SCOTT Co. P.C.C. PAVEMENT-GRADE AND REPLACE IM-NHS-074-1(207)5--03-82

LETTING DATE 03/17/2020

INDEX OF SHEETS

105-3
10-18-05

* COLOR PLANS

IOWA DOT
Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

SCOTT COUNTY

P.C.C. PAVEMENT - GRADE AND REPLACE

14TH ST AND MISSISSIPPI BLVD 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.

MILEAGE SUMMARY

105-1
09-27-94

Div.	Location	Lin. Ft.	Miles
	14TH ST Sta. 14+40.00 to Sta. 26+25.00	1185.00	
	MISSISSIPPI BLVD Sta. 16+06.69 to Sta. 19+30.00	323.31	
	Total Length of Roadway (Division 1)	1508.31	0.285

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

REVISIONS

TOTAL 121
PROJECT IDENTIFICATION NUMBER
03-82-074-010-03
PROJECT NUMBER
IM-NHS-074-1(207)5--03-82
R.O.W. PROJECT NUMBER
IM-074-1(144)5--13-82

LICENSED PROFESSIONAL ENGINEER
CHASE A. HOLIEN
21998
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

Chase A. Holien
Printed or Typed Name

My license renewal date is December 31, 17

Pages or sheets covered by this seal: B.1, C.1-C.16, CS.1-CS.2, D.1-D.3, E.1-E.2 G.2-G.9, G.18, G.23-G.25, J.1-J.8, L.1-L.6, M.1-M.11 S.1-S.3, T.1, U.1-U.5, U.10, W.1-W.16, X.1-X.4

04-30-02 101-5

DESIGN DATA URBAN

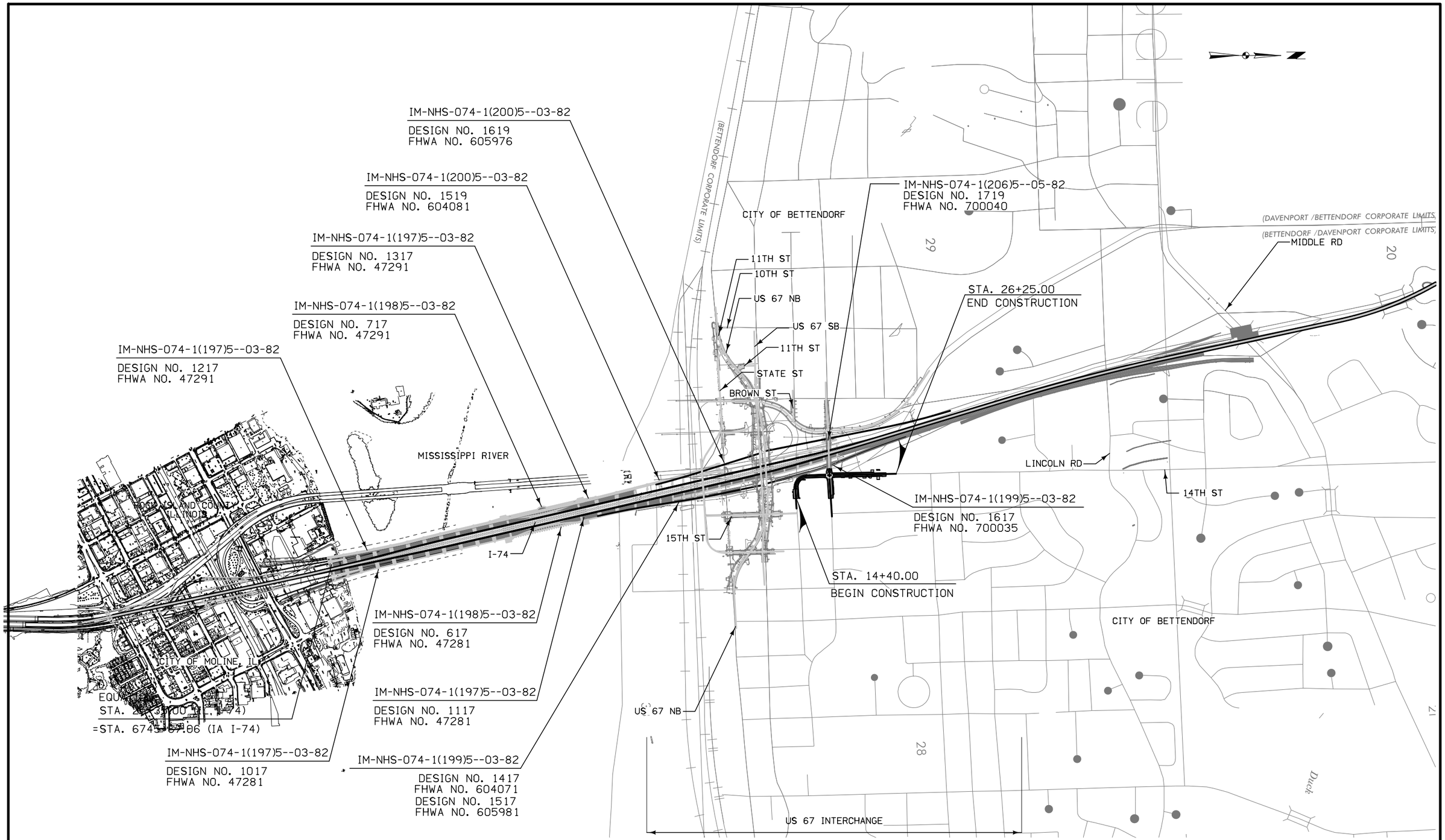
2015 AADT	--	V.P.D.
2035 AADT	9000	V.P.D.
2035 DHV	--	V.P.H.
TRUCKS	--	%
Total Design ESALs	--	

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	Chase A. Holien	Primary Signature Block
G.1	Coventine Fidis	Reference Ties/Benchmarks
G.10	Jeffrey J. Tardy	Alignments
Q.1	Kipkoech K. Chepkoit	Geotechnical Design
V.1	Robert Chantome	Retaining Wall Design

METHODS SUBMITTAL (NOT FOR BID)

Date: 12-03-2019

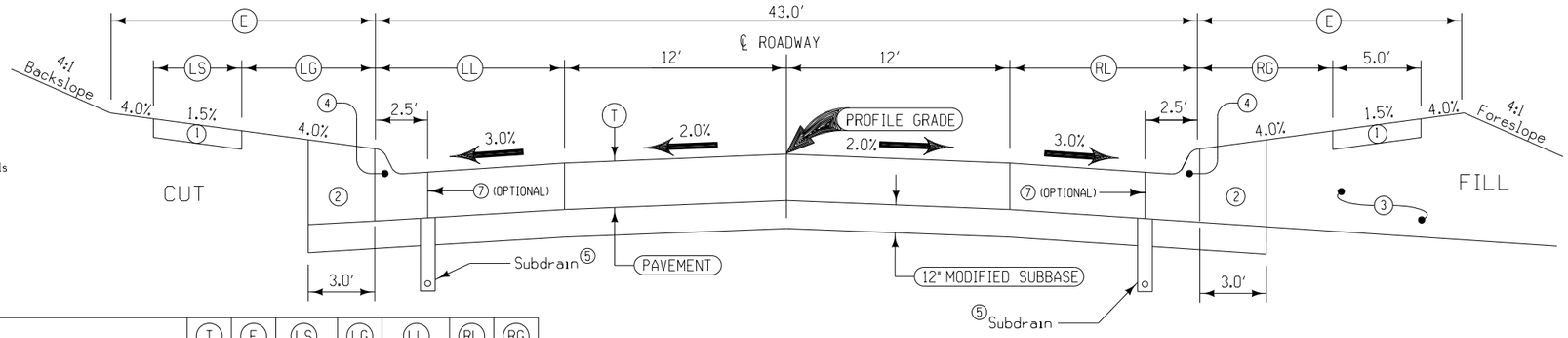


PROJECT LOCATION

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **A.2**

1:12:18 PM untitled c:\pwise_work\do_not_delete\dms04806\82074207-AB-A-01.sht.sht

3222B
MODIFIED



Notes:

Normal section shown may be appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves.

Refer to G sheets for superelevation details

Refer to other drawings for details of shoulder design and construction

LOCATION ⑥			T	E	LS	LG	LL	RL	RG
ROAD IDENTIFICATION	STATION TO STATION		Inches	Feet	Feet	Feet	Feet	Feet	Feet
MISSISSIPPI BLVD	16+88.68	19+30.00	8	13	5	6	9.5	9.5	0
14TH STREET	14+40.00	15+45.40	8	11	4.0-4.4	0	6.5-7.0	10	4

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: KT-2

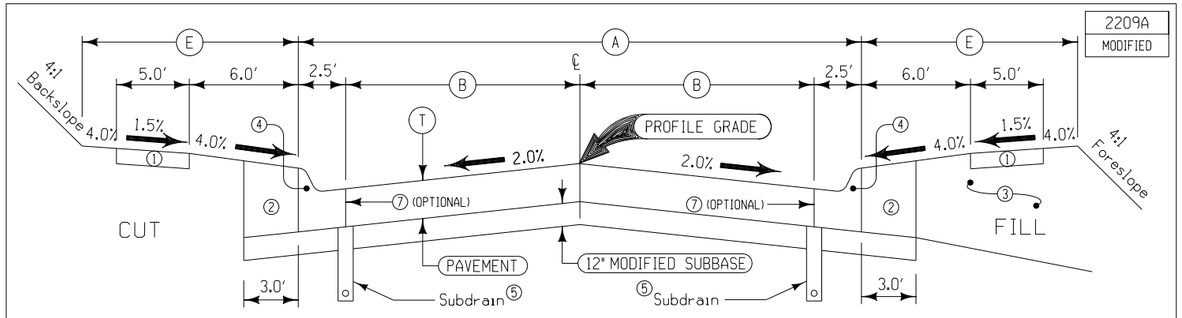
Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

① Refer to other drawings for details of shoulder and possible sidewalk construction
② Excavate and backfill 3.0'
③ Backfill
④ 6" Standard Curb (PV-102)
Left side of 14th St. - Construct 1 1/2" drop curb from Sta 14+40 to 15+40
⑤ Refer to Standard Road Plan DR-303
⑥ Refer to other drawings for limits of construction for this project.
⑦ "KT-2" or "L-2" Joint

TYPICAL CROSS SECTION 2 LANE 43' B-B WITH PARKING AND 2.5' CURB SECTION

2209A
MODIFIED



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: KT-2

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

Notes:

Normal section shown may be appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves.

Refer to G sheets for superelevation details

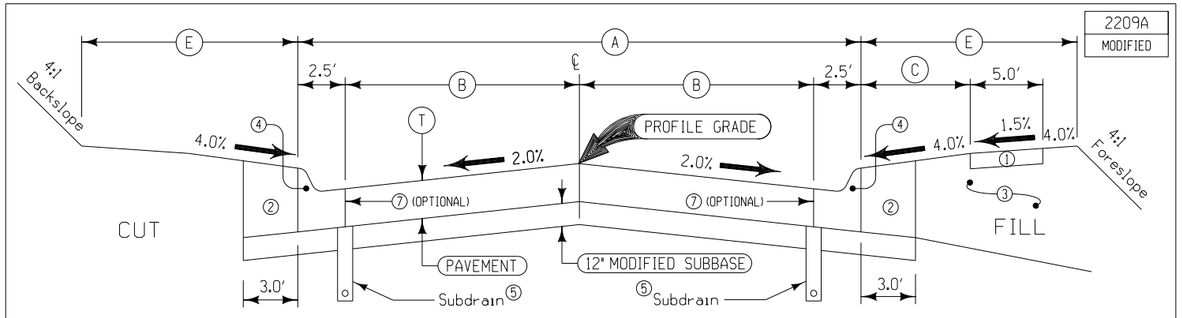
Refer to other drawings for details of shoulder design and construction

TYPICAL CROSS SECTION 2 LANE ROADWAY WITH 2.5' CURB SECTION

LOCATION ⑥			A	B	E	T
ROAD IDENTIFICATION	STATION TO STATION		Feet	Feet	Feet	Inches
14TH ST.	20+06.00	24+92.00	29	12	13	8
MISSISSIPPI BLVD	16+06.69	16+64.67	29	12	13	8

① Refer to other drawings for details of shoulder and possible sidewalk construction
② Excavate and backfill 3.0'
③ Backfill
④ 6" Standard Curb (PV-102)
⑤ Refer to Standard Road Plan DR-303
⑥ Refer to other drawings for limits of construction for this project.
⑦ "KT-2" or "L-2" Joint

2209A
MODIFIED



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: KT-2

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

Notes:

Normal section shown may be appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves.

Refer to G sheets for superelevation details

Refer to other drawings for details of shoulder design and construction

TYPICAL CROSS SECTION 2 LANE ROADWAY WITH 2.5' CURB SECTION

LOCATION ⑥			A	B	C	E	T
ROAD IDENTIFICATION	STATION TO STATION		Feet	Feet	Feet	Feet	Inches
14TH ST.	15+45.40	20+06.00	29	12	11.5-4.0	VARIES	8
14TH ST.	24+92.00	26+25.00	29	12	6.0	13	8

① Refer to other drawings for details of shoulder and possible sidewalk construction
② Excavate and backfill 3.0'
③ Backfill
④ 6" Standard Curb (PV-102)
Build 4" Sloped Curb from 16+74 to 18+83 on the left side of the road only (Standard 6" curb on right side) Transition from 16+69 to 16+74 and 18+83 to 18+88 per PV-102
⑤ Refer to Standard Road Plan DR-303
⑥ Refer to other drawings for limits of construction for this project.
⑦ "KT-2" or "L-2" Joint

PROJECT DESCRIPTION

This project is for the grading and paving of 14th Street and Mississippi Boulevard in Bettendorf in Scott County.
The project includes storm sewers and Retaining Wall 175.

This project is being constructed as part of the new I-74 Bridge over the Mississippi River and I-74 Corridor reconstruction.

ESTIMATED PROJECT QUANTITIES
(UP TO A 5 DIVISION PROJECT)

Division 1: 100% IOWA DOT COST
Division 2: 100% CITY OF BETTENDORF COST (NON-PARTICIPATING)
Division 3: 22% DOT AND 78% CITY OF BETTENDORF COST
Division 4: 100% IOWA DOT COST: DESIGN 1120

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	2102-0425071	SPECIAL BACKFILL	CY	148.3					148.3					
2	2102-2625000	EMBANKMENT-IN-PLACE	CY	100					100					
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	3213					3213					
4	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY	50					50					
5	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	2394.6					2394.6					
6	2107-0875100	COMPACTION WITH MOISTURE CONTROL	CY	1046					1046					
7	2109-8225100	SPECIAL COMPACTION OF SUBGRADE	STA	14.84					14.84					
8	2115-0100000	MODIFIED SUBBASE	CY	2108.9					2108.9					
9	2123-7450020	SHOULDER FINISHING, EARTH	STA	28.52					28.52					
10	2301-1033080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C,	SY	5351.3					5351.3					
		CLASS 3 DURABILITY, 8 IN.												
11	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1					1					
12	2303-0122500	HOT MIX ASPHALT MIXTURE (300,000 ESAL), INTERMEDIATE OR SURFACE COURSE,	SY	470.6					470.6					
		1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENTS												
13	2303-1141500	HOT MIX ASPHALT HIGH TRAFFIC, BASE COURSE, 1/2 IN. MIX	SY	470.6					470.6					
14	2303-9093010	HOT MIX ASPHALT, DRIVEWAY	SY	81.4					81.4					
15	2304-0100000	DETOUR PAVEMENT	SY	44					44					
16	2401-6750001	REMOVALS, AS PER PLAN	LS				1		1					
17	2402-2720000	EXCAVATION, CLASS 20	CY				874		874					
18	2403-0100000	STRUCTURAL CONCRETE (MISCELLANEOUS)	CY				195.7		195.7					
19	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB				12870		12870					
20	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.	EACH		5				5					
21	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH		2				2					
22	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.	EACH		1	1			2					
23	2435-0140196	MANHOLE, STORM SEWER, SW-401, 96 IN.	EACH			2			2					
24	2435-0250100	INTAKE, SW-501	EACH		1				1					
25	2435-0250248	INTAKE, SW-502, 48 IN.	EACH	1	1				2					
26	2435-0250700	INTAKE, SW-507	EACH	3	2				5					
27	2435-0250800	INTAKE, SW-508	EACH		2				2					
28	2435-0251100	INTAKE, SW-511	EACH	1					1					
29	2435-0254100	INTAKE, SW-541	EACH		1				1					
30	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH	2					2					
31	2435-0700010	CONNECTION TO EXISTING MANHOLE	EACH	1	3	1			5					
32	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	3617					3617					
33	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	27					27					
34	2503-0114212	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	23					23					
		2000D (CLASS III), 12 IN.												
35	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	41	632				673					
		2000D (CLASS III), 15 IN.												
36	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	45	139				184					
		2000D (CLASS III), 18 IN.												
37	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	82	63	87			232					
		2000D (CLASS III), 24 IN.												
38	2503-0114254	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF			201			201					
		2000D (CLASS III), 54 IN.												
39	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	767					767					
40	2503-0200136	REMOVE STORM SEWER PIPE GREATER THAN 36 IN.	LF	192					192					
41	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA.	LF	44					44					
42	2504-0116006	SANITARY SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 6 IN.	LF		41				41					
43	2504-0116008	SANITARY SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.	LF		1036				1036					
44	2504-0116010	SANITARY SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 10 IN.	LF		286				286					
45	2504-0200206	SANITARY SEWER SERVICE STUB, DUCTILE IRON, 6 IN.	LF		214				214					
46	2504-0240036	REMOVE SANITARY SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF		1438				1438					
47	2504-0240236	SANITARY SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA.	LF		448				448					
48	2506-4984000	FLOWABLE MORTAR	CY	11					11					
49	2510-6745850	REMOVAL OF PAVEMENT	SY	6834					6834					
50	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	15	6				21					
51	2511-6745900	REMOVAL OF SIDEWALK	SY	459.4					459.4					
52	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	993.9					993.9					
53	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	230.3					230.3					
54	2511-7528101	DETECTABLE WARNINGS	SF	60					60					
55	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.	SY	713.4					713.4					
56	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	1067.9					1067.9					
57	2518-6910000	SAFETY CLOSURE	EACH	10					10					
58	2519-1001000	FENCE, CHAIN LINK, VINYL COATED	LF				261		261					
59	2519-3300700	FENCE, TEMPORARY	LF	386					386					
60	2520-3350015	FIELD OFFICE	EACH	1					1					
61	2526-8285000	CONSTRUCTION SURVEY	LS	1					1					
62	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	32.12					32.12					
63	2527-9263180	PAVEMENT MARKINGS REMOVED	STA	5.33					5.33					
64	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF	1100					1100					
65	2528-8445110	TRAFFIC CONTROL	LS	1					1					
66	2528-8445113	FLAGGERS	EACH	See Proposal					See Proposal					
67	2533-4980005	MOBILIZATION	LS	1					1					
68	2537-8900000	REMEDIATION OF PETROLEUM CONTAMINATED SOIL	CY	100					100					
69	2537-8900100	SAMPLE+TEST-PETRO CONTAM (REMEDIATION)	EACH	3					3					
70	2552-0000140	ROCK EXCAVATION	CY	60	481	255.7			796.7					
71	2601-2634105	MULCHING, BONDED FIBER MATRIX	ACRE	1.5					1.5					
72	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	1.5					1.5					
73	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	1.5					1.5					

ESTIMATED PROJECT QUANTITIES
(UP TO A 5 DIVISION PROJECT)

Division 1: 100% IOWA DOT COST
Division 2: 100% CITY OF BETTENDORF COST (NON-PARTICIPATING)
Division 3: 22% DOT AND 78% CITY OF BETTENDORF COST
Division 4: 100% IOWA DOT COST: DESIGN 1120

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
74	2602-0000020	SILT FENCE	LF	1875					1875					
75	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	188					188					
76	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	1875					1875					
77	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	300					300					
78	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	262					262					
79	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	435					435					
80	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	697					697					
81	2602-0000400	TEMPORARY INTAKE OR MANHOLE COVER ASSEMBLY	EACH	18					18					
82	2602-0000410	MAINTENANCE OF TEMPORARY INTAKE OR MANHOLE COVER ASSEMBLY	EACH	18					18					
83	2602-0000420	REMOVAL OF TEMPORARY INTAKE OR MANHOLE COVER ASSEMBLY	EACH	18					18					
84	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	LF	40					40					
85	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	8					8					
86	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	8					8					
87	2602-0010010	MOBILIZATION, EROSION CONTROL	EACH	1					1					
88	2602-0010020	MOBILIZATION, EMERGENCY EROSION CONTROL	EACH	1					1					

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	2102-0425071	SPECIAL BACKFILL
		Item is for placing under new pavement behind Retaining Wall. See Sheet U.5 for additional information.
------	----------	----------
2	2102-2625000	EMBANKMENT-IN-PLACE
		Nominal Quantity provided to replace additional potentially contaminated soil at sites as
		described in the Estimate Reference information for:
		2537-8900000 REMEDIATION OF PETRO CONTAMINATED SOIL
------	----------	----------
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW
		Class 10 Bid quantity of 3,213 CY includes:
		1,046 CY Fill
		2,167 CY Suitable Excavation
		Overhaul will not be measured or paid for, but shall be considered incidental to roadway excavation.
		Contractor is to stockpile excess cut to be used as I-74 mainline fill.
------	----------	----------
4	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 CS Sheets.
		Overhaul will not be measured or paid for, but shall
		be considered incidental to roadway excavation.
		Blasting is Not allowed.
------	----------	----------
5	2105-8425005	TOPSOIL, FURNISH AND SPREAD
		See Tab 103-10 on CS Sheets for locations and details.
------	----------	----------
6	2107-0875100	COMPACTION WITH MOISTURE CONTROL
		See Tab 103-6 on CS Sheets
		Cubic Yards shown on the contract documents as determined by the template volume
		See T-sheets for template quantities of Total Fill
		Compaction with moisture control is not required for class 12 excavation used as fill
------	----------	----------
7	2109-8225100	SPECIAL COMPACTION OF SUBGRADE
		See the Q Sheets for locations and details
------	----------	----------
8	2115-0100000	MODIFIED SUBBASE
		Refer to Typicals on the B Sheets. See Tab 100-24 on the C Sheets for locations and details.
------	----------	----------
9	2123-7450020	SHOULDER FINISHING, EARTH
		The shoulder material is included in the Class 10 excavation bid item. No separate measurement or payment will
		be made for excavation or overhaul. Refer to Typicals on B Sheets.
------	----------	----------
10	2301-1033080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C,
		CLASS 3 DURABILITY, 8 IN.
		Refer to Typicals on B Sheets and Tab. 100-24 on C Sheets for locations and details.
		Water valve adjustments as shown on Tab. 104-10 on C Sheets shall be included in the bid price.
------	----------	----------
11	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES
		Refer to Tab 100-24 on the C Sheets
------	----------	----------
12	2303-1133500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT
		Item is for new pavement behind Retaining Wall. See Sheet U.5 for additional information.
		Item is for 2" Surface Course. Binder is to be 58-28S.
------	----------	----------
13	2303-1141500	HOT MIX ASPHALT HIGH TRAFFIC, BASE COURSE, 1/2 IN. MIX
		Item is for new pavement behind Retaining Wall. See Sheet U.5 for additional information.
		Item is for 2-2" Base Courses. Measured area will only be paid for once. Binder is to be 58-28S.

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
------	----------	----------
14	2303-9093010	HOT MIX ASPHALT, DRIVEWAY
		Item is for replacing existing HMA at 2 driveways. Refer to Tab 102-3 for locations.
		HMA shall be 1/2 inch Standard Traffic Mix. Thickness shall be 6 inches.
		The unit price for this item includes all materials and preparation of base.
		The engineering will measure the area of HMA driveway constructed.
		For each square yard of HMA Driveway constructed, the contractor will be paid the contract unit price.
------	----------	----------
15	2304-0100000	DETOUR PAVEMENT
		Item is for staging purposes for pavement that will be removed by the contractor.
		See J Sheets for locations. See Tab 100-24 on C Sheets for Tabulations.
		Detour pavement is to be 10.5" HMA or 8.5" PCC at the option of the Contractor. Modified Subbase under the
		pavement is to be 6 inches in thickness.
		Additional excavation is incidental if the HMA option is chosen.
------	----------	----------
16	2401-6750001	REMOVALS, AS PER PLAN
		See V sheets for details
------	----------	----------
17	2402-2720000	EXCAVATION, CLASS 20
		For Retaining wall 175. Refer to V Sheets
------	----------	----------
18	2403-0100000	STRUCTURAL CONCRETE (MISCELLANEOUS)
		For Retaining wall 175. Refer to V Sheets
------	----------	----------
19	2404-7775005	REINFORCING STEEL, EPOXY COATED
		For Retaining wall 175. Refer to V Sheets
------	----------	----------
20	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.
21	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.
22	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.
23	2435-0140196	MANHOLE, STORM SEWER, SW-401, 96 IN.
24	2435-0250100	INTAKE, SW-501
25	2435-0250248	INTAKE, SW-502, 48 IN.
26	2435-0250700	INTAKE, SW-507
27	2435-0250800	INTAKE, SW-508
28	2435-0251100	INTAKE, SW-511
29	2435-0254100	INTAKE, SW-541
		See Tab. 104-5B on the M Sheets for locations and details.
		For any connections to existing pipes, the existing flowlines shall be
		field verified by the contractor prior to ordering the structures
------	----------	----------
30	2435-0600010	MANHOLE ADJUSTMENT, MINOR
		See Tab. 104-10 on C Sheets for locations and details.
------	----------	----------
31	2435-0700010	CONNECTION TO EXISTING MANHOLE
		Refer to the M Sheets for locations and details. Item is for connecting proposed storm sewer and
		sanitary sewer pipes to existing manholes.
------	----------	----------
32	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.
33	2502-8221303	SUBDRAIN OUTLET, DR-303
		See Tab 104-9 on CS Sheets for locations and details.
------	----------	----------
34	2503-0114212	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),
		2000D (CLASS III), 12 IN.
35	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),
		2000D (CLASS III), 15 IN.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
36	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),
		2000D (CLASS III), 18 IN.
37	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),
		2000D (CLASS III), 24 IN.
38	2503-0114254	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),
		2000D (CLASS III), 54 IN.
		Refer to Tab. 104-5B on M sheets for locations and details.
39	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.
40	2503-0200136	REMOVE STORM SEWER PIPE GREATER THAN 36 IN.
41	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA.
		See Tab 110-14 on the C Sheets
42	2504-0116008	SANITARY SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.
43	2504-0116010	SANITARY SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 10 IN.
44	2504-0116010	SANITARY SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 10 IN.
		See Tab 104-5B on the M Sheets for locations and details.
45	2504-0200206	SANITARY SEWER SERVICE STUB, DUCTILE IRON, 6 IN.
		Refer to Tab. WHKS-1 on C Sheet for locations and details. Temporary connections will be required due to
		project staging. Temporary connections shall be considered incidental.
46	2504-0240036	REMOVE SANITARY SEWER PIPE LESS THAN OR EQUAL TO 36 IN.
47	2504-0240236	SANITARY SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA.
		See Tab 110-14 on the C Sheets
48	2506-4984000	FLOWABLE MORTAR
		Item is for anti-seep collars around storm sewer pipes. Refer to M sheets.
49	2510-6745850	REMOVAL OF PAVEMENT
		See Tab. 110-1 on C Sheets and U Sheets for locations and details.
		See B Sheets and Tab. 102-5 on the C Sheets for available existing pavement information.
50	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES
		For bedding and backfill purposes under Primary Roads, use crushed rock or gravel material complying with
		Article 4120.04 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). Gravels must be 100% crushed
		produced by crushing material retained on a 1.5 inch or larger screen. See Tab 110-15 on C Sheets.
51	2511-6745900	REMOVAL OF SIDEWALK
		See Tab 110-5 on C Sheets for locations and details.
52	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.
53	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.
54	2511-7528100	DETECTABLE WARNINGS
		See Tab 113-1 on C Sheets for locations and details.
55	2515-2475006	DRIVEWAY, P.C. CONCRETE, 6 IN.
		See Tab 102-3 on C Sheets for locations and details.
56	2515-6745600	REMOVAL OF PAVED DRIVEWAY
		See Tab 110-8 on C Sheets for locations and details.
57	2518-6910000	SAFETY CLOSURE
		See Tab 108-13A on C Sheets for locations and details.
58	2519-1001000	FENCE, CHAIN LINK, VINYL COATED
		For Retaining wall 175. Refer to V Sheets
59	2519-3300700	FENCE, TEMPORARY
		Item is for constructing fence at Our Lady of Lourdes parking lot. Refer to U Sheets.
		Provide temporary fence as necessary to secure site. Temporary fence shall be installed at the Temporary
		Easement line.
		Temporary Fence shall be constructed as shown on the U Sheets.
		Method of Measurement: Measurement for Fence, Temporary will be in linear feet.
		Basis of Payment: Payment for Fence, Temporary will be at the contract unit price per linear foot.
		Payment is full compensation for:
		• Furnishing and placing concrete bases and steel posts
		• Furnishing and placing orange plastic fence fabric and ties
		• Furnishing and placing wooden 2x4 top and bottom rails
		• Maintenance of fence
		• Removal of fence
		• Site clean up after work is complete
60	2520-3350015	FIELD OFFICE
61	2526-8285000	CONSTRUCTION SURVEY
62	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED
		See Tab 108-22 on C Sheets for locations and details.
		See U Sheets for locations and details.

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
63	2527-9263180	PAVEMENT MARKINGS REMOVED
		See Tab 108-22 on C Sheets for locations and details.
		All pavement marking removals on final pavement and bridge surfaces shall be
		by high-pressure water blasting. Vacuum blasting, vacuum dry grinding,
		wet grinding, and shot blasting will not be allowed on final surfaces.
64	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE
		See Tab. 108-33 on C Sheets for locations and details.
65	2528-8445110	TRAFFIC CONTROL
		See Traffic Control Plan on J Sheets for locations and details.
66	2528-8445113	FLAGGERS
67	2533-4980005	MOBILIZATION
68	2537-8900000	REMEDIATION OF PETRO CONTAMINATED SOIL
		See the U Sheets for potentially contaminated sites.
		All petroleum contaminated soil shall be disposed at a permitted sanitary landfill.
		Copies of the landfill receipts shall be submitted to the Engineer
		If testing indicates no contamination present, excavated volumes will not be paid for as
		item 2537-8900000.
		Quantity estimate of 100 CY is a nominal quantity for excavation at the location described below.
		Parcel 355
		Parcel 386
69	2537-8900100	SAMPLE+TEST-PETRO CONTAM (REMEDIATION)
		A. See the U Sheets for potentially contaminated sites.
		B. The Contractor shall have an Iowa Groundwater Professional, certified in accordance with 567
		IAC Chapter 134, on site during excavation activities on parcels 355 and 386. 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 properties shown on sheets U.7 to U.9.
		Parcel 355: 2 Samples
		Parcel 386: 1 Samples
		TOTAL=3 Samples

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
70	2552-0000140	ROCK EXCAVATION
		Item is for estimated rock excavation encountered while excavating for Storm Sewer and Sanitary Sewer.
		See M Sheet profiles for approximate rock locations.
		Blasting is not allowed.
		Refer to U sheet "Rock Excavation Trench for Sewers" for the maximum allowable payment area.
		Quantities are estimated as follows based on approximate rock layer:
		Division 1:
		Structure 443 = 4.33 CY
		Structure 445 = 0.74 CY
		Structure 446 = 2.22 CY
		Structure 768 = 1.30 CY
		P443 = 21.49 CY
		P444 = 1.85 CY
		P445 = 2.96 CY
		P446 = 5.11 CY
		Total = 40.00 CY + 50% Contingency = 60.00 CY
		Division 2:
		Structure 205 = 2.67 CY
		Structure 207 = 6.00 CY
		Structure 206 = 5.33 CY
		Structure 203 = 3.33 CY
		Structure 442 = 0.67 CY
		P204 = 2.45 CY
		P208 = 61.00 CY
		P207 = 64.27 CY
		P206 = 5.92 CY
		P205 = 93.57 CY
		P203 = 53.99 CY
		P202 = 13.43 CY
		P442 = 4.67 CY
		P447 = 3.04 CY
		Total = 320.34 CY + 50% Contingency = 480.51 CY
		Division 3:
		Structure 463 = 9.26 CY
		Structure 745 = 3.70 CY
		Structure 909 = 5.44 CY
		Structure 745 = 24.07 CY
		P745 = 86.71 CY
		P909 = 41.30 CY
		Total = 170.49 CY + 50% Contingency = 255.72 CY
-----	----------	----------
71	2601-2634105	MULCHING, BONDED FIBER MATRIX
		A Bonded Fiber Matrix shall be applied as the mulch for all areas designated as Seeding and Fertilizing (Urban).
		The seed and fertilizer for the area to be covered shall be applied before the Bonded Fiber Matrix Hydraulic
		Mulch application. Application rate shall be a minimum of 3000 lbs per acre.
-----	----------	----------
72	2601-2636044	SEEDING AND FERTILIZING (URBAN)
		Included for all urban disturbed areas following the final construction as designated by the engineer.
-----	----------	----------
73	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)
		Item is included for temporary seeding during construction activities.
-----	----------	----------
74	2602-0000020	SILT FENCE
		Refer to Tab. 100-17 on C Sheets for locations and details. The tabulation includes estimated locations for
		placement of Silt Fence to address possible erosion during construction. Verify the specific locations with
		the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments
		and replacements.
-----	----------	----------
75	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS
		This item is included for silt fence removal required for staging reasons, for replacement (replacement
		to be paid separately), or for areas that have achieved 70% permanent growth.
-----	----------	----------
76	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS
		This item is included for cleanout and repair of the silt fence during the project.
-----	----------	----------
77	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303
		Refer to EC-303 for details. 50 LF is included for entering and exiting the construction area in each stage.
-----	----------	----------
78	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.
		To be placed around intakes and manholes after the tops or lids are installed.
		See Tab 100-19 on C Sheets for locations and details.
-----	----------	----------
79	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.
		See Tab. 100-19 on C Sheets for locations and details.
		Item is for Design Detail 570-5 Installations. Refer to U Sheets for additional information.
-----	----------	----------
80	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE
		This item is included for Perimeter and Slope Sediment Control Device removal required for staging reasons
		or for areas that have achieved 70% permanent growth.
-----	----------	----------

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
81	2602-0000400	TEMPORARY INTAKE OR MANHOLE COVER ASSEMBLY
		See Tab. 100-11 on C Sheets for locations.
		See Design Detail 570-5 on U Sheets for additional information.
		Method of Measurement for Temporary Intake or Manhole Cover Assembly will be by Count.
		Basis of Payment for Temporary Intake or Manhole Cover Assembly will be at the contract unit price for each
		device installed.
-----	----------	----------
82	2602-0000410	MAINTENANCE OF TEMPORARY INTAKE OR MANHOLE COVER ASSEMBLY
		See Tab. 100-11 on C Sheets for locations.
		See Design Detail 570-5 on U Sheets for additional information.
		Method of Measurement for Maintenance of Temporary Intake or Manhole Cover Assembly will be by Count.
		Basis of Payment for Maintenance of Temporary Intake or Manhole Cover Assembly will be at the contract unit
		price for each occurance. Payment is full compensation for inspecting fabric sock and replacing when flow
		capacity has been reduced to 50%.
-----	----------	----------
83	2602-0000420	REMOVAL OF TEMPORARY INTAKE OR MANHOLE COVER ASSEMBLY
		See Tab. 100-11 on C Sheets for locations.
		See Design Detail 570-5 on U Sheets for additional information.
		Method of Measurement for Removal of Temporary Intake or Manhole Cover Assembly will be by Count.
		Basis of Payment for Removal of Temporary Intake or Manhole Cover Assembly will be at the contract unit price
		for each device removed.
-----	----------	----------
84	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602
85	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER
86	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER
		These items are for installing, maintaining and removing sediment filters in intakes with tops installed.
		See Tab. 100-36 for locations and additional information.
-----	----------	----------
87	2602-0010010	MOBILIZATION, EROSION CONTROL
		Count will be on a per contract basis
-----	----------	----------
88	2602-0010020	MOBILIZATION, EMERGENCY EROSION CONTROL
		Count will be on a per contract basis

STANDARD ROAD PLANS

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

Number	Date	Title
DR-121	10-17-17	Connected Pipe Joints
DR-213	10-17-17	Pipe Apron Guard
DR-303	10-17-17	Subdrains (Longitudinal)
EC-201	10-15-19	Silt Fence
EC-204	04-18-17	Perimeter and Slope Sediment Control Devices
EW-101	10-17-17	Embankment and Rebuilding Embankments
EC-303	10-16-18	Stablized Construction Entrance
EC-602	10-16-18	Open-Throat Curb Intake Sediment Filter
MI-210	10-20-15	PCC Driveways and Alleys
MI-220	10-20-15	Detectable Warnings and Pedestrian Ramp
PM-110	10-16-18	Line Types
PM-111	04-21-15	Symbols and Legends
PM-620	10-15-19	Two-Lane Roadway with no Turn Lanes (Four-Way Stop Condition)
PV-101	04-16-19	Joints
PV-102	10-18-16	PCC Curb Details
PV-103	04-19-11	Manhole Boxouts in PCC Pavement
SI-101	04-19-16	Locations - Type 'A' Signs
SI-121	10-16-18	Fabrication - Sign Legend Components
SI-182	04-19-16	Permanent Road Closure - Urban
SI-881	04-16-19	Special Signs for Workzones
SI-882	10-18-16	Special Signs for Restricted Width Traffic Control Zones
SW-101	04-17-18	Trench Bedding and Backfill Zones
SW-102	04-16-19	Rigid Gravity Pipe Trench Bedding
SW-401	04-17-18	Circular Storm Sewer Manhole
SW-507	04-17-18	Single Open-Throat Intake, Small Box
SW-508	04-17-18	Single Open-Throat Intake, Large Box
SW-511	04-17-18	Rectangular Area Intake
SW-602	04-21-15	Castings for Storm Sewer Manholes
SW-603	10-16-18	Castings for Grate Intakes
SW-604	04-17-18	Castings for Area Intakes
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-81	10-15-19	Restricted Width Signing (Less Than 14.5 Feet)
TC-202	04-21-15	Work Within 15 ft of Traveled Way
TC-213	10-15-19	Lane Closure with Flaggers
TC-251	10-15-19	Temporary Road Closure
TC-252	04-19-16	Routes Closed to Traffic
TC-601	10-15-19	Pedestrian Detour

INDEX OF TABULATIONS

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base 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. Affected contractors/subcontractors are anyone responsible for sediment or erosion controls or involved in land disturbing activities. 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 an Erosion Control Implementation Plan (ECIP) according to Specifications Section 2602 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. Comply with training and certification requirements of Specifications Section 2602.
  7. 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 record 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 a I-74 mainline, ramps, and local roads.
- B. This PPP covers approximately 76 acres with an estimated 70 acres being disturbed. The portion of the PPP covered by this contract has 2 acres disturbed.
- C. The PPP is located in an area of Fayette soil association.
  The estimated weighted average runoff coefficient number for this PPP after completion will be 0.43
- 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) – Project Location Map and 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 (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.
- F. Runoff from this work will flow into Mississippi River.

III. CONTROLS
- A. The contractor's ECIP 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. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations 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 or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
        2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
           a) Permanently ceased on any portion of the site, or
           b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
        3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
        4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located on the C sheets of the plan.

110-12A
10-17-17

POLLUTION PREVENTION PLAN

Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation.
        5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
        6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located on the C sheets of the plan. Additional information may be found in Tabulations in the C or T sheets of the plans or is referenced in Standard Specifications Section 2105.
     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. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
        2) Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) 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 plans 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. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) 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 practices to be used on this project are referenced in the Standard Road Plans Tabulation. 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. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
        7) Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
        8) Vehicle and Equipment Storage and Maintenance Areas - 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. Employ washing practices that prevent contamination of surface and ground water from wash water.
        9) Litter Management - Ensure employees properly dispose of litter.
        10) Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.
     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. 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.
  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 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. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

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.

POLLUTION PREVENTION PLAN

B. Amended PPP - May include Plan Revisions or Contract Modifications for new items, storm water monitoring inspection reports, and fieldbook entries made by the inspector.
C. IDR - Inspector’s Daily Report – this contains the inspector’s daily diary and bid 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. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative from Designer, Contractor/Subcontractor, or RCE/Inspector authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____
Signature

_____
Printed or Typed Name

_____
Signature

_____
Printed or Typed Name

232-10
04-18-17

EMERALD ASH BORER

Any living, dead, cut or fallen material of the ash (Fraxinus spp.) including trees, nursery stock, logs, firewood, stumps, roots, branches, and composted or uncomposted ash chips can be freely moved within the yellow areas of the most recent Federal EAB Quarantine & Authorized Transit.

https://www.aphis.usda.gov/plant_health/plant_pest_info/emerald_ash_b/downloads/eab_quarantine_map.pdf.

Obtain appropriate Compliance Agreements from USDA APHIS PPQ prior to moving any of the above listed ash articles to areas outside the yellow zone on the map.

For questions, concerns, and general assistance, contact:

USDA APHIS PPQ, Iowa office, 515-414-3295

Or

Iowa Department of Agriculture & Land Stewardship
515-725-1470
Entomology@IowaAgriculture.gov

252-1
10-16-12

TEMPORARY CROSSINGS AND DETOURS

Blading, shaping, and other work in preparation for maintaining temporary crossings or detours is incidental to other work. Furnish and spread additional granular surfacing needed for temporary crossings or detours during construction at the contract price.

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
Modified

SECTION 404 PERMIT AND CONDITIONS

Construct this project according to the requirements of U.S. Army Corps of Engineers Individual Permit, Permit No. 2016-1217. A copy of this permit is available from the Iowa DOT website (http://www.envpermits.iowadot.gov/). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

Construct this project according to the requirements of U.S. Army Corps of Engineers Nationwide Permit, Permit No. 14. A copy of this permit is available from the Iowa DOT website (http://www.envpermits.iowadot.gov/). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

290-01
04-15-14

SIDEWALK CONSTRAINTS

1. Widths:
   Widths listed in the S sheets are minimums.

2. Cross Slopes:
   Construct all sidewalks, curb ramps, and landings/turning spaces at a target cross slope of 1.5%. Cross slopes exceeding 2.0% will not be allowed, except for areas tying into existing pavement. In these areas, transition from existing pavement cross slope to a cross slope of less than 2.0% within one panel at a rate not to exceed 1.0% per foot.

3. Longitudinal Slopes:
   a. Sidewalk:
      i. Roadway slope exceeds 5.0%: Sidewalk longitudinal slope exceeding the roadway slope by more than 2.0% will not be allowed.
      ii. Roadway slope 5.0% or less: Sidewalk longitudinal slope exceeding 5.0% will not be allowed.
   b. Ramps:
      i. Ramps 15.0’ in length or less: Longitudinal slope exceeding 8.3% will not be allowed.
      ii. Ramps greater than 15.0’ in length: Construct with the longitudinal slope necessary to conform to the design.

4. Landing/Turning Spaces:
   Longitudinal slopes exceeding 2.0% will not be allowed.

100-19
04-19-16

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Location			Length of Installation			Remarks	
Begin Station	End Station	Side	9 inch Dia	12 inch Dia	20 inch Dia		
			LF	LF	LF		
Mississippi	Blvd						
17+16.80		Lt		38.0		21.5 Lt - Curb Intake	Div. (1)
17+16.83		Rt			29.0	For Design Detail 570-5	Div. (1)
17+16.80		Rt		32.0		33.0 Rt - Utility Access	Div. (1)
17+75.00		Rt		32.0		25.1 Rt - Utility Access	Div. (1)
14th St.							
15+37.18		Lt			22.0	For Design Detail 570-5	Div. (1)
15+33.00		Rt		32.0		21.4 Rt - Curb Intake	Div. (1)
15+45.88		Rt			21.0	For Design Detail 570-5	Div. (1)
16+84.23		Rt			22.0	For Design Detail 570-5	Div. (1)
16+99.00		Rt			21.0	For Design Detail 570-5	Div. (1)
16+99.00		Rt		32.0		13.9 Rt - Curb Intake	Div. (1)
16+84.20		Rt		32.0		31.3 Rt - Curb Intake	Div. (1)
18+25.00		Lt			22.0	For Design Detail 570-5	Div. (1)
18+25.00		Lt			34.0	For Design Detail 570-5	Div. (1)
19+66.43		Lt			34.0	For Design Detail 570-5	Div. (1)
19+74.77		Rt			25.0	For Design Detail 570-5	Div. (1)
20+54.90		Lt		32.0		29.8 Lt - Utility Access	Div. (1)
20+55.00		Lt			25.0		
20+55.00		Lt			24.0	For Design Detail 570-5	Div. (1)
20+55.00		Rt			22.0	For Design Detail 570-5	Div. (1)
23+25.00		Lt			24.0	For Design Detail 570-5	Div. (1)
23+25.00		Rt			22.0	For Design Detail 570-5	Div. (1)
25+60.00		Lt			21.0	For Design Detail 570-5	Div. (1)
25+60.00		Lt			24.0	For Design Detail 570-5	Div. (1)
25+60.00		Lt		32.0		22.8 Lt - Utility Access	Div. (1)
25+68.00		Rt			22.0	For Design Detail 570-5	Div. (1)
25+71.16		Lt			21.0	For Design Detail 570-5	Div. (1)
			Total	262.0	435.0		

100-27
04-17-18

PROPOSED POSTED SPEED LIMIT

Road Identification	Begin Station	End Station	Proposed Posted Speed Limit			Remarks	
			35 or less	40 - 45	over 45		
Mississippi Blvd	16+06.19	16+64.67	X			12' Lane	Div. (1)
Mississippi Blvd	16+06.19	16+64.67	X			12' Lane	Div. (1)
Mississippi Blvd	16+88.68	19+30.00	X			12' Lane	Div. (1)
Mississippi Blvd	16+88.68	19+30.00	X			12' Lane	Div. (1)
14th St.	14+40.00	26+25.00	X			12' Lane	Div. (1)
14th St.	14+40.00	26+25.00	X			12' Lane	Div. (1)

100-11
04-18-17

EROSION CONTROL FOR INTAKE OR MANHOLE WELL

Possible Detail: 570-5

Location Station	Side	Cover Assembly			Remarks
		Installation	Maintenance	Removal	
		EACH	EACH	EACH	
14th Street					
15+37.18	Lt.	1	1	1	
15+45.88	Rt.	1	1	1	
16+84.23	Rt.	1	1	1	
16+99.00	Rt.	1	1	1	
18+25.00	Lt.	1	1	1	
18+25.00	Lt.	1	1	1	
19+66.43	Lt.	1	1	1	
19+74.77	Rt.	1	1	1	
20+55.00	Lt.	1	1	1	
20+55.00	Lt.	1	1	1	
20+55.00	Rt.	1	1	1	
23+25.00	Lt.	1	1	1	
23+25.00	Rt.	1	1	1	
25+60.00	Lt.	1	1	1	
25+60.00	Lt.	1	1	1	
25+68.00	Rt.	1	1	1	
25+71.16	Lt.	1	1	1	
Mississippi					
17+16.83	Rt.	1	1	1	
		18	18	18	

100-36
10-16-18

OPEN-THROAT CURB INTAKE SEDIMENT FILTER

Possible Standard: EC-602

Location Station	Side	Installation	Maintenance	Removal	Remarks
		LF	EACH	EACH	
18+25.00	Lt.	5.0	1	1	14th St
20+55.00	Lt.	5.0	1	1	14th St
20+55.00	Rt.	5.0	1	1	14th St
23+25.00	Lt.	5.0	1	1	14th St
23+25.00	Rt.	5.0	1	1	14th St
25+60.00	Lt.	5.0	1	1	14th St
25+68.00	Rt.	5.0	1	1	14th St
17+16.83	Rt.	5.0	1	1	Miss.
		40.0	8	8	

100-17
04-20-10

TABULATION OF SILT FENCES

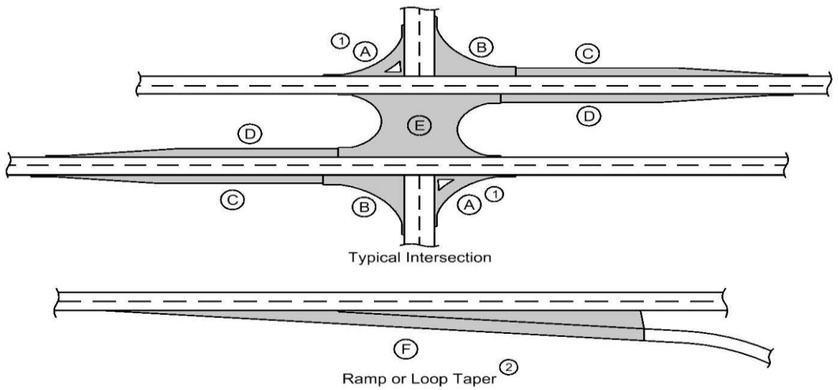
Refer to EC-201

Location			Length	Remarks
Begin Station	End Station	Side	LF	
15+40.00	16+70.00	Lt.	130.0	Div. (1)
17+70.00	19+70.00	Lt.	200.0	Div. (1)
20+40.00	26+25.00	Lt.	585.0	Div. (1)
20+40.00	26+25.00	Rt.	585.0	Div. (1)
	TOTAL		1500.0	
	BID TOTAL		1875.0	Additional 25% for additional areas identified by the engineer

EXISTING PAVEMENT

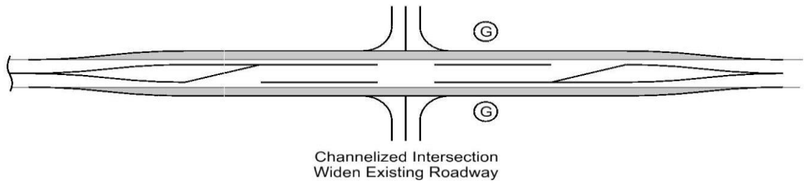
No.	Location					Year	Type	Project Number	Surface		Base		Subbase		Removal		Coarse Aggregate			Reinforcement	Remarks
	County	Route	Dir. of Travel	Begin Ref. Loc. Sign	End Ref. Loc. Sign				Type	Depth IN	Type	Depth IN	Type	Depth IN	Type	Depth IN	Source	Type	Durability Class	Type	
	Scott	Miss. B	Both						PCC	Est. 9											
	Scott	14th St	Both			1972	PCC	UN-67-1(13)--41-82	PCC	9			Granular	4							

PCC PAVEMENT

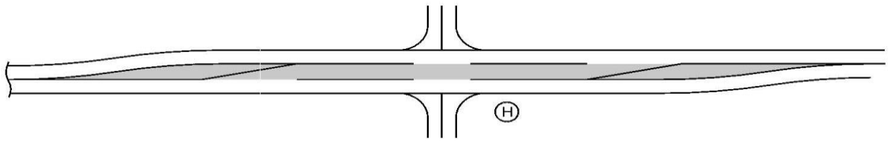


Typical Intersection

Ramp or Loop Taper (2)



Channelized Intersection
Widen Existing Roadway



Channelized Intersection
Reconstructed Roadway

(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.

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

(3) Quantity includes Pavement Header.

Road Identification	Location: Direction of Travel	Location: Station to Station		Mainline: Width FT	Mainline: Length FT	Mainline: Area SY	Area (3): A (1) SY	B SY	C SY	D SY	E SY	F (2) SY	G SY	H SY	Total Area By Pavement Thickness SY: 8 IN	11 IN	Special Backfill TONS	Modified Subbase CY	Granular Subbase SY	Remarks
Stage 1																				
14th St.	Both	14+40.00	15+46.84	43.0	106.8	508.0									508.0			194.1		Includes 219.4 LF of C&G
14th St.	Both	15+46.84	20+97.50	29.0	550.7	1728.4									1728.4			686.6		Includes 934.3 LF of C&G
Mississippi Blvd.	Both	16+06.69	16+65.00	29.0	58.3	227.9									227.9			90.9		Includes 138.3 LF of C&G
Mississippi Blvd.	Both	16+89.07	19+30.00	42.0	240.9	1187.2									1187.2			451.3		Includes 504.7 LF of C&G
Stage 2																				
14th St.	SB	20+97.50	26+25.00	14.5	527.5	849.9									849.9			339.0		Includes 527.5LF of C&G
Stage 3																				
14th St.	NB	20+97.50	26+25.00	14.5	527.5	849.9									849.9			338.3		Includes 527.5 LF of C&G
														TOTAL	5351.3			2100.2		
Detour Pavement (Stage 1)																				
14th St.	Both	20+97.50	21+22.50	Varies	25.0	44.0									44.0			8.7		Includes 25.1 LF of C&G; Detour Pavement

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe.
(1) Refer to MI-210
(2) Refer to EW-501.
(3) Refer to EW-501 or EW-502.
*Predetermined for access point not constructed with this project.

Location		Type	Length of Opening (1)			W	PR (1)(2)	SR (2)	Pipe Culvert (3)					Aprons	Driveway Surface Area		Driveway Surfacing Material	Remarks
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1½" Dropped Curb	3" Dropped Curb				H	Size	Pipe Length	Lt.	Rt.		HMA	PCC		
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	SY	SY	TON	
Mississippi	Blvd																	
18+18.00	LT	B	1		167.0	158.0	6.0									197.4		Div. (1)
14th St																		
14+54.94	LT	B	2	13.1		13.0										20.7		Div. (1)
15+12.59	LT	B	2	29.8		3.0										9.8		Div. (1)
21+53.00	RT	B	1		50.0	38.0	6.0									38.0		Div. (1)
22+36.00	RT	B	1		46.0	34.0	6.0								43.4	24.8		HMA behind sidewalk Div. (1)
23+90.00	RT	B	1	48.0		36.0	6.0									152.1		Div. (1)
24+38.00	RT	B	1	19.0		14.0	6.0									18.9		Div. (1)
24+54.00	RT	B	1	28.0		22.0	6.0									48.2		Div. (1)
24+77.00	LT	B	1	42.0		30.0	6.0									97.1		Div. (1)
25+40.00	RT	B	1	42.0		30.0	6.0									130.9		Div. (1)
25+40.77	LT														37.9			Area for Parking Lot Div.(1)
26+05.00	RT	B	1		50.0	40.0	6.0									53.0		Div. (1)
													Total		81.4	791.1		

ADJUSTMENT OF FIXTURES

No.	Location Station	Type of Fixture	Adjustment
1	16+05.25	Sanitary Manhole	Adjust up approx. 0.45' up
2	17+24.21	Sanitary Manhole	No adjustment anticipated
3	19+72.13	Water Valve	Adjust down approx. 0.29'
4	20+00.01	Water Valve	Adjust up approx. 0.34'
5	20+31.21	Water Valve	Adjust up approx. 0.28'
6	25+97.54	Water Valve	Adjust up approx. 0.70'
7	16+68.65	Storm Sewer Manhole	Adjust up approx. 0.53'
		Total	2

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25 | DCY4: Double Centerline (Yellow) @ 2.00 | NPY4: No Passing Zone Line (Yellow) @ 1.25 | BLW4: Broken Lane Line (White) @ 0.25 | ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00 | CLW6: Crosswalk Line (White) @ 3.00 | SLW2: Stop Line (White) @ 6.00

Location								Length by Line Type (Unfactored)													Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	CLW6	SLW2							
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
Stage 1																						
Mississippi	16+06.69	16+47.47	BOTH	Waterborne/Solvent Paint		X		0.41														
Mississippi	16+47.47		EB	Waterborne/Solvent Paint			X								0.16							
Mississippi	17+04.81		BOTH	Waterborne/Solvent Paint		X								0.48								
Mississippi	17+07.75	19+30.00	BOTH	Waterborne/Solvent Paint		X		2.22														
Mississippi	17+14.87		WB	Waterborne/Solvent Paint	X										0.22							
14th St.	14+40.00	19+77.87	BOTH	Waterborne/Solvent Paint		X		5.38														
14th St.	19+67.90		NB	Waterborne/Solvent Paint			X								0.16							
14th St.	19+75.25		BOTH	Waterborne/Solvent Paint		X								0.36								
14th St.	20+36.15		BOTH	Waterborne/Solvent Paint		X								0.36								
14th St.	20+39.05	20+97.50	SB	Waterborne/Solvent Paint		X			0.58													
14th St.	20+43.79		BOTH	Waterborne/Solvent Paint	X										0.15							
Stage 2																						
14th St.	20+97.50	26+30.00	NB	Waterborne/Solvent Paint	X								5.33									
Stage 3																						
14th St.	20+97.50	26+30.00	NB	Waterborne/Solvent Paint	X								5.33									
Final																						
14th St.	20+97.50	26+30.00	NB	Removal of Paint	X								5.33									
14th St.	20+97.50	26+25.00	BOTH	Waterborne/Solvent Paint		X			5.28													
				Factored Total: Waterborne/Solvent Paint				2.00	11.72	-	-	-	10.66	3.60	4.14	-	-	-	-	-	-	-	
				Factored Total: Removal of Paint				-	-	-	-	-	5.33	-	-	-	-	-	-	-	-	-	
				Bid Quantity: Painted Pavement Markings, Waterborne or Solvent-Based							32.12											
				Bid Quantity: Pavement Markings Removed							5.33											

SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
14th St.			
14+40.00	1		Stage 1 Div. (1)
19+77.00	1		Stage 1, Note 1 Div. (1)
20+30.00	1		Stage 1, Note 1 Div. (1)
21+25.00	1		Stage 1 Div. (1)
20+95.00	1		Stage 2 Div. (1)
26+25.00	1		Stage 2 Div. (1)
20+95.00	1		Stage 3 Div. (1)
26+25.00	1		Stage 3 Div. (1)
Mississippi			
12+20.00	1		Stage 1 Div. (1)
19+30.00	1		Stage 1 Div. (1)
		Note 1	Safety Closure is for
			work outside of the
			40 calendar day closure

TEMPORARY BARRIER RAIL

Possible Standard: BA-401 Possible Detail: 560-7

* Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.

