CLINTON COUNTY

PCC PAVEMENT - GRADE AND REPLACE

STP-U-1415(625)--70-23

LETTING DATE

DECEMBER 15, 2015

This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The Contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is a part of these contract documents. Refer to Section 2602 of the Iowa DOT Standard Specifications for additional information.

IOWA DOT

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

URBAN ROAD SYSTEM

CLINTON COUNTY

CITY OF CLINTON

PROJ. NO. STP-U-1415(625)--70-23

PCC PAVEMENT - GRADE AND REPLACE

IN THE CITY OF CLINTON, 19TH AVENUE NORTH PHASE III FROM APPROXIMATELY 1,100' WEST OF RANDALL COURT TO NORTH 2ND STREET

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

REVISIONS

TOTAL	219
PROJECT IDENTIFICATION NUMBER	
PROJECT NUMBER	STP-U-1415(625)--70-23
R.O.W. PROJECT NUMBER	

INDEX OF SHEETS

105-3
10-18-05

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C.1-C.12	QUANTITIES AND TABULATIONS
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E.1-E.2	PLAN AND PROFILE - 3RD STREET
E.3	PLAN AND PROFILE - PERSHING STREET
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H.1-H.8	RIGHT OF WAY PLAN
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X.1-X.11	CROSS SECTIONS - NORTH 3RD STREET

MODIFIED 19TH AVE NORTH 101-5

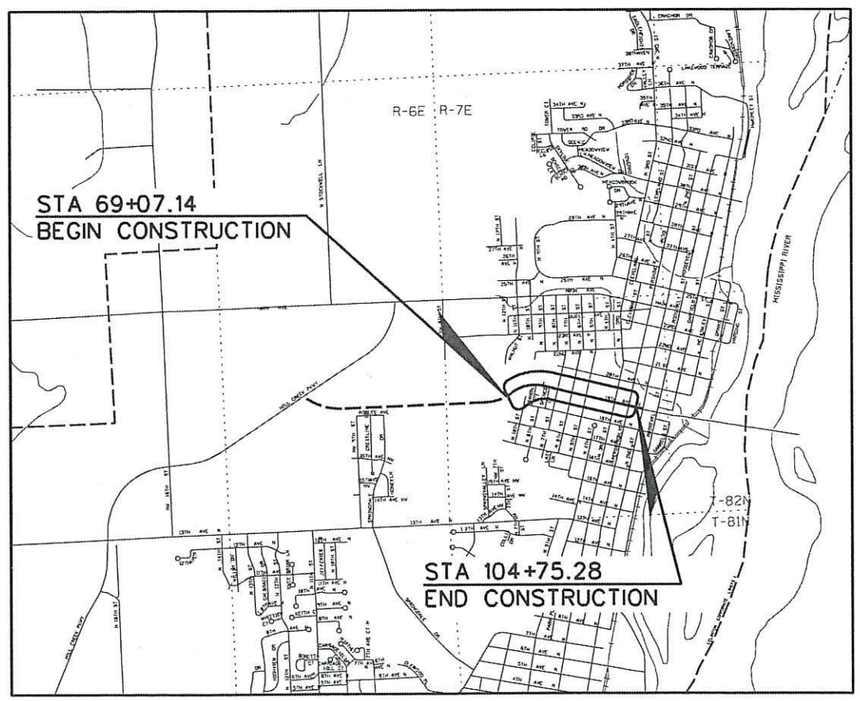
DESIGN DATA URBAN

2010	AADT	2990	V.P.D.
2030	AADT	11,000	V.P.D.
2030	DHV		V.P.H.
TRUCKS		2	%
Total Design ESALs		582,000	

MILEAGE SUMMARY

105-1
09-27-94

Div.	Location	Lin. Ft.	Miles
	19TH AVENUE NORTH STA. 69+07.14 - STA. 104+75.28	3,568	0.68
	NORTH 3RD STREET STA. 295+21.74 - STA. 301+67.52	646	0.12
	TOTAL	4,214	0.80



CITY OF CLINTON, IOWA

VICINITY MAP
NOT TO SCALE

APPROVED FOR LETTING

CITY OF CLINTON — DATE 9/22/2015

LICENSED PROFESSIONAL ENGINEER
ANDREW G. BURKE
19498
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.

Andrew G. Burke, P.E. — Date 09/18/15

License Number 19498

My License Renewal Date is December 31, 2016

Pages or sheets covered by this seal:

A.1-A.2, B.1-B.2, C.1-C12, D.1-D.7, E.1-E.3, G.1, H.1-H.8, J.1-J.11, L.1-L.22, M.1-M.10, R.1-R.9, S.1-S.12, T.1-T.2, U.1-U.5, W.1-W.88, X.1-X.11

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.1	ANDREW G. BURKE P.E.	Primary Signature Block
N.1	JUSTIN C. JACKSON P.E.	Signalization
U.06	MONICA SMITH P.E., CPESC	Retaining Wall

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com

STANDARD SYMBOLS

Features	Existing	Proposed
Spot Elevation	93.0	93.0
Contour Elevation	93	93
Fence (Barbed, Field, Hog)		
Fence (Chain Link)		
Fence (Wood)		
Tree Line		
Tree Stump		
Deciduous Tree or Shrub		
Coniferous Tree or Shrub		
Underground Telephone	T	T
Overhead Telephone	OT	OT
Fiber Optic Telephone	FO	FO
Underground Electric	E	E
Overhead Electric	OE	OE
Underground Television	TV	TV
Overhead Television	OTV	OTV
Gas Main with Size	4" G	4" G
High Pressure Gas Main with Size	4" HPG	4" HPG
Low Pressure Gas Main with Size	4" LPG	4" LPG
Water Main with Size	8" W	8" W
Sanitary Sewer with Size	8" S	8" S
Sanitary Manhole		
Storm Sewer with Size	12" ST	12" ST
Storm Manhole		
Single Storm Sewer Intake		
Double Storm Sewer Intake		
Fire Hydrant		
Fire Hydrant on Building		
Water Main Valve		
Water Service Valve		
Well		
Utility Pole		
Guy Anchor		
Utility Pole with Light		
Street Light		
Yard Light		
Electric Box	EB	
Electric Transformer	E	
Traffic Sign		
Telephone Junction Box	T	
Telephone Manhole	T	
Gas Valve		
Gas Manhole	G	
Gas Apparatus	G	
Cable TV Junction Box	TV	
Cable TV Manhole	TV	
Fence Post or Guard Post		
Underground Storage Tank	UST	
Above Ground Storage Tank	AST	
Sign		
Satellite Dish		
Mailbox		
Soil Boring		
Tree Removal		
Tree Protection		

Survey	Found	Set
Section Corner	▲	△
1/2" Rebar, Cap # 11579 (Unless Otherwise Noted)	●	○
ROW Marker	■	□
ROW Rail		
Control Point	CP	
Bench Mark		
Platted Distance	P	
Measured Bearing & Distance	M	
Recorded As	R	
Deed Distance	D	
Calculated Distance	C	
Minimum Protection Elevation	MPE	
Centerline		
Section Line		
1/4 Section Line		
1/4 1/4 Section Line		
Easement Line		

UTILITY NOTES:

1. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE UTILITY COMPANIES WITH RESPECT TO RELOCATING AND CONSTRUCTING THEIR FACILITIES. CALL IOWA ONE CALL FOR UTILITY LOCATIONS 48 HOURS BEFORE CONSTRUCTION, 1-800-292-8989.
2. BEFORE STARTING CONSTRUCTION IN EACH STAGE, THE CONTRACTOR SHALL EXCAVATE ALL UTILITIES WHICH MAY BE IN CONFLICT WITH PROPOSED CONSTRUCTION. THE SURVEYOR SHALL OBTAIN ELEVATIONS OF THE UTILITIES AND NOTIFY THE ENGINEER. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO RECONSTRUCT WORK IN CONFLICT WITH UTILITIES BY NOT FOLLOWING THIS WORK.
3. THE COST OF STAGING CONSTRUCTION FOR UTILITY INSTALLATION, PROVIDING TEMPORARY SUPPORTS FOR ALL UTILITIES WITH ASSISTANCE FROM AFFECTED UTILITY COMPANY, AND ALL COSTS INVOLVED IN COORDINATING WITH UTILITIES SHALL BE INCLUDED IN AND CONSIDERED INCIDENTAL TO THE CONTRACT BID PRICE, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
4. THE CONTRACTOR SHALL EXERCISE ALL CAUTION AND USE CONSTRUCTION METHODS AND EQUIPMENT TO COMPLETE THE WORK WITHOUT DAMAGING UTILITIES.
5. THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.

GENERAL NOTES:

1. CONFINE GRADING OPERATIONS TO WITHIN THE GRADING LIMITS AS SHOWN ON THE PLANS UNLESS AUTHORIZED BY THE ENGINEER TO DO OTHERWISE. THE CONTRACTOR SHALL COMPENSATE THE PROPERTY OWNER FOR DAMAGES OUTSIDE OF THE AUTHORIZED GRADING LIMITS.
2. MAINTAIN POSITIVE DRAINAGE AT ALL TIMES. EXISTING STORM SEWER THAT IS DESIGNATED TO BE REMOVED SHALL BE REMOVED ONLY WHEN CONSTRUCTION HAS PROGRESSED TO THAT LOCATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING FEATURES ON SITE (SIGNS, DRIVES, CURBS, SIDEWALKS, PLANT MATERIAL, LIGHTS BUILDINGS, FENCES, PORCHES, E.T.C.) WHICH MAY OCCUR DURING CONSTRUCTION. EXERCISE EXTREME CARE WHEN PERFORMING CONSTRUCTION ACTIVITIES NEAR EXISTING STRUCTURES, IN PARTICULAR THE HISTORIC STRUCTURE LOCATED AT 321 19TH AVENUE NORTH. THE CONTRACTOR SHALL USE EQUIPMENT AND CONSTRUCTION METHODS THAT REDUCE THE RISK OF DAMAGE AND MINIMIZES VIBRATIONS TO THE SURROUNDING STRUCTURES. THE CONTRACTOR SHALL REPAIR ANY DAMAGES WITHOUT ADDITIONAL COMPENSATION, RECOMMENDED FOR CONTRACTOR TO PREPARE A VIDEO LOG OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
4. PROTECT ALL STORM SEWER INLETS AND UTILITY ACCESSES FROM SILTATION AND DEBRIS DURING CONSTRUCTION.
5. MAINTAIN EXISTING SANITARY FLOW AT ALL TIMES. COST ASSOCIATED WITH THIS WORK ARE INCIDENTAL TO THE PROJECT.
6. ALL REMOVAL AND DISPOSAL OF ABANDONED UTILITY LINES INCLUDING GAS MAINS, WATER MAINS, TELEPHONE CONDUITS, SERVICE LINES, ETC., REQUIRED TO COMPLETE THE WORK SHALL BE INCIDENTAL TO THIS PROJECT.
7. DELIVER DOOR HANGERS TO PROPERTIES AS NEEDED. DOOR HANGERS WILL BE PROVIDED BY THE CITY OF CLINTON.
8. PROVIDE A REASONABLY ACCESSIBLE ROUTE FOR EMERGENCY VEHICLES DURING CONSTRUCTION. SUBMIT ACCESSIBLE ROUTE AND COORDINATE WITH THE CITY OF CLINTON PRIOR TO EACH STAGE OF CONSTRUCTION.
9. ALL HOLES RESULTING FROM OPERATIONS OF THE CONTRACTOR, INCLUDING REMOVAL OF FENCE POSTS AND SIGNAL EQUIPMENT, SHALL BE FILLED AND CONSOLIDATED TO FINISHED GRADE TO PREVENT FUTURE SETTLEMENT. THE VOIDS SHALL BE FILLED AS SOON AS PRACTICAL - PREFERABLY THE DAY CREATED AND NOT LATER THAN THE FOLLOWING DAY. ANY PORTION OF THE RIGHT OF WAY OR PROJECT LIMITS DISTURBED BY ANY SUCH OPERATIONS SHALL BE RESTORED TO AN ACCEPTABLE CONDITION. THESE OPERATIONS SHALL BE CONSIDERED INCIDENTAL TO THIS PROJECT.
10. REGRADE DRIVEWAYS AS SHOWN ON THE CROSS-SECTIONS. SIDESLOPES ALONG DRIVES SHALL BE GRADED TO CONFORM TO THE BACKSLOPE PARALLELING THE STREET DEPENDING ON WHAT IS SPECIFIED FOR THE PROPERTY. A SMOOTH, ROUNDED TRANSITION SHALL BE MADE WHERE THE BACKSLOPE AND SIDESLOPES MEET.
11. UNLESS OTHERWISE NOTED ON THE PLANS, ALL PARKING AREAS, BACKSLOPES, AND EASEMENT AREAS DISTURBED BY CONSTRUCTION SHALL BE SHAPED TO FINISHED GRADE AND SODDED. PAYMENT SHALL BE FOR THOSE DISTURBED AREAS WITHIN THE GRADING LIMITS OR EASEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOT DISTURB DESIRABLE GRASS AREAS AND DESIRABLE TREES OUTSIDE THE CONSTRUCTION LIMITS.
12. UNLESS OTHERWISE APPROVED BY THE ENGINEER, ORGANIZE WEEKLY CONSTRUCTION MEETINGS DURING THE DURATION OF THE PROJECT. THIS INCLUDES NOTIFYING SUBCONTRACTORS AND UTILITY COMPANIES AS NECESSARY.
13. STRUCTURES BUILT ON PARCEL #35 ARE CONSIDERED TO HAVE HISTORICAL SIGNIFICANCE AND SHALL BE PROTECTED BY ALL MEANS NECESSARY. IT IS REQUIRED THAT THE CONTRACTOR COORDINATE WITH THE CITY OF CLINTON AND THE PROPERTY OWNER TO PERFORM A VIDEO LOG OF THE EXISTING CONDITIONS OF THE BUILDINGS, BASEMENT WALLS, AND THEIR FOUNDATIONS PRIOR TO CONSTRUCTION. VIDEO LOG SHALL BE SUBMITTED IN DIGITAL FORM TO THE CITY OF CLINTON PRIOR TO CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE "VIBRATION MONITORING" BID ITEM.

