment is encountered, spacers may be TS 3" x 2" x 1/4" at the appropriate length as shown above.
 - In lieu of the connection detail shown, the J-J Hook temporary barrier connection of East-Set Industries as described in FHWA acceptance letter B-52 of March 26, 1999 may be used.

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER DETAILS

SEPTEMBER 2019

STANDARD DRAWING NO. E 801-TCCB-03

DESIGN STANDARDS ENGINEER DATE 5/2/2019

CHIEF ENGINEER DATE 6/5/2019

DOUBLE TAPER END SECTION ASSEMBLY (Showing location of inserts and bar hooks)

- NOTES:
- For connection details between Units A and B, see Standard Drawing E 801-TCCB-03.
 - Extreme ends of the double taper end section assembly require a 1 1/4" diameter bolt x 2-3 1/2" (4" min. thread, hex head and hex nut) for connecting to adjacent temporary concrete barriers.

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER DOUBLE TAPER END SECTION

SEPTEMBER 2019

STANDARD DRAWING NO. E 801-TCCB-04

DESIGN STANDARDS ENGINEER DATE 5/2/2019

CHIEF ENGINEER DATE 6/5/2019

Certified by: ENGINEER

INDIANA DEPARTMENT OF TRANSPORTATION

PUBLIC WORKS PROJECT NO. 89006007-23-034-C1

CENTERVILLE WELCOME CENTER

CENTERVILLE, INDIANA

Revisions:

Project Number: 89006007-23-034-C1

Requestion Number:

Account Number:

Designer: ID Drawing Date: 8/30/2024

Drafter: JRC Drawing Scale: N/A

DAPW Approval:

Client Approval:

Reference Number: 1394

Building Reference:

Drawing Number: CS138

Sheet: 118 of 140

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