LETTING DATE T.B.D. 2014

I-74 CORRIDOR GRADING
IM-74-1(161)4--13-82

SCOTT Co.

Iowa Department of Transportation

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

INTERSTATE ROAD SYSTEM
SCOTT COUNTY
UNKNOWN PAVEMENT- GRADE AND REPLACE

I-74 FROM 12TH AVE IN MOLINE TO NORTH OF LINCOLN ROAD IN BETTENDORF

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

REVISIONS

	TOTAL 99
PROJECT IDENTIFICATION NUMBER	
03-82-074-010-03	
PROJECT NUMBER	
IM-74-1(161)4--13-82	
R.O.W. PROJECT NUMBER	
IM-74-1(144)5--13-82	

MILEAGE SUMMARY

105-1
09-27-94

Div.	Location	Lin. Ft.	Miles
	Sta. 6746+86.92 to Sta. 6838+56.70	9169.78	
	Deduct River Bridge Sta. 6746+86.92 to Sta. 6781+23.05	3436.13	
	Total Length of Grading and Paving Project (Division 1)	5733.65	1.086

INDEX OF SHEETS

105-3
10-18-05

* COLOR PLAN SHEETS
** TO BE INSERTED AT LATER DATE

For Project Location Map
Refer to Sheet No. A.2

INDEX OF SEALS

IN PROGRESS

SHEET NO.	NAME	TYPE
A.1	Je[illegible]	PRIMARY SIGNATURE BLOCK
G.1	Cov[illegible]dis	Reference Ties/Benchmarks
Q.[illegible]	Kipkoech K. Chepkoit	Geotechnical Design

04-30-02 101-5

DESIGN DATA URBAN

2015 AADT	TBD	V.P.D.
2035 AADT	99,800	V.P.D.
2035 DHV	9850	V.P.H.
TRUCKS	5	%
Total Design ESALs	--	

LICENSED PROFESSIONAL ENGINEER IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature ______ Date

Printed or Typed Name

My license renewal date is December 31, ______

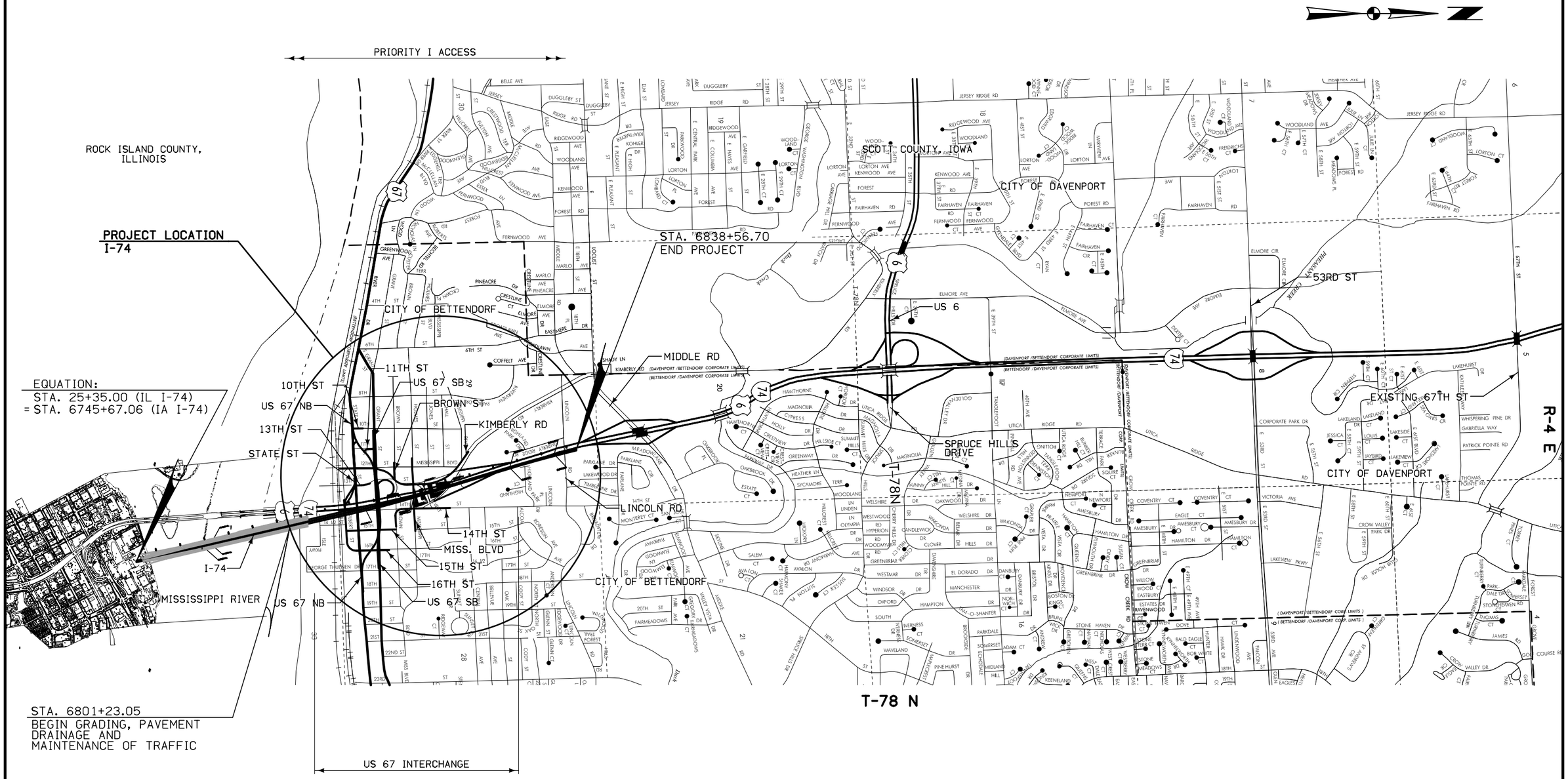
Pages or sheets covered by this seal: ______

IN PROGRESS

MODIFIED PLANS

Subject to change by final design.

MODIFIED 100% PLANS
Date: 12-17-2012



PROJECT LOCATION

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **A.2**

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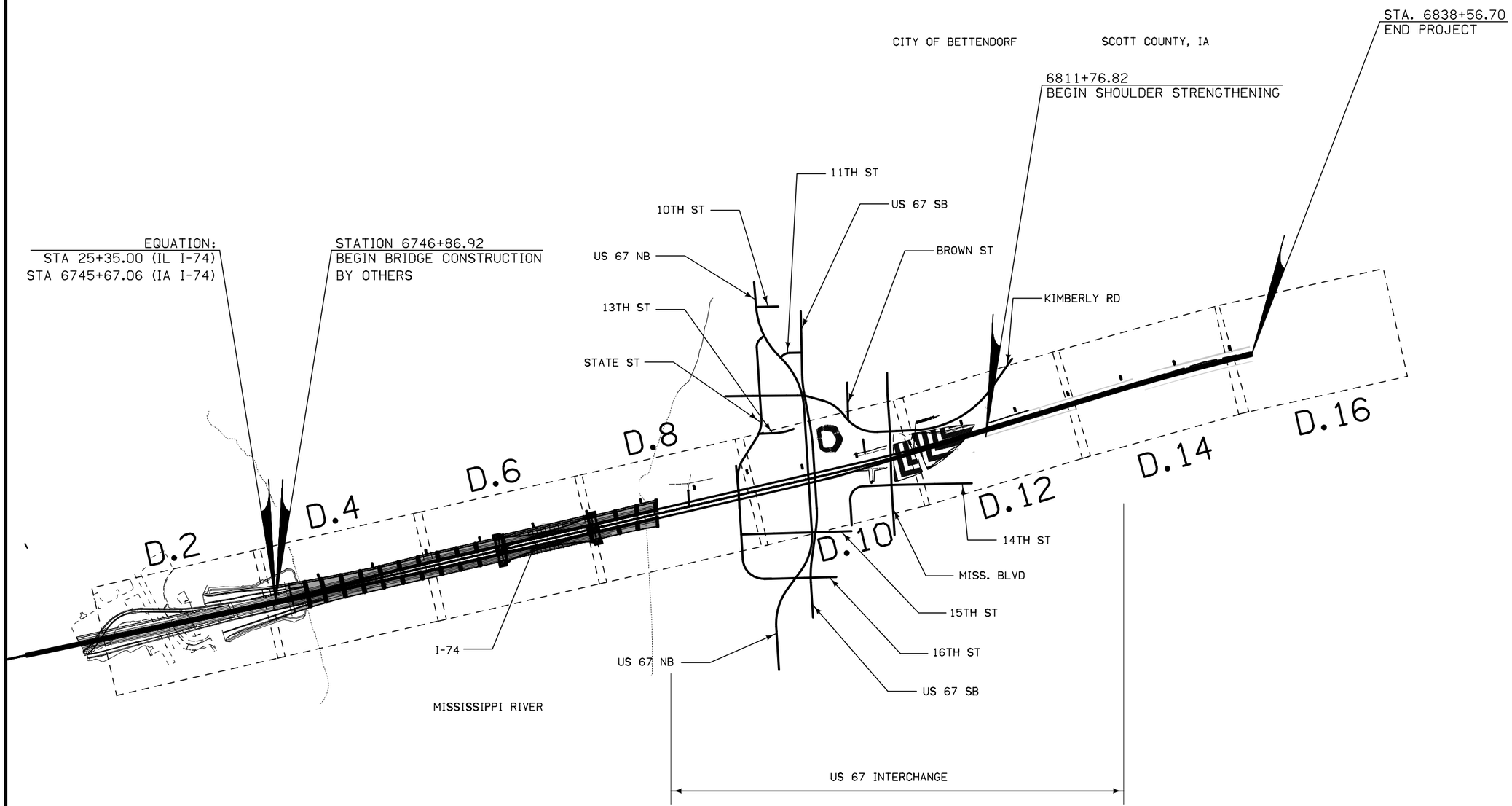

LOCATION MAP SCALE
0 0.25 0.5
Miles

MAINLINE KEY MAP

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **A.3**

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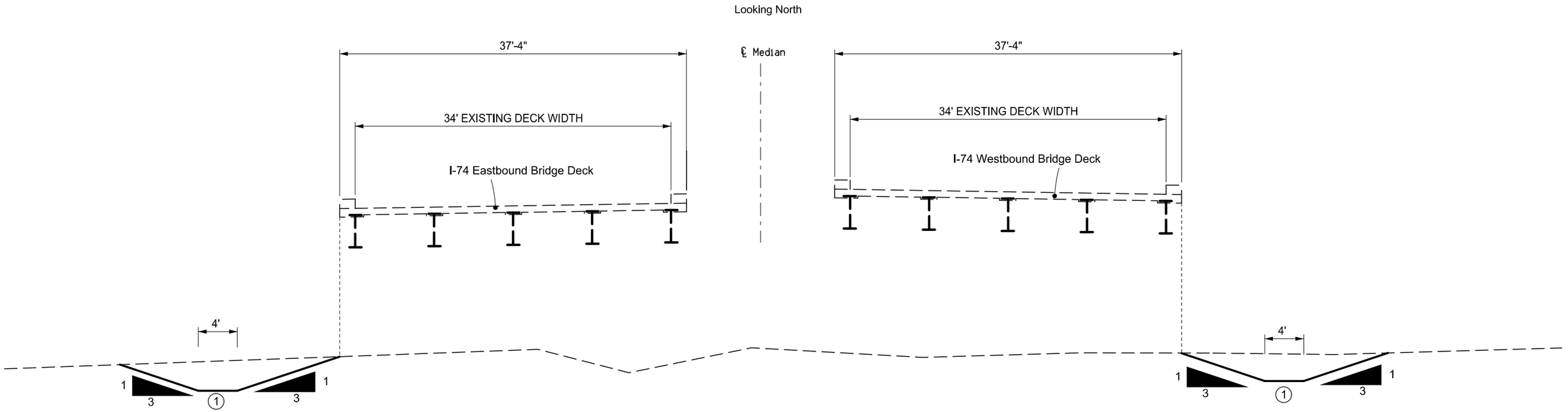


I-74 GRADING TYPICAL

① Grade per the K sheets, M sheets, and Cross Sections.

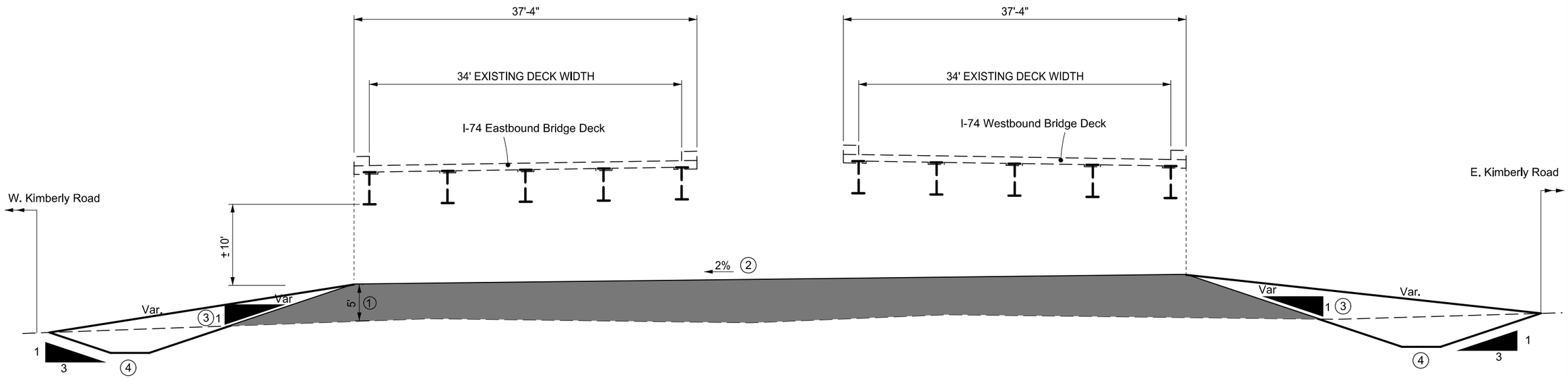
② SEE BRFIM-074-1(197)5--05-82
BRFIM-074-1(198)5--05-82
BRFIM-074-1(199)5--05-82
BRFIM-074-1(200)5--05-82

Location		
Road Identification	Station To Station	
I-74	6745+67.06 ②	6781+00 ②
I-74	6798+20	6802+50

Ditch-2

Location		
Road Identification	Station To Station	
I-74	6803+50	6811+50

Looking North



① Compact soil per specifications 5' Mininum thickness underneath West edge of East Bound bridge deck.

② Place soil at 2% slope to underneath edge of bridge deck.

③ See cross sections for side slopes.

④ See cross sections for Ditch Locations.

I-74 GRADING TYPICAL

Compacted Soil Per Specificatons

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER B.2	

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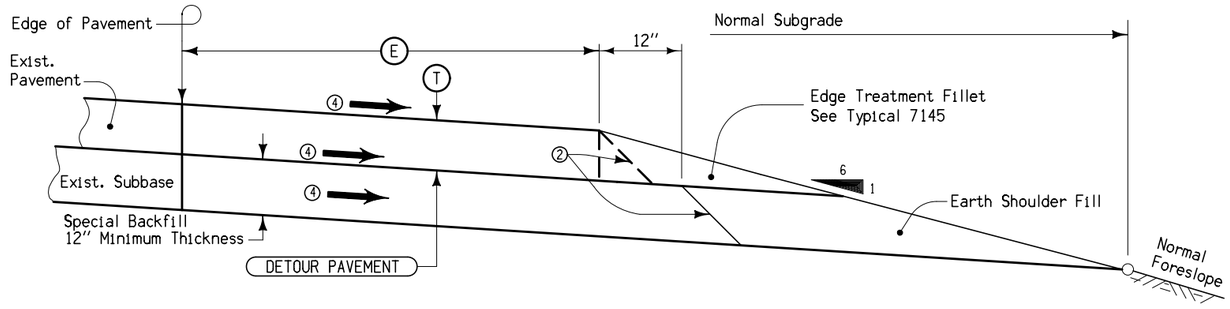
7153
MODIFIED

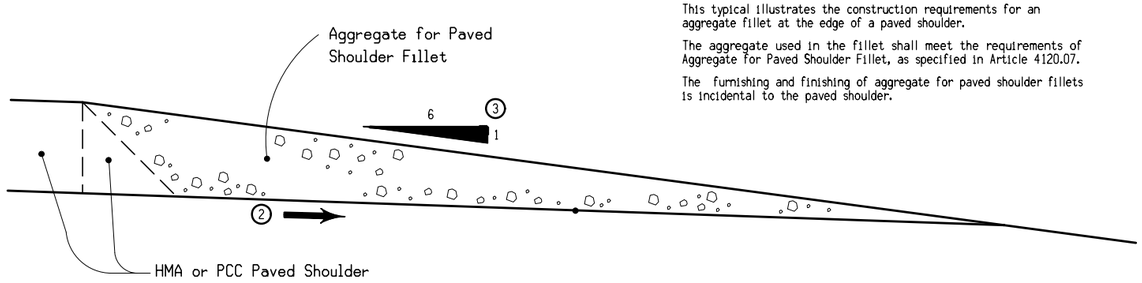


LOCATION			SIDE	DIMENSIONS				QUANTITIES	
				(T)	(T)	(E)	LENGTH	EARTH SHOULDER FILL	
ROAD IDENTIFICATION	STATION TO STATION			HMA Inches	PCC Inches	Feet	Sta.	HMA(1) Cu. Yds.	PCC(1) Cu. Yds.
I-74	6812+58.02	6826+01.27	LT	10.5	8.5	6.9'-16.0'	13.40	29	25
I-74	6811+76.82	6820+34.50	RT	10.5	8.5	0.0'-21.1'	8.57	29	25

Notes:
(1) Quantities are per Station per side. Not a Bid Item.
(2) Approximately 1:1 Slope.
(3) Bid items.
(4) Match Existing Slope.

TYPICAL SECTION
Shoulder Strengthing Alternates (HMA or PCC)

7145
04-15-03



Notes:

This typical illustrates the construction requirements for an aggregate fillet at the edge of a paved shoulder.

The aggregate used in the fillet shall meet the requirements of Aggregate for Paved Shoulder Fillet, as specified in Article 4120.07.

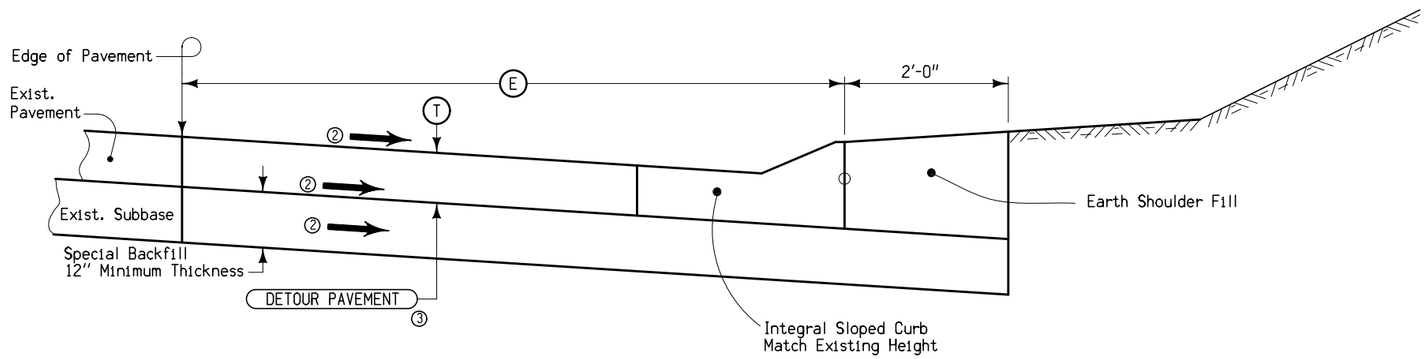
The furnishing and finishing of aggregate for paved shoulder fillets is incidental to the paved shoulder.

LOCATION			SIDE	QUANTITIES (1)	
				AGGREGATE FOR PAVED SHOULDER FILLET	
ROAD IDENTIFICATION	STATION TO STATION			PCC Tons	HMA Tons
I-74	6812+58.02	6826+01.27	LT	1.6	2.1
I-74	6811+76.82	6820+34.50	RT	1.0	1.3

(1) Not a bid item. Quantities are per station per side.
(2) Match slope of under side of shoulder pavement.
(3) 6:1 Slope minimum.

AGGREGATE FOR PAVED SHOULDER FILLET

7154
MODIFIED



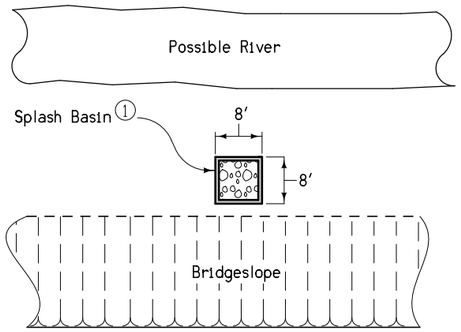
LOCATION			SIDE	DIMENSIONS				QUANTITIES	
				(T)	(T)	(E)	LENGTH	EARTH SHOULDER FILL	
ROAD IDENTIFICATION	STATION TO STATION			HMA Inches	PCC Inches	Feet	Sta.	HMA(1) Cu. Yds.	PCC(1) Cu. Yds.
I-74	6827+61.69	6838+56.70	LT	10.5	8.5	4.6'-16.5'	10.95	29	25
I-74	6826+79.43	6838+03.72	RT	10.5	8.5	3.5'-11.9'	11.24	29	25

Notes:
(1) Quantities are per Station per side. Not a Bid Item.
(2) Match Existing Slope.
(3) Bid items.

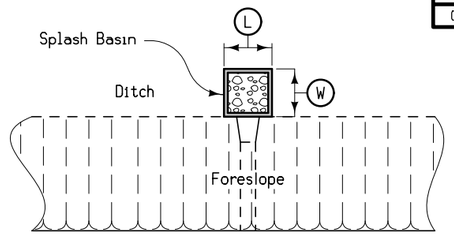
TYPICAL SECTION

Shoulder Strengthing Alternates with Curb & Gutter, PCC (HMA or PCC)

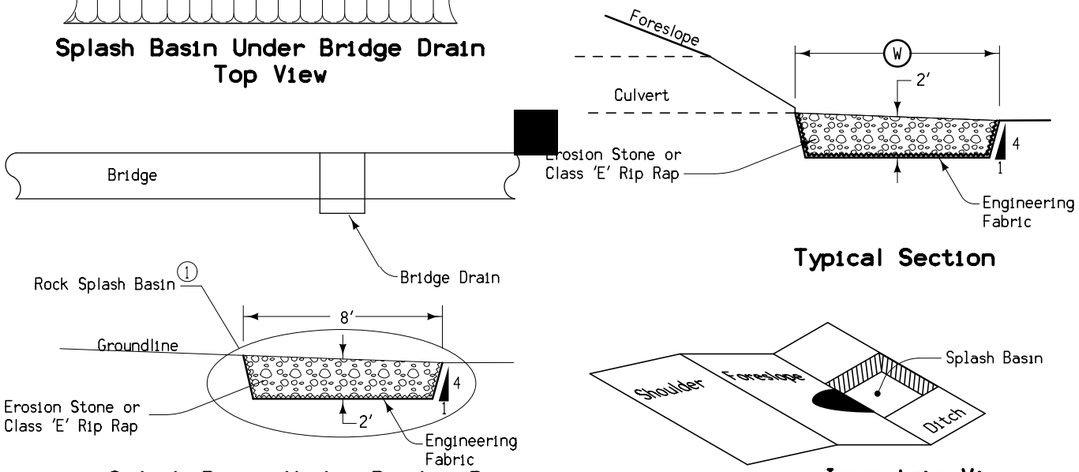
4404
04-18-06



Splash Basin Under Bridge Drain Top View



Top View



Splash Basin Under Bridge Drain Typical Section

Typical Section

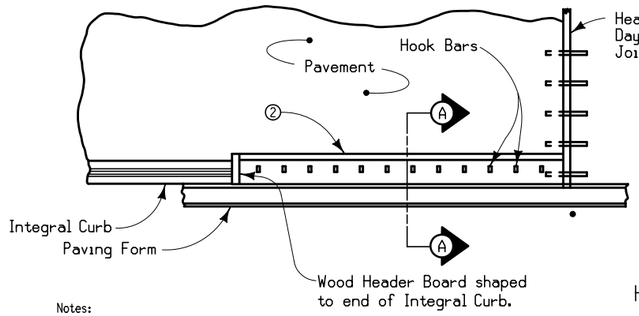
Isometric View

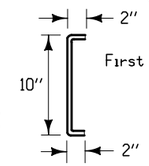
1 Splash basins under bridge drains shall typically be 8' wide x 8' long and centered directly under the bridge drain, where water would otherwise land on soil.

See Tabulation 100-23 for additional information.

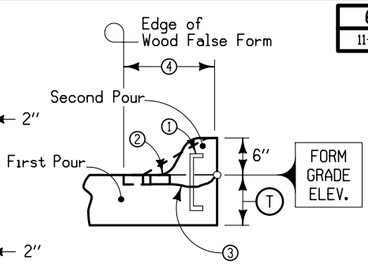
DETAILS OF ROCK SPLASH BASIN

6115
11-10-92





NO. 3
HOOK BAR



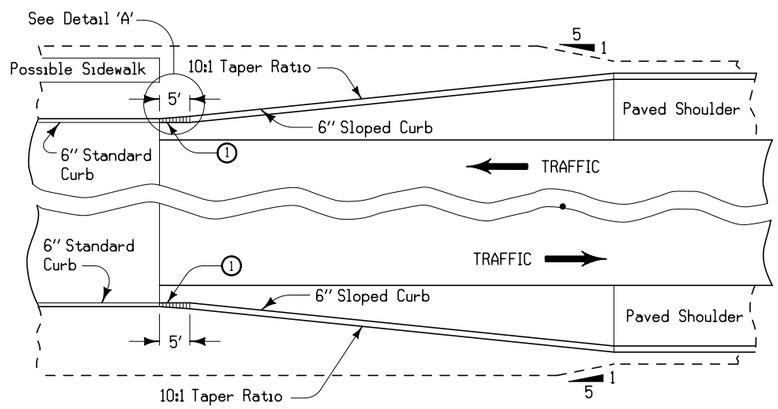
SECTION A-A

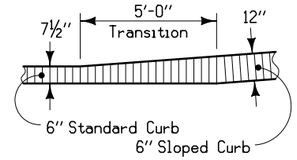
Notes:

1. Install hook bar at 12" intervals with top projecting so as to clear the paving equipment and as near the false form board as possible to maintain 2" surface clearance.
2. 2" x 4" False Form.
3. Excavate a slight cavity in concrete around each bar.
4. 12" maximum for Standard 6" Curb.
   16" maximum for Sloped 6" Curb.

CONSTRUCTION WHERE CURB IS OMITTED AT END OF DAY'S RUN

6148
11-10-92



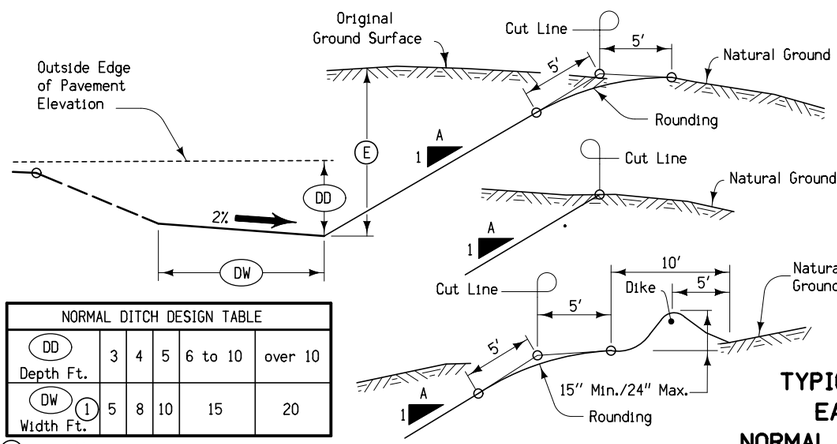


DETAIL 'A'

1 Transition to sloped curb in 5'.

TRANSITION BETWEEN STANDARD CURB AND SLOPED CURB ON SHOULDER

4101
10-18-05



NORMAL DITCH DESIGN TABLE					
DD Depth Ft.	3	4	5	6 to 10	over 10
DW (1) Width Ft.	5	8	10	15	20

1 A 100' transition should be used between width changes.

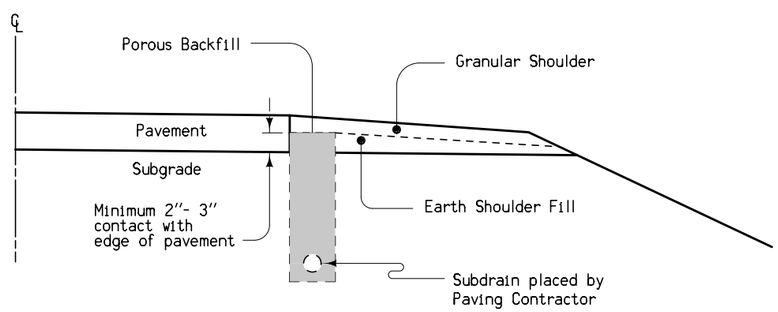
For normal conditions, backslopes (A) shall be 3.0 on 1.0 for E depths less than 25', unless specified otherwise. Refer to detail project plans and cross sections for Ditch Depth or for Special Ditches.

Refer to project plans for locations of areas where rounding of the back slope is not required.

Refer to plans for locations of intercepting ditches. Dike for intercepting ditch shall be made by taking earth from roadway side. Do not excavate back of dike.

TYPICAL CROSS SECTION EARTH EXCAVATION NORMAL DITCH AND BACKSLOPE

8302
10-19-04



Notes:

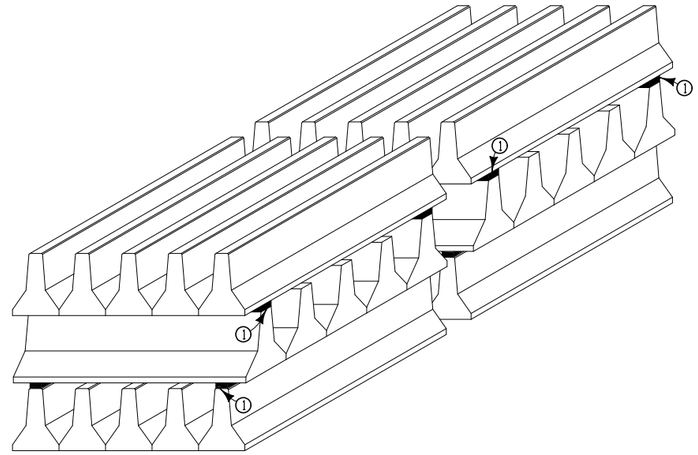
Earth shoulder fill material generated from trimming of the subgrade before paving shall be stockpiled outside of the subdrain area. Trim off earth to expose subdrain rock. Place fillet of porous backfill (separate compaction not required) prior to placing earth shoulder fill. Any deficiency to be made up by borrow furnished by the contractor. Earth shoulder fill is followed by the placement of "Granular Shoulder Material".

Fillet Rate: 1-Ton/Sta./Shoulder Payment of "Porous Backfill" will be by tons.

SUBDRAIN MAINTENANCE DURING SHOULDERING ACTIVITIES

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER B.5

8207
10-28-97



Notes:

At the completion of the project, the contractor shall stack the temporary barrier rail at locations designated in the plans.

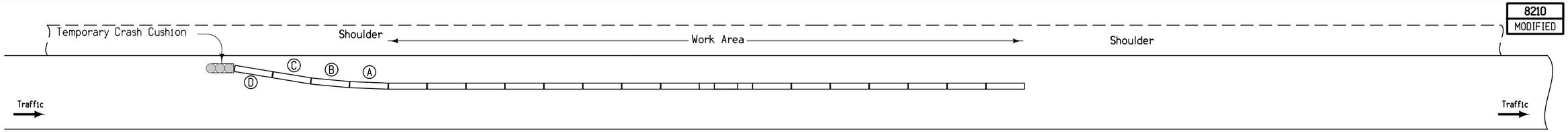
Barrier sections shall be stacked 3 high in alternating layers or as modified by the Engineer.

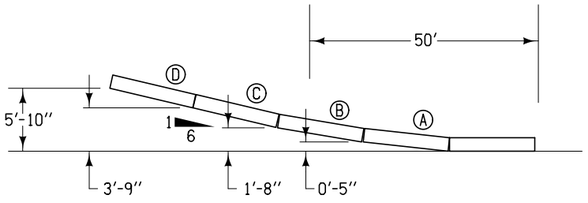
The cost of hauling and stacking the temporary barrier rail shall be incidental to the item "Temporary Barrier Rail".

(1) 2x4 or scrap lumber.

STORAGE PLAN FOR BARRIER RAIL

8210
MODIFIED





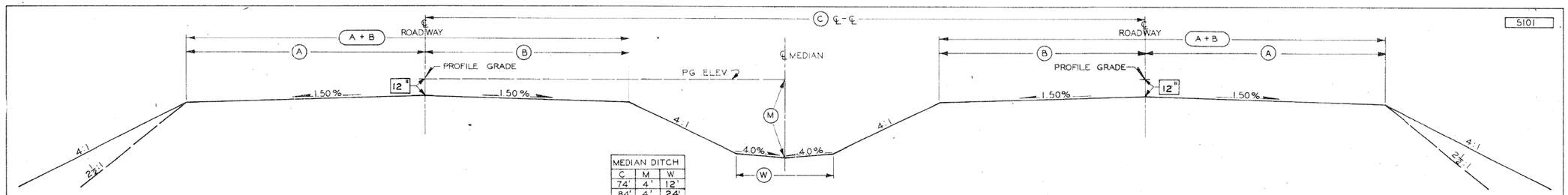
BARRIER OFFSETS FOR FLARE SECTIONS

TEMPORARY CONCRETE BARRIER LAYOUT

See J Sheets for Locations

PROJ. ROAD DIST. NO.	STATE	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
5	IOWA			2	200

5101



MEDIAN DITCH		
C	M	W
74'	4'	12'
84'	4'	24'

GRADING
TYPICAL CROSS SECTION
PROPOSED HIGHWAY IMPROVEMENT

STA	TO	STA	Ⓐ	Ⓑ	Ⓒ
2234+12.79		2311+00.10	25.0	21.5	74.0'
7002+35.60		7035+35.78	25.0	21.5	74.0'

Construsted

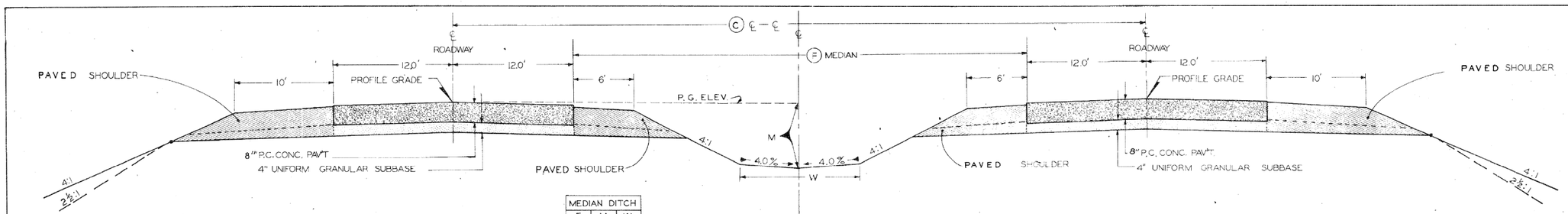
EQUATION: STA. 2311+00.10 = STA. 7002+35.60

BUILD 4:1 FORESLOPE EXCEPT AS OTHERWISE NOTED ON DETAIL PLANS. SEE PLAN FOR LOCATION OF 2 1/2 : 1 FORESLOPES.

NOTE
FOR MODIFICATION OF ROADWAY CROSS SECTION THROUGH SUPERELEVATED CURVES REFER TO STANDARD ROAD PLAN RH-9 AND TABULATION OF SUPERELEVATED CURVES.

SEE OTHER TYPICAL CROSS SECTIONS FOR DETAILS OF DITCHES AND BACKSLOPES.

2-12-65



MEDIAN DITCH		
F	M	W
50'	4'	12'
60'	4'	24'

NOTE:
ANY PORTION OF GRANULAR SUBBASE BENEATH SHOULDER MAY BE CONSTRUCTED WITH GRANULAR SUBBASE BENEATH PAVEMENT.

PAVING
TYPICAL CROSS SECTION
PROPOSED HIGHWAY IMPROVEMENT (FUTURE)

STA	TO	STA	Ⓒ	Ⓕ
2234+12.79		2311+00.10	74'	50'
7002+35.60		7035+35.78	74'	50'

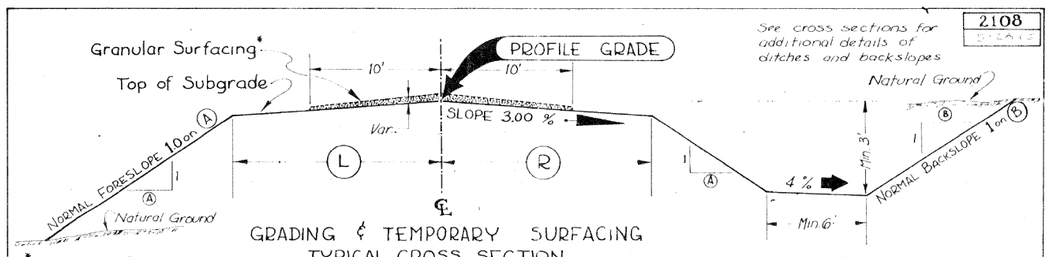
NOTE:
FOR MODIFICATION OF ROADWAY CROSS SECTION THROUGH SUPERELEVATED CURVES SEE STANDARD PLAN RH-9 ALSO SEE TABULATION OF SUPERELEVATED CURVES.

EQUATION: STA. 2311+00.10 = STA. 7002+35.60

(161) I-74 Stationing	As-Built Stationing
Sta. 6811+76.82 to Sta. 6838+56.70	Sta. 2120+27.59 to Sta. 2147+07.46

2-12-65

2108



GRADING & TEMPORARY SURFACING
TYPICAL CROSS SECTION

LOCATION		DIMENSIONS		SLOPES	
Station	to Station	L	R	A	B
73+50	96+00	17'	17'	2 1/2	2 1/2
8019+50	8035+00	17'	17'	2 1/2	2 1/2

Constructed

*Granular surfacing is estimated at the rate of 1150 tons per mile, including 50 tons for access points.

NOTE:
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the engineer.

FOR INFORMATION ONLY

ET-4

Scott COUNTY — PROJECT NO. 74-1(6)3**1-82 — SHEET NO. 2

EXISTING PAVEMENT TYPICALS

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER B.7

PROJECT DESCRIPTION

Shoulder strengthening, grading, and fill on I-74 from east of the Mississippi River to just east of Lincoln Road.

Project includes replacing the I-74 eastbound and westbound outside shoulders with pavement from east of Kimberly Road to just east of Lincoln Road. Reconstruct 13th Street.
Earth fill and grading will be placed underneath the existing viaducts.
Bridge construction shown in the plans will be ongoing concurrently with this project. The bridge work is not included in this contract and is shown for coordination purposes only.