RIGHT OF WAY LEGEND

- ▲ Proposed Right of Way
- △ Existing Right of Way
- Existing and Proposed Right of Way
- Easement and Existing Right of Way
- ■ Borrow
- Easement (Temporary)
- Easement
- Excess
- Property Line
- A/C Access Control

CONVENTIONAL SIGNS

- Station / Reference Point — Survey Line
- Section Corner
- Proposed Profile Grade
- Railroad
- Existing / Proposed — Field Tile
- Existing / Proposed — Culverts
- Stream

TABULATION OF UTILITIES

102-13
02-23-93

(ASE) ALLIANT ENERGY - IPL
CONTACT NAME: JOHN MOOTZ
CONTACT PHONE: 563-244-9620
CONTACT E-MAIL: JOHNMOOTZ@ALLIANTENERGY.COM

(CTN) CLINTON, CITY OF
CONTACT NAME: JASON CRAFT
CONTACT PHONE: 563-244-3360
CONTACT E-MAIL: JASONCRAFT@CI.CLINTON.IA.US

(IWC) IOWA AMERICAN WATER COMPANY (CLINTON)
CONTACT NAME: GERRY FRENDENBERG
CONTACT PHONE: 563-242-0433
CONTACT E-MAIL: M.FRENDENBERG@AMWATER.COM

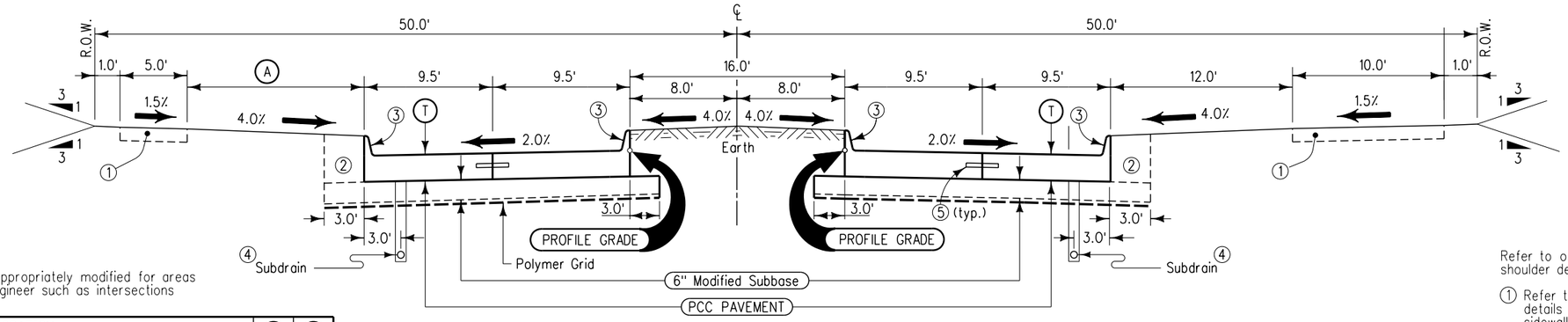
(T14) MEDIACOM BROADBAND, L.L.C.
CONTACT NAME: LARRY LEONARD
CONTACT PHONE: 563-559-0348
CONTACT E-MAIL: LLEONARD@MEDIACOMCC.COM

CENTURYLINK
CONTACT NAME: TODD HOSTE
CONTACT PHONE: 563-355-1893
CONTACT E-MAIL: TODD.HOSTE@CENTURYLINK.COM

(SYMBOLS ARE TYPICAL ONLY, REFER TO PLANS FOR SPECIFIC INFORMATION)

UTILITY NOTES, GENERAL NOTES, LEGEND AND SYMBOL INFORMATION SHEET

3207
MODIFIED



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

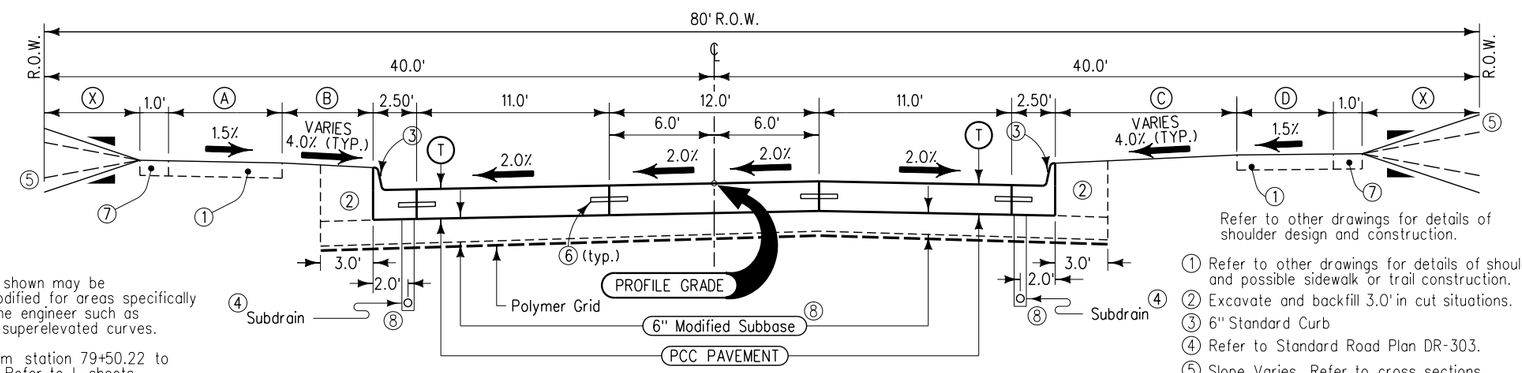
LOCATION			(T)	(A)
ROAD IDENTIFICATION	STATION TO STATION		Inches	Feet
19TH AVENUE N.	69+07.14	78+09.82	8	17.0
19TH AVENUE N.	78+09.82	79+50.22	8	Var

TYPICAL CROSS SECTION
2 LANE BOULEVARD
PCC PAVEMENT WITH CURBS

Refer to other drawings for details of shoulder design and construction.

1. Refer to other drawings for details of shoulder and possible sidewalk or trail construction.
2. Excavate and backfill 3.0' in cut situations.
3. 6" Standard Curb
4. Refer to Standard Road Plan DR-303.
5. L-2 Joint.

URBAN-1



Notes:
1. Normal sections shown may be appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves.
2. Lane widths from station 79+50.22 to 83+04.40 vary. Refer to L sheets for dimensions.

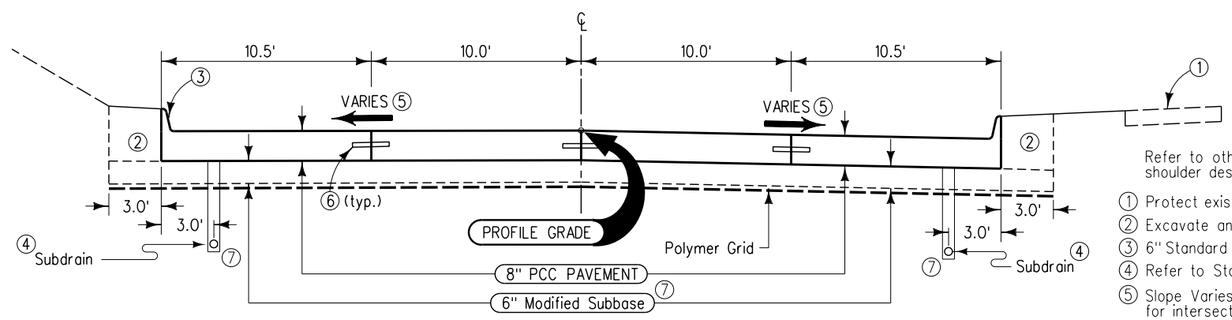
LOCATION			(T)	(A)	(B)	(C)	(D)	(X)
ROAD IDENTIFICATION	STATION TO STATION		Inches	Feet	Feet	Feet	Feet	Feet
19TH AVENUE N.	83+04.40	88+98.46	8	5	5-8	5-12	8-10	VAR.
19TH AVENUE N.	88+98.46	104+75.28	8	8	5	5-8	5	VAR.

TYPICAL CROSS SECTION
39' B-B URBAN SECTION
PCC PAVEMENT WITH CURBS

Refer to other drawings for details of shoulder design and construction.

1. Refer to other drawings for details of shoulder and possible sidewalk or trail construction.
2. Excavate and backfill 3.0' in cut situations.
3. 6" Standard Curb
4. Refer to Standard Road Plan DR-303.
5. Slope Varies. Refer to cross sections for detail. Max Slope is 3:1.
6. L-2 Joint
7. Sidewalk is 1.0' wider within Retaining Wall areas.
8. No modified subbase or subdrain shall be constructed from sta. 103+25 to EOP. Use 6" Special backfill material in lieu of modified subbase.

3RD

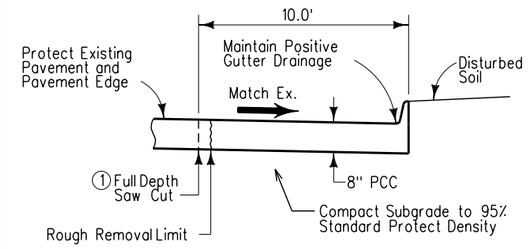


Notes:
Normal sections shown may be appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves.

TYPICAL CROSS SECTION
3RD STREET RECONSTRUCTION 41' B-B
PCC PAVEMENT WITH CURBS

Refer to other drawings for details of shoulder design and construction.

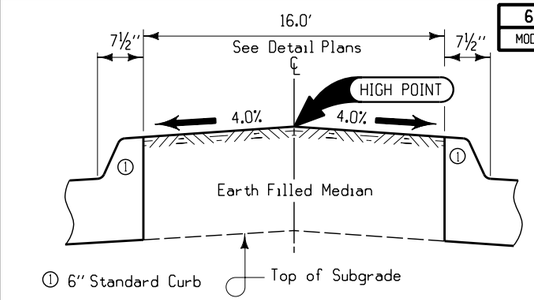
1. Protect existing sidewalk.
2. Excavate and backfill 3.0' in cut situations.
3. 6" Standard Curb
4. Refer to Standard Road Plan DR-303.
5. Slope Varies. Refer to L Sheets for intersection details.
6. L-2 Joint
7. No modified subbase or subdrain shall be constructed from sta. 300+00 to 301+67.52. Use 6" Special backfill material in lieu of modified subbase.



① Perform full depth cut after storm sewer installation. Construct BT-3 Joint.