No.	Station to Station		Length	(Select One)		Anchored*	Modular Glare Screen System	Remarks
				Concrete	Steel			
			LF	BA-401	560-7	(Y/N)	(Y/N)	
1	20+79.75	26+29.94	550.0	X		No	No	Stage 2, Div. (1)
								Includes 1 tapered end section
2	20+79.75	26+29.94	550.0	X		No	No	Stage 3, Div. (1)
								Includes 1 tapered end section
			1100.0					

110-14
04-16-13

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

Location/Description	Sanitary or Storm Sewer	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe ≤ 36 inch diameter LF	Length of Pipe > 36 inch diameter LF	Fill Material* Flowable Mortar or CLSM CY	Remarks	
14th St.							
P10186, 26+07.71, 26.51 Lt to 24+72.72, 28.22 Lt	Sanitary Sewer	Removal	135			8" Dia., approx. 5' deep	Div. (2)
P10185, 24+72.72, 28.22 Lt to 21+44.84, 9.55 Lt	Sanitary Sewer	Removal	329			8" Dia., approx. 8' deep	Div. (2)
P10184, 21+44.84, 9.55 Lt to 20+04.16, 2.92 Rt	Sanitary Sewer	Removal	142			8" Dia., approx. 8' deep	Div. (2)
P10181, 20+04.16, 2.92 Rt to 18+13.28, 12.95 Rt	Sanitary Sewer	Removal	192			10" Dia., approx. 6' deep	Div. (2)
P10377, 18+13.28, 12.95 Rt to 18+13.69, 0.67 Lt	Sanitary Sewer	Removal	10			10" Dia., approx. 7' deep	Div. (2)
P10176, 18+13.69, 0.67 Lt to 17+17.06, 8.73' Lt	Sanitary Sewer	Removal	99			10" Dia., approx. 7' deep	Div. (2)
P10407, 16+45.43, 43.08 Lt to 16+09.83, 12.65 Lt	Sanitary Sewer	Removal	226			8" Dia., approx. 7' deep	Div. (2)
Mississippi Blvd.							
P10380, 19+30.00, 1.33 Rt to 16+79.55, 1.91 Rt	Sanitary Sewer	Removal	250			8" Dia., approx. 6' deep	Div. (2)
P10182, 16+25.00, 1.64 Rt to 16+79.55, 1.91 Rt	Sanitary Sewer	Removal	55			8" Dia., approx. 6' deep	Div. (2)
P10174, 12+30.05, 191.06 Rt to 16+76.67, 192.31 Rt	Sanitary Sewer	Abandonment, Plug and Fill	448		5.8	8" Dia., approx. 8' deep	Div. (2)
14th St.							
P25880, 25+73.66, 17.92 Lt to 25+61.68, 17.95 Lt	Storm Sewer	Removal	12			15" Dia., approx. 5' deep	Div. (1)
P25529, 25+63.45, 16.23 Rt to 25+61.68, 17.95 Lt	Storm Sewer	Removal	34			12" Dia., approx. 3' deep	Div. (1)
P25847, 25+61.68, 17.95 Lt to 23+61.21, 58.58 Lt	Storm Sewer	Removal	210			15" Dia., approx. 4' deep	Div. (1)
P25167, 23+61.21, 58.58 Lt to 23+14.10, 35.77 Lt	Storm Sewer	Removal	52			15" Dia., approx. 4' deep	Div. (1)
P25703, 21+84.51, 20.06 Lt to 20+93.42, 42.86 Lt	Storm Sewer	Removal	94			18" Dia., approx. 4' deep	Div. (1)
P28164, 20+93.42, 42.86 Lt to 20+21.33, 51.27 Lt	Storm Sewer	Removal	73			18" Dia., approx. 4' deep	Div. (1)
P26051, 19+67.38, 22.73 Lt to 18+13.21, 16.77 Lt	Storm Sewer	Removal		154		40" Dia., approx. 9' deep	Div. (1)
P26264, 18+13.21, 16.77 Lt to 17+74.86, 17.31 Lt	Storm Sewer	Removal		38		40" Dia., approx. 9' deep	Div. (1)
P24536, 16+18.96, 41.12 Lt to 16+35.53, 11.19 Lt	Storm Sewer	Removal	36			15" Dia., approx. 6' deep	Div. (1)
P24781, 16+35.53, 11.19 Lt to 16+69.30, 11.13 Lt	Storm Sewer	Removal	36			15" Dia., approx. 5' deep	Div. (1)
P26452, 16+69.30, 11.13 Lt to 16+74.20, 24.25 Lt	Storm Sewer	Removal	14			15" Dia., approx. 4' deep	Div. (1)
Mississippi Blvd							
P25984, 16+25.49, 15.64 Lt to 16+05.82, 15.68 Rt	Storm Sewer	Removal	37			18" Dia., approx. 4' deep	Div. (1)
P25335, 17+29.88, 20.89 Lt to 17+29.57, 3.43 Rt	Storm Sewer	Removal	24			24" Dia., approx. 4' deep	Div. (1)
P25335, 17+29.57, 3.43 Rt to 17+29.24, 24.96 Rt	Storm Sewer	Abandonment, Plug and Fill	22		2.6	24" Dia., approx. 4' deep	Div. (1)
TP400, 17+29.57, 3.43 Rt to 17+16.83, 17.92 Rt	Storm Sewer	Abandonment, Plug and Fill	22		2.6	24" Dia., approx. 4' deep	Div. (1)
P26444, 17+92.27, 24.11 Lt to 17+29.24, 24.96 Rt	Storm Sewer	Removal	63			12" Dia., approx. 7' deep	Div. (1)
P26443, 17+29.24, 24.96 Rt to 17+01.85, 30.29 Rt	Storm Sewer	Removal	33			24" Dia., approx. 7' deep	Div. (1)
P25656, 17+01.85, 30.29 Rt to 16+54.39, 38.88 Rt	Storm Sewer	Removal	49			36" Dia., approx. 7' deep	Div. (1)
		Total Removal Storm	767	192			
		Total Abandonment Storm	44				
		Total Removal Sanitary	1438				
		Total Abandonment Sanitary	448				

110-8
04-17-18

REMOVAL OF CONCRETE DRIVES

* Not a Bid Item

Location Station	Side	Area SY	Saw Cut* LF	Remarks	
14th St.					
14+54.94	Lt.	20.7	2.3		Div. (1)
15+12.60	Lt.	9.8	1.1		Div. (1)
18+11.34	Lt.	26.6	3.0		Div. (1)
18+64.51	Lt.	55.7	6.2		Div. (1)
19+40.03	Lt.	42.3	4.7		Div. (1)
21+53.00	Rt.	51.6	5.7		Div. (1)
22+36.00	Rt.	84.7	9.4		Div. (1)
23+90.00	Rt.	52.7	5.9		Div. (1)
24+38.00	Rt.	28.3	3.1		Div. (1)
24+55.00	Rt.	64.8	7.2		Div. (1)
25+40.00	Rt.	143.6	16.0		Div. (1)
25+41.00	Lt.	117.3	13.0		Div. (1)
26+05.00	Rt.	51.1	5.7		Div. (1)
Brown St.					
15+13.00	Lt.	20.4	2.3	14th St. Stationing	Div. (1)
Mississippi					
18+76.00	Lt.	298.3	33.1		Div. (1)
Total		1067.9			

110-5
10-20-15

SIDEWALK REMOVAL

* Not a bid item

Begin Station	End Station	Area SY	Saw Cut* LF	Remarks
14th St.		#VALUE!		
14+40.00	Brown St.Int.	92.2		22
14+40.00	Brown St.Int.	85.7		18
17+61.03	19+64.23	107.7		10
Mississippi		#VALUE!		
16+06.70	16+56.40	26.4		10
16+24.70	16+44.70	18.3		10
16+99.10	19+30.00	111.5		10
18+89.30	19+30.00	17.6		10
	TOTAL	459.4		

110-1
04-16-13

REMOVAL OF PAVEMENT

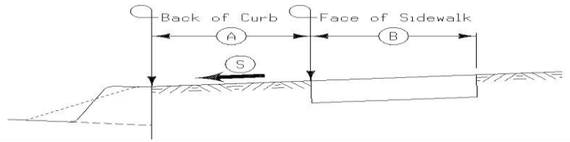
Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area SY	Saw Cut* LF	Remarks	
14+40.00	16+60.92	Both	PCC	1074.5	43.9	Stage 1, Ex. Brown St.	Div. (1)
16+41.54	20+06.00	Both	PCC	1327.9	82.9	Stage 1, Ex. 14th St.	Div. (1)
NE Quad. Of	14th/Miss.	Right	PCC	187.8	0.0	Stage 1, Ex. Temp. Connection	Div. (1)
Area behind	Prop. Retain.	Wall	HMA	415.0	220.9	Stage 1, Our Lady of Lourdes Parking Lot	Div. (1)
16+06.69	16+35.00	Both	PCC	93.6	56.0	Stage 1, Ex. Mississippi Blvd.	Div. (1)
17+25.04	19+30.00	Both	PCC	949.6	254.9	Stage 1, Ex. Mississippi Blvd.	Div. (1)
20+06.00	26+25.00	Left	PCC	1238.6	14.6	Stage 2, Ex. 14th St.	Div. (1)
Kimberly Rd	NW of 14th St	and Miss.	PCC	36.5	0.0	Stage 2, to I-74 Ent. Ramp	Div. (1)
Between Kimb.	and 14th St.		PCC	264.7	0.0	Stage 2	Div. (1)
24+62.00	24+92.00	Left	HMA	26.2	45.8	Stage 2, Parking Lot Pavement	Div. (1)
20+06.00	26+25.00	Right	PCC	1219.6	14.5	Stage 3, Ex. 14th St.	Div. (1)
			Total	6834.0			

SIDEWALKS

See MI-220 and S Sheets



Intersection/Road	Quadrant/Side	Length	A	B	S	4" PCC Sidewalk	6" PCC Sidewalk	8" PCC Sidewalk	10" PCC Sidewalk	Detectable Warnings	Remarks
			FT	FT	%	SY	SY	SY	SY	SF	
Mississippi	Rt.	40.37	6.00	5.00	4.00%	22.9					Div. (1)
Mississippi	Lt.	47.68	6.00	5.00	4.00%	24.8					Div. (1)
Mississippi	Rt.	14.82	6.00	5.00	4.00%		7.8			10	Div. (1)
Mississippi	Lt.	10.57	6.00	5.00	4.00%		5.5			10	Div. (1)
Mississippi	Rt.	7.63	0.00	5.00	N\A		3.3			10	Div. (1)
Mississippi	Lt.	7.35	6.00	5.00	4.00%		3.0			10	Div. (1)
Mississippi	Rt.	223.61	0.00	5.00	N\A	137.2					Div. (1)
Mississippi	Lt.	21.81	6.00	5.00	4.00%	12.0					Div. (1)
Mississippi	Lt.	158.36	6.00	5.00	4.00%		88.1				Div. (1)
Mississippi	Lt.	41.3	3.35	4.00	4.00%	21.3					Div. (1)
14th St.	Lt.	99.35	0.00	4.00	N\A	46.2					Div. (1)
14th St.	Rt.	533.26	4.00	5.00	4.00%	276.6					Div. (1)
14th St.	Lt.	15.03	0.00	6.50	N\A	10.8					Div. (1)
14th St.	Rt.	10.46	4.00	5.00	4.00%		5.2			10	Div. (1)
14th St.	Rt.	9.77	6.00	5.00	4.00%		4.8			10	Div. (1)
14th St.	Lt.	423.65	6.00	5.00	4.00%	235.4					Div. (1)
14th St.	Rt.	394.46	6.00	5.00	4.00%	52.8					Div. (1)
14th St.	Rt.	338	6.00	5.00	4.00%		21.1				Div. (1)
14th St.	Rt.	46.6	6.00	5.00	4.00%	25.9					Div. (1)
14th St.	Rt.	34	6.00	5.00	4.00%		18.9				Div. (1)
14th St.	Rt.	119.77	6.00	5.00	4.00%	66.0					Div. (1)
14th St.	Rt.	35	6.00	5.00	4.00%		20.0				Div. (1)
14th St.	Rt.	23.19	6.00	5.00	4.00%	12.9					Div. (1)
14th St.	Rt.	34.8	6.00	5.00	4.00%		19.3				Div. (1)
14th St.	Lt.	30	6.00	5.00	4.00%		16.7				Div. (1)
14th St.	Rt.	60.03	6.00	5.00	4.00%	32.8					Div. (1)
14th St.	Rt.	30.03	6.00	5.00	4.00%		16.7				Div. (1)
14th St.	Rt.	30.58	6.00	5.00	4.00%	16.3					Div. (1)
14th St.	Lt.	30	6.00	5.00	4.00%		16.7				Div. (1)
14th St.	Rt.	60.03	6.00	5.00	4.00%	32.8					Div. (1)
14th St.	Rt.	30.03	6.00	5.00	4.00%		16.7				Div. (1)
14th St.	Rt.	30.58	6.00	5.00	4.00%	16.3					Div. (1)
					Total	993.8	230.3			60	

110-15
04-16-13

REMOVAL OF INTAKES AND UTILITY ACCESSES

No.	Location/Description	Type	Remarks	
	14th St.			
10377	Sta 18+13.28, 13.0 Rt	Utilities	Sanitary Sewer	Div. (2)
10176	Sta 18+13.69, 0.7 Lt	Utilities	Sanitary Sewer	Div. (2)
10181	Sta 20+04.16, 2.9 Rt	Utilities	Sanitary Sewer	Div. (2)
10184	Sta 21+44.84, 9.55 Lt	Utilities	Sanitary Sewer	Div. (2)
10185	Sta 24+72.78, 28.2 Lt	Utilities	Sanitary Sewer	Div. (2)
10186	Sta 26+07.65, 26.5 Lt	Utilities	Sanitary Sewer	Div. (2)
	14th St.			
25529	Sta 25+63.45, 16.2 Rt	Intakes	Storm Sewer	Div. (1)
25847	Sta 25+61.68, 18.0 Lt	Intakes	Storm Sewer	Div. (1)
25167	Sta 23+61.21, 58.6 Lt	Intakes	Storm Sewer	Div. (1)
25703	Sta 21+84.51, 20.1 Lt	Intakes	Storm Sewer	Div. (1)
28164	Sta 20+93.42, 42.9 Lt	Intakes	Storm Sewer	Div. (1)
26051	Sta 19+67.38, 22.7 Lt	Utilities	Storm Sewer	Div. (1)
26264	Sta 18+13.21, 16.8 Lt	Utilities	Storm Sewer	Div. (1)
26452	Sta 16+69.30, 11.1 Lt	Intakes	Storm Sewer	Div. (1)
24781	Sta 16+35.42, 10.8 Lt	Intakes	Storm Sewer	Div. (1)
24536	Sta 16+18.89, 41.0 Lt	Intakes	Storm Sewer	Div. (1)
	Mississippi Blvd			
26488	Sta 16+05.82, 15.7 Rt	Intakes	Storm Sewer	Div. (1)
25984	Sta 16+25.49, 15.6 Lt	Intakes	Storm Sewer	Div. (1)
25656	Sta 17+01.85, 30.3 Rt	Utilities	Storm Sewer	Div. (1)
26443	Sta 17+29.24, 25.0 Rt	Intakes	Storm Sewer	Div. (1)
25335	Sta 17+29.88, 20.9 Lt	Intakes	Storm Sewer	Div. (1)

WHKS-1
MODIFIED

SANITARY SEWER SERVICES

Number	Address	Approximate Station	Length	Size	Remarks	
			LF	Inches		
1	1423 Brown St.	14+82, Lt.	40.0	6.0	Measured to ROW line	Div. (2)
2	1414 Mississippi Blvd.	Unknown	38.0	6.0	Measured to end of driveway construction	Div. (2)
3	701 14th St.	24+63, Rt.	50.0	6.0	Measured to ROW line	Div. (2)
4	711 14th St.	23+22, Rt.	68.0	6.0	Measured to Temp. Easement line	Div. (2)
5	710 14th St.	24+51, Lt.	18.0	6.0	Measured to ROW line	Div. (2)
		Total	214.0	Notes:	1. All Service stubs are connections to existing services	
					2.Contractor is to verify location of service to buildings	
					prior to the construction of Service Stubs	
					3. Any fittings that may be necessary to connect Service	
					Stubs to existing private services shall be considered	
					incidental to the Sanitary Sewer Service bid item	
					4. Location of service to 1414 Mississippi Blvd. is	
					unknown. Contractor to locate prior to construction.	

103-10
04-18-17

TOPSOIL STRIPPING AND PLACEMENT

Location				Topsoil Stripping Thickness	Topsoil Placement Thickness	Remarks
Road Identification	Dir. of Traffic	Begin Station	End Station	IN	IN	
US 67 Ramp D	NB	4495+87.17	4495+91.85	N/A	8.0	Div. (1)
US 67 Ramp D	NB	4495+99.68	4496+34.48	N/A	8.0	Div. (1)
Mississippi Blvd	EB	16+06.46	16+44.66	N/A	8.0	Div. (1)
Mississippi Blvd	EB	16+06.46	16+44.66	N/A	8.0	Div. (1)
Mississippi Blvd	WB	16+06.46	16+39.89	N/A	8.0	Div. (1)
Mississippi Blvd	WB	16+06.46	16+39.89	N/A	8.0	Div. (1)
Mississippi Blvd	EB	17+07.93	19+29.84	N/A	8.0	Div. (1)
Mississippi Blvd	WB	17+09.15	17+30.34	N/A	8.0	Div. (1)
Mississippi Blvd	WB	17+09.15	17+29.96	N/A	8.0	Div. (1)
Mississippi Blvd	WB	18+88.60	19+30.00	N/A	8.0	Div. (1)
Mississippi Blvd	WB	18+89.01	19+30.00	N/A	8.0	Div. (1)
14th St.	EB	14+40.00	19+72.87	N/A	8.0	Div. (1)
14th St.	WB	14+40.00	19+73.14	N/A	8.0	Div. (1)
14th St.	WB	17+32.59	14+43.23	N/A	8.0	Div. (1)
14th St.	SB	19+77.72	19+90.85	N/A	8.0	Div. (1)
14th St.	SB	20+20.28	20+33.35	N/A	8.0	Div. (1)
14th St.	SB	20+38.38	24+62.00	N/A	8.0	Div. (1)
14th St.	SB	20+38.38	24+62.00	N/A	8.0	Div. (1)
14th St.	NB	20+39.79	21+34.25	N/A	8.0	Div. (1)
14th St.	NB	20+39.58	21+34.25	N/A	8.0	Div. (1)
14th St.	NB	21+72.25	22+18.85	N/A	8.0	Div. (1)
14th St.	NB	21+72.25	22+18.85	N/A	8.0	Div. (1)
14th St.	NB	22+85.85	23+71.62	N/A	8.0	Div. (1)
14th St.	NB	22+85.85	23+71.62	N/A	8.0	Div. (1)
14th St.	NB	24+07.62	24+30.81	N/A	8.0	Div. (1)
14th St.	NB	24+07.62	24+30.81	N/A	8.0	Div. (1)
14th St.	NB	24+65.61	25+24.64	N/A	8.0	Div. (1)
14th St.	NB	24+65.61	25+24.64	N/A	8.0	Div. (1)
14th St.	SB	24+92.00	26+25.00	N/A	8.0	Div. (1)
14th St.	NB	25+54.64	25+85.23	N/A	8.0	Div. (1)
14th St.	NB	25+54.64	25+85.23	N/A	8.0	Div. (1)
				N/A	8.0	Area for Pavement Removal Div. (1)
				N/A	8.0	Area for Pavement Removal Div. (1)

103-6
10-17-17

EMBANKMENT WITH MOISTURE CONTROL

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.

103-7
08-01-08

SHRINKAGE DATA

Material	%	Remarks
TOPSOIL	50%	
CLASS 10	30%	
ROCK	0%	
		BOULDERS 50 Cu. Yds.
		excluding Class 12
		Rock Excavation

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

Refer to Soils Sheets

* Not a bid item. Bridge berm quantities assume a trench depth of 24 inches.

Location						Longitudinal Subdrain (DR-303)								Subdrain Outlet		Porous* Backfill	Class "A"* Crushed Stone	Remarks
Line No.	Road or Lane Identification	Station to Station		Side	Depth (D)	Shoulder		Backslope		Bridge Berm (EW-203 or EW-204)				DR-303, DR-305 or DR-306				
						Size	Length	Size	Length	Standard Road Plan and Type	Size	Length		Station	Standard Road Plan and Type			
					IN	IN	FT	IN	FT		IN	FT				CY	CY	
1	MISS.	16+06.69	17+16.83	RT	30.0	4.0	150.1							16+06.69	DR-303	9.3		
														17+16.83	DR-303			
2	MISS.	17+16.83	19+30.00	RT	30.0	4.0	253.2							17+16.83	DR-303	15.6		CAP @ 19+30
3	MISS.	16+06.69	19+30.00	LT	30.0	4.0	363.3							16+06.69	DR-303	22.4		TIE INTO EXISTING INTAKE
														19+30.00	DR-303			
4	14TH ST	14+40.00	15+33.00	RT	24.0	4.0	133.0							14+40.00	DR-303	6.2		CAP @ 14+40
														15+33.00	DR-303			
5	14TH ST	15+33.00	16+99.00	RT	30.0	4.0	206.0							15+33.00	DR-303	12.7		
														16+99.00	DR-303			
6	14TH ST	16+99.00	20+55.00	RT	24.0	4.0	396.0							16+99.00	DR-303	18.3		
														20+55.00	DR-303			
7	14TH ST	20+55.00	23+25.00	RT	24.0	4.0	310.0							20+55.00	DR-303	14.4		
														23+25.00	DR-303			
8	14TH ST	23+25.00	25+68.00	RT	24.0	4.0	283.0							23+25.00	DR-303	13.1		
														25+68.00	DR-303			
9	14TH ST	25+68.00	26+25.00	RT	24.0	4.0	97.0							25+68.00	DR-303	4.5		CAP @ 26+25
10	14TH ST	14+40.00	15+12.00	LT	30.0	4.0	112.0							14+40.00	DR-303	6.9		CAP @ 14+40
														15+12.00	DR-303			
11	14TH ST	15+12.00	18+25.00	LT	24.0	4.0	353.0							15+12.00	DR-303	16.3		
12	14TH ST	18+25.00	20+55.00	LT	24.0	4.0	270.0							18+25.00	DR-303	12.5		
														20+55.00	DR-303			
13	14TH ST	20+55.00	23+25.00	LT	24.0	4.0	310.0							20+55.00	DR-303	14.4		
														23+25.00	DR-303			
14	14TH ST	23+25.00	25+60.00	LT	24.0	4.0	275.0							23+25.00	DR-303	12.7		
														25+60.00	DR-303			
15	14TH ST	25+60.00	26+25.00	LT	24.0	4.0	105.0							25+60.00	DR-303	4.9		CAP @ 26+25
														26+25.00	DR-303			TIE INTO EXISTING SUBDRAIN
							3616.6											

NOTE: ALL ITEMS ARE DIVISION #1.

NOTE: ALL LOCAL ROAD SUBDRAINS ARE DR-303 TYPE 7A INSTALLATION.
ALL OUTLETS ARE DR-303 "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.

NOTE: WORK TO TIE PROPOSED SUBDRAIN TO EXISTING SUBDRAIN SHALL BE CONSIDERED INCIDENTAL TO LONGITUDINAL SUBDRAIN.

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- SB — Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- G — Grave
- CV — Cave
- SH — 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)
- Electrical Highline Tower (Metal or Concrete)
- Power Pole
- Power Pole (Second Company)
- Power Pole (Third Company)
- Power Pole (Fourth Company)
- Power Pole (Fifth Company)
- 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

UTILITY LEGEND

- FO2 — Existing Fiber Optics (Windstream)
- FO3 — Existing Fiber Optics (Centurylink)
- FO7 — Existing Fiber Optics (Windstream)
- E1 — Existing Power Line (MidAmerican)
- E2 — Existing Power Line (MidAmerican)
- E3 — 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)
- St.S — Existing Storm Storm Sewer
- T1 — Existing Telephone Line (Century Link)
- TV2 — Existing Cable Television Line (MediaCom)
- W — Existing Water Line (IA American)
- W(C) — Iowa American (Abandoned)

TABULATION OF UTILITIES

102-13A
10-29-02

MidAmerican Energy
(Electrical Distribution)
Karl Derrick
2811 5th Avenue
Rock Island, IL 61201
309-793-3696
kjderick@midamerican.com

MidAmerican Energy
(Electrical Transmission)
Tom Albertson
106 East 2nd Street
Davenport, IA 52801
563-338-8155
ktalbertson@midamerican.com

Centurylink (formerly Qwest)
Antonio (Tony) Glessner
3908 Utica Ridge Road
Bettendorf, IA 52722
563-355-6402
antonio.glessner@centurylink.com

MidAmerican Energy (Gas)
Rod Hawk
2811 5th Avenue
Rock Island, IL 61201
309-793-3760
rlhawk@midamerican.com

Central Scott Telephone Company
Rick Billups
P.O. Box 260
Eldridge, IA 52748
563-285-9611
rick@cstech.com

Iowa American Water
David Kull
5201 Grand Ave.
Davenport, IA 52807
563-468-9225
david.kull@amwater.com

MediaCom Communications
Dennis Jarding
3900 26th Avenue
Moline, IL 61265
309-743-4750
djarding@mediacomcc.com

City of Bettendorf
Dennis Snyder
4403 Devils Glen Road
Bettendorf, IA 52722
563-344-4055
dsnyder@bettendorf.org

Windstream
(formerly PAETEC & McLeod USA)
Dale Graff
614 West Street South
Grinnel, IA 50112
641-269-7725 (Office)
dale.a.graff@windstream.com

IADOT Davenport
Maintenance Garage
Clyde Tobey
8721 N.W. Blvd. (P.O. Box 2646)
Davenport, IA 52809
563-391-3920
clyde.tobey@dot.iowa.gov

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
Blue, Light	(230)	Previously Constructed Storm Sewer*

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
Brown, Dark	(237)	Previously Constructed Pavement*
Tan	(8)	Proposed Sidewalk 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

- Survey Line (Station — Reference Point)
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Properties Assumed Cleared (By Others) Prior to Construction

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

AT&T
Lennie Vohs
1425 Oak Street
Kansas City, MO 64106
816-275-4014
lv2121@att.com

Iowa Network Services
Jeff Klocko
4201 Corporate Drive
West Des Moines, IA 50266
515-830-0445
jeff@netins.com

Legend And Symbol Information Sheet

D, E, F, AND K SHEETS

(Symbols are Typical Only)

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

EX. I-74 ENT. RAMP

EX. I-74 ENT. RAMP

PI Sta 16+80.23

90°34'06.53"

14TH ST

EX. 14TH ST

+77 Prop. Type "B" Ent.

87°38'18.81"

SIDEWALK

END RET. WALL 175

PI Sta 17+51.53

RUNOUT CURB AROUND 5' RADIUS

CONSTRUCT 1 1/2" DROP CURB ON LEFT SIDE FROM STATION 14+40 TO 15+40

PC Sta 15+51.84

44'±

PI STA. 20+06.00 (14TH ST)
=PI STA. 16+76.67 (MISSISSIPPI BLVD)

MISSISSIPPI BLVD

+53 Prop. Type "B" Ent.

+36 Prop. Type "B" Ent.

+90 Prop. Type "B" Ent.

+38 Prop. Type "B" Ent.

+54 Prop. Type "B" Ent.

DO NOT DISTURB RETAINING WALL

+13 Prop. Type "B" Ent.

+55 Prop. Type "B" Ent.

Curve Data
PI Sta 16+80.23
Δ = 91°31'47.63" RT
D = 45°50'11.84"
R = 125.00
T = 128.38
L = 199.69
E = 54.18
e = 4.00
L = 65.00
x = 32.00
m = 19.50

BEGIN RET. WALL 175

+40 Prop. Type "B" Ent.

+05 Prop. Type "B" Ent.

STA. 26+25.00
END CONSTRUCTION

SIDEWALK

STA. 14+40.00
BEGIN CONSTRUCTION

15TH ST

EX. 15TH ST

EX. 15TH ST

EX. BROWN ST

EX. MISSISSIPPI BLVD

0 FEET 50

Refer to M Sheets for Storm Sewer Details

For Profile Details Refer to Sheet No. D.3

SEC. 28

14TH ST

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER D.2

8:42:15 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-D.sht

Fill+30% = 925 CY
To Stockpile = 1,795 CY
2,720 CY

Cut = 2,720 CY

STA. 14+40.00
BEGIN CONSTRUCTION
ELEV. 578.96

VPI +00.00
Elv 578.32
K = 238
Len 100.00 ft

-1.060%

-1.480%

EXISTING GROUND

+0.520%

VPI +75.00
Elv 575.73
K = 50
Len 100.00 ft

VPI +25.00
Elv 577.55
K = 125
Len 400.00 ft

Sta. 20+06.0
℄ Mississippi Blvd.

+3.720%

STA. 26+25.00
END CONSTRUCTION
ELEV. 612.94

-3.4%/+4%
+1.5%
595
+77.00
Prop. Type "B" Ent. Lt.

+12.429%

14TH ST PGL

+0.5%
-13.5%
+40.00
601
Prop. Type "B" Ent. Rt.

VPI +75.00
Elv 594.29
K = 34
Len 250.00 ft

+1%/+3.1%
+1.5%
+54.00
594
Prop. Type "B" Ent. Rt.

+4%
+05.00
610
Prop. Type "B" Ent. Rt.

+9%/+4.6%
+1.5%
+36.00
584
Prop. Type "B" Ent. Rt.

+1%/+8.7%
+1.5%
+38.00
593
Prop. Type "B" Ent. Rt.

+9%/+0.4%
575
+54.94
Prop. Type "B" Ent. Lt.

3%/2%
575
+12.59
Prop. Type "B" Ent. Lt.

+1.5%/4%
+5.2%
+53.00
581
Prop. Type "B" Ent. Rt.

+1.5%/2.1%
+6%
+90.00
589
Prop. Type "B" Ent. Rt.

14TH ST

For Plan Details
Refer to Sheet No.D.2

Lt	Ent.	Curb & Gutter	Mississippi Blvd.	Curb & Gutter	Ent.	Curb & Gutter	Ent.	Curb & Gutter	Lt
Rt	Ent.	Curb & Gutter	Mississippi Blvd.	C&G	Ent.	C&G	Ent.	Curb & Gutter	Ent. C&G Ent. C&G Ent. C&G Ent.	Rt

14	15	16	17	18	19	20	21	22	23	24	25	26
578.85	578.58	578.27	577.94	577.58	577.21	576.84	576.47	576.17	575.98	575.93	575.99	576.12	576.25	576.38	576.51	576.67	576.87	577.13	577.43	577.79	578.19	578.65	579.15	579.71	580.31	580.97	581.67	582.43	583.23	584.09	584.99	585.92	586.85	587.78	588.71	589.64	590.68	591.94	593.41	595.11	597.02	599.14	601.49	604.05	606.83	609.83	612.94

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER D.3

8:42:16 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-D.sht

Refer to M Sheets
for Storm Sewer Details

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

EX. JONES ST

EX. HOLMES ST

MISSISSIPPI BLVD

EX. BROWN ST

BROWN ST

KIMBERLY RD

EX. I-74 ENTRANCE RAMP

14TH ST

EX. 15TH ST

EX. MISSISSIPPI BLVD

STA. 16+64.67
TIE INTO 14TH ST

90°20'53.48"

87°38'18.81"

+18 Prop. Type "B" End

STA. 16+88.68
TIE INTO 14TH ST

SIDEWALK

PI STA. 16+76.67 (MISSISSIPPI BLVD)
=PI STA. 20+06.00 (14TH ST)

STA. 16+06.69
BEGIN CONSTRUCTION

STA. 19+30.00
END CONSTRUCTION

EX. BROWN ST

SEC. 28

For Profile Details
Refer to Sheet No. E.2

0 FEET 50

MISSISSIPPI BLVD

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER E.1

8:42:25 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-E.sht

Fill+30% = 121 CY
To Stockpile = 372 CY
493 CY

Cut = 493 CY

I-74 EBL VERTICAL CLEARANCE = 19.01'

I-74 WBL VERTICAL CLEARANCE = 18.07'

US 67 RAMP A VERTICAL CLEARANCE = 15.14'

US 67 RAMP D VERTICAL CLEARANCE = 15.36'

I-74 EB

I-74 WB

US 67 RAMP A

US 67 RAMP D

EXISTING GROUND

STA. 16+64.67
TIE INTO 14TH ST
ELEV. 578.52

STA. 16+88.68
TIE INTO 14TH ST
ELEV. 578.54

+2.080%

-0.520%

+1.740%

-0.520%

MISSISSIPPI BLVD PGL

VPI +00.00
Elv 577.17
K = 38
Len 100.00 ft

VPI +50.00
Elv 578.22
K = 44
Len 100.00 ft

STA. 16+06.69
BEGIN CONSTRUCTION
ELEV. 577.55

STA. 19+30.00
END CONSTRUCTION
ELEV. 581.34

MISSISSIPPI BLVD

For Plan Details
Refer to Sheet No.E.1

C&G | 14th St. | C&G | Ent. | C&G

C&G | 14th St. | Curb & Gutter | Ent.

577.50	577.77	578.21	578.72	578.46	578.40	578.48	578.70	579.07	579.50	579.94	580.37	580.81	581.24

620 615 610 605 600 595 590 585 580 575 570 565 560 555 550 545

Lt

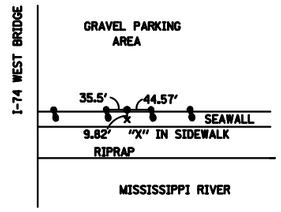
Rt

8 9 10 11 12 13 14 15 16 17 18 19 20 21

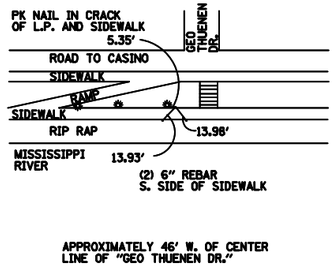
ENGLISH	IOWA DOT	DESIGN TEAM **WHKS & Co.**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **E.2**

8:42:25 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-E.sht

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

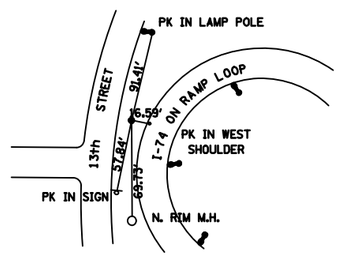


GPS 015
IOWA D.O.T. REBAR
XC=2459345.70 YC= 568727.73

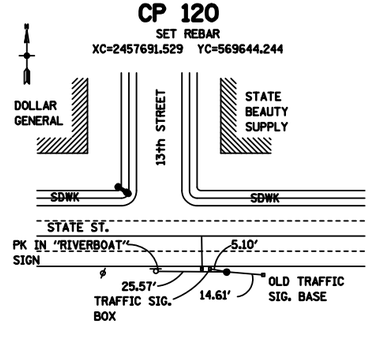


APPROXIMATELY 46' W. OF CENTER LINE OF "GEO THUENEN DR."

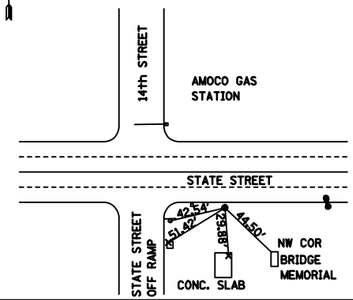
CP 119
SET REBAR
XC=2457540.364 YC=570346.488



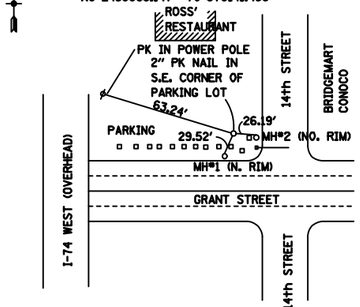
CP 120
SET REBAR
XC=2457691.529 YC=569644.244



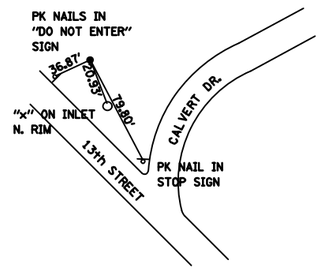
CP 121
SET REBAR
XC=2458219.673 YC=569679.278



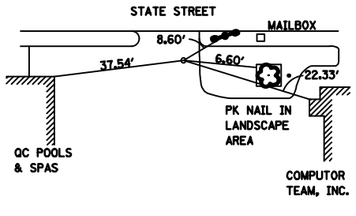
CP 122
SET PK NAIL
XC=2458088.147 YC=570141.496



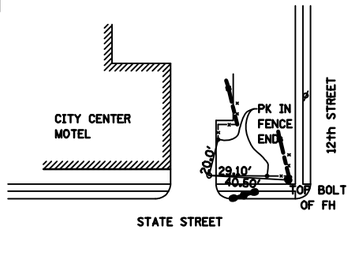
CP 125
SET REBAR
XC=2457651.639 YC=571037.636



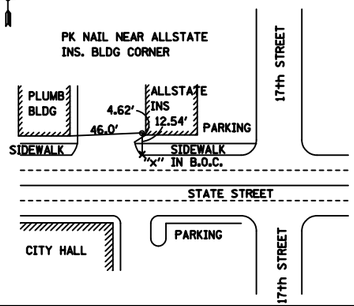
CP 126
SET 2" PK NAIL
XC=2456791.104 YC=569585.544



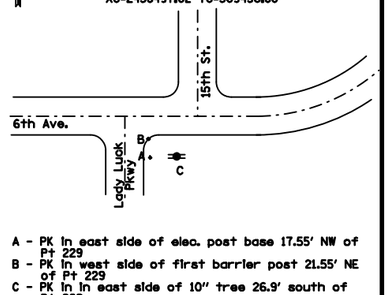
CP 127
SET 2" PK NAIL
XC=2457231.452 YC=569688.750



CP 128
SET PK NAIL
XC=2459161.133 YC=569812.022

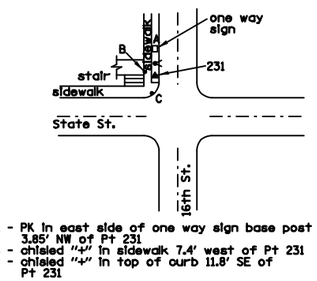


GPS 230
Pt (5/8" Rebar) is on the right corner intersection of Lady Luck Pkwy and Gilbert St. 4.5' back of curb
XC=2458497.62 YC=569456.88



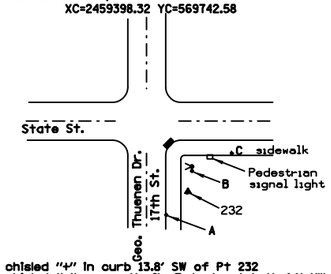
A - PK in east side of elec. post base 17.55' NW of Pt 229
B - PK in west side of first barrier post 21.55' NE of Pt 229
C - PK in in east side of 10" tree 26.9' south of Pt 229

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



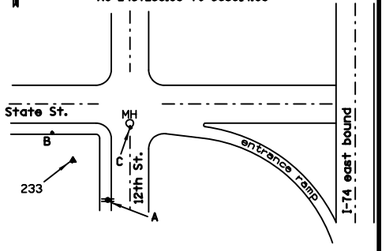
A - PK in east side of one way sign base post 3.85' NW of Pt 231
B - chisled "+" in sidewalk 7.4' west of Pt 231
C - chisled "+" in top of curb 11.8' SE of Pt 231

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



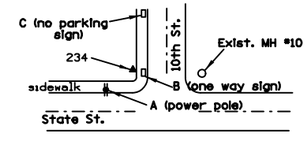
A - chisled "+" in curb 13.8' SW of Pt 232
B - chisled "+" on south fig F. hydrant bolt 4.1' NW of Pt 232
C - chisled "+" in top of inside edge of sidewalk 16.2' NE of Pt 232

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



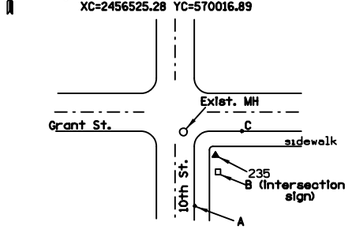
A - PK in west side of power pole base 50.85' SE of Pt 233
B - chisled "+" on edge of sidewalk 14.9' NW of Pt 233
C - chisled "+" in south edge of MH rim (stm mh #8) 29.13' NE of Pt 233

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



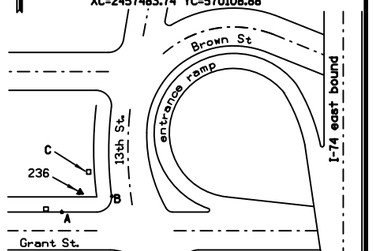
A - PK in power pole 9.5' SW of Pt 234
B - PK in south side of one way post base 5.6' NE of Pt 234
C - chisled "+" in west side of no parking post base 24.0' NE of Pt 234

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



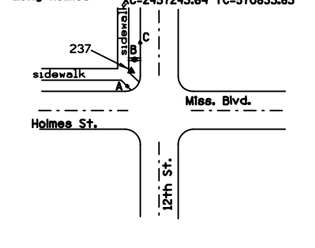
A - chisled "+" in curb 10.85' SW of Pt 235
B - west side of Grant & 10th St. post sign base 2.67' SE of Pt 235
C - chisled "+" in top of curb 8.75' NE of Pt 235

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



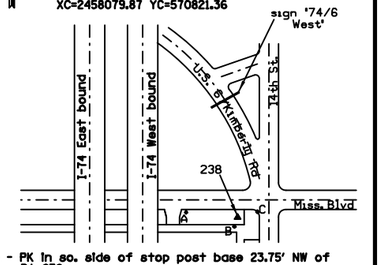
A - chisled "+" on curb 9.95' SW of Pt 236
B - chisled "+" on curb 8.5' SE of Pt 236
C - PK in west side of left leg of sign post 10.0' NE of Pt 236

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

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.

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:
License number 09174
My license renewal date is December, 2016
Pages or sheets covered by this seal: G.1

ENGLISH	IOWA DOT	DESIGN TEAM AMERICAN SURVEYING	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.1	

Scott County
IM-074-1(162)2--13-82
I-74 From South of Lincoln Rd to North of 67th Street
Pin 03-82-074-010-04
SAP 0337.4

General Information

This survey is in English Units. The purpose of this survey was to re-observe and re-level all control. All Bench Marks on the Iowa side of the Mississippi River were re-leveled. All control on the Iowa side of the Mississippi River North of CP123 was re-observed. One new GPS calibration was generated using re-observed control, new supplemental project control, and re-leveled benchmarks along existing I-74. The purpose of this survey was to update old information, confirm the accuracy of old information then collect and verify information along I-74.

The IDOT GPS network control along I-74 was held fixed in the RTK calibration.
Calibration points held fixed Horizontally and Vertically 5,6,10,17,20,25,100,101,102,103,111,153,243,560,612,
Calibration points held fixed Vertically 7,21,106,108,109,110,116,157,250,252,254,255,556,563
Calibration points held fixed Horizontally 12, 13,15.

The project coordinates are projected to the ground.

Vertical Datum

This survey is relative to NAVD 88 vertical datum. A new level loop originated and terminated on the original I-74 mark BM 503. The new level loop ran north to I-80 then returned to BM 503. Loops were also run on Lincoln, Middle road, Spruce Hills & 53rd Street.

Benchmarks were re-established on the new Lincoln Rd overpass bridge. Vertical differences between the 2003 CH2MHill marks and the newly established elevations are as follows, At the Middle Road intersection a vertical difference of 0.062 was found (SEE BM509 equation below). At the Spruce Hills intersection a vertical difference of 0.078 was found (SEE BM514 equation below). All elevations along 53rd street were originally leveled from BM 522, BM 522 has been destroyed in recent construction. Just West of the 53rd Street intersection a vertical difference of 0.066 was found (SEE BM560 equation below).

Vertical Equations;

BM # 503 this survey	Elev. = 580.282 (NAVD 88 English) 2011 Datum BM
=BM # 503	Elev. = 580.282 (NAVD 88 English) I-74 Consultant survey
BM # 509 this survey	Elev. = 677.516 (NAVD 88 English) 2011 Re-Leveled
=BM # 509	Elev. = 677.578 (NAVD 88 English) I-74 Consultant survey
BM # 514 this survey	Elev. = 680.944 (NAVD 88 English) 2011 Re-Leveled
=BM # 514	Elev. = 681.022 (NAVD 88 English) I-74 Consultant survey
=BM # 514	Elev. = 681.022 (NAVD 88 English) 2009 WHKS Kimberly Road Survey
BM # 560 this survey	Elev. = 686.934 (NAVD 88 English) 2011 Re-Leveled
=BM # 560	Elev. = 687.000 (NAVD 88 English) 2008 WHKS 53rd St Survey
BM # 564 this survey	Elev. = 710.632 (NAVD 88 English) 2011 Re-Leveled
=BM # 564	Elev. = 710.688 (NAVD 88 English) 2008 WHKS 53rd St Survey
BM # 556 this survey	Elev. = 707.691 (NAVD 88 English) 2011 Re-Leveled
=BM # 556	Elev. = 707.745 (NAVD 88 English) 2008 WHKS 53rd St Survey
BM # 573 this survey	Elev. = 624.321 (NAVD 88 English) 2011 Re-Leveled
=BM # 317 Scott Co Plan (I-74-1(5)2**01--82	Elev. = 625.21 Datum Unknown
BM # 574 this survey	Elev. = 649.518 (NAVD 88 English) 2011 Re-Leveled
=BM 320"A" Scott Co Plan (I-74-1(5)2--01--82	Elev. = 649.36 Datum Unknown
BM # 575 this survey	Elev. = 653.550 (NAVD 88 English) 2011 Re-Leveled
=BM 423"A" Scott Co Plan (I-74-1(5)2--01--82	Elev. = 654.42 Datum Unknown
BM # 576 this survey	Elev. = 646.600 (NAVD 88 English) 2011 Re-Leveled
=BM 328"A" Scott Co Plan (I-74-1(6)3**01-82	Elev. = 647.61 Datum Unknown

Alignments

Alignments were provided from previous surveys.

Horizontal Datum & Project Coordinate Transformation

The IDOT observed a GPS Static control network for the I-74 Mississippi River Bridge.

GENERAL INFORMATION FOR GPS PROJECT : Sap 0337 IMN-74-1(123)0-0e-82

STATE PLANE COORDINATE ZONE 1402 (IOWA SOUTH LAMBERT)

STATE PLANE COORDINATES HELD AT POINT G021

AVERAGE PROJECT LATITUDE = 41 33 2.13112

RESULTING RADIUS = 6363530.832 (METERS)

MEAN PROJECT ELEVATION = 195.000 (METERS)

SEA LEVEL FACTOR = 0.999969358

AVERAGE PROJECT SCALE FACTOR = 0.999967147

COMBINED FACTOR (GRID) = 0.999936506

1 / GRID = 1.000063498

VERTICAL DATUM = NAVD 88 <> HORIZONTAL DATUM = NAD 83 (1996)

Local Project Plane Coordinate Conversion Equation:
a. Local Project Coord y = [(State Plane y - hold point y) 1/grid factor] + hold point y
b. Local Project Coord x = [(State Plane x - hold point x) 1/grid factor] + hold point x

ALL COORDINATES CONVERTED TO ENGLISH UNITS

POINT	STATE PLANE COORD(Y)	STATE PLANE COORD(X)	POINT SCALE FACTOR	LOCAL PROJECT PLANE COORD(Y)	LOCAL PROJECT PLANE COORD(X)	Leveled Elevation
2	575101.117	2456247.982	0.99996155	575100.785	2456248.039	671.710
3	575305.685	2456670.142	0.99995733	575305.366	2456670.226	677.231
4	587761.953	2454890.061	0.99995075	587762.425	2454890.032	699.736
5	579548.598	2465909.733	0.99996337	579548.549	2465910.403	-------
6	592312.279	2465381.409	0.99996316	592313.040	2465382.046	-------
7	570852.050	2449647.188	0.99996322	570851.449	2449646.826	-------
10	566360.220	2467519.750	0.99996337	566359.333	2467520.523	-------
11	565294.190	2460631.000	0.99996316	565293.236	2460631.335	-------
12	564685.560	2459258.240	0.99996301	564684.567	2459258.488	-------
13	565480.250	2459044.560	0.99996322	565479.308	2459044.794	-------
14	568667.420	2458338.000	0.99996407	568666.680	2458338.190	575.724
15	568728.460	2459345.450	0.99996408	568727.724	2459345.703	576.878
16	571682.620	2457637.330	0.99996489	571682.071	2457637.475	625.186
17	572958.520	2457220.200	0.99996525	572958.052	2457220.319	658.505
Original Cp 18 has been destroyed			---------	---------	---------	-------
19	576053.260	2456566.470	0.99996613	576052.989	2456566.547	659.900
20	577880.740	2455743.660	0.99996666	577880.585	2455743.685	626.865
21	580322.540	2455353.370	0.99996738	580322.540	2455353.370	677.568
22	582952.070	2455193.020	0.99996817	582952.237	2455193.010	688.928
Original Cp 23 has been destroyed			---------	---------	---------	-------
24	590858.430	2455023.020	0.99997062	590859.099	2455022.999	727.114
25	593042.580	2454447.940	0.99997133	593043.388	2454447.883	748.901
26	595178.440	2454058.310	0.99997203	595179.383	2454058.228	732.221

BENCHMARKS

		ELEVATION
~~No. 500 Sta. 6781+18.803 161.128 Lt. Y: 568688.781 X:2458216.869~~	~~Fd "X" on bolt East side conc structure =CH2MHill BM500 EL=575.797~~	~~575.796~~
~~No. 501 Sta. 6787+97.906 311.471 Rt. Y: 569456.791 X:2458524.591~~	~~Fd CHISELED "X" IN S.W. FLANGE BOLT IN Fire Hyd (FD Good Cond) =CH2MHill BM501 EL 568.923~~	~~568.926~~
~~No. 502 Sta. 6791+49.022 38.344 Rt. Y: 569737.468 X:2458179.480~~	~~FD CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" FHYD (Leaning) =CH2MHill BM502 EL 575.247~~	~~575.247~~
~~No. 503 Sta. 6801+93.632 255.412 Rt. Y: 570811.071 X:2458144.197~~	~~FD CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" FHYD (Leaning) =CH2MHill BM503 EL 580.282~~	580.282
No. 504 Sta. 6809+00.595 189.731 Rt. Y: 571477.720 X:2457880.301	Fd "X" IN West side conc Luminaire Base =CH2MHill BM504 EL 602.945	602.920
No. 505 Sta. 6810+90.128 75.269 Rt. Y: 571625.939 X:2457715.814	Fd Square on NE Barrier Rail of NBL I-74 Bridge over Kimberly Rd =CH2MHill BM505 EL 621.93	621.906
No. 506 Sta. 6822+67.473 84.778 Rt. Y: 572755.496 X:2457383.651	Fd "X" on West side Cir conc Lum Pole Base =CH2MHill BM506 EL 655.749	655.710
~~No. 507 Sta. 6834+05.076 68.762 Rt. Y: 573843.513 X:2457063.995~~	~~Not Found at given coordinates presumed destroyed CH2M Hill BM~~	~~668.133~~
No. 508 Sta. 6842+55.549 62.831 Rt. Y: 574668.276 X:2456866.038	Fd "X" on East side conc Lum Pole Base =CH2MHill BM508 EL 671.518	671.448
No. 509 Sta. 6851+85.690 59.105 Rt. Y: 575576.663 X:2456666.015	Fd IDOT BM Button on NE Barrier Rail of NBL Brg over Middle Rd =CH2MHill BM509 EL 677.578	677.516
No. 510 Sta. 6861+43.895 80.14 Rt. Y: 576518.994 X:2456482.513	Fd "X" on E Side conc Luminaire Base at AB Sta 2170+00+/- =CH2MHill BM510 EL 645.087	645.044
No. 511 Sta. 6868+67.531 100.64 Rt. Y: 577225.907 X:2456261.874	Fd DOT BM Button on NE Barrier Rail of NBL Brg over Duck Creek =CH2MHill BM511 EL 638.647	638.614
No. 512 Sta. 6882+39.229 73.974 Rt. Y: 578444.501 X:2455659.981	Fd "X" on Conc Base of W post of sign "exit 2" =CH2MHill BM512 EL 631.703	631.676
No. 513 Sta. 6892+34.511 84.403 Rt. Y: 579410.375 X:2455508.787	Fd "X" on top east end 48" RCP =CH2MHill BM513 EL 649.572 125' +/- N. of MM 3.1	649.537
No. 514 Sta. 6901+57.825 60.026 Rt. Y: 580327.480 X:2455399.144	Fd DOT BM Button on SE Barrier Rail of NBL Brg over Spruce Hills Rd =CH2MHill BM514 EL 781.022	680.944
No. 515 Sta. 6912+23.757 330.731 Rt. Y: 581413.875 X:2455570.133	Fd CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" =CH2MHill BM515 EL 683.991	683.924
No. 516 Sta. 6923+17.968 89.277 Lt. Y: 582468.666 X:2455061.538	Fd "X" on E side conc Lum Pole Base =CH2MHill BM516 EL 686.241	686.161
No. 518 Sta. 6934+40.127 101.985 Rt. Y: 583597.470 X:2455218.010	Fd "T" IN HDWL R.C.B. 2' from WHKS BM (#16589 Fd IHC inlet hdwl 4x5x175.9RCB)	668.280
~~No. 519 Sta. 6946+33.160 100.75 Lt. Y: 584785.834 X:2454989.491~~	~~Not Found at given coordinates presumed destroyed CH2M Hill BM~~	~~667.743~~
No. 520 Sta. 6956+41.991 87.183 Rt. Y: 585798.497 X:2455155.537	Fd "X" in Sign Base =CH2MHill BM520 EL 746.765	646.698
No. 521 Sta. 6963+09.707 63.203 Rt. Y: 586465.537 X:2455117.105	Fd "X" on Lum Base =CH2MHill BM521 EL 660.130	660.059
~~No. 522 Sta. 6974+87.011 80.483 Rt. Y: 587642.940 X:2455108.891~~	~~Not Found at given coordinates presumed destroyed CH2M Hill BM~~	~~679.620~~
No. 523 Sta. 6988+24.965 63.13 Rt. Y: 588980.204 X:2455062.572	Fd "X" on Lum Base =CH2MHill BM523 EL 700.669	700.594
No. 524 Sta. 7000+10.296 63.463 Rt. Y: 590165.265 X:2455037.241	Fd "X" on Lum Base =CH2MHill BM524 EL 719.358	719.265
No. 525 Sta. 7010+07.602 91.313 Lt. Y: 591158.986 X:2454860.908	Fd "X" in Sign Base =CH2MHill BM525 EL 727.605	727.494
No. 526 Sta. 7019+95.564 98.784 Lt. Y: 592123.621 X:2454768.643	FD "X" on east side sign base =CH2MHill BM526 EL 731.873	731.766
No. 527 Sta. 7033+00.191 150.317 Rt. Y: 593441.396 X:2454656.773	Fd RR Spk in w. side fence post =CH2MHill BM527 EL 738.163	738.026
No. 528 Sta. 7039+00.326 82.286 Rt. Y: 593998.080 X:2454422.481	Fd "X" in Sign Base =CH2MHill BM528 EL 733.087	732.973
No. 529 Sta. 7028+71.801 105.188 Rt. Y: 593017.636 X:2454734.117	Fd IHC BM on SE Cor 67th St. Bridge =CH2MHill BM529 EL 751.48	751.346
~~No. 533 Sta. 6975+42.730 2347.104 Rt. Y: 587747.722 X:2457373.774~~	~~Not Found at given coordinates presumed destroyed CH2M Hill BM City of Davenport B.M. BRASS Monu~~	~~711.250~~
No. 556 Sta. 6975+74.064 2934.409 Lt. Y: 587664.694 X:2452092.820	Fd City of Davenport conc pad with disk (Good Cond)-Previous El=707.745	707.691
~~No. 558 Sta. 6976+23.550 1683.44 Lt. Y: 587741.254 X:2453342.425~~	~~Not Found at given coordinates presumed destroyed BM from 53rd St Survey~~	~~709.391~~
No. 564 Sta. 6976+24.653 431.761 Rt. Y: 587788.155 X:2455457.106	Fd "X" on S side Lum Pole Base	710.632
No. 565 Sta. 6934+41.901 101.993 Rt. Y: 583599.244 X:2455217.979	Fd IHC BM on inlet hdwl 4x5x175.9 RCB Note:This BM is 2' from CH2MHill #518	668.319
No. 568 Sta. 6976+08.417 131.511 Rt. Y: 587765.422 X:2455157.278	Fd IDOT Brass Button on NE BRG/SWK Barrier Rail	708.326
No. 569 Sta. 6976+03.140 118.937 Lt. Y: 587754.724 X:2454907.003	Fd IDOT Brass Button on NW BRG/SWK Barrier Rail	703.120
No. 570 Sta. 6975+27.062 133.539 Rt. Y: 587684.130 X:2455161.067	Fd IDOT Brass Button on SE BRG/SWK Barrier Rail (New BM on new Brg Addition)	708.439
No. 571 Sta. 6848+78.456 59.872 Lt. Y: 575251.235 X:2456614.586	BM Established in 2011 DOT BM Button on SW Barrier Rail of SBL Brg over Middle Rd	683.959
No. 572 Sta. 6865+94.623 31.589 Lt. Y: 576920.853 X:2456245.148	BM Established in 2011 DOT BM Button on SW Barrier Rail of SBL Brg over Duck Creek	638.686
No. 573 Sta. 6875+20.239 245.376 Rt. Y: 577875.339 X:2456080.499	BM Established in 2011 (X) on SW Bolt fire hyd Jct Hawthorne Dr & Cypress Drive =Plan BM 317 Plan Elev=625.21 (I-74-1(5)2**01--82 Fd on sheet 4 of 8	624.321
No. 574 Sta. 6893+06.470 271.761 Rt. Y: 579499.349 X:2455688.689	BM Established in 2011 (x) on NW bolt of Fire Hyd Plan Elev =649.36 =Plan BM 320"A" (I-74-1(5)2--01--82 Fd on sheet 47A	649.518
No. 575 Sta. 6904+13.118 741.405 Lt. Y: 580507.579 X:2454577.542	BM Established in 2011 IHC BM on inlet Hdwl 4x4 RCB Plan Elev =654.42 =Plan BM 423"A" (I-74-1(5)2--01--82 Fd on sheet 47A	653.550
No. 576 Sta. 6955+96.514 74.251 Rt. Y: 585752.751 X:2455143.593	BM Established in 2011 =Plan BM 328"A" Plan calls for IHC This Survey Fd "X" on Inlet end 6x6 RCB Plan Plan Elev=647.61 (I-74-1(6)3**01-82 Fd on sheet 30	646.600
No. 577 Sta. 6833+94.859 132.343 Rt. Y: 573849.206 X:2457128.132	BM Established in 2011 Fd PK nail in SE Barrier Rail of New bridge on Lincoln	688.859
No. 578 Sta. 6835+04.164 126.319 Lt. Y: 573892.486 X:2456850.685	BM Established in 2011 Fd PK nail in NW Barrier Rail of New bridge on Lincoln	689.703
No. 600 Sta. 6904+02.998 796.519 Lt. Y: 580492.406 X:2454523.600	Fd x on NE Bolt of lum pole base (Good Cond) equals SAP 0576 BM601 ZC=657.159	657.067

MISCELLANEOUS LOCATIONS

BENCHMARKS along Kimberly Rd

		ELEVATION
No. 566 Sta. 7293+72.752 85.356 Lt. Y: 580808.174 X:2452917.397	IHC BM on Inlet Hdwl of Twin 14 x 14 RCB equals SAP 0576 BM505 ZC=632.189	632.115
No. 567 Sta. 7294+25.010 66.073 Rt. Y: 580650.413 X:2452889.591	"X" on Outlet Hdwl 30 x 15 Conc Arch equals SAP 0576 BM506 equals ZC=634.892	634.811
No. 601 Sta. 7296+53.544 145.968 Lt. Y: 580724.974 X:2453192.177	Fd x on East bolt of lum base (Good Cond) equals SAP 0576 BM601 ZC=637.567	637.475

BENCHMARKS along Spruce Hills

		ELEVATION
No. 600 Sta. 7310+89.997 68.872 Lt. Y: 580492.406 X:2454523.600	Fd x on NE Bolt of lum pole base (Good Cond) equals SAP 0576 BM601 ZC=657.159	657.067
No. 575 Sta. 7311+44.092 83.488 Lt. Y: 580507.579 X:2454577.542	BM Established in 2011 IHC BM on inlet Hdwl 4x4 RCB Plan Elev =654.42 =Plan BM 423"A" (I-74-1(5)2--01--82 Fd on sheet 47A	653.550

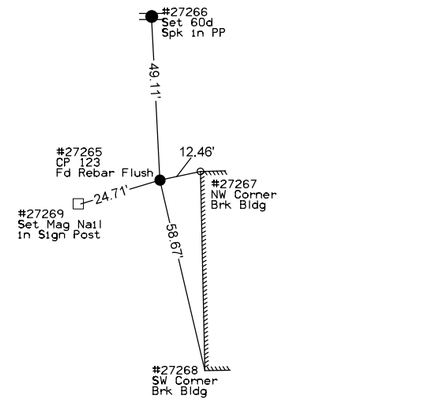
BENCHMARKS along 53rd Street

		ELEVATION
No. 556 Sta. 5101+39.040 46.77 Lt. Y: 587664.694 X:2452092.820	Fd City of Davenport conc pad with disk (Good Cond)-Previous El=707.745	707.691
No. 557 Sta. 5109+03.090 61.092 Rt. Y: 587591.784 X:2452860.855	Fd RR spk N side PP 53rd & Ent to Wendys -Previous El=700.401	700.342
No. 559 Sta. 5119+68.333 62.324 Lt. Y: 587757.826 X:2453921.509	Fd "X" SW Bolt F Hyd-Previous El=697.692	697.643
No. 560 Sta. 5125+32.940 112.763 Rt. Y: 587587.849 X:2454490.316	Fd "X" on E side Lum Pole Base @ SW Quad 53rd & SBL on Ramp to I-74 Previous El=687.000	686.934
No. 564 Sta. 5135+05.67 47.436 LT. Y: 587788.155 X:2455457.106	Fd "X" on S side Lum Pole Base Previous El=710.688	710.632
No. 563 Sta. 5141+77.716 50.554 Rt. Y: 587718.639 X:2456132.692	Fd RR spk S side PP-Previous El=714.911	714.865
No. 561 Sta. 5144+84.792 67.902 Lt. Y: 587849.961 X:2456434.490	Fd "X" on S Traffic Signal Base Previous El=710.934	710.882
No. 562 Sta. 5147+11.075 49.497 Rt. Y: 587742.225 X:2456665.530	Fd RR spk N side PP-Previous El=707.554	707.513

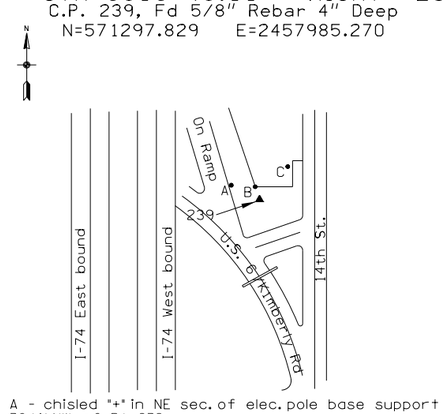
BENCHMARKS Outside Project Limits

		ELEVATION
No. 612 Sta. 6923+98.048 12492.508 Lt. Y: 581906.735 X:2442670.591	Fd "X" NE Cor Coc Base(=BM612 J Krieger 2007 Rd Survey ZC=680.814)=(BM612 2009 Kimberly Rd Survey ZC=680.884)	680.800
No. 999 Sta. 6826+44.943 15993.986 Lt. Y: 568672.694 X:2441824.208	Fd 60 spk in SWK crack near electrical access lid approx 500' NE of station "Davenport" the swk is along west side of Perry Street just north of E 4th St.	584.737

C.P. STA 6805+63.73 RIGHT 341.97
C.P. 123, Fd 5/8" Rebar Flush
N=571198.304 E=2458123.906

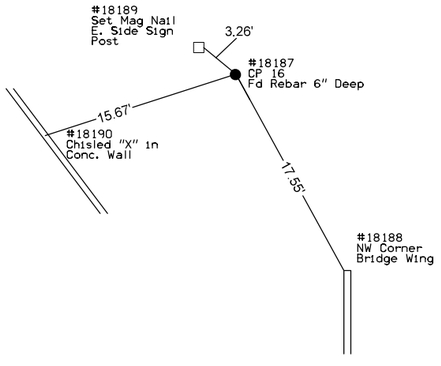


C.P. STA 6806+98.00 RIGHT 238.05
C.P. 239, Fd 5/8" Rebar 4" Deep
N=571297.829 E=2457985.270

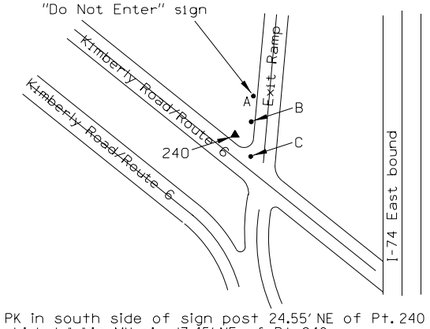


A - chisled "+" in NE sec. of elec. pole base support 30.14' NW of Pt. 239
B - chisled "+" in west side of fence post support 4.7' NW of Pt 239
C - PK in asphalt paving 17.87' NE of Pt 239

C.P. STA 6811+66.56 RIGHT 16.56
C.P. 16, Fd 5/8" Rebar 6" Deep
N=571682.071 E=2457637.475

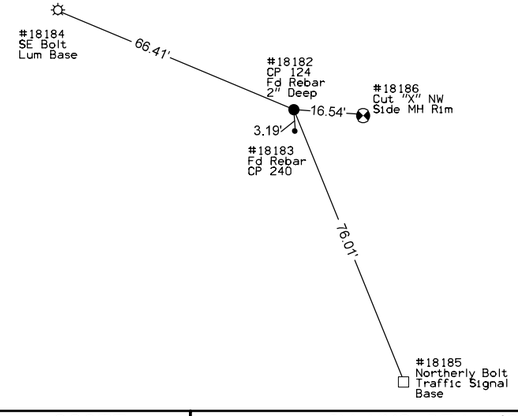


C.P. STA 6813+84.75 LEFT 284.22
C.P. 240, Fd 5/8" Rebar 2" Deep
N=571803.709 E=2457286.364

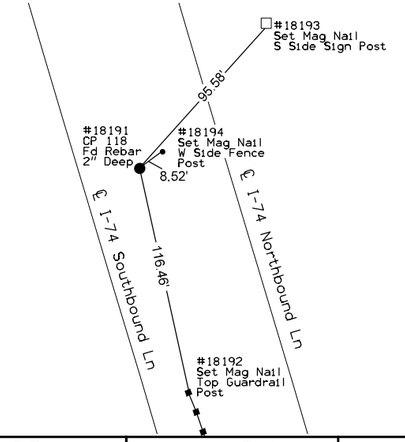


A - PK in south side of sign post 24.55' NE of Pt. 240
B - chisled "+" in MH rim 17.45' NE of Pt. 240
C - chisled "+" in MH rim 13.82' SE of Pt 240

C.P. STA 6813+87.86 LEFT 283.53
C.P. 124, Fd 5/8" Rebar 2" Deep
N=571806.885 E=2457286.125

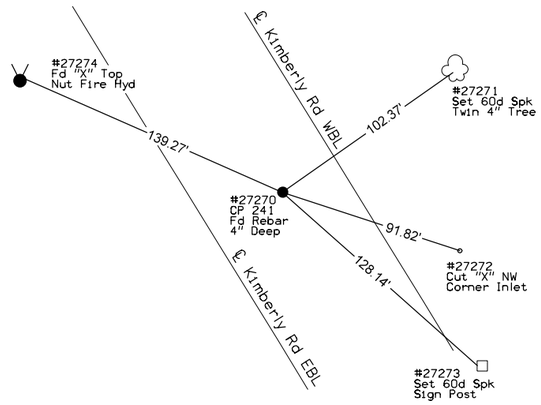


C.P. STA 6815+94.35 LEFT 6.56
C.P. 118, Fd 5/8" Rebar 2" Deep
N=572084.791 E=2457491.344

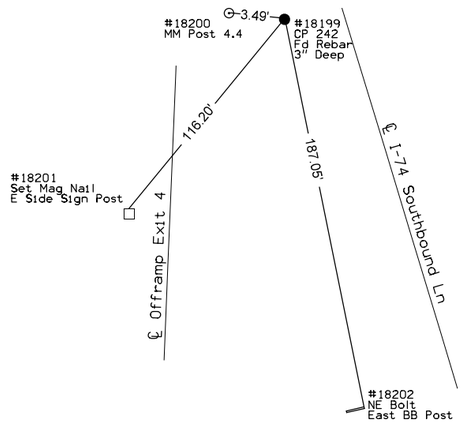


ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.4

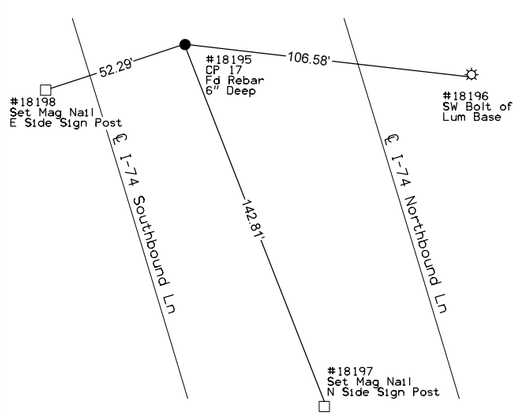
C.P. STA 6817+24.44 LEFT 676.03
C.P. 241, Fd 5/8" Rebar 4" Deep
N=572015.245 E=2456812.909