ESTIMATED PROJECT QUANTITIES
(UP TO A 5 DIVISION PROJECT)

Division 1: IOWA DOT COST
Division 2: CITY OF BETTENDORF COST
Division 3: 72.23% IOWA /27.77% BETTENDORF COST
Division 4: NON-PARTICIPATING

Item No.	Item Code	Item	Unit	Quantities										
				Estimated						As Built				
				Division 1	Division 2	Division 3	Division 4	Division 5	Total	Division 1	Division 2	Division 3	Division 4	Division 5
1	2101-0850001	CLEARING AND GRUBBING	ACRE	5.6					5.6					
2	2102-0425070	SPECIAL BACKFILL	TON	124.36					124.36					
3	2102-2625000	EMBANKMENT-IN-PLACE	CY	1381					1381					
4	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	29524					29524					
5	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY	50					50					
6	2105-8425020	TOPSOIL, STRIP AND STOCKPILE	CY	4002					4002					
7	2107-0875100	COMPACTION W/MOISTURE CONTROL	CY	22712					22712					
8	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1					1					
9	2304-0100000	DETOUR PAVEMENT	SY	4765.1					4765.1					
10	2416-0100018	APRONS, CONCRETE, 18 IN. DIA	EACH	2					2					
11	2416-0100024	APRONS, CONCRETE, 24 IN. DIA	EACH	1					1					
12	2416-0100030	APRONS, CONCRETE, 30 IN. DIA	EACH	1					1					
13	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	Each	7					7					
14	2435-0700010	CONNECTION TO EXISTING MANHOLE	EACH	2					2					
15	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	498					498					
16	2502-8220193	SUBDRAIN OUTLET (RF-19C)	EACH	8					8					
17	2503-0114218	STORM SWR G-MAIN,TRENCHED, RCP 2000D,18"	LF	33					33					
18	2503-0114224	STORM SWR G-MAIN,TRENCHED, RCP 2000D,24"	LF	148					148					
19	2503-0114230	STORM SWR G-MAIN,TRENCHED, RCP 2000D,30"	LF	291					291					
20	2503-0114236	STORM SWR G-MAIN,TRENCHED, RCP 2000D,36"	LF	431					431					
21	2503-0114430	STORM SWR G-MAIN,TRENCHED, RCP 3000D,30"	LF	124					124					
22	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	253					253					
23	2507-3250005	ENGINEERING FABRIC	SY	77.4					77.4					
24	2507-6800061	REVETMENT, CLASS E	TON	54					54					
25	2510-6745850	REMOVAL OF PAVEMENT	SY	6325					6325					
26	2520-3350015	FIELD OFFICE	EACH	1					1					
27	2526-8285000	CONSTRUCTION SURVEY	LS	1					1					
28	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	362.5					362.5					
29	2528-8400055	TEMPORARY TO PERMANENT BARRIER CONNECTION	EACH	1					1					
30	2528-8445110	TRAFFIC CONTROL	LS	1					1					
31	2528-8445113	FLAGGER	EACH	0					0					
32	2533-4980005	MOBILIZATION	LS	1					1					
33	2537-8900000	REMEDIATION OF PETROLEUM CONTAMINATED SOIL	CY	1381					1381					
34	2537-8900100	SAMPLE+TEST-PETRO CONTAM (REMEDIATION)	EACH	5					5					
35	2551-0000110	TEMPORARY CRASH CUSHION	EACH	1					1					
36	2599-9999009	TEMPORARY SLOPE DRAIN, AS PER PLAN	LF	120					120					
37	2601-2634100	MULCHING	ACRE	5.9					5.9					
38	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	5.9					5.9					
39	2602-0000020	SILT FENCE	LF	6436					6436					
40	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	432					432					
41	2602-0000050	SILT BASINS	EACH	4					4					
42	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	2719					2719					
43	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	544					544					
44	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	2335					2335					
45	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	707					707					
46	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	1521					1521					
47	2602-0010010	MOBILIZATION, EROSION CONTROL	EACH	1					1					
48	2602-0010020	MOBILIZATION, EMERGENCY EROSION CONTROL	EACH	1					1					

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	2101-0850001	CLEARING AND GRUBBING
		See Sheets U.2 to U.6 for quantities.
		Quantity includes non-pavement area within proposed ground line intercepts.
		Additional locations as directed by the Engineer.
2	2102-0425070	SPECIAL BACKFILL
		For underneath shoulder strengthening. See typical 7153 and 7154 on B.3 to B.4.
		See Tab 103-3 on C Sheets for quantities
3	2102-2625000	EMBANKMENT-IN-PLACE
		For backfill to replace possible contaminated soil
		from Item 2537-8900000
4	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW
		See T-sheets for template quantities.
		CL 10 Bid quantity of 29,524 CY includes:
		3,485 CY Suitable Excavation
		29,524 CY Fill
		Project Need = 26,039 CY Contractor furnished
		Overhaul will not be measured or paid for, but shall
		be considered incidental to roadway excavation.
		Contractor-furnished borrow.
5	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS
		For boulders encountered in excavation. Existing rip rap is not included.
		See Tab 103-7 on C Sheets.
6	2105-8425020	TOPSOIL, STRIP AND STOCKPILE
		See T-sheets for template quantities-
		Topsoil Class 10 Saved
7	2107-0875100	COMPACTION W/MOISTURE CONTROL
		See Tab 103-6 on the C Sheets
		Cubic Yards shown on the contract documents as determined by the template volume.
		See T-sheets for template quantities of Total Fill
8	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES
		Refer to Tab 100-24 on the C Sheets for pavement schedule.
9	2304-0100000	DETOUR PAVEMENT
		Includes areas shown on Tab 100-24
		For I-74 shoulder strengthening shown on section 7153 on Sheet B.3
		Contractor option for 10.5"HMA or 8.5" PCC
10	2416-0100018	APRONS, CONCRETE, 18 IN. DIA
11	2416-0100024	APRONS, CONCRETE, 24 IN. DIA
12	2416-0100030	APRONS, CONCRETE, 30 IN. DIA
		See Tab 104-5B on M Sheets.
13	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.
		See Tab 104-5B on M Sheets.
14	2435-0700010	CONNECTION TO EXISTING MANHOLE
		See Tab 104-5B on M Sheets.
15	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.
16	2502-8220193	SUBDRAIN OUTLET (RF-19C)
		See Tab 104-9 on C Sheets
17	2503-0114218	STORM SWR G-MAIN,TRENCHED, RCP 2000D,18"
18	2503-0114224	STORM SWR G-MAIN,TRENCHED, RCP 2000D,24"
19	2503-0114230	STORM SWR G-MAIN,TRENCHED, RCP 2000D,30"
20	2503-0114236	STORM SWR G-MAIN,TRENCHED, RCP 2000D,36"
21	2503-0114430	STORM SWR G-MAIN,TRENCHED, RCP 3000D,30'
		See Tab 104-5B on M Sheets.
22	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL
		Quantity for steel plate guardrail removal shown on sheets U.2 to U.6 and Tab 110-7A
		on C sheets.
23	2507-3250005	ENGINEERING FABRIC
		Engineering fabric shall be material as specified for embankment erosion control, Article 4196.01C.
		Material shall be measured in sq. yd. of actual area covered.
		Refer to typical detail 4404 on the sheet B.5.
		See Tab 100-23 on the C sheets for locations.
24	2507-6800061	REVETMENT, CLASS E
		See Tab 100-23 on the C Sheets and Typical Detail 4404 on sheet B.5
25	2510-6745850	REMOVAL OF PAVEMENT
		See Tab 110-1 on C sheets.
		Includes 5344.6 LF full depth sawcut

100-4A
08-01-08

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		See sheets U.2 to U.6 for locations and details.
		See the Sheet B.7 and Tab 102-5 on the C Sheets for available existing pavement information.
26	2520-3350015	FIELD OFFICE
27	2526-8285000	CONSTRUCTION SURVEY
28	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE
		See J sheets and Tab 108-33 on C Sheets for locations.
		Contractor to place Temporary Barrier Rail prior to removal of guardrail.
		Temporary Barrier rail to remain in place at the end of the contract.
29	2528-8400055	TEMPORARY TO PERMANENT BARRIER CONNECTION
		See J Sheets and Tab 108-33 on C Sheets for Location
		Refer to Sheet U.8 "TBR Connection To Fastback Bridge End Post"
30	2528-8445110	TRAFFIC CONTROL
		See Traffic Control Plan on J Sheets.
31	2528-8445113	FLAGGER
32	2533-4980005	MOBILIZATION
33	2537-8900000	REMEDIATION OF PETROLEUM CONTAMINATED SOIL
		All petroleum contaminated soil shall be disposed at a permitted sanitary landfill.
		Copies of the landfill receipts shall be submitted to the Engineer
		Parcel 1: Approximately 444 CY Excavation from Sta. 6802+75 to 6805+00
		Parcel 2: Approximately 937 CY Excavation from Sta. 6800+75 to 6802+25
34	2537-8900100	SAMPLE+TEST-PETRO CONTAM (REMEDIATION)
		A. Refer to sheets U.11 and U.12 for locations.
		B. The Contractor shall have an Iowa Groundwater Professional, certified in accordance with 567
		IAC Chapter 134, on site during excavation activities on parcels 101, 102, 103, 104, 117, 122,
		159, 171, 218, 235,316, 317, 344, 349, 354, 520, 521 and 618. The Groundwater Professional
		shall monitor excavated material through soil vapor analysis and sampling. Samples shall be
		submitted to a laboratory accredited in accordance with 567 IAC Chapter 83 and analyzed for
		petroleum compounds using Iowa 0A-1 and 0A-2 testing procedures. Additional analyses may
		be added at the discretion of the Groundwater Professional and approved by the Engineer.
		C. The Groundwater professional shall be available on an on-call basis during all other excavation
		activities. The Contractor shall cease operations in the immediate area upon encountering
		suspect contamination and contact the Groundwater Professional for field review and sampling.
		D. Compensation for oversight by the Groundwater Professional, and sample analysis beyond
		petroleum compounds shall be negotiated and paid for in accordance with Article 1109.03, B, of
		the Standard Specifications.
		E. Samples shall be taken every 100' of excavation along the properties as shown on Sheet U.11, U,12
		and identified below.
		Parcel 1: 3 Samples
		Parcel 2: 2 Samples
35	2551-0000110	TEMP CRASH CUSHION
		Placed at end of Temporary concrete barrier rail. See Tab 108-30 on C Sheets
		Temporary Crash Cushion to remain in place at the end of the contract.
36	2599-9999009	TEMPORARY SLOPE DRAIN, AS PER PLAN
		Per DETAILS OF TEMPORARY SLOPE DRAIN on U.7.
		Quantity provided for 20' on each of left and right sides of embankment. One placement on each side.
		Expected to be 6 total setups for a quantity of 120'.
		DESCRIPTION.
		Details are for the installation of a temporary
		slope drain on the foreslope of the roadway fill. The intent of
		the temporary slope drain is to prevent foreslope erosion during
		construction and to minimize the water pollution which might
		be caused by soil erosion from the project.
		CONSTRUCTION.
		At the completion of each day's grading, a temporary berm will
		be constructed on both sides of the subgrade. At points a maxi-
		mum of 500' apart, at low points of vertical curves, and as deter-
		mined by the Engineer, temporary intercepting wing dikes shall
		be graded and slope drains installed. All special grading work
		shall be considered incidental to other grading work on the
		project.
		Foreslopes with a vertical height of ten feet or less shall not have
		temporary slope drains installed.
		MATERIALS.
		The temporary slope drain shall consist of a length of pipe cap-
		able of extending to the top of foreslope when all grading has
		been completed. The pipe shall be moved up the foreslope to
		the new temporary top of slope berm at the completion of each
		day's work. The pipe shall be Solid Tubing complying with all
		requirements of ASTM F 405, Standard Duty Tubing.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		METHOD OF MEASUREMENT.
		Method of measurement shall be along the centerline of pipe in
		its final position.
		BASIS OF PAYMENT.
		The price bid for "Temporary Slope Drain, As Per Plan", measured
		in lineal feet, shall be considered full compensation for the con-
		struction of all required temporary top of slope berms, for
		installing and maintaining the slope drain for the duration of the
		contract, and for removal of all materials upon the completion of
		the embankment.
37	2601-2634100	MULCHING
		See Tab 100-11 on C Sheets and disturbed areas shown on sheets. U.2 to U.6
		All seeded areas shall be mulched. Area disturbed but not seeded by September 30
		shall be scarified to a 3 inch depth, and mulched. All mulch is to be consolidated
		into the soil with the mulch stabilizer. Mulch shall be Certified Noxious Weed Seed
		Free Mulch as certified by the Iowa Crop Improvement Association or
		adjacent states Crop Improvement Associations
		Quantity is estimated as disturbed area to 10' past the need line.
38	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)
		Included for all urban disturbed areas following the final construction as designated by the engineer.
		See Standard Note 232-11
		See Tab 100-11 on C Sheets and disturbed areas shown on sheets U.2 to U.6
		Quantity is estimated as disturbed area to 10' past the need line.
39	2602-0000020	SILT FENCE
		This item includes 25% more silt fence than the tab quantity for field adjustments and replacements.
		See tab 100-17 for locations and details.
		Place silt fence around intakes per EC-201
40	2602-0000030	SILT FENCE FOR DITCH CHECKS
		This item includes 50% more silt fence for ditch checks than the tab quantity for field adjustments
		and replacements. See tab 100-18 on C sheets for locations and details.
41	2602-0000050	SILT BASINS
		Refer to Tab. 100-14. The tabulation includes estimated locations for placement of “Silt
		Basins” to address erosion to be encountered during construction. Verify the specific
		locations with the Engineer prior to beginning placement. Bid item includes 100%
		additional quantity for field adjustments and maintenance
42	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS
		This item is included for silt fence and silt fence for ditch check removal required for
		staging reasons, removal to allow for replacement (replacement to be paid separately), or
		for areas that have achieved 70% permanent growth.
		This item is for 50% of the silt fence Tab 100-17 and 100-18 quantities.
43	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK
		This item is included for maintaining the new silt fence and silt fence ditch checks
		installed for the paving project and existing silt fence and silt fence for ditch checks
		installed as part of the grading project
		This item is for 10% of the Tabulation quantity on Tab 100-17 and 100-18 quantities.
44	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.
45	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.
		See Tab 100-19 on the C Sheets
		This item is included for the temporary perimeter sediment control and water velocity reduction on slopes.
		Wattles and sediment logs shall consist of wood excelsior or straw contained in a tube of ultraviolet (UV)
		degradable open weave fabric (synthetic netting). Wattle or sediment log installation shall be as per
		manufacturer's recommended installation procedures.
		Filter socks shall be a continuous, tubular, knitted mesh netting with 3/8" opening, constructed of 5-mil
		thickness, photodegradable HDPE. The filter material shall be compost from an approved source meeting
		Article 4169.08 of the Standard Specifications. The sock shall be filled by blowing the filter material into
		the tube with a special pneumatic blower truck or similar device. Hand filling is not an acceptable means to
		fill the sock. Compost filter socks shall be installed as per manufacturer's recommended installation
		procedures.
46	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE
		This item is included for removal required for
		staging reasons, removal to allow for replacement (replacement to be paid separately), or
		for areas that have achieved 70% permanent growth.
		This item is for 50% of the Tab 100-19 quantity.
47	2602-0010010	MOBILIZATION, EROSION CONTROL
		Refer to supplemental Specification 09011
48	2602-0010020	MOBILIZATION, EMERGENCY EROSION CONTROL
		Refer to supplemental Specification 09011

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
BA-202	10-18-11	Steel Beam Guardrail Bolted End Anchor
BA-401	04-20-10	Temporary Barrier Rail (Precast Concrete)
BA-500	04-20-10	Temporary Crash Cushions Sand Barrel
EC-201	04-20-10	Silt Fence
EW-101	04-19-11	Embankment and Rebuilding Embankments
PM-110	04-19-11	Line Types
RF-3	10-18-11	Concrete Aprons
RF-14	10-18-11	Connected Pipe Joints
RF-26	10-18-11	Pipe Apron Guard
RF-30A	10-19-10	Culvert (Bedding and Backfill)
RL-2A	10-18-05	Details of Embankment Subgrade Treatment, Moisture Density Control & Special Compaction
RL-9	04-20-10	Temporary Erosion Control Measures
SI-101	04-21-09	Locations - Type 'A' Signs
SI-121	04-20-10	Fabrication - Sign Legend Components
SI-881	04-19-11	Special Signs for Workzones
SW-101	04-21-09	Trench Bedding and Backfill Zones
SW-102	04-21-09	Rigid Gravity Pipe Trench Bedding
SW-401	04-21-09	Circular Storm Sewer Manhole
SW-404	04-17-12	Rectangular Base/Circular Top Storm Sewer Manhole
SW-602	10-20-09	Castings for Storm Sewer Manholes
SW-603	04-17-12	Castings for Grate Intakes
SW-604	10-20-09	Castings for Area Intakes
TC-1	10-18-11	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-273	04-20-10	Construction Site Entrance
TC-402	04-17-12	Shoulder Closure (Multi-Lane)
TC-418	04-17-12	Lane Closure on Divided Highway
TC-420	04-17-12	Lane Closure at Ramps
PV-102	04-16-13	PCC Curb Details

INDEX OF TABULATIONS

POLLUTION PREVENTION PLAN

This Base Pollution Prevention Plan (PPP) includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed per plan revisions or by contract modification, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The prime contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Signature authority on the Base PPP and NOI.

B. Contractor/Subcontractor:
1. Affected contractors/subcontractors are co-permittees with the IDOT and will sign a certification statement adhering to the requirements of the NPDES permit and this PPP plan. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Submit a detailed schedule according to Article 2602 of the Specifications and any additional plan notes.
3. Install and maintain appropriate controls.
4. Supervise and implement good housekeeping practices.
5. Conduct joint required inspections of the site with inspection staff.
6. Signature authority on Co-Permittee Certification Statements and storm water inspection reports.

C. RCE/Inspector:
1. Update PPP whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the discharge of pollutants from the project.
2. Maintain an up-to-date list that identifies contractors and subcontractors as co-permittees.
3. Make these plans available to the DNR upon their request.
4. Conduct joint required inspections of the site with the contractor/subcontractor.
5. Complete an inspection report after each inspection.
6. Signature authority on storm water inspection reports and Notice of Discontinuation (NOD).

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the construction of I-74 shoulders and local roads.
B. This PPP covers approximately 100 acres with an estimated 63.6 acres being disturbed. The portion of the PPP covered by this contract has 5 acres disturbed.
C. The PPP is located in an area of one soil association Kenyon-Floyd-Clyde.
The estimated average SCS runoff curve number for this PPP after completion will be 94.
D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
1. Drainage patterns – Plan and Profile sheets and Situation plans.
2. Proposed Slopes – Cross Sections.
3. Areas of Soil Disturbance – construction limits shown on Plan and Profile sheets.
4. Location of Structural Controls – Tabulations on C sheets.
5. Locations of Non-structural Controls – Tabulations on C sheets.
6. Locations of Stabilization Practices – generally within construction limits shown on Plan and Profile sheets.
7. Surface Waters (including wetlands) – Plan and Profile sheets.
8. Locations where storm water is discharged – Plan and Profile sheets.
E. The base site map is amended by contract modifications and progress payments of completed erosion control work.
F. Runoff from this work will flow into the Mississippi River.

III. CONTROLS

A. The contractor's work plan and sequence of operations specified in Article 2602.03 for accomplishment of storm water controls should clearly describe the intended sequence of major activities and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
B. Preserve vegetation in areas not needed for construction.
C. Section 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B.
1. EROSION AND SEDIMENT CONTROLS
a. Stabilization Practices
1) Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized.
2) Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased.
3) Temporary stabilizing seeding shall be completed as the disturbed areas are constructed. If construction activity is not planned to occur in a disturbed area for at least 21 days, the area shall be stabilized by temporary seeding or mulching within 14 days. Other stabilizing methods shall be used outside the seeding time period.
4) Stabilization measures to be used for this project are located in the Estimated Project Quantities (100-1A) and Estimate Reference Information (100-4A) located on the C sheets of the plan. Additional items may be found in the Inspector's Daily Reports (IDR) or Contract Modifications.
b. Structural Practices
1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site.
2) Structural items to be used for this project are located in the Estimated Project Quantities (100-1A) and Estimate Reference Information (100-4A) located on the C sheets of the plan, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B sheets of the plan or are referenced in the Standard Road Plans Tabulation.
c. Storm Water Management
1) Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.
2. OTHER CONTROLS
a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.
1) Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
2) Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
3) Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
4) Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
5) Spill Prevention and Control - Implement procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
6) Concrete Residuals and Washout Wastes - Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located.
7) Vehicle and Equipment Cleaning - Employ washing practices that prevent contamination of surface and ground water from wash water.
8) Vehicle and Equipment Fueling and Maintenance - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onside fuels and proper disposal of used engine oil or other fluids on site.
9) Litter Management - Ensure employees properly dispose of litter.
3. APPROVED STATE OR LOCAL PLANS
During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the contractor and the contracting authority at least once every seven calendar days and after each rain event that is ½" or greater. Storm water monitoring inspections will include:
1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
4. Rainfall amount.
5. Review erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
6. Major observations related to the implementation of the PPP.
7. Identify corrective actions required to maintain or modify erosion and sediment control measures.
B. Include storm water monitoring inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found and complete all actions within 3 calendar days of the inspection.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of patio blocks, Class A stone, erosion stone or other appropriate materials.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - May include Plan Revisions or Contract Modifications for new items and fieldbook entries made by the inspector.
C. IDR - Inspector's Daily Report – this contains the inspector's daily diary and item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials.
E. Signature Authority - Representative from Designer, Contractor/Subcontractor, or RCE/Inspector authorized to sign various storm water documents.

213-3
10-18-11

SUBSOIL TILLAGE

All borrow areas, stockpile areas, haul roads, and areas used for equipment on this project require subsoil tillage to an average depth of 16 to 20 inches prior to placement of topsoil and/or stabilizing crop seeding. Complete this tillage at 3 foot maximum centers and at right angles to the finished slope.

Use tillage equipment equipped with an arrowhead type shoe that will provide lateral displacement and limit the movement of the subsoil to the surface. Obtain the Engineer's approval for the equipment. This work is incidental to other work on the project.

Following the subsoil tillage, the area is to remain in a "loosened" condition. Additional compaction or the operation of heavy equipment, other than required for topsoil placement and shaping, will not be allowed on areas which have received subsoil tillage.

232-6
10-18-11

EROSION CONTROL
(SELECTIVE CLEARING)

Selective clearing will be required on this project. Do not remove any trees outside of the construction limits without the Engineer's approval.

253-1
10-18-11

MEDIAN CROSSOVER

The Contractor is prohibited from using any established or other type median crossover on this project unless specifically designated for the Contractor's use by this plan.

254-1
10-02-01

INCIDENT MANAGEMENT

An incident management plan, provided by the District Office, will be discussed at the pre-construction conference.

262-5
10-18-05

UTILITIES
(POINT 25 PROJECT)

This is a POINT 25 project and is subject to the provisions of IAC 761-115.25.

281-1
10-18-11

SECTION 404 PERMIT AND CONDITIONS

Construct this project according to the requirements of U.S. Army Corps of Engineers _____, Permit No. _____. A copy of this permit is available from the Iowa DOT Office of Contracts upon request. The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

100-11
Modified

TABULATION OF EROSION CONTROL DETAILS

Location		Stabilizing Crop - Seeding and Fertilizing	Seeding and Fertilizing	Mulching	Special Ditch Control		Sod	Crown-Vetch Seeding	Seeding Special Areas	Ditch Reshaping	Mowing
Begin Station	End Station				Wood Excelsior Mat						
		ACRE	ACRE	ACRE	SQ		SQ	ACRE	ACRE	STA	ACRE
6799+48.0	6802+91.0	1.5		1.5							
6802+75.0	6805+45.0	1.6		1.6							
6805+18.0	6811+25.0	2.8		2.8							
	Total	5.9		5.9							

100-17
04-20-10

TABULATION OF SILT FENCES

Refer to EC-201

Location			Length	Remarks
Begin Station	End Station	Side	LF	
6811+77.0	6820+35.0	RT	943.0	Div.(1)
6812+58.0	6826+01.0	LT	1477.0	Div.(1)
6826+79.0	6838+04.0	RT	1233.0	Div.(1)
6827+62.0	6838+57.0	LT	1208.0	Div.(1)
6800+76.3	1+47.1	RT	36.0	Div.(1)
6800+80.6	1+05.9	LT	36.0	Div.(1)
6786+96.1	+00.8	RT	36.0	Div.(1)
6784+39.6	1+41.6	LT	36.0	Div.(1)
6803+55.8	1+00.0	LT	36.0	Div.(1)
6805+10.5	1+66.3	LT	36.0	Div.(1)
6803+83.8	2+06.3	RT	36.0	Div.(1)
6805+86.5	1+83.4	RT	36.0	Div.(1)
	TOTAL		5149.0	

100-14
04-20-10

TABULATION OF SILT BASINS

Refer to RL-9

Location Station	Side	Remarks
6800+76.33	RT	Intake TMP9 Div.(1)
6800+80.57	LT	Intake TMP10 Div.(1)
6784+39.55	LT	Intake 921
6786+96.07	RT	Intake 926
Total	4	

100-18
04-20-10

TABULATION OF SILT FENCES FOR DITCH CHECKS

Refer to EC-201

Location Station	Side	Length	Remarks
		LF	
6800+75.0	LT	16.0	Div.(1)
6801+20.0	LT	16.0	Div.(1)
6801+00.0	RT	16.0	Div.(1)
6801+25.0	LT	16.0	Div.(1)
6805+30.0	LT	16.0	Div.(1)
6806+80.0	LT	16.0	Div.(1)
6808+30.0	LT	16.0	Div.(1)
6808+70.0	LT	16.0	Div.(1)
6809+10.0	LT	16.0	Div.(1)
6809+50.0	LT	16.0	Div.(1)
6809+90.0	LT	16.0	Div.(1)
6806+85.0	RT	16.0	Div.(1)
6808+35.0	RT	16.0	Div.(1)
6809+60.0	RT	16.0	Div.(1)
6808+85.0	RT	16.0	Div.(1)
6784+39.55	150' LT	16.0	Div.(1)
6786+90	44' RT	16.0	Div.(1)
6787+05.0	45' LT	16.0	Div.(1)
Total		288.0	

100-23
10-19-10

* Design shown for mandatory locations is the minimum allowed.

ROCK DITCH CHECKS/DITCHES/FLUMES/SPLASH BASINS/SLOPE PROTECTION

Refer to Typicals 4401, 4402, 4403, 4404, and 4405

Location				Type						(L)	(W)	Material			Remarks
Road Identification	Station	Side	Mandatory* Location (yes or no)	Rock Ditch Check	Rock Ditch	Rock Flume	Rock Splash Basin	Rock Slope Protection				Erosion Stone	Class E Revetment	Eng. Fabric	
		Lt./Rt.								FT	FT	TON	TON	SY	
I-74	6800+76.33	147.1 Rt	Required				1			15.0	15.0		27.0	38.7	Div. (1)
I-74	6800+80.57	105.93 Lt	Required				1			15.0	15.0		27.0	38.7	Div. (1)
I-74															
												Total	54.0	77.4	

100-19
10-16-12

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Refer to EC-204

Location			Length of Installation				Remarks
Begin Station	End Station	Side	6 inch Dia	9 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	
6802+75.00	6805+45.00	LT/R			1309.0		
6805+22.00	6811+28.00	LT/R			1026.0	707.0	
				TOTAL	2335.0	707.0	

EXISTING PAVEMENT

No.	Location					Year	Type	Project Number	Surface		Base		Subbase		Removal		Coarse Aggregate			Remarks
	County	Route	Dir. of Travel	Begin Milepost	End Milepost				Type	Depth IN	Type	Depth IN	Type	Depth IN	Type	Depth IN	Source	Type	Durability Class	
1	Scott	I-74	Both			1968		74-1(6)3**1-82	PCC	8					None					
													Granular	4	None					
2	Scott	I-74	Both			1968		74-1(6)3**1-82	PCC	8					Full	8				
													Granular	4	Full	4				

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Pavement Type	Area SY	Saw Cut* LF	Intakes and Utility Accesses No.	Remarks
6812+58.0	6826+01.3	SHOULDER	1375.5	1977.0		EXISTING I-74 MAINLINE Div.(1)
6827+61.7	6838+56.7	SHOULDER	1559.2	1112.9		Div.(1)
6811+76.8	6820+34.5	SHOULDER	936.5	2234.1		Div.(1)
6826+79.4	6838+03.7	SHOULDER	721.4	972.6		Div.(1)
Lady Luck Parkway			742.1	28.0		
Total			6324.7			

REMOVAL OF STEEL BEAM GUARDRAIL

* Not a bid item
(1) Lane(s) to which the installation is adjacent.

Location					Guardrail	End Terminals and Anchors*		Remarks
No.	(1) Direction of Traffic	Station to Station		Side	Remove LF	Remove No.	Type	
1	EB	6812+40.2	6814+92.6	RT	253.0	1	BA-202, TY A	Length Includes End Terminal Div.(1)
			Total		253.0			

103-3
08-01-08

PROPOSED SUBGRADE TREATMENT

(For Additional Details see Soils Survey Sheet Nos. Q.1 to Q.12 .)

No.	Location		Description			Type		Quantity		Polymer Grid	Available From		Remarks
	Begin Station	End Station	Side	Depth	Width	Material	Shrink %				Quantity	Location or Station to Station	
				FT	FT			CY	TON	SY	CY		
1	6811+76.7	6820+34.5	RT	1.0	Var.	SPECIAL BACKFILL (SEE ART. 4132)		360.0	25.20				DIVISION #1 - SAME ITEM AS SHOWN ON TYPICAL PAVEMENT SECTION (B SHEETS)
2	6812+58.9	6826+01.3	LT	1.0	Var.	SPECIAL BACKFILL (SEE ART. 4132)		533.0	37.31				DIVISION #1 - SAME ITEM AS SHOWN ON TYPICAL PAVEMENT SECTION (B SHEETS)
3	6827+61.7	6838+56.7	LT	1.0	Var.	SPECIAL BACKFILL (SEE ART. 4132)		580.8	40.66				DIVISION #1 - SAME ITEM AS SHOWN ON TYPICAL PAVEMENT SECTION (B SHEETS)
4	6826+79.5	6838+03.7	RT	1.0	Var.	SPECIAL BACKFILL (SEE ART. 4132)		302.8	21.20				DIVISION #1 - SAME ITEM AS SHOWN ON TYPICAL PAVEMENT SECTION (B SHEETS)
TOTAL									124.36				

103-6
04-19-11

EMBANKMENT WITH MOISTURE CONTROL

Moisture content shall be within the limits of minus __2__ and plus__2__ percentage points of Optimum Moisture Content for maximum density within the area described and listed below.

Moisture Control is required for all Class 10 fill placed in all locations and depths. Stability berms placed outside the normal foreslope template and topsoil will not require Moisture Control.

Moisture Control is also required on all select subgrade treatments.

Proposed Subgrade Treatment:Special Backfill
Quantity: 124.4 Tons

104-9
04-17-12

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

(1) Refer to RL-13, EW-203, or EW-204.

Refer to Soils Sheets

* Not a bid item

Line No.	Location: Road or Lane Ident.	Station to Station		Side	Depth (D)	Longitudinal Subdrain (RF-19C): Shoulder Size	Shoulder Length	Backslope Size	Backslope Length	Bridge Berm (1) Size	Bridge Berm (1) Type	Bridge Berm (1) Length	Subdrain Outlet: RF-19C, RF-19E, or RF-19F Station	Outlet Size	Outlet Standard Road Plan and Type	Porous* Backfill	Class "A"* Crushed Stone	Remarks
					IN	IN	FT	IN	FT	IN		FT		IN		CY	CY	
1	13TH ST	13100+89.4	13102+98.0	Left	24.0	4.0	212.6						13100+89.4	6.0	RF-19C	9.8		CAP @ 13100+89
													13102+98.0	6.0	RF-19C			90 DEGREE BEND
2	13TH ST	13102+98.0	13102+98.0	Left	24.0	4.0	51.0						13102+98.0	6.0	RF-19C	2.4		
													13102+98.0	6.0	RF-19C			47' OFFSET FROM ALIGN.
3	13TH ST	13100+89.4	13102+66.8	Right	24.0	4.0	181.4						13100+89.4	6.0	RF-19C	8.4		CAP @ 13100+89
													13102+66.8	6.0	RF-19C			90 DEGREE BEND
4	13TH ST	13102+66.8	13102+66.8	Right	24.0	4.0	53.0						13102+66.8	6.0	RF-19C	2.5		
													13102+66.8	6.0	RF-19C			49' OFFSET FROM ALIGN.
			Total				498.1									23.1		

NOTE: ALL ITEMS ARE DIVISION #1.
NOTE: ALL SUBDRAINS ARE RF-19C TYPE 12 INSTALLATION. ALL OUTLETS ARE RF-19C "INTAKE OUTLET" WITH THE OUTLET INTO STORM SEWER INTAKES.
NOTE: ANY EXISTING LONGITUDINAL SUBDRAINS, IF ENCOUNTERED, SHALL BE REMOVED IN THEIR ENTIRETY.
NOTE: ADJUST ALL SUBDRAINS AND OUTLETS IN FIELD AS NECESSARY AND APPROVED BY ENGINEER.

103-7
08-01-08

SHRINKAGE DATA

Material	%	Remarks
TOPSOIL	50%	
CLASS 10	30%	
		BOULDERS 50 Cu. Yds.
		excluding Class 12
		Rock Excavation

Geotechnical Design

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

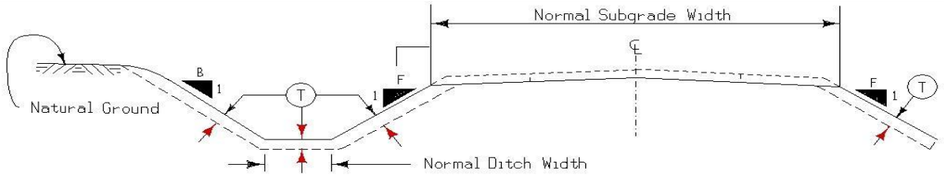
10/11/2011
Signature Date

Kipkoech K. Chepkoit
Printed or Typed Name

My license renewal date is December 31, 2012

Pages or sheets covered by this seal: C.10, Q.1-Q.9

TABULATION OF SPREADING TOPSOIL



Perform this work according to Section 2105. Prior to placing topsoil on any cohesive soil, scarify the area to be covered to a minimum depth of 3 inches.

Appropriate adjustments have been made in the template quantities to reflect the placement of topsoil on foreslope, backslope and ditch bottom as detailed hereon.

Placement Description								Topsoil Excavation Available From			
Area No.	Quantity CY	Location Station to Station		Side L. or R.	Slope B. or F.	(T) IN	Remarks	Amount Reserved CY	Station to Station		Remarks
							NO TOPSOIL PLACEMENT IN THIS CONTRACT	3585.4	6805+50.00	6808+00.00	Begin Excavation north of Calvert.
								1750.6	6808+00.00	6810+50.00	Stockpile for future contracts.
							TOTAL	5336.0			

TEMPORARY BARRIER RAIL

Refer to BA-400 and BA-401

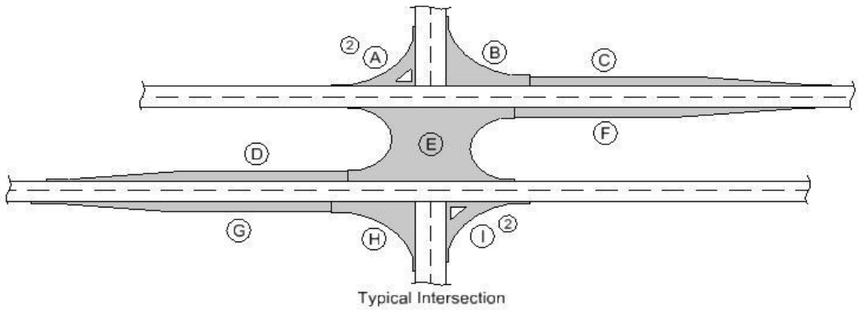
No.	Station to Station		Length LF	(Select One) Concrete BA-401	Steel BA-400	Remarks
1	6812+42.8	6816+05.0	362.5	X		Div.(1) Connect TBR to existing FastBack Bridge End Post.
			362.5			See U sheets for detail.
						TBR to remain in place at the end of the contract
		Total	362.5			

CRASH CUSHIONS

(1) Lane(s) to which the installation is adjacent.
(2) Complete this section when using the Temporary Crash Cushion bid item. Refer to BA-500
* Bid Item

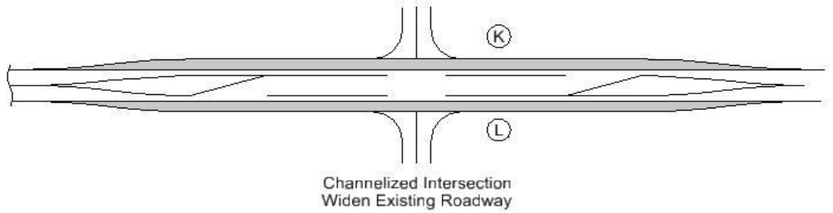
No.	(1) Direction of Traffic	Location Station	Side	Obstacle Width FT	Crash Cushion (Select One)* Temporary	Temporary Redirective	Temporary Severe Use	Permanent	Permanent Severe Use	Sand Barrel Details (2) (V) Length FT	(W) Length FT	(X) Length FT	(Y) Length FT	(Z) Length FT	Earthwork* Excavation Class 10 CY	Embankment in Place CY	Remarks
1	EB	6816+05.0	LT		X					0.0	24.3	5.3	5.3	20.0	25.0		Div.(1) To remain in place at end of contract
		Total			1												

TABULATION OF PAVEMENT

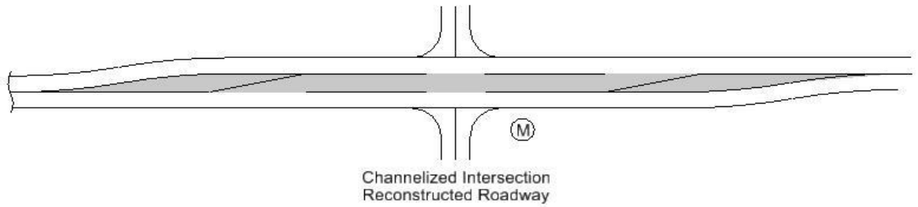


Typical Intersection

Ramp or Loop Taper (3)



Channelized Intersection
Widen Existing Roadway



Channelized Intersection
Reconstructed Roadway

(1) Quantity includes Pavement Header.

(2) Does not include Island area.

(3) Refer to PV-410, PV-411, PV-412, and PV-414.

Location						Area (1)													Total Area By Pavement Thickness SY		Island	Granular Subbase	Remarks
Road Indentification	Station to Station		Width	Length	Area	A (2)	B	C	D	E	F	G	H	I (2)	J	K	L	M	10 IN	DETOUR	SY	CY	
			FT	FT	SY														SY				
I-74	6812+58.0	6826+01.3	Var	1343.3	1375.4															1375.4			DETOUR PAVEMENT 10.5" HMA or 8.5" PCC Div.(1)
I-74	6827+61.7	6838+56.7	Var	1095.0	1690.3															1690.3			DETOUR PAVEMENT 10.5" HMA or 8.5" PCC Div.(1)
I-74	6811+76.8	6820+34.5	Var	857.7	937.0															937.0			DETOUR PAVEMENT 10.5" HMA or 8.5" PCC Div.(1)
I-74	6826+79.4	6838+03.7	Var	1124.3	762.4															762.4			DETOUR PAVEMENT 10.5" HMA or 8.5" PCC Div.(1)
		Original	Total		4765.1															4765.1			

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Earth Dam or Dike (Proposed)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Proposed Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Proposed Intake
- Existing Utility Access (Manhole)
- Proposed Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)

- ST Septic Tank
- C Cistern
- LP L.P. Gas Tank (No Footing)
- UST Underground Storage Tank
- Latrine
- Luminaire
- Traffic Signal
- Traffic Signal with Luminaire
- TP Telephone Pedestal
- TVP Television Pedestal
- Telephone Pole
- Telephone Pole (Second Company)
- Telephone Pole (Third Company)
- Telephone Pole (Fourth Company)
- Telephone Pole (Fifth Company)
- Power Pole
- Power Pole (Second Company)
- Power Pole (Third Company)
- Power Pole (Fourth Company)
- Power Pole (Fifth Company)
- Electrical Highline Tower (Metal or Concrete)
- Telephone Riser Pole
- Power Riser Pole
- Telegraph Pole
- Satellite TV Dish
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- EB Electric Box
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box

- FO Existing Fiber Optics (Central Scott)
- FO2 Existing Fiber Optics (Mcleod USA)
- FO3 Existing Fiber Optics (Qwest)
- FO4 Existing Fiber Optics (ATT)
- FO6 Existing Fiber Optics (MediaCom)
- FO8 Existing Fiber Optics (Bettendorf)
- FO9 Existing Fiber Optics (IowaDOT)
- E Existing Power Line (MidAmerican)
- E2 Existing Power Line (MidAmerican)
- E3 Existing Power Line (MidAmerican)
- E4 Existing Power Line (MidAmerican)
- E5 Existing Power Line (IowaDOT)
- G Existing Gas Line (MidAmerican)
- G-HP Existing High Pressure Gas Line (MidAmerican)
- San. Existing Sanitary Sewer Line (Bettendorf)
- San.2 Existing Sanitary Sewer Line (Davenport)
- T Existing Telephone Line (Qwest)
- TV Existing Cable Television Line (MediaCom)
- TV2 Existing Cable Television Line (MediaCom)
- W Existing Water Line (IA American)

TABULATION OF UTILITIES

102-13A
10-29-02

CENTRAL SCOTT TELEPHONE: Fiber Optics
McLEOD USA: Fiber Optics
QWEST COMMUNICATIONS: Fiber Optics, Telephone Lines
AT&T: Fiber Optics
MEDIACOM: Fiber Optics, Television
BETTENDORF: Fiber Optics
IOWA DOT: Fiber Optics, Power Lines
MIDAMERICAN ENERGY - Power Lines, Gas
BETTENDORF: Sanitary Sewer Line
DAVENPORT: Sanitary Sewer Line
IA-AMERICAN: Water Line

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS (ROAD)

LINE WORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities

SHADING	Design Color No.	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Bridge Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Pavement Shading
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS (ROAD)

LINE WORK	Design Color No.	
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

CONVENTIONAL SIGNS

- Station / Reference Point — Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail

RIGHT OF WAY LEGEND

- Proposed Right of Way
- Existing and Proposed Right of Way
- Easement and Existing Right of Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

Legend And Symbol Information Sheet

D, E, AND K SHEETS

(Symbols are Typical Only)

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.1

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2035 ADT
= 52160 VPD EB
= 51770 VPD WB

Curve Data
PI Sta 6744+71.31 (IA Sta.)
PI Sta 26+30.75 (IL Sta.)
Δ = 01°00'00.00" LT
D = 0°17'11.32"
R = 20000.00
T = 174.54
L = 349.07
E = 0.76
e = N.C.
L = NA
x = NA
m = NA

STA 26742+99.14 (I-74 EB)
=STA 6742+96.78, 14.00' LT (I-74)

PC STA 6742+96.78 (IA Sta.)
=PT STA 28+05.28 (IL Sta.)
PI Sta 6744+71.31 (IA Sta.)
PI Sta 26+30.75 (IL Sta.)

N 12°00'00.00" W

5TH AVE
4TH AVE (IL 92 WB)
EXISTING I-74
BNSF RAILROAD
3RD AVE (RIVER DR)
RIVER DR
ROAD A
RAMP 6TH-C
I-74 EB
I-74 WB
RAMP 6TH-D
PR ROW
RAMP RD-G
RAMP RD-H
21ST ST
22ND ST
FLOODPLAIN 100 YEAR
6745
40
35
30
74

0 50 FEET

For Profile Details
Refer to Next Sheet

FOR RAMPS RD-H, RD-G AND 6TH-D, REFER TO ILLINOIS PACKAGE A.
FOR RAMP 6TH-C, REFER TO ILLINOIS PACKAGE B

FOR INFORMATION ONLY | INTERSTATE 74

ENGLISH | IOWA DOT | DESIGN TEAM BENESCH | SCOTT COUNTY | PROJECT NUMBER IM-74-1(161)4--13-82 | SHEET NUMBER D.2

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+00.00

I-74 Illinois Viaduct

+61.02

IA VPI 6735+77.06 (IA Sta.)
IL VPI 35+25.00 (IL Sta.)
Elv 606.99
K = 251
Len 400.00 ft

-0.505%

-2.098%

FUTURE I-74 PGL

EXISTING GROUND AT ℄

635 630 625 620 615 610 605 600 595 590 585 580 575 570 565 560

FOR INFORMATION ONLY

INTERSTATE I-74

For Plan Details
Refer to Previous Sheet

Lt Med Rt — I-74 Illinois Viaduct — Fill

Lt Med Rt — I-74 Illinois Viaduct — Fill

610.03 609.90 609.78 609.65 609.52 609.40 609.27 609.15 609.02 608.89 608.77 608.64 608.51 608.39 608.26 608.14 608.01 607.87 607.71 607.53 607.31 607.08 606.82 606.53 606.22 605.88 605.52 605.14 604.73 604.29 603.83 603.35 602.84 602.31 601.79 601.26 600.74 600.21 599.69 599.16 598.64 598.11 597.59 597.07 596.54 596.02 595.49 594.97 594.44 593.92 593.41 592.94 592.51 592.11 591.76 591.44 591.16 590.92 590.72 590.56 590.43 590.35

41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.3

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-D-1-01B.sht.sht

2035 ADT
= 52160 VPD EB
= 51770 VPD WB

ILLINOIS JURISDICTION | IOWA JURISDICTION

BEGIN IOWA PROJECT.
BRIDGE CONSTRUCTION BY OTHERS

STA. 6746+86.92

EQUATION:
STA. 25+35.00 (IL I-74)
= STA. 6745+67.06 (IA I-74)

PT Sta 6746+45.84 (IA Sta.)
=PC Sta. 24+56.21 (IL Sta.)

