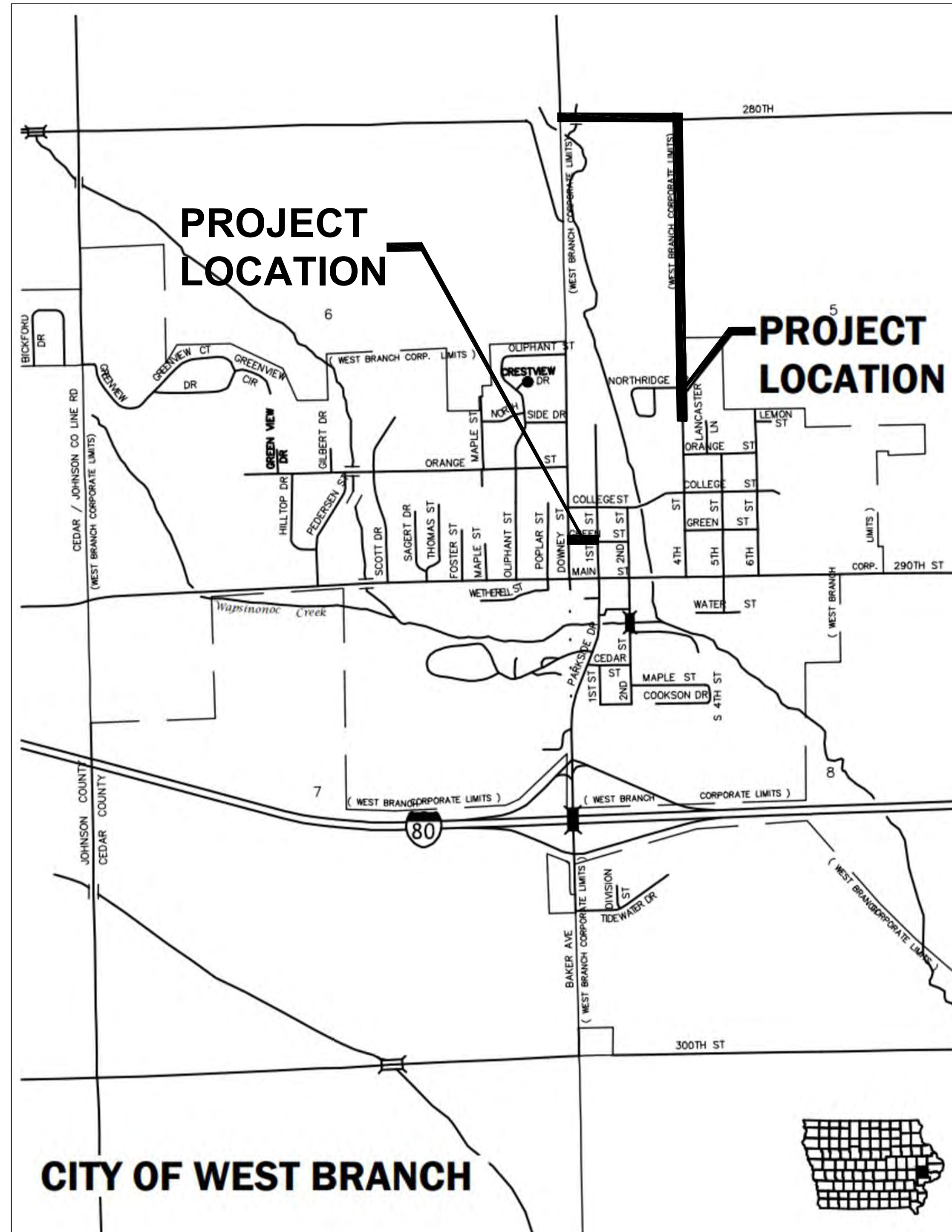


# TRUCK REROUTING AND PAVEMENT REPLACEMENT PLAN



VICINITY MAP  
NOT TO SCALE

DRAWING INDEX	
No.	DRAWING TITLE
A.01	INDEX TITLE SHEET
B.01A	TYPICAL SECTION (GREEN)
B.02A	TYPICAL SECTION (GREEN)
B.01B	TYPICAL SECTION (4TH ST.)
B.02B	TYPICAL SECTION (4TH ST.)
B.03B	TYPICAL SECTION (4TH ST.)
B.04B	TYPICAL SECTION (4TH ST.)
B.05	SIDEWALK DETAILS
B.06	PAVING DETAILS
B.07	PAVING DETAILS
B.08	PAVING DETAILS
B.09	HYDRANT AND STORM SEWER DETAILS
B.10	STORM SEWER DETIALS
B.11	STORM SEWER DETIALS
B.12	DRAINAGE DETIALS
B.13	DRAINAGE DETIALS
B.14	RETAINING WALL DETIALS
C.01	QUANTITIES
C.02	GENERAL NOTES
C.03	GENERAL NOTES
D.01A	DEMOLITION PLAN (GREEN)
D.01B	DEMOLITION PLAN (4TH ST.)
D.02B	DEMOLITION PLAN (4TH ST.)
D.03B	DEMOLITION PLAN (4TH ST.)
D.04B	DEMOLITION PLAN (4TH ST.)
D.05B	DEMOLITION PLAN (4TH ST.)
D.06B	DEMOLITION PLAN (4TH ST.)
E.01A	PLAN AND PROFILE (GREEN)
E.02A	PLAN AND PROFILE (GREEN)
E.03A	PLAN AND PROFILE (GREEN)
E.01B	PLAN AND PROFILE (4TH ST.)
E.02B	PLAN AND PROFILE (4TH ST.)
E.03B	PLAN AND PROFILE (4TH ST.)
E.04B	PLAN AND PROFILE (4TH ST.)
E.05B	PLAN AND PROFILE (4TH ST.)
E.06B	PLAN AND PROFILE (4TH ST.)
E.07B	PLAN AND PROFILE (4TH ST.)
E.08B	PLAN AND PROFILE (4TH ST.)
E.09B	PLAN AND PROFILE (4TH ST.)
M.01A	STORM AND SEWER PLAN (GREEN)
M.01B	STORM AND SEWER PLAN (4TH ST.)
M.02B	STORM AND SEWER PLAN (4TH ST.)

M.03B	STORM AND SEWER PLAN (4TH ST.)
M.04B	STORM AND SEWER PLAN (4TH ST.)
M.05B	STORM AND SEWER PLAN (4TH ST.)
M.06B	STORM AND SEWER PLAN (4TH ST.)
M.07B	STORM AND SEWER PLAN (4TH ST.)
T.01A	EARTHWORK TABULATIONS (GREEN)
T.01B	EARTHWORK TABULATIONS (4TH ST.)
T.02B	EARTHWORK TABULATIONS (4TH ST.)
T.03B	EARTHWORK TABULATIONS (4TH ST.)
T.04B	EARTHWORK TABULATIONS (4TH ST.)
W.01A	TYPICAL CROSS SECTIONS (GREEN)
W.02A	TYPICAL CROSS SECTIONS (GREEN)
W.03A	TYPICAL CROSS SECTIONS (GREEN)
W.01B	TYPICAL CROSS SECTIONS (4TH ST.)
W.02B	TYPICAL CROSS SECTIONS (4TH ST.)
W.03B	TYPICAL CROSS SECTIONS (4TH ST.)
W.04B	TYPICAL CROSS SECTIONS (4TH ST.)
W.05B	TYPICAL CROSS SECTIONS (4TH ST.)
W.06B	TYPICAL CROSS SECTIONS (4TH ST.)
W.07B	TYPICAL CROSS SECTIONS (4TH ST.)
W.08B	TYPICAL CROSS SECTIONS (4TH ST.)

#### GENERAL NOTES

- ALL ELEVATIONS ARE TO NAD 83 STATE PLANE SOUTH
- REMOVE AND REPLACE ALL STREET SIGNS AS DIRECTED BY ENGINEER. SHAPE ALL DITCHES TO DRAIN AFTER CONSTRUCTION
- CONFIRM LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AS REQUIRED TO ELIMINATE CONFLICTS PRIOR TO CONSTRUCTION. ALLOW UTILITY PERSONNEL TO RELOCATE UTILITIES WHERE CONFLICTS OCCUR
- DO NOT INTERRUPT EXISTING UTILITIES OR INDIVIDUAL SERVICES UNLESS DIRECTED BY ENGINEER
- LOCATIONS OF CONSTRUCTION LIMIT LINES SHOWN ON PLANES ARE APPROXIMATE. ENGINEER WILL LOCATE CONSTRUCTION LIMITS IN FIELD. CONFINE ALL CONSTRUCTION OPERATIONS, INCLUDING ACCESS TO WORK, TO CONSTRUCTION LIMITS.
- SET MANHOLE COVERS FLUSH WITH PROPOSED GRADES UNLESS OTHERWISE NOTES
- STATIONING IS ALONG CENTER LINE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- PROTECT UTILITY POLES, LINES AND APPURTENANCES NOT SHOWN FOR RELOCATION.
- RESET ALL PROPERTY PINS DISRUPTED BY CONSTRUCTION; PINS RESET BY REGISTERED LAND SURVEYOR; COST IS INCIDENTAL TO CONSTRUCTION.
- PROTECT ALL SURFACING, NOT INDICATED BY SHADING FOR REMOVAL AND REPLACEMENT FROM DAMAGE DURING CONSTRUCTION.

#### PROTECTION OF VEGETATION

TREES AND OTHER VEGETATION WHICH MAY BE REMOVED ARE MARKED WITH AN "X" OVER THE APPROPRIATE SYMBOL. IF TREES AND OTHER VEGETATION NOT SCHEDULES FOR REMOVAL ARE DAMAGED DURING CONSTRUCTION, REPLACE IN KIND AND SIZE AT NO COST TO THE CITY OR PROPERTY OWNER.

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	SJH
REVISION:	

THE UNIVERSITY OF IOWA  
CIVIL AND ENVIRONMENTAL ENGINEERING  
4105 SEAMANS CENTER FOR THE  
ENGINEERING ARTS AND SCIENCES  
103 S CAPITOL ST  
IOWA CITY, IOWA 52242  
PHONE: 319.335.5647  
FAX: 319.335.5660  
EMAIL: civil-hawks@iowca.edu

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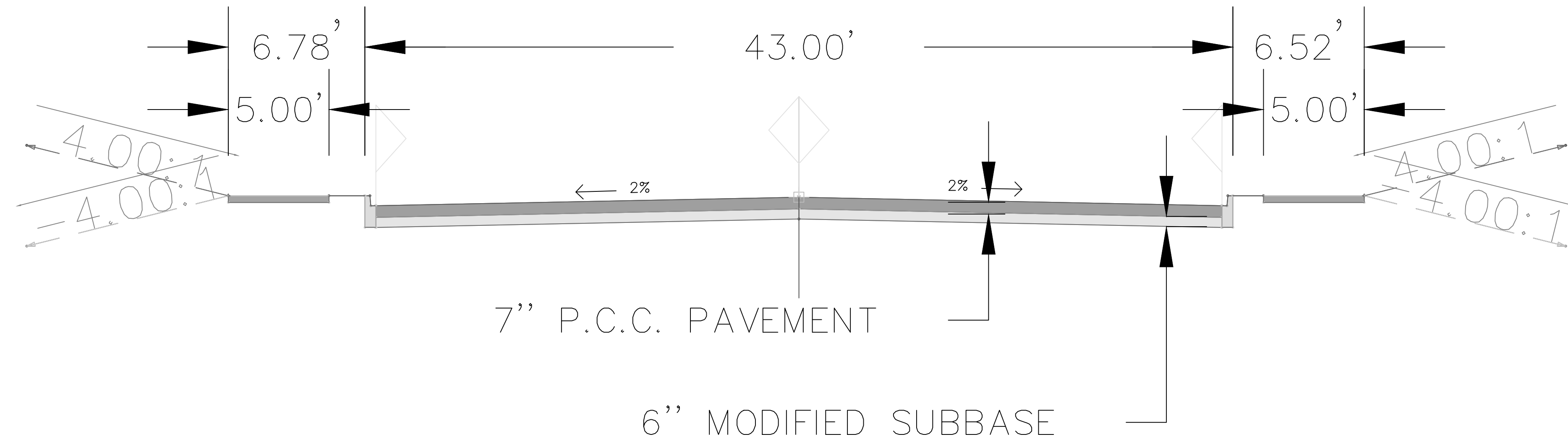
TRUCK REROUTING AND  
PAVEMENT REPLACEMENT

SHEET NAME

INDEX AND  
TITLE SHEET

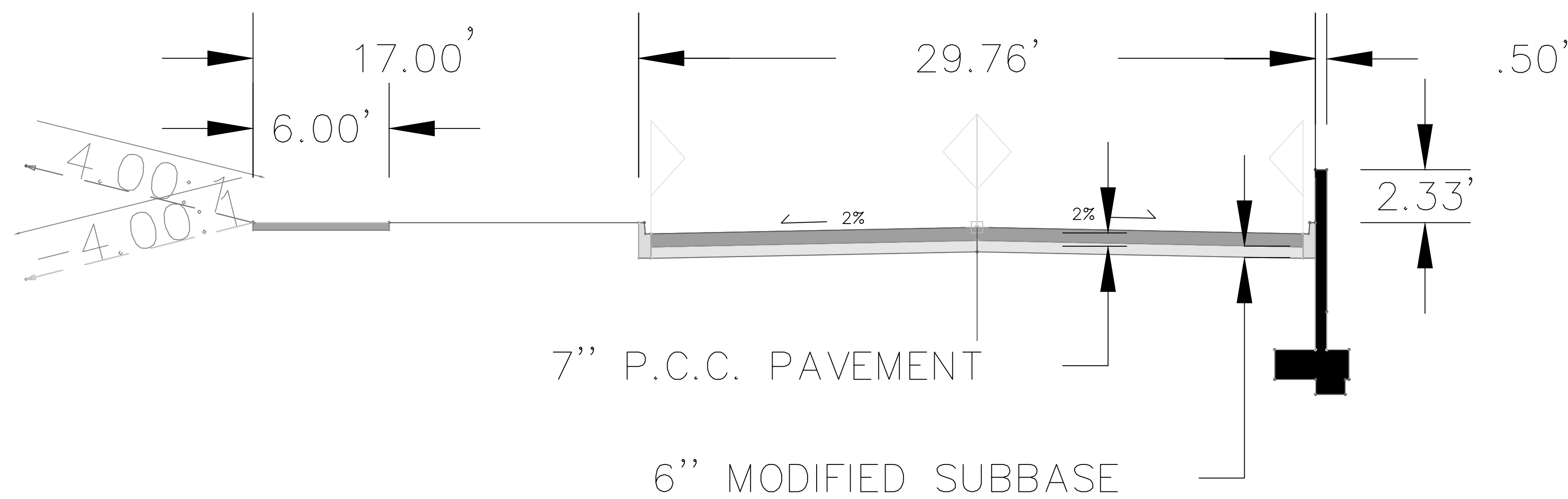
SHEET NO.

**A.01**



# FIRST STREET

STA 0+52.41 TO 1+17.50



# DOWNEY STREET

STA 0+00.00 TO 1+18.37

PROJECT: CEE: 4860  
 DATE: 05/08/2026  
 DRAWN BY: APH  
 REVISION:

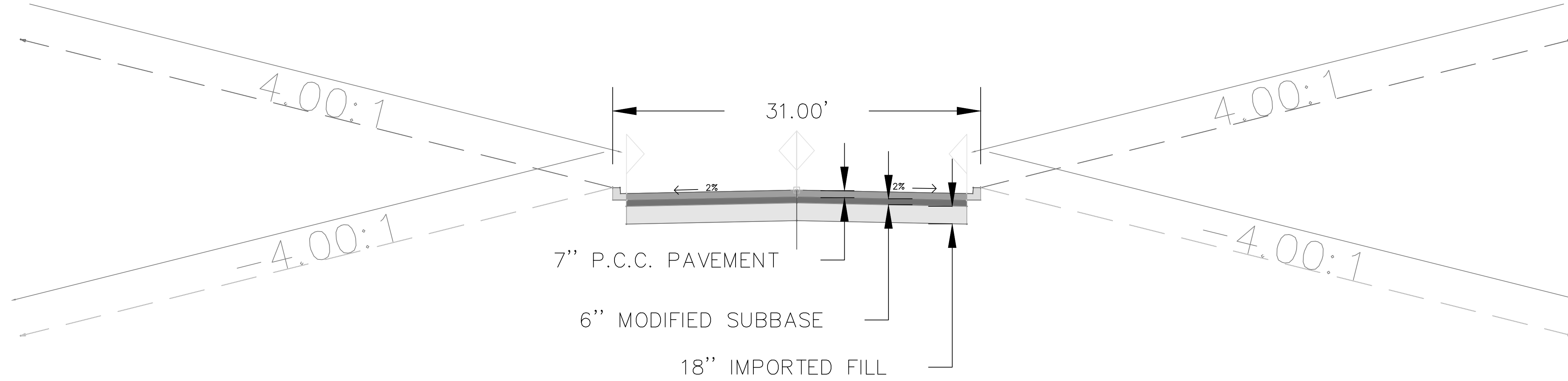
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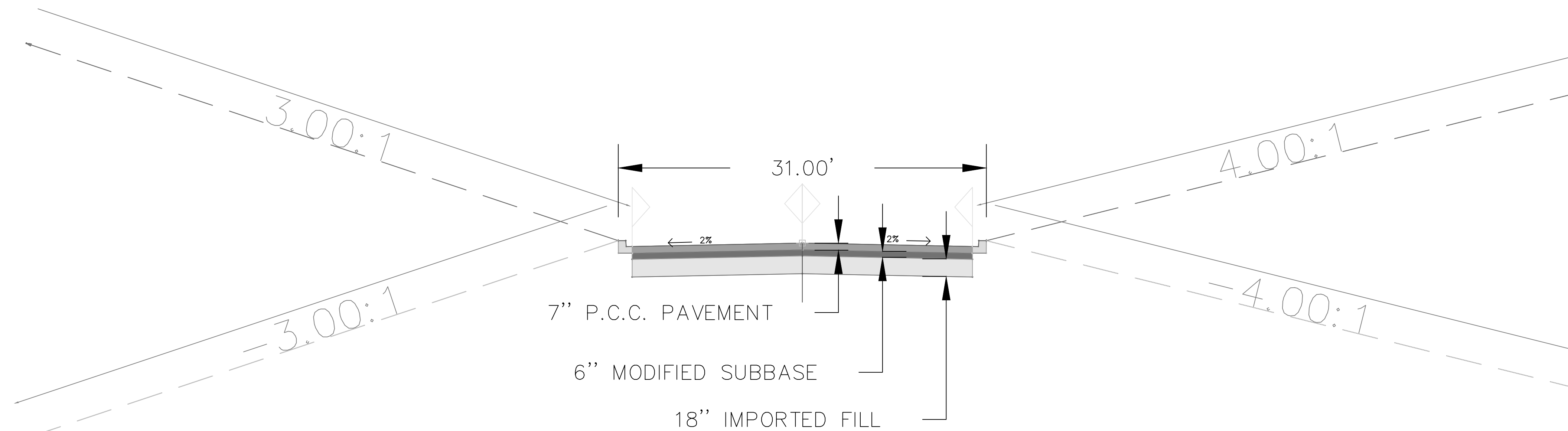
SHEET NAME  
 TYPICAL SECTIONS

SHEET NO.  
**B.01A**



### FOURTH STREET

STA 0+00.00 TO 6+54.02  
 STA 8+50.00 TO 20+74.91



### FOURTH STREET

STA 20+74.91 TO 23+24.61

PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: APH  
 REVISION:

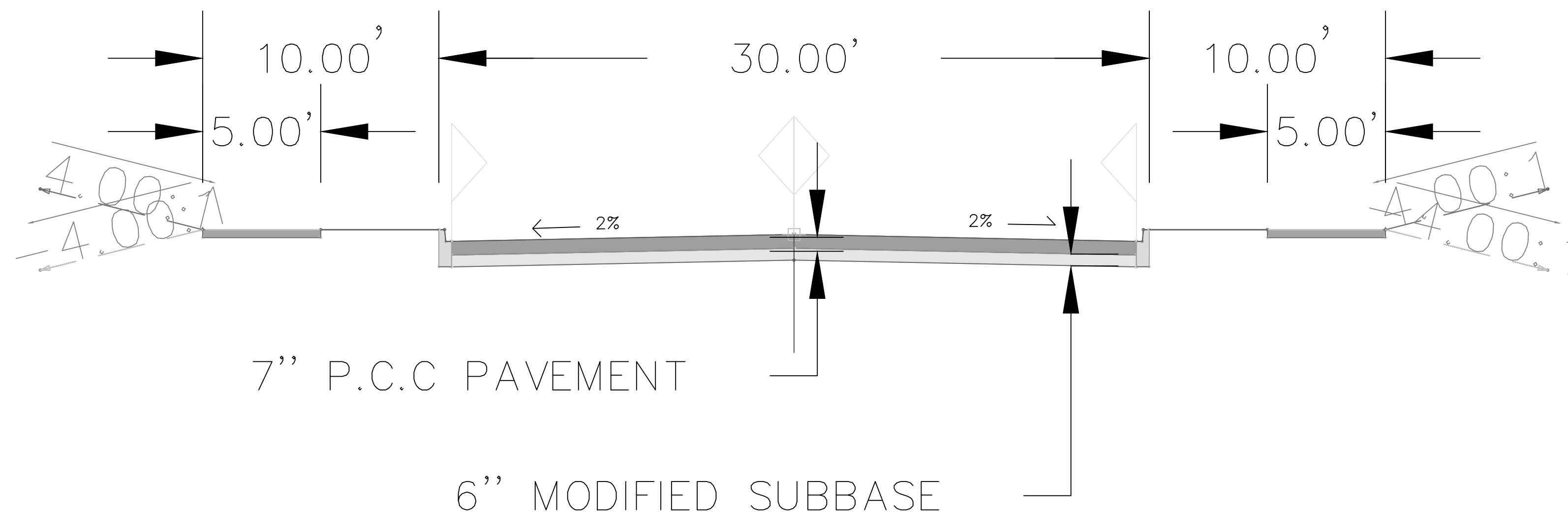
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**TRUCK REROUTING AND  
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SHEET NAME  
 TYPICAL SECTION

SHEET NO.  
**B.01B**



## GREEN STREET

STA 0+00.00 TO 3+22.86

PROJECT: CEE: 4860

DATE : 05/08/2026

DRAWN BY: APH

REVISION:

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TRUCK REROUTING AND

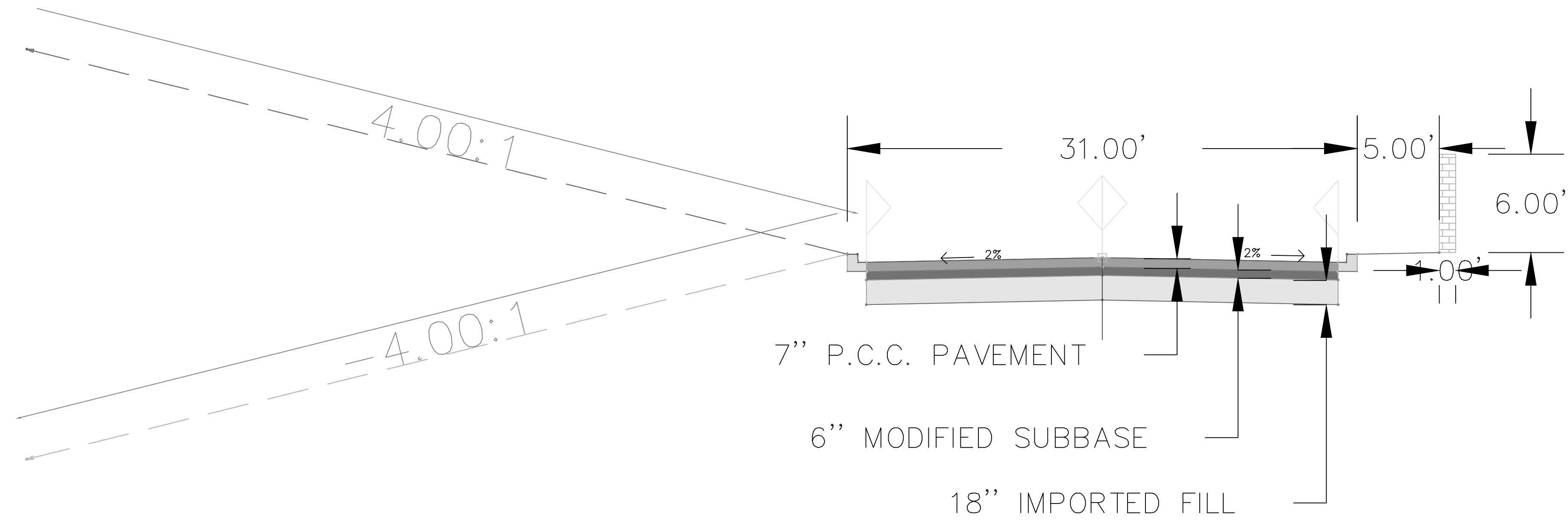
PAVEMENT REPLACEMENT

SHEET NAME

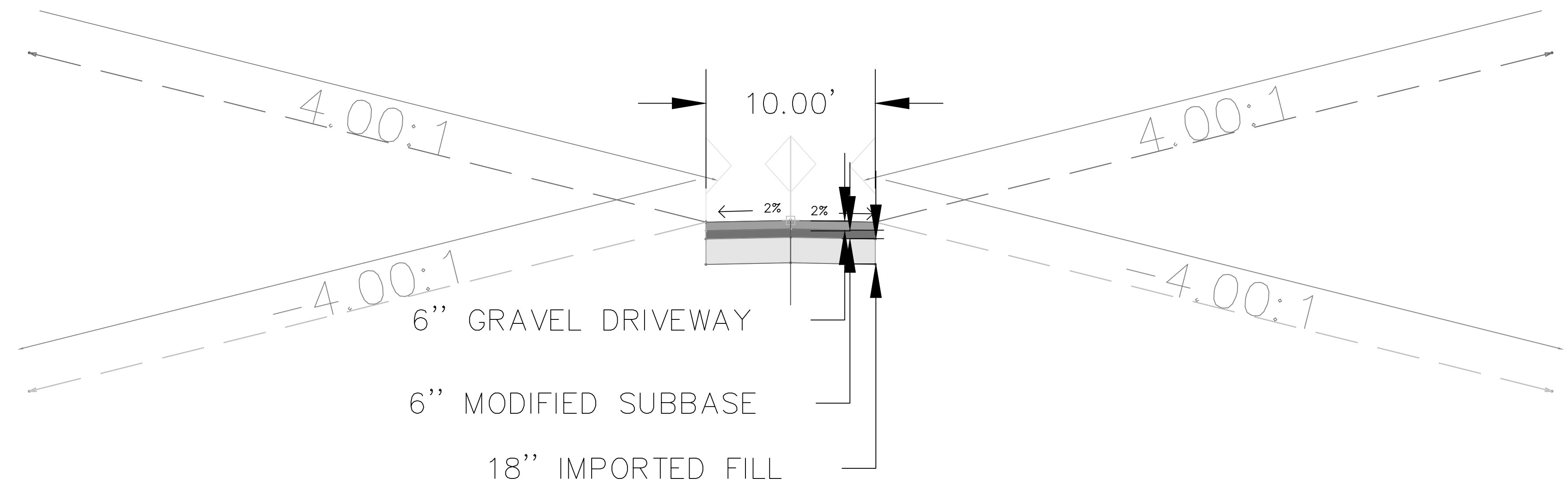
TYPICAL SECTIONS

SHEET NO.

**B.02A**



**FOURTH STREET**  
STA 6+54.02 TO 8+50.00



**FARMHOUSE**  
STA 0+00.00 TO 3+25.61

PROJECT: CEE: 4850  
DATE: 05/08/2026  
DRAWN BY: APH  
REVISION:

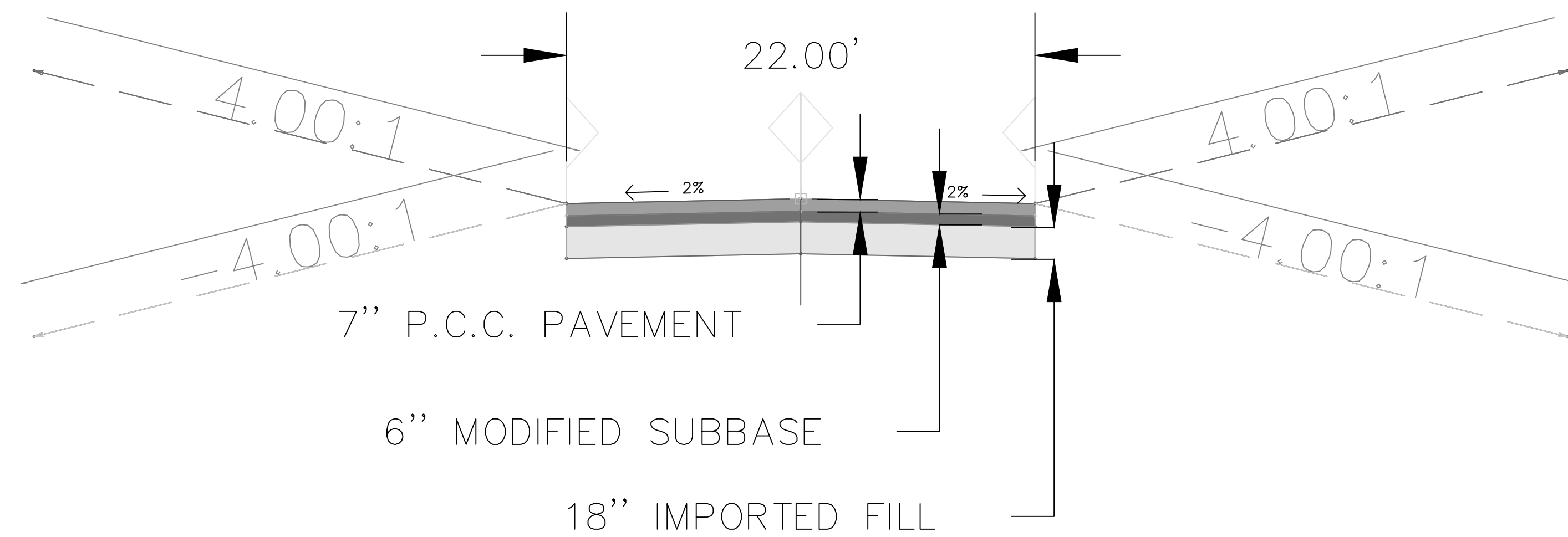
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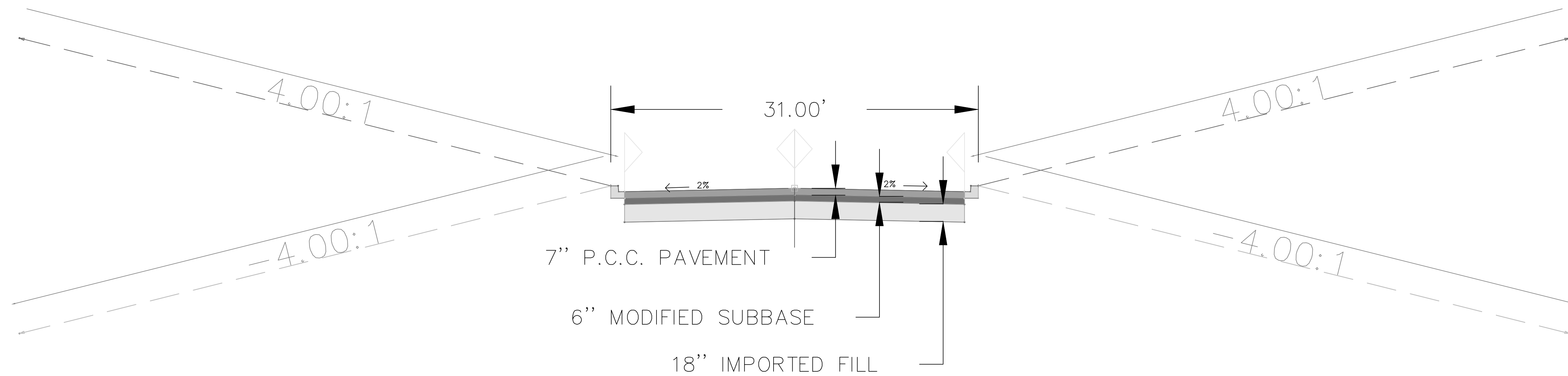
SHEET NAME  
TYPICAL SECTIONS

SHEET NO.  
**B.02B**



**BAKER AVE**

STA 0+00.00 TO 4+10.77



**280TH STREET**

STA 0+00.00 TO 14+60.47

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	APH
REVISION:	

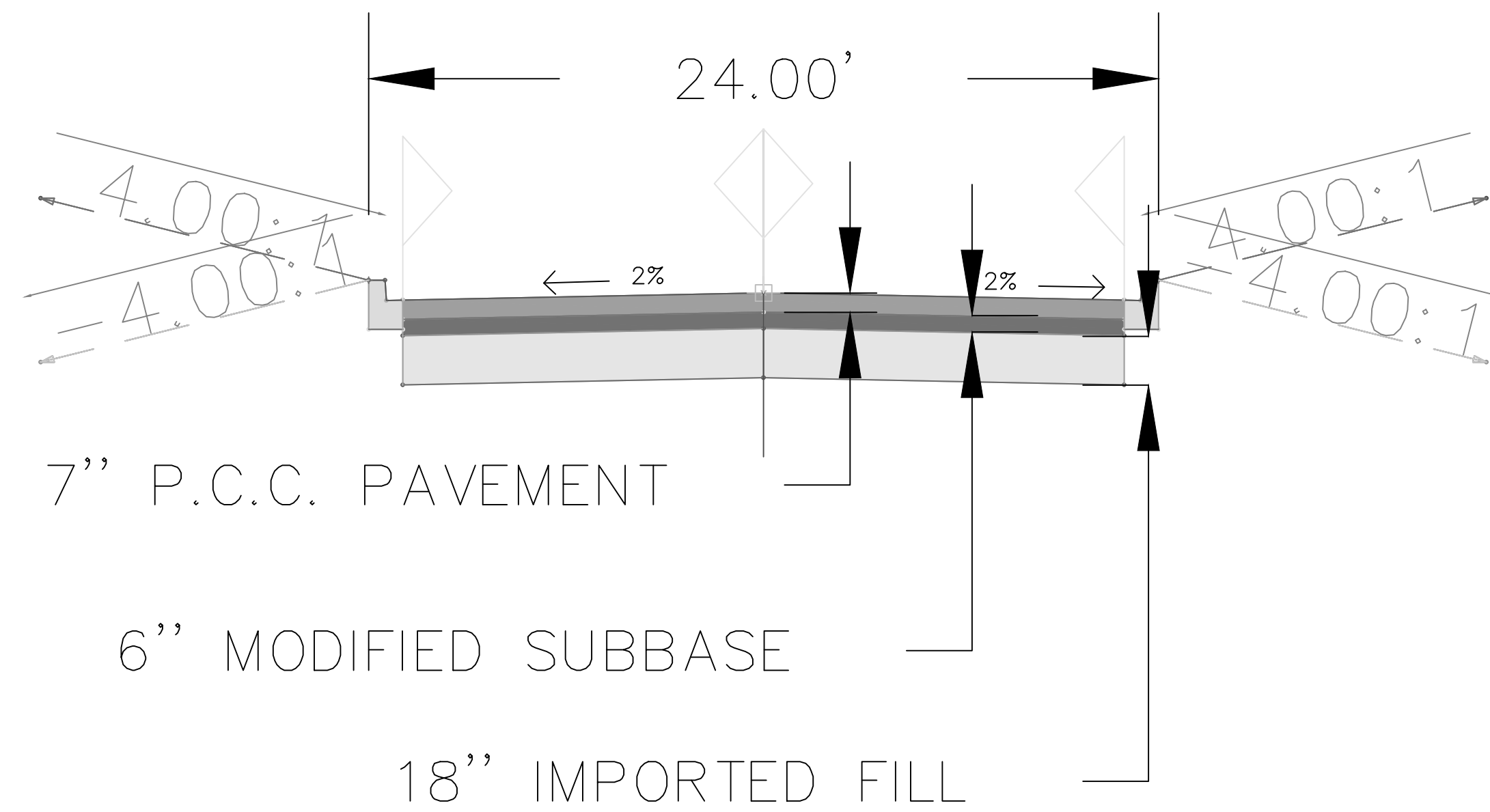
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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

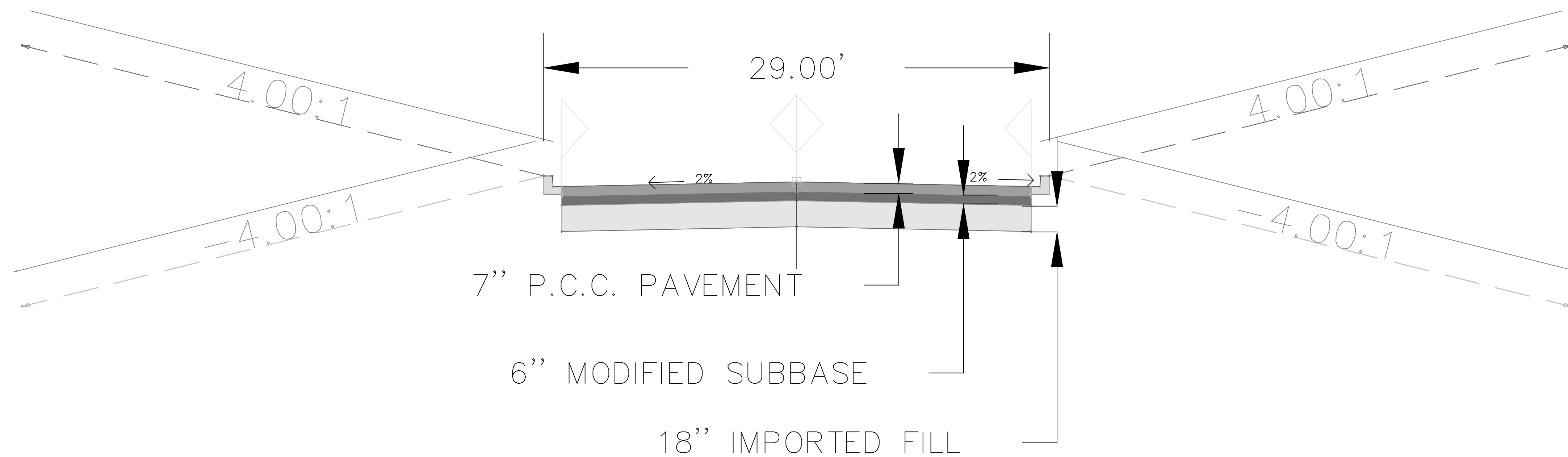
SHEET NAME  
 TYPICAL SECTIONS

SHEET NO.  
**B.03B**



### HOOVER AVE. AT 280TH STREET

STA 0+00.00 TO 1+22.21  
 STA 0+00.00 TO 1+13.99



### HOOVER AVE. AT 4TH STREET

STA 0+00.00 TO 1+21.11

PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: APH  
 REVISION:

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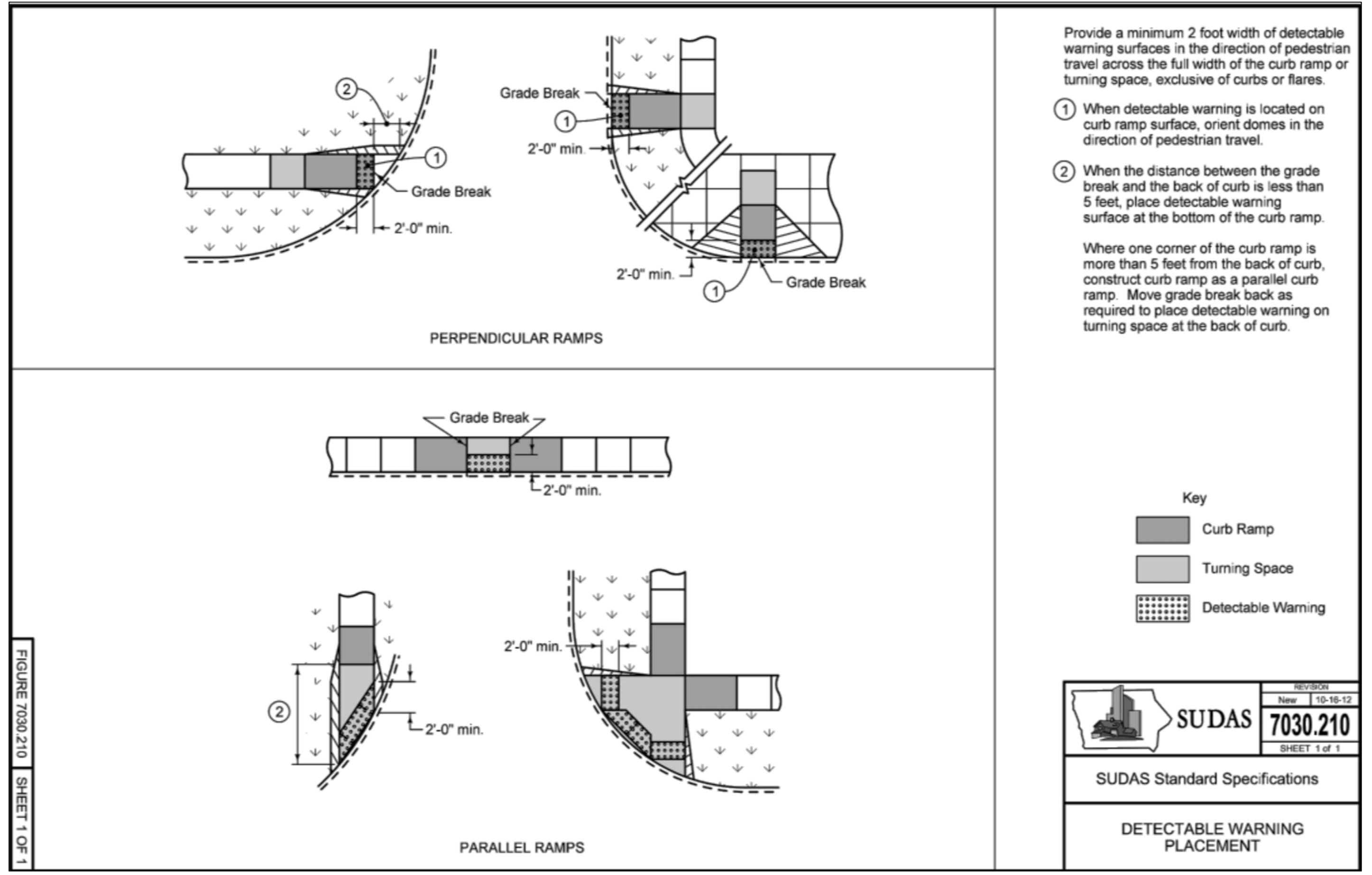
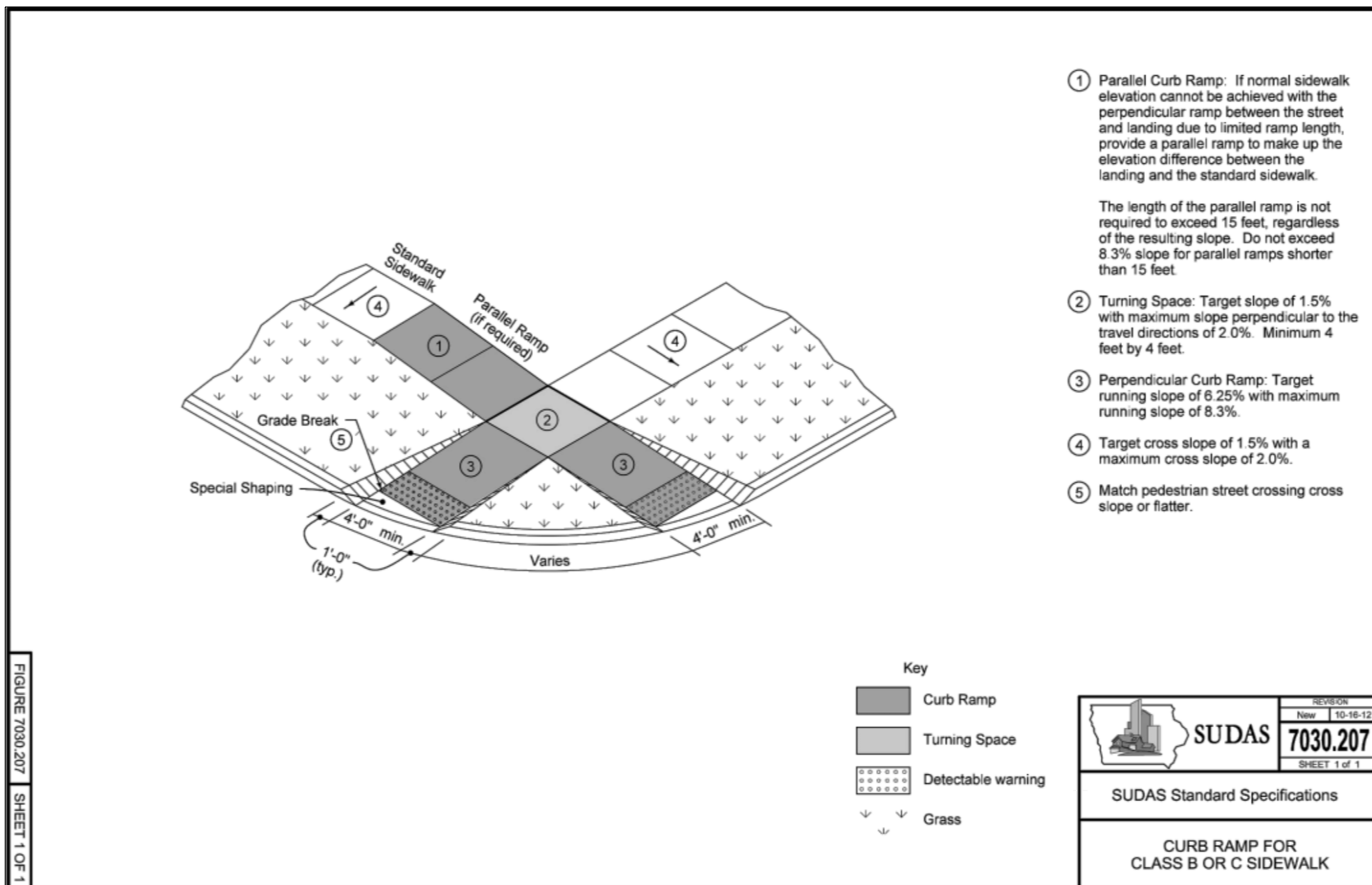
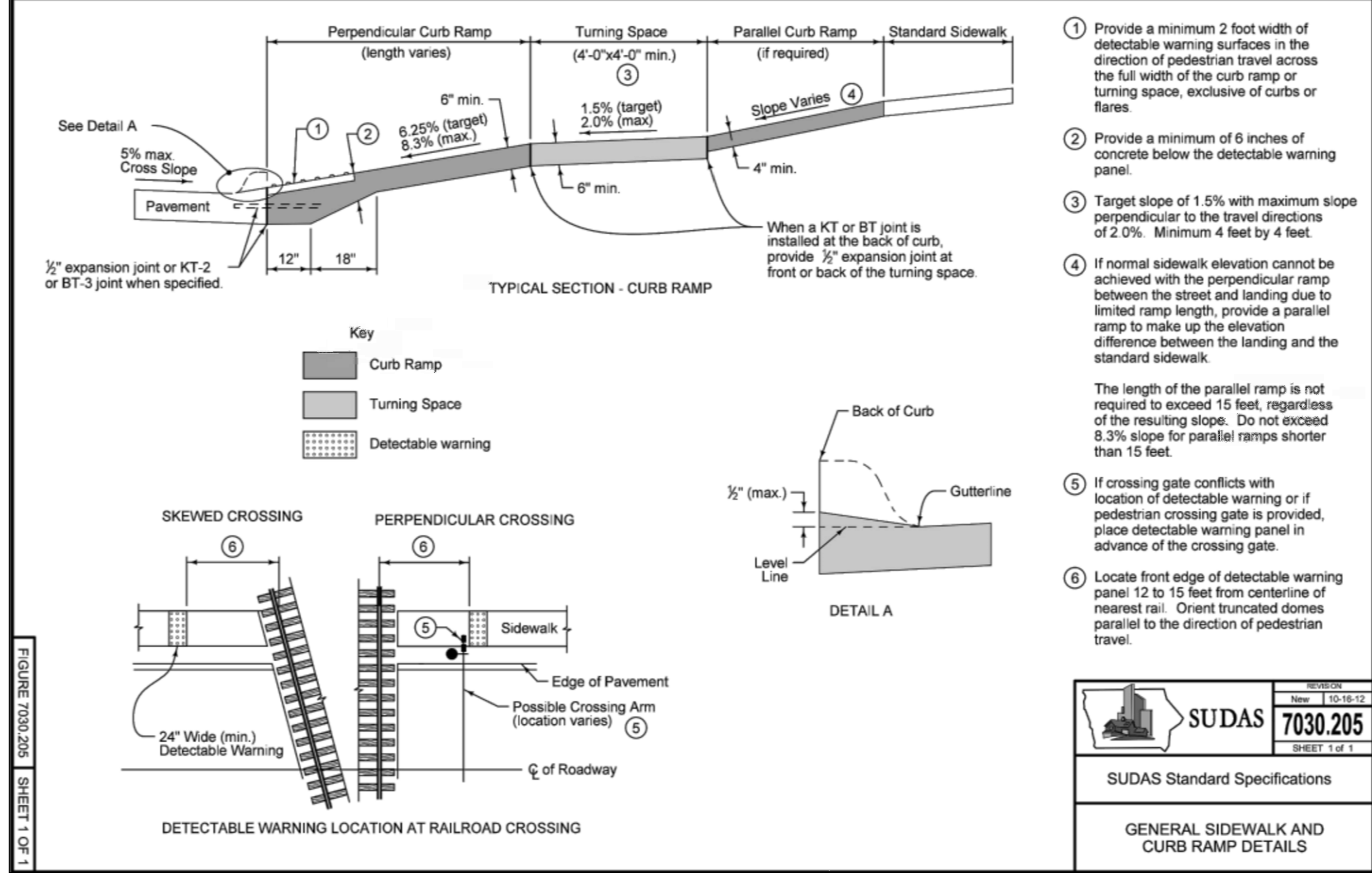
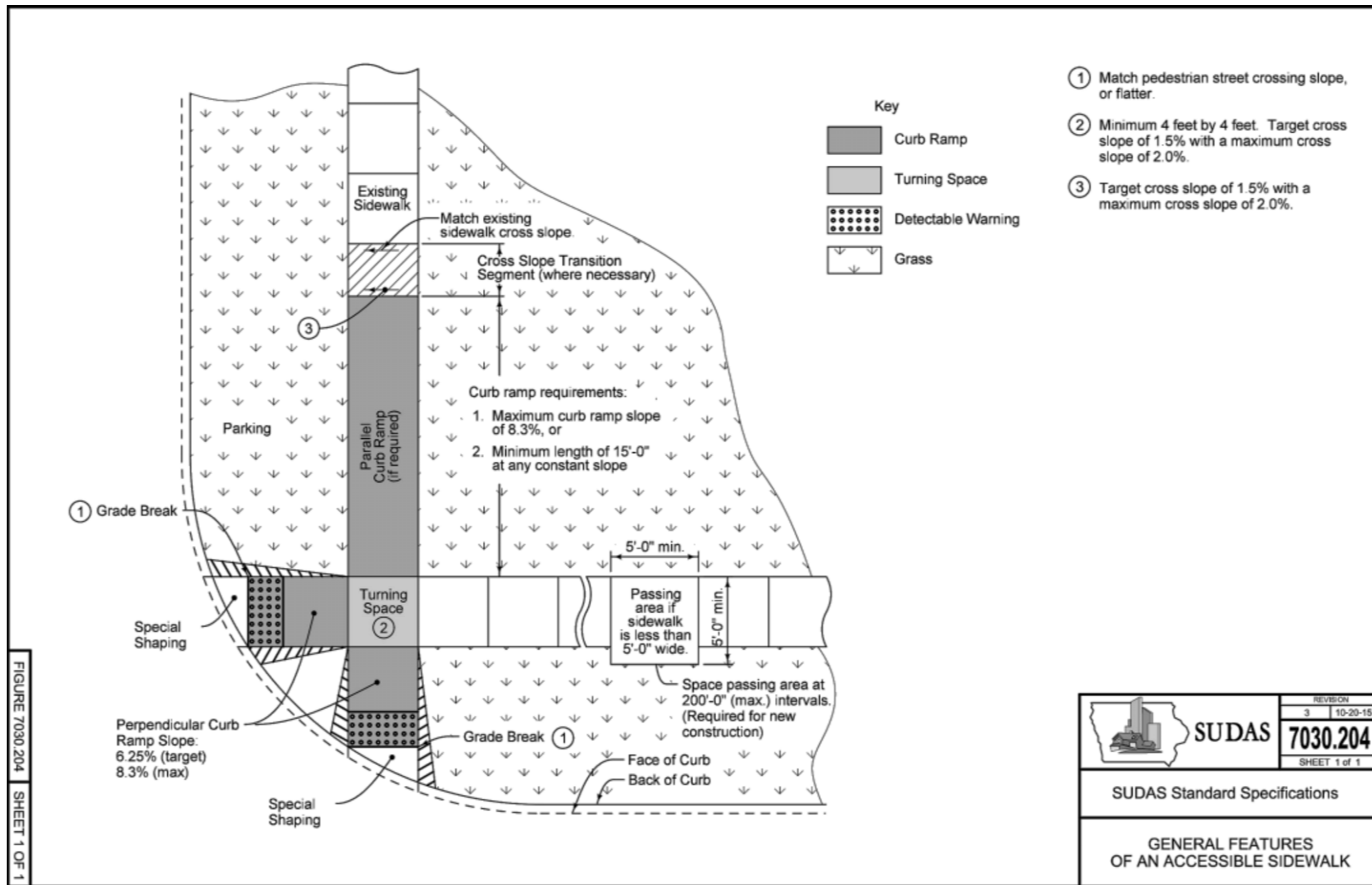
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TRUCK REROUTING AND

PAVEMENT REPLACEMENT

SHEET NAME  
 TYPICAL SECTIONS

SHEET NO.  
**B.04B**



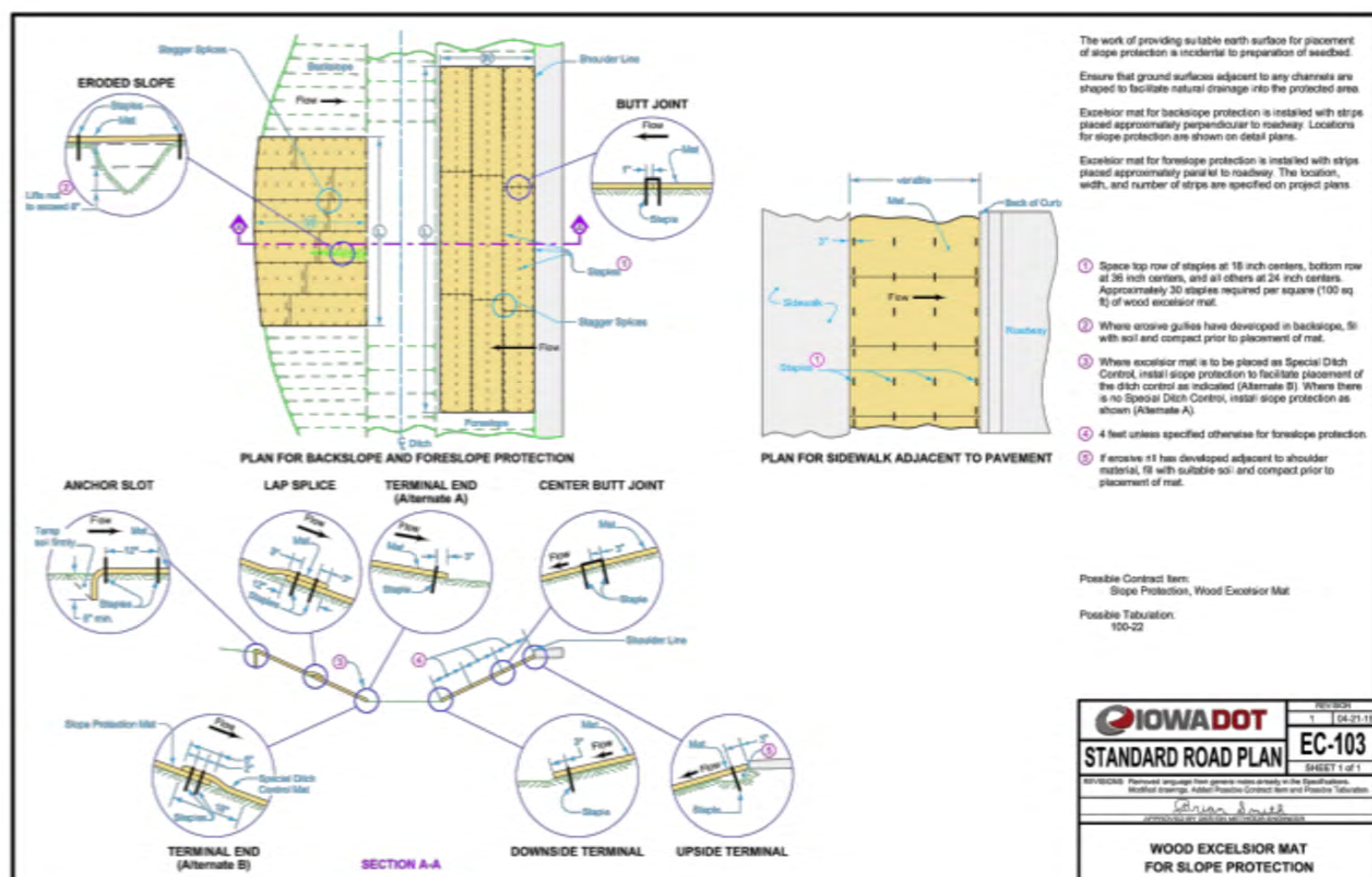
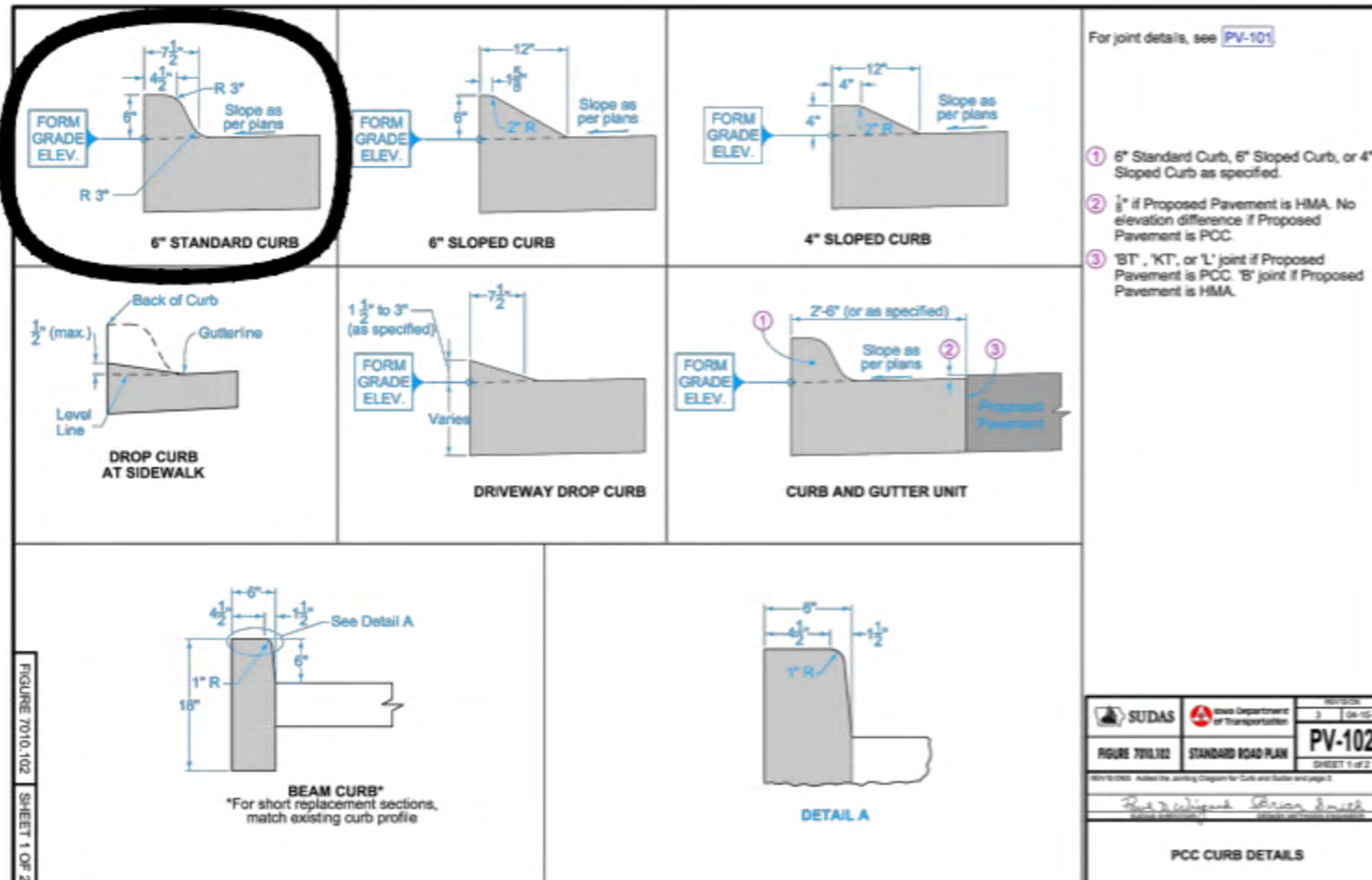
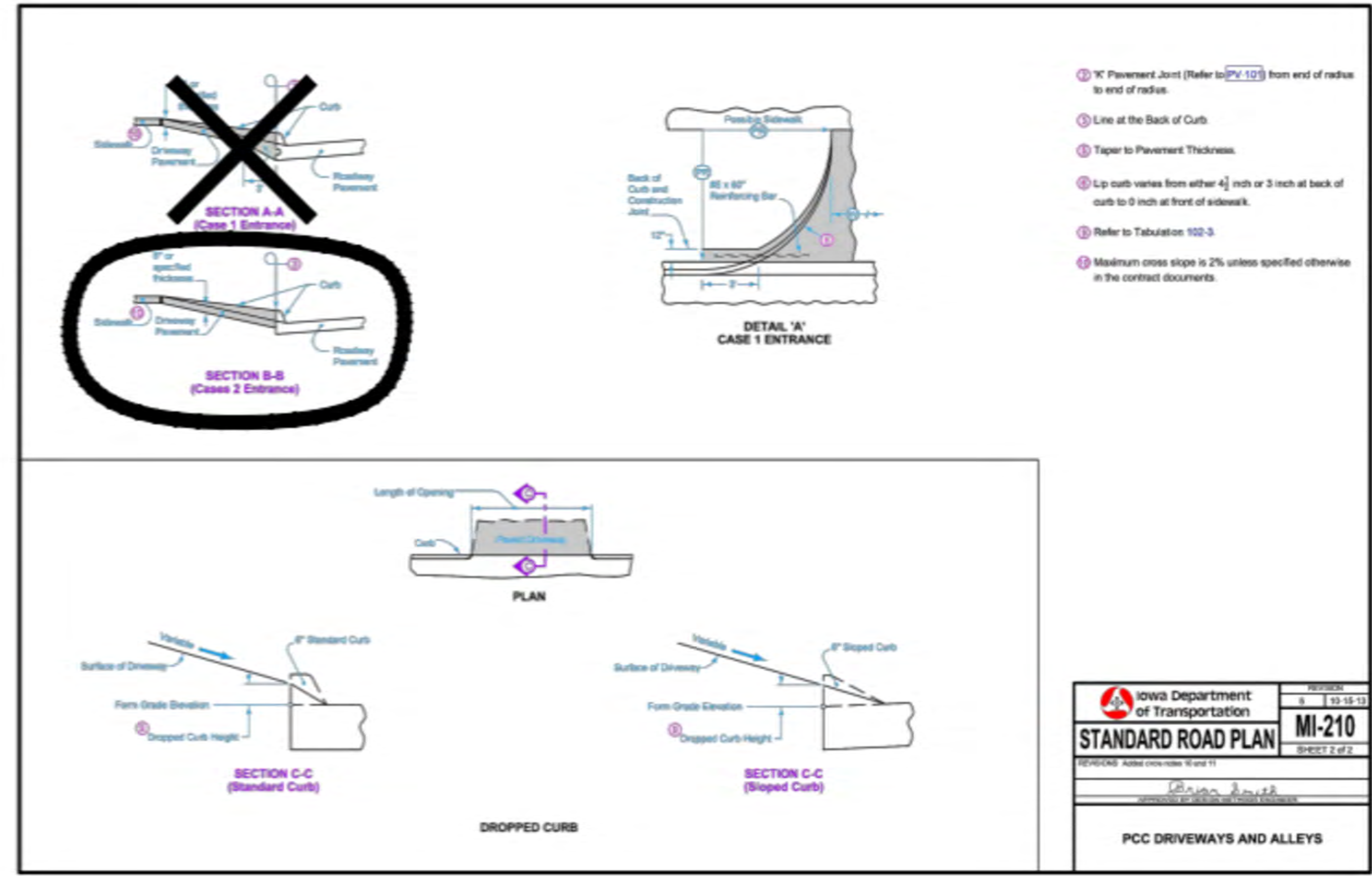
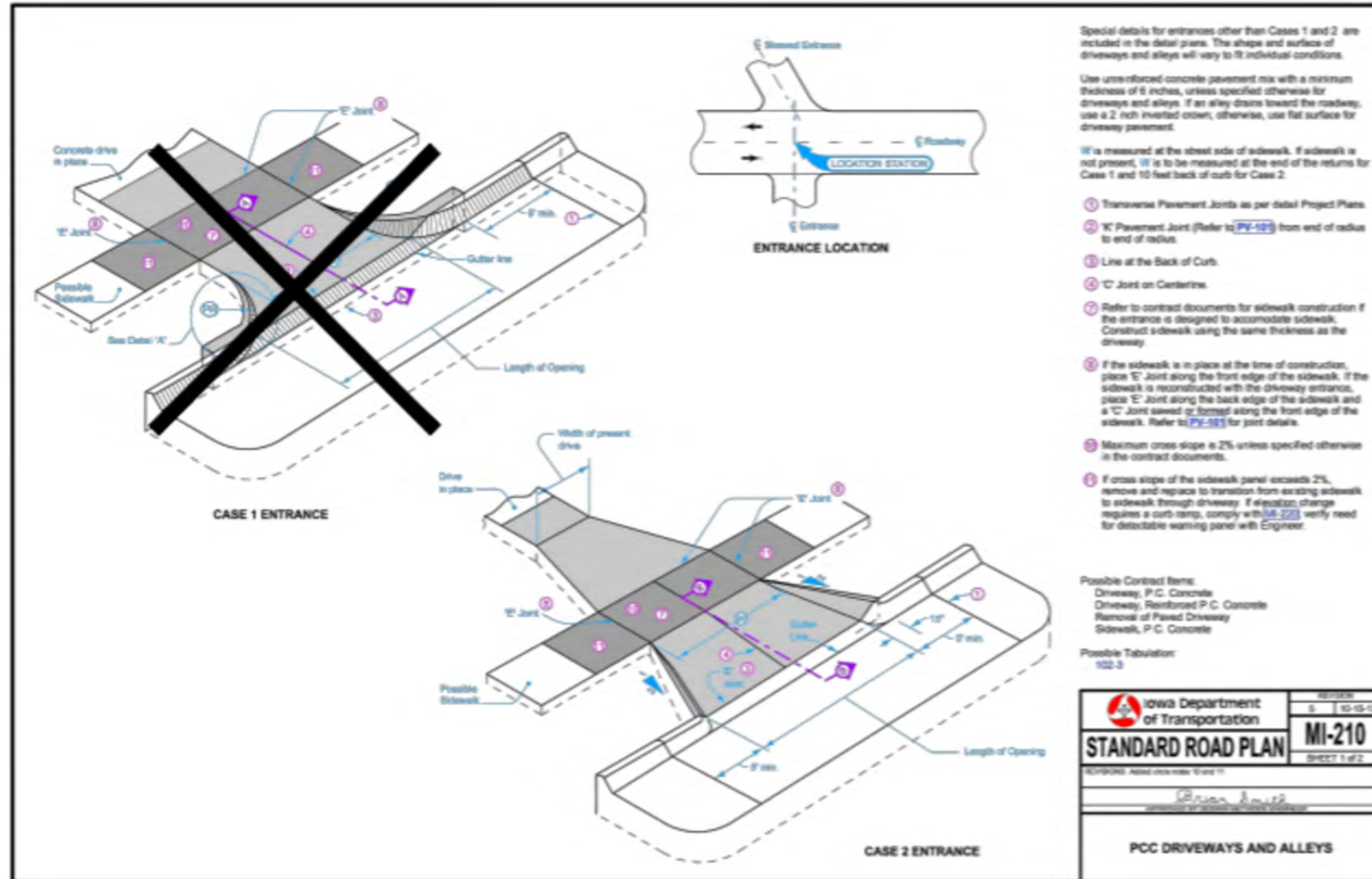
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 DATE: 05/08/2026  
 DRAWN BY: SJH  
 REVISION:  
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TRUCK REROUTING AND PAVEMENT REPLACEMENT