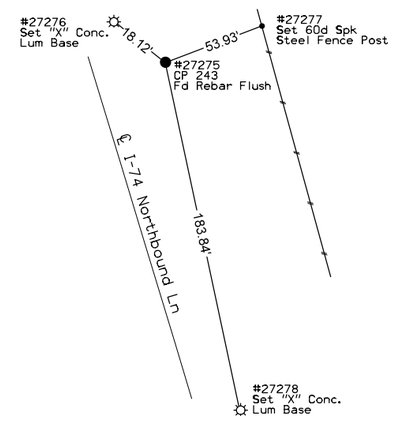
C.P. STA 6822+23.18 LEFT 63.92
C.P. 242, Fd 5/8" Rebar 3" Deep
N=572670.004 E=2457254.178



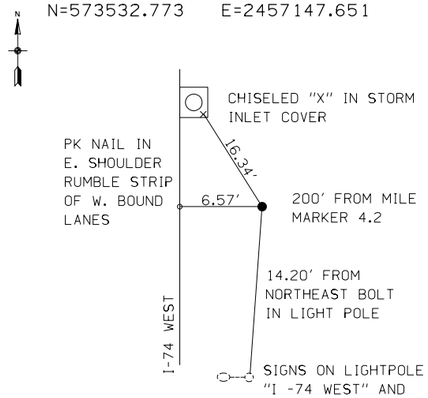
C.P. STA 6825+08.57 LEFT 13.59
C.P. 17, Fd 5/8" Rebar 6" Deep
N=572958.052 E=2457220.319



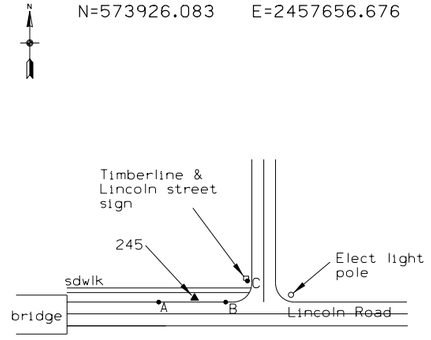
C.P. STA 6830+52.74 RIGHT 84.80
C.P. 243, Fd 5/8" Rebar Flush
N=573507.713 E=2457167.961



C.P. STA 6830+82.30 RIGHT 71.66
C.P. 117, Fd 5/8" Rebar Flush
N=573532.773 E=2457147.651

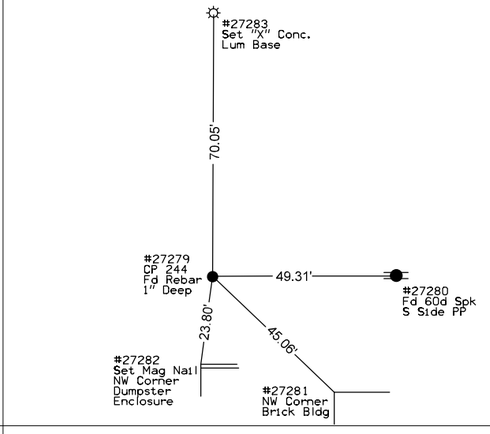


C.P. STA 6833+38.33 RIGHT 663.55
C.P. 245, Fd 5/8" Rebar Flush
N=573926.083 E=2457656.676

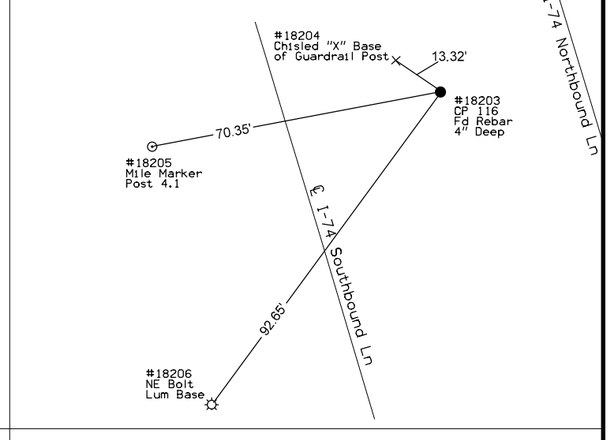


A - chisled "+" in top of curb 12.65' SW of Pt 245
B - chisled "+" in top of curb 6.77' SE of Pt 245
C - chisled "+" on sign support base 11.91' NE of Pt 245

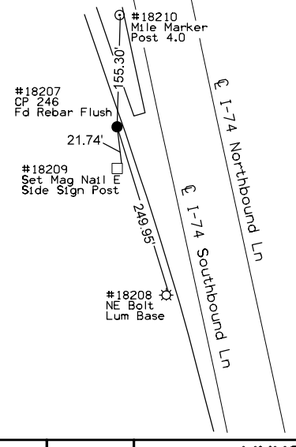
C.P. STA 6835+44.52 LEFT 618.90
C.P. 244, Fd 5/8" Rebar 1" Deep
N=573814.369 E=2456362.609



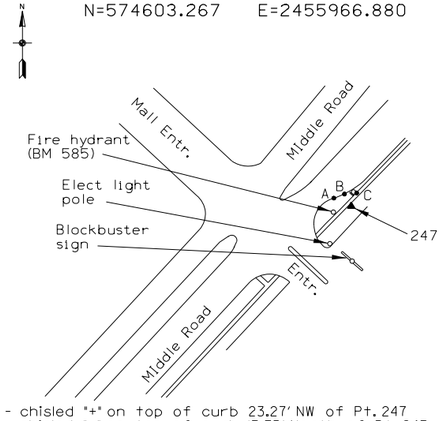
C.P. STA 6838+12.17 LEFT 8.42
C.P. 116, Fd 5/8" Rebar 4" Deep
N=574220.393 E=2456893.100



C.P. STA 6841+97.00 LEFT 102.14
C.P. 246, Fd 5/8" Rebar Flush
N=574576.214 E=2456717.144

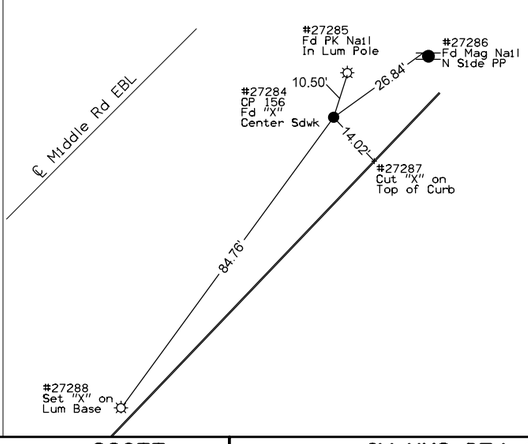


C.P. STA 6843+81.85 LEFT 829.78
C.P. 247, Fd 5/8" Rebar Flush
N=574603.267 E=2455966.880

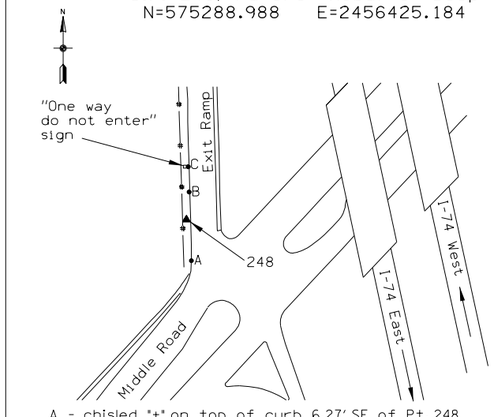


A - chisled "+" on top of curb 23.27' NW of Pt. 247
B - chisled "+" on top of curb 17.75' North of Pt. 247
C - PK in light pole base 37.42' NE of Pt 247

C.P. STA 6845+55.04 LEFT 586.64
C.P. 156, Fd "X" On Sidewalk
N=574823.895 E=2456167.973



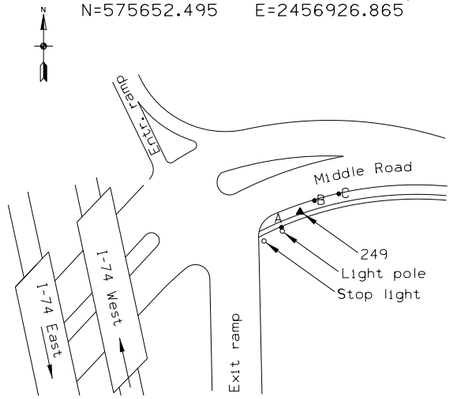
C.P. STA 6849+55.35 LEFT 237.03
C.P. 248, Fd 5/8" Rebar 6" Deep
N=575288.988 E=2456425.184



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

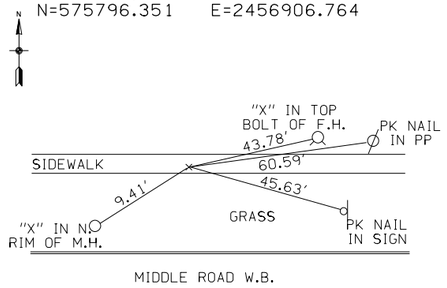
ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.5

C.P. STA 6852+04.74 RIGHT 330.09
C.P. 249, Fd 5/8" Rebar 2" Deep
N=575652.495 E=2456926.865



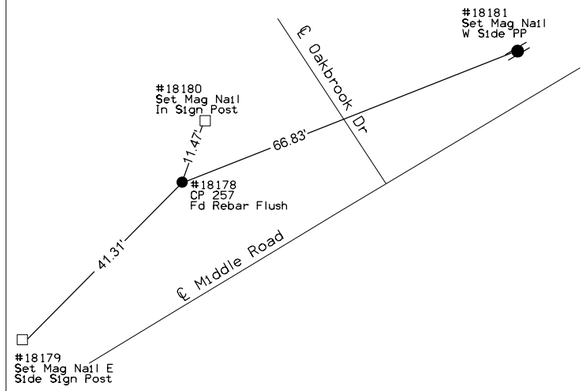
A - PK in light pole support base 16.23' SW of Pt. 249
B - chisled "+" on top of curb 6.0' NE of Pt. 249
C - chisled "+" on top of curb 10.45' NE of Pt 249

C.P. STA 6853+49.60 RIGHT 340.81
C.P. 157, Fd "X" On Sidewalk
N=575796.351 E=2456906.764

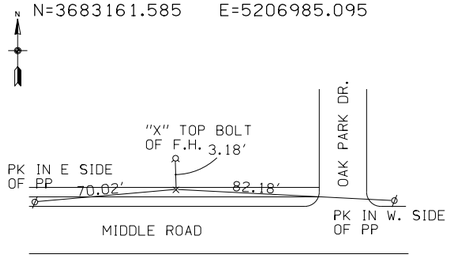


"X" CUT IN SIDEWALK
NORTH OF MIDDLE RD.
EAST OF I-74 SOUTH OF
CHURCH PARKING LOT

C.P. STA 6855+70.34 RIGHT 980.42
C.P. 257, Fd 5/8" Rebar Flush
N=576147.162 E=2457485.347

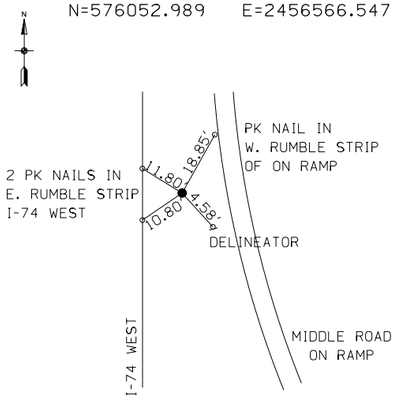


C.P. STA 6856+35.60 RIGHT 1511.93
C.P. 158, Fd "X" On Sidewalk
N=3683161.585 E=5206985.095



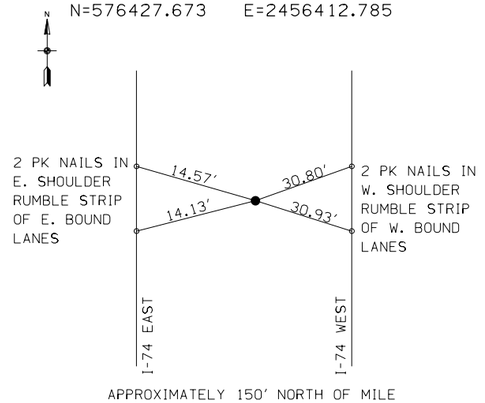
"X" CUT IN SIDEWALK
NORTH OF MIDDLE RD.

C.P. STA 6856+72.28 RIGHT 62.45
C.P. 19, Fd 5/8" Rebar Flush
N=576052.989 E=2456566.547



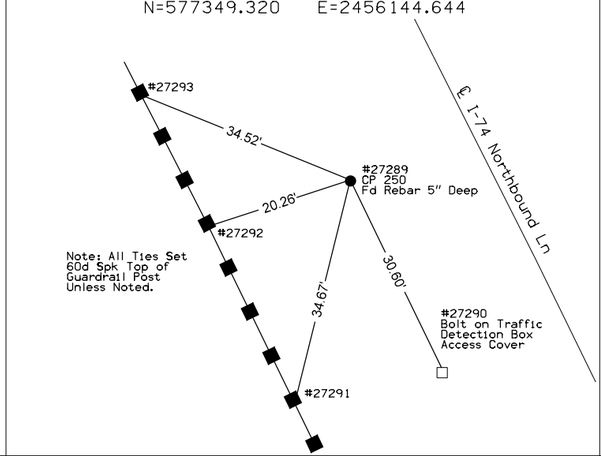
APPROXIMATELY 150' S.
OF MILE MARKER 3.7

C.P. STA 6860+71.06 LEFT 8.34
C.P. 115, Fd 5/8" Rebar Flush
N=576427.673 E=2456412.785



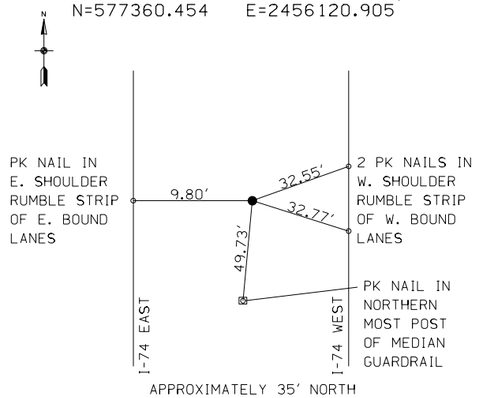
APPROXIMATELY 150' NORTH OF MILE
MARKER 3.7 NEAR EXIT 3 OFF RAMP

C.P. STA 6870+26.49 RIGHT 49.15
C.P. 250, Fd 5/8" Rebar 5" Deep
N=577349.320 E=2456144.644



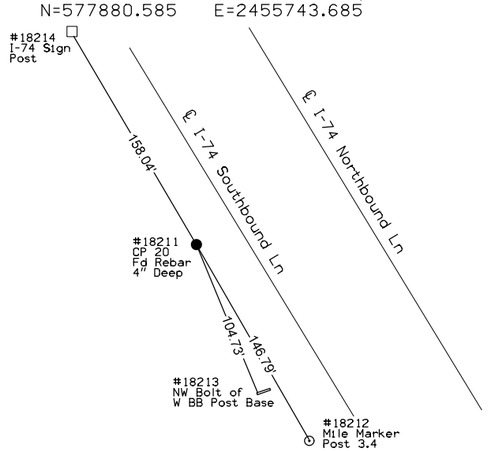
Note: All Ties Set
60d Spk Top of
Guardrail Post
Unless Noted.

C.P. STA 6870+47.07 RIGHT 33.17
C.P. 114, Fd 5/8" Rebar 6" Deep
N=577360.454 E=2456120.905

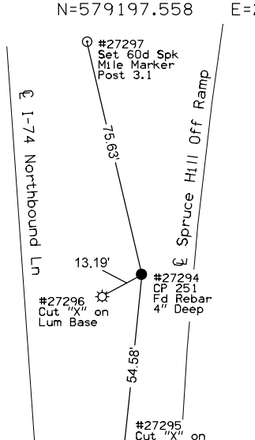


APPROXIMATELY 35' NORTH
OF MILE MARKER 3.5

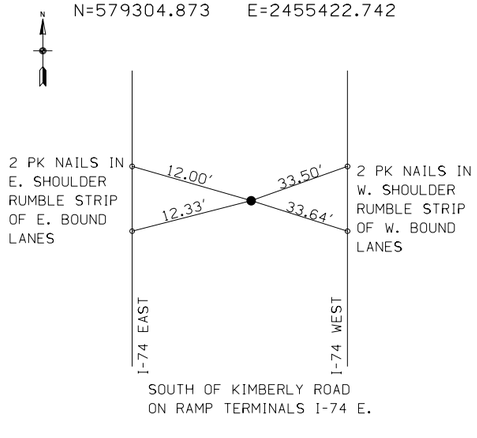
C.P. STA 6876+81.07 LEFT 52.62
C.P. 20, Fd 5/8" Rebar 4" Deep
N=577880.585 E=2455743.685



C.P. STA 6890+20.99 RIGHT 78.88
C.P. 251, Fd 5/8" Rebar 4" Deep
N=579197.558 E=2455523.116

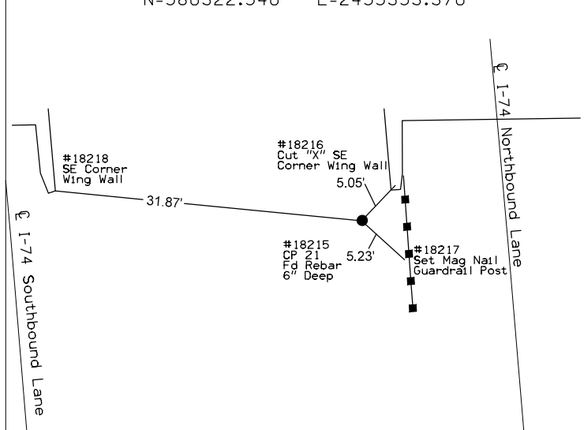


C.P. STA 6891+37.42 LEFT 11.03
C.P. 112, Fd 5/8" Rebar Flush
N=579304.873 E=2455422.742



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

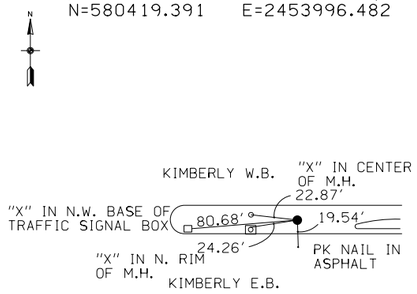
C.P. STA 6901+57.14 RIGHT 13.99
C.P. 21, Fd 5/8" Rebar 6" Deep
N=580322.540 E=2455353.370



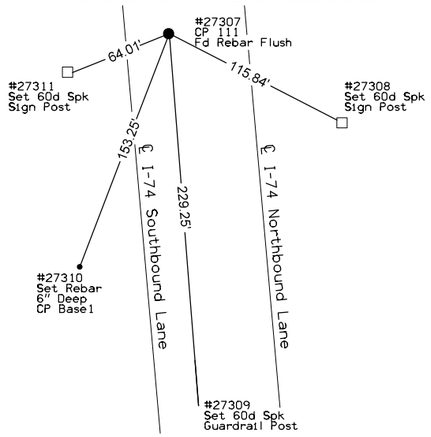
ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.6

8:44:22 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-G.sht

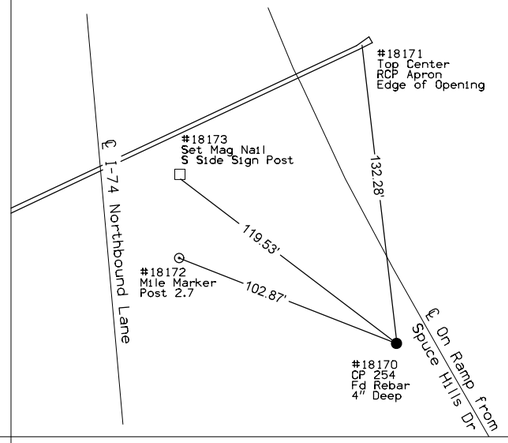
C.P. STA 6903+79.03 LEFT 1328.13
C.P. 153, Fd 5/8" Rebar W/ Alum. Cap 6" Deep
N=580419.391 E=2453996.482



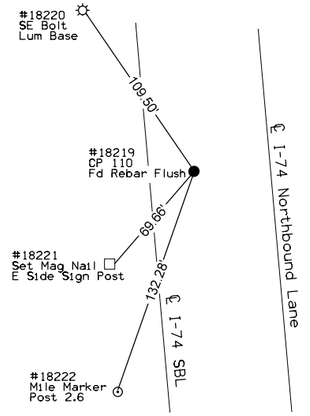
C.P. STA 6908+96.34 LEFT 10.08
C.P. 111, Fd 5/8" Rebar Flush
N=581056.349 E=2455261.055



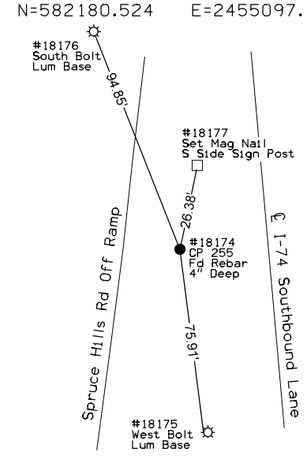
C.P. STA 6911+61.86 RIGHT 159.71
C.P. 254, Fd 5/8" Rebar 4" Deep
N=581336.428 E=2455405.564



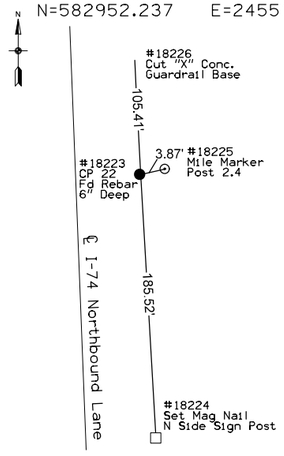
C.P. STA 6918+58.74 LEFT 13.12
C.P. 110, Fd 5/8" Rebar Flush
N=582014.527 E=2455169.727



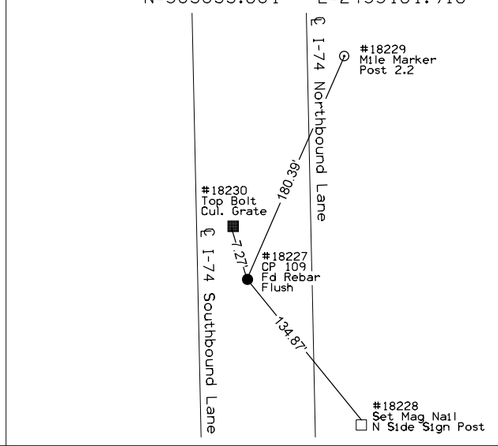
C.P. STA 6920+29.49 LEFT 72.47
C.P. 255, Fd 5/8" Rebar 4" Deep
N=582180.524 E=2455097.140



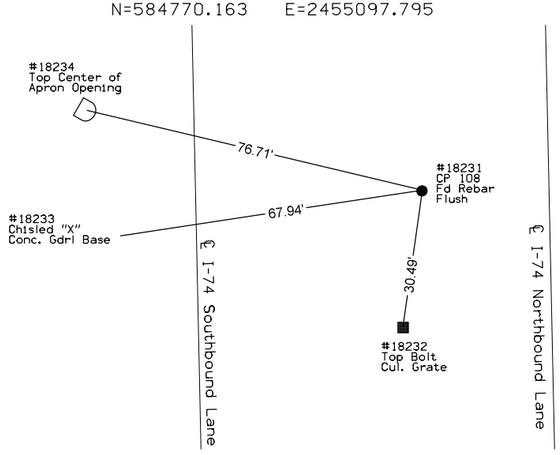
C.P. STA 6927+95.16 RIGHT 62.63
C.P. 22, Fd 5/8" Rebar 6" Deep
N=582952.237 E=2455193.010



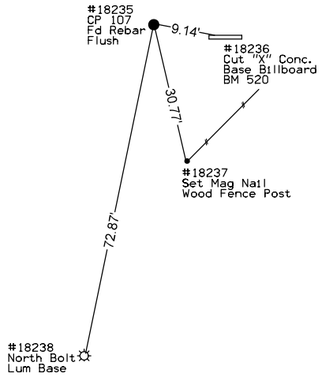
C.P. STA 6936+78.20 LEFT 8.99
C.P. 109, Fd 5/8" Rebar Flush
N=583833.081 E=2455101.910



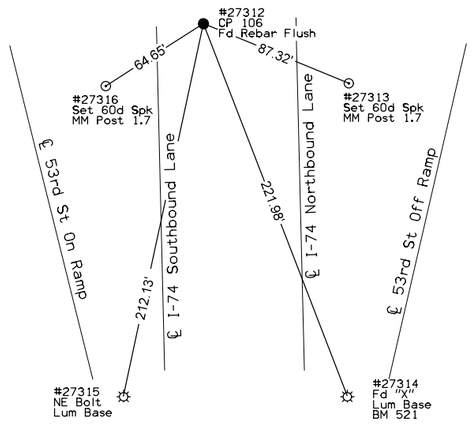
C.P. STA 6946+15.15 RIGHT 7.19
C.P. 108, Fd 5/8" Rebar Flush
N=584770.163 E=2455097.795



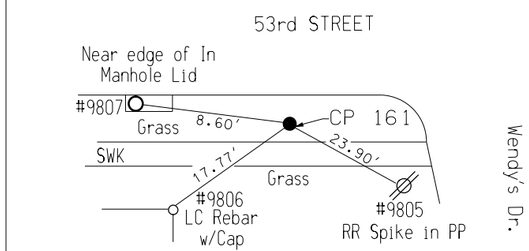
C.P. STA 6956+43.90 RIGHT 78.24
C.P. 107, Fd 5/8" Rebar Flush
N=585800.209 E=2455146.555



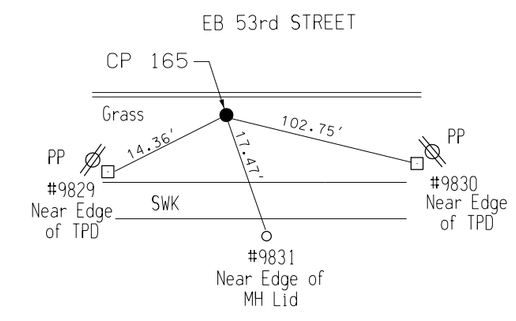
C.P. STA 6965+18.44 LEFT 12.32
C.P. 106, Fd 5/8" Rebar Flush
N=586672.590 E=2455037.086



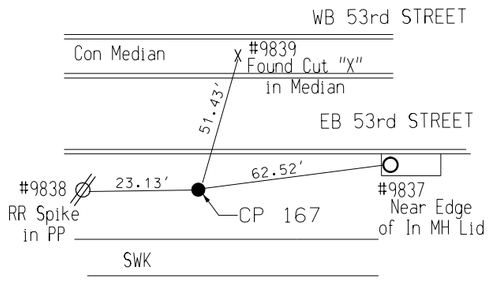
C.P. STA 6974+95.93 LEFT 2188.07
C.P. 161, Fd 5/8" Rebar 6" Deep
N=587602.742 E=2452840.672



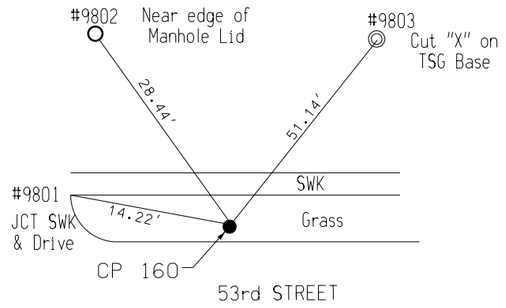
C.P. STA 6975+40.60 RIGHT 998.60
C.P. 165, Fd 5/8" Rebar 2" Deep
N=587716.390 E=2456025.627



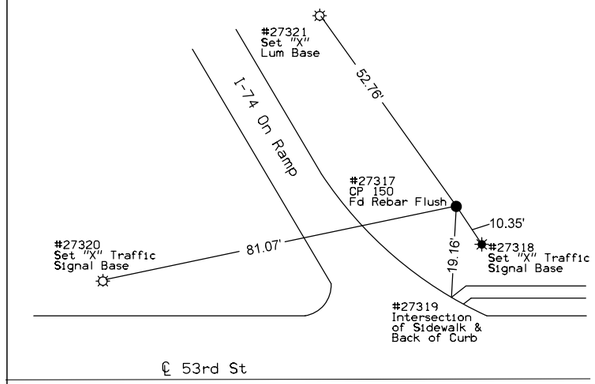
C.P. STA 6975+52.11 RIGHT 1662.05
C.P. 167, Fd 5/8" Rebar 2" Deep
N=587742.271 E=2456688.676



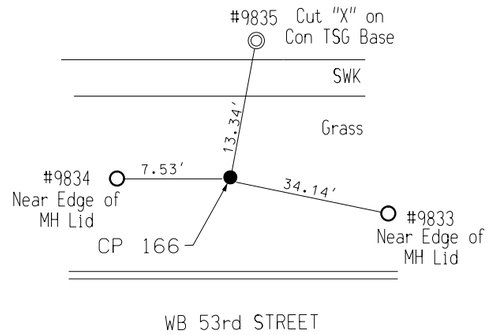
C.P. STA 6975+70.06 LEFT 2804.40
C.P. 160, Fd 5/8" Rebar 6" Deep
N=587663.506 E=2452222.884



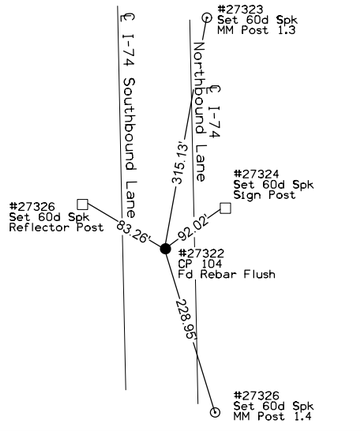
C.P. STA 6976+44.37 RIGHT 573.00
C.P. 150, Fd 5/8" Rebar Flush
N=587810.926 E=2455597.884



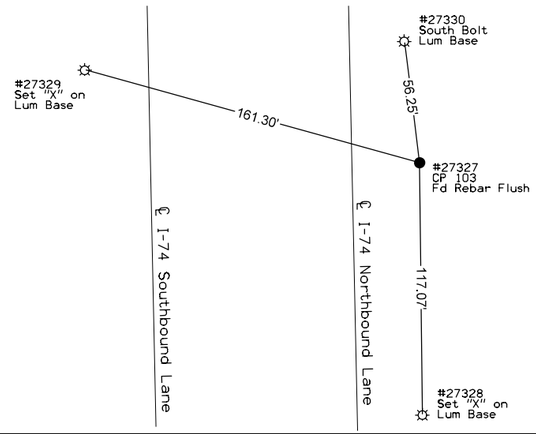
C.P. STA 6976+51.94 RIGHT 1412.05
C.P. 166, Fd 5/8" Rebar 2" Deep
N=587836.658 E=2456436.574



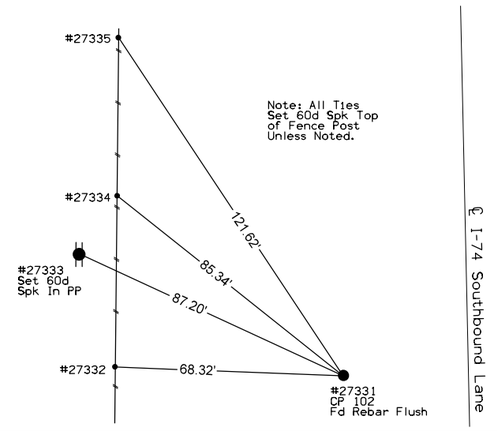
C.P. STA 6982+84.79 RIGHT 4.28
C.P. 104, Fd 5/8" Rebar Flush
N=588438.877 E=2455015.428



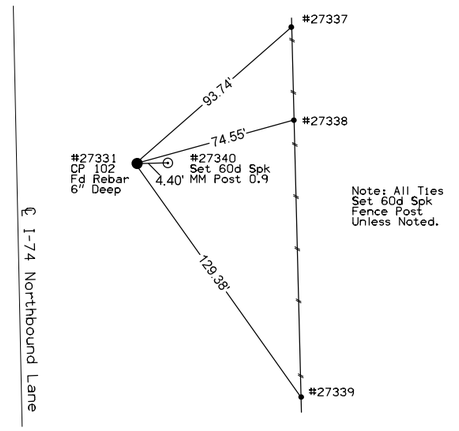
C.P. STA 6992+48.29 RIGHT 78.52
C.P. 103, Fd 5/8" Rebar Flush
N=589403.767 E=2455068.788



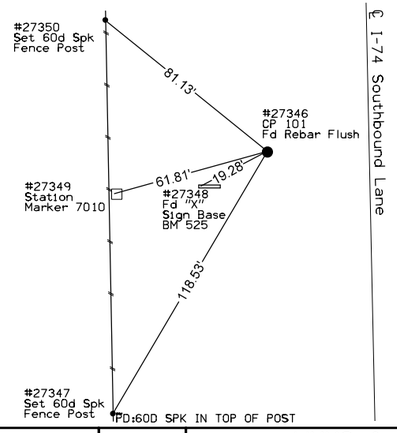
C.P. STA 7001+79.21 LEFT 70.50
C.P. 102, Fd 5/8" Rebar Flush
N=590331.233 E=2454899.652



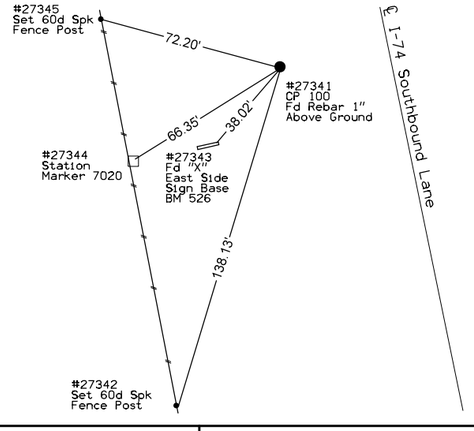
C.P. STA 7007+04.28 RIGHT 64.25
C.P. 24, Fd 5/8" Rebar 6" Deep
N=590859.099 E=2455022.999



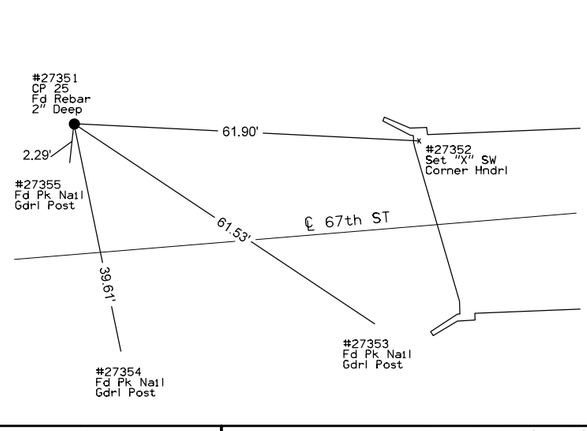
C.P. STA 7010+14.55 LEFT 73.33
C.P. 101, Fd 5/8" Rebar Flush
N=591166.323 E=2454878.741



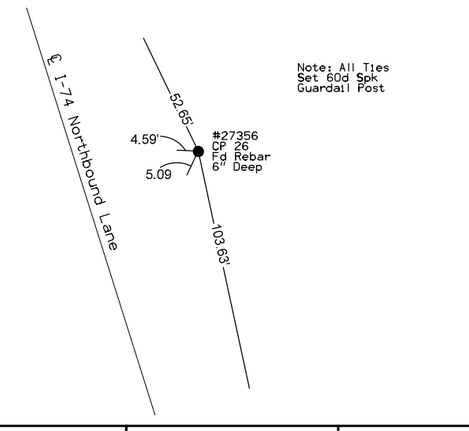
C.P. STA 7020+19.32 LEFT 68.71
C.P. 100, Fd 5/8" Rebar 1" Above Ground
N=592152.498 E=2454793.368



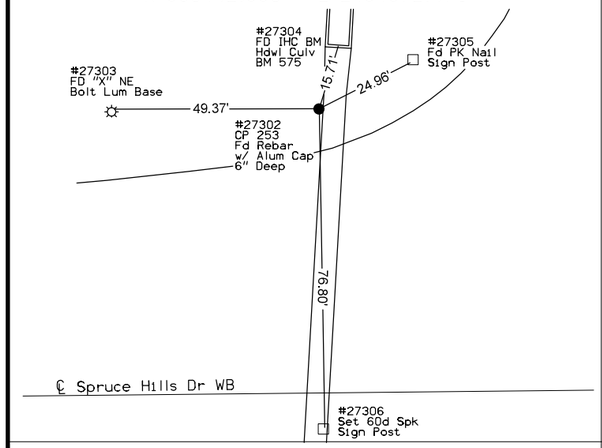
C.P. STA 7029+77.12 LEFT 162.21
C.P. 25, Fd 5/8" Rebar 2" Deep
N=593043.388 E=2454447.883



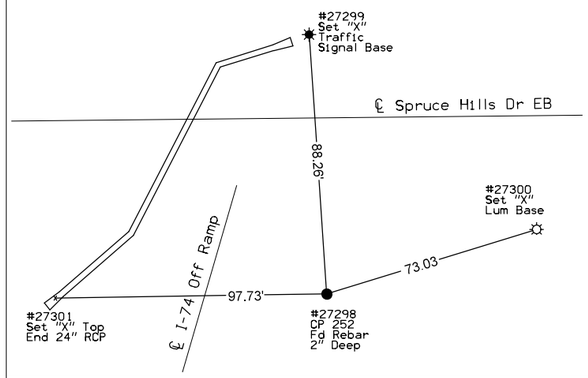
C.P. STA 7051+36.40 RIGHT 65.46
C.P. 26, Fd 5/8" Rebar 6" Deep
N=595179.383 E=2454058.228



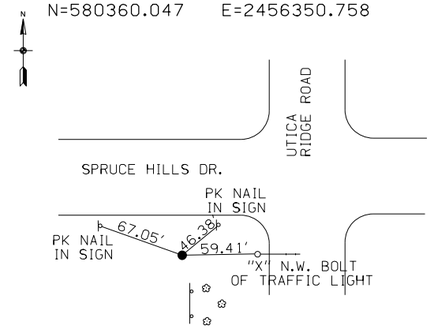
C.P. STA 7311+39.37 LEFT 68.51
C.P. 253, Fd 5/8" Rebar W/ Alum Cap 6" Deep
N=580492.550 E=2454572.971



C.P. STA 7324+99.56 RIGHT 87.97
C.P. 252, Fd 5/8" Rebar 2" Deep
N=580350.094 E=2455934.705



C.P. STA 7329+18.19 RIGHT 82.06
C.P. 154, Fd 5/8" Rebar Flush
N=580360.047 E=2456350.758



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

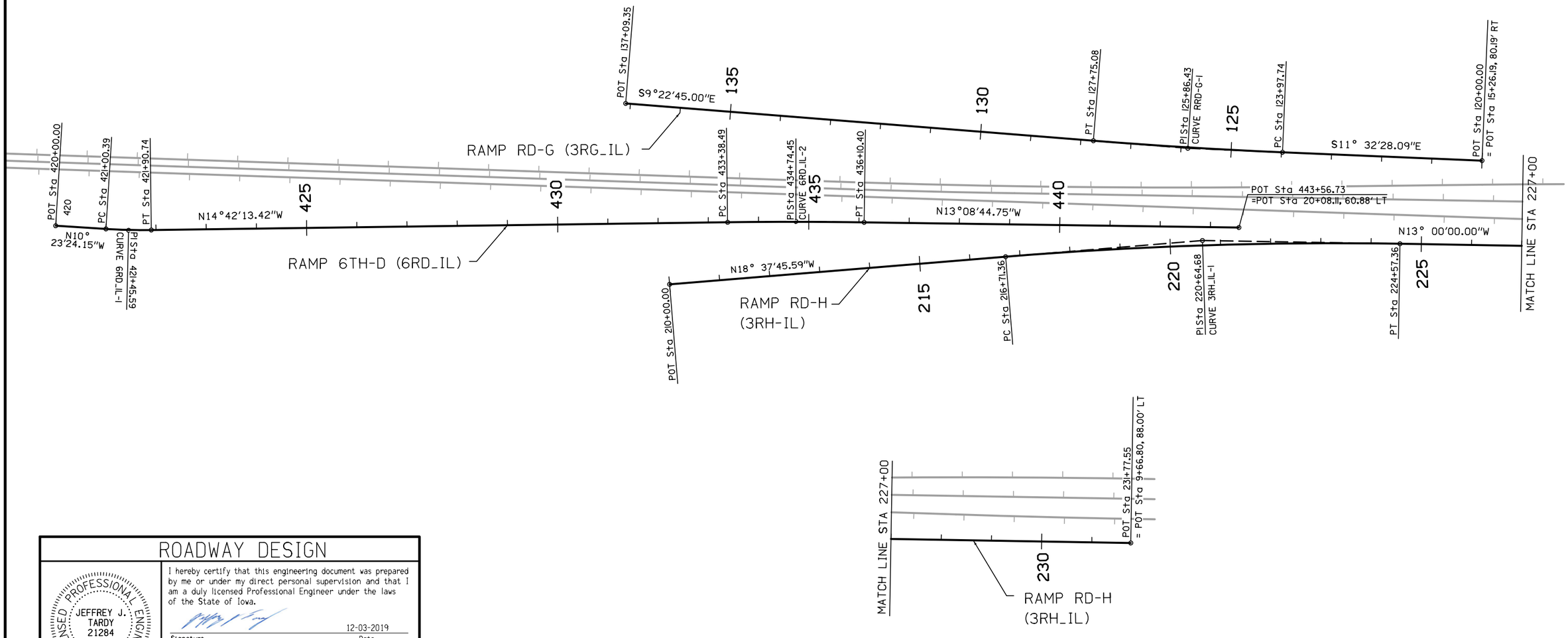
ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.9	

Curve 6RD_IL-1 (6TH-D)
PI STA. = 421+45.59
△ = 4° 18′ 49.27″ (LT)
D = 4° 46′ 28.73″
R = 1,200.00′
T = 45.19′
L = 90.35′
E = 0.85′

Curve 6RD_IL-2 (6TH-D)
PI STA. = 434+74.45
△ = 1° 33′ 28.68″ (RT)
D = 0° 34′ 22.65″
R = 10,000.00′
T = 135.97′
L = 271.92′
E = 0.92′

Curve RRD-G-1 (RD-G)
PI STA. = 125+86.43
△ = 2° 09′ 43.09″ (RT)
D = 0° 34′ 22.65″
R = 10,000.00′
T = 188.69′
L = 377.33′
E = 1.78′

Curve 3RH_IL-1 (RD-H)
PI STA. = 220+64.68
△ = 5° 37′ 45.59″ (RT)
D = 0° 42′ 58.31″
R = 8,000.00′
T = 393.32′
L = 786.00′
E = 9.66′



ROADWAY DESIGN

LICENSED PROFESSIONAL ENGINEER
JEFFREY J. TARDY
21284
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.

12-03-2019
Signature Date

Jeffrey J. Tardy
Printed or Typed Name

My license renewal date is December 31, 21

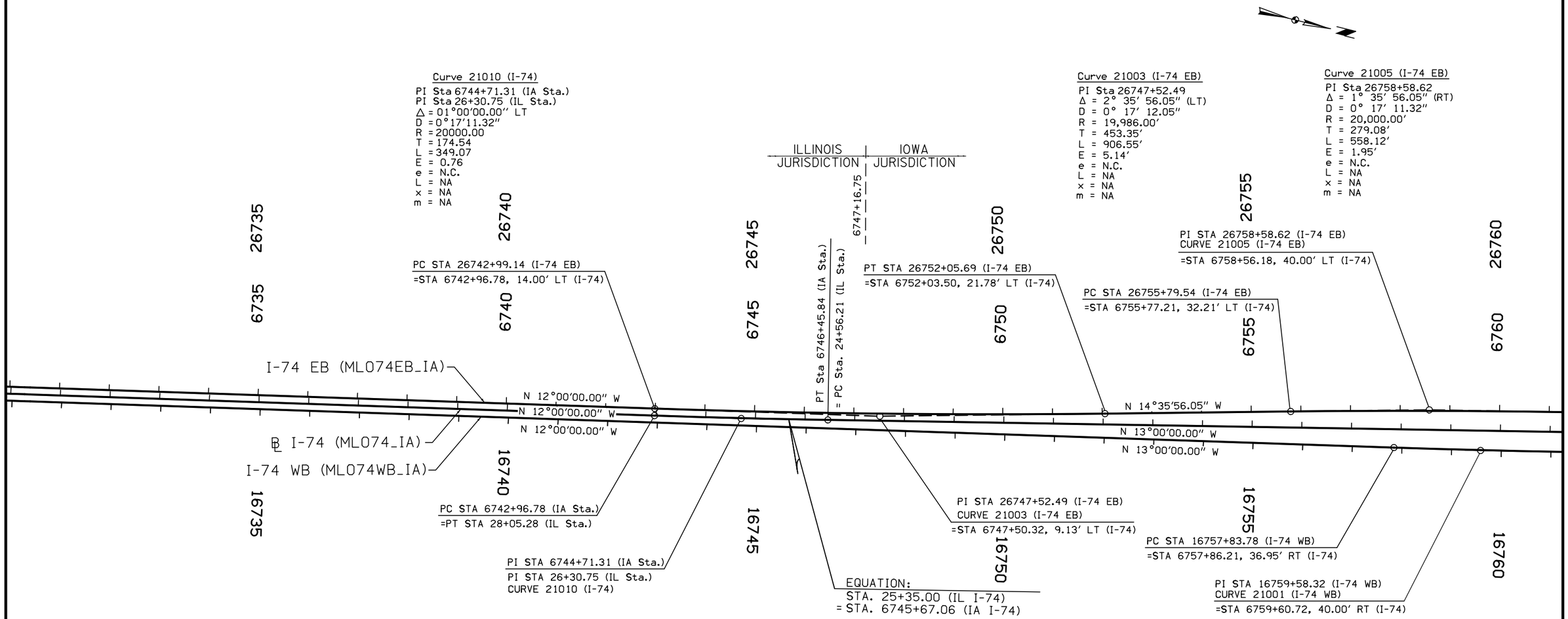
Pages or sheets covered by this seal: A.1-A.2, G.10-G.17, G.19-G.22, G.24, U.6-U.9

0 100 FEET

ALIGNMENTS
Illinois Ramps

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **G.10**

12:24:59 PM untitled c:\pwise_work\do_not_delete\dms04767\82074206-AB-G-01.sht.sht



FOR RAMPS RD-H, RD-G 6TH-C, AND 6TH-D, REFER TO ILLINOIS CONTRACT 64E26

ALIGNMENTS
I-74 Mainline

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.11

1:15:38 PM untitled c:\pwise_work\do_not_delete\dms04767\82074206-AB-G-01.sht.sht

Curve SWTRAIL-1 (LEVEE CONNECTION)
PI Sta 101+31.50
△ = 111°13′ 23.59″ RT
D = 63°39′ 43.12″
R = 90.00
T = 131.50
L = 174.71
E = 69.35
e = N.C.
L = NA
x = NA
m = NA

Curve SWTRAIL-2 (LEVEE CONNECTION)
PI Sta 102+08.44
△ = 87°53′ 02.91″ RT
D = 163°42′ 08.02″
R = 35.00
T = 33.73
L = 53.69
E = 13.61
e = N.C.
L = NA
x = NA
m = NA

Curve SWTRAIL-3 (LEVEE CONNECTION)
PI Sta 102+37.20
△ = 38°47′ 21.78″ RT
D = 229°10′ 59.23″
R = 25.00
T = 8.80
L = 16.93
E = 1.50
e = N.C.
L = NA
x = NA
m = NA

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

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

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

I-74 EB (ML074EB_IA)

I-74 WB (ML074WB_IA)

℄ I-74 (ML074_IA)

PROPOSED LEVEE CONNECTION (SWTRAIL)

PC Sta 100+00.00

POT Sta 200+00.00

PI Sta 101+31.50 CURVE SWTRAIL-1 (LEVEE CONNECTION)

PCC Sta 101+74.71

PI Sta 102+08.44 CURVE SWTRAIL-2 (LEVEE CONNECTION)

PT Sta 102+45.32

PCC Sta 102+28.39

PI Sta 102+37.20 CURVE SWTRAIL-3 (LEVEE CONNECTION)

PI Sta 205+06.06

PC Sta 210+06

N 13°00′00.00″ W

N 13°00′00.00″ W

N 13°00′00.00″ W

80′

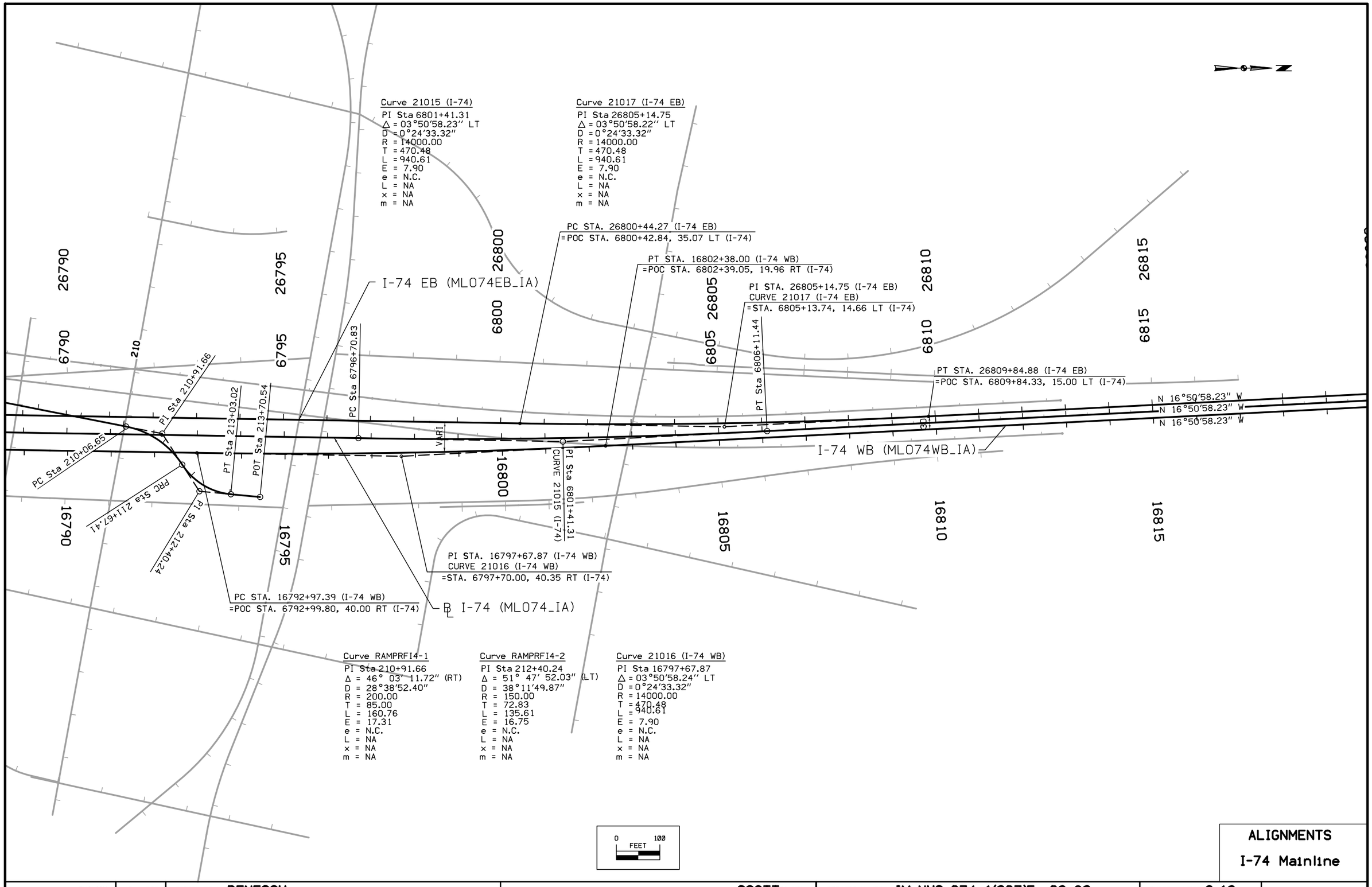
0 FEET 100

ALIGNMENTS

I-74 Mainline

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.12

1:15:43 PM untitled c:\pwise_work\do_not_delete\dms04767\82074206-AB-G-01.sht.sht

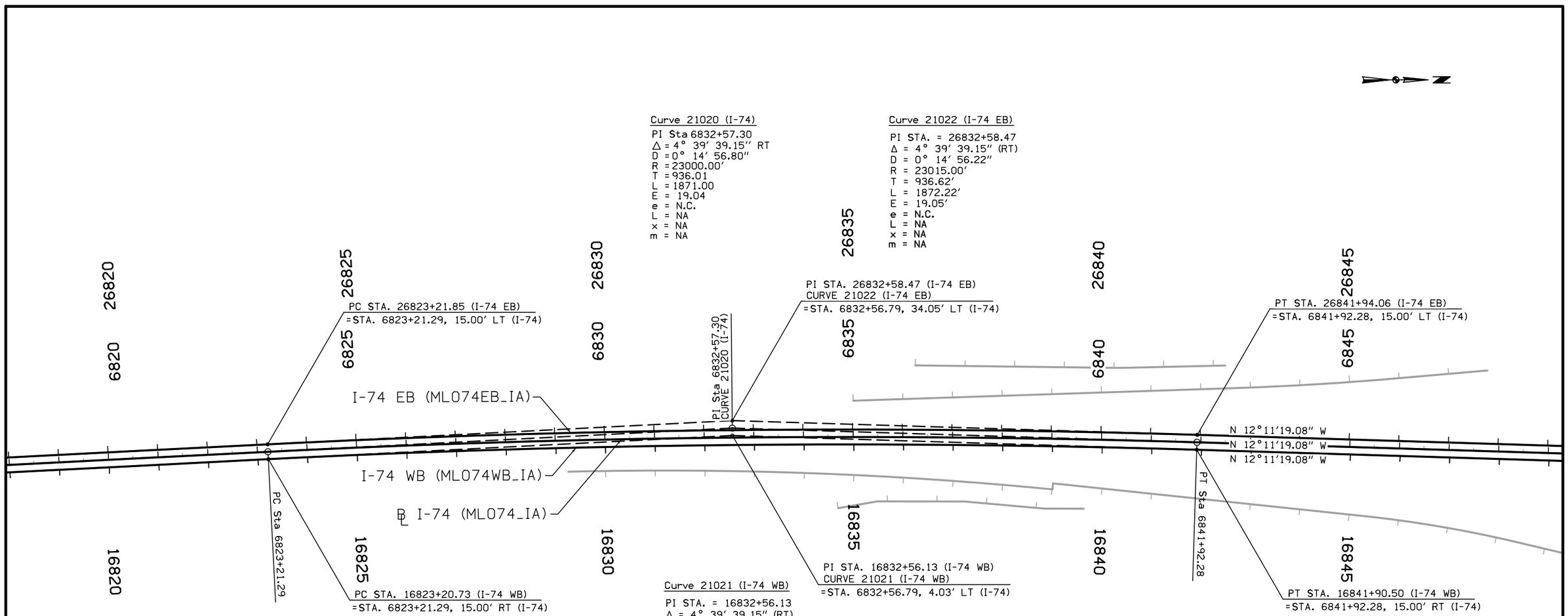


ALIGNMENTS

I-74 Mainline

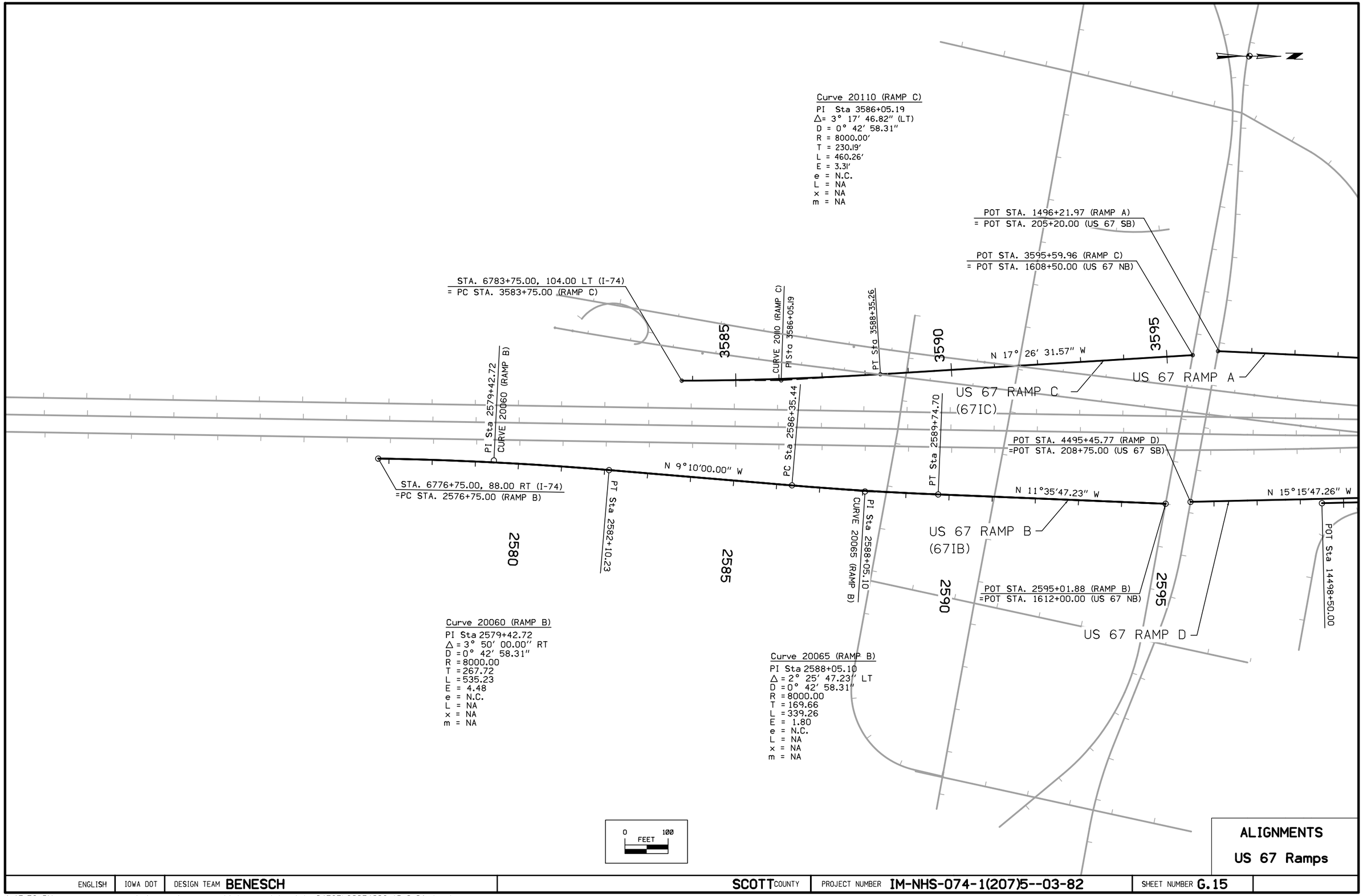
ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.13

1:15:48 PM untitled c:\pwise_work\do_not_delete\dms04767\82074206-AB-G-01.sht.sht



ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.14

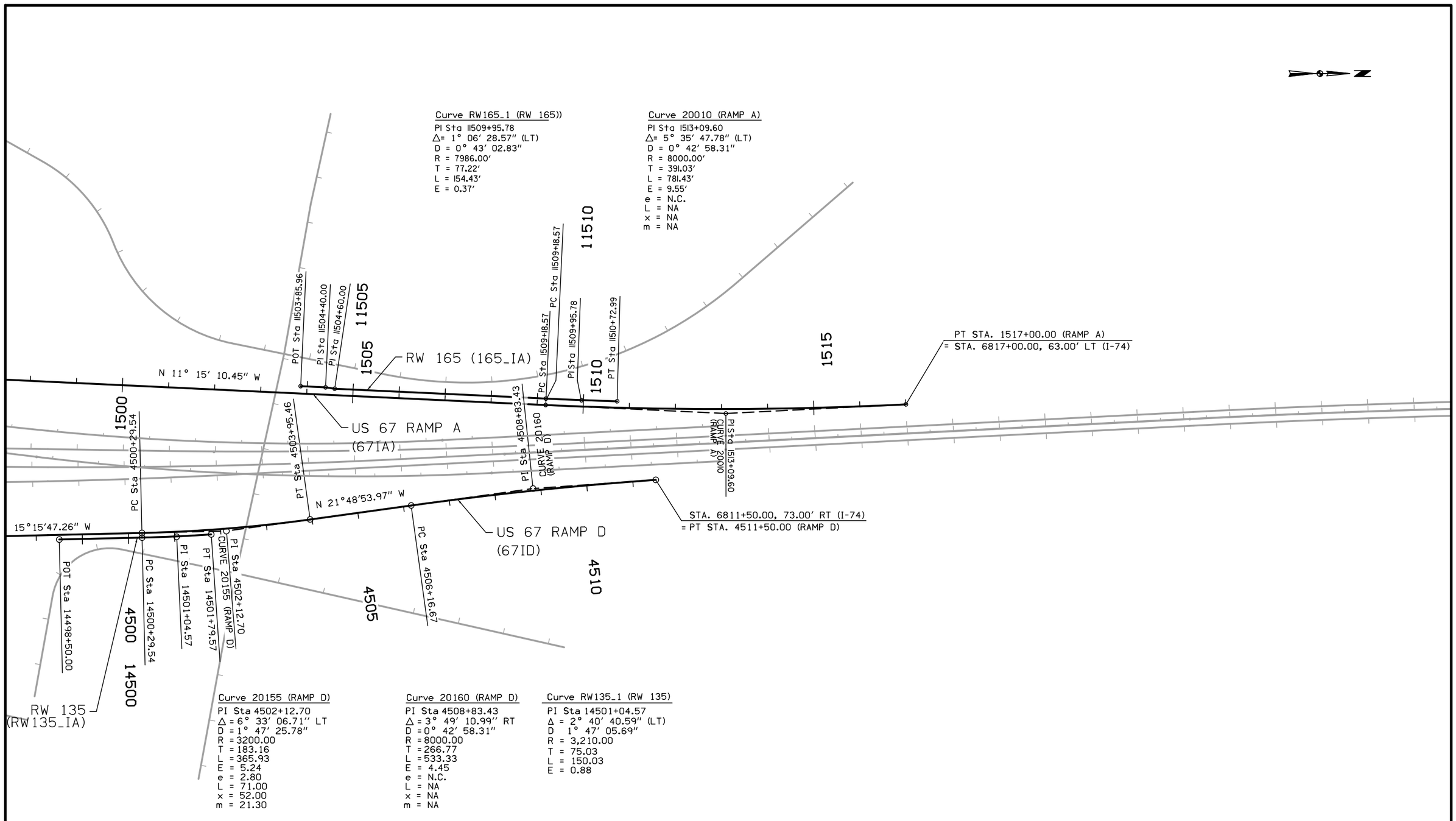
1:15:53 PM untitled c:\pwise_work\do_not_delete\dms04767\82074206-AB-G-01.sht.sht



ALIGNMENTS
US 67 Ramps

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.15

1:15:58 PM untitled c:\pwise_work\do_not_delete\dms04767\82074206-AB-G-01.sht.sht