6745 | 6750 | 6755

RAMP RD-G

I-74 EB

I-74 WB

RAMP RD-H

BIKE TRAIL

R=19,986'

48'

36'

50:1 TAPER

PT STA 26752+05.69 (I-74 EB)
=STA 6752+03.50, 21.78' LT (I-74)

PC STA 26755+79.54 (I-74 EB)
=STA 6755+77.21, 32.21' LT (I-74)

PI STA 26758+58.62 (I-74 EB)
=STA 6758+56.18, 40.00' LT (I-74)

PT STA 26747+52.49 (I-74 EB)
=STA 6747+50.32, 9.13' LT (I-74)

PC STA 16757+83.79 (I-74 WB)
=STA 6757+86.21, 36.95' RT (I-74)

PI STA 16759+58.32 (I-74 WB)
=STA 6759+60.72, 40.00' RT (I-74)

MISSISSIPPI RIVER

0 FEET 50

For Profile Details
Refer to Next Sheet

FOR RAMPS RD-H, RD-G AND 6TH-D, REFER TO ILLINOIS PACKAGE A.
FOR RAMP 6TH-C, REFER TO ILLINOIS PACKAGE B

FOR INFORMATION ONLY

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.4

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EQUATION:
STA. 25+35.00 (IL I-74)
= STA. 6745+67.06 (IA I-74)

FUTURE I-74 PGL

+2.200%

IA VPI 6745+52.06 (IA Sta.)
IL VPI 25+50.00 (IL Sta.)
Elv 586.53
K = 163
Len 700.00 ft

EXISTING GROUND AT ℄

635 630 625 620 615 610 605 600 595 590 585 580 575 570 565 560

Lt
Med
Rt

Fill

Fill

I-74 Mississippi River Crossing

I-74 Mississippi River Crossing

590.43 590.35 590.30 590.29 590.32 590.39 590.49 590.64 590.82 591.04 591.30 591.59 591.93 592.30 592.72 593.17 593.66 594.18 594.73 595.28 595.83 596.38 596.93 597.48 598.03 598.58 599.13 599.68 600.23 600.78 601.33 601.88 602.43 602.98 603.53 604.08 604.63 605.18 605.73 606.28 606.83 607.38 607.93 608.48 609.03 609.58 610.13 610.68 611.23 611.78 612.33 612.88 613.43 613.98 614.53 615.08 615.63 616.18 616.73 617.28 617.83 618.38

26 6746 6747 6748 6749 6750 6751 6752 6753 6754 6755 6756 6757 6758 6759 6760

FOR INFORMATION ONLY

INTERSTATE I-74

For Plan Details
Refer to Previous Sheet

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.5

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-D-1-01D.sht.sht

EX. I-74 EB

EX. I-74 WB

PT STA 26761+37.66 (I-74 EB)
=STA 6761+35.26, 40.00' LT (I-74)

FOR INFORMATION ONLY
SEE BRFIM-074-1(197)5--05-82
BRFIM-074-1(198)5--05-82
BRFIM-074-1(199)5--05-82
BRFIM-074-1(200)5--05-82

6760

6765

6770

6775

BIKE TRAIL

74

48'

80'

48'

PT STA 16761+32.85 (I-74 WB)
=STA 6761+35.26, 40.00' RT (I-74)

0 50
FEET

For Profile Details
Refer to Next Sheet

INTERSTATE 74

ENGLISH | IOWA DOT | DESIGN TEAM BENESCH | SCOTT COUNTY | PROJECT NUMBER IM-74-1(161)4--13-82 | SHEET NUMBER D.6

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I-74 Mississippi River Crossing

+00.00 +00.00

660 655 650 645 640 635 630 625 620 615 610 605 600 595 590 585

VPI +75.00
Elv 644.23
K = 250
Len 1250.00 ft

+2.200%

-2.800%

FUTURE I-74 PGL

INTERSTATE I-74

For Plan Details
Refer to Previous Sheet

Lt Med Rt

I-74 Mississippi River Crossing

I-74 Mississippi River Crossing

618.93 619.48 620.03 620.58 621.13 621.68 622.23 622.78 623.33 623.88 624.43 624.98 625.53 626.08 626.63 627.18 627.73 628.28 628.83 629.38 629.93 630.48 631.02 631.53 632.02 632.48 632.92 633.33 633.72 634.08 634.42 634.73 635.02 635.28 635.52 635.73 635.92 636.08 636.22 636.33 636.42 636.48 636.52 636.53 636.52 636.48 636.42 636.33 636.22 636.08 635.92 635.73 635.52 635.28 635.02 634.73 634.42 634.08 633.72 633.33

6760 6761 6762 6763 6764 6765 6766 6767 6768 6769 6770 6771 6772 6773 6774 6775

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **D.7**

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-D-1-02.sht

DAVENPORT TWP.
T-78 N R-4 E
SEC. 32

EX. I-74 EB

EX. I-74 WB

EX. GILBERT ST

6775

6780

6785

6790

BIKE TRAIL

(U.A.C)
Sta. 6787+82.00
15"x68" RCP

EX. 15TH ST

EX. GILBERT ST

0 FEET 50

For Profile Details
Refer to Next Sheet

MAINLINE PLAN

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.8

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+00.00

I-74 Mississippi River Crossing

+16.00

635 630 625 620 615 610 605 600 595 590 585 580 575 570 565 560

I-74 PGL

-2.800%

END BRIDGE CONSTRUCTION BY OTHERS

VPI +00.00
Elv 593.13
K = 148
Len 500.00 ft

EXISTING GROUND AT ℄

R.R. TRACKS

EXISTING
GILBERT ST

INTERSTATE I-74

For Plan Details
Refer to Previous Sheet

Lt
Med
Rt

I-74 Mississippi River Crossing (Use As Constructed)

I-74 Mississippi River Crossing (Use As Constructed)

632.92 632.48 632.02 631.53 631.02 630.48 629.92 629.33 628.72 628.08 627.42 626.73 626.03 625.33 624.63 623.93 623.23 622.53 621.83 621.13 620.43 619.73 619.03 618.33

6775 6776 6777 6778 6779 6780 6781 6782 6783 6784 6785 6786 6787 6788 6789 6790

ENGLISH | IOWA DOT | DESIGN TEAM BENESCH | SCOTT COUNTY | PROJECT NUMBER IM-74-1(161)4--13-82 | SHEET NUMBER D.9

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-D-1-04.sht

DAVENPORT TWP.
T-78 N R-4 E
SEC. 29

Curve 21015 (I-74)
PI Sta 6801+41.31
R = 03°50'58.23" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

Curve 21017 (I-74 EB)
PI Sta 26805+14.75
R = 03°50'58.22" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

EX. STATE ST
EX. 14TH ST
EX. 15TH ST
EX. I-74 ENT. RAMP
EX. BROWN ST
EX. MISSISSIPPI BLVD.
PROPOSED MEDIAN FILL

6790
6795
6800
6805

PC Sta 6796+70.83

PC STA. 26800+44.27 (I-74 EB)
=POC STA. 6800+42.84, 35.07 LT (I-74)

PI STA. 16797+67.87 (I-74 WB)
=STA. 6797+70.00, 40.35 RT (I-74)

PI Sta 6801+41.31

PI STA. 26805+14.75 (I-74 EB)
=STA. 6805+13.74, 14.66 LT (I-74)

PC STA. 16792+97.39 (I-74 WB)
=POC STA. 6792+99.80, 40.00 RT (I-74)

PT STA. 16802+38.00 (I-74 WB)
=POC STA. 6802+39.05, 19.96 RT (I-74)

POT STA. 6802+94.47 (I-74)
=POT STA. 14+35.64 (MISSISSIPPI BLVD)

Curve 21016 (I-74 WB)
PI Sta 16797+67.87
R = 03°50'58.24" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

0 FEET 50

For Profile Details
Refer to Next Sheet

MAINLINE PLAN

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.10

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+50.00

CL 10 Cut = 3121 CY
Borrow = 3691 CY
6812 CY

Fill + 30% = 6812 CY
6812 CY

+00.00

635 630 625 620 615 610 605 600 595 590 585 580 575 570 565 560

EXISTING US 67 NB
EXISTING US 67 SB

EXISTING GROUND AT ℄
6799+50 575.70
6800+25 575.25
6800+75 574.75
-0.6%
-1.0%
+8%
6799+50 575.38
-0.60%
-5.92%
6799+75 573.9
6800+75 573.30
+0.80%
6801+00 572.80
+0.50%
+0.50%
+0.66%
+0.76%
6802+00 573.30
INV. 574.45
INV. 573.55

EXISTING GROUND AT ℄
EXISTING MISSISSIPPI BLVD

INTERSTATE I-74

For Plan Details
Refer to Previous Sheet

Lt
Med
Rt

(Use As Constructed)
(Use As Constructed)
(Use As Constructed)

Ditch Grade
(Use As Constructed)
Ditch Grade

Culvert
(Use As Constructed)
Culvert
Ditch Grade
Ditch Grade

578.45 586.07 587.62 589.35 587.33

6790 6791 6792 6793 6794 6795 6796 6797 6798 6799 6800 6801 6802 6803 6804 6805

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.11

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-D-1-06.sht

DAVENPORT TWP.
T-78 N R-4 E
SEC. 29

EX. MISSISSIPPI BLVD

PI STA. 26805+14.75 (I-74 EB)
=STA. 6805+13.74, 14.66 LT (I-74)

PROPOSED MEDIAN FILL

PT Sta 6806+11.44

6805

6810

PT STA. 26809+84.88 (I-74 EB)
=POC STA. 6809+84.33, 15.00 LT (I-74)

+58.02

+76.82

STA. 6814+29, 58.00' LT
END TBR TAPER

6815

PROPOSED SHOULDER STRENGTHENING

STA. 6816+08, 58.00' LT
END TBR
INSTALL CRASH CUSHION

6820

+34.50

STA. 6812+37, 52.63' LT
BEGIN TBR TAPER
CONNECT TO EXIST. BARRIER

EX. I-74 EXIT RAMP

EX. I-74 ENT. RAMP

EX. E KIMBERLY RD

EX. CALVERT DRIVE

(U.A.C)
Sta. 6805+75.00
64'x15" RCP

EX. 14TH ST

0 FEET 50

For Profile Details
Refer to Next Sheet

MAINLINE PLAN

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.12

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-D-1-07.sht

+00.00

CL 10 Cut = 364 CY
Borrow = 22,348 CY
22,712 CY

Fill + 30% = 22,712 CY
22,712 CY

+00.00 +00.00

PROPOSED SHOULDER STRENGTHENING

+00.00

645 640 635 630 625 620 615 610 605 600 595 590 585 580 570

6809+00 597.56 +7.40%
6809+10 598.30
6808+75 595.14 +9.68%
6808+50 593.05 +8.36%
EXISTING GROUND AT ℄
6810+30 594.09
XISTING ALVERT DRIVE
902 6805+86.50 EL.589.29
+1.43%
RIGHT DITCH PROFILE
+4.00%
LEFT DITCH PROFILE
+1.05%
6808+25 586.00
783 6805+10.53 EL.582.70

INTERSTATE I-74

For Plan Details
Refer to Previous Sheet

Lt	Culvert	Ditch Grade	(Use As Constructed)	Lt
Med	(Use As Constructed)		(Use As Constructed)	Med
Rt	Culvert	Ditch Grade	(Use As Constructed)	Rt

584.31 591.78 592.39 593.25 594.65 595.84 597.28 598.69 600.42 601.77 601.19 605.74 614.64 621.56

6805 6806 6807 6808 6809 6810 6811 6812 6813 6814 6815 6816 6817 6818 6819 6820

ENGLISH | IOWA DOT | DESIGN TEAM **BENESCH** | **SCOTT** COUNTY | PROJECT NUMBER **IM-74-1(161)4--13-82** | SHEET NUMBER **D.13**

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-D-1-08.sht

DAVENPORT TWP.
T-78 N R-4 E
SEC. 29

Refer to M Sheets
for Storm Sewer Details

Curve 21020 (I-74)
PI Sta 6832+57.30
R = 04°39'39.15" RT
D = 0°14'56.80"
R = 23000.00
T = 936.01
L = 1871.00
E = 19.04
e = N.C.
L = NA
x = NA
m = NA

Curve 21022 (I-74 EB)
PI STA. = 26832+58.47
Δ = 4° 39' 39" (RT)
D = 0° 14' 56"
R = 23,015.00'
T = 936.62'
L = 1,872.22'
E = 19.05'
e = N.C.
L = NA
x = NA
m = NA

PC STA. 26823+21.85 (I-74 EB)
=STA. 6823+21.29, 15.00' LT (I-74)

PI STA. 26832+58.47 (I-74 EB)
=STA. 6832+56.79, 34.05' LT (I-74)

EX. HIGHLAND PARK DR

EX. KIMBERLY RIDGE RD

EX. I-74 EXIT RAMP

6820

6825

+01.27

+61.69

6830

PI Sta 6832+57.30

6835

+34.50

EX. I-74 ENT. RAMP

PC Sta 6823+21.29

+79.43

PROPOSED SHOULDER STRENGTHENING

PC STA. 16823+20.73 (I-74 WB)
=STA. 6823+21.29, 15.00' RT (I-74)

PI STA. 16832+56.13 (I-74 WB)
=STA. 6832+56.79, 4.03' LT (I-74)

Curve 21021 (I-74 WB)
PI STA. = 16832+56.13
Δ = 4° 39' 39" (RT)
D = 0° 14' 57"
R = 22,985.00'
T = 935.40'
L = 1,869.78'
E = 19.03'
e = N.C.
L = NA
x = NA
m = NA

EX. HIGHLAND CT

EX. HIGHLAND PARK DR

0 50
FEET

For Profile Details
Refer to Next Sheet

MAINLINE PLAN

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.14

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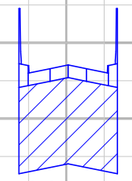
+00.00

PROPOSED SHOULDER STRENGTHENING

+00.00

690 685 680 675 670 665 660 655 650 645 640 635 630 625 620 615



EXISTING GROUND AT ℄

Lt (Use As Constructed)
Med (Use As Constructed)
Rt (Use As Constructed)

INTERSTATE I-74

For Plan Details
Refer to Previous Sheet

6820 6821 6822 6823 6824 6825 6826 6827 6828 6829 6830 6831 6832 6833 6834 6835

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER D.15

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-D-1-10.sht

DAVENPORT TWP.
T-78 N R-4 E
SEC. 20

EX. LINCOLN RD

PT STA. 26841+94.06 (I-74 EB)
=STA. 6841+92.28, 15.00' LT (I-74)

6840

6845

6835

6850

EX. I-74 ENT. RAMP

+56.70

+03.72

PROPOSED SHOULDER STRENGTHENING

PT Sta 6841+92.29

EX. I-74 EXIT RAMP

EX. MEADOW LANE DR

PT STA. 16841+90.50 (I-74 WB)
=STA. 6841+92.28, 15.00' RT (I-74)

EX. FAIRLANE DR

EX. PARKLANE DR

0 50
FEET

For Profile Details
Refer to Next Sheet

MAINLINE PLAN

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **D.16**

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+00.00

PROPOSED SHOULDER STRENGTHENING

710 705 700 695 690 685 680 675 670 665 660 655 650 645 640 635

EXISTING GROUND AT ℄

Lt (Use As Constructed)
Med (Use As Constructed)
Rt (Use As Constructed)

INTERSTATE I-74

For Plan Details
Refer to Previous Sheet

6835 6836 6837 6838 6839 6840 6841 6842 6843 6844 6845 6846 6847 6848 6849 6850

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **D.17**

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-D-1-12.sht

DATUM INFORMATION

THE DATUM PLANE FOR THIS SURVEY IS RELATIVE TO N.A.V.D. 88 DATUM. IN IOWA BENCHES WERE RUN FROM NGS BENCHMARK "DAVENPORT" TO NGS BENCHMARK "F 70 RESET". IN ILLINOIS A BENCH CHECK WAS RUN FROM NGS BENCHMARK "W 52" TO NGS BENCHMARK "Z 52", THEN DATUM WAS CARRIED SOUTH TO THE END OF PROJECT.

ALL CONTROL POINT COORDINATES SHOWN ARE LOCAL PROJECT PLANE (GROUND) COORDINATES.
CONVERSION EQUATION GRID TO GROUND: GROUND COORD = (STATE PLANE - HOLD POINT) 1/GRID FACTOR + HOLD POINT
CONVERSION EQUATION GROUND TO GRID: GRID COORD = (GROUND - HOLD POINT) GRID FACTOR + HOLD POINT

HOLD POINT = G021	NORTH	EAST	GRID FACTOR	1/GRID FACTOR
	580322.54	2455353.37	0.999936506	1.000063498

BENCH MARKS

IOWA BENCHMARKS:

			ELEVATION	NORTHING	EASTING	STATION	OFFSET
No. 500	Sta.	CHISELED "X" IN BOLT E. SIDE CONC. STRUCTURE----------	575.797	N 568688.8797	E 2458216.7809	6781+18.92	161.19' LT.
No. 501	Sta.	CHISELED "X" IN S.W. FLANGE BOLT IN FHYD----------	568.923	N 569456.8395	E 2458524.4416	6787+97.99	311.34' RT.
No. 502	Sta.	CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" FHYD----------	575.247	N 569737.4808	E 2458179.1280	6791+49.11	38.00' RT.
No. 503	Sta.	CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" FHYD----------	580.282	N 570811.0288	E 2458144.2367	6801+93.58	255.44' RT.
No. 504	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	602.945				
No. 505	Sta.	CUT "X" IN E. END OF CONC. WINGWALL----------	621.930	N 571626.0731	E 2457715.7804	6810+90.27	75.28' RT.
No. 506	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	655.749	N 572755.6346	E 2457383.6739	6822+67.60	84.84' RT.
No. 507	Sta.	CUT "X" IN HEADWALL UNDER BRIDGE----------	668.133				
No. 508	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	671.518				
No. 509	Sta.	FD. IHC BM ON N . END CONC. WALL----------	677.578				
No. 510	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	645.087				
No. 511	Sta.	FD. IHC BM ON N . END CONC. HDWL----------	638.647				
No. 512	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	631.703				
No. 513	Sta.	CUT "X" IN TOP OF CONC. F.E.S.----------	649.572				
No. 514	Sta.	FD. IHC BM ON S.E. END CONC. HDWL----------	681.022				
No. 515	Sta.	CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" FHYD----------	683.991				
No. 516	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	686.241				
No. 517	Sta.	CUT "T" IN CONC. LUMINAIRE POLE BASE----------	681.041				
No. 518	Sta.	CUT "T" IN HDWL R.C.B.----------	668.354				
No. 519	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	667.743				
No. 520	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	646.765				
No. 521	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	660.130				
No. 522	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	679.620				
No. 523	Sta.	CUT "T" IN CONC. LUMINAIRE POLE BASE----------	700.669				
No. 524	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	719.358				
No. 525	Sta.	CUT "T" IN CONC. LUMINAIRE POLE BASE----------	727.605				
No. 526	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	731.873				
No. 527	Sta.	SET R.R. SPIKE IN FENCE POST----------	738.163				
No. 528	Sta.	CUT "X" IN CONC. LUMINAIRE POLE BASE----------	733.087				
No. 529	Sta.	FD. IHC BM ON S.E. END CONC. HDWL----------	751.468				
No. 533	Sta.	CITY OF DAVENPORT B.M. BRASS MON IN CONC.----------	711.250				
No. 564	Sta.	CHISELED "□" ON LIGHT POLE FOUNDATION WITH MILE MARKER 1.2----------	701.761				
No. 565	Sta.	CHISELED "□" ON SOUTH SIDE OF LIGHT POLE FOUNDATION----------	687.923				
No. 566	Sta.	CHISELED "□" ON SOUTH SIDE OF MAST ARM FOUNDATION IN CONC. ISLAND--------	710.862				
No. 567	Sta.	CHISELED "□" ON WEST SIDE OF LIGHT POLE FOUNDATION----------	709.702				
No. 568	Sta.	CHISELED "X" ON EAST LEG OF SPRUCE HILL DR. KIMBERLY RD. 1/2 MILE EXIT SIGN	652.314				
No. 569	Sta.	CHISELED "X" ON EAST LEG OF KAPLAN UNIVERSITY EXIT 2 SIGN----------	679.946				
No. 570	Sta.	FOUND CUT "X" ON NORTH SIDE OF LIGHT POLE----------	657.126				
No. 571	Sta.	SET CHISELED "X" ON TRAFFIC SIGNAL MAST ARM WITH LIGHT----------	678.869				
No. 572	Sta.	SET CHISELED "X" ON EAST SIDE OF LIGHT POLE FOUNDATION----------	651.912				
No. 588	Sta.	SET CHISELED "X" ON WEST SIDE OF LIGHT POLE FOUNDATION----------	667.029				

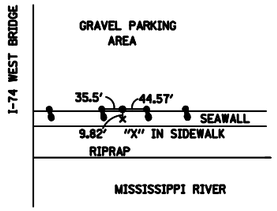
LICENSED LAND SURVEYOR
COVENTINE FIDIS NO. 9174
IOWA

I hereby certify that this plan was prepared by me or under my direct personal supervision and that I am a duly licensed Land Surveyor under the laws of the State of Iowa.

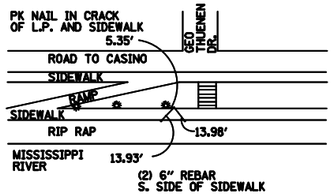
COVENTINE FIDIS DATE: 6/06/2011
License number 09174
My license renewal date is December, 2012
Pages or sheets covered by this seal: G.01, G.02, G.03, G.04 & G.05

ENGLISH	IOWA DOT	DESIGN TEAM AMERICAN SURVEYING	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER G.1	

GPS 014
IOWA D.O.T. FENO MONUMENT
XC=2458338.19 YC=568666.68

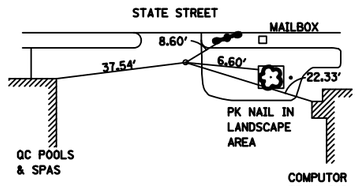


GPS 015
IOWA D.O.T. REBAR
XC=2459345.70 YC= 568727.73

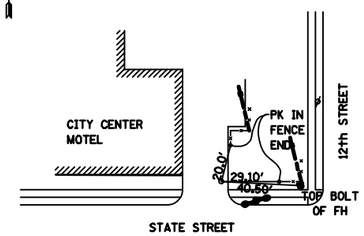


APPROXIMATELY 46' W. OF CENTER LINE OF "GEO THUENEN DR."

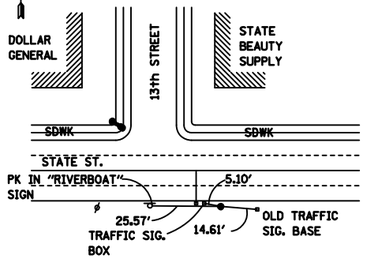
CP 126
SET 2" PK NAIL
XC=2456791.104 YC=569585.544



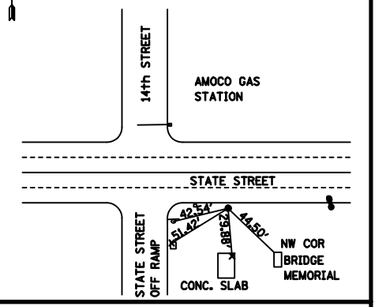
CP 127
SET 2" PK NAIL
XC=2457231.452 YC=569688.750



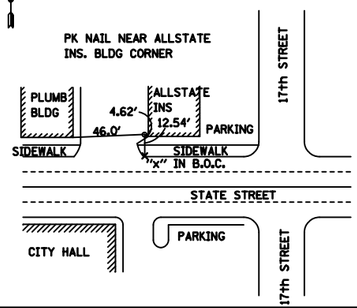
CP 120
SET REBAR
XC=2457691.529 YC=569644.244



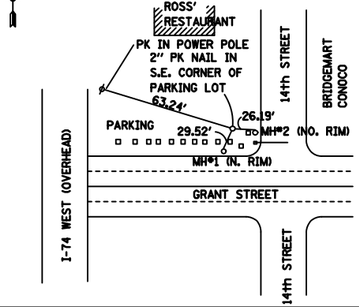
CP 121
SET REBAR
XC=2458219.673 YC=569679.278



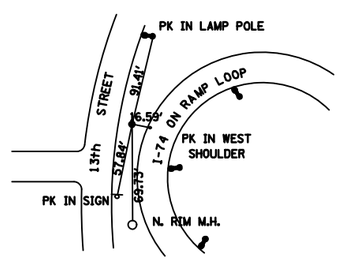
CP 128
SET PK NAIL
XC=2459161.133 YC=569812.022



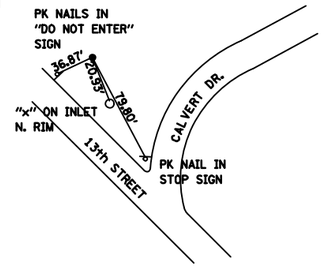
CP 122
SET PK NAIL
XC=2458088.147 YC=570141.496



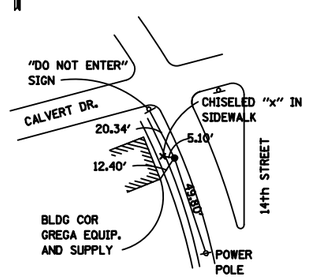
CP 119
SET REBAR
XC=2457540.364 YC=570346.488



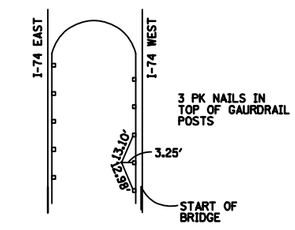
CP 125
SET REBAR
XC=2457651.639 YC=571037.636



CP 123
SET REBAR
XC=2458123.894 YC=571198.413

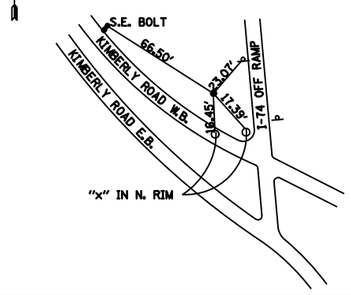


GPS 016
IOWA D.O.T. REBAR
XC=2457637.48 YC= 571682.07

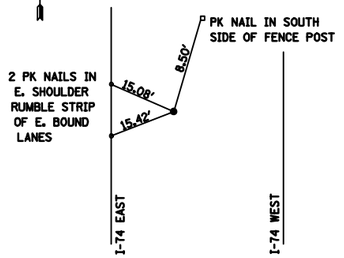


EAST OF MILE MARKER 4.6 ON I-74 EAST

CP 124
SET REBAR
XC=2457286.074 YC=571807.018

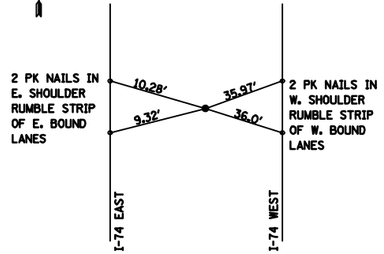


CP 118
SET REBAR
XC=2457491.401 YC=572084.946



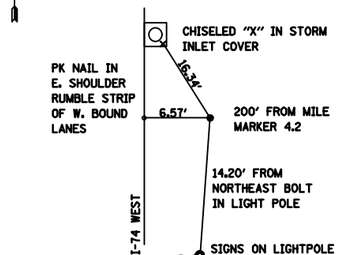
75' SOUTH OF MILE MARKER 4.5 AND 200' NORTH OF ELEVATED ROADWAY

GPS 017
IOWA D.O.T. REBAR
XC=2457220.32 YC=572958.06

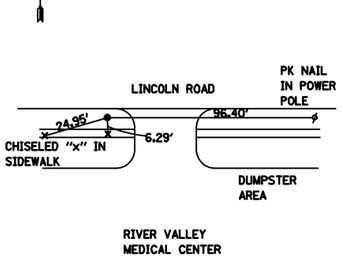


NEAR EXIT 4 SIGN BURIED 4" DEEP

CP 117
SET REBAR
XC=2457147.700 YC=573532.811

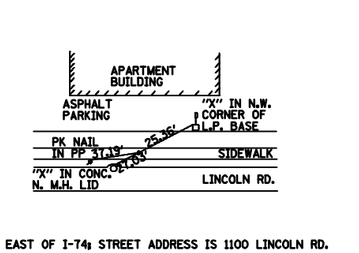


CP 136
SET REBAR
XC=2456315.473 YC=573813.232



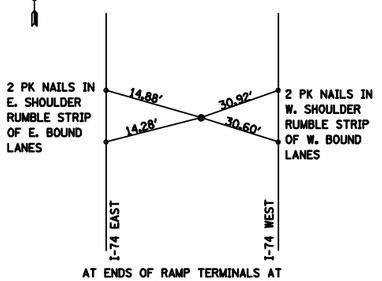
RIVER VALLEY MEDICAL CENTER

CP 159
SAWED"X"
XC=2457240.607 YC=573913.198



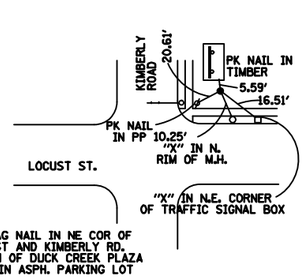
EAST OF I-74; STREET ADDRESS IS 1100 LINCOLN RD.

CP 116
SET REBAR
XC=2456893.154 YC=574220.448



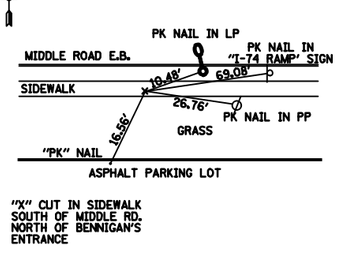
AT ENDS OF RAMP TERMINALS AT MIDDLE ROAD NEAR MILE MARKER 4.1

CP 155
SET MAG NAIL
XC=2455462.725 YC=574528.929



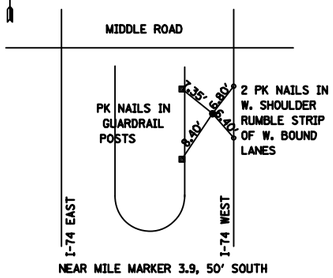
2" MAG NAIL IN NE COR OF LOCUST AND KIMBERLY RD. SOUTH OF DUCK CREEK PLAZA SIGN IN ASPH. PARKING LOT

CP 156
CUT "X"
XC=2456167.876 YC=574823.920



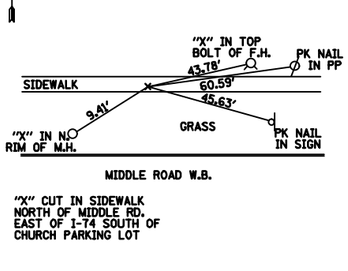
"X" CUT IN SIDEWALK SOUTH OF MIDDLE RD. NORTH OF BENNIGAN'S ENTRANCE

GPS 018
IOWA D.O.T. REBAR
XC=2456692.37 YC=575247.96



NEAR MILE MARKER 3.9, 50' SOUTH OF MIDDLE ROAD OVERPASS

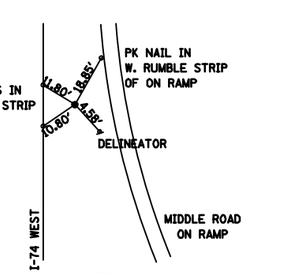
CP 157
CUT "X"
XC=2456906.769 YC=575796.341



MIDDLE ROAD W.B.

"X" CUT IN SIDEWALK NORTH OF MIDDLE RD. EAST OF I-74 SOUTH OF CHURCH PARKING LOT

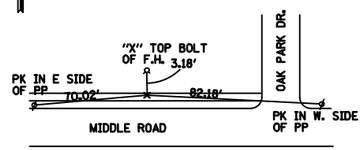
GPS 019
IOWA D.O.T. REBAR
XC=2456566.55 YC=576052.99



APPROXIMATELY 150' S. OF MILE MARKER 3.7

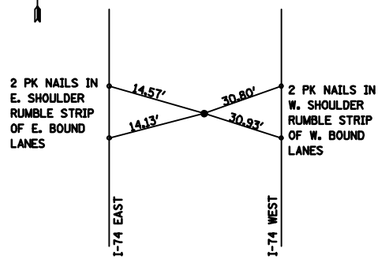
ENGLISH	IOWA DOT	DESIGN TEAM AMERICAN SURVEYING	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER G.2

CP 158
CUT "X"
XC=2457991.146 YC=576323.217



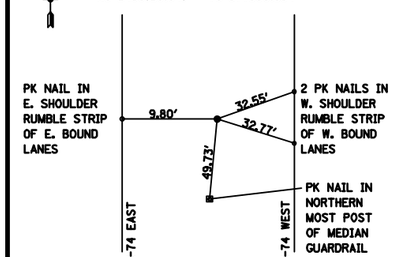
"X" CUT IN SIDEWALK NORTH OF MIDDLE RD.

CP 115
SET REBAR
XC=2456412.899 YC=576427.717



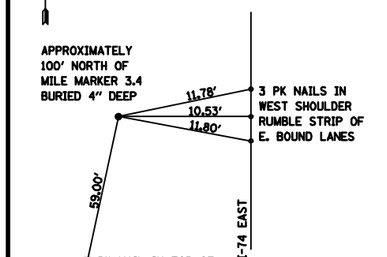
APPROXIMATELY 150' NORTH OF MILE MARKER 3.7 NEAR EXIT 3 OFF RAMP

CP 114
SET REBAR
XC=2456120.941 YC=577360.554

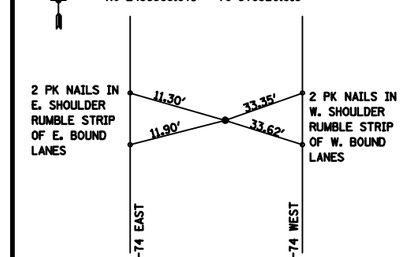


APPROXIMATELY 35' NORTH OF MILE MARKER 3.5

GPS 020
IOWA D.O.T. REBAR
XC=2455743.68 YC=577880.58

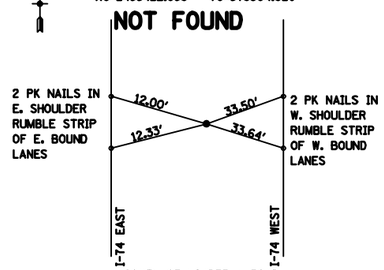


CP 113
SET REBAR
XC=2455595.871 YC=578320.913



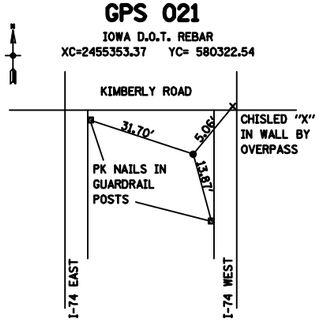
APPROXIMATELY 50' NORTH OF MILE MARKER 3.3

CP 112
SET REBAR
XC=2455422.859 YC=579304.920
NOT FOUND



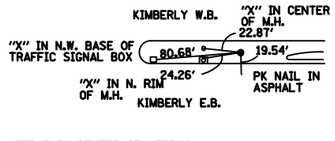
SOUTH OF KIMBERLY ROAD ON RAMP TERMINALS I-74 E.

GPS 021
IOWA D.O.T. REBAR
XC=2455353.37 YC= 580322.54



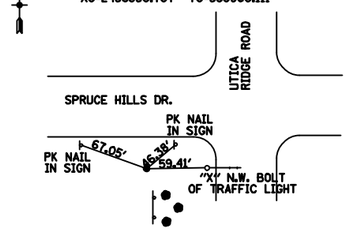
NEAR MILE MARKER 2.9 AND W. OF BM 514

CP 153
SET REBAR
XC=2453996.477 YC=580419.379



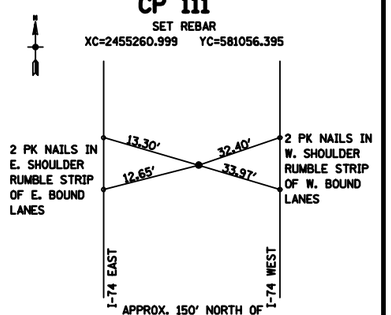
REBAR IN CENTER OF MEDIAN KIMBERLY ROAD EAST OF ELMORE AVE., WEST OF GUARDRAIL

CP 154
SET REBAR
XC=2456350.707 YC=580360.111



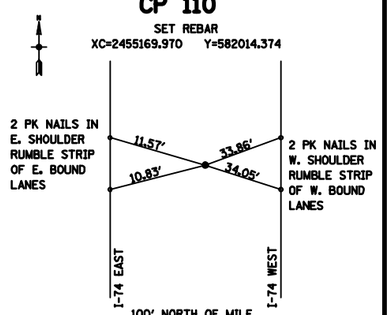
REBAR SET SW COR OF SPRUCE HILLS DR. AND UTICA RIDGE RD. NORTH OF "WELCOME TO BETTENDORF SIGN"

CP 111
SET REBAR
XC=2455260.999 YC=581056.395



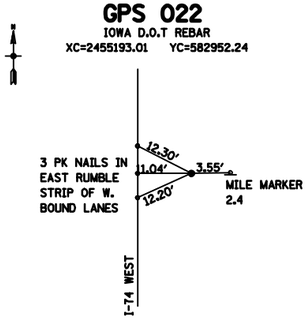
APPROX. 150' NORTH OF KIMBERLY ROAD ON RAMP I-74 W.

CP 110
SET REBAR
XC=2455169.970 Y=582014.374

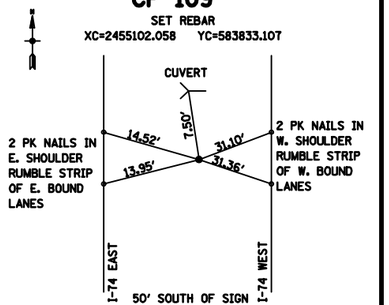


100' NORTH OF MILE MARKER 2.6

GPS 022
IOWA D.O.T REBAR
XC=2455193.01 YC=582952.24

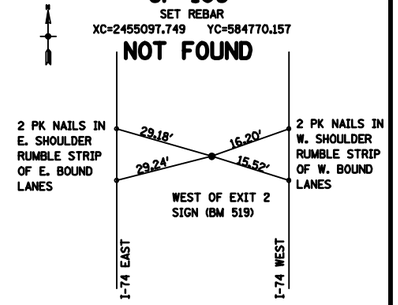


CP 109
SET REBAR
XC=2455102.058 YC=583833.107



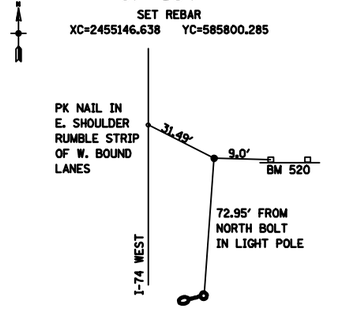
50' SOUTH OF SIGN "KAPLAN COLLEGE-FAMILY MUSEUM"

CP 108
SET REBAR
XC=2455097.749 YC=584770.157
NOT FOUND



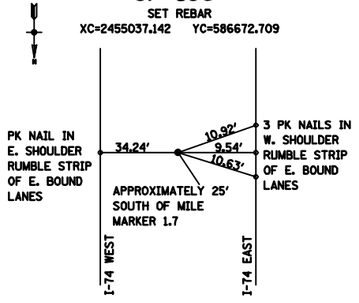
WEST OF EXIT 2 SIGN (BM 519)

CP 107
SET REBAR
XC=2455146.638 YC=585800.285

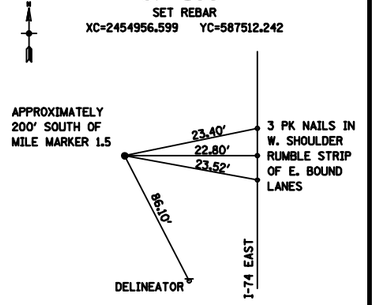


BETWEEN MILE MARKER 1.8 AND 1.9 I-74 W.

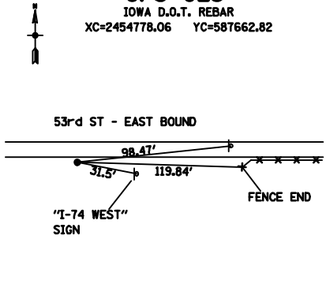
CP 106
SET REBAR
XC=2455037.142 YC=586672.709



CP 105
SET REBAR
XC=2454956.599 YC=587512.242

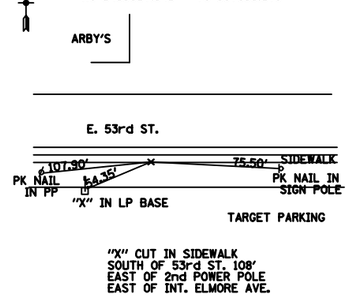


GPS 023
IOWA D.O.T. REBAR
XC=2454778.06 YC=587662.82



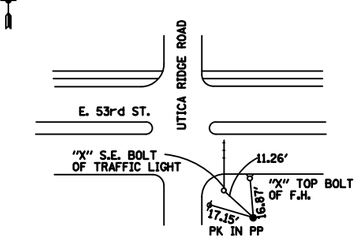
WEST OF 53rd STREET OVERPASS

CP 152
CUT "X"
XC=2453627.342 YC=587635.278

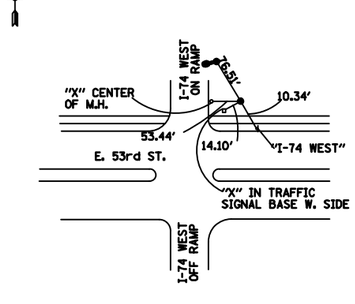


"X" CUT IN SIDEWALK SOUTH OF 53rd ST. 108' EAST OF 2nd POWER POLE EAST OF INT. ELMORE AVE.

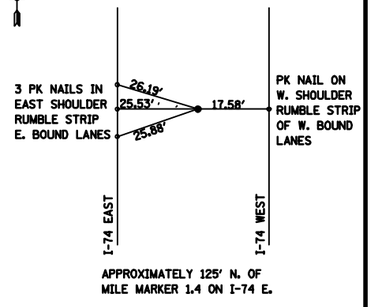
CP 151
SET REBAR
XC=2457483.715 YC=587773.383



CP 150
SET REBAR
XC=2455597.934 YC=587810.951

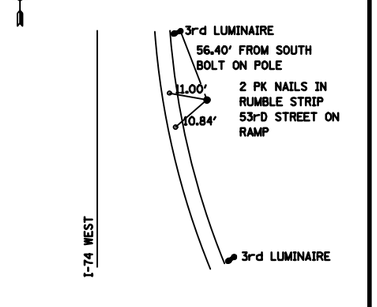


CP 104
SET REBAR
XC=2455015.457 YC=588438.914

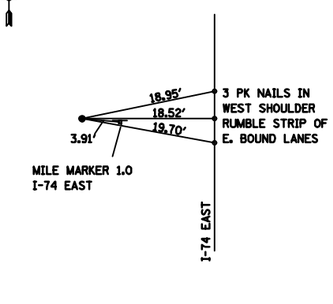


APPROXIMATELY 125' N. OF MILE MARKER 1.4 ON I-74 E.