SHEET NAME: SIDEWALK DETAILS

SHEET NO. **B.05**



PROJECT: CEE-4850  
 DATE: 05/08/2026  
 DRAWN BY: SJH  
 REVISION:  
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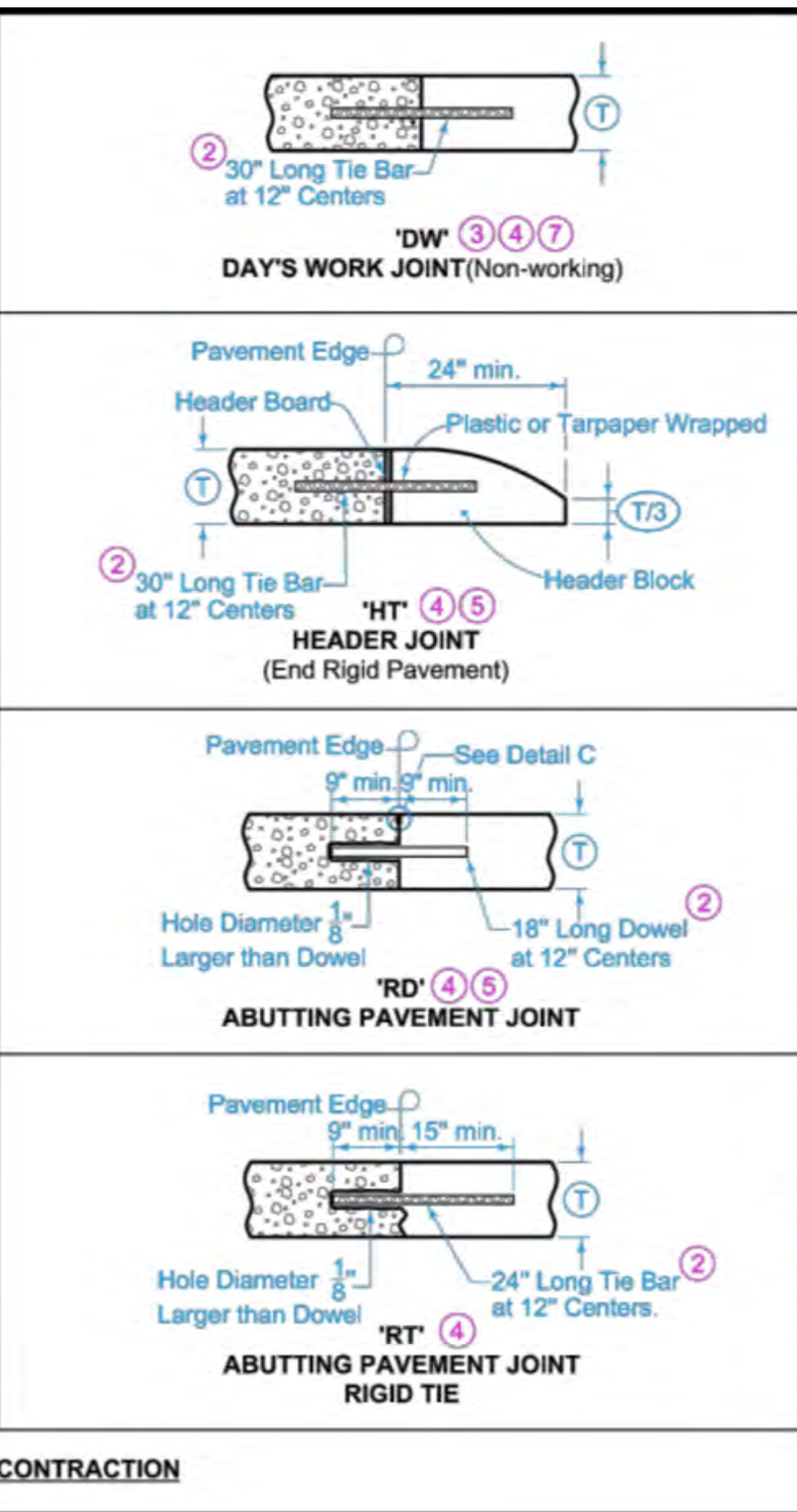
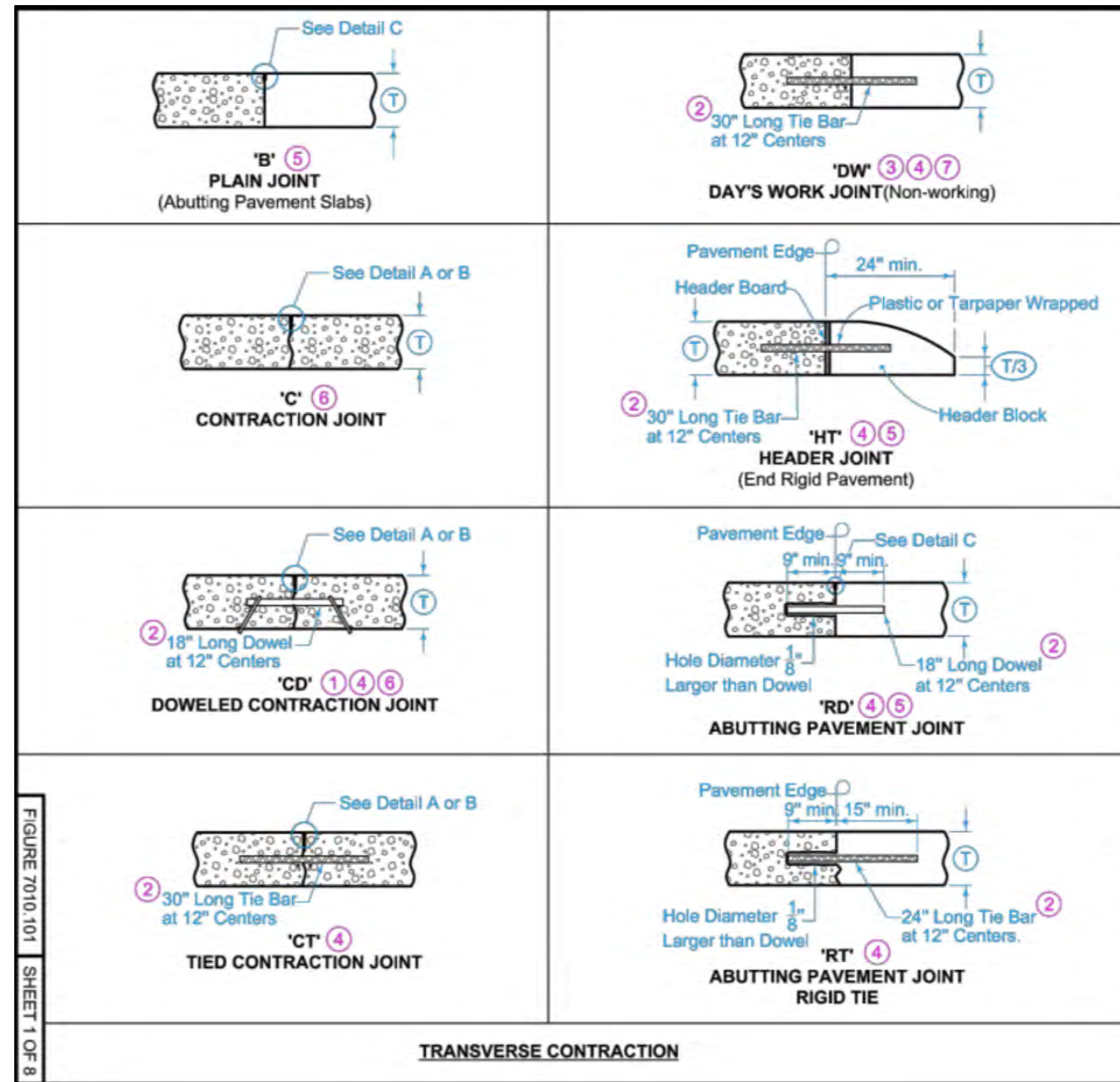
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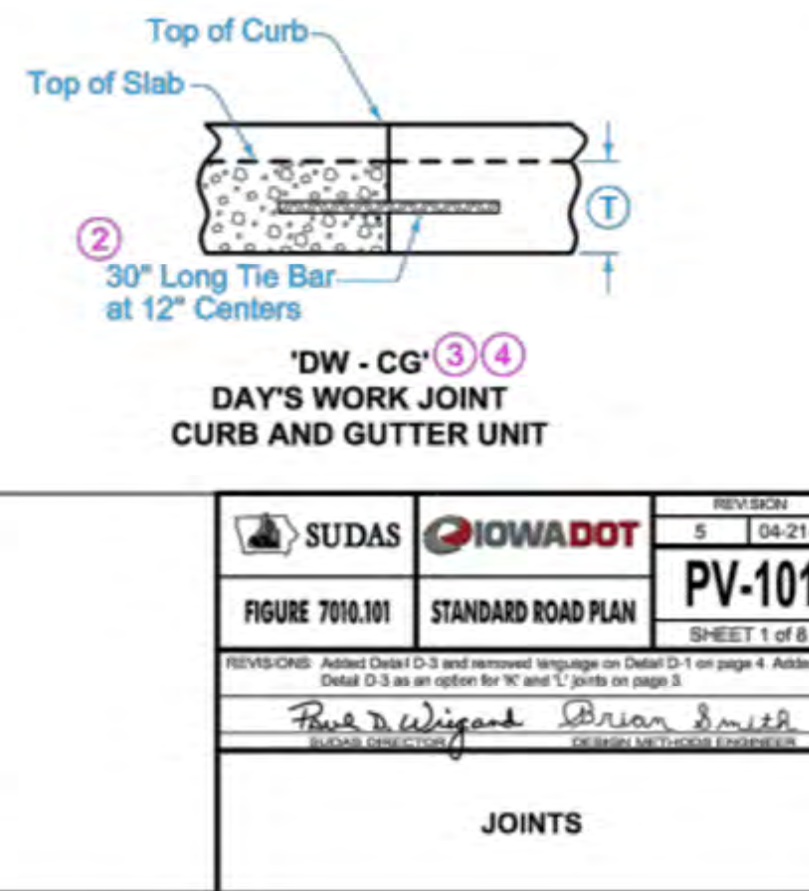
**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 PAVING DETAILS

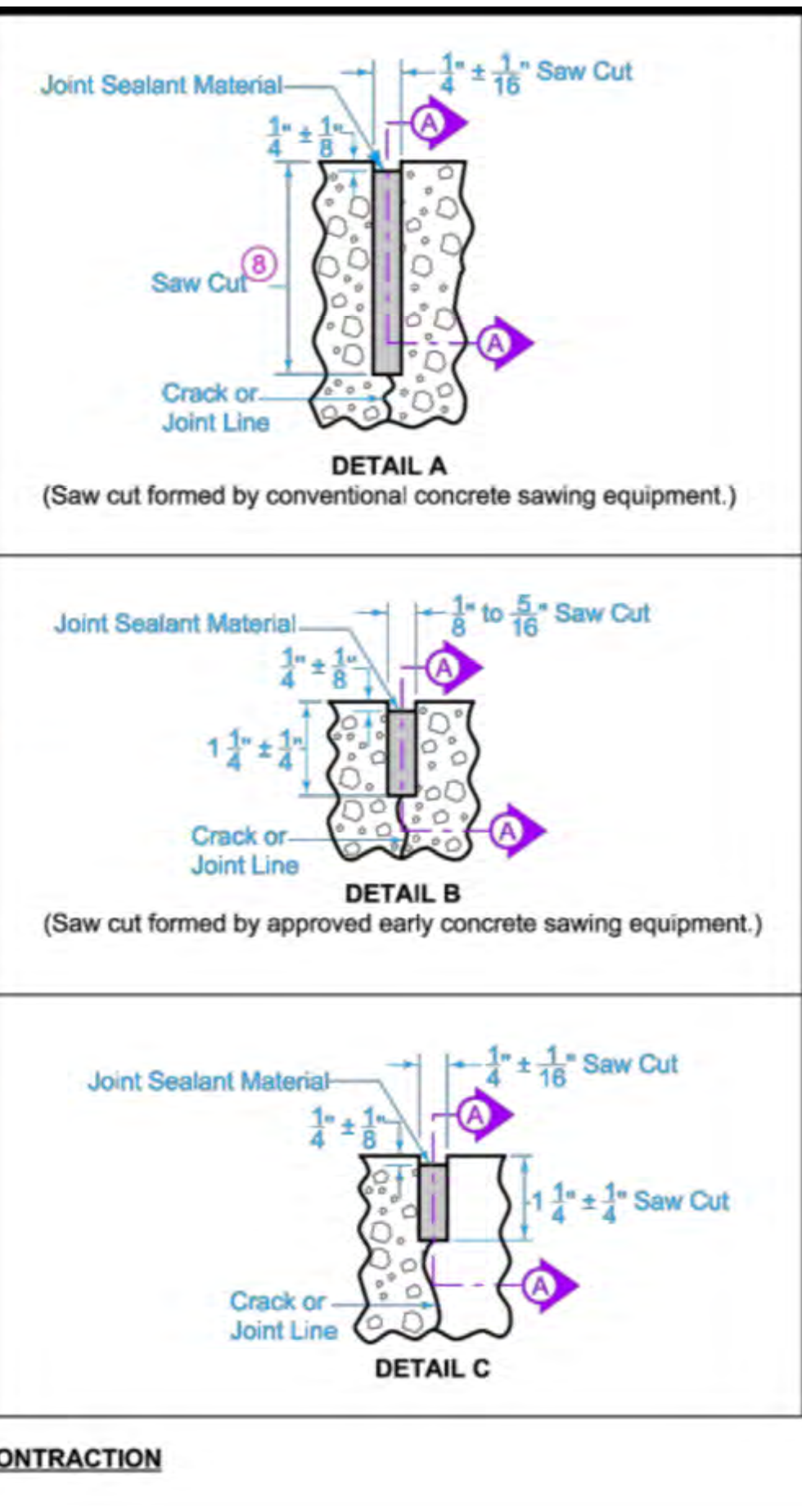
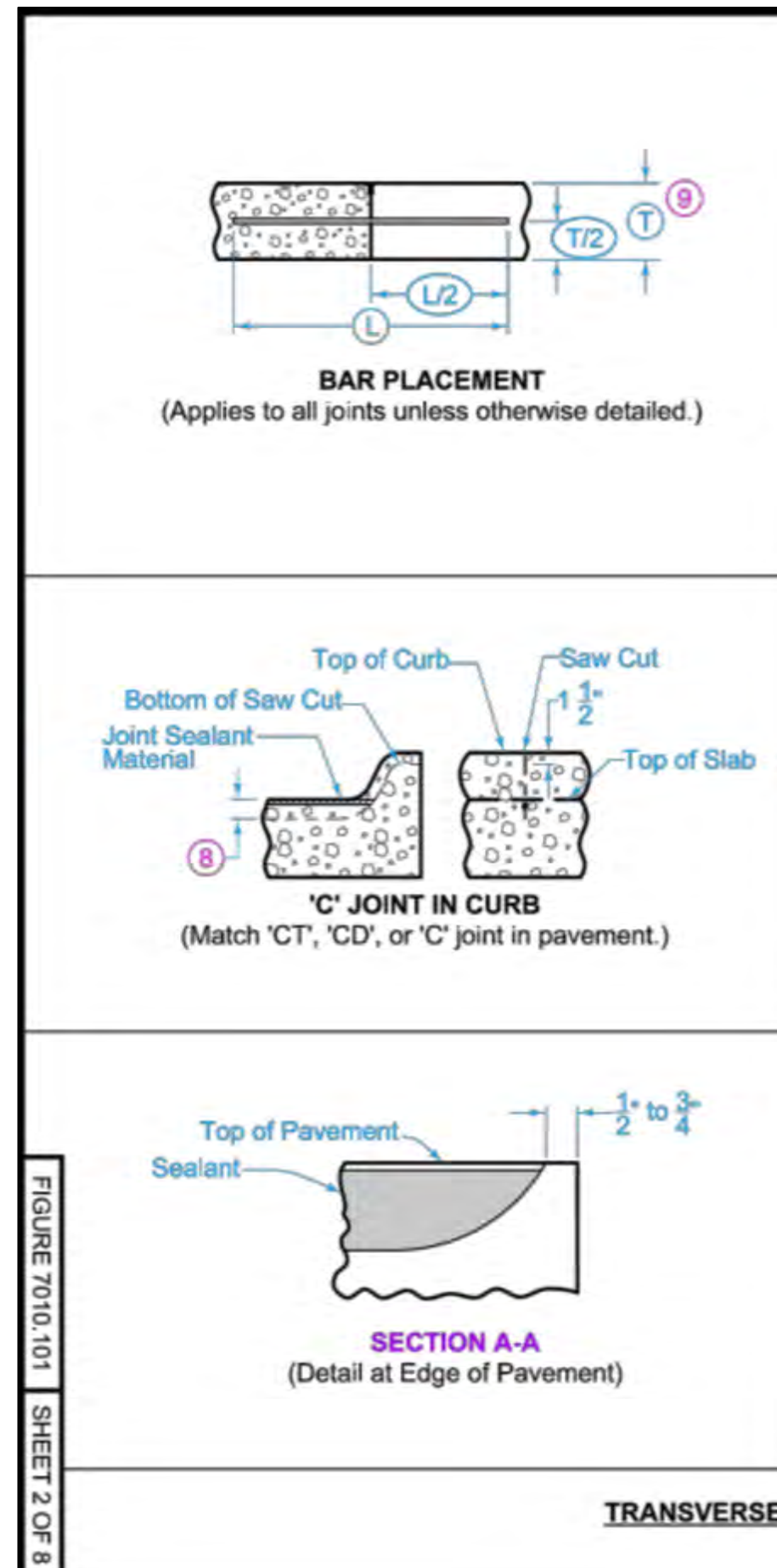
SHEET NO.  
**B.06**



- See dowel assemblies for fabrication details.
- See Bar Size Table.
- Locate 'DW' joint at a mid-panel location between future 'C' or 'CD' joints. Place no closer than 5 feet to a 'C' or 'CD' joint.
- Place bars within the limits shown under dowel assemblies.
- Edge with 1/4 inch tool for length of joint indicated if formed; edging not required when cut with diamond blade saw. Remove header block and board when second slab is placed.
- Unless otherwise specified, use 'CD' transverse contraction joints in mainline pavement when  $T$  is greater or equal to 8 inches. Use 'C' joints when  $T$  is less than 8 inches.
- 'RT' joint may be used in lieu of 'DW' joint at the end of the days work. Remove any pavement damaged due to the drilling at no additional cost to the Contracting Authority.



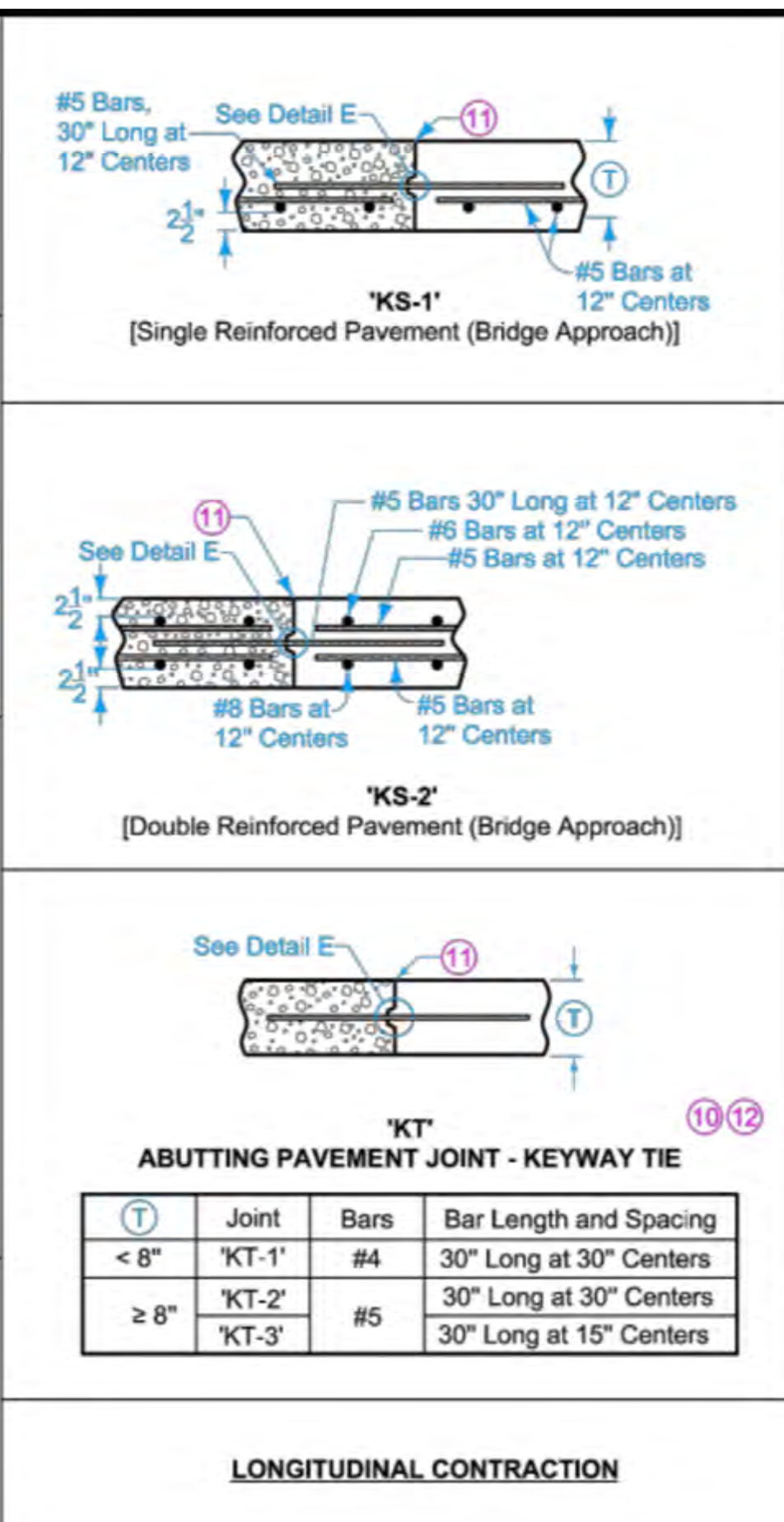
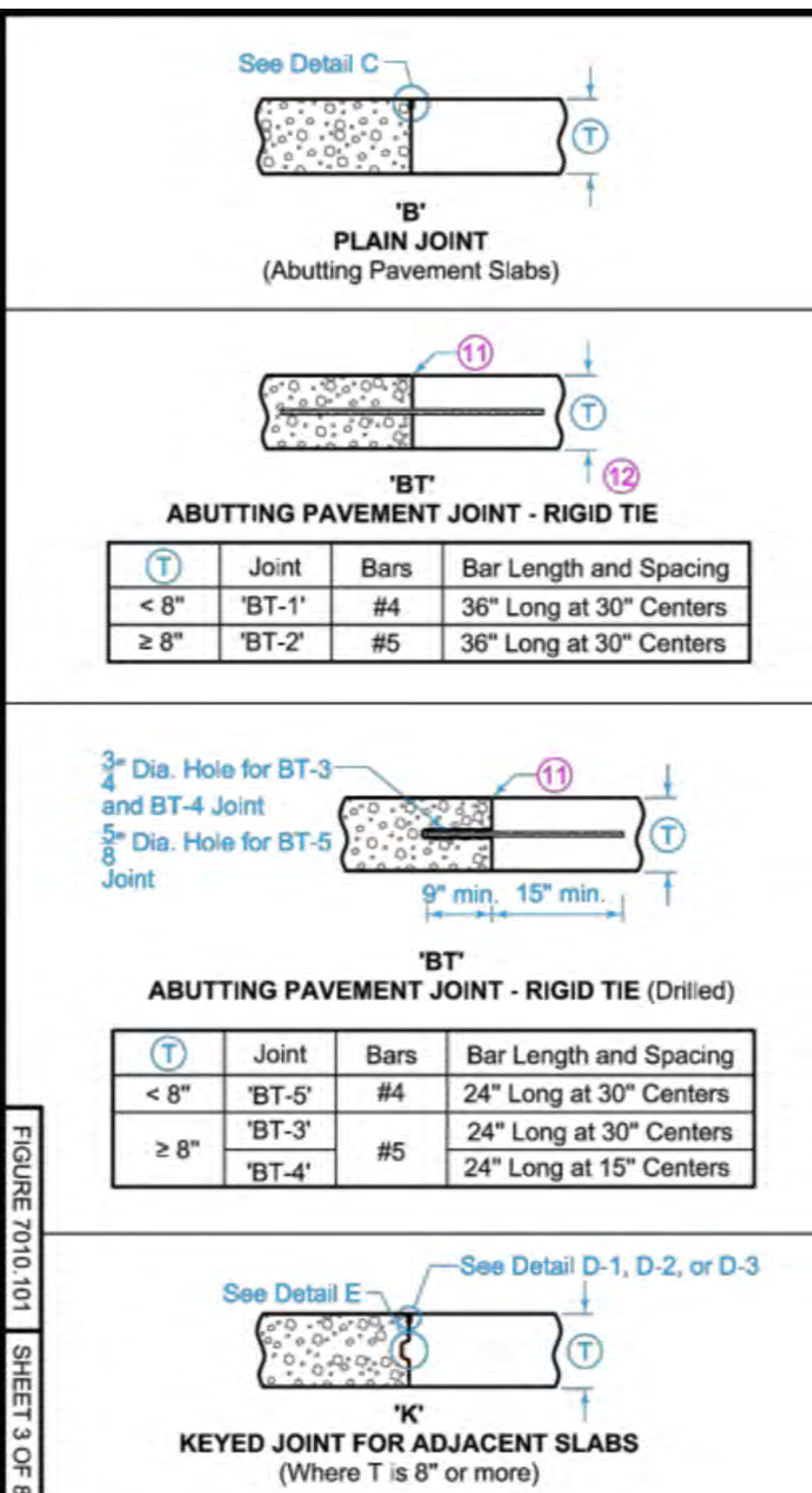
SUDAS	IOWA DOT	REVISION
FIGURE 7010.101	STANDARD ROAD PLAN	PV-101
REVISIONS: Added Detail D-3 and removed language on Detail D-1 on page 4. Added Detail D-3 as an option for 'C' and 'L' joints on page 5.		SHEET 1 of 8
Paul D. Wiegand Brian Smith		DESIGNED BY: PROJECT ENGINEER
JOINTS		



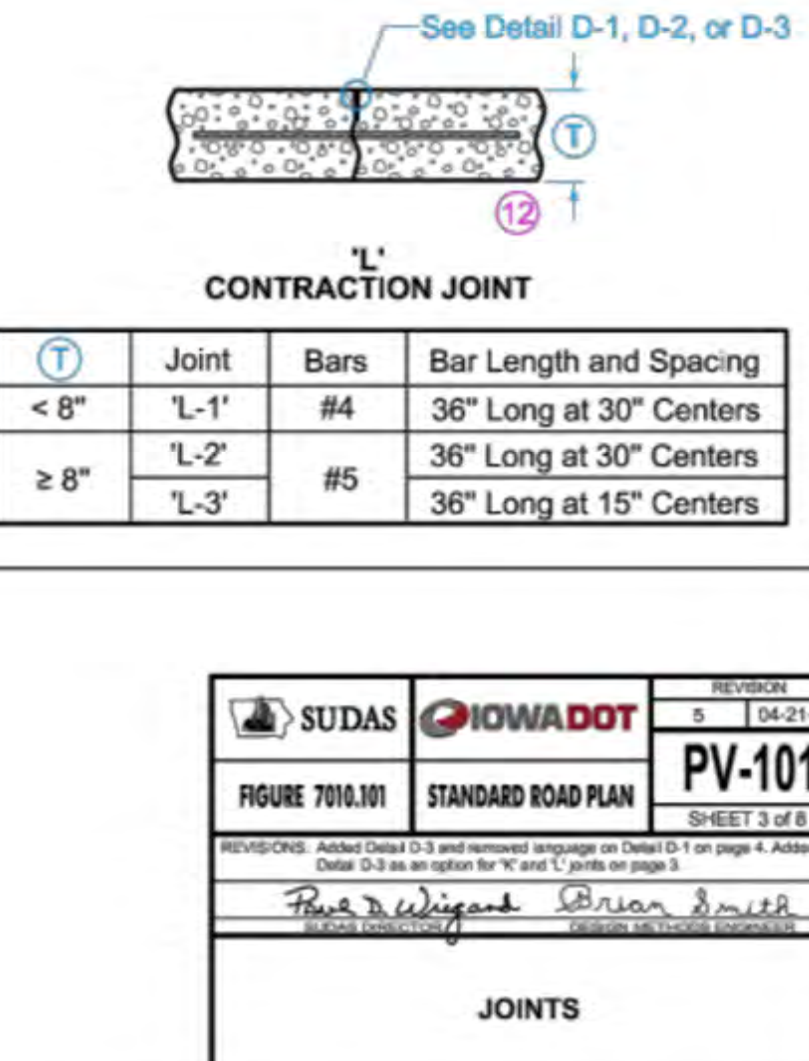
BAR SIZE TABLE		
T	Dowel Diameter	Tie Bar Size
< 8"	3/4"	#6
≥ 8" but < 10"	1 1/4"	#10
≥ 10"	1 1/2"	#11

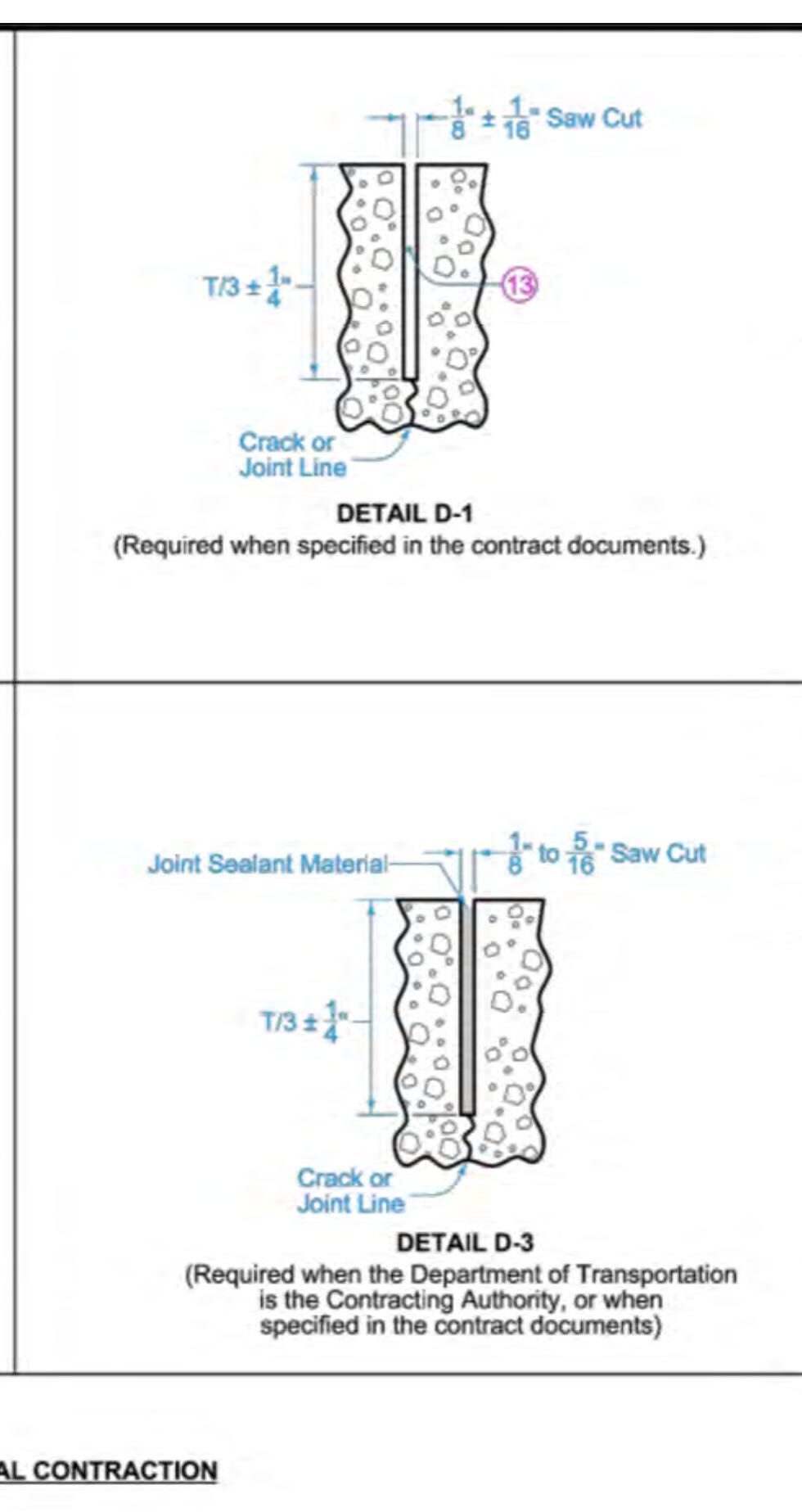
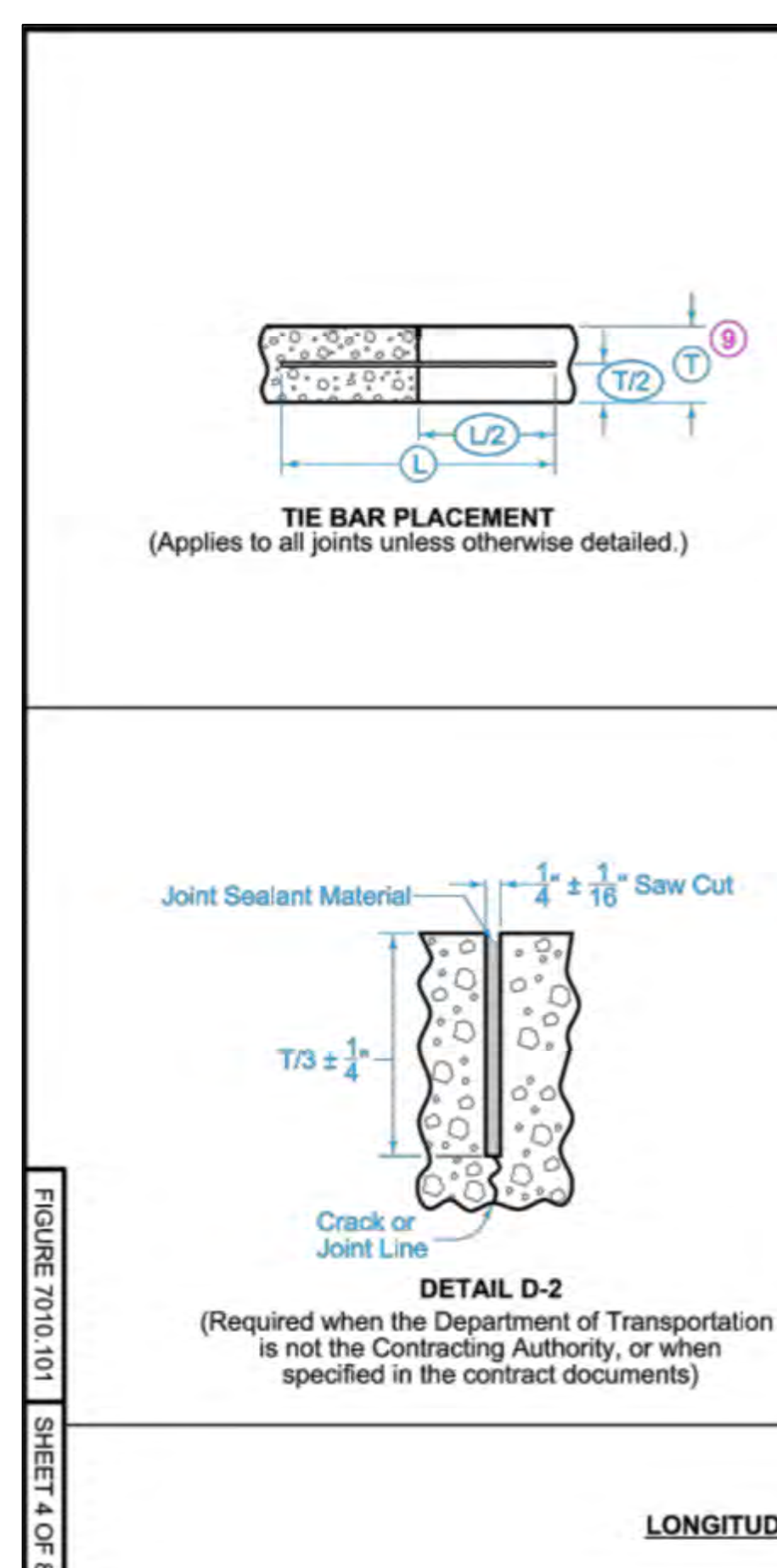
SUDAS	IOWA DOT	REVISION
FIGURE 7010.101	STANDARD ROAD PLAN	PV-101
REVISIONS: Added Detail D-3 and removed language on Detail D-1 on page 4. Added Detail D-3 as an option for 'C' and 'L' joints on page 5.		SHEET 2 of 8
Paul D. Wiegand Brian Smith		DESIGNED BY: PROJECT ENGINEER
JOINTS		



- Bar supports may be necessary for fixed form paving to ensure the bar remains in a horizontal position in the plastic concrete.
- Sawing or sealing of joint not required.
- The following joints are interchangeable, subject to the pouring sequence: 'BT-1', 'L-1', and 'KT-1'; 'KT-2' and 'L-2'; 'KT-3' and 'L-3'.



SUDAS	IOWA DOT	REVISION
FIGURE 7010.101	STANDARD ROAD PLAN	PV-101
REVISIONS: Added Detail D-3 and removed language on Detail D-1 on page 4. Added Detail D-3 as an option for 'C' and 'L' joints on page 5.		SHEET 3 of 8
Paul D. Wiegand Brian Smith		DESIGNED BY: PROJECT ENGINEER
JOINTS		

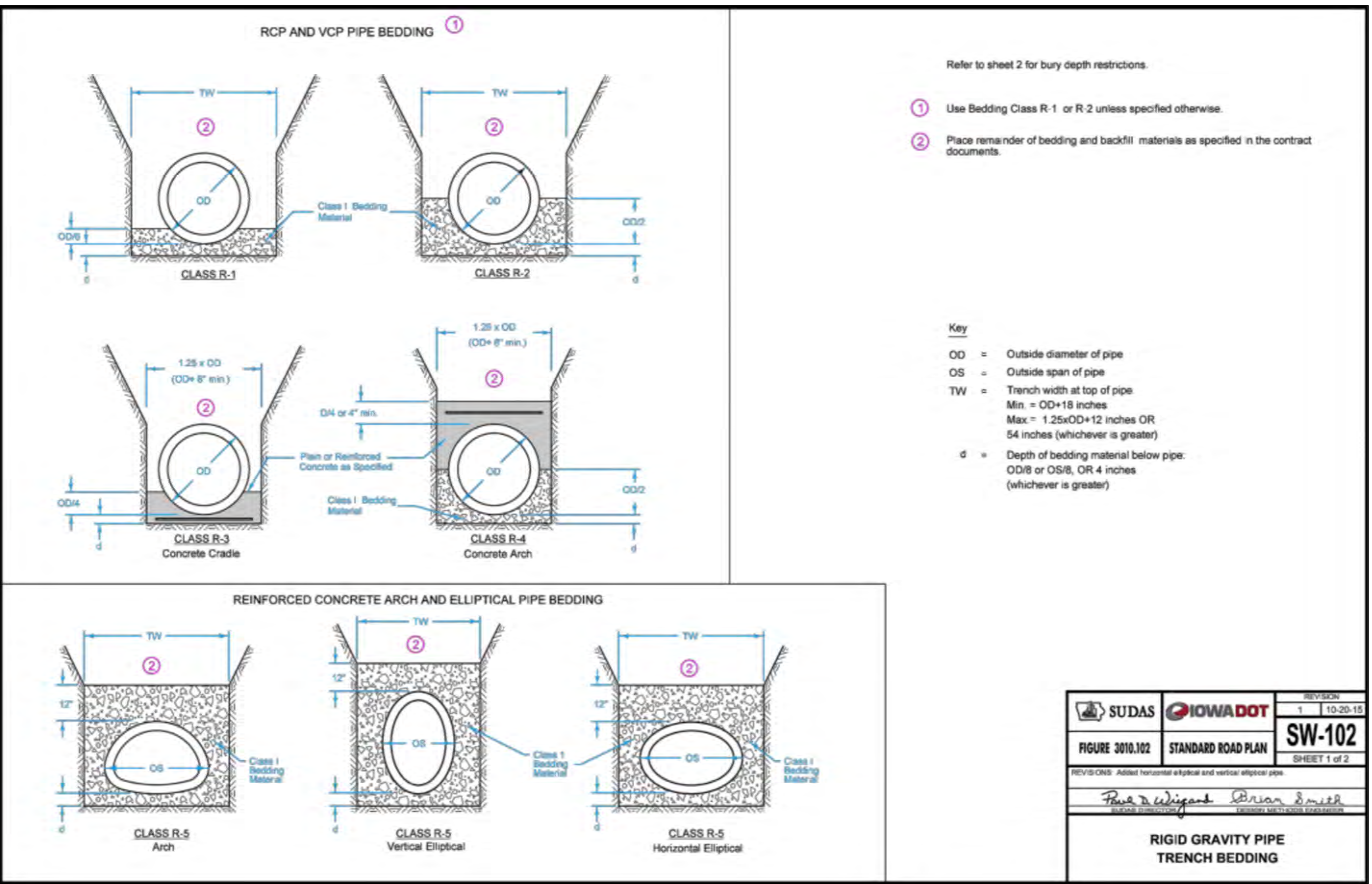
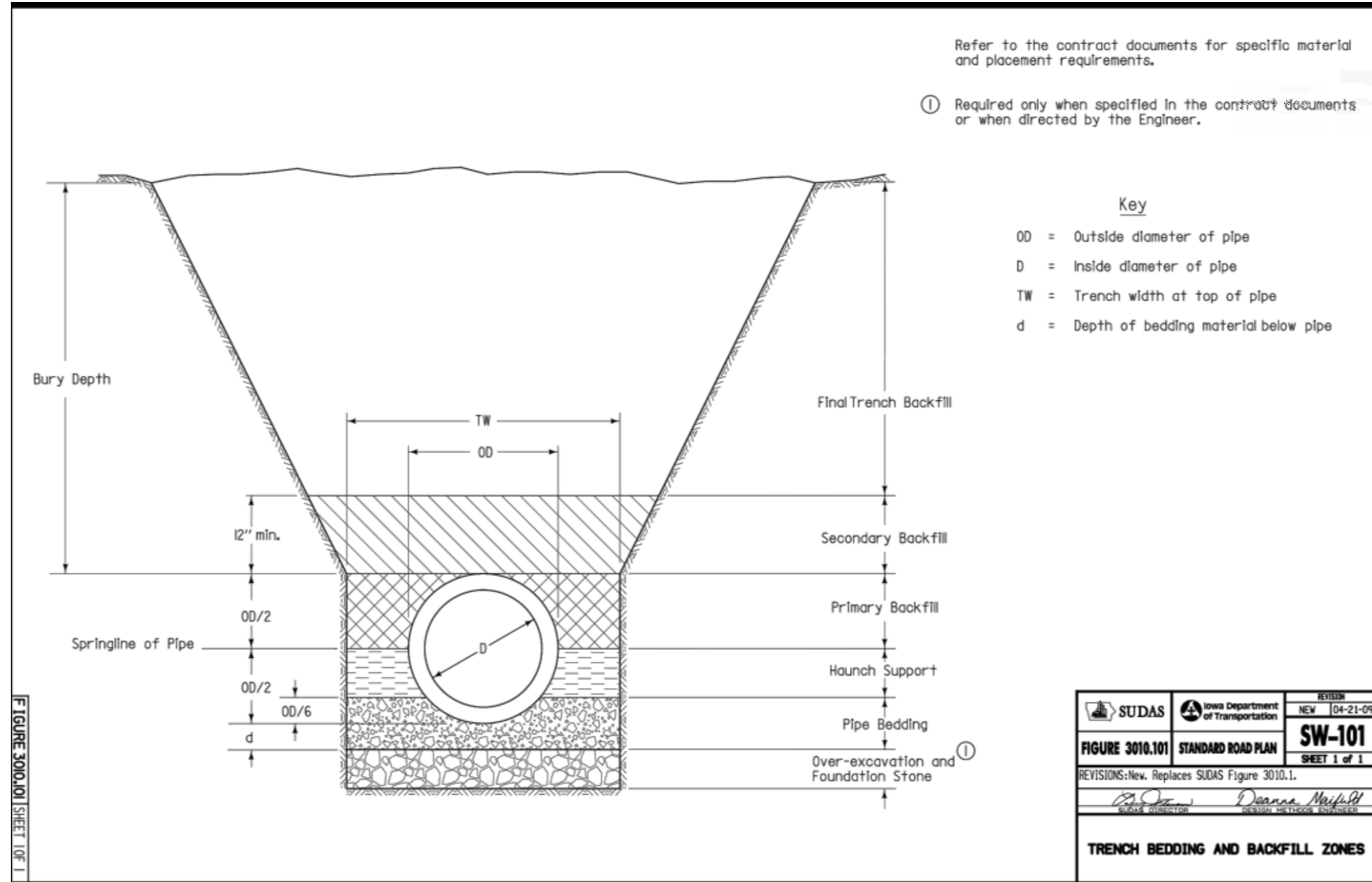
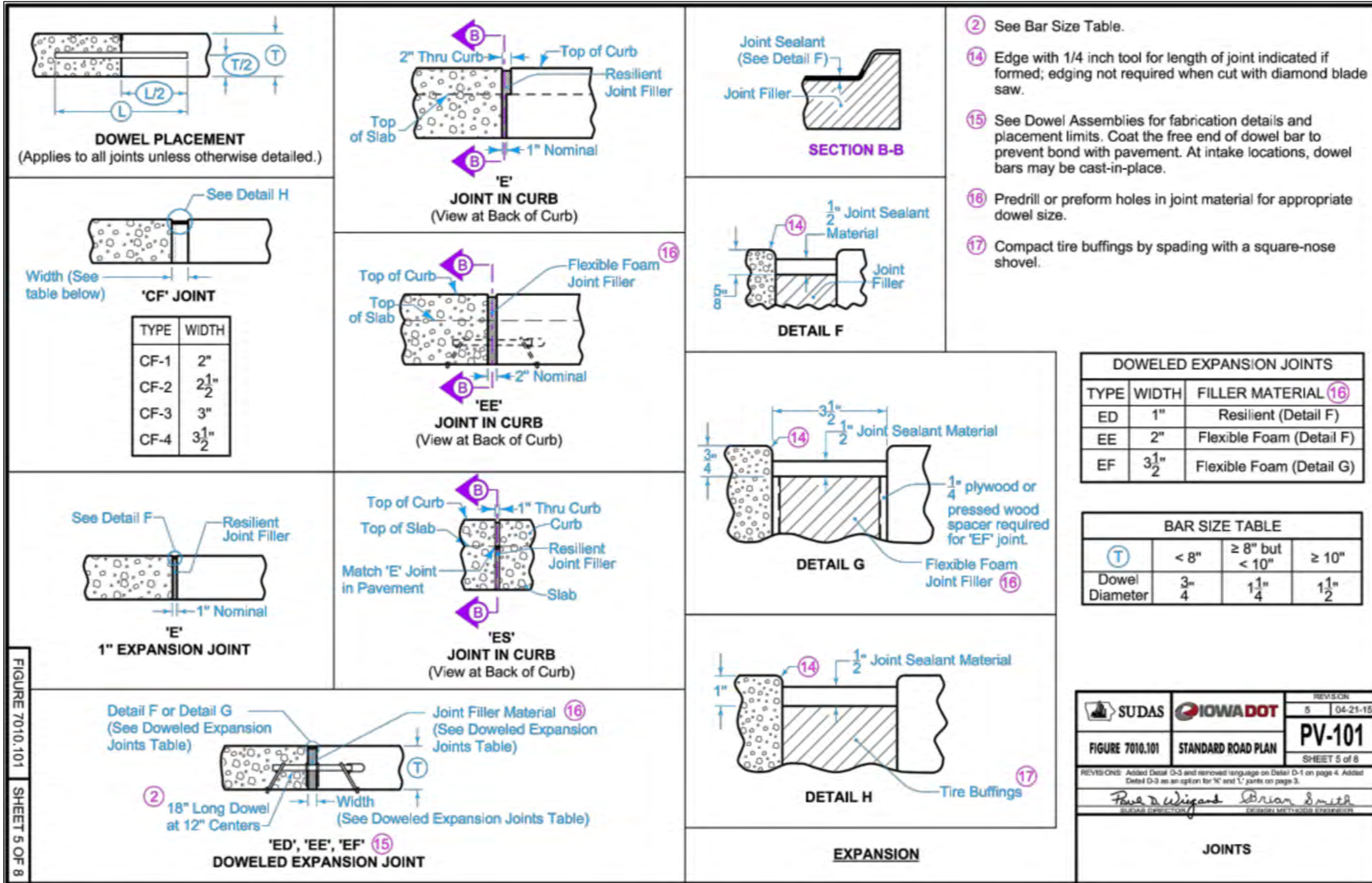


- When tying into old pavement,  $T$  represents the depth of sound PCC.
- Sealant or cleaning not required.

KEYWAY DIMENSIONS			
Keyway Type	Pavement Thickness	A	B
Standard	8" or greater	1 3/4"	2 3/4"
Narrow	Less than 8"	1"	2"

SUDAS	IOWA DOT	REVISION
FIGURE 7010.101	STANDARD ROAD PLAN	PV-101
REVISIONS: Added Detail D-3 and removed language on Detail D-1 on page 4. Added Detail D-3 as an option for 'C' and 'L' joints on page 5.		SHEET 4 of 8
Paul D. Wiegand Brian Smith		DESIGNED BY: PROJECT ENGINEER
JOINTS		



**ALLOWABLE BURY DEPTH**

CLASS III RCP						CLASS IV RCP						CLASS V RCP					
Pipe Diameter (ft)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding			Pipe Diameter (ft)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding			Pipe Diameter (ft)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding		
			No Steel	As=0.4%	As=1.0%				No Steel	As=0.4%	As=1.0%				No Steel	As=0.4%	As=1.0%
12	7'	10'	15'	19'	27'	12	12'	15'	23'	28'	40'	12	18'	23'	35'	40'	40'
15	8'	10'	16'	19'	27'	15	12'	16'	23'	30'	40'	15	18'	24'	40'	40'	40'
18	8'	11'	16'	20'	40'	18	13'	16'	29'	40'	40'	18	19'	30'	40'	40'	40'
21	8'	11'	16'	26'	40'	21	13'	18'	40'	40'	40'	21	25'	40'	40'	40'	40'
24	8'	12'	23'	36'	40'	24	16'	23'	40'	40'	40'	24	34'	40'	40'	40'	40'
27	10'	15'	30'	40'	40'	27	19'	30'	40'	40'	40'	27	40'	40'	40'	40'	40'
30	11'	15'	29'	40'	40'	30	19'	29'	40'	40'	40'	30	40'	40'	40'	40'	40'
33	11'	15'	28'	40'	40'	33	19'	28'	40'	40'	40'	33	40'	40'	40'	40'	40'
36	11'	15'	27'	40'	40'	36	19'	28'	40'	40'	40'	36	40'	40'	40'	40'	40'
42	11'	15'	28'	38'	40'	42	18'	27'	40'	40'	40'	42	37'	40'	40'	40'	40'
48	11'	15'	25'	36'	40'	48	18'	26'	40'	40'	40'	48	35'	40'	40'	40'	40'
54	11'	15'	25'	34'	40'	54	18'	25'	40'	40'	40'	54	33'	40'	40'	40'	40'
60	11'	15'	25'	33'	40'	60	18'	25'	40'	40'	40'	60	32'	40'	40'	40'	40'
66	11'	15'	24'	32'	40'	66	18'	25'	40'	40'	40'	66	31'	40'	40'	40'	40'
72	11'	15'	24'	32'	40'	72	18'	24'	40'	40'	40'	72	31'	40'	40'	40'	40'

As = Area of Steel Reinforcing

**EXTRA STRENGTH VCP**

Pipe Dia (ft)	Bedding Class				Pipe Size (inch by inch)	Equiv Dia (ft)	Pipe Class	
	R-1	R-2	R-3 & R-4				A-III	A-IV
6	25'	30'	30'	30'	18 x 11	15	6'	11'
8	25'	26'	30'	30'	22 x 13	18	6'	11'
10	18'	23'	30'	30'	26 x 15	21	6'	13'
12	16'	20'	30'	30'	29 x 18	24	7'	15'
15	15'	19'	28'	30'	36 x 22	30	8'	15'
18	14'	18'	30'	30'	44 x 27	36	8'	14'
21	15'	22'	30'	30'	51 x 31	42	8'	15'
24	18'	28'	30'	30'	58 x 36	48	8'	15'
27	20'	30'	30'	30'	65 x 40	54	8'	15'
30	19'	29'	30'	30'	73 x 45	60	8'	14'
33	22'	30'	30'	30'	88 x 54	72	9'	14'
36	20'	30'	30'	30'	91 x 31	42	8'	15'
39	19'	29'	30'	30'	98 x 36	48	8'	15'
42	18'	28'	30'	30'	106 x 42	54	8'	15'

Based on Class R-5 bedding

**CONCRETE ARCH PIPE**

Pipe Dia (ft)	Pipe Size (ft x ft)	Pipe Class	
		HE-III	HE-IV
14	23	18	22'
19	30	24	29'
22	34	27	28'
24	38	30	27'
27	42	33	27'
29	45	36	26'
32	49	39	26'
34	54	42	25'
38	60	48	25'
43	66	54	24'
48	76	60	24'
53	83	66	24'
58	91	72	24'
63	98	78	23'
68	106	84	23'

Based on Class R-5 bedding

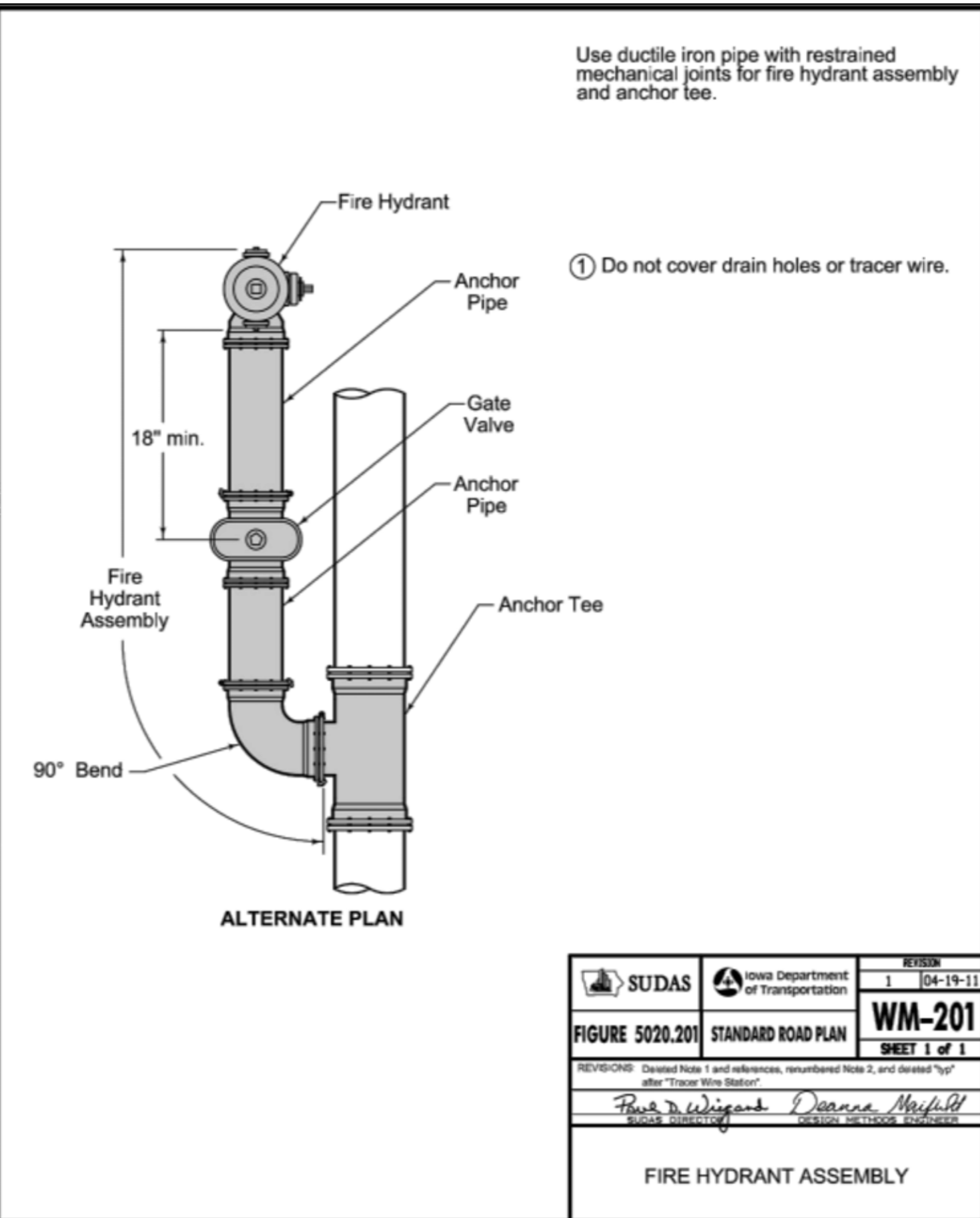
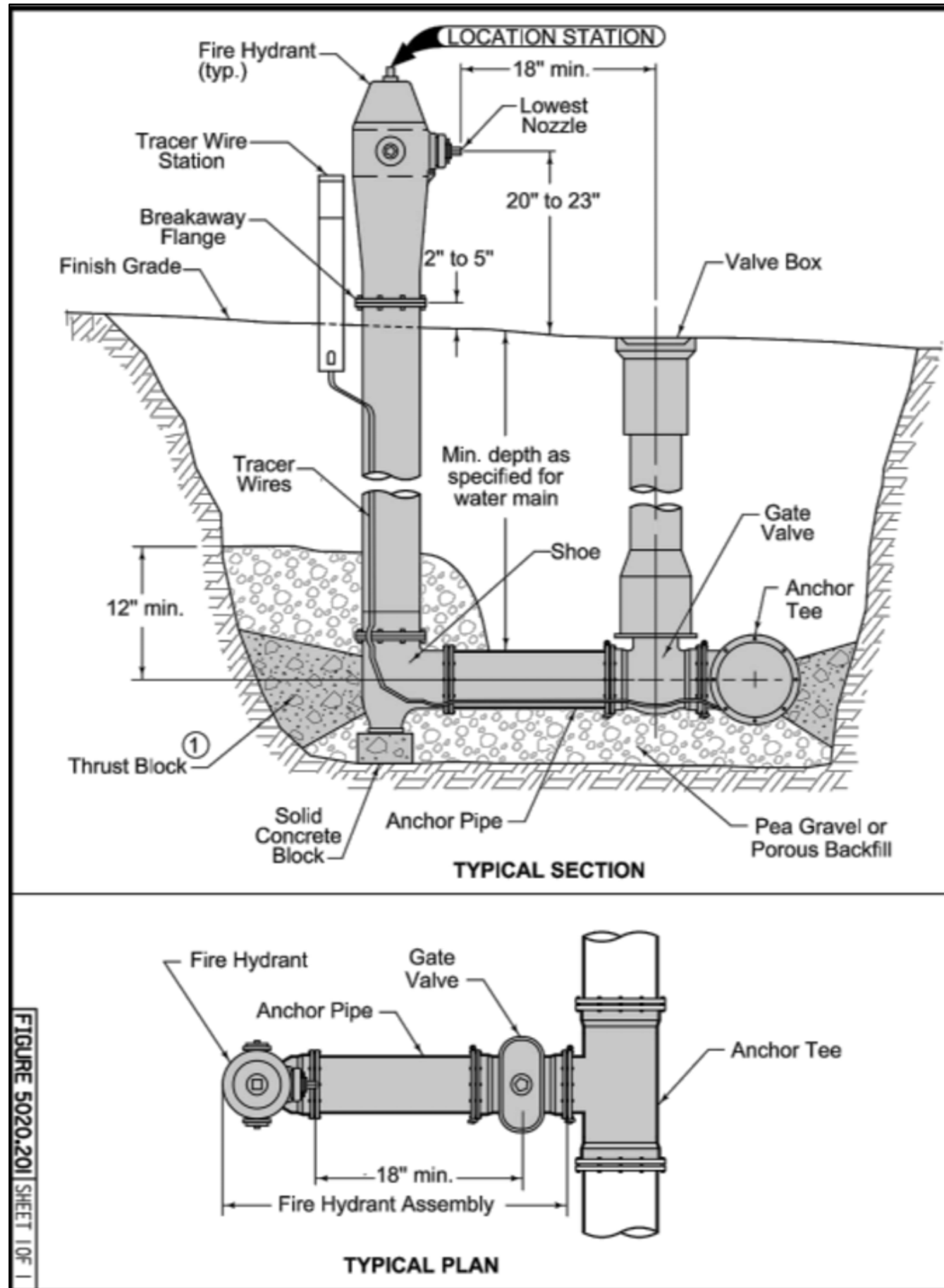
**HORIZONTAL ELLIPTICAL RCP**

Pipe Dia (ft)	Pipe Size (ft x ft)	Pipe Class				
		VE-III	VE-IV	VE-V	VE-VI	
23	14	18	15'	15'	22'	33'
30	19	24	15'	16'	34'	40'
34	22	27	11'	20'	40'	40'
38	24	30	12'	23'	40'	40'
42	27	33	15'	30'	40'	40'
45	29	36	15'	29'	40'	40'
49	32	39	15'	29'	40'	40'
54	34	42	15'	28'	40'	40'
60	38	48	15'	27'	40'	40'
66	43	54	15'	27'	40'	40'
76	48	60	15'	26'	40'	40'
83	53	66	15'	25'	40'	40'
91	58	72	15'	25'	40'	40'
98	63	78	15'	25'	40'	40'
106	68	84	15'	24'	40'	40'

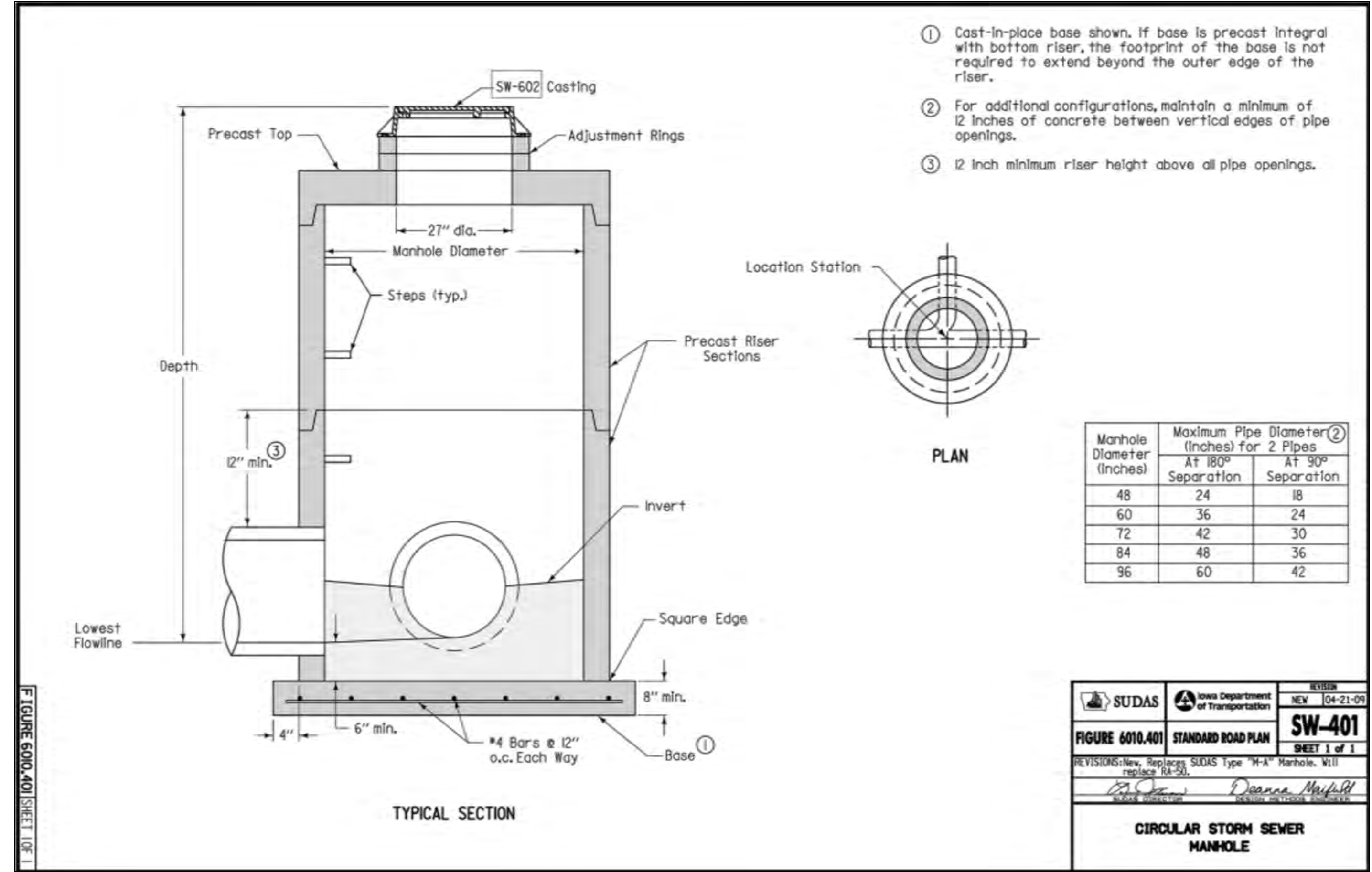
Based on Class R-5 bedding

**RIGID GRAVITY PIPE TRENCH BEDDING**

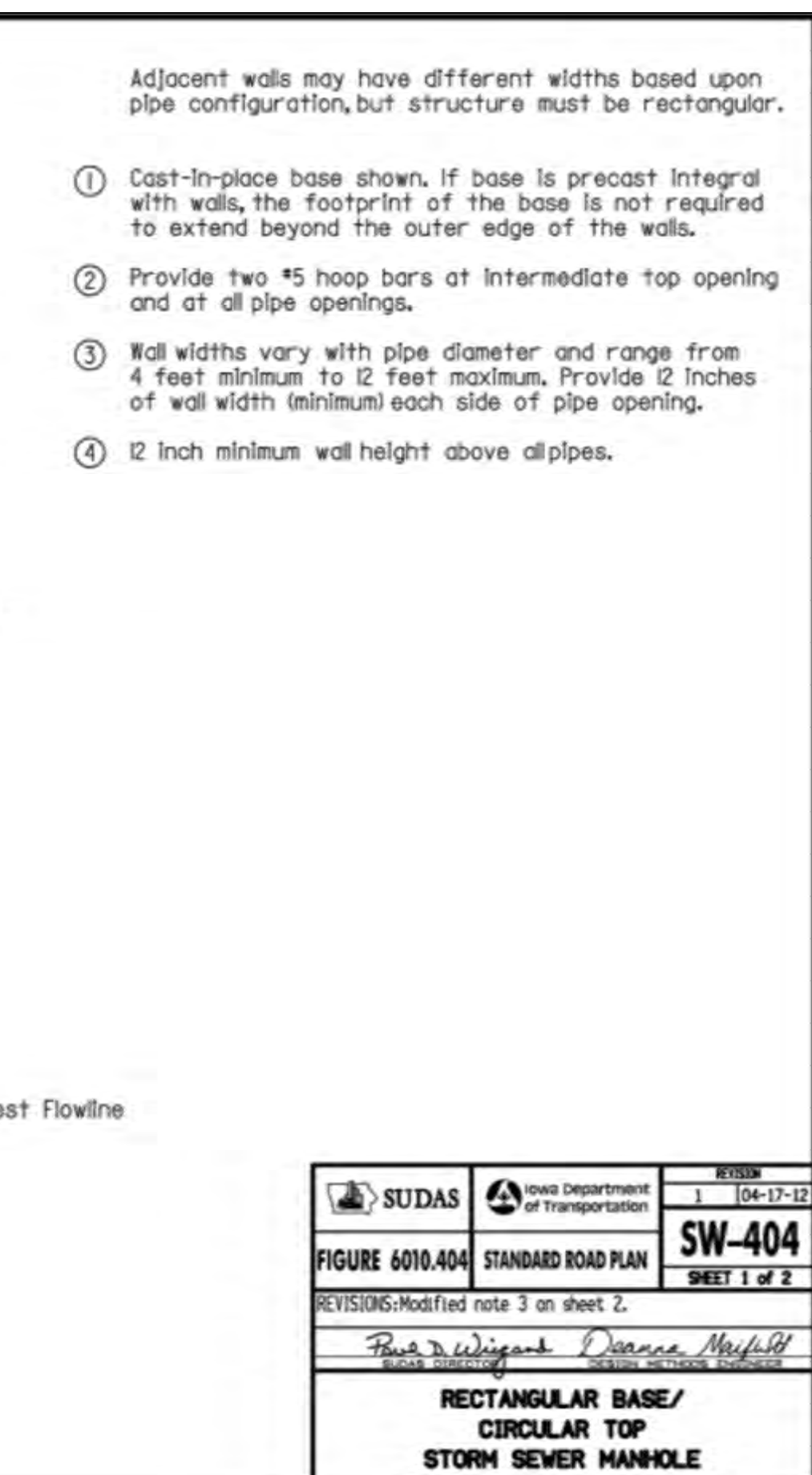
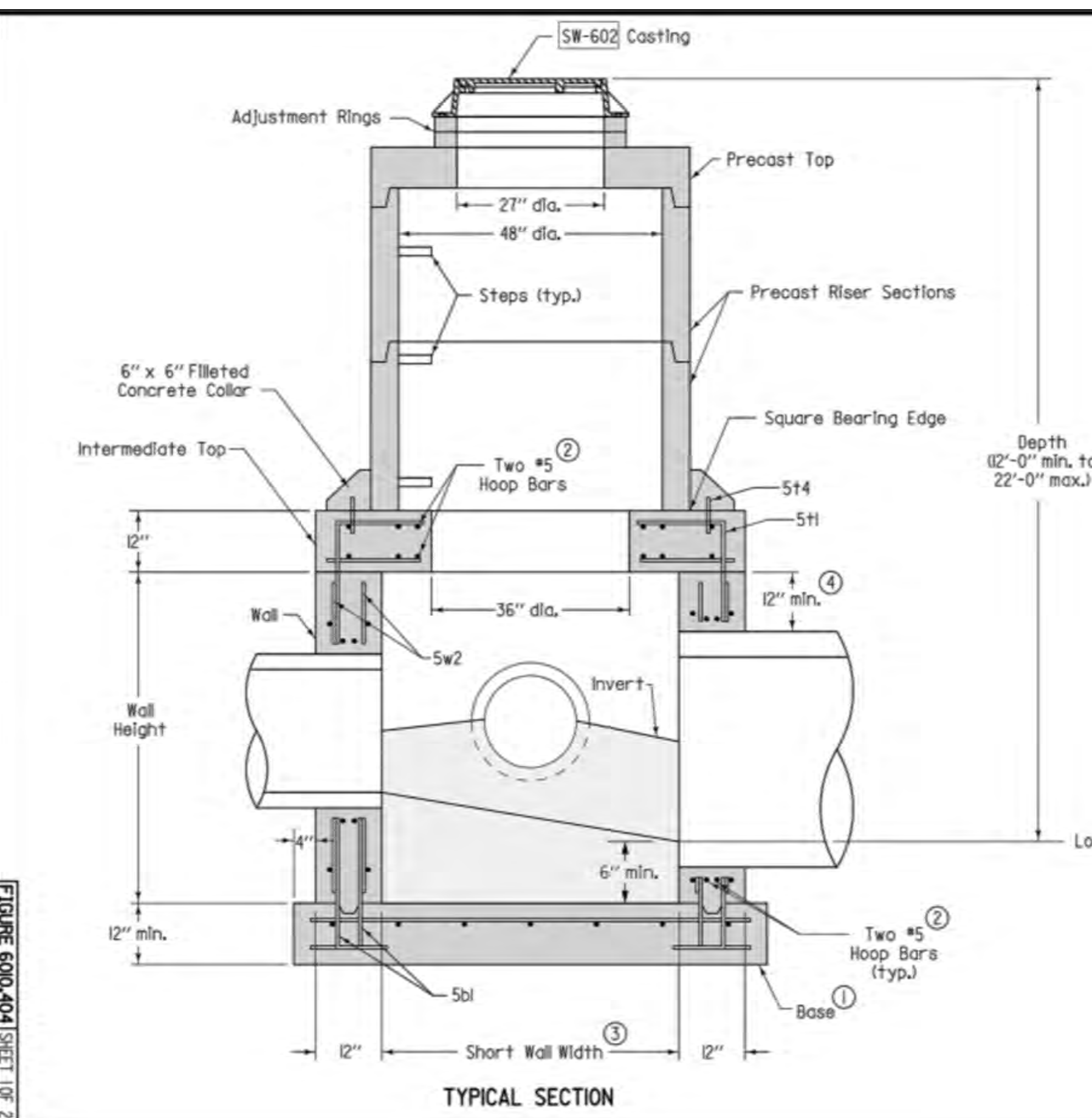
**FIGURE 3010.102 STANDARD ROAD PLAN SHEET 2 OF 2**