ALIGNMENTS

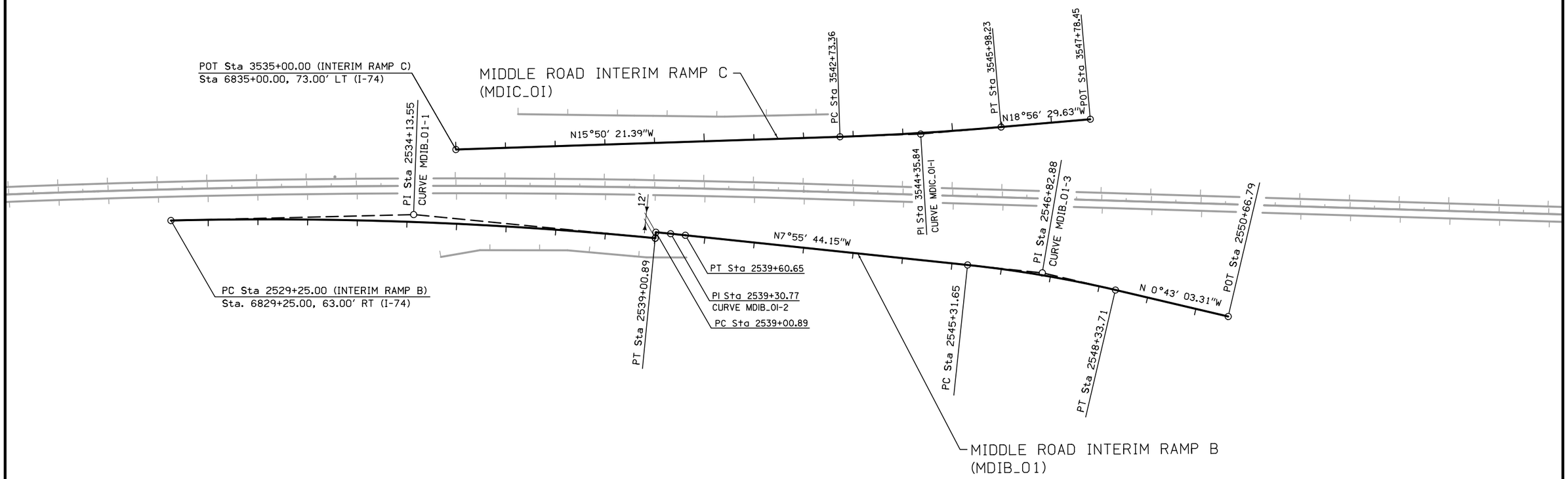
US 67 Ramps

ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.16

1:16:03 PM untitled c:\pwise_work\do_not_delete\dms04767\82074206-AB-G-01.sht.sht

Curve MDIC_OI-1 (INTERIM RAMP C)

PI Sta. = 3544+35.84
Δ = 3° 06′ 08.24″ (LT)
D = 0° 57′ 17.75″
R = 6,000.00′
T = 162.48′
L = 324.87′
E = 2.20′
e = N.C.
L = NA
x = NA
m = NA



Curve MDIB_OI-1 (INTERIM RAMP B)

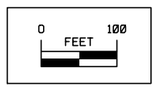
PI Sta. = 2534+13.55
Δ = 6° 59′ 21.45″ (RT)
D = 0° 42′ 58.31″
R = 8,000.00′
T = 488.55′
L = 975.89′
E = 14.90′
e = N.C.
L = NA
x = NA
m = NA

Curve MDIB_OI-2 (INTERIM RAMP B)

PI Sta. = 2539+30.77
Δ = 0° 25′ 38.55″ (RT)
D = 0° 42′ 54.45″
R = 8,012.00′
T = 29.88′
L = 59.76′
E = 0.06′
e = N.C.
L = NA
x = NA
m = NA

Curve MDIB_OI-3 (INTERIM RAMP B)

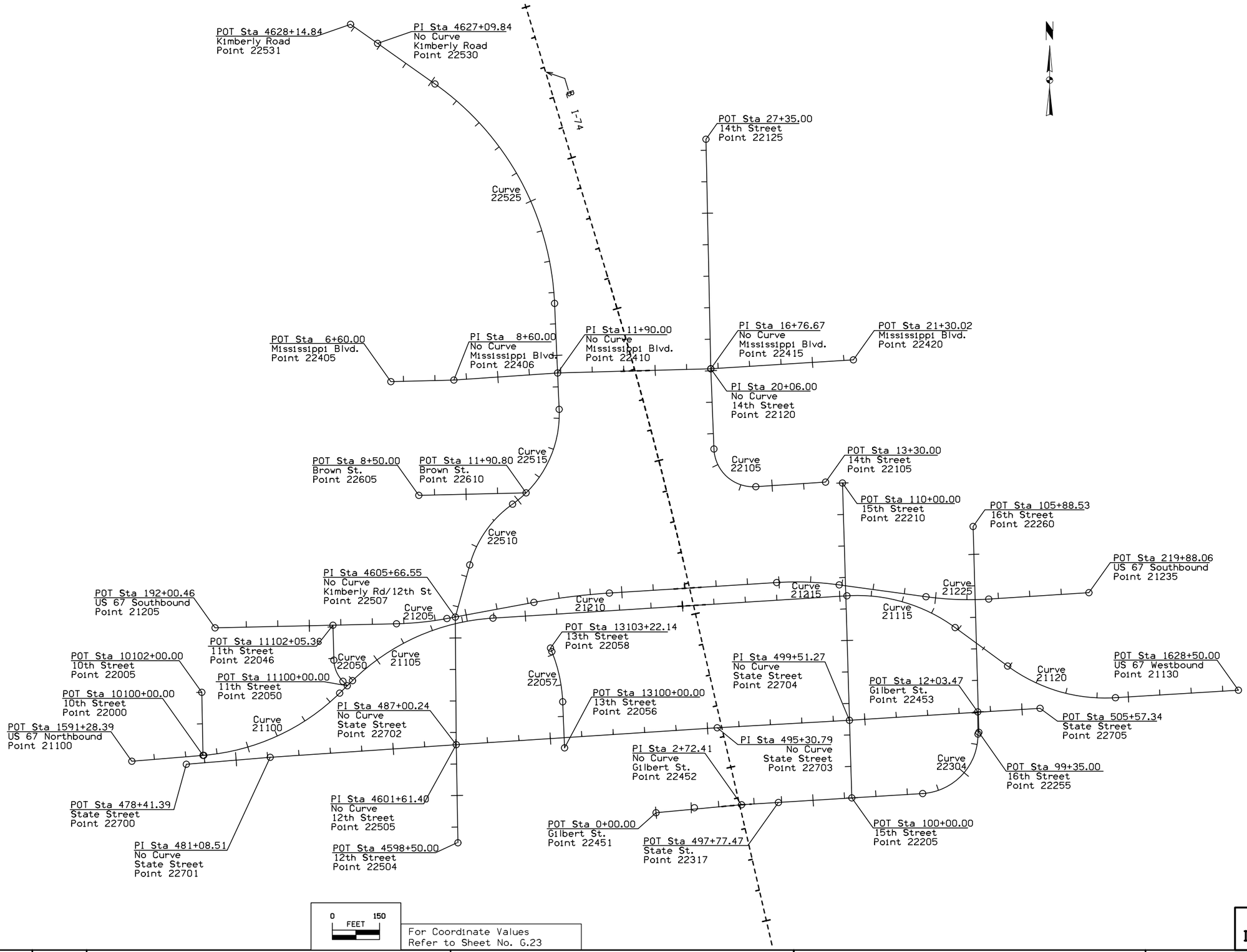
PI Sta. = 2546+82.88
Δ = 7° 12′ 40.84″ (RT)
D = 2° 23′ 14.37″
R = 2,400.00′
T = 151.23′
L = 302.07′
E = 4.76′
e = N.C.
L = NA
x = NA
m = NA



ALIGNMENTS

Middle Rd Ramps

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **G.17**	

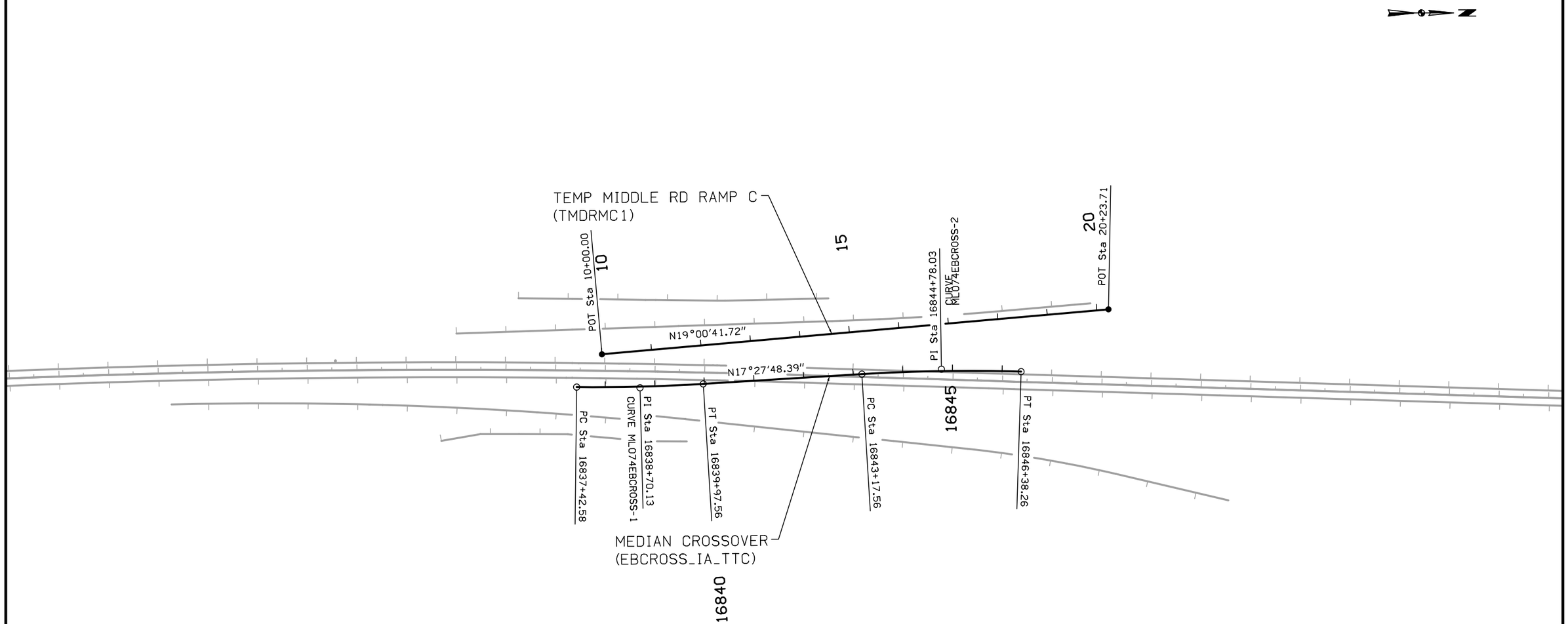


For Coordinate Values
Refer to Sheet No. G.23

ALIGNMENTS
IOWA LOCAL ROADS

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER G.18

8:44:25 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-G.sht



Curve ML074EBCROSS-1

PI Sta. = 16838+70.13
Δ = 4°09′ 16.35″ (LT)
D = 1°37′ 45.63″
R = 3,516.5′
T = 127.55′
L = 254.98′
E = 2.31′
e = N.C.
L = NA
x = NA
m = NA

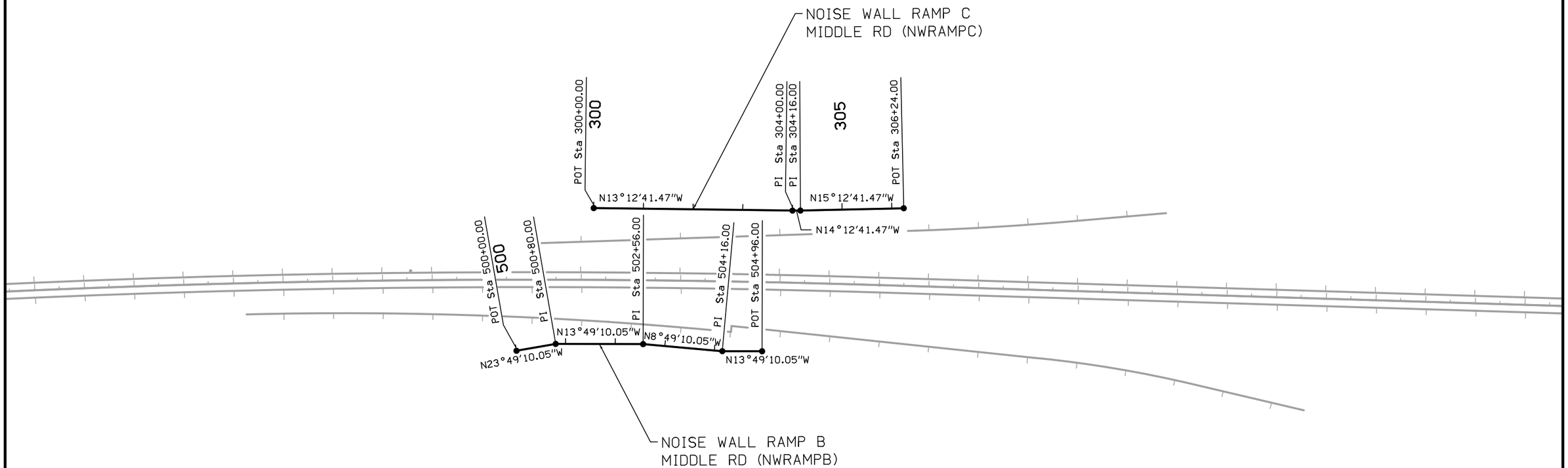
Curve ML074EBCROSS-2

PI Sta. = 16844+78.03
Δ = 5° 16′ 29.32″ (RT)
D = 1° 38′ 41.19″
R = 3,483.5′
T = 160.46′
L = 320.70′
E = 3.69′
e = N.C.
L = NA
x = NA
m = NA

0 100 FEET

ALIGNMENTS

DETOUR



ALIGNMENTS

Noise Walls

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **G.20**

1:16:18 PM untitled c:\pwise_work\do_not_delete\dms04767\82074206-AB-G-01.sht.sht

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)
ML074_IA	I-74 MAINLINE																		
21009		6719+17.38	562672.89	2459725.37															
21010								6742+96.78	565000.29	2459230.66	6744+71.31	565171.01	2459194.38	6746+45.84	565341.08	2459155.11			
21015								6796+70.83	570237.28	2458024.74	6801+41.31	570695.70	2457918.90	6806+11.44	571145.99	2457782.53			
21020								6823+21.29	572782.43	2457286.91	6832+57.30	573678.26	2457015.60	6841+92.28	574593.17	2456817.98			
21025B		6859+33.94	576295.57	2456450.26															
ML074EB_IA	I-74 EB																		
21001		26722+61.55	563004.32	2459640.61															
21003								26742+99.14	564997.38	2459216.97	26747+52.49	565440.83	2459122.71	26752+05.69	565879.54	2459008.44			
21005								26755+79.54	566241.33	2458914.21	26758+58.62	566511.40	2458843.87	26761+37.66	566783.32	2458781.09			
21017								26800+44.27	570589.80	2457902.30	26805+14.75	571048.23	2457796.46	26809+84.88	571498.51	2457660.09			
21022								26823+21.85	572778.08	2457272.56	26832+58.47	573674.49	2457001.07	26841+94.06	574590.00	2456803.32			
21027B		26859+35.72	576292.40	2456435.60															
ML074WB_IA	I-74 WB																		
21000		16722+56.30	563010.14	2459668.00															
21001								16757+83.78	566460.53	2458934.59	16759+58.32	566631.26	2458898.31	16761+32.85	566801.32	2458859.04			
21016								16792+97.39	569884.75	2458147.18	16797+67.87	570343.18	2458041.34	16802+38.00	570793.46	2457904.97			
21021								16823+20.73	572786.78	2457301.27	16832+56.13	573682.02	2457030.14	16841+90.50	574596.34	2456832.64			
21026B		16859+32.16	576298.74	2456464.92															
67IA	RAMP A																		
20005		1496+21.97	570140.13	2457849.37															
20010								1509+18.57	571411.80	2457596.35	1513+09.60	571795.31	2457520.05	1517+00.00	572169.55	2457406.70			
20010		1517+00.00	572169.55	2457406.70															
67IB	RAMP B																		
20060		2576+75.00	568312.39	2458559.45															
20060								2576+75.00	568312.39	2458559.45	2579+42.72	568573.25	2458499.22	2582+10.23	568837.55	2458456.57			
20065								2586+35.44	569257.33	2458388.84	2588+05.10	569424.82	2458361.81	2589+74.70	569591.01	2458327.70			
20070		2595+01.88	570107.42	2458221.73															
67IC	RAMP C																		
20110		3583+75.00	568951.26	2458214.90															
20110								3583+75.00	568951.26	2458214.90	3586+05.19	569174.47	2458158.65	3588+35.26	569394.08	2458089.65			
20115		3595+59.96	570085.46	2457872.42															
67ID	RAMP D																		
20150		4495+45.77	570162.40	2458203.67															
20155								4500+29.54	570629.09	2458076.32	4502+12.70	570805.80	2458028.10	4503+95.46	570975.84	2457960.04			
20160								4506+16.67	571181.20	2457877.84	4508+83.43	571428.87	2457778.70	4511+50.00	571682.58	2457696.29			
20160		4511+50.00	571682.58	2457696.29															
3RG_IL	RAMP RD-G																		
RRDG1		120+00.00	566229.23	2458867.76															
RRD-G-1								123+97.74	565839.53	2458947.34	125+86.43	565654.65	2458985.09	127+75.08	565468.49	2459015.84			
RRDG2		137+09.35	564546.70	2459168.10															
3RH_IL	RAMP RD-H																		
RRDH1		210+00.00	564718.25	2459496.40															
3RH IL-1								216+71.36	565354.44	2459281.94	220+64.68	565727.15	2459156.30	224+57.36	566110.38	2459067.82			
RRDH2		231+77.55	566812.12	2458905.81															
6RD_IL	RAMP 6TH-D																		
RSIXD1		420+00.00	563503.63	2459677.85															
6RD IL-1								421+00.39	563602.38	2459659.74	421+45.59	563646.83	2459651.59	421+90.74	563690.55	2459640.12			
6RD IL-2								433+38.49	564800.71	2459348.80	434+74.45	564932.22	2459314.29	436+10.40	565064.62	2459283.36			
RSIXD2		443+56.73	565791.39	2459113.63															
RW165_IA	RET WALL 165																		
RW200		11503+85.96	570886.41	2457684.57															
RW201		11504+40.00	570939.41	2457674.03															
RW202		11504+60.00	570959.31	2457672.11															
RW165 1								11509+18.57	571409.07	2457582.62	11509+95.78	571484.80	2457567.55	11510+72.99	571560.22	2457551.02			
	MIDDLE RD																		
MDIB_OI	INTERIM RAMP B																		
MDIB_OI-1								2529+25.00	573379.12	2457180.28	2534+13.55	573850.25	2457050.99	2539+00.89	574333.62	2456979.99			
MDIB_OI-2								2539+00.89	574331.87	2456968.12	2539+30.77	574361.44	2456963.77	2539+60.65	574391.03	2456959.65			
MDIB_OI-3								2545+31.65	574956.57	2456880.89	2546+82.88	575106.36	2456860.02	2548+33.71	575257.58	2456858.13			
MDIB2		2550+66.79	575490.64	2456855.21															
	MIDDLE RD																		
MDIC_OI	INTERIM RAMP C																		
MDIC1		3535+00.00	573901.24	2456903.45															
MDIC_OI-1								3542+73.36	574645.24	2456692.36	3544+35.84	574801.55	2456648.02	3545+98.23	574955.22	2456595.28			
MDIC2		3547+78.45	575125.68	2456536.78															
EBCROSS_IA_TTC	TEMP CROSSOVER																		
ML074EBCROSS-1								16837+42.58	574162.27	2456949.82	16838+70.13	574286.39	2456920.46	16839+97.56	574408.06	2456882.18			
ML074EBCROSS-2								16843+17.56	574713.32	2456786.15	16844+78.03	574866.38	2456737.99	16846+38.26	575023.23	2456704.12			
	TEMP MIDDLE RD																		
TMDRMC1	ENTRANCE RAMP																		
TM112		10+00.00	574195.82	2456873.42															
TM113		20+23.71	575163.69	2456539.94															

ENGLISH | IOWA DOT | DESIGN TEAM **BENESCH** | **SCOTT** COUNTY | PROJECT NUMBER **IM-NHS-074-1(207)5--03-82** | SHEET NUMBER **G.21**

1:16:23 PM untitled c:\pwise_work\do_not_delete\dms04767\82074206-AB-G-01.sht.sht

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)
SWTRAIL-1	PROPOSED LEVEE							100+00.00	568692.07	2458131.98	101+31.50	568743.30	2458010.87	101+74.71	568837.65	2458102.47			
SWTRAIL-2	CONNECTION							101+74.71	568837.65	2458102.47	102+08.44	568861.85	2458125.97	102+28.39	568839.27	2458151.02			
SWTRAIL-3								102+28.39	568839.27	2458151.02	102+37.20	568833.37	2458157.56	102+45.32	568824.69	2458158.96			
NWRAMPB	NOISEWALL RAMP B																		
NW30	MIDDLE RD	500+00.00	573923.91	2457120.59															
NW31		500+80.00	573997.10	2457088.28															
NW32		502+56.00	574168.01	2457046.24															
NW33		504+16.00	574326.11	2457021.71															
NW34		504+96.00	574403.80	2457002.60															
NWRAMPC	NOISEWALL RAMP C																		
NW10	MIDDLE RD	300+00.00	574005.49	2456804.27															
NW11		304+00.00	574394.90	2456712.85															
NW12		304+16.00	574410.42	2456708.92															
NW13		306+24.00	574611.13	2456654.35															
RW135_IA	RET WALL 135																		
RW100		14498+50.00	570458.52	2458133.23															
RW135_1								14500+29.54	570631.73	2458085.97	14501+04.57	570704.11	2458066.22	14501+79.57	570775.49	2458043.10			
RFI54	TEMP RAMP B	200+00.00	568705.76	2458163.39															
RFI55	TEMP RAMP B	205+06.06	569211.69	2458151.94															
RAMPRFI4-1	TEMP RAMP B							210+06.65	569711.68	2458127.46	210+91.66	569796.58	2458123.30	211+67.41	569858.50	2458181.55			
RAMPRFI4-2	TEMP RAMP B							211+67.41	569858.50	2458181.55	212+40.24	569911.55	2458231.45	213+03.02	569983.57	2458220.63			
RFI56	TEMP RAMP B	213+70.54	570050.35	2458210.59															

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)
67WB_IA	US 67 SOUTHBOUND																		
21205		192+00.46	570,025.98	2,456,537.82															
21205								197+76.87	570,038.92	2,457,114.08	198+57.61	570,040.727	2,457,194.80	199+38.01	570,055.47	2,457,274.19			
21210								202+18.73	570,106.72	2,457,550.19	203+39.69	570,128.797	2,457,669.12	204+60.36	570,136.39	2,457,789.85			
21215								209+92.57	570,169.77	2,458,321.01	210+92.33	570,176.028	2,458,420.57	211+91.43	570,162.49	2,458,519.41			
21225								214+69.68	570,124.74	2,458,795.08	215+69.77	570,111.164	2,458,894.25	216+69.20	570,117.51	2,458,994.15			
21235		219+88.06	570,137.72	2,459,312.36															
67EB_IA	US 67 NORTHBOUND																		
21100		1591+28.39	569,602.50	2,456,273.91															
21100								1593+57.53	569,621.54	2,456,502.26	1596+09.69	569,642.479	2,456,753.54	1598+41.58	569,818.85	2,456,933.74			
21105								1598+98.53	569,858.68	2,456,974.45	1601+58.77	570,040.714	2,457,160.43	1603+96.85	570,057.04	2,457,420.16			
21115								1615+22.86	570,127.67	2,458,543.96	1617+13.20	570,139.612	2,458,733.92	1618+88.07	570,027.03	2,458,887.40			
21120								1620+94.69	569,904.82	2,459,054.01	1622+84.52	569,792.548	2,459,207.08	1624+58.99	569,804.13	2,459,396.55			
21130		1628+50.00	569,827.98	2,459,786.84															
STATE_IA	STATE STREET																		
22700		478+41.39	569,592.84	2,456,446.92															
22701		481+08.51	569,615.03	2,456,713.12															
22702		487+00.24	569,655.25	2,457,303.48															
22703		495+30.79	569,708.82	2,458,132.30															
22704		499+51.27	569,732.47	2,458,552.12															
22705		505+57.34	569,770.68	2,459,156.98															
KBRD_IA	KIMBERLY ROAD																		
22507		4605+66.55	570,060.40	2,457,300.73															
22510								4607+38.27	570,225.88	2,457,346.56	4608+63.42	570,346.49	2,457,379.97	4609+78.65	570,418.57	2,457,482.28			
22515								4609+78.65	570,418.57	2,457,482.28	4611+69.83	570,528.69	2,457,638.56	4613+28.61	570,719.69	2,457,630.36			
22525								4616+65.09	571,055.86	2,457,615.94	4621+06.86	571,497.23	2,457,596.99	4624+86.45	571,752.22	2,457,236.24			
22530		4627+09.84	571,881.15	2,457,053.81															
22531		4628+14.84	571,941.76	2,456,968.07															
HRMS_IA	MISSISSIPPI BOULEVARD																		
22405		6+60.00	570,807.42	2,457,096.24															
22406		8+60.00	570,812.55	2,457,296.17															
22410		11+90.00	570,834.88	2,457,625.42															
22415		16+76.67	570,848.21	2,458,111.90															
22420		21+30.02	570,876.54	2,458,564.36															
BROWN_IA	BROWN STREET																		
22605		8+50.00	570,446.72	2,457,184.87															
22610		11+90.80	570,454.62	2,457,525.57															
10ST_IA	10TH STREET																		
22000		10100+00.00	569,621.31	2,456,499.61															
22005		10102+00.00	569,821.28	2,456,495.72															
11ST_IA	11TH STREET																		
22050		11100+00.00	569,842.23	2,456,957.63															
22050								11100+19.76	569,856.35	2,456,943.81	11100+58.91	569,884.33	2,456,916.42	11100+94.40	569,923.47	2,456,915.31			
22046		11102+05.36	570,034.38	2,456,912.17															
12ST_IA	12TH STREET																		
22504		4598+50.00	569,343.90	2,457,308.90															
22505		4601+61.40	569,655.25	2,457,303.48															
13ST_IA	13TH STREET																		
22056		13100+00.00	569,644.99	2,457,647.48															
22057								13101+46.55	569,791.42	2,457,641.54	13102+29.20	569,874.00	2,457,638.19	13103+10.22	569,950.65	2,457,607.28			
22058		13103+22.14	569,961.70	2,457,602.82															
14ST_IA	14TH STREET																		
22105		13+30.00	570,488.55	2,458,476.22															
22105								15+51.84	570,474.04	2,458,254.85	16+80.23	570,465.64	2,458,126.75	17+51.53	570,593.92	2,458,121.77			
22120		20+06.18	570,848.38	2,458,111.90															
22125		27+35.00	571,577.04	2,458,096.36															
15ST_IA	15TH STREET																		
22205		100+00.00	569,486.22	2,458,559.46															
22210		110+00.00	570,485.77	2,458,529.67															
16ST_IA	16TH STREET																		
22255		99+35.00	569,694.50	2,458,962.78															
22260		105+88.53	570,347.77	2,458,944.40															
67IB	US 67 RAMP B																		
20060		2576+75.00	568,312.39	2,458,559.45															
20060								2576+75.00	568,312.39	2,458,559.45	2579+42.72	568,573.25	2,458,499.22	2582+10.23	568,837.55	2,458,456.57			
20065								2586+35.44	569,257.33	2,458,388.84	2588+05.10	569,424.82	2,458,361.81	2589+74.70	569,591.01	2,458,327.70			
20070		2595+01.88	570,107.42	2,458,221.73															

ENGLISH | IOWA DOT | DESIGN TEAM **WHKS & Co.** | **SCOTT** COUNTY | PROJECT NUMBER **IM-NHS-074-1(207)5--03-82** | SHEET NUMBER **G.23**

8:44:26 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-G.sht

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	
ML074_IA	I-74 MAINLINE															
21010											1°00'00.00" LT	174.54'	349.07'	20,000.00'	0.76'	
21015											3°50'58.23" LT	470.48'	940.61'	14,000.00'	7.90'	
21020											4°39'39.15" RT	936.01'	1,871.00'	23,000.00'	19.04'	
ML074EB_IA	I-74 EB															
21003											2°35'56.05" LT	453.35'	906.55'	19,986.00'	5.14'	
21005											1°35'56.05" RT	279.08'	558.12'	20,000.00'	1.95'	
21017											3°50'58.22" LT	470.48'	940.61'	14,000.00'	7.90'	
21022											4°39'39.15" RT	936.62'	1,872.22'	23,015.00'	19.05'	
ML074WB_IA	I-74 WB															
21001											1°00'00.00" LT	174.54'	349.07'	20,000.00'	0.76'	
21016											3°50'58.24" LT	470.48'	940.61'	14,000.00'	7.90'	
21021											4°39'39.15" RT	935.40'	1,869.78'	22,985.00'	19.03'	
67IA	RAMP A															
20010											5°35'47.78" LT	391.03'	781.43'	8,000.00'	9.55'	
67IB	RAMP B															
20060											3°50'00.00" RT	267.72'	535.23'	8,000.00'	4.48'	
20065											2°25'47.23" LT	169.66'	339.26'	8,000.00'	1.80'	
67IC	RAMP C															
20110											3°17'46.82" LT	230.19'	460.26'	8,000.00'	3.31'	
67ID	RAMP D															
20155											6°33'06.71" LT	183.16'	365.93'	3,200.00'	5.24'	
20160																
											3°49'10.99" RT	266.77'	533.33'	8,000.00'	4.45'	
3RG_IL	RAMP RD-G															
RRD-G-1											2°09'43.09" RT	188.69'	377.33'	10,000.00'	1.78'	
3RH_IL	RAMP RD-H															
3RHIL-1											5°37'45.59" RT	393.32'	786.00'	8,000.00'	9.66'	
6RD_IL	RAMP 6TH-D															
6RDIL-1											4°18'49.27" LT	45.19'	90.35'	1,200.00'	0.85'	
6RDIL-2											1°33'28.68" RT	135.97'	271.92'	10,000.00'	0.92'	
RW165_IA	RET WALL 165															
RW165 1											1°06'28.57" LT	77.22'	154.43'	7,986.00'	0.37'	
MDIB OI	MIDDLE RD RAMP B															
MDIB OI-1											6°59'21.45" RT	488.55'	975.89'	8000.00'	14.9'	
MDIB OI-2											0°25'38.55" RT	29.88'	59.76'	8012.00'	0.06'	
MDIB OI-3											7°12'40.84" RT	151.23'	302.07'	2400.00'	4.76'	
MDIC OI	MIDDLE RD RAMP C															
MDIC OI-1											3°06'08.24" LT	162.48'	324.87'	6000.00'	2.20'	
EBCROSS_IA_TTC	TEMP MEDIAN CROSS OVER															
ML074EBCROSS-1											4°09'16.35" LT	127.55'	254.98'	3516.50'	2.31'	
ML074EBCROSS-2											5°16'29.32" RT	160.46'	320.70'	3483.50'	3.69'	
SWTRAIL-1	PROPOSED LEVEE CONNECTION										111°13'23.59" RT	131.50'	174.71'	90.00'	69.35'	
SWTRAIL-2											87°53'02.91" RT	33.73'	53.69'	35.00'	13.61'	
SWTRAIL-3											38°47'21.78" RT	8.80'	16.93'	25.00'	1.50'	
RW135_IA	RET WALL 135															
RW135 1											2°40'40.59" LT	75.03'	150.03'	3,210.00'	0.88'	
RAMPRFI4-1	TEMP RAMP B										46°03'11.72" RT	85.00'	160.76'	200.00'	17.31'	
RAMPRFI4-2	TEMP RAMP B										51°47'52.03" LT	72.83'	135.61	150.00'	16.75'	

SUPERELEVATION DATA

See PV-300 Series

Road Identification	Circular Curve or Spiral Curve Name	Radius	Superelevation Data			Standard Road Plan	Section A-A	Section B-B	Section C-C	Section D-D	Section E-E	Section F-F	Case A	Case B	Case C	Case S	Case T	Case U	Remarks
			e	L	x														
		FT	%	FT	FT														
14th St.	Curve 22105	125	4.0	65	32	PV-301	14+74.34	15+06.34	15+38.34	15+71.34			15+51.84			15+06.34			
							18+29.03	17+97.03	17+65.03	17+32.03			17+51.53			17+97.03			

108-26A
08-01-08

STAGING NOTES

STAGE 1

Construction
- Outside of 40 Calendar Day Critical Closure:
  - All work on Brown Street and 14th Street south of Mississippi Blvd. No lane closures will be allowed on Mississippi Blvd at this time.

- 40 Calendar Day Critical Closure:
  - All work on Mississippi Blvd, including sidewalk and driveway construction
  - All work on 14th Street north of Mississippi Blvd, including the detour pavement in the northbound lane
  - Maintain a walking path between the school/parking lot south of Mississippi Blvd and the day care on the north side of the street

Traffic Control
- 14th St., South of Mississippi Blvd., to be closed to through traffic. Access to residences, business and adjacent properties to be maintained by the Contractor.
- A 40 calendar day critical closure will be in effect for the work on Mississippi Blvd and 14th Street north of Mississippi Blvd.
- No closures will be allowed on Mississippi Blvd or 14th Street north of Mississippi Blvd outside of the 40 calendar day critical closure.
- Lane closures on Mississippi Blvd. after the 40 calendar days shall be limited to flagger set-ups and between the hours of 9 am and 2 pm.
- Sidewalk on Mississippi Blvd shall be maintained on one side at all times except during the 40 day closure. A detour route must be provided during that time, refer to Sheet No. J.3 for detour route.

STAGE 2

Construction
- Construct west side of 14th St.

Traffic Control
- 14th St. will be reduced to one lane of traffic. Access to residences, business and adjacent properties to be maintained by the Contractor using staged construction at each entrance.
- I-74 Entrance loop will be closed and traffic will be routed to 10th St.

STAGE 3

Construction
- Construct the east lane of 14th St.

Traffic Control
- 14th St. will be reduced to one lane of traffic. Access to residences, business and adjacent properties to be maintained by the Contractor using staged construction at each entrance.
- I-74 Entrance loop will be closed and traffic will be routed to 12th St. to use I-74 SB entrance ramp off State St.

108-23A
08-01-08

TRAFFIC CONTROL PLAN

Refer to Sheet Nos. J.3 to J.8 for additional details of each individual stage.

For additional complementary information, refer to part 6 of the Manual on Uniform Traffic Control Devices and to the current Standard Specifications.

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	EB & WB Approach Spans - River Bridge
BRFIM-074-1(198)5--05-82	EB & WB Main Arch Spans - River Bridge
BRFIM-074-1(199)5--05-82	WB IA Viaduct, Ramps B & D
BRFIM-074-1(200)5--05-82	EB IA Viaduct, Ramps A & C
IM-74-1(220)5--13-82	Signing
ITS-074-1(222)5--25-82	Fiber Optics
ITS-074-1(221)5--25-82	ITS Deployment and Integretion
IMN-74-1(241)5-0E-82	Structural Health Monitoring
IMN-074-1(208)5-0E-82	Light Pole Supply
IMN-074-1(209)5-0E-82	Luminaire Supply
IMN-74-1(235)5-0E-82	Aesthetic Lighting Supply

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Med		Future Proposed Pavement Shading

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

	Pavement Removal		Proposed Granular Shoulder
	Proposed Granular Subbase		Temporary Shoulder
	Proposed Special Backfill		Existing Shoulder Strengthening
	Temporary Barrier Rail		Permanent Barrier Rail
			Channelizing Device

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

LINEWORK	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		Pavement Markings, White

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Proposed Granular Surface Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Light	(236)	Proposed Grading Limits Shading
Pink, Dark	(13)	Proposed MSE or CIP Wall Shading
Red	(3)	Proposed Bridge Shading and Sign Trusses
Black w/Gray, Light Fill	(0,48)	Previously Constructed Structure

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

●	Channelizing Device		Crash Cushion
×	Drum		Traffic Signal
◘	Temporary Lane Separator		Flagger
◆	Tubular Marker		Temporary Floodlighting
♦	Channelizer Marker		Traffic Sign
△	Concrete Barrier Marker		Type III Barricade
ς	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure

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

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES J)

Pedestrian Detour Legend

(A) R9-11 (Left) "Sidewalk Closed Ahead)

(B) M4-9b (Right) "Ped Detour & Arrow"

(C) M4-8A "End Detour)

(D) R9-11 (Right) "Sidewalk Closed Ahead"

(E) M4-9b (Left) "Ped Detour & Arrow"

Sidewalk closures are required but not shown

For Traffic Control Details
Refer to Sheet No. J.4

N

EX. 14TH ST

EX. MISSISSIPPI BLVD

MISSISSIPPI BLVD

EX. 12TH ST

74

Ex. Brown St.

Ex. Kimberly Road

Ex. US 67 SB

Ex. US 67 NB

EX. GRANT ST/
US 67

EX. 11TH ST

EX. 12TH ST

13TH ST

EX. STATE ST

EX. I-74
ENT. RAMP

Ex. 15th St.

Ex. 16th St.

Ex. 17th St.

Ex. State St

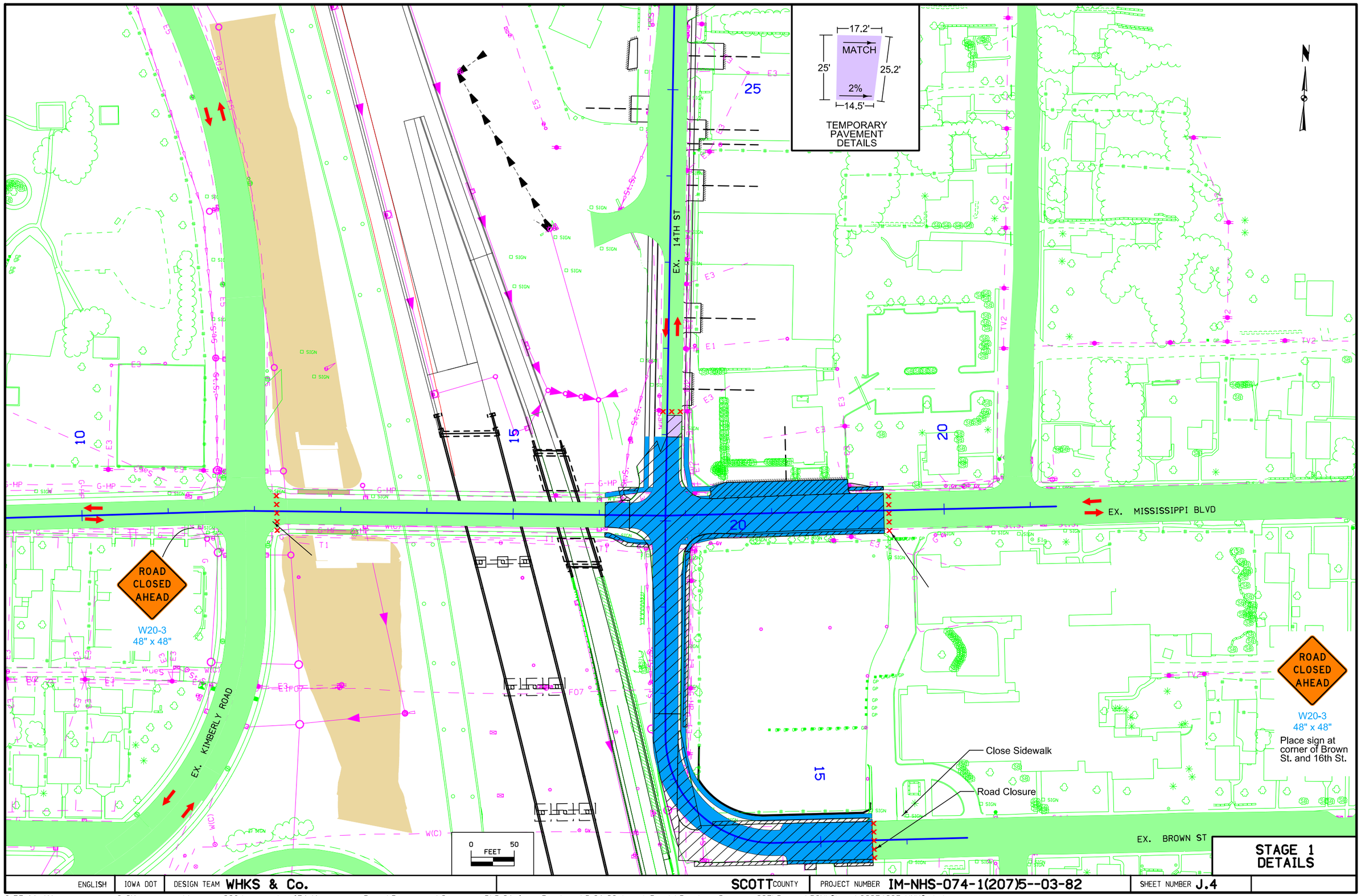
67

0 100
FEET

STAGE 1

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER J.3

8:57:08 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-J.sht



ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER J.4

8:57:11 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-J.sht

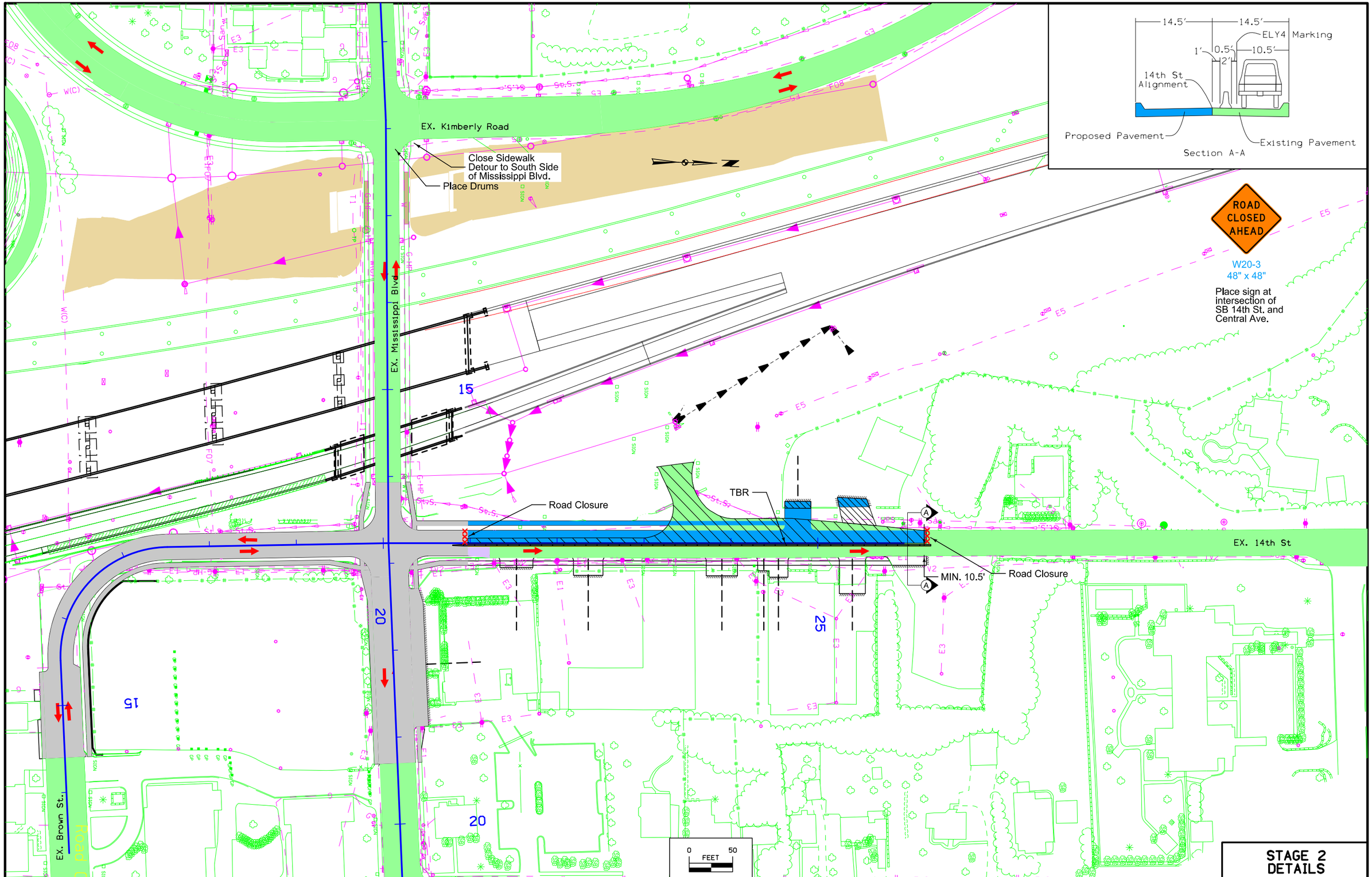
For Traffic Control Details
Refer to Sheet No. J.6

EX. 14TH ST
EX. MISSISSIPPI BLVD
MISSISSIPPI BLVD
EX. 12TH ST
EX. Brown St
Ex. US 67 SB
Ex. US 67 NB
EX. GRANT ST/
US 67
EX. 11TH ST
13TH ST
EX. STATE ST
EX. I-74
ENT. RAMP
EX. 15th St
EX. 16th St
EX. 17th St
74
67
0 FEET 100

STAGE 2

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER J.5

8:57:15 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-J.sht



ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER J.6

8:57:18 AM v81CH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-J.sht

For Traffic Control Details
Refer to Sheet No. J.8

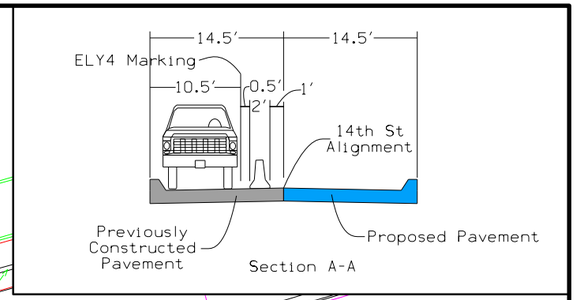
EX. 14th St
EX. Kimberly Road
EX. MISSISSIPPI BLVD
MISSISSIPPI BLVD
EX. 12TH ST
EX. Brown St
EX. 14TH ST
EX. US 67 NB
EX. US 67 SB
EX. GRANT ST/
US 67
EX. 11TH ST
EX. 12TH ST
13TH ST
EX. STATE ST
EX. I-74
ENT. RAMP
EX. State St
EX. STATE ST
74
67

0 FEET 100

STAGE 3

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER J.7

8:57:22 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-J.sht



EX. Kimberly Road

EX. MISSISSIPPI BLVD

EX. 14th St

EX. Brown St

Road C

15

20

25

TBR

One entrance to remain
open at all times

Entrance to be built
in 2 stages

Place Drums

Close Sidewalk

Close Sidewalk
Detour To South Side
of Mississippi Blvd.

Road Closure

ROAD
CLOSED
AHEAD

W20-3
48" x 48"

ROAD
CLOSED
AHEAD

W20-3
48" x 48"

Place sign at
intersection of
Mississippi Blvd.
and 15th St.

0 50
FEET

STAGE 3
DETAILS

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER J.8

8:57:25 AM v81CH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-J.sht

INTERSECTION CURVE COORDINATES

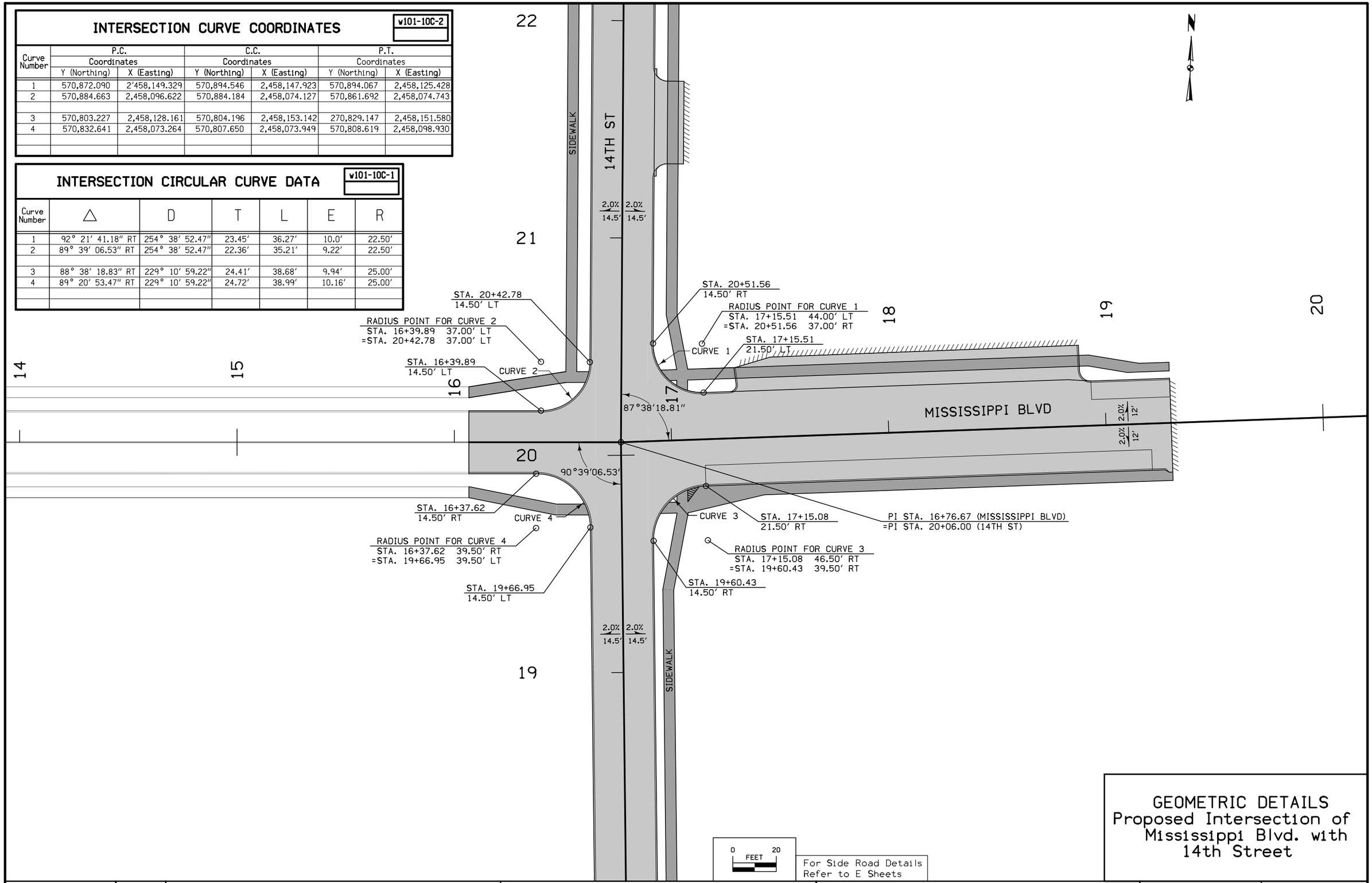
w101-10C-2

Curve Number	P.C. Coordinates		C.C. Coordinates		P.T. Coordinates	
	Y (Northing)	X (Easting)	Y (Northing)	X (Easting)	Y (Northing)	X (Easting)
1	570,872.090	2'458,149.329	570,894.546	2,458,147.923	570,894.067	2,458,125.428
2	570,884.663	2,458,096.622	570,884.184	2,458,074.127	570,861.692	2,458,074.743
3	570,803.227	2,458,128.161	570,804.196	2,458,153.142	270,829.147	2,458,151.580
4	570,832.641	2,458,073.264	570,807.650	2,458,073.949	570,808.619	2,458,098.930

INTERSECTION CIRCULAR CURVE DATA

w101-10C-1

Curve Number	△	D	T	L	E	R
1	92° 21′ 41.18″ RT	254° 38′ 52.47″	23.45′	36.27′	10.0′	22.50′
2	89° 39′ 06.53″ RT	254° 38′ 52.47″	22.36′	35.21′	9.22′	22.50′
3	88° 38′ 18.83″ RT	229° 10′ 59.22″	24.41′	38.68′	9.94′	25.00′
4	89° 20′ 53.47″ RT	229° 10′ 59.22″	24.72′	38.99′	10.16′	25.00′

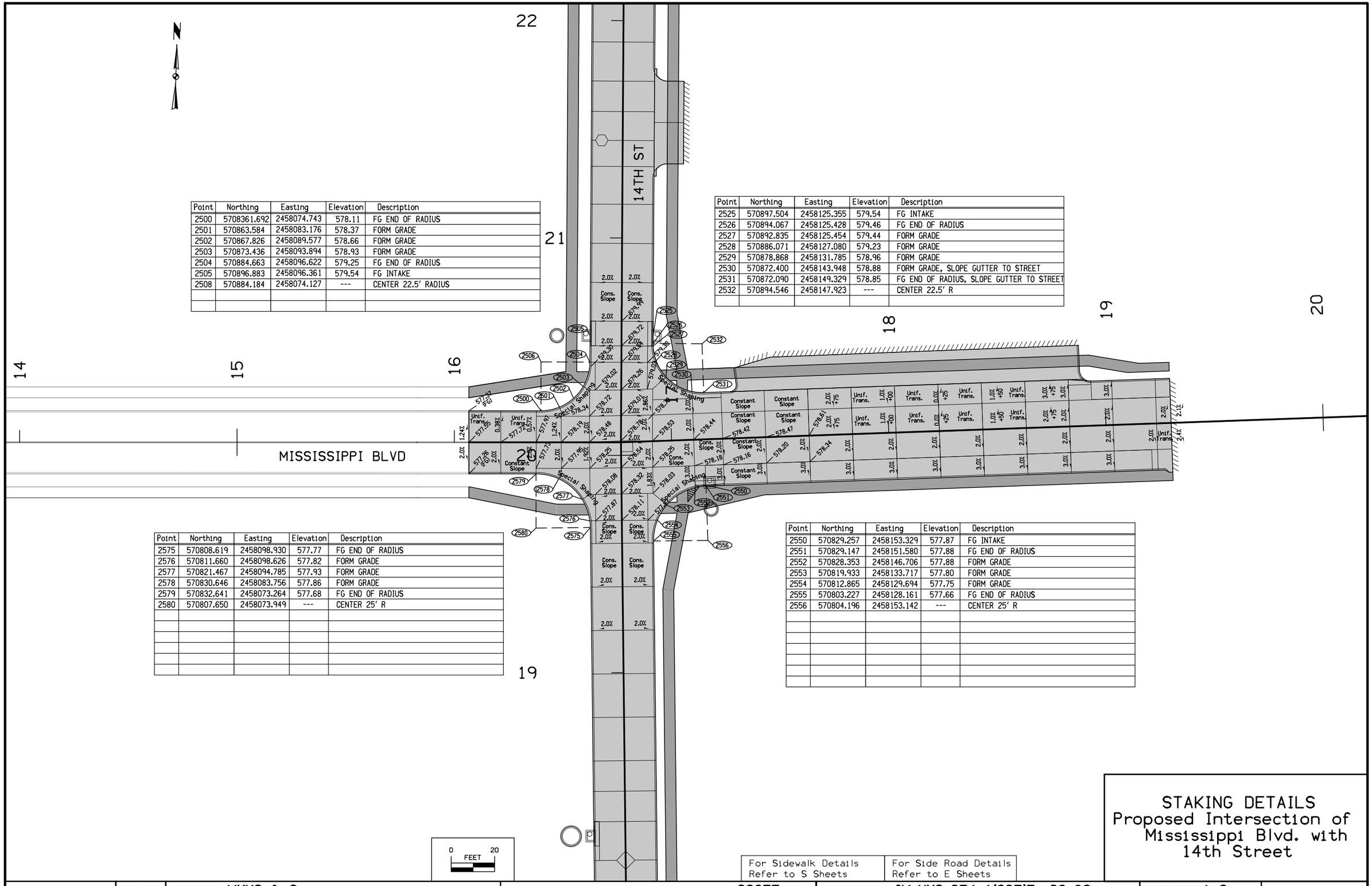


For Side Road Details
Refer to E Sheets

GEOMETRIC DETAILS
Proposed Intersection of Mississippi Blvd. with 14th Street

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER L.1

8:44:43 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-L.sht



Point	Northing	Easting	Elevation	Description
2500	5708361.692	2458074.743	578.11	FG END OF RADIUS
2501	570863.584	2458083.176	578.37	FORM GRADE
2502	570867.826	2458089.577	578.66	FORM GRADE
2503	570873.436	2458093.894	578.93	FORM GRADE
2504	570884.663	2458096.622	579.25	FG END OF RADIUS
2505	570896.883	2458096.361	579.54	FG INTAKE
2508	570884.184	2458074.127	---	CENTER 22.5' RADIUS

Point	Northing	Easting	Elevation	Description
2525	570897.504	2458125.355	579.54	FG INTAKE
2526	570894.067	2458125.428	579.46	FG END OF RADIUS
2527	570892.835	2458125.454	579.44	FORM GRADE
2528	570886.071	2458127.080	579.23	FORM GRADE
2529	570878.868	2458131.785	578.96	FORM GRADE
2530	570872.400	2458143.948	578.88	FORM GRADE, SLOPE GUTTER TO STREET
2531	570872.090	2458149.329	578.85	FG END OF RADIUS, SLOPE GUTTER TO STREET
2532	570894.546	2458147.923	---	CENTER 22.5' R

Point	Northing	Easting	Elevation	Description
2575	570808.619	2458098.930	577.77	FG END OF RADIUS
2576	570811.660	2458098.626	577.82	FORM GRADE
2577	570821.467	2458094.785	577.93	FORM GRADE
2578	570830.646	2458083.756	577.86	FORM GRADE
2579	570832.641	2458073.264	577.68	FG END OF RADIUS
2580	570807.650	2458073.949	---	CENTER 25' R

Point	Northing	Easting	Elevation	Description
2550	570829.257	2458153.329	577.87	FG INTAKE
2551	570829.147	2458151.580	577.88	FG END OF RADIUS
2552	570828.353	2458146.706	577.88	FORM GRADE
2553	570819.933	2458133.717	577.80	FORM GRADE
2554	570812.865	2458129.694	577.75	FORM GRADE
2555	570803.227	2458128.161	577.66	FG END OF RADIUS
2556	570804.196	2458153.142	---	CENTER 25' R

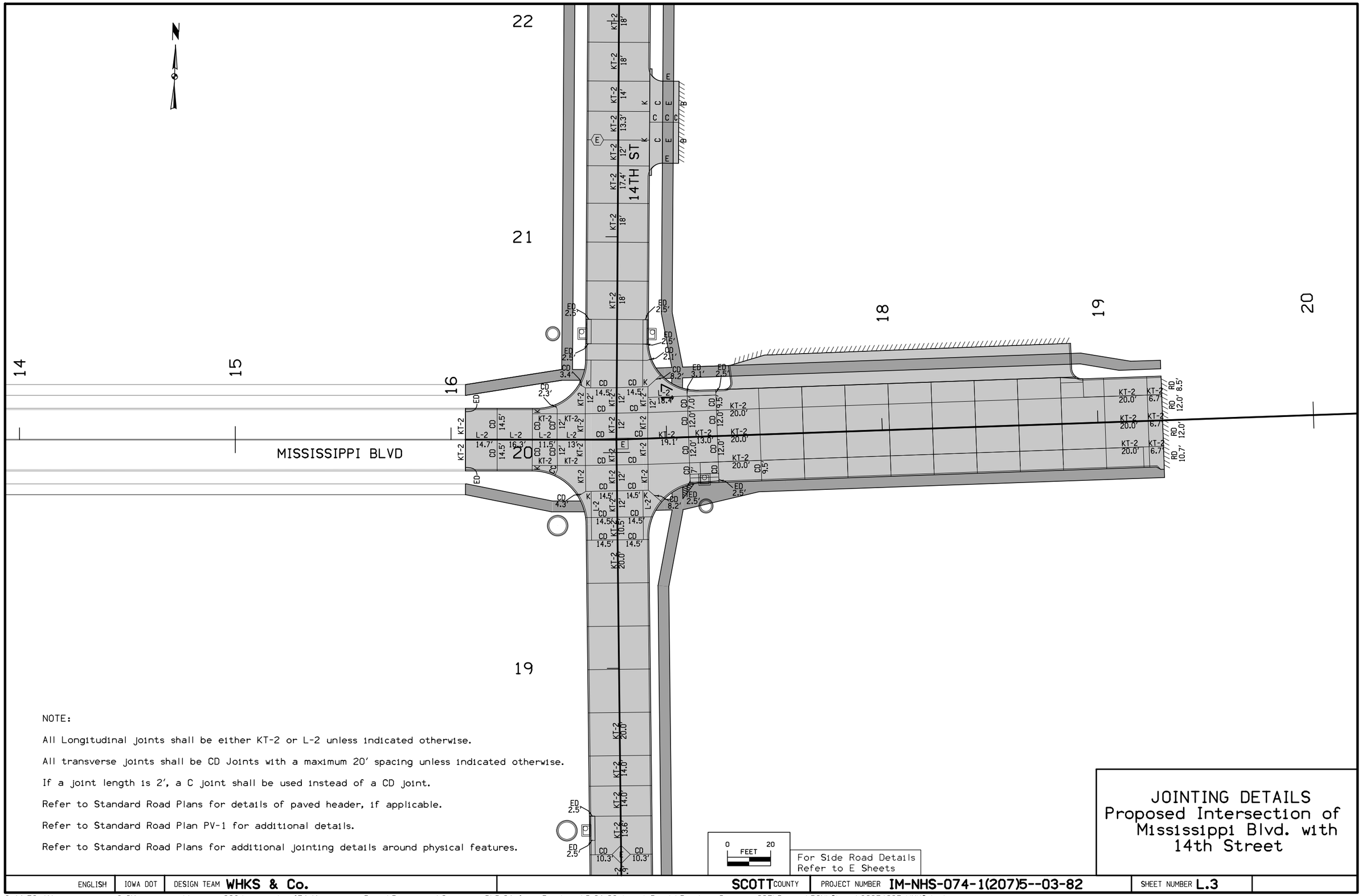
For Sidewalk Details Refer to S Sheets

For Side Road Details Refer to E Sheets

STAKING DETAILS
Proposed Intersection of Mississippi Blvd. with 14th Street

ENGLISH | IOWA DOT | DESIGN TEAM **WHKS & Co.** | **SCOTT** COUNTY | PROJECT NUMBER **IM-NHS-074-1(207)5--03-82** | SHEET NUMBER **L.2**

8:44:48 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-L.sht



NOTE:

All Longitudinal joints shall be either KT-2 or L-2 unless indicated otherwise.

All transverse joints shall be CD Joints with a maximum 20′ spacing unless indicated otherwise.

If a joint length is 2′, a C joint shall be used instead of a CD joint.

Refer to Standard Road Plans for details of paved header, if applicable.

Refer to Standard Road Plan PV-1 for additional details.

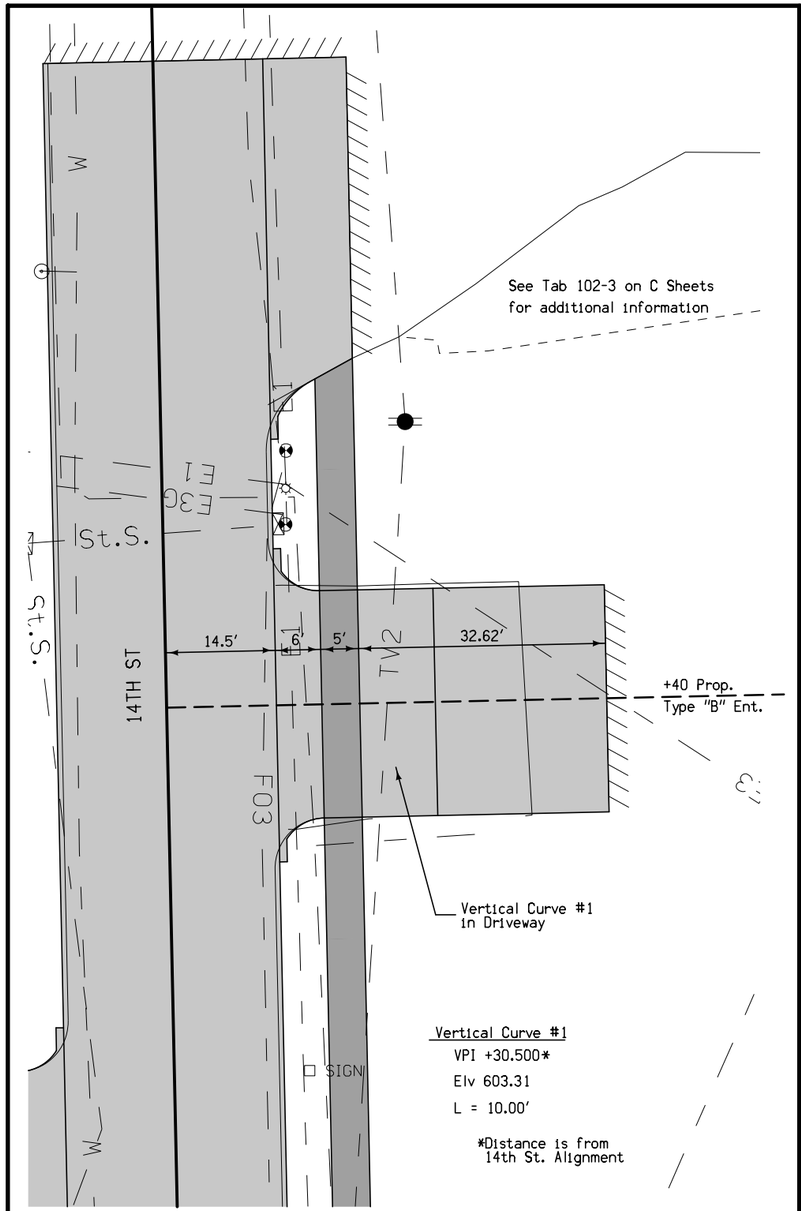
Refer to Standard Road Plans for additional jointing details around physical features.