CP 103
SET REBAR
XC=2455068.801 YC=589403.811

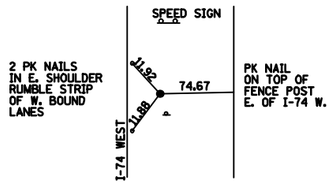


CP 102
SET REBAR
XC=2454899.731 YC=590331.226



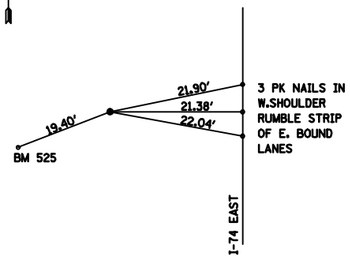
ENGLISH	IOWA DOT	DESIGN TEAM AMERICAN SURVEYING	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER G.3

GPS 024
IOWA D.O.T. REBAR
XC=2455023.00 YC=590859.10

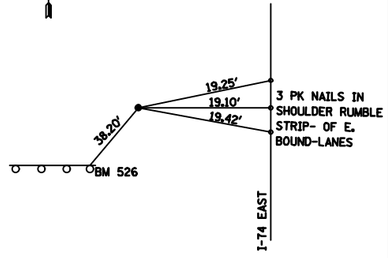


APPROXIMATELY 4' N. OF MILE MARKER 0.9

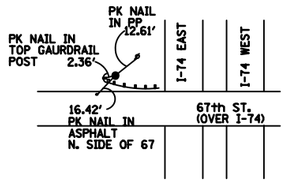
CP 101
SET REBAR
XC=2454878.922 YC=591166.229



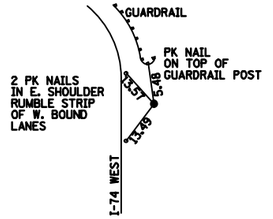
CP 100
SET REBAR
XC=2454793.567 YC=592152.404



GPS 025
IOWA D.O.T. REBAR
XC=24544447.88 YC=593043.39

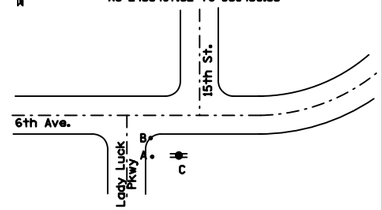


GPS 026
IOWA D.O.T. REBAR
XC=2454058.23 YC=595179.39



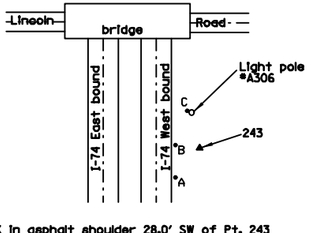
APPROXIMATELY 176' S. I-80 OVERPASS

GPS 230
Pt (5/8" Rebar) is on the right corner intersection of Lady Luck Pkwy and Gilbert St. 4.5' back of curb
XC=2458497.62 YC=569456.88



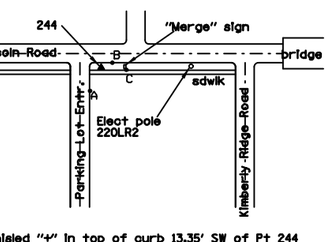
A - PK in east side of elec. post base 17.55' NW of Pt 229
B - PK in west side of first barrier post 21.55' NE of Pt 229
C - PK in east side of 10" tree 26.9' south of Pt 229

GPS 231
Pt (5/8" Rebar) is in the NW quadrant of State & 16th St. intersection approx 3.5' inside 16th St. curb
XC=2458935.33 YC=569782.48



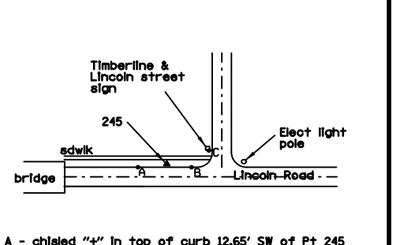
A - PK in east side of one way sign base post 3.85' NW of Pt 231
B - chisled "+" in sidewalk 7.4' west of Pt 231
C - chisled "+" in top of curb 11.8' SE of Pt 231

GPS 232
Pt (5/8" Rebar) is in the SE quadrant of State & Geo. Thuenen (16th St) intersection approx 12' inside Geo. Thuenen Dr. curb
XC=2459398.32 YC=569742.58



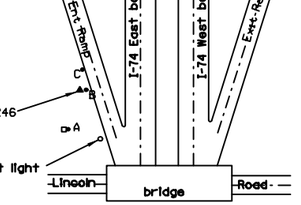
A - chisled "+" in curb 13.8' SW of Pt 232
B - chisled "+" on south fig F. hydrant bolt 4.1' NW of Pt 232
C - chisled "+" in top of inside edge of sidewalk 16.2' NE of Pt 232

GPS 233
Pt is PK in asphalt road in the SW quadrant of State St. & 12th St approx 9.4' inside curb
XC=2457259.09 YC=569614.09



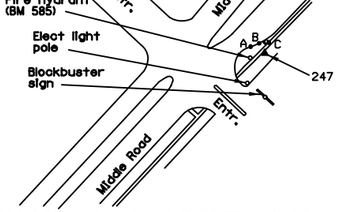
A - PK in west side of power pole base 50.85' SE of Pt 233
B - chisled "+" on edge of sidewalk 14.9' NW of Pt 233
C - chisled "+" in south edge of MH rim (strm mh #8) 29.13' NE of Pt 233

GPS 234
Pt (5/8" Rebar) is on the side of sidewalk in the NW corner of State & 10th St. approx 6.4' inside edge of curb.
XC=2456475.60 YC=569641.39



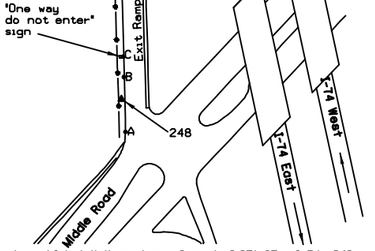
A - PK in power pole 9.5' SW of Pt 234
B - PK in south side of one way post base 5.6' NE of Pt 234
C - chisled "+" in west side of no parking post base 24.0' NE of Pt 234

GPS 235
Pt (5/8" Rebar) is in the SE quadrant of Grant & 10th St intersection approx 4.1' inside curb along 10th St.
XC=2456525.28 YC=570016.89



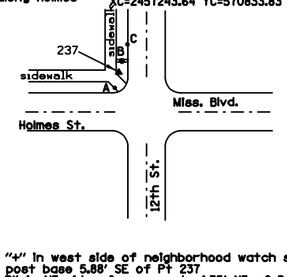
A - chisled "+" in curb 10.85' SW of Pt 235
B - west side of Grant & 10th St. post sign base 2.67' SE of Pt 235
C - chisled "+" in top of curb 8.75' NE of Pt 235

GPS 236
Pt (5/8" Rebar) is in the NW quadrant of Grant & 13th St intersection approx 8.5' NE of traffic light post.
XC=2457483.74 YC=570108.88



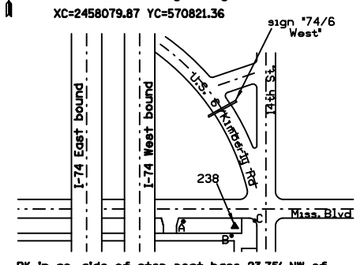
A - chisled "+" on curb 9.95' SW of Pt 236
B - chisled "+" on curb 8.5' SE of Pt 236
C - PK in west side of left leg of sign post 10.0' NE of Pt 236

GPS 237
Pt (5/8" Rebar) is in the NW quadrant of Holmes & 12th St intersection approx 7.5' north of curb along Holmes
XC=2457243.64 YC=570833.83



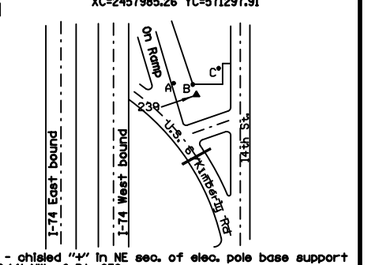
A - "+" in west side of neighborhood watch sign post base 5.88' SE of Pt 237
B - PK in NE side of power pole 4.35' NE of Pt 237
C - "+" in south side of stop sign post base 14.95' NE of Pt 237

GPS 238
Pt (5/8" Rebar)is in the SW quadrant of Miss. Blvd. & Route 6 (Kimberly Road) approx 3.7' from inside curb edge along Miss. Blvd
XC=2458079.87 YC=570821.36



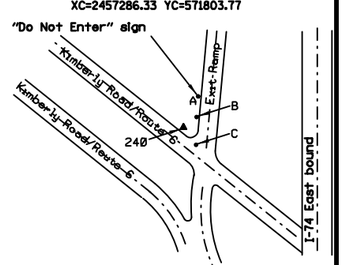
A - PK in so. side of stop post base 23.75' NW of Pt 238
B - chisled "+" in edge of sidewalk 6.2' south of Pt 238
C - chisled "+" on curb 6.4' east of Pt 238

GPS 239
Pt (5/8" Rebar) is east of Kimberly Road ramp, approx 44.5' from the curb
XC=2457985.26 YC=571297.91



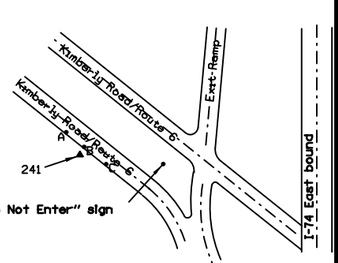
A - chisled "+" in NE sec. of elec. pole base support 30.14' NW of Pt. 239
B - chisled "+" in west side of fence post support 4.7' NW of Pt 239
C - PK in asphalt paving 17.87' NE of Pt 239

GPS 240
Pt (5/8" Rebar) is NW of intersection of I-74 exit ramp and Kimberly Road approx. 5' from curb
XC=2457286.33 YC=571803.77



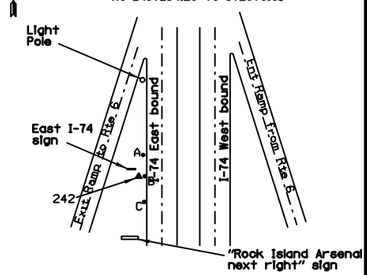
A - PK in south side of sign post 24.55' NE of Pt. 240
B - chisled "+" in MH rim 17.45' NE of Pt. 240
C - chisled "+" in MH rim 13.82' SE of Pt 240

GPS 241
Pt (5/8" Rebar) is south of Kimberly Road east bound approx 3' from the curb
XC=2456812.93 YC=572015.25



A - PK in conc. street 18.57' NW of Pt. 241
B - PK in conc. street 5.55' N of Pt. 241
C - PK in conc. street 21.65' SE of Pt 241

GPS 242
Pt (5/8" Rebar) is west of I-74 east bound approx 3.5' southeast of I-74 East sign
XC=2457254.20 YC=572670.01



A - PK in asphalt shoulder 20.4' NE of Pt. 242
B - PK in asphalt shoulder 11.5' E of Pt. 242
C - PK in asphalt shoulder 17.65' SE of Pt 242

GPS 243
Pt (5/8" Rebar) is east of I-74 west bound approx 350' south of Lincoln Road bridge
XC=2457168.01 YC=573507.71

A - PK in asphalt shoulder 28.0' SW of Pt. 243
B - PK in asphalt shoulder 21.3' NW of Pt. 243
C - chisled "+" in elec. pole #A306 base 18.85' NW of Pt 243

GPS 244
Pt (5/8" Rebar) is adjacent to Lincoln Road approx 37' west of elec pole tagged 220LR2 & 3.1' from inside edge of curb
XC=2456362.62 YC=573814.45

A - chisled "+" in top of curb 13.35' SW of Pt 244
B - chisled "+" in top of curb 4.2' NE of Pt 244
C - chisled "+" on "Merge" sign support base 10.8' NW of Pt 244

GPS 245
Pt (5/8" Rebar) is in the south edge of sidewalk approx 8' west from intersection of sidewalk and Timberline Drive
XC=2457656.70 YC=573926.06

A - chisled "+" in top of curb 12.65' SW of Pt 245
B - chisled "+" in top of curb 6.77' SE of Pt 245
C - chisled "+" on sign support base 11.91' NE of Pt 245

GPS 246
Pt (5/8" Rebar) is in west side of I-74 east bound entr. ramp approx 3.0' west of curb
XC=2456717.18 YC=574576.20

A - PK in sign post 21.7' SW of Pt. 246
B - PK in asphalt shoulder 7.45' E of Pt. 246
C - PK in asphalt shoulder 18.0' NW of Pt 246

GPS 247
Pt (5/8" Rebar) is in south edge of sidewalk approx 30' SE of fire hydrant (BM 585)
XC=2455966.91 YC=574603.34

A - chisled "+" on top of curb 23.27' NW of Pt. 247
B - chisled "+" on top of curb 17.75' North of Pt. 247
C - PK in light pole base 37.42' NE of Pt 247

GPS 248
Pt (5/8" Rebar) is west of exit ramp approx 2' from curb
XC=2456425.14 YC=575289.11

A - chisled "+" on top of curb 6.27' SE of Pt. 248
B - PK in asphalt shoulder 10.48' NE of Pt. 248
C - PK in sign post base 14.19' NW of Pt 248

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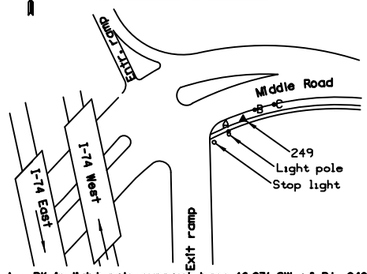
GPS 249

Pt (5/8" Rebar) is on north edge of sidewalk approx 85' west of stop light

XC=2456926.95 YC=575652.60

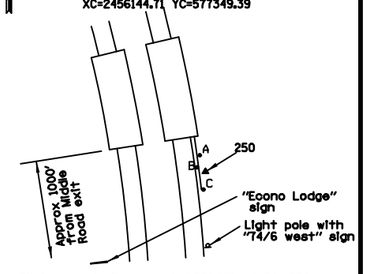


A - PK in light pole support base 16.23' SW of Pt. 249
B - chisled "+" on top of curb 6.0' NE of Pt. 249
C - chisled "+" on top of curb 10.45' NE of Pt 249

GPS 250

Pt (5/8" Rebar) is in asphalt shoulder of I-74 approx 2.5' from guardrail and 20' south of bridge

XC=2456144.71 YC=577349.39

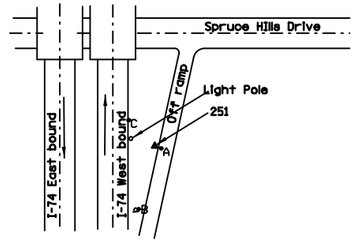


A - PK in guardrail support 6.73' NW of Pt. 250
B - PK in asphalt shoulder 5.0' W of Pt. 250
C - PK in guardrail support 19.9' SW of Pt 250

GPS 251

Pt (5/8" Rebar) is in left side of exit ramp to Spruce Hills Drive approx 14' NE of light pole #14

XC=2455523.13 YC=579197.56

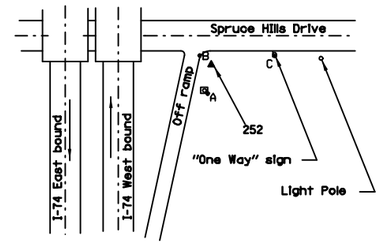


A - PK in asphalt shoulder 8.1' E of Pt. 251
B - PK in sign post base 63.32' SW of Pt. 251
C - PK in asphalt shoulder 26.3' SW of Pt 251

GPS 252

Pt (5/8" Rebar) is in right side of exit ramp to Spruce Hills Drive approx 70' SW of light pole

XC=2455934.74 YC=580350.09

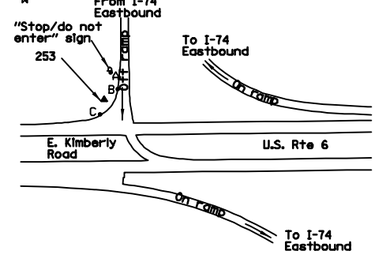


A - chisled "+" in MH conc wall 15.74' SW of Pt. 252
B - chisled "+" in asphalt shoulder 9.74' NW of Pt. 252
C - PK in sign post support base 22.8' NE of Pt 252

GPS 253

Pt (5/8" Rebar) is west of exit ramp from I-74 to Spruce Hills Drive approx 50' NE of light pole #5

XC=2454573.06 YC=580492.52

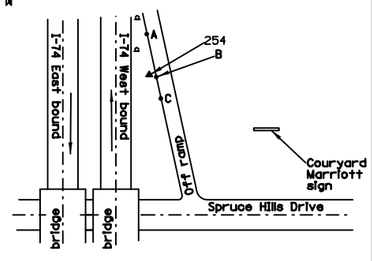


A - PK in sign post base 24.35' NE of Pt. 253
B - PK in asphalt shoulder 8.8' SE of Pt. 253
C - PK in asphalt shoulder 12.67' SW of Pt 253

GPS 254

Pt (5/8" Rebar) is west of entr. ramp from Spruce Hills Drive to I-74 approx 120' SE of merge sign

XC=2455405.58 YC=581336.46

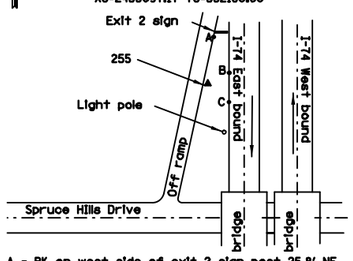


A - PK in sign post base 24.35' NE of Pt. 253
B - PK in asphalt shoulder 8.8' SE of Pt. 253
C - PK in asphalt shoulder 12.67' SW of Pt 253

GPS 255

Pt (5/8" Rebar) is east of exit 2 ramp from I-74 to Spruce Hills Drive approx 75' NW of light pole

XC=2455097.17 YC=582180.60

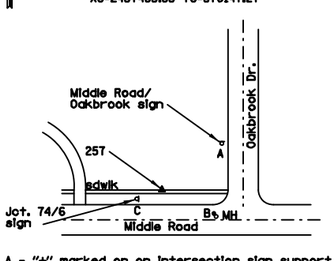


A - PK on west side of exit 2 sign post 25.8' NE of Pt. 255
B - PK in asphalt shoulder 18.42' NE of Pt. 255
C - PK in asphalt shoulder 21.58' SE of Pt 255

GPS 257

Pt (5/8" Rebar) is in north edge of sidewalk approx 9' from the back of the curb

XC=2457485.35 YC=576147.27

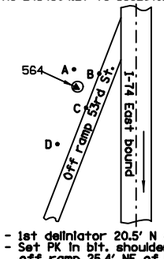


A - "+" marked on on intersection sign support base 11.5' NE of Pt. 257
B - "+" marked in MH rim 16.7' SE of Pt. 257
C - PK in Jct sign post base 41.4' SW of Pt 257

BM 564

Chis. "□" on light pole foundation with mile marker 1.2

XC=2454904.27 YC=589267.60 EL=701.761

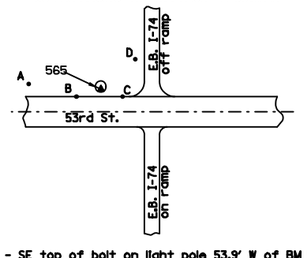


A - 1st deliniator 20.5' N of BM 564
B - Set PK in bit. shoulder of 53rd St. off ramp 25.4' NE of BM 564
C - Set PK in bit. shoulder of 53rd St. off ramp 21.1' SE of BM 564
D - 1st deliniator 80.5' S of BM 564

BM 565

Chis. "□" on south side of light pole foundation.

XC=2454440.76 YC=587747.03 EL=687.923

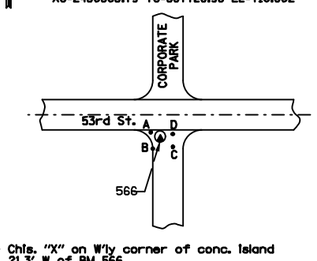


A - SE top of bolt on light pole 53.9' W of BM 565
B - Chis. "X" in curb 14.5' SW of BM 565
C - Chis. "X" in curb 14.3' SE of BM 565
D - PK in "One Way" sign post 40.8' NE of BM 565

BM 566

Chis. "□" on south side of mast arm foundation in conc. island

XC=2456363.79 YC=587728.98 EL=710.862

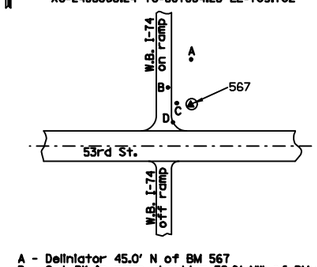


A - Chis. "X" on W'ly corner of conc. island 21.3' W of BM 566
B - Chis. "X" in W curb ent. 37.1' SW of BM 566
C - Chis. "X" on median curb 42.0' SE of BM 566
D - Chis. "X" on N end of median curb 26.2' E of BM 566

BM 567

Chis. "□" on west side of light pole foundation

XC=2455565.24 YC=587854.25 EL=709.702

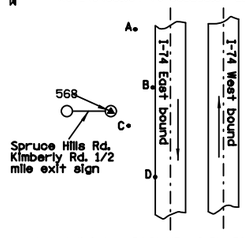


A - Deliniator 45.0' N of BM 567
B - Set PK in ramp shoulder 52.0' NW of BM 567
C - Chis. "X" in conc. slab 13.7' W of BM 567
D - Chis. "X" in curb 24.1' SW of BM 567

BM 568

Chis. "X" on east leg of "Spuce Hills Dr. Kimberly Rd. 1/2 Mile Exit Sign

XC=2454991.04 YC=585295.37 EL=652.314

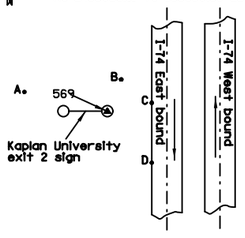


A - 1st deliniator 54.9' NE of BM 568
B - Set PK in E.B. shoulder 28.1' NE of BM 568
C - Set PK in E'ly "Speed Zone Ahead" sign post 22.8' SE of BM 568
D - Set Mag nail in E.B. shoulder 61.6' SE of BM 568

BM 569

Chis. "X" on east leg of "Kaplan University Exit 2 Sign

XC=2455026.11 YC=583690.39 EL=679.946

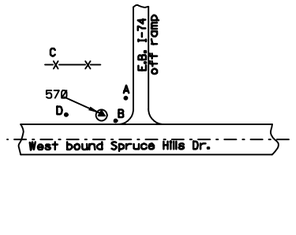


A - Brace post on R-O-W fence 93.0' NW of BM 569
B - 1st deliniator 47.1' N of BM 569
C - Set PK in E.B. I-74 shoulder 35.3' E of BM 569
D - Set PK in E.B. I-74 shoulder 54.8' SE of BM 569

BM 570

Found cut "X" on north side of light pole

XC=2454523.52 YC=580492.15 EL=657.126

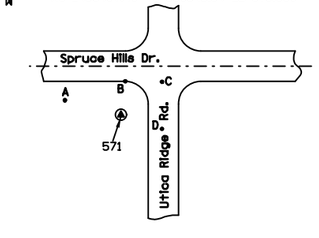


A - PK in Stop sign 72.2' NE of BM 570
B - Mag nail bit. shoulder 40.0' E of BM 570
C - Brace post in fence 107.5' NW of BM 570
D - PK in West Route 6 sign 92.4' W of BM 570

BM 571

Set chis. "X" on traffic signal mast arm with light

XC=2456407.40 YC=580345.54 EL=678.869

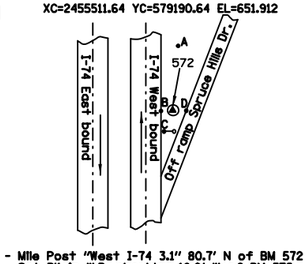


A - Control Point #154 58.5' W of BM 571
B - Chis. "X" in curb 39.6' N of BM 571
C - Chis. "X" end curb center median 58.5' NE of BM 571
D - Chis. "X" end curb center median 32.5' E of BM 571

BM 572

Set chis. "X" on east side of light pole foundation

XC=2455511.64 YC=579190.64 EL=651.912

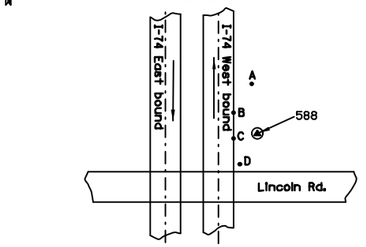


A - Mile Post "West I-74 3.1" 80.7' N of BM 572
B - Set PK in W.B. shoulder 16.0' W of BM 572
C - West post for "Exit 2" sign 48.4' S of BM 572
D - Set PK in inside shoulder of Spruce Hills off ramp 16.2' E of BM 572

BM 588

Set chis. "X" on west side of light pole foundation

XC=2456998.92 YC=574129.18 EL=667.029



A - Mile post "West I-74 4.1" 115.3' N of BM 588
B - Set PK in W.B. I-74 shoulder 35.9' NW of BM 588
C - Set PK in W.B. I-74 shoulder 23.4' SW of BM 588
D - Chis. "X" in conc. curb 43.2' SW of BM 588

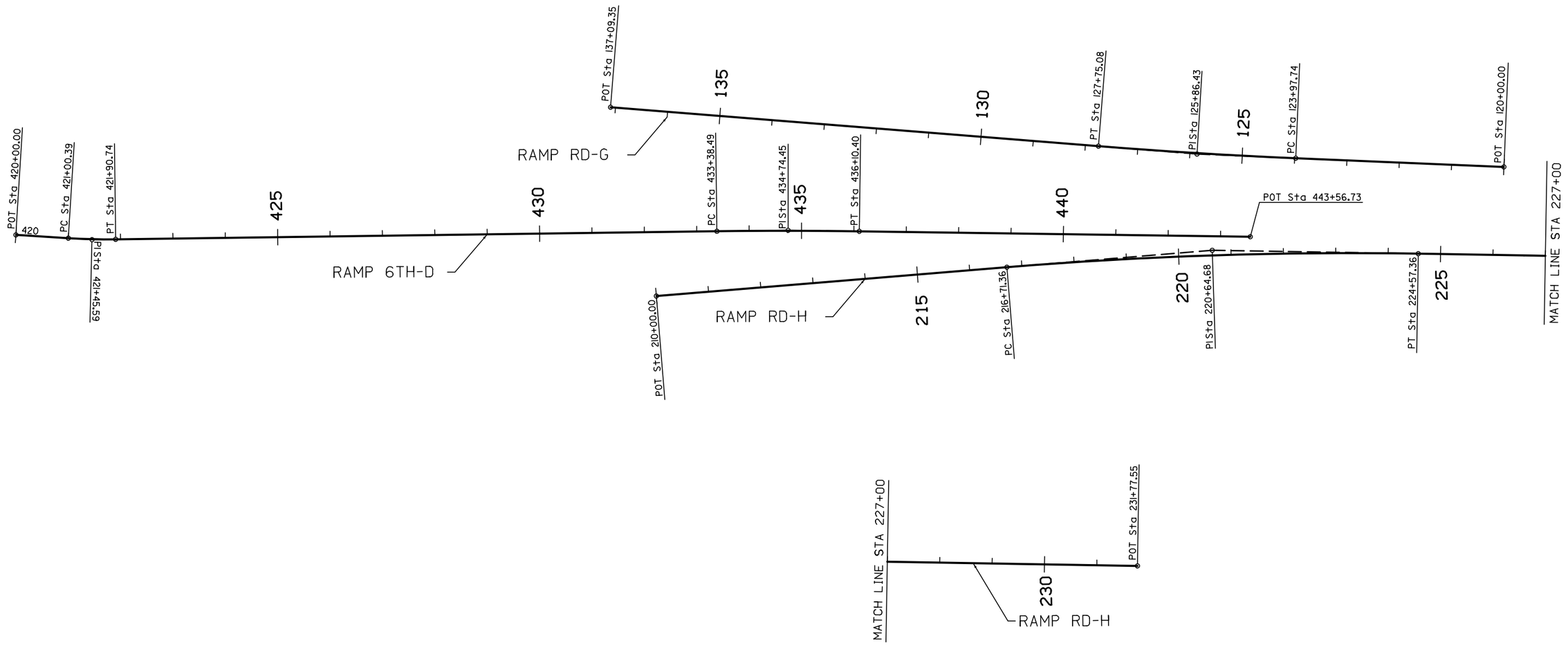
ENGLISH	IOWA DOT	DESIGN TEAM AMERICAN SURVEYING	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER G.5

Curve 6RD_IL-1 (6TH-D)
PI STA. = 421+45.59
△ = 4^ 18' 49" (LT)
D = 4^ 46' 29"
R = 1,200.00'
T = 45.19'
L = 90.35'
E = 0.85'
e = R.C.
L = NA
x = NA
m = NA

Curve 6RD_IL-2 (6TH-D)
PI STA. = 434+74.45
△ = 1^ 33' 29" (RT)
D = 0^ 34' 23"
R = 10,000.00'
T = 135.97'
L = 271.92'
E = 0.92'
e = R.C.
L = NA
x = NA
m = NA

Curve RRD-G-1 (RD-G)
PI STA. = 125+86.43
△ = 2^ 09' 43" (RT)
D = 0^ 34' 23"
R = 10,000.00'
T = 188.69'
L = 377.33'
E = 1.78'
e = N.C.
L = NA
x = NA
m = NA

Curve 3RH_IL-1 (RD-H)
PI STA. = 220+64.68
△ = 5^ 37' 46" (RT)
D = 0^ 42' 58"
R = 8,000.00'
T = 393.32'
L = 786.00'
E = 9.66'
e = R.C.
L = NA
x = NA
m = NA



ALIGNMENTS
Illinois Ramps

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER G.6

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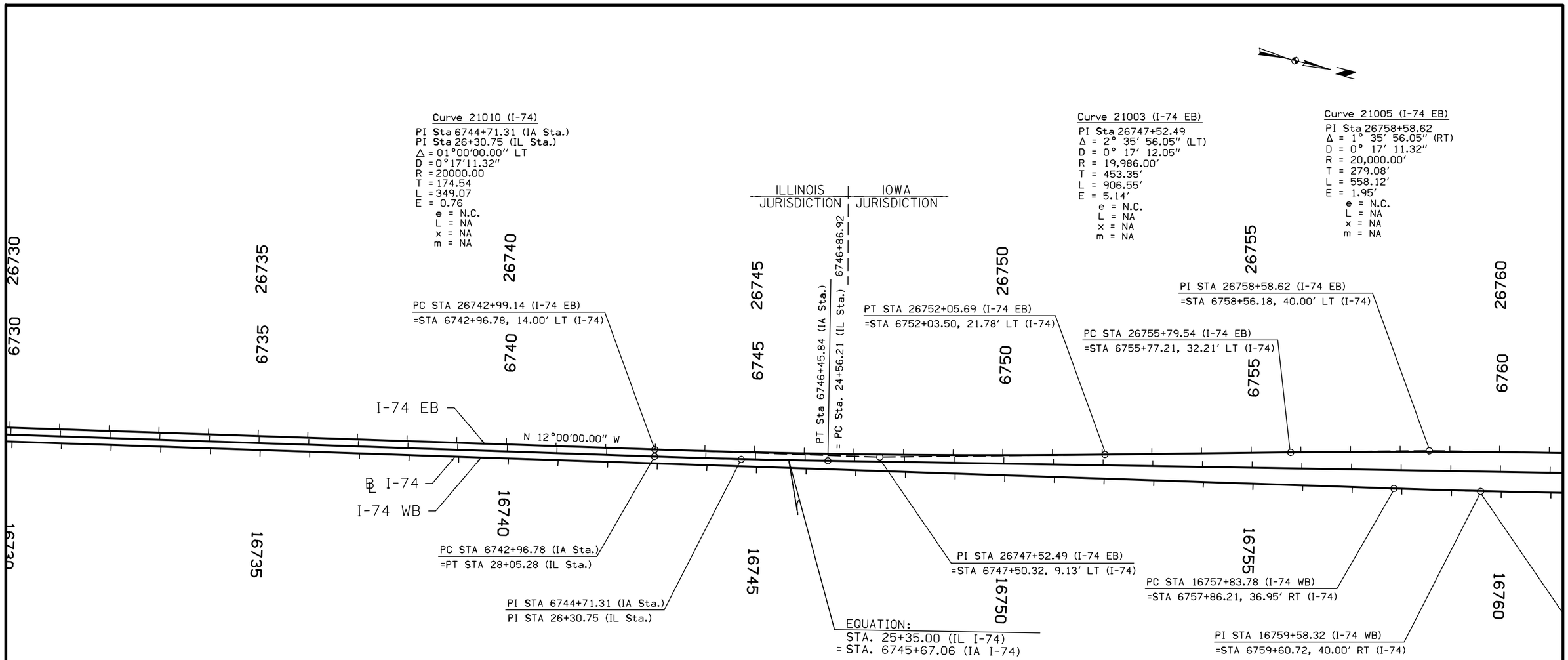

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER G.7

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26760 26765 26770 26775 26780 26785 26790

6760 6765 6770 6775 6780 6785 6790

PT STA 26761+37.66 (I-74 EB)
=STA 6761+35.26, 40.00' LT (I-74)

I-74 EB

N 13°00'00.00" W

80'

N 13°00'00.00" W

N 13°00'00.00" W

I-74 WB

℄ I-74

16759

16765

PT STA 16761+32.85 (I-74 WB)
=STA 6761+35.26, 40.00' RT (I-74)

16760 16770 16775 16780 16785 16790

PI STA 16759+58.32 (I-74 WB)
=STA 6759+60.72, 40.00' RT (I-74)

0 100
FEET

ALIGNMENTS

I-74 Mainline

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **G.8**	

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Curve 21015 (I-74)
PI Sta 6801+41.31
△ = 03°50'58.23" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

Curve 21017 (I-74 EB)
PI Sta 26805+14.75
△ = 03°50'58.22" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

26790 6790 26795 6795 26800 6800 26805 6805 26810 6810 26815 6815

PC STA. 26800+44.27 (I-74 EB)
=POC STA. 6800+42.84, 35.07 LT (I-74)

PT STA. 16802+38.00 (I-74 WB)
=POC STA. 6802+39.05, 19.96 RT (I-74)

PI STA. 26805+14.75 (I-74 EB)
=STA. 6805+13.74, 14.66 LT (I-74)

PT STA. 26809+84.88 (I-74 EB)
=POC STA. 6809+84.33, 15.00 LT (I-74)

PC Sta 6796+70.83

PT Sta 6806+11.44

I-74 EB

℄ I-74

I-74 WB

VARI

3D

N 16°50'58.23" W
N 16°50'58.23" W
N 16°50'58.23" W

PI Sta 6801+41.31

PI STA. 26805+14.75 (I-74 EB)
= STA. 6805+13.74, 14.66 LT (I-74)

16790 16795 16800 16805 16810 16815

PI STA. 16797+67.87 (I-74 WB)
=STA. 6797+70.00, 40.35 RT (I-74)

PC STA. 16792+97.39 (I-74 WB)
=POC STA. 6792+99.80, 40.00 RT (I-74)

POT STA. 6802+94.47 (I-74)
=POT STA. 14+35.64 (MISSISSIPPI BLVD)

Curve 21016 (I-74 WB)
PI Sta 16797+67.87
△ = 03°50'58.24" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

0 FEET 100

ALIGNMENTS

I-74 Mainline

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **G.9**

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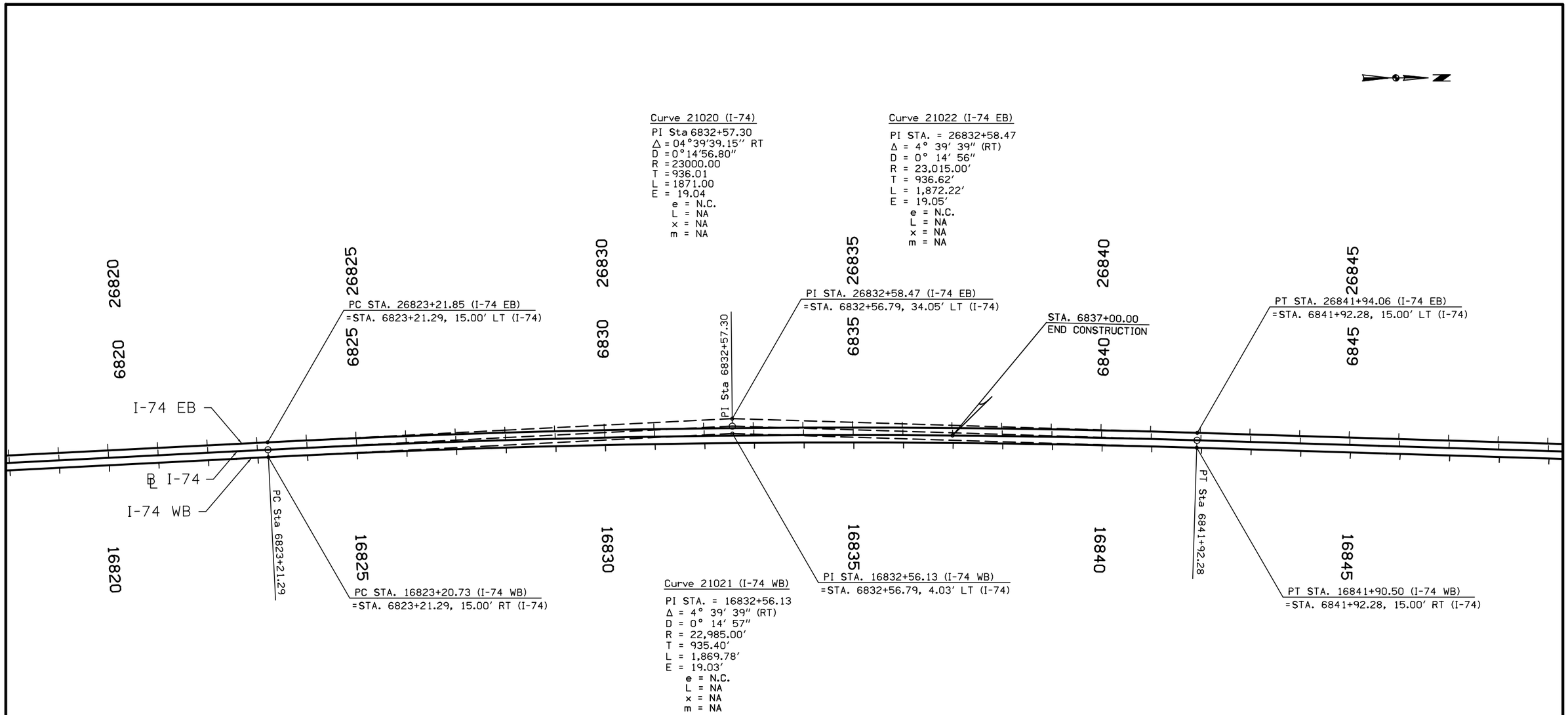


ALIGNMENTS

I-74 Mainline

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **G.10**

ALIGNMENT COORDINATES

101-16
10-20-09

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
POT 21009	I-74 MAINLINE	6719+17.38	562672.89	2459725.37															
CURVE 21010	I-74 MAINLINE							6742+96.78	565000.29	2459230.66	6744+71.31	565171.01	2459194.38	6746+45.84	565341.08	2459155.11			
CURVE 21015	I-74 MAINLINE							6796+70.83	570237.28	2458024.74	6801+41.31	570695.70	2457918.90	6806+11.44	571145.99	2457782.53			
CURVE 21020	I-74 MAINLINE							6823+21.29	572782.43	2457286.91	6832+57.30	573678.26	2457015.60	6841+92.28	574593.17	2456817.98			
POT 21001	I-74 EB	26722+61.55	563004.32	2459640.61															
CURVE 21003	I-74 EB							26742+99.14	564997.38	2459216.97	26747+52.49	565440.83	2459122.71	26752+05.69	565879.54	2459008.44			
CURVE 21005	I-74 EB							26755+79.54	566241.33	2458914.21	26758+58.62	566511.40	2458843.87	26761+37.66	566783.32	2458781.09			
CURVE 21017	I-74 EB							26800+44.27	570589.80	2457902.30	26805+14.75	571048.23	2457796.46	26809+84.88	571498.51	2457660.09			
CURVE 21022	I-74 EB							26823+21.85	572778.08	2457272.56	26832+58.47	573674.49	2457001.07	26841+94.06	574590.00	2456803.32			
POT 21000	I-74 WB	16722+56.30	563010.14	2459668.00															
CURVE 21001	I-74 WB							16757+83.78	566460.53	2458934.59	16759+58.32	566631.26	2458898.31	16761+32.85	566801.32	2458859.04			
CURVE 21016	I-74 WB							16792+97.39	569884.75	2458147.18	16797+67.87	570343.18	2458041.34	16802+38.00	570793.46	2457904.97			
CURVE 21021	I-74 WB							16823+20.73	572786.78	2457301.27	16832+56.13	573682.02	2457030.14	16841+90.50	574596.34	2456832.64			
POT RRDG1	RAMP RD-G	120+00.00	566229.23	2458867.76															
CURVE RRD-G-1	RAMP RD-G							123+97.74	565839.53	2458947.34	125+86.43	565654.65	2458985.09	127+75.08	565468.49	2459015.84			
POT RRDG2	RAMP RD-G	137+09.35	564546.70	2459168.10															
POT RRDH1	RAMP RD-H	210+00.00	564718.25	2459496.40															
CURVE 3RH IL-1	RAMP RD-H							216+71.36	565354.44	2459281.94	220+64.68	565727.15	2459156.30	224+57.36	566110.38	2459067.82			
POT RRDH2	RAMP RD-H	231+77.55	566812.12	2458905.81															
POT RSIXD1	RAMP 6TH-D	420+00.00	563503.63	2459677.85															
CURVE 6RD IL-1	RAMP 6TH-D							421+00.39	563602.38	2459659.74	421+45.59	563646.83	2459651.59	421+90.74	563690.55	2459640.12			
CURVE 6RD IL-2	RAMP 6TH-D							433+38.49	564800.71	2459348.80	434+74.45	564932.22	2459314.29	436+10.40	565064.62	2459283.36			
POT RSIXD2	RAMP 6TH-D	443+56.73	565791.39	2459113.63															

SPIRAL OR CIRCULAR CURVE DATA

101-17
04-19-11

Name	Location	Δ_{scs}	Horizontal Alignment Data												Remarks
			Spiral Data								Curve Data				
			θs	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	Δ_c	T	L	R	E	
CURVE 21010	I-74 MAINLINE										1°00'00.00" LT	174.54'	349.07'	20,000.00'	0.76'	
CURVE 21015	I-74 MAINLINE										3°50'58.23" LT	470.48'	940.61'	14,000.00'	7.90'	
CURVE 21020	I-74 MAINLINE										4°39'39.15" RT	936.01'	1,871.00'	23,000.00'	19.04'	
CURVE 21003	I-74 EB										2°35'56.05" LT	453.35'	906.55'	19,986.00'	5.14'	
CURVE 21005	I-74 EB										1°35'56.05" RT	279.08'	558.12'	20,000.00'	1.95'	
CURVE 21017	I-74 EB										3°50'58.22" LT	470.48'	940.61'	14,000.00'	7.90'	
CURVE 21022	I-74 EB										4°39'39.15" RT	936.62'	1,872.22'	23,015.00'	19.05'	
CURVE 21001	I-74 WB										1°00'00.00" LT	174.54'	349.07'	20,000.00'	0.76'	
CURVE 21016	I-74 WB										3°50'58.24" LT	470.48'	940.61'	14,000.00'	7.90'	
CURVE 21021	I-74 WB										4°39'39.15" RT	935.40'	1,869.78'	22,985.00'	19.03'	
CURVE RRD-G-1	RAMP RD-G										2°09'43.09" RT	188.69'	377.33'	10,000.00'	1.78'	
CURVE 3RHIL-1	RAMP RD-H										5°37'45.59" RT	393.32'	786.00'	8,000.00'	9.66'	
CURVE 6RDIL-1	RAMP 6TH-D										4°18'49.27" LT	45.19'	90.35'	1,200.00'	0.85'	
CURVE 6RDIL-2	RAMP 6TH-D										1°33'28.68" RT	135.97'	271.91'	10,000.00'	0.92'	

ALIGNMENTS
Iowa Mainline

PARCEL OWNERSHIP

312 - KIETH A. HALL 324 - MILES NEBRASKA, L.L.C. 325 - MARILYN SEIBEL TRUST 326 - W. DAVID RIPLEY, REBA S. RIPLEY

327 - THOMAS L. QUIGLEY JR. (STATE OF IOWA) 342 - W. DAVID RIPLEY, REBA S. RIPLEY 343 - THOMAS D. VOSS (STATE OF IOWA) 345 - SOULTS REAL ESTATE, L.L.C.