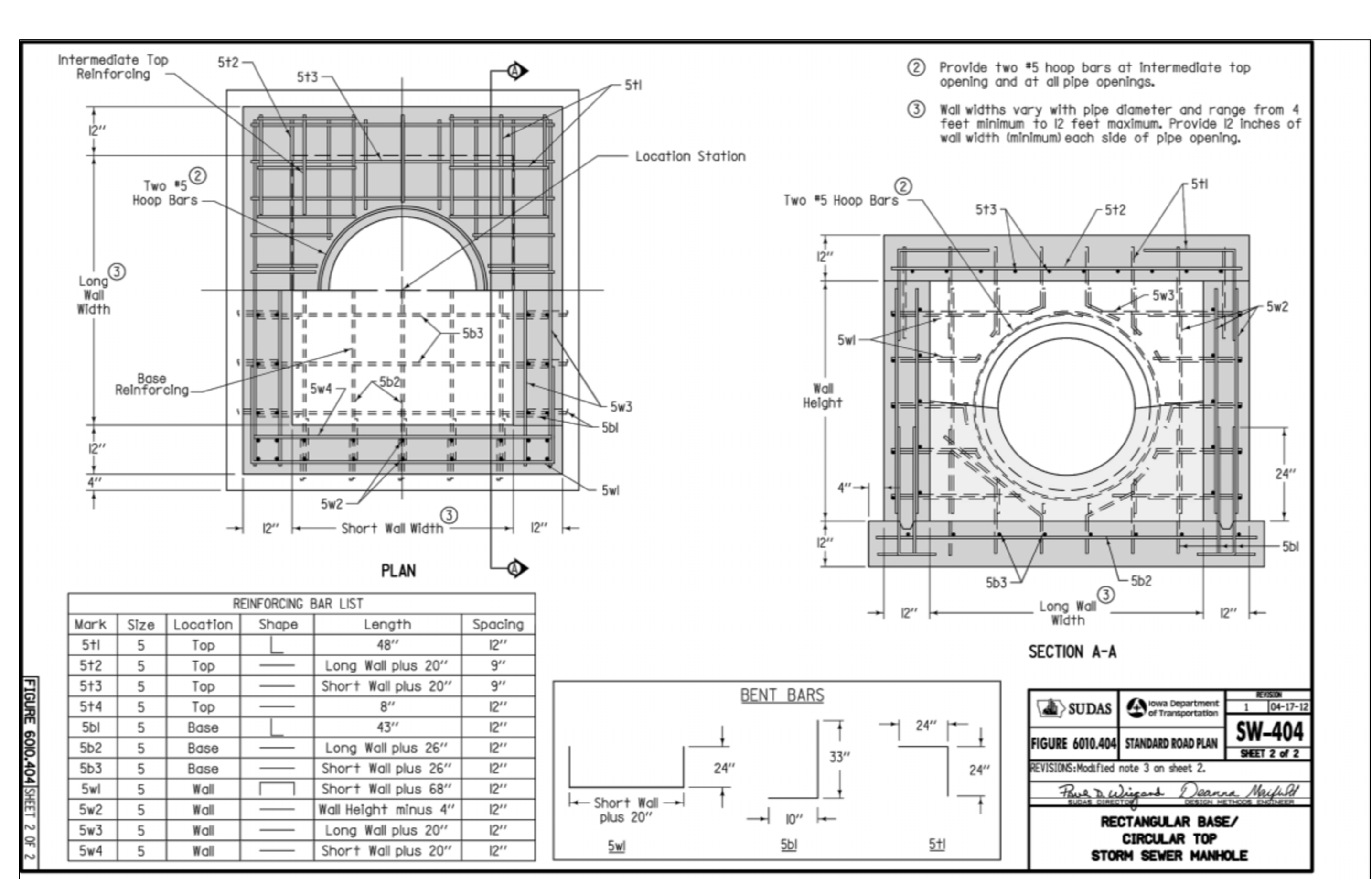
<b>SUDAS</b>	Iowa Department of Transportation	REVISION 1 [04-19-11]
<b>FIGURE 5020.201</b>	<b>STANDARD ROAD PLAN</b>	<b>WM-201</b>
REVISIONS: Deleted Note 1 and references, renumbered Note 2, and deleted 'typ' after 'Tracer Wire Station'		
<i>Paul D. Wigant</i> <i>Deanna McMillan</i> <small>SEAL</small> <small>SEAL</small> CIVIL ENGINEER    CIVIL ENGINEER		
<b>FIRE HYDRANT ASSEMBLY</b>		



<b>SUDAS</b>	Iowa Department of Transportation	REVISION NEW [04-21-09]
<b>FIGURE 6010.401</b>	<b>STANDARD ROAD PLAN</b>	<b>SW-401</b>
REVISIONS: New, Replaces SUDAS Type "M-A" Manhole. Will replace SW-30.		
<i>Paul D. Wigant</i> <i>Deanna McMillan</i> <small>SEAL</small> <small>SEAL</small> CIVIL ENGINEER    CIVIL ENGINEER		
<b>CIRCULAR STORM SEWER MANHOLE</b>		

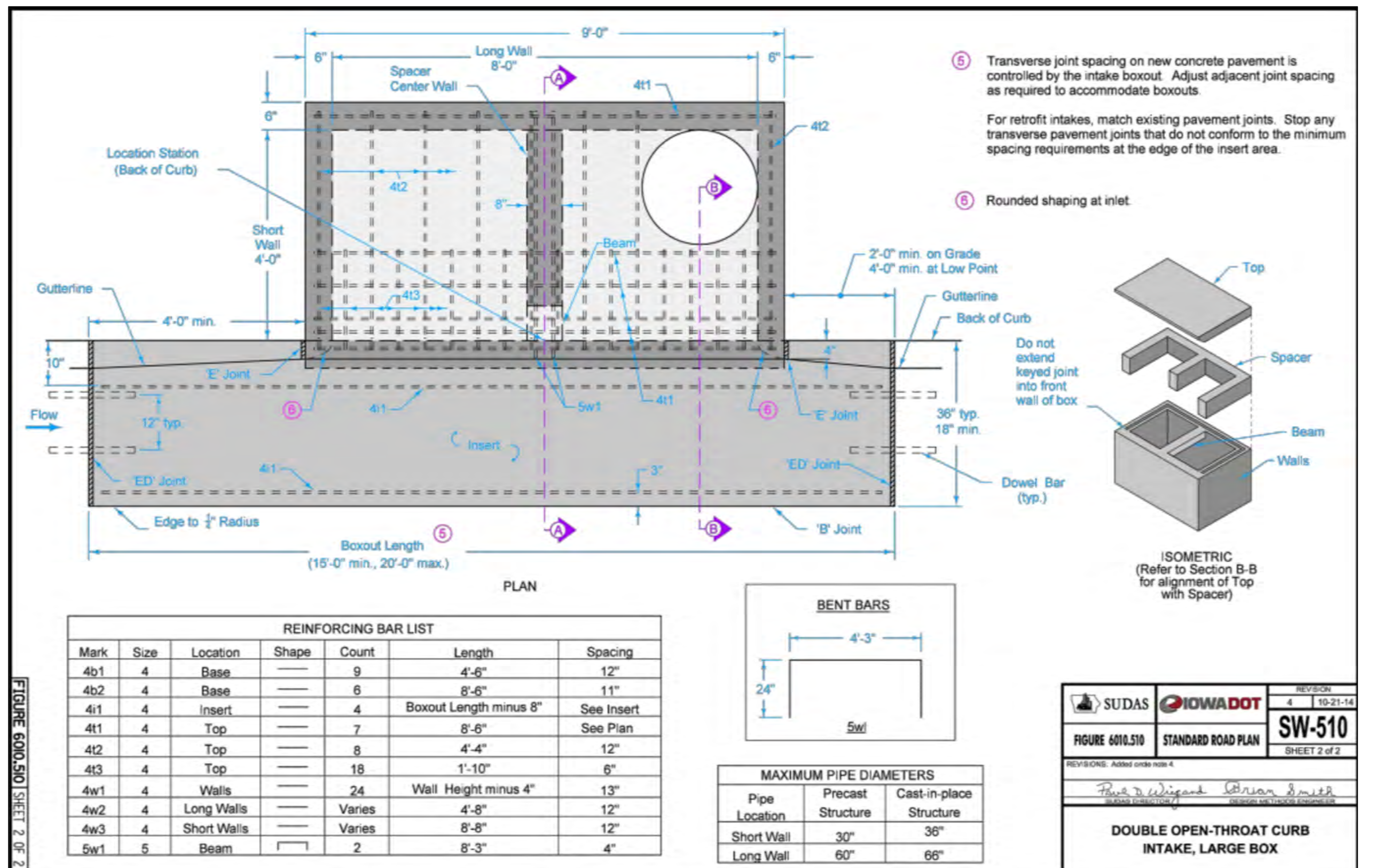
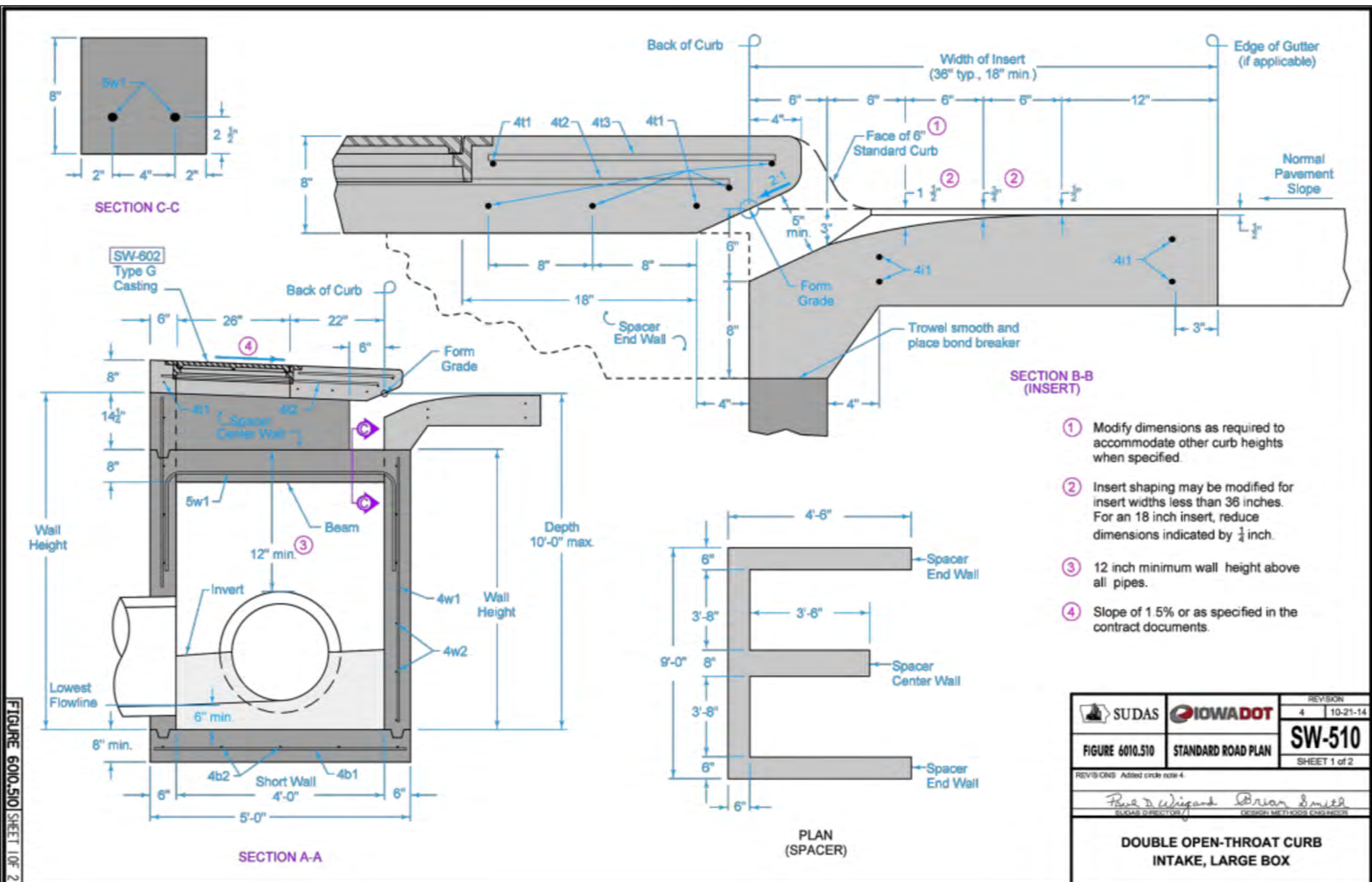
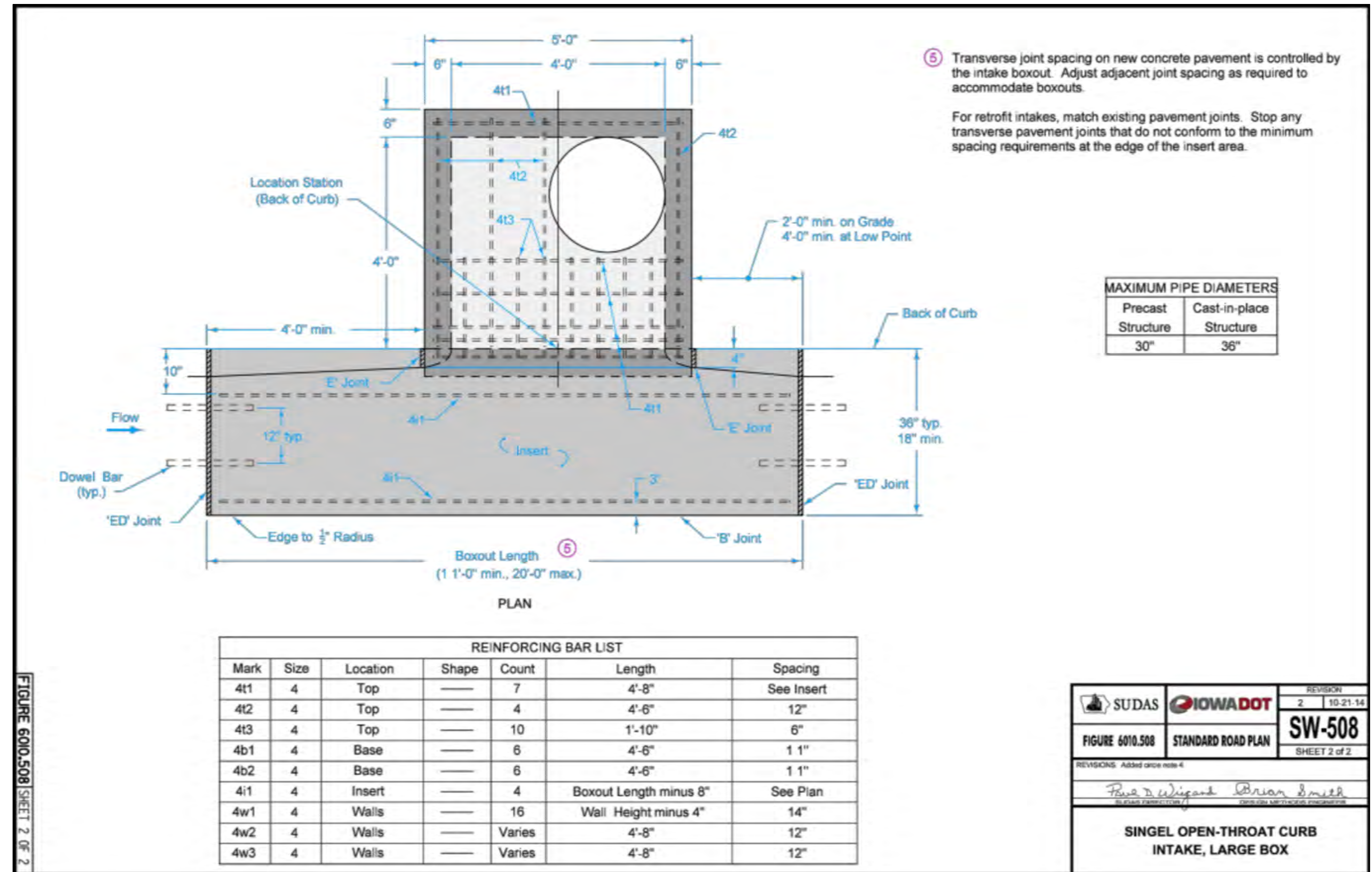
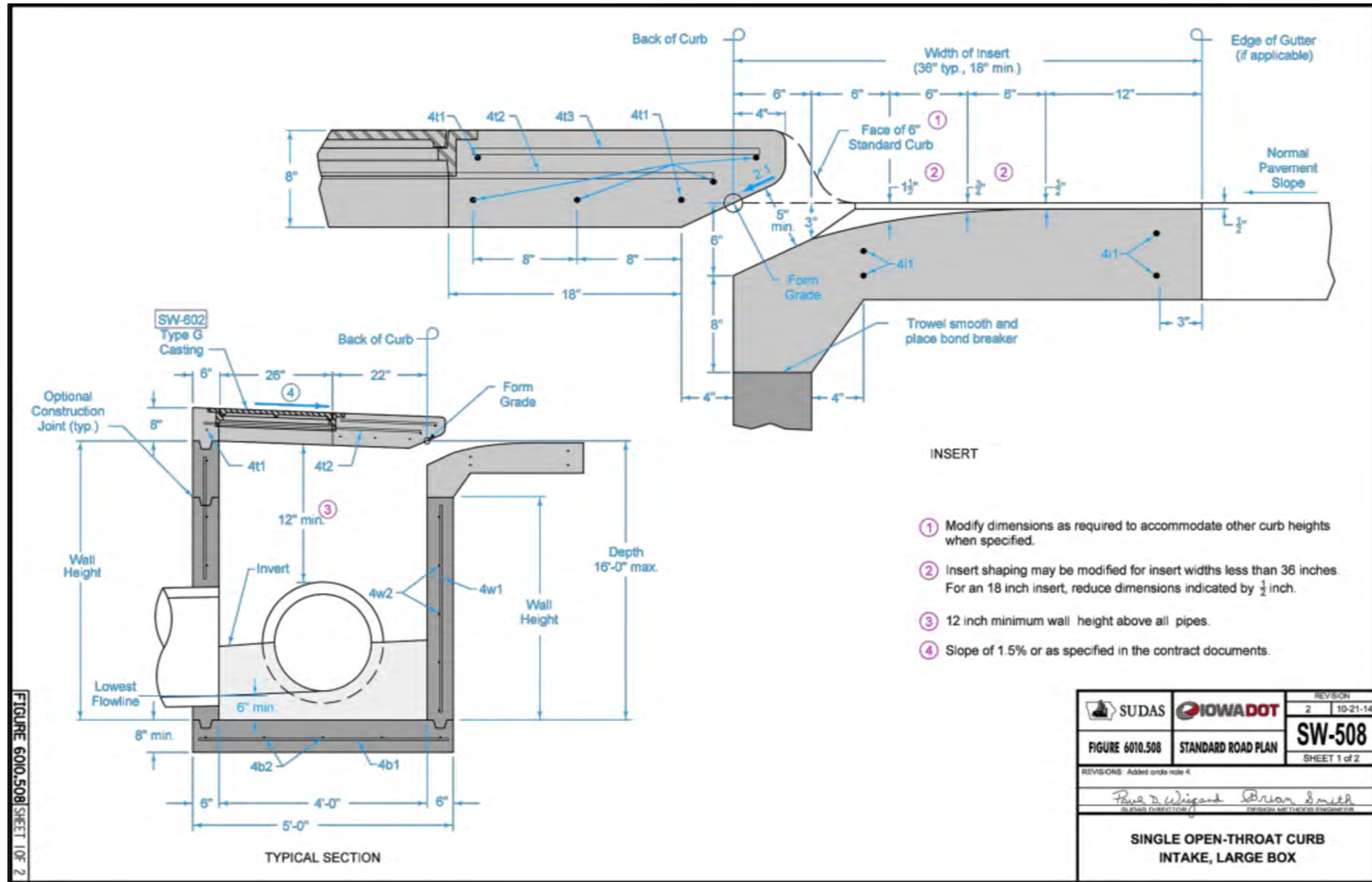


<b>SUDAS</b>	Iowa Department of Transportation	REVISION 1 [04-17-12]
<b>FIGURE 6010.404</b>	<b>STANDARD ROAD PLAN</b>	<b>SW-404</b>
REVISIONS: Modified note 3 on sheet 2.		
<i>Paul D. Wigant</i> <i>Deanna McMillan</i> <small>SEAL</small> <small>SEAL</small> CIVIL ENGINEER    CIVIL ENGINEER		
<b>RECTANGULAR BASE/ CIRCULAR TOP STORM SEWER MANHOLE</b>		



Mark	Size	Location	Shape	Length	Spacing
5t1	5	Top	—	48"	12"
5t2	5	Top	—	Long Wall plus 20"	9"
5t3	5	Top	—	Short Wall plus 20"	9"
5t4	5	Top	—	8"	12"
5b1	5	Base	—	43"	12"
5b2	5	Base	—	Long Wall plus 26"	12"
5b3	5	Base	—	Short Wall plus 26"	12"
5w1	5	Wall	—	Short Wall plus 68"	12"
5w2	5	Wall	—	Wall Height minus 4"	12"
5w3	5	Wall	—	Long Wall plus 20"	12"
5w4	5	Wall	—	Short Wall plus 20"	12"

<b>SUDAS</b>	Iowa Department of Transportation	REVISION 1 [04-17-12]
<b>FIGURE 6010.404</b>	<b>STANDARD ROAD PLAN</b>	<b>SW-404</b>
REVISIONS: Modified note 3 on sheet 2.		
<i>Paul D. Wigant</i> <i>Deanna McMillan</i> <small>SEAL</small> <small>SEAL</small> CIVIL ENGINEER    CIVIL ENGINEER		
<b>RECTANGULAR BASE/ CIRCULAR TOP STORM SEWER MANHOLE</b>		



PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: SUH  
 REVISION:  
 THE UNIVERSITY OF IOWA  
 CIVIL AND ENVIRONMENTAL ENGINEERING  
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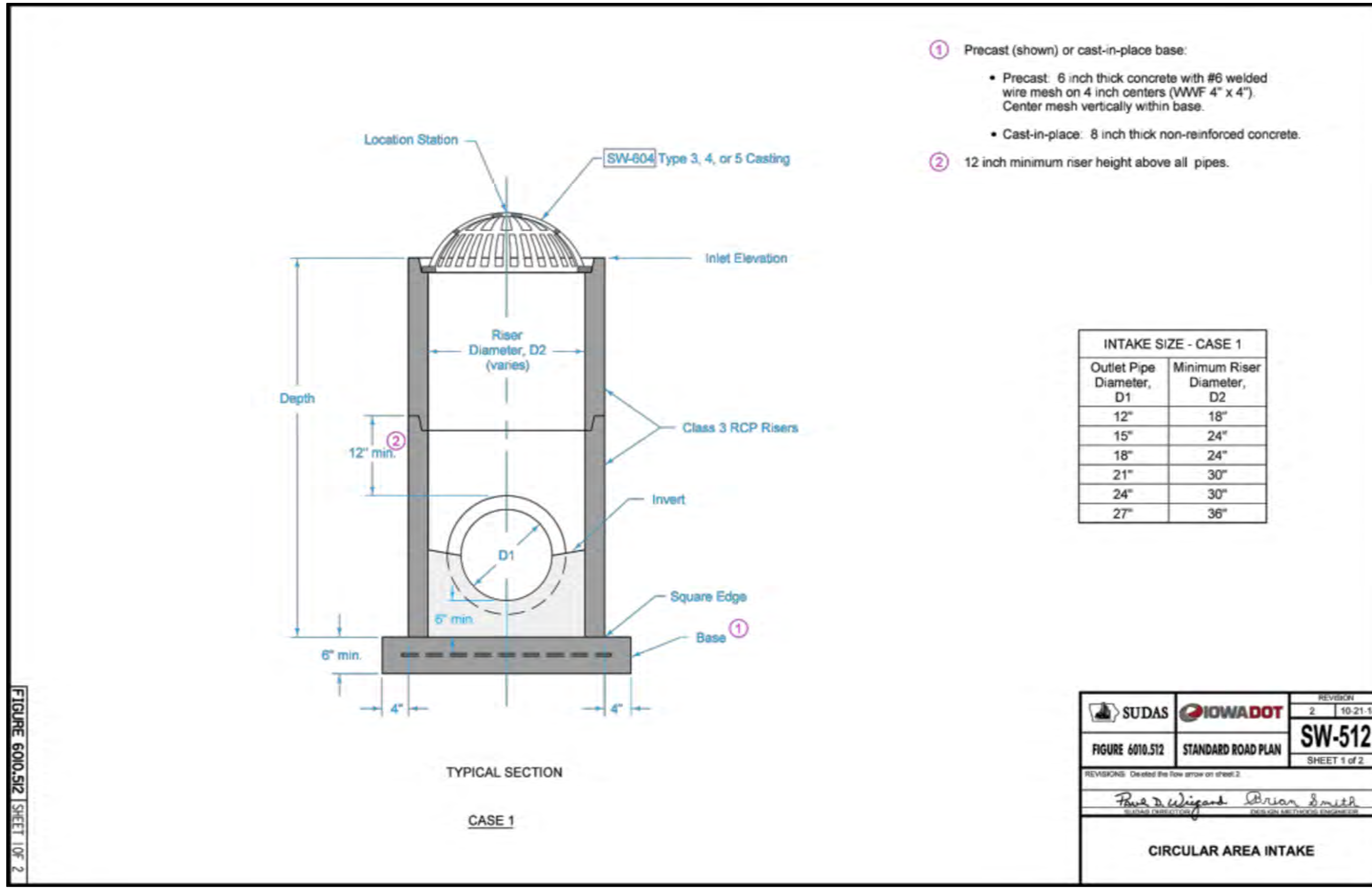
FIGURE 600.508 SHEET 1 OF 2  
 SUDAS IOWADOT  
 FIGURE 600.508 STANDARD ROAD PLAN SW-508  
 SHEET 1 OF 2  
 REVISIONS: Added circle note 4  
 Brad Wilgand Brian Smith  
 SINGLE OPEN-THROAT CURB INTAKE, LARGE BOX

FIGURE 600.508 SHEET 2 OF 2  
 SUDAS IOWADOT  
 FIGURE 600.508 STANDARD ROAD PLAN SW-508  
 SHEET 2 OF 2  
 REVISIONS: Added circle note 4  
 Brad Wilgand Brian Smith  
 SINGLE OPEN-THROAT CURB INTAKE, LARGE BOX

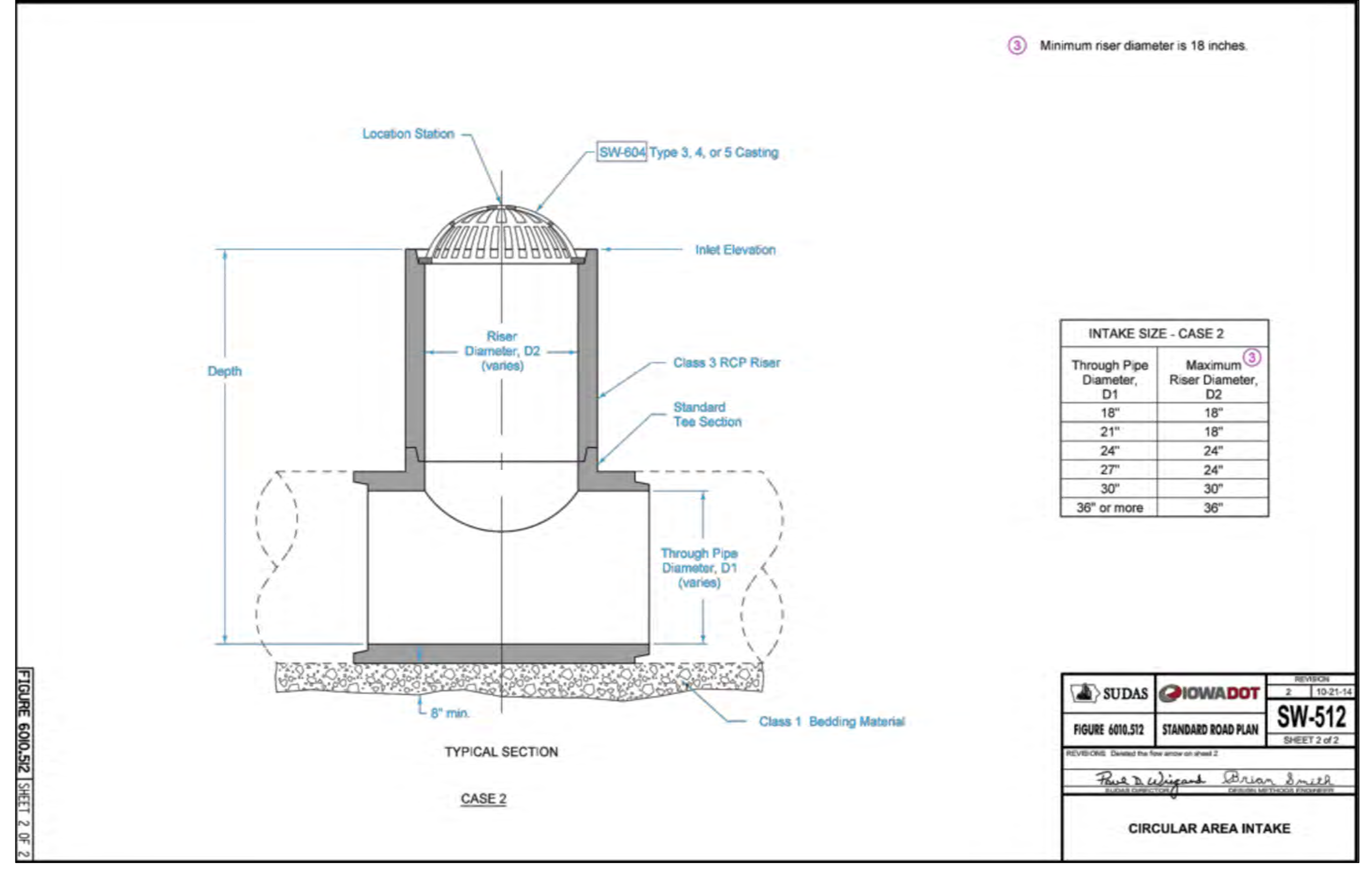
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TRUCK REROUTING AND PAVEMENT REPLACEMENT

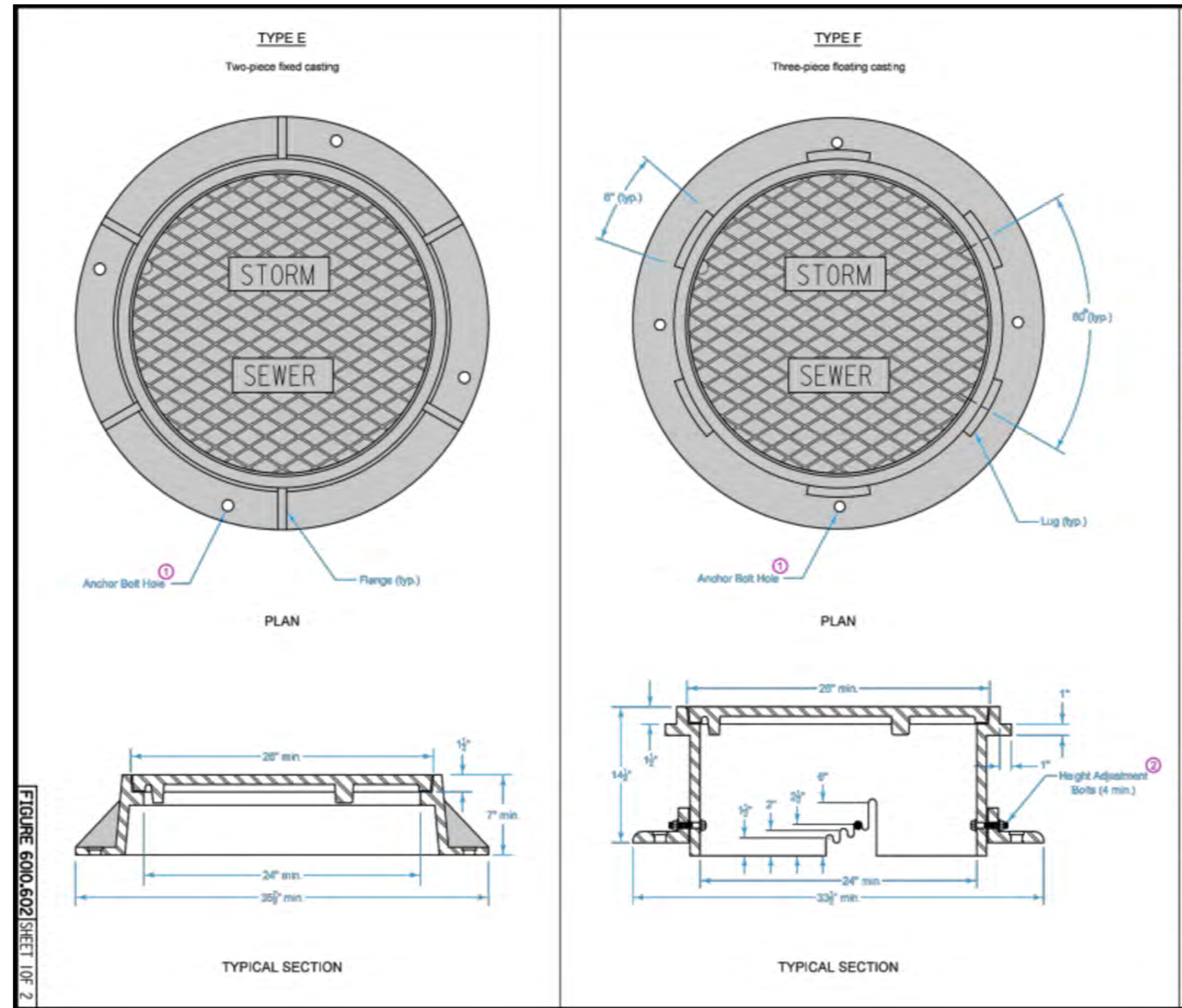
SHEET NAME: STORM SEWER DETAILS  
 SHEET NO.: B.10



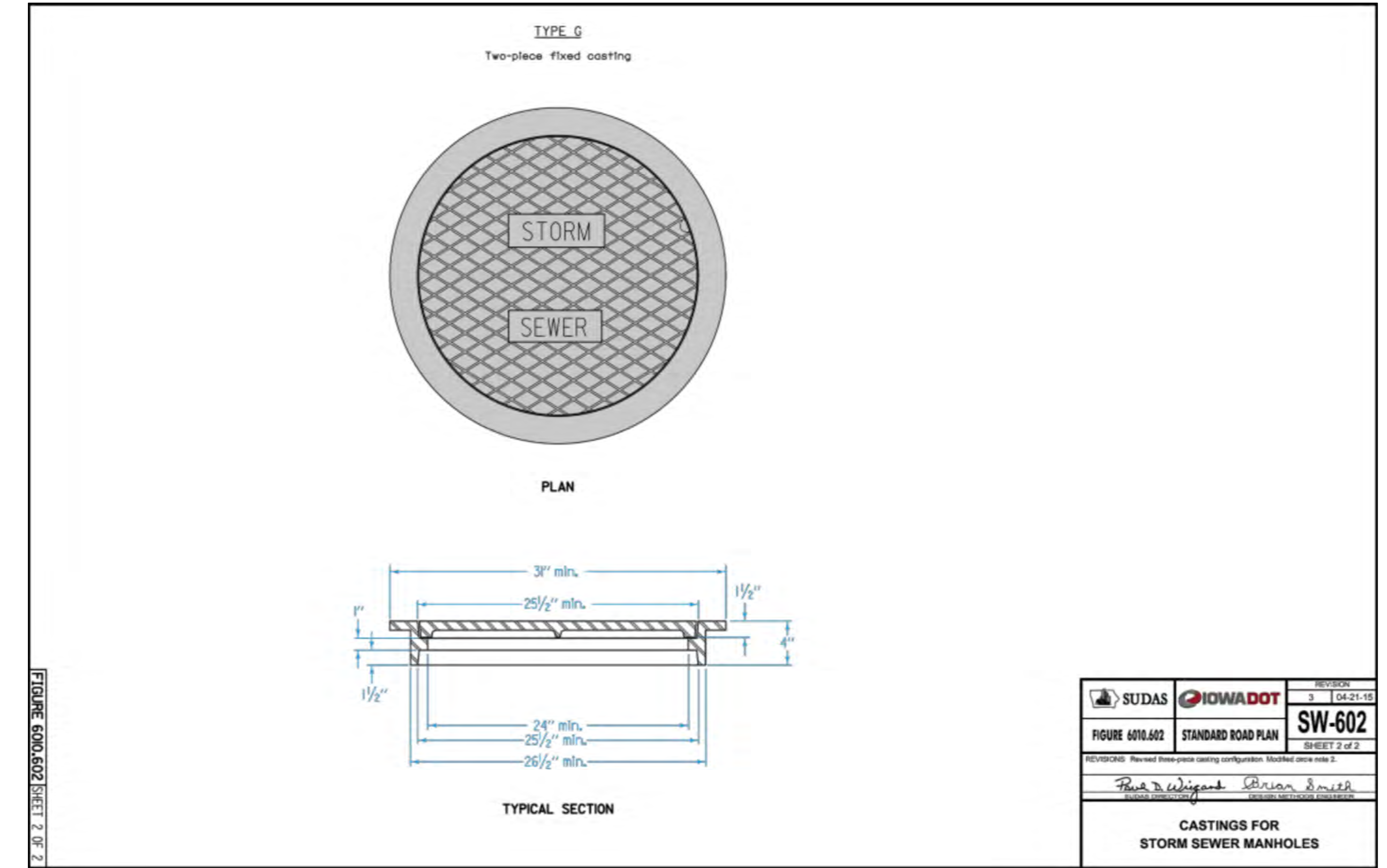
SUDAS	IOWADOT	REVISION 2 10-21-14
FIGURE 600.512	STANDARD ROAD PLAN	<b>SW-512</b>
REVISIONS: Deleted the flow arrow on sheet 2.		SHEET 1 of 2
<i>Paul D. Wiegand</i> <i>Brian Smith</i> <small>SENIOR PROJECT ENGINEER SENIOR PROJECT ENGINEER</small>		
<b>CIRCULAR AREA INTAKE</b>		



SUDAS	IOWADOT	REVISION 2 10-21-14
FIGURE 600.512	STANDARD ROAD PLAN	<b>SW-512</b>
REVISIONS: Deleted the flow arrow on sheet 2.		SHEET 2 of 2
<i>Paul D. Wiegand</i> <i>Brian Smith</i> <small>SENIOR PROJECT ENGINEER SENIOR PROJECT ENGINEER</small>		
<b>CIRCULAR AREA INTAKE</b>		



SUDAS	IOWADOT	REVISION 3 04-21-15
FIGURE 600.602	STANDARD ROAD PLAN	<b>SW-602</b>
REVISIONS: Revised three-piece casting configuration. Modified cover note 3.		SHEET 1 of 2
<i>Paul D. Wiegand</i> <i>Brian Smith</i> <small>SENIOR PROJECT ENGINEER SENIOR PROJECT ENGINEER</small>		
<b>CASTINGS FOR STORM SEWER MANHOLES</b>		



SUDAS	IOWADOT	REVISION 3 04-21-15
FIGURE 600.602	STANDARD ROAD PLAN	<b>SW-602</b>
REVISIONS: Revised three-piece casting configuration. Modified cover note 3.		SHEET 2 of 2
<i>Paul D. Wiegand</i> <i>Brian Smith</i> <small>SENIOR PROJECT ENGINEER SENIOR PROJECT ENGINEER</small>		
<b>CASTINGS FOR STORM SEWER MANHOLES</b>		

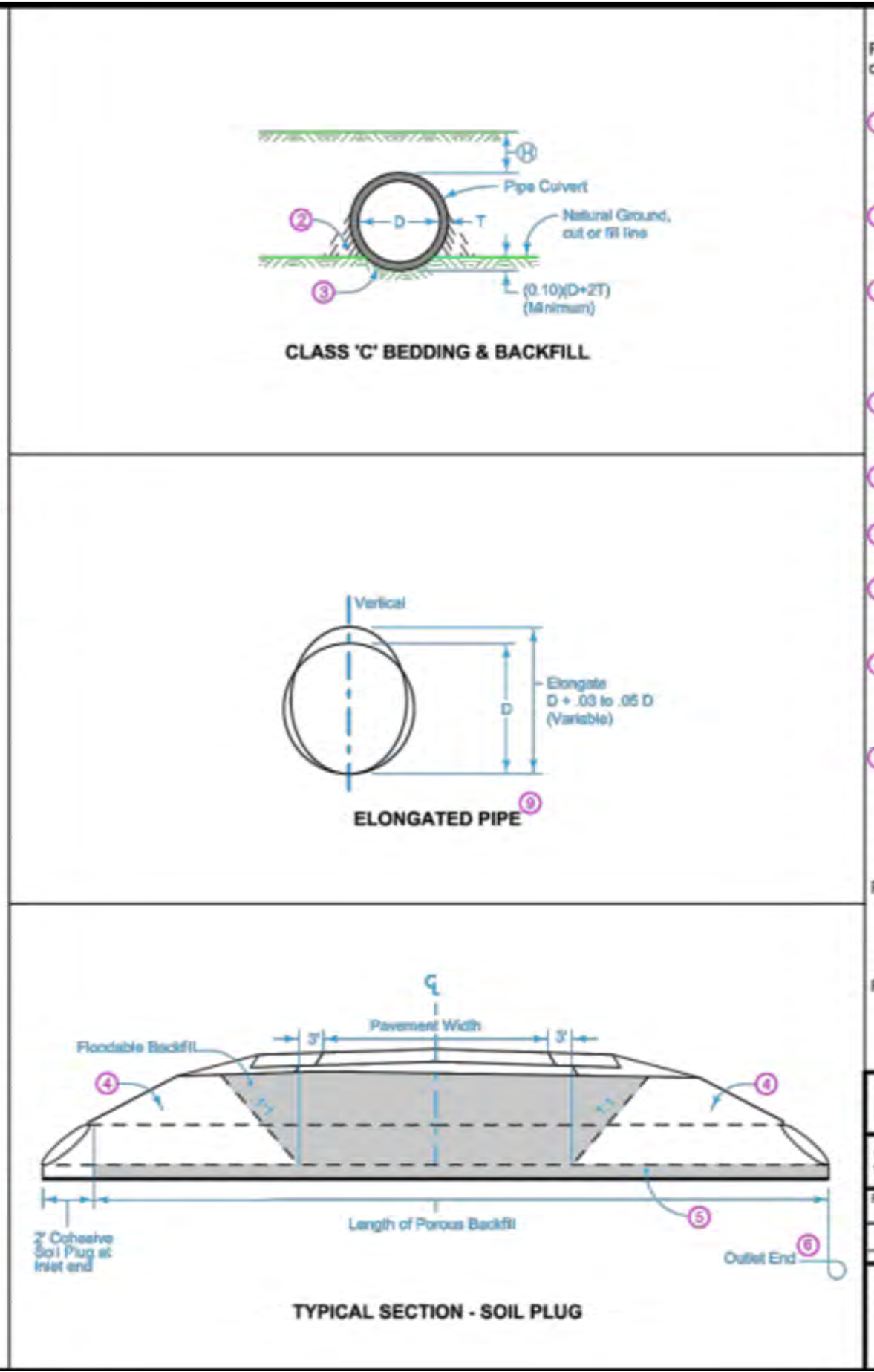
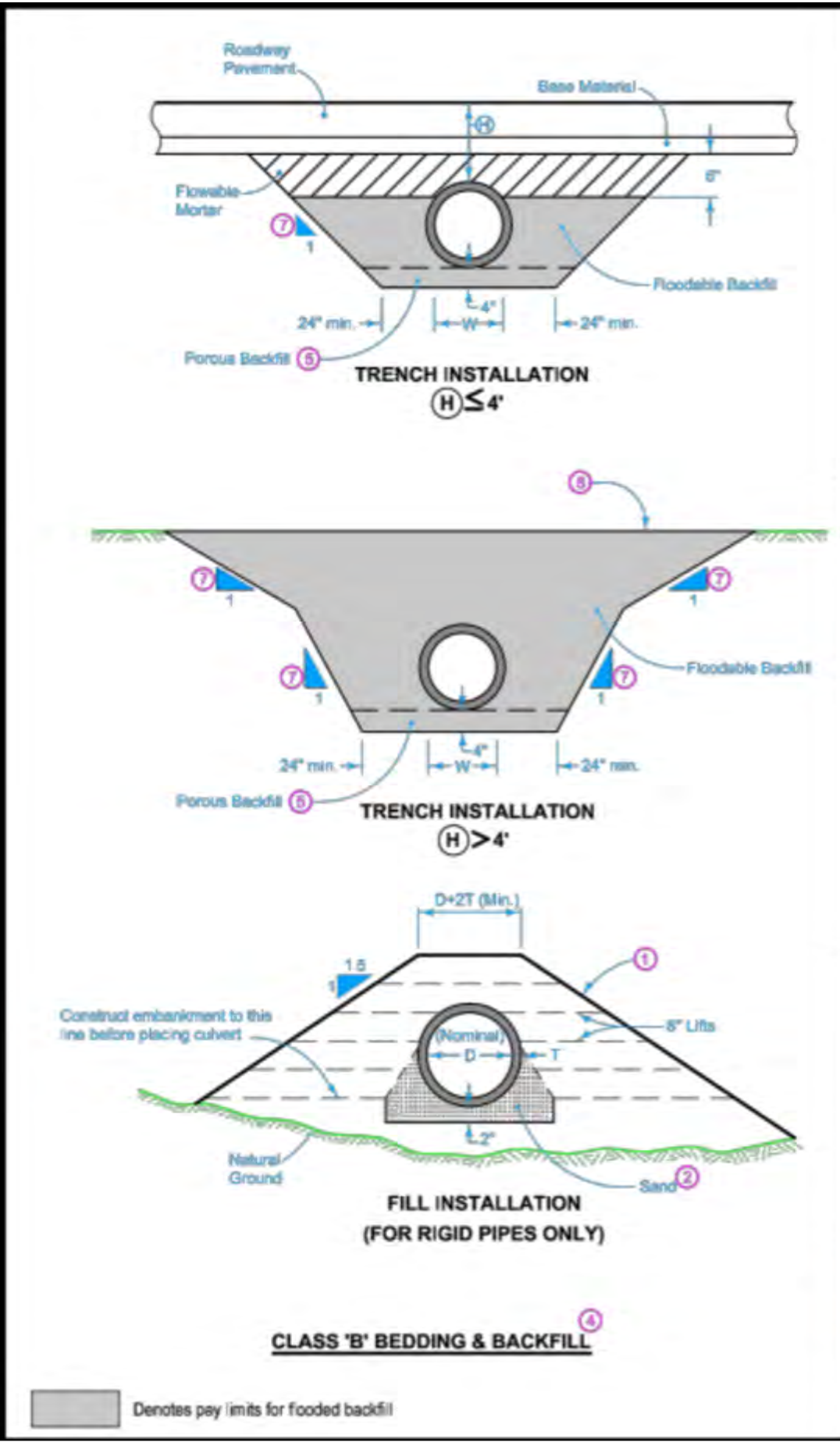
PROJECT: CEE: 4850  
DATE: 05/08/2026  
DRAWN BY: SUH  
REVISION:  
THE UNIVERSITY OF IOWA  
CIVIL AND ENVIRONMENTAL ENGINEERING  
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SHEET NAME  
STORM SEWER DETAILS

SHEET NO.  
**B.11**



Refer to DR-104 for minimum and maximum allowable cover (C) for the particular kind of pipe culvert.

- The backfill adjacent to and above the pipe culvert may be placed in conjunction with normal embankment construction. Thoroughly tamp the embankment within the limits shown.
- Take extra care to ensure complete and satisfactory tamping of backfill material in the area immediately adjacent to the lower portion of pipe.
- Carefully shape excavation below groundline either using a template conforming to actual dimension and shape of the pipe or using other means. If using other means, check with a template conforming to the actual dimension and shape of the pipe.
- For culverts backfilled by flooding, place a cohesive soil plug at the inlet, outlet, and, when necessary, sides, prior to flooding.
- 4-inch Porous Backfill bedding, 2-inch Floodable Backfill bedding may be used under unsealed rigid pipe.
- Extend Porous Backfill through the outlet end soil plug when used for bedding.
- Quantity calculations are based upon a 1:1 slope and minimum trench dimension. Actual slope of trench may vary based upon Contractor's operations.
- Ground Line at time of pipe installation. When existing ground exceeds 5 feet depth over pipe, backfill and compaction by flooding is not required more than 5 feet above the pipe.
- Where a corrugated metal pipe culvert requiring elongation is to be installed (to counteract deformation caused by backfill), complete elongation using a means approved by the Engineer. Elongation may be developed either as part of shop fabrication or field installation. Install with elongated axis vertical.

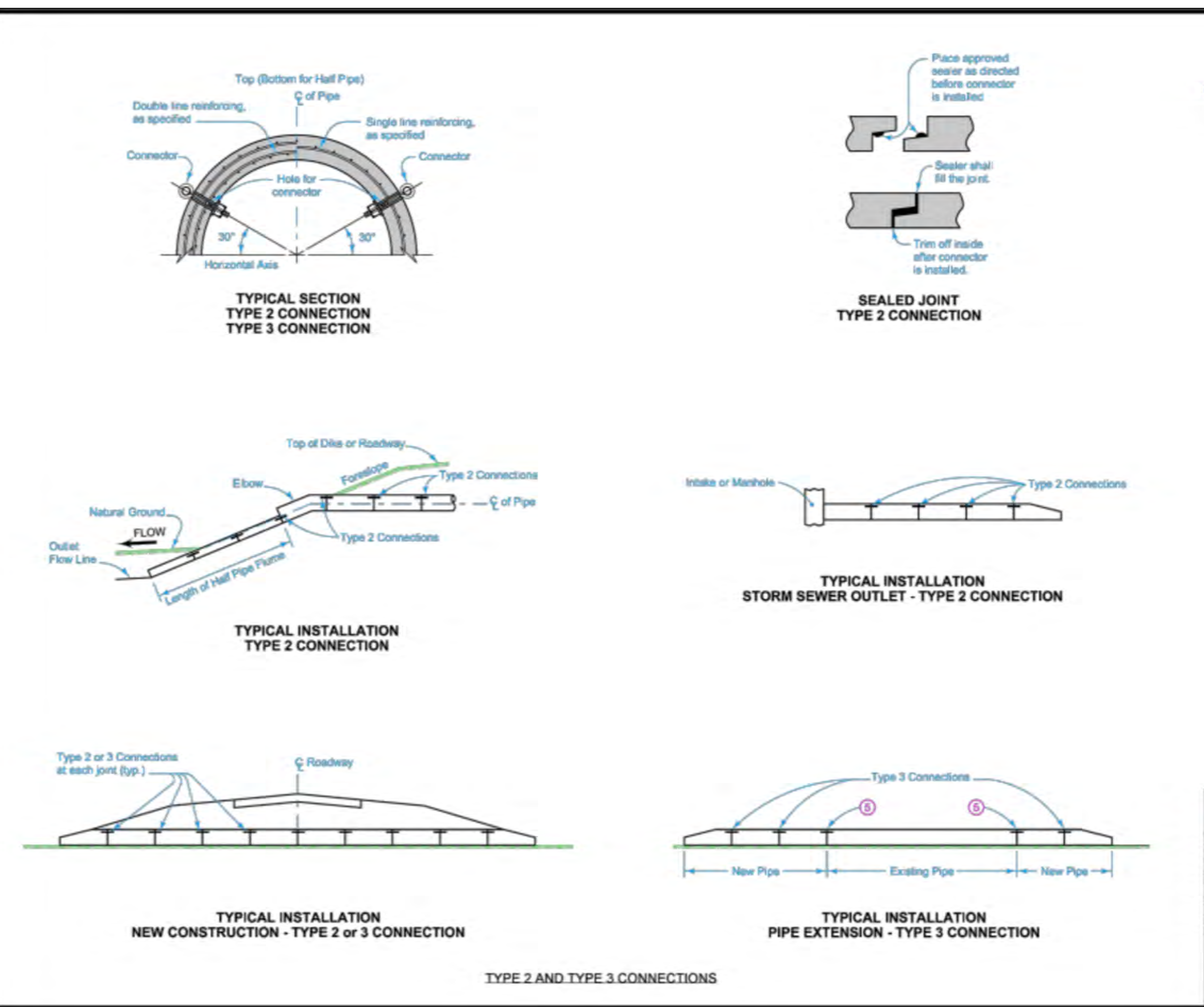
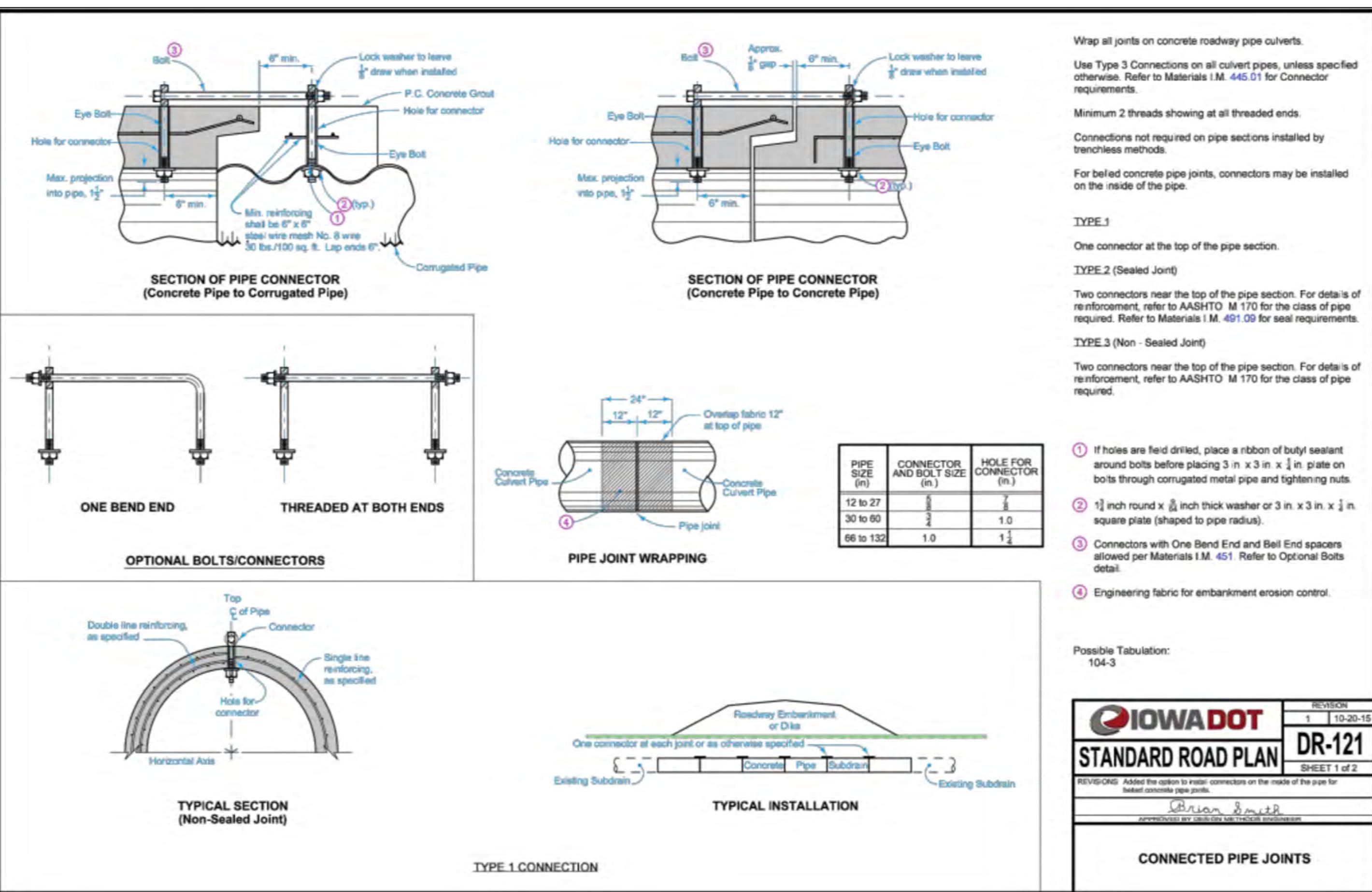
Possible Contract Items:  
Floodable Mortar  
Floodable Backfill  
Excavation, Class 20

Possible Tabulations:  
104-3  
104-4

**IOWA DOT STANDARD ROAD PLAN DR-101**

REVISIONS: New, 04-21-15  
SHEET 1 of 1

**PIPE CULVERT (BEDDING AND BACKFILL)**



- On culvert extensions, connect all new joints including the joint between the old and new culvert pipe. Holes may need to be drilled into existing pipes.

**IOWA DOT STANDARD ROAD PLAN DR-121**

REVISIONS: 1, 10-20-15  
SHEET 2 of 2

REVISIONS: Added the option to install connectors on the inside of the pipe for belted concrete pipe joints.

**CONNECTED PIPE JOINTS**

PROJECT: CEE: 4850  
DATE: 05/08/2026  
DRAWN BY: SUH  
REVISION:

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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME: DRAINAGE DETAILS  
SHEET NO.: B.12

Dimension 'E' shown is the minimum and is considered the design length. Adjust for any difference between the actual length of concrete apron installed and the length indicated hereon within the length of concrete culvert pipe furnished.

Install connected pipe joints as shown on DR-121.

When specified in the contract documents, install pipe apron guards as shown on DR-213. Pipe apron guards are incidental to "Concrete Aprons"

1 Tongue end used on inlet end section. Groove end used on outlet end section. Comply with AASHTO M 170 for tongue and groove dimensions.

TYPE 1 APRONS								
DIAM.	SLOPE	A	B	MINIMUM		F	G	T
				C	E			
12"	2.4:1	4"	2'-0"	4'-2"	6'-2"	2'-0"	2"	2"
15"	2.4:1	6"	2'-3"	3'-10"	6'-1"	2'-6"	2 1/2"	2 1/2"
18"	2.3:1	9"	2'-3"	3'-10"	6'-1"	3'-0"	2 1/2"	2 1/2"
21"	2.4:1	9"	3'-0"	3'-1 1/2"	6'-1 1/2"	3'-5"	3"	3"
24"	2.5:1	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	3"	3"
27"	2.5:1	10 1/2"	4'-1"	2'-0"	6'-1 1/2"	4'-4"	3 1/2"	3 1/2"
30"	2.5:1	12"	4'-6"	1'-7 1/2"	6'-1 1/2"	5'-0"	3 1/2"	3 1/2"
36"	2.5:1	15"	5'-3"	2'-9"	6'-0"	6'-0"	4"	4"
42"	2.5:1	21"	5'-3"	2'-9"	6'-0"	6'-6"	4 1/2"	4 1/2"
48"	2.5:1	24"	6'-0"	2'-0"	6'-0"	7'-0"	5"	5"
54"	1.8:1	27"	5'-0"	3'-0"	6'-0"	7'-6"	5 1/2"	5 1/2"
60"	1.6:1	29 1/2"	5'-0"	3'-0"	6'-0"	8'-0"	5 1/2"	6"
66"	1.7:1	30"	6'-0"	2'-3"	6'-3"	8'-0"	5 1/2"	6"
72"	1.6:1	30"	6'-6"	1'-9"	6'-3"	9'-0"	6"	7"
78"	1.8:1	36"	7'-6"	1'-9"	6'-3"	9'-6"	6 1/2"	7 1/2"
84"	1.3:1	29 1/2"	8'-6"	2'-6"	6'-3"	10'-0"	6 1/2"	8"

TYPE 2 APRONS								
DIAM.	SLOPE	A	B	MINIMUM		F	G	T
				C	E			
12"	2.4:1	4"	2'-0"	4'-2"	6'-2"	2'-0"	2"	2"
15"	2.4:1	6"	2'-3"	3'-10"	6'-1"	2'-6"	2 1/2"	2 1/2"
18"	2.3:1	9"	2'-3"	3'-10"	6'-1"	3'-0"	2 1/2"	2 1/2"
21"	2.4:1	9"	3'-0"	3'-1 1/2"	6'-1 1/2"	3'-5"	3"	3"
24"	2.5:1	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	3"	3"
27"	2.5:1	10 1/2"	4'-1"	2'-0"	6'-1 1/2"	4'-4"	3 1/2"	3 1/2"
30"	2.5:1	12"	4'-6"	1'-7 1/2"	6'-1 1/2"	5'-0"	3 1/2"	3 1/2"
36"	2.5:1	15"	5'-3"	2'-9"	6'-0"	6'-0"	4"	4"
42"	2.5:1	21"	5'-3"	2'-9"	6'-0"	6'-6"	4 1/2"	4 1/2"
48"	2.5:1	24"	6'-0"	2'-0"	6'-0"	7'-0"	5"	5"
54"	1.9:1	24 1/2"	5'-5"	2'-7"	6'-0"	7'-6"	5 1/2"	5 1/2"
60"	1.4:1	24 1/2"	5'-0"	3'-0"	6'-0"	8'-0"	5 1/2"	6"
66"	1.7:1	30"	6'-0"	2'-3"	6'-3"	8'-0"	5 1/2"	6"
72"	1.4:1	24"	6'-6"	1'-9"	6'-3"	9'-0"	6"	7"
78"	1.8:1	36"	7'-6"	1'-9"	6'-3"	9'-6"	6 1/2"	7 1/2"
84"	1.5:1	23 1/2"	7'-6"	1'-9"	6'-3"	10'-0"	6 1/2"	8"

Contract Item:  
Apron, Concrete

Tabulations:  
104-3  
104-5C

REVISION	DATE
New	04-21-15

**IOWA DOT**  
**STANDARD ROAD PLAN**  
DR-201  
SHEET 1 of 1

CONCRETE APRONS

When culverts which are less than 1 foot below the trench bottom are encountered within a tabulated subdrain, stop the trench 3 feet from the culvert and resume 3 feet beyond the culvert.

On new construction projects, place the subdrain after the special backfill, if required, and prior to granular or paved shoulder material.

Except for backslope installations, if the Contractor's operations result in a trench, place and compact granular shoulder material in the trench to be level with the adjacent surface prior to opening lanes to traffic.

- Perforated Subdrain (Corrugated Polyethylene Tubing)
- Porous Backfill for Subdrain (compacted).
- Subdrain outlets. See DR-304.
- 2 foot section of corrugated metal pipe of diameter 2" larger than subdrain or 2 foot section of double-walled PE or PVC pipe of the same diameter as subdrain. Pipe will be paid for as "Subdrain Outlet (DR-303)".
- Connect PE or PVC outlet with an appropriate coupler. Connect CMP outlet one of two ways: (1) Inside-fit reducer coupler (1 foot minimum fit inside CMP); or (2) Insert 1 foot of the 4 inch subdrain into 6 inch CMP and fully seat entire opening with grout.
- Place porous backfill in direct contact with a minimum of 2 inches of pavement and continuous to shoulder material as per note 10 or 11.
- If the trench is inadvertently carried over the culvert, repair the trench as detailed on this sheet. If obstruction is 1 foot or more below trench bottom, carry subdrain line over in continuous alignment. No payment will be made for trench repair.
- 10 inches for 4 inch subdrain. 12 inches for 6 inch subdrain.

Possible Contract Items:  
Subdrain, Longitudinal, (Backslope)  
Subdrain, Longitudinal, (Shoulder)  
Subdrain Outlet (DR-303)  
Subdrain Outlet (DR-304)

Possible Tabulation:  
104-9

REVISION	DATE
1	10-20-15

**IOWA DOT**  
**STANDARD ROAD PLAN**  
DR-303  
SHEET 1 of 2

REVISIONS: Changed text from full to fully in note 5.

**SUBDRAINS**  
(LONGITUDINAL)

- Perforated Subdrain (Corrugated Polyethylene Tubing).
- Porous Backfill for Subdrain (compacted).
- Place porous backfill in direct contact with a minimum of 2 inches of pavement and continuous to shoulder material as per note 11 or 12.
- Install subdrain as cut proceeds.
- On existing Granular or Earth Shoulders, replace with 4 inch minimum depth granular shoulder material.
- On Paved Shoulders, refer to Section 2502 of the Standard Specifications for finishing shoulder.
- Cut "V" notch just prior to subbase (if proposed) or pavement placement to assure uncontaminated contact.
- Place top of subdrain trench at the bottom of pavement. Backfill trench so that a wedge of porous backfill has a minimum vertical contact of 2 inches with the pavement.

REVISION	DATE
1	10-20-15

**IOWA DOT**  
**STANDARD ROAD PLAN**  
DR-303  
SHEET 2 of 2

REVISIONS: Changed text from full to fully in note 5.

**SUBDRAINS**  
(LONGITUDINAL)

PROJECT: CEE: 4850  
DATE: 05/08/2026  
DRAWN BY: SJH  
REVISION:  
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ENGINEERING ARTS AND SCIENCES  
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FAX: 319.335.5660  
EMAIL: civil-hawks@iowa.edu

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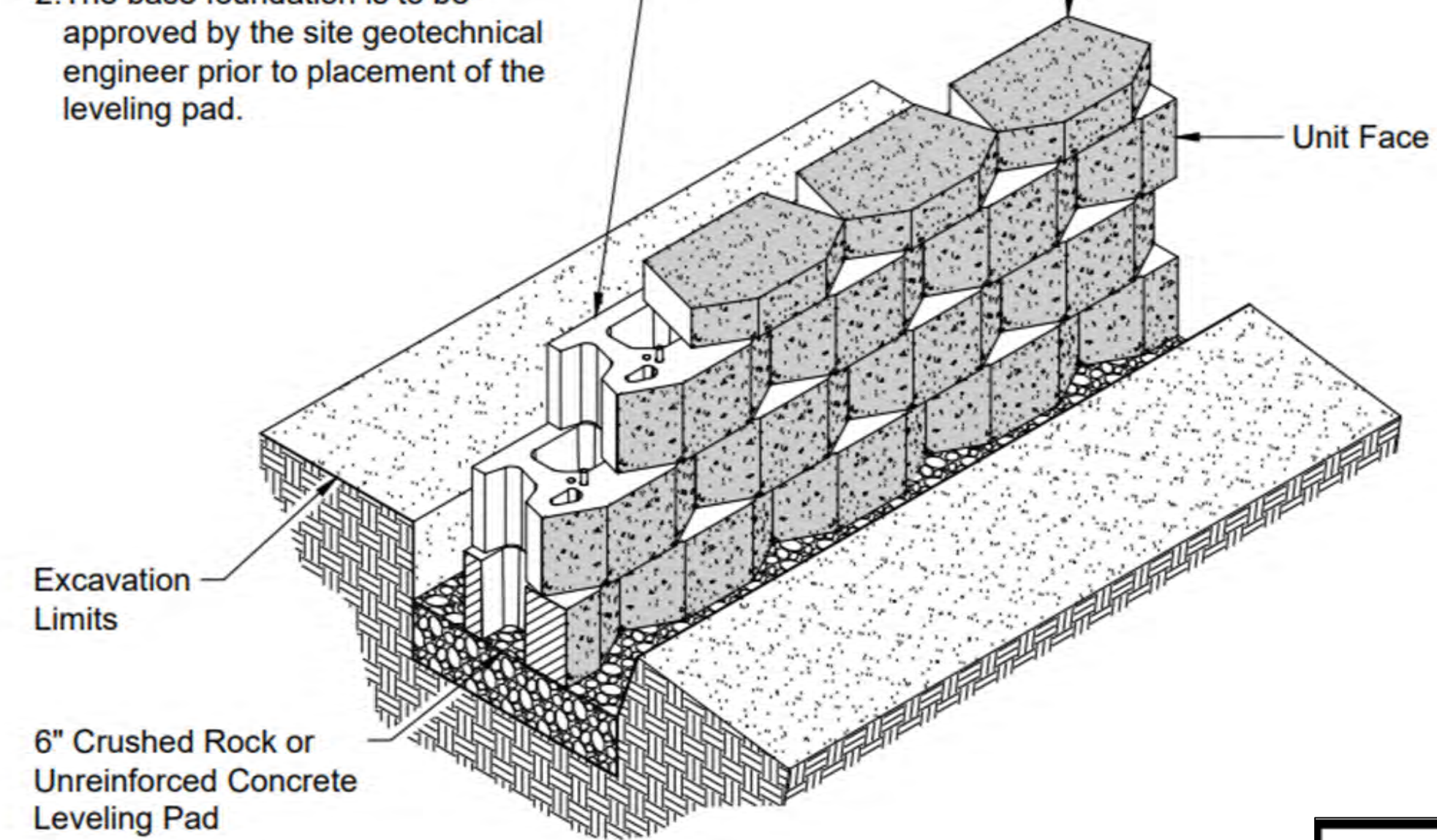
TRUCK REROUTING AND PAVEMENT REPLACEMENT

SHEET NAME  
DRAINAGE DETAILS  
SHEET NO.  
**B.13**

**Base Leveling Pad Notes:**

1. The leveling pad is to be constructed of crushed stone or 2,000 psi± unreinforced concrete
2. The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad.

Compac II Unit		Cap Unit	
Width:	18"	Width:	18"
*Depth:	12"	*Depth:	10 1/2"
Height:	8"	Height:	4"
*Weight:	82 lbs	*Weight:	45 lbs



**Compac II Unit/Base Pad Isometric Section View**

\* Dimensions & Weight May Vary by Region



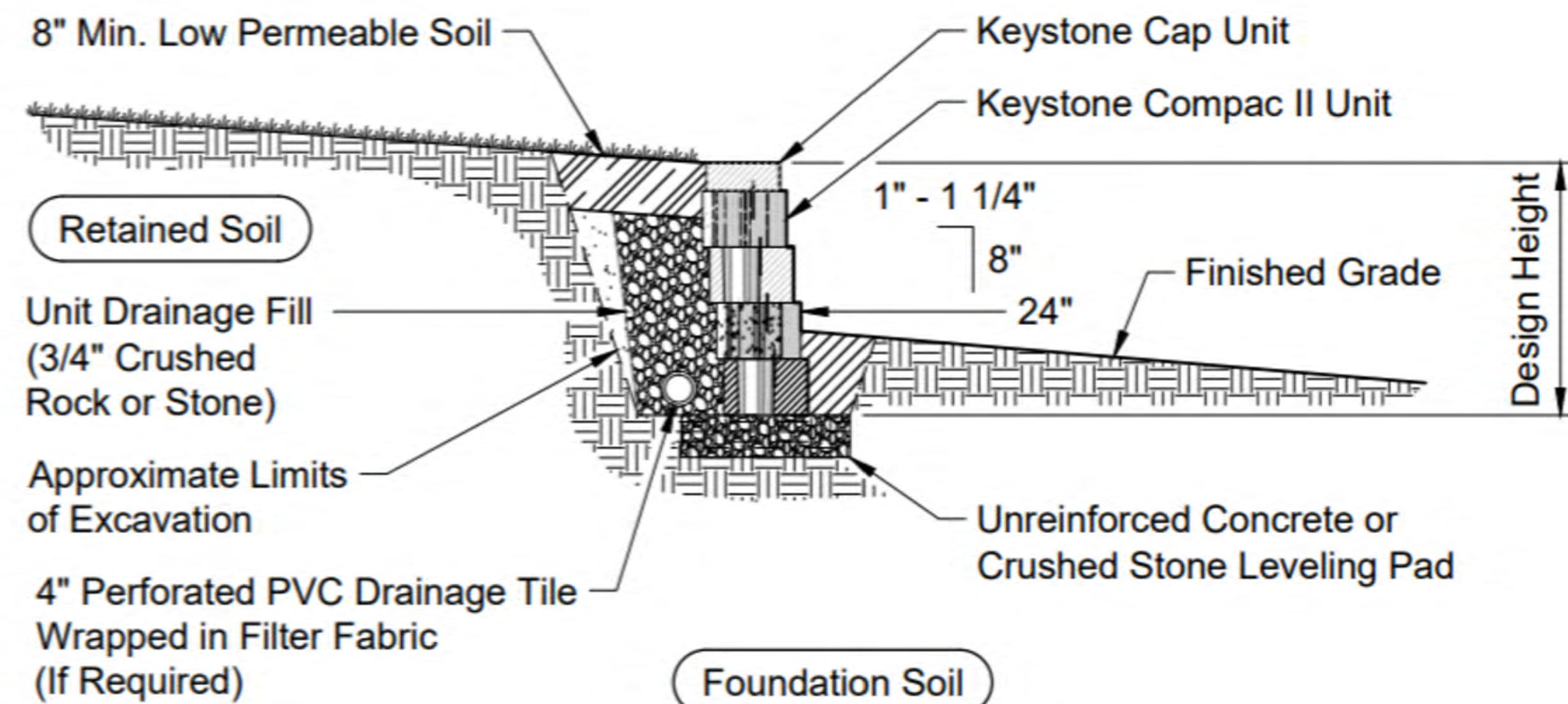
PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	SJH
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**TRUCK REROUTING AND**

**PAVEMENT REPLACEMENT**



**Typical Gravity Wall Section**

Compac II Unit - 1" Setback



SHEET NAME  
 RETAINING WALL  
 DETAILS

SHEET NO.  
**B.14**

QUANTITIES – GREEN		
ITEM	QUANTITY	UNIT
CLEARING AND GRUBBING	392	SF
REMOVAL OF SEAL COAT	1442	SY
REMOVAL OF HMA PAVEMENT	445	SY
REMOVAL OF PCC PAVEMENT	230	SY
REMOVAL OF CURB AND GUTTER	148	LF
REMOVAL OF SIDEWALK	373	SY
REMOVAL OF RETAINING WALL	123	SF
REMOVAL OF FIRE HYDRANTS	2	EA
REMOVAL OF TRAFFIC SIGNS	4	EA
REMOVAL OF TREES	2	EA
REMOVAL OF LIGHT POLES	1	EA
REMOVAL OF STORM INLETS	1	EA
CUT	92	CY
FILL	339	CY
6" GRANULAR SUBBASE	260	CY
7" PCC PAVEMENT	303	CY
4" PCC SIDEWALK	375	SY
ADA SIDEWALK RAMP	5	EA
CURB AND GUTTER	797	LF
SEEDING RESTORATION	5586	SF
TRAFFIC SIGNS	4	EA
PAVEMENT MARKINGS	1	LS
LIGHT POLE INSTALLATION	1	EA
FIRE HYDRANT INSTALLATION	2	EA
RETAINING WALL	123	SF
STORM INLETS	5	EA
18" STORM PIPE	504	LF
CONSTRUCTION ADMINISTRATION	1	LS
MOBILIZATION	1	LS
TRAFFIC CONTROL	1	LS

QUANTITIES – 4TH STREET		
ITEM	QUANTITY	UNIT
CLEARING AND GRUBBING	37756	SF
REMOVAL OF SEAL COAT	10282	SY
REMOVAL OF HMA PAVEMENT	1876	SY
REMOVAL OF PCC PAVEMENT	360	SY
REMOVAL OF GRAVEL DRIVEWAY	161	SY
REMOVAL OF TRAFFIC SIGNS	8	EA
REMOVAL OF TREES	65	EA
REMOVAL OF MAILBOX	1	EA
REMOVAL OF CULVERT	112	LF
REMOVAL OF PIPE	185	LF
REMOVAL OF FLARED END SECTION	1	EA
REMOVAL OF STORM INLETS	4	EA
CUT	4607	CY
FILL	7505	CY
6" GRANULAR SUBBASE	2345	CY
7" PCC PAVEMENT	2748	CY
18" IMPORTED FILL	7034	CY
6" GRAVEL DRIVEWAY	39	CY
CURB AND GUTTER	7583	LF
MILLED RUMBLE STRIP	268	LF
SEEDING RESTORATION	220190	SF
TREE REPLACEMENT	52	EA
TRAFFIC SIGNS	10	EA
PAVEMENT MARKINGS	1	LS
MAILBOX RELOCATION	1	EA
BOX CULVERT	112	LF
RETAINING WALL	293	SF
STORM INLETS	42	EA
18" STORM PIPE	6406	LF
CONSTRUCTION ADMINISTRATION	1	LS
MOBILIZATION	1	LS
TRAFFIC CONTROL	1	LS

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**TRUCK REROUTING AND  
PAVEMENT REPLACEMENT**

SHEET NAME  
QUANTITIES

SHEET NO.  
**C.01**

GENERAL NOTES

- \*The Contractor will confine all work to the right-of-way or the design construction easements
- \*The Contractor shall be responsible for any damage outside of the construction limits or easements resulting from his/her negligence.
- \*Caution will be taken when working over and around all tile lines. Breaks in the tile lines due to the contractor's carelessness are to be replaced at the contractor's expense. Any tile lines broken or disturbed by plan cuts will be replaced as directed by the Engineer.