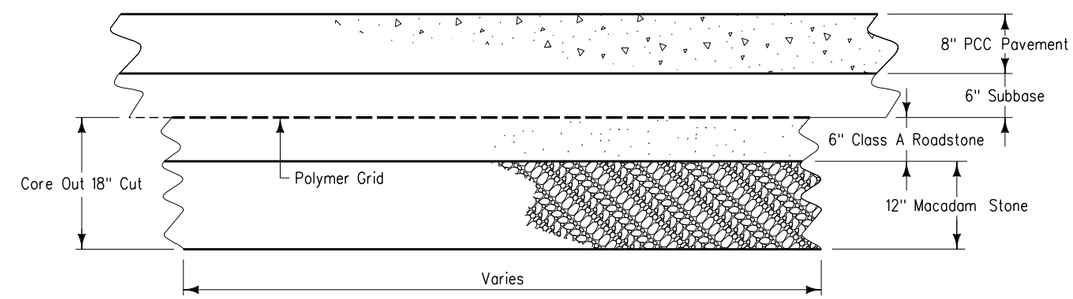
PERSHING BLVD. PAVEMENT REPLACEMENT

6135
MODIFIED



RAISED EARTH MEDIAN WITH STANDARD CURB

Note:
This section is typical only, and may be appropriately modified in areas specifically designated by the engineer. Material for filling median and the necessary finishing of the median surface are included in the appropriate items of "Estimate of Quantities".



Note:
This section is typical only, and may be appropriately modified in areas specifically designated by the Engineer.

SUBGRADE STABILIZATION TYPICAL

ESTIMATED PROJECT QUANTITIES
(UP TO A 5 DIVISION PROJECT)

Division 1: STP-U-1415(625)--70-23 (Participating)
Division 2: 3rd Street and Pershing Boulevard (Non-Participating)

Item No.	Item Code	Item	Unit	Quantities										
				Estimated						As Built				
				Division 1	Division 2	Division 3	Division 4	Division 5	Total	Division 1	Division 2	Division 3	Division 4	Division 5
1	2101-0850001	CLEARING AND GRUBBING	ACRE	4.6					4.6					
2	2102-0425070	SPECIAL BACKFILL	TON	1002	408				1410					
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	56159	813				56972					
4	2102-2710080	EXCAVATION, CLASS 10, UNSUITABLE OR UNSTABLE MATERIAL	CY	600					600					
5	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY	1050					1050					
6	2105-8425015	TOPSOIL, STRIP SALVAGE AND SPREAD	CY	7634	83				7717					
7	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	21704	3046				24750					
8	2115-0100000	MODIFIED SUBBASE	CY	3002	378				3380					
9	2123-7450020	SHOULDER FINISHING, EARTH	STA	78.9	15				93.9					
10	2213-7100400	RELOCATION OF MAILBOXES	EACH	15					15					
11	2301-1033080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS	SY	17331	3260				20591					
		3 DURABILITY, 8 IN.												
12	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	0.85	0.15				1					
13	2315-8275055	SURFACING, DRIVEWAY	TON	700					700					
14	2401-6745635	REMOVAL OF EXISTING HANDRAIL	LS	1					1					
15	2401-6750001	REMOVALS, AS PER PLAN	LS	1					1					
16	2402-0425030	GRANULAR BACKFILL	CY	1028					1028					
17	2414-6446100	ALUMINUM PEDESTRIAN HAND RAILING	LF	220					220					
18	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	1					1					
19	2430-0000100	MODULAR BLOCK RETAINING WALL	SF	50					50					
20	2431-0000100	SEGMENTAL BLOCK RETAINING WALL	SF	10987					10987					
21	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.	EACH	3					3					
22	2435-0130160	MANHOLE, SANITARY SEWER, SW-301, 60 IN.	EACH	4					4					
23	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	2	1				3					
24	2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN.	EACH	1	1				2					
25	2435-0250100	INTAKE, SW-501	EACH	1					1					
26	2435-0250700	INTAKE, SW-507	EACH	8	1				9					
27	2435-0250900	INTAKE, SW-509	EACH	18	1				19					
28	2435-0251224	INTAKE, SW-512, 24"	EACH	2					2					
29	2435-0251230	INTAKE, SW-512, 30"	EACH	2					2					
30	2435-0254100	INTAKE, SW-541	EACH	1	3				4					
31	2435-0254200	INTAKE EXTENSION UNIT, SW-542	EACH		1				1					
32	2435-0254500	INTAKE, SW-545	EACH	3					3					
33	2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH	2					2					
34	2435-0700010	CONNECTION TO EXISTING MANHOLE	EACH	5					5					
35	2501-8400172	TEMPORARY SHORING	LS	1					1					
36	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	7032	836				7868					
37	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	58	5				63					
38	2503-0112015	STORM SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 15IN.	LF		396				396					
39	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	2727	86				2813					
		2000D (CLASS III), 15 IN.												
40	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	470					470					
		2000D (CLASS III), 18 IN.												
41	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	216					216					
		2000D (CLASS III), 24 IN.												
42	2503-0116330	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D, LOW CLEARANCE CONCRETE	LF		438				438					
		PIPE, EQUIVALENT DIAMETER 30 IN.												
43	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	98					98					
44	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN.	LF	125					125					
		DIA.												
45	2504-0114008	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC) 8	LF	623					623					
		IN.												
46	2504-0200204	SANITARY SEWER SERVICE STUB, DUCTILE IRON, 4 IN.	LF	40					40					
47	2504-0200404	SANITARY SEWER SERVICE STUB, POLYVINYL CHLORIDE PIPE (PVC), 4 IN.	LF	175					175					
48	2504-0240236	SANITARY SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA	LF	345					345					
49	2505-4008300	STEEL BEAM GUARDRAIL	LF	170					170					
50	2507-3250005	ENGINEERING FABRIC	SY	54					54					
51	2507-6800061	REVETMENT, CLASS E	TON	48					48					
52	2510-6745850	REMOVAL OF PAVEMENT	SY	10316	3254				13570					
53	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	9	2				11					
54	2511-0302500	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 5 IN.	SY	3428					3428					
55	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	STA	33.8					33.8					
56	2511-6745900	REMOVAL OF SIDEWALK	SY	1383	166				1549					
57	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	1803	211				2014					
58	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	118					118					
59	2511-7528101	DETECTABLE WARNINGS	SF	392					392					
60	2515-2475006	DRIVEWAY, P. C. CONCRETE, 6 IN.	SY	1825	77				1902					
61	2515-2475007	DRIVEWAY, P. C. CONCRETE, 7 IN.	SY	1083					1083					
62	2515-6745106	REMOVAL OF PAVED DRIVEWAY	SY	2052					2052					
63	2518-6745880	REMOVAL OF ROAD CLOSURE BARRICADE	EACH	2					2					
64	2518-6891820	PERMANENT ROAD CLOSURE, URBAN, SI-182	EACH	3					3					
65	2518-6910000	SAFETY CLOSURE	EACH	12					12					
66	2519-1001000	FENCE, CHAIN LINK, VINYL COATED	LF	1281					1281					
67	2519-1002048	FENCE, CHAIN LINK, 48 IN. HEIGHT	LF	20					20					
68	2519-4200120	REMOVAL OF FENCE, CHAIN LINK	LF	20					20					
69	2519-4200140	REMOVAL OF FENCE, FIELD	LF	143					143					
70	2519-4200190	REMOVAL OF FENCE, WOOD	LF	114					114					
71	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN	EACH	3					3					
72	2524-6765110	REMOVAL OF TYPE A SIGN	EACH	28					28					
73	2524-9275100	WOOD POSTS FOR TYPE A OR B SIGNS, 4 IN. X 4 IN.	LF	476					476					

ESTIMATED PROJECT QUANTITIES
(UP TO A 5 DIVISION PROJECT)

Division 1: STP-U-1415(625)--70-23 (Participating)
Division 2: 3rd Street and Pershing Boulevard (Non-Participating)

Item No.	Item Code	Item	Unit	Quantities										
				Estimated						As Built				
				Division 1	Division 2	Division 3	Division 4	Division 5	Total	Division 1	Division 2	Division 3	Division 4	Division 5
74	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF	169					169					
75	2524-9325150	INSTALL TYPE A SIGN	EACH	34					34					
76	2525-0000100	TRAFFIC SIGNALIZATION	LS	1					1					
77	2526-8285000	CONSTRUCTION SURVEY	LS	0.9	0.1				1					
78	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE	STA	64.74	22.77				87.51					
79	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE	EACH	22					22					
80	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA	64.74	22.77				87.51					
81	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	22					22					
82	2528-8445110	TRAFFIC CONTROL	LS	0.9	0.1				1					
83	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	28					28					
84	2533-4980005	MOBILIZATION	LS	1					1					
85	2538-6970000	SALVAGE, REMOVAL, AND DISPOSAL OF OBSTRUCTIONS ON PARCEL NO. 17	LS	1					1					
86	2538-6970000	SALVAGE, REMOVAL, AND DISPOSAL OF OBSTRUCTIONS ON PARCEL NO. 35	LS	1					1					
87	2552-0000140	ROCK EXCAVATION	CY	778	912				1690					
88	2552-0000300	TRENCH COMPACTION TESTING	LS	0.7	0.3				1					
89	2599-9999005	INTERNAL DROP CONNECTION, SANITARY SEWER	EACH	5					5					
90	2599-9999005	SUBDRAIN CLEANOUT	EACH	4	4				8					
91	2599-9999009	STORM SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 8 IN.	LF	36					36					
92	2599-9999009	STORM SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON PIPE (DIP), 12 IN.	LF	67					67					
93	2599-9999009	SANITARY SEWER GRAVITY MAIN, TRENCHED, C900 DR25, POLYVINYL CHLORIDE	LF	679					679					
		PIPE (PVC) 8 IN.							0					
94	2599-9999010	GARBAGE AND RECYCLING COLLECTION	LS	0.8	0.2				1					
95	2599-9999010	DRIVEWAY LIGHT REMOVE, SALVAGE, AND REINSTALL	LS	1					1					
96	2599-9999010	VIBRATION MONITORING TO PROTECT HISTORIC STRUCTURES	LS	1					1					
97	2599-9999014	STEPS	SF	395					395					
98	2599-9999020	SUBGRADE STABILIZATION MATERIAL, CLASS A ROADSTONE	TON	400					400					
99	2599-9999020	SUBGRADE STABILIZATION MATERIAL, MACADAM STONE	TON	700					700					
100	2601-2634100	MULCHING	ACRE	11.1					11.1					
101	2601-2634150	MULCHING, WOOD CELLULOSE FIBER	ACRE	2.6					2.6					
102	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	2.6					2.6					
103	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	859					859					
104	2601-2639010	SODDING	SQ	758	78				836					
105	2601-2640350	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT	SQ	60					60					
106	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	11.1					11.1					
107	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	MGAL	621	64				685					
108	2601-2643300	MOBILIZATION FOR WATERING	EACH	11					11					
109	2602-0000020	SILT FENCE	LF	1997					1997					
110	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	1997					1997					
111	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	1049					1049					
112	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	1000	275				1275					
113	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	1000	275				1275					
114	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	10					10					
115	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1					1					