346 - B.O.R.G. ENTERPRISES 353 - GREGORY POLEY (STATE OF IOWA) 353 - GREGORY POLEY (STATE OF IOWA) 368 - WEINDRUCH MEADE, INC. (STATE OF IOWA)

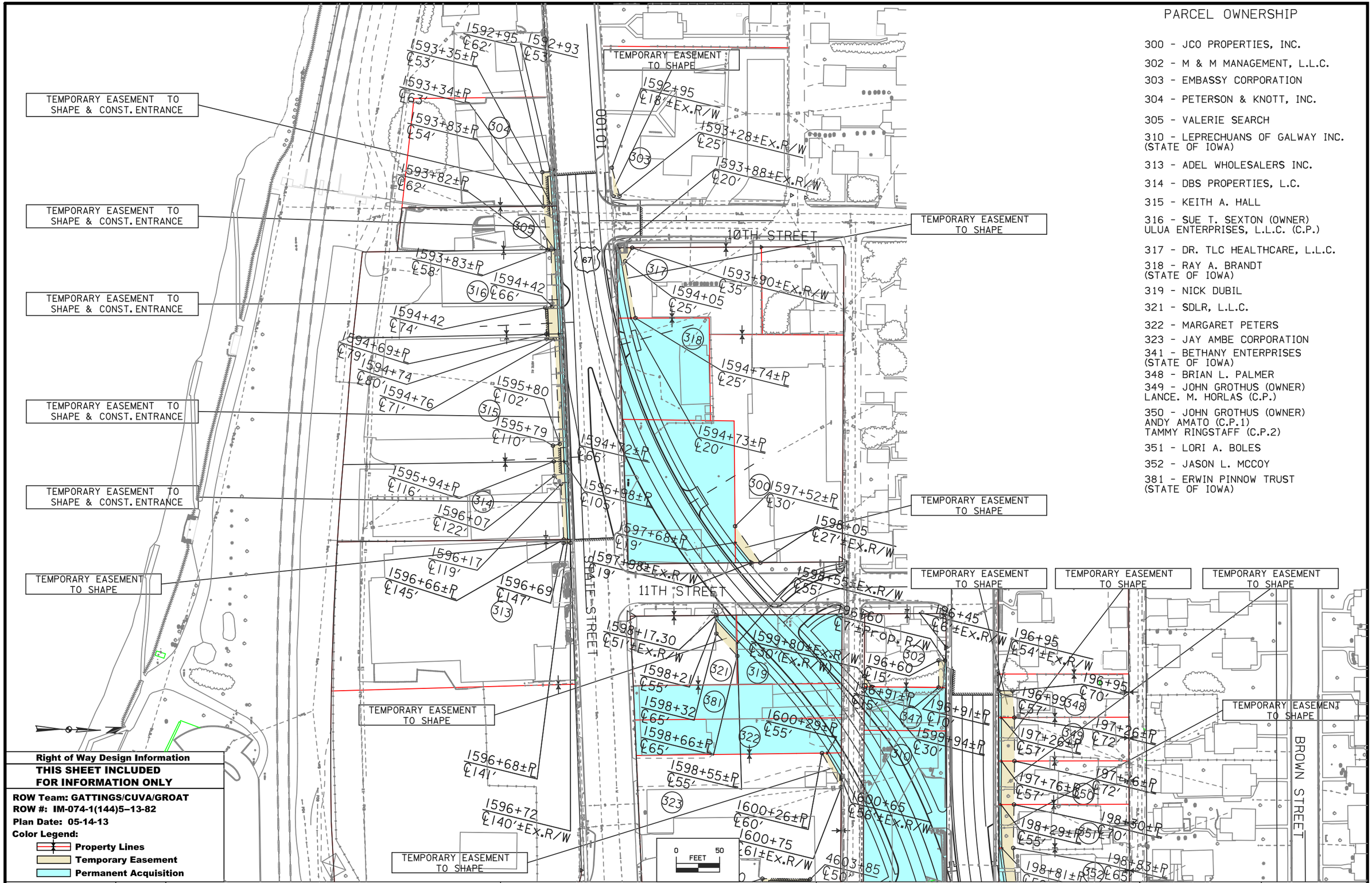
369 - WEINDRUCH MEADE, INC. (STATE OF IOWA) 370 - TIMOTHY GROTHUS 375 - JOHN GROTHUS, MICHAEL VASQUEZ (C.P.) (STATE OF IOWA) 376 - JAMES A. WIESE (STATE OF IOWA)

371 - RONALD L. GOTTSCHALK 377 - CYNTHIA L. FREIDHOF TRUST, RONALD L. FREIDHOF TRUST (STATE OF IOWA) 378 - ROBERT H. BERGESON

387 - LYLE L. ROSS 388 - OTIS A. ROSE III 389 - JOEL J. MULLOY 390 - MARK C. JACOBS, KELLY SIMONS

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/CUVA/GROAT
ROW #: IM-074-1(144)5--13-82
Plan Date: 05-14-13
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**



PARCEL OWNERSHIP

300 - JCO PROPERTIES, INC.
302 - M & M MANAGEMENT, L.L.C.
303 - EMBASSY CORPORATION
304 - PETERSON & KNOTT, INC.
305 - VALERIE SEARCH
310 - LEPRECHUANS OF GALWAY INC. (STATE OF IOWA)
313 - ADEL WHOLESALERS INC.
314 - DBS PROPERTIES, L.C.
315 - KEITH A. HALL
316 - SUE T. SEXTON (OWNER) ULUA ENTERPRISES, L.L.C. (C.P.)
317 - DR. TLC HEALTHCARE, L.L.C.
318 - RAY A. BRANDT (STATE OF IOWA)
319 - NICK DUBIL
321 - SDLR, L.L.C.
322 - MARGARET PETERS
323 - JAY AMBE CORPORATION
341 - BETHANY ENTERPRISES (STATE OF IOWA)
348 - BRIAN L. PALMER
349 - JOHN GROTHUS (OWNER) LANCE. M. HORLAS (C.P.)
350 - JOHN GROTHUS (OWNER) ANDY AMATO (C.P.1) TAMMY RINGSTAFF (C.P.2)
351 - LORI A. BOLES
352 - JASON L. MCCOY
381 - ERWIN PINNOW TRUST (STATE OF IOWA)

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GATTINGS/CUVA/GROAT
ROW #: IM-074-1(144)5--13-82
Plan Date: 05-14-13
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

ENGLISH	IOWA DOT	DESIGN TEAM WHKS/BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-074-1(226)4--13-82	SHEET NUMBER HE.1

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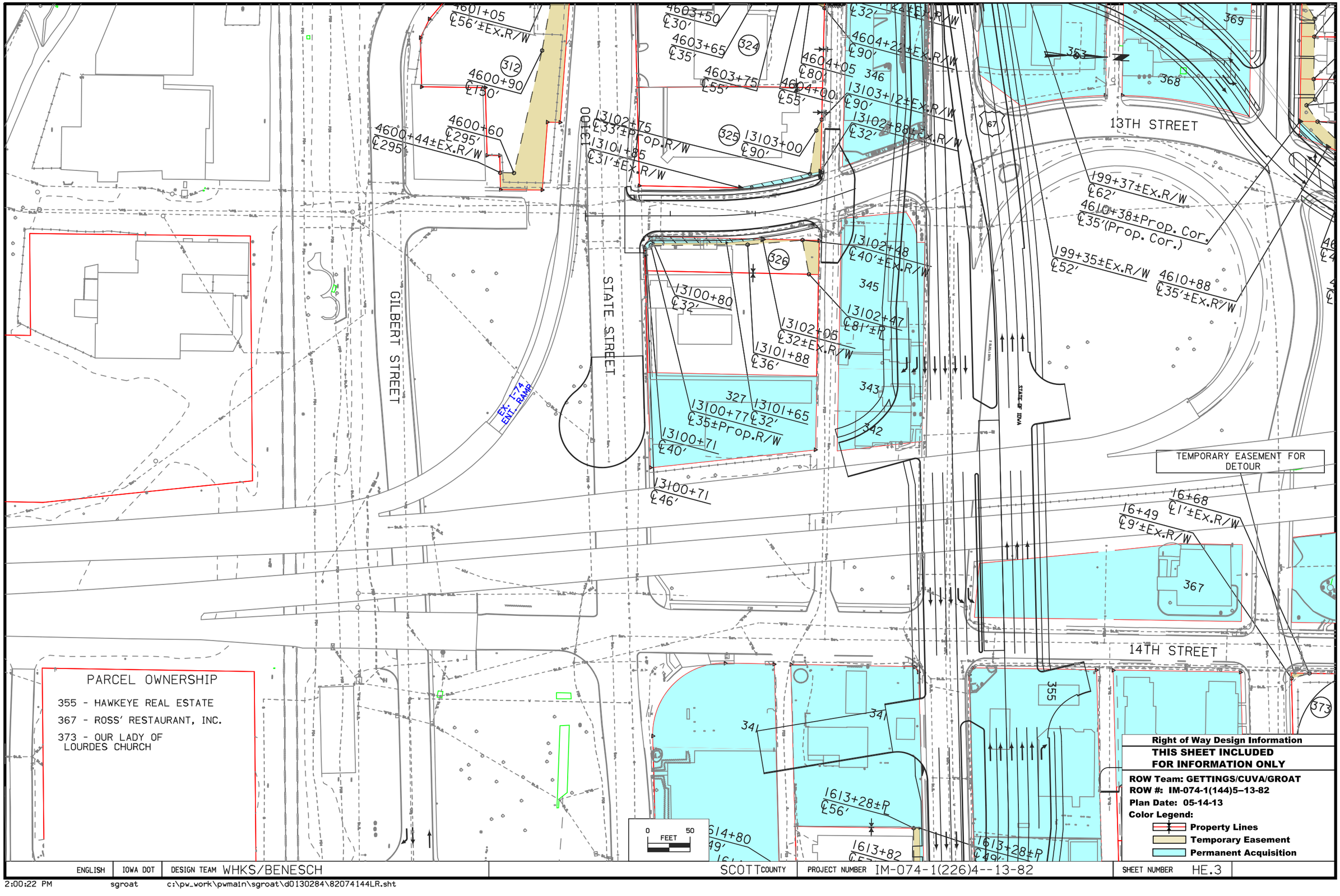

PARCEL OWNERSHIP

355 - HAWKEYE REAL ESTATE

367 - ROSS' RESTAURANT, INC.

373 - OUR LADY OF LOURDES CHURCH

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/CUVA/GROAT

ROW #: IM-074-1(144)5--13-82

Plan Date: 05-14-13

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

ENGLISH	IOWA DOT	DESIGN TEAM WHKS/BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-074-1(226)4--13-82	SHEET NUMBER HE.3

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PARCEL OWNERSHIP

306 - MARK D. SPRANGLER
307 - JAROSLAVA ODVARKO
308 - OTIS ROSE III
309 - LANUM PROPERTIES, L.L.C.
311 - CITY OF BETTENDORF
320 - KNOX CORPORATION
(STATE OF IOWA)
328 - JEFFERY L. WEINDRUCH (OWNER)
RICHARD I. VESOLE (C.P.)
329 - VERNON MATTSEN
FABRIZIO FEDRIZZA
330 - DONNA J. WAINWRIGHT REVOCABLE TRUST
331 - MIDWEST DEV. & INV. CORP.
332 - KO PROPERTY MANAGEMENT
333 - JEFFERY L. & HELEN M. WEINDRUCH
(STATE OF IOWA)
334 - ANJ LTD.
335 - JAMIE L. GRENER REVOCABLE TRUST
(STATE OF IOWA)
336 - DANIEL E. GROTHUS
337 - CHARLES J. DIXON
338 - LEONA M. FERGUSON
339 - NORTHWESTERN BELL TELLEPHONE COMPANY
340 - RONALD L. & NOLA L. GOTTSCHALK
(STATE OF IOWA)
357 - JAMES E. REISTROFFER
QUINT CITIES PETROLIUM (C.P.)
(STATE OF IOWA)
358 - MOLO QUINT, L.L.C.
(STATE OF IOWA)
359 - APOSTOLIC ASSEMBLY CHURCH
(STATE OF IOWA)
360 - MICHAEL A. LEIGHT
(STATE OF IOWA)
361 - RICHARD L. HELSLANDER, JR.
(STATE OF IOWA)
362 - ERIC V. TOTHEROW
(STATE OF IOWA)
363 - RICHARD LIVING TRUST
(STATE OF IOWA)
364 - RICHARD LIVING TRUST
(STATE OF IOWA)
365 - DOROTHY J. FOLWELL

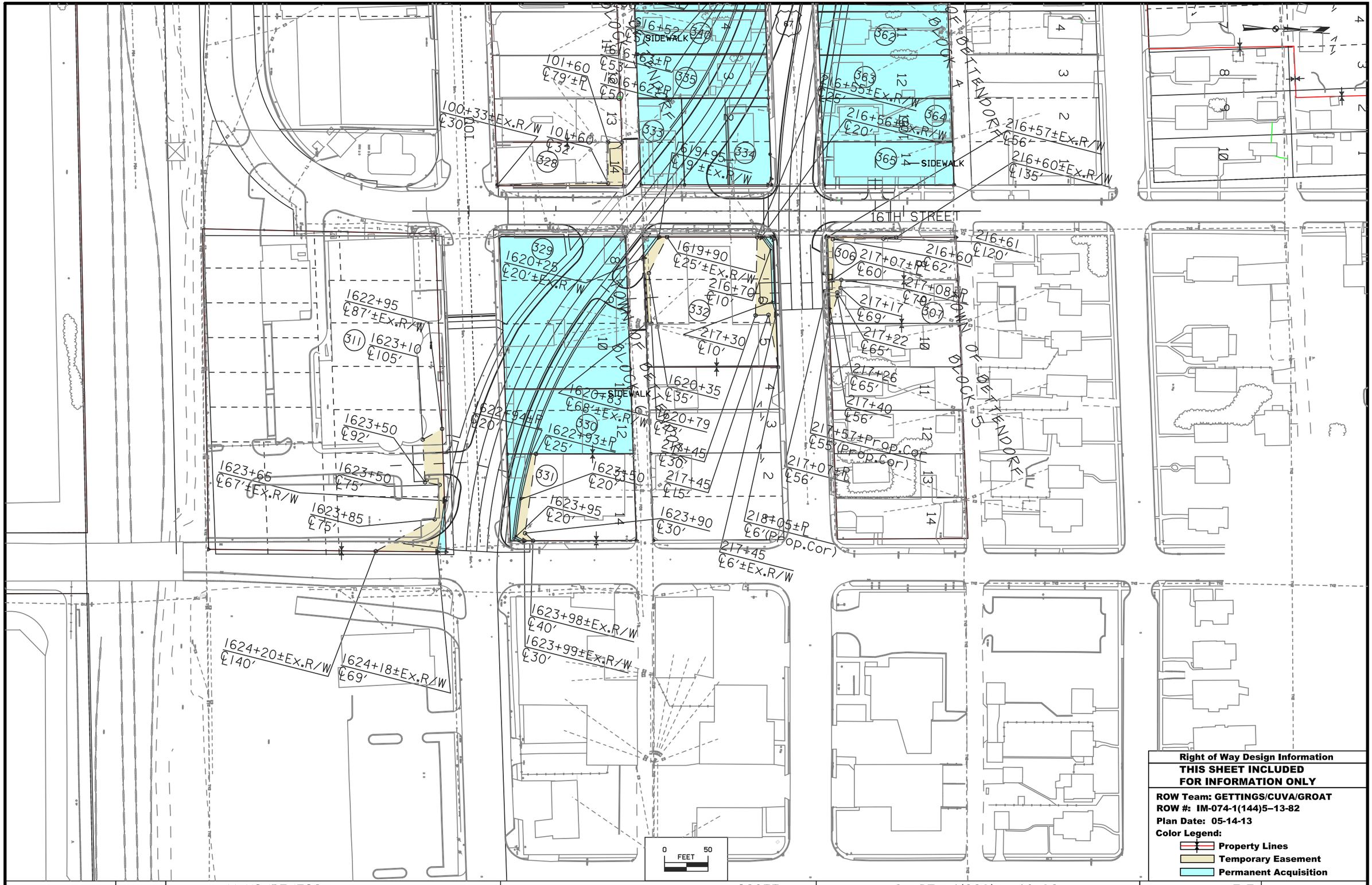
TEMPORARY EASEMENT TO SHAPE
TEMPORARY EASEMENT TO SHAPE & CONST. ENT.
TEMPORARY EASEMENT TO SHAPE
TEMPORARY EASEMENT TO SHAPE & CONST. ENT.
TEMPORARY EASEMENT TO SHAPE
TEMPORARY EASEMENT TO SHAPE & CONST. ENT.
TEMPORARY EASEMENT TO SHAPE
TEMPORARY EASEMENT TO SHAPE
TEMPORARY EASEMENT TO SHAPE
TEMPORARY EASEMENT TO SHAPE & CONST. ENT.
TEMPORARY EASEMENT TO SHAPE

1613+28±R ℄56′
1614+80 ℄49′
1613+82 ℄57′
1614+79 ℄57′
1613+82 ℄55′
1614+79 ℄101′
1614+86±Ex.R/W ℄101′
1615+51±Ex.R/W ℄100′
1613+28±R ℄49′
108+25±Ex.R/W ℄45′
108+50 ℄29′±Ex.R/W
1614+88±Ex.R/W ℄57′
1615+51±Ex.R/W ℄60′
15TH STREET
108+45 ℄31±Ex.R/W
108+32 ℄37′
108+20±Ex.R/W ℄56′
1615+55 ℄100′
1615+55 ℄62′
1615+60 ℄50′
1616+07±R ℄57′
1616+06±R ℄50′
1616+52 ℄51′
1616+63±R ℄53′
1616+62±R ℄50′
101+60 ℄79′±R
100+33±Ex.R/W ℄30′
101+60 ℄32′
1619+95 ℄19′±Ex.R/W
216+55±Ex.R/W ℄25′
216+56±Ex.R/W ℄20′
216+57±Ex.R/W ℄56′
216+60±Ex.R/W ℄135′
BROWN STREET
SIDEWALK
16TH STREET
216+61 ℄120′
216+60 ℄62′
1619+90 ℄25′±Ex.R/W
216+79 ℄10′
217+07±R ℄60′
217+08±R ℄70′
217+17 ℄69′
217+22 ℄65′
217+30 ℄10′
217+26 ℄65′
217+40 ℄56′
1620+35 ℄35′
1620+79 ℄73′
217+45 ℄30′
217+45 ℄15′
217+57±Prop.Cor ℄55′(Prop.Cor)
217+07±R ℄56′
1620+25 ℄20′±Ex.R/W
1620+83 ℄68′±Ex.R/W
1622+94±R ℄20
1622+93±R ℄25′
1623+50 ℄20′
1622+95 ℄87′±Ex.R/W
1623+10 ℄105′
1623+50 ℄92′
1623+65 ℄67′±Ex.R/W
1623+50 ℄75′
1623+85
1623+95 ℄20′
STATE STREET
GRANT STREET
0 50 FEET

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY
ROW Team: GETTINGS/CUVA/GROAT
ROW #: IM-074-1(144)5--13-82
Plan Date: 05-14-13
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

ENGLISH	IOWA DOT	DESIGN TEAM WHKS/BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-074-1(226)4--13-82	SHEET NUMBER HE.4

2:00:26 PM sgroat c:\pw_work\pwmain\sgroat\d0130284\82074144LR.sht



Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: GETTINGS/CUVA/GROAT
ROW #: IM-074-1(144)5--13-82
Plan Date: 05-14-13
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

ENGLISH	IOWA DOT	DESIGN TEAM WHKS/BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-074-1(226)4--13-82	SHEET NUMBER HE.5

2:00:30 PM sgroat c:\pw_work\pwmain\sgroat\d0130284\82074144LR.sht

PARCEL CHECK LIST

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : SCOTT PROJECT NO. :IM-074-1(144)5--13-82 PIN: 03-82-074010-00

CONSTRUCTION NO.:IM-074-1(122)0--13-82 ASSIGNED TO: FLD

DESCRIPTION : I-74 From S. Of 23rd Ave. In Moline To N. Of 53rd St. In Davenport

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
0300	26040	JCO PROPERTIES, INC.	FEE STATE OF IOWA						
				216.00 WD SQFT					
0301	26041	GREEN BRIDGE REAL ESTATE	FEE						
0302	26067	M & M MANAGEMENT, L.L.C.	FEE STATE OF IOWA						
				87.00 WD SQFT					
0303	26068	EMBASSY CORPORATION	FEE						
0304	26069	PETERSON & KNOTT INC.	FEE STATE OF IOWA						
				204.00 WD SQFT					
0305	26070	VALERIE SEARCH	FEE STATE OF IOWA						
				268.00 WD SQFT					
0306	26071	MARK D. SPRANGLER	FEE STATE OF IOWA						
				75.00 WD SQFT					
0307	26072	JAROSLAVA ODVARKO	FEE STATE OF IOWA						
				58.00 WD SQFT					
0308	26073	OTIS A. ROSE III	FEE						
0309	26074	LANUM PROPERTIES, L.L.C.	FEE						
0310	25371	LEPRECHAUNS OF GALWAY COUNTY, INC.	FEE STATE OF IOWA						
		BECKMAN HAMILTON & SMITH INSURANCE	T	0.40 WD ACRE					
		EDWARD JONES	T						
		ORGANIC THERAPIES	T						
		LONNY L. WILKEN	T						
0311	26076	CITY OF BETTENDORF	FEE STATE OF IOWA						
				299.00 WD SQFT					
0312	26099	KIETH A. HALL	FEE						
0313	26077	ADEL WHOLESALERS INC.	FEE						
0313 A	26078	PARCEL R. DELETED							
		BOTTLED GAS CORPORATION	FEE						
0314	26079	DBS PROPERTIES, L.C.	FEE STATE OF IOWA						
				321.00 WD SQFT					
0315	26080	KEITH A. HALL	FEE STATE OF IOWA						
				650.00 WD SQFT					
0316	26081	SUE T. SEXTON	FEE STATE OF IOWA						
		ULUA ENTERPRISES, L.L.C.	CP1	501.00 WD SQFT					

PARCEL CHECK LIST

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : SCOTT PROJECT NO. :IM-074-1(144)5--13-82 PIN: 03-82-074010-00

CONSTRUCTION NO.:IM-074-1(122)0--13-82 ASSIGNED TO: FLD

DESCRIPTION : I-74 From S. Of 23rd Ave. In Moline To N. Of 53rd St. In Davenport

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
0317	26100	DR TLC HEALTHCARE, LLC	FEE STATE OF IOWA						
				728.00 WD SQFT					
0318	26042	RAY A. BRANDT	FEE STATE OF IOWA						
		CHRISTINA A. BRANDT	FEE	0.28 WD ACRE					
		BRANDT PARTNERS, INC.	T						
0319	25630	NICK DUBIL	FEE STATE OF IOWA						
				0.22 WD ACRE					
0320	25262	KNOX CORPORATION	FEE STATE OF IOWA						
		PATRICK A. GARRELS	T	0.83 WD ACRE					
0321	26043	SDLR, L.L.C.	FEE STATE OF IOWA						
0321	26043			450.00 WD SQFT					
0322	26044	MARGARET M. PETERS	FEE STATE OF IOWA						
		FASHION TWENTY COSMETICS	T	0.21 WD ACRE					
		GLANCY'S BARBERSHOP	T						
		AUTUMN HICKMAN	T						
0323	26045	JAY AMBE CORP.	FEE STATE OF IOWA						
				234.00 WD SQFT					
0324	26046	MILES NEBRASKA, L.L.C.	FEE BETTENDORF CITY						
				367.00 WD SQFT					
0325	26047	MARILYN SEIBEL TRUST	FEE BETTENDORF CITY						
				331.00 WD SQFT					
0326	26048	KATHY WHITTY REVOCABLE TRUST	FEE BETTENDORF CITY						
				704.00 WD SQFT					
0327	25631	THOMAS L. QUIGLEY, JR	FEE STATE OF IOWA						
				19,394.00 WD SQFT					
0328	26049	JEFFERY L. WEINDRUCH	FEE						
		RICHARD I. VESOLE	CP1						
0329	25632	FABRIZIO FEDRIZZA	FEE STATE OF IOWA						
		CONNIE L. FEDRIZZA	FEE	0.58 WD ACRE					
		VERNON MATTSON	FEE						
		HAYWARD MCGEE	T						
0330	25633	DONNA J. WAINWRIGHT REVOC TRUST	FEE STATE OF IOWA						
				0.24 WD ACRE					
0331	26050	MIDWEST DEV & INV CORP.	FEE STATE OF IOWA						
				1,586.00 WD SQFT					

PARCEL CHECK LIST

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : SCOTT PROJECT NO. :IM-074-1(144)5--13-82 PIN: 03-82-074010-00

CONSTRUCTION NO.:IM-074-1(122)0--13-82 ASSIGNED TO: FLD

DESCRIPTION : I-74 From S. Of 23rd Ave. In Moline To N. Of 53rd St. In Davenport

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
0332	26051	KO PROPERTY MANAGEMENT	FEE STATE OF IOWA						
				579.00 WD SQFT					
0333	25634	HELEN M. WEINDRUCH	FEE STATE OF IOWA						
0333	25634	JEFFERY L. WEINDRUCH	FEE	0.11 WD ACRE					
		HELEN NEWMAN WEINDRUCH	FEE						
		JOEL E. PREISSER	T						
		KEVIN VANTHEEMSCHE	T						
0334	25635	ANJ LTD.	FEE STATE OF IOWA						
				0.22 WD ACRE					
0335	25636	JAMIE L. GRENER REVOC TRUST	FEE STATE OF IOWA						
				0.17 WD ACRE					
0336	25637	DANIEL E. GROTHUS	FEE STATE OF IOWA						
				0.17 WD ACRE					
0337	25638	CHARLES J. DIXON	FEE STATE OF IOWA						
				806.00 WD SQFT					
0338	26052	LEONA M. FERGUSON	FEE STATE OF IOWA						
				425.00 WD SQFT					
0339	26101	NORTHWESTERN BELL TELEPHONE CO.	FEE STATE OF IOWA						
				612.00 WD SQFT					
0340	26075	NOLA L. GOTTSCHALK	FEE STATE OF IOWA						
		RONALD L. GOTTSCHALK	FEE	0.17 WD ACRE					
0341	25639	BETHANY ENTERPRISES, INC.	FEE STATE OF IOWA						
				0.28 EASE ACRE					
0341 A	25684	BETHANY ENTERPRISES, INC.	FEE STATE OF IOWA						
		ABSOLUTE CASH, INC.	T	0.65 EASE ACRE					
		HORIZON MOVERS AND STORAGE	T						
0342	25640	W. DAVID RIPLEY	FEE STATE OF IOWA						
		REBA S. RIPLEY	FEE	0.09 WD ACRE					
0343	25641	THOMAS D. VOSS	FEE STATE OF IOWA						
		TINA L. VOSS	FEE	0.11 WD ACRE					
0344	25642	PARCEL R. DELETED							
0344	25642	ARLENE K. SOULTS REVOC TRUST	FEE						
0345	25643	SOULTS REAL ESTATE LLC	FEE STATE OF IOWA						
		CRESCENT-ECONOMY INC	T	0.39 EASE ACRE					
0346	25644	B.O.R.G. ENTERPRISES	FEE STATE OF IOWA						
				0.51 WD ACRE					

PARCEL CHECK LIST

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : SCOTT PROJECT NO. :IM-074-1(144)5--13-82 PIN: 03-82-074010-00

CONSTRUCTION NO.:IM-074-1(122)0--13-82 ASSIGNED TO: FLD

DESCRIPTION : I-74 From S. Of 23rd Ave. In Moline To N. Of 53rd St. In Davenport

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
0347	25713	JUANITA J. CARRILLO ESTATE	FEE STATE OF IOWA	0.01 WD ACRE					
0348	26053	BRIAN L. PALMER	FEE STATE OF IOWA	95.00 WD SQFT					
0349	26054	JOHN GROTHUS	FEE STATE OF IOWA						
		LANCE M. HORLAS	CP1	166.00 WD SQFT					
0350	26055	JOHN F. GROTHUS	FEE STATE OF IOWA						
		ANDY AMATO	CP1	149.00 WD SQFT					
		TAMMY RINGSTAFF	CP2						
0351	26056	LORI A. BOLES	FEE STATE OF IOWA	154.00 WD SQFT					
0352	26057	JASON L. MCCOY	FEE STATE OF IOWA	348.00 WD SQFT					
0353	25645	GREGORY POLEY	FEE STATE OF IOWA						
		JANET POLEY	FEE	0.17 WD ACRE					
0354	25646	PARCEL R. DELETED							
		CYNTHIA L. FREIDHOF	FEE						
		RONALD L. FREIDHOF	FEE						
0355	25647	HAWKEYE REAL ESTATE	FEE STATE OF IOWA	0.69 EASE ACRE					
0356	25648	PARCEL R. DELETED							
		ANN I. SCHROEDER	FEE						
0357	25649	JAMES E. REISTROFFER	FEE STATE OF IOWA						
		IRENE REISTROFFER	FEE	0.34 EASE ACRE					
		QUINT CITIES PETROLEUM	CP1						
		JEFFREY A. PICK	T						
0358	25650	MOLO QUINT, LLC	FEE STATE OF IOWA	0.17 WD ACRE					
0359	25651	APOSTOLIC ASSEMBLY CHURCH	FEE STATE OF IOWA	7,500.00 WD SQFT					
0360	25652	MICHAEL A. LEIGHT	FEE STATE OF IOWA						
		SUSAN B. LEIGHT	FEE	0.17 WD ACRE					
0361	25653	RICHARD L. HELSLANDER, JR	FEE STATE OF IOWA						
		BRET J. GENTRY	FEE	7,500.00 WD SQFT					
		JEREMY HELSLANDER	T						
0362	25654	ERIC V. TOTHEROW	FEE STATE OF IOWA						
		TERRY L. TOTHEROW	FEE	7,500.00 WD SQFT					

PARCEL CHECK LIST

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : SCOTT PROJECT NO. :IM-074-1(144)5--13-82 PIN: 03-82-074010-00

CONSTRUCTION NO.:IM-074-1(122)0--13-82 ASSIGNED TO: FLD

DESCRIPTION : I-74 From S. Of 23rd Ave. In Moline To N. Of 53rd St. In Davenport

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
0363	25625	RICHARD LIVING TRUST	FEE STATE OF IOWA						
		VIRVA J. RICHARD	FEE	7,500.00 WD SQFT					
0364	25655	RICHARD LIVING TRUST	FEE STATE OF IOWA						
		VIRVA J. RICHARD	FEE	7,500.00 WD SQFT					
0365	26058	DOROTHY J. FOLWELL	FEE STATE OF IOWA						
		CHOCOLATE MANOR	T	0.17 WD ACRE					
		DAVID FOLWELL	T						
		L & W BEDDING	T						
0366	25714	RPH PROPERTIES, L.C.	FEE STATE OF IOWA						
		RETAIL DVD, LLC	T	0.47 WD ACRE					
0367	25656	ROSS' RESTAURANT, INC.	FEE STATE OF IOWA						
				0.55 WD ACRE					
0368	25657	WEINDRUCH-MEADE, INC.	FEE STATE OF IOWA						
0368	25657			0.26 WD ACRE					
0369	25658	WEINDRUCH MEADE, INC.	FEE STATE OF IOWA						
				0.15 WD ACRE					
0370	25659	TIMOTHY A. GROTHUS	FEE STATE OF IOWA						
		GARY BOYD	T	0.17 WD ACRE					
		JOSH COLE	T						
		JAROD OLOFSON	T						
0371	26059	RONALD L. GOTTSCHALK	FEE STATE OF IOWA						
				282.00 WD SQFT					
0372	25660	CYNTHIA L. FREIDHOF	FEE STATE OF IOWA						
		RONALD L. FREIDHOF	FEE	0.58 WD ACRE					
0373	26060	OUR LADY OF LOURDES CHURCH	FEE						
0374	25661	EEE PROPERTIES, LTD	FEE STATE OF IOWA						
		ADVANTAGE TREE SERVICES	LSE	0.43 EASE ACRE					
0375	25662	JOHN F. GROTHUS	FEE STATE OF IOWA						
		NORMA J. GROTHUS	FEE	0.19 WD ACRE					
		MICHAEL VASQUEZ	CP1						
0376	25376	JAMES A. WIESE	FEE STATE OF IOWA						
				7,000.00 WD SQFT					
0377	25663	CYNTHIA L. FREIDHOF TRUST	FEE STATE OF IOWA						
		RONALD L. FREIDHOF TRUST	FEE	0.16 WD ACRE					
		JAMIE ARIVETT	T						

PARCEL CHECK LIST

R2360003 PARCEL CHECK LIST BY PROJECT NUMBER

COUNTY : SCOTT PROJECT NO. :IM-074-1(144)5--13-82 PIN: 03-82-074010-00

CONSTRUCTION NO.:IM-074-1(122)0--13-82 ASSIGNED TO: FLD

DESCRIPTION : I-74 From S. Of 23rd Ave. In Moline To N. Of 53rd St. In Davenport

PARCEL	KEY	OWNER	TYPE	R/W W.D OR EASE.	BORROW W.D OR EASE.	HOUSE OR OTHER	COMMERCIAL	OCC	ENVIRONMENTAL CONCERNS
0378	26102	ROBERT H. BERGESON	FEE						
0379	26098	UNKNOWN	FEE						
0380	26103	GOETTSCH BROS REALTY	FEE STATE OF IOWA						
		GREEN ENDEAVORS GROUP LLC	T	0.55 EASE ACRE					
		DBA THE FENCE GUYS	T						
0380	26103	MIDWEST LAWNS, LLC	T						
0381	26061	ERWIN PINNOW TRUST	FEE STATE OF IOWA						
		JANET PINNOW TRUST	FEE	0.21 WD ACRE					
0382	26062	WG BLOCK CO.	FEE						
0383	26063	ABEL - KEPPY PC	FEE						
0384	26064	DONNA BYARS FREEMAN TRUST	FEE						
0385	26065	ROBERT G. HENZEN	FEE						
0386	26066	LOUIS M. KEPPY TRUST	FEE						
0387	26083	LYLE L. ROSS	FEE						
		KELLY SIMONS	FEE						
0388	26084	OTIS A. ROSE III	FEE						
0389	26085	JOEL J. MULLOY	FEE						
0390	26086	MARK C. JACOBS	FEE						
0391	26087	RAMONA K. PEIFFER	FEE						
0392	26088	KATHLEEN A. WISEMAN	FEE						
0393	26089	KELLEY L. SMITH	FEE						
		THOMAS L. SMITH	FEE						
0394	26090	JAMES E. LEVSEN	FEE						
		SANDRA J. LEVSEN	FEE						
0395	26091	BETTENDORF PARK BOARD	FEE						
0396	26092	UNKNOWN	FEE						
0397	26390	UNKNOWN	FEE						

102-15
10-29-02

TABULATION OF SPECIAL EVENTS

Event	Location	Date

108-26A

STAGING NOTES

Maintain traffic on existing I-74.

Remove existing guardrail at Sta. 6812+37 and install Temporary Barrier Rail from Sta. 6812+37 to Sta. 6816+08.
Construct shoulder strengthening on the outside shoulder of WB I-74 from Sta. 6811+75 To Sta. 6820+75 and on the outside shoulder of EB I-74 from Sta. 6812+60 to Sta. 6824+75. Refer to Standard Road Plan TC-402 for shoulder closure details.
For shoulder construction at edge of pavement, refer to Standard Road Plan TC-418.
Maintain traffic on existing Mississippi Blvd. Closure allowed between the hours of 7 pm and 6 am for installation of temporary culverts. Temp 3 and Temp 7. See M Sheets for location. Refer to Standard Road Plan TC-213 for road closure details.
Maintain traffic on existing Calvert St. Closure allowed between the hours of 7 pm and 6 am for installation of temporary culverts. and Temp 5. See M sheets for location. Refer to Standard Road Plan TC-419 for road closure details.
Construct temporary median fill for future temporary median pavement from Sta. 6796+50 to Sta. 6803+50 and from Sta. 6803+75 to 6804+00.
Construct median fill for temporary pavement from Sta. 6804+00 to Sta. 6808+00 and for future I-74 median pavement from Sta. 6808+00 to Sta.6812+00.

Lane closure will be permitted from 7 PM to 6 AM beginning at 7:00 PM Monday and ending at 6:00 AM Friday. Lane closures will also be permitted from 9:00 PM Sunday to 6:00 AM Monday.
The contractor shall notify the Engineer at least 72 hours before any closure starts.

108-23A
08-01-08

TRAFFIC CONTROL PLAN

I-74 Mainline
Traffic shall be maintained on the existing traffic lanes. Shoulder closures shall be in accordance with Standard Road Plan TC-402.
Access to existing US-67 entrance and exit ramps shall be maintained at all times.
Access to existing Middle Road entrance and exit ramps shall be maintained at all times.

111-01
04-17-12

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
BRFIM-074-1(197)5--05-82	Approaches to Arch Bridge
BRFIM-074-1(198)5--05-82	Arch Bridge over River

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

LINE WORK	Design Color No.		
Green	(2)		Existing Topographic Features and Labels
Magenta	(5)		Pavement Marking Call Outs
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Yellow	(4)		Pavement Markings, Yellow
Off White	(254)		Pavement Markings, White

SHADING	Design Color No.		
Green, Light	(225)		Existing Pavement Shading
Green	(2)		Existing Viaduct Shading
Blue, Light	(230)		Proposed Pavement Shading
Red	(3)		Proposed Bridge Shading (By Others)
Gray, Light	(48)		Previously Constructed Pavement or Structure Shading
Brown, Dark	(237)		Previously Constructed Pavement by Others
Lavender	(9)		Temporary Pavement Shading

PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

	Channelizing Device		Crash Cushion
	Drum		Traffic Signal
	Temporary Lane Seperator		Flagger
	Tubular Marker		Temporary Floodlighting
	Channelizer Marker		Traffic Sign
	Concrete Barrier Marker		Type III Barricade
	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure
	Bridge Removal by Others		

NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.		
Green, Light	(225)		Existing Pavement and Bridge Shading
Brown, Light	(236)		Proposed Grading Shading
Blue, Light	(230)		Proposed Pavement Shading
Red	(3)		Proposed Bridge Shading
Gray, Light	(48)		Previously Constructed Pavement or Structure Shading
Brown, Dark	(237)		Previously Constructed Pavement by Others
Lavender	(9)		Temporary Pavement Shading

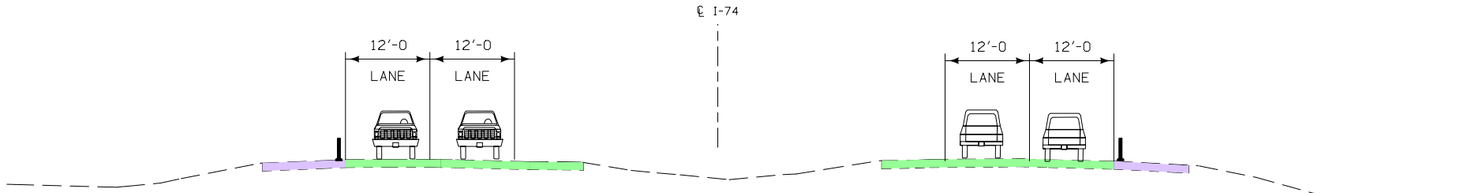
CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

	Pavement Removal		Temporary Barrier Rail
			42 Inch Channelizer

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

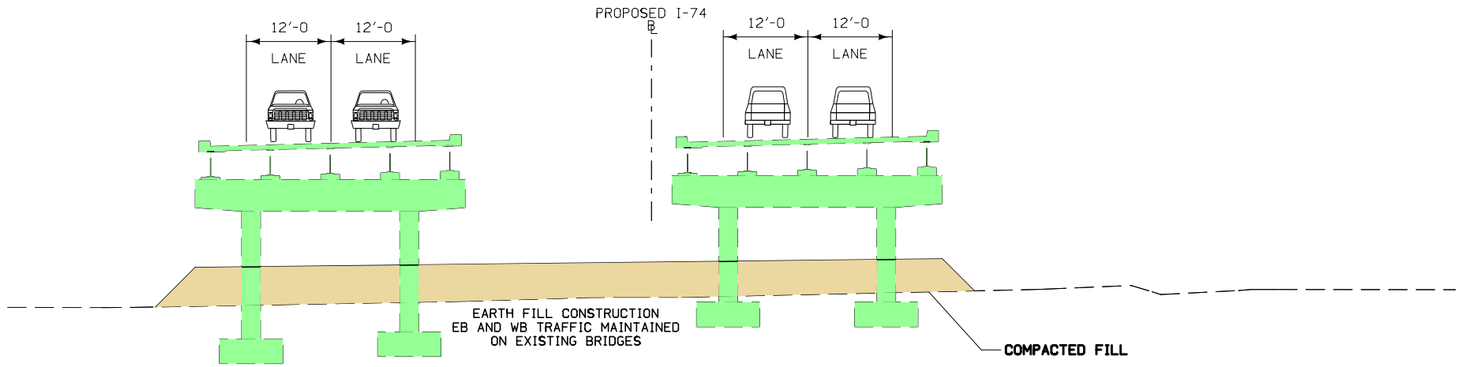
(COVERS SHEET SERIES J)

I–74 STAGING TYPICAL SECTIONS

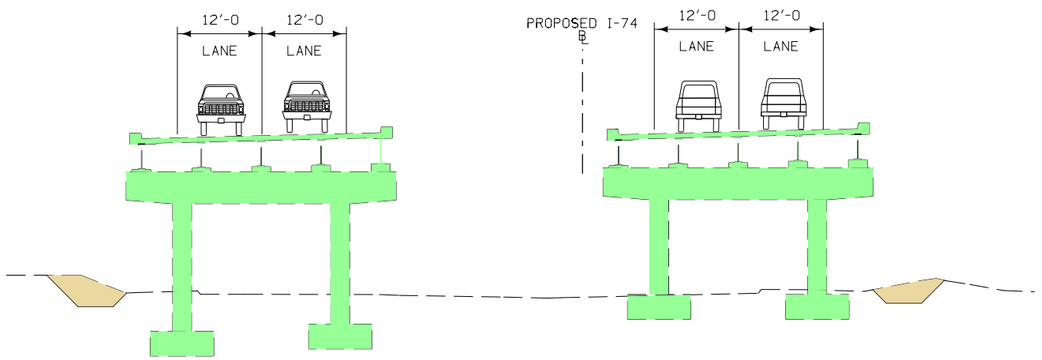


STA 6812+00 TO STA 6837+00

SHOULDER STRENGTHENING
MAINTAIN EXISTING TRAFFIC LANES
OUTSIDE LANE CLOSURE ALLOWED BETWEEN 7PM AND 6AM



STA 6804+00 TO STA. 6812+00



STA 6798+75 TO STA. 6804+00

DITCH CONSTRUCTION
EB AND WB TRAFFIC MAINTAINED
ON EXISTING BRIDGES

TYPICAL SECTIONS
I-74 STAGING

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **J.3**	

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WELCOME TO ILLINOIS
Moline
NEXT 5 EXITS

EXIT 3
Middle Rd
Locust St
1MILE
HOSPITAL

EXIT 4
67
Grant St
State St
Riverfront

Existing Sign 247 & 294

I-74

I-74

PROPOSED MISSISSIPPI RIVER
BRIDGES WORK ZONE
(BY OTHERS)

6775

6780

6785

6790

I-74

I-74

LADY LUCK PKWY

GILBERT ST

15TH ST

I-74 STAGING PLAN

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER J.4	REVISED

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I-74 STAGING PLAN

Curve 21015 (I-74)
PI Sta 6801+41.31
R = 03°50'58.23" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

Curve 21017 (I-74 EB)
PI Sta 26805+14.75
R = 03°50'58.22" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

Curve 21016 (I-74 WB)
PI Sta 16797+67.87
R = 03°50'58.24" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

SOUTH 67 Grant St — EAST 6 Illinois — LEFT TURN ONLY
WEST 6 Kimberly Rd
Existing Sign 297
Existing Sign 299
Existing Sign 300
Kimberly Rd — WEST 6

PROPOSED GRADING WORK AREA
ROAD CLOSED

PC STA. 26800+44.27 (I-74 EB)
=POC STA. 6800+42.84, 35.07 LT (I-74)
PI STA. 16797+67.87 (I-74 WB)
=STA. 6797+70.00, 40.35 RT (I-74)
PI Sta 6801+41.31
PI STA. 26805+14.75 (I-74 EB)
=STA. 6805+13.74, 14.66 LT (I-74)
PC Sta 6796+70.83
VARI
PC STA. 16792+97.39 (I-74 WB)
=POC STA. 6792+99.80, 40.00 RT (I-74)
PT STA. 16802+38.00 (I-74 WB)
=POC STA. 6802+39.05, 19.96 RT (I-74)
POT STA. 6802+94.47 (I-74)
=POT STA. 14+35.64 (MISSISSIPPI BLVD)

6795 6800 6805

STATE ST
15TH ST
BROWN ST
MISSISSIPPI BLVD
14TH ST

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER J.5

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PROPOSED GRADING WORK AREA

6810

PT Sta 6806+11.44

I-74

I-74

STA. 6814+29, 58.00' LT
END TBR TAPER

6815

STA. 6816+05, 58.30' LT
END TBR
INSTALL CRASH CUSHION

PROPOSED SHOULDER
STRENGTHENING
REFER TO D-SHEETS
FOR ADDITIONAL
INFORMATION

6820

STA. 6812+42.77, 55.10' LT
CONNECT TO EXISTING
BRIDGE ENDPOST

Existing Sign 73

Existing Sign

Existing Sign 301

Existing Sign 252

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER J.6	

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STORM SEWER

* Bid Item
** For SW-545

For bedding and backfill purposes under Primary roads, use material complying with Article 4120.04 (Class A Crushed Stone) of the Standard Specifications for all bedding and backfill. Place and compact the material according to Article 2435.03, A and Article 2552.03, E (Class I materials).