ACCESS

- \*It shall be the Contractor's responsibility to provide and maintain access to individual properties during construction.
- \*Relocating accesses shall be completed to individual properties to removal of existing access.
- \*If the permanent access cannot be completed prior to removal of existing access, the contractor shall provide and maintain an alternate access. Temporary access drives shall have a minimum 4" crushed rock surface. Rock surface quantities shall be included in Surfacing, Driveway, Class A Crushed Stone.

MAILBOXES

\*Removal and relocation of mailboxes is a bid item. It shall be the contractor's responsibility to coordinate with the local postmaster and with the residents on establishing a procedure for either mail delivery or pick-up. Mailboxes will be temporarily constructed on the side of the road during construction phasing. Mailboxes shall be placed to specifications of the postal service with regard to the location and height before final acceptance of work.

SURFACE RESTORATION

- A. Parkings, lawns, and street rights-of-way: replace 6" of topsoil removed during excavation.
- B. Replace damaged flowers, shrubbery and trees with new plantings of equal type and quality at no cost to Owner; trees removed because of conflict with alignment of pipes shall not be replaced, except where shown on plans.
- C. Grade to smooth, uniform lines without large lumps, clods, or debris.
- D. Dispose of all brush and rubbish as directed by Engineer.
- E. Sod all areas disturbed by construction unless otherwise shown on plans directed by Engineer.
- F. Prepare site for sodding by discing, harrowing and hand raking or other means following site grading; work soil to depth of 3".
- G. Precede sodding with uniform application of commercial grade fertilizer at rate per acre of 10lbs. of nitrogen, 40lbs. of phosphorous and 20 lbs. of potassium (400 lbs. of fertilizer grade 5-10-5 per acre, or approved equal); cultivate area 3" deep and work with harrow within 24 hours before seeding; smooth surface to eliminate clods and lumps before seeding.
- H. Sod: Minimum 18 months old, nursery grown bluegrass; free of objectionable grasses and weeds and insects; mowed at height of 2" prior to cutting; source subject of approval of Owner based on visual observation of condition.
  - 1. Sod shall be harvested, delivered and placed within a time period of 24 hours.
  - 2. Sod showing signs of heating and dehydration will be rejected.
- I. Seeding in street parkings, lawns, and developed areas, (Type 1):
  - 1. Seed at rate of 4lbs. per 1000 SF with following mixture proportioned by weight:
 

<u>Seed</u>	<u>Percent</u>
Kentucky Bluegrass	35
Annual Rye	25
Perennial Rye	20
Creeping Red Fescue	10
Chewing Fescue	10
- J. Cover seed by rolling with cultipacker, or by dragging or hand raking.
- K. Mulch all seeded areas; mulch: dry oat straw at rate of 4,000 lbs. per acre; stabilize mulch with tiller designed to anchor to soil.
- L. water seeded area sufficiently to saturate seed bed; continue watering all areas until growth is established; City will furnish water at no cost to Contractor.
- M. Contractor responsible for turning over to Owner full stand grass; replant or redevelop bare spots or areas not attaining full stand of grass during first growing season.
- N. Provide topsoil backfill behind curbs unless specified otherwise. Water sodded area sufficiently to saturate sod bed; continue watering all areas until growth is established; City will furnish water at no cost to contractor.

TABULATION OF UTILITIES	
CITY OF WEST BRANCH PUBLIC WORKS MATT GOODALE, DIRECTOR ADAM KOFOED, CITY ADMINISTRATOR 110 NORTH POPLAR STREET	319-325-8213 319-643-5888
CEDAR COUNTY SHERIFF EMERGENCY WEST BRANCH FIRE DEPARTMENT EMERGENCY	563-866-2121 911 319-643-2110 911

GRADING

- \*Typical Cross-Sections shall be used for reference purposes only.
- \*It will be the contractor's responsibility to provide waste areas or disposal sites for material(s) which do not impact wetlands or "Waters of the U.S."
- \*Construct Natural Subgrade in center of roadbed in accordance with the 2109 of the Standard Specifications. The top 12" shall be compacted to at least 98% of the Optimum Density as determined by D-698 (Standard Proctor Density) and within -2% to +3% of the Optimum Moisture range. All full material shall be placed in lifts not exceeding 8" in loose thickness. Cost shall be incidental to Class 10, Roadway and Borrow. All fill material under roadbed, below 12" of special compacted, shall be compacted to 95% of the optimum density per 2109 of the Standard Specifications (incidental).
- \*In cut areas the Subgrade shall be compacted as per Article 2109.5 of the Standard Specifications, Cost shall be indicated to Class 10 Roadway and Borrow.
- \*The Contractor shall apply necessary moisture to the constructed area to prevent the spread of dust. Refer to Article 1107.7 of the Standard Specifications for additional details.

MATERIAL TESTING REQUIREMENT

- \*Contractor shall provide Quality Control testing for materials conforming to the Iowa DOT IM-204. The City will perform the verification testing. All material testing costs shall be incidental to the application bid item.
- \*Contractor shall use maturity testing for PCC paving.
- \*Pavement cores shall be in accordance with the Iowa DOT IM-346. 4 samples are required.
- \*Contractor shall submit a design mix for approval prior to construction.

Testing frequency shall be:

Gradation tests	1/1500CY
Gradation Moisture	1/1500CY
Plastic Air Content	1/350CY
Vibrator Frequency	2/Day
Beams	2 initial to confirm maturity curve then Maturity testing

FIRE HYDRANT

- A. Hydrant shall be type that is instructed by Engineer.
- B. Furnish and install hydrant using anchoring tee, standard tee and anchoring couplings with anchoring pipe and other appurtenances as required.
- C. Install Hydrant as shown on on plans or as directed by Engineer.
- D. Hydrant color: paint hydrant red to safety flange and black below flange; Tnemec alkyd system for exterior exposure, or equal; surface preparation SSPC-S\_6 commercial blast.

PROJECT: CEE: 4850	DATE : 05/08/2026	DRAWN BY: SJH	REVISION:
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**TRUCK REROUTING AND  
PAVEMENT REPLACEMENT**

SHEET NAME  
GENERAL NOTES

SHEET NO.  
**C.02**

NPDES

- A. This project is subject to Section 402 (b) of the Clean Water Act and Iowa Code Section 455B. 174 and 567IAC 64.4 (projects disturbing 1 or more total acres) and requires issuance of a National Pollution Discharge Elimination System (NPDES) General Permit No. 2, or an individual NPDES Permit for Stormwater Discharge Associated with Industrial Activity for Construction Activities.
- B. Erosion Control and Permit Requirements
1. Contractor will be the responsible party for applying for, implementing and complying with general Permit No. 2 for stormwater discharge and construction activities associated with this project. Contractor shall be the permitted and solely responsible for compliance and costs associated therewith, including those specifically referenced herein.
  2. Contractor will be responsible for preparation of a Stormwater Pollution Prevention Plan. Contractor responsible to retain or engage persons knowledgeable in the preparation of a Stormwater Pollution Prevention Plan shall be prepared in a manner that complies with all applicable requirements.
  3. Contractor will be the responsible party for publishing notice in newspapers as required for General Permit No. 2. The Contractor will be the responsible party for preparing and submitting Notice of Intent to the Iowa Department of Natural Resources for General Permit No. 2. Contractor responsible to pay all fees and costs associated with preparation of the Stormwater Pollution Prevention Plan, publication of notice and filing of Notice of Intent for coverage under General Permit No. 2.
  4. Contractor will be the responsible party for implementation and monitoring of compliance with Stormwater Pollution Prevention Plan requirements and General Permit No. 2.
  5. Contractor responsible party for filing of Notice of Discontinuation of General Permit No. 2 after vegetative growth has been re-established to the required levels of the permit.
  6. Contractor will be responsible party for all fees and fines associated with the permit and permit violations.
  7. Contractor will be responsible for maintaining a copy of the Stormwater Pollution Prevention Plan on the project site and for all site inspections and monitoring required by the permit.
  8. Contractor will become the permitted. Contractor must identify which contracting entity will be responsible for each portion of the Stormwater Pollution Prevention Plan and maintain the site in compliance with the Pollution Prevention Plan and NDES Permit.
  9. All subcontractors must sign the NDES certification statement before conducting any work at the site. The certification must be signed in accordance with the signatory requirements found in the general permit and must be incorporated in the Stormwater Pollution Prevention Plan.
  10. In the event the Iowa Department of Natural Resources considers the City of West Branch to be co-permitted, the Contractor agrees to indemnify and hold harmless the City of West Branch for all issues and activities relating to the Stormwater Pollution Prevention Plan and permit including, but not limited to, fines and penalties.
  11. Contractor must submit Stormwater Pollution Prevention Plan and documentation relating to General Permit No. 2 to the City of West Branch. The City of West Branch may review and require modification of said plan and documentation, but is not required to do so by this contract or by law.
  12. Contractor responsible to develop phasing and staging plans for implementation of Stormwater Pollution Prevention Plan.
  13. City of West Branch will not be responsible for maintenance or inspection of erosion control facilities or other activities or devices identified under the Stormwater Pollution Prevention Plan.
  14. Contractor responsible to complete all requirements for NPDES General Permit No. 2 in a timely manner to avoid any delays in start of construction; notice to proceed for construction will not be issued until all General Permit No. 2 requirements have been met; no extension of times for completion of construction will be granted for failure to timely meet requirements of General Permit No. 2.

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**TRUCK REROUTING AND**

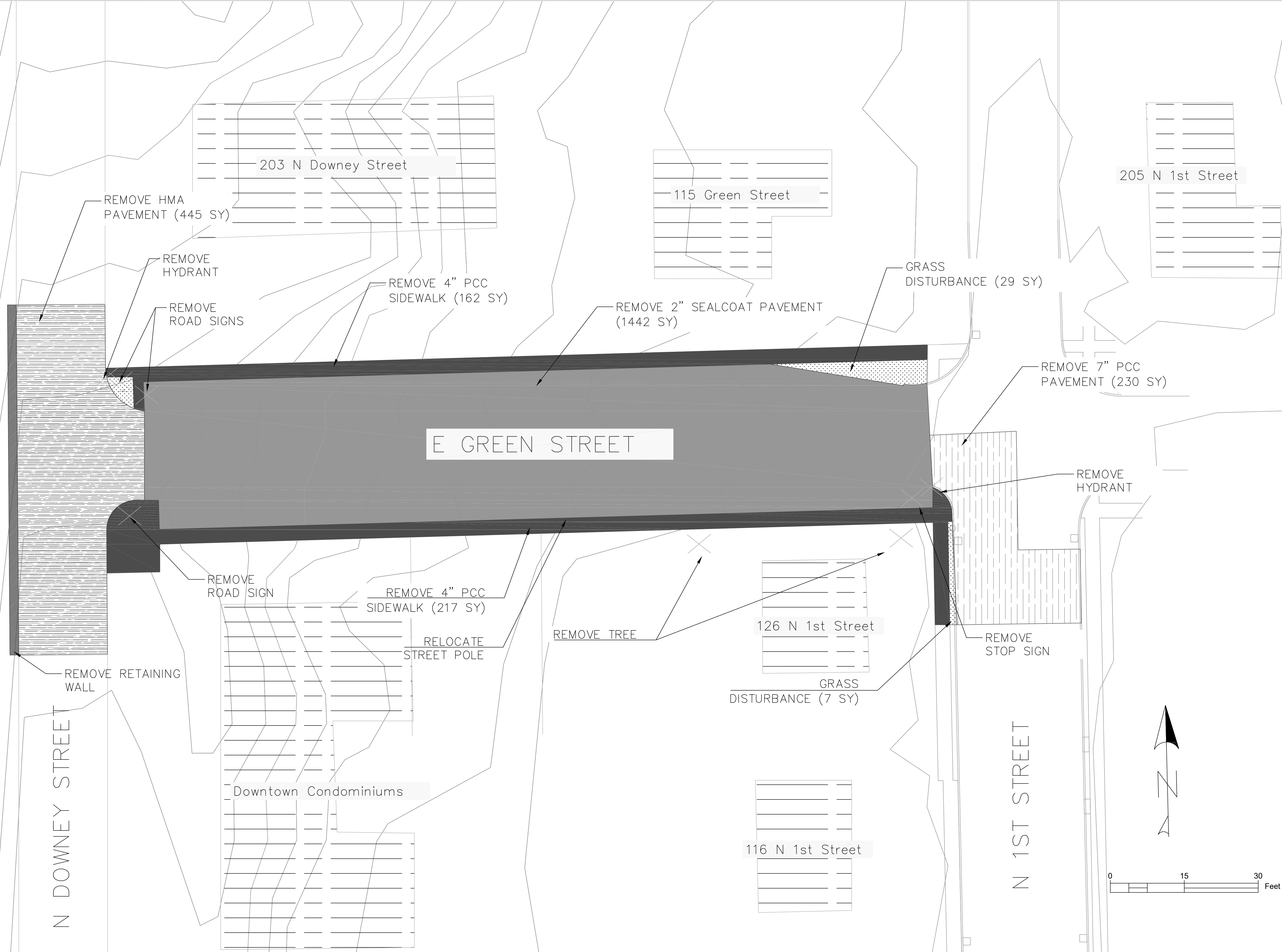
**PAVEMENT REPLACEMENT**

SHEET NAME

GENERAL NOTES

SHEET NO.

**C.03**



PROJECT: CEE-4850  
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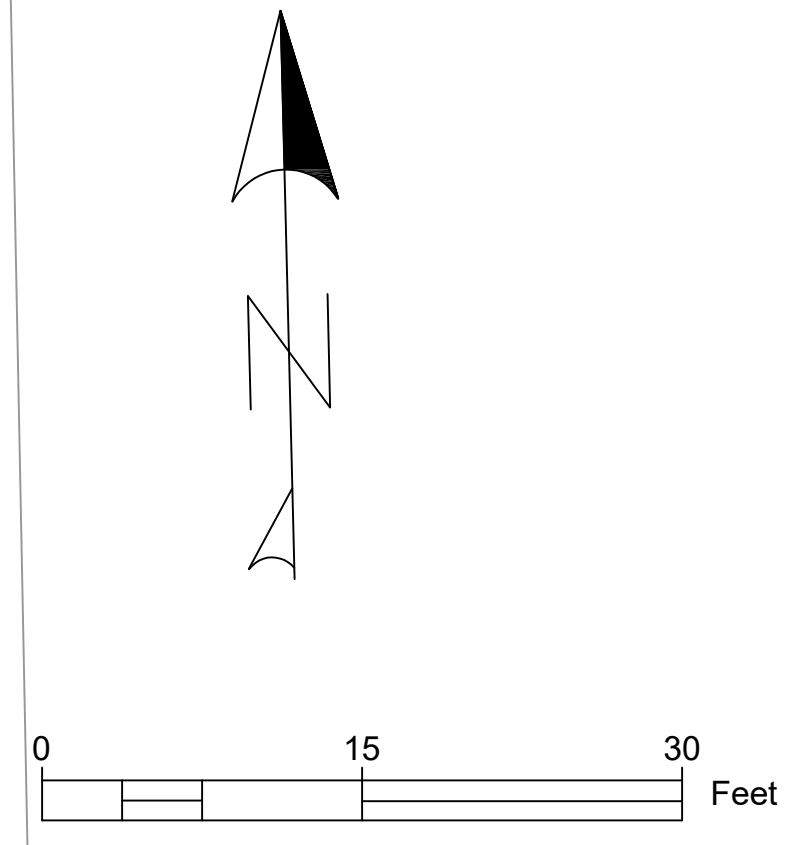
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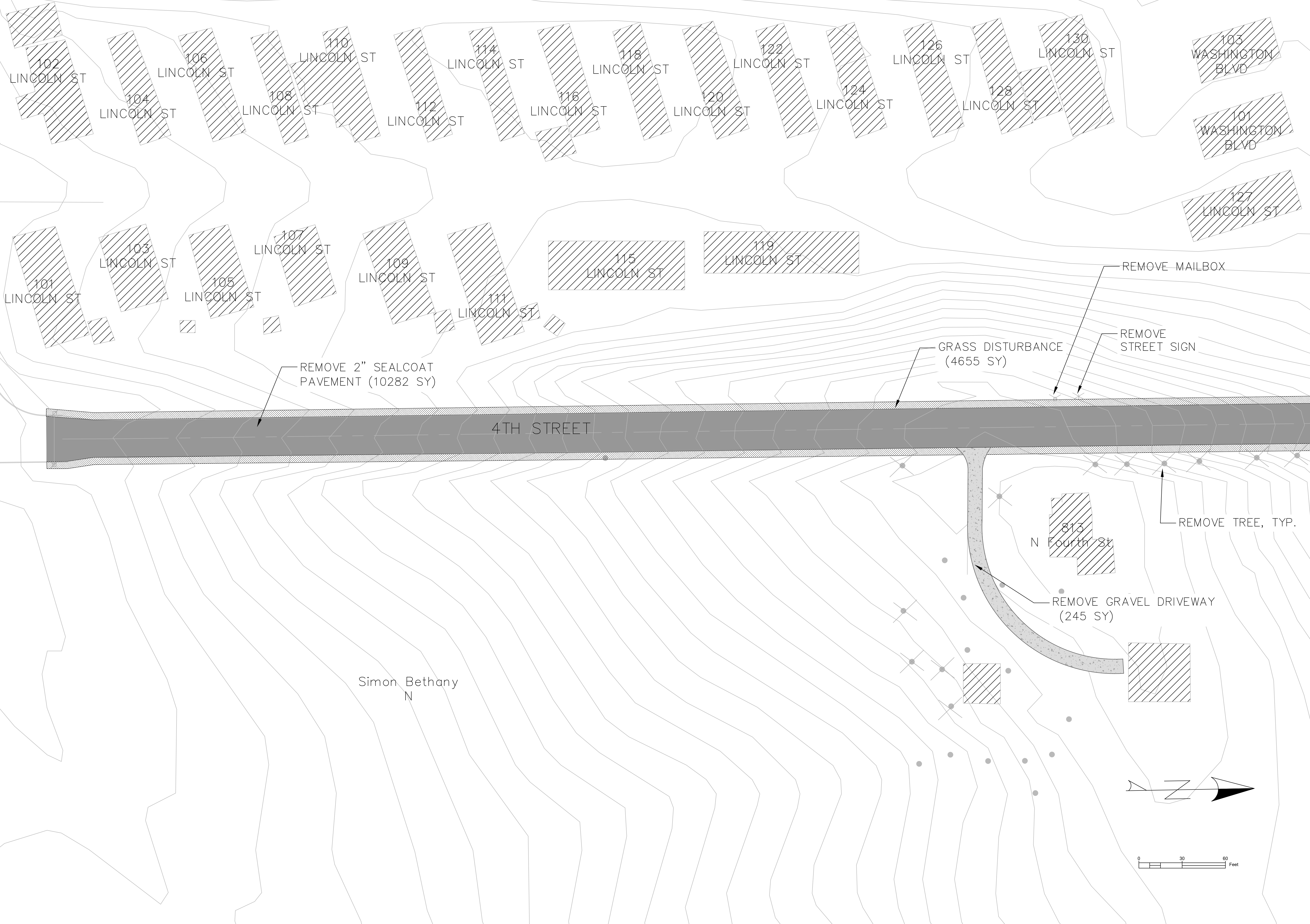
**TRUCK REROUTING AND  
 PAVEMENT REPLACEMENT**

SHEET NAME  
 DEMOLITION PLAN

SHEET NO.

**D.01A**





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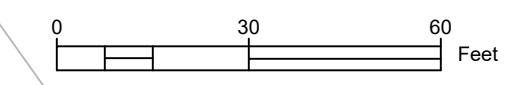
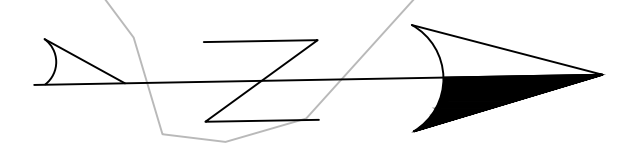
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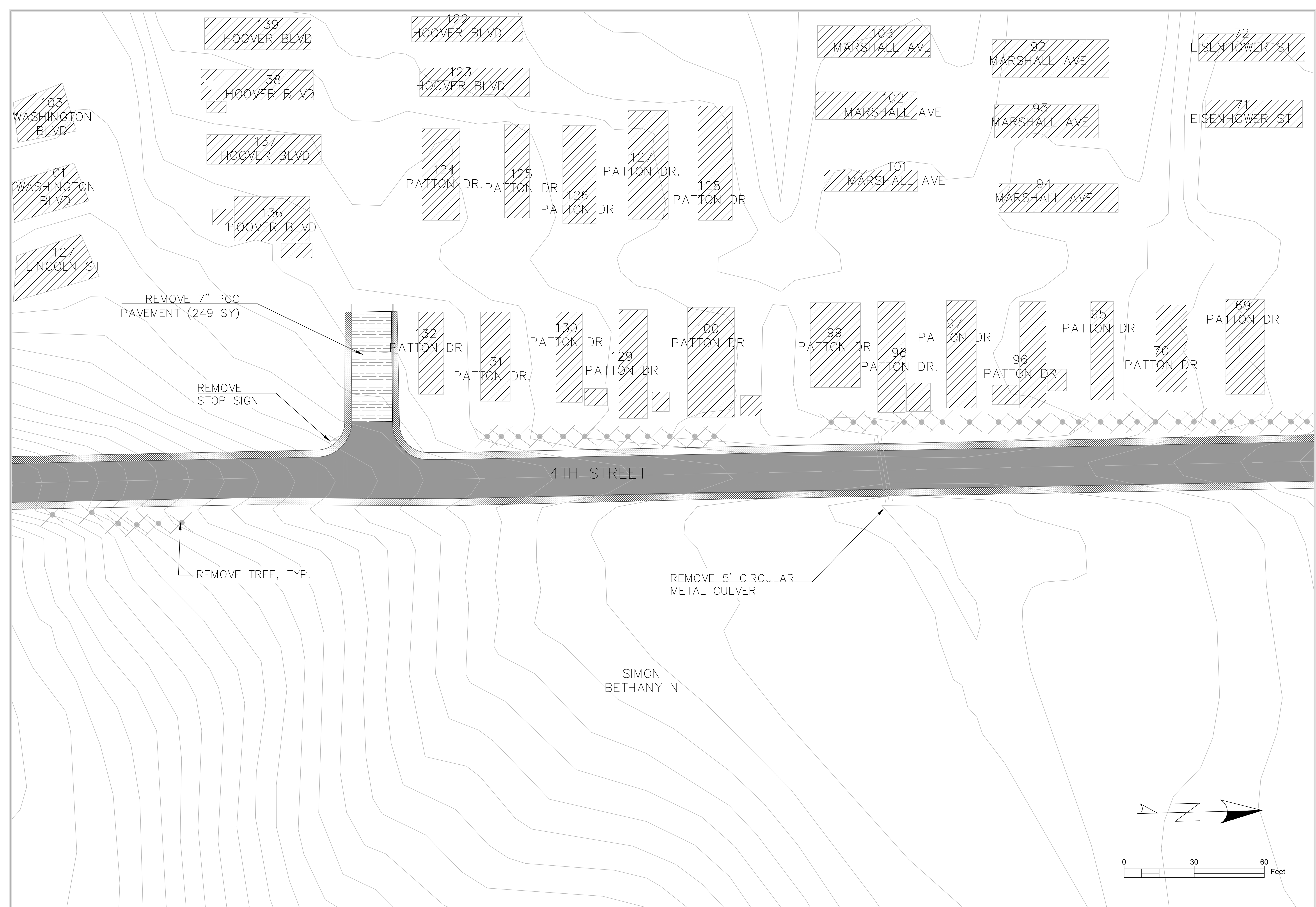
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**TRUCK ROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 DEMOLITION PLAN

SHEET NO.  
**D.01B**





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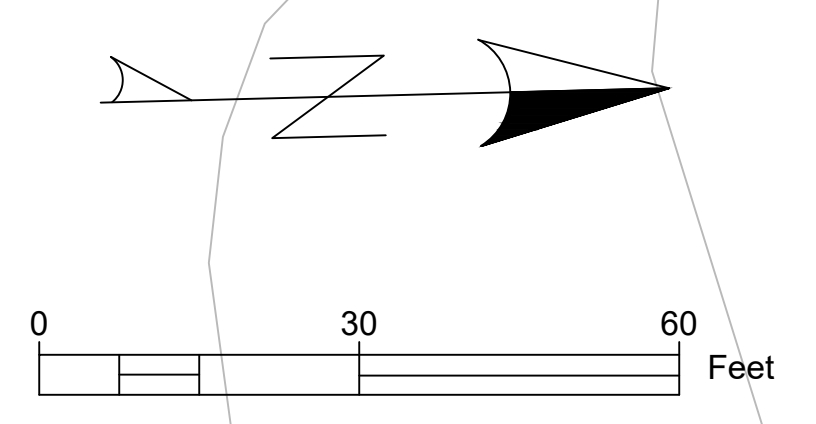
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SHEET NAME  
 DEMOLITION PLAN

SHEET NO.  
**D.02B**



REMOVE TREE, TYP.

REMOVE 5' CIRCULAR  
 METAL CULVERT

REMOVE 7" PCC  
 PAVEMENT (249 SY)

REMOVE  
 STOP SIGN

4TH STREET

SIMON  
 BETHANY N

139  
 HOOVER BLVD

122  
 HOOVER BLVD

103  
 MARSHALL AVE

92  
 MARSHALL AVE

72  
 EISENHOWER ST

103  
 WASHINGTON  
 BLVD

138  
 HOOVER BLVD

123  
 HOOVER BLVD

102  
 MARSHALL AVE

93  
 MARSHALL AVE

71  
 EISENHOWER ST

101  
 WASHINGTON  
 BLVD

137  
 HOOVER BLVD

124  
 PATTON DR.

125  
 PATTON DR

126  
 PATTON DR

127  
 PATTON DR.

128  
 PATTON DR

101  
 MARSHALL AVE

94  
 MARSHALL AVE

127  
 LINCOLN ST

136  
 HOOVER BLVD

124  
 PATTON DR.

125  
 PATTON DR

126  
 PATTON DR

127  
 PATTON DR.

128  
 PATTON DR

99  
 PATTON DR

98  
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97  
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96  
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70  
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69  
 PATTON DR

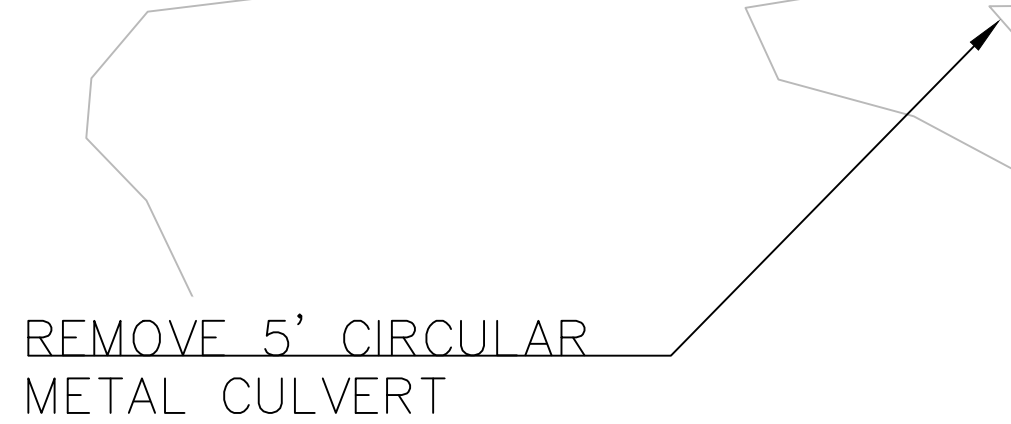
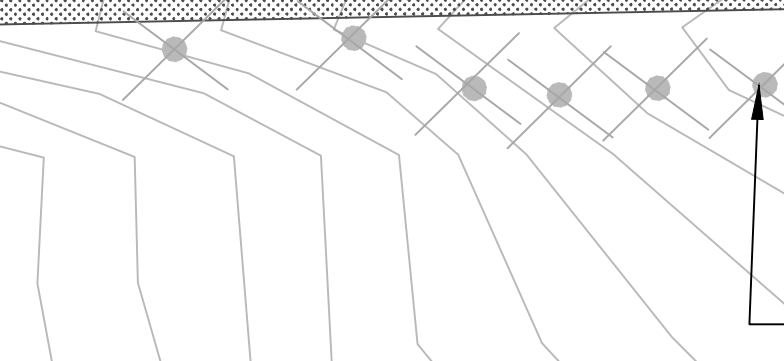
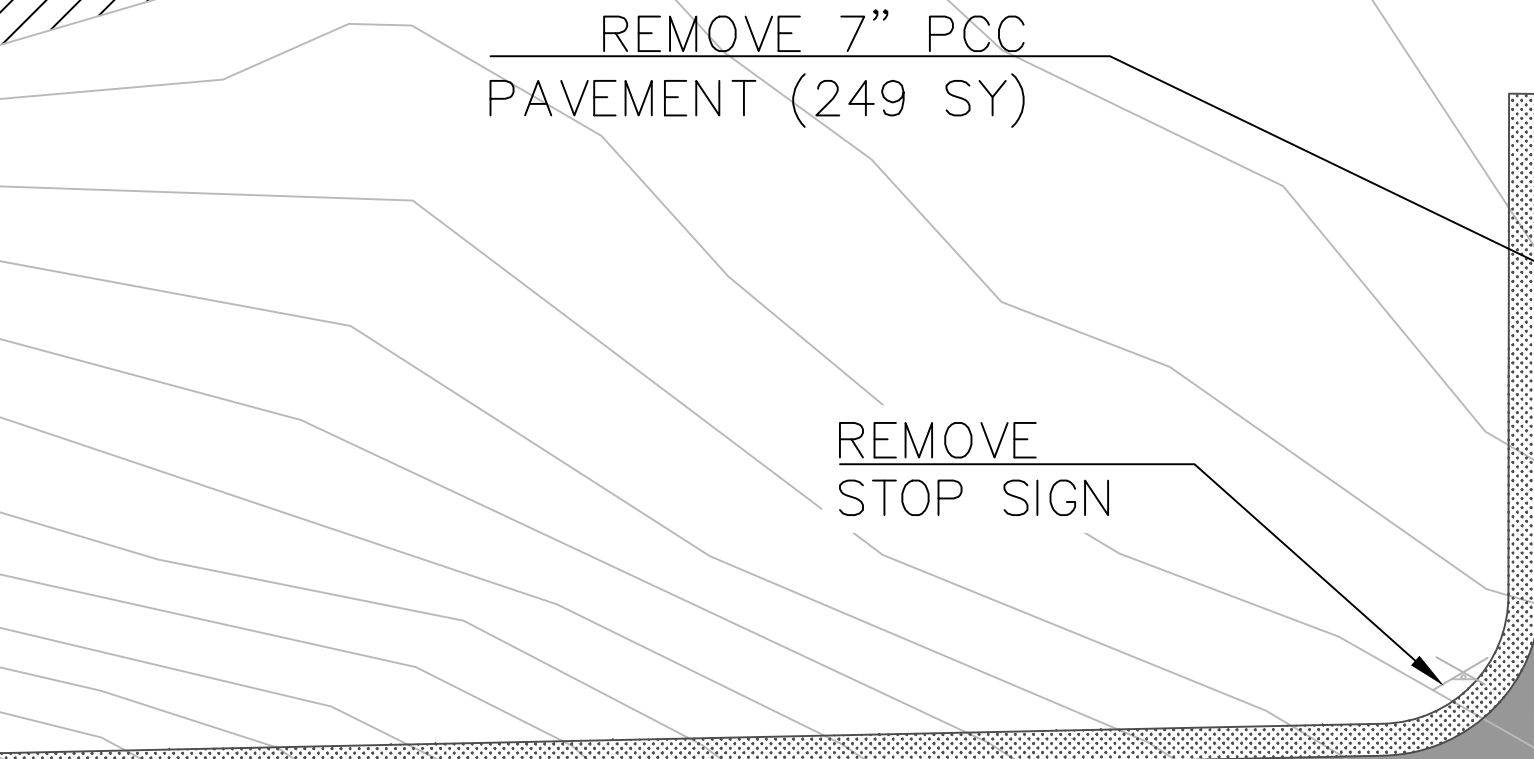
132  
 PATTON DR

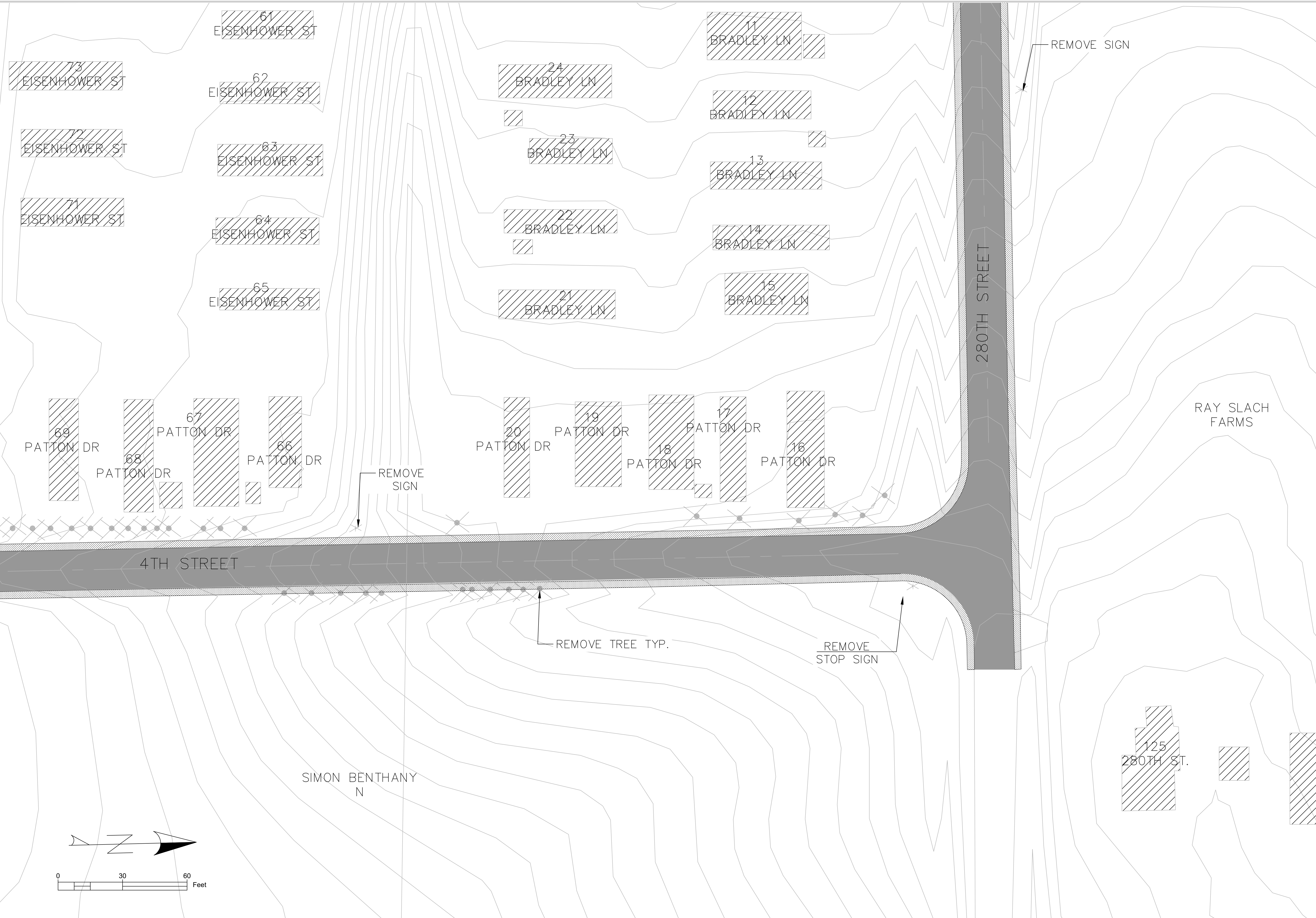
131  
 PATTON DR.

130  
 PATTON DR

129  
 PATTON DR

100  
 PATTON DR





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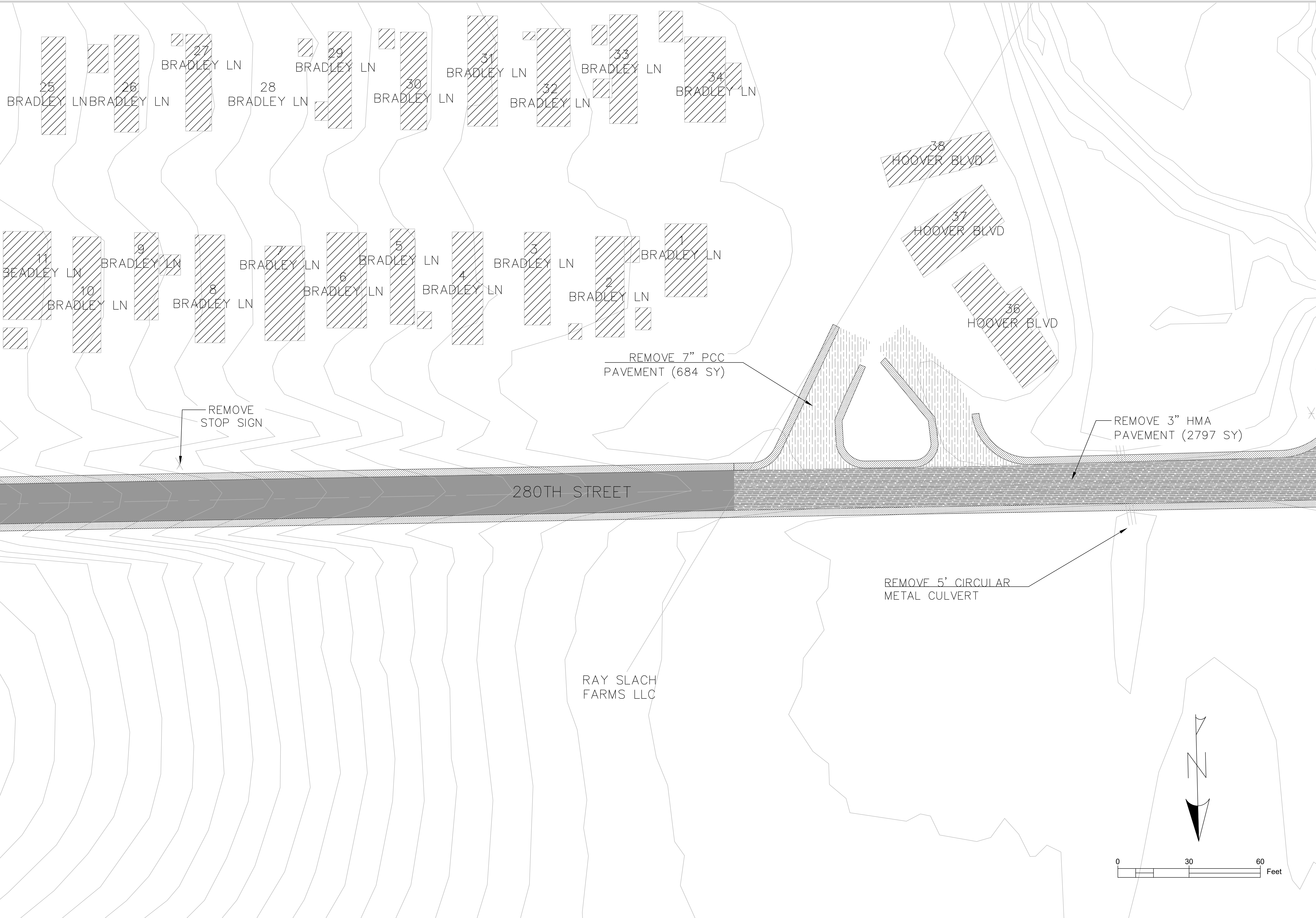
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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 DEMOLITION PLAN

SHEET NO.  
**D.03B**



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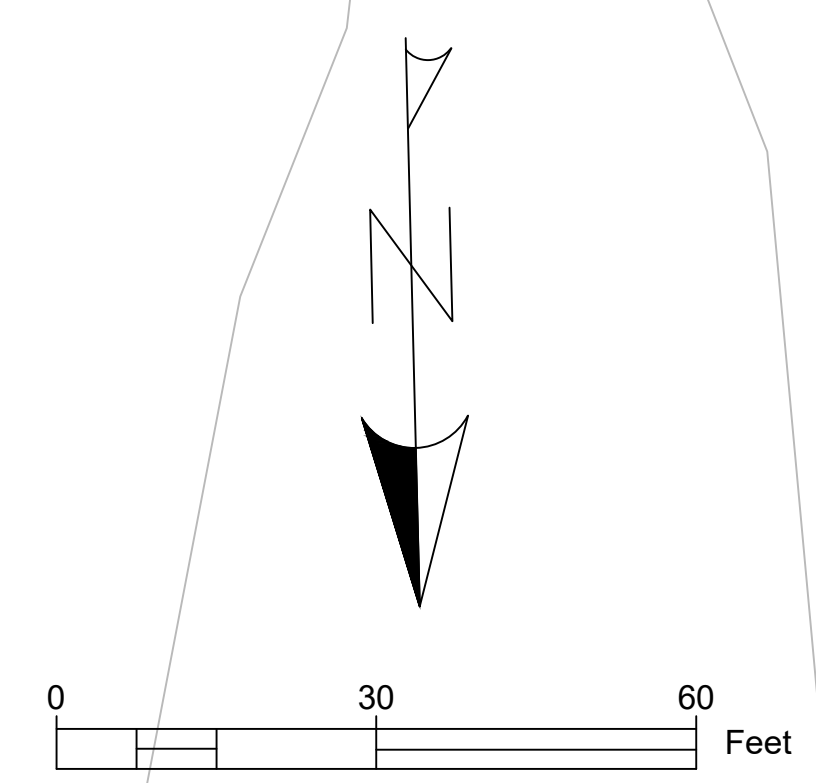
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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 DEMOLITION PLAN

SHEET NO.  
**D.04B**



REMOVE STOP SIGN

REMOVE 7" PCC PAVEMENT (684 SY)

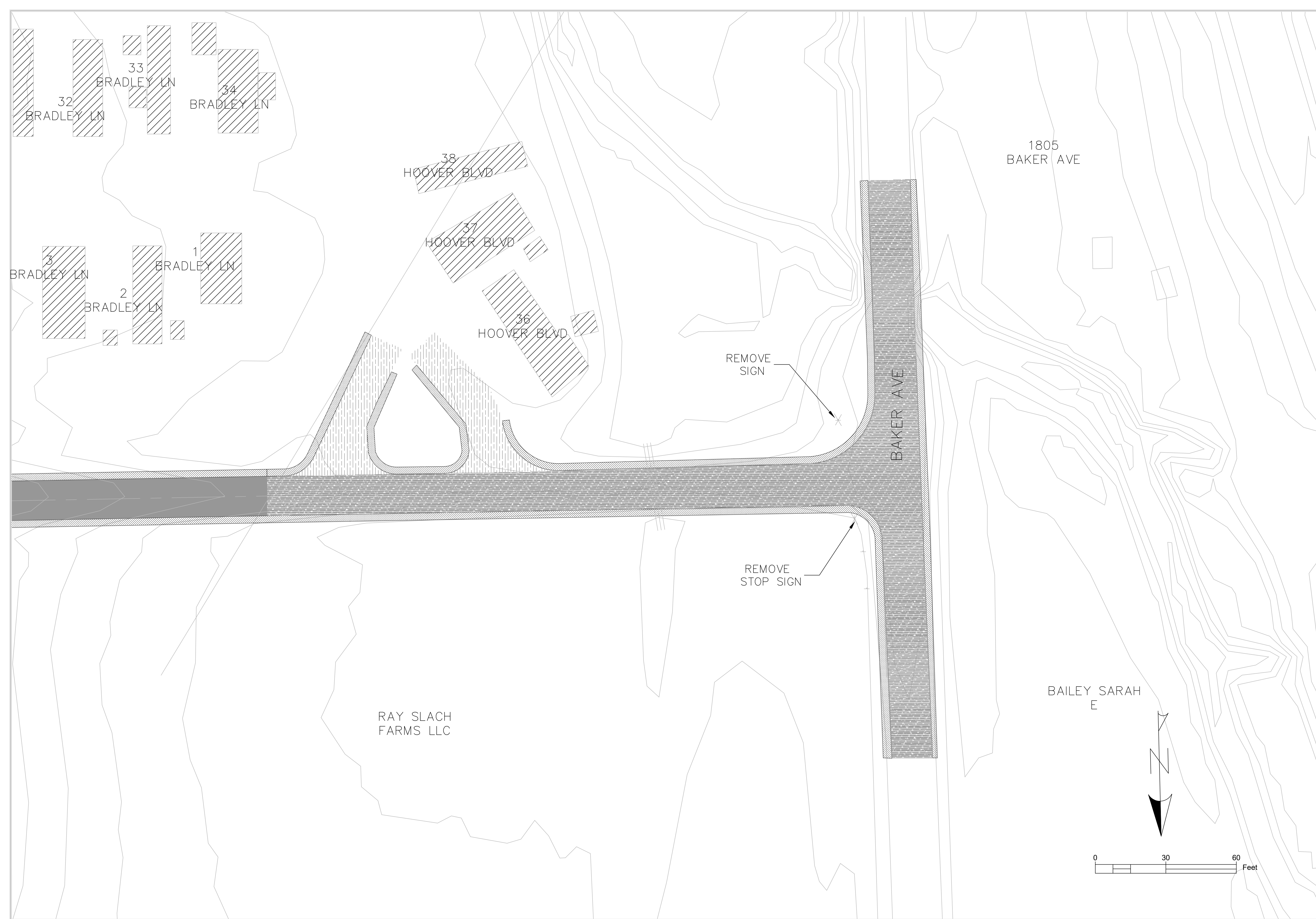
REMOVE 3" HMA PAVEMENT (2797 SY)

REMOVE 5' CIRCULAR METAL CULVERT

280TH STREET

RAY SLACH FARMS LLC

BRADLEY LN 25  
 BRADLEY LN 26  
 BRADLEY LN 27  
 BRADLEY LN 28  
 BRADLEY LN 29  
 BRADLEY LN 30  
 BRADLEY LN 31  
 BRADLEY LN 32  
 BRADLEY LN 33  
 BRADLEY LN 34  
 BRADLEY LN 11  
 BRADLEY LN 10  
 BRADLEY LN 9  
 BRADLEY LN 8  
 BRADLEY LN 6  
 BRADLEY LN 5  
 BRADLEY LN 4  
 BRADLEY LN 3  
 BRADLEY LN 2  
 BRADLEY LN 1  
 BRADLEY LN 38  
 BRADLEY LN 37  
 BRADLEY LN 36



PROJECT: CEE: 4860  
 DATE : 05/08/2026  
 DRAWN BY: SJH  
 REVISION:

**THE UNIVERSITY OF IOWA**  
**CIVIL AND ENVIRONMENTAL ENGINEERING**  
 4105 SEAMANS CENTER FOR THE  
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 IOWA CITY, IOWA 52242  
 PHONE: 319.335.5647  
 FAX: 319.335.5660  
 EMAIL: civil-hawks@iowad.edu

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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 DEMOLITION PLAN

SHEET NO.  
**D.05B**

REMOVE 18" RCP FFS

REMOVE 18"  
RCP (51 LF)

REMOVE 18"  
RCP (31 LF)

REMOVE 15"  
RCP (35 LF)

REMOVE 48" x 48" STORM INLET

REMOVE 18"  
RCP (68 LF)

REMOVE 48" x 96" STORM INLET

REAGAN BLVD

4TH STREET

PROJECT: CEE: 4860  
 DATE : 05/08/2026  
 DRAWN BY: NAS  
 REVISION:

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**TRUCK REROUTING AND  
PAVEMENT REPLACEMENT**

SHEET NAME  
DEMOLITION PLAN

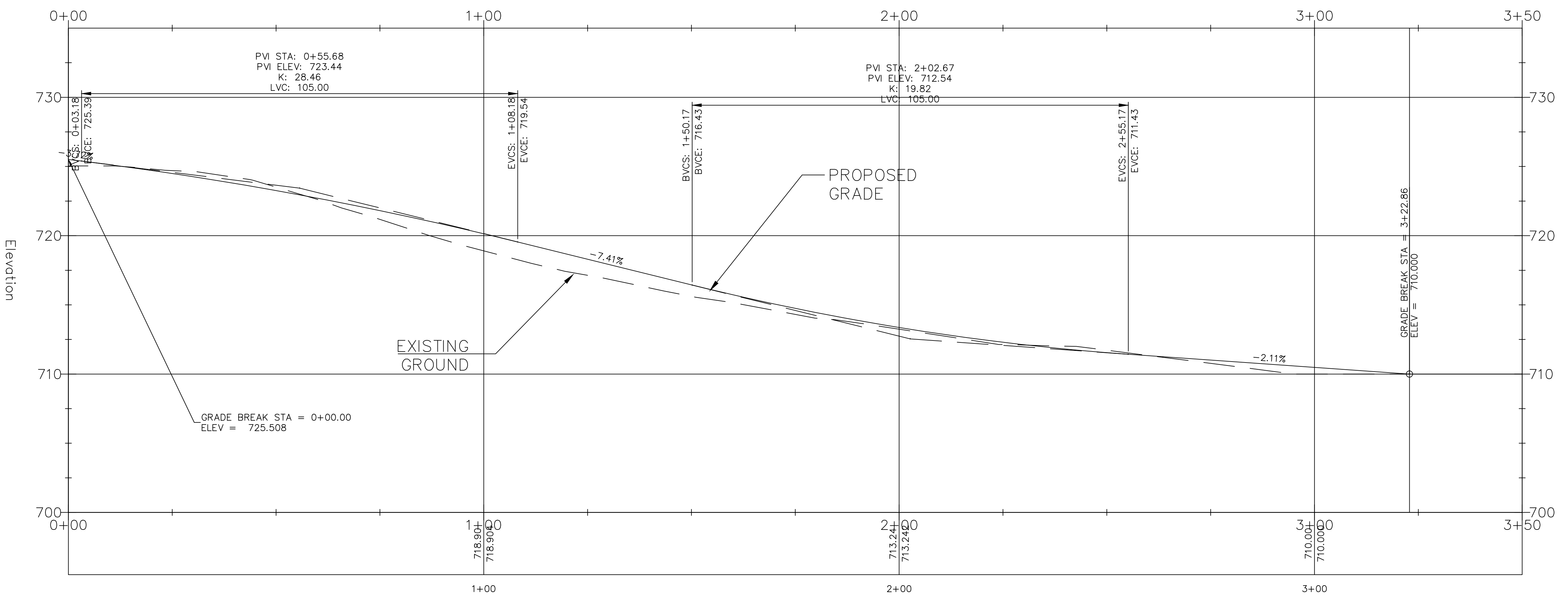
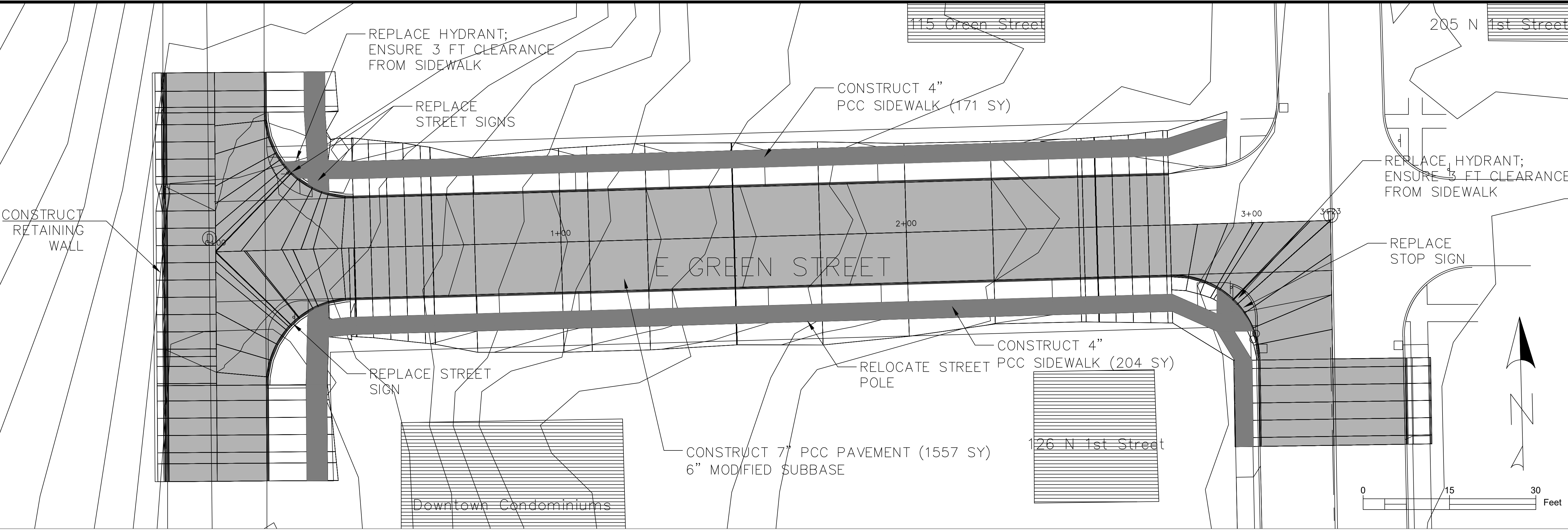
SHEET NO.  
**D.06B**

EDUCATIONAL - NOT FOR CONSTRUCTION

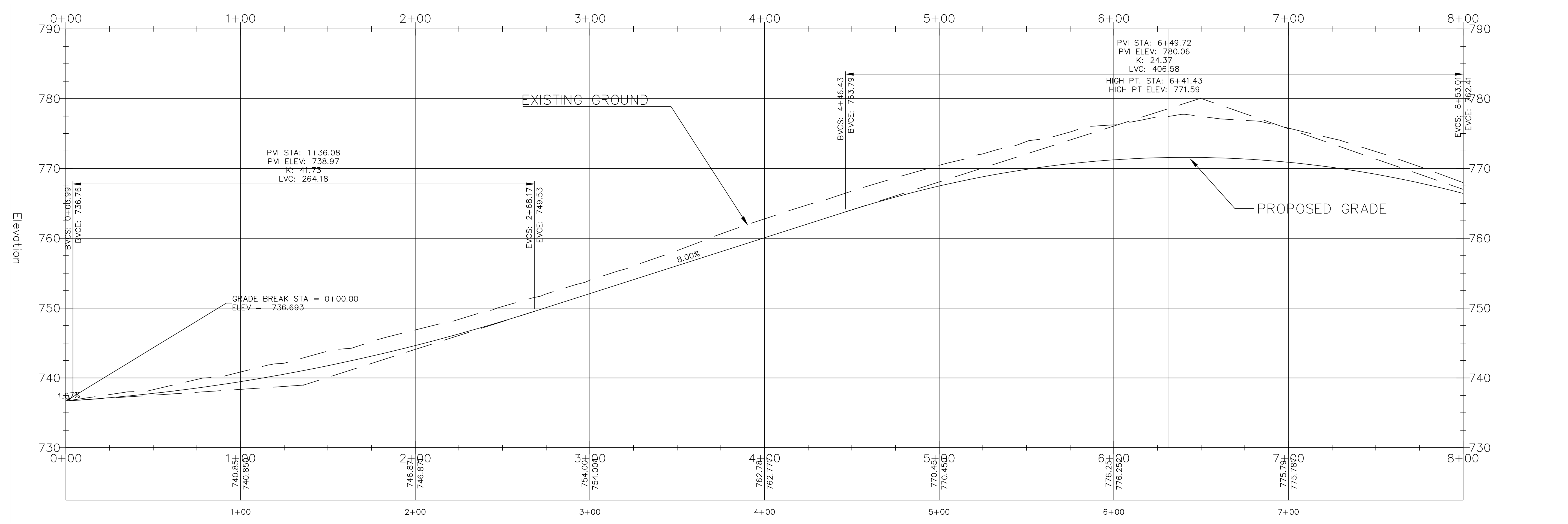
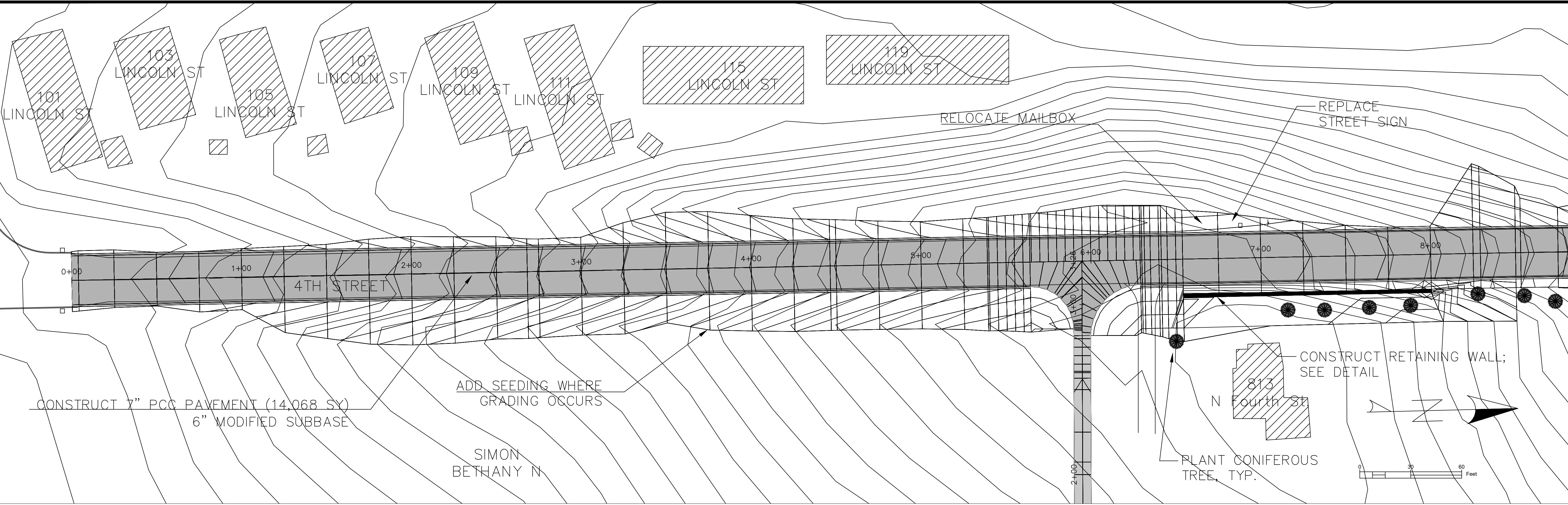
**TRUCK REROUTING AND  
 PAVEMENT REPLACEMENT**

SHEET NAME  
 PLAN AND PROFILE  
 GREEN STREET

SHEET NO.  
**E.01A**



GREEN STREET PROFILE



4TH STREET PROFILE

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	NAS
REVISION:	

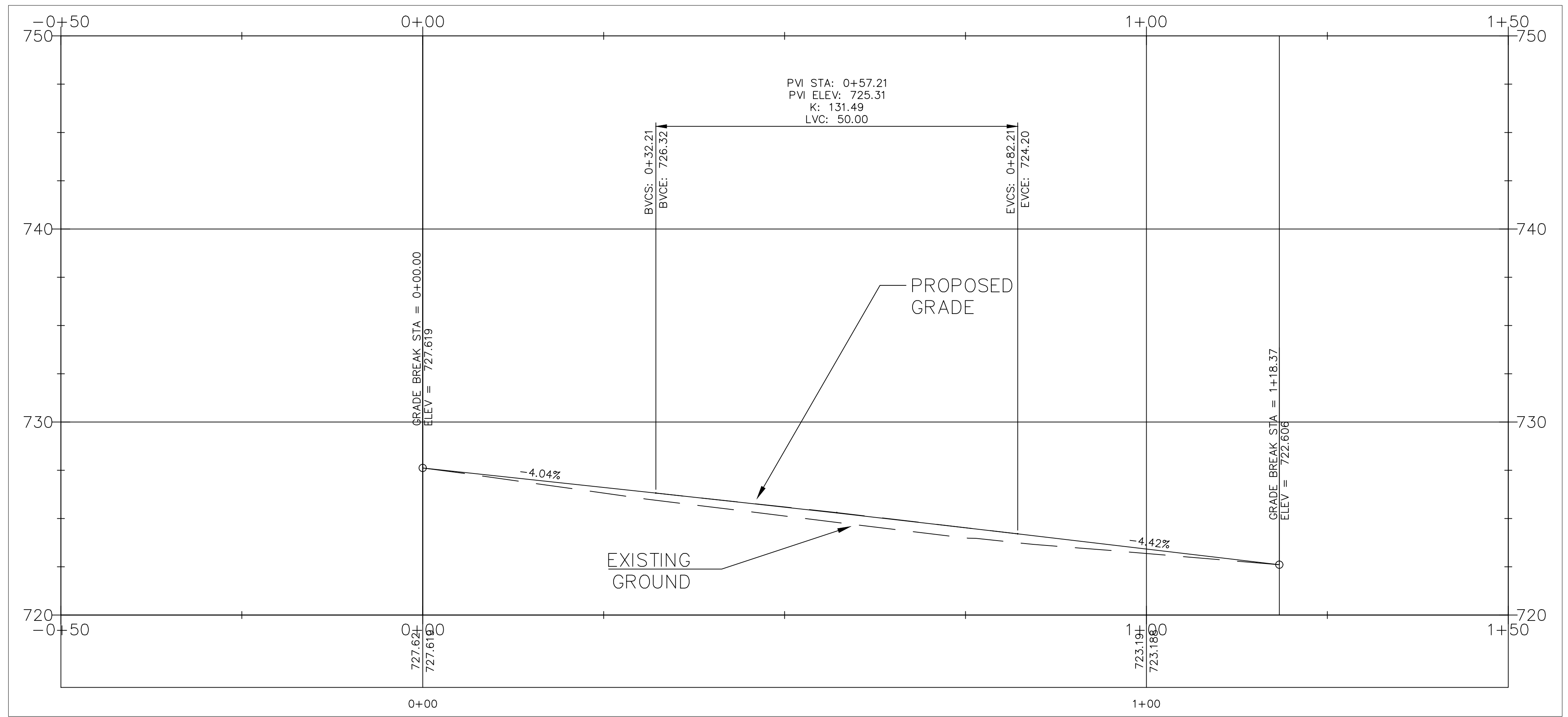
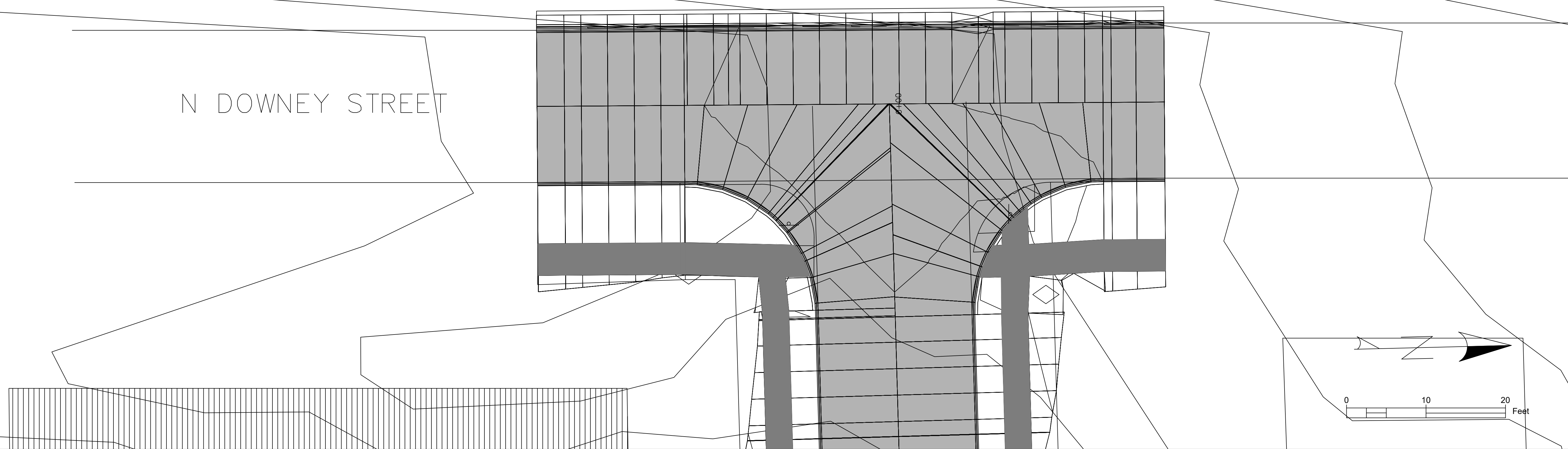
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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 PLAN AND PROFILE  
 4TH STREET

SHEET NO.  
**E.01B**



DOWNEY STREET PROFILE

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	NAS
REVISION:	

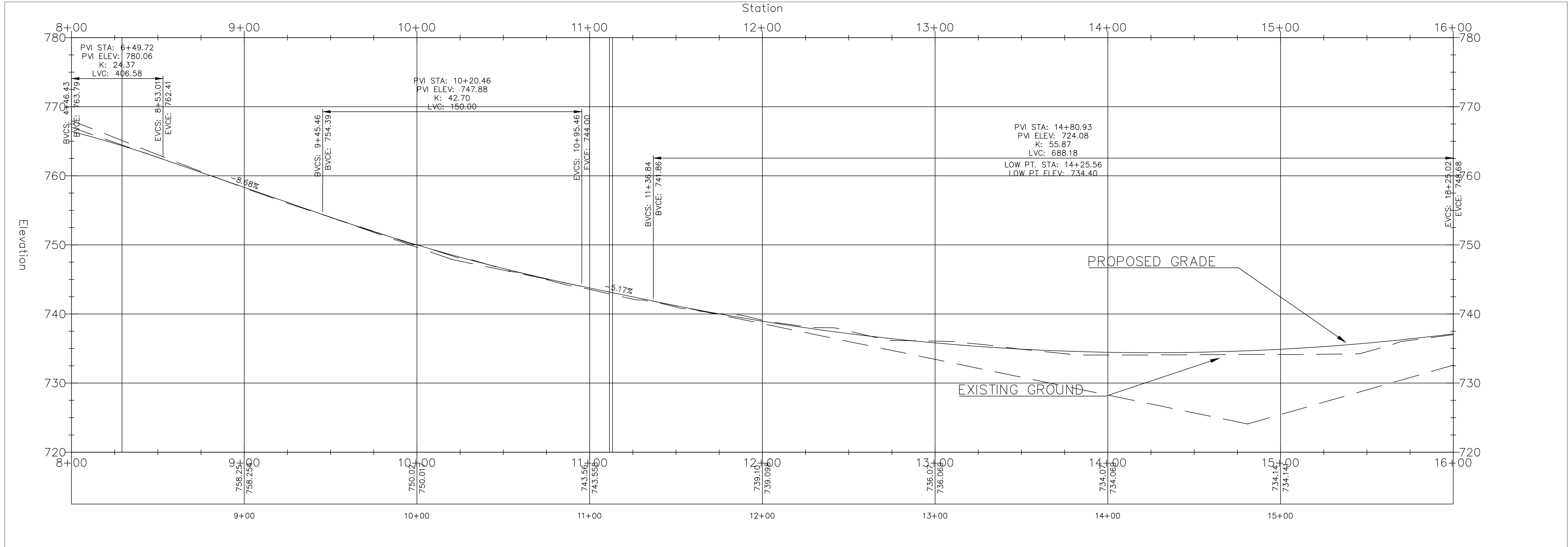
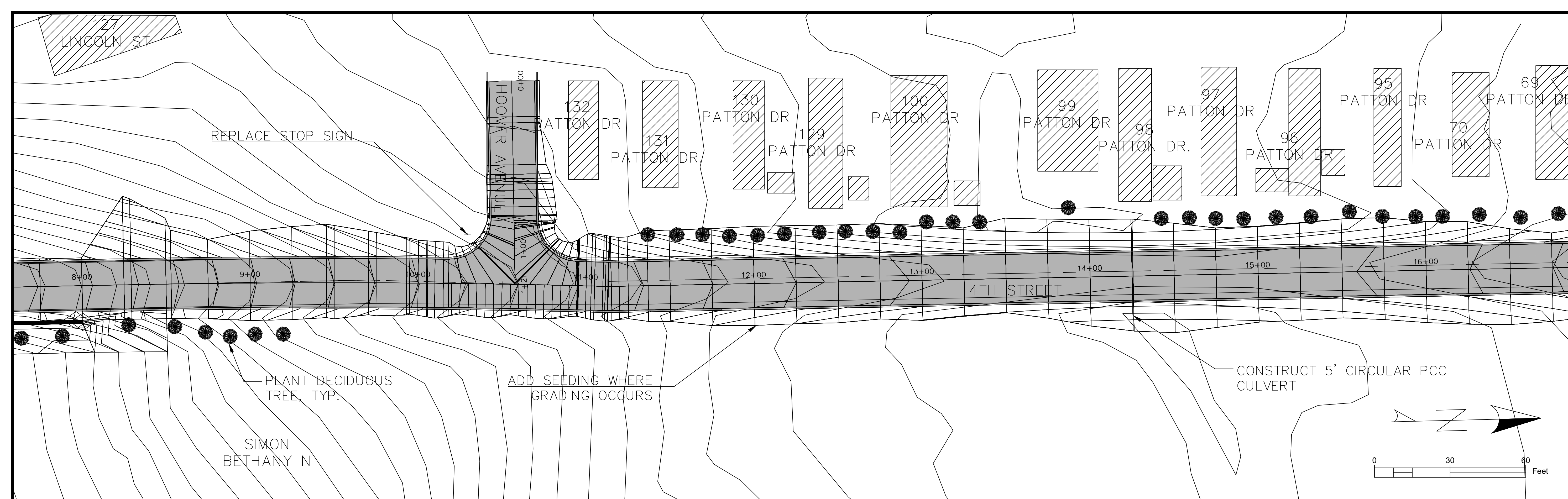
**THE UNIVERSITY OF IOWA**  
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**TRUCK REROUTING AND  
PAVEMENT REPLACEMENT**

SHEET NAME  
PLAN AND PROFILE  
DOWNEY STREET

SHEET NO.  
**E.02A**



4TH STREET PROFILE

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	NAS
REVISION:	

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**TRUCK REROUTING AND  
 PAVEMENT REPLACEMENT**

SHEET NAME  
 PLAN AND PROFILE  
 4TH STREET

SHEET NO.