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ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	2101-0850001	CLEARING AND GRUBBING
		Refer to D & R Sheets for tree removals. Clearing and grubbing locations shall be marked out and approved by the City prior to beginning of clearing operations. Take care to protect all trees and other plant material to remain. This item is to be used for general clearing areas as noted in the plans. All trees to be felled a minimum of 48 inches from ground prior to March 31, 2016. Grubbing work can be completed after April 1, 2016.
2	2102-0425070	SPECIAL BACKFILL
		Place under proposed 8 inch PCC pavement along 19th Avenue from STA 103+25.00 to EOP and along all side streets except for south leg of 3rd Street. Refer to typical sections on B Sheets. Thickness on all side streets shall be 6 inches.
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW
		Quantity includes 53,372 CY adjusted roadway cut, 3,600 CY retaining wall cut, and 27,544 CY adjusted fill+30% shrink for a net waste of 29,428 CY. Refer to Tab. 107-20, Sheet T.1 & 2 for information. Item includes protection of features as noted in the Plans. There will be no additional compensation for overhaul of excavated materials. This item includes removal and salvaging of existing signage and protection of trees per plan details on U Sheets.
4	2102-2710080	EXCAVATION, CLASS 10, UNSUITABLE OR UNSTABLE MATERIAL
		Quantity estimated at 600 CY. Item to be used if poor soils are encountered during construction. Contact City of Clinton and Engineer for approval of this item. There will be no additional compensation for overhaul of excavated materials.
5	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS
		Quantity is estimated at 1,050 CY. The general area of Class 12 excavation is estimated between STA 96+25 and STA 99+50. Contact City of Clinton and Engineer immediately when encountering material that meets Class 12 excavation per Specification 2102.02.
6	2105-8425015	TOPSOIL, STRIP SALVAGE AND SPREAD
		Quantity is based on 8 inch cut depth over all vegetative disturbed areas. Topsoil placement shall be a uniform 6 inches over all seeded/sodded areas. Quantity includes; 7,717 CY of strip and 4,702 CY of placement +30% shrink for a net waste of 3,015 CY. Excess topsoil material may be placed on the foreslopes and backslopes within the project limits, as approved by the Engineer. There will be no additional compensation for overhaul of excess materials.
7	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID
		This item to be used under all pavement receiving modified subbase or special backfill as subbase structure. Material shall be "bi-axial" type and meet requirements noted in the Specifications and I.M. 496.01.
8	2115-0100000	MODIFIED SUBBASE
		Place under proposed 8 inch PCC pavement along 19th Avenue from STA 69+07.14 to STA 103+25.00 and on 3rd St. south of 19th Avenue. Refer to typical sections on B Sheets.
9	2123-7450020	SHOULDER FINISHING, EARTH
		Includes backfill and finish grading behind all curbs.
10	2213-7100400	RELOCATION OF MAILBOXES
		Item includes removing, salvaging, and maintaining temporary mailboxes during construction. After project is completed, reinstall mailboxes 42-inches above driving surface. Locate the face of the mailbox at 4-inches behind the back of curb. Contact the U.S. Postal Service to ascertain its requirements for maintenance of postal service to residents and businesses with the project area. Place and maintain mailboxes at temporary locations as designated by the postmaster. Reinstalled mailboxes to be approved by the postmaster following construction. Not less than 48 hours prior to removing any mailbox, notify each affected property owner in writing notifying them of the move and the location of the temporary mailbox. Temporary mailboxes shall be in a place so postal service is maintained at all times. Any permanent mailbox that must be removed shall be stored on the property to which it belongs and at a sufficient distance from the work area to ensure it will not be damaged during construction. Provide an accessible route to the temporary mailbox location for each property. This item includes all materials, labor, equipment, and coordination to maintain postal service to property owners and properly reinstall mailboxes.
11	2301-1033080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.
		Iowa Department of Transportation Standard Specification Section 2316 Schedule B Smoothness shall apply to all mainline paving. Microtexture shall be applied to all finished concrete surfacing with a burlap drag finish. Certified plant inspection is required for this item.
13	2315-8275055	SURFACING, DRIVEWAY
		This item shall be used for temporary access for local property owners as required during construction. Use asphalt millings or Class A crushed stone. Coordinate with Engineer prior to use of this item.
14	2401-6745635	REMOVAL OF EXISTING HANDRAIL
		This item includes removal of the existing steel split rail hand railing at the SW and NW corner of 19th Avenue and 3rd Street, as shown in the R Sheets. This item includes footing removal, if required.
15	2401-6750001	REMOVALS, AS PER PLAN
		This item includes removal of the following items as noted on the R Sheets: retaining wall at parcel #15, retaining wall at parcel #25, retaining wall at parcel #30, planter at parcel #34, retaining wall at parcel#36, and boulder at STA 99+20. Included in retaining wall removals is a clean saw cut for P.C. wall materials.
16	2402-0425030	GRANULAR BACKFILL
		This item includes granular backfill material related to retaining wall construction. Refer to U Sheets for retaining wall details.
17	2414-6446100	ALUMINUM PEDESTRIAN HAND RAILING
		This item includes hand railing for residential step locations and at locations noted in the plans.

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ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		Installation of hand railing shall be per details shown on U Sheets. Refer to U Sheets for additional requirements on pedestrian hand railings.
18	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.
		Refer to Tabulations on Sheet M.1 and plan and profile on the M Sheets. Tie last three (3) section of pipe to apron with tie rods. Construct an apron footing as shown on sheet U.1. Footing and apron guards are considered incidental to this item.
19	2430-0000100	MODULAR BLOCK RETAINING WALL
		Refer to D Sheets for retaining wall locations and typical detail on the U Sheets. Shop drawings with color samples shall be submitted and approved by the City prior to ordering of block. Contractor shall provide a sample block on site for review and approval of color by City and Engineer. Install subdrain outlet at the downstream end of the retaining wall. Subdrain outlets shall consist of a CMP outlet pipe with a rodent guard meeting Iowa DOT Specifications, IM 443.01. Subdrain and subdrain outlet installation shall be considered incidental to this item.
20	2431-0000100	SEGMENTAL BLOCK RETAINING WALL
		Refer to D & E Sheets for general retaining wall locations. Refer to U Sheets for retaining wall details and layout information. Shop drawings with color samples must be submitted and approved by the City prior to ordering of block. Retaining walls are composed of large retaining wall block (48"L x 16"W x 24" to 84"D). Block shall meet Iowa DOT specifications for wet cast block per I.M. 445.05 and texture to closely resemble "natural limestone". Provide a sample block on site for review and approval of color by City.
21	2435-0130148	MANHOLE, SANITARY SEWER, SW-301, 48 IN.
22	2435-0130160	MANHOLE, SANITARY SEWER, SW-301, 60 IN.
		Refer to sheets U.4-U.5 for manhole locations. Type A castings shall be used outside pavements. Type B casting shall be used for structures under pavements. Chimney seals shall be considered incidental to this item.
23	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.
24	2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN.
		Refer to M Sheets for manhole locations.
25	2435-0250100	INTAKE, SW-501
26	2435-0250700	INTAKE, SW-507
27	2435-0250900	INTAKE, SW-509
28	2435-0251224	INTAKE, SW-512, 24"
29	2435-0251230	INTAKE, SW-512, 30"
30	2435-0254100	INTAKE, SW-541
31	2435-0254200	INTAKE EXTENSION UNIT, SW-542
32	2435-0254500	INTAKE, SW-545
		Refer to M Sheets for intake locations. Refer to M.1 for structures that require cast-in-place construction.
33	2435-0600020	MANHOLE ADJUSTMENT, MAJOR
		Refer to Tab 104-10 sheet C.4.
34	2435-0700010	CONNECTION TO EXISTING MANHOLE
		Refer to sheets U.4-U.5 for sanitary sewer connection location.
35	2501-8400172	TEMPORARY SHORING
		Temporary shoring (sheet pile or other) shall be required as necessary to protect structures and prevent the earth behind the temporary construction easements from sloughing in during construction. The Contractor shall submit a temporary shoring plan to the City and Engineer for approval prior to construction. The temporary shoring plan shall be designed and certified by a professional engineer licensed in the State of Iowa. The Contractor shall submit 4 copies of the plans for temporary shoring. The engineer will be allowed 30 calendar days to review the temporary shoring plan. The Contractor shall not proceed with installation of the temporary shoring without notice to proceed from the Engineer and the City. The temporary shoring submittal shall include at a minimum: Design calculations, soil properties, shoring material properties, shoring plan layout, shoring details. Temporary shoring shall be paid for as lump sum including all costs for designing, furnishing, installing, and removal of shoring. All material used for shoring shall remain the property of the Contractor. Shoring is to be removed only after backfilling has been completed.
36	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.
37	2502-8221303	SUBDRAIN OUTLET, DR-303
		Refer to Tab 104-9 on sheet C.5.
38	2503-0112015	STORM SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 15 IN.
39	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.
40	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN.
41	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.
42	2503-0116330	STORM SEWER GRAVITY MAIN, TRENCHED, 2000D, LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 30 IN.
		Refer to M Sheets for pipe locations and M.1 for tabulation of pipes. All RCP storm sewer shall be installed with O-ring or profile gasketed joints meeting the requirements of Section 4149.03 in the Specifications. Rigid pipe bedding shall comply with R-2 type in Standard Road Plan SW-102. Flexible pipe bedding shall comply with F-3 type in Standard Road Plan SW-103.
43	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.
		Refer to R Sheets for locations. Item includes disposal of material offsite.
44	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA
		Refer to R Sheets for locations. Item includes plugging at location noted in plans. Filling of abandoned main is not required.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
45	2504-0114008	SANITARY SEWER GRAVITY MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC) 8 IN.
46	2504-0200204	SANITARY SEWER SERVICE STUB, DUCTILE IRON, 4 IN.
47	2504-0200404	SANITARY SEWER SERVICE STUB, POLYVINYL CHLORIDE PIPE (PVC), 4 IN.
		Refer to sheets U.4-U.5 for pipe locations. These items include additional work required to maintain service to existing sanitary sewer users during construction of new main and services. Prepare and submit a construction sequence plan to Engineer and City of Clinton for approval prior to construction. Flexible pipe bedding shall comply with F-3 type in Standard Road Plan SW-103. Included in this item is exploratory excavation to locate existing sanitary sewer mains for connection.
48	2504-0240236	SANITARY SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA
		Refer to R Sheets for locations. Approximately 650 LF of 8" pipe will require abandonment with approximately 9 CY of flowable mortar. Assure that all services are relocated prior to abandonment.
49	2505-4008300	STEEL BEAM GUARDRAIL
		Use at hammerhead location at Randall Court, Spence Court, and 7th Street as shown on the D Sheets. Shall maintain 24" of horizontal clearance from edge of pavement. Refer to BA-200 for details.
50	2507-3250005	ENGINEERING FABRIC
		Use under Class E Revetment within the permanent stilling basin. Refer to stilling basin detail on sheet U.1 for location.
51	2507-6800061	REVETMENT, CLASS E
		Refer to stilling basin detail on sheet U.1 for location.
52	2510-6745850	REMOVAL OF PAVEMENT
		Refer to R Sheets for locations and Tab 110-1, Sheet C.6. Estimated existing pavement depth along 19th Avenue and side roads is 8 inches.
53	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES
		Refer to R Sheets for locations and Tab. 110-15, Sheet C.6.
54	2511-0302500	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 5 IN.
		Refer to D and E Sheets for locations and B Sheets for roadway sections. Select pedestrian ramp areas are included in this item. Refer to tabulation on Tab. 113-1, Sheet C.7 for additional information. Certified plant inspection is required for this item. Incidental to this item is additional thickness through driveways.
55	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL
		Refer to D and E Sheets for locations and B Sheets for typical sections. This item shall be used for all Recreational Trail, PCC, 5 in. areas.
56	2511-6745900	REMOVAL OF SIDEWALK
		Refer to R Sheets for locations and Tab. 110-5, Sheet C.6.
57	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.
58	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.
		Refer to D, E, and L Sheets for locations, S Sheets for pedestrian ramp locations, and B Sheets for typical sections. Use 6-inch sidewalk within all curb ramps. Quantity of sidewalk through driveways shall be paid for under Driveway, P.C. Concrete, 6 In. bid item. Use Class C concrete for all sidewalk construction. Certified plant inspection is required for these items.
59	2511-7528101	DETECTABLE WARNINGS
		Refer to D and E Sheets for locations and Tab. 113-1, sheet C.7. Detectable warnings shall be brick red in color.
60	2515-2475006	DRIVEWAY, P. C. CONCRETE, 6 IN.
		Refer to D, E, and L Sheets for locations. Quantity includes sidewalk and trail area within driveways. Use Class C concrete for all driveway construction. Certified plant inspection is required for this item.
61	2515-2475007	DRIVEWAY, P. C. CONCRETE, 7 IN.
		Use this item for construction of driveway and parking lot within parcel #36. Refer to D, E, and L Sheets for locations. Use Class C concrete for all driveway construction. Certified plant inspection is required for this item.
62	2510-6745850	REMOVAL OF PAVEMENT
		Refer to R Sheets for locations and Tab 110-1, Sheet C.6. Estimated existing pavement depth along 19th Avenue and side roads is 8 inches.
63	2518-6745880	REMOVAL OF ROAD CLOSURE BARRICADE
		Refer to R Sheets for removal information.
64	2518-6891820	PERMANENT ROAD CLOSURE, URBAN, SI-182
		Refer to tabulation on Tab. 102-4, Sheet C.4.
65	2518-6910000	SAFETY CLOSURE
		Refer to J Sheets for Traffic Control.
66	2519-1001000	FENCE, CHAIN LINK, VINYL COATED
		Refer to L Sheets for location information. Use this item for integral construction associated with retaining wall construction. Install fencing along top of segmental block retaining walls when the drop off from final grade to top of wall is greater than 24". Fencing into the retaining wall block per manufacturer's recommendation. Fencing height shall be 48". Chain link fabric is to be PVC coated black, per ASTM F668 class 2B.
67	2519-1002048	FENCE, CHAIN LINK, 48 IN. HEIGHT