For Side Road Details
Refer to E Sheets

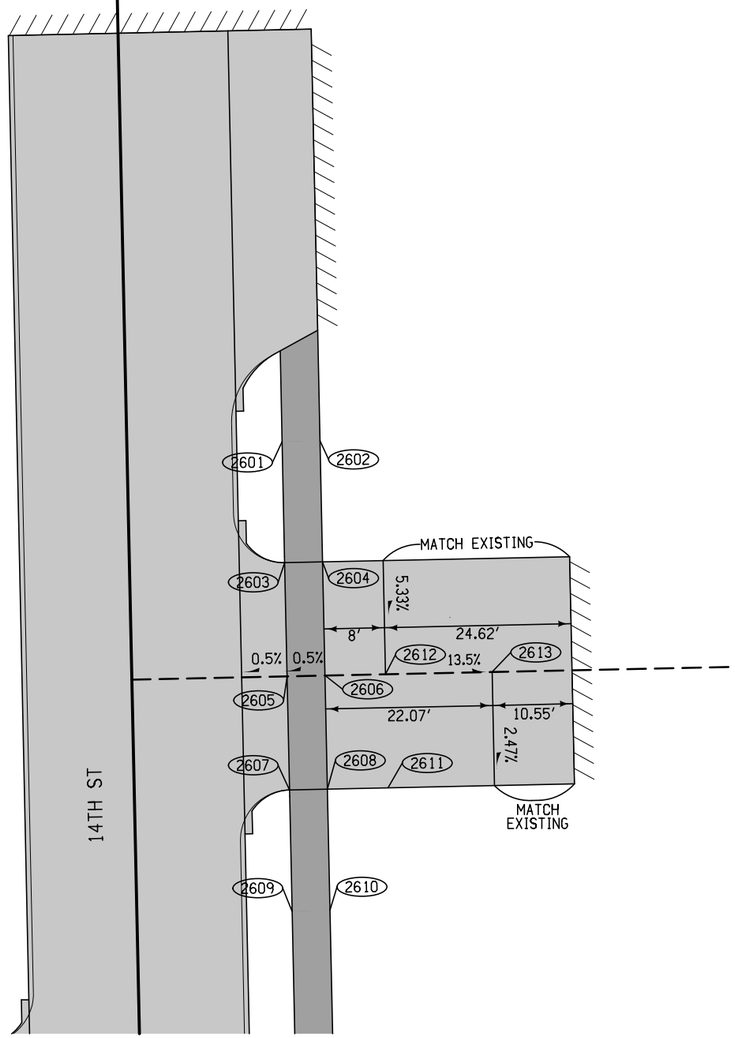
JOINTING DETAILS
Proposed Intersection of Mississippi Blvd. with 14th Street

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER L.3

8:44:53 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-L.sht

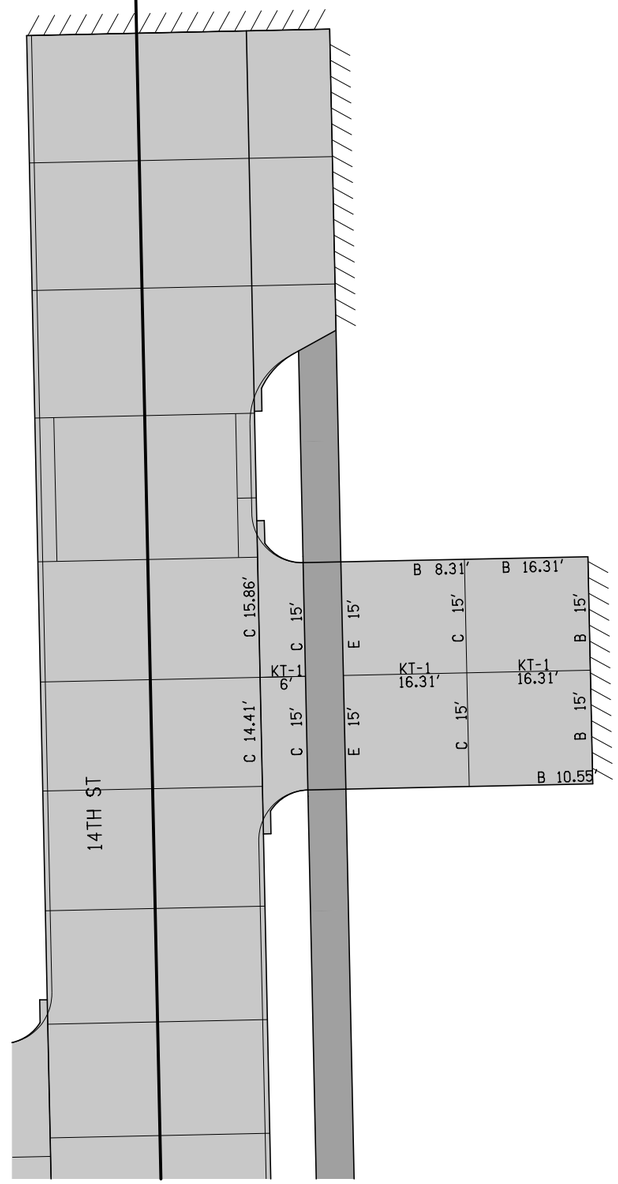


GEOMETRICS



Point	Northing	Easting	Elevation	Description
2601	571413.152	2458120.362	607.06	FRONT OF SIDEWALK
2602	571413.258	2458125.361	607.14	BACK OF SIDEWALK
2603	571397.155	2458120.703	604.78	FRONT OF SIDEWALK
2604	571397.262	2458125.702	604.80	BACK OF SIDEWALK
2605	571382.159	2458121.023	602.83	FRONT OF SIDEWALK
2606	571382.265	2458126.022	602.86	BACK OF SIDEWALK
2607	571367.162	2458121.343	601.80	FRONT OF SIDEWALK
2608	571367.269	2458126.342	601.82	BACK OF SIDEWALK
2609	571351.166	2458121.684	600.89	FRONT OF SIDEWALK
2610	571351.272	2458126.683	600.97	BACK OF SIDEWALK
2611	571367.439	2458134.340	601.52	EDGE OF DRIVEWAY
2612	571382.436	2458134.020	601.78	CENTERLINE OF DRIVEWAY
2613	571382.736	2458148.087	599.88	CENTERLINE OF DRIVEWAY

STAKING



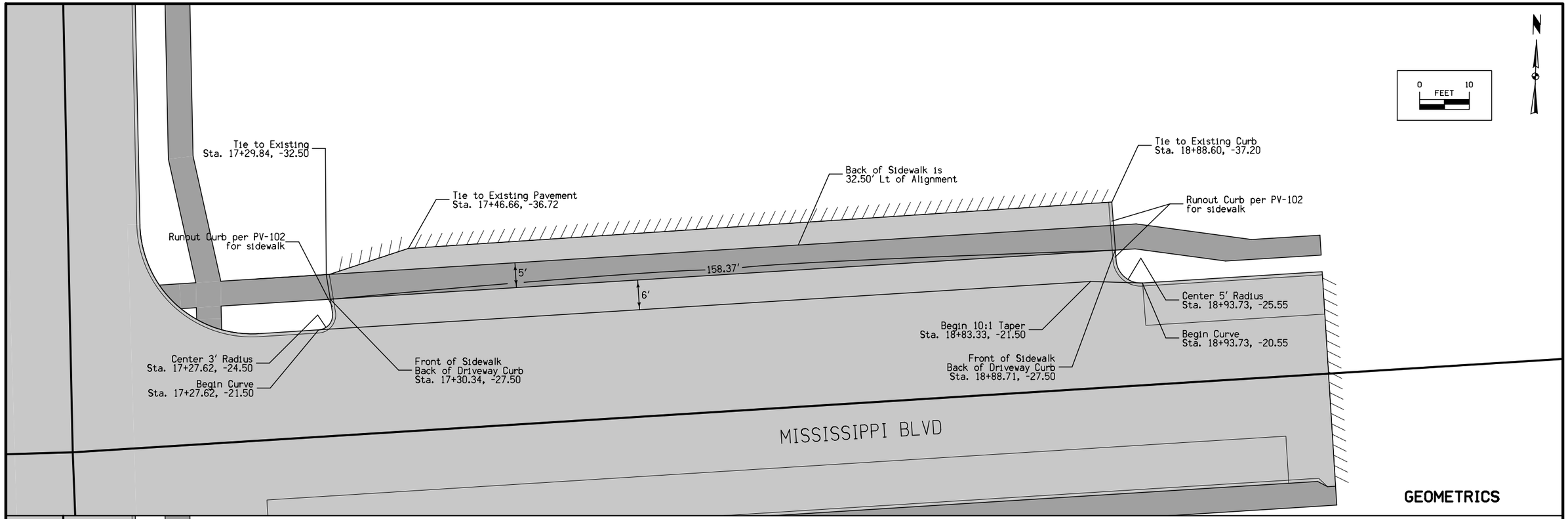
JOINTING

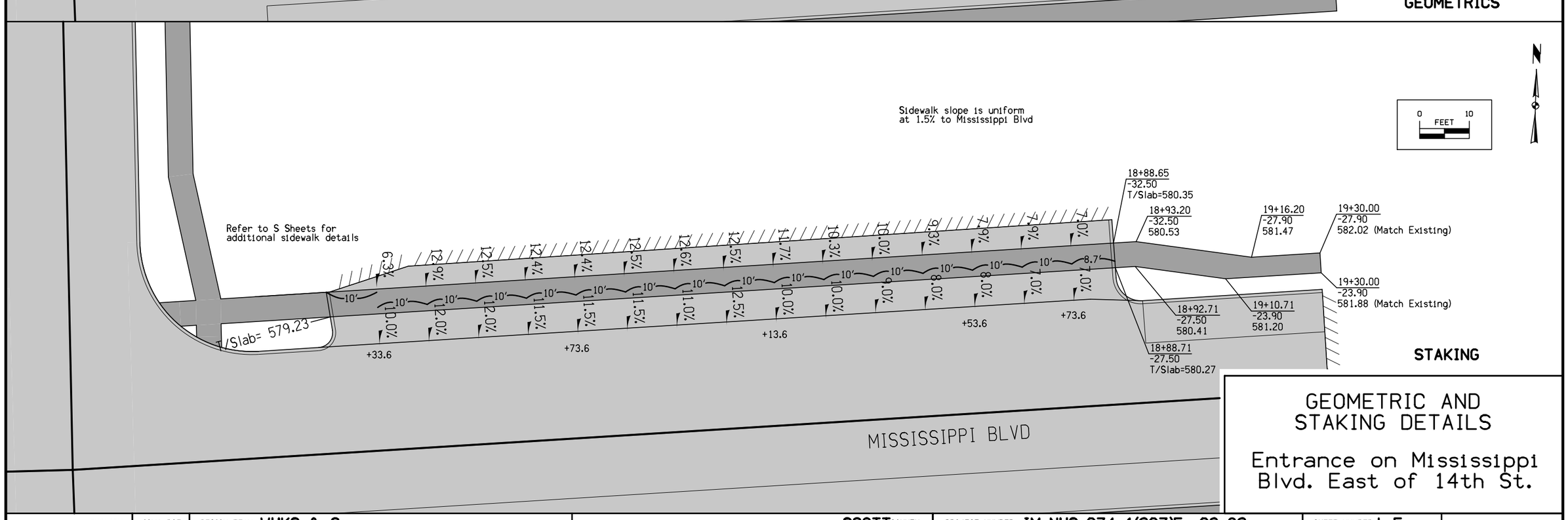
GEOMETRIC, STAKING AND JOINTING DETAILS

Entrance on 14th Street at Sta 25+40

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER L.4

8:44:58 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-L.sht



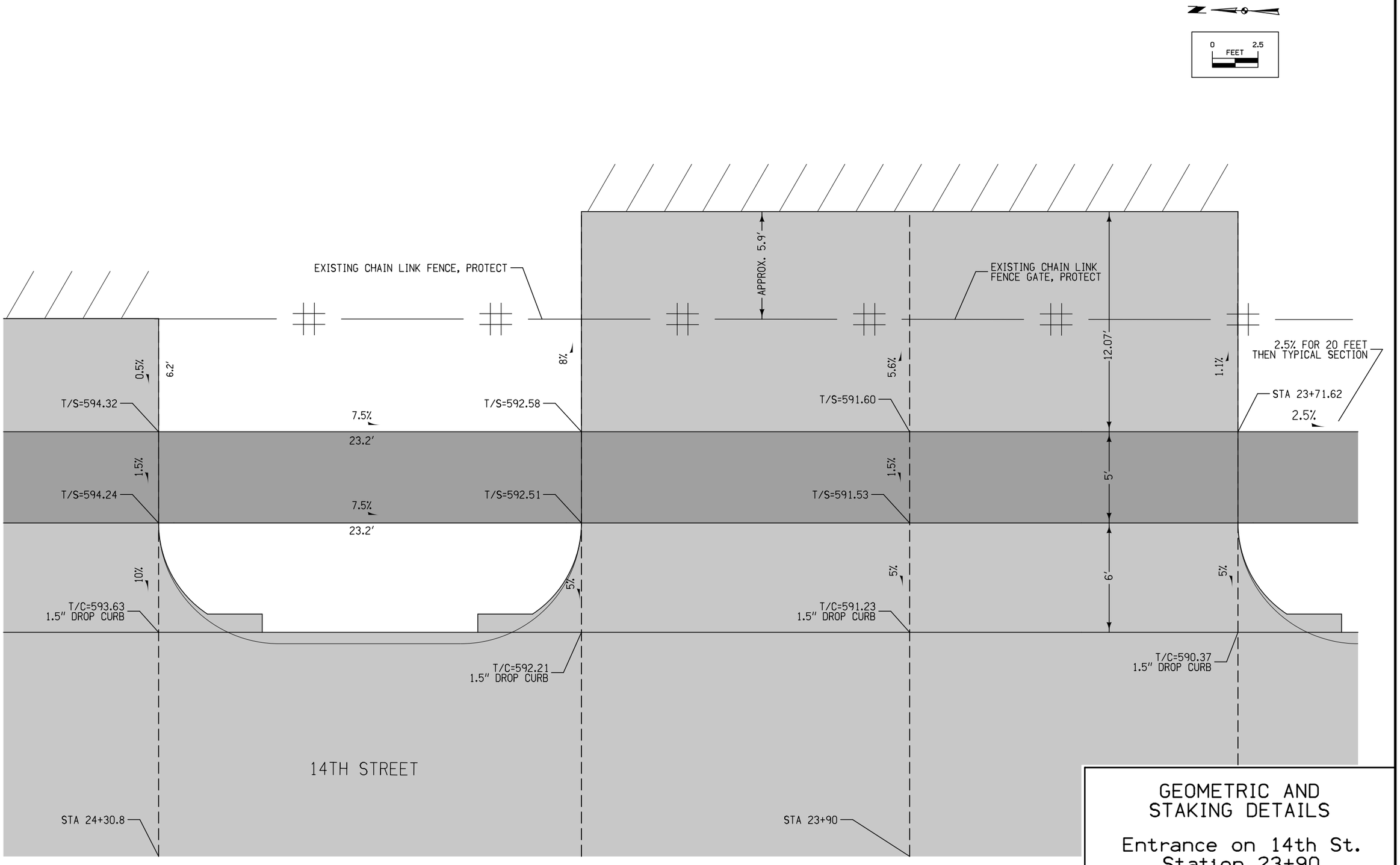


GEOMETRIC AND STAKING DETAILS

Entrance on Mississippi Blvd. East of 14th St.

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER L.5

8:45:02 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-L.sht



GEOMETRIC AND STAKING DETAILS

Entrance on 14th St. Station 23+90

ENGLISH	IOWA DOT	DESIGN TEAM **WHKS & Co.**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **L.6**

8:45:07 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-L.sht

STORM SEWER

(1) Diameter or equivalent diameter
* Bid Item
** For SW-545

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
693	25+68.00, 14.50' Rt.	SW-507L	605.74	599.65		14TH ST Div. (2)
694	25+60.00, 14.50' Lt.	SW-508R	604.85	599.26		14TH ST Div. (2)
695	25+71.16, 17.93' Lt.	48" SW-401	606.74	599.61		14TH ST Div. (2)
460	25+60.00, 22.81' Lt.	48" SW-401	605.68	599.1		14TH ST Div. (2)
448	23+25.00, 14.50' Rt.	SW-507L	588.42	583.94		14TH ST Div. (2)
447	23+25.00, 14.50' Lt.	SW-508R	588.42	583.55		14TH ST Div. (2)
445	20+55.00, 14.50' Rt.	SW-507L	579.54	574.25		14TH ST Div. (1)
446	20+55.00, 14.50' Lt.	SW-507R	579.54	572.36		14TH ST Div. (1)
909	20+54.88, 29.77' Lt.	60" SW-401	579.86	572.08		14TH ST Div. (3)
455	17+16.83, 21.50' Rt.	SW-541S	577.92	573.6		MISS BLVD Div. (2)
459	17+17.10, 32.20' Rt.	60" SW-401	578.2	573		MISS BLVD Div. (2)
463	19+66.43, 27.68' Lt.	96" SW-401	578.8	567.6		14TH ST Div. (3)
768	18+25.00, 14.50' Lt.	SW-507R	576.26	572.26		14TH ST Div. (1)
745	18+25.00, 25.00' Lt.	96" SW-401	577.18	566.97		14TH ST Div. (3)
444	16+84.23, 31.30' Rt.	SW-511	580.94	574.7		14TH ST Div. (1)
443	16+99.00, 14.50' Rt.	48" SW-502	575.35	570.6		14TH ST Div. (1)
441	15+37.18, 19.48' Lt.	SW-501	577.67	573.09	Note 3	14TH ST Div. (2)
442	15+45.88, 16.16' Rt.	48" SW-502	577.3	572.27		14TH ST Div. (2)
	Existing Structures (For Information Only)					
e10	17+58.78, 16.16' Lt.	SW-401				UAC, connect P745 to Structure
e11	16+74.19, 25.16' Lt.	SW-401				UAC, connect P443 to Structure
e12	16+11.08, 85.45' Lt.	SW-401				UAC, connect P442 to Structure

PIPES

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for estimated length to center of structures.

Line Number	Intake/ Utility Access No. From	To	Class 'D'	(1) Pipe Size IN	Bid* Length FT	Design Length FT	Slope %	Connected Pipe Joint (DR-121) Type	Flow Lines Inlet Elevation	Outlet Elevation	Other Elevation	Pipe Profile Sheet No.	Notes
P693	693	694	2000D	15	35	30.1	0.9641		600.15	599.86		M.6	Div. (2)
P694	694	460	2000D	15	7	2.3	2.5974		599.76	599.7		M.6	Div. (2)
P695	695	694	2000D	15	12	7.3	3.4388		600.11	599.86		M.6	Div. (2)
P460	460	447	2000D	15	236	231.1	6.6857		599.6	584.15		M.6	Div. (2)
P448	448	447	2000D	15	33	29.0	1		584.44	584.15		M.6	Div. (2)
P447	447	909	2000D	15	271	266.5	4.0008		584.05	573.39		M.6	Div. (2)
P445	445	446	2000D	15	33	29.0	3.7241		574.75	573.67		M.6	Div. (1)
P446	446	909	2000D	24	15	10.3	1.7527		572.86	572.68		M.6	Div. (1)
P909	909	463	2000D	24	87	83.0	2.3861		572.58	570.6		M.6	Div. (3)
P744	eP-2	459	2000D	24	63	58.8	2.1613		574.87	573.6		M.4	Div. (2) Note 1
P455	455	459	2000D	18	12	7.8	1.2837		574.1	574		M.4	Div. (2)
P459	459	463	2000D	24	67	62.9	2.0041		573.5	572.24		M.4	Div. (1)
P463##	463	745	2000D	54	138	133.5	0.3971		568.1	567.57		M.6	Div. (3)
P768	768	745	2000D	15	8	3.5	1.7143		572.78	572.72		M.6	Div. (1)
P745##	745	e10	2000D	54	63	58.8	0.2211		567.47	567.34		M.6	Div. (3)
P444	444	443	2000D	12	23	18.5	20.788		575.2	571.35		M.6	Div. (1) Note 2
P443	443	e11	2000D	18	45	40.5	0.9138		571.1	570.73		M.6	Div. (1)
P441	441	442	2000D	15	38	33.0	1.7262		573.59	573.02		M.6	Div. (2)
P442	442	e12	2000D	18	127	123.0	1.0813		572.77	571.44		M.6	Div. (2)
##	Gasketed/Sealed sewer pipes required												
	Existing Pipes (For Information Only)												
eP-1	Ex.	Ex.		15		232.0	11.2		628.01	601.95			Tie-in to Proposed Manhole 695 (Elev. at 695 = 603.24)
eP-2	Ex.	Ex.		24		322.0	1.43		578.77	574.18			Tie-in to Pipe P743 at 17+92, 24.12 Note 1
eP-3	25335	26443		24		42.6	1.76		574.63	573.88			Note 5

Notes:
1. Provide 2 "D" Sections per Standard Road Plan DR-141 to tie into existing storm sewer pipe
2. Pipe extends through retaining wall, see U sheets for add't details & locations of hole in ret wall
3. Structure 441 is to include an SW-603, Type Q casting for driveways
4. Storm Sewer staging is to follow general order of roadway construction.
   Stage 1 - Build storm sewer south of Mississippi Blvd. and in the intersection
   Stage 2 - Build storm sewer along the west side of 14th St. and stubs across 14th St.
   Stage 3 - Build storm sewer east side of 14th St. connecting stubs to prop. intakes east side of 14th
5. Contractor is to field verify all existing pipe sizes and elevations prior to construction.

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- SB — Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- G — Grave
- CV — Cave
- SH — 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

UTILITY LEGEND

- 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

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Topographic Features, Utilities, and Labels
Black	(17)	Proposed Storm Sewer Details, Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	Design Color No.	
Gray, Light	(48)	Proposed Pavement Shading

PROFILE VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Ground Line Profile and Existing Utilities Information
Black	(17)	Proposed Pipes and Intakes

PLAN VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Plug and Abandon Existing Pipe or Structure
- 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

- Reference Point — Survey Line
- Station
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

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

STORM SEWER LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES M)

Ex. 12th St.

Ex. Mississippi Blvd.

Ex. Brown St.

Ex. 15th St.

Mississippi Blvd.

14th St.

Connect Proposed Pipe to Existing Pipe

All cost to connect existing pipe to proposed pipe shall be considered incidental to cost bid for Storm Sewer pipe

TP400

463

P459

455

P744

P455

459

Manhole 459
Rotate Manhole top so lid is oriented on south side of the structure, to keep lid out of the sidewalk.

51.76' Length along Centerline

7.00' Length along Centerline

7° 30'
West Section

7° 30'
East Section

P744 DETAILS

25

20

15

10

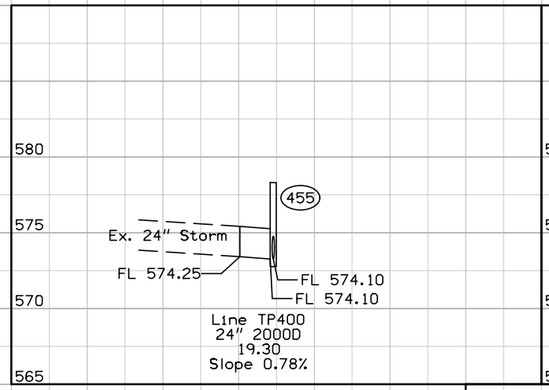
0 FEET 50

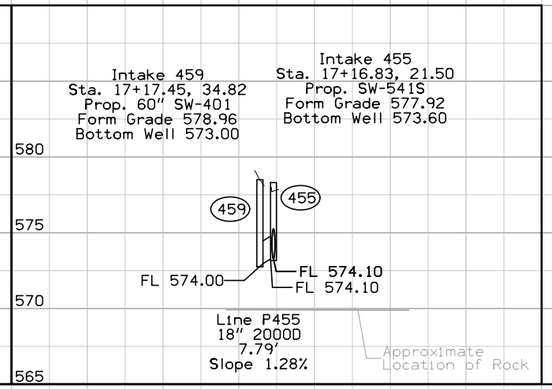
For Storm Sewer Profiles Refer to Sheet No. M.4

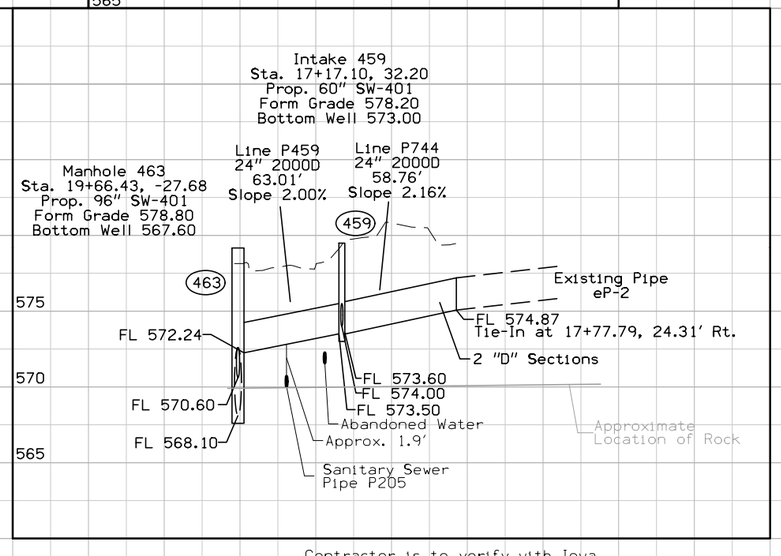
MISSISSIPPI BLVD STORM SEWER

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER M.3

8:45:18 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-M.sht







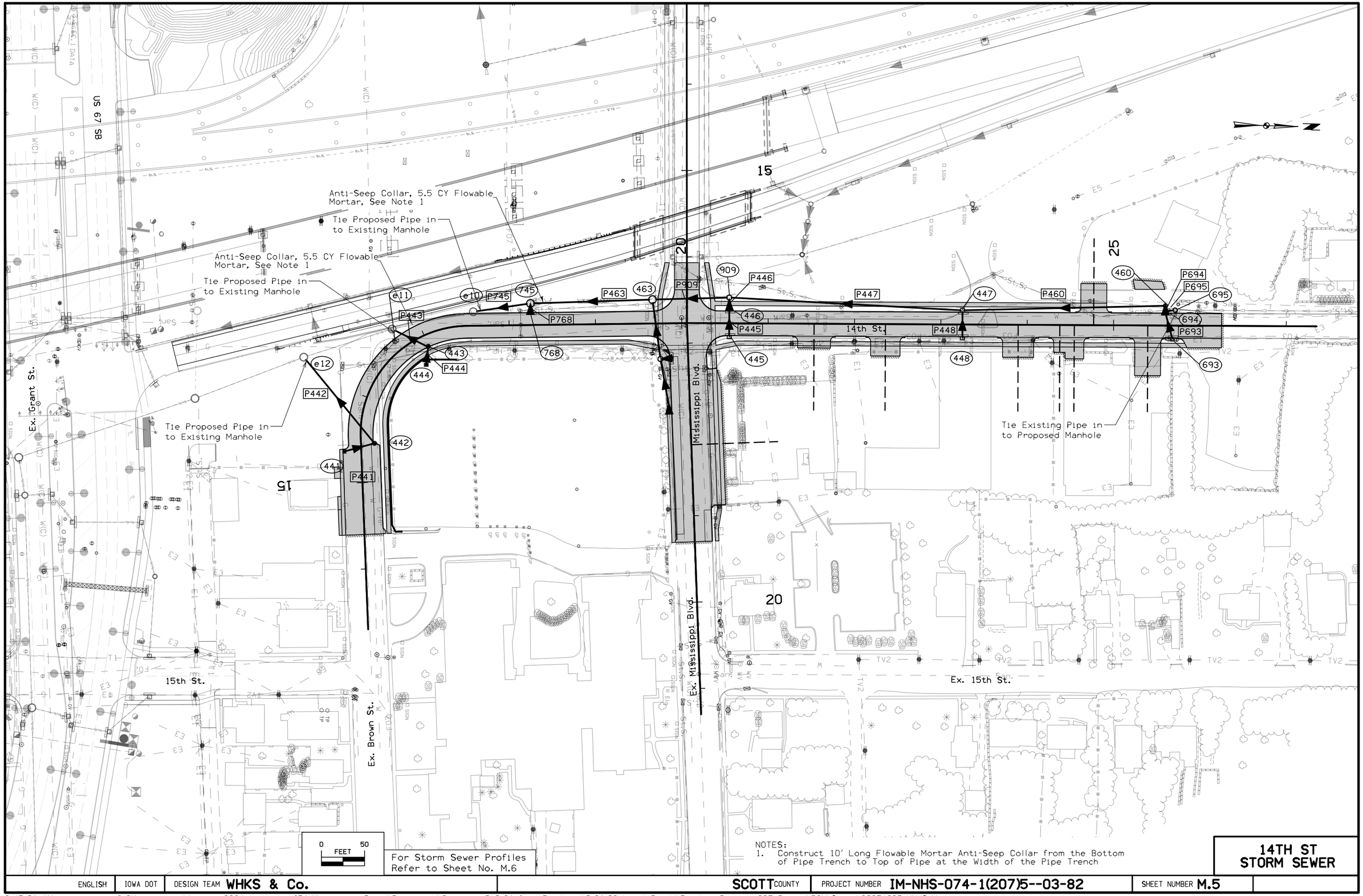
Contractor is to verify with Iowa American Water Company that water main is no longer in service

NOT TO SCALE

MISSISSIPPI BLVD STORM SEWER

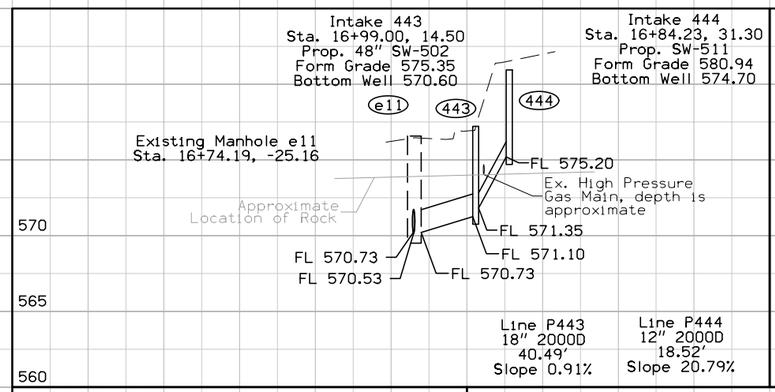
ENGLISH	IOWA DOT	DESIGN TEAM **WHKS & Co.**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **M.4**

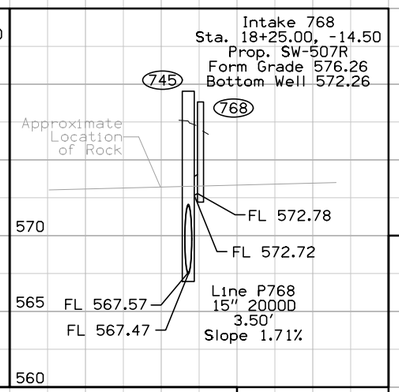
8:45:19 AM v81CH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-M.sht

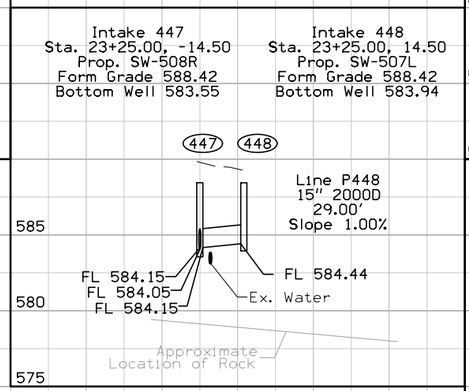


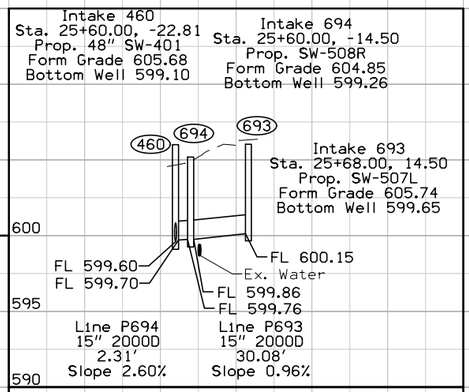
ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER M.5

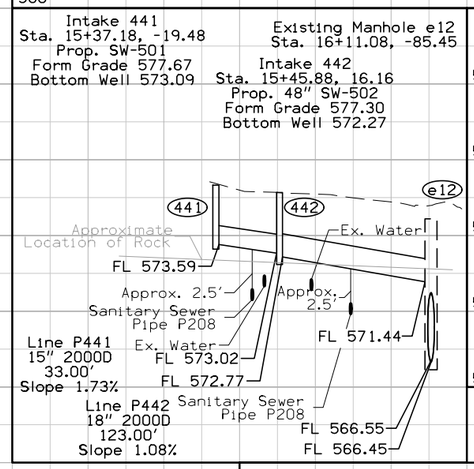
8:45:21 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-M.sht

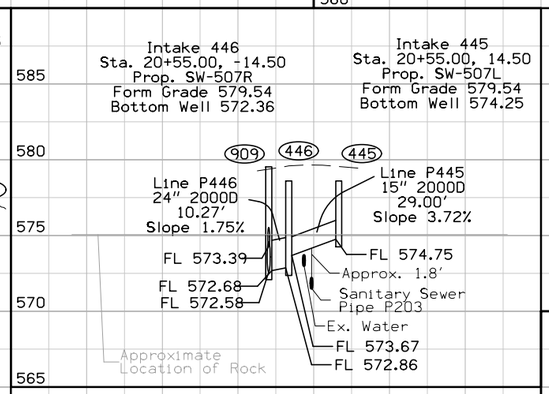


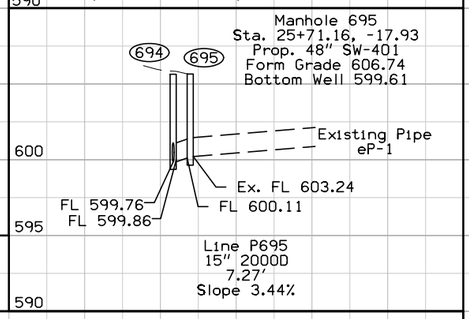


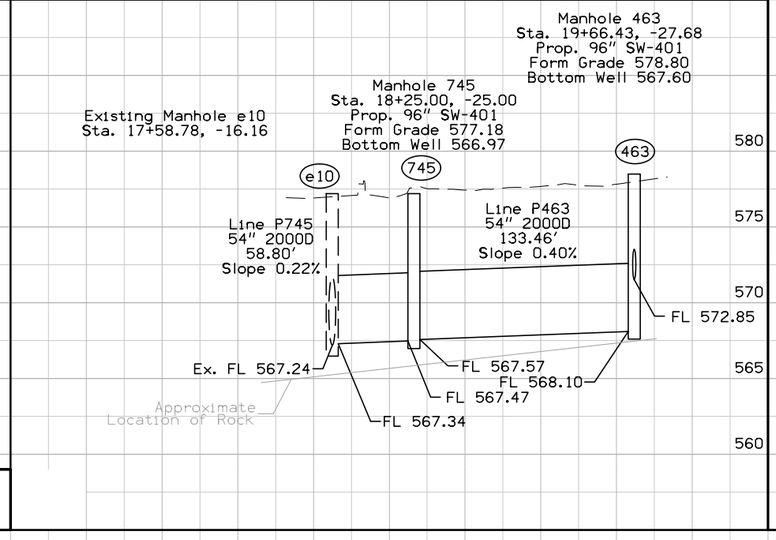


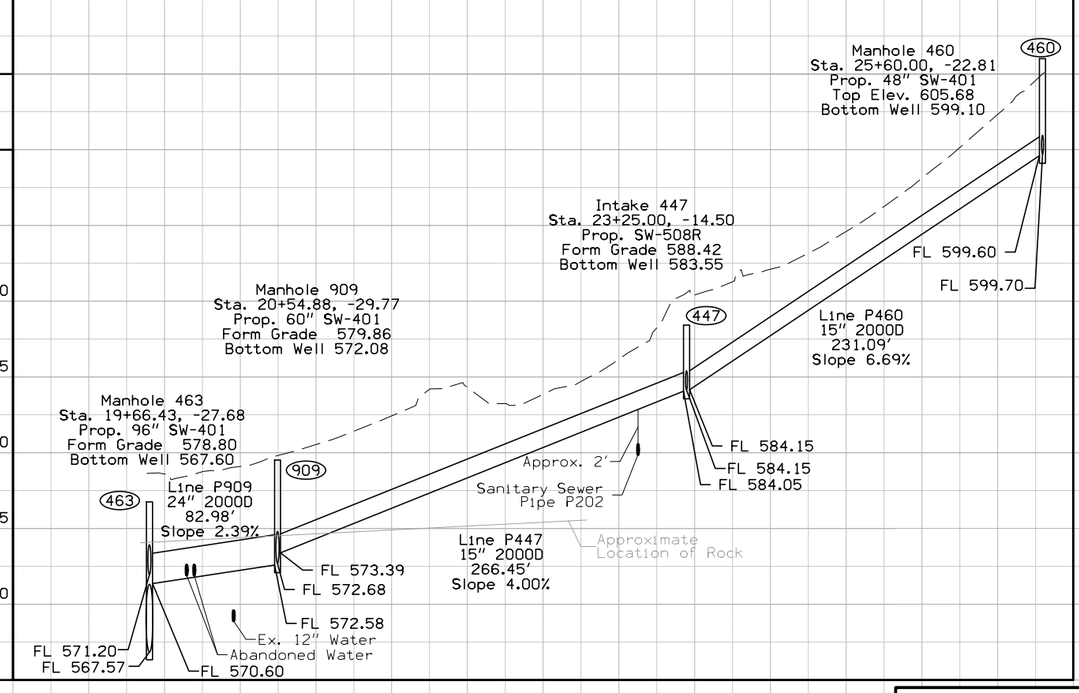












Contractor is to verify with Iowa American Water Company that water main is no longer in service

Contractor is to verify location and elevation of existing water main prior to storm sewer construction

NOT TO SCALE

14TH ST STORM SEWER

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER M.6

8:45:22 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-M.sht

SANITARY SEWER

* Bid Item

UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
201	26+07.65, 26.50' Lt	48" SW-301	609.65	603.4		14th STREET Div. (2)
202	24+72.72, 28.20' Lt	48" SW-301	597.26	568.4		14th STREET Div. (2)
203	21+44.84, 9.50' Lt.	48" SW-301	582.08	573.4		14th STREET Div. (2)
205	20+04.16, 2.90' Rt.	48" SW-301	578.67	569.4		14th STREET Div. (2)
207	18+13.69, 0.70' Lt.	48" SW-301	576.44	568.4		14th STREET Div. (2)

Existing Structures (For Information Only)

e180	17+24.21, 6.57' Lt.	SW-301				UAC, connect P208 to Structure
e181	16+37.38, 34.10' Rt.	SW-301				UAC, connect P207 to Structure

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
P201	201	202	DIP	8	137	131	12.90	603.89	587.00		M.9	Div. (2)
P202	202	203	DIP	8	330	324	3.98	586.90	574.00		M.9	Div. (2)
P215	Ex.	203	DIP	6	41	36	Unk.	Unknown	576.72		M.9	Div. (2), Note 1
P203	203	205	DIP	8	143	137	2.76	573.90	570.11		M.9	Div. (2)
P204	Ex.	205	DIP	8	254	248	2.10	575.34	570.11		M.11	Div. (2)
P205	205	207	DIP	10	193	187	0.38	569.94	569.24		M.9	Div. (2)
P207	207	e180	DIP	10	93	87	0.38	569.14	568.81		M.9	Div. (2)
											M.9	Div. (2)
P208	Ex.	e181	DIP	8	171.94	165.94	1.7579	571.357	568.44		M.9	Div. (2)

Existing Pipes (For Information Only)

e-P50	Ex.	Ex.		8		281		632.28	604.94			Tie-in to Proposed Manhole 201
e-P51	Ex.	Ex.		8		404		577.9	571.8			Tie-in to Pipe P204 at 19+30, 1.33 (Mississippi Blvd.)
e-P52	Ex.	Ex.		8		410		573.43	565.15			Tie-in to Pipe P208 at 14+40, 0.69 (14th St.)

Notes:

1. 6" pipe acts as service to 619 14th St. SE. Build P215 from MH 203 to the end of driveway construction (36 LF). All fittings required to connect P215 to existing sanitary sewer pipe shall be considered incidental to sanitary sewer pipe bid item.
2. Contractor is to field verify all pipe sizes and inverts prior to construction.
3. Sanitary sewer staging is to follow general work staging.
   Stage 1 work is to include all work south of manhole 205 and the south 92 LF of P203.
   Stage 2 work is to include the remaining sanitary sewer work, expect service tie-ins.
   Stage 3 work is to include remaining service work, including tie-ins to existing.
4. By pass pumping will be required during construction and shall be considered incidental to sanitary sewer pipe construction.

For Sanitary Sewer Service Stub Details
Refer to Tabulation WHKS-1 on C Sheets

Tie Proposed Pipe in to Existing Manhole

Tie Proposed Pipe in to Existing Manhole

Connect Proposed Pipe to Existing Pipe

Tie Existing Pipe in to Proposed Manhole

P207 P205 P203 P215 14th St. P202 P201

207 205 203 202 201

P208

US 67 SB

Ex. Grant St.

Mississippi Blvd.

Ex. Mississippi Blvd.

15th St.

Ex. Brown St.

Ex. 15th St.

15 20 25

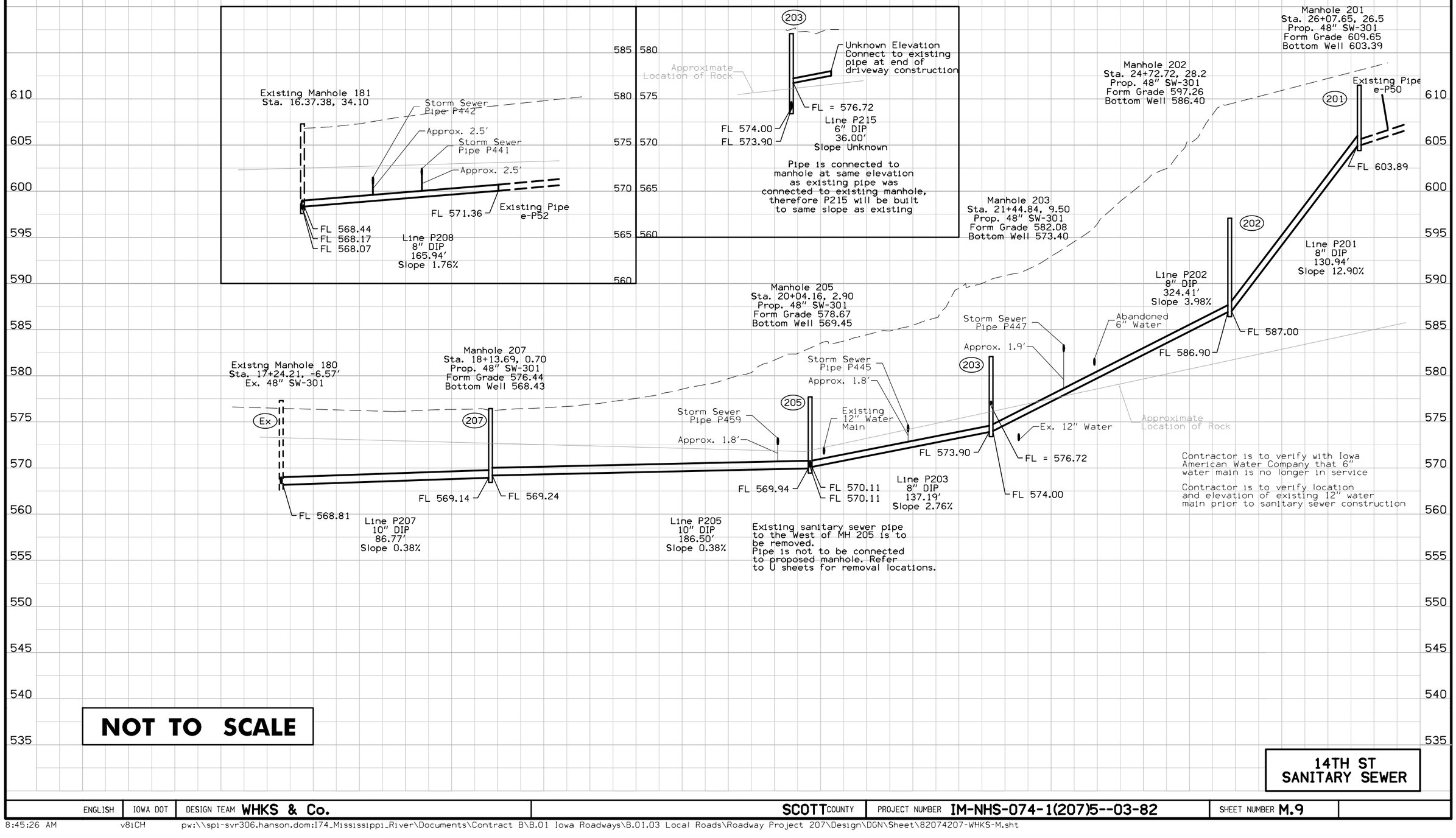
0 50
FEET

For Sanitary Sewer Profiles
Refer to Sheet No. M.9

14TH ST
SANITARY SEWER

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER M.8	

8:45:25 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-M.sht



NOT TO SCALE

14TH ST
SANITARY SEWER

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER M.9

For Sanitary Sewer Service Stub Details
Refer to Tabulation WHKS-1 on C Sheets

Ex. 12th St.

Ex. 15th St.

Approximately 5 feet
between pipe and
edge of Stage 2 pavement

Ex. Mississippi Blvd.

Mississippi Blvd.

P204

205

Connect Proposed Pipe
to Existing Pipe

14th St.

Ex. Brown St.

0 FEET 50

For Sanitary Sewer Profiles
Refer to Sheet No. M.11

MISSISSIPPI BLVD SANITARY SEWER

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER M.10

620
615
610
605
600
595
590
585
580
575
570
565
560
555
550
545

Manhole 205
Sta. 20+04.16, 2.90
Prop. 48" SW-301
Form Grade 578.67
Bottom Well 569.45

Line P204
8" DIP
248.45'
Slope 2.10%

Existing Pipe
e-P51

205

Tie Into
Existing

FL 570.11
FL 570.11
FL 569.95

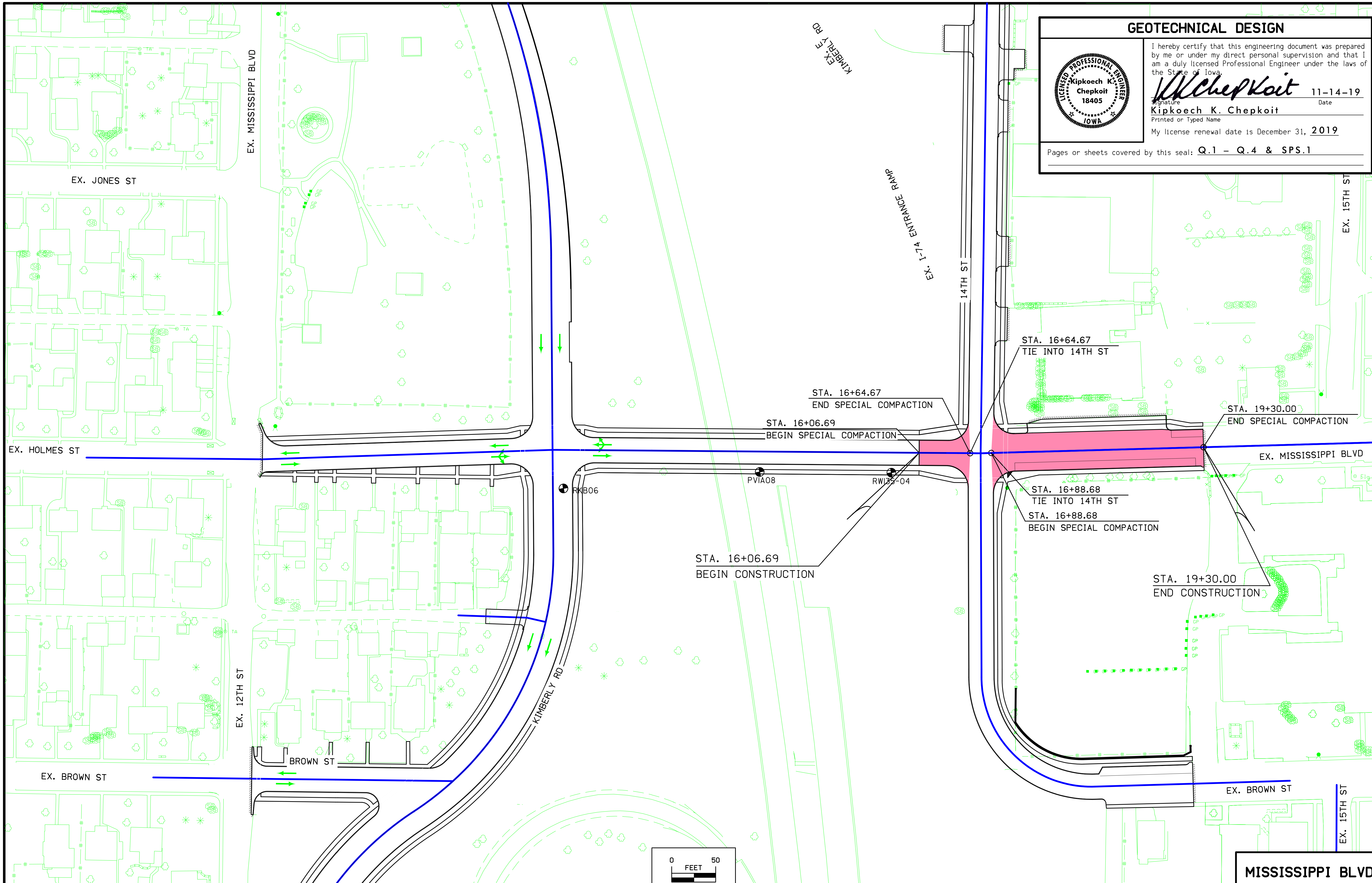
Approximate
Location of Rock

NOT TO SCALE

**MISSISSIPPI BLVD
SANITARY SEWER**

ENGLISH	IOWA DOT	DESIGN TEAM **WHKS & Co.**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **M.11**

8:45:29 AM v81CH pw:\\sp1-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-M.sht



GEOTECHNICAL DESIGN

LICENSED PROFESSIONAL ENGINEER
Kipkoech K. Chepkoit
18405
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: KKChepkoit   Date: 11-14-19

Printed or Typed Name: Kipkoech K. Chepkoit

My license renewal date is December 31, 2019

Pages or sheets covered by this seal: Q.1 – Q.4 & SPS.1

MISSISSIPPI BLVD

ENGLISH	IOWA DOT	DESIGN TEAM	HANSON PROFESSIONAL SERVICES	SCOTT	COUNTY	PROJECT NUMBER	IM-NHS-074-1(207)5--03-82	SHEET NUMBER	Q.1

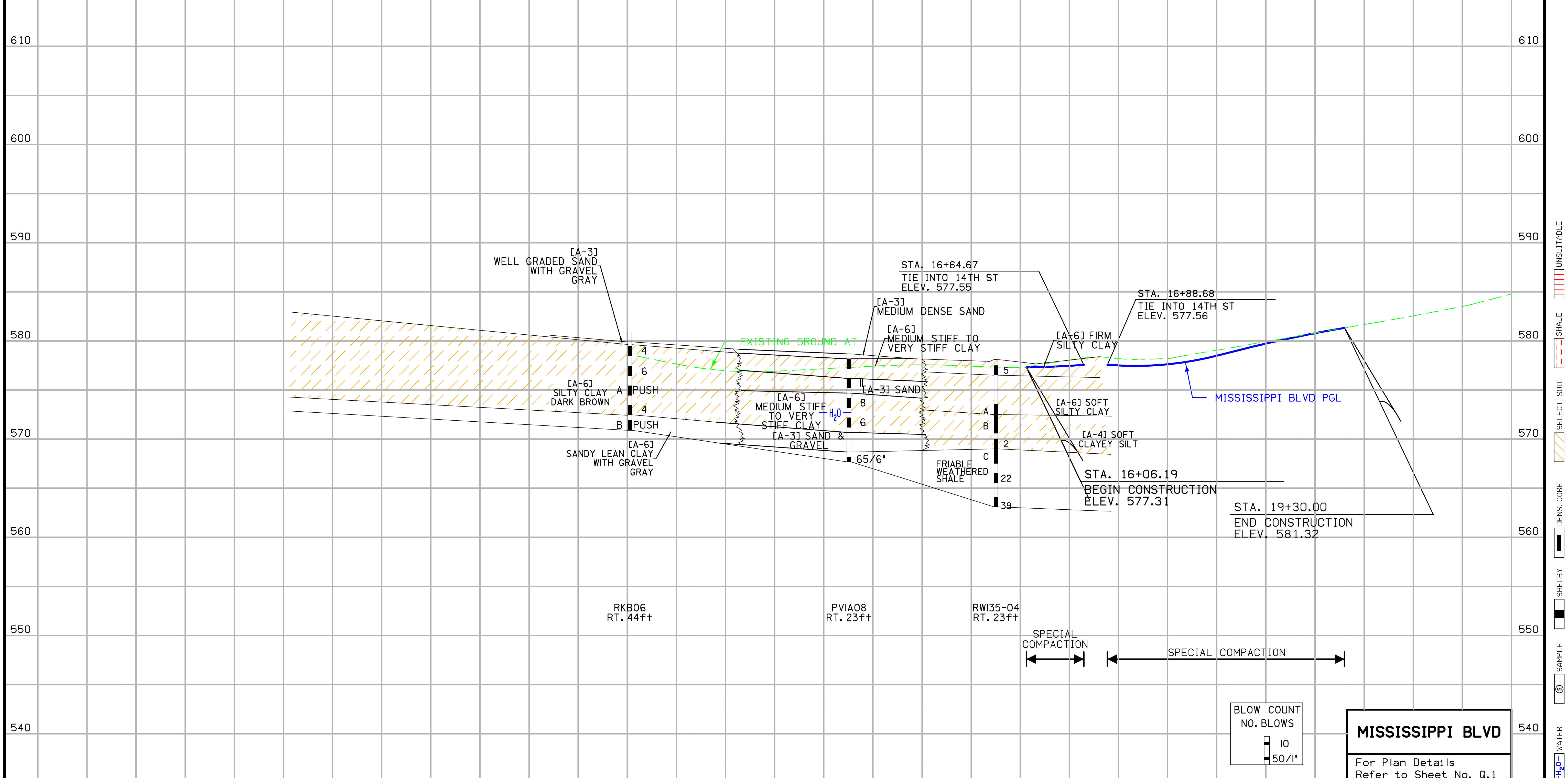
9:55:56 AM   k_lstapdise_work\do_not_delete\dms01327\82074122-HPS-Q-057.sht

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

SHELBY TUBE CORE DATA

CORE NO.	RKB06-A	RKB06-B	RW135-04-A	RW135-04-B	RW135-04-C
CLASSIFICATION [AASHTO]	A-6	A-6	A-6	A-6	A-4
COEFF. CONSOL. SQ.FT /DAY	-	-	-	-	-
TRIAXIAL COMPRESSION	-	-	UC	UU	UC
COHESION - PSF	-	-	846	444	760
FRICTION COEFF.	-	-	-	-	-
MOISTURE CONTENT %	-	-	22.8	45.3	12.9
DRY DENSITY - PCF	-	-	89.5	79.0	140

UU-UNCONSOLIDATED & UNDRAINED
UC-CONSOLIDATED & UNDRAINED



ENGLISH	IOWA DOT	DESIGN TEAM	HANSON PROFESSIONAL SERVICES	SCOTT	COUNTY	PROJECT NUMBER	IM-NHS-074-1(207)5--03-82	SHEET NUMBER	Q.2

10:07:31 AM k_lstapwise_work\do_not_delete\dms01327\82074122-HPS-Q-057.sht

EX. I-74 ENT. RAMP

74

EX. E KIMBERLY RD

EX. I-74 ENT. RAMP

STA. 26+25
END SPECIAL COMPACTION

EX. 14TH ST

EX. 14TH ST

67

RD1022

20

25

MISSISSIPPI BLVD

8

PW17501

15

STA. 26+25.00
END CONSTRUCTION

STA. 14+40.00
BEGIN CONSTRUCTION

STA. 14+40
BEGIN SPECIAL COMPACTION

EX. 15TH ST

EX. BROWN ST

EX. MISSISSIPPI BLVD

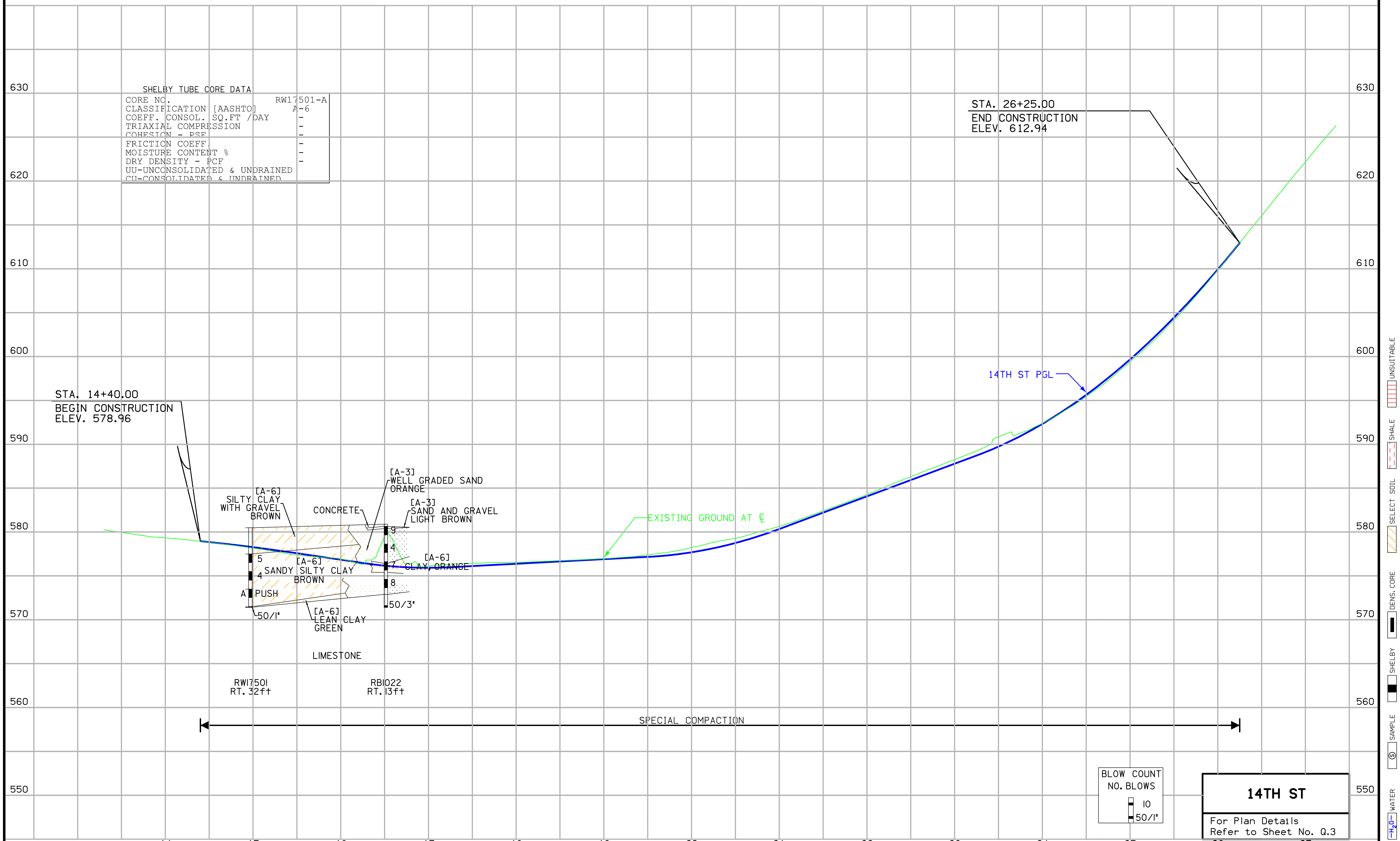
0 FEET 50

14TH ST

ENGLISH	IOWA DOT	DESIGN TEAM	HANSON PROFESSIONAL SERVICES	SCOTT	COUNTY	PROJECT NUMBER	IM-NHS-074-1(207)5--03-82	SHEET NUMBER	Q.3

10:08:58 AM :k_local\...\do_not_delete\dms01327\82074122-HPS-Q-057.sht

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


630
620
610
600
590
580
570
560
550
SHELBY TUBE CORE DATA
CORE NO. RW17501-A
CLASSIFICATION [AASHTO] A-6
COEFF. CONSOL. SQ.FT /DAY -
TRIAXIAL COMPRESSION -
COHESION - PSF -
FRICTION COEFF. -
MOISTURE CONTENT % -
DRY DENSITY - PCF -
UU-UNCONSOLIDATED & UNDRAINED
CU-CONSOLIDATED & UNDRAINED
STA. 26+25.00
END CONSTRUCTION
ELEV. 612.94
STA. 14+40.00
BEGIN CONSTRUCTION
ELEV. 578.96
14TH ST PGL
EXISTING GROUND AT ℄
[A-3] WELL GRADED SAND ORANGE
[A-6] SILTY CLAY WITH GRAVEL BROWN
CONCRETE
[A-3] SAND AND GRAVEL LIGHT BROWN
[A-6] SANDY SILTY CLAY BROWN
[A-6] CLAY, ORANGE
A PUSH
50/1"
50/3"
[A-6] LEAN CLAY GREEN
LIMESTONE
RW17501 RT. 32ft
RB1022 RT. 13ft
SPECIAL COMPACTION
BLOW COUNT NO. BLOWS
10
50/1"
14TH ST
For Plan Details
Refer to Sheet No. Q.3
14
15
16
17
18
19
20
21
22
23
24
25
26
27
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-NHS-074-1(207)5--03-82	SHEET NUMBER Q.4

DESIGN FOR A

261'-2 x VARI. HEIGHT REINFORCED CONCRETE RETAINING WALL SOIL PROFILE SHEET

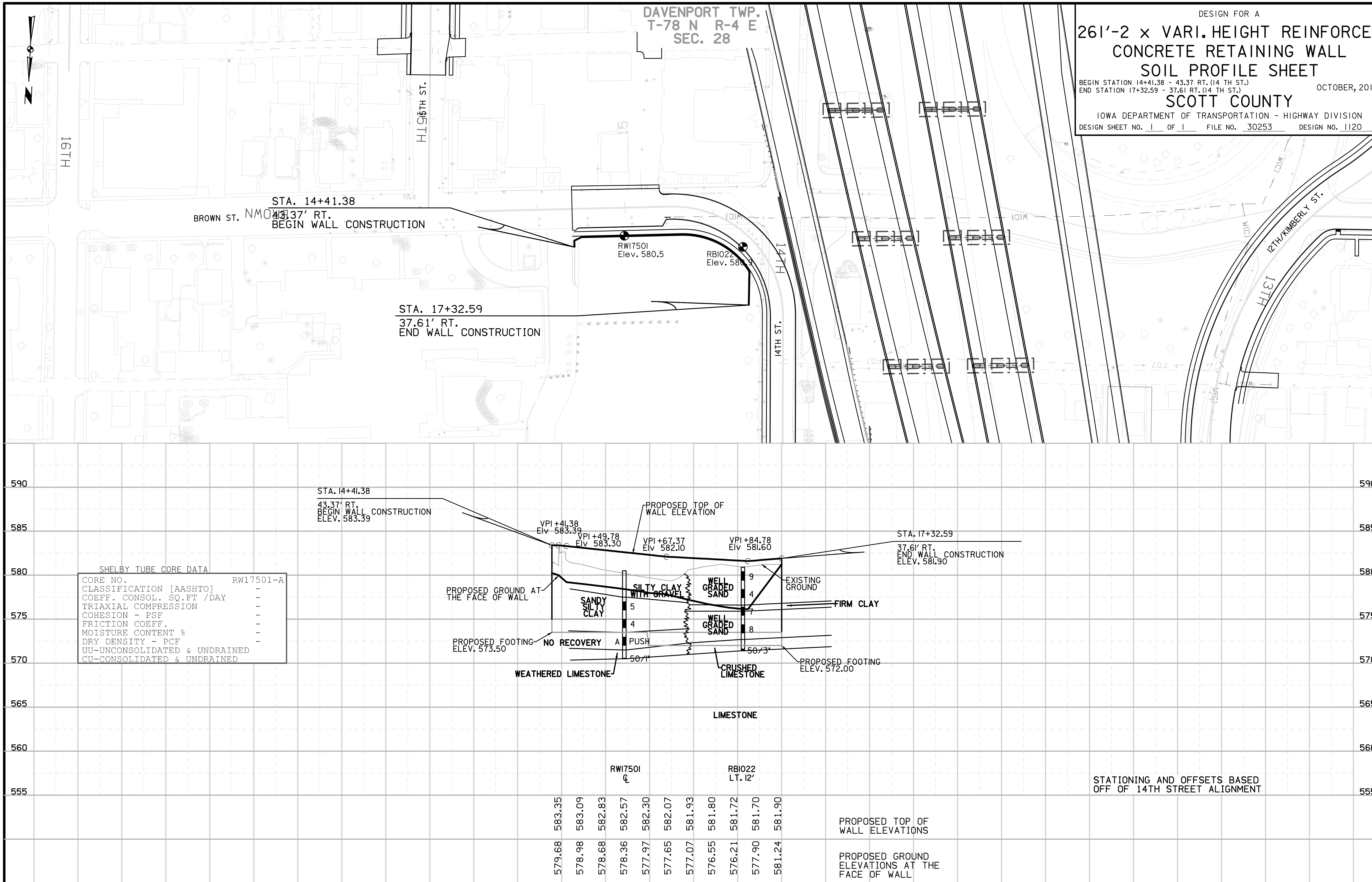
BEGIN STATION 14+41.38 - 43.37 RT. (14 TH ST.)
END STATION 17+32.59 - 37.61 RT. (14 TH ST.)