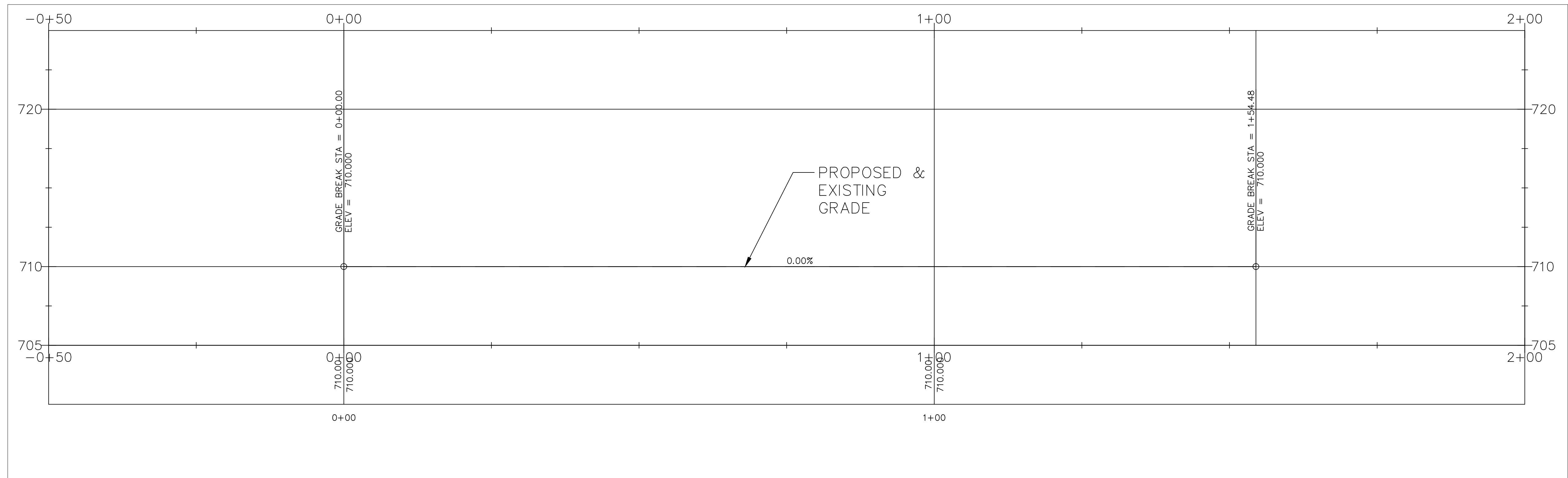
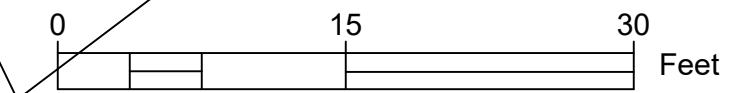
**E.02B**

N FIRST STREET

0+00

1+00

1+54



1ST STREET PROFILE

PROJECT: CEE: 4850  
 DATE : 05/08/2026  
 DRAWN BY: NAS  
 REVISION:

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 EMAIL: civil-hawks@iowad.edu

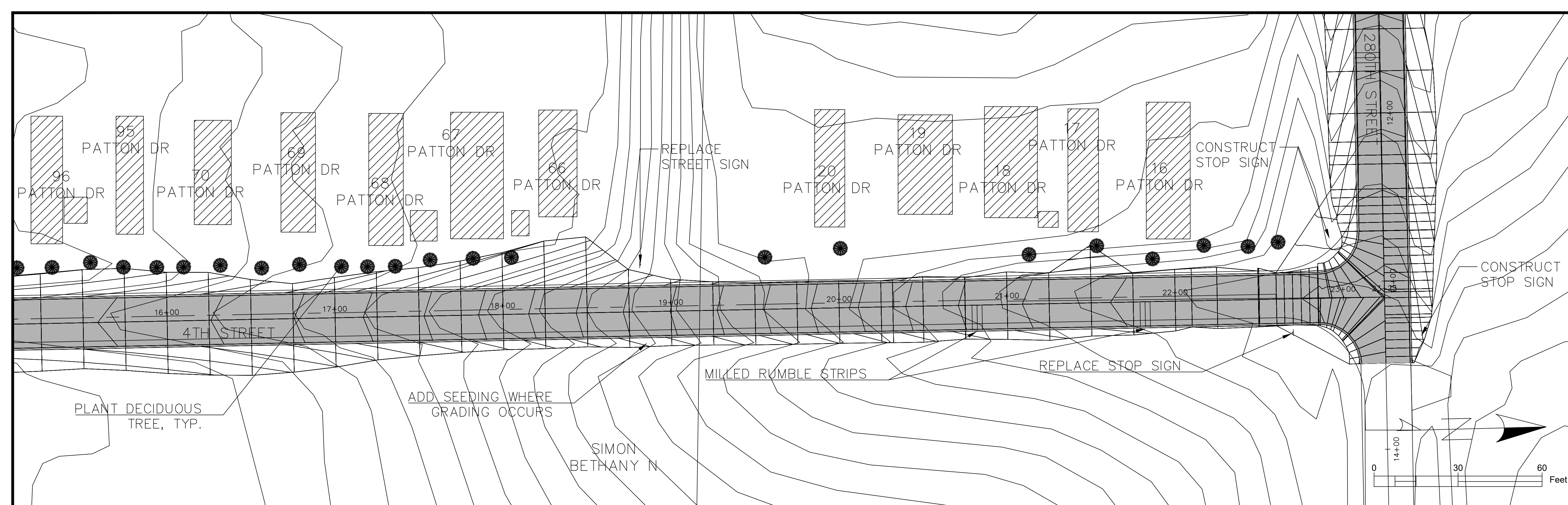
EDUCATIONAL - NOT FOR CONSTRUCTION

TRUCK REROUTING AND

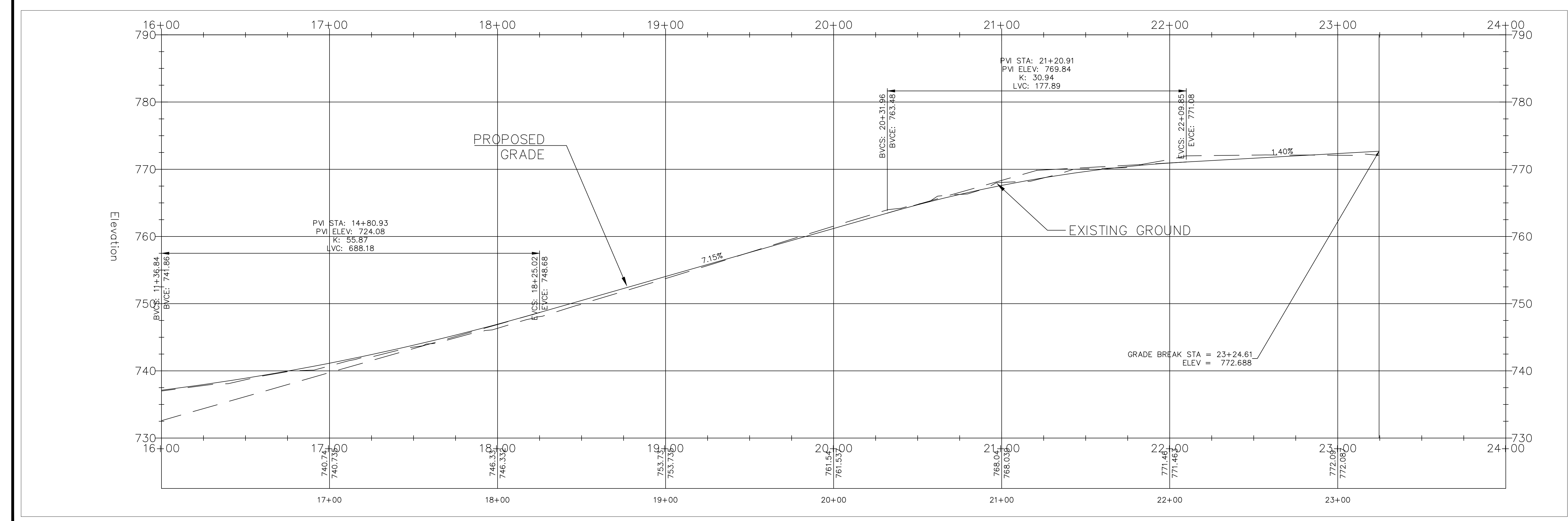
PAVEMENT REPLACEMENT

SHEET NAME  
PLAN AND PROFILE  
FIRST STREET

SHEET NO.  
**E.03A**



PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: NAS  
 REVISION:  
**THE UNIVERSITY OF IOWA**  
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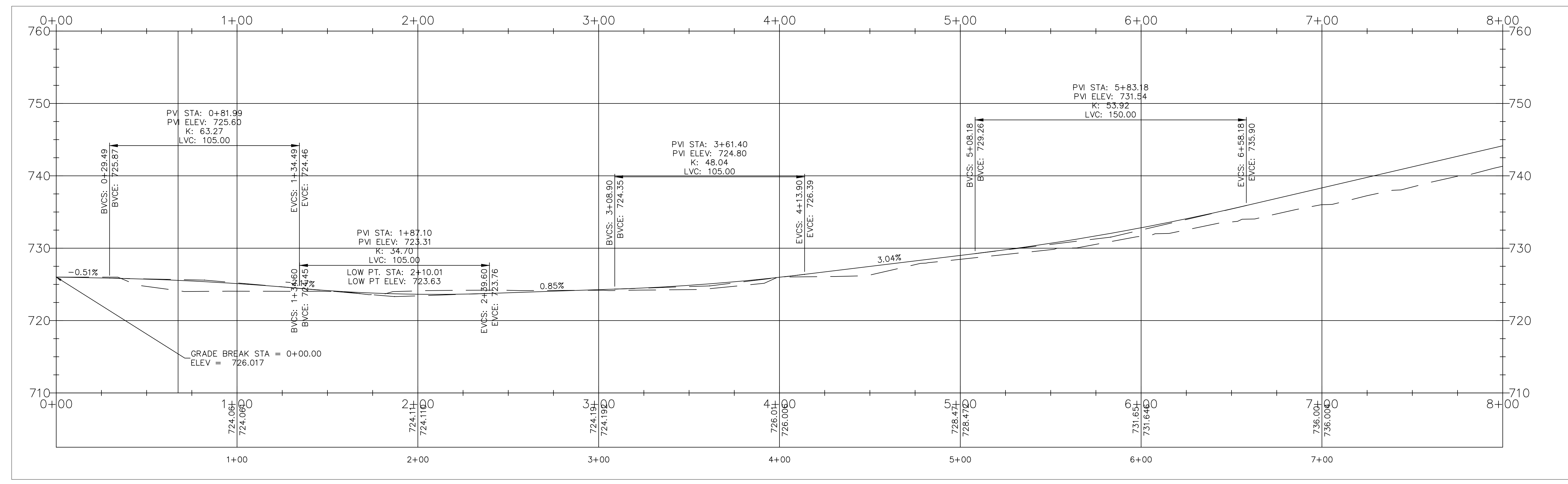
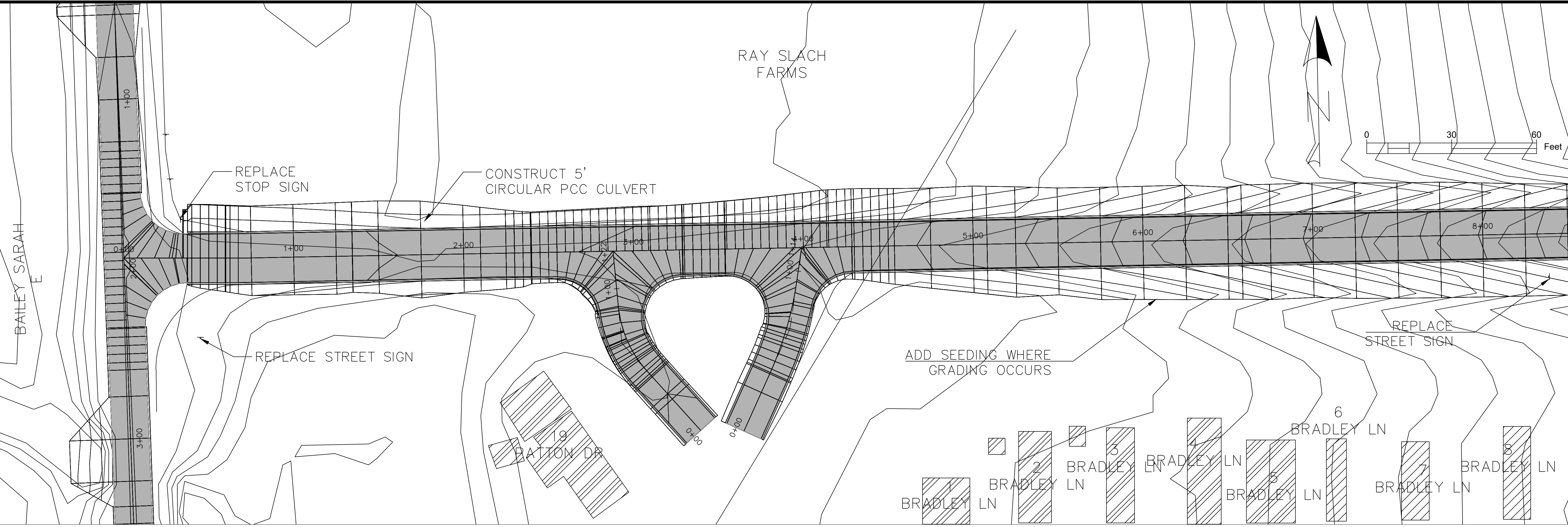
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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 PLAN AND PROFILE  
 4TH STREET

SHEET NO.  
**E.03B**

4TH STREET PROFILE



280TH STREET PROFILE

PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: NAS  
 REVISION:

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 FAX: 319.335.5660  
 EMAIL: civil-hawks@iowac.edu

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TRUCK REROUTING AND  
 PAVEMENT REPLACEMENT

SHEET NAME  
 PLAN AND PROFILE  
 280TH STREET

SHEET NO.  
**E.04B**

125  
280TH STREET

RAY SLACH  
FARMS

REPLACE STREET SIGN

MILLED RUMBLE STRIP

MILLED RUMBLE STRIP

PLANT TREE TYP.

ADD SEEDING WHERE  
GRADING OCCURS

BRADLEY LN

BRADLEY LN

BRADLEY LN

BRADLEY LN

BRADLEY LN

BRADLEY LN

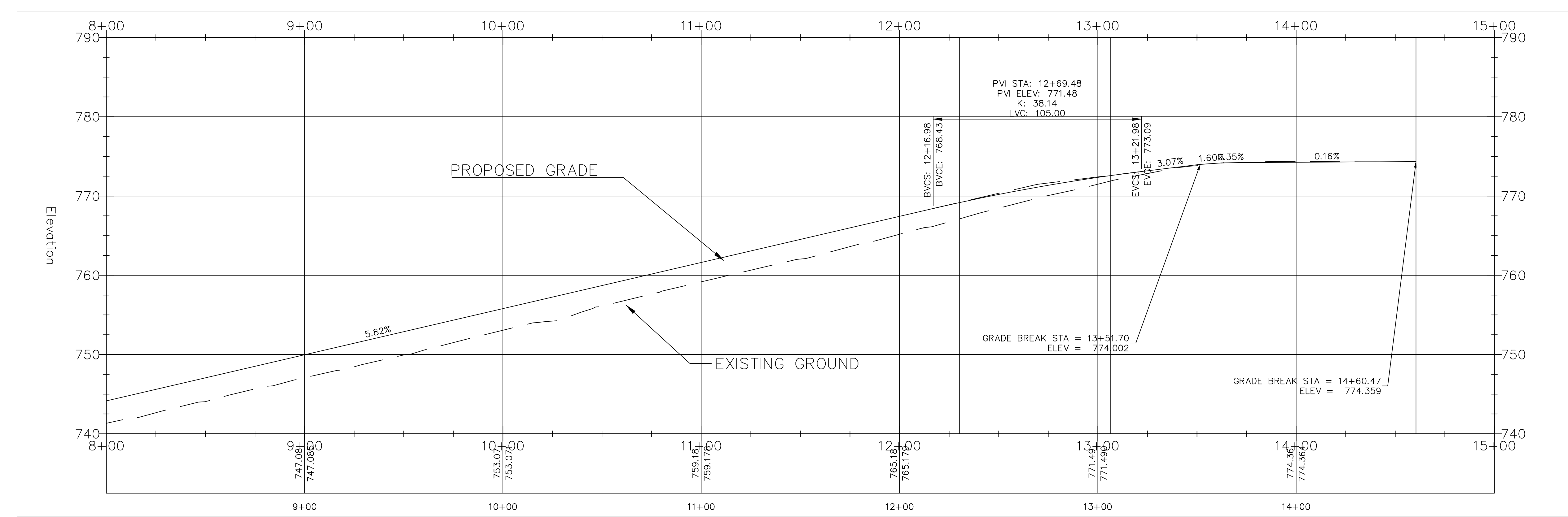
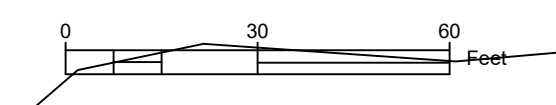
BRADLEY LN

BRADLEY LN

PATTON DR

PROJECT: CEE: 4850  
 DATE : 05/08/2026  
 DRAWN BY: NAS  
 REVISION:

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280TH STREET PROFILE

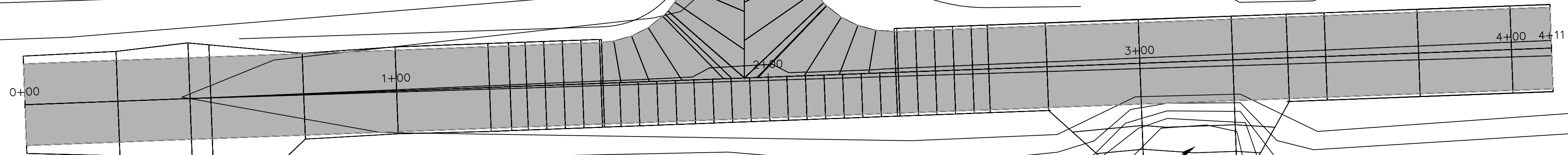
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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

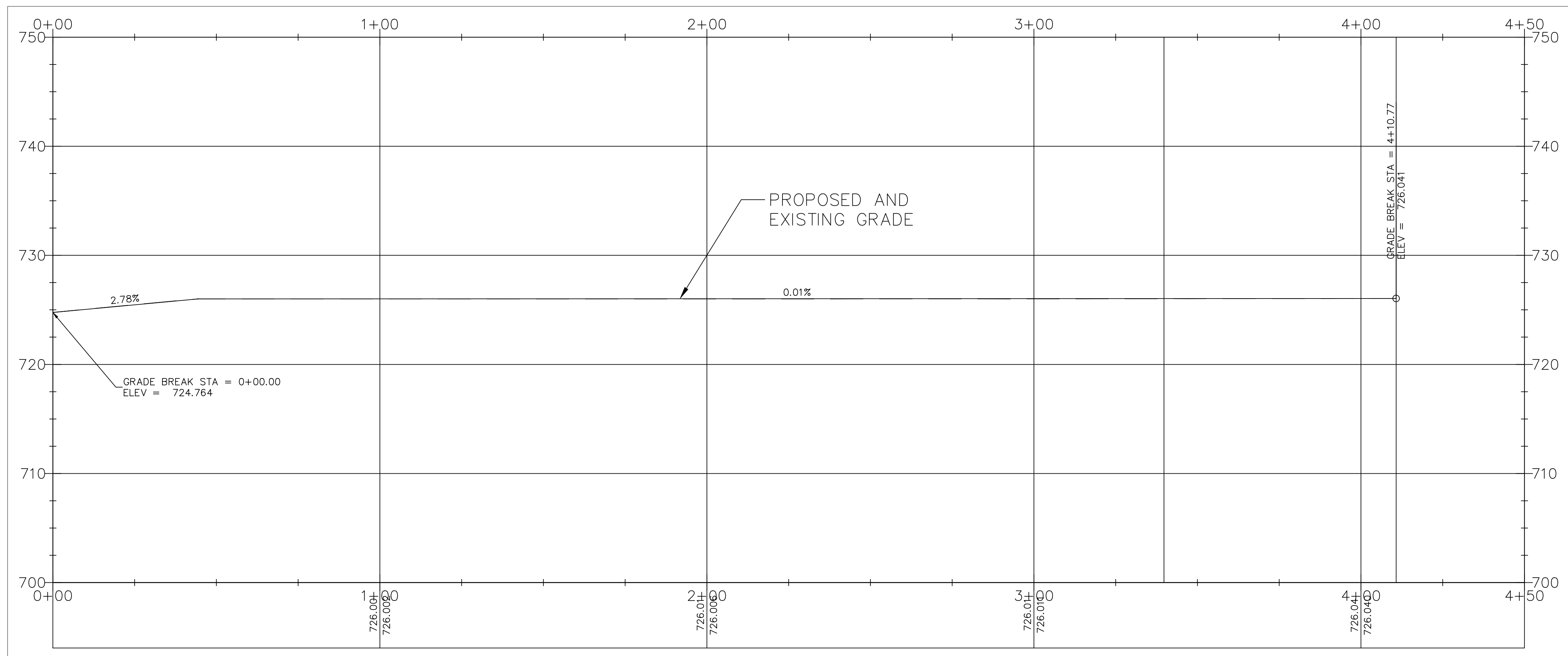
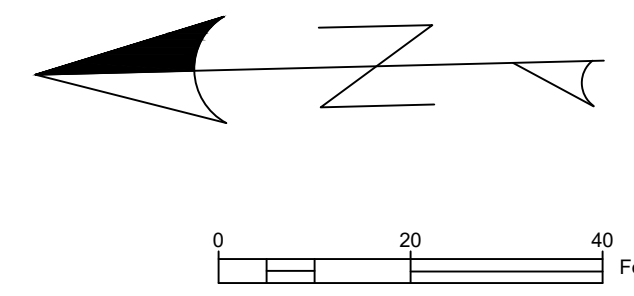
SHEET NAME  
PLAN AND PROFILE  
280TH STREET

SHEET NO.  
**E.05B**

RAY SLACH  
FARMS



ADD SEEDING WHERE  
GRADING OCCURS



BAKER AVENUE PROFILE

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	NAS
REVISION:	

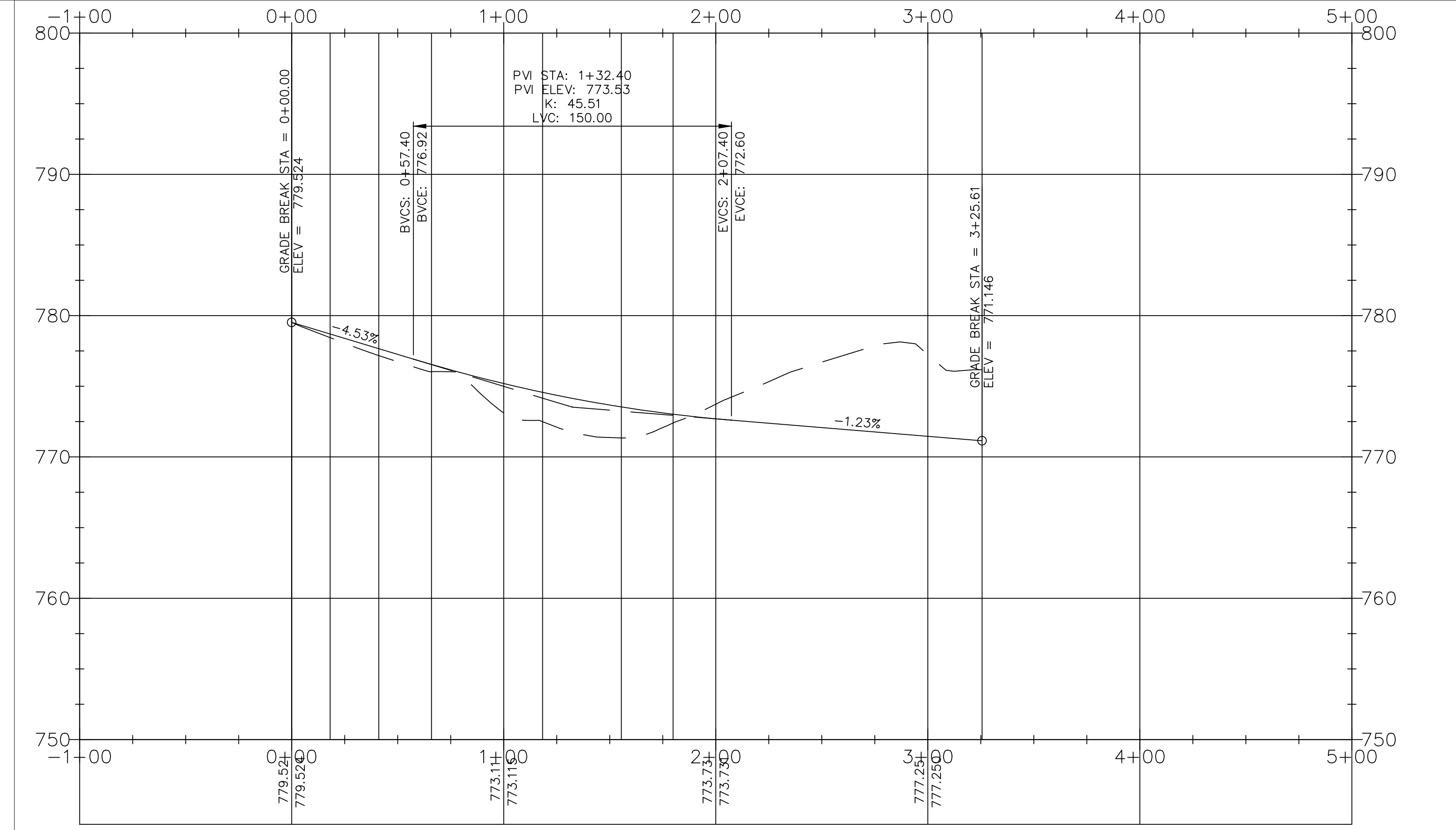
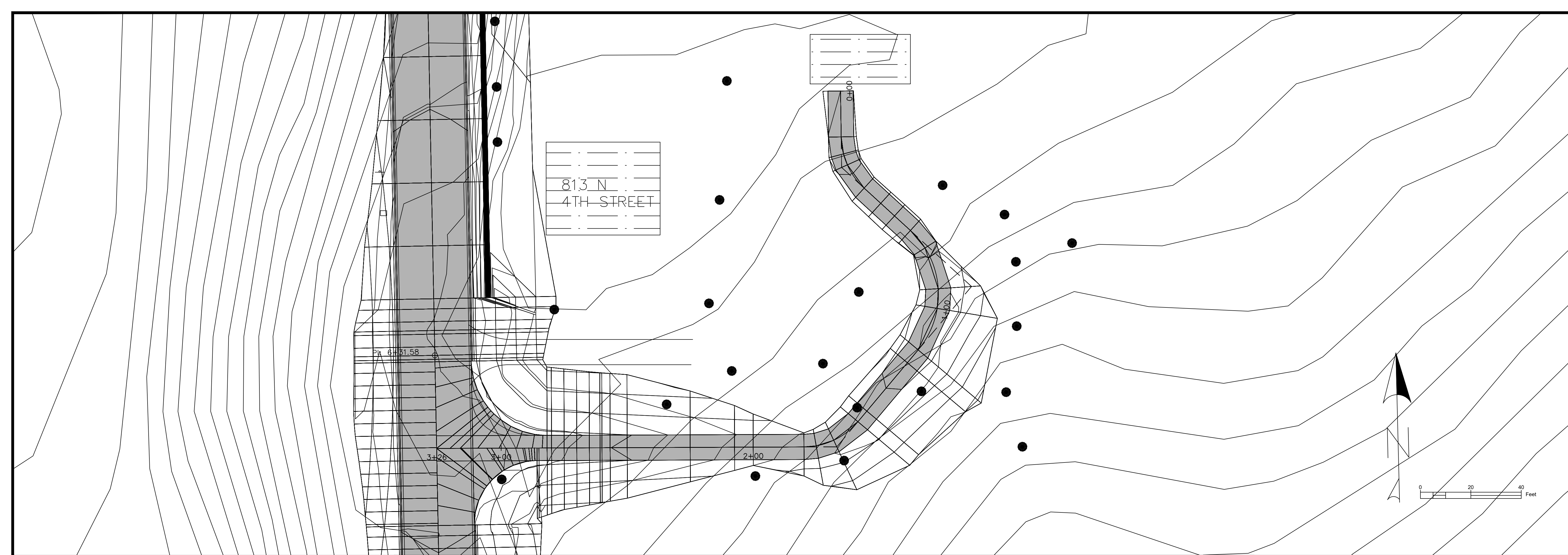
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 FAX: 319.335.5660  
 EMAIL: civil-hawks@iowas.edu

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**TRUCK REROUTING AND  
PAVEMENT REPLACEMENT**

SHEET NAME  
 PLAN AND PROFILE  
 BAKER AVE

SHEET NO.  
**E.06B**



813 N 4TH STREET PROFILE

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	NAS
REVISION:	

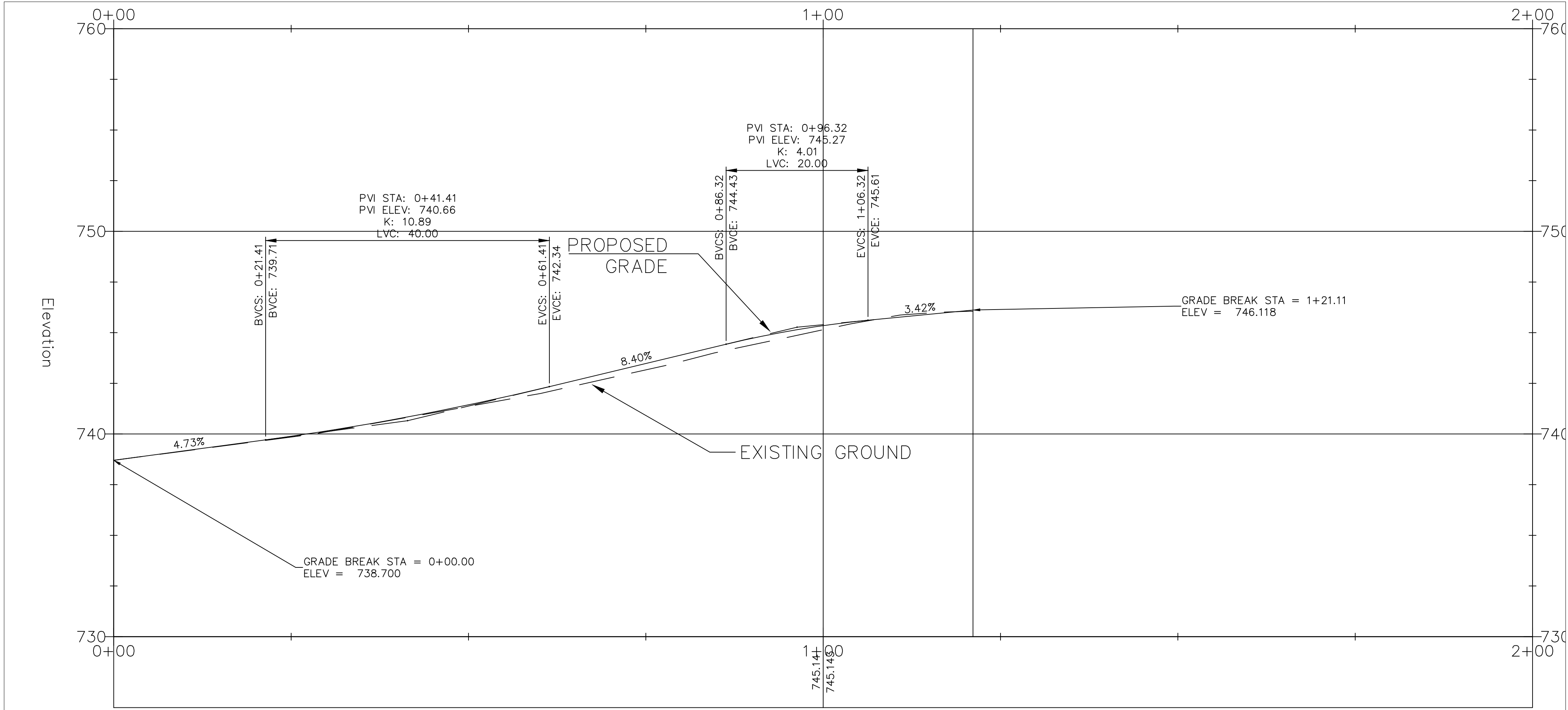
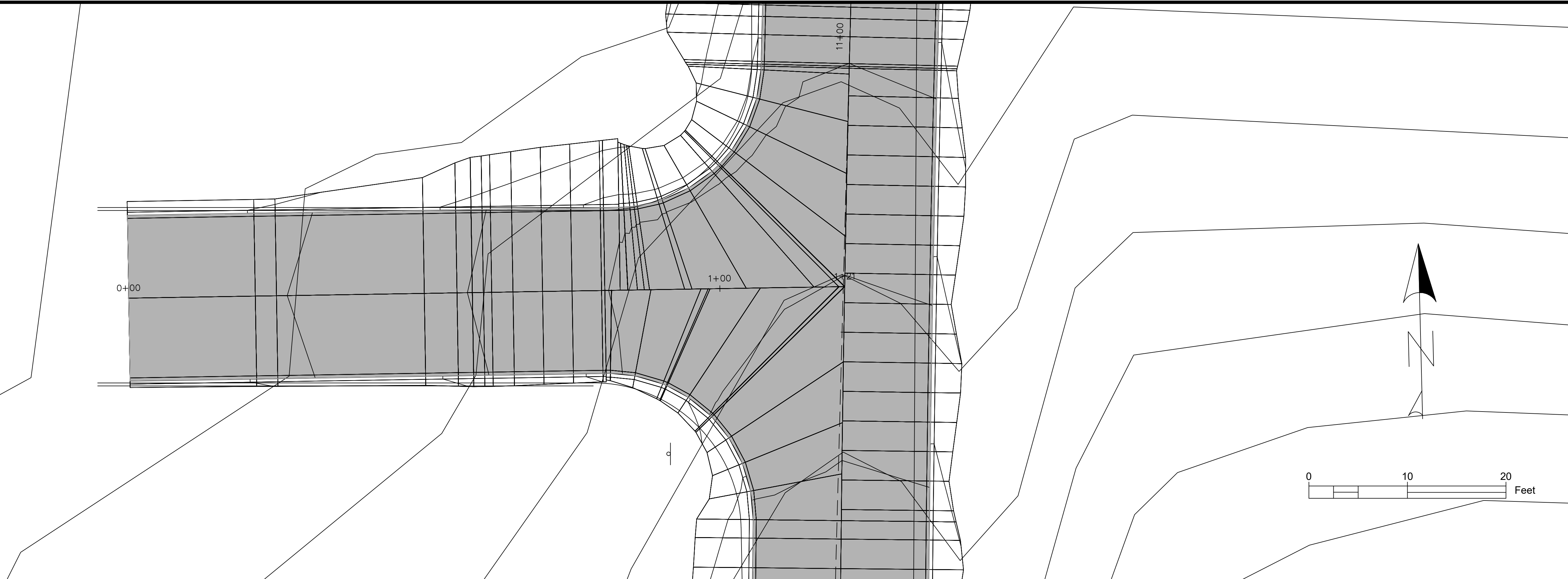
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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 PLAN AND PROFILE  
 813 N 4TH ST

SHEET NO.  
**E.07B**



HOOVER AVENUE PROFILE

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	NAS
REVISION:	

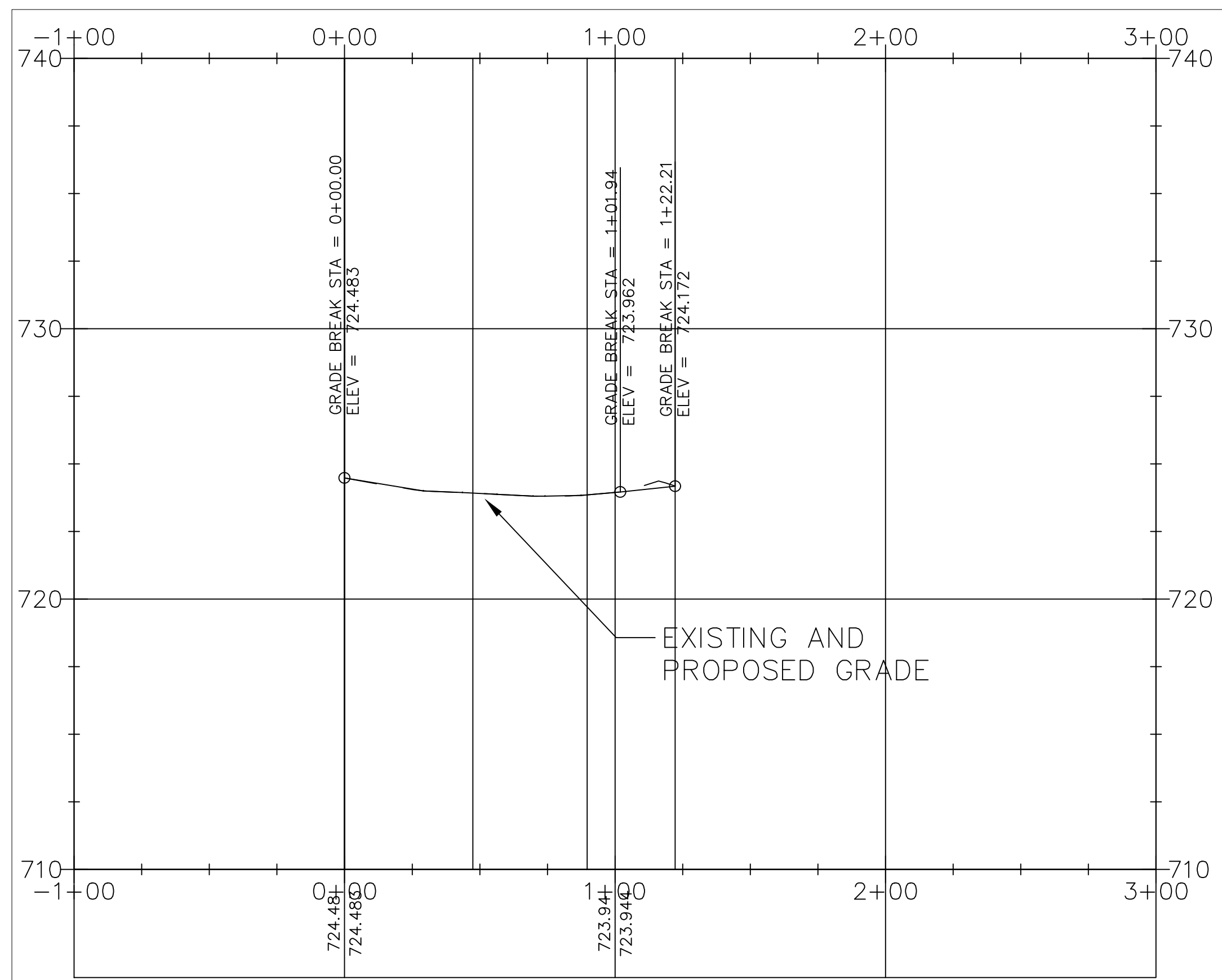
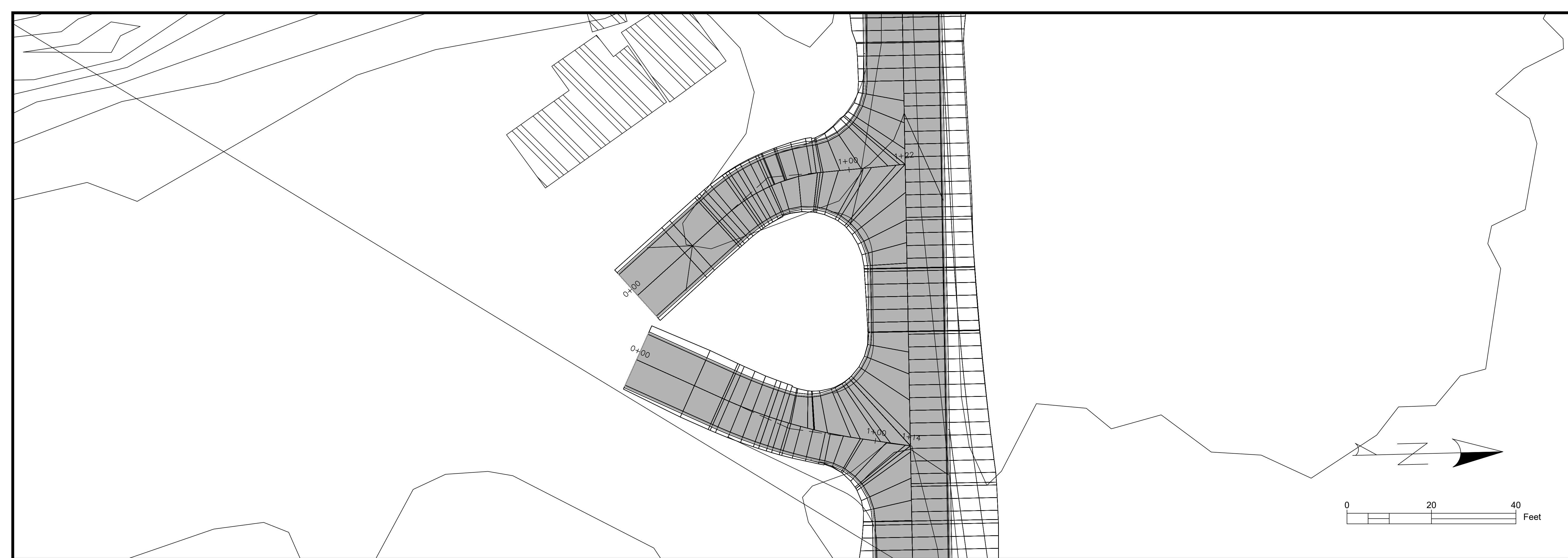
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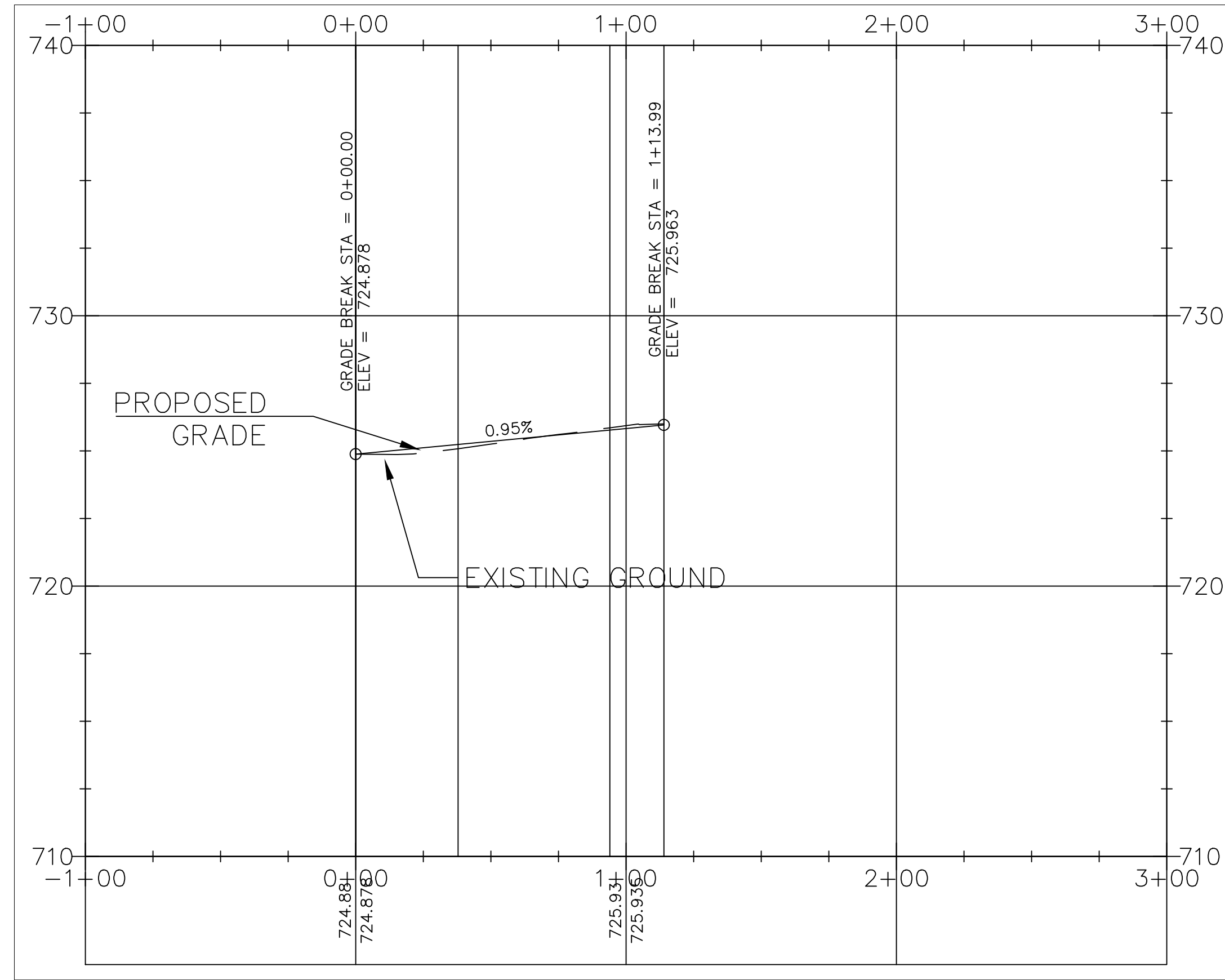
**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 PLAN AND PROFILE  
 HOOVER AVE

SHEET NO.  
**E.08B**



HOOVER AVENUE — WEST PROFILE



HOOVER AVENUE — EAST PROFILE

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	NAS
REVISION:	

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**TRUCK REROUTING AND  
 PAVEMENT REPLACEMENT**

SHEET NAME  
 PLAN AND PROFILE  
 HOOVER AVE

SHEET NO.  
**E.09B**

PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: NAS  
 REVISION:

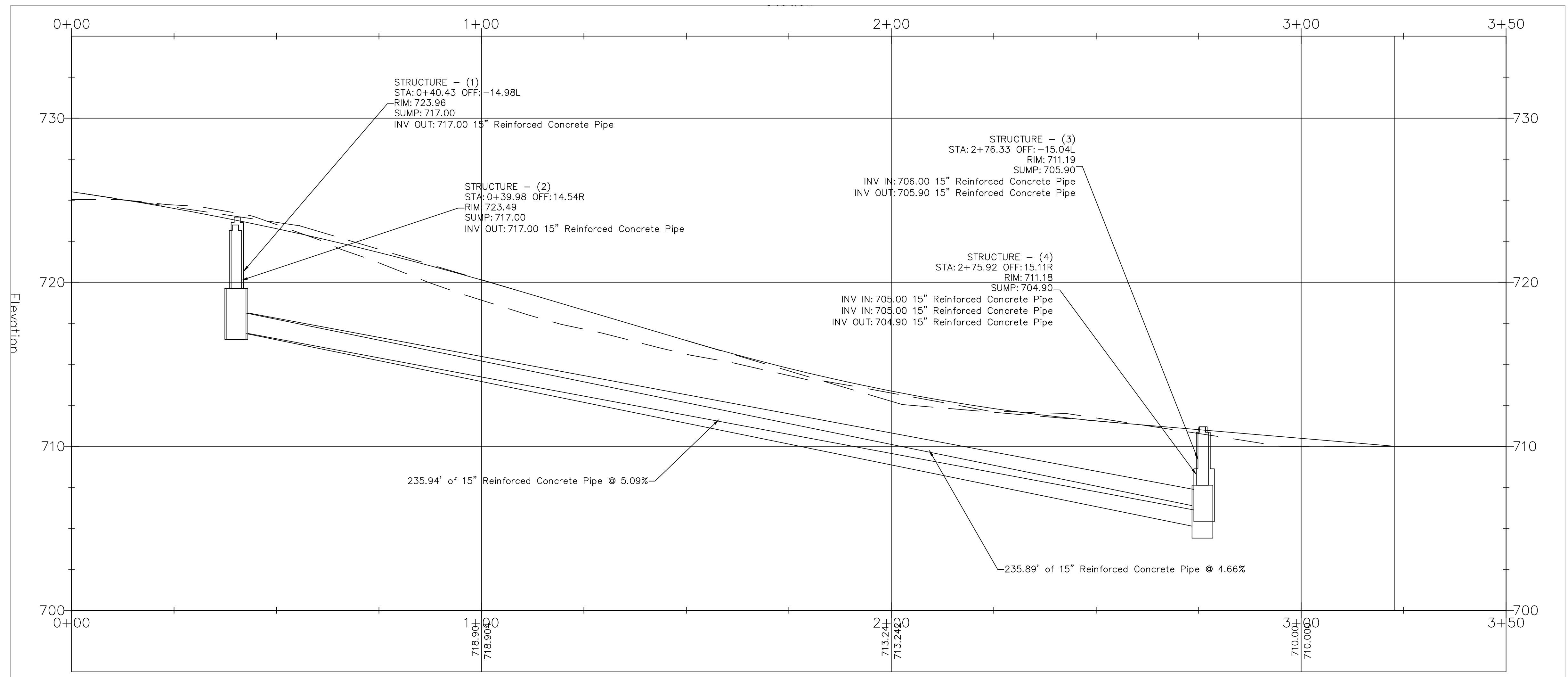
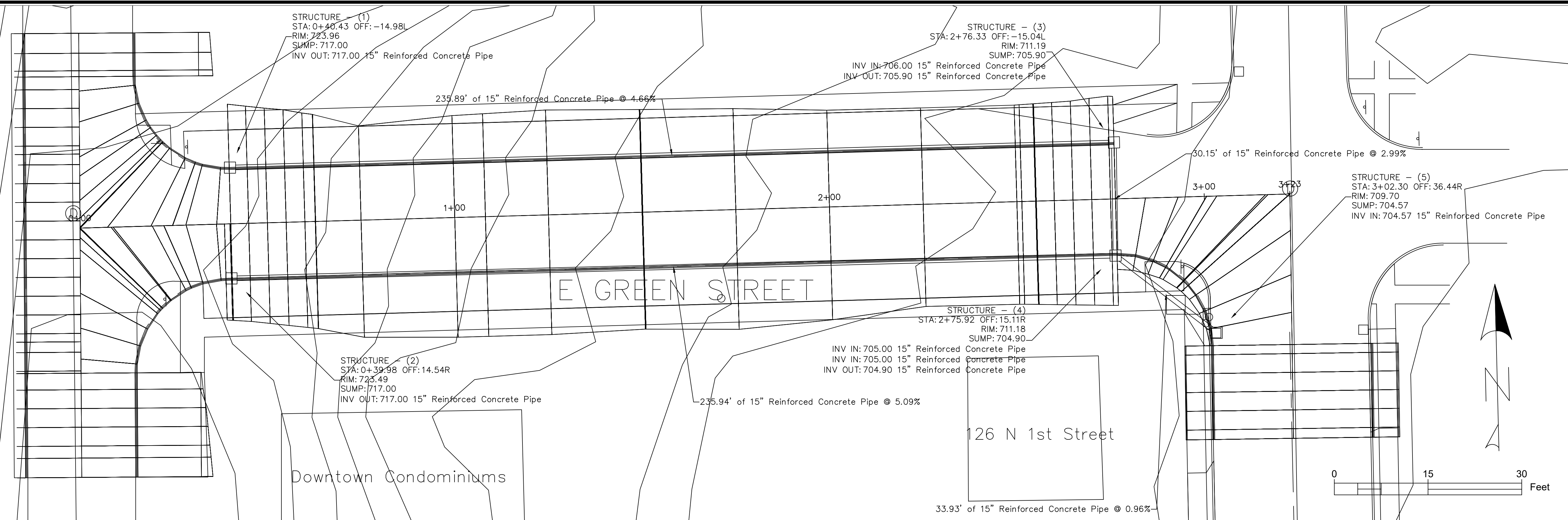
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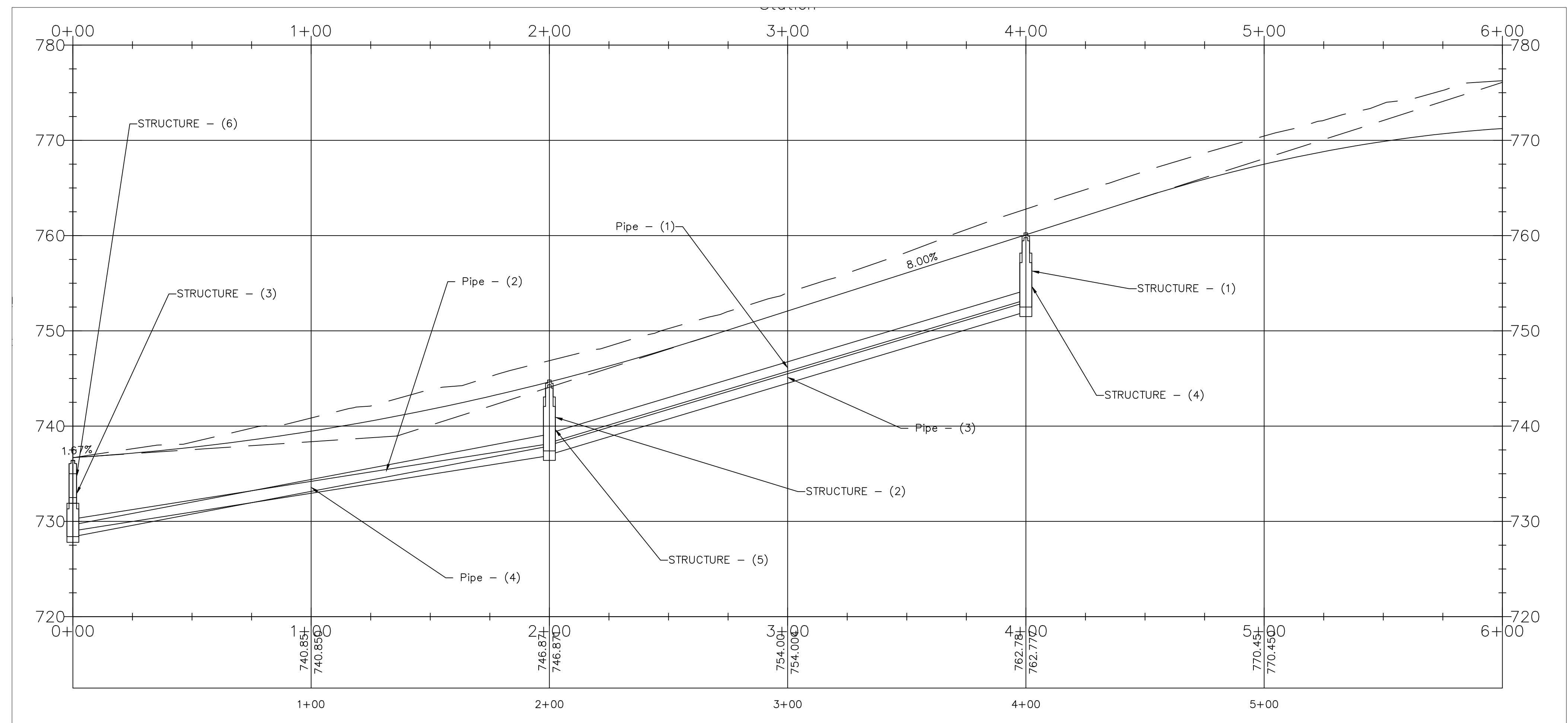
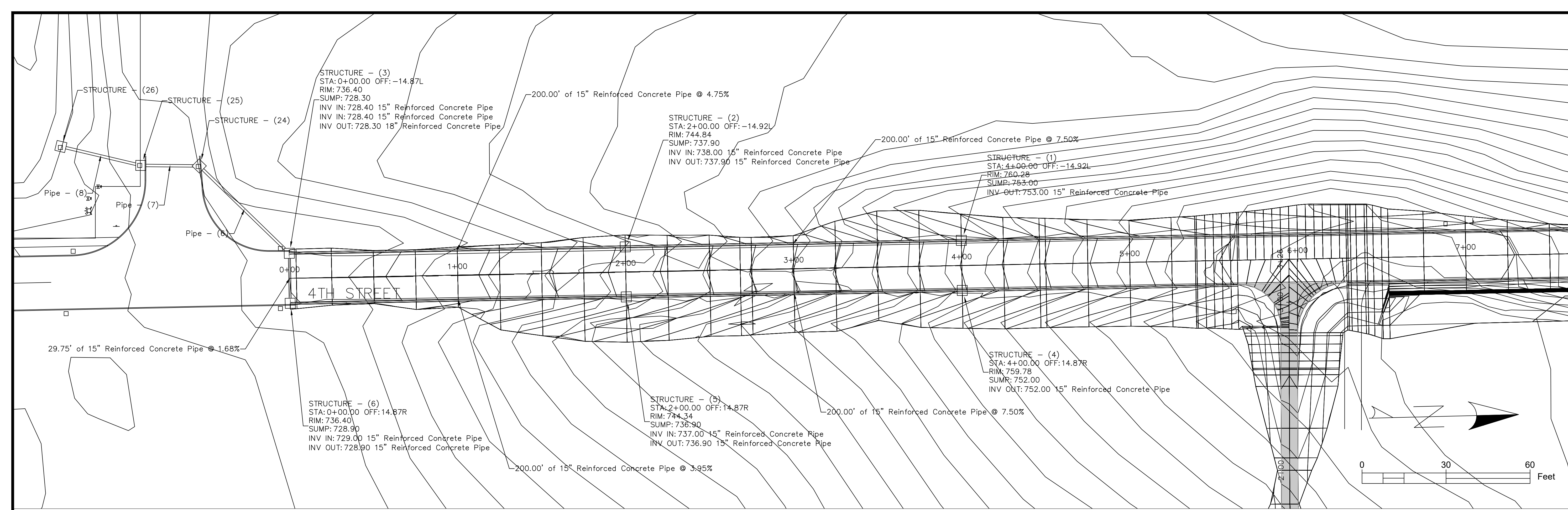
**TRUCK REROUTING AND  
 PAVEMENT REPLACEMENT**

SHEET NAME  
 STORM P&P  
 GREEN STREET

SHEET NO.  
**M.01A**



GREEN STREET STORM PROFILE



4TH STREET STORM PROFILE

PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: NAS  
 REVISION:

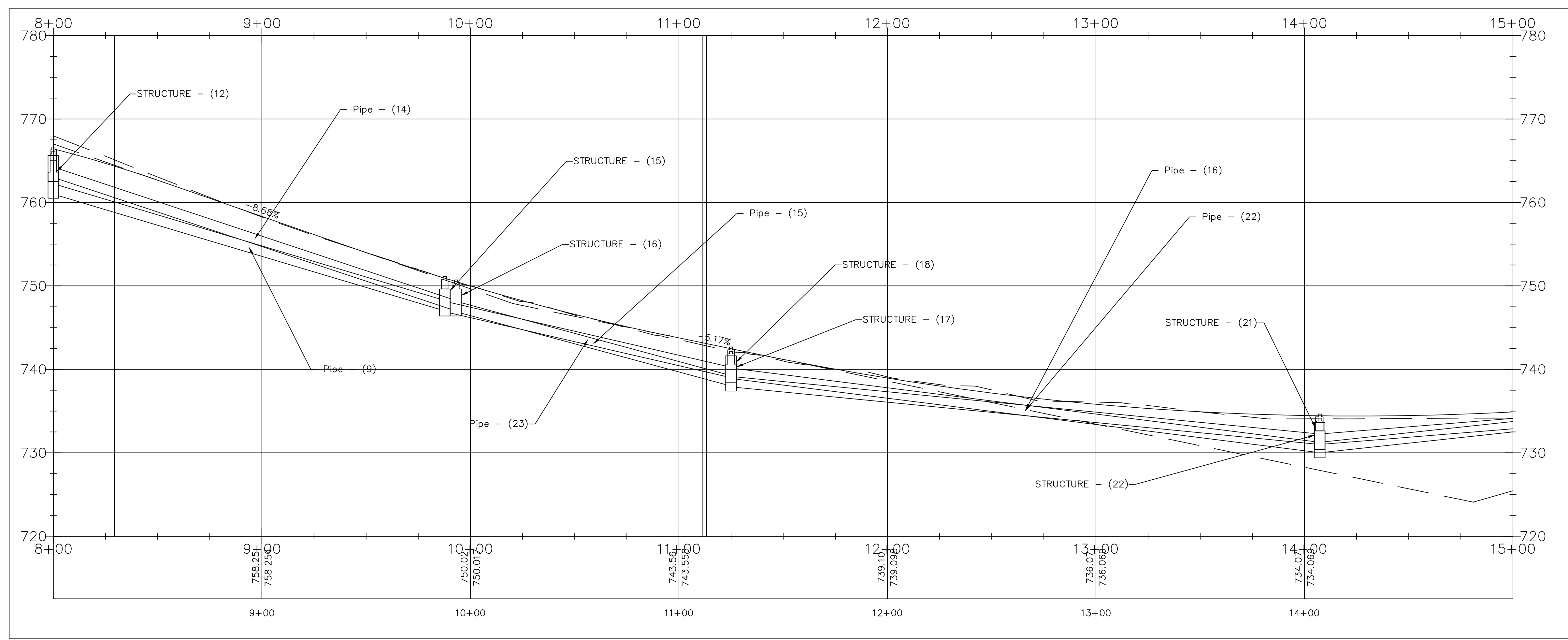
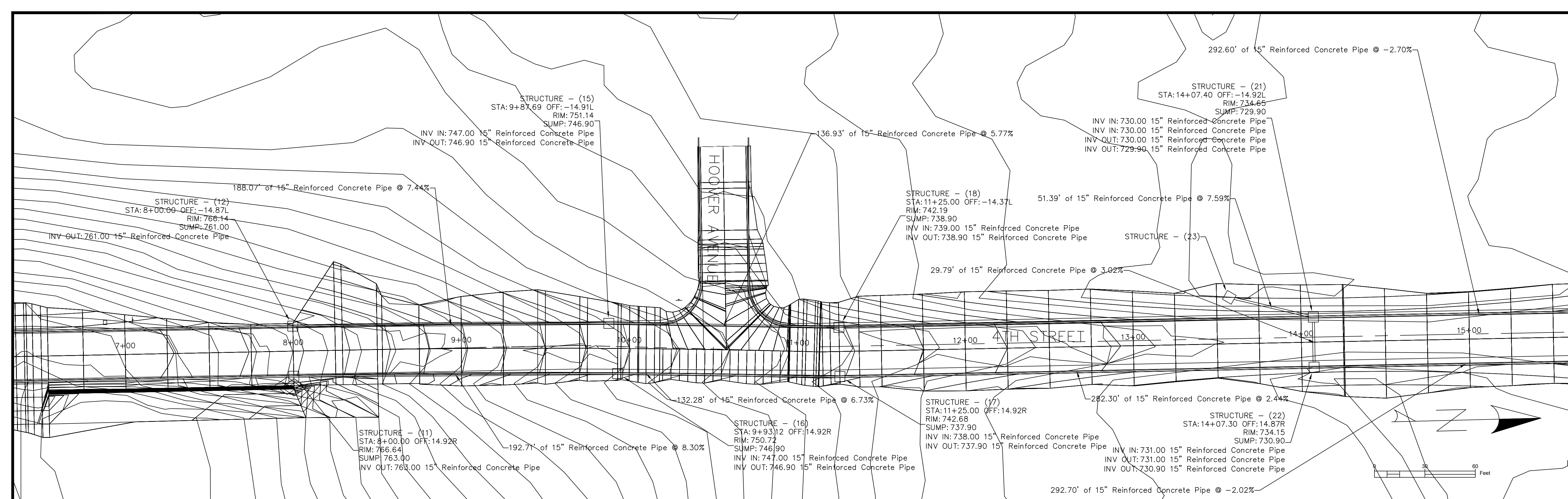
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**TRUCK REROUTING AND  
 PAVEMENT REPLACEMENT**

SHEET NAME  
 STORM P&P  
 4TH STREET

SHEET NO.  
**M.01B**



4TH STREET STORM PROFILE

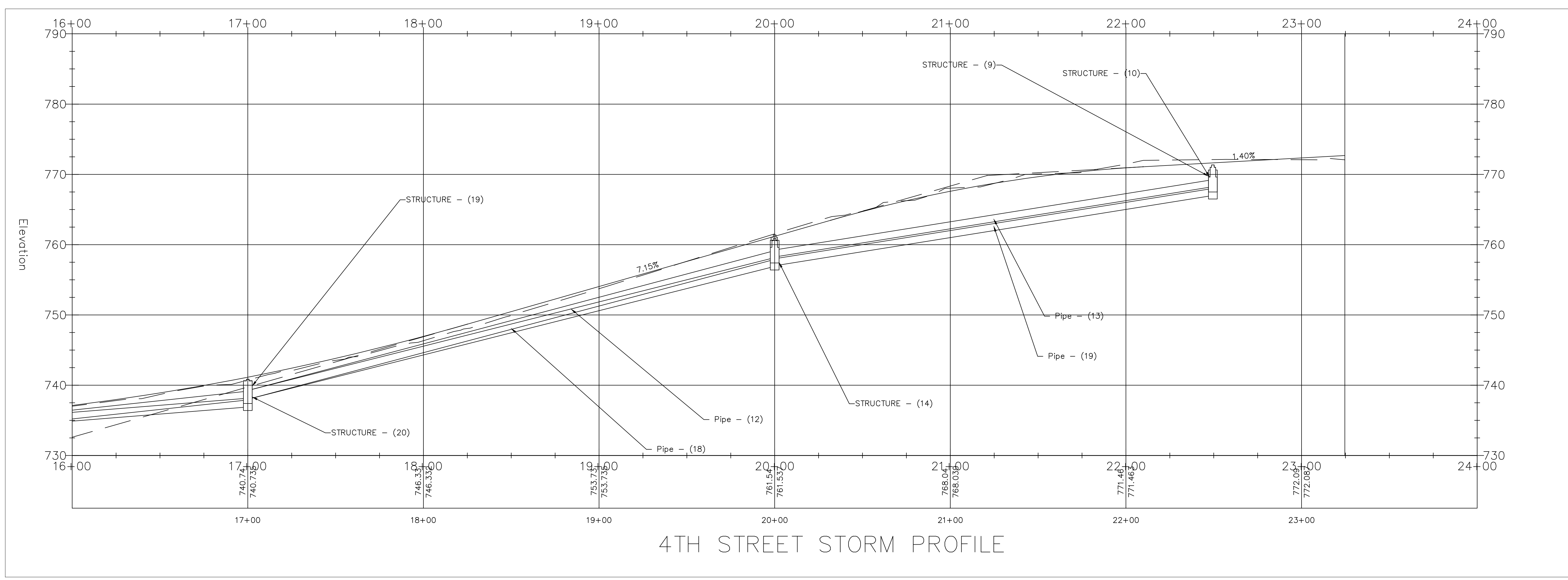
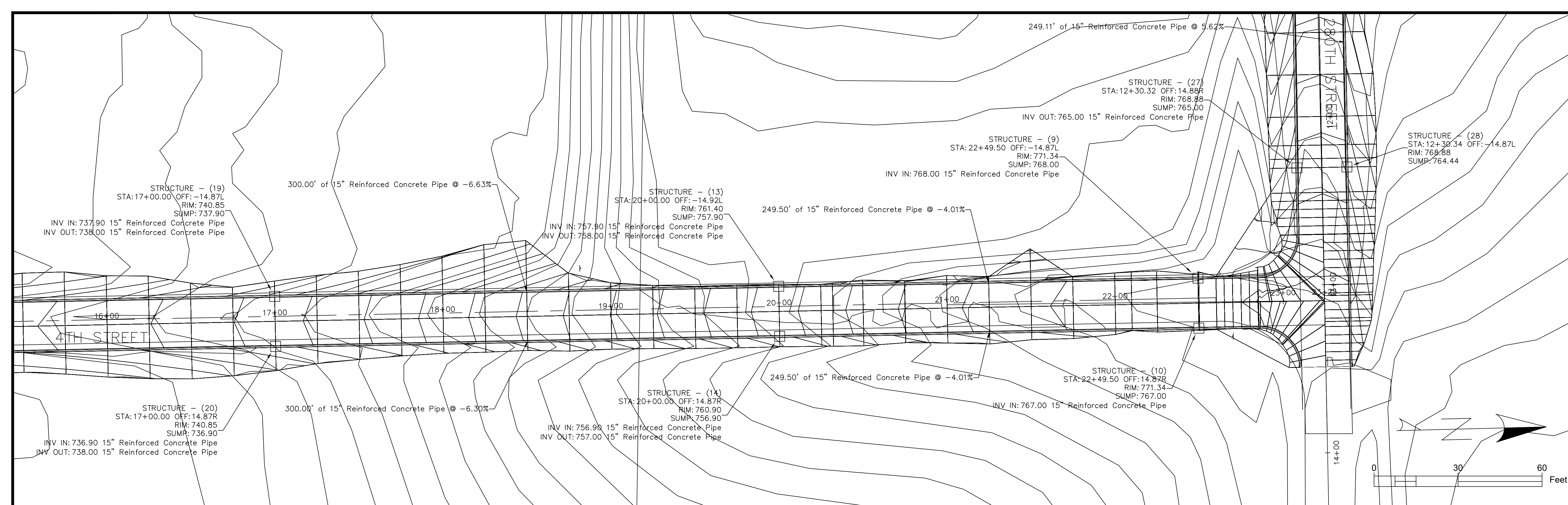
PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: NAS  
 REVISION:  
 THE UNIVERSITY OF IOWA  
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TRUCK REROUTING AND  
 PAVEMENT REPLACEMENT