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ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		This item shall be used for replacement of fencing on Parcel #32 during temporary access construction. Fencing shall meet the existing type, material, and gauge thickness.
68	2519-4200120	REMOVAL OF FENCE, CHAIN LINK
69	2519-4200190	REMOVAL OF FENCE, FIELD
70	2519-4200190	REMOVAL OF FENCE, WOOD
		Refer to R Sheets for locations.
71	2524-6765010	REMOVE AND REINSTALL SIGN AS PER PLAN
		Refer to R Sheets for locations. Item includes all material, equipment, and labor necessary to remove, salvage, relocate, and erect signs to locations shown in the plans. Disposal of waste material to an offsite location (i.e. hardware) is incidental to this item. Signs that are properly removed, salvaged, and reinstalled will be measured for payment. Payment will be made at the contract unit price for each sign.
72	2524-6765110	REMOVAL OF TYPE A SIGN
		Refer to R Sheets for locations. Disposal of waste material (i.e. posts, hardware, brackets, etc.) is incidental to this item. Type A signs that are properly removed and disposed of offsite will be measured for payment. Payment will be made at contract unit price for each sign assembly.
73	2524-9275100	WOOD POSTS FOR TYPE A OR B SIGNS, 4 IN. X 4 IN.
74	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM
		Refer to J Sheets for proposed signage type and locations.
75	2524-9325150	INSTALL TYPE A SIGN
		Refer to J Sheets for proposed signage type and locations. Item includes furnishing, fabricating, and erecting the complete sign assembly including posts, brackets, hardware, etc. Type A signs that are properly installed at locations shown in the plans will be measured for payment. Payment will be made at the contract unit price for each assembly.
76	2525-0000100	TRAFFIC SIGNALIZATION
		Refer to N sheets for Traffic Signalization. Item includes all material, equipment, and labor necessary to install traffic signals at the intersection of 19th Avenue and 3rd Street. Also includes all interconnect conduit, cable, and miscellaneous items.
78	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE
79	2527-9263143	PAINTED SYMBOLS AND LEGENDS, DURABLE
80	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS
81	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS
		Refer to Sheets J.8-J.10 for pavement marking locations, details, and Tabs. Durable pavement markings and symbols and legends shall be epoxy based paint. Pavement cure shall be completely removed from pavement surface prior to application of pavement markings and symbols and legends.
82	2528-8445110	TRAFFIC CONTROL
		Refer to J Sheets for Traffic Control requirements. All vertical panels shall maintain 20' spacing on longitudinal runs. Includes signage for pedestrian pathway closures during construction.
83	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)
		Refer to J Sheets for closure and staging information. Shall be used seven (7) days prior to closure of 19th Avenue between 8th Street and 3rd Street as well as 3rd Street between 18th Avenue and 20th Avenue.
85	2538-6970000	SALVAGE, REMOVAL, AND DISPOSAL OF OBSTRUCTIONS ON PARCEL NO. 17
86	2538-6970000	SALVAGE, REMOVAL, AND DISPOSAL OF OBSTRUCTIONS ON PARCEL NO. 35
		These items include complete removal and disposal of existing structures as noted in the R sheets. Refer to Section 2538 of the Specifications for additional requirements.
87	2552-0000140	ROCK EXCAVATION
		This item is estimated based on proposed underground utility work from approximately STA 97+50 to STA 99+50, STA 101+50 to STA 103+30, STA 295+25 to STA 299+50, STA 299+75 to 301+40, STA 398+60 to STA 402+90, Parcel 35, and traffic signal pole footings.
88	2552-0000300	TRENCH COMPACTION TESTING
		Use for all storm sewer and sanitary sewer installation.
89	2599-9999005	INTERNAL DROP CONNECTION, SANITARY SEWER
		Refer to U.4 and U.5 for locations on internal drop connections. Refer to detail on sheet U.3. Item includes all material, labor, and equipment required to install the internal drop connections according to the detail in the plans. Internal drop connections that are installed per the plans will be counted and paid for per each.
90	2599-9999005	SUBDRAIN CLEANOUT
		This item includes construction of a subdrain cleanout on locations noted on tabulation 104-9 on the C Sheets. Refer to Sheet U.2 for detail of cleanout. Item includes all excavation, material, labor, and equipment required to install the cleanouts according to the detail in the plans. Cleanouts that are installed per the plans will be counted and paid for per each.
91	2599-9999009	STORM SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON, 8 IN.
		This item includes all excavation, backfill, materials, labor, and equipment required to install ductile iron pipe at locations shown in the plans. This item is used to connect the existing HPDE pipe under the retaining wall at STA 99+00 LT. Item includes all fittings, couplings, and hardware necessary to construct the vertical drop as shown in the M Sheets. Material requirements shall meet those of Section 2504 in the Standard Specifications. Install pipe in accordance with Section 2503 in the Standard Specifications. Item will be measured per linear foot of pipe properly installed per the plans. Payment will be the contract unit price per linear foot.

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
92	2599-9999009	STORM SEWER GRAVITY MAIN, TRENCHED, DUCTILE IRON, 12 IN.
		This item includes all excavation, backfill, materials, labor, and equipment required to install ductile iron pipe at locations shown in the plans. This item is used to connect under the retaining wall structure at STA 97+50. Item includes all fittings, couplings, and hardware necessary to install the piping Material requirements shall meet those of Section 2504 in the Standard Specifications. Install pipe in accordance with Section 2503 in the Standard Specifications. Item will be measured per linear foot of pipe properly installed per the plans. Payment will be the contract unit price per linear foot.
93	2599-9999009	SANITARY SEWER GRAVITY MAIN, TRENCHED, C900 DR25, POLYVINYL CHLORIDE PIPE (PVC) 8 IN.
		This item includes all excavation, backfill, materials, labor, and equipment required to install pipe at locations shown in the plans. This item is used for sanitary sewer main installation from STA 81+00 to STA 86+25. Item includes all fittings, couplings, and hardware necessary to install the piping. Material requirements shall meet those of Section 2504 in the Standard Specifications. Install pipe in accordance with Section 2504 in the Standard Specifications. Flexible pipe bedding shall comply with F-3 type in Standard Road Plan SW-103. Item will be measured per linear foot of pipe properly installed per the plans. Payment will be the contract unit price per linear foot.
94	2599-9999010	GARBAGE AND RECYCLING COLLECTION
		Item includes maintaining garbage and recycling service to residents within the project limits along 19th Avenue and 3rd Street throughout the duration of the project. Item includes all materials, labor, and equipment required to haul garbage and recycling containers from the residents homes to a local pick-up point and back to residents home following collection. Contractor shall coordinate a local pick-up point with the garbage and recycling services. A removable sticker shall be placed on each container to ensure that the containers are returned to the appropriate residence. Contractor shall coordinate with City of Clinton, engineer, property owners, and garbage and recycling services. Item measurement shall be on a lump sum basis for completion of this item as described above. Payment will be based on the contract lump sum price.
95	2599-9999010	DRIVEWAY LIGHT REMOVE, SALVAGE, AND REINSTALL
		Item includes all materials, labor, and equipment required to remove, salvage, protect, and reinstall the driveway lighting for Parcel #35. Contractor is responsible for any damage to the pole, bulbs, globes, etc. Includes removal and replacement of underground wiring as needed to facilitate construction activities. Light pole shall be placed on underground footing support equal to existing conditions. Coordinate with City, Engineer, and property owner prior to reinstallation for final location. Lighting work shall be measured on a lump sum basis. Payment for work will be at the contract unit price for a complete and operational light.
96	2599-9999010	VIBRATION MONITORING TO PROTECT HISTORIC STRUCTURES
		Refer to Special Provisions for Vibration Monitoring to Protect Historic Structures.
97	2599-9999014	STEPS
		This item includes construction of residential steps per details on Sheet U.2. Item includes all reinforcing per step details. Steps that are constructed per plan details will be measured and paid for at the contract unit price per square foot. Measurement will be made from top expansion joint to bottom expansion joint.
98	2599-9999020	SUBGRADE STABILIZATION, CLASS A ROADSTONE
		Quantity is estimated only and should be used if poor soils are encountered during construction. Contact Engineer for approval of use of this item. Refer to detail on B Sheets for typical over-excavation sections. Field modifications on over-excavation section made be made as approved and directed by the Engineer. Item includes all materials, labor, and equipment required to furnish, place, grade, and compact material for areas as directed by the Engineer. Excavation of unsuitable materials is paid by Item #4 "Excavation, Class 10, Unsuitable or Unstable Material". Material to be used shall be Class A Roadstone meeting requirements of Iowa DOT Standard Specification 4120.04, Gradation #11. Placement of material shall be in accordance with Section 2210.03 D. Item will be measured by weight (Tons) based upon certified truck tickets collected at time of delivery. Payment will be made at the contract unit price per ton of material placed and compacted.
99	2599-9999020	SUBGRADE STABILIZATION, MACADAM STONE
		Quantity is estimated only and should be used if poor soils are encountered during construction. Contact Engineer for approval of use of this item. Refer to detail on B Sheets for typical over-excavation sections. Field modifications on over-excavation section made be made as approved and directed by the Engineer. Item includes all materials, labor, and equipment required to furnish, place, grade, and compact material for areas as directed by the Engineer. Excavation of unsuitable materials is paid by Item #4 "Excavation, Class 10, Unsuitable or Unstable Material". Material to be used shall be Macadam Stone meeting requirements of Iowa DOT Standard Specification 4122.02, Gradation #13. Placement of material shall be in accordance with Section 2210.03 C. Item will be measured by weight (Tons) based upon certified truck tickets collected at time of delivery. Payment will be made at the contract unit price per ton of material placed and compacted.
100	2601-2634100	MULCHING
101	2601-2634150	MULCHING, WOOD CELLULOSE FIBER
102	2601-2636044	SEEDING AND FERTILIZING (URBAN)
		Seeding, fertilizing, and mulching are intended for use on all final restoration areas within the boulevard section between STA 69+07.14 to STA 79+50.00 and within the temporary access for parcel #32 and #35. Mulching (2601-2634100) is intended to be used for any temporary seeding that is needed to comply with NPDES permit. Use mulching with wood cellulose fiber (2601-2634150) for permanent seeding areas as noted above.
103	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT
		Refer to Tab. 100-22, Sheet C.4 for location information. Coordinate final locations with Engineer in field.
104	2601-2639010	SODDING
		Use Sod for all disturbed areas throughout the project that are not covered by other restoration/ seeding methods. Quantity is based on total disturbed area less the paved areas and areas covered by other restoration methods. Disturbed areas outside of the construction limits noted in the plans shall be sodded, watered, and maintained at the Contractor's expense.
105	2601-2640350	SPECIAL DITCH CONTROL, WOOD EXCELSIOR MAT
		Refer to Tab. 100-22, Sheet C.4 for location information. Coordinate final locations with Engineer in field.

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
106	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)
		This item shall be used for temporary seeding and stabilization as required by the NPDES permit and Stormwater Pollution Prevention Plan. Quantity based on entire disturbed area within project limits.
109	2602-0000020	SILT FENCE
110	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS
111	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS
		Refer to Sheet C.6 for pollution prevention plan and Tab 100-17 erosion control measures.
112	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.
		Refer to Tab. 100-19, Sheet C.4 on filter sock installation. Use this item shall be used to minimize the transport of sediment offsite and for protection of storm sewer intakes. Length of material properly installed per the specification will be measured for payment. Payment will be made at the contract unit price per linear foot.
113	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE
		Refer to Tab.100-19, Sheet C.4 on filter sock installation. Length of material properly removed from project will be measured for payment. Payment will be made at the contract unit price per linear foot.

100-22
08-01-08

SPECIAL DITCH CONTROL AND SLOPE PROTECTION

Location				L	W		
No.	Begin Station	End Station	Side	FT	FT	No. Squares	Remarks
1	69+00.00	73+50.00	LT			90.4	SLOPE PROTECTION, WOOD EXCELSIOR MAT
2	75+00.00	79+00.00	LT			249.9	SLOPE PROTECTION, WOOD EXCELSIOR MAT
3	69+00.00	86+25.00	RT			518.8	SLOPE PROTECTION, WOOD EXCELSIOR MAT
4	73+25.00	78+25.00	RT	500.0	8.0	40.0	DITCH CONTROL, WOOD EXCELSIOR MAT
5	74+25.00	76+00.00	LT	175.0	8.0	14.0	DITCH CONTROL, WOOD EXCELSIOR MAT
6	78+50.00	79+25.00	LT	75.0	8.0	6.0	DITCH CONTROL, WOOD EXCELSIOR MAT
			TOTALS			859.1	SLOPE PROTECTION, WOOD EXCELSIOR MAT
			TOTALS			60.0	DITCH CONTROL, WOOD EXCELSIOR MAT

271-2
08-20-85

DEMOLITION (TREE REMOVAL)

Contractor shall remove only those trees as necessary to facilitate the removal of buildings, debris and materials as directed by the engineer.