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
908	6800+81.20,111.14'L	SW-401,48"	579.00	566.76		Div.(1)
980EX	6800+96.02,233.10'L	SW-404,MOD	581.00	562.64		Div.(1)
TMP9	6800+76.33,147.1'R	RF-3,18"	571.60			Div.(1), Includes RF-26
TMP10	6800+80.57,105.93'L	RF-3,18"	573.30			Div.(1), Includes RF-26
926	6786+96.07,0.73'R	RF-3,30"	560.00	560.00		Div.(1), Includes RF-26
917	6786+39.54,0.21'L	SW-401,48"	565.00	559.07		Div.(1)
918	6785+16.24,0.23'L	SW-401,48"	565.00	558.35		Div.(1)
921	6784+39.55,141.58'L	RF-3,24"	559.06	555.06		Div.(1), Includes RF-26
919	6784+14.94,0.23'L	SW-401,48"	565.00	557.74		Div.(1)
922	6783+75.91,0.24'L	SW-401,48"	565.00	557.43		Div.(1)
923	6782+35.58,0.25'L	SW-401,48"	565.00	556.58		Div.(1)
924	6780+95.25,0.25'L	SW-401,48"	565.00	555.73		Div.(1)
925EX	6781+13.63,99.10	EX				Div.(1)
						Div.(1) IOWA DOT COST
						Div.(2) CITY OF BETTENDORF COST
						Div.(3) 72.23% IOWA/27.77% BETTENDORF
						Div.(4) NON-PARTICIPATING

PIPES

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 6 ft length is added to Design Length to account for estimated length to center of structures.

Line Number	Intake/ Utility Access No. From	To	Class 'D'	Pipe Diameter IN	Bid* Length FT	Design Length FT	Slope %	Flow Lines Inlet Elevation	Outlet Elevation	Other Elevation	Pipe Profile Sheet No.	Notes
P908	908	980	3000D	30	124	118	1.56	567.26	565.42		M.6	Div.(1)
TEMP9	TMP9	745EX	2000D	18	24	18	1.78	571.60	571.28		M.6	Connect to Exist Manhole Div.(1)
TEMP10	TMP10	908	2000D	18	9	3	1.00	573.30	573.20		M.6	Div.(1)
P926	926	917	2000D	30	61	55	0.51	560.00	559.72		M.4	Div.(1)
P917	917	918	2000D	30	126	120	0.51	559.57	558.96		M.4	Div.(1)
P918	918	919	2000D	30	104	98	0.51	558.85	558.35		M.4	Div.(1)
P921	921	919	2000D	24	148	142	0.50	559.06	558.35		M.4	Div.(1)
P919	919	922	2000D	36	42	36	0.58	558.24	558.03		M.4	Div.(1)
P922	922	923	2000D	36	143	137	0.54	557.93	557.19		M.4	Div.(1)
P923	923	924	2000D	36	143	137	0.54	557.08	556.34		M.4	Div.(1)
P924	924	925EX	2000D	36	103	97	0.55	556.23	555.70		M.4	Connect to Exist Manhole Div.(1)
												Div.(1) IOWA DOT COST
												Div.(2) CITY OF BETTENDORF COST
												Div.(3) 72.23% IOWA/27.77% BETTENDORF
												Div.(4) NON-PARTICIPATING

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Earth Dam or Dike (Proposed)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Proposed Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Proposed Intake
- Existing Utility Access (Manhole)
- Proposed Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)

- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Luminaire
- Traffic Signal
- Traffic Signal with Luminaire
- TP Telephone Pedestal
- TVP Television Pedestal
- Telephone Pole
- Telephone Pole (Second Company)
- Telephone Pole (Third Company)
- Telephone Pole (Fourth Company)
- Telephone Pole (Fifth Company)
- Power Pole
- Power Pole (Second Company)
- Power Pole (Third Company)
- Power Pole (Fourth Company)
- Power Pole (Fifth Company)
- Electrical Highline Tower (Metal or Concrete)
- Telephone Riser Pole
- Power Riser Pole
- Telegraph Pole
- Satellite TV Dish
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- EB Electric Box
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box

- FO Existing Fiber Optics (Central Scott)
- FO2 Existing Fiber Optics (Mcleod USA)
- FO3 Existing Fiber Optics (Qwest)
- FO4 Existing Fiber Optics (ATT)
- FO6 Existing Fiber Optics (MediaCom)
- FO8 Existing Fiber Optics (Bettendorf)
- FO9 Existing Fiber Optics (IowaDOT)
- E Existing Power Line (MidAmerican)
- E2 Existing Power Line (MidAmerican)
- E3 Existing Power Line (MidAmerican)
- E4 Existing Power Line (MidAmerican)
- E5 Existing Power Line (IowaDOT)
- G Existing Gas Line (MidAmerican)
- G-HP Existing High Pressure Gas Line (MidAmerican)
- San. Existing Sanitary Sewer Line (Bettendorf)
- San.2 Existing Sanitary Sewer Line (Davenport)
- T Existing Telephone Line (Qwest)
- TV Existing Cable Television Line (MediaCom)
- TV2 Existing Cable Television Line (MediaCom)
- W Existing Water Line (IA American)

PLAN VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINE WORK	Design Color No.	
Grey, Dark	(112)	Existing Topographic Features, Utilities and Labels
Black	(Ø)	Proposed Storm Sewer Details, Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	**Design Color No.**	
Gray Dark	(112)	Proposed Pavement Shading

PROFILE VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINE WORK	Design Color No.	
Grey, Dark	(2)	Existing Ground Line Profile and Existing Utilities Information
Black	(58)	Proposed Pipes and Intakes

PLAN VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- XXXXXXXX Removal of Existing Pipe or Structure
- Previously Constructed Pipe or Structure
- Direction of Pipe Flow

PROFILE VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Existing Ground
- Proposed Ground
- Previously Constructed Pipe or Structure
- Proposed Pipe or Structure

CONVENTIONAL SIGNS

- Survey Line (Station — Reference Point)
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- XXXXXXXX Linear Removal
- Abandon Pipe
- Clearing & Grubbing Area
- Pavement Removal
- Bridge Removal by Others

RIGHT OF WAY LEGEND

- Proposed Right of Way
- Existing and Proposed Right of Way
- Easement and Existing Right of Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

TABULATION OF UTILITIES

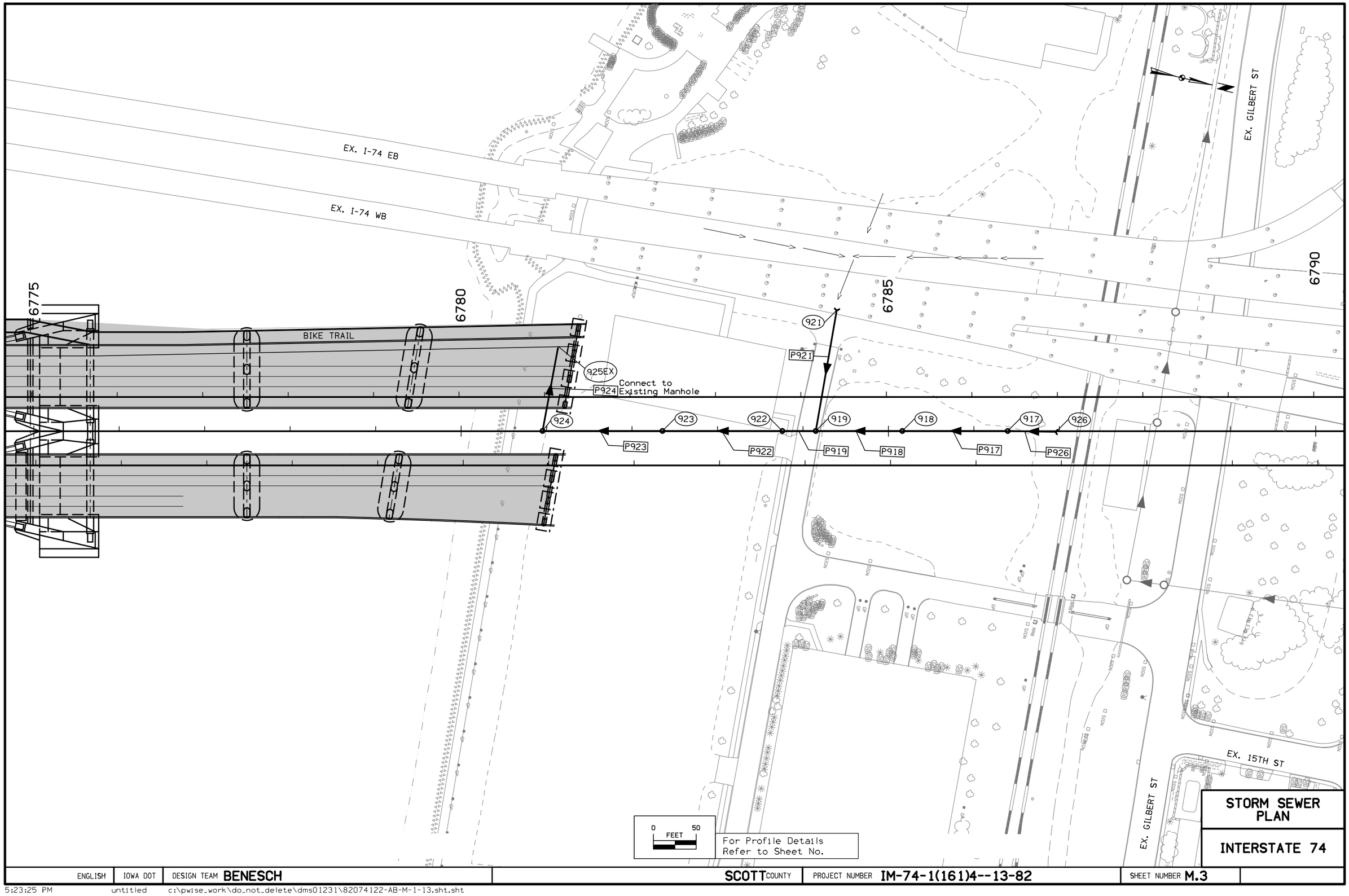
102-13A
10-29-02

CENTRAL SCOTT TELEPHONE: Fiber Optics
McLEOD USA: Fiber Optics
QWEST COMMUNICATIONS: Fiber Optics, Telephone Lines
AT&T: Fiber Optics
MEDIACOM: Fiber Optics, Television
BETTENDORF: Fiber Optics
IOWA DOT: Fiber Optics, Power Lines
MIDAMERICAN ENERGY - Power Lines, Gas
BETTENDORF: Sanitary Sewer Line
DAVENPORT: Sanitary Sewer Line
IA-AMERICAN: Water Line

Legend And Symbol Information Sheet

M SHEETS

(Symbols are Typical Only)



ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER M.3

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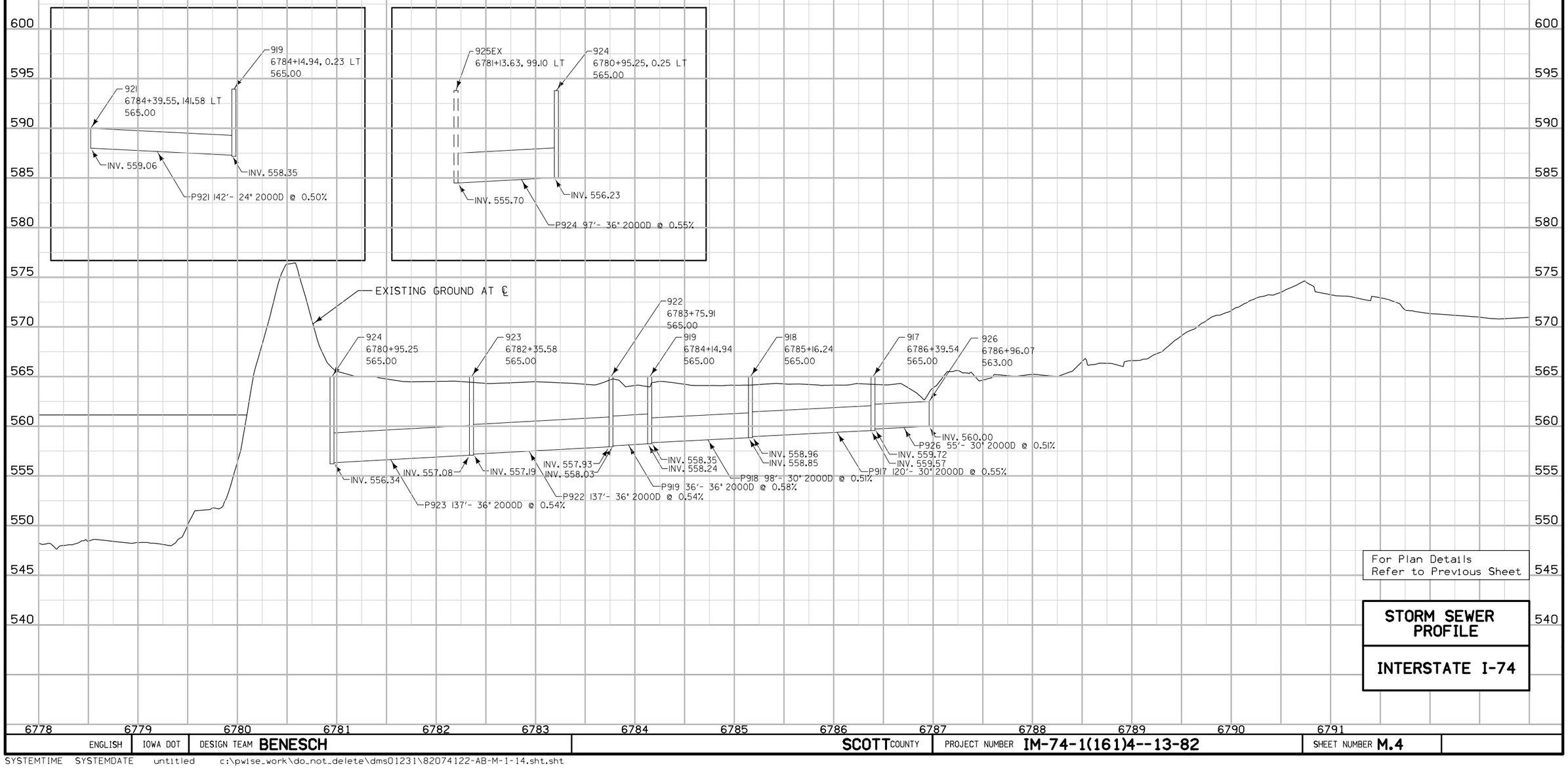

For Plan Details
Refer to Previous Sheet

STORM SEWER PROFILE

INTERSTATE I-74

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **M.4**

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EX. 13TH ST

EX. 1-74 ENT. RAMP

EX. BROWN ST

EX. CALVERT DR.

980EX

P908

908

TEMP10

TMP10

6795

6800

5089

TMP9

745EX

Connect to Existing Manhole

TEMP9

EX. 14TH ST

EX. GRANT ST

EX. BROWN ST

EX. MISSISSIPPI BLVD.

0 FEET 50

For Profile Details
Refer to next sheet.

STORM SEWER PLAN

INTERSTATE 74

ENGLISH | IOWA DOT | DESIGN TEAM BENESCH | SCOTT COUNTY | PROJECT NUMBER IM-74-1(161)4--13-82 | SHEET NUMBER M.5

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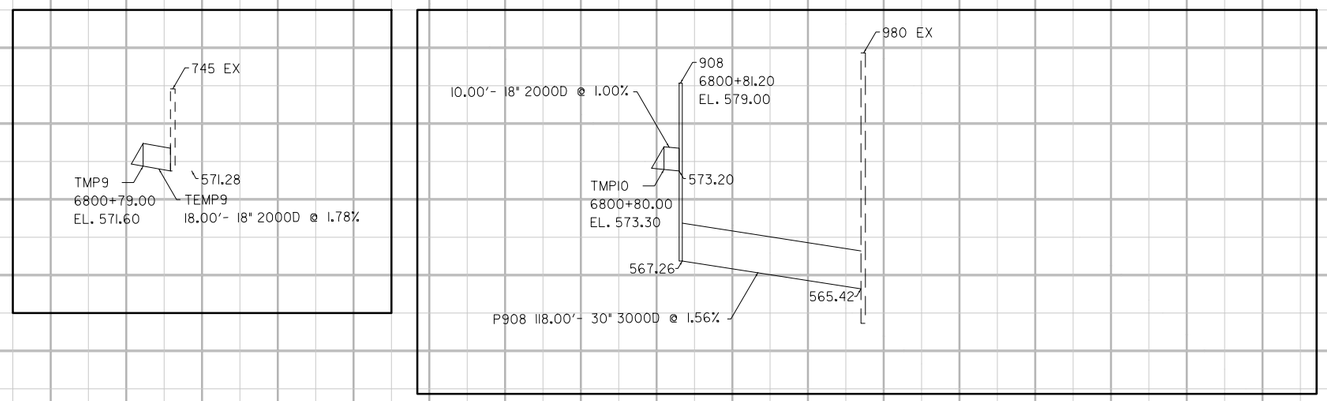

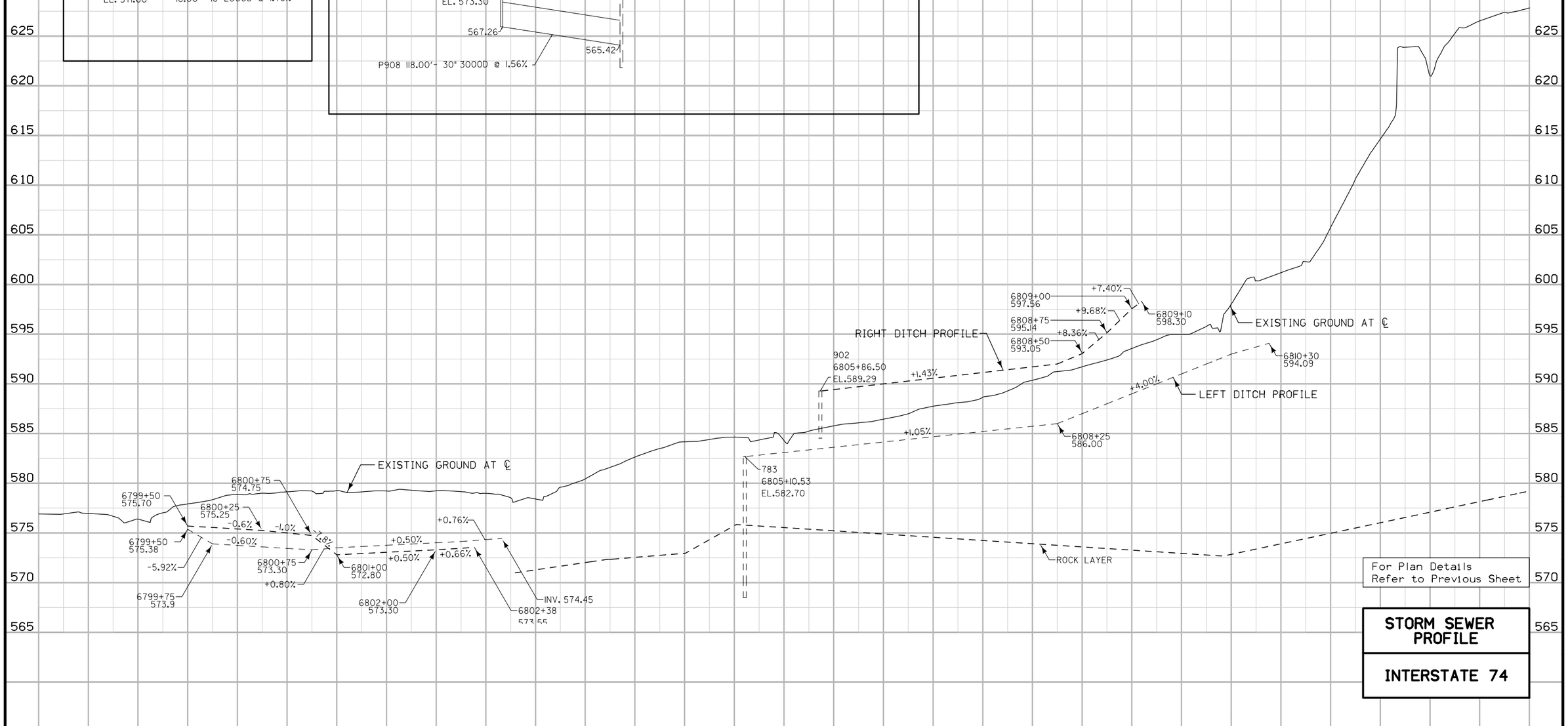

For Plan Details
Refer to Previous Sheet

STORM SEWER PROFILE

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER M.6

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-M-1-12.sht.sht

EX. MISSISSIPPI BLVD

EX. I-74 EXIT RAMP

6805

6810

6815

6820

PROPOSED SHOULDER STRENGTHENING

+58.02

SCI002
Elev. 634.4

SBI001
Elev. 584.6

SBI004
Elev. 597.2

RCI004
Elev. 645.9

+34.50

+76.82

EX. CALVERT DRIVE

EX. E KIMBERLY RD

EX. I-74 ENT. RAMP

EX. 14TH ST

0 FEET 50

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM	HANSON PROFESSIONAL SERVICES	SCOTT	COUNTY	PROJECT NUMBER	IM-74-1(161)4--13-82	SHEET NUMBER	Q.1

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CUT MOISTURE -
CUT DENSITY (lb/cu ft) -
PLASTIC LIMIT -

SUBGRADE TREATMENT (NO. 1) - SEE TAB 103-3 (C SHEETS)
SUBGRADE TREATMENT (NO. 2) - SEE TAB 103-3 (C SHEETS)

SHELBY TUBE CORE DATA

CORE NO.	SB1004-A	SC1002-A	SC1002-B	SC1002-C
CLASSIFICATION [AASHTO]	A-6	A-4	A-4	A-6
COEFF. CONSOL. SQ.FT /DAY	0.26	-	-	-
TRIAXIAL COMPRESSION	UC	-	-	-
COHESION - PSF	144	-	-	-
FRICTION COEFF.	0.42	-	-	-
MOISTURE CONTENT %	30.0	-	-	-
DRY DENSITY - PCF	93.1	-	-	-

UU-UNCONSOLIDATED & UNDRAINED
UC-CONSOLIDATED & UNDRAINED

ASPHALT
[A-6] STIFF LEAN CLAY BROWN
[A-6] STIFF LEAN CLAY WITH SAND OLIVE GRAY
[A-7] SOFT FAT CLAY BROWN & GRAY
[A-4] STIFF SILTY CLAY GREENISH GRAY
[A-2-6] DENSE CLAYEY SAND GRAY
[A-6] STIFF LEAN CLAY BROWN
EXISTING GROUND AT ℄
[A-6] LEAN CLAY TOPSOIL
[A-6] SANDY LEAN CLAY LIGHT OLIVE GRAY
[A-2-6] CLAYEY SAND, BROWN
[A-3] WELL GRADED SAND ORANGISH BROWN
[A-4] FIRM SILT, TAN
[A-7] LEAN CLAY, BROWN
[A-6] (15) VERY SOFT LEAN CLAY LIGHT GRAY/BROWN
[A-4] VERY STIFF SILT DARK BROWN
[A-4-7] FIRM CLAY, BROWN
[A-6] SANDY LEAN CLAY TRACE GRAVEL BLUISH GRAY
[A-6] VERY SOFT SILTY CLAY LIGHT GRAY
[A-4] SANDY SILT DARK GRAY
[A-3] WELL GRADED SAND ORANGISH BROWN
LIMESTONE
LIMESTONE

SB1001 RT. 2ft
SB1004 RT. 2ft
SC1002 LT. 53ft
RC1004 RT. 6ft

BLOW COUNT NO. BLOWS
ROCK CORE REC/RQD (%)

INTERSTATE 74

For Plan Details Refer to Sheet No. Q.1

UNSUITABLE
SUBGRADE TREATMENT
SHALE
ROCK
SELECT SOIL
SANDY SOIL
DENS. CORE
SELECT SAND
SHELBY
BLOW
SAMPLE
PLUGGED
WATER
MOISTURE

ENGLISH	IOWA DOT	DESIGN TEAM	HANSON PROFESSIONAL SERVICES	SCOTT	COUNTY	PROJECT NUMBER	IM-74-1(161)4--13-82	SHEET NUMBER	Q.2

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EX. HIGHLAND PARK DR

EX. KIMBERLY RIDGE RD

6820

6825

+01.27

+61.69

6830

6835

RCI005
Elev. 655.3

RCI006
Elev. 658.9

RCI007
Elev. 662.0

BR2002
Elev. 663.0

+34.50

+79.43

PROPOSED SHOULDER STRENGTHENING

EX. HIGHLAND CT

EX. HIGHLAND PARK DR

0 50
FEET

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM	HANSON PROFESSIONAL SERVICES	SCOTT COUNTY	PROJECT NUMBER	IM-74-1(161)4--13-82	SHEET NUMBER	Q.3

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CUT MOISTURE -
CUT DENSITY (lb/cu ft.) -
PLASTIC LIMIT -

SUBGRADE TREATMENT (NO. 2) - SEE TAB 103-3 (C SHEETS)

SUBGRADE TREATMENT (NO. 3) - SEE TAB 103-3 (C SHEETS)
SUBGRADE TREATMENT (NO. 4) - SEE TAB 103-3 (C SHEETS)

SHELBY TUBE CORE DATA

CORE NO.	BR2002-A	BR2002-B
CLASSIFICATION [AASHTO]	A-4	A-4
COEFF. CONSOL. SQ.FT /DAY	-	-
TRIAXIAL COMPRESSION	-	-
COHESION - PSF	-	-
FRICTION COEFF.	-	-
MOISTURE CONTENT %	-	-
DRY DENSITY - PCF	-	-

UU-UNCONSOLIDATED & UNDRAINED
UC-CONSOLIDATED & UNDRAINED

EXISTING GROUND AT ℄

[A-6] VERY STIFF LEAN CLAY BROWN
[A-6] STIFF LEAN CLAY BROWN
[A-7] STIFF FAT CLAY DARK GRAY
[A-6] SOFT LEAN CLAY DARK GRAY/BLACK
[A-6] STIFF SANDY CLAY BROWN & GRAY
[A-7] FIRM FAT CLAY, DARK GRAY
[A-6] STIFF LEAN CLAY GREENISH GRAY
[A-6] STIFF SANDY CLAY GREENISH GRAY
[A-1-a] GRAVEL (FILL)
[A-4] VERY STIFF SILT BROWN/GRAY A
[A-4] SOFT SILTY CLAY GRAY B
[A-5] SOFT ORGANIC CLAY GREENISH GRAY
[A-6] SOFT SANDY CLAY GRAY
[A-6] STIFF SANDY LEAN CLAY TRACE GRAVEL GRAY/BROWN
[A-6] VERY STIFF SANDY LEAN CLAY TRACE GRAVEL GRAY

RC1005 LT. 9ft
RC1006 RT. 6ft
RC1007 LT. 8ft
BR2002* RT. 2ft

* BORING BR2002 CONTINUES TO 101 FT DEPTH MAINTAINING THE SAME SOIL PROFILE.

BLOW COUNT NO. BLOWS
10
50/1"

ROCK CORE REC/RQD (%)
98/53

INTERSTATE 74

For Plan Details Refer to Sheet No. Q.3

UNSUITABLE
SUBGRADE TREATMENT
SHALE
ROCK
SELECT SOIL
SANDY SOIL
DENS. CORE
SELECT SAND
SHELBY
BLOW
SAMPLE
PLUGGED
WATER
MOISTURE

ENGLISH	IOWA DOT	DESIGN TEAM HANSON PROFESSIONAL SERVICES	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER Q.4

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EX. LINCOLN RD

6835

6840

6845

6850

+56.70

+03.72

RNI00I
Elev. 664.2

PROPOSED SHOULDER STRENGTHENING

EX. I-74 ENT. RAMP

EX. I-74 EXIT RAMP

EX. MEADOW LANE DR

EX. FAIRLANE DR

EX. PARKLANE DR

0 FEET 50

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM	HANSON PROFESSIONAL SERVICES	SCOTT	COUNTY	PROJECT NUMBER	IM-74-1(161)4--13-82	SHEET NUMBER	Q.5

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CUT MOISTURE -
CUT DENSITY (lb/cu ft.) -
PLASTIC LIMIT -

SUBGRADE TREATMENT (NO. 3) - SEE TAB 103-3 (C SHEETS)

SUBGRADE TREATMENT (NO. 4)
SEE TAB 103-3 (C SHEETS)

715
710
705
700
695
690
685
680
675
670
665
660
655
650
645
640
635
630
625

[A-1-a]
GRAVEL (FILL)

EXISTING GROUND AT ℄

8
24
5
5
6
4
21
18
21

[A-6]
STIFF SILTY CLAY
TRACE SAND & GRAVEL
BROWN/GRAY

RN1001
C.L.

6835 6836 6837 6838 6839 6840 6841 6842 6843 6844 6845 6846 6847 6848 6849 6850

UNSUITABLE
SUBGRADE TREATMENT
SHALE
ROCK
SELECT SOIL
SANDY SOIL
DENS. CORE
SELECT SAND
SHELBY
BLOW
SAMPLE
PLUGGED
WATER
MOISTURE

BLOW COUNT
NO. BLOWS
10
50/1"

ROCK CORE
REC/RQD
(%)
98/53

INTERSTATE 74

For Plan Details
Refer to Sheet No. Q.5

ENGLISH	IOWA DOT	DESIGN TEAM HANSON PROFESSIONAL SERVICES	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER Q.6

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Refer to Standard Plan EW-101 and RL-1B.

STATION	TOTAL CUT	TOPSOIL CLASS 10 SAVED -C	CLASS 10 SUITABLE CUT	ADJUSTED CLASS 10 TOTAL	TOTAL FILL	CLASS 10 SUITABLE + 30% SHRINK	TOTAL FILL WITH SHRINK	EXCAVATION, CL 12
I-74								
YEAR1								
6799+50.00	88		88	88	1	1	1	
6799+75.00	144		144	144	6	8	8	
6800+00.00	168		168	168	7	9	9	
6800+25.00	186		186	186	2	3	3	
6800+50.00	195		195	195	1	1	1	
6800+75.00	209		209	209				
6801+00.00	231		231	231				
6801+25.00	233		233	233				
6801+50.00	234		234	234				
6801+75.00	245		245	245				
6802+00.00	247		247	247				
6802+25.00	194		194	194				
6802+50.00								
EXISTING								
ROADWAY	145		145	145	619	805	805	
6803+50.00	62		62	62	607	789	789	
6803+75.00	122		122	122	577	750	750	
6804+00.00	118		118	118	561	729	729	
6804+25.00	117		117	117	569	740	740	
6804+50.00	117		117	117	610	793	793	
6804+75.00	58		58	58	650	845	845	
6805+00.00	211	203	8	8	1030	1339	1339	
6805+50.00	240	219	21	21	696	905	905	
6805+75.00	292	271	21	21	1281	1665	1665	
6806+00.00	308	300	8	8	1486	1932	1932	
6806+25.00	293	286	7	7	1391	1808	1808	
6806+50.00	281	272	9	9	1304	1695	1695	
6806+75.00	271	258	13	13	1196	1555	1555	
6807+00.00	262	243	19	19	1088	1414	1414	
6807+25.00	250	227	23	23	1062	1381	1381	
6807+50.00	236	213	23	23	1061	1379	1379	
6807+75.00	225	197	28	28	957	1244	1244	
6808+00.00	212	179	33	33	837	1088	1088	
6808+25.00	198	166	32	32	782	1017	1017	
6808+50.00	184	158	26	26	758	985	985	
6808+75.00	174	152	22	22	718	933	933	
6809+00.00	67	59	8	8	270	351	351	
6809+10.00	98	87	11	11	388	504	504	
6809+25.00	153	135	18	18	604	785	785	
6809+50.00	135	120	15	15	555	722	722	
6809+75.00	49	44	5	5	204	265	265	
6809+85.00	66	60	6	6	266	346	346	
6810+00.00	92	84	8	8	334	434	434	
6810+25.00	42	38	4	4	131	170	170	
6810+38.00	35	31	4	4	103	134	134	
6810+50.00								
SUBTOTAL	7487	4002	3485	3485	22712	29524	29524	
TOTAL	7487	4002	3485	3485	22712	29524	29524	

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Earth Dam or Dike (Proposed)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Proposed Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Proposed Intake
- Existing Utility Access (Manhole)
- Proposed Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)

- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Luminaire
- Traffic Signal
- Traffic Signal with Luminaire
- TP Telephone Pedestal
- TVP Television Pedestal
- Telephone Pole
- Telephone Pole (Second Company)
- Telephone Pole (Third Company)
- Telephone Pole (Fourth Company)
- Telephone Pole (Fifth Company)
- Power Pole
- Power Pole (Second Company)
- Power Pole (Third Company)
- Power Pole (Fourth Company)
- Power Pole (Fifth Company)
- Electrical Highline Tower (Metal or Concrete)
- Telephone Riser Pole
- Power Riser Pole
- Telegraph Pole
- Satellite TV Dish
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- EB Electric Box
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box

- FO Existing Fiber Optics (Central Scott)
- FO2 Existing Fiber Optics (Mcleod USA)
- FO3 Existing Fiber Optics (Qwest)
- FO4 Existing Fiber Optics (ATT)
- FO6 Existing Fiber Optics (MediaCom)
- FO8 Existing Fiber Optics (Bettendorf)
- FO9 Existing Fiber Optics (IowaDOT)
- E Existing Power Line (MidAmerican)
- E2 Existing Power Line (MidAmerican)
- E3 Existing Power Line (MidAmerican)
- E4 Existing Power Line (MidAmerican)
- E5 Existing Power Line (IowaDOT)
- G Existing Gas Line (MidAmerican)
- G-HP Existing High Pressure Gas Line (MidAmerican)
- San. Existing Sanitary Sewer Line (Bettendorf)
- San.2 Existing Sanitary Sewer Line (Davenport)
- T Existing Telephone Line (Qwest)
- TV Existing Cable Television Line (MediaCom)
- TV2 Existing Cable Television Line (MediaCom)
- W Existing Water Line (IA American)

PLAN VIEW LEGEND OF PLAN SHEETS (ROAD)

SHADING	Design Color No.	
Gray, Light	(48)	Proposed Bridge Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Pavement Shading

CONVENTIONAL SIGNS

- Station / Reference Point — Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- XXXXXXX Linear Removal
- Abandon Pipe
- Clearing & Grubbing Area
- Pavement Removal
- Bridge Removal by Others

RIGHT OF WAY LEGEND

- Proposed Right of Way
- Existing and Proposed Right of Way
- Easement and Existing Right of Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

TABULATION OF UTILITIES

102-13A
10-29-02

CENTRAL SCOTT TELEPHONE: Fiber Optics
McLEOD USA: Fiber Optics
QWEST COMMUNICATIONS: Fiber Optics, Telephone Lines
AT&T: Fiber Optics
MEDIACOM: Fiber Optics, Television
BETTENDORF: Fiber Optics
IOWA DOT: Fiber Optics, Power Lines
MIDAMERICAN ENERGY - Power Lines, Gas
BETTENDORF: Sanitary Sewer Line
DAVENPORT: Sanitary Sewer Line
IA-AMERICAN: Water Line

Legend And Symbol Information Sheet

U SHEETS

(Symbols are Typical Only)

EX. I-74 EB

EX. I-74 WB

EX. GILBERT ST

6775

6780

6785

6790

BIKE TRAIL

EX. 15TH ST

EX. GILBERT ST

0 FEET 50

REMOVAL DETAILS

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER U.2	

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Curve 21015 (I-74)
PI Sta 6801+41.31
R = 03°50'58.23" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

Curve 21017 (I-74 EB)
PI Sta 26805+14.75
R = 03°50'58.22" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

EX. STATE ST

EX. I-74 ENT. RAMP

EX. BROWN ST

6790

6795

6800

6805

PC Sta 6796+70.83

PI Sta 6801+41.31

CLEARING AND GRUBBING
1.41 Acres

CLEARING AND GRUBBING
1.53 Acres

EX. 14TH ST

EX. 15TH ST

EX. STATE ST

EX. BROWN ST

EX. MISSISSIPPI BLVD.