SHEET NAME  
 STORM P&P  
 4TH STREET

SHEET NO.  
**M.02B**



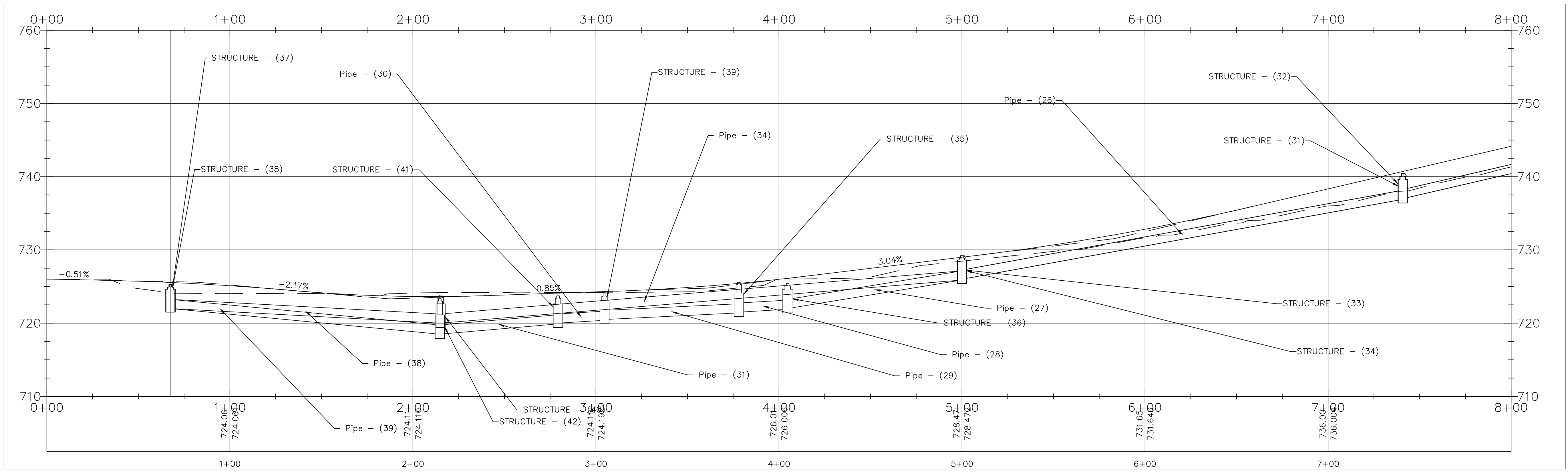
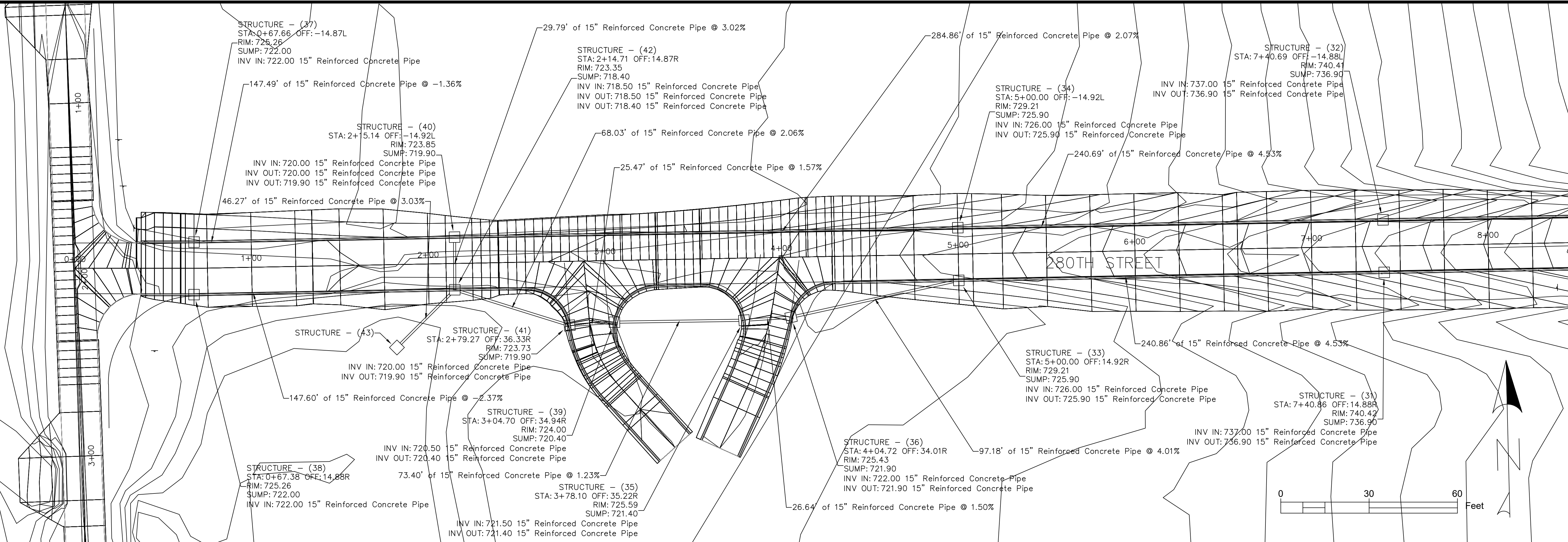
PROJECT: CEE: 4850  
DATE: 05/08/2026  
DRAWN BY: NAS  
REVISION:  
THE UNIVERSITY OF IOWA  
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TRUCK REROUTING AND PAVEMENT REPLACEMENT

SHEET NAME  
STORM P&P  
4TH STREET

SHEET NO.  
**M.03B**



280TH STREET STORM PROFILE

PROJECT: CEE: 4850  
DATE: 05/08/2026  
DRAWN BY: NAS  
REVISION:

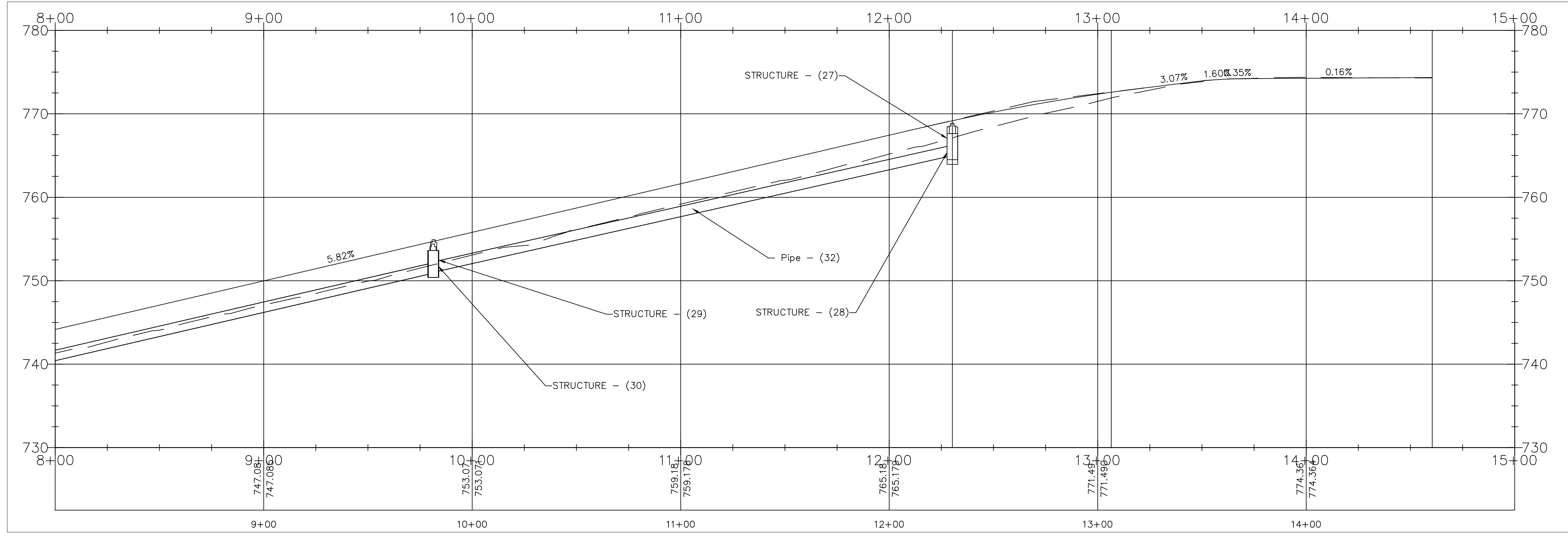
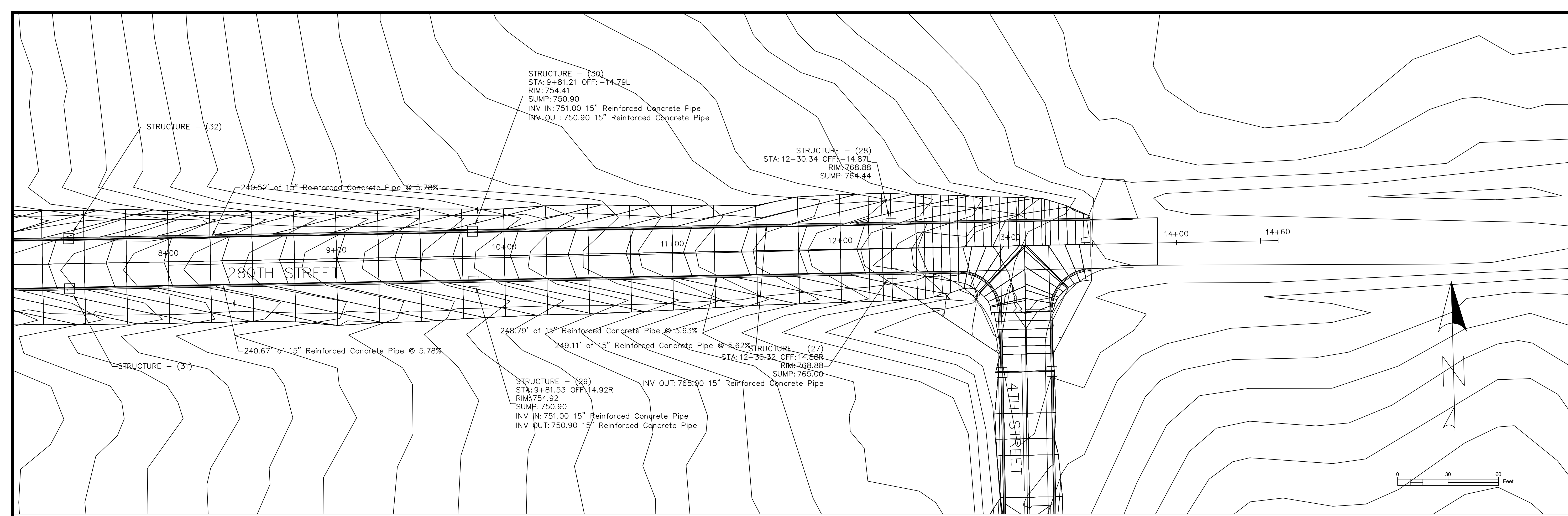
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FAX: 319.335.5660  
EMAIL: civil-hawks@iowa.edu

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**TRUCK REROUTING AND  
AND ROAD EXTENSION**

SHEET NAME  
STORM P&P  
280TH STREET

SHEET NO.  
**M.04B**



280TH STREET STORM PROFILE

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	NAS
REVISION:	

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**TRUCK REROUTING AND  
 ROAD EXTENSION**

SHEET NAME  
 STORM P&P  
 280TH STREET

SHEET NO.  
**M.05B**

GREEN STREET

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.00	73.19	0.00	67.77	0.00	67.77	0.00
1+50.00	51.30	0.00	115.26	0.00	183.03	0.00
2+00.00	13.68	0.88	60.16	0.82	243.19	0.82
2+50.00	6.40	9.01	18.59	9.16	261.78	9.97
3+00.00	0.00	0.00	5.93	8.34	267.71	18.31
3+22.86	0.00	0.00	0.00	0.00	267.71	18.31

DOWNEY STREET

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	10.64	2.97	0.00	0.00	0.00	0.00
0+50.00	0.00	0.00	9.85	2.75	9.85	2.75
1+00.00	0.00	0.00	0.00	0.00	9.85	2.75
1+18.37	2.44	7.47	0.83	2.54	10.68	5.29

7" PAVEMENT

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	16.92	15.66	15.66
1+50.00	16.92	31.33	46.99
2+00.00	16.92	31.33	78.32
2+50.00	16.92	31.33	109.65
3+00.00	0.00	15.66	125.31
3+22.86	0.00	0.00	125.31

6" GRANULAR SUBBASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	14.50	13.43	13.43
1+50.00	14.50	26.85	40.28
2+00.00	14.50	26.85	67.13
2+50.00	14.50	26.85	93.98
3+00.00	0.00	13.43	107.41
3+22.86	0.00	0.00	107.41

7" PAVEMENT

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	16.77	0.00	0.00
0+50.00	0.00	15.53	15.53
1+00.00	0.00	0.00	15.53
1+18.37	16.77	5.70	21.23

6" GRANULAR SUBBASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	14.38	0.00	0.00
0+50.00	0.00	13.31	13.31
1+00.00	0.00	0.00	13.31
1+18.37	14.38	4.89	18.20

FIRST STREET

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.00	13.70	0.00	12.69	0.00	12.69	0.00
1+50.00	0.00	0.00	12.69	0.00	25.38	0.00
1+54.48	0.00	0.00	0.00	0.00	25.38	0.00

7" PAVEMENT

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	20.67	19.14	19.14
1+50.00	0.00	19.14	38.28
1+54.48	0.00	0.00	38.28

6" GRANULAR SUBBASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	17.72	16.41	16.41
1+50.00	0.00	16.41	32.81
1+54.48	0.00	0.00	32.81

TOTAL CUT: 91.59 CY

TOTAL FILL: 339.19 CY

7" PAVEMENT: 303 CY

6" GRANULAR SUBBASE: 259.5 CY

PROJECT: CEE: 4850  
 DATE : 05/08/2026  
 DRAWN BY: APH  
 REVISION:

**THE UNIVERSITY OF IOWA**  
**CIVIL AND ENVIRONMENTAL ENGINEERING**  
 4105 SEAMANS CENTER FOR THE  
 ENGINEERING ARTS AND SCIENCES  
 103 S CAPITOL ST  
 IOWA CITY, IOWA 52242  
 PHONE: 319.335.5647  
 FAX: 319.335.5660  
 EMAIL: civil-hawks@iowa.edu

EDUCATIONAL - NOT  
 FOR CONSTRUCTION

**TRUCK REROUTING AND**

**PAVEMENT REPLACEMENT**

SHEET NAME

EARTHWORK  
 TABULATION

SHEET NO.

**T.01A**

4TH STREET

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	1.74	5.56	0.00	0.00	0.00	0.00
0+50.00	0.01	17.86	1.62	21.69	1.62	21.69
1+00.00	0.00	43.27	0.01	56.60	1.63	78.29
1+50.00	0.00	76.05	0.00	110.48	1.63	188.77
2+00.00	0.00	111.74	0.00	173.88	1.63	362.65
2+50.00	0.00	105.70	0.00	201.33	1.63	563.98
3+00.00	0.00	91.69	0.00	182.77	1.63	746.75
3+50.00	0.00	105.36	0.00	182.45	1.63	929.20
4+00.00	0.00	130.32	0.00	218.22	1.63	1147.41
4+50.00	0.00	127.71	0.00	238.92	1.63	1386.33
5+00.00	0.00	136.25	0.00	244.41	1.63	1630.74
5+50.00	0.00	0.00	0.00	126.16	1.63	1756.89
6+00.00	0.00	0.00	0.00	0.00	1.63	1756.89
6+50.00	0.00	0.00	0.00	0.00	1.63	1756.89
7+00.00	0.00	203.76	0.00	188.66	1.63	1945.56
7+50.00	0.00	114.99	0.00	295.13	1.63	2240.69
8+00.00	0.05	46.50	0.05	149.52	1.67	2390.21
8+50.00	11.20	7.85	10.42	50.32	12.09	2440.53
9+00.00	18.77	0.00	27.75	7.27	39.85	2447.80
9+50.00	24.06	0.17	39.66	0.15	79.50	2447.95

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
10+00.00	0.00	0.00	22.28	0.15	101.78	2448.11
10+50.00	0.00	0.00	0.00	0.00	101.78	2448.11
11+00.00	0.00	0.00	0.00	0.00	101.78	2448.11
11+50.00	26.94	0.38	24.78	0.35	126.56	2448.45
12+00.00	25.17	4.91	48.24	4.90	174.81	2453.35
12+50.00	29.27	3.33	50.40	7.63	225.21	2460.98
13+00.00	30.42	5.24	55.26	7.94	280.47	2468.92
13+50.00	39.78	0.07	64.99	4.91	345.46	2473.83
14+00.00	51.31	0.00	84.34	0.06	429.81	2473.89
14+50.00	70.20	0.00	112.51	0.00	542.32	2473.89
15+00.00	57.87	0.00	118.58	0.00	660.90	2473.89
15+50.00	68.94	0.00	117.42	0.00	778.32	2473.89
16+00.00	51.89	0.09	111.88	0.08	890.20	2473.98
16+50.00	42.24	0.00	87.15	0.08	977.36	2474.06
17+00.00	28.69	0.00	65.67	0.00	1043.03	2474.06
17+50.00	35.74	0.00	59.66	0.00	1102.68	2474.06
18+00.00	43.32	0.00	73.21	0.00	1175.89	2474.06
18+50.00	54.24	0.00	90.34	0.00	1266.23	2474.06
19+00.00	19.66	0.00	68.43	0.00	1334.66	2474.06
19+50.00	11.48	2.25	28.83	2.09	1363.49	2476.15

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
20+00.00	7.00	6.96	17.11	8.53	1380.59	2484.67
20+50.00	9.45	6.18	15.23	12.16	1395.82	2496.83
21+00.00	5.75	10.07	14.07	15.04	1409.90	2511.87
21+50.00	10.14	10.02	14.71	18.60	1424.60	2530.47
22+00.00	2.05	14.68	11.29	22.87	1435.89	2553.35
22+50.00	0.41	16.95	2.28	29.29	1438.18	2582.63
23+00.00	0.00	0.00	0.38	15.69	1438.56	2598.32
23+24.61	0.00	0.00	0.00	0.00	1438.56	2598.32

6" MODIFIED SUBBASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	14.38	0.00	0.00
0+50.00	14.38	26.62	26.62
1+00.00	14.38	26.62	53.24
1+50.00	14.38	26.62	79.86
2+00.00	14.38	26.62	106.48
2+50.00	14.38	26.62	133.10
3+00.00	14.38	26.62	159.72
3+50.00	14.38	26.62	186.34
4+00.00	14.38	26.62	212.96
4+50.00	14.38	26.62	239.58
5+00.00	14.38	26.62	266.20
5+50.00	0.00	13.31	279.51
6+00.00	0.00	0.00	279.51
6+50.00	0.00	0.00	279.51
7+00.00	14.38	13.31	292.82
7+50.00	14.38	26.62	319.44
8+00.00	14.38	26.62	346.06
8+50.00	14.38	26.62	372.69
9+00.00	14.38	26.62	399.31
9+50.00	14.38	26.62	425.93

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	0.00	13.31	439.24
10+50.00	0.00	0.00	439.24
11+00.00	0.00	0.00	439.24
11+50.00	14.38	13.31	452.55
12+00.00	14.38	26.62	479.17
12+50.00	14.38	26.62	505.79
13+00.00	14.38	26.62	532.41
13+50.00	14.38	26.62	559.03
14+00.00	14.38	26.62	585.65
14+50.00	14.38	26.62	612.27
15+00.00	14.38	26.62	638.89
15+50.00	14.38	26.62	665.51
16+00.00	14.38	26.62	692.13
16+50.00	14.38	26.62	718.75
17+00.00	14.38	26.62	745.37
17+50.00	14.38	26.62	771.99
18+00.00	14.38	26.62	798.61
18+50.00	14.38	26.62	825.23
19+00.00	14.38	26.62	851.85
19+50.00	14.38	26.62	878.47

Material Table			
Station	Area	Volume	Cumulative Volume
20+00.00	14.38	26.62	905.09
20+50.00	14.38	26.62	931.71
21+00.00	14.38	26.62	958.33
21+50.00	14.38	26.62	984.95
22+00.00	14.38	26.62	1011.57
22+50.00	14.38	26.62	1038.19
23+00.00	0.00	13.31	1051.50
23+24.61	0.00	0.00	1051.50

18" IMPORTED FILL

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	43.12	0.00	0.00
0+50.00	43.12	79.86	79.86
1+00.00	43.12	79.86	159.72
1+50.00	43.12	79.86	239.58
2+00.00	43.12	79.86	319.44
2+50.00	43.12	79.86	399.31
3+00.00	43.12	79.86	479.17
3+50.00	43.12	79.86	559.03
4+00.00	43.12	79.86	638.89
4+50.00	43.12	79.86	718.75
5+00.00	43.12	79.86	798.61
5+50.00	0.00	39.93	838.54
6+00.00	0.00	0.00	838.54
6+50.00	0.00	0.00	838.54
7+00.00	43.12	39.93	878.47
7+50.00	43.12	79.86	958.33
8+00.00	43.12	79.86	1038.19
8+50.00	43.12	79.86	1118.06
9+00.00	43.12	79.86	1197.92
9+50.00	43.12	79.86	1277.78

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	0.00	39.93	1317.71
10+50.00	0.00	0.00	1317.71
11+00.00	0.00	0.00	1317.71
11+50.00	43.12	39.93	1357.64
12+00.00	43.12	79.86	1437.50
12+50.00	43.12	79.86	1517.36
13+00.00	43.12	79.86	1597.22
13+50.00	43.12	79.86	1677.08
14+00.00	43.12	79.86	1756.94
14+50.00	43.12	79.86	1836.81
15+00.00	43.12	79.86	1916.67
15+50.00	43.12	79.86	1996.53
16+00.00	43.12	79.86	2076.39
16+50.00	43.12	79.86	2156.25
17+00.00	43.12	79.86	2236.11
17+50.00	43.12	79.86	2315.97
18+00.00	43.12	79.86	2395.83
18+50.00	43.12	79.86	2475.69
19+00.00	43.12	79.86	2555.56
19+50.00	43.12	79.86	2635.42

Material Table			
Station	Area	Volume	Cumulative Volume
20+00.00	43.12	79.86	2715.28
20+50.00	43.12	79.86	2795.14
21+00.00	43.12	79.86	2875.00
21+50.00	43.12	79.86	2954.86
22+00.00	43.12	79.86	3034.72
22+50.00	43.12	79.86	3114.58
23+00.00	0.00	39.93	3154.51
23+24.61	0.00	0.00	3154.51

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	16.77	0.00	0.00
0+50.00	16.77	31.06	31.06
1+00.00	16.77	31.06	62.11
1+50.00	16.77	31.06	93.17
2+00.00	16.77	31.06	124.23
2+50.00	16.77	31.06	155.29
3+00.00	16.77	31.06	186.34
3+50.00	16.77	31.06	217.40
4+00.00	16.77	31.06	248.46
4+50.00	16.77	31.06	279.51
5+00.00	16.77	31.06	310.57
5+50.00	0.00	15.53	326.10
6+00.00	0.00	0.00	326.10
6+50.00	0.00	0.00	326.10
7+00.00	16.77	15.53	341.63
7+50.00	16.77	31.06	372.69
8+00.00	16.77	31.06	403.74
8+50.00	16.77	31.06	434.80
9+00.00	16.77	31.06	465.86
9+50.00	16.77	31.06	496.91

7" PAVEMENT

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	0.00	15.53	512.44
10+50.00	0.00	0.00	512.44
11+00.00	0.00	0.00	512.44
11+50.00	16.77	15.53	527.97
12+00.00	16.77	31.06	559.03
12+50.00	16.77	31.06	590.08
13+00.00	16.77	31.06	621.14
13+50.00	16.77	31.06	652.20
14+00.00	16.77	31.06	683.26
14+50.00	16.77	31.06	714.31
15+00.00	16.77	31.06	745.37
15+50.00	16.77	31.06	776.43
16+00.00	16.77	31.06	807.48
16+50.00	16.77	31.06	838.54
17+00.00	16.77	31.06	869.60
17+50.00	16.77	31.06	900.66
18+00.00	16.77	31.06	931.71
18+50.00	16.77	31.06	962.77
19+00.00	16.77	31.06	993.83
19+50.00	16.77	31.06	1024.88

Material Table			
Station	Area	Volume	Cumulative Volume
20+00.00	16.77	31.06	1055.94
20+50.00	16.77	31.06	1087.00
21+00.00	16.77	31.06	1118.06
21+50.00	16.77	31.06	1149.11
22+00.00	16.77	31.06	1180.17
22+50.00	16.77	31.06	1211.23
23+00.00	0.00	15.53	1226.76
23+24.61	0.00	0.00	1226.76

PROJECT: CEE: 4850  
 DATE: .5/08/2026  
 DRAWN BY:

# 280th STREET

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	1.74	5.56	0.00	0.00	0.00	0.00
0+50.00	0.01	17.86	1.62	21.69	1.62	21.69
1+00.00	0.00	43.27	0.01	56.60	1.63	78.29
1+50.00	0.00	76.05	0.00	110.48	1.63	188.77
2+00.00	0.00	111.74	0.00	173.88	1.63	362.65
2+50.00	0.00	105.70	0.00	201.33	1.63	563.98
3+00.00	0.00	91.69	0.00	182.77	1.63	746.75
3+50.00	0.00	105.36	0.00	182.45	1.63	929.20
4+00.00	0.00	130.32	0.00	218.22	1.63	1147.41
4+50.00	0.00	127.71	0.00	238.92	1.63	1386.33
5+00.00	0.00	136.25	0.00	244.41	1.63	1630.74
5+50.00	0.00	0.00	0.00	126.16	1.63	1756.89
6+00.00	0.00	0.00	0.00	0.00	1.63	1756.89
6+50.00	0.00	0.00	0.00	0.00	1.63	1756.89
7+00.00	0.00	203.76	0.00	188.66	1.63	1945.56
7+50.00	0.00	114.99	0.00	295.13	1.63	2240.69
8+00.00	0.05	46.50	0.05	149.52	1.67	2390.21
8+50.00	11.20	7.85	10.42	50.32	12.09	2440.53
9+00.00	18.77	0.00	27.75	7.27	39.85	2447.80
9+50.00	24.06	0.17	39.66	0.15	79.50	2447.95

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
10+00.00	0.00	0.00	22.28	0.15	101.78	2448.11
10+50.00	0.00	0.00	0.00	0.00	101.78	2448.11
11+00.00	0.00	0.00	0.00	0.00	101.78	2448.11
11+50.00	26.94	0.38	24.78	0.35	126.56	2448.45
12+00.00	25.17	4.91	48.24	4.90	174.81	2453.35
12+50.00	29.27	3.33	50.40	7.63	225.21	2460.98
13+00.00	30.42	5.24	55.26	7.94	280.47	2468.92
13+50.00	39.78	0.07	64.99	4.91	345.46	2473.83
14+00.00	51.31	0.00	84.34	0.06	429.81	2473.89
14+50.00	70.20	0.00	112.51	0.00	542.32	2473.89
15+00.00	57.87	0.00	118.58	0.00	660.90	2473.89
15+50.00	68.94	0.00	117.42	0.00	778.32	2473.89
16+00.00	51.89	0.09	111.88	0.08	890.20	2473.98
16+50.00	42.24	0.00	87.15	0.08	977.36	2474.06
17+00.00	28.69	0.00	65.67	0.00	1043.03	2474.06
17+50.00	35.74	0.00	59.66	0.00	1102.68	2474.06
18+00.00	43.32	0.00	73.21	0.00	1175.89	2474.06
18+50.00	54.24	0.00	90.34	0.00	1266.23	2474.06
19+00.00	19.66	0.00	68.43	0.00	1334.66	2474.06
19+50.00	11.48	2.25	28.83	2.09	1363.49	2476.15

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
20+00.00	7.00	6.96	17.11	8.53	1380.59	2484.67
20+50.00	9.45	6.18	15.23	12.16	1395.82	2496.83
21+00.00	5.75	10.07	14.07	15.04	1409.90	2511.87
21+50.00	10.14	10.02	14.71	18.60	1424.60	2530.47
22+00.00	2.05	14.68	11.29	22.87	1435.89	2553.35
22+50.00	0.41	16.95	2.28	29.29	1438.18	2582.63
23+00.00	0.00	0.00	0.38	15.69	1438.56	2598.32
23+24.61	0.00	0.00	0.00	0.00	1438.56	2598.32

7'' PAVEMENT

6'' MODIFIED SUBBASE

18'' IMPORTED FILL

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	16.77	15.53	15.53
1+50.00	16.77	31.06	46.59
2+00.00	16.77	31.06	77.64
2+50.00	0.00	15.53	93.17
3+00.00	0.00	0.00	93.17
3+50.00	0.00	0.00	93.17
4+00.00	0.00	0.00	93.17
4+50.00	0.00	0.00	93.17
5+00.00	16.77	15.53	108.70
5+50.00	16.77	31.06	139.76
6+00.00	16.77	31.06	170.81
6+50.00	16.77	31.06	201.87
7+00.00	16.77	31.06	232.93
7+50.00	16.77	31.06	263.99
8+00.00	16.77	31.06	295.04
8+50.00	16.77	31.06	326.10
9+00.00	16.77	31.06	357.16
9+50.00	16.77	31.06	388.21

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	16.77	31.06	419.27
10+50.00	16.77	31.06	450.33
11+00.00	16.77	31.06	481.39
11+50.00	16.77	31.06	512.44
12+00.00	16.77	31.06	543.50
12+50.00	0.00	15.53	559.03
13+00.00	0.00	0.00	559.03
13+50.00	0.00	0.00	559.03
14+00.00	0.00	0.00	559.03
14+50.00	0.00	0.00	559.03
14+60.47	0.00	0.00	559.03

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	14.38	13.31	13.31
1+50.00	14.38	26.62	39.93
2+00.00	14.38	26.62	66.55
2+50.00	0.00	13.31	79.86
3+00.00	0.00	0.00	79.86
3+50.00	0.00	0.00	79.86
4+00.00	0.00	0.00	79.86
4+50.00	0.00	0.00	79.86
5+00.00	14.38	13.31	93.17
5+50.00	14.38	26.62	119.79
6+00.00	14.38	26.62	146.41
6+50.00	14.38	26.62	173.03
7+00.00	14.38	26.62	199.65
7+50.00	14.38	26.62	226.27
8+00.00	14.38	26.62	252.89
8+50.00	14.38	26.62	279.51
9+00.00	14.38	26.62	306.13
9+50.00	14.38	26.62	332.75

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	14.38	26.62	359.38
10+50.00	14.38	26.62	386.00
11+00.00	14.38	26.62	412.62
11+50.00	14.38	26.62	439.24
12+00.00	14.38	26.62	465.86
12+50.00	0.00	13.31	479.17
13+00.00	0.00	0.00	479.17
13+50.00	0.00	0.00	479.17
14+00.00	0.00	0.00	479.17
14+50.00	0.00	0.00	479.17
14+60.47	0.00	0.00	479.17

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	43.12	39.93	39.93
1+50.00	43.12	79.86	119.79
2+00.00	43.12	79.86	199.65
2+50.00	0.00	39.93	239.58
3+00.00	0.00	0.00	239.58
3+50.00	0.00	0.00	239.58
4+00.00	0.00	0.00	239.58
4+50.00	0.00	0.00	239.58
5+00.00	43.12	39.93	279.51
5+50.00	43.12	79.86	359.38
6+00.00	43.12	79.86	439.24
6+50.00	43.12	79.86	519.10
7+00.00	43.12	79.86	598.96
7+50.00	43.12	79.86	678.82
8+00.00	43.12	79.86	758.68
8+50.00	43.12	79.86	838.54
9+00.00	43.12	79.86	918.40
9+50.00	43.12	79.86	998.26

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	43.12	79.86	1078.12
10+50.00	43.12	79.86	1157.99
11+00.00	43.12	79.86	1237.85
11+50.00	43.12	79.86	1317.71
12+00.00	43.12	79.86	1397.57
12+50.00	0.00	39.93	1437.50
13+00.00	0.00	0.00	1437.50
13+50.00	0.00	0.00	1437.50
14+00.00	0.00	0.00	1437.50
14+50.00	0.00	0.00	1437.50
14+60.47	0.00	0.00	1437.50

PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: APH  
 REVISION:

**THE UNIVERSITY OF IOWA**  
**CIVIL AND ENVIRONMENTAL ENGINEERING**  
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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 EARTHWORK TABULATION

SHEET NO.  
**T.02B**

# HOOVER BLVD (WEST)

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	7.46	3.31	0.00	0.00	0.00	0.00
0+50.00	0.67	3.06	7.37	5.89	7.37	5.89
1+00.00	5.29	2.12	5.90	4.43	13.27	10.32
1+22.21	11.02	15.13	6.71	7.09	19.98	17.41

7" PAVEMENT 6" MODIFIED SUBBASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	12.83	0.00	0.00
0+50.00	0.00	11.88	11.88
1+00.00	0.00	0.00	11.88
1+22.21	0.00	0.00	11.88

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	11.00	0.00	0.00
0+50.00	0.00	10.19	10.19
1+00.00	0.00	0.00	10.19
1+22.21	0.00	0.00	10.19

18" IMPORTED FILL

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	33.00	0.00	0.00
0+50.00	0.00	30.56	30.56
1+00.00	0.00	0.00	30.56
1+22.21	0.00	0.00	30.56

# HOOVER BLVD - 4TH

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.00	0.00	0.00	0.00	0.00	0.00	0.00
1+21.11	0.00	0.00	0.00	0.00	0.00	0.00

7" PAVEMENT 6" MODIFIED SUBBASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	15.75	0.00	0.00
0+50.00	15.75	29.17	29.17
1+00.00	0.00	14.58	43.75
1+21.11	0.00	0.00	43.75

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	13.50	0.00	0.00
0+50.00	13.50	25.00	25.00
1+00.00	0.00	12.50	37.50
1+21.11	0.00	0.00	37.50

18" IMPORTED FILL

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	40.50	0.00	0.00
0+50.00	40.50	75.00	75.00
1+00.00	0.00	37.50	112.50
1+21.11	0.00	0.00	112.50

# HOOVER BLVD (EAST)

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	1.27	6.27	0.00	0.00	0.00	0.00
0+50.00	2.52	1.20	3.48	6.84	3.48	6.84
1+00.00	4.52	8.79	6.61	8.77	10.09	15.61
1+13.99	59.48	0.04	16.57	2.29	26.67	17.89

7" PAVEMENT 6" MODIFIED SUBBASE

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	12.83	0.00	0.00
0+50.00	0.00	11.88	11.88
1+00.00	0.00	0.00	11.88
1+13.99	0.00	0.00	11.88

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	11.00	0.00	0.00
0+50.00	0.00	10.19	10.19
1+00.00	0.00	0.00	10.19
1+13.99	0.00	0.00	10.19

18" IMPORTED FILL

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	33.00	0.00	0.00
0+50.00	0.00	30.56	30.56
1+00.00	0.00	0.00	30.56
1+13.99	0.00	0.00	30.56

PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: APH  
 REVISION:

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TRUCK REROUTING AND

PAVEMENT REPLACEMENT

SHEET NAME

EARTHWORK  
 TABULATION

SHEET NO.

**T.03B**

# BAKER AVE

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	6.81	0.01	0.00	0.00	0.00	0.00
0+50.00	9.32	0.16	14.93	0.16	14.93	0.16
1+00.00	0.00	2.48	8.63	2.44	23.55	2.61
1+50.00	0.00	2.40	0.00	4.51	23.56	7.12
2+00.00	4.57	6.57	4.24	8.30	27.79	15.43
2+50.00	0.01	2.29	4.24	8.20	32.03	23.63
3+00.00	66.83	1.80	61.88	3.79	93.92	27.42
3+50.00	0.00	2.30	61.88	3.79	155.80	31.21
4+00.00	0.00	2.34	0.00	4.30	155.80	35.51
4+10.77	0.00	2.34	0.00	0.93	155.80	36.44

## 7" PAVEMENT

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	12.83	0.00	0.00
0+50.00	12.83	23.77	23.77
1+00.00	12.83	23.77	47.53
1+50.00	0.00	11.88	59.41
2+00.00	0.00	0.00	59.41
2+50.00	0.00	0.00	59.41
3+00.00	12.83	11.88	71.30
3+50.00	12.83	23.77	95.06
4+00.00	12.83	23.77	118.83
4+10.77	12.83	5.12	123.95

## 6" MODIFIED SUBBASE 18" IMPORTED FILL

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	11.00	0.00	0.00
0+50.00	11.00	20.37	20.37
1+00.00	11.00	20.37	40.74
1+50.00	0.00	10.19	50.93
2+00.00	0.00	0.00	50.93
2+50.00	0.00	0.00	50.93
3+00.00	11.00	10.19	61.11
3+50.00	11.00	20.37	81.48
4+00.00	11.00	20.37	101.85
4+10.77	11.00	4.39	106.24

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	33.00	0.00	0.00
0+50.00	33.00	61.11	61.11
1+00.00	33.00	61.11	122.22
1+50.00	0.00	30.56	152.78
2+00.00	0.00	0.00	152.78
2+50.00	0.00	0.00	152.78
3+00.00	33.00	30.56	183.33
3+50.00	33.00	61.11	244.44
4+00.00	33.00	61.11	305.56
4+10.77	33.00	13.16	318.72

TOTAL EARTHWORK FOR 4TH STREET PLAN

TOTAL CUT: 4607 CY

TOTAL FILL: 7505 CY

7" PAVEMENT: 2748 CY

6" MODIFIED SUBBASE: 2345 CY

18" IMPORTED FILL: 7034 CY

# FARM DRIVEWAY

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.00	0.00	0.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00	0.00	0.00	0.00
1+00.00	0.00	0.00	0.00	0.00	0.00	0.00
1+50.00	0.00	0.00	0.00	0.00	0.00	0.00
2+00.00	0.00	0.00	0.00	0.00	0.00	0.00
2+50.00	0.00	0.00	0.00	0.00	0.00	0.00
3+00.00	0.00	442.64	0.00	409.85	0.00	409.85
3+25.61	0.00	502.26	0.00	448.19	0.00	858.04

## 7" PAVEMENT

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	0.00	0.00	0.00
1+50.00	0.00	0.00	0.00
2+00.00	0.00	0.00	0.00
2+50.00	0.00	0.00	0.00
3+00.00	0.00	0.00	0.00
3+25.61	0.00	0.00	0.00

## 6" MODIFIED SUBBASE 18" IMPORTED FILL

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	0.00	0.00	0.00
1+50.00	0.00	0.00	0.00
2+00.00	0.00	0.00	0.00
2+50.00	0.00	0.00	0.00
3+00.00	0.00	0.00	0.00
3+25.61	0.00	0.00	0.00

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	0.00	0.00	0.00
0+50.00	0.00	0.00	0.00
1+00.00	0.00	0.00	0.00
1+50.00	0.00	0.00	0.00
2+00.00	0.00	0.00	0.00
2+50.00	0.00	0.00	0.00
3+00.00	0.00	0.00	0.00
3+25.61	0.00	0.00	0.00

PROJECT: CEE: 4850  
 DATE : 05/08/2026  
 DRAWN BY: APH  
 REVISION:

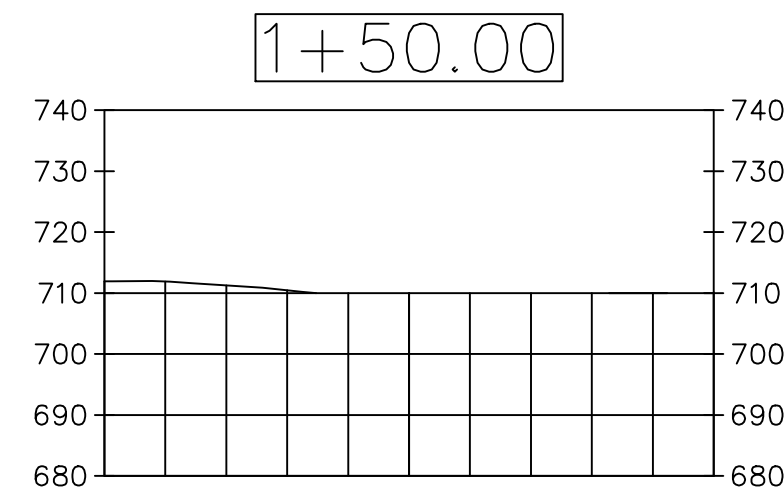
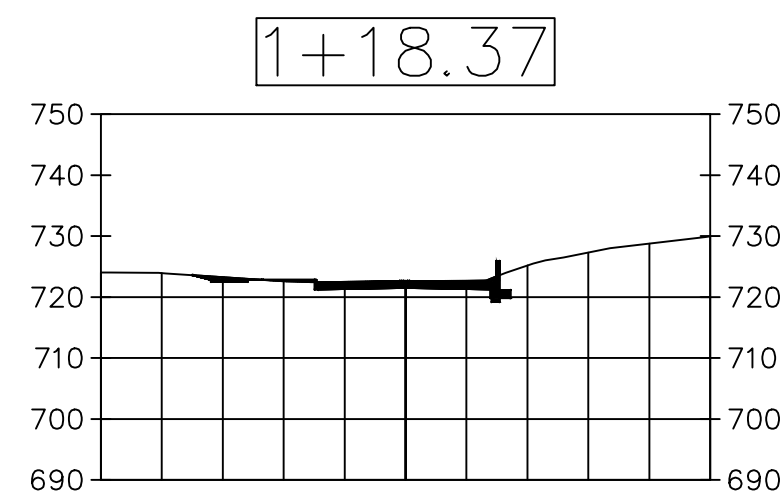
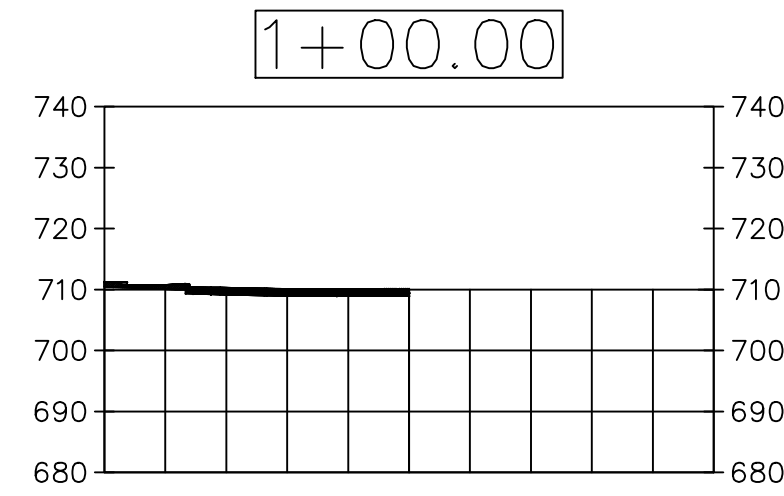
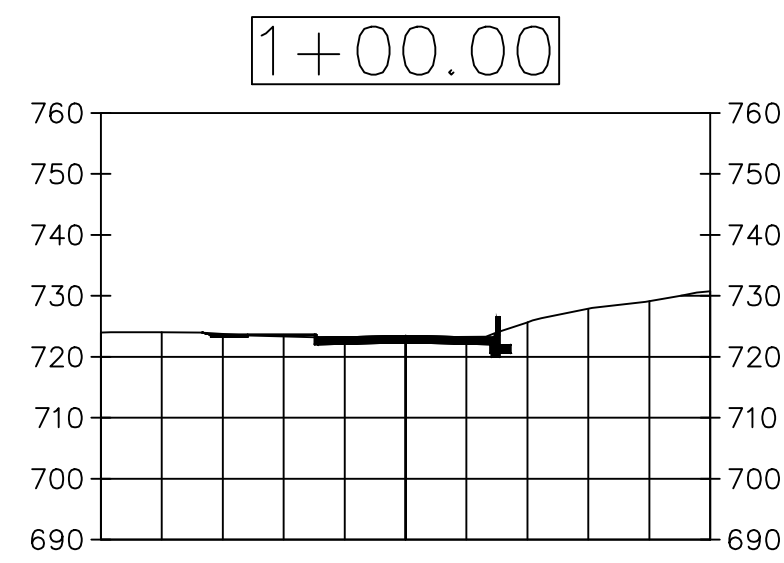
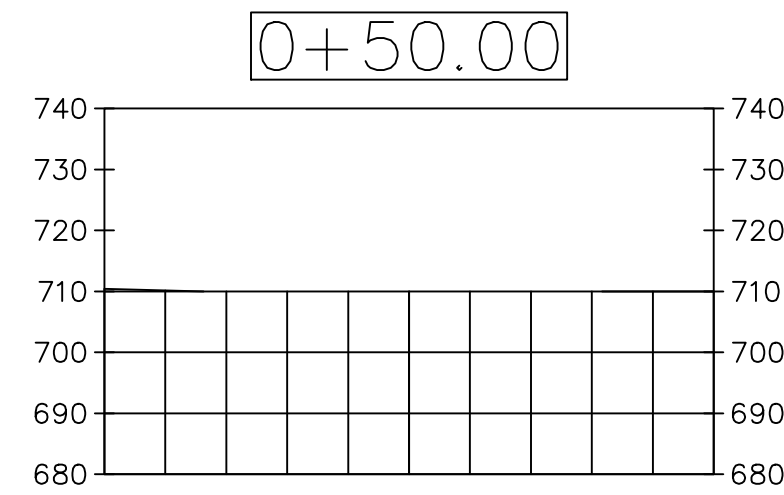
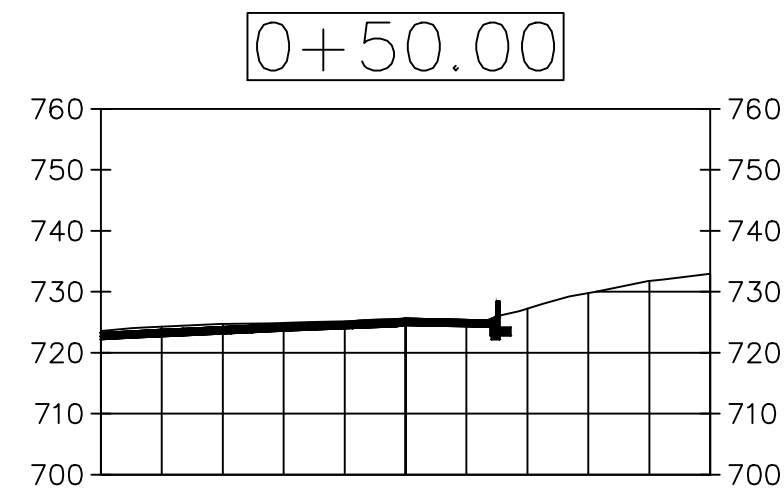
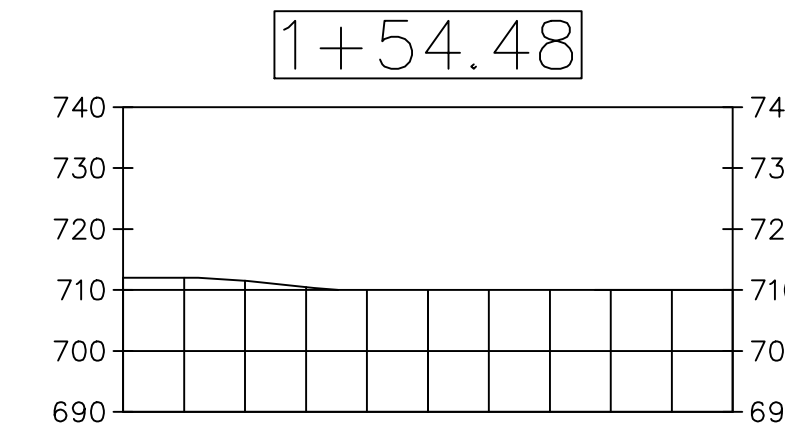
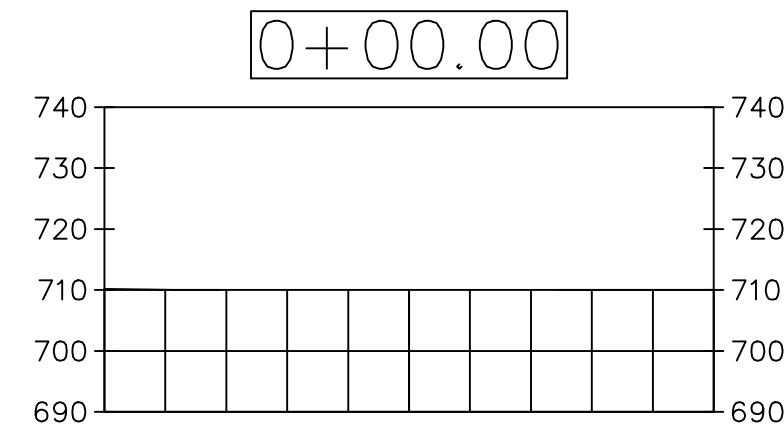
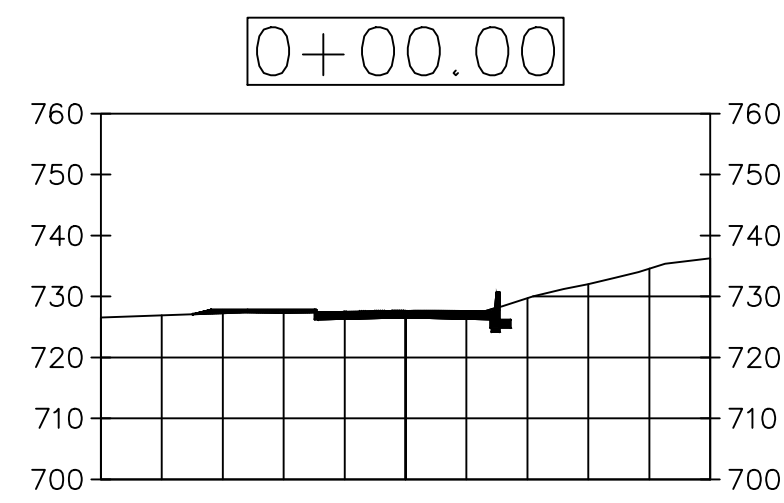
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**TRUCK REROUTING AND PAVEMENT REPLACEMENT**

SHEET NAME  
 EARTHWORK TABULATION

SHEET NO.  
**T.04B**



**DOWNEY STREET**

**FIRST STREET**

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	APH
REVISION:	

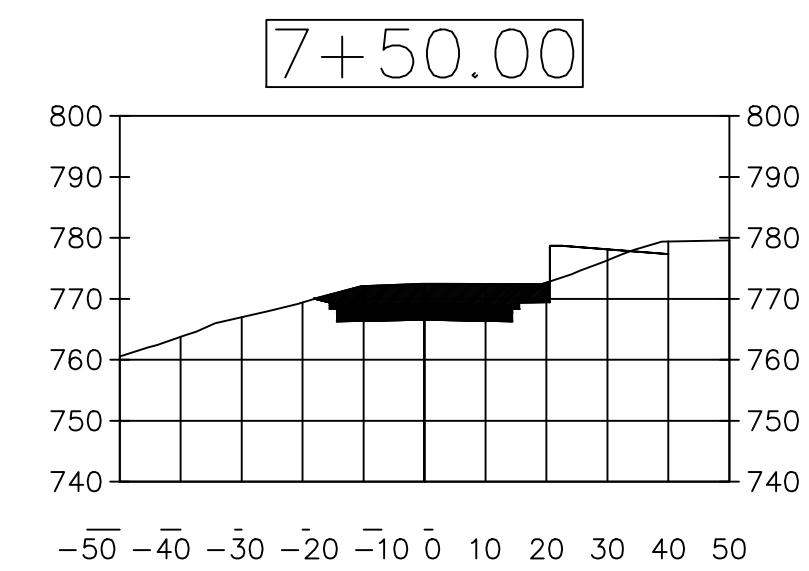
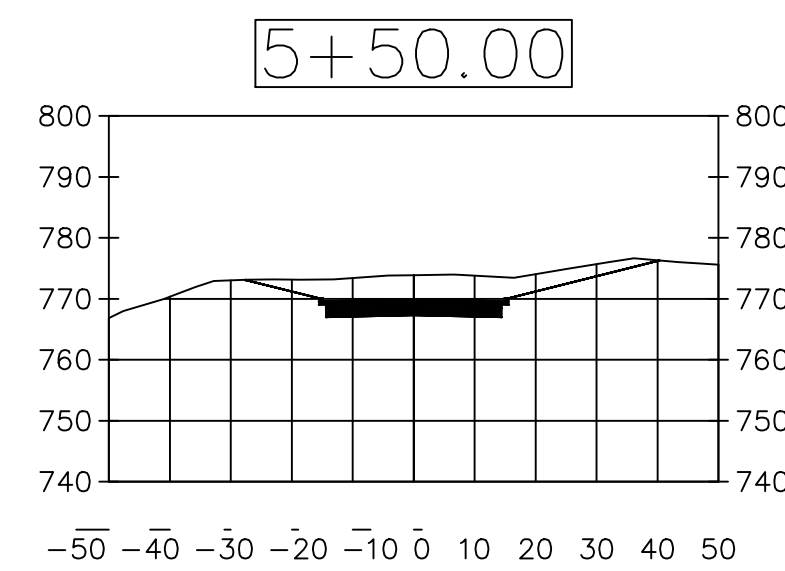
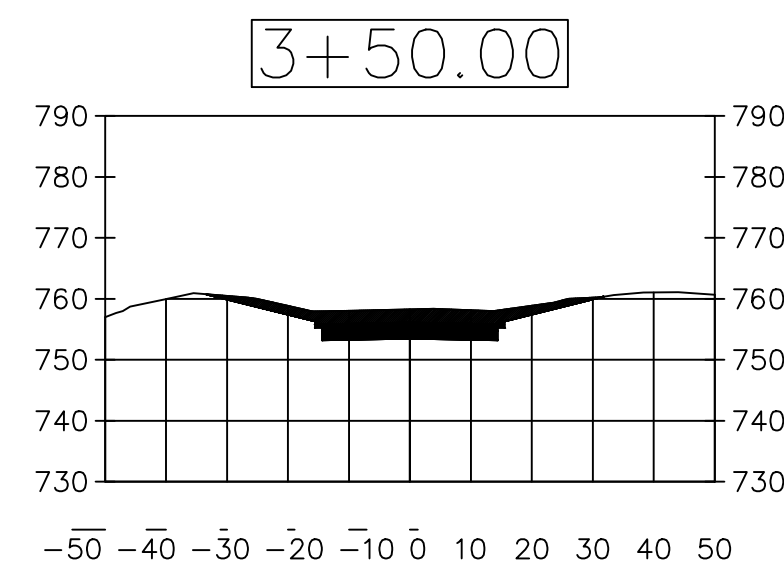
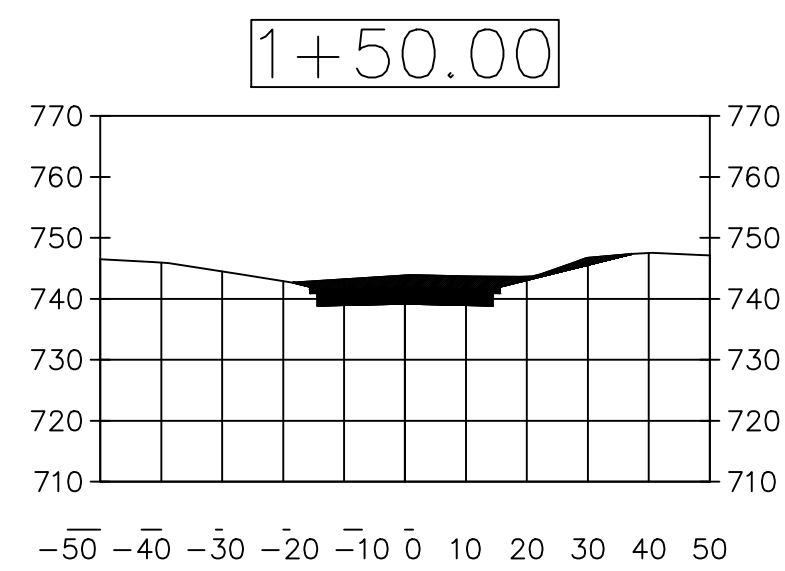
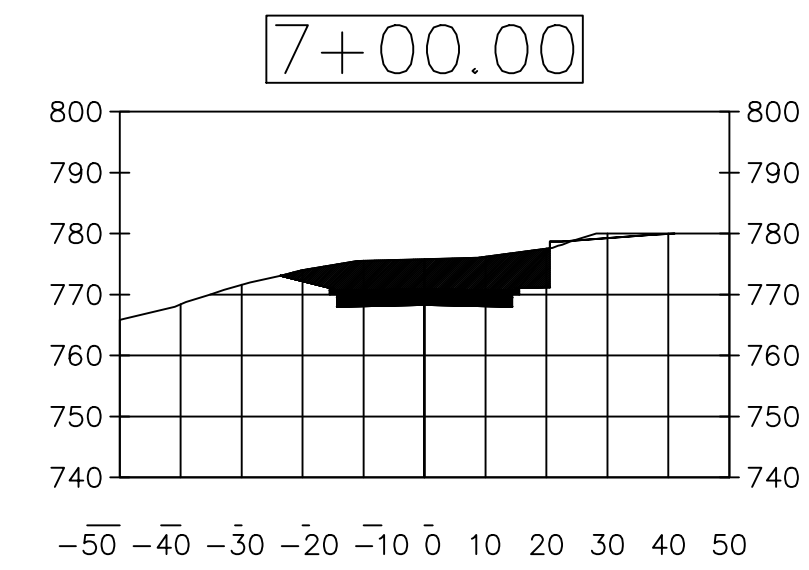
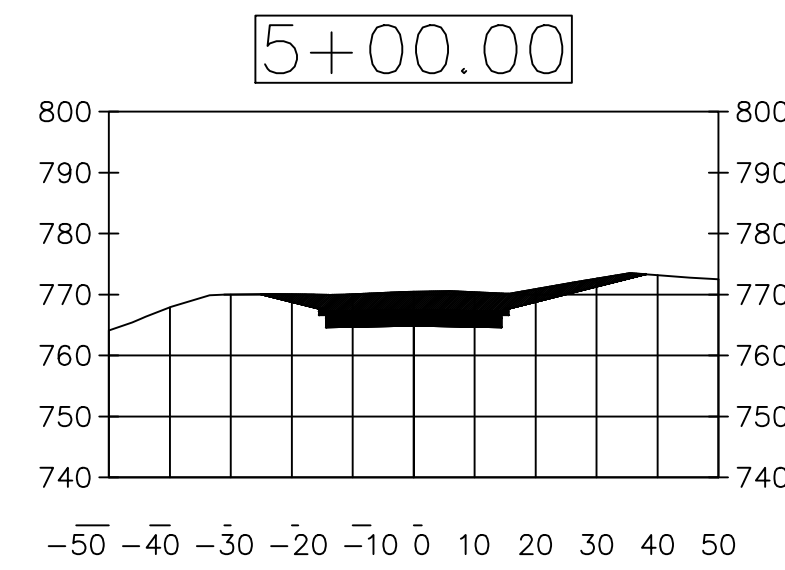
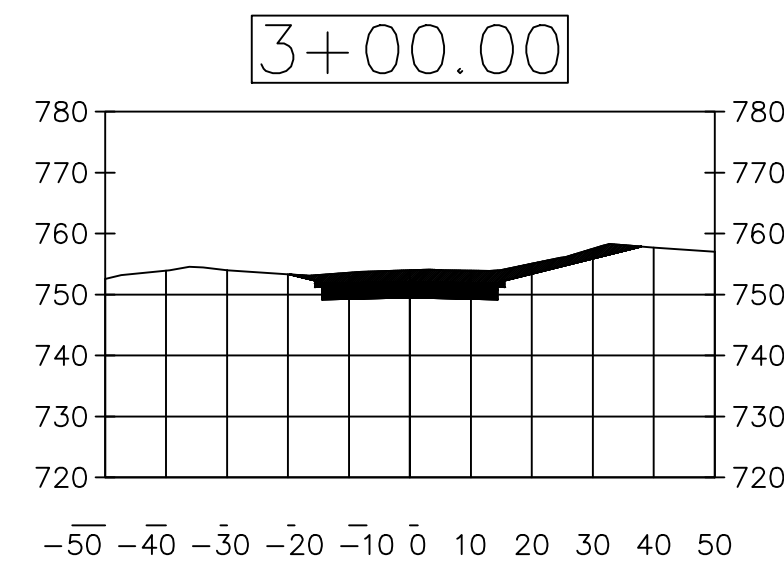
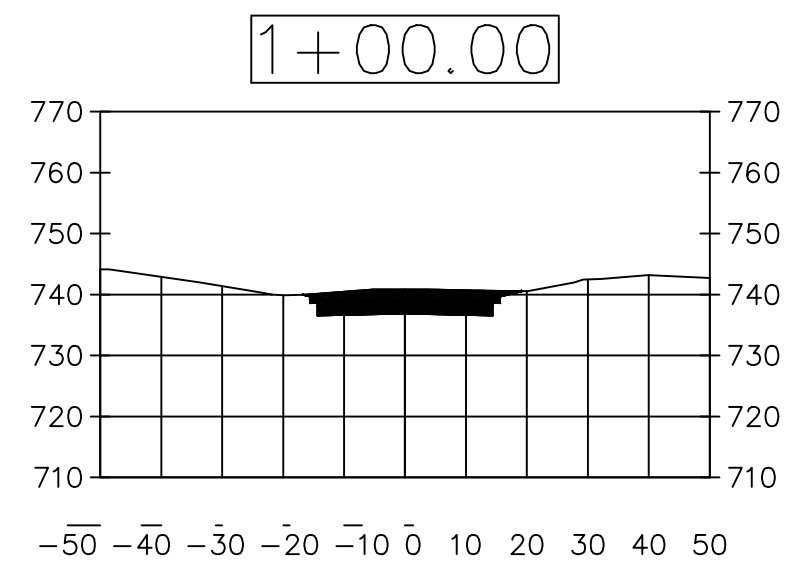
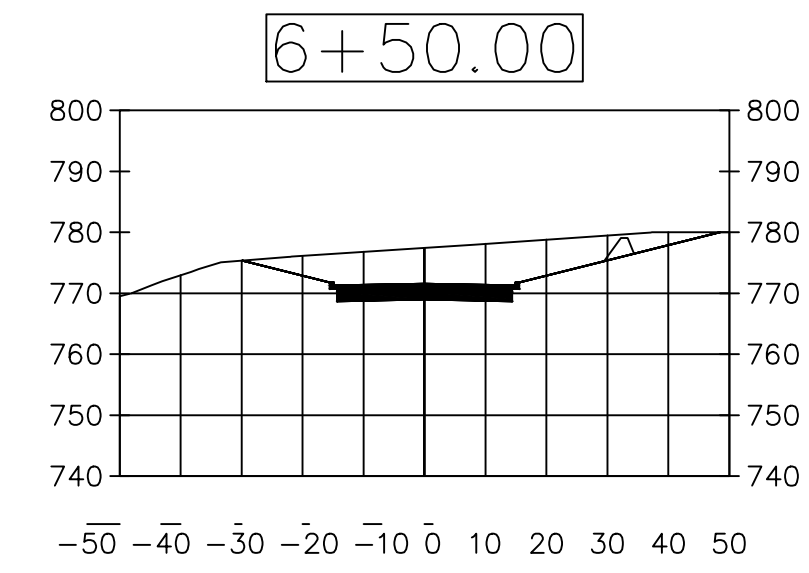
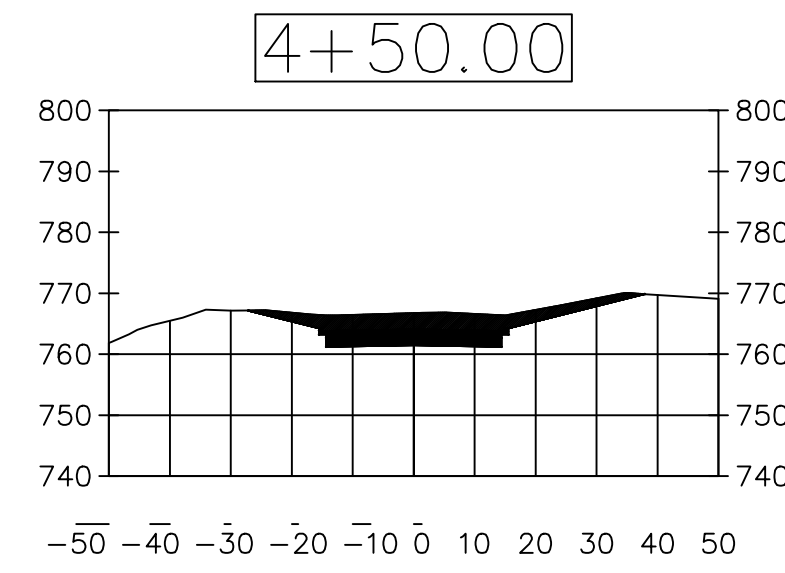
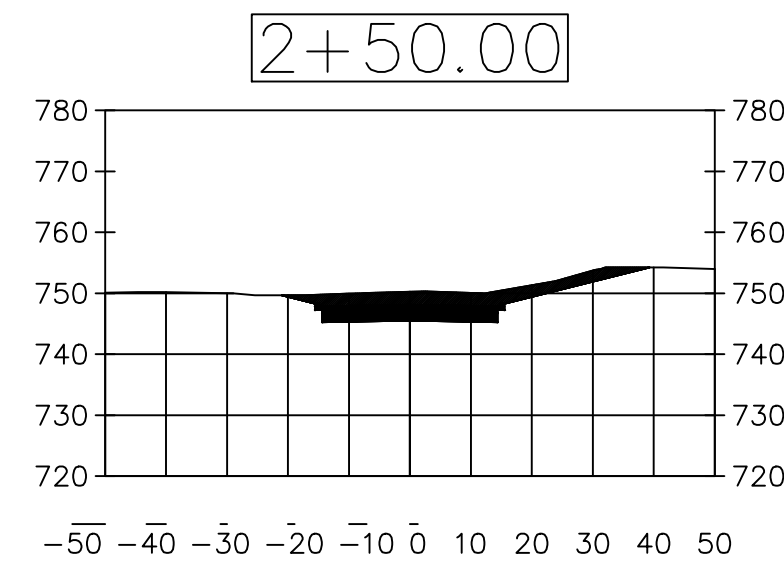
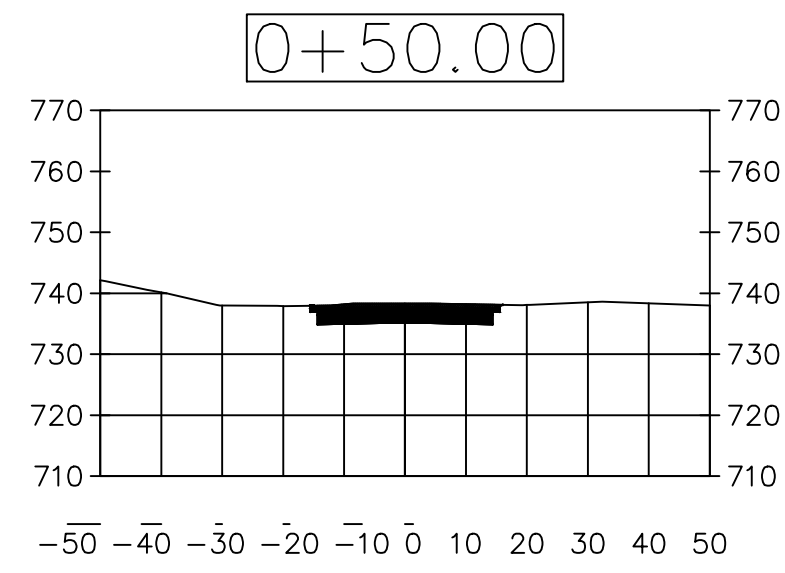
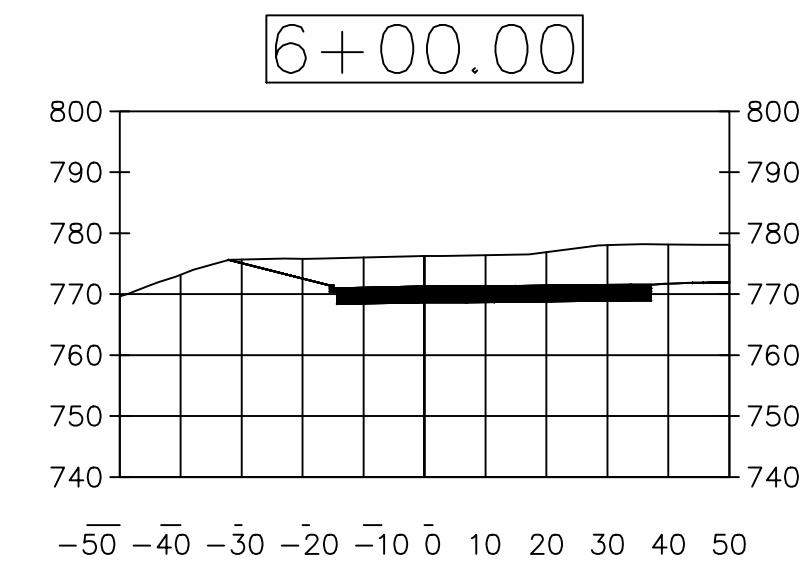
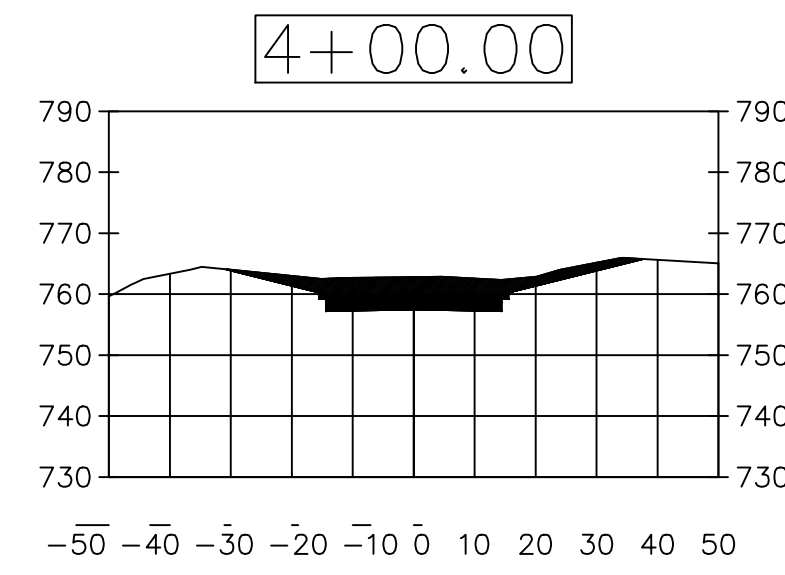
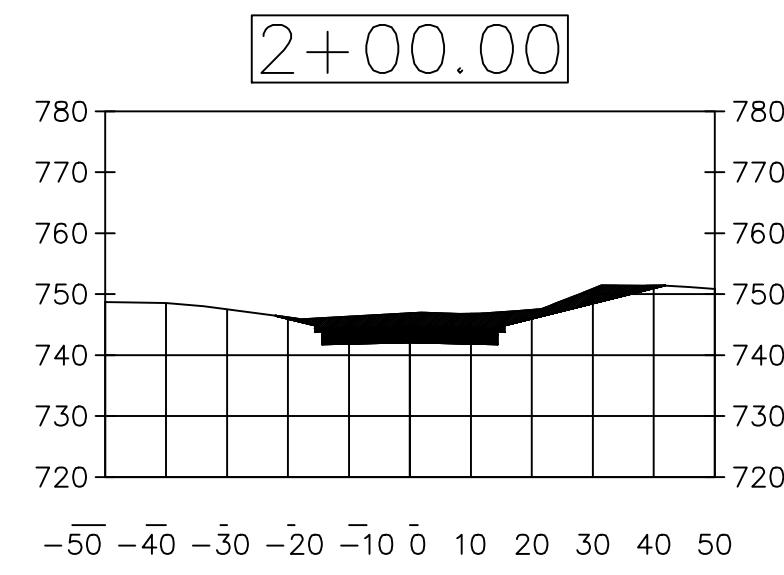
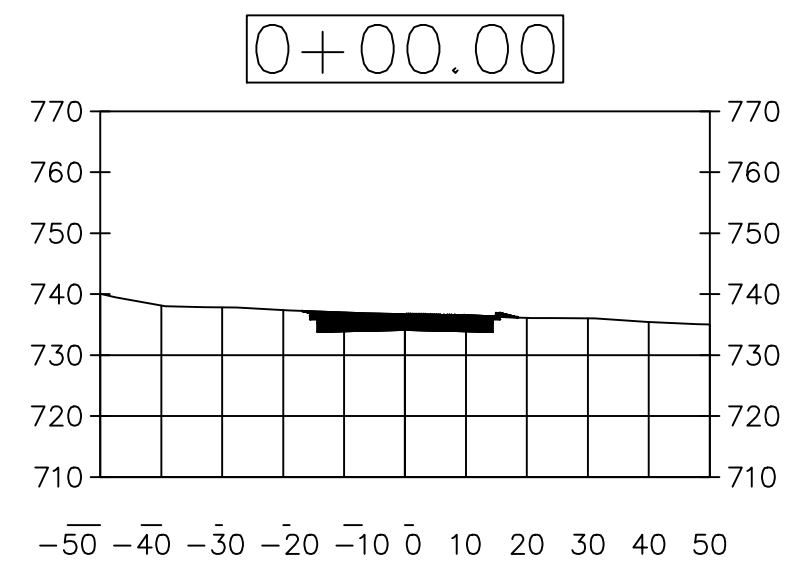
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**TRUCK REROUTING AND  
PAVEMENT REPLACEMENT**