271-4
10-18-11

DEMOLITION (BUILDINGS)

PARCEL NOS. 17, 35 (PARTIAL)
Break in the basement walls to a minimum depth of 3 foot below final ground line. Break the floor in such a manner as to permit vertical drainage. Basement wall and floor removal are not required unless proposed grading conflicts with wall and floor elevations.
(THIS NOTE HAS BEEN MODIFIED)

232-3B
10-20-15

EROSION CONTROL (URBAN SEEDING)

Following the completion of work in a disturbed area, place seed, fertilizer, and mulch on the disturbed area as follows:

Use seed mix and fertilizer meeting the requirements of Article 2601.03,C,4 and Section 4169 of the Standard Specifications.

Use mulch meeting the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed and furnishing and applying seed, fertilizer, and mulch is incidental to mobilization and will not be paid for separately.

105-4
10-18-11

STANDARD ROAD PLANS

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

BA-200	10-18-11	Steel Beam Guardrail Components
DR-104	04-21-15	Depth of Cover Tables for Concrete and Corrugated Pipe
DR-121	10-20-15	Connected Pipe Joints
DR-122	04-21-15	Construction of Type "C" Concrete Adaptors for Pipe Culvert Connections
DR-201	04-21-15	Concrete Aprons
DR-213	04-21-15	Pipe Apron Guard
DR-303	10-20-15	Subdrains (Longitudinal)
EC-101	04-21-15	Wood Excelsior Mat for Ditch Protection
EC-103	04-21-15	Wood Excelsior Mat for Slope Protection
EC-201	04-21-15	Silt Fence
EC-204	04-21-15	Perimeter and Slope Sediment Control Devices
MI-102	10-20-15	Chain Link Fence Construction
MI-210	10-20-15	PCC Driveways and Alleys
MI-220	10-20-15	Detectable Warnings and Pedestrian Ramp
PM-110	04-16-13	Line Types
PM-111	04-21-15	Symbols and Legends
PM-550	04-19-11	Two-Lane Roadway with Two-Way Left Turn Lane
PV-101	04-21-15	Joints
PV-102	04-15-14	PCC Curb Details
PV-103	04-19-11	Manhole Boxouts in PCC Pavement
PV-104	04-19-11	Ramped Median Nose
SI-101	04-21-09	Locations - Type 'A' Signs
SI-111	10-20-09	Support Structures - Wood Posts
SI-131	10-18-11	Installation - Type 'A' Signs
SI-173	04-20-10	Object Markers
SI-182	10-18-11	Permanent Road Closure - Urban
SW-101	04-21-09	Trench Bedding and Backfill Zones
SW-102	10-20-15	Rigid Gravity Pipe Trench Bedding
SW-103	10-20-15	Flexible Gravity Pipe Trench Bedding
SW-201	04-21-09	Sanitary Sewer Service Stub
SW-211	10-16-12	Special Pipe Connections for Storm Sewer
SW-301	10-21-14	Circular Sanitary Sewer Manhole
SW-306	04-21-15	Chimney Seals for Sanitary Sewer Manholes
SW-401	04-21-09	Circular Storm Sewer Manhole
SW-501	10-16-12	Single Grate Intake
SW-507	10-21-14	Single Open-Throat Intake, Small Box
SW-508	10-21-14	Single Open-Throat Intake, Large Box
SW-509	10-21-14	Double Open-Throat Curb Intake, Small Box
SW-510	10-21-14	Double Open-Throat Curb Intake, Large Box
SW-512	10-21-14	Circular Area Intake
SW-541	10-16-12	Open-Throat Curb Intake under Pavement
SW-542	10-20-09	Extension Unit for Open-Throat Curb Intake under Pavement
SW-545	10-18-11	Single Open-Throat Curb Intake with Extended Opening
SW-601	04-21-15	Castings for Sanitary Sewer Manholes
SW-602	04-21-15	Castings for Storm Sewer Manholes
SW-604	10-20-09	Castings for Area Intakes
TC-1	04-16-13	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-211	04-17-12	Lane Closure on Low Volume Roadway
TC-251	04-17-12	Temporary Road Closure
TC-252	10-20-15	Routes Closed to Traffic
TC-419	10-15-13	Lane Closure on Undivided Highway
TC-601	10-18-11	Pedestrian Detour
TC-602	10-18-11	Sidewalk Diversion

102-4
10-18-11

LOCATIONS OF ROAD CLOSURE BARRICADES

Refer to SI-181 and SI-182.

Location		W	SI-181	SI-182	Remarks
No.	Station	LF	LF	No.	
1	Randall Court	30.0		1	
2	Spence Court	30.0		1	
3	7th Street	40.0		1	

110-8
08-01-08

REMOVAL OF CONCRETE DRIVES

Location		Area	Remarks
Station	Side	SY	
80+86.00	RT	35.7	DRIVEWAY FOR PARCEL #17
85+55.00	RT	49.4	DRIVEWAY FOR PARCEL #21
89+80.00	RT	90.6	DRIVEWAY FOR PARCEL #27
90+91.00	RT	82.8	DRIVEWAY FOR PARCEL #28
91+00.00	LT	136.1	DRIVEWAY FOR PARCEL #30
94+14.00	LT	81.7	DRIVEWAY FOR PARCEL #34
95+80.00	LT	709.7	UPPER DRIVEWAY AND LOT FOR PARCEL #36
97+45.00	LT	214.7	LOWER DRIVEWAY FOR PARCEL #36
96+50.00	RT	536.0	DRIVEWAY FOR PARCEL #32 AND #35
101+65.00	LT	44.4	DRIVEWAY FOR PARCEL #41
102+10.00	RT	47.2	DRIVEWAY FOR PARCEL #44
104+20.00	LT	23.9	DRIVEWAY FOR PARCEL #48
TOTALS		2052.1	

100-19
10-16-12

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Refer to EC-204

Location			Length of Installation				Remarks
Begin Station	End Station	Side	6 inch Dia	9 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	
71+25.00	71+25.00	RT			30.0		
72+50.00	72+50.00	LT			30.0		
72+50.00	72+50.00	RT			30.0		
74+75.00	74+75.00	LT			25.0		
74+75.00	74+75.00	RT			25.0		
75+95.00	75+95.00	LT			30.0		
75+95.00	75+95.00	RT			30.0		
76+50.00	76+50.00	LT			25.0		
76+50.00	76+50.00	RT			25.0		
78+00.00	78+00.00	LT			30.0		
78+00.00	78+00.00	RT			30.0		
83+50.00	83+50.00	LT			30.0		
83+50.00	83+50.00	RT			30.0		
85+25.00	85+25.00	LT			30.0		
85+25.00	85+25.00	RT			30.0		
87+00.00	87+00.00	RT			30.0		
88+75.00	88+75.00	LT			30.0		
88+75.00	88+75.00	RT			30.0		
90+50.00	90+50.00	RT			25.0		
92+25.00	92+25.00	LT			40.0		
92+25.00	92+25.00	RT			30.0		
96+00.00	96+00.00	LT			40.0		
96+00.00	96+00.00	RT			30.0		
97+50.00	97+50.00	LT			25.0		
97+50.00	97+50.00	RT			25.0		
99+00.00	99+00.00	LT			40.0		
99+00.00	99+00.00	RT			30.0		
101+40.00	101+40.00	LT			25.0		
101+50.00	101+50.00	LT			30.0		
102+50.00	102+50.00	LT			30.0		
102+50.00	102+50.00	RT			30.0		
295+20.00	295+20.00	LT			10.0		
295+20.00	295+20.00	RT			10.0		
398+60.00	398+60.00	LT			10.0		
398+60.00	398+60.00	RT			10.0		
85+25.00	85+25.00	LT			10.0		EXISTING INTAKE ALONG 7TH STREET
86+00.00	86+00.00	LT			10.0		EXISTING INTAKE ALONG 7TH STREET
89+15.00	89+15.00	LT			10.0		EXISTING INTAKE ALONG 6TH STREET
89+45.00	89+45.00	LT			10.0		EXISTING INTAKE ALONG 6TH STREET
92+60.00	92+60.00	LT			10.0		EXISTING INTAKE ALONG 5TH STREET
92+89.00	92+89.00	LT			10.0		EXISTING INTAKE ALONG 5TH STREET
	SUBTOTAL				1020.0		
					1.3		
					1275.0		

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	Saw Cut*	Remarks
				SY	LF	
80+47.00	104+75.00	LT/RT	HMA/PCC	10274.4	348.0	INCLUDES 19TH AVENUE AND ALL SIDE STREETS EXCEPT FOR
						3RD STREET AND PATCH ALONG PERSHING BOULEVARD
91+00.00	91+00.00	LT	PCC	41.1		ALLEY
295+20.00	299+54.00	LT/RT	HMA/PCC	2001.1	41.0	3RD STREET SOUTH OF 19TH AVENUE
299+90.00	301+68.00	LT/RT	HMA/PCC	814.4	41.0	3RD STREET NORTH OF 19TH AVENUE
398+68.00	402+53.00	LT/RT	HMA/PCC	438.7	450.0	STORM SEWER PATCH ON PERSHING BOULEVARD
			TOTALS	13569.8	880.0	

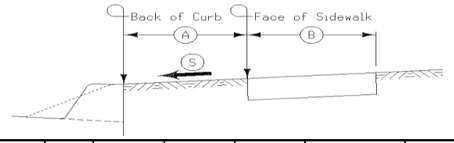
104-10
08-01-08

ADJUSTMENT OF FIXTURES

No.	Location Station	Type of Fixture	Adjustment
1	92+74.00	SANITARY MANHOLE	PROVIDE ADJUSTING RINGS TO ADJUST RIM UP APPROXIMATELY 1.1 FEET.
2	103+13.00	SANITARY MANHOLE	ADJUST EXITING CASTING DOWN APPROXIMATELY 0.3 FEET.