Curve 21016 (I-74 WB)
PI Sta 16797+67.87
R = 03°50'58.24" LT
D = 0°24'33.32"
R = 14000.00
T = 470.48
L = 940.61
E = 7.90
e = N.C.
L = NA
x = NA
m = NA

0 FEET 50

REMOVAL DETAILS

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER U.3

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EX. MISSISSIPPI BLVD

CLEARING AND GRUBBING
2.69 Acres

6805

6810

6815

6820

PT Sta 6806+11.44

+40.19
54.97' LT

+58.02

GUARDRAIL REMOVAL

+92.60
59.99' LT

SHOULDER REMOVAL

+34.50

+76.82

EX. I-74 EXIT RAMP

EX. E KIMBERLY RD

EX. I-74 ENT. RAMP

EX. CALVERT DRIVE

EX. 14TH ST

0 FEET 50

REMOVAL DETAILS

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **U.4**	

SYSTEMTIME SYSTEMDATE untitled c:\pwise_work\do_not_delete\dms01231\82074122-AB-U-1-09.sht.sht

Curve 21020 (I-74)
PI Sta 6832+57.30
R = 04°39'39.15" RT
D = 0°14'56.80"
R = 23000.00
T = 936.01
L = 1871.00
E = 19.04
e = N.C.
L = NA
x = NA
m = NA

Curve 21022 (I-74 EB)
PI STA. = 26832+58.47
Δ = 4° 39' 39" (RT)
D = 0° 14' 56"
R = 23,015.00'
T = 936.62'
L = 1,872.22'
E = 19.05'
e = N.C.
L = NA
x = NA
m = NA

EX. HIGHLAND PARK DR

EX. KIMBERLY RIDGE RD

EX. I-74 EXIT RAMP

6820

6825

+01.27

+61.69

6830

SHOULDER REMOVAL

PI Sta 6832+57.30

6835

+34.50

PC Sta 6823+21.29

EX. I-74 ENT. RAMP

+79.43

EX. HIGHLAND CT

EX. HIGHLAND PARK DR

Curve 21021 (I-74 WB)
PI STA. = 16832+56.13
Δ = 4° 39' 39" (RT)
D = 0° 14' 57"
R = 22,985.00'
T = 935.40'
L = 1,869.78'
E = 19.03'
e = N.C.
L = NA
x = NA
m = NA

0 FEET 50

REMOVAL DETAILS

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER U.5	

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EX. LINCOLN RD

6840

6845

6850

EX. I-74 ENT. RAMP

6835

SHOULDER REMOVAL

+56.70

+03.72

PT Sta 6841+92.29

EX. I-74 EXIT RAMP

EX. MEADOW LANE DR

EX. FAIRLANE DR

EX. PARKLANE DR

0 FEET 50

REMOVAL DETAILS

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **U.6**

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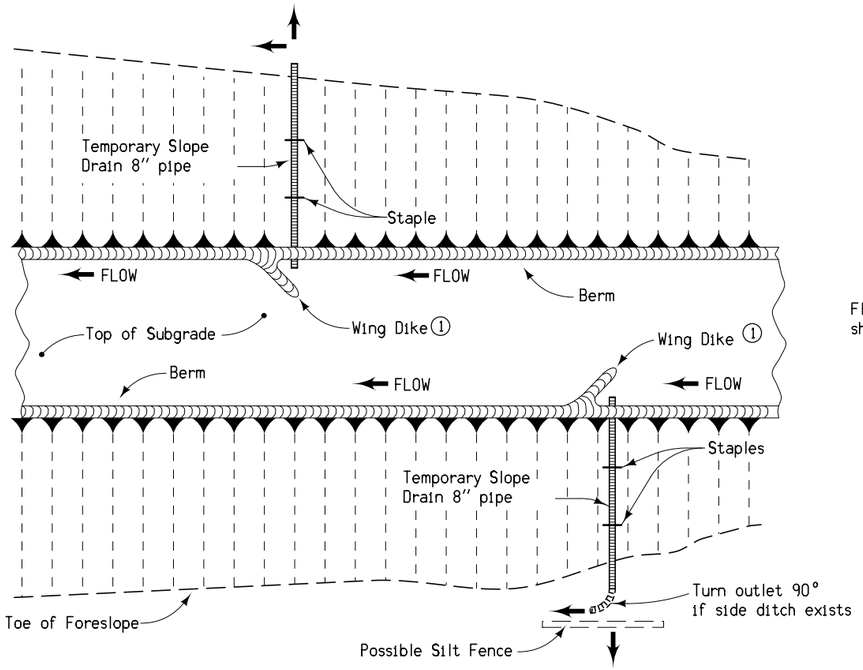
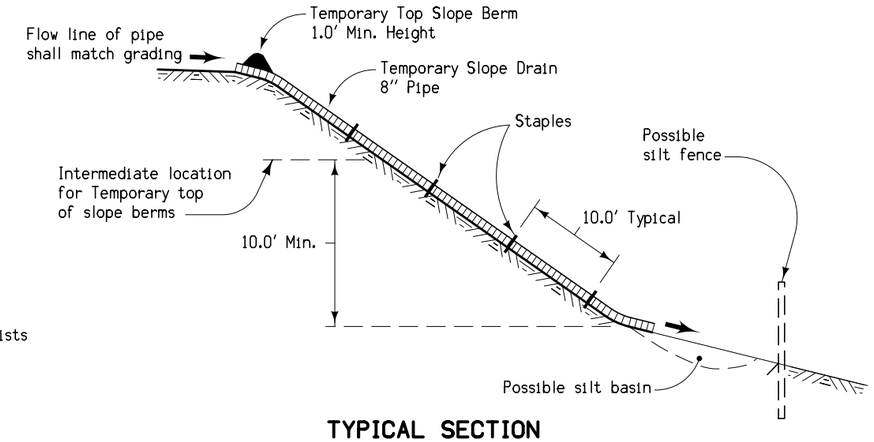
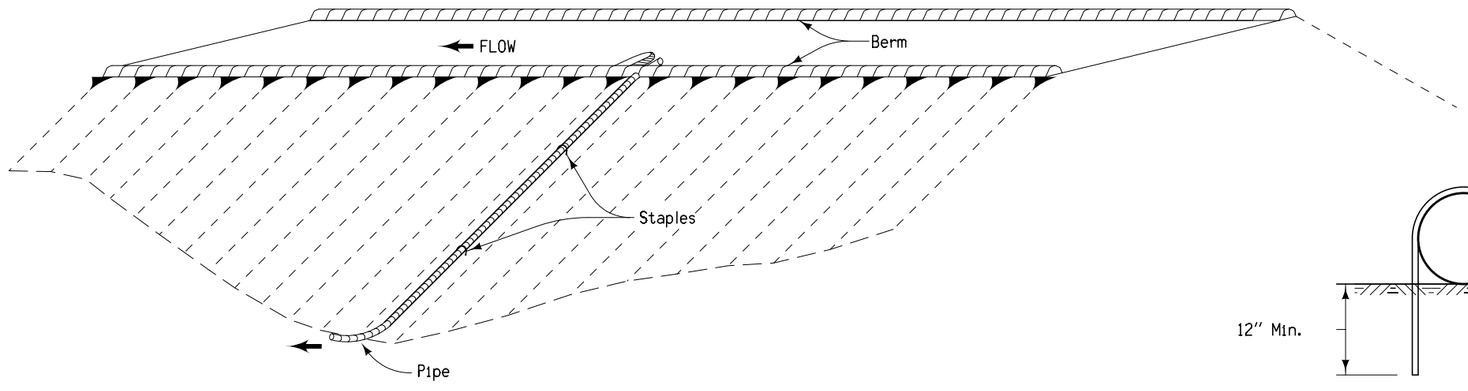


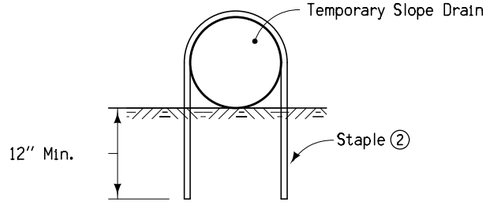
PLAN



TYPICAL SECTION



PERSPECTIVE



STAPLE DETAIL

GENERAL NOTES:

Details indicated hereon are for the installation of a temporary slope drain on the foreslope of the roadway fill. The intent of the temporary slope drain is to prevent foreslope erosion during construction and to minimize the water pollution which might be caused by soil erosion from the project.

At the completion of each day's grading, a temporary berm will be constructed on both sides of the subgrade. At points a maximum of 500' apart, at low points of vertical curves, and as determined by the Engineer, temporary intercepting wing dikes shall be graded and slope drains installed. All special grading work shall be considered incidental to other grading work on the project.

Foreslopes with a vertical height of ten feet or less shall not have temporary slope drains installed.

The temporary slope drain shall consist of a length of pipe capable of extending to the top of foreslope when all grading has been completed. The pipe shall be moved up the foreslope to the new temporary top of slope berm at the completion of each day's work. The pipe shall be Solid Tubing complying with all requirements of ASTM F 405, Standard Duty Tubing.

Method of measurement shall be along the centerline of pipe in its final position.

The price bid for "Temporary Slope Drain, As Per Plan", measured in lineal feet, shall be considered full compensation for the construction of all required temporary top of slope berms, for installing and maintaining the slope drain for the duration of the contract, and for removal of all materials upon the completion of the embankment.

① Typical length of 10.0', 1.0' minimum height

② Staple may be bent reinforcing bar No. 4 minimum, or alternate approved by the Engineer.

Project Development Division

DETAIL SHEET 510-2

REVISION: Place in CADD	REVISION NO.	REVISION DATE
	1	03-28-95

DETAILS OF TEMPORARY SLOPE DRAIN

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER U.7

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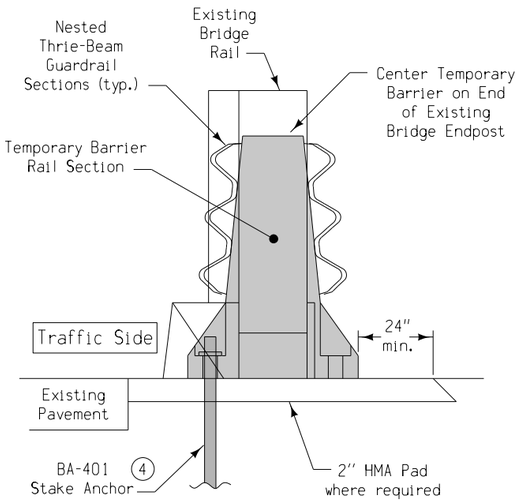
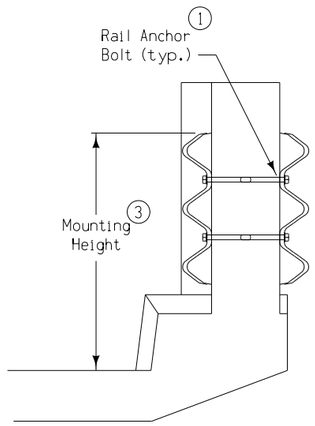
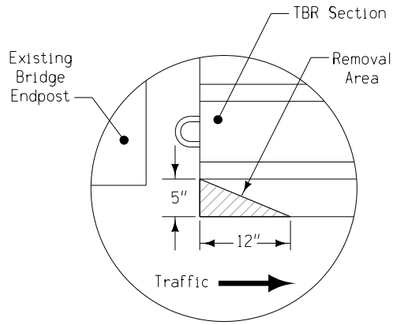


SECTION A-A



SECTION B-B



DETAIL 'A'

Where TBR is installed on the trailing end of a bridge, remove the toe of the first TBR section to the dimensions shown above.

Install temporary barrier rail on a flat, level surface. Removal of curb adjacent to bridge end posts may be necessary. Where anchored TBR sections are not located on existing pavement, construct a 2" minimum thickness HMA pad as shown. When required, removal of curb and construction of HMA pad shall be considered incidental to this contract item.

Upon removal of Temporary to Permanent Barrier Connection, use non-shrink grout complying with Materials I.M. 491.13 to fill any holes that were drilled for attachment of Terminal Connectors to bridge rail.

Contract Item: Temporary to Permanent Barrier Connection

Item includes: 4 - 12'-6" Thrie Beam Guardrail Sections
4 - BA-202 Terminal Connectors
48 - 5/8" dia. Guardrail Splice Bolts and Nuts
20 - 3/4" dia. Rail Anchor Bolts: Powers Fasteners Wedge-Bolt Anchor OR Red Head Large Diameter Tapcon OR Simpson Titen HD Screw Anchor

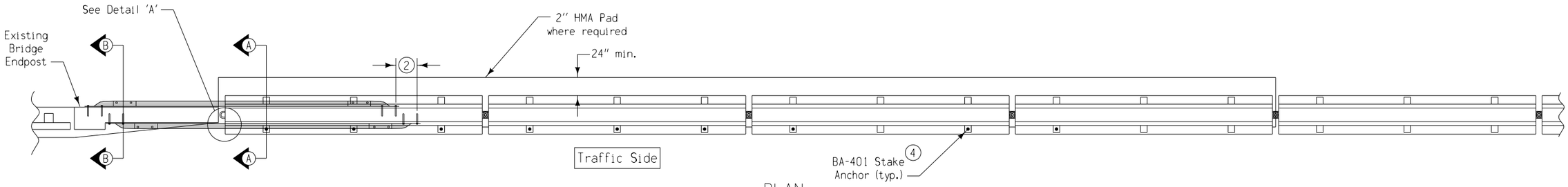
The number of Temporary to Permanent Barrier Connections will be counted. The Contractor will be paid the contract unit price for each Temporary to Permanent Barrier Connection measured as provided above.

(1) Install five (5) Rail Anchor Bolts in each Terminal Connector as shown. Ensure a minimum embedment depth of 6". Drill pilot holes with a core bit. Avoid drilling or cutting through reinforcing steel within TBR sections.

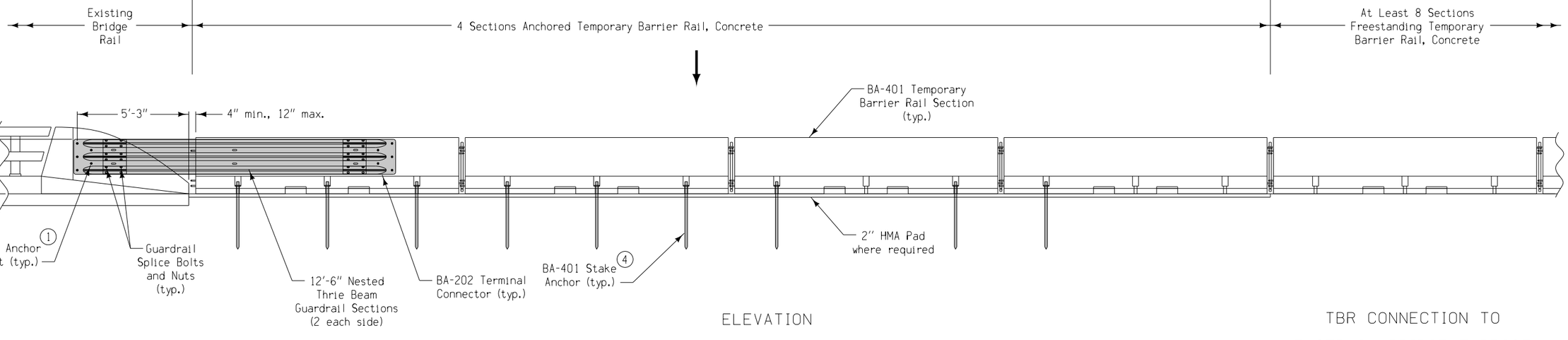
(2) Shift non-traffic-side thrie-beam sections 16" closer to bridge in order to prevent anchor bolt interference.

(3) 32" mounting height preferred. 30" minimum.

(4) Each connection requires nine (9) BA-401 stake anchors as shown. Use of the strap anchorage is not allowed.



PLAN



ELEVATION

TBR CONNECTION TO
FASTBACK BRIDGE ENDPOST

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-74-1(161)4--13-82**	SHEET NUMBER **U.8**

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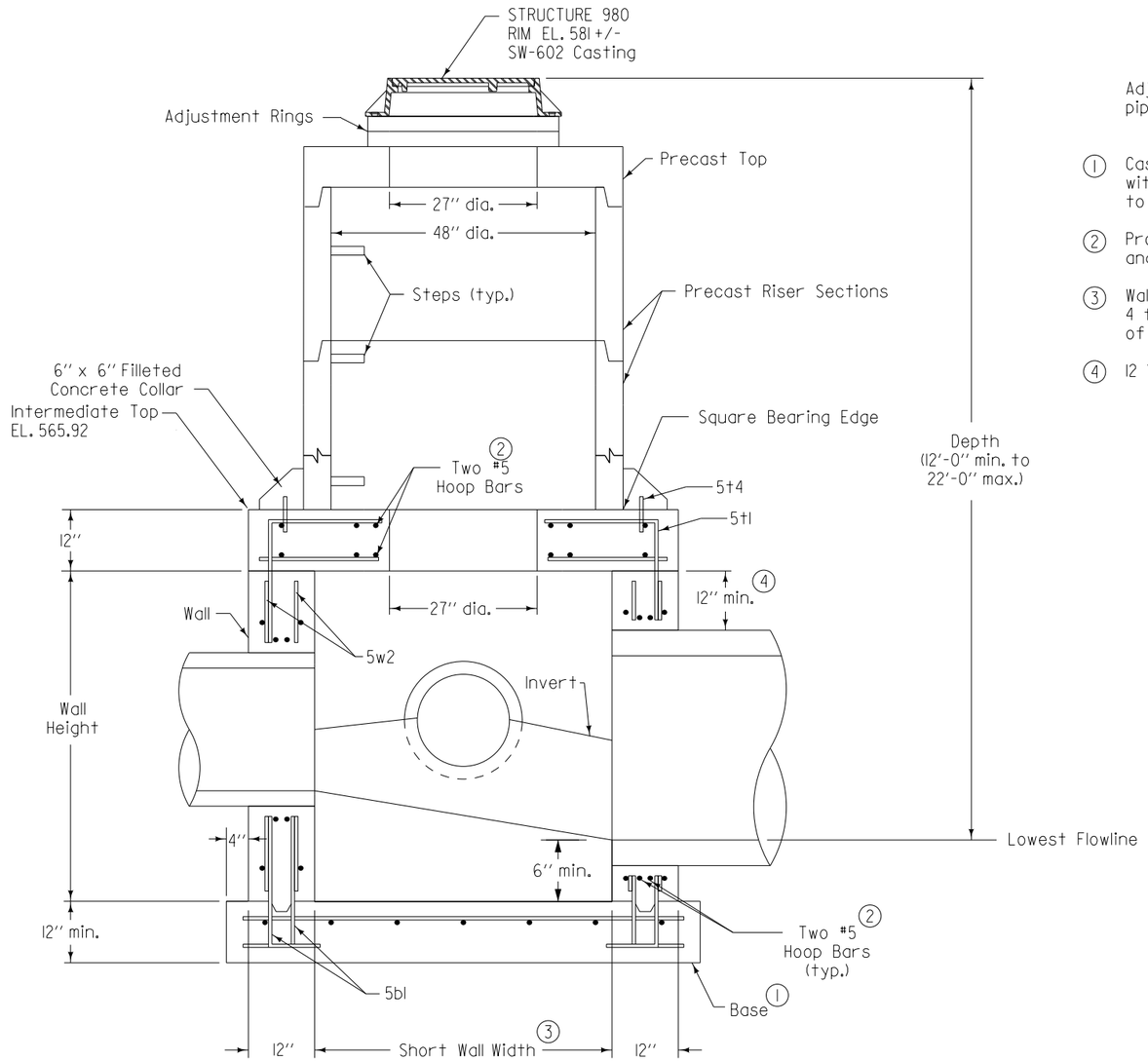
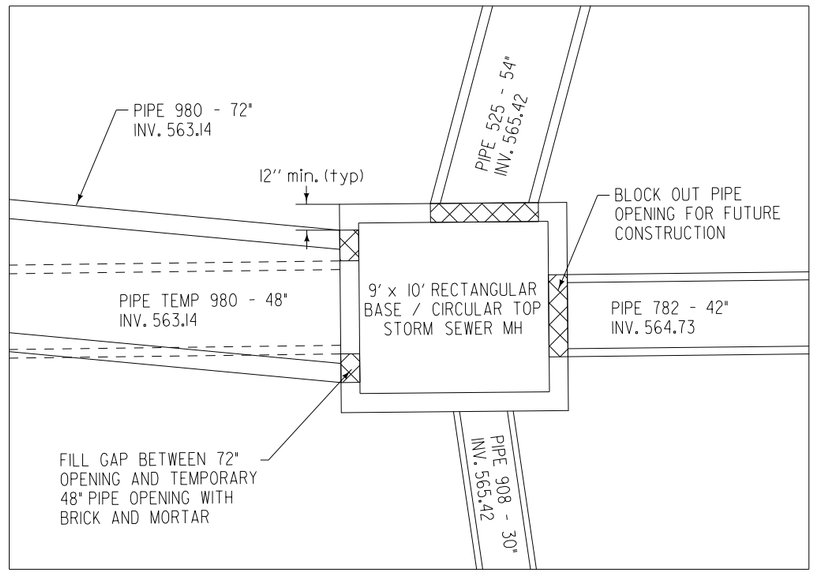


TYPICAL SECTION

Adjacent walls may have different widths based upon pipe configuration, but structure must be rectangular.

1. Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
2. Provide two #5 hoop bars at intermediate top opening and at all pipe openings.
3. Wall widths vary with pipe diameter and range from 4 feet minimum to 12 feet maximum. Provide 12 inches of wall width (minimum) each side of pipe opening.
4. 12 inch minimum wall height above all pipes.



STRUCTURE 980 DETAIL

STRUCTURE 980 CONSTRUCTION DETAILS

PIPE ID	PIPE SIZE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	UPSTREAM LOCATION	DOWNSTREAM LOCATION	UPSTREAM INVERT	DOWNSTREAM INVERT	CONSTRUCTION CONTRACT	NOTES
525	54"	525	980	4612+19.65, 25.33' Lt	6800+96.02, 233.10' Lt.	566.45	565.42	226	Block out pipe opening for future connection
782	42"	782	980	1501+50.00, 50.00' Lt.	6800+96.02, 233.10' Lt.	565.32	564.73	226	Block out pipe opening for future connection
908	30"	908	980	6800+81.20, 111.14' Lt.	6800+96.02, 233.10' Lt.	567.26	565.42	161	
980	72"	980	981	6800+96.02, 233.10' Lt.	6800+56.93, 247.08' Lt.	563.14	562.90	207	Fill gap with brick and mortar plug
TEMP 980	48"	980	-	6800+96.02, 233.10' Lt.	6798+54.30, 292.20' Lt.	563.14	562.90	226	

FIGURE 6010.404 SHEET 1 OF 2

SUDAS | Iowa Department of Transportation

REVISION: NEW 04-21-09

FIGURE 6010.404 | MODIFIED | SW-404 | SHEET 1 of 2

REVISIONS:

SUDAS DIRECTOR | DESIGN METHODS ENGINEER

RECTANGULAR BASE/ CIRCULAR TOP STORM SEWER MANHOLE

ENGLISH | IOWA DOT | DESIGN TEAM BENESCH | SCOTT COUNTY | PROJECT NUMBER IM-74-1(161)4--13-82 | SHEET NUMBER U.9

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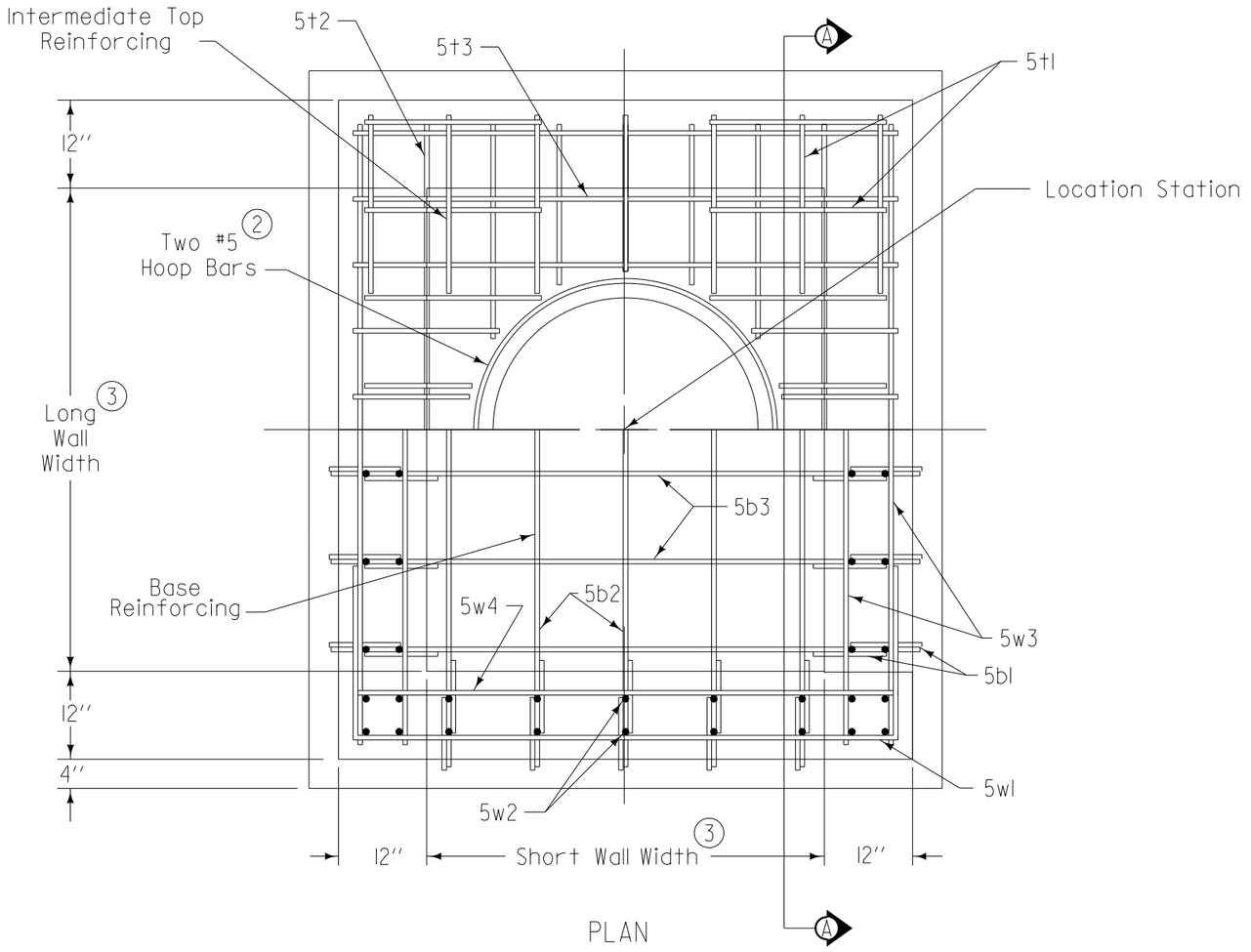
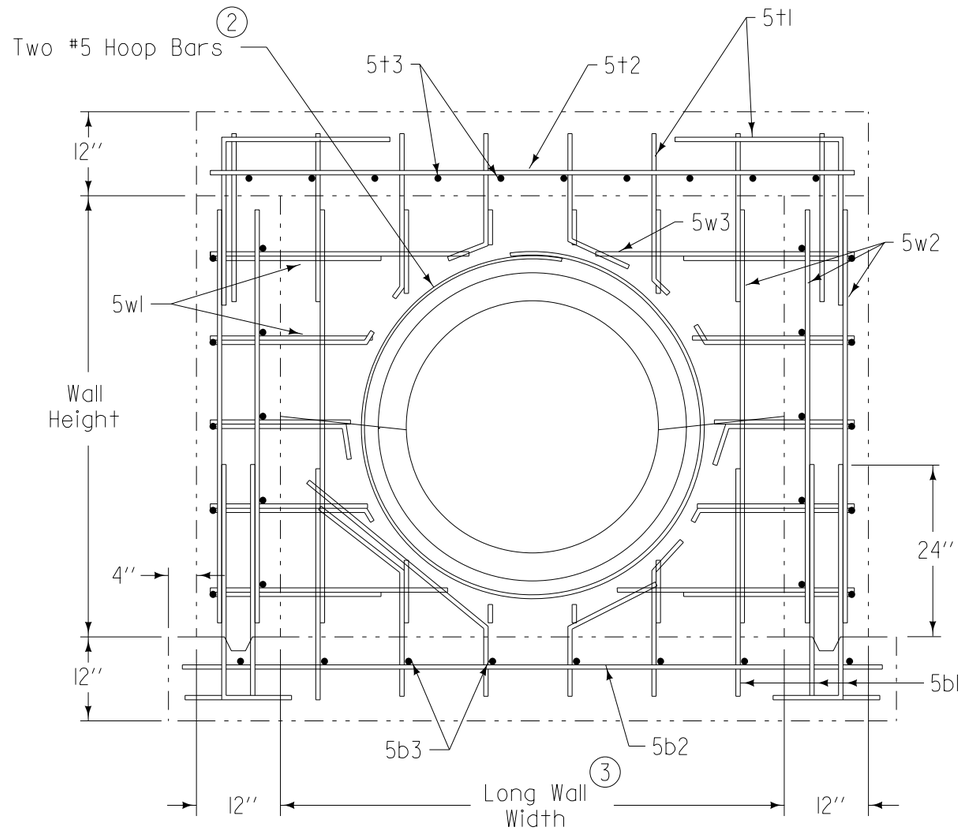


PLAN

2 Provide two #5 hoop bars at intermediate top opening and at all pipe openings.

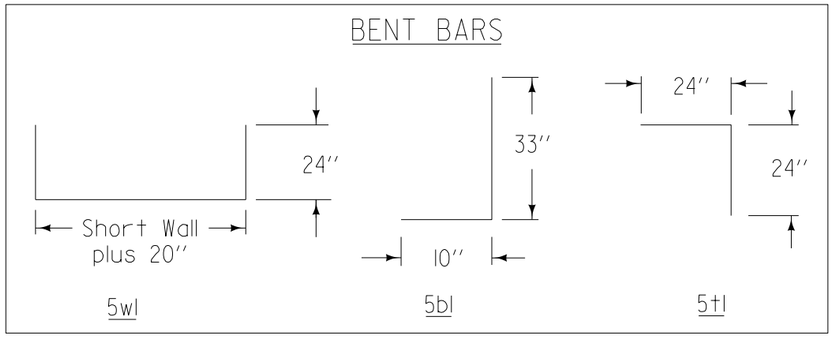
3 Wall widths vary with pipe diameter and range from 4 feet minimum to 10 feet maximum. Provide 12 inches of wall width (minimum) each side of pipe opening.



SECTION A-A

REINFORCING BAR LIST					
Mark	Size	Location	Shape	Length	Spacing
5t1	5	Top	L	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	L	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''

BENT BARS



SUDAS | Iowa Department of Transportation

REVISION: NEW 04-21-09

FIGURE 6010.404 | MODIFIED | SW-404 | SHEET 2 of 2

REVISIONS: New. Replaces SUDAS Type "M-D" Manhole

SUDAS DIRECTOR | DESIGN METHODS ENGINEER

RECTANGULAR BASE/
CIRCULAR TOP
STORM SEWER MANHOLE

FIGURE 6010.404 | SHEET 2 OF 2

ENGLISH | IOWA DOT | DESIGN TEAM BENESCH | SCOTT COUNTY | PROJECT NUMBER IM-74-1(161)4--13-82 | SHEET NUMBER U.10

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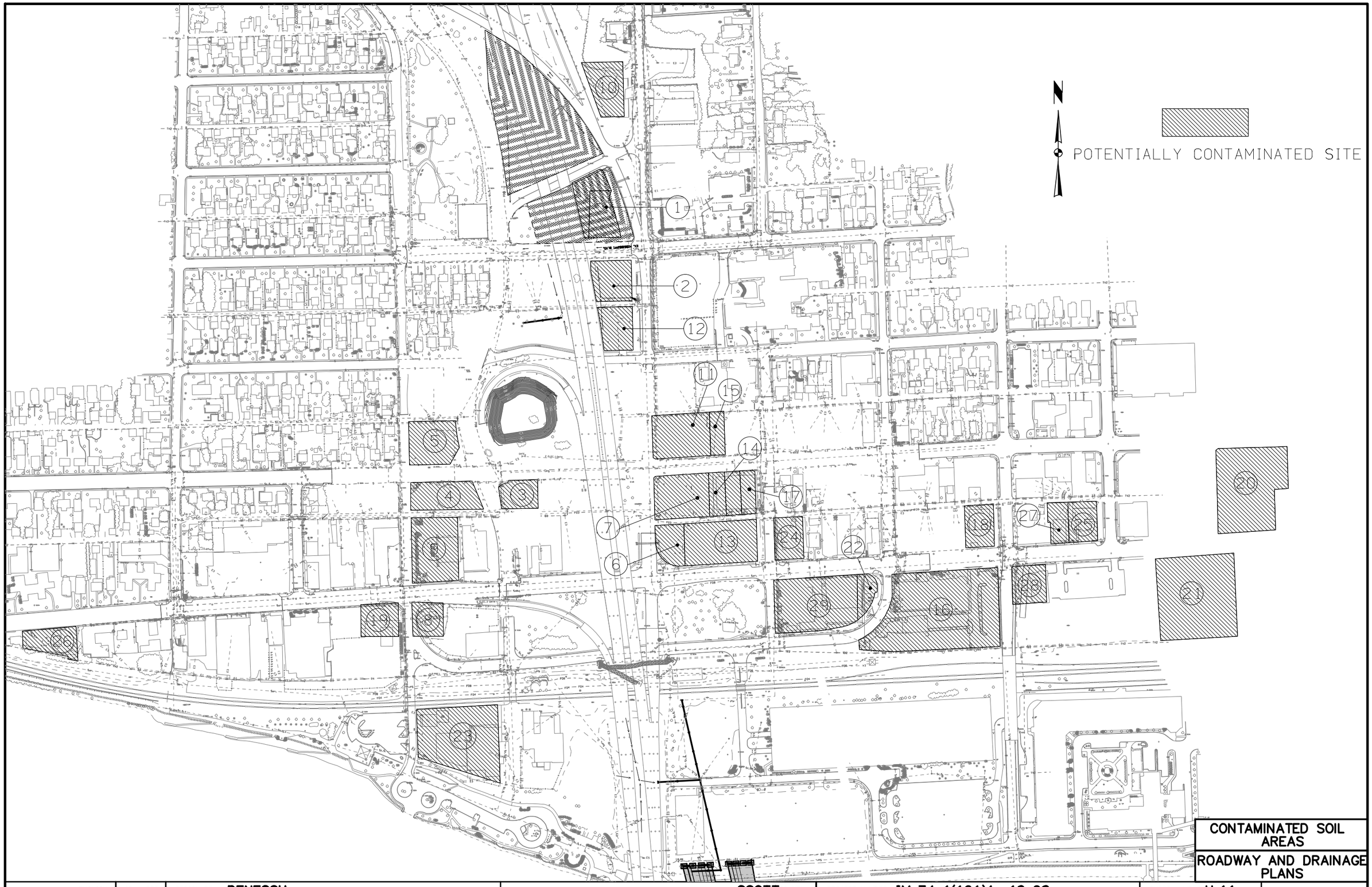

CONTAMINATED SOIL AREAS

ROADWAY AND DRAINAGE PLANS

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER U.11

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Contaminated Soil Summary			PCSS-1 SPECIAL
Location	Description and Address	Site Impacted by this Contract Yes/No	Remarks
1	H & H Car Care Center 612 14th Street	Yes	4 UST removed 1990. DNR - "No Action Req'd" Feb. 2005. Petroleum contamination in recent soil boring.
2	Dale Snapp Co. 536 14th Street	Yes	2 UST removed 1998. Petroleum contamination in recent soil boring.
3	Crescent Economy Inc. 1303 Grant Street	No	No tanks. Dry cleaning chemicals present. DNR statewide standards exceeded (Oct. 2005).
4	Showboat Car Wash 1215 Grant Street	No	3 UST removed 1992. DNR - "No Action Req'd" Aug. 2003.
5	Hoyt & Son Automotive 1210 Grant Street	No	5 UST removed 1996. Previous soil removal project DNR - "No Action Req'd" July 2003.
6	Johnny's Amoco BP/QC Mart 1402 State Street	No	Total of 9 UST: 5 removed 1989 and 4 active; DOT to request owners to remove tanks. DNR - "No Action Req'd" Sep. 2004. Petroleum contamination in recent soil boring.
7	Twin Bridges 66/Shell Oil 333 14th Street	No	Total of 4 UST: 1 removed 1993 and 3 active; DOT to request owners to remove tanks; if not removed then Iowa DOT OLE to remove prior to letting. Petroleum contamination in recent soil boring.
8	Adel Parking Lot 1207 State Street	No	Former gas station. Now part of QCA Spa. Petroleum contamination in ground water from monitoring wells.
9	Village Inn 1210 State Street	No	Petroleum contamination in recent soil borings.
10	Great American Window Co 710 14th Street	No	Petroleum contamination in ground water from monitoring wells.
11	Dart Mart/Big 10 Mart 411 14th Street	No	Total of 5 UST: 1 removed 1990 and 4 active; DOT to request owners to remove tanks; if not removed then Iowa DOT OLE to remove prior to letting. Contamination documented in monitoring wells.

Contaminated Soil Summary			PCSS-1 SPECIAL
Location	Description and Address	Site Impacted by this Contract Yes/No	Remarks
12	Ross' Drive Through 512 14th Street	Yes	No action necessary. No contamination identified.
13	Knox Corporation 1416 State Street	No	No action necessary. No contamination identified.
14	Ross' Restaurant Inc 430 14th Street	No	Contamination documented in monitoring wells.
15	Handy Shop 1430 Grant Street	No	3 UST removed 1992, 2005. Increasing contamination levels in monitoring wells. DNR "No Action Req'd" March 2001.
16	City Hall 1609 State Street	No	Total of 5 UST: 3 UST removed 1988 and one active. Petroleum contamination in recent soil boring.
17	US West 1437 Grant Street	No	1 UST removed 1993. No contamination identified.
18	Car Quest 312 17th Street	No	Contamination documented in monitoring wells.
19	Adel Parking Lot 1159 State Street	No	Owner denied access to property. Potential UST.
20	Lindquist Ford 1910 State Street	No	8 UST removed 1997. DNR "No Action Req'd" Nov. 1998.
21	Plaza Building 1823 State Street	No	Petroleum contamination identified.
22	Kelley's Gas 1543 State Street	No	Total of 5 UST: 2 removed 2000 and 3 active (2 - 6000 gal and 1- 8200 gal); Contamination documented in monitoring wells.
23	Twin Bridges Truck City 131 12th Street	No	2 UST removed 1990. DNR "No Action Req'd" Jan. 1996.
24	Nextel Phone 1504 State Street	No	Former gas station. No documented information.
25	Rapid Lube and Oil 1740 State Street	No	Former gas station. 6 UST removed 1981 to 1987.
26	US Petro Mart 845 State Street	No	Operating gas station identified as LUST site. 4 UST (3-10,000 gal and 1-8,000)
27	Hans Body Shop 1720 State Street	No	Former gas station. No documented information.
28	Bettendorf Auto 1705-1719 State Street	No	No contamination identified.
29	Twin Bridges Motor Inn 221 15th Street	No	No contamination identified.

EX. GILBERT ST

EX. STATE ST

EX. I-74 ENT. RAMP

PC Sta 6796+70.83

PT Sta 6801+11.31

PT Sta 6806+11.44

EX. 14TH ST

EX. E KIMBERLY RD

EX. I-74 ENT. RAMP

EX. 15TH ST

EX. 15TH ST

15TH ST

EX. BROWN ST

EX. 14TH ST

26785 6785 26790 6790 26795 6795 26800 6800 26805 6805 26810 6810

16785 16790 16795 16800 16805 16810

0 FEET 100

CROSS SECTION KEY PLAN

INTERSTATE 74

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-74-1(161)4--13-82	SHEET NUMBER W.1

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I–74

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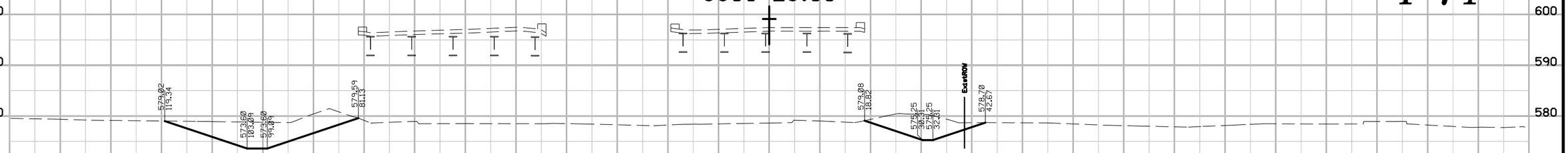

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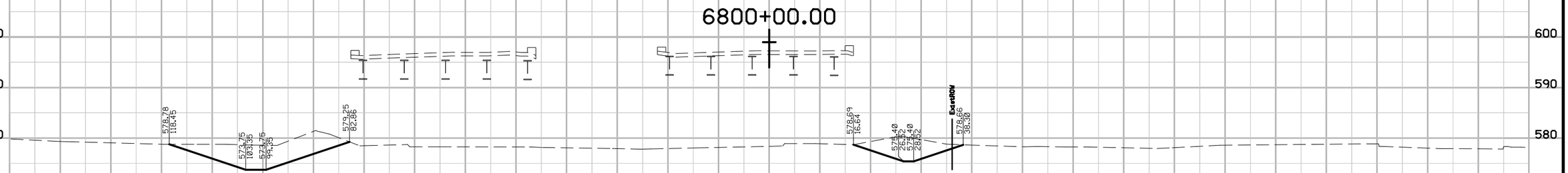

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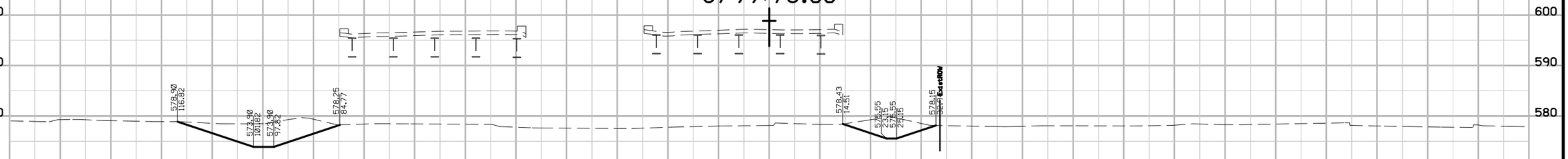

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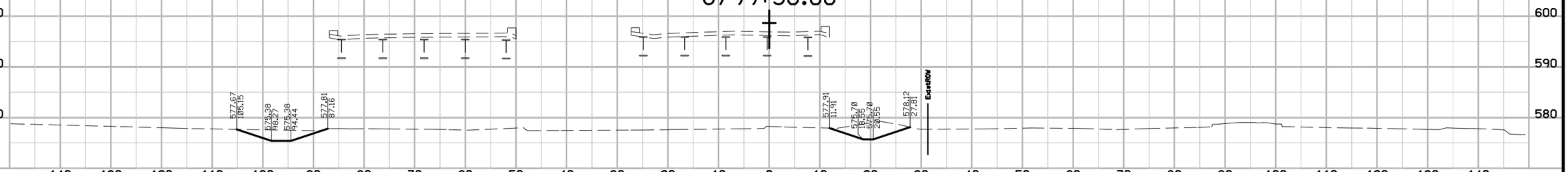

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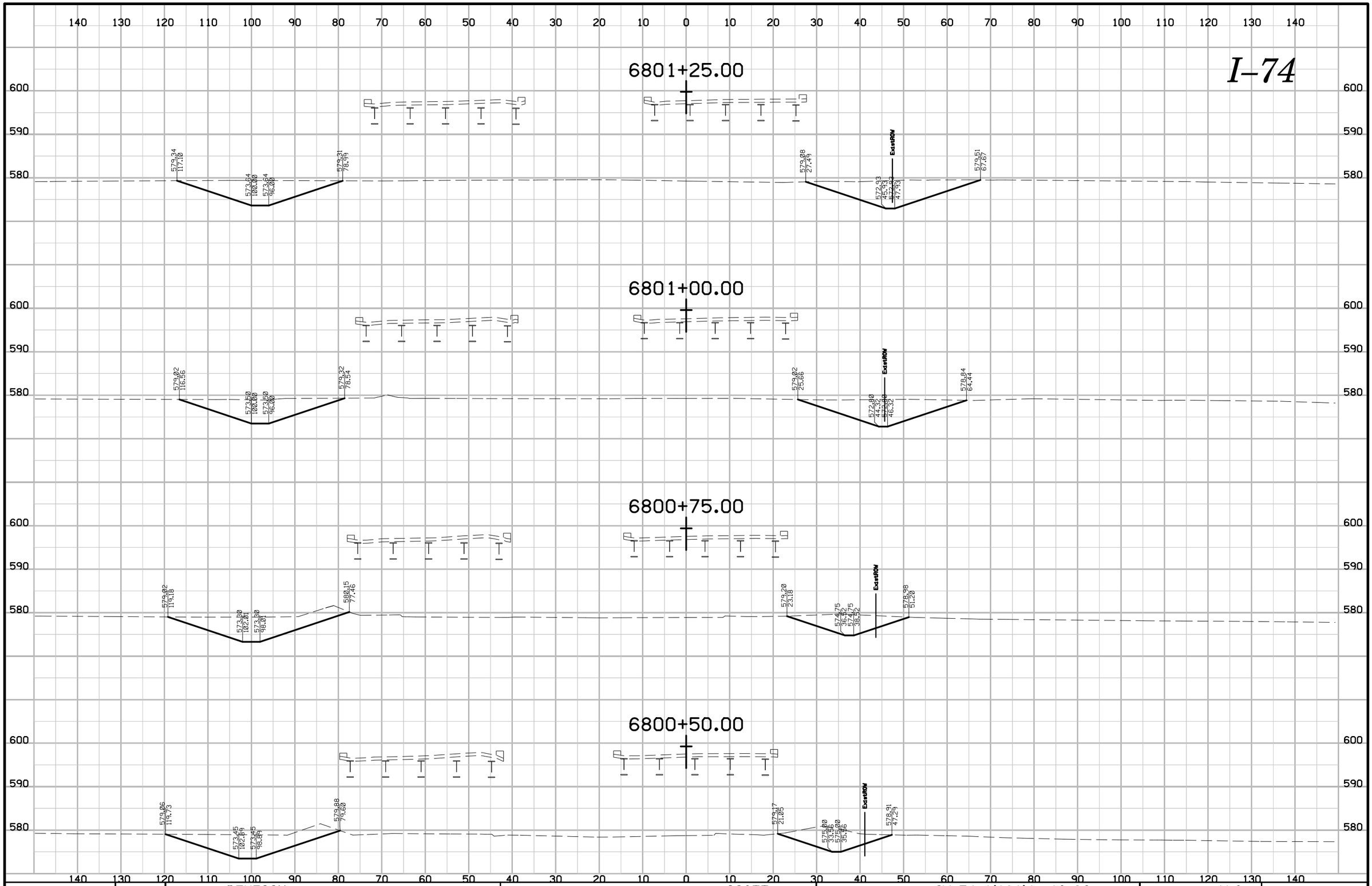