SHEET NAME  
TYPICAL CROSS  
SECTIONS

SHEET NO.  
**W.01A**



# 4TH STREET

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	SJH
REVISION:	

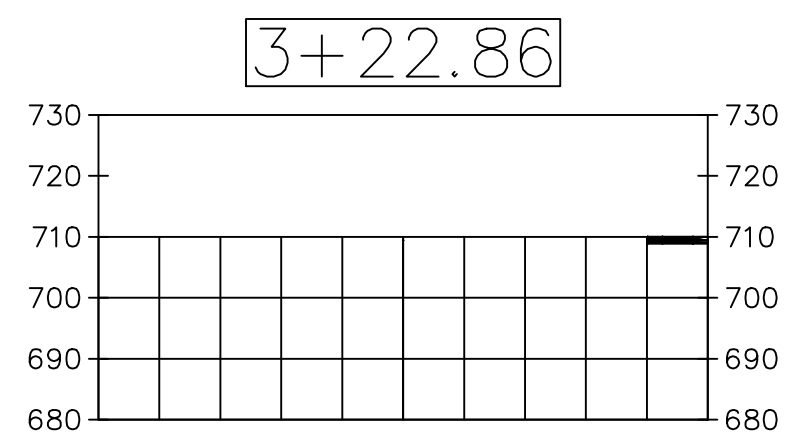
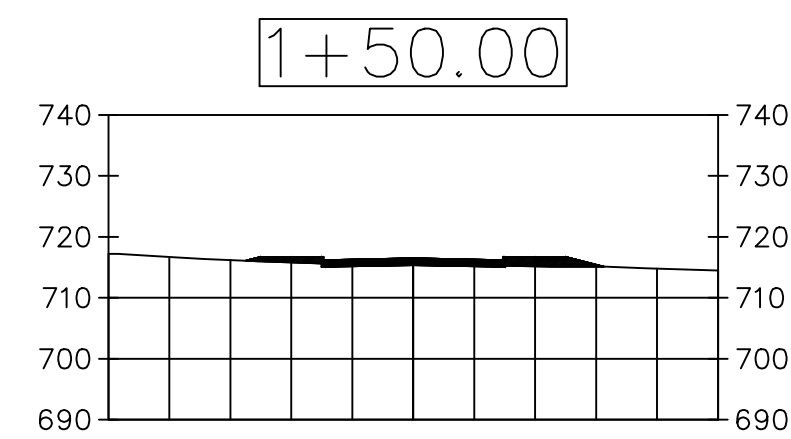
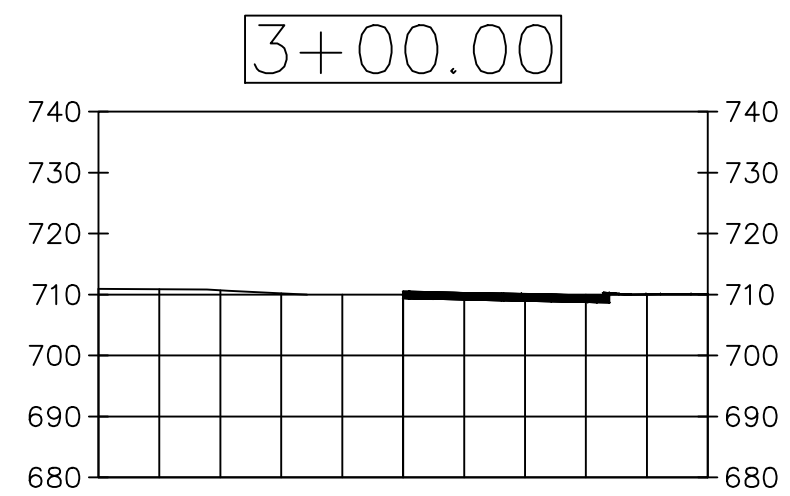
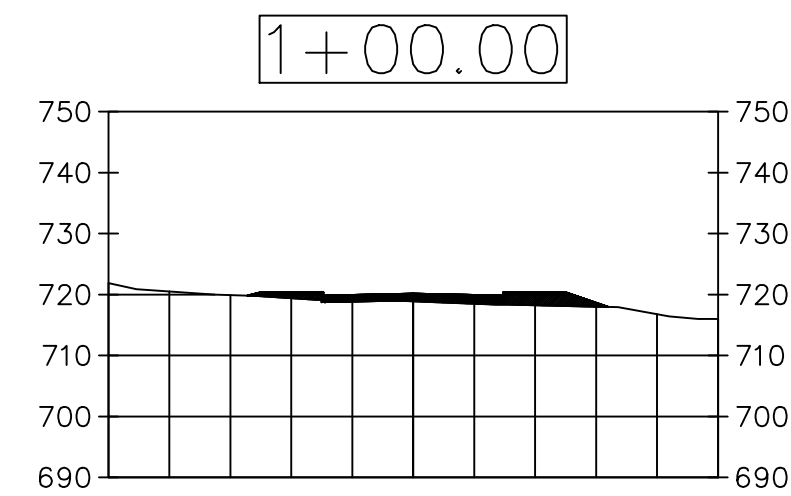
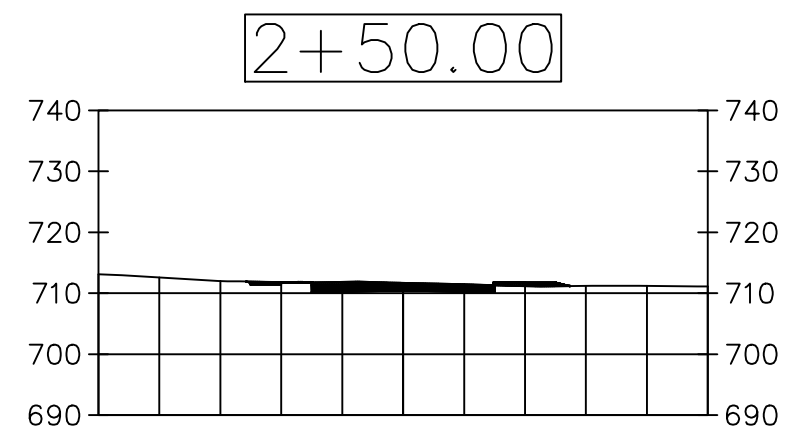
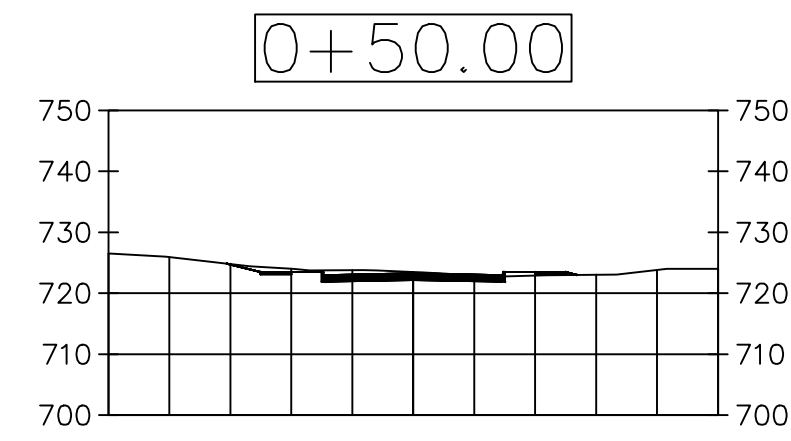
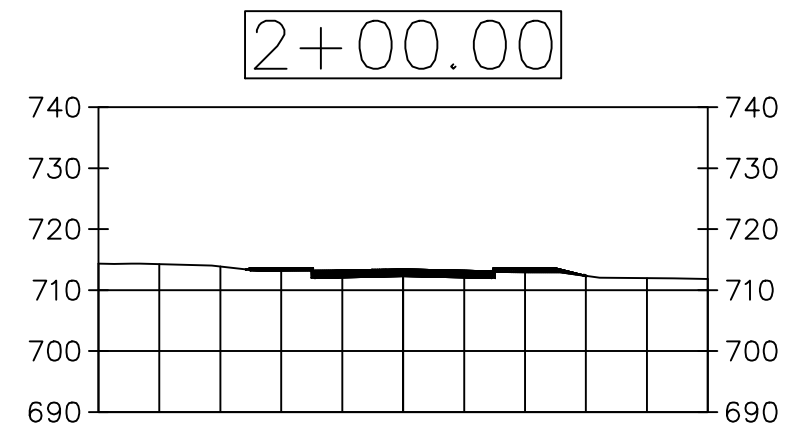
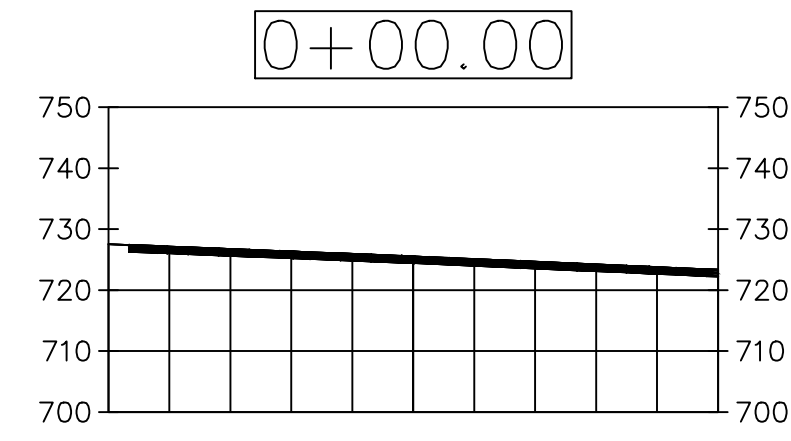
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 FAX: 319.335.5660  
 EMAIL: [civil-hawks@iowaeu.edu](mailto:civil-hawks@iowaeu.edu)

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## TRUCK REROUTING AND PAVEMENT REPLACEMENT

SHEET NAME  
 TYPICAL CROSS SECTIONS

SHEET NO.  
**W.01B**



# GREEN STREET

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	APH
REVISION:	

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**TRUCK REROUTING AND**

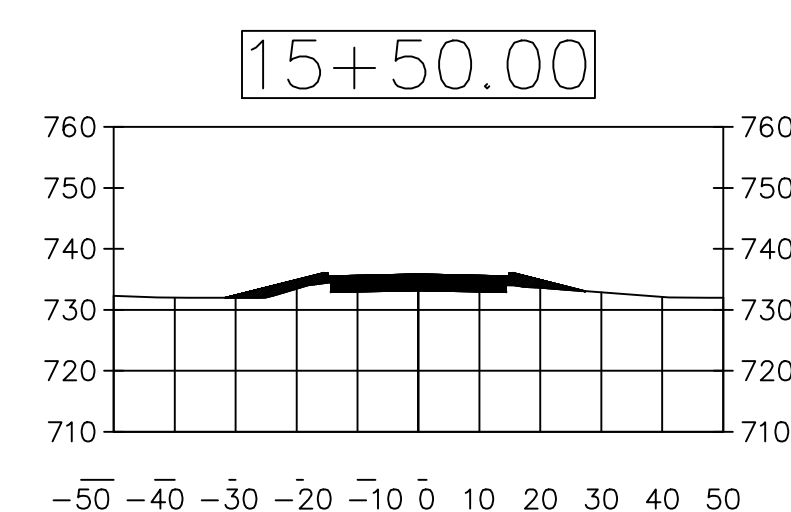
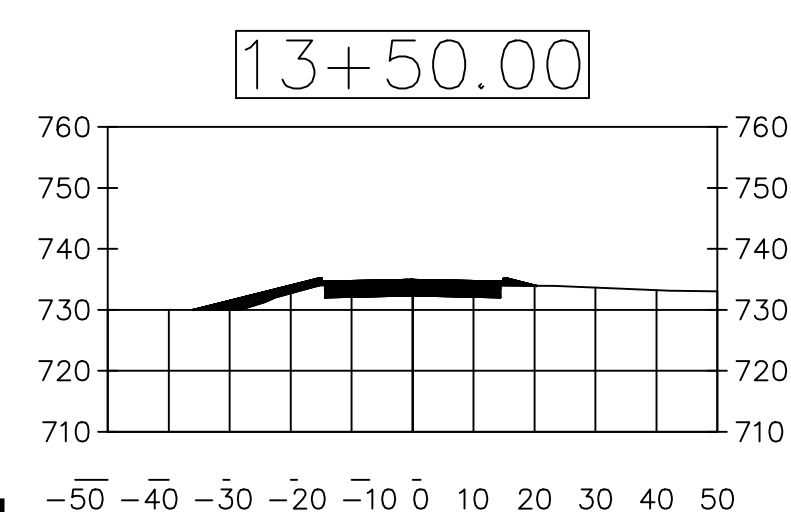
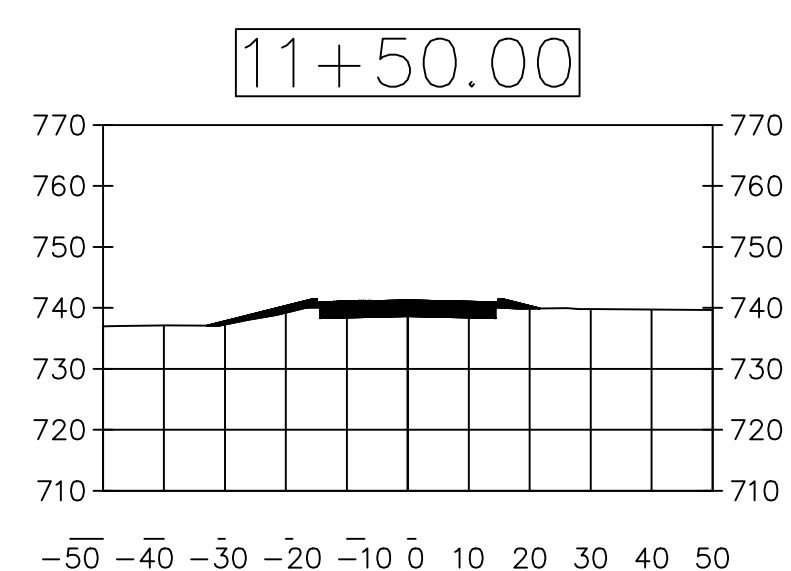
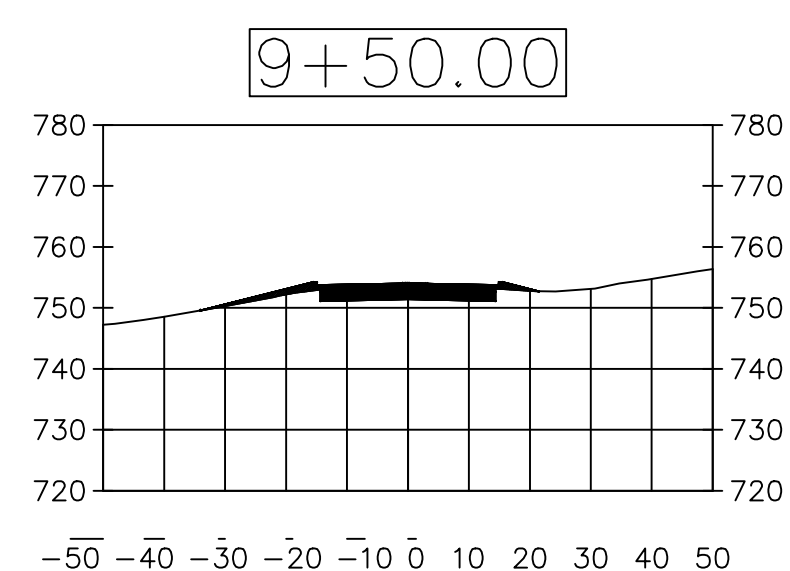
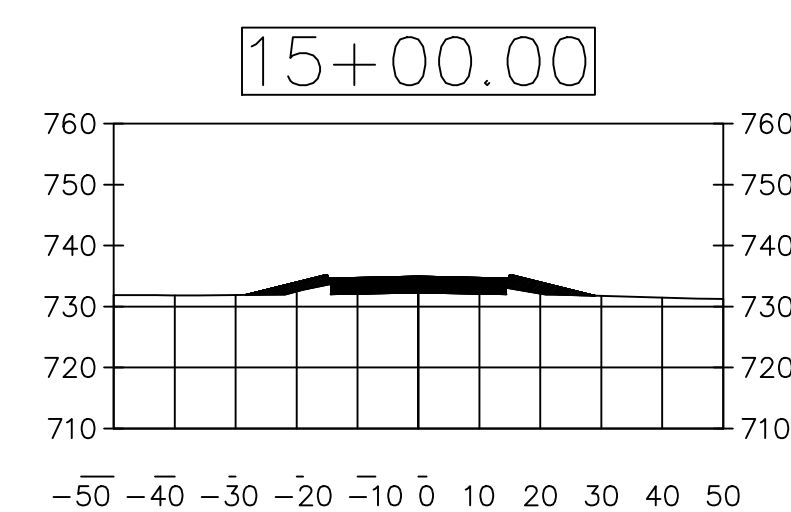
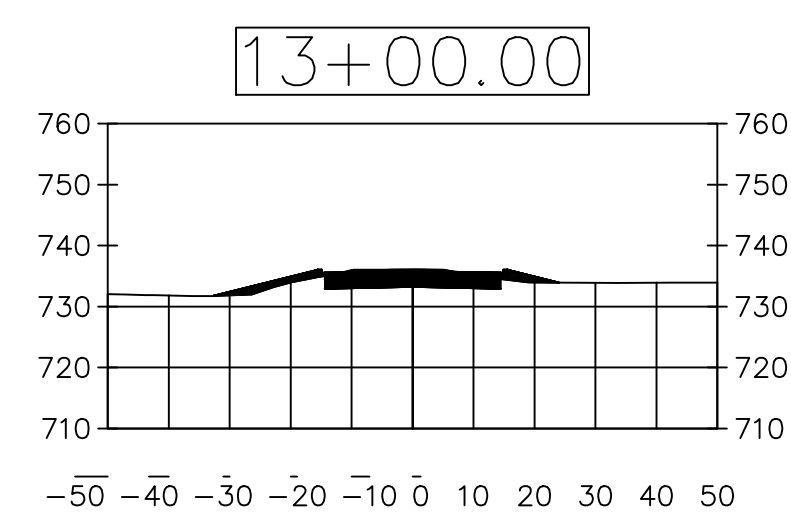
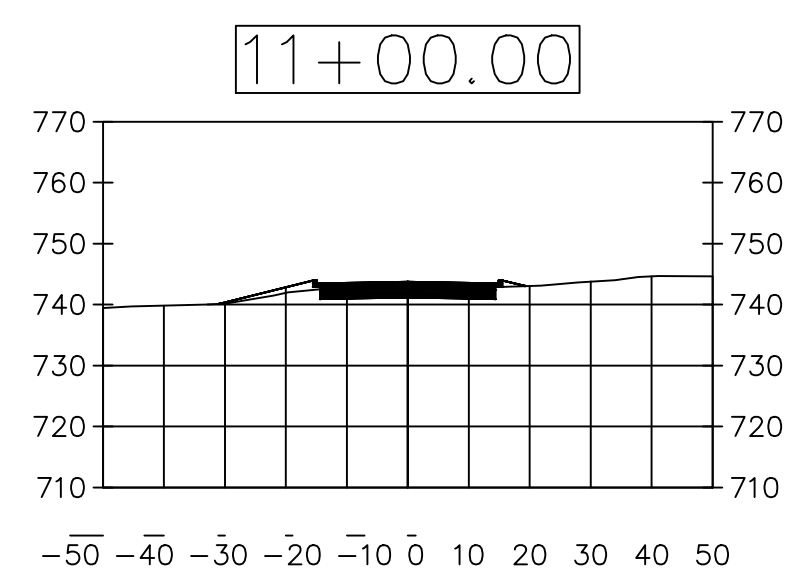
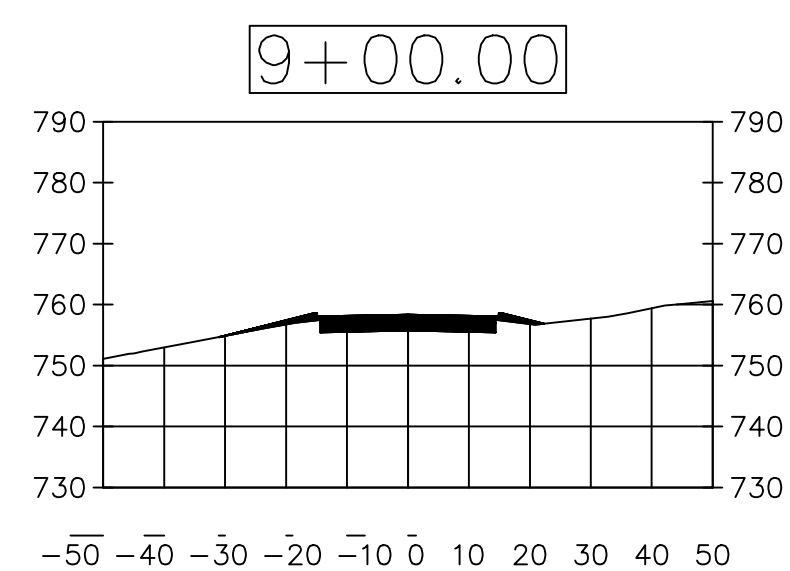
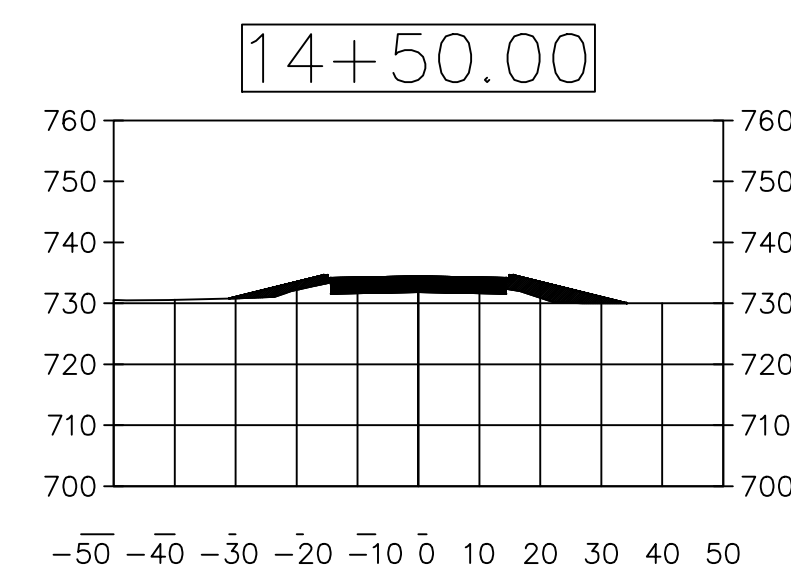
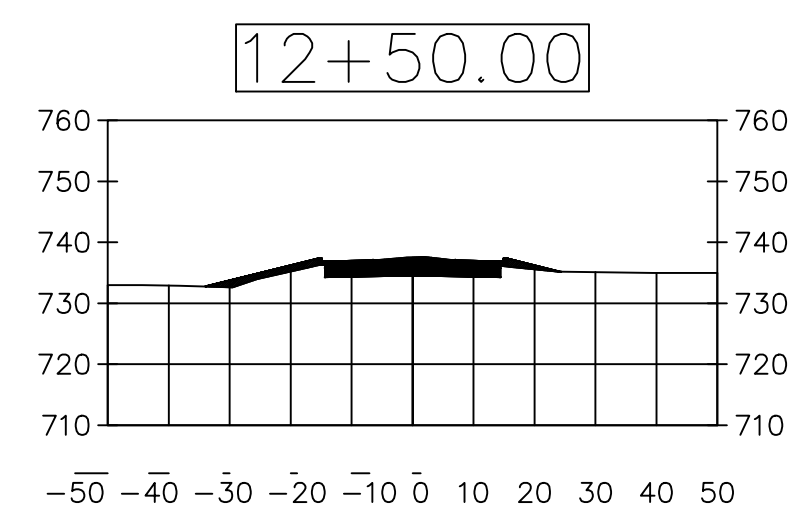
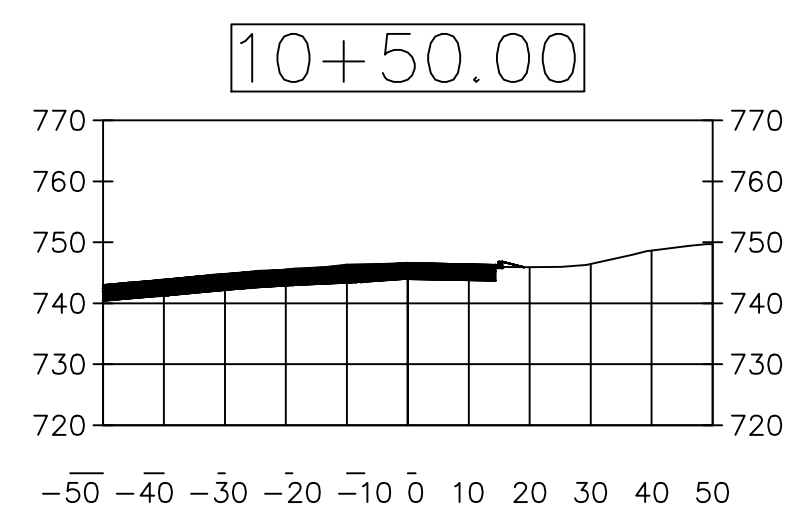
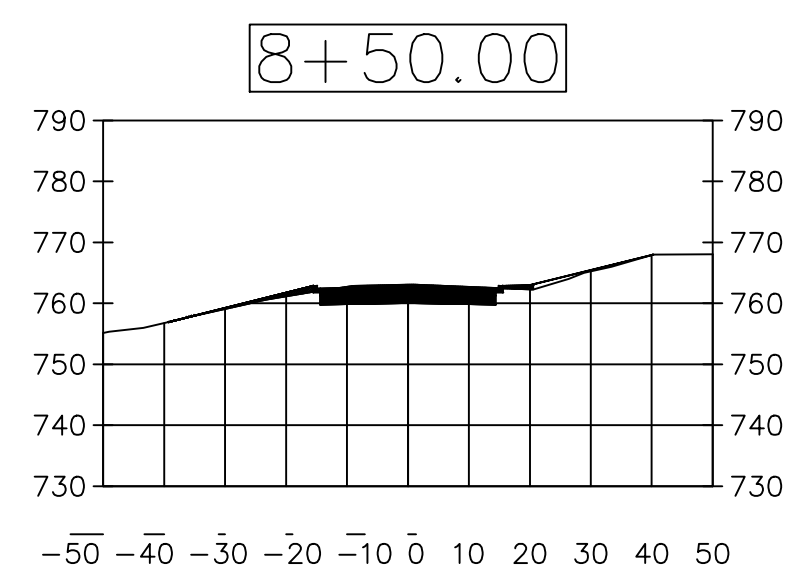
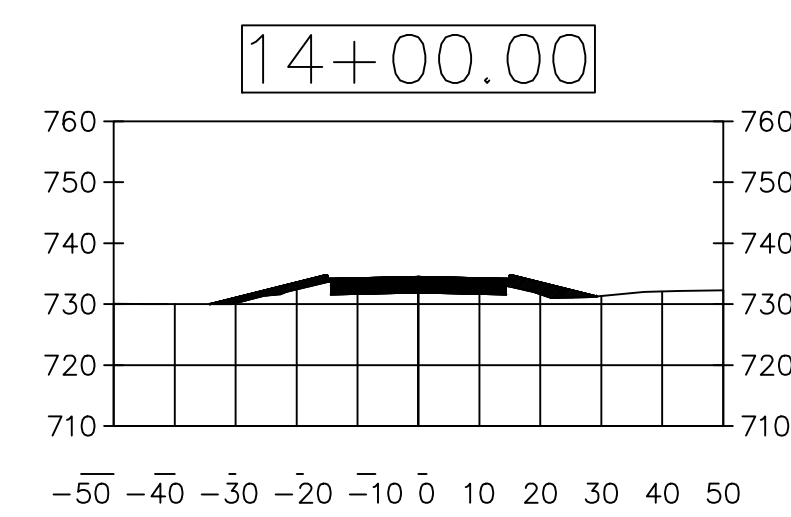
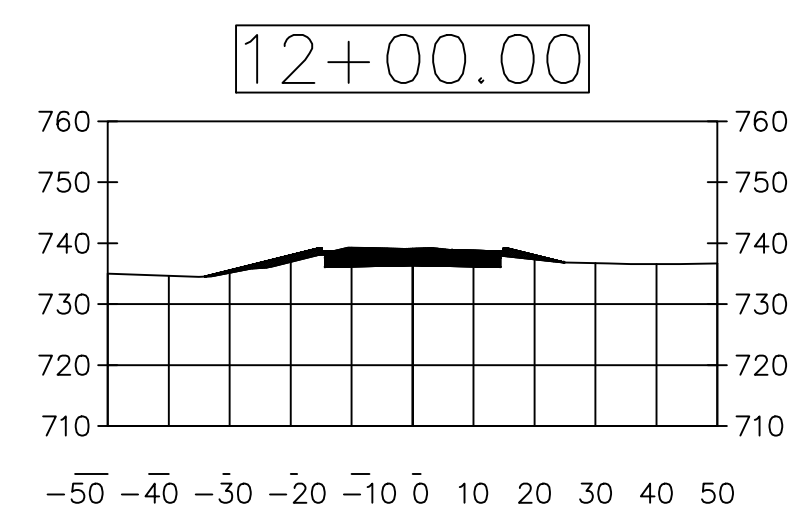
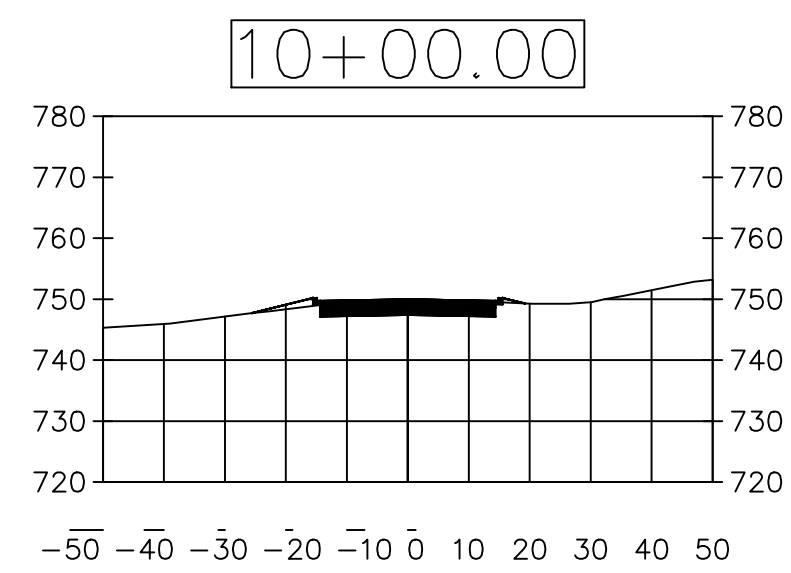
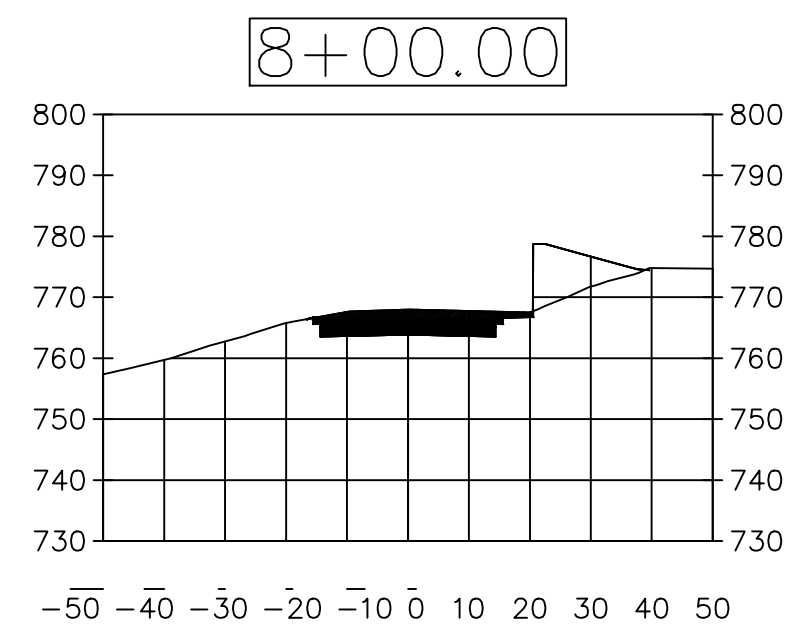
**PAVEMENT REPLACEMENT**

SHEET NAME

TYPICAL CROSS  
 SECTIONS

SHEET NO.

**W.02A**



# 4TH STREET

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	SJH
REVISION:	

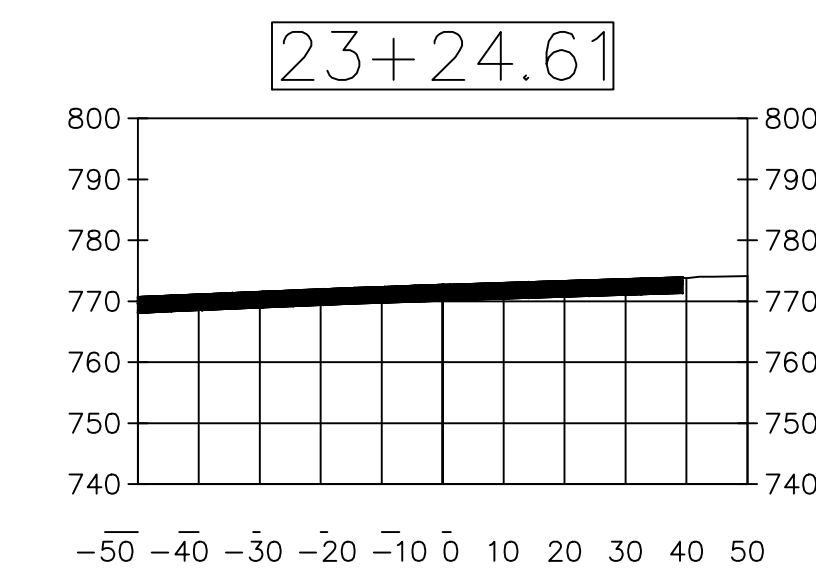
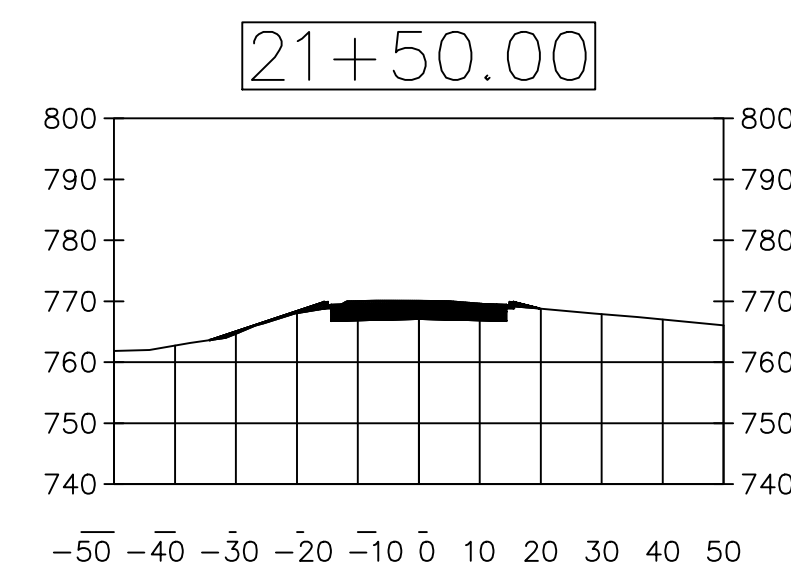
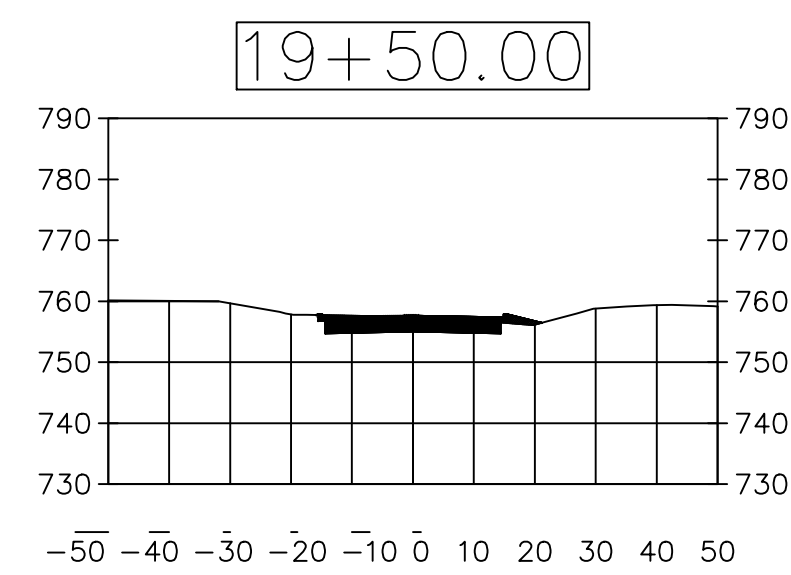
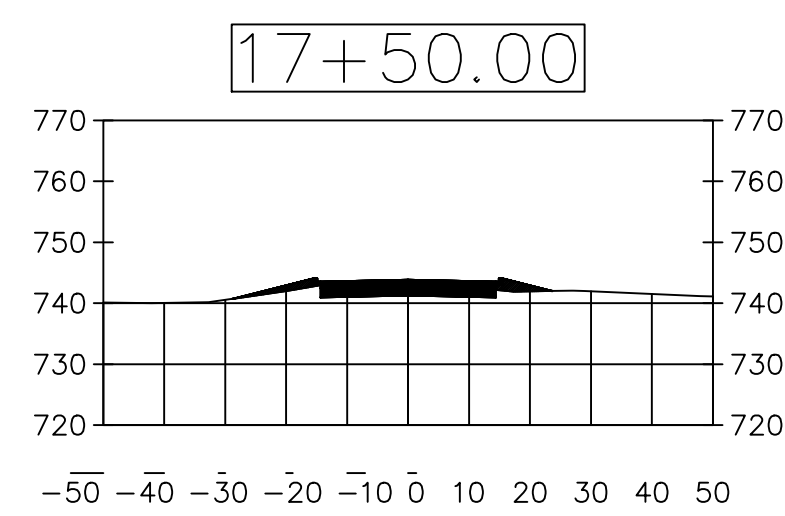
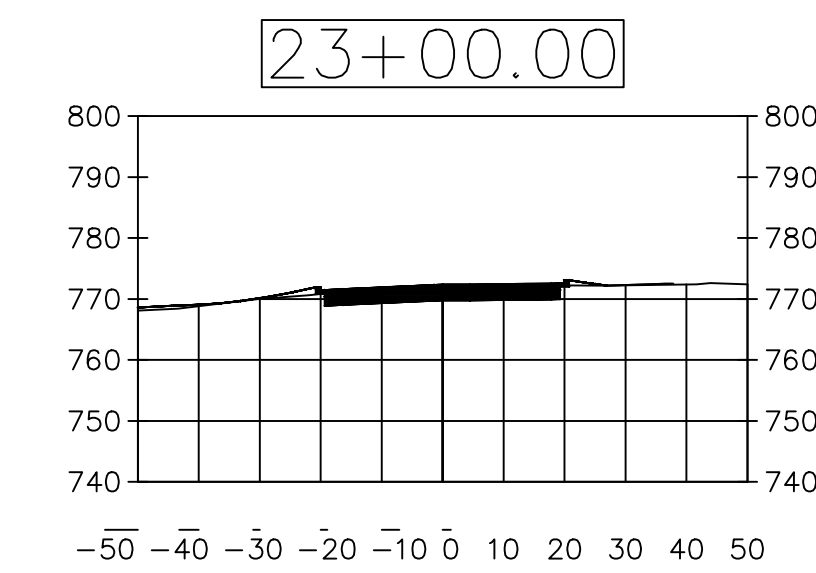
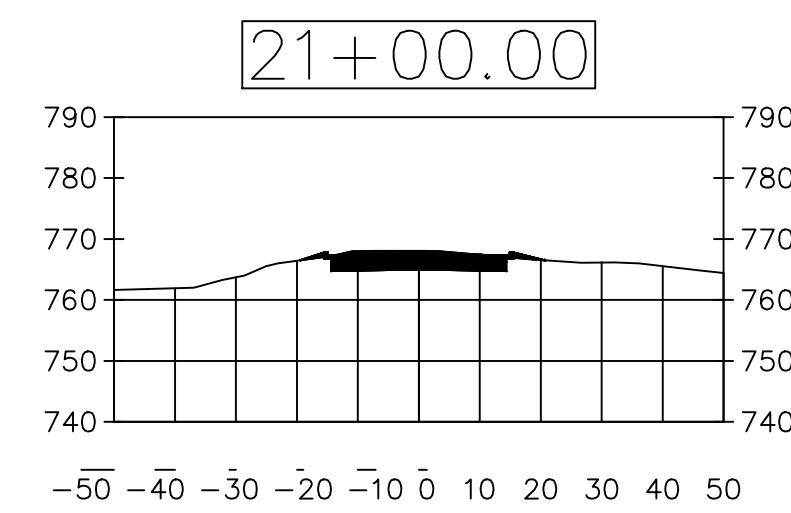
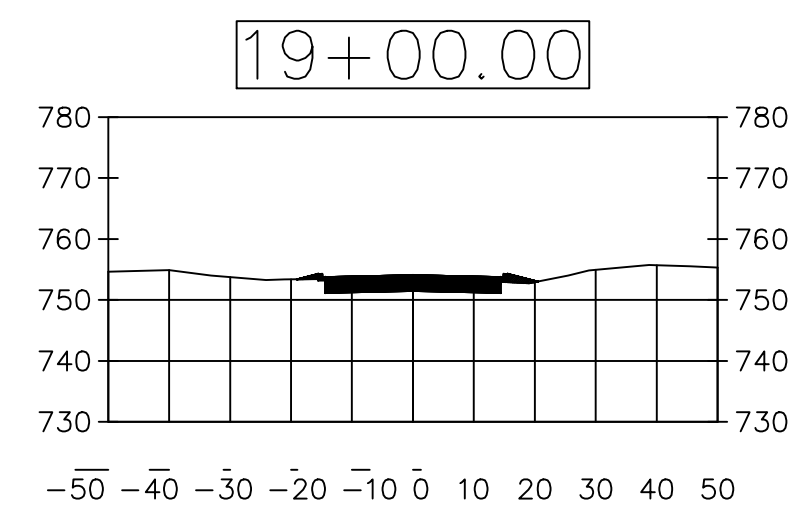
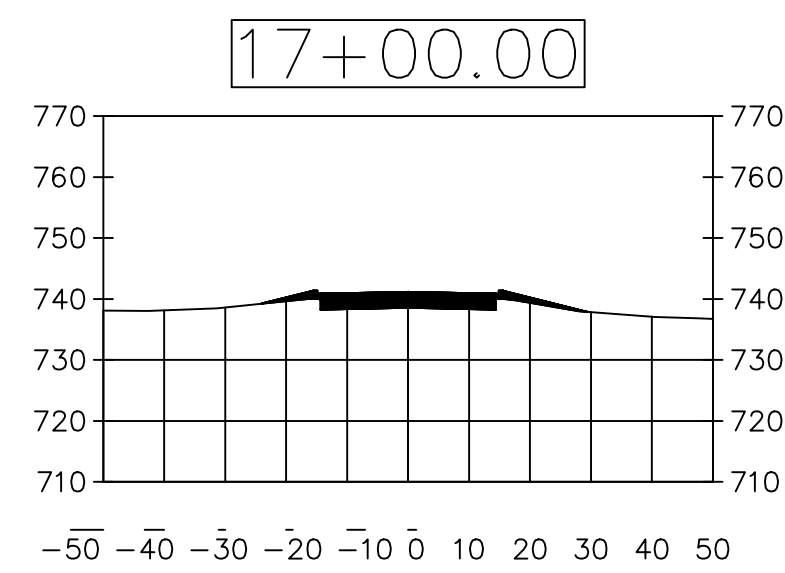
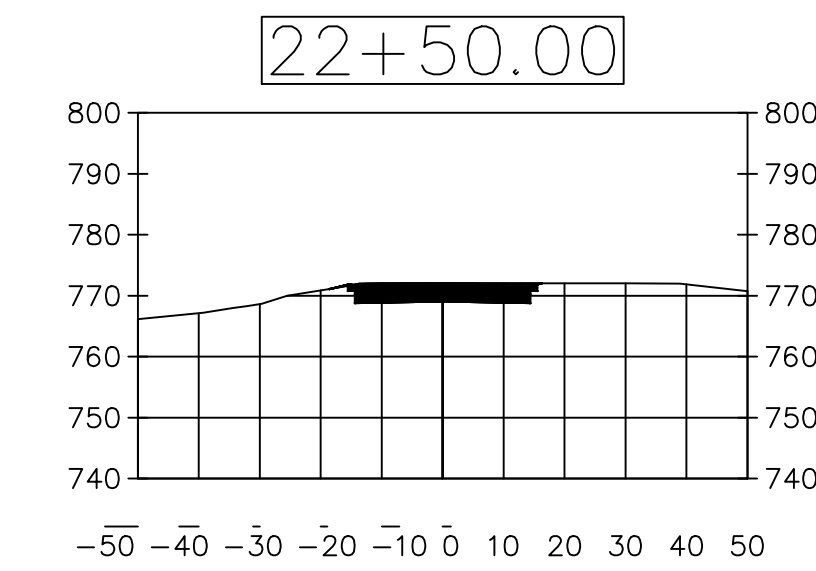
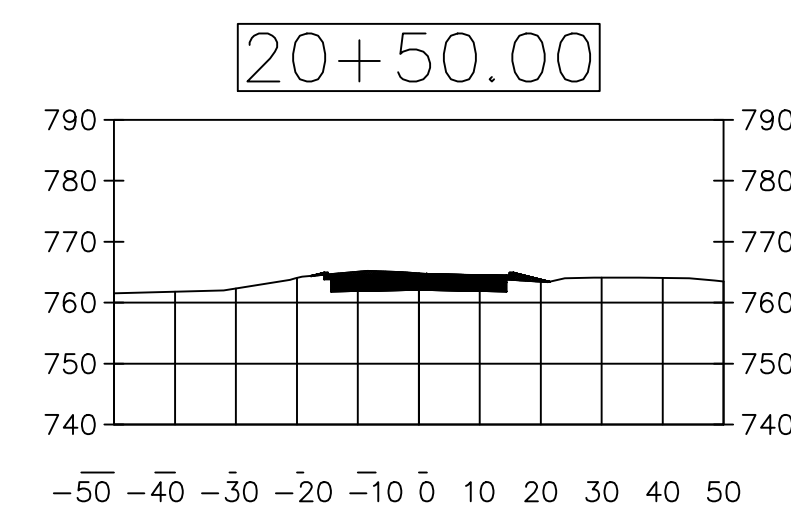
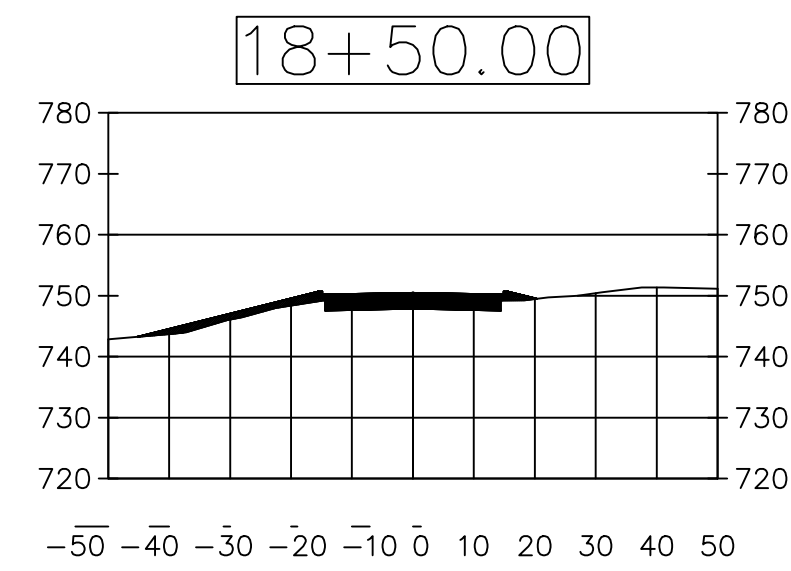
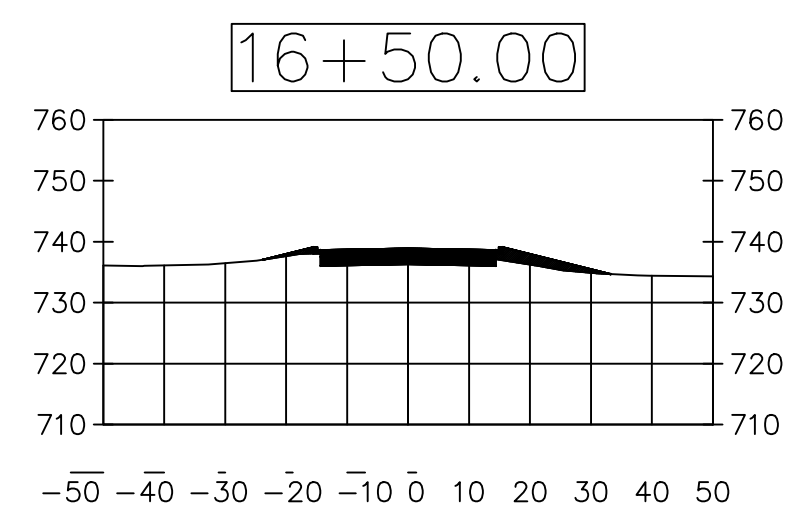
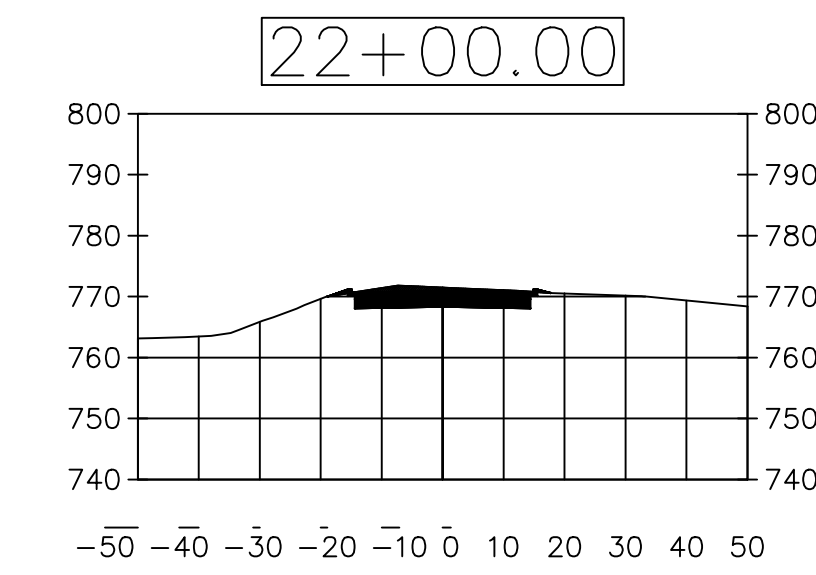
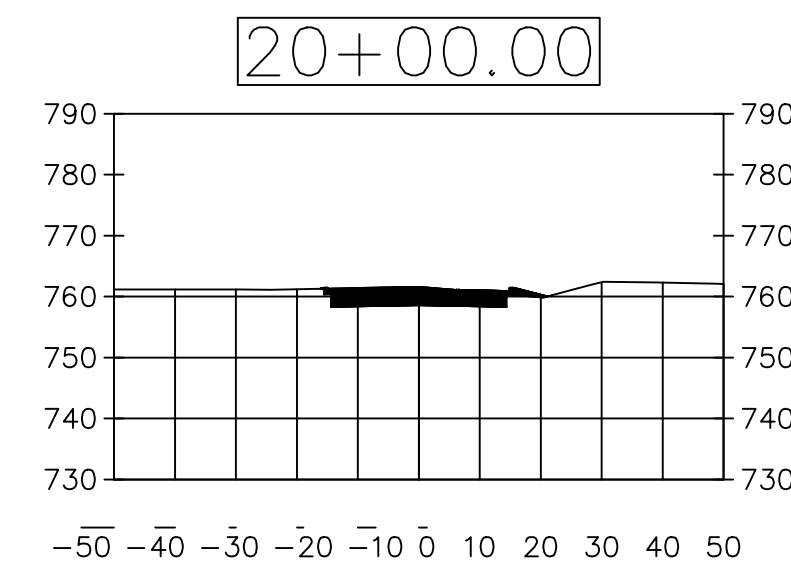
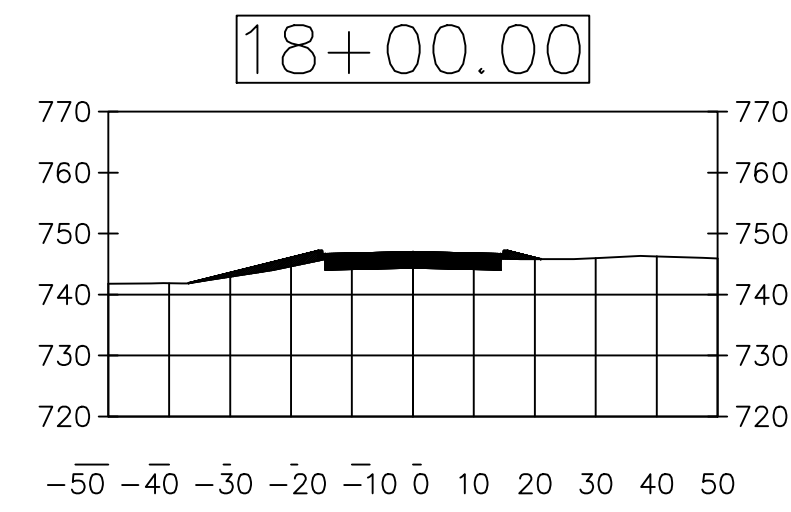
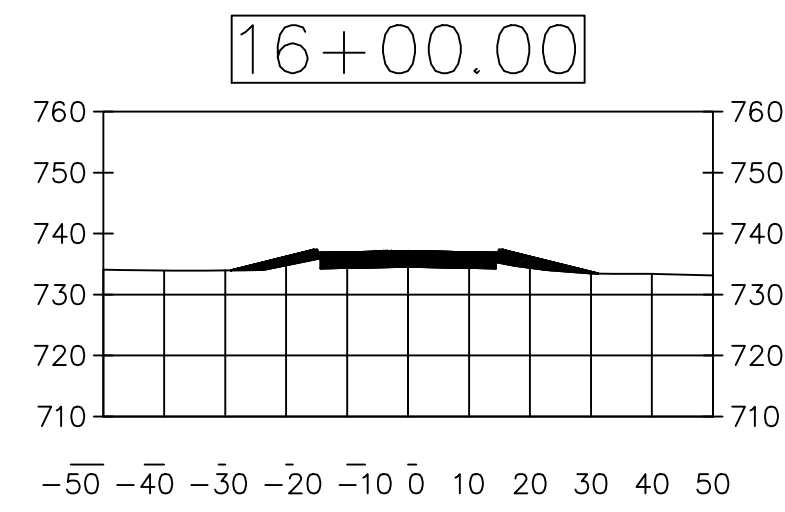
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 FAX: 319.335.5660  
 EMAIL: civil-hawks@iowa.edu

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## TRUCK REROUTING AND PAVEMENT REPLACEMENT

SHEET NAME  
TYPICAL CROSS SECTIONS

SHEET NO.  
**W.02B**



# 4TH STREET

PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: APH  
 REVISION:

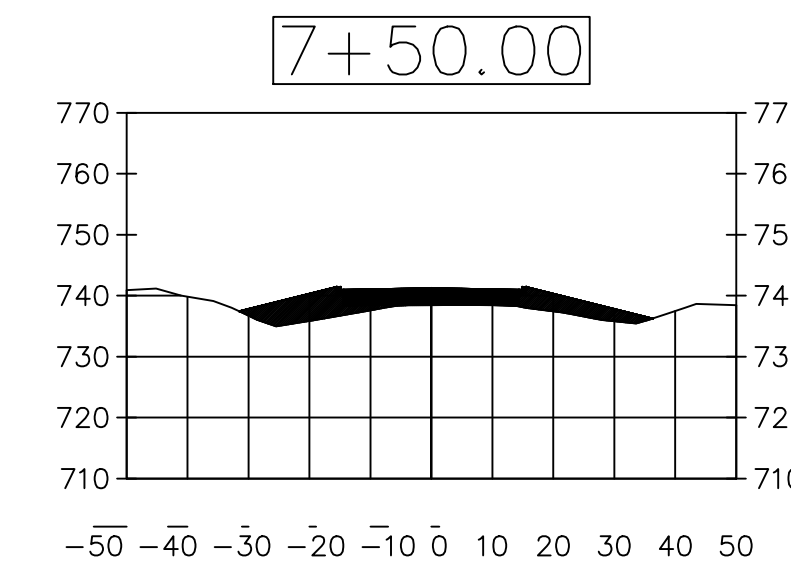
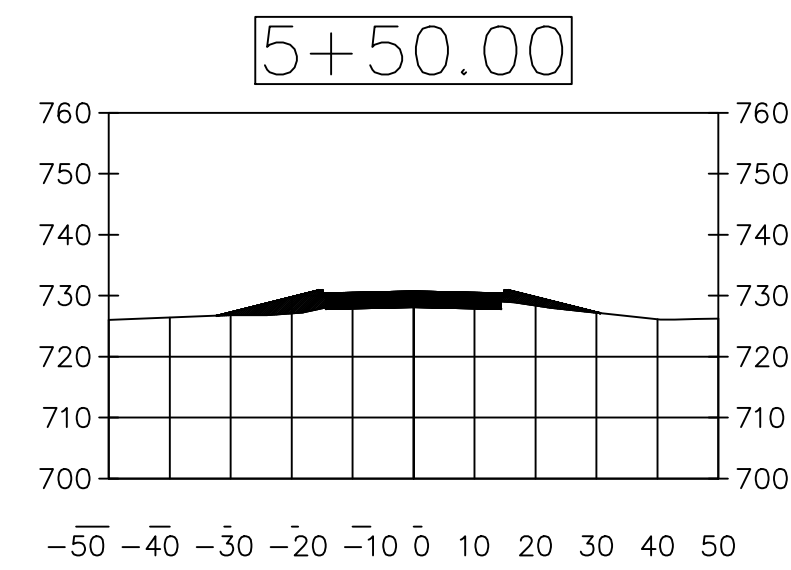
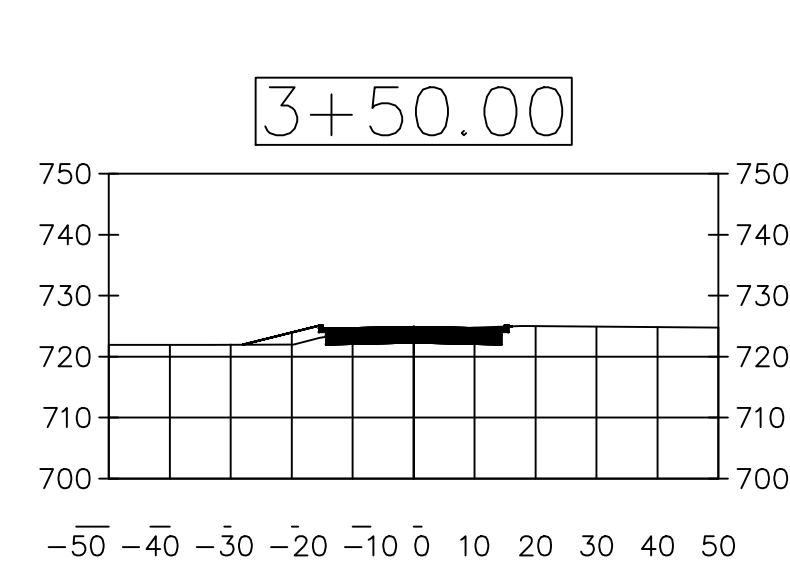
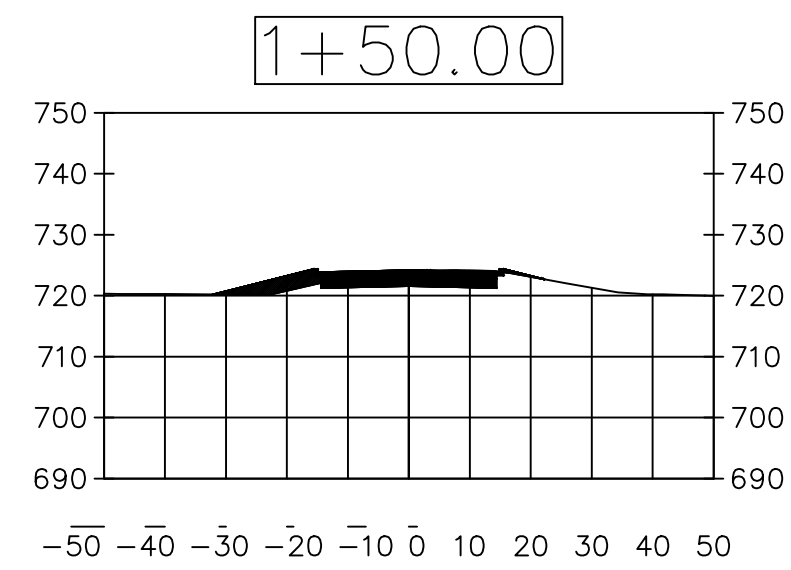
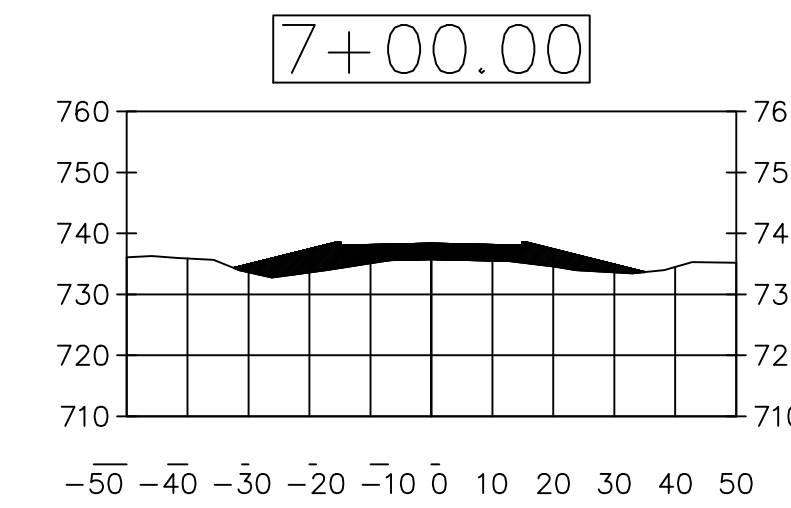
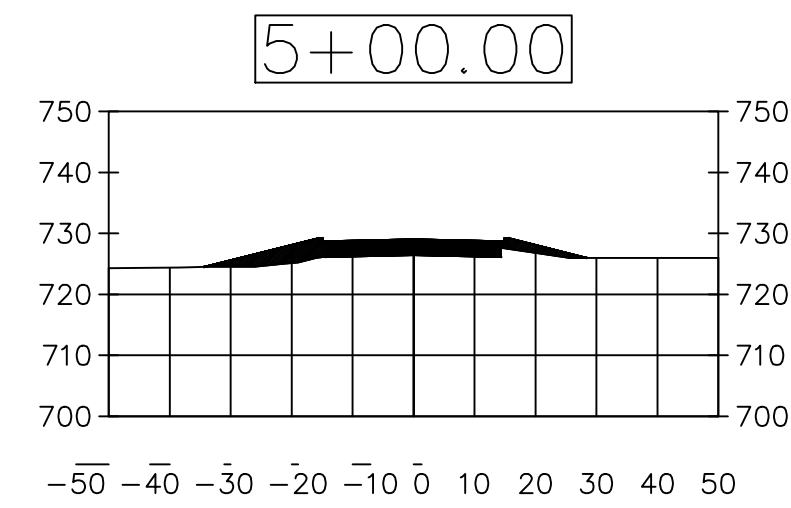
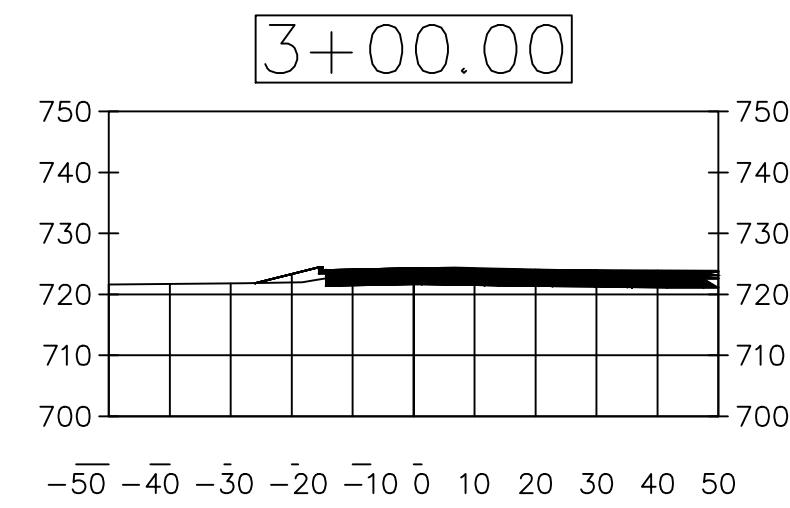
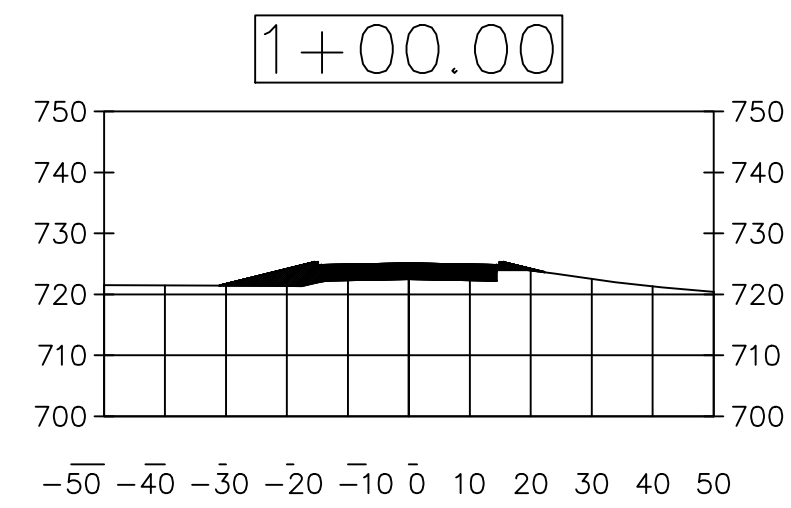
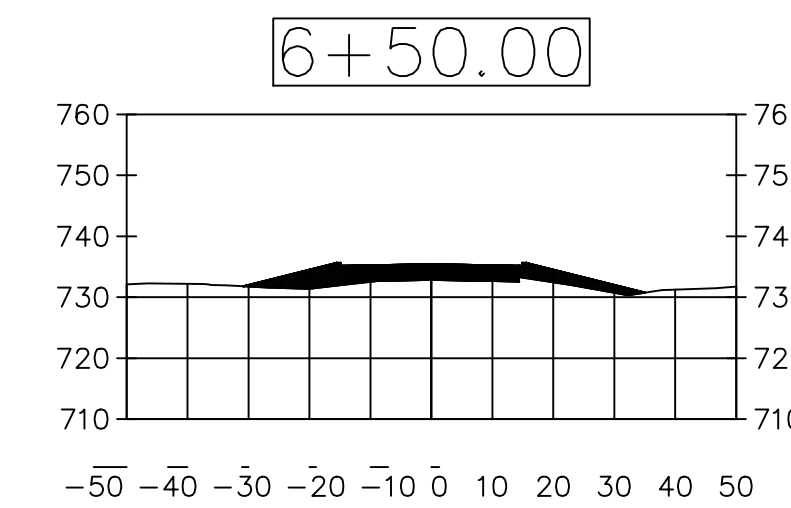
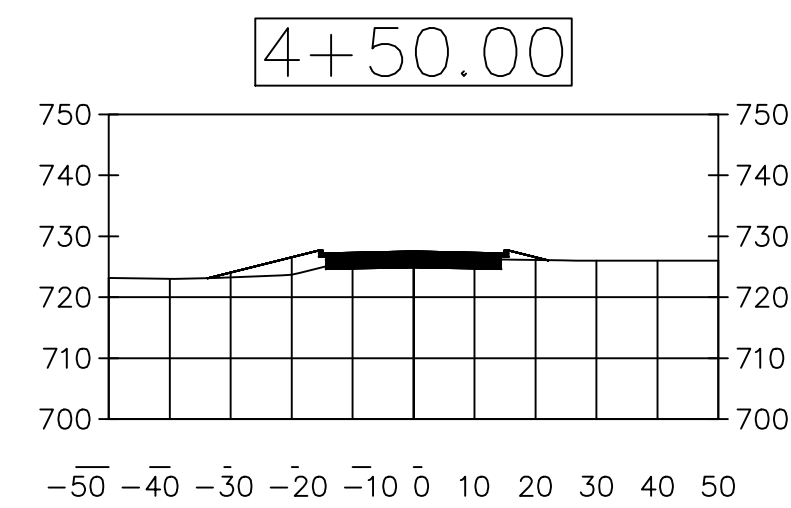
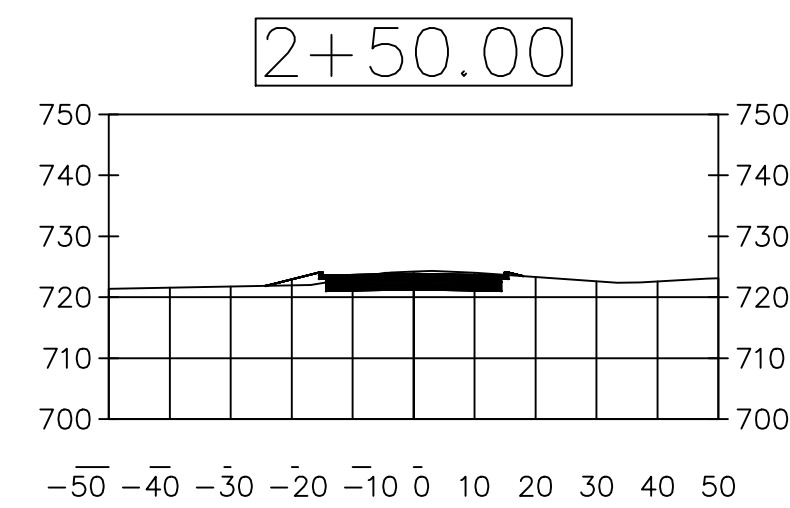
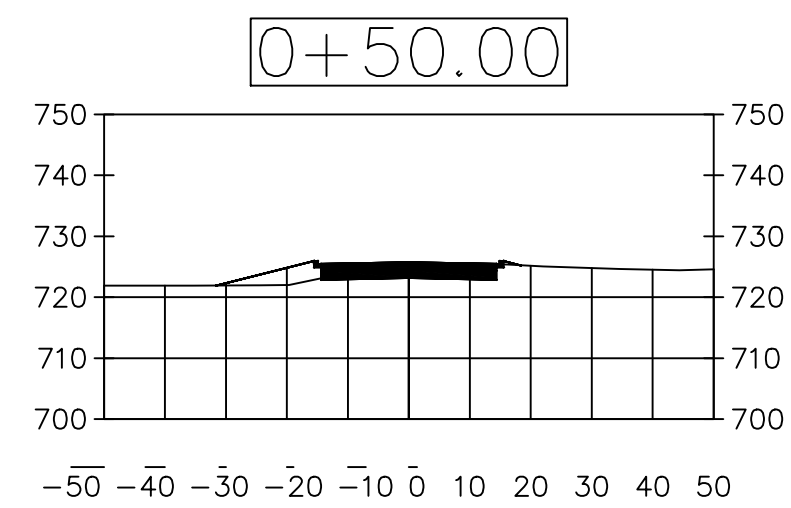
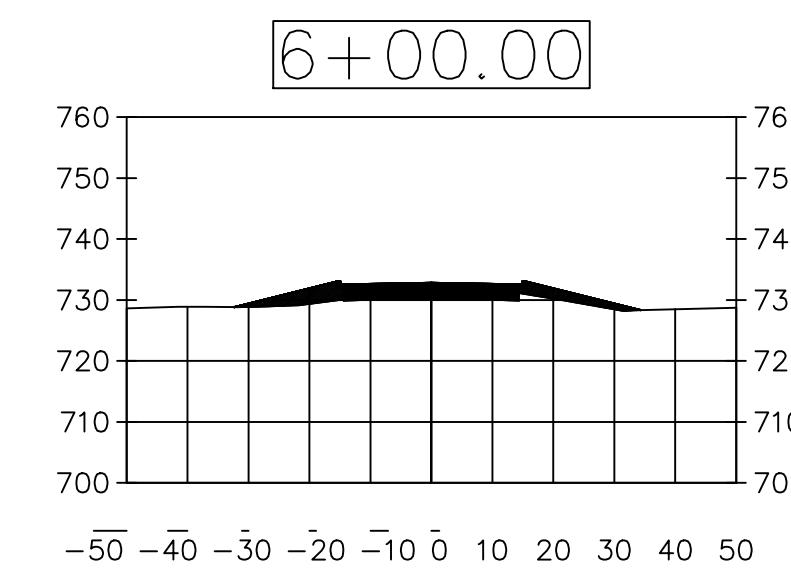
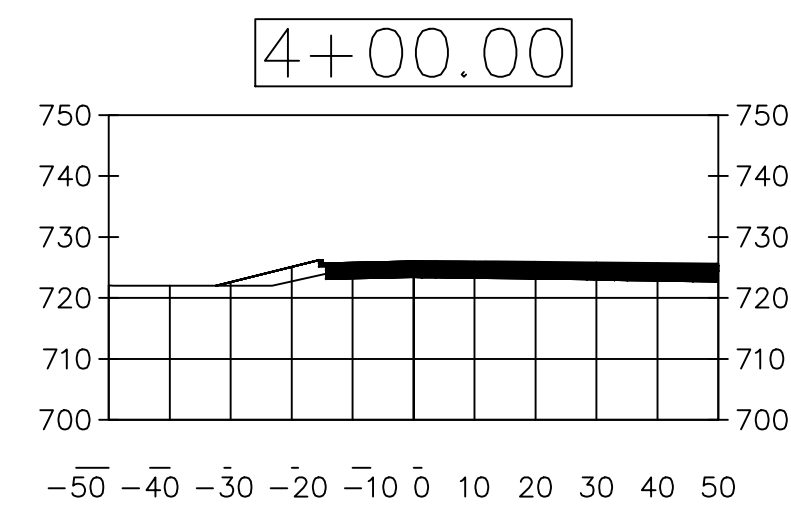
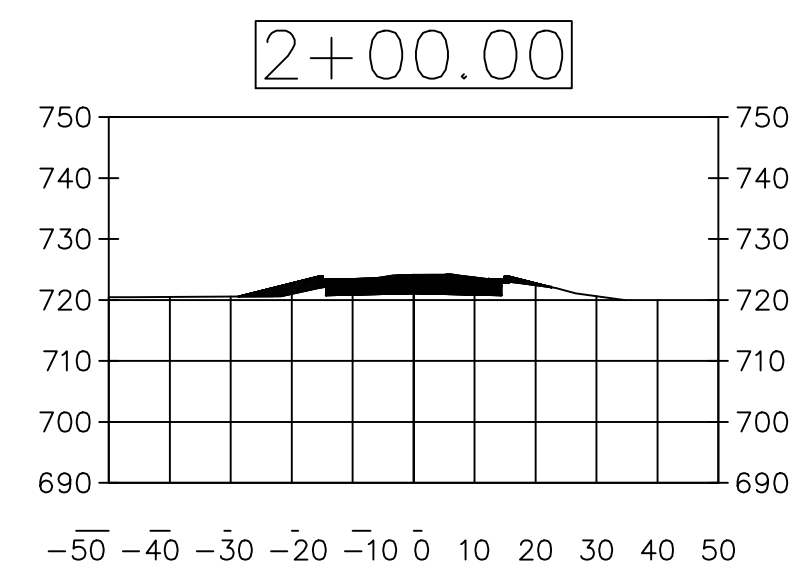
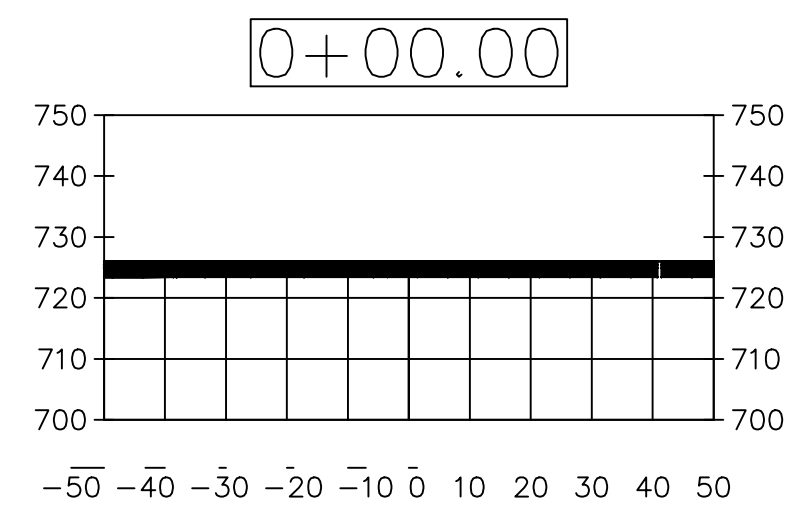
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**TRUCK REROUTING AND  
 PAVEMENT REPLACEMENT**