OCTOBER, 2014

SCOTT COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 1 OF 1 FILE NO. 30253 DESIGN NO. 1120



DAVENPORT TWP.
T-78 N R-4 E
SEC. 28
16TH
15TH ST.
15TH
BROWN ST.
STA. 14+41.38
43.37' RT.
BEGIN WALL CONSTRUCTION
RW17501
Elev. 580.5
RB1022
14TH
STA. 17+32.59
37.61' RT.
END WALL CONSTRUCTION
14TH ST.
12TH/KIMBERLY ST.
13TH
590
585
580
575
570
565
560
555
SHELBY TUBE CORE DATA
CORE NO. RW17501-A
CLASSIFICATION [AASHTO] -
COEFF. CONSOL. SQ.FT /DAY -
TRIAXIAL COMPRESSION -
COHESION - PSF -
FRICTION COEFF. -
MOISTURE CONTENT % -
DRY DENSITY - PCF -
UU-UNCONSOLIDATED & UNDRAINED
CU-CONSOLIDATED & UNDRAINED
STA. 14+41.38
43.37' RT.
BEGIN WALL CONSTRUCTION
ELEV. 583.39
PROPOSED TOP OF WALL ELEVATION
VPI +41.38
Elv 583.39
VPI +49.78
Elv 583.30
VPI +67.37
Elv 582.10
VPI +84.78
Elv 581.60
STA. 17+32.59
37.61' RT.
END WALL CONSTRUCTION
ELEV. 581.90
PROPOSED GROUND AT THE FACE OF WALL
SANDY SILTY CLAY
SILTY CLAY WITH GRAVEL
WELL GRADED SAND
EXISTING GROUND
FIRM CLAY
WELL GRADED SAND
PROPOSED FOOTING ELEV. 573.50
NO RECOVERY
PUSH
50/1"
50/3"
PROPOSED FOOTING ELEV. 572.00
WEATHERED LIMESTONE
CRUSHED LIMESTONE
LIMESTONE
RW17501
℄
RB1022
LT. 12'
STATIONING AND OFFSETS BASED OFF OF 14TH STREET ALIGNMENT
583.35 583.09 582.83 582.57 582.30 582.07 581.93 581.80 581.72 581.70 581.90
PROPOSED TOP OF WALL ELEVATIONS
579.68 578.98 578.68 578.36 577.97 577.65 577.07 576.55 576.21 577.90 581.24
PROPOSED GROUND ELEVATIONS AT THE FACE OF WALL

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- SB — Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- T — Cemetery
- G — Grave
- CV — Cave
- SH — 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

UTILITY LEGEND

- 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 PLAN AND PROFILE SHEETS

LINEWORK	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.**	
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading
Brown, Light	(236)	Grading Shading

- Reference Point — Survey Line
- Station — Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

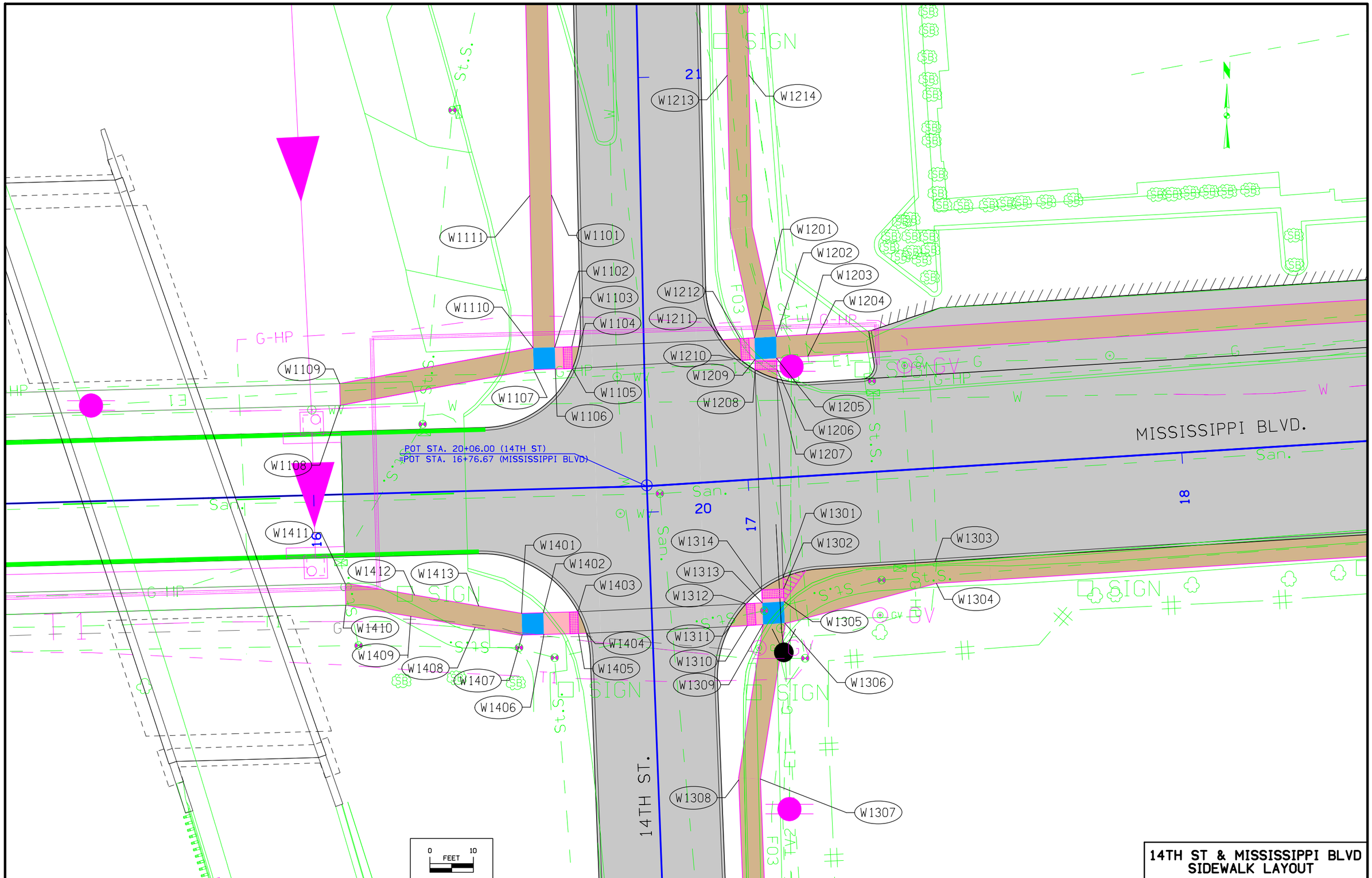
- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C — Access Control

SIDEWALK LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES S)

ENGLISH	IOWA DOT	DESIGN TEAM **WHKS & Co.**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **S.1**

8:43:04 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-S.sht



ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER S.2

14TH ST & MISSISSIPPI BLVD SIDEWALK LAYOUT

8:43:06 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-S.sht

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
W1101	W1102	Sidewalk Running Slope	4	35.00	-1.37	-3.9%	0.5% to 5.0%								
W1101	W1111	Sidewalk Cross Slope	4	5.00	0.08	1.5%	0.5% to 2.0%					W1102	20+38.38	-20.50	579.35
W1102	W1103	Ramp Running Slope	6	3.92	-0.25	-6.3%	0.5% to 8.3%					W1103	20+38.40	-16.58	579.11
W1102	W1106	Landing/Turning Space	4	5.00	-0.08	-1.5%	0.1% to 2.0%					W1104	20+38.41	-14.93	579.17
W1102	W1110	Landing/Turning Space	4	5.00	0.07	1.5%	0.1% to 2.0%					W1105	20+33.40	-16.55	579.03
W1103	W1104	Sidewalk Running Slope	4	1.65	0.06	3.9%	0.5% to 5.0%					W1106	20+33.38	-20.47	579.28
W1103	W1105	Sidewalk Cross Slope	4	5.00	-0.08	-1.5%	0.5% to 2.0%					W1107	20+33.34	-25.47	579.35
W1105	W1106	Ramp Running Slope	6	3.92	0.25	6.3%	0.5% to 8.3%					W1108	20+26.08	-70.10	577.92
W1106	W1107	Landing/Turning Space	4	5.00	0.08	1.5%	0.1% to 2.0%					W1109	20+31.08	-70.13	578.00
W1107	W1108	Sidewalk Running Slope	4	45.22	-1.43	-3.2%	0.5% to 5.0%					W1110	20+38.35	-25.50	579.43
W1107	W1110	Landing/Turning Space	4	5.00	0.07	1.5%	0.1% to 2.0%					W1111	20+73.38	-25.50	580.80
W1108	W1109	Sidewalk Cross Slope	4	5.00	0.08	1.5%	0.5% to 2.0%								
W1109	W1110	Sidewalk Running Slope	4	45.22	1.43	3.2%	0.5% to 5.0%								
W1110	W1111	Sidewalk Running Slope	4	35.00	1.37	3.9%	0.5% to 5.0%								
W1201	W1202	Landing/Turning Space	4	5.00	0.07	1.5%	0.1% to 2.0%					W1201	20+39.58	25.50	579.10
W1201	W1209	Landing/Turning Space	4	5.00	-0.08	-1.5%	0.1% to 2.0%					W1202	20+39.79	30.50	579.18
W1201	W1212	Ramp Running Slope	6	3.31	-0.10	-2.9%	0.5% to 8.3%					W1203	20+40.07	37.47	579.11
W1201	W1213	Sidewalk Running Slope	4	60.99	2.32	3.8%	0.5% to 5.0%					W1204	20+35.08	37.68	579.06
W1202	W1203	Sidewalk Running Slope	4	6.98	-0.07	-0.9%	0.5% to 5.0%					W1205	20+34.78	30.50	579.10
W1202	W1205	Landing/Turning Space	4	5.00	-0.07	-1.5%	0.1% to 2.0%					W1206	20+32.23	30.50	578.92
W1202	W1214	Sidewalk Running Slope	4	60.99	2.32	3.8%	0.5% to 5.0%					W1207	20+30.02	30.50	578.76
W1203	W1204	Sidewalk Cross Slope	4	5.00	-0.05	-1.1%	0.5% to 2.0%					W1208	20+32.23	25.50	578.86
W1204	W1205	Sidewalk Running Slope	4	7.19	0.04	0.6%	0.5% to 5.0%					W1209	20+34.56	25.50	579.03
W1205	W1206	Ramp Running Slope	6	2.56	-0.19	-7.3%	0.5% to 8.3%					W1210	20+34.45	22.40	578.93
W1205	W1209	Landing/Turning Space	4	5.00	-0.08	-1.5%	0.1% to 2.0%					W1211	20+39.28	18.15	579.11
W1206	W1207	Ramp Running Slope	6	2.20	-0.16	-7.1%	0.5% to 8.3%					W1212	20+39.44	22.19	579.01
W1206	W1208	Ramp Cross Slope	6	5.00	-0.06	-1.1%	0.1% to 2.0%					W1213	21+00.08	20.50	581.42
W1208	W1209	Ramp Running Slope	6	2.35	0.17	7.1%	0.5% to 8.3%					W1214	21+00.08	25.50	581.50
W1209	W1210	Ramp Running Slope	6	3.11	-0.10	-3.1%	0.5% to 8.3%								
W1210	W1212	Ramp Cross Slope	6	5.00	0.07	1.5%	0.1% to 2.0%								
W1211	W1212	Sidewalk Running Slope	4	4.04	-0.10	-2.5%	0.5% to 5.0%								
W1213	W1214	Sidewalk Cross Slope	4	5.00	0.07	1.5%	0.5% to 2.0%								
W1301	W1302	Sidewalk Running Slope	4	2.61	0.04	1.7%	0.5% to 5.0%					W1301	19+83.75	30.50	577.90
W1302	W1305	Ramp Running Slope	6	2.88	0.19	6.5%	0.5% to 8.3%					W1302	19+81.14	30.50	577.95
W1302	W1314	Sidewalk Cross Slope	4	5.00	-0.08	-1.5%	0.5% to 2.0%					W1303	19+86.05	65.60	578.41
W1303	W1304	Sidewalk Cross Slope	4	5.00	0.08	1.5%	0.5% to 2.0%					W1304	19+81.06	65.72	578.49
W1304	W1306	Sidewalk Running Slope	4	36.09	-0.28	-0.8%	0.5% to 5.0%					W1305	19+78.26	30.50	578.13
W1305	W1306	Landing/Turning Space	4	5.00	0.07	1.5%	0.1% to 2.0%					W1306	19+73.26	30.50	578.21
W1305	W1313	Landing/Turning Space	4	5.00	-0.08	-1.5%	0.1% to 2.0%					W1307	19+37.65	23.50	577.63
W1306	W1307	Sidewalk Running Slope	4	36.31	-0.58	-1.6%	0.5% to 5.0%					W1308	19+37.65	18.50	577.55
W1306	W1309	Landing/Turning Space	4	5.00	-0.07	-1.5%	0.1% to 2.0%					W1309	19+73.14	25.50	578.13
W1307	W1308	Sidewalk Cross Slope	4	5.00	-0.08	-1.5%	0.5% to 2.0%					W1310	19+73.06	21.89	577.92
W1308	W1309	Sidewalk Running Slope	4	36.19	0.58	1.6%	0.5% to 5.0%					W1311	19+72.96	17.87	577.81
W1309	W1310	Ramp Running Slope	6	3.61	-0.21	-5.8%	0.5% to 8.3%					W1312	19+78.05	21.77	577.85
W1309	W1313	Landing/Turning Space	4	5.00	-0.08	-1.5%	0.1% to 2.0%					W1313	19+78.14	25.50	578.06
W1310	W1311	Sidewalk Running Slope	4	4.02	-0.11	-2.8%	0.5% to 5.0%					W1314	19+81.14	25.50	577.87
W1310	W1312	Sidewalk Cross Slope	4	5.00	-0.08	-1.5%	0.5% to 2.0%								
W1312	W1313	Ramp Running Slope	6	3.73	0.21	5.6%	0.5% to 8.3%								
W1313	W1314	Ramp Running Slope	6	3.00	-0.19	-6.3%	0.5% to 8.3%								
W1401	W1402	Landing/Turning Space	4	5.00	-0.08	-1.5%	0.1% to 2.0%					W1401	19+77.87	-29.94	578.38
W1401	W1407	Landing/Turning Space	4	5.00	0.07	1.5%	0.1% to 2.0%					W1402	19+77.81	-24.94	578.30
W1401	W1413	Sidewalk Running Slope	4	10.00	-0.15	-1.5%	0.5% to 5.0%					W1403	19+77.72	-16.94	577.95
W1402	W1403	Ramp Running Slope	6	8.00	-0.35	-4.4%	0.5% to 8.3%					W1404	19+72.70	-15.17	577.89
W1402	W1406	Landing/Turning Space	4	5.00	0.08	1.5%	0.1% to 2.0%					W1405	19+72.72	-17.00	577.88
W1403	W1405	Ramp Cross Slope	6	5.00	-0.08	-1.5%	0.1% to 2.0%					W1406	19+72.81	-25.00	578.38
W1404	W1405	Sidewalk Running Slope	4	1.83	-0.01	-0.6%	0.5% to 5.0%					W1407	19+72.87	-30.00	578.45
W1405	W1406	Ramp Running Slope	6	8.00	0.50	6.3%	0.5% to 8.3%					W1408	19+75.05	-40.76	578.29
W1406	W1407	Landing/Turning Space	4	5.00	0.07	1.5%	0.1% to 2.0%					W1409	19+78.16	-55.43	578.06
W1407	W1408	Sidewalk Running Slope	4	10.99	-0.16	-1.5%	0.5% to 5.0%					W1410	19+81.30	-70.27	577.84
W1408	W1409	Sidewalk Running Slope	4	15.00	-0.23	-1.5%	0.5% to 5.0%					W1411	19+86.30	-70.21	577.76
W1408	W1413	Sidewalk Cross Slope	4	5.00	-0.06	-1.2%	0.5% to 2.0%					W1412	19+83.05	-54.40	578.00
W1409	W1410	Sidewalk Running Slope	4	15.17	-0.23	-1.5%	0.5% to 5.0%					W1413	19+79.94	-39.72	578.23
W1409	W1412	Sidewalk Cross Slope	4	5.00	-0.06	-1.2%	0.5% to 2.0%								
W1410	W1411	Sidewalk Cross Slope	4	5.00	-0.08	-1.5%	0.5% to 2.0%								
W1411	W1413	Sidewalk Running Slope	4	16.16	0.47	2.9%	0.5% to 5.0%								
W1412	W1413	Sidewalk Running Slope	4	15.00	0.23	1.5%	0.5% to 5.0%								

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Refer to Standard Road Plans EW-101 and EW-102.

STATION	TOTAL CUT	CLASS 10 SUITABLE CUT	ADJUSTED CLASS 10 TOTAL	TOTAL FILL	CLASS 10 SUITABLE + 30% SHRINK	TOTAL FILL WITH SHRINK
14th St.						
14+40.00	24	24	24	5	7	7
14+50.00	62	62	62	14	18	18
14+74.34	52	52	52	14	18	18
15+00.00	11	11	11	3	4	4
15+06.34	31	31	31	10	13	13
15+25.00	20	20	20	7	9	9
15+38.34	15	15	15	8	10	10
15+50.00	25	25	25	20	26	26
15+71.34	5	5	5	4	5	5
15+75.00	136	136	136	38	49	49
16+25.00	145	145	145	18	23	23
16+50.00	156	156	156	17	22	22
16+75.00	109	109	109	36	47	47
17+00.00	91	91	91	32	42	42
17+25.00	24	24	24	2	3	3
17+32.03	56	56	56	5	7	7
17+50.00	41	41	41	4	5	5
17+65.03	26	26	26	2	3	3
17+75.00	54	54	54	5	7	7
17+97.03	7	7	7			
18+00.00	56	56	56	6	8	8
18+25.00	9	9	9	1	1	1
18+29.03	47	47	47	7	9	9
18+50.00	46	46	46	7	9	9
18+75.00	36	36	36	7	9	9
19+00.00	31	31	31	7	9	9
19+25.00	23	23	23	7	9	9
19+50.00	7	7	7	4	5	5
19+60.00	4	4	4	2	3	3
19+67.00	5	5	5	2	3	3
19+75.00	6	6	6	2	3	3
19+86.00	2	2	2			
19+92.00	2	2	2			
20+00.00	6	6	6			
20+20.00	3	3	3			
20+29.00	9	9	9	3	4	4
20+43.00	6	6	6	4	5	5
20+52.00	15	15	15	12	16	16
20+75.00	29	29	29	11	14	14
21+00.00	42	42	42	9	12	12
21+25.00	54	54	54	12	16	16
21+53.00	45	45	45	10	13	13
21+75.00	56	56	56	14	18	18
22+00.00	56	56	56	25	33	33
22+25.00	23	23	23	14	18	18
22+36.00	31	31	31	19	25	25
22+50.00	60	60	60	44	57	57
22+75.00	136	136	136	48	62	62
23+00.00	319	319	319	72	94	94
23+50.00	80	80	80	17	22	22
23+75.00	28	28	28	5	7	7
23+90.00	18	18	18	4	5	5
24+00.00	45	45	45	10	13	13
24+25.00	23	23	23	4	5	5
24+38.00	26	26	26	4	5	5
24+54.00	37	37	37	7	9	9
24+77.00	36	36	36	8	10	10
25+00.00	37	37	37	10	13	13
25+25.00	21	21	21	7	9	9
25+40.00	13	13	13	8	10	10
25+50.00	35	35	35	18	23	23
25+75.00	35	35	35	10	13	13
26+00.00	32	32	32	6	8	8
26+25.00			2,720			925

STATION	TOTAL CUT	CLASS 10 SUITABLE CUT	ADJUSTED CLASS 10 TOTAL	TOTAL FILL	CLASS 10 SUITABLE + 30% SHRINK	TOTAL FILL WITH SHRINK
ssissippi Bl						
16+06.69	23	23	23	7	9	9
16+25.00	23	23	23	10	13	13
16+50.00	54	54	54	21	27	27
17+25.00	34	34	34	7	9	9
17+50.00	41	41	41	5	7	7
17+75.00	48	48	48	5	7	7
18+00.00	49	49	49	6	8	8
18+25.00	50	50	50	6	8	8
18+50.00	51	51	51	6	8	8
18+75.00	55	55	55	7	9	9
19+00.00	55	55	55	10	13	13
19+25.00	10	10	10	2	3	3
19+30.00			493			121

FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER T.1

LEGEND

- PAVEMENT REMOVAL
- SIDEWALK OR DRIVEWAY REMOVAL
- REMOVAL OF EXISTING STORM SEWER PIPE
- PLUG AND ABANDON EXISTING STORM SEWER PIPE
- REMOVAL OF EXISTING SANITARY SEWER PIPE
- PLUG AND ABANDON EXISTING SANITARY SEWER PIPE
- INTAKE OR UTILITY ACCESS REMOVAL
- SAWCUT

For Side Road Details
Refer to E Sheets

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

SEC. 28

EX. 12TH ST

EX. HOLMES ST

EX. BROWN ST

EX. KIMBERLY RD E

14TH ST

EX. 15TH ST

EX. MISSISSIPPI BLVD

MH #25984

P25984

MH #10181

IN #25335

REMOVE ENTRANCE
AT STA 18+75.7

MH #26488

P10182

P10174

P26444

P25335

IN #26443

TP400

P26443

MH #25656

P25656

P10380

74

0 FEET 50

MISSISSIPPI BLVD REMOVAL PLANS

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER U.1

8:45:35 AM v81CH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-U.sht

LEGEND

- PAVEMENT REMOVAL
- SIDEWALK OR DRIVEWAY REMOVAL
- REMOVAL OF EXISTING STORM SEWER PIPE
- PLUG AND ABANDON EXISTING STORM SEWER PIPE
- REMOVAL OF EXISTING SANITARY SEWER PIPE
- PLUG AND ABANDON EXISTING SANITARY SEWER PIPE
- INTAKE OR UTILITY ACCESS REMOVAL
- SAWCUT

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

EX. I-74 ENT. RAMP

74

Existing Sanitary Sewer is sleeved through existing Storm Sewer manhole 26264. Remove sleeve and fill and plug pipe to the west.

EX. 14TH ST

14TH ST

MH #26051
P26051
MH #26264
P26264
P10181
P28164
MH #28164
P25703
MH #25703
REMOVE ENTRANCE AT STA 25+40.8
P25167
MH #25167
MH #10185
P10185
P25847
P10186
MH #25847
P25880
P25529
MH #25529
P10184
P26452
IN #26452
P24781
IN #24781
IN #24536
P24536
P10407
MH #10176
P10377
MH #10377
P10176
MISSISSIPPI BLVD
REMOVE ENTRANCE AT STA 15+12.6
REMOVE ENTRANCE AT STA 14+54.94
REMOVE ENTRANCE AT STA 23+90.2
REMOVE ENTRANCE AT STA 24+37.8
REMOVE ENTRANCE AT STA 22+35.6
MH #10184
REMOVE ENTRANCE AT STA 25+39.8
REMOVE ENTRANCE AT STA 21+53.3
REMOVE ENTRANCE AT STA 26+05.1
REMOVE ENTRANCE AT STA 24+54.6
MH #10186

EX. 15TH ST

EX. BROWN ST

EX. MISSISSIPPI BLVD

For Side Road Details Refer to E Sheets

0 FEET 50

14TH ST REMOVAL PLANS

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER U.2

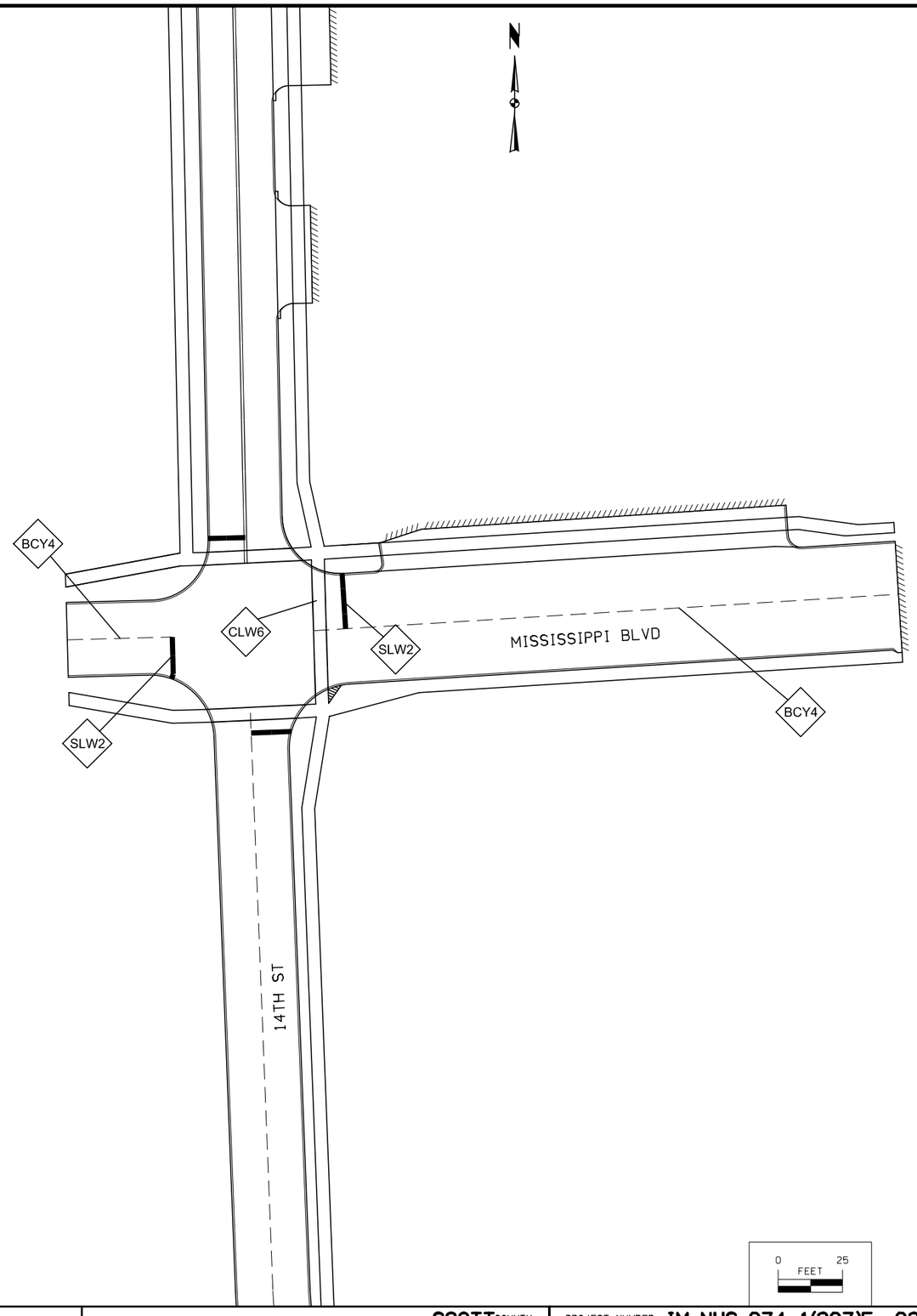
8:45:38 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-U.sht

BCY4 BROKEN CENTERLINE (YELLOW)*

CLW6 CROSSWALK LINE (WHITE)*

SLW2 STOP LINE (WHITE)*

*SEE PM-110 FOR PAVEMENT MARKING DETAILS

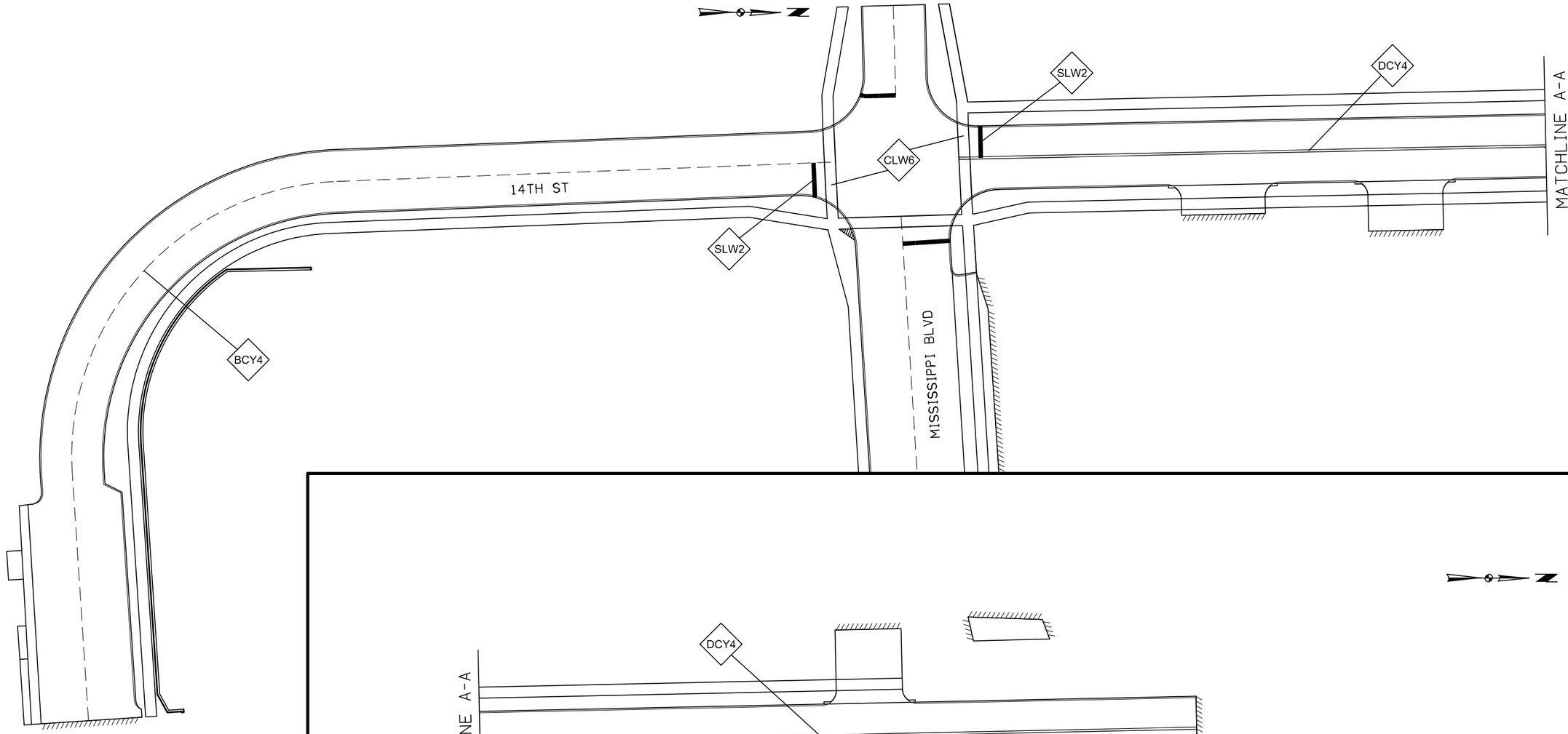


0 25 FEET

MISSISSIPPI BLVD
FINAL PAVEMENT MARKINGS

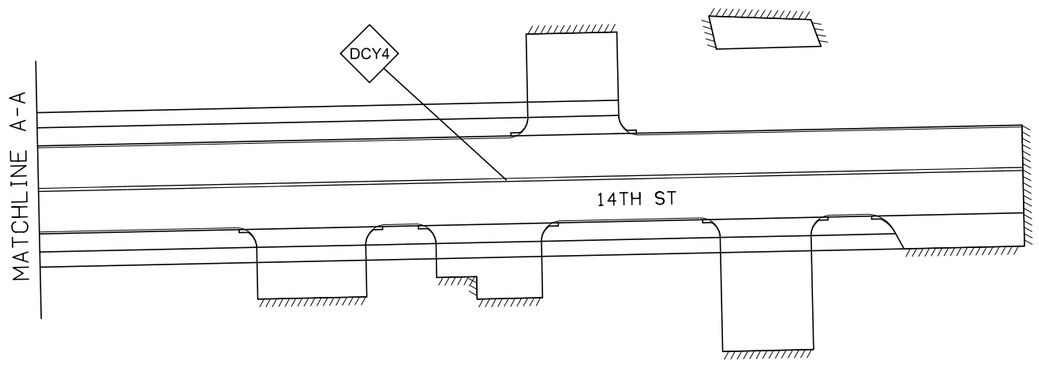
ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER U.3	

8:45:40 AM v8iCH pw:\\sp1-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-U.sht



*SEE PM-110 FOR PAVEMENT MARKING DETAILS

BCY4	BROKEN CENTERLINE (YELLOW)*
DCY4	DOUBLE CENTERLINE (YELLOW)*
CLW6	CROSSWALK LINE (WHITE)*
SLW2	STOP LINE (WHITE)*

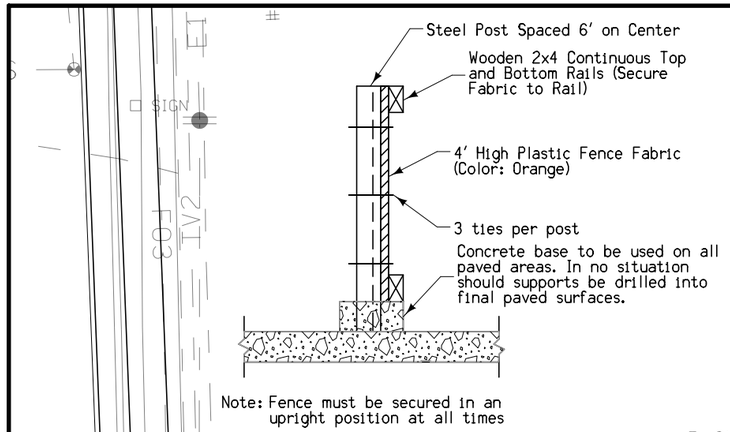


0 25 FEET

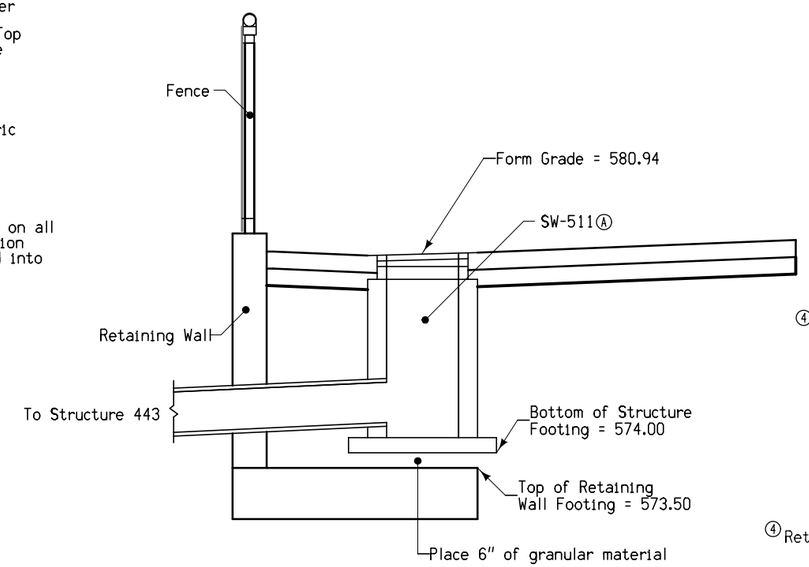
14TH ST FINAL PAVEMENT MARKINGS

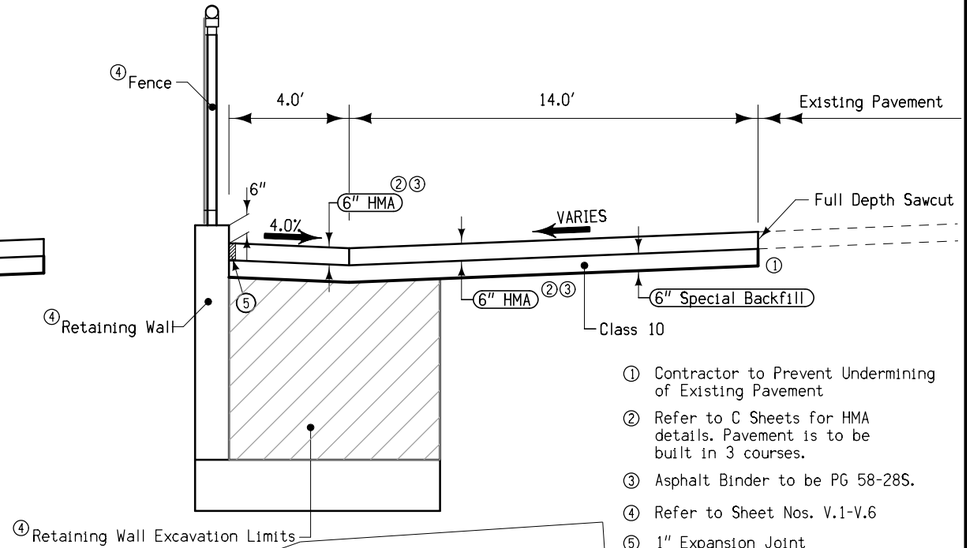
ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER U.4

8:45:40 AM v81CH pw:\\sp1-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-U.sht



Note: Fence must be secured in an upright position at all times





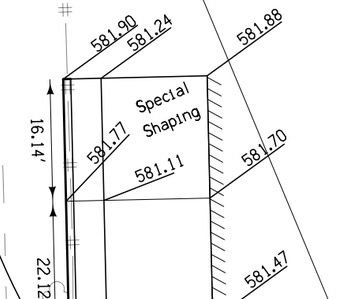
① Contractor to Prevent Undermining of Existing Pavement

② Refer to C Sheets for HMA details. Pavement is to be built in 3 courses.

③ Asphalt Binder to be PG 58-28S.

④ Refer to Sheet Nos. V.1-V.6

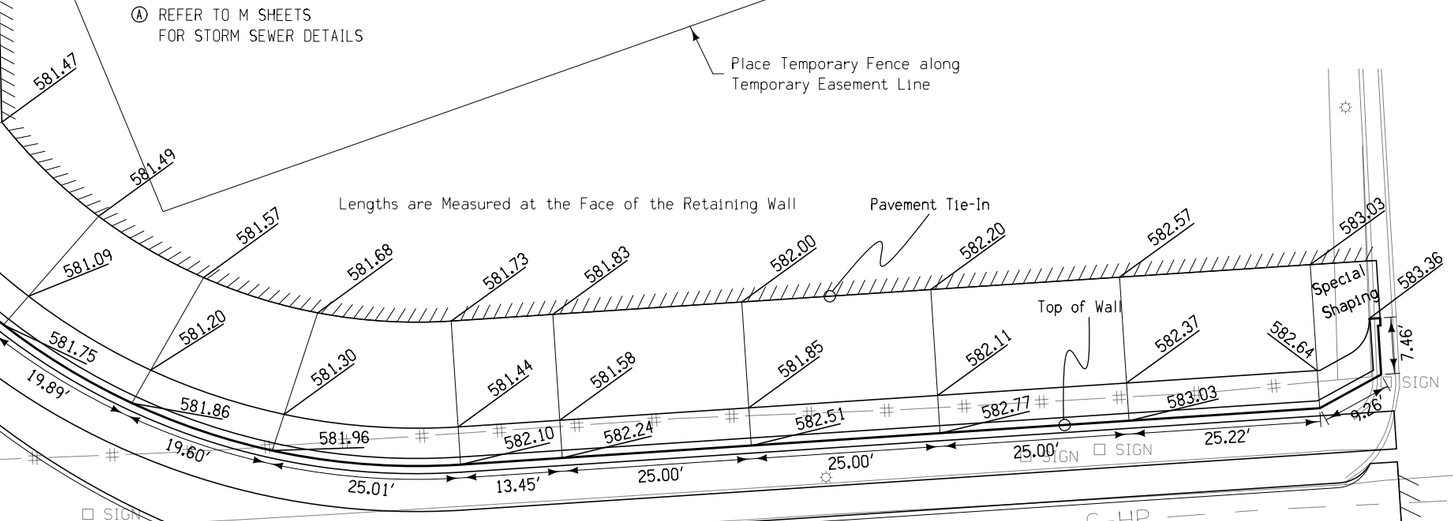
⑤ 1" Expansion Joint

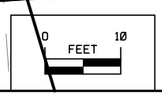


Ⓐ REFER TO M SHEETS FOR STORM SEWER DETAILS

Place Temporary Fence along Temporary Easement Line

Lengths are Measured at the Face of the Retaining Wall





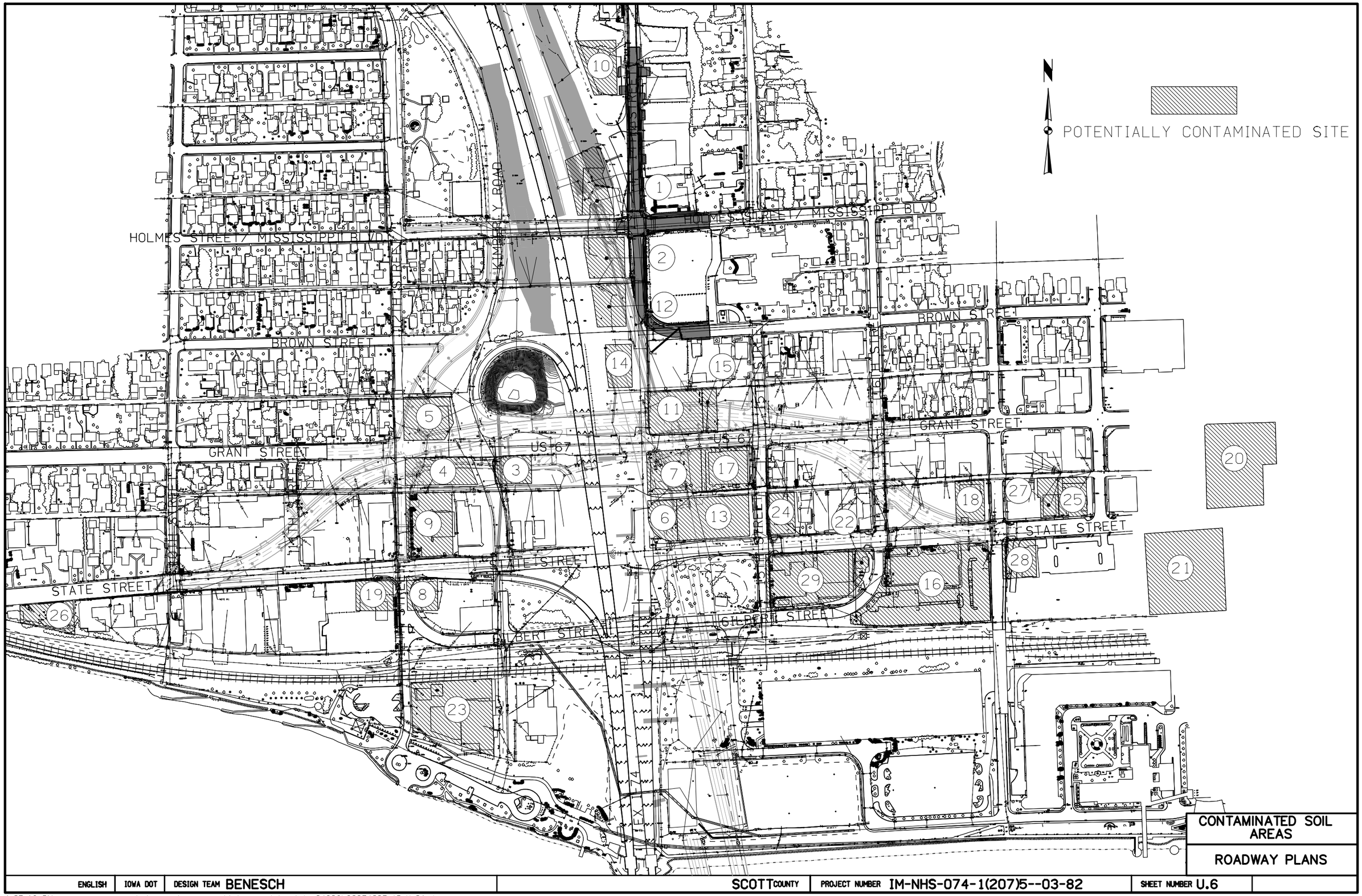
14TH STREET

EX. BROWN STREET

OUR LADY OF LOURDES PARKING LOT MODIFICATIONS

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER U.5

8:45:42 AM v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-U.sht



CONTAMINATED SOIL AREAS

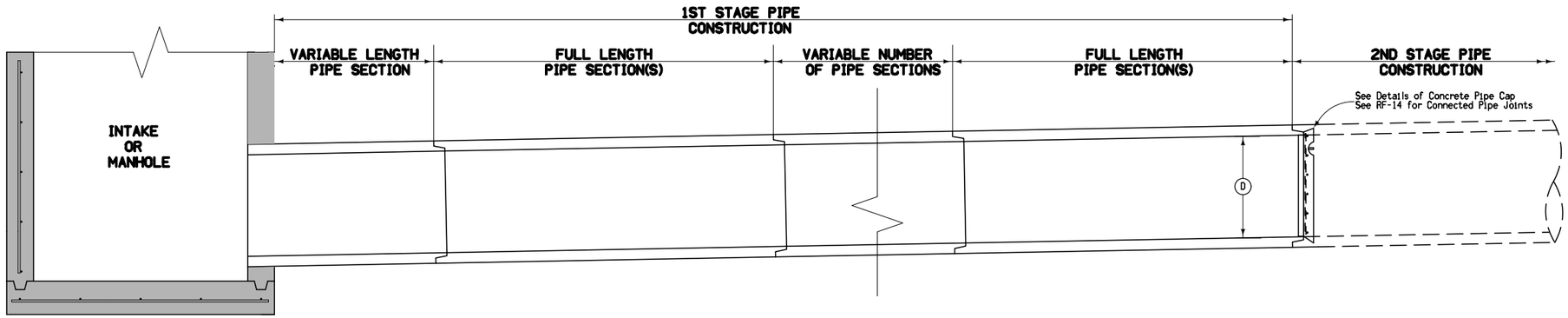
ROADWAY PLANS

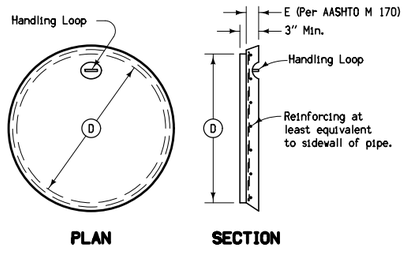
ENGLISH	IOWA DOT	DESIGN TEAM BENESCH	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER U.6	

1:25:16 PM untitled c:\pwise_work\do_not_delete\dms04806\82074207-AB-U-01.sht

Contaminated Soil Summary				PCSS-1 SPECIAL
Location	Parcel # See H Sheets	Description and Address	Site Impacted by this Contract	Remarks
			Yes/No	
1	380	H & H Car Care Center 612 14th Street	No	4 UST removed 1990. DNR - "No Action Req'd" Feb. 2005. Petroleum contamination in soil boring.
2	374	Dale Snapp Co. 536 14th Street	No	2 UST removed 1998. Petroleum contamination in recent soil boring.
3	345	Crescent Economy Inc. 1303 Grant Street	No	No tanks. Dry cleaning chemicals present. DNR statewide standards exceeded (Oct. 2005).
4	346	Showboat Car Wash 1215 Grant Street	No	3 UST removed 1992. DNR - "No Action Req'd" Aug. 2003.
5	353	Hoyt & Son Automotive 1210 Grant Street	No	5 UST removed 1996. Previous soil removal project DNR - "No Action Req'd" July 2003.
6	341	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 soil boring.
7	341A	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	312	Adel Parking Lot 1207 State Street	No	Former gas station. Now part of QCA Spa. Petroleum contamination in ground water from monitoring wells.
9	324	Village Inn 1210 State Street	No	Petroleum contamination in recent soil borings.
10	386	Great American Window Co 710 14th Street	Yes	Petroleum contamination in ground water from monitoring wells.
11	355	Dart Mart/Big 10 Mart 411 14th Street	Yes	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	Parcel # See HE Sheets	Description and Address	Site Impacted by this Contract	Remarks
			Yes/No	
12	372	Ross' Drive Through 512 14th Street	No	No action necessary. No contamination identified.
13	320	Knox Corporation 1416 State Street	No	No action necessary. No contamination identified.
14	367	Ross' Restaurant Inc 430 14th Street	No	Contamination documented in monitoring wells.
15	357	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	311	City Hall 1609 State Street	No	Total of 5 UST: 3 UST removed 1988 and one active. Petroleum contamination in recent soil boring.
17	339	US West 1437 Grant Street	No	1 UST removed 1993. No contamination identified.
18	331	Car Quest 312 17th Street	No	Contamination documented in monitoring wells.
19	NA	Adel Parking Lot 1159 State Street	No	Owner denied access to property. Potential UST.
20	NA	Lindquist Ford 1910 State Street	No	8 UST removed 1997. DNR "No Action Req'd" Nov. 1998.
21	NA	Plaza Building 1823 State Street	No	Petroleum contamination identified.
22	NA	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	NA	Twin Bridges Truck City 131 12th Street	No	2 UST removed 1990. DNR "No Action Req'd" Jan. 1996.
24	NA	Nextel Phone 1504 State Street	No	Former gas station. No documented information.
25	NA	Rapid Lube and Oil 1740 State Street	No	Former gas station. 6 UST removed 1981 to 1987.
26	NA	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	NA	Hans Body Shop 1720 State Street	No	Former gas station. No documented information.
28	NA	Bettendorf Auto 1705-1719 State Street	No	No contamination identified.
29	NA	Twin Bridges Motor Inn 221 15th Street	No	No contamination identified.





DETAILS OF CONCRETE PIPE CAP

CONCRETE PIPE CAP:

The use of an approved pipe cap is required when so indicated on the detail project plans. The dimensions of the pipe cap shall be such as to neatly fit the groove end of the appropriate size of pipe.

The cap must be precast and an approved bituminous joint material shall be placed between the cap and the pipe.

The Pipe Cap placement or removal shall not be paid for directly, but when specified, shall be considered to be incidental to other pipe work on the project.

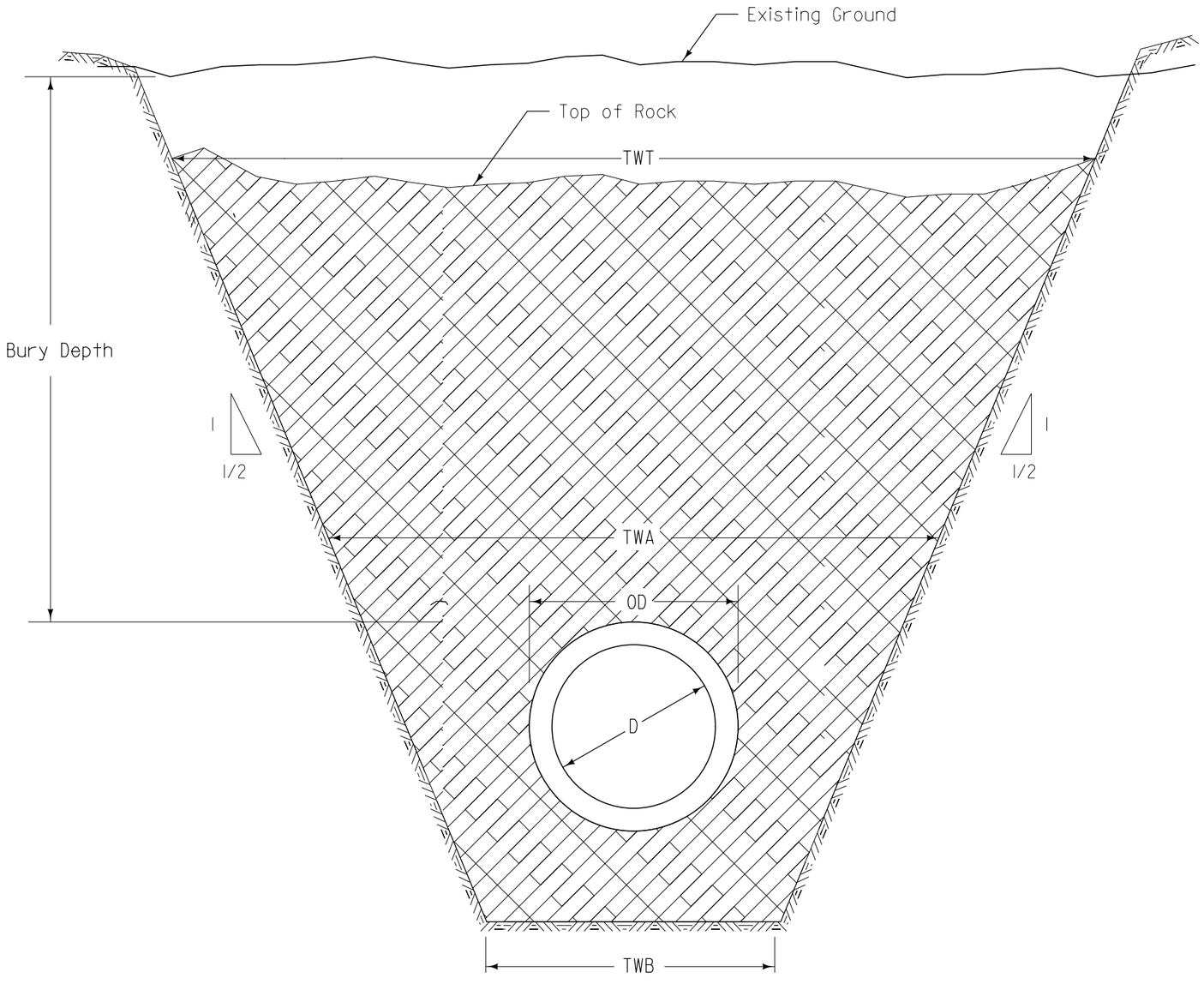
1st Stage: Install Concrete Pipe Cap where specified.

2nd Stage: Remove Concrete Pipe Cap prior to connecting to existing pipes.

DETAIL OF STAGED STORM SEWER
PIPE CONSTRUCTION
AND CONCRETE PIPE CAP

ENGLISH	IOWA DOT	DESIGN TEAM **BENESCH**	**SCOTT** COUNTY	PROJECT NUMBER **IM-NHS-074-1(207)5--03-82**	SHEET NUMBER **U.8**

1:25:36 PM untitled c:\pwise_work\do_not_delete\dms04806\82074207-AB-U-01.sht



Legend

Maximum allowable payment area for Rock Excavation

Key

OD = Outside diameter of pipe

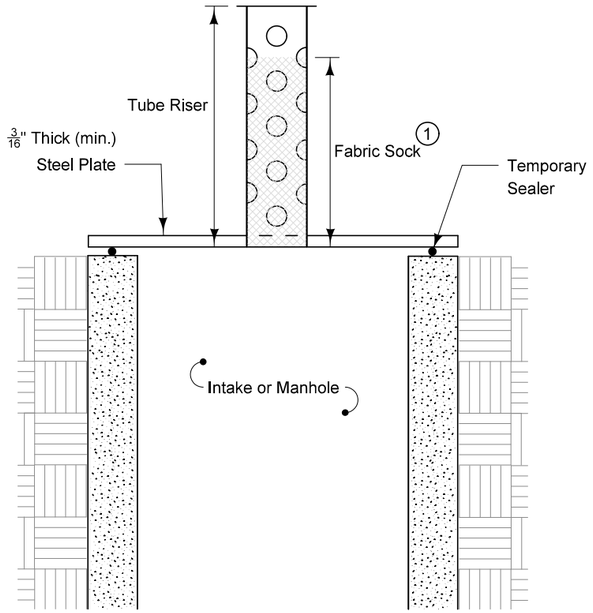
D = Inside diameter of pipe

TWT = Trench width at top of rock

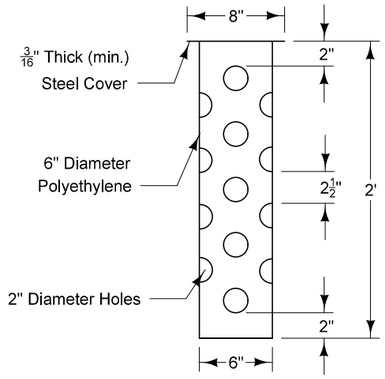
TWB = Trench width at bottom (Max=1.25xOD+12 inches or 54 inches (whichever is greater)

TWA = Average trench width

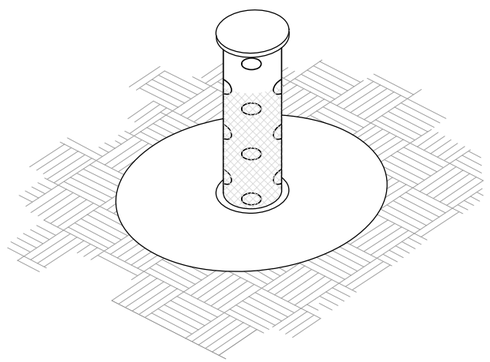
Rock Excavation Trench for Sewers



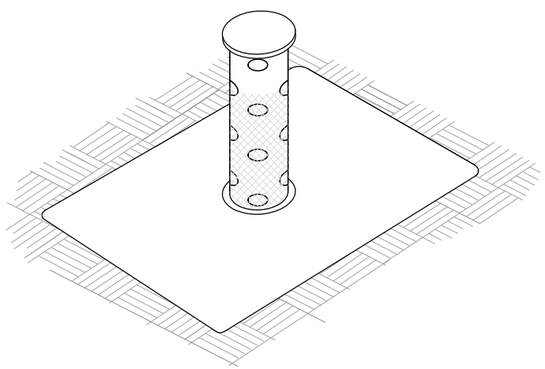
SECTION VIEW



TUBE RISER 2

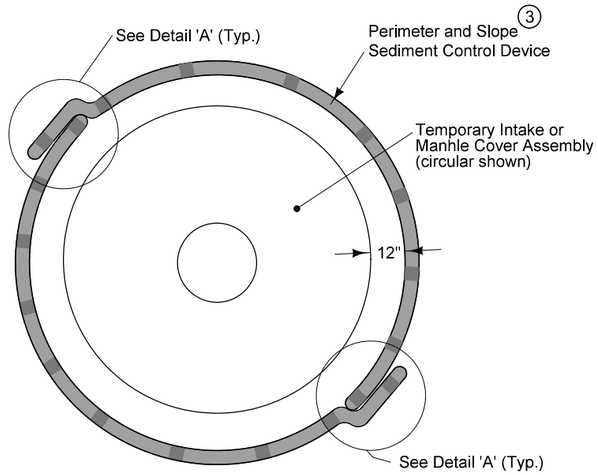


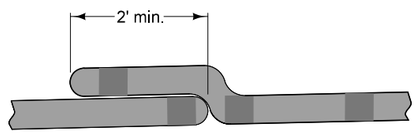
ISOMETRIC VIEW
(Circular)



ISOMETRIC VIEW
(Rectangular)

TEMPORARY INTAKE OR MANHOLE COVER ASSEMBLY





DETAIL 'A' 4
(Overlap Joint)

PERIMETER AND SLOPE SEDIMENT CONTROL

Method of Measurement for Temporary Intake or Manhole Cover Assembly will be by count.

Basis of Payment for Temporary Intake or Manhole Cover Assembly will be at the contract unit price for each device installed.

Method of Measurement for Maintenance of Temporary Intake or Manhole Cover Assembly will be by count.

Basis of Payment for Maintenance of Temporary Intake or Manhole Cover Assembly will be at the contract unit price for each occurance. Payment is full compensation for inspecting fabric sock and replacing when flow capicity has been reduced to 50%.

Method of Measurment for Removal of Temporary Intake or Manhole Cover Assembly will be by count.

Basis of Payment for Removal of Temporary Intake or Manhole Cover Assembly will be at the contract unit price for each device removed.

1. Wrap fabric sock around tube riser. Use fabric complying with Article 4196.01, B, 1 with a minimum flow rate of 90 gallons per minute per square foot. Ensure top of sock is below form grade elevation.
2. Tube riser may be such that it can be pushed down and pulled up.
3. Place Perimeter and Slope Sediment Control Devices around all intake or manhole wells. Use 20 inch diameter device.
4. Extra material required to install overlaps will not be included in the installation length.

Possible Contract Items:
- Temporary Intake or Manhole Cover Assembly
- Maintenance of Temporary Intake or Manhole Cover Assembly
- Removal of Temporary Intake or Manhole Cover Assembly
- Perimeter and Slope Sediment Control Device

Possible Tabulations:
- 100-11
- 100-19

REVISION	
1	04-18-17

ROAD DESIGN DETAIL

570-5

SHEET 1 of 1

REVISIONS: Add bid items for maintenance and removal. Added basis of payment and method of measurement.