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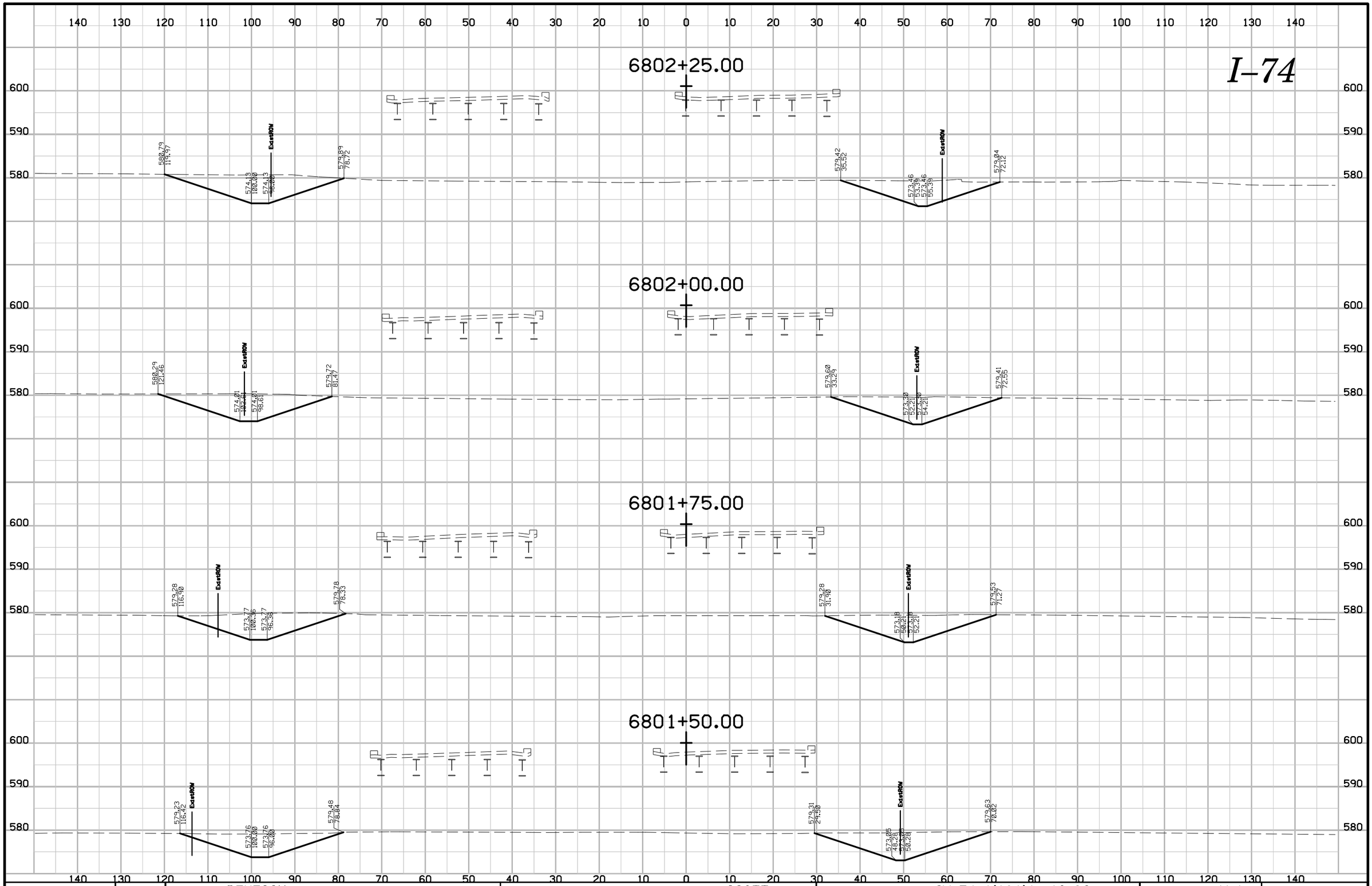
I–74



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I–74

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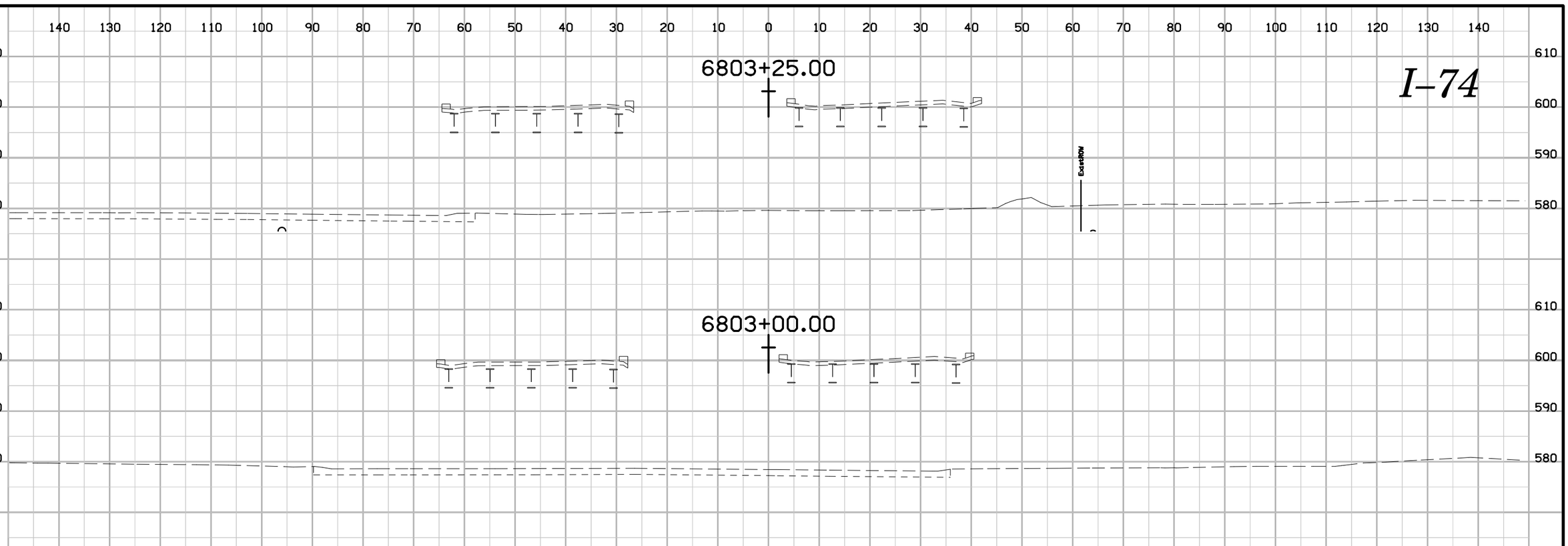

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6802+75.00

6802+50.00

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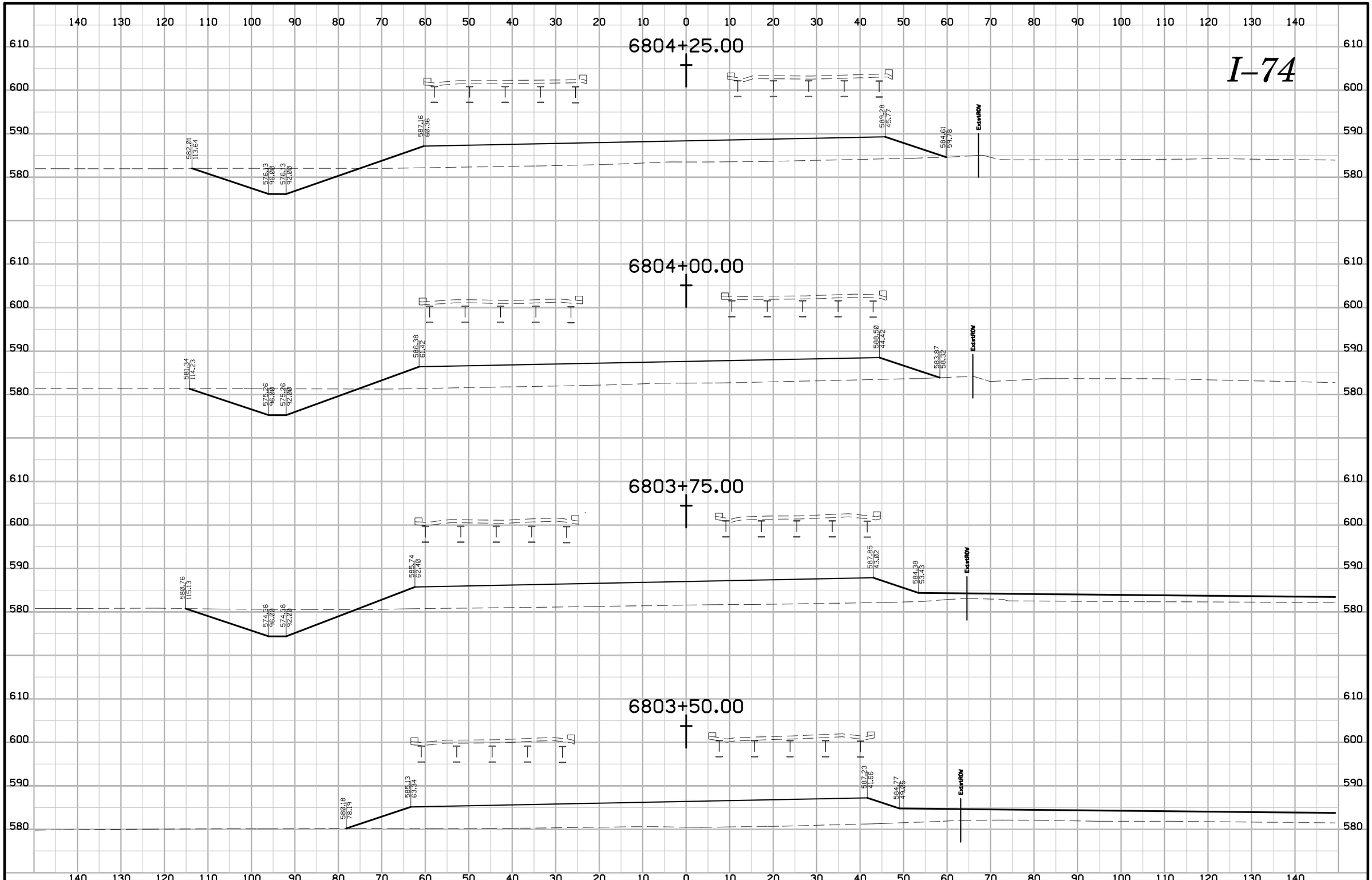
I–74



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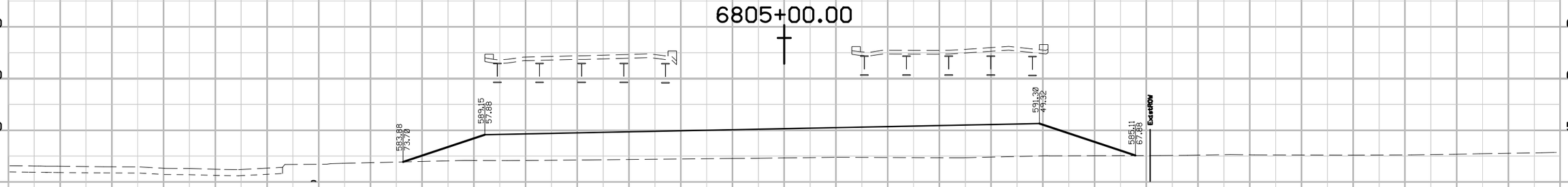

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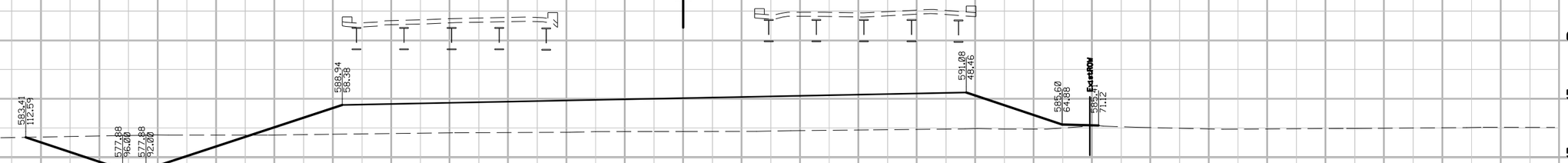

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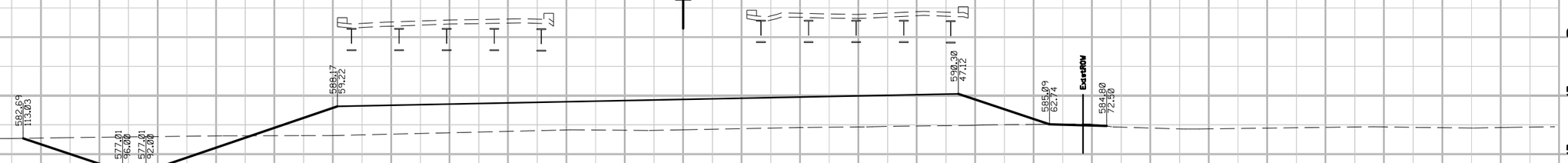

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I–74

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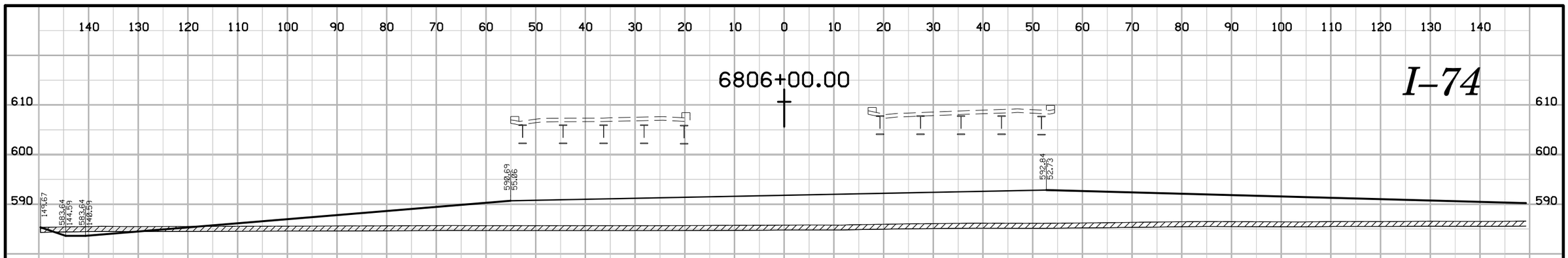

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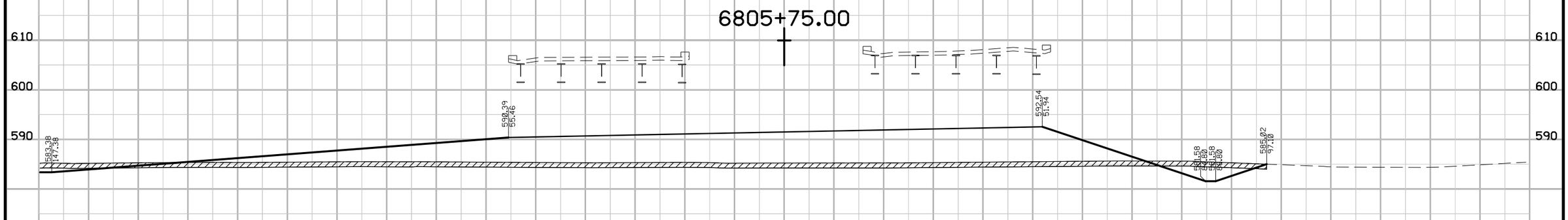

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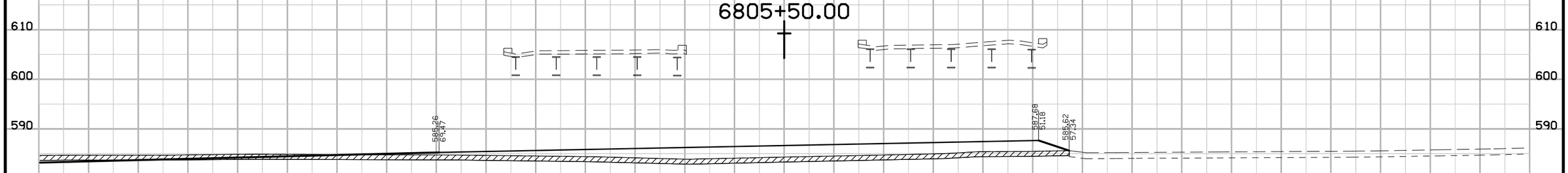

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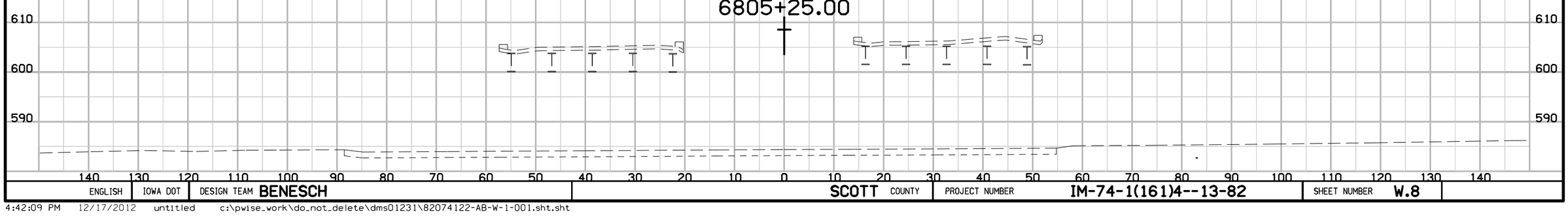

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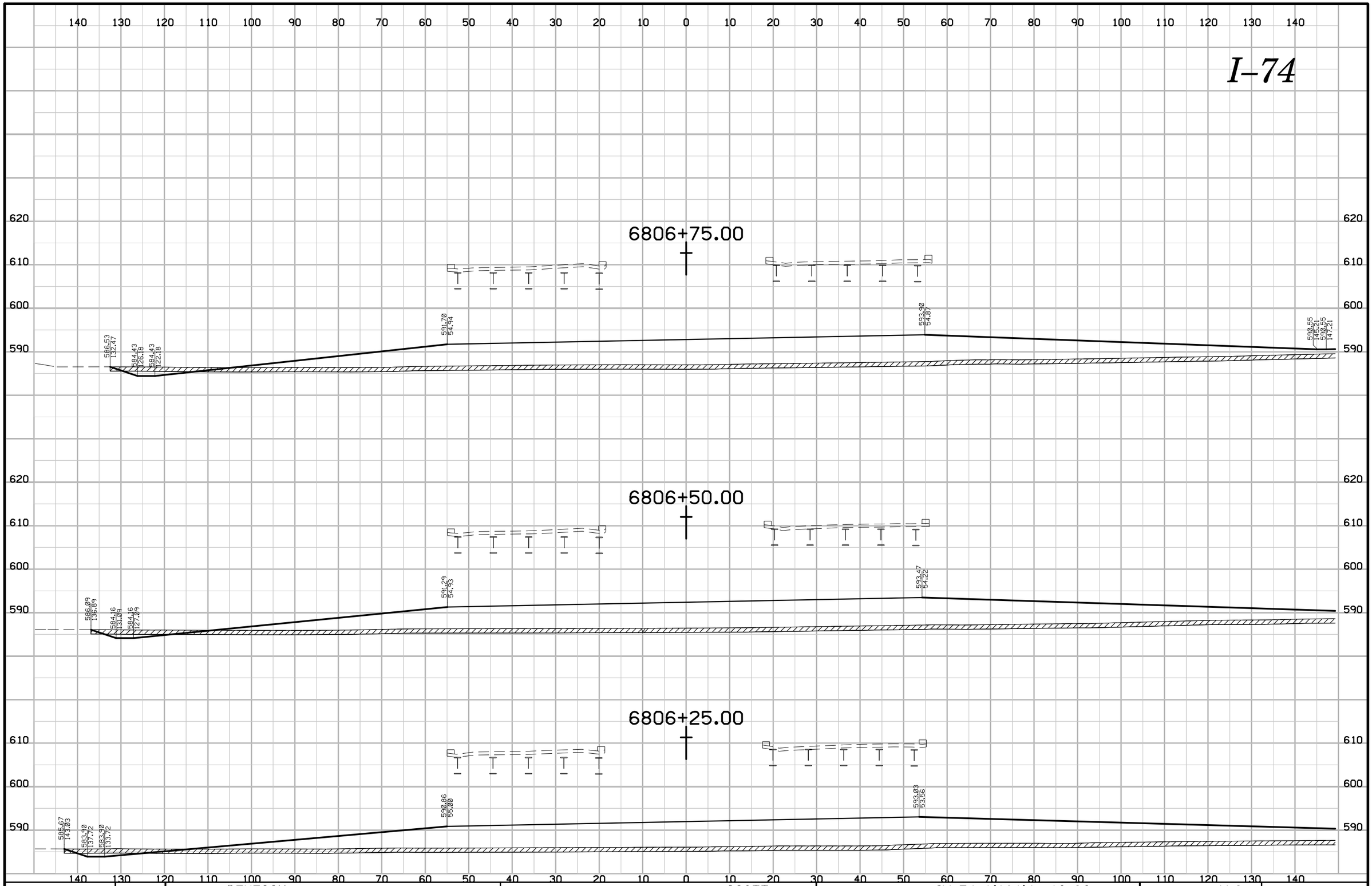
I–74



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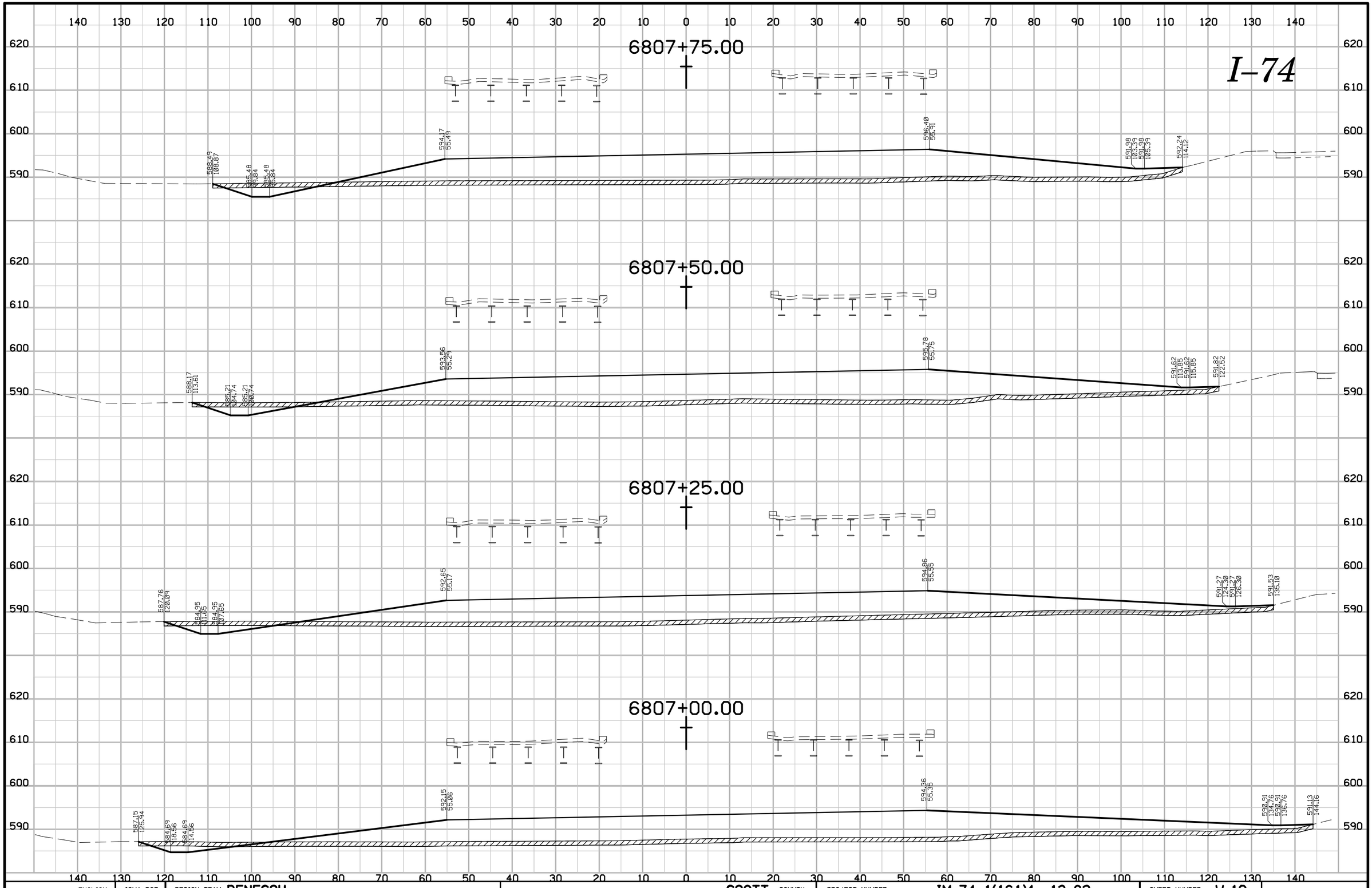

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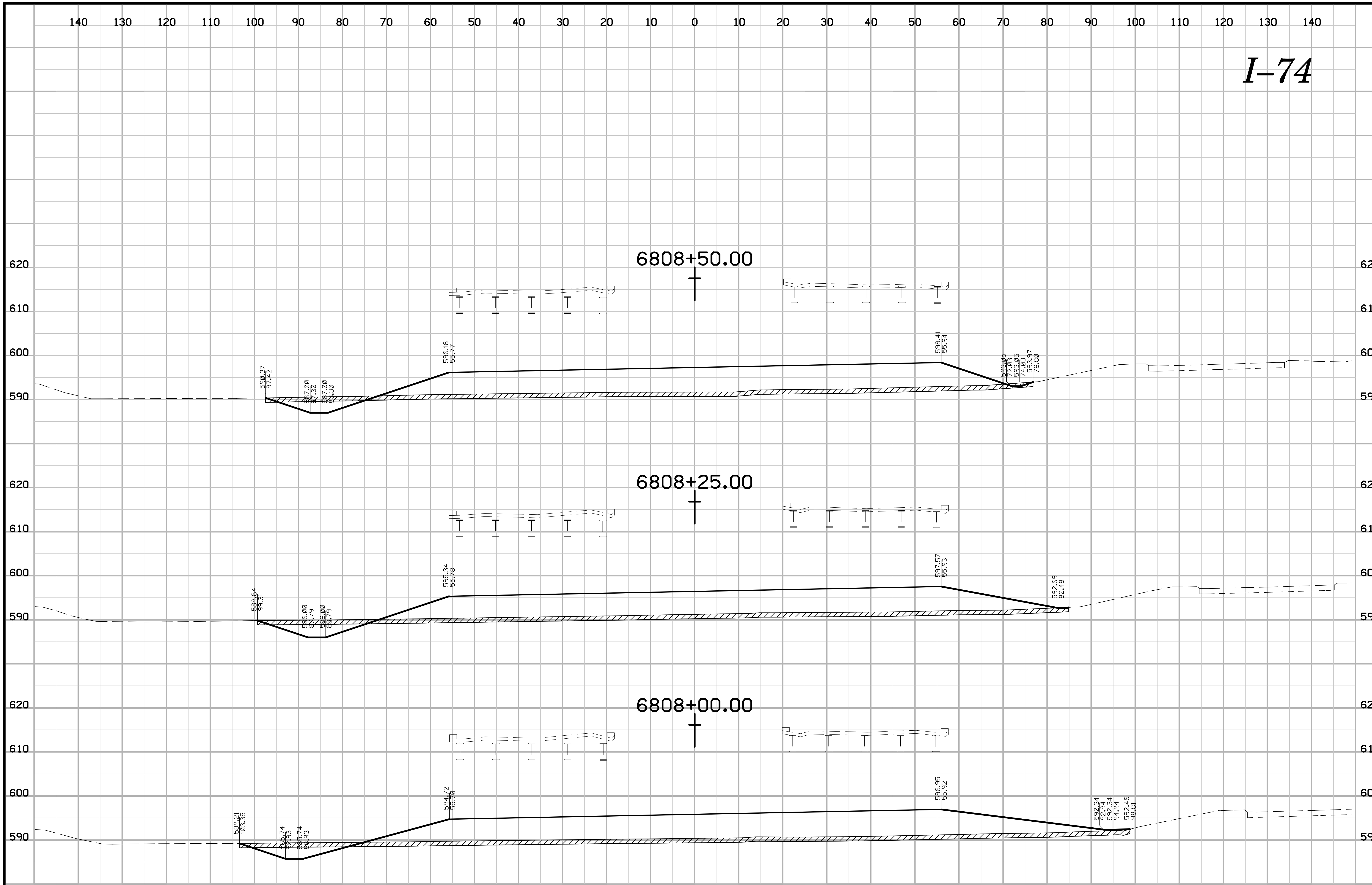

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I–74

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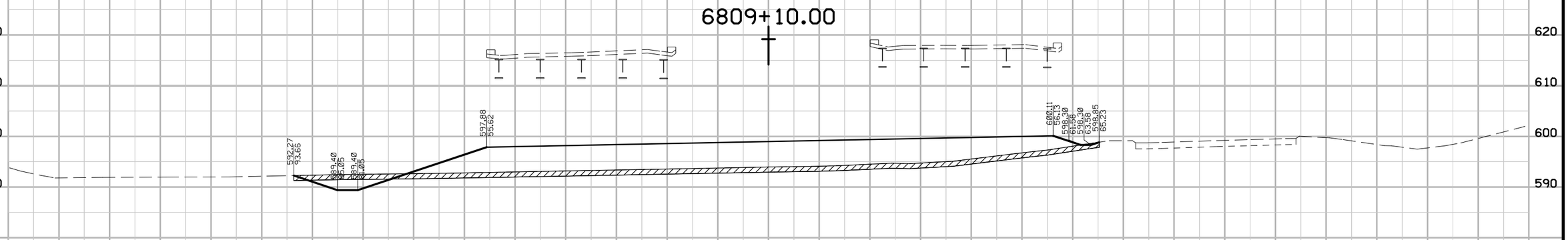
620 610 600 590

6809+10.00



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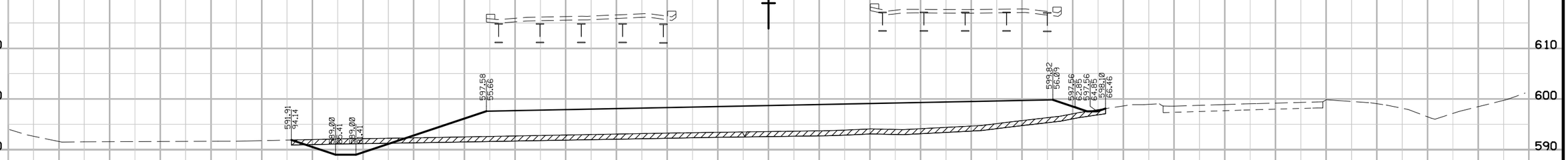

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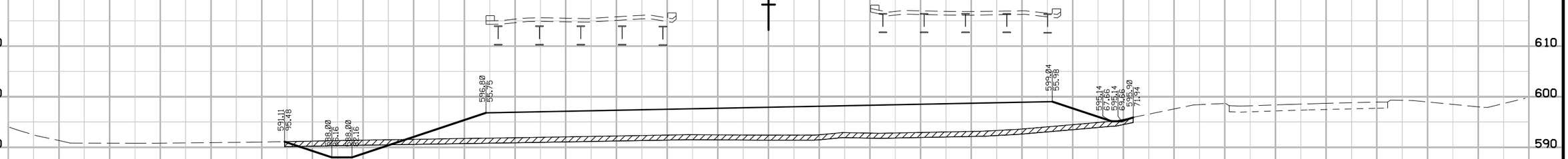

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I–74

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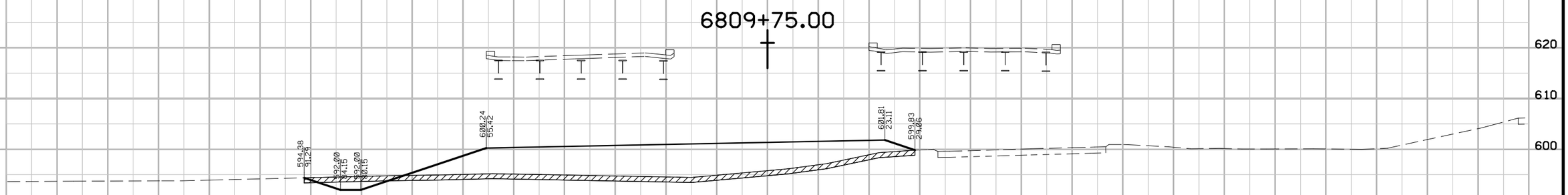
6809+75.00



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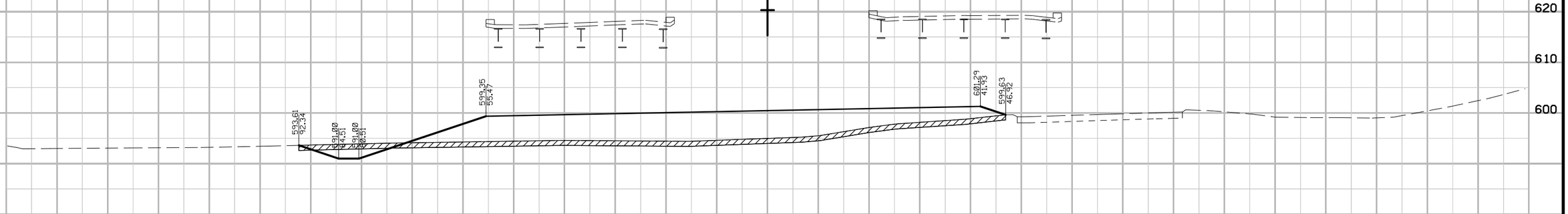

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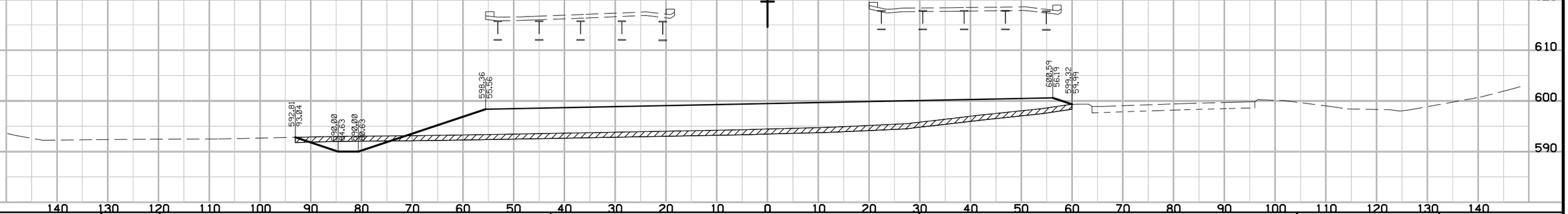

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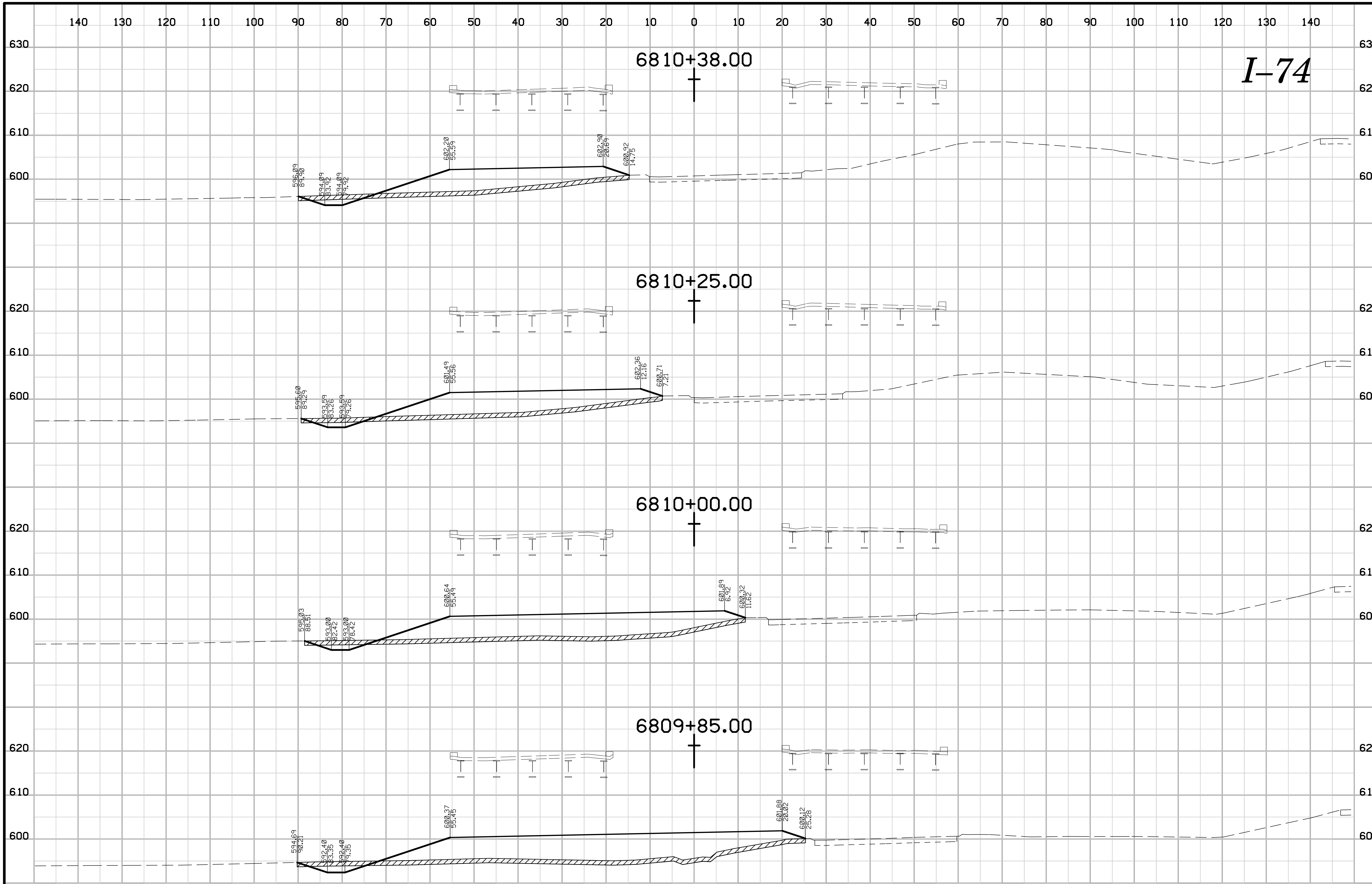

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I-74

6811+00.00

6810+75.00

6810+63.00

6810+50.00

595.69
87.38

595.18
82.86

595.18
76.86

602.92
55.63

603.47
26.46

601.12
21.40

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I–74

630
620
610

6811+75.00

630
620
610

630
620
610
600

6811+50.00

630
620
610
600

630
620
610
600

6811+25.00

630
620
610
600

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

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I–74

6812+50.00

630
620
610

6812+25.00

630
620
610

640
630
620
610

6812+00.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

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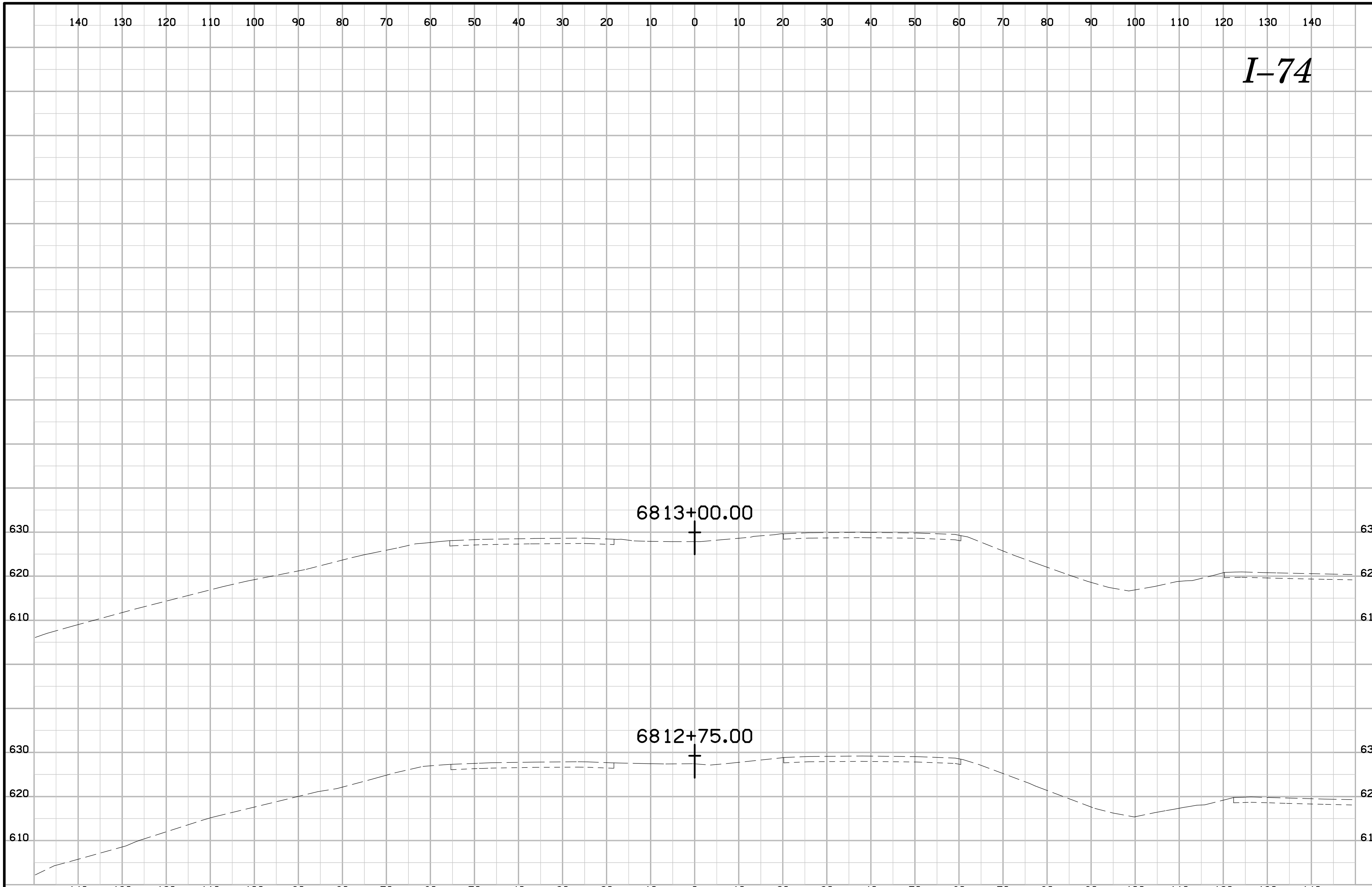

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