SIDEWALKS

See MI-220 and S Sheets



Road Identification	Station to Station		Side	A	B	S	4" PCC Sidewalk	6" PCC Sidewalk	5" PCC Trail	Detectable Warnings	Remarks
				FT	FT	%	SY	SY	SY	SF	
19TH AVENUE	69+07.14	78+09.82	LT	17.00	5.00	4.00%	504.6				
19TH AVENUE	69+07.14	79+47.74	RT	12.00	10.00	4.00%			1142.6		
19TH AVENUE	78+09.82	80+09.11	LT	8 TO 17	5.00	4.00%	115.6				
19TH AVENUE	79+47.74	85+54.18	RT	5 TO 12	10.00	4.00%			669.2	20	INCLUDES RAMP AT SW CORNER OF 19TH AVE AND 7TH ST
19TH AVENUE	80+28.44	82+07.01	LT	8.00	5.00	4.00%	102.0				
19th AVENUE	82+07.01	82+23.61	LT	8.00	5.00	4.00%		8.3		10	RAMP AT NW CORNER OF 19TH AVE AND 8TH ST
19th AVENUE	82+53.94	82+68.54	LT	8.00	5.00	4.00%		7.2		10	RAMP AT NE CORNER OF 19TH AVE AND 8TH ST
19th AVENUE	82+68.54	83+64.57	LT	8.00	5.00	4.00%	53.3				
19th AVENUE	84+07.61	85+48.62	LT	8.00	5.00	4.00%	78.3				
19th AVENUE	85+48.62	85+64.36	LT	VARIES	5.00	4.00%		7.7		10	RAMP AT NW CORNER OF 19TH AVE AND 7TH ST
19th AVENUE	85+54.02	85+86.25	RT	5.00	10 TO 8	4.00%			30.7		
19TH AVENUE	85+86.25	89+10.46	RT	5.00	8 TO 9	4.00%			297.2		RAMP AT SW CORNER OF 19TH AVE AND 6TH ST
19th AVENUE	86+03.28	86+18.28	LT	5.00	5.00	4.00%		7.1		10	INCLUDES RAMP AT NE CORNER 19TH/7TH
19th AVENUE	86+18.28	86+96.73	LT	5.00	5.00	4.00%	44.9				
19TH AVENUE	87+12.73	87+87.45	LT	5.00	5.00	4.00%	42.9				
19TH AVENUE	87+97.45	88+75.47	LT	5.00	5.00	4.00%	45.6				
19TH AVENUE	88+75.47	88+90.47	LT	5.00	5 TO 8	4.00%	10.9				
19TH AVENUE	88+90.47	89+10.55	LT	-	8.00	-		11.9	7.2	38	RAMP AT NW CORNER 19TH AVE AND 6TH ST
19th AVENUE	89+47.73	89+62.33	RT	8.00	5.00	4.00%				10	RAMP AT SE CORNER OF 19TH AVE AND 6TH ST
19th AVENUE	89+48.03	92+56.09	LT	5.00	8.00	4.00%			271.0	50	INCLUDES RAMP AT NE CORNER 19TH/6TH & NW CORNER 19TH/5TH
19th AVENUE	89+62.33	89+68.95	RT	8 TO 7	5.00	4.00%	3.7				
19th AVENUE	89+88.95	90+78.40	RT	7.00	5.00	4.00%	49.7				
19th AVENUE	91+01.40	91+15.74	RT	7.00	5.00	4.00%	8.0				
19th AVENUE	91+54.50	92+37.45	RT	7.00	5.00	4.00%	46.1				
19th AVENUE	92+37.45	92+55.77	RT	-	5.00	4.00%		13.3		20	RAMP AT SW CORNER OF 19TH AVE AND 5TH ST
19th AVENUE	92+92.83	93+14.28	RT	-	5.00	4.00%		15.3		20	RAMP AT SE CORNER OF 19TH AVE AND 5TH ST
19th AVENUE	92+93.49	99+46.63	LT	5.00	8.00	4.00%			628.4		INCLUDES RAMP AT NE CORNER 19TH/5TH AND NW CORNER 19TH/3RD
19th AVENUE	93+14.28	95+62.34	RT	8.00	5.00	4.00%	137.8				
19th AVENUE	95+87.34	99+29.02	RT	8.00	5 TO 6	4.00%	223.0				
19th AVENUE	99+29.02	99+46.56	RT	-	5.00	4.00%		13.0		20	RAMP AT SW CORNER OF 19TH AVE AND 3RD ST
19th AVENUE	99+93.70	100+04.98	RT	-	5.00	4.00%		7.8		20	RAMP AT SE CORNER OF 19TH AVE AND 3RD ST
19th AVENUE	99+93.77	102+90.04	LT	5.00	8.00	4.00%			264.2	79	INCLUDES RAMP AT NE CORNER 19TH/3RD AND NW CORNER 19TH/PERSHING
19th AVENUE	100+04.98	102+01.94	LT	8.00	5.00	4.00%	109.4				
19th AVENUE	102+13.94	102+68.45	LT	8.00	5.00	4.00%	30.3				
19th AVENUE	102+68.45	102+89.91	RT	-	5.00	4.00%		15.3		20	RAMP AT SW CORNER OF 19TH AVE AND PERSHING BLVD
19th AVENUE	103+36.82	103+51.70	RT	-	5.00	4.00%		10.8		20	RAMP AT SE CORNER OF 19TH AVE AND PERSHING BLVD
19th AVENUE	103+36.22	104+77.85	LT	5.00	4 TO 8	4.00%			117.0	35	INCLUDES RAMP AT NE CORNER OF 19TH AVE AND PERSHING BLVD
19th AVENUE	103+51.70	104+75.28	RT	8.00	5.00	4.00%	69.0				
19th AVENUE	80+46.20	80+46.20	LT	-	4.00	-	15.1				SIDEWALK FOR PARCEL #14
19th AVENUE	80+62.53	80+98.19	LT	-	4.00	-	20.0				SIDEWALK FOR PARCEL #15
19th AVENUE	86+61.50	86+61.50	LT	-	-	-	8.6				SIDEWALK FOR PARCEL #24. TIE IN TO EXISTING.
19th AVENUE	87+80.00	87+80.00	LT	-	4.00	-	3.1				SIDEWALK FOR PARCEL #26. TIE IN TO EXISTING.
19th AVENUE	88+65.00	88+65.00	LT	-	4.00	-	3.3				SIDEWALK FOR PARCEL #26. TIE IN TO EXISTING.
19th AVENUE	90+06.00	90+06.00	LT	-	4.00	-	2.6				SIDEWALK FOR PARCEL #29. TIE IN TO EXISTING.
19th AVENUE	92+40.00	92+40.00	LT	-	5.00		8.9				CONNECTION TO EXISTING IN NW CORNER OF 5TH STREET
19th AVENUE	92+40.00	92+40.00	RT	-	5.00	-	9.9				CONNECTION TO EXISTING IN SW CORNER OF 5TH STREET
19th AVENUE	93+12.00	93+12.00	LT	-	5.00	-	12.6				CONNECTION TO EXISTING IN NE CORNER OF 5TH STREET
19th AVENUE	93+40.00	93+40.00	LT	-	4.00	-	3.1				SIDEWALK FOR PARCEL #30. TIE IN TO EXISTING.
	100+33.36	100+33.36	LT		4.00		5.2				SIDEWALK FOR PARCEL #38. TIE IN TO EXISTING.
19th AVENUE	102+78.00	102+78.00	LT	-	-	-	7.3				CONNECTION TO EXISTING IN NW CORNER OF PERSHING BLVD
19th AVENUE	102+78.00	102+78.00	RT	-	4.00	-	5.3				CONNECTION TO EXISTING IN SW CORNER OF PERSHING BLVD
19th AVENUE	103+50.00	103+50.00	LT	-	4.00	-	5.4				CONNECTION TO EXISTING IN NE CORNER OF PERSHING BLVD
19th AVENUE	103+50.00	103+50.00	RT	-	4.00	-	6.4				CONNECTION TO EXISTING IN SE CORNER OF PERSHING BLVD
19th AVENUE	103+85.00	103+85.00	RT	-	4.00	-	2.7				SIDEWALK FOR PARCEL #45. TIE IN TO EXISTING.
19th AVENUE	103+90.00	103+90.00	LT	-	5.00	-	3.6				SIDEWALK FOR PARCEL #46. TIE IN TO EXISTING.
19th AVENUE	104+45.00	104+45.00	RT	-	4.00	-	2.6				SIDEWALK FOR PARCEL #47. TIE IN TO EXISTING.
19th AVENUE	104+55.00	104+55.00	LT	-	4.00	-	2.2				SIDEWALK FOR PARCEL #48. TIE IN TO EXISTING.
3RD STREET	298+50.00	299+40.54	RT	4.50	5.00	VARIES	50.3				TIE IN TO EXISTING
3RD STREET	298+75.50	299+40.50	LT	16.50	5 TO 6	VARIES	36.8				TIE IN TO EXISTING
3RD STREET	300+05.54	300+66.59	RT	7.00	5.00	VARIES	33.9				TIE IN TO EXISTING
3RD STREET	300+05.50	301+67.55	LT	VARIES	5.00	VARIES	90.3				TIE IN TO EXISTING
		TOTALS					2014.2	117.7	3427.5	392	

TABULATION OF SILT FENCES

Refer to EC-201

Location			Length	Remarks
Begin Station	End Station	Side	LF	
74+50.00	74+50.00	RT	10.0	PROTECT FES
75+75.00	78+50.00	LT	325.0	INSTALL 'J' HOOKS
				AT 50' INTERVALS
78+34.00	78+34.00	RT	10.0	PROTECT FES
84+00.00	85+70.00	LT	180.0	INSTALL 'J' HOOKS
				AT 50' INTERVALS
86+00.00	86+55.00	LT	70.0	
87+15.00	87+50.00	LT	43.0	
88+00.00	88+64.00	LT	65.0	
88+68.00	89+10.00	LT	45.0	
89+45.00	90+00.00	LT	55.0	
91+10.00	92+59.00	LT	155.0	INSTALL 'J' HOOKS
				AT 50' INTERVALS
93+00.00	93+35.00	LT	35.0	
100+07.00	100+31.00	LT	35.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
100+07.00	100+66.00	RT	76.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
100+35.00	100+72.00	LT	40.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
100+70.00	101+25.00	RT	58.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
100+80.00	101+23.00	LT	48.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
101+29.00	101+72.00	RT	48.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
101+28.00	101+50.00	LT	23.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
101+70.00	101+90.00	LT	45.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
101+77.00	101+93.00	LT	17.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
101+94.00	102+72.00	LT	78.0	
102+15.00	102+74.00	RT	61.0	INSTALL 'J' HOOK AT
				DOWNSTREAM END
104+00.00	104+75.00	RT	75.0	
	SUBTOTALS		1597.0	
			1.3	
			1996.3	

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

Refer to Soils Sheets

(1) Refer to EW-203, EW-204, or EW-211.
*Not a bid item

Location						Longitudinal Subdrain (DR-303)							Subdrain Outlet				
					Depth	Shoulder		Backslope		Bridge Berm (1)			DR-303, DR-304, or DR-305		Porous* Backfill	Class "A"* Crushed Stone	Remarks
Line No.	Road or Lane Ident.	Station	to Station	Side	(D)	Size	Length	Size	Length	Size	Type	Length	Station	Standard Road Plan and Type			
					IN	IN	FT	IN	FT	IN		FT			CY	CY	
1	EBL	69+07.00	71+25.00	RT	32.0	4.0	224.0						71+25.00	DR-303	15.0		
													71+25.00	DR-303			
2	WBL	69+07.00	72+50.00	LT	32.0	4.0	349.0						72+50.00	DR-303	23.3		
													72+50.00	DR-303			
3	EBL	71+25.00	72+50.00	RT	32.0	4.0	131.0						72+50.00	DR-303	8.8		
													72+50.00	DR-303			
4	WBL	72+50.00	74+75.00	LT	32.0	4.0	231.0						74+75.00	DR-303	15.4		
													74+75.00	DR-303			
5	EBL	72+50.00	74+75.00	RT	32.0	4.0	231.0						74+75.00	DR-303	15.4		
													74+75.00	DR-303			
6	WBL	74+75.00	75+93.00	LT	32.0	4.0	124.0						75+93.00	DR-303	8.3		
													75+93.00	DR-303			
7	EBL	74+75.00	75+93.00	RT	32.0	4.0	124.0						75+93.00	DR-303	8.3		
													75+93.00	DR-303			
8	WBL	75+93.00	76+50.00	LT	32.0	4.0	63.0						76+50.00	DR-303	4.2		
													76+50.00	DR-303			
9	EBL	75+93.00	76+50.00	RT	32.0	4.0	63.0						76+50.00	DR-303	4.2		
													76+50.00	DR-303			
10	WBL	76+50.00	78+00.00	LT	32.0	4.0	156.0						78+00.00	DR-303	10.4		
													78+00.00	DR-303			
11	EBL	76+50.00	78+00.00	RT	32.0	4.0	156.0						78+00.00	DR-303	10.4		
													78+00.00	DR-303			
12	WBL	78+00.00	83+50.00	LT	32.0	4.0	556.0						83+50.00	DR-303	37.1		PROVIDE CLEANOUT AT HIGHPOINT
													83+50.00	DR-303			
13	EBL	78+00.00	83+50.00	RT	32.0	4.0	556.0						83+50.00	DR-303	37.1		PROVIDE CLEANOUT AT HIGHPOINT
													83+50.00	DR-303			
14	WBL	83+50.00	85+25.00	LT	32.0	4.0	181.0						85+25.00	DR-303	12.1		
													85+25.00	DR-303			
15	EBL	83+50.00	85+25.00	RT	32.0	4.0	181.0						85+25.00	DR-303	12.1		
													85+25.00	DR-303			
16	WBL	85+25.00	88+75.00	LT	32.0	4.0	356.0						88+75.00	DR-303	23.8		
													88+75.00	DR-303			
17	EBL	85+25.00	87+00.00	RT	32.0	4.0	181.0						87+00.00	DR-303	12.1		
													87+00.00	DR-303			
18	EBL	87+00.00	88+75.00	RT	32.0	4.0	181.0						88+75.00	DR-303	12.1		
													88+75.00	DR-303			
19	WBL	88+75.00	92+25.00	LT	32.0	4.0	356.0						92+25.00	DR-303	23.8		
													92+25.00	DR-303			
20	EBL	88+75.00	90+50.00	RT	32.0	4.0	181.0						90+50.00	DR-303	12.1		
													90+50.00	DR-303			
21	EBL	90+50.00	92+25.00	RT	32.0	4.0	181.0						92+25.00	DR-303	12.1		
													92+25.00	DR-303			
22	WBL	92+25.00	96+00.00	LT	32.0	4.0	381.0						96+00.00	DR-303	25.5		
													96+00.00	DR-303			
23	EBL	92+25.00	96+00.00	RT	32.0	4.0	381.0						96+00.00	DR-303	25.5		
													96+00.00	DR-303			
24	WBL	96+00.00	99+00.00	LT	32.0	4.0	306.0						99+00.00	DR-303	20.4		
													99+00.00	DR-303			
25	EBL	96+00.00	97+50.00	RT	32.0	4.0	156.0						97+50.00	DR-303	10.4		
													97+50.00	DR-303			
26	EBL	97+50.00	99+00.00	RT	32.0	4.0	156.0						99+00.00	DR-303	10.4		
													99+00.00	DR-303			
27	WBL	99+00.00	101+46.00	LT	32.0	4.0	252.0						101+46.00	DR-303	16.8		
													101+46.00	DR-303			
28	EBL	99+00.00	102+50.00	RT	32.0	4.0	356.0						102+50.00	DR-303	23.8		
													102+50.00	DR-303			
29	WBL	101+46.00	102+50.00	LT	32.0	4.0	110.0						102+50.00	DR-303	7.3		
													102+50.00	DR-303			
30	WBL	102+50.00	103+30.00	LT	32.0	4.0	86.0								5.7		PROVIDE BEND AND CONNECT TO SD #31
31	EBL	102+50.00	103+30.00	RT	32.0	4.0	86.0						103+30.00	DR-303	5.7		CONNECT TO MANHOLE
32	WBL	295+19.00	296+18.50	LT	32.0	4.0	105.5						296+18.50	DR-303	7.0		PROVIDE CLEANOUT AT UPSTREAM END.
33	EBL	295+19.00	296+18.50	RT	32.0	4.0	105.5						296+18.50	DR-303	7.0		PROVIDE CLEANOUT AT UPSTREAM END.
																	CONNECT TO EXSTING INTAKE.
34	WBL	296+18.50	299+25.00	LT	32.0	4.0	312.5						296+18.50	DR-303	20.9		PROVIDE CLEANOUT AT UPSTREAM END.
35	EBL	296+18.50	299+25.00	RT	32.0	4.0	312.5						296+18.50	DR-303	20.9		PROVIDE CLEANOUT AT UPSTREAM END.
			TOTALS				7868.0						+63.00		525.7		