EROSION CONTROL FOR INTAKE OR MANHOLE WELL

ENGLISH	IOWA DOT	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER U.10

SYSTEMTIME USERNAME DGNSPEC

GENERAL NOTES:

IT IS THE INTENT OF THESE PLANS TO CONSTRUCT A 261'-2 x VARIABLE HEIGHT REINFORCED CONCRETE RETAINING WALL WHICH TIES INTO AN EXISTING RETAINING WALL.

FAINT LINES ON PLANS INDICATE THE EXISTING STRUCTURE.

THE CITY AND UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE CONTRACTOR OF THE CONSTRUCTION STARTING DATE.

ALL EXPOSED CORNERS 90 DEGREES OR SHARPER SHALL BE FILLETED WITH A $\frac{3}{4}$" DRESSED AND BEVELED STRIP.

THE REINFORCEMENT SUPPLIED FOR THIS STRUCTURE SHALL BE GRADE 60.
REINFORCING BAR CLEARANCES WILL BE AS FOLLOWS:
CAST AGAINST EARTH 3"
CONCRETE AGAINST FORMS 2"

CLASS 20 EXCAVATION MATERIAL UNSUITABLE FOR BACKFILLING SHALL BE DISPOSED OF IN A MANNER THAT WILL LEAVE THE SITE IN A NEAT CONDITION.

KEYWAY DIMENSIONS SHOWN ON THE PLANS ARE BASED ON NOMINAL DIMENSIONS UNLESS STATED OTHERWISE. IN ADDITION, THE BEVEL USED ON THE KEYWAY SHALL BE LIMITED TO A MAXIMUM OF 10 DEGREES FROM VERTICAL.

SEE TRAFFIC CONTROL PLAN ELSEWHERE IN THESE PLANS.

STRUCTURAL CONCRETE FOR THE FOOTING AND WALL SHALL BE CLASS "C".

ALL COSTS ASSOCIATED WITH EXPANSION AND CONSTRUCTION JOINTS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "STRUCTURAL CONCRETE (MISCELLANEOUS)."

BACKFILLING OPERATIONS SHALL BE IN ACCORDANCE WITH ARTICLE 2402.03, H OF THE STANDARD SPECIFICATIONS. ARTICLE 2403.03, N, OF THE STANDARD SPECIFICATIONS, SHALL BE FOLLOWED WITH RESPECT TO SUBJECTING WALLS AND FOOTINGS TO EXTERIOR LOADS.

ALL REINFORCING BARS AND BARS NOTED AS DOWELS SUPPLIED FOR THIS STRUCTURE SHALL BE DEFORMED REINFORCEMENT UNLESS OTHERWISE NOTED OR SHOWN.

THESE BRIDGE PLANS LABEL ALL REINFORCING STEEL WITH ENGLISH NOTATION (5a1 IS $\frac{5}{8}$ INCH DIAMETER BAR). ENGLISH REINFORCING STEEL RECEIVED IN THE FIELD MAY DISPLAY THE FOLLOWING "BAR DESIGNATION". THE "BAR DESIGNATION" IS THE STAMPED IMPRESSION ON THE REINFORCING BARS, AND IS EQUIVALENT TO THE BAR DIAMETER IN MILLIMETERS.

ENGLISH SIZE	3	4	5	6	7	8	9	10	11
BAR DESIGNATION	10	13	16	19	22	25	29	32	36

SPECIFICATIONS:

DESIGN: AASHTO SERIES OF 2002.
CONSTRUCTION: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2012 PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

DESIGN STRESSES:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 2002. REINFORCING STEEL IN ACCORDANCE WITH SECTION 8, GRADE 60.
CONCRETE IN ACCORDANCE WITH SECTION 8, f'c = 3,500 PSI.

WALLS AND FOOTINGS WERE DESIGNED BASED ON THE FOLLOWING REQUIREMENTS:

MAXIMUM ALLOWABLE BEARING PRESSURE = 3,000 PSF
SOIL UNIT WEIGHT = 120 PCF
SOIL EQUIVALENT ACTIVE EARTH FLUID PRESSURE W/O WATER = 36 PCF
COEFFICIENT OF SLIDING FRICTION (FOOTING) = 0.4

HANSON

BENCH MARK NO. 503: US 67 RAMP D STA. 4501+81.78, RT. 117.13', ELEV. 580.28', CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" FHYD.

ESTIMATED STRUCTURE QUANTITIES

ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	AS BUILT QUANTITY
1	2401-6750001	REMOVAL, AS PER PLAN	LS	1	
2	2402-2720000	EXCAVATION, CLASS 20	CY	874	
3	2403-0100000	STRUCTURAL CONCRETE (MISCELLANEOUS)	CY	195.7	
4	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	12870	
5	2519-1001000	FENCE, CHAIN LINK, VINYL COATED	LF	261	

ITEM NO.	ESTIMATE REFERENCE INFORMATION
1	INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF PART OF THE EXISTING MODULAR BLOCK RETAINING WALL TO THE LIMITS SHOWN ON THE PLANS. REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF THE STANDARD SPECIFICATIONS. ANY DAMAGE TO MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND REPAIRED AT NO EXTRA COST TO THE STATE. IT ALSO INCLUDES ANY TEMPORARY REMOVAL, STOCKPILING, AND REASSEMBLING OF OTHER PORTIONS OF THE EXISTING WALL THAT MAY INTERFERE WITH CONSTRUCTION OF THE PROPOSED REINFORCED CONCRETE WALL.
3	INCLUDES PERFORATED PIPE, POROUS BACKFILL, FILTER FABRIC, GRANULAR BACKFILL, PREFORMED JOINT FILLER AND WATER SEAL. INCLUDES ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING EXPANSION AND CONSTRUCTION JOINTS. INCLUDES DOWEL BAR ASSEMBLIES FOR FOOTINGS, AND PREFORMED JOINT FILLER. INCLUDES ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING NEOPRENE WATERSTOPS. INCLUDES ALL COSTS ASSOCIATED WITH FORM LINER PANELS FOR WALLS.
5	INCLUDES BASE PLATES AND ANCHOR BOLTS.

CAST IN PLACE CONCRETE WALL PANEL FINISH NOTES:

1. SUBMIT SHOP DRAWINGS INDICATING FORM LINER LAYOUT AND TERMINATION DETAILS FOR ALL PANELS. INDICATE BACKUP, RUSTICATION, REVEAL, AND CHAMFER STRIP LOCATIONS. INCLUDE JOINTING, PATTERN PLACEMENT AND ORIENTATION. CONTRACTOR RESPONSIBLE FOR DESIGN OF FORMWORK AND BACK-UP OF FORM LINER FOR STRUCTURAL STABILITY AND SUFFICIENCY.

2. SUBMIT 12 INCH BY 12 INCH SAMPLE OF PATTERN INDICATED. SAMPLE MAY BE EITHER ACTUAL FORM LINER MATERIALS OR FOAM CASTINGS FROM LINER PROPOSED FOR USE ON THE PROJECT.

3. PROVIDE 4'x4'x6 INCH (MIN.) FULL SCALE SAMPLE PANEL USING ACTUAL JOB SPECIFIC MATERIALS, METHODS AND WORKMANSHIP. THESE INCLUDE CONCRETE MIX [CEMENT TYPE, AGGREGATE GRADATION, SLUMP, WATER/CEMENT RATIOS, PLASTICIZERS AND ADDITIVES], FORMING SYSTEM [LINER AND FORMWORK], FORM RELEASE AGENTS, PLACEMENT RATE, FORM PRESSURES, FORMWORK AND JOINT SEALING, VIBRATING AND STRIPPING PRACTICES. THE TOP 1 FOOT OF THE SAMPLE SHALL DEPICT THE 4-INCH PROJECTED UPPER WALL SURFACE. THE SAMPLE PANEL SHALL BE CAST VERTICALLY. IN ADDITION, DEMONSTRATE PATCHING AND REPAIR PROCEDURES FOR SPALLED CONCRETE, AND VOIDS CAUSED BY HONEYCOMBING OR BUGHOLES. ACCEPTED SAMPLE PANELS WILL BE STANDARD BY WHICH REMAINING WORK WILL BE EVALUATED FOR TECHNICAL AND AESTHETIC MERIT. CONTRACTOR SHALL STORE ACCEPTED SAMPLE PANELS ON SITE FOR REFERENCE UNTIL SUBSTANTIAL COMPLETION. ACCEPTED SAMPLE PANELS ARE A PREREQUISITE TO BEGINNING JOB FORMWORK. SUBMIT VARIATIONS FROM SAMPLE PANEL MATERIALS OR TECHNIQUES FOR APPROVAL PRIOR TO USE.

4. COVER FORM LINERS TO PROTECT FROM OIL, DIRT AND UV EXPOSURE.

5. HANDLE RIGID FORM LINER PANELS WITH CARE AT TEMPERATURES BELOW 25°F.

6. APPROVED MANUFACTURERS OF FORM LINERS MATERIALS AND ACCESSORIES

BASIS OF DESIGN:

TYPE 2-
SCOTT SYSTEM PATTERN 120 -
SANDBLAST #2

SCOTT SYSTEM, INC.
10777 EAST 45TH AVENUE
DENVER, CO 80239
333-373-2500
WWW.SCOTTSYSTEM.COM

ALLOWABLE ALTERNATES:

TYPE 2 -
FITZGERALD FORMLINERS PATTERN 16991 -
MEDIUM SANDBLAST

FITZGERALD FORMLINERS, INC.
1500 EAST CHESTNUT AVENUE
SANTA ANA, CA 92701
800-547-7760
WWW.FORMLINERS.COM

TYPE 2 -
AMERICAN FORMLINERS PATTERN 1200 -
LIGHT/MEDIUM SANDBLAST

AMERICAN FORMLINERS, INC.
1567 FRONTENAC ROAD
NAPERVILLE, IL 60563
630-615-2170
WWW.AMERICANFORMLINERS.COM

7. ON MULTIPLE USE LINERS, CLEAN LINER BEFORE EACH USE. REPLACE DAMAGED LINER WHOSE CONTINUED USE OR REPAIR WOULD NEGATIVELY IMPACT THE AESTHETICS OF THE CONCRETE FINISH.

8. APPLY FORM LINER COMPATIBLE RELEASE AGENT AT RATE RECOMMENDED BY MANUFACTURER. ATTEMPT TO SCHEDULE CONCRETE POUR SOON AFTER APPLICATION OF RELEASE AGENT TO AVOID PRECIPITATION, DUST, AND DEBRIS. PROTECT REINFORCING STEEL FROM EXPOSURE TO RELEASE AGENTS.

9. SEAL FORM LINER JOINTS TO PREVENT MORTAR LEAKAGE.

10. PROVIDE SOLID BACKING AT FORM LINER BUTT JOINTS TO PREVENT DEFLECTION.

11. CONSTRUCT FORM LINER AND ACCESSORIES TO SIZES, SHAPES, LINES AND DIMENSIONS SHOWN.

12. INSTALL BACKUP STRIPS AS REQUIRED TO PREVENT DEFLECTION OF THE LINER DUE TO FORM PRESSURES.

STRUCTURAL DESIGN

LICENSED PROFESSIONAL ENGINEER — Robert Chantome 19011 — 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 11/14/2019 Date

Robert Chantome
Printed or Typed Name

My license renewal date is December 31, 2019

Pages or sheets covered by this seal: V.1 - V.6

DESIGN FOR A

261'-2 x VARI. HEIGHT REINFORCED CONCRETE RETAINING WALL GENERAL NOTES AND QUANTITIES

BEGIN STATION 14+41.38 - 43.37 RT. (I4 TH ST.)
END STATION 17+32.59 - 37.61 RT. (I4 TH ST.)

OCTOBER, 2014

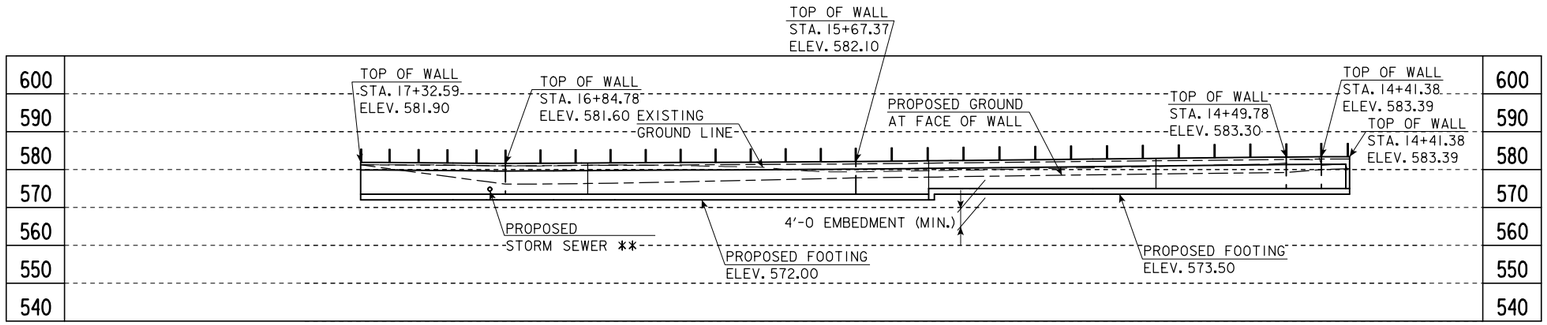
SCOTT COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 1 OF 6 FILE NO. 30253 DESIGN NO. 1120

DESIGN TEAM HANSON PROFESSIONAL SERVICES | SCOTT COUNTY | PROJECT NUMBER IM-NHS-074-1(207)5--03-82 | SHEET NUMBER V.1

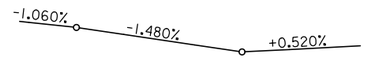
BENCH MARK NO. 503: US 67 RAMP D STA. 4501+81.78, RT. 117.13',
ELEV. 580.28', CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" FHYD.



** SEE M SHEETS FOR PROPOSED STORM SEWER DETAILS.

ELEVATION ALONG FRONT FACE OF RETAINING WALL 175

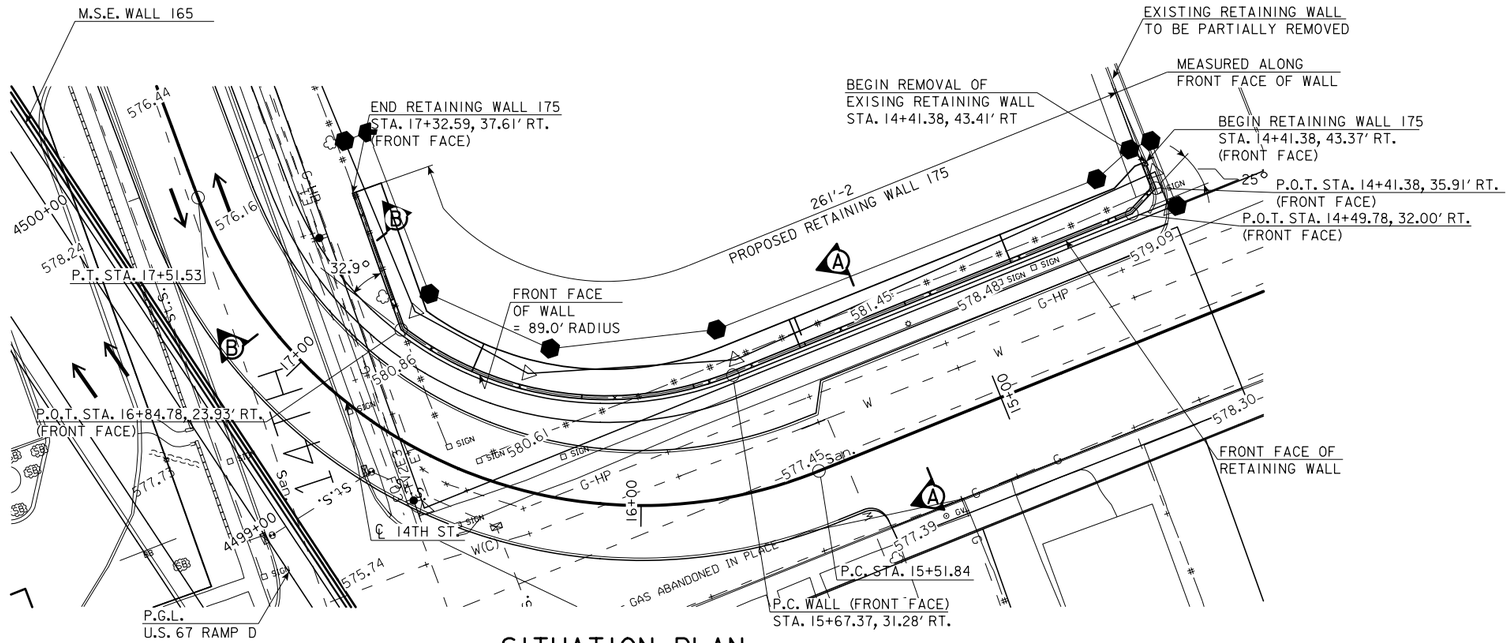
PROPOSED PROFILE GRADE 14TH STEET



VPI STA = 15+00.00
VPI ELEV = 578.32
VC = 100'

VPI STA = 16+75.00
VPI ELEV = 575.73
VC = 100'

NOTES:
ALL DIMENSIONS ARE SHOWN IN FEET UNLESS NOTED OTHERWISE.
PROPOSED RETAINING WALL TO TIE INTO EXISTING RETAINING WALL AT NORTHEAST END.



SITUATION PLAN

14TH STREET CURVE DATA

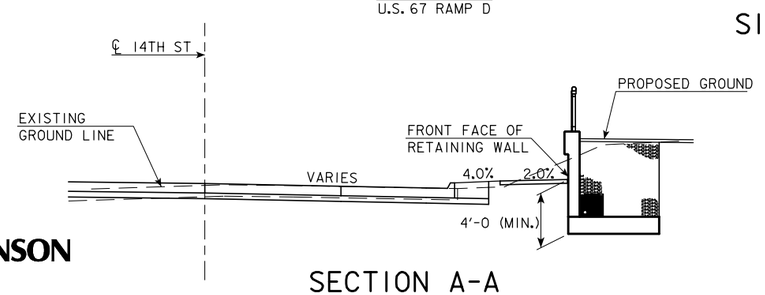
PI STA 16+80.23
Δ = 91°31'47.63" (RT)
D = 45°50'11.84"
R = 125.00'
T = 128.38'
L = 199.69'
E = 54.18'
e = 4.00
l = 65.00
x = 32.00
m = 19.50

LOCATION

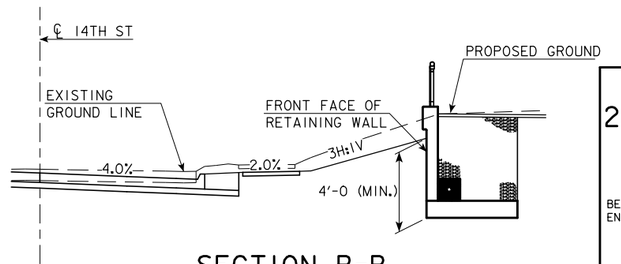
14TH STREET
T 78 N R 4 E
SECTION 28
DAVENPORT TOWNSHIP
CITY OF BETTENDORF
SCOTT COUNTY
LATITUDE: 41.527332
LONGITUDE: -90.512189

TRAFFIC ESTIMATE

14TH ST.
A.A.D.T. = 8800 VPD (2002)
A.A.D.T. = 9000 VPD (2035)



SECTION A-A



SECTION B-B

HANSON

DESIGN FOR A

261'-2 x VARI. HEIGHT REINFORCED CONCRETE RETAINING WALL SITUATION PLAN

BEGIN STATION 14+41.38 - 43.37 RT. (14 TH ST.)
END STATION 17+32.59 - 37.61 RT. (14 TH ST.)

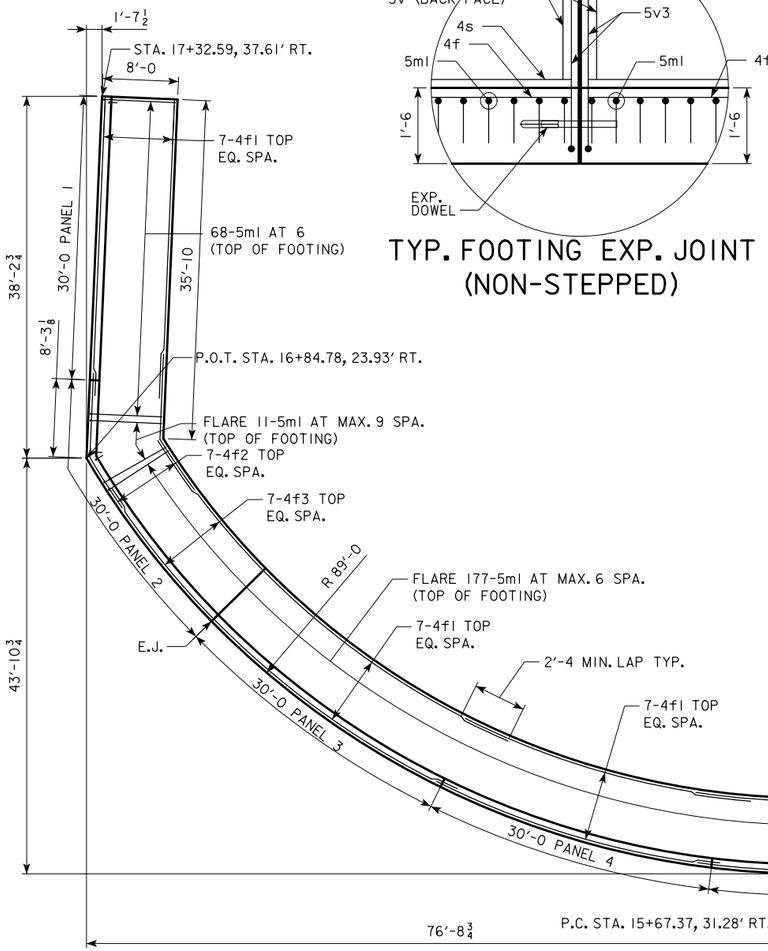
OCTOBER, 2014

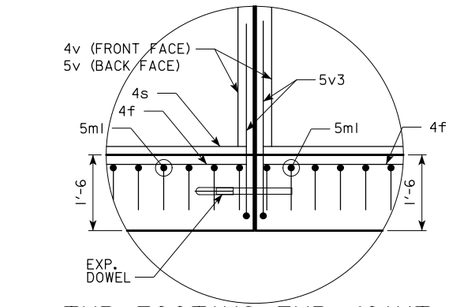
SCOTT COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

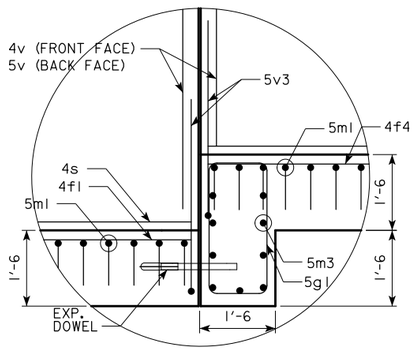
DESIGN SHEET NO. 2 OF 6 FILE NO. 30253 DESIGN NO. 1120

DESIGN TEAM HANSON PROFESSIONAL SERVICES | SCOTT COUNTY | PROJECT NUMBER IM-NHS-074-1(207)5--03-82 | SHEET NUMBER V.2

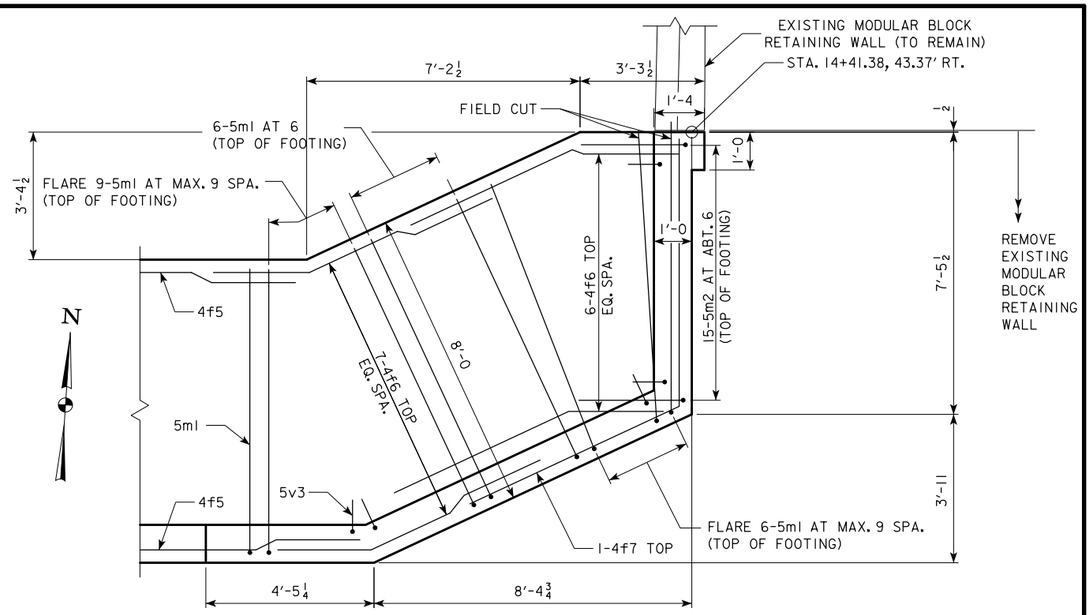




TYP. FOOTING EXP. JOINT
(NON-STEPPED)



FOOTING STEP DETAIL

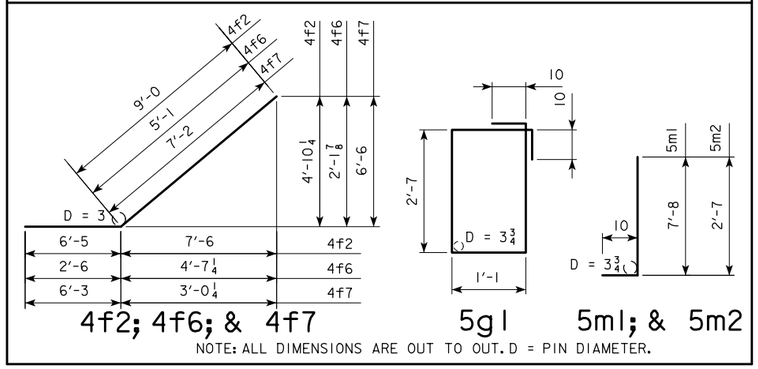


FOOTING DETAIL

FOOTING PLAN

WALL OFFSETS ARE MEASURED FROM ℄ 14TH ST.
TO THE FRONT FACE OF THE WALL

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER.

REINFORCING BAR LIST - WALL FOOTING

EPOXY COATED REINFORCING

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
4f1	LONG. FOOTING	—	28	31'-6	589
4f2	LONG. FOOTING	⌒	7	15'-5	72
4f3	LONG. FOOTING	—	7	17'-5	81
4f4	LONG. FOOTING	—	14	31'-0	290
4f5	LONG. FOOTING	—	7	34'-2	160
4f6	LONG. FOOTING	⌒	13	7'-7	66
4f7	LONG. FOOTING	⌒	1	13'-5	9
5g1	TRANS. FOOTING STEP	⌐	7	9'-0	66
5m1	TRANS. FOOTING TOP	⌐	499	8'-6	4424
5m2	TRANS. FOOTING TOP	⌐	15	3'-5	53
5m3	TRANS. FOOTING STEP	—	9	7'-8	72
	EPOXY COATED REINFORCING STEEL - TOTAL (LBS.)				5890

NOTE: SAW CUT OR NEATLY SPLIT EXISTING WALL BLOCKS ALONG REMOVAL LINE. ATTACH 2' WIDE STRIP OF GEOTEXTILE FABRIC TO BACK OF WALL CENTERED ACROSS JOINT.

DESIGN FOR A

261'-2 x VARI. HEIGHT REINFORCED CONCRETE RETAINING WALL FOOTING PLAN

BEGIN STATION 14+41.38 - 43.37 RT. (14 TH ST.)
END STATION 17+32.59 - 37.61 RT. (14 TH ST.)

OCTOBER, 2014

SCOTT COUNTY

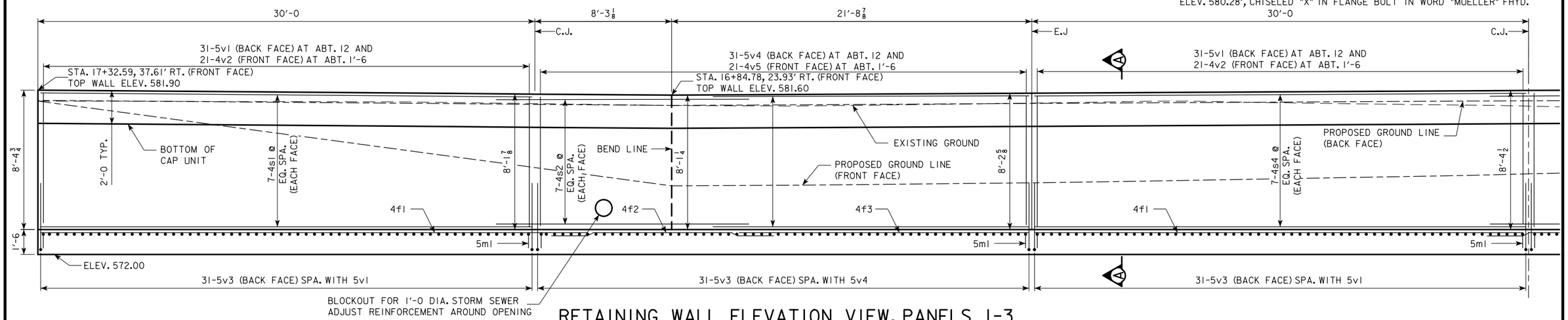
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 3 OF 6 FILE NO. 30253 DESIGN NO. 1120

HANSON

DESIGN TEAM HANSON PROFESSIONAL SERVICES | SCOTT COUNTY | PROJECT NUMBER IM-NHS-074-1(207)5--03-82 | SHEET NUMBER V.3

BENCH MARK NO. 503: US 67 RAMP D STA. 4501+81.78, RT. 117.13',
ELEV. 580.28', CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" FHYD.

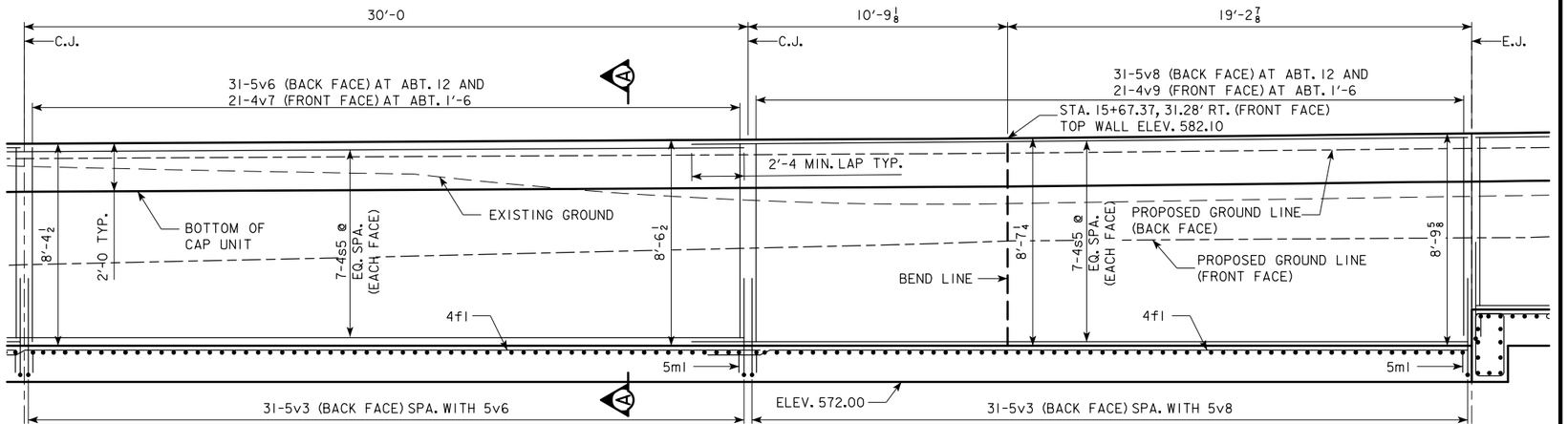


RETAINING WALL ELEVATION VIEW, PANELS 1-3

REINFORCING BAR LIST - WALL STEM

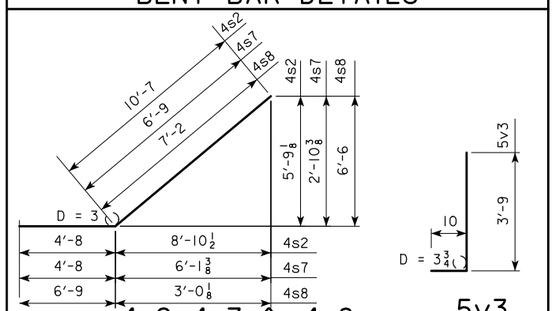
EPOXY COATED REINFORCING

BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
4s1	WALL HORIZONTAL	——	40	29'-8	793
4s2	WALL HORIZONTAL	⌣	14	15'-3	143
4s3	WALL HORIZONTAL	——	14	19'-0	178
4s4	WALL HORIZONTAL	——	14	29'-4	274
4s5	WALL HORIZONTAL	——	28	32'-6	608
4s6	WALL HORIZONTAL	——	12	32'-2	258
4s7	WALL HORIZONTAL	⌣	14	11'-5	107
4s8	WALL HORIZONTAL	⌣	14	13'-11	130
5v1	WALL VERTICAL, BACK FACE	——	62	7'-10	507
4v2	WALL VERTICAL, FRONT FACE	——	42	7'-10	220
5v3	WALL VERTICAL, BACK FACE	⌐¬	270	4'-7	1361
5v4	WALL VERTICAL, BACK FACE	——	31	7'-9	251
4v5	WALL VERTICAL, FRONT FACE	——	21	7'-9	109
5v6	WALL VERTICAL, BACK FACE	——	31	8'-0	259
4v7	WALL VERTICAL, FRONT FACE	——	21	8'-0	112
5v8	WALL VERTICAL, BACK FACE	——	31	8'-2	264
4v9	WALL VERTICAL, FRONT FACE	——	21	8'-2	115
5v10	WALL VERTICAL, BACK FACE	——	31	6'-11	224
4v11	WALL VERTICAL, FRONT FACE	——	21	6'-11	97
5v12	WALL VERTICAL, BACK FACE	——	31	7'-3	234
4v13	WALL VERTICAL, FRONT FACE	——	21	7'-3	102
5v14	WALL VERTICAL, BACK FACE	——	31	7'-7	245
4v15	WALL VERTICAL, FRONT FACE	——	21	7'-7	106
5v16	WALL VERTICAL, BACK FACE	——	22	7'-11	182
4v17	WALL VERTICAL, FRONT FACE	——	15	7'-11	79
	EPOXY COATED REINFORCING STEEL - TOTAL (LBS.)				6980



RETAINING WALL ELEVATION VIEW, PANELS 4-5

BENT BAR DETAILS



NOTE: ALL DIMENSIONS ARE OUT TO OUT. D = PIN DIAMETER

NOTE:
C.J. = CONSTRUCTION JOINT
E.J. = EXPANSION JOINT

NOTE: FRONT FACE OF WALL BELOW 4-INCH PROJECTION INCLUDES CONCRETE FORM LINER TEXTURE. SEE NOTES ON DESIGN SHEET 1.

DESIGN FOR A

261'-2 x VARI. HEIGHT REINFORCED CONCRETE RETAINING WALL ELEVATIONS

BEGIN STATION 14+41.38 - 43.37 RT. (14 TH ST.)
END STATION 17+32.59 - 37.61 RT. (14 TH ST.)

OCTOBER, 2014

SCOTT COUNTY

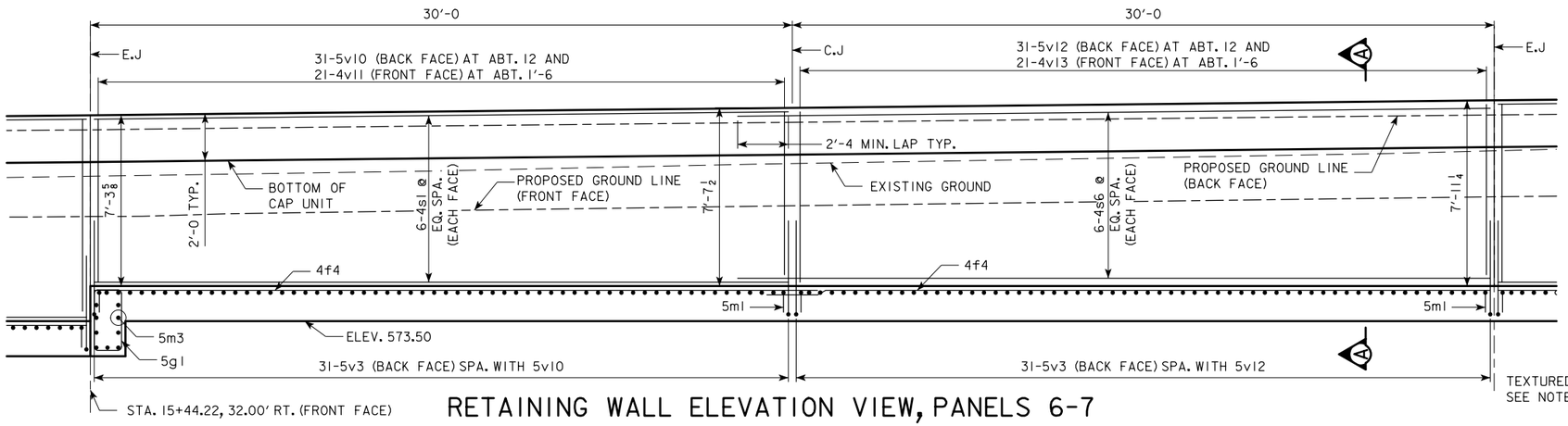
IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 4 OF 6 FILE NO. 30253 DESIGN NO. 1120

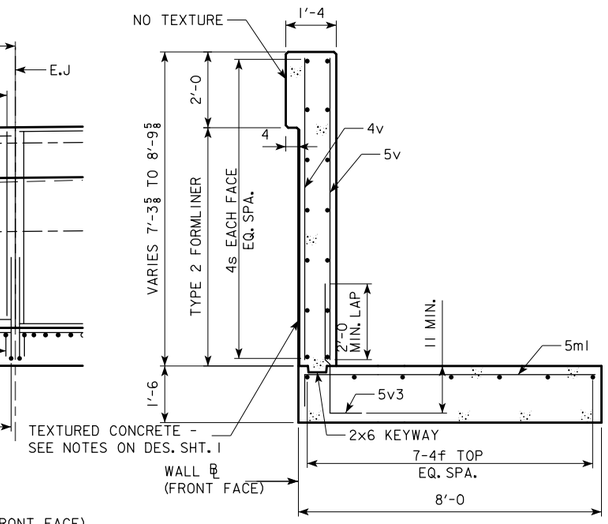
HANSON

DESIGN TEAM HANSON PROFESSIONAL SERVICES	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER V.4

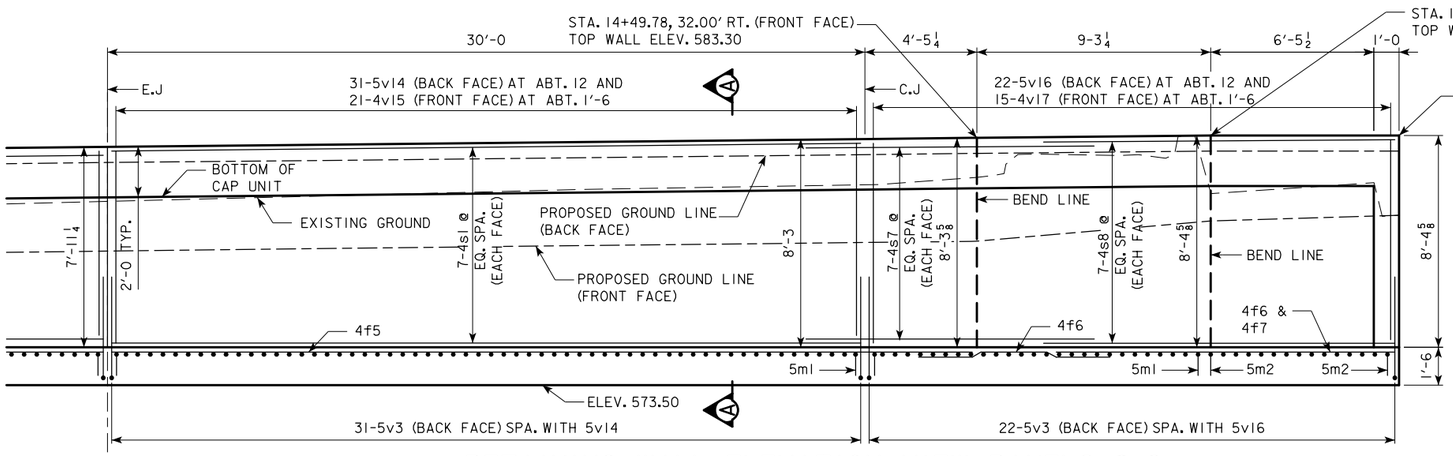
BENCH MARK NO. 503: US 67 RAMP D STA. 4501+81.78, RT. 117.13', ELEV. 580.28', CHISELED "X" IN FLANGE BOLT IN WORD "MUELLER" FHYD.



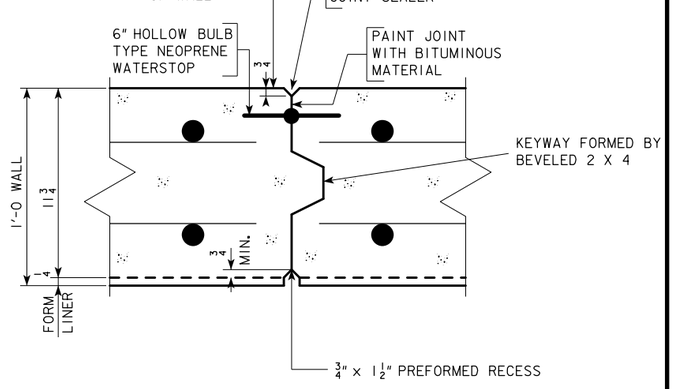
RETAINING WALL ELEVATION VIEW, PANELS 6-7



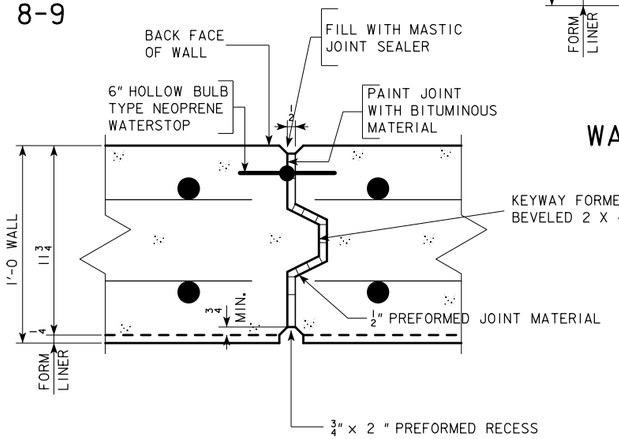
SECTION A-A



RETAINING WALL ELEVATION VIEW, PANELS 8-9



WALL CONSTRUCTION JOINT



WALL EXPANSION JOINT

NOTES :

WATERSTOP TO BE CENTER BULB TYPE AS MANUFACTURED BY AFCO, BURKE, WILLIAMS PRODUCTS OR APPROVED EQUAL.

WATERSTOPS ARE TO EXTEND FROM TOP OF FOOTINGS TO 6" BELOW TOP OF WALLS.

WALL EXPANSION JOINTS AND WALL CONSTRUCTION JOINTS EXTEND FROM TOP OF FOOTING TO TOP OF WALL.

WALL EXPANSION JOINTS ARE LOCATED DIRECTLY OVER FOOTING EXPANSION JOINTS.

NOTE: FRONT FACE OF WALL BELOW 4-INCH PROJECTION INCLUDES CONCRETE FORM LINER TEXTURE. SEE NOTES ON DESIGN SHEET 1.

NOTE:
C.J. = CONSTRUCTION JOINT
E.J. = EXPANSION JOINT

HANSON

DESIGN FOR A

261'-2 x VARI. HEIGHT REINFORCED CONCRETE RETAINING WALL ELEVATIONS

BEGIN STATION 14+41.38 - 43.37 RT. (14 TH ST.)
END STATION 17+32.59 - 37.61 RT. (14 TH ST.)

OCTOBER, 2014

SCOTT COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 5 OF 6 FILE NO. 30253 DESIGN NO. 1120

DESIGN TEAM HANSON PROFESSIONAL SERVICES | SCOTT COUNTY | PROJECT NUMBER IM-NHS-074-1(207)5--03-82 | SHEET NUMBER V.5

10:27:59 AM c:\pwise_work\do_not_delete\dms01047\82074206.brg.str 823908S005

FENCE NOTES :

CONSTRUCTION OF CHAIN LINK FENCE ON CONCRETE RETAINING WALL SHALL BE IN CONFORMANCE WITH CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS. DETAILS SHOWN ON THE SHEET ARE TYPICAL. ALTERNATE DETAILS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

ANCHOR BOLTS ($\frac{5}{8}$ DIAMETER) SHALL HAVE A MINIMUM PULL OUT STRENGTH OF 9000 POUNDS BASED ON 3500 PSI CONCRETE, SHALL MEET THE REQUIREMENTS OF I.D.O.T. MATERIALS I.M. 453.09, AND SHALL BE GALVANIZED AND INSTALLED ACCORDING TO RECOMMENDATIONS OF THE MANUFACTURER.

BASE PLATES SHALL BE GALVANIZED AFTER WELDING AND PRIOR TO INSTALLATION.

POST SIZE AND SPACING SHALL BE AS SHOWN ON MI-102.

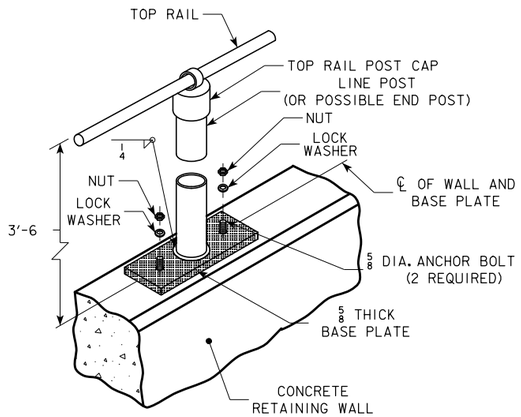
BOTTOM TENSION WIRE, PLACEMENT OF STRETCHER BAR CLAMPS, FASTENING OF CHAIN LINK FABRIC TO POSTS, TOP RAIL SLEEVE, ETC., SHALL BE AS INDICATED ON MI-102.

GROUNDING REQUIREMENTS SHALL BE AS DETERMINED BY SECTION 2519 OF THE STANDARD SPECIFICATIONS.

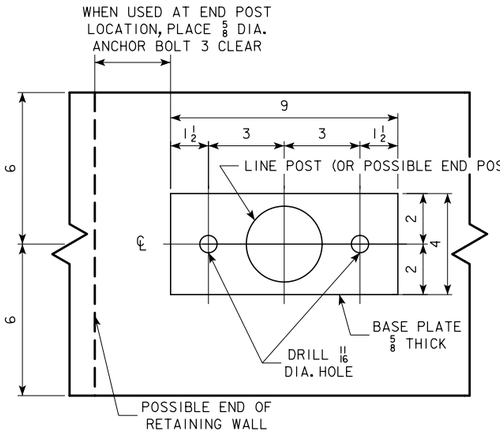
CHAIN LINK FABRIC SHALL BE KNUCKLED SELVAGE AT TOP AND BOTTOM OF FENCE.

PRICE BID FOR "FENCE, CHAIN LINK, VINYL COATED" SHALL BE CONSIDERED FULL COMPENSATION FOR FABRICATION AND CONSTRUCTION OF FENCING AS DETAILED HEREON, AS REQUIRED BY PROJECT PLANS, AND AS PER SECTION 2519 OF THE STANDARD SPECIFICATIONS.

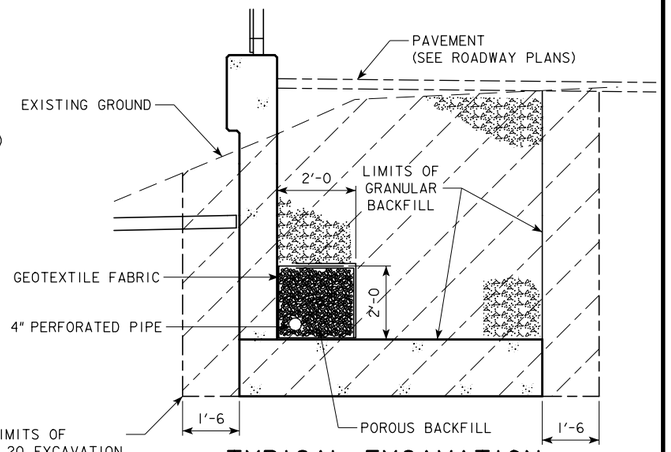
CHAIN LINK FABRIC IS TO BE PVC COATED BLACK IN ACCORDANCE WITH ASTM F668, CLASS 2B.



TYPICAL INSTALLATION BASE PLATE

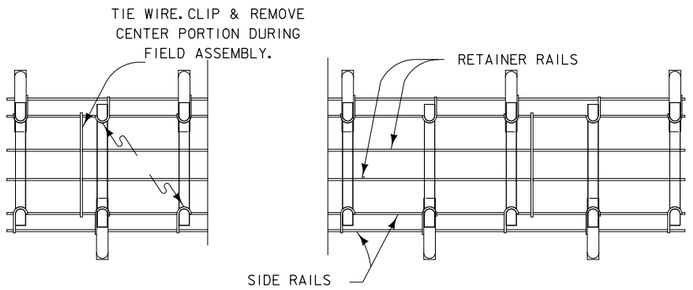


PLAN OF BASE PLATE

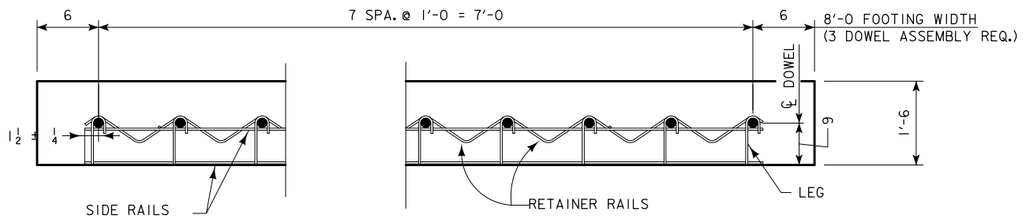


TYPICAL EXCAVATION, BACKFILL, AND DRAINAGE

PERFORATED PIPE DRAIN SHALL BE CONNECTED TO STORM SEWER INLET AT STA. 16+81 WITH 4" SOLID PIPE. PROVIDE TWO SEPARATE CONNECTIONS.



DOWEL ASSEMBLY PLAN



DOWEL ASSEMBLY ELEVATION

EXPANSION DOWEL NOTES:

EXPANSION DOWEL ARE REQUIRED AT EACH FOOTING EXPANSION JOINT.

ALL COST ASSOCIATED WITH EXPANSION DOWELS AND DOWEL SUPPORT ASSEMBLIES SHALL BE INCIDENTAL TO THE PRICE BID FOR "STRUCTURAL CONCRETE (MISCELLANEOUS)".

EXPANSION DOWEL BARS SHALL BE $1\frac{1}{2}$" DIAMETER, 18" LONG. CENTER TO CENTER SPACING OF DOWELS SHALL BE PARALLEL TO THE OTHER DOWELS IN THE ASSEMBLY WITHIN $\frac{1}{8}$". WHEN EXPANSION JOINT IS LOCATED BETWEEN FOOTINGS OF DIFFERENT SIZE, THE DOWEL SUPPORT ASSEMBLY SHALL BE SIZED FOR THE SMALLER FOOTING.

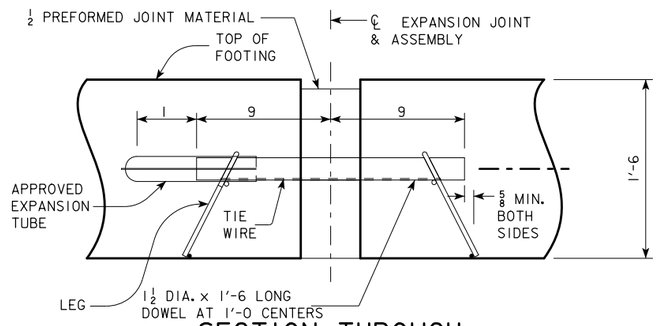
EACH DOWEL BAR SHALL BE FITTED WITH APPROVED 6" LONG EXPANSION TUBE AT ONE END. EXPANSION TUBE SHALL BE POSITIONED TO PROVIDE 1" CLEAR SPACE FOR DOWEL MOVEMENT. THE EXPANSION SIDE OF THE DOWEL SHALL BE COATED TO PREVENT BOND WITH THE FOOTING. THE OPPOSITE SIDE OF THE DOWEL SHALL BE WELDED TO THE WIRE DOWEL SUPPORT ASSEMBLY. DOWEL BARS SHALL BE PLACED TO ALTERNATE FIXED ENDS AND EXPANSION TUBE ENDS ALONG THE LENGTH OF THE SUPPORT ASSEMBLY.

WIRE SIZES SHOWN ARE THE MINIMUM REQUIRED. WIRES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 50 KSI. WELD ALTERNATELY THROUGHOUT.

DOWEL ASSEMBLY	
LABEL	MINIMUM WIRE SIZE
SIDE RAILS	#1/0 GAUGE (0.306 INCH DIA.)
LEG	#1/0 GAUGE (0.306 INCH DIA.)
TIE WIRE	#10 GAUGE (0.135 INCH DIA.)
RETAINER RAILS	0.250 INCH DIA.

CLIP AND REMOVE CENTER PORTION OF TIE WIRE DURING FIELD ASSEMBLY.

A MINIMUM OF 8 ANCHOR PINS (4 PER SIDE, EVENLY SPACED) ARE REQUIRED AT EACH EXPANSION JOINT TO PREVENT MOVEMENT OF EXPANSION DOWEL ASSEMBLY. SEE ROAD STANDARD PV-101 FOR TYPICAL ANCHOR PIN DETAIL.



SECTION THROUGH FOOTING EXPANSION JOINT

HANSON

DESIGN FOR A

261'-2 x VARI. HEIGHT REINFORCED CONCRETE RETAINING WALL DETAILS

BEGIN STATION 14+41.38 - 43.37 RT. (14 TH ST.)
END STATION 17+32.59 - 37.61 RT. (14 TH ST.)

OCTOBER, 2014

SCOTT COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION

DESIGN SHEET NO. 6 OF 6 FILE NO. 30253 DESIGN NO. 1120

LINE STYLE LEGEND OF CROSS SECTION SHEETS (ROAD)

- Existing Ground Line
- Proposed Template
- Proposed Topsoil Placement
- Additional Topsoil Removal
- Subgrade Treatment
- Granular Shoulder
- Pavement
- Existing Pipe\RCB
- Proposed Pipe\RCB
- Proposed Dike
- All Elements Associated with Proposed Entrances

LINE STYLE LEGEND OF CROSS SECTION SHEETS (SOILS)

- TS — Topsoil (Class 10)
- TS A — Topsoil (Type A Disposal)
- TS B — Topsoil (Type B Disposal)
- TS C — Topsoil (Type C Disposal)
- CL 10 — Class 10 Materials
- SEL LO — Select Loams And Clay-Loams
- SEL SA — Select Sand
- UNS A — Unsuitable Type A Disposal
- UNS B — Unsuitable Type B Disposal
- UNS C — Unsuitable Type C Disposal
- SHALE — Shale
- WASTE — Waste
- B&W LS — Broken and Weathered Rock
- ROCK — Solid Rock
- BLDRS — Boulders

Note: All layer lines and descriptions identify layers above the line.

Note: Vertical or near vertical lines connecting soil layers at edges of cross sections are only for the purpose of calculating template quantities and do not depict soil stratification.