SHEET NAME  
 TYPICAL CROSS SECTIONS

SHEET NO.  
**W.03B**



# 280TH STREET

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	APH
REVISION:	

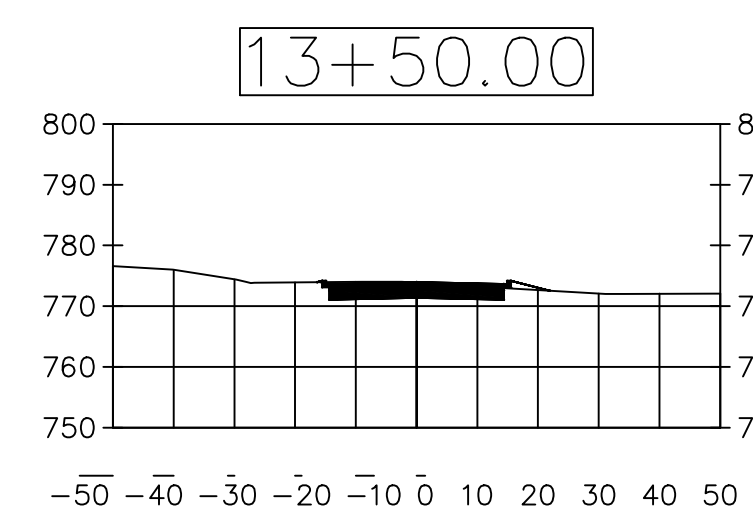
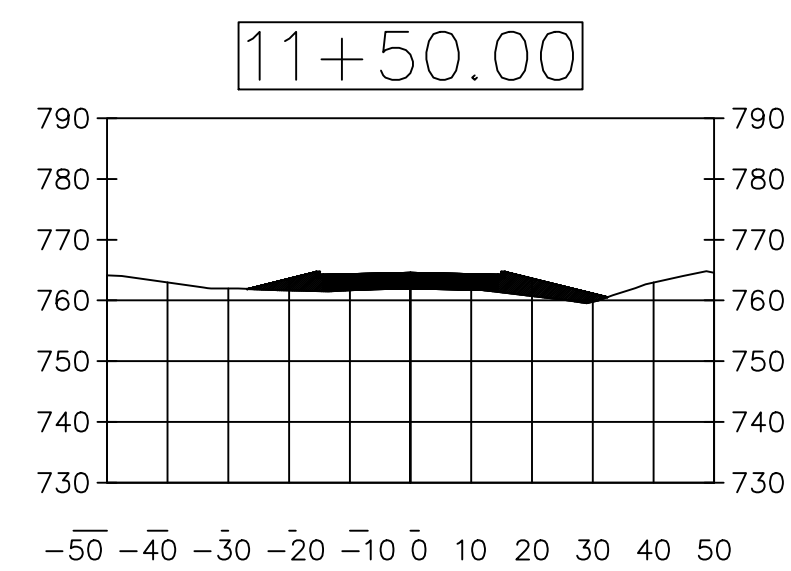
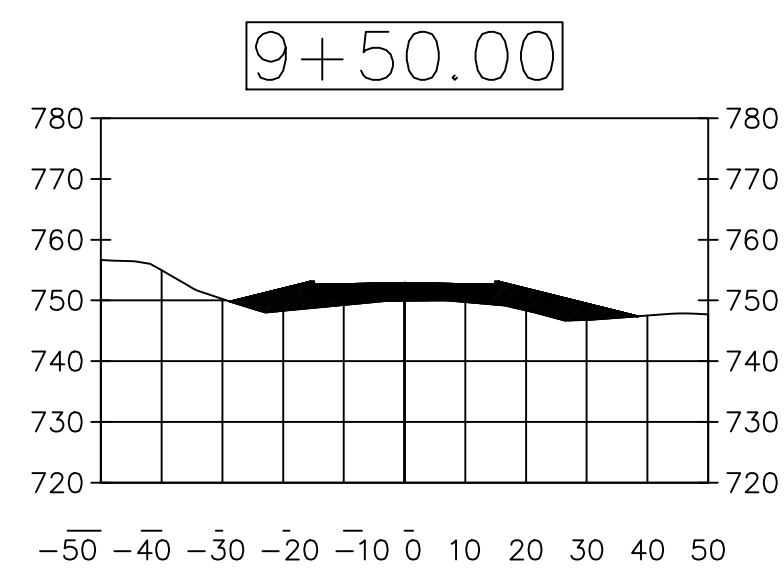
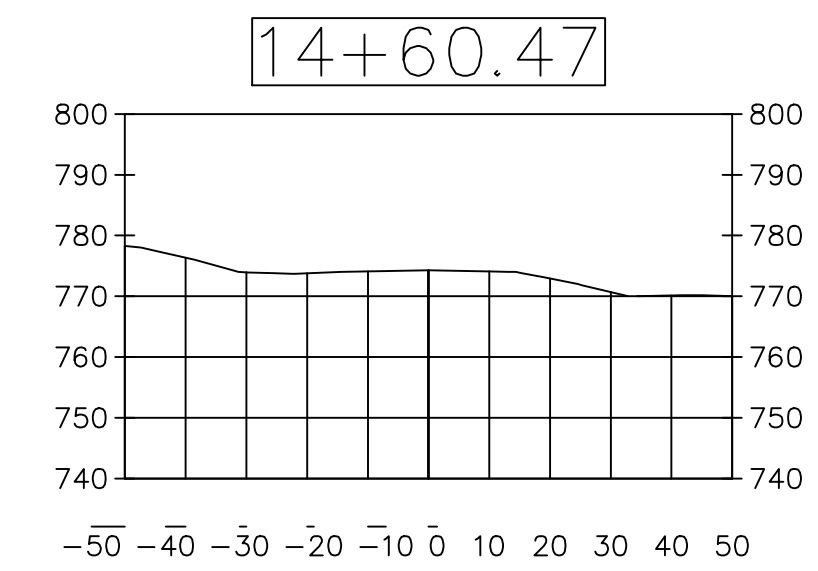
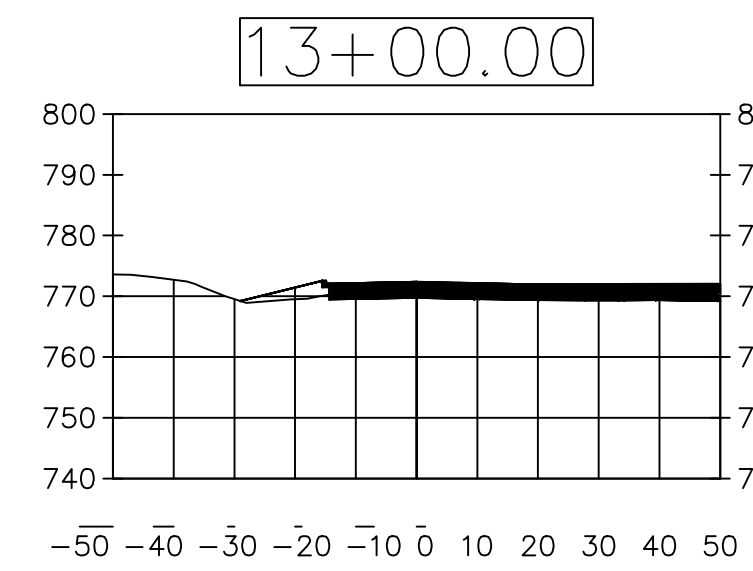
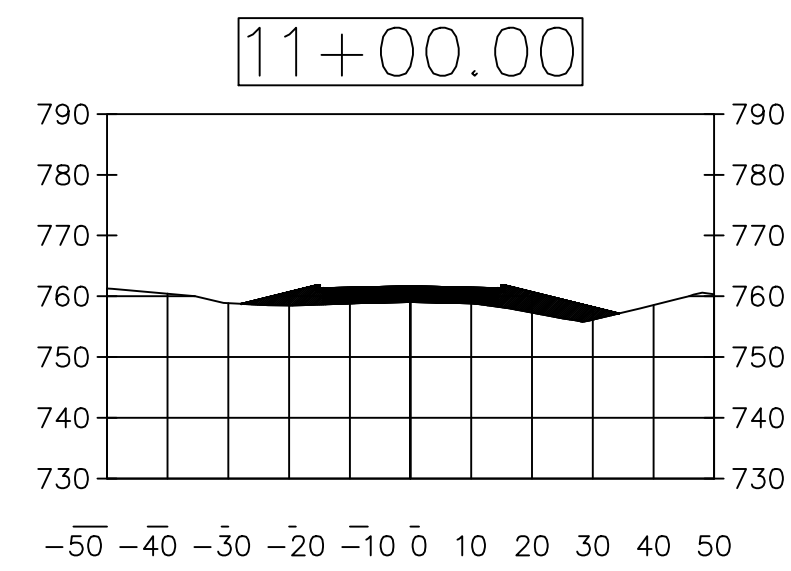
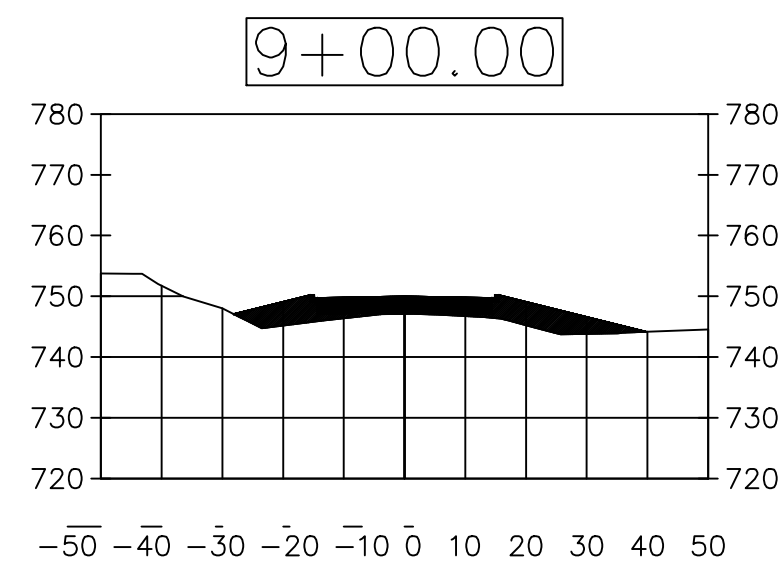
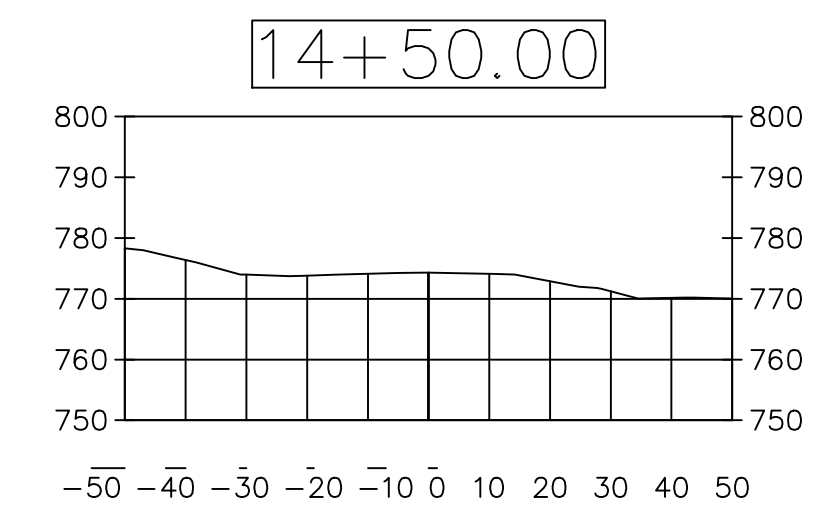
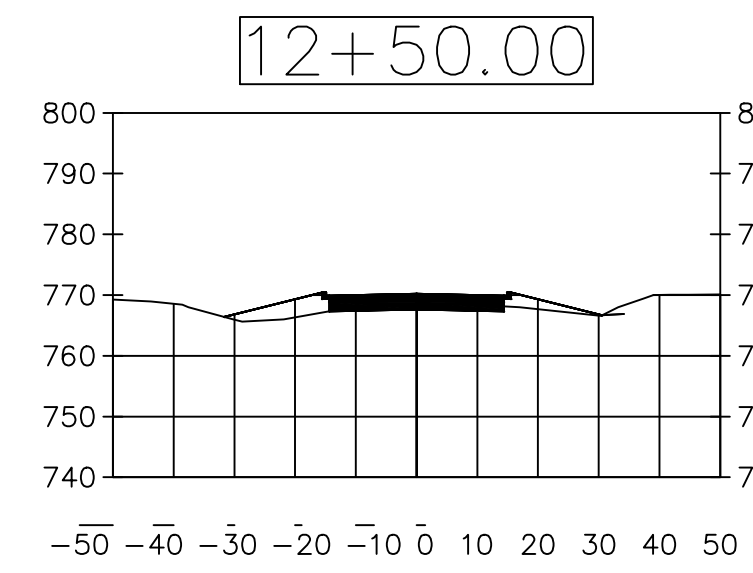
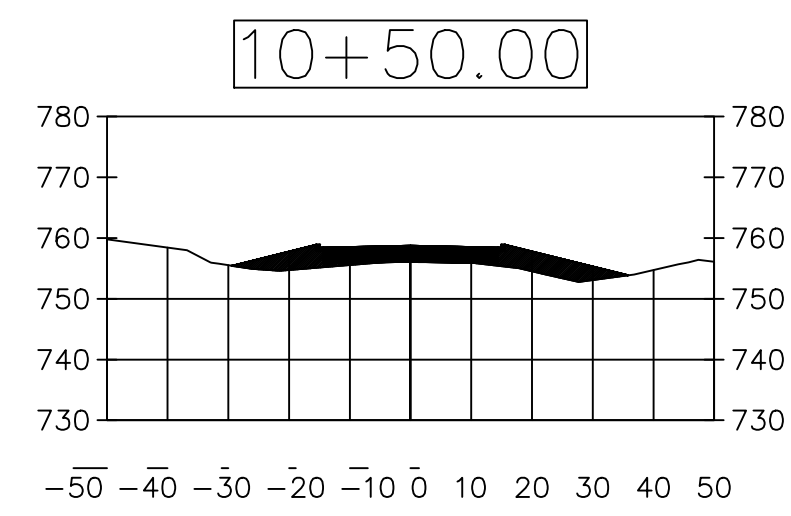
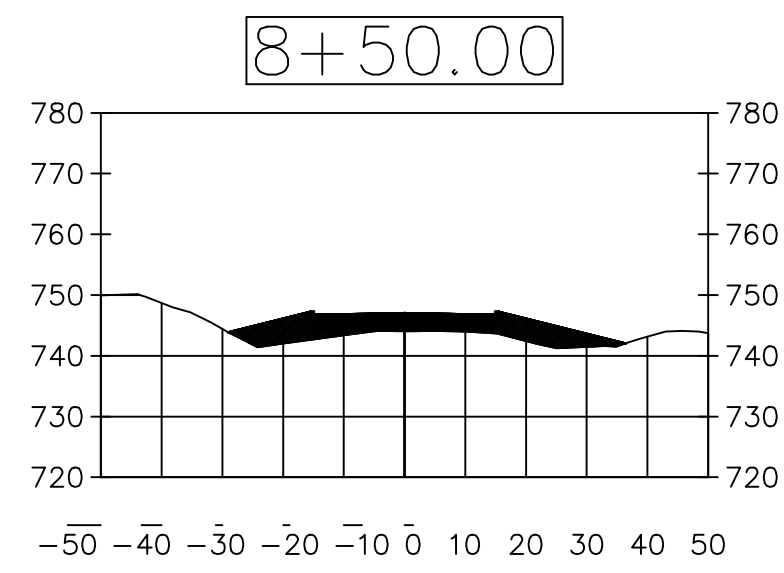
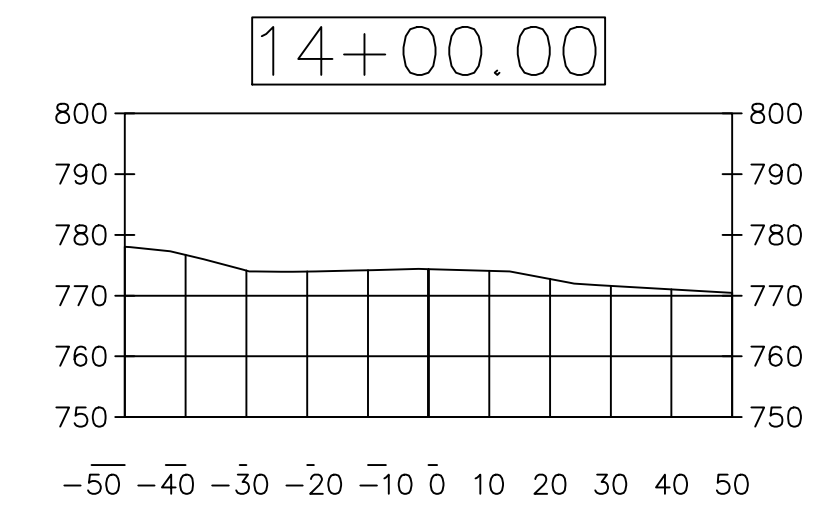
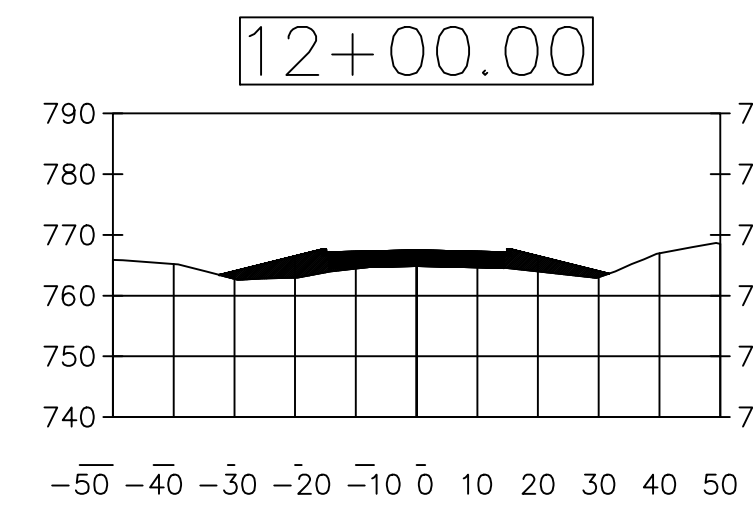
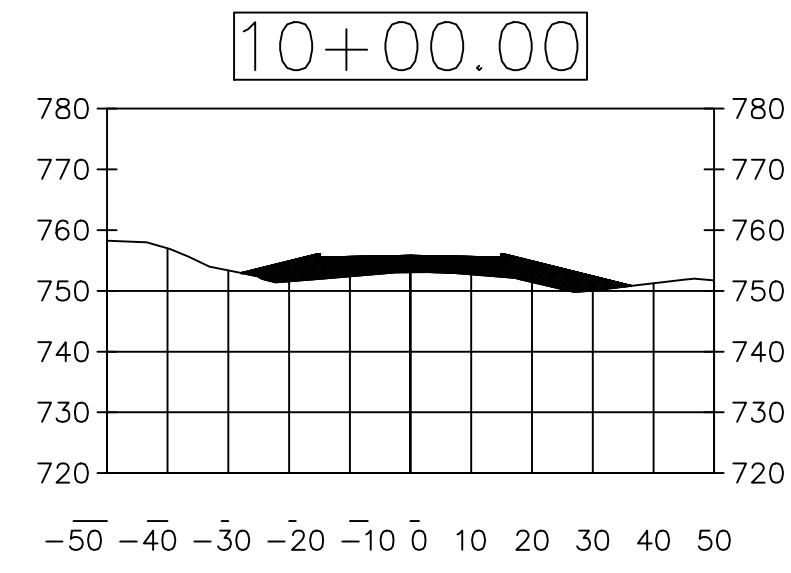
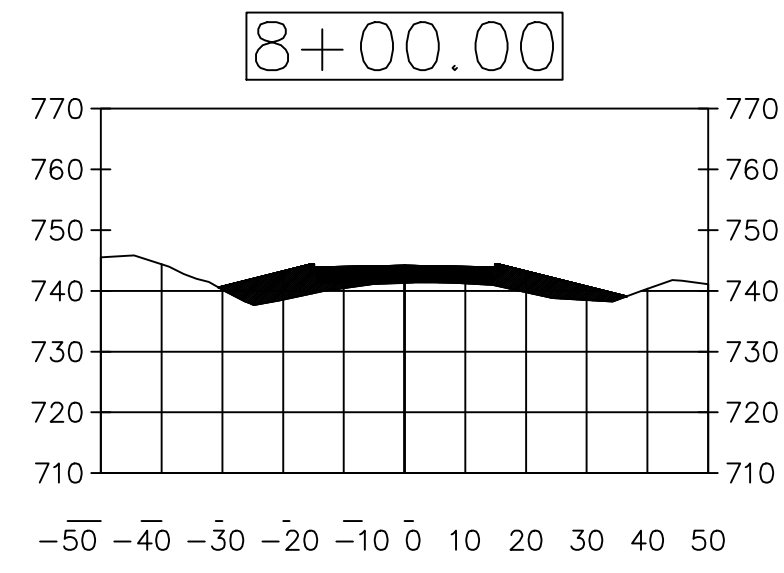
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## TRUCK REROUTING AND PAVEMENT REPLACEMENT

SHEET NAME  
 TYPICAL CROSS SECTIONS

SHEET NO.  
**W.04B**



# 280TH STREET

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	APH
REVISION:	

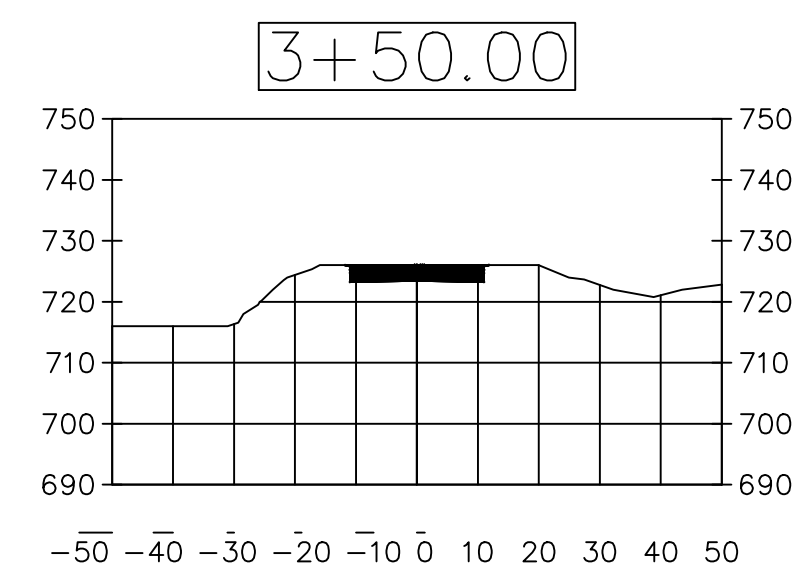
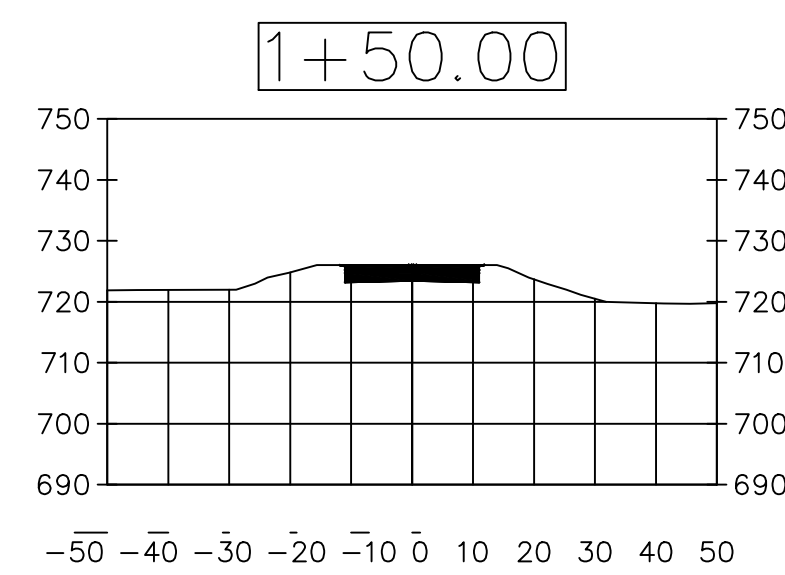
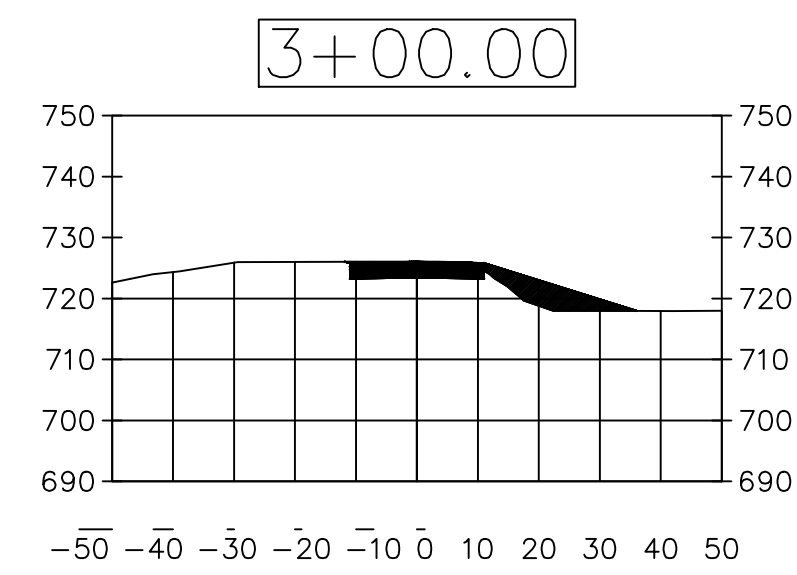
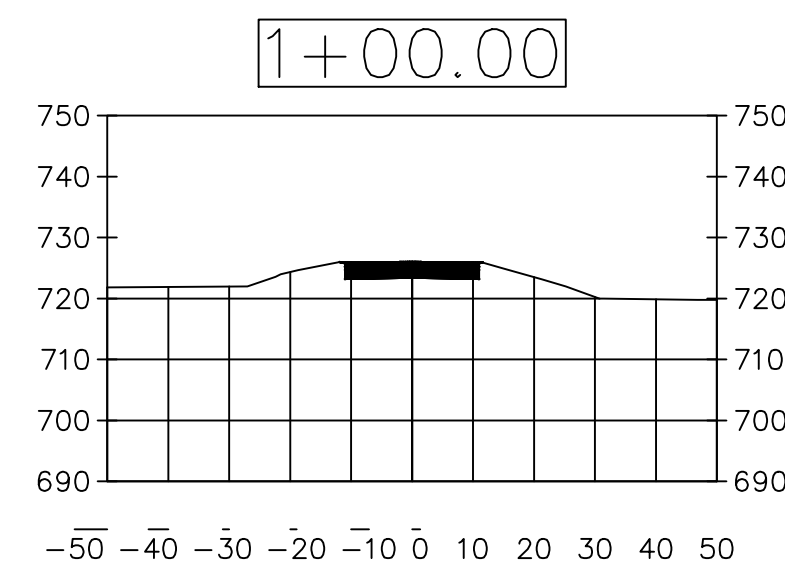
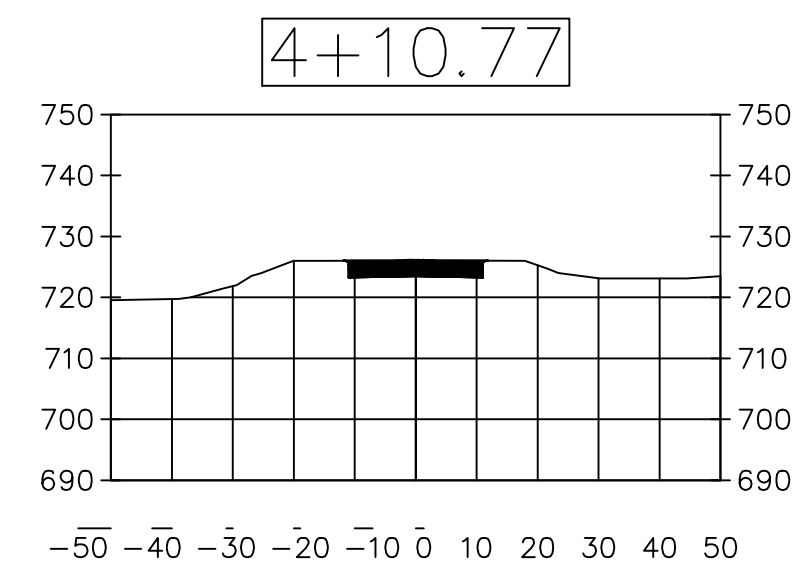
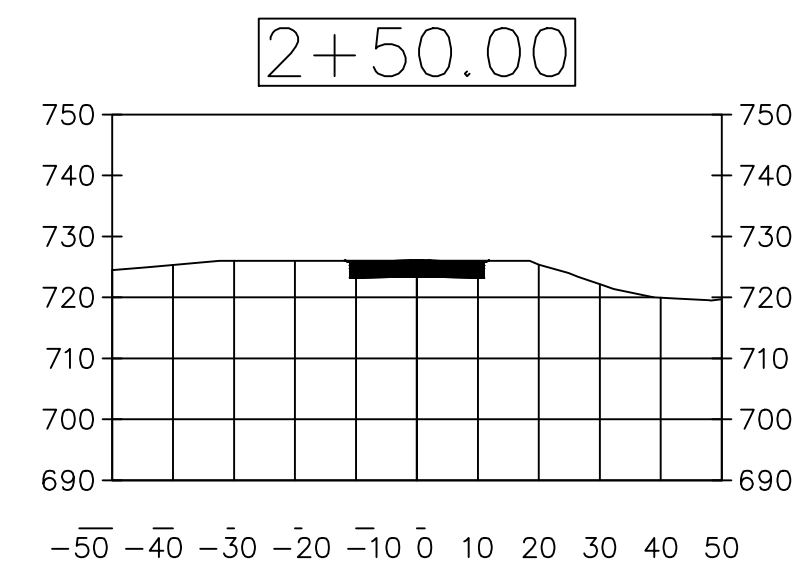
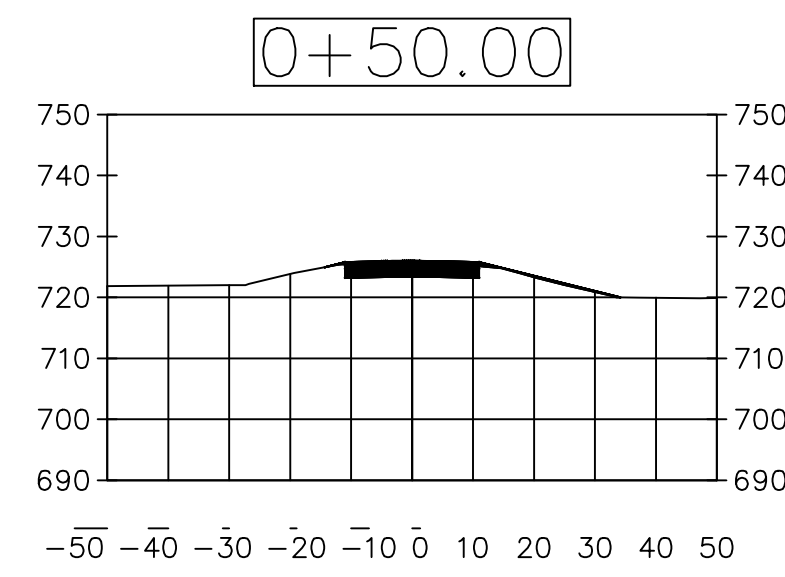
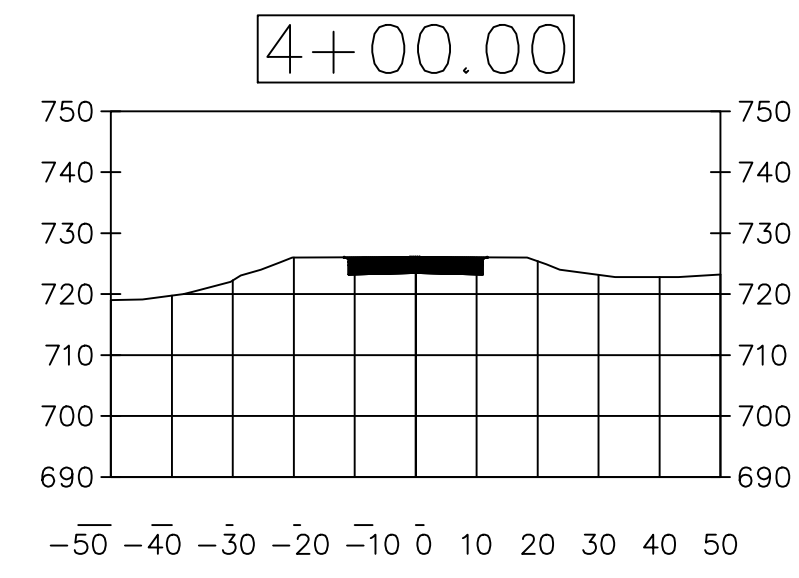
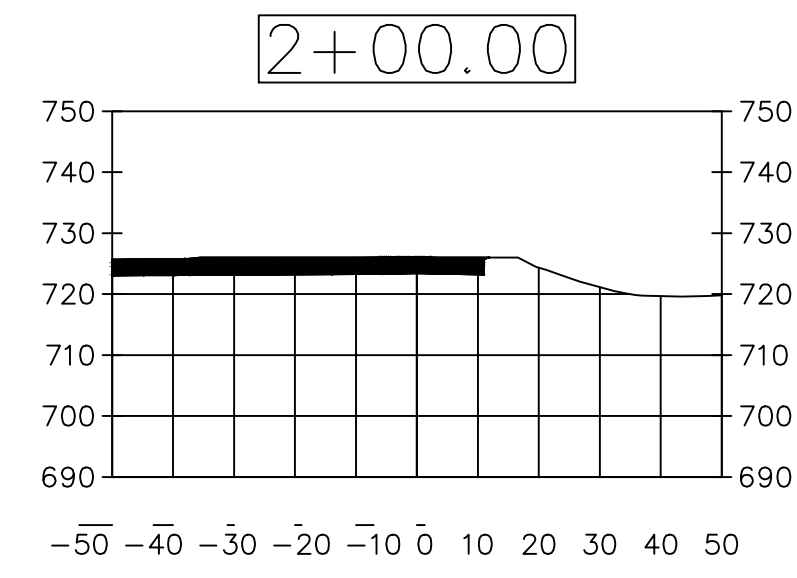
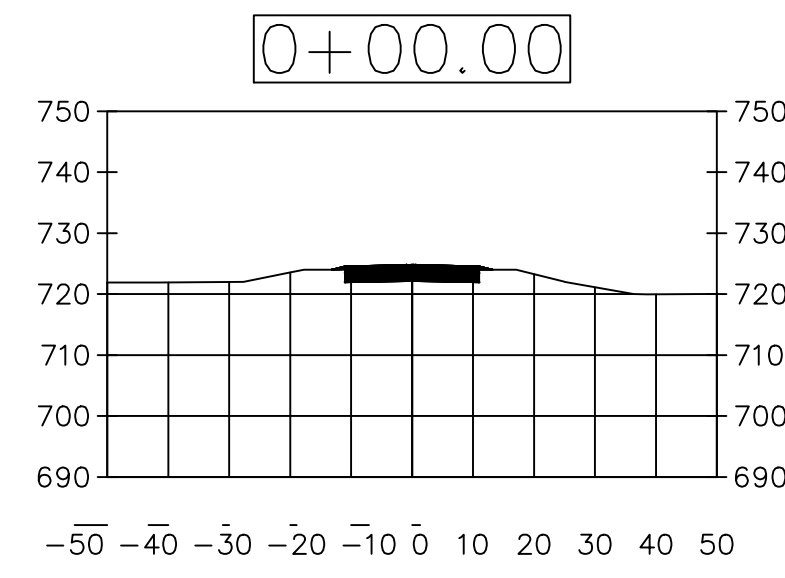
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 4105 SEAMANS CENTER FOR THE  
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 103 S CAPITOL ST  
 IOWA CITY, IOWA 52242  
 PHONE: 319.335.5647  
 FAX: 319.335.5660  
 EMAIL: civil-hawks@iowa.edu

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## TRUCK REROUTING AND PAVEMENT REPLACEMENT

SHEET NAME  
 TYPICAL CROSS SECTIONS

SHEET NO.  
**W.05B**



# BAKER AVE

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	APH
REVISION:	

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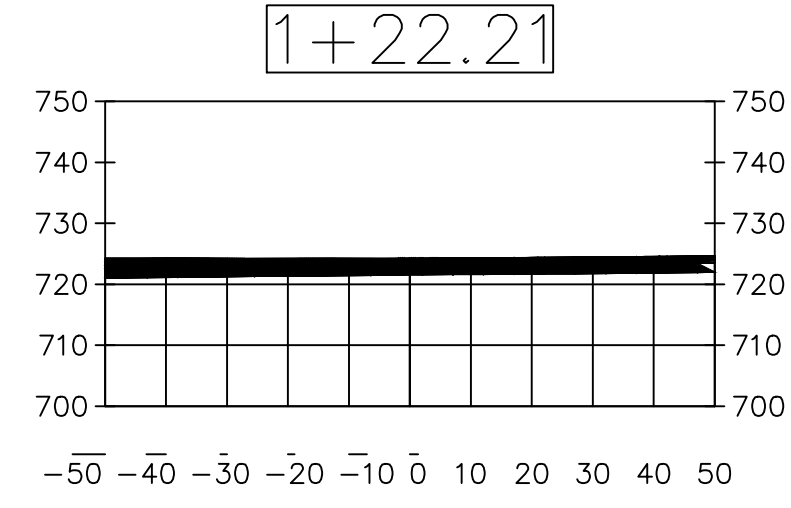
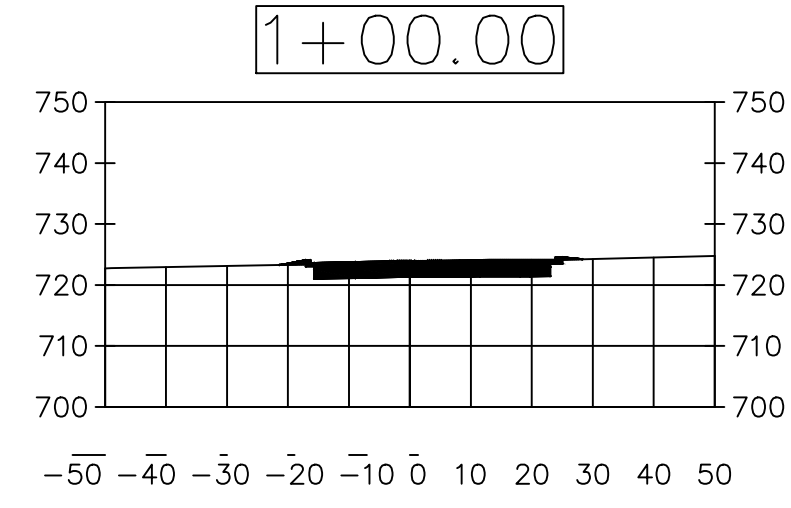
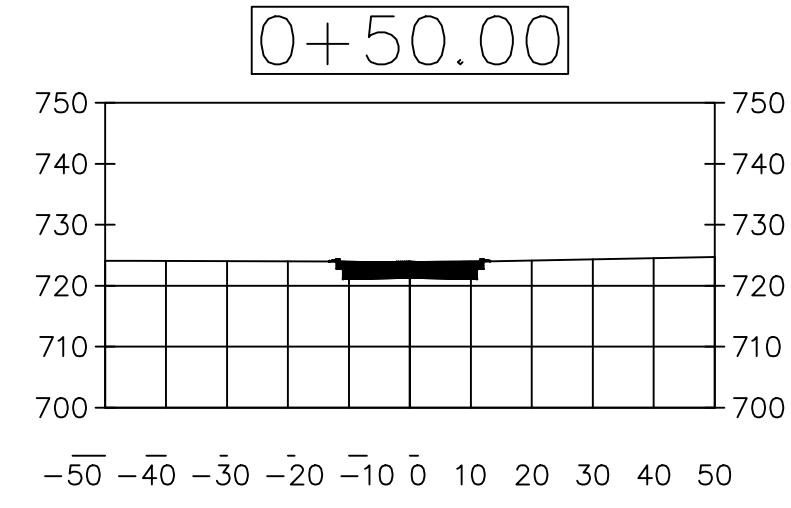
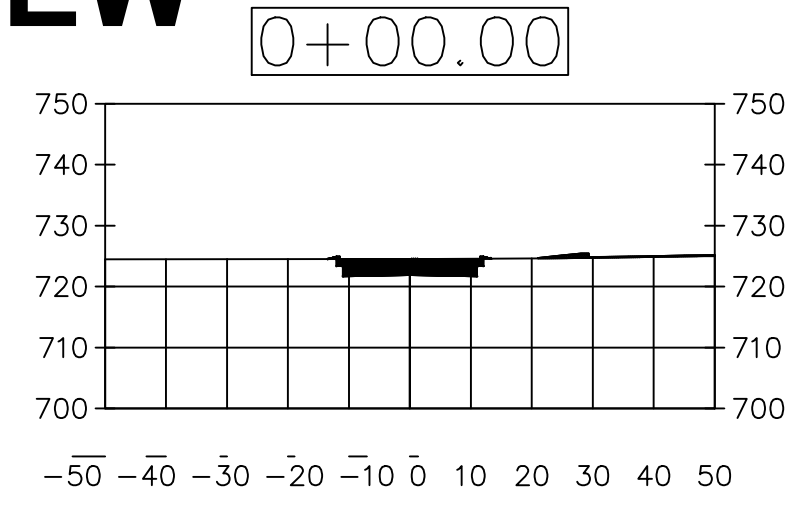
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## TRUCK REROUTING AND PAVEMENT REPLACEMENT

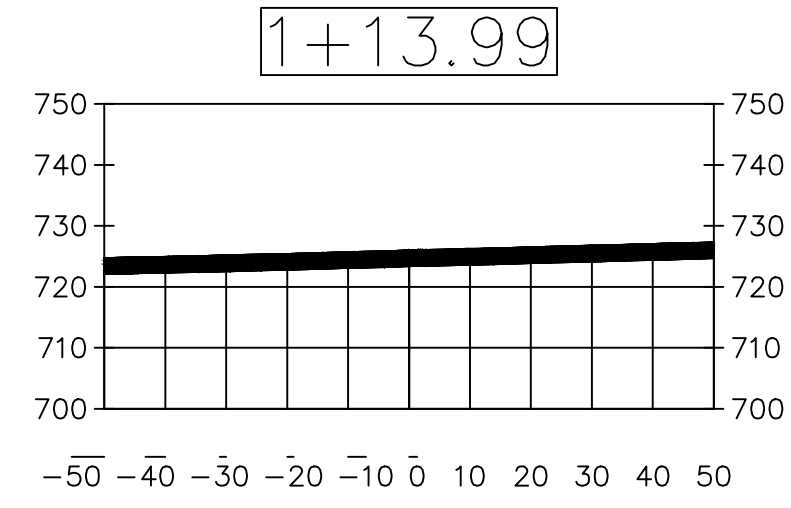
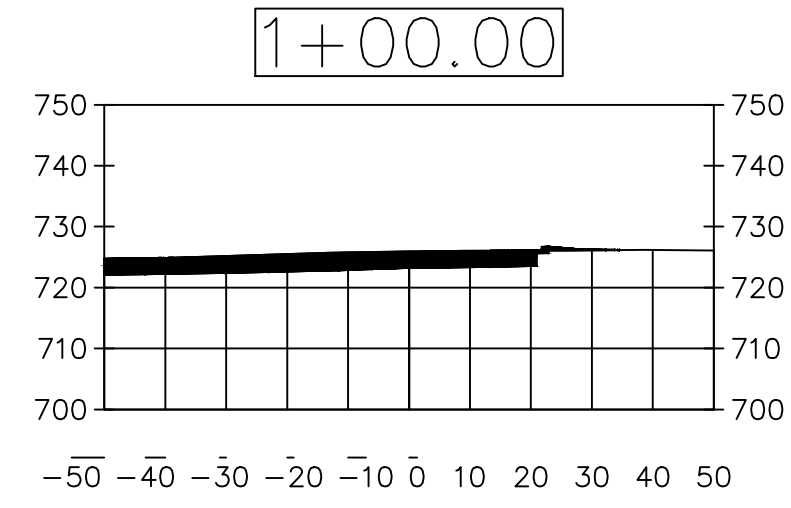
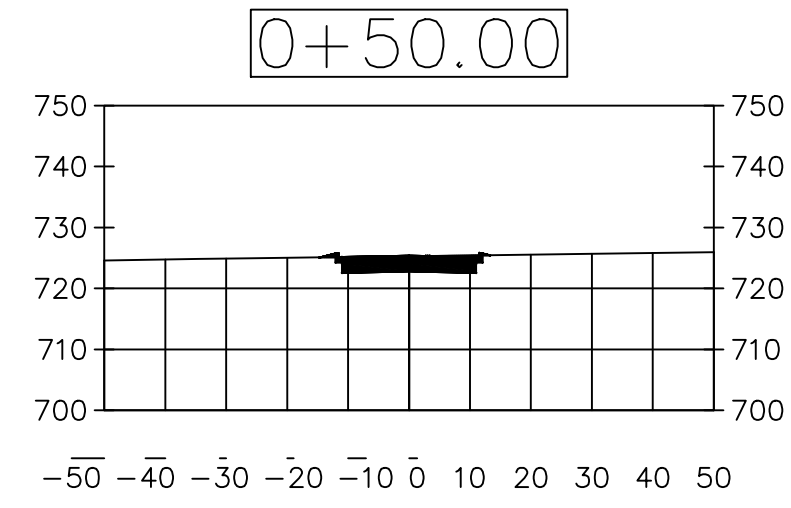
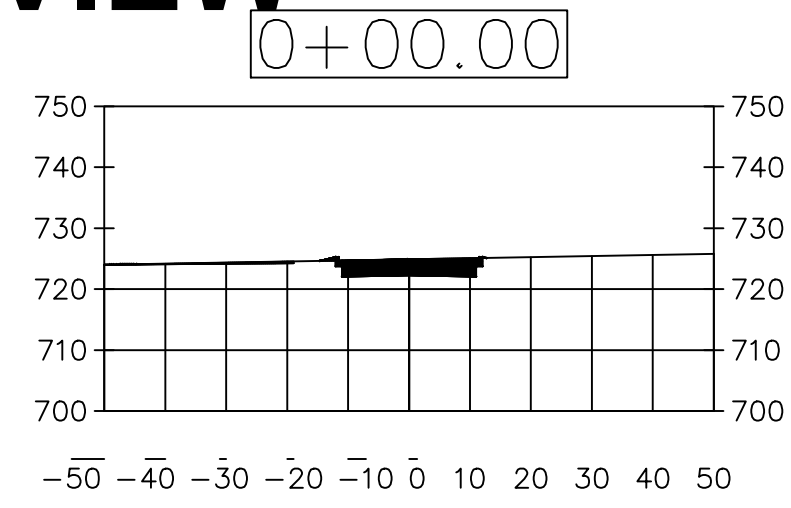
SHEET NAME  
 TYPICAL CROSS SECTIONS

SHEET NO.  
**W.06B**

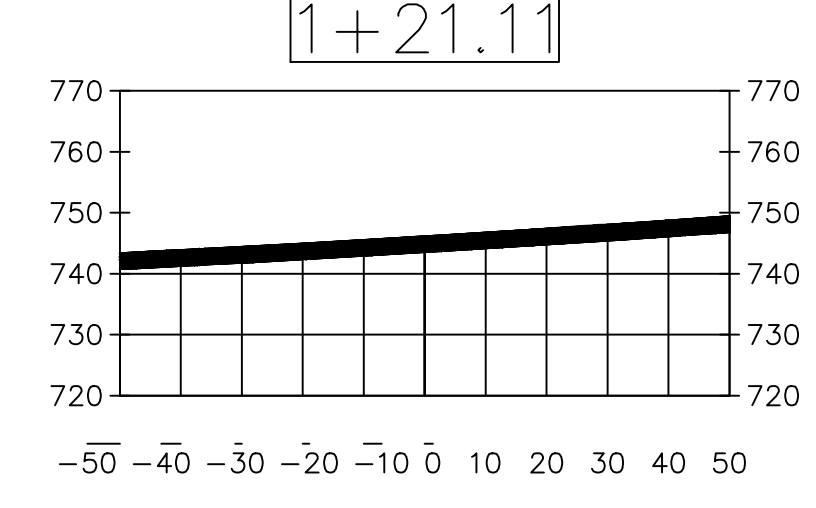
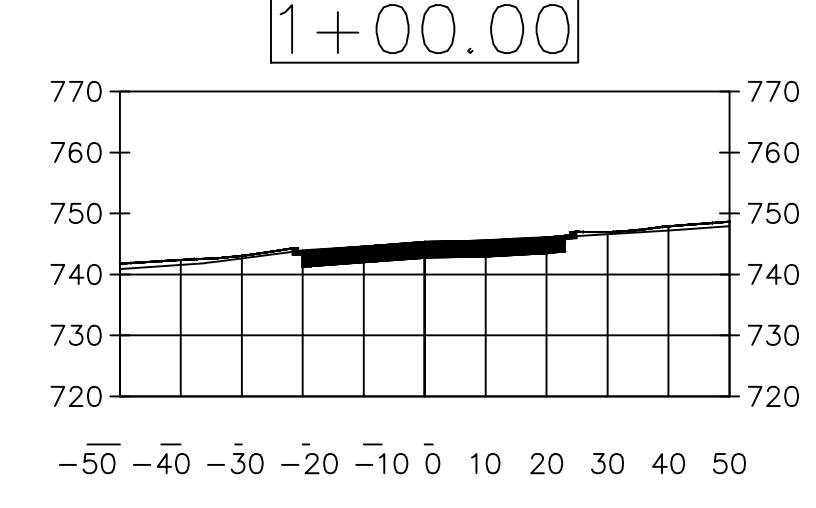
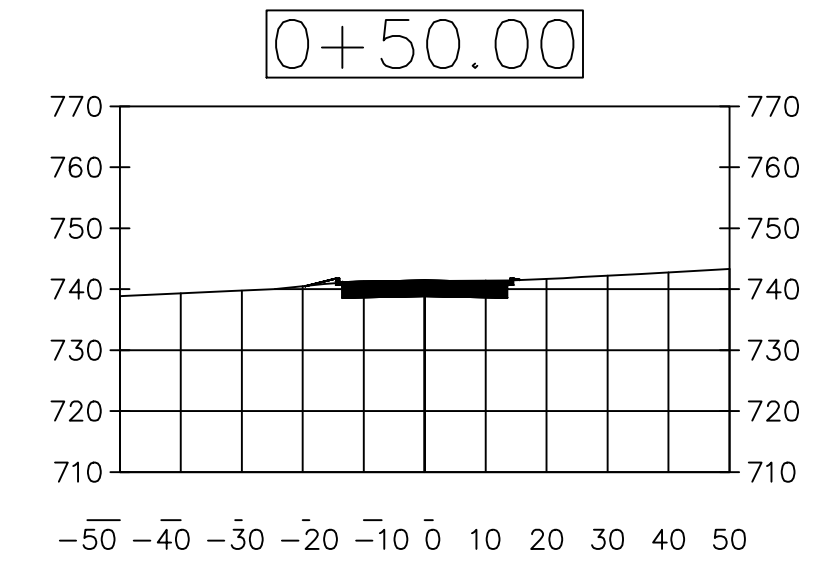
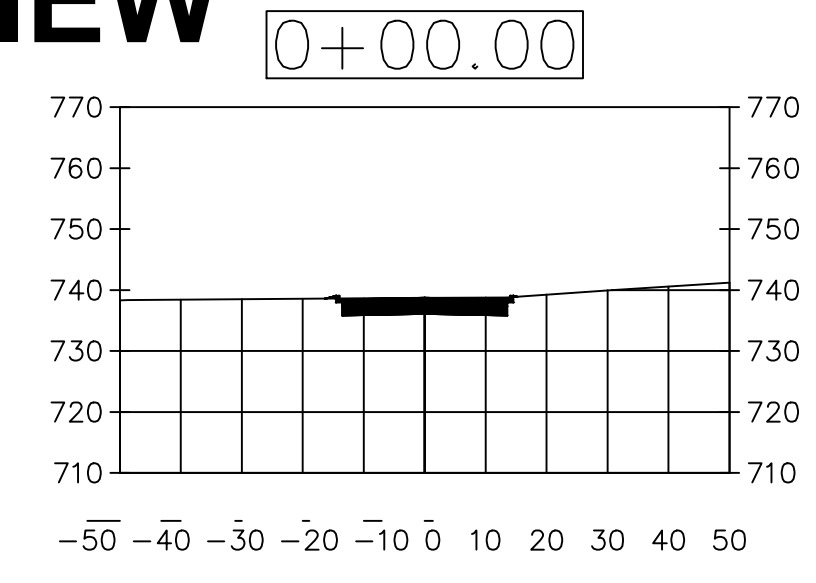
# HOOVER BLVD. LEFT VIEW



# HOOVER BLVD. RIGHT VIEW



# HOOVER BLVD. EAST VIEW



PROJECT: CEE: 4850  
 DATE: 05/08/2026  
 DRAWN BY: APH  
 REVISION:

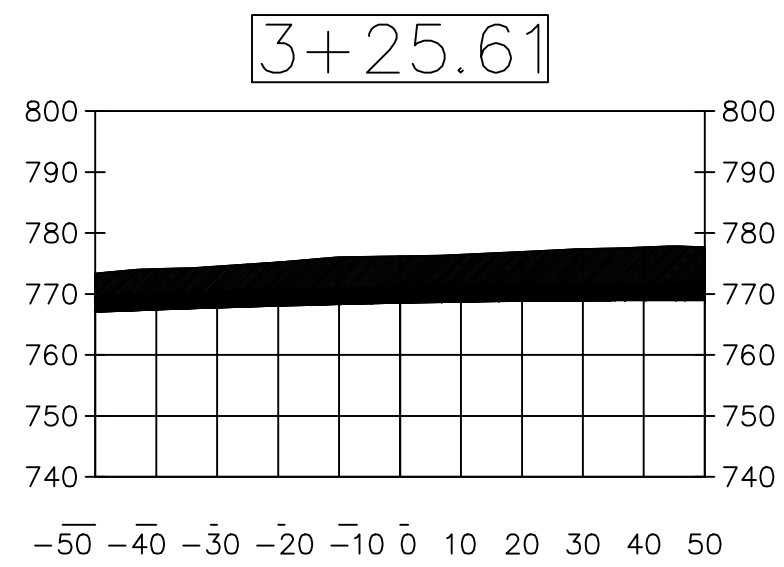
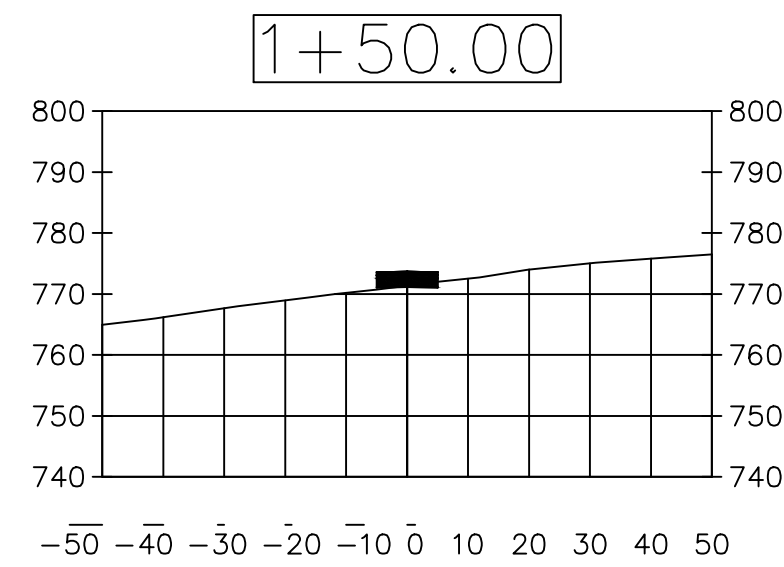
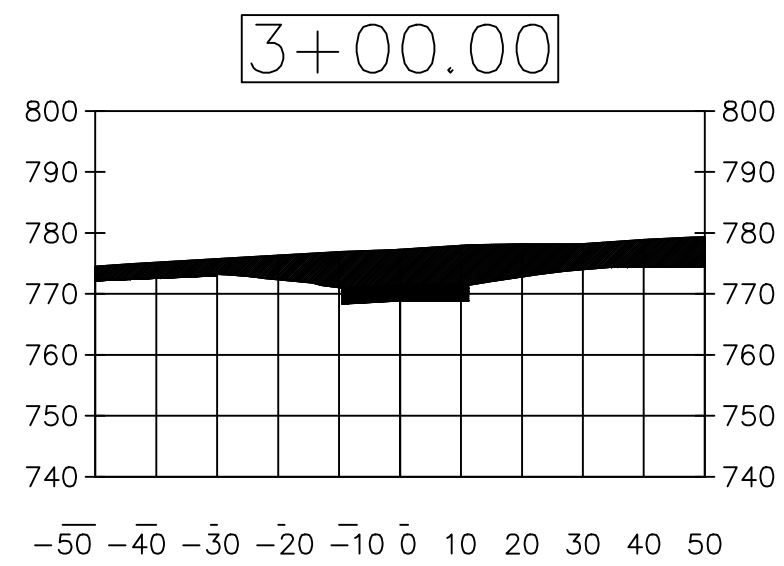
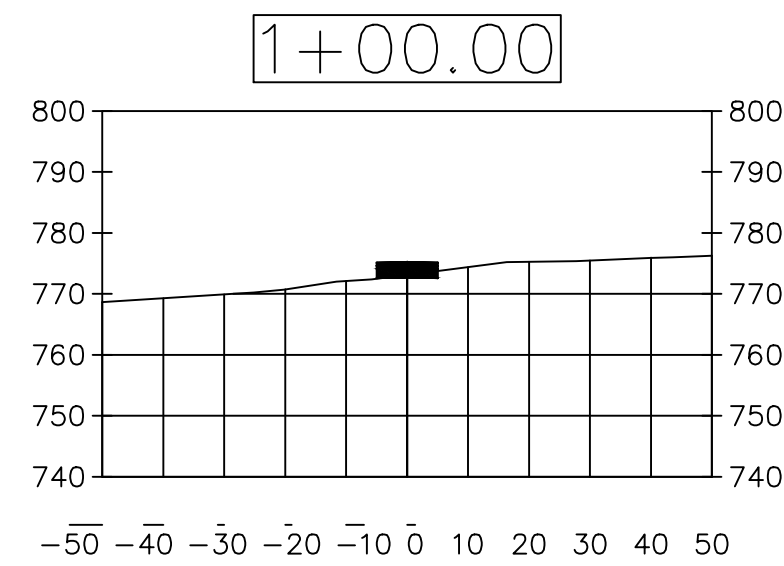
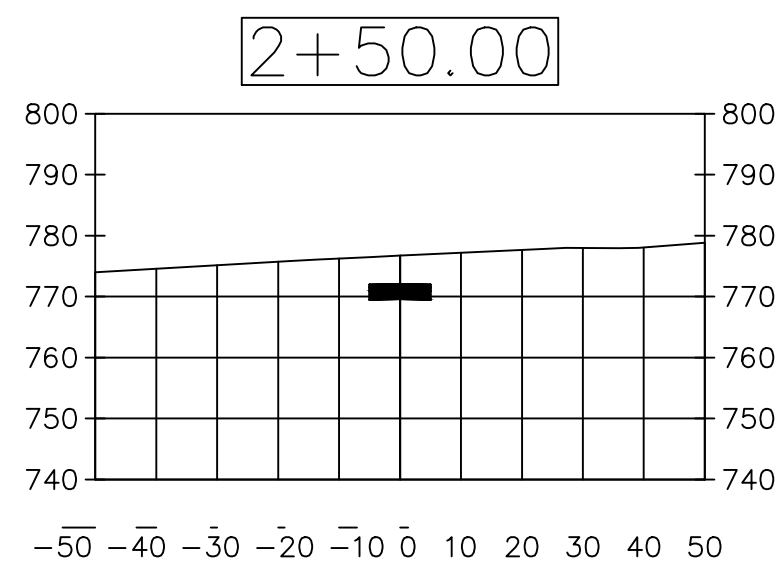
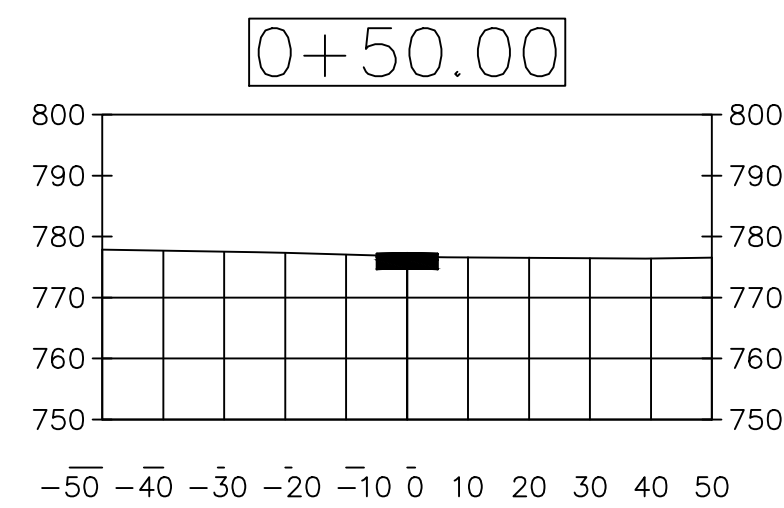
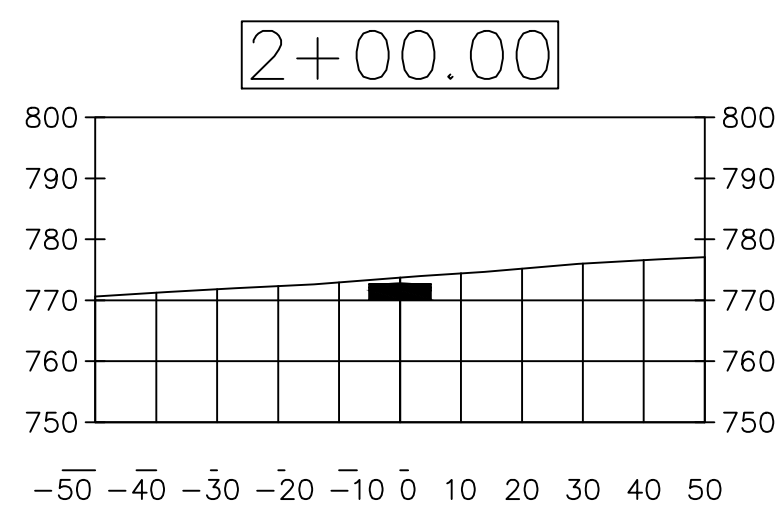
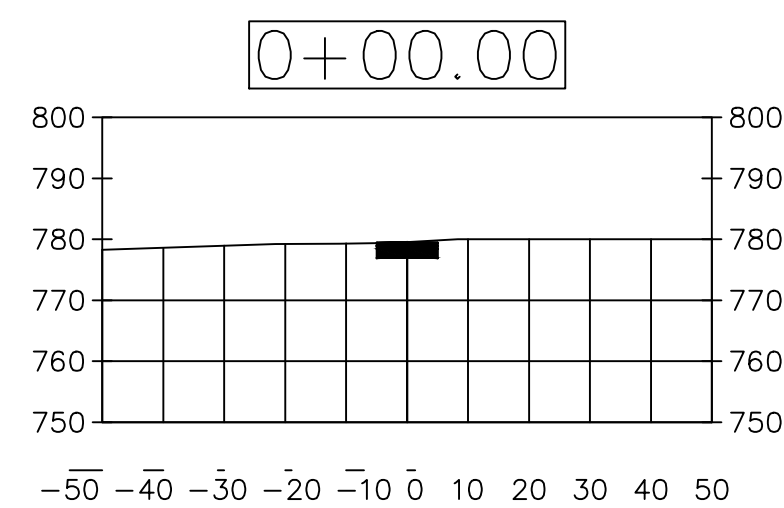
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**TRUCK REROUTING AND  
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SHEET NAME  
 TYPICAL CROSS  
 SECTIONS

SHEET NO.  
**W.07B**



# FARM HOUSE DRIVEWAY

PROJECT:	CEE: 4850
DATE :	05/08/2026
DRAWN BY:	APH
REVISION:	

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## TRUCK REROUTING AND PAVEMENT REPLACEMENT

SHEET NAME  
 TYPICAL CROSS SECTIONS

SHEET NO.  
**W.08B**