SIDEWALK REMOVAL

* Not a bid item

Begin Station	End Station	Area SY	Saw Cut* LF	Remarks
80+50.00	80+50.00	7.9	8.0	
80+95.00	80+95.00	12.4	8.0	
81+50.00	81+50.00	38.9	8.0	
83+00.00	83+00.00	33.3	8.0	
84+35.00	84+35.00	7.0	8.0	
86+60.00	86+60.00	18.3	8.0	
87+80.00	87+80.00	2.6	8.0	
88+65.00	88+65.00	13.3	8.0	
90+05.00	90+05.00	6.1	8.0	
91+62.00	92+16.00	19.4	8.0	
92+40.00	92+40.00	18.9	8.0	
92+48.00	92+48.00	18.3	8.0	
92+90.00	99+50.00	328.9	8.0	
92+93.00	99+48.00	311.7	8.0	
99+90.00	102+95.00	181.7	8.0	
99+94.00	102+93.00	181.7	8.0	
103+33.00	104+78.00	88.3	8.0	
103+34.00	104+75.00	95.0	8.0	
298+75.00	301+67.00	96.1	8.0	
298+50.00	300+67.00	69.4	8.0	
	TOTALS	1549.3	160.0	

NOTES: FULL DEPTH SAW CUT AT REMOVAL LIMIT IS CONSIDERED INCIDENTAL TO BID ITEM

POLLUTION PREVENTION PLAN

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

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

I. ROLES AND RESPONSIBILITES

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

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

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

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the construction of a roadway extension.
B. This PPP covers approximately 11 acres with an estimated 11 acres being disturbed. The portion of the PPP covered by this contract has 11 acres disturbed.

C. The PPP is located in an area of Fayette soil association.
The estimated average SCS runoff curve number for this PPP after completion will be 81.
D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
1. Drainage patterns - Plan and Profile sheets and Situation plans.
2. Proposed Slopes - Cross Sections.
3. Areas of Soil Disturbance - construction limits shown on Plan and Profile sheets.
4. Location of Structural Controls - Tabulations on C sheets.
5. Locations of Non-structural Controls - Tabulations on C sheets.
6. Locations of Stabilization Practices - generally within construction limits shown on Plan and Profile sheets.
7. Surface Waters (including wetlands) - Plan and Profile sheets.
8. Locations where storm water is discharged - Plan and Profile sheets.

E. The base site map is amended by contract modifications and progress payments of completed erosion control work.
F. Runoff from this work will flow into City of Clinton Storm sewer ultimately to the Mississippi River.

III. CONTROLS

A. The contractor's work plan and sequence of operations specified in Article 2602.03 for accomplishment of storm water controls should clearly describe the intended sequence of major activities and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
B. Preserve vegetation in areas not needed for construction.
C. Section 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B.
1. EROSION AND SEDIMENT CONTROLS
a. Stabilization Practices
1) Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized.
2) Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased.
3) Temporary stabilizing seeding shall be completed as the disturbed areas are constructed. If construction activity is not planned to occur in a disturbed area for at least 21 days, the area shall be stabilized by temporary seeding or mulching within 14 days. Other stabilizing methods shall be used outside the seeding time period.
4) Stabilization measures to be used for this project are located in the Estimated Project Quantities (100-1A) and Estimate Reference Information (100-4A) located on the C sheets of the plan. Additional items may be found in the Inspector's Daily Reports (IDR) or Contract Modifications.
b. Structural Practices
1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site.
2) Structural items to be used for this project are located in the Estimated Project Quantities (100-1A) and Estimate Reference Information (100-4A) located on the C sheets of the plan, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B sheets of the plan or are referenced in the Standard Road Plans Tabulation.
c. Storm Water Management
1) Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

110-12A
Modified

POLLUTION PREVENTION PLAN

2. OTHER CONTROLS
a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.
1) Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
2) Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
3) Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
4) Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
5) Spill Prevention and Control - Implement procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
6) Concrete Residuals and Washout Wastes - Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located.
7) Vehicle and Equipment Cleaning - Employ washing practices that prevent contamination of surface and ground water from wash water.
8) Vehicle and Equipment Fueling and Maintenance - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onside fuels and proper disposal of used engine oil or other fluids on site.
9) Litter Management - Ensure employees properly dispose of litter.
3. APPROVED STATE OR LOCAL PLANS
During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

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

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the contractor and the contracting authority at least once every seven calendar days. Storm water monitoring inspections will include:
1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
4. Rainfall amount.
5. Review erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
6. Major observations related to the implementation of the PPP.
7. Identify corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water monitoring inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found and complete all actions within 3 calendar days of the inspection.

VI. NON-STORM WATER DISCHARGES

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

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

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

VIII. DEFINITIONS

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

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.

Consultant Signature

Andy Burke
Printed or Typed Name

Contracting Authority Signature

Jason Craft
Printed or Typed Name

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
BLW4: Broken Lane Line (White) @ 0.25
SLW4: Solid Lane Line (White) @ 1.00
SLW2: Stop Line (White) @ 6.00
CLW6: Crosswalk Line (White) @ 3.00
NPY4: No Passing Zone Line (Yellow) @ 1.25

Location								Length by Line Type (Unfactored)															Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4*	DCY4	BLW4	SLW4	SLW2	CLW6	NPY4**									
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
19TH AVE	79+50.00	82+02.00	WB	Durable Paint	X									2.52									EPOXY PAINT
19TH AVE	79+50.00	82+02.00	EB	Durable Paint			X							2.52									EPOXY PAINT
19TH AVE	82+75.00	85+44.00	WB	Durable Paint	X									2.69									EPOXY PAINT
19th AVE	82+75.00	85+44.00	EB	Durable Paint			X							2.69									EPOXY PAINT
19th AVE	86+23.00	88+89.00	WB	Durable Paint	X									2.66									EPOXY PAINT
19th AVE	86+23.00	88+89.00	EB	Durable Paint			X							2.66									EPOXY PAINT
19th AVE	88+88.00	89+00.00	BOTH	Durable Paint	X		X						0.82										EPOXY PAINT
19th AVE	89+70.00	92+34.00	WB	Durable Paint	X									2.64									EPOXY PAINT
19th AVE	89+70.00	92+34.00	EB	Durable Paint			X							2.64									EPOXY PAINT
19th AVE	93+15.00	97+73.00	WB	Durable Paint	X									4.58									EPOXY PAINT
19th AVE	93+15.00	97+73.00	EB	Durable Paint			X							4.58									EPOXY PAINT
19th AVE	97+73.00	99+23.00	WB	Durable Paint	X				1.50														EPOXY PAINT
19th AVE	98+48.00	99+23.00	EB	Durable Paint			X				0.75												EPOXY PAINT
19th AVE	99+23.00	99+23.00	EB	Durable Paint	X		X					0.25											EPOXY PAINT
19th AVE	99+28.00	99+35.00	BOTH	Durable Paint	X		X						0.81										EPOXY PAINT
19th AVE	99+99.00	100+06.00	BOTH	Durable Paint	X		X						0.93										EPOXY PAINT
19th AVE	100+11.00	100+11.00	WB	Durable Paint	X		X					0.25											EPOXY PAINT
19th AVE	100+11.00	100+86.00	WB	Durable Paint	X						0.75												EPOXY PAINT
19th AVE	100+11.00	101+61.00	EB	Durable Paint			X		1.50														EPOXY PAINT
19th AVE	101+61.00	102+68.00	WB	Durable Paint	X									1.07									EPOXY PAINT
19th AVE	101+61.00	102+68.00	EB	Durable Paint			X							1.07									EPOXY PAINT
19th AVE	103+58.80	104+60.10	WB	Durable Paint	X									1.01									EPOXY PAINT
19th AVE	103+58.80	104+60.10	EB	Durable Paint			X							1.01									EPOXY PAINT
19th AVE	104+60.10	106+07.40	WB	Durable Paint	X				1.47														EPOXY PAINT
19th AVE	105+35.30	106+07.40	EB	Durable Paint			X				0.75												EPOXY PAINT
3RD STREET	295+22.00	299+34.00	SB	Durable Paint	X					4.12													EPOXY PAINT
3RD STREET	295+22.00	299+34.00	BOTH	Durable Paint		X			4.12														EPOXY PAINT
3RD STREET	295+22.00	299+34.00	NB	Durable Paint			X			4.12													EPOXY PAINT
3RD STREET	299+34.00	299+34.00	NB	Durable Paint			X					0.21											EPOXY PAINT
3RD STREET	299+38.00	299+44.00	BOTH	Durable Paint	X		X						1.00										EPOXY PAINT
3RD STREET	299+96.00	300+06.00	BOTH	Durable Paint	X		X						1.00										EPOXY PAINT
3RD STREET	300+10.00	300+10.00	SB	Durable Paint	X							0.21											EPOXY PAINT
3RD STREET	300+10.00	301+68.00	SB	Durable Paint	X					1.58													EPOXY PAINT
3RD STREET	300+10.00	301+65.00	BOTH	Durable Paint		X			1.58														EPOXY PAINT
3RD STREET	300+10.00	301+65.00	NB	Durable Paint			X			1.58													EPOXY PAINT
				Factored Total: Durable Paint				-	20.34	2.85	2.25	5.52	13.68	42.93	-	-	-	-	-	-	-	-	
				Bid Quantity: Painted Pavement Markings, Durable							87.57												

REMOVAL OF INTAKES AND UTILITY ACCESSES

No.	Location/Description	Type	Remarks
1	83+92, SANITARY SEWER MANHOLE	Utilities	MAINTAIN SERVICE TO EXISTING USERS
2	85+82, SANITARY SEWER MANHOLE	Utilities	MAINTAIN SERVICE TO EXISTING USERS
3	85+40 RT, STORM SEWER INTAKE	Intakes	
4	85+40 LT, STORM SEWER INTAKE	Intakes	
5	85+70 LT, STORM SEWER INTAKE	Intakes	ABANDON DOWNSTREAM PIPE BY PLUGGING
6	102+72 LT, STORM SEWER INTAKE	Intakes	
7	102+72 RT, STORM SEWER INTAKE	Intakes	
8	102+73 RT, STORM SEWER INTAKE	Intakes	
9	103+33 RT, STORM SEWER INTAKE	Intakes	
10	295+25 RT, STORM SEWER INTAKE	Intakes	
11	398+65 RT, STORM SEWER INTAKE	Intakes	