SYMBOL LEGEND OF CROSS SECTION SHEETS

Existing ROW — Existing Right-of-Way Limit

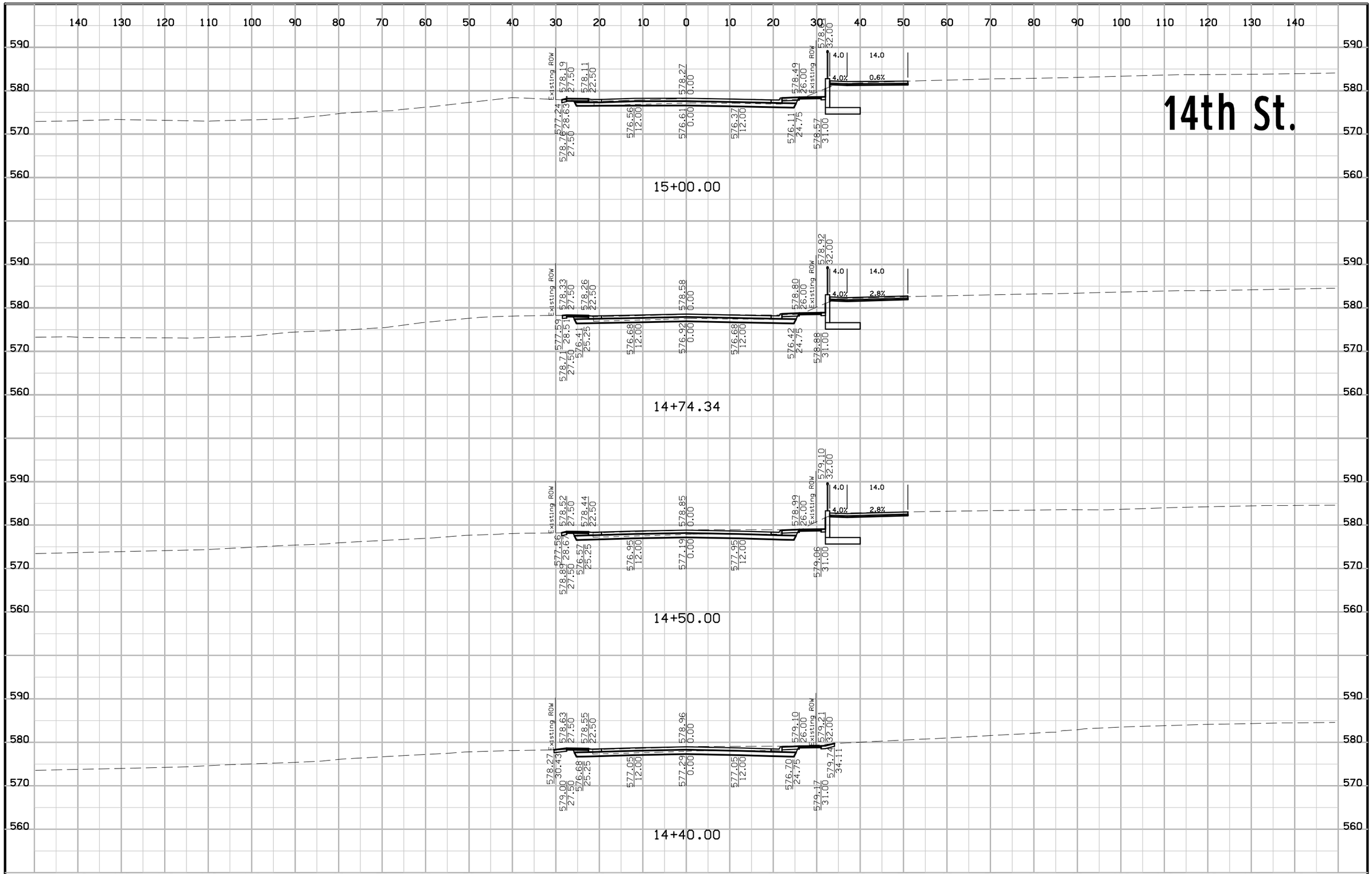
Proposed ROW — Proposed Right-of-Way Limit

Temporary ROW — Temporary Right-of-Way Limit

CROSS SECTION LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES W & X)

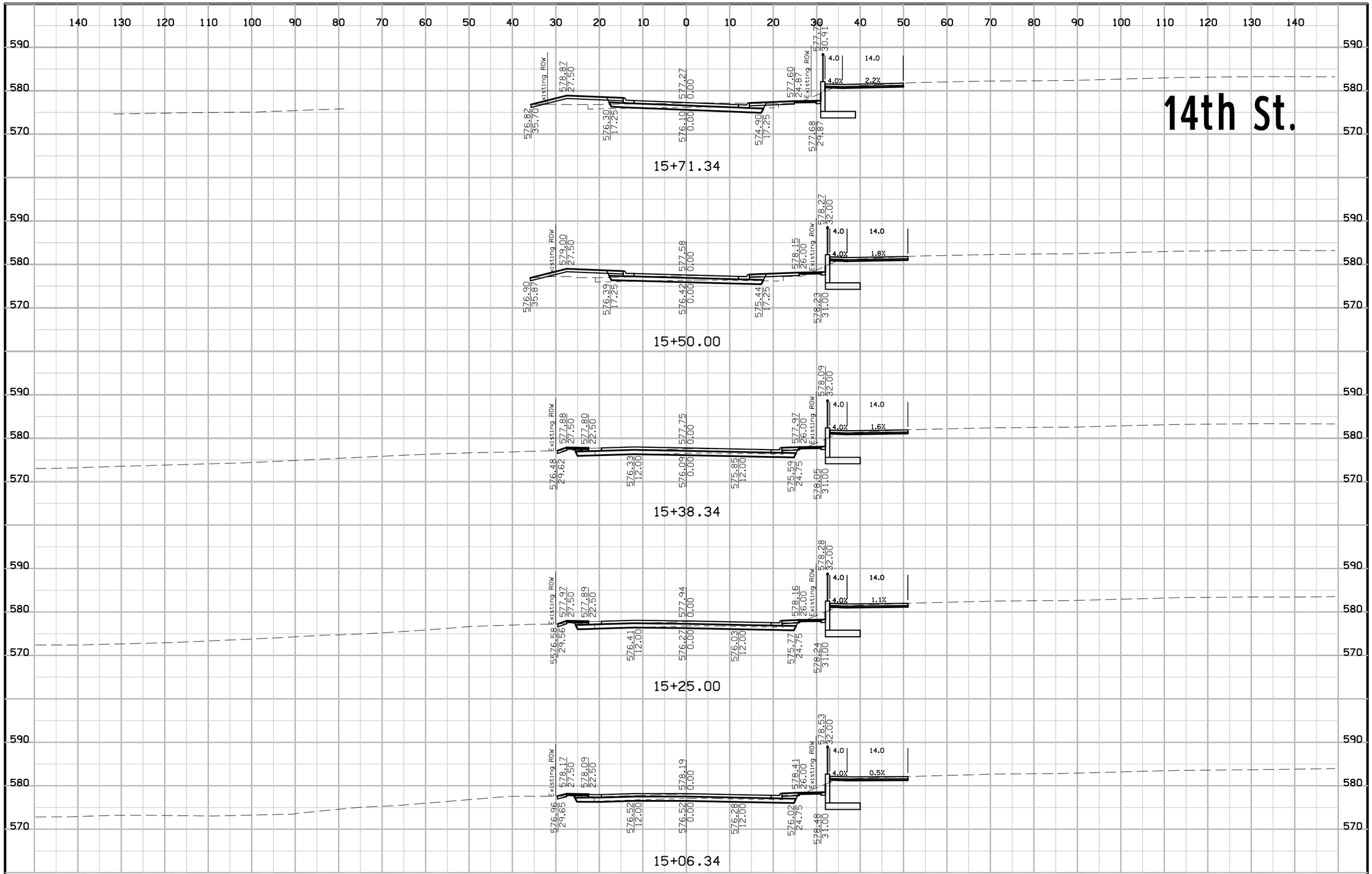
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.2

8:47:08 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

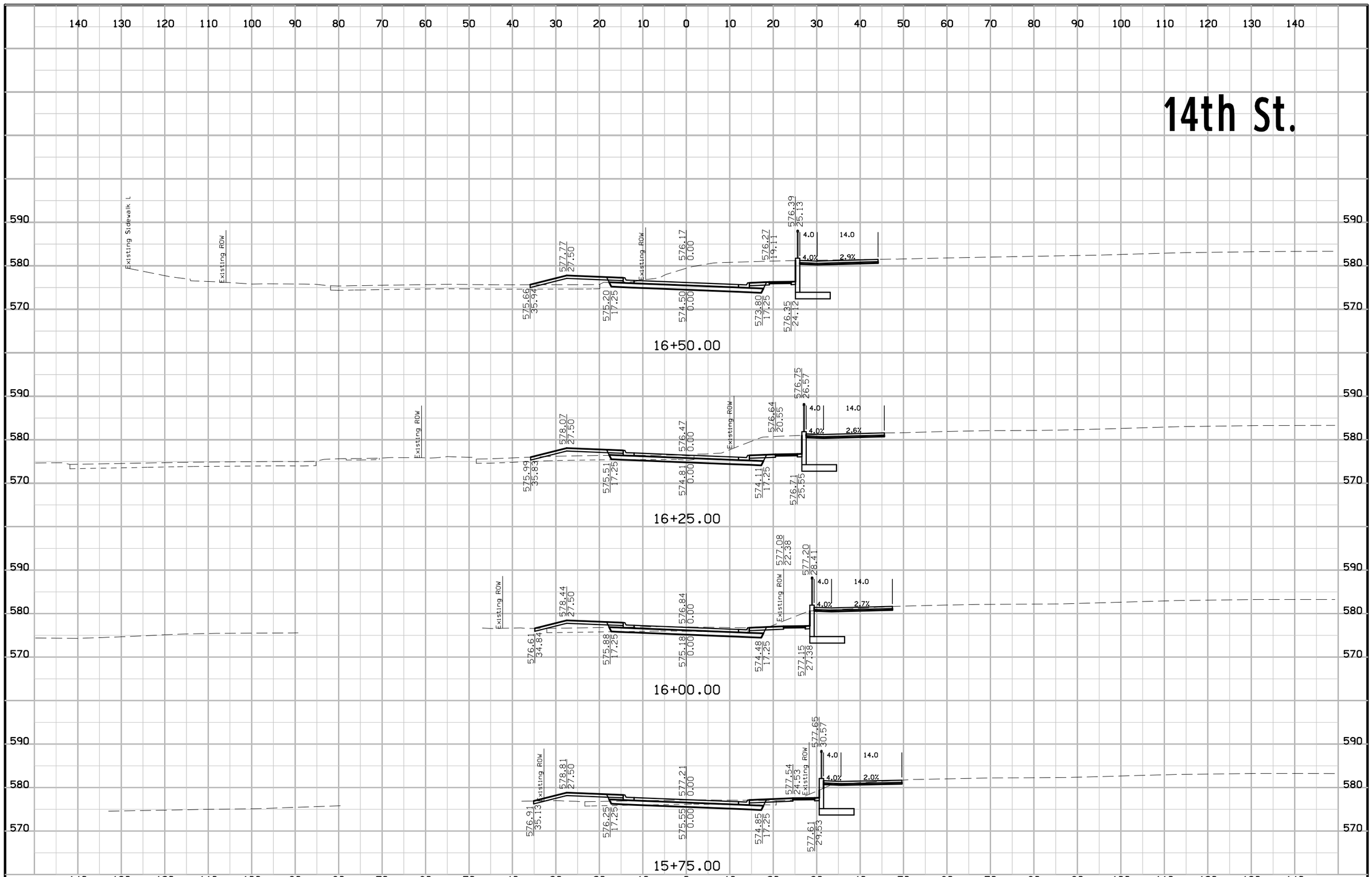
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.3

8:47:09 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

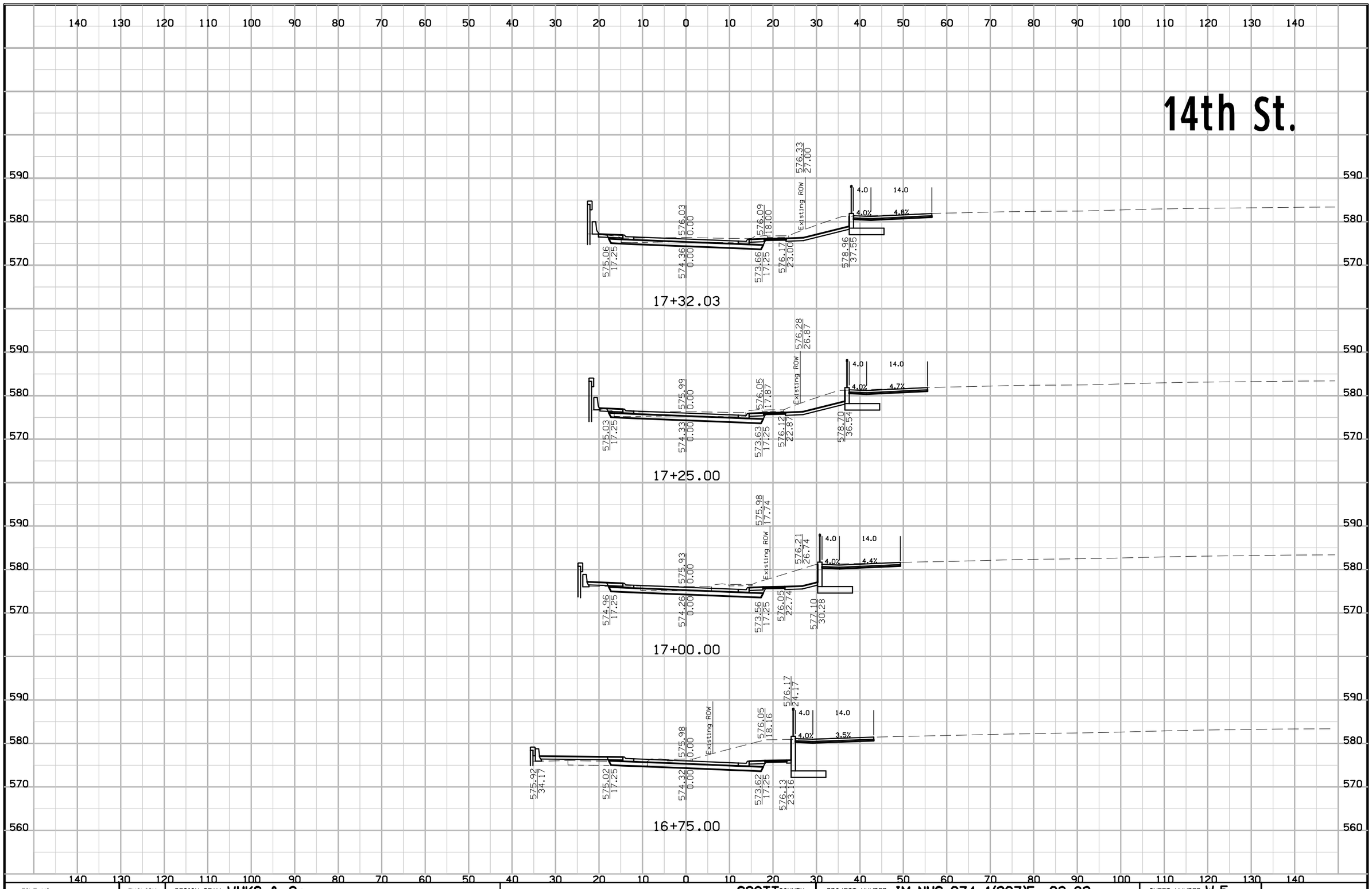
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.4

8:47:10 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

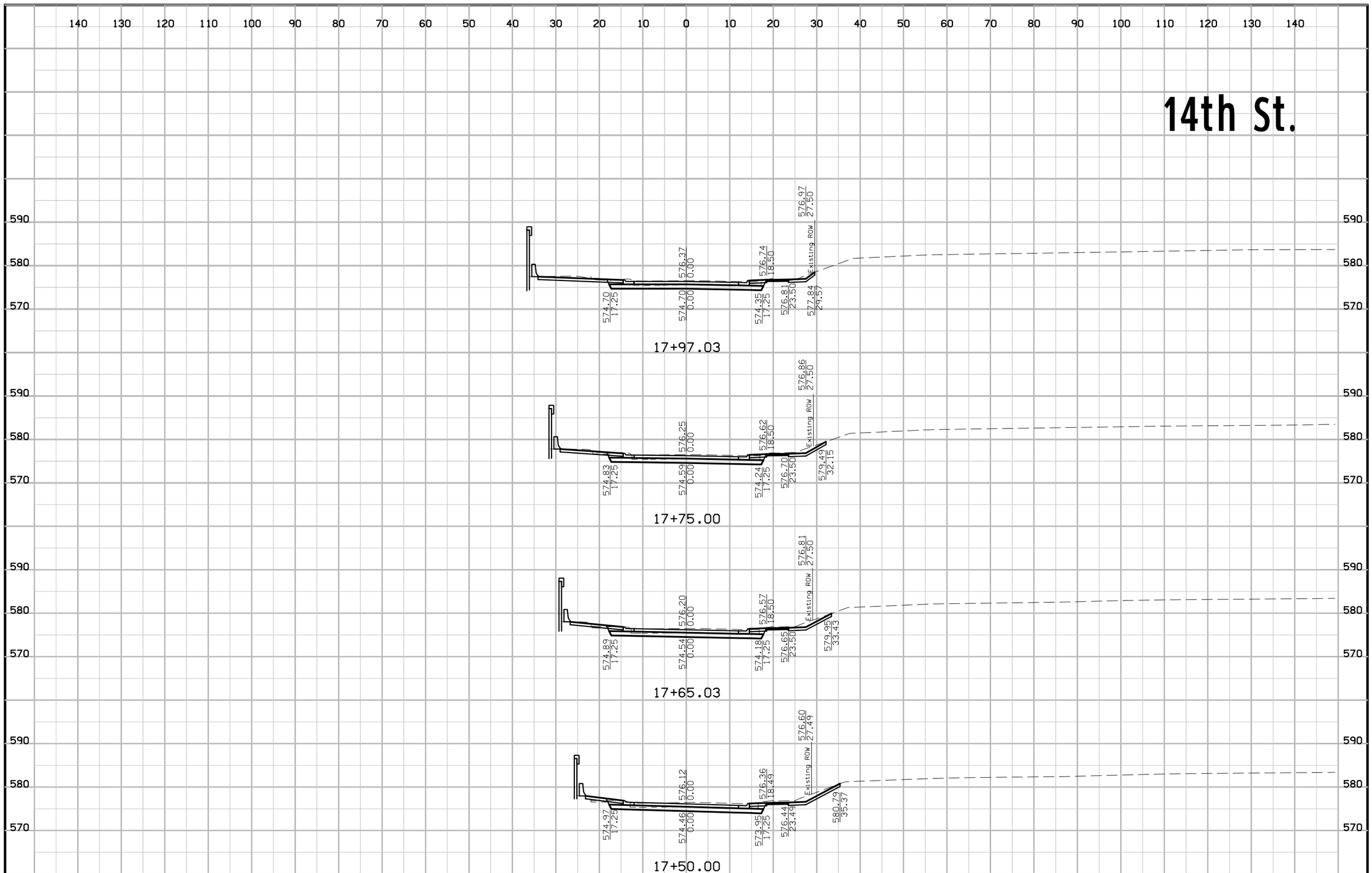
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.5

8:47:11 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

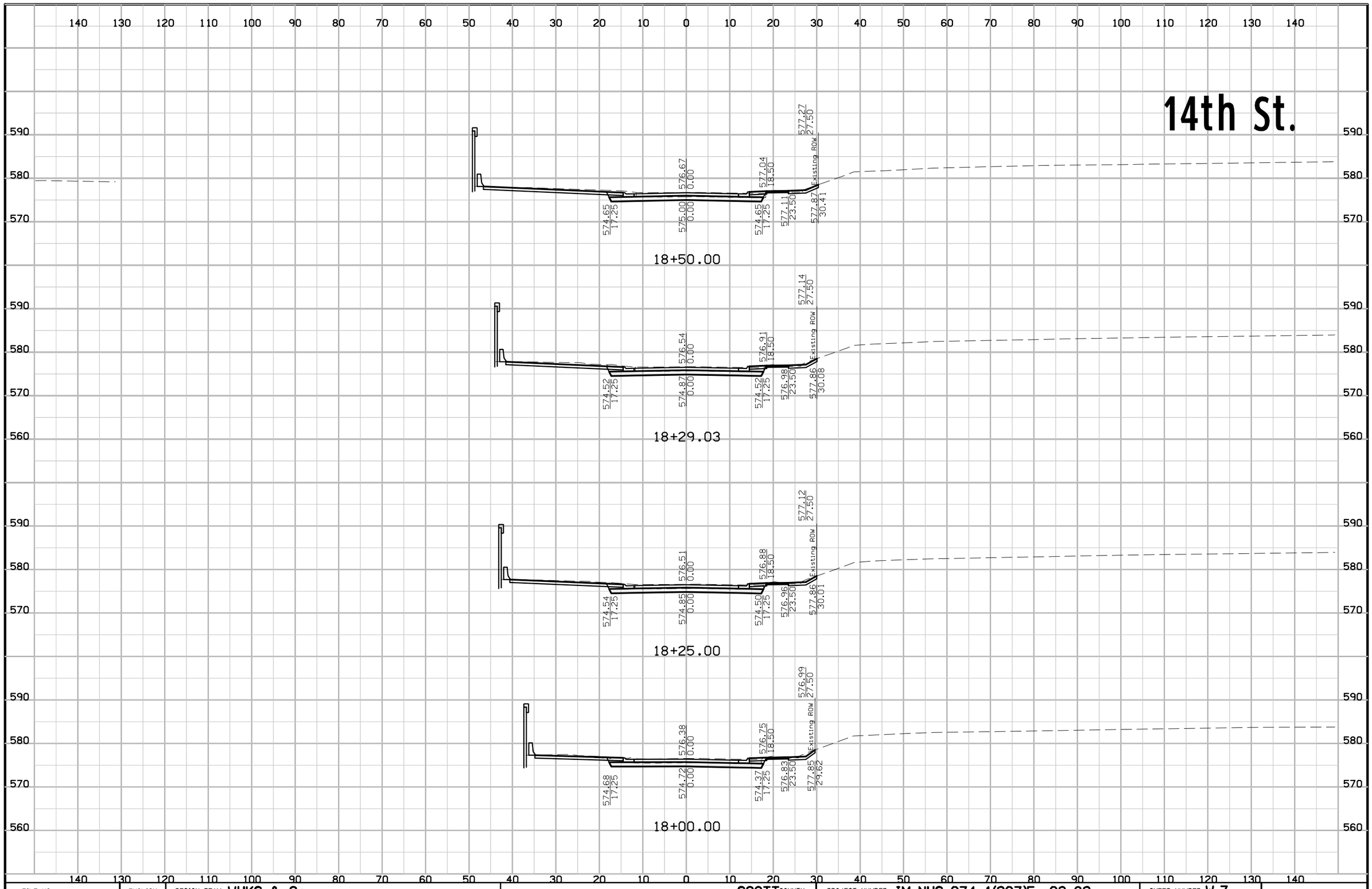
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.6

8:47:12 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

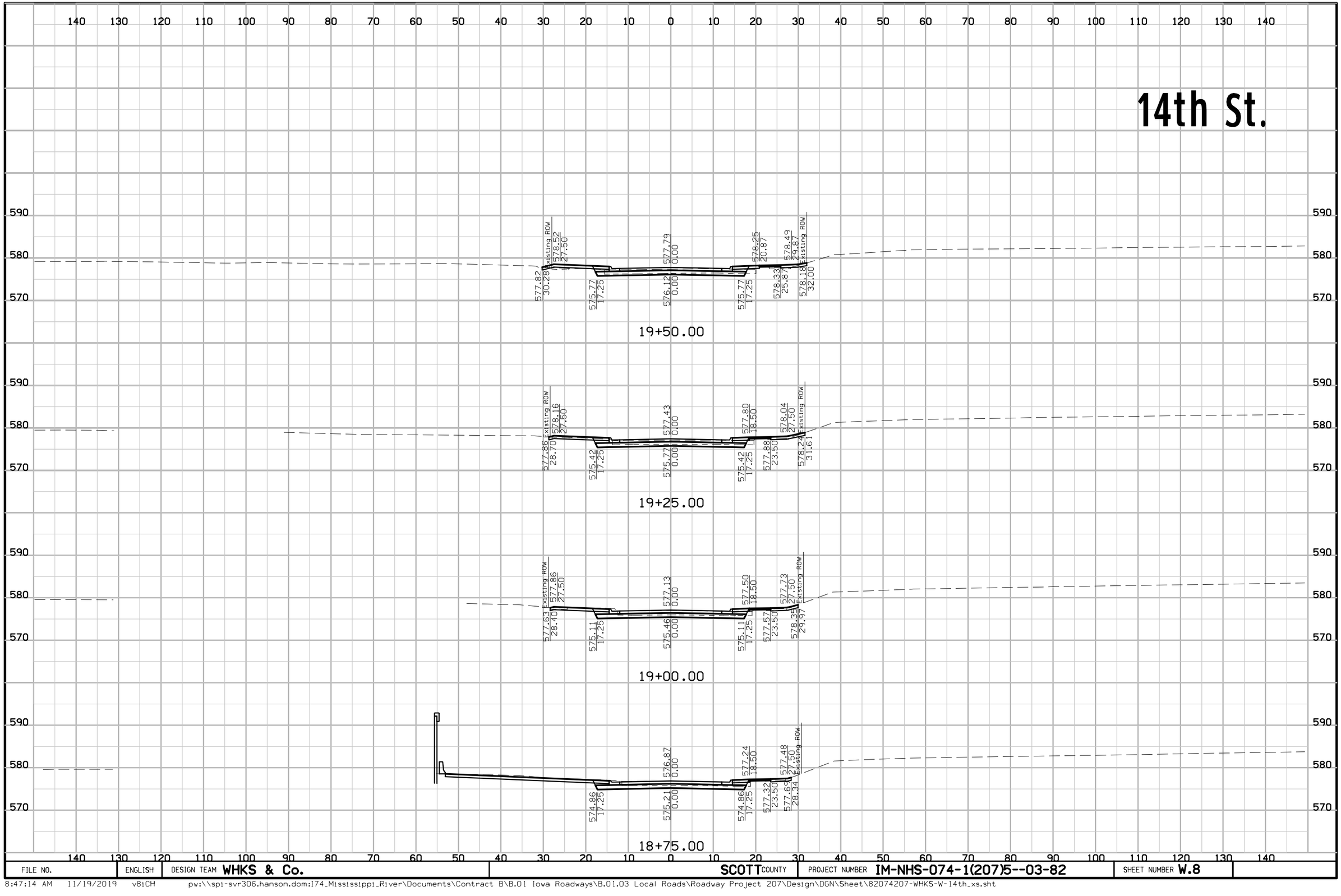
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.7

8:47:13 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

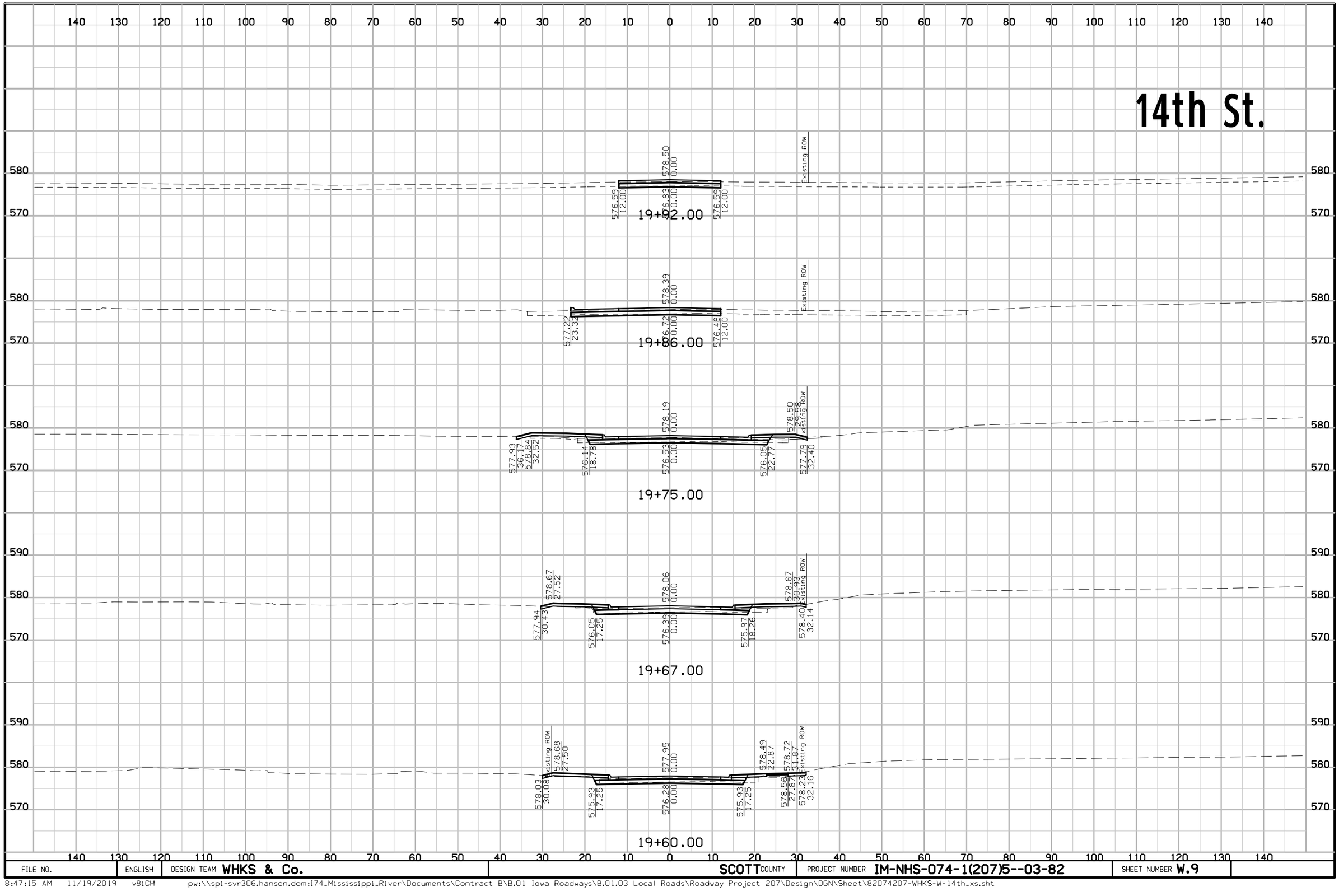
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.8

8:47:14 AM 11/19/2019 v8ICH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

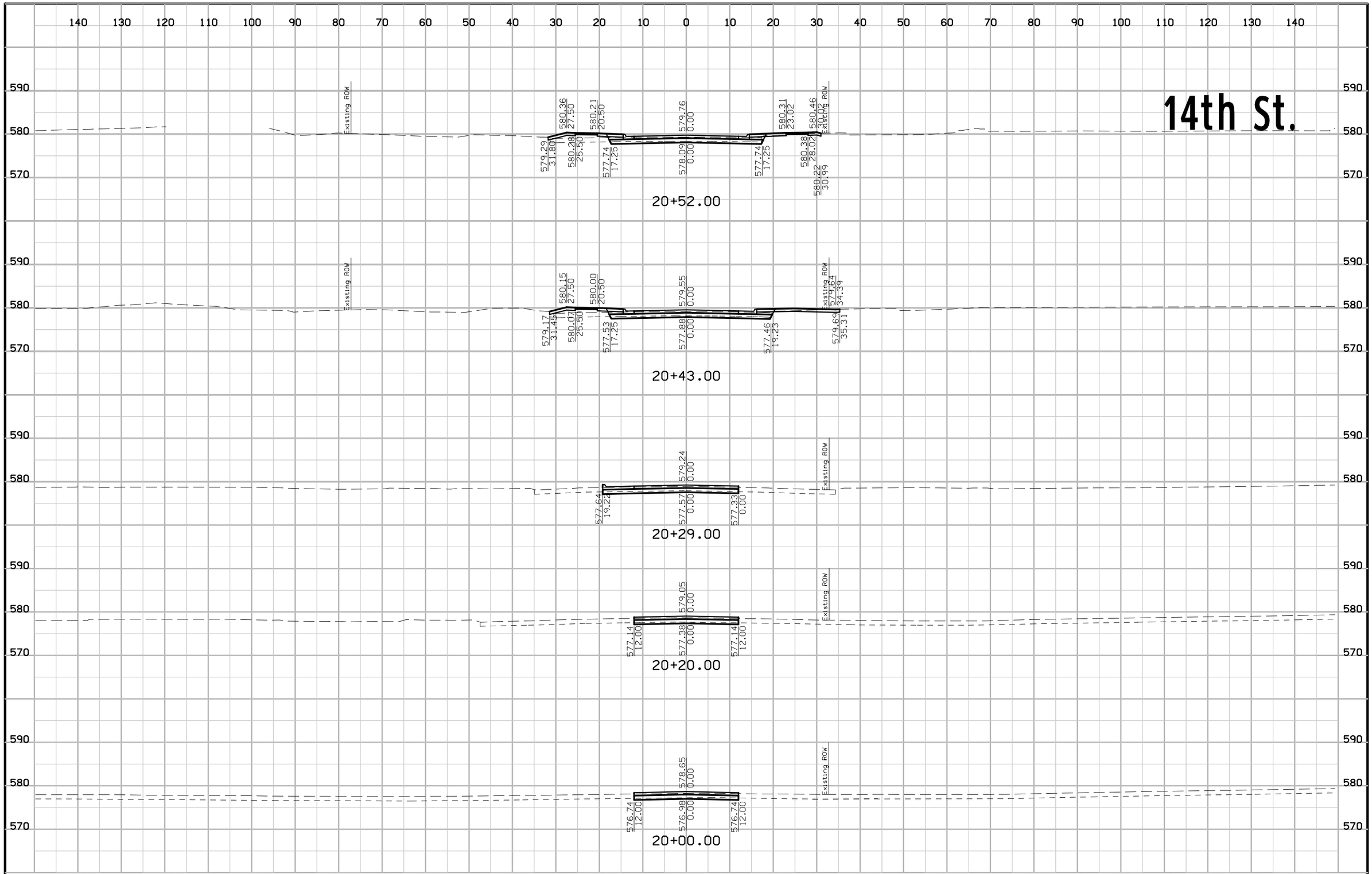
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.9

8:47:15 AM 11/19/2019 v8ICH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

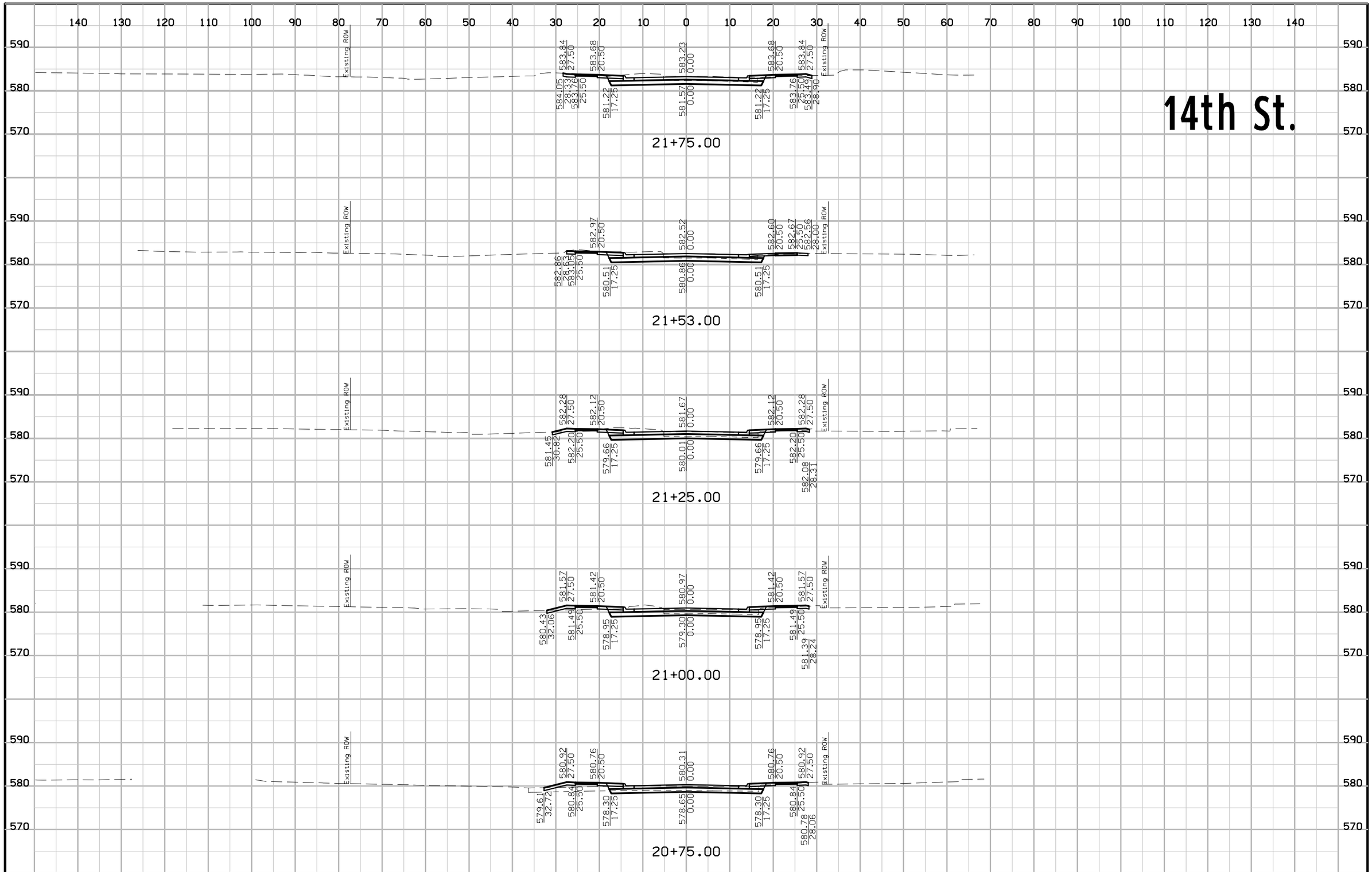
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.10

8:47:16 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

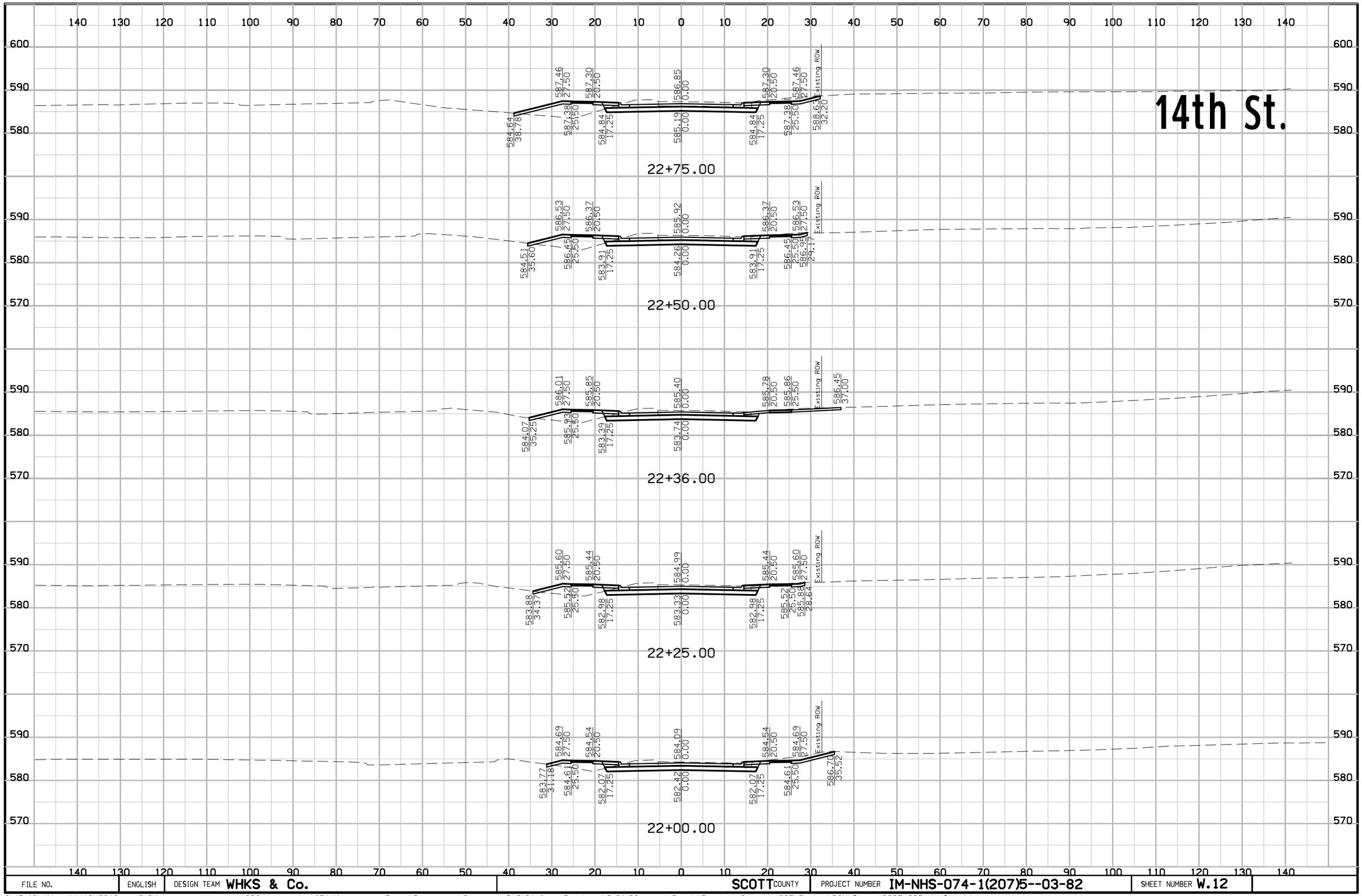
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.11

8:47:17 AM 11/19/2019 v8ICH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

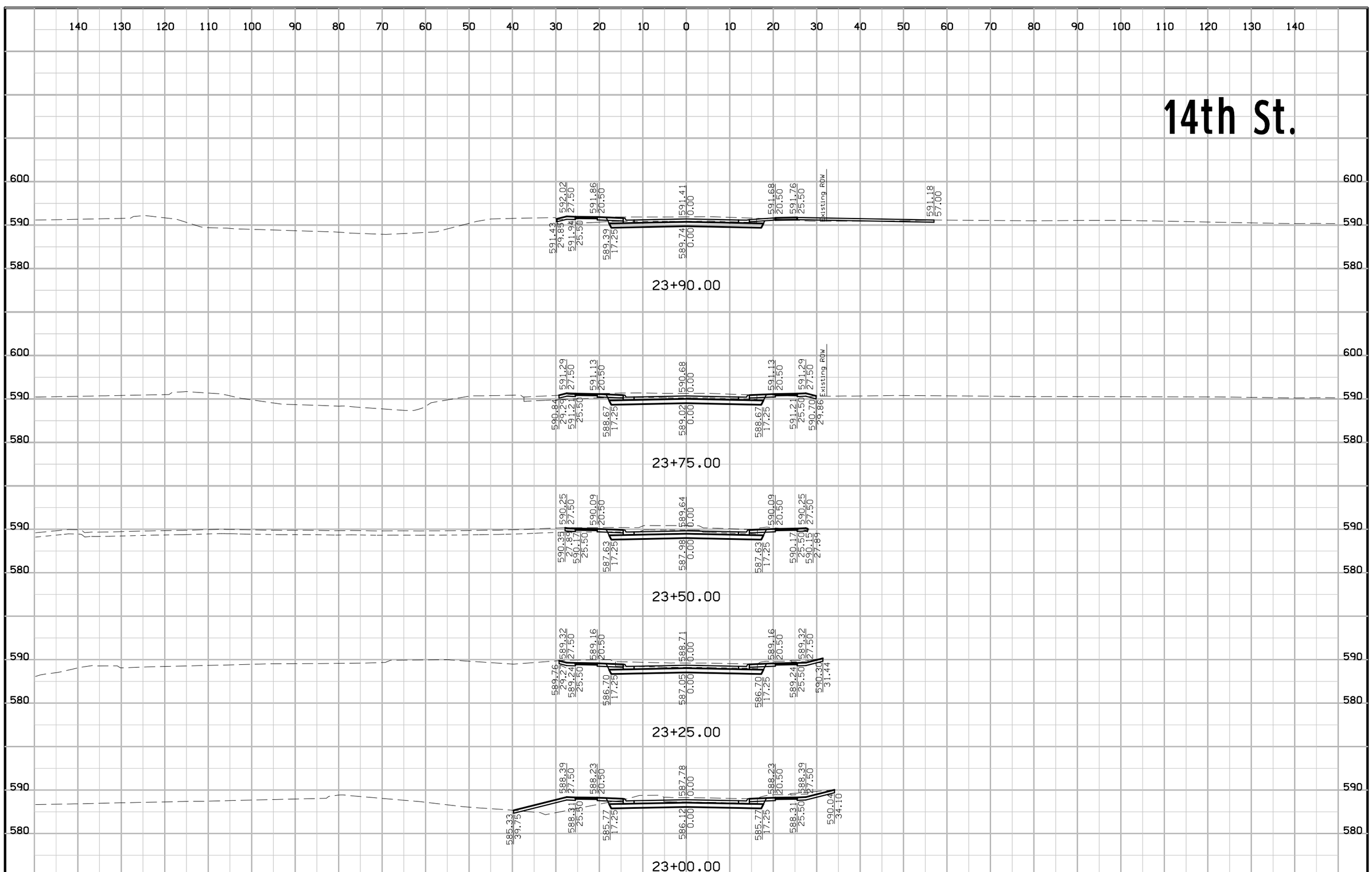
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.12

8:47:18 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

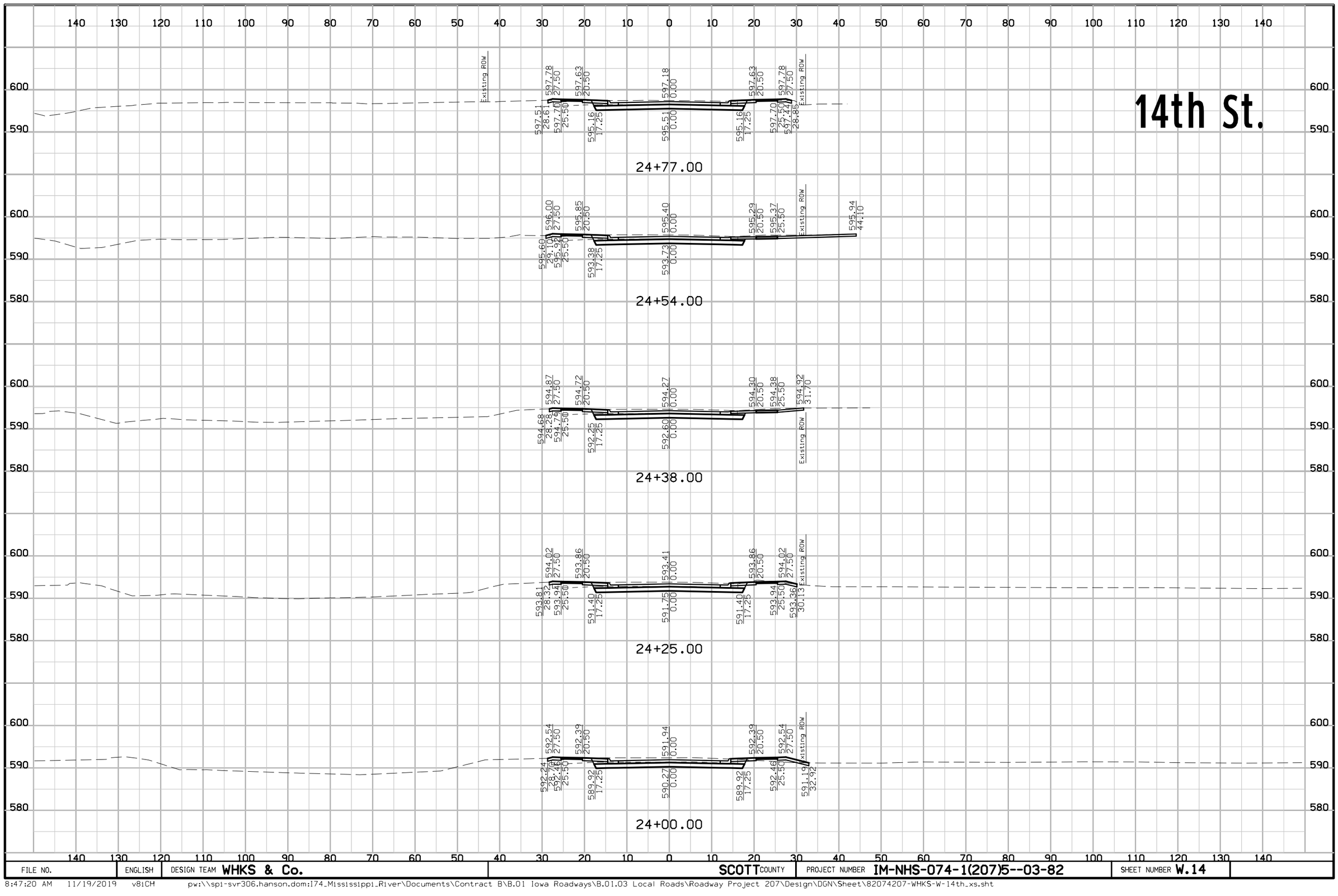
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.13

8:47:19 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

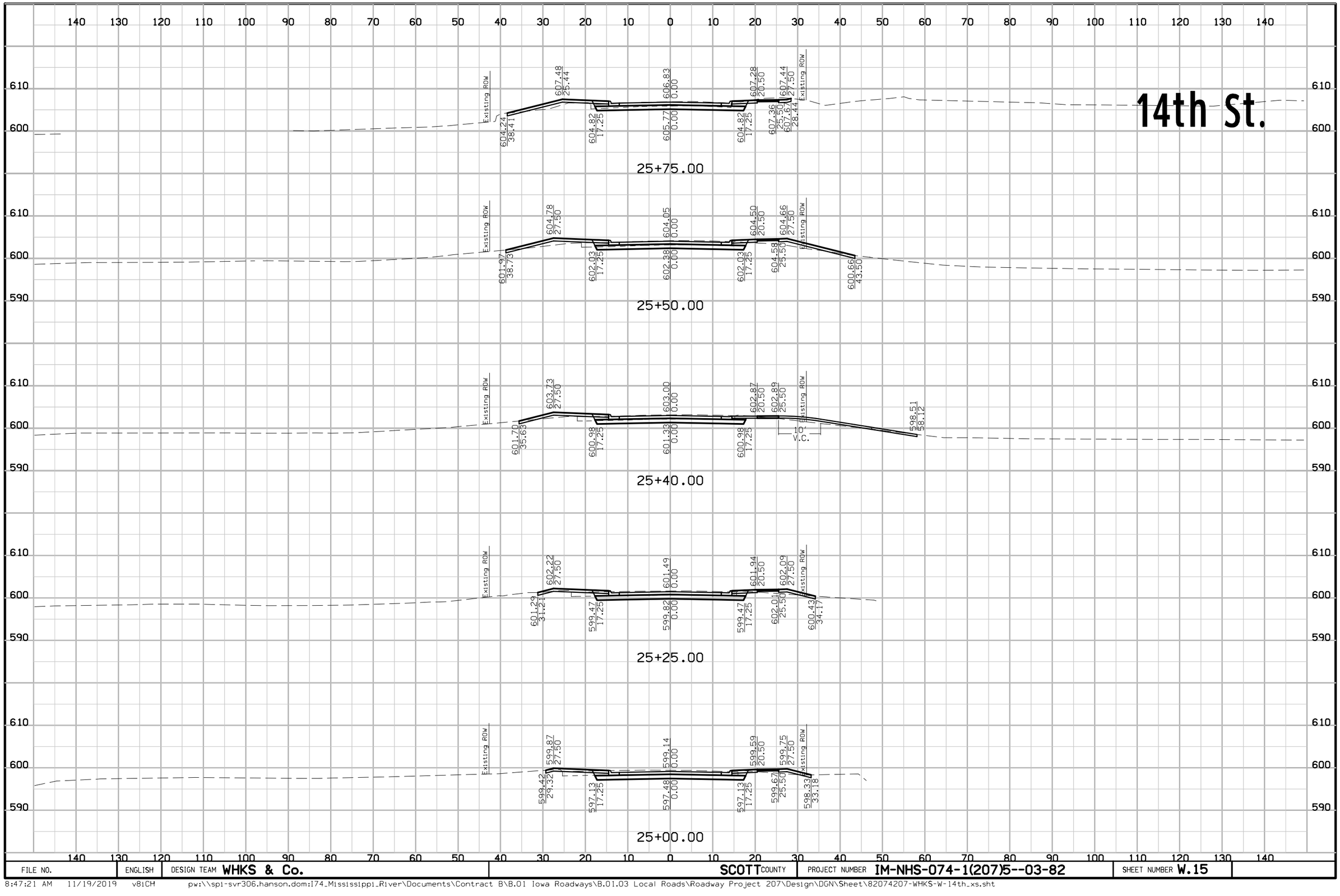
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.14

8:47:20 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

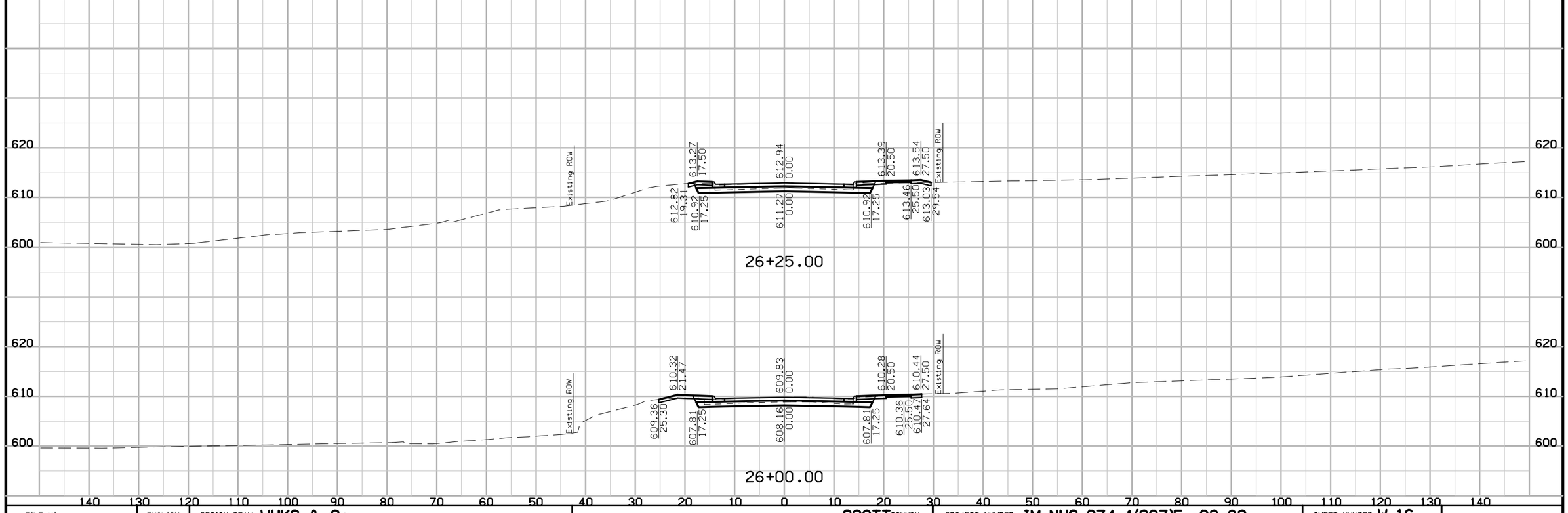
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.15

8:47:21 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

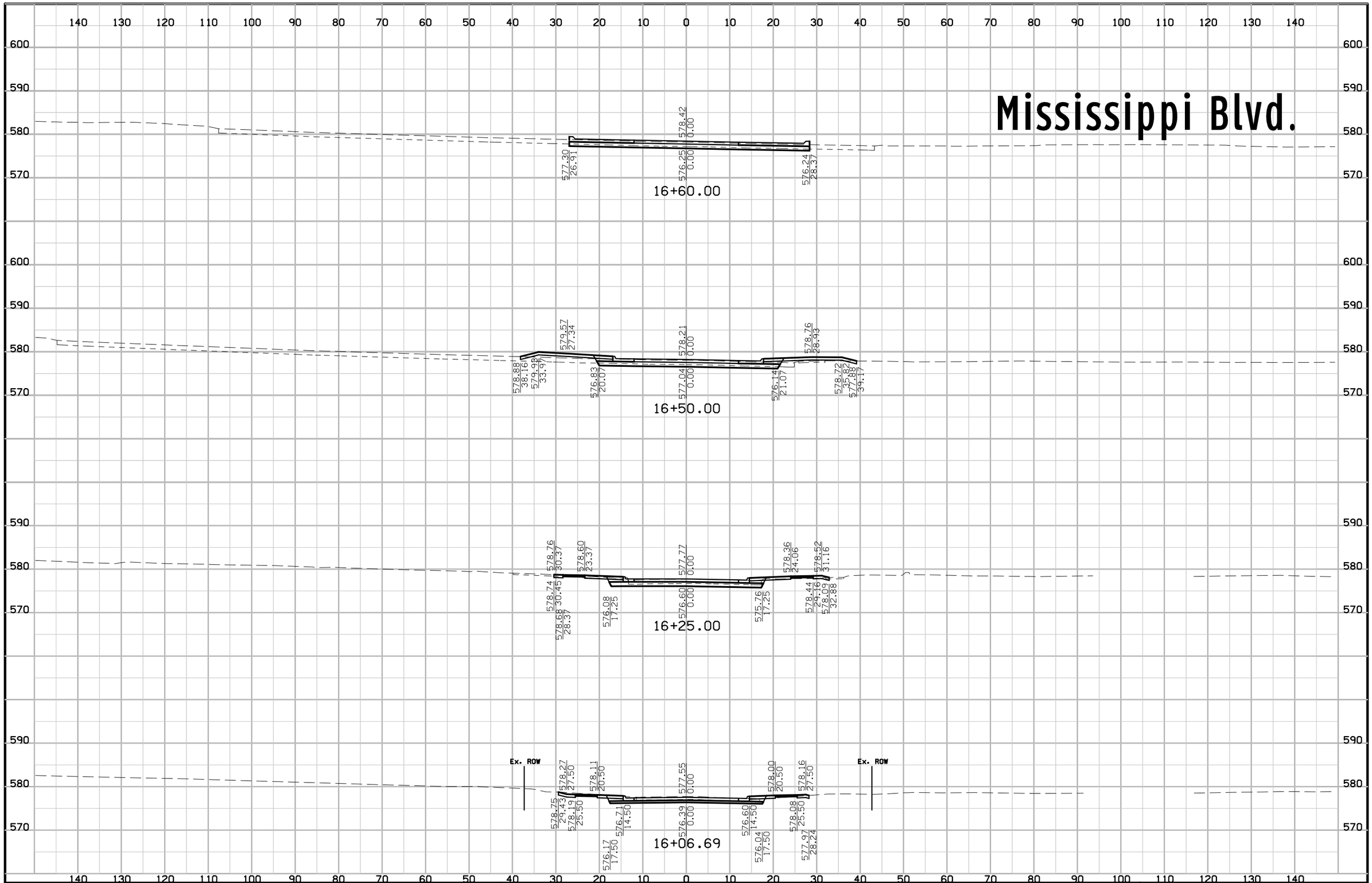
14th St.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER W.16

8:47:22 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-W-14th_xs.sht

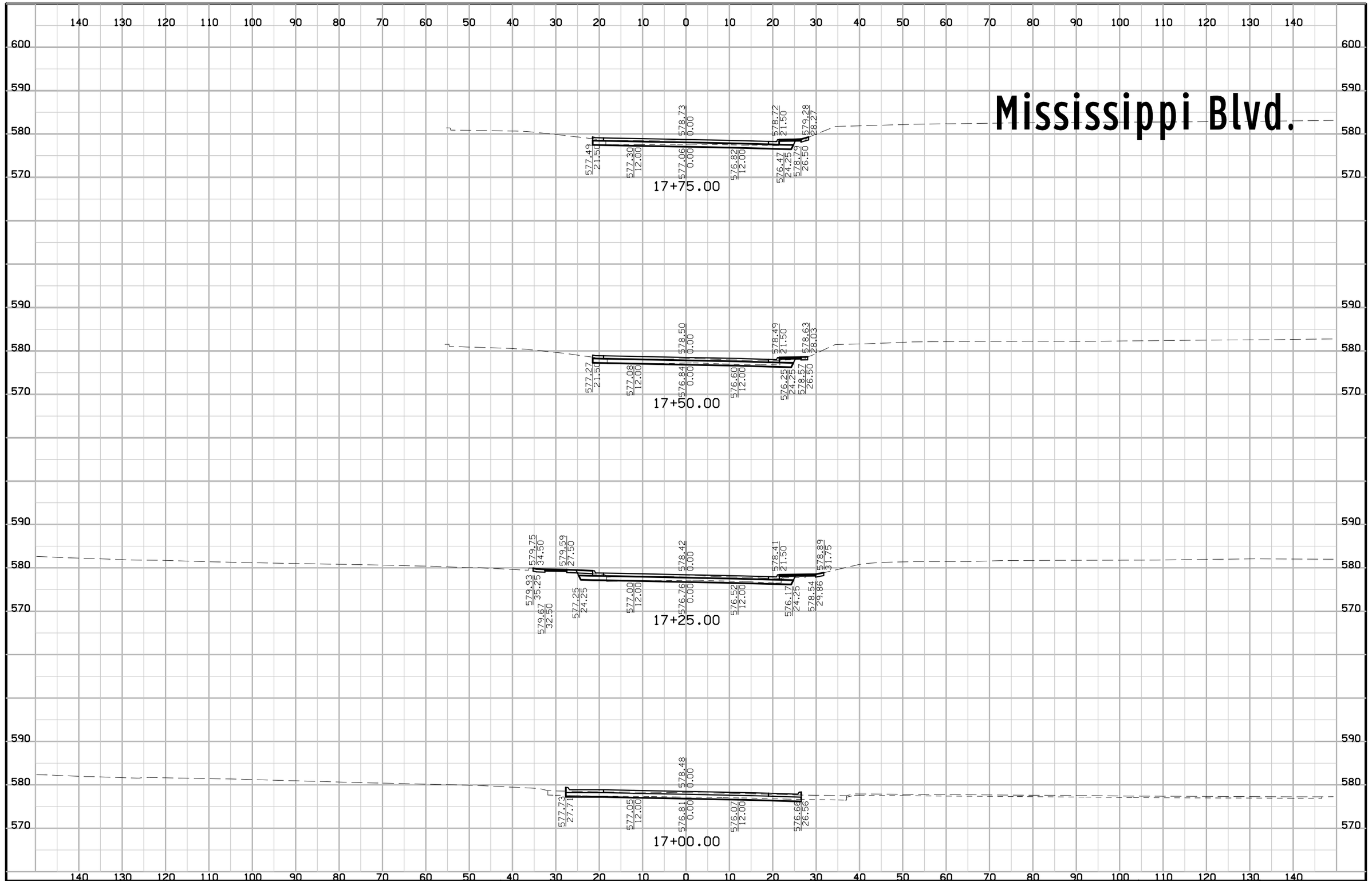
Mississippi Blvd.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER X.1

8:47:25 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-X-HRMS_xs.sht

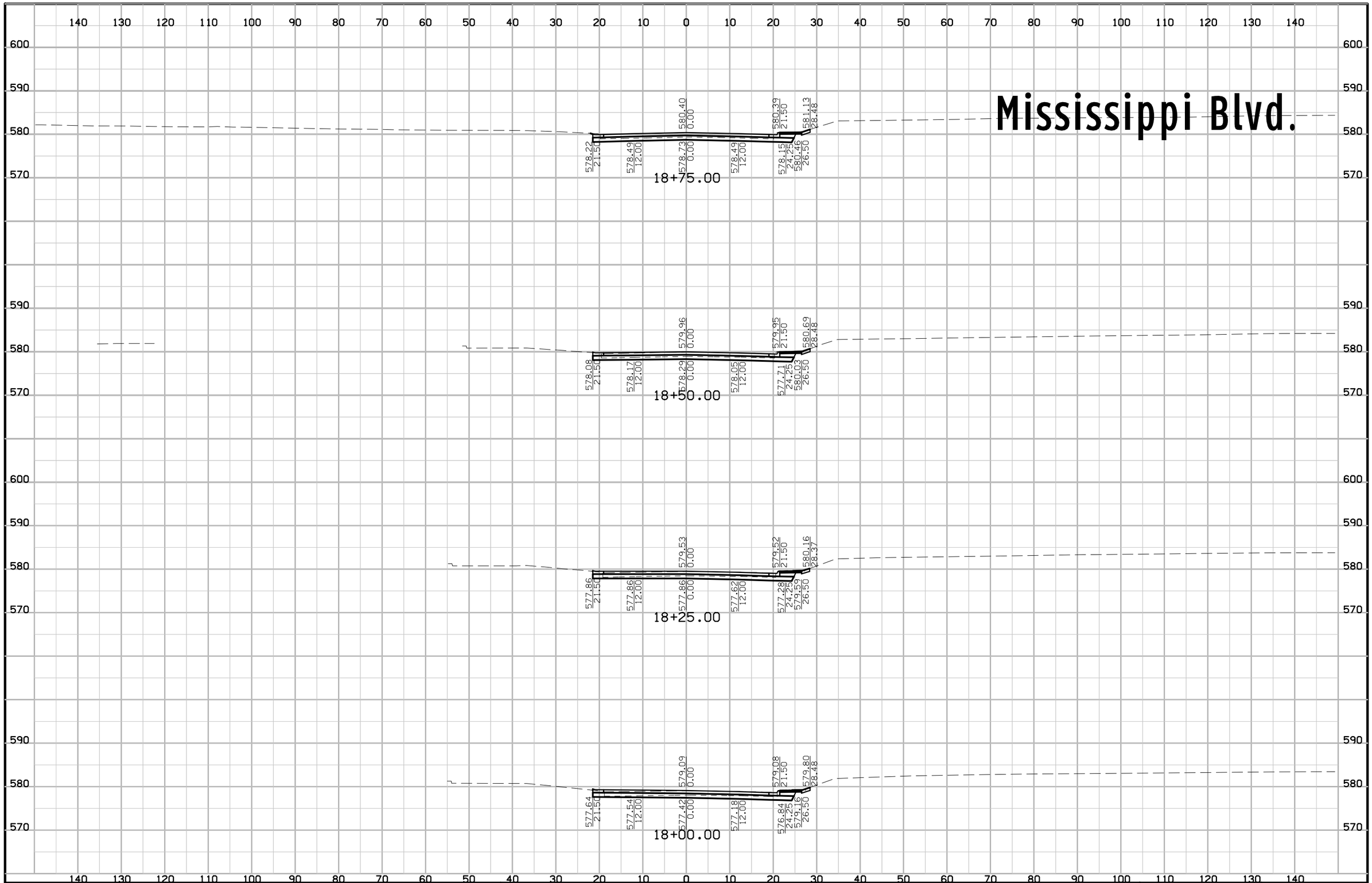
Mississippi Blvd.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER X.2

8:47:26 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-X-HRMS_xs.sht

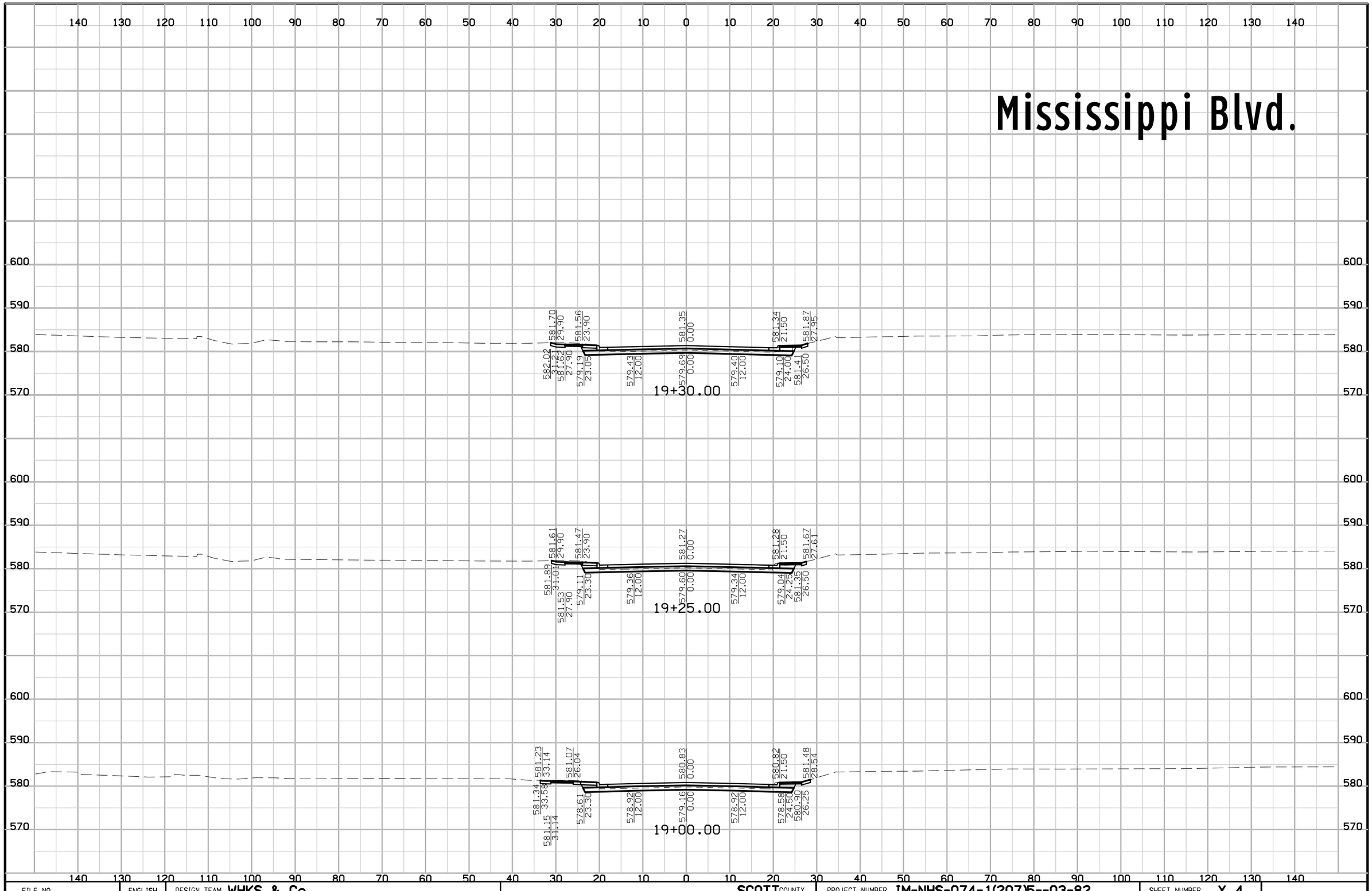
Mississippi Blvd.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER X.3

8:47:27 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-X-HRMS_xs.sht

Mississippi Blvd.



FILE NO.	ENGLISH	DESIGN TEAM WHKS & Co.	SCOTT COUNTY	PROJECT NUMBER IM-NHS-074-1(207)5--03-82	SHEET NUMBER X.4

8:47:28 AM 11/19/2019 v8iCH pw:\\spi-svr306.hanson.dom:I74_Mississippi_River\Documents\Contract B\B.01 Iowa Roadways\B.01.03 Local Roads\Roadway Project 207\Design\DGN\Sheet\82074207-WHKS-X-HRMS_xs.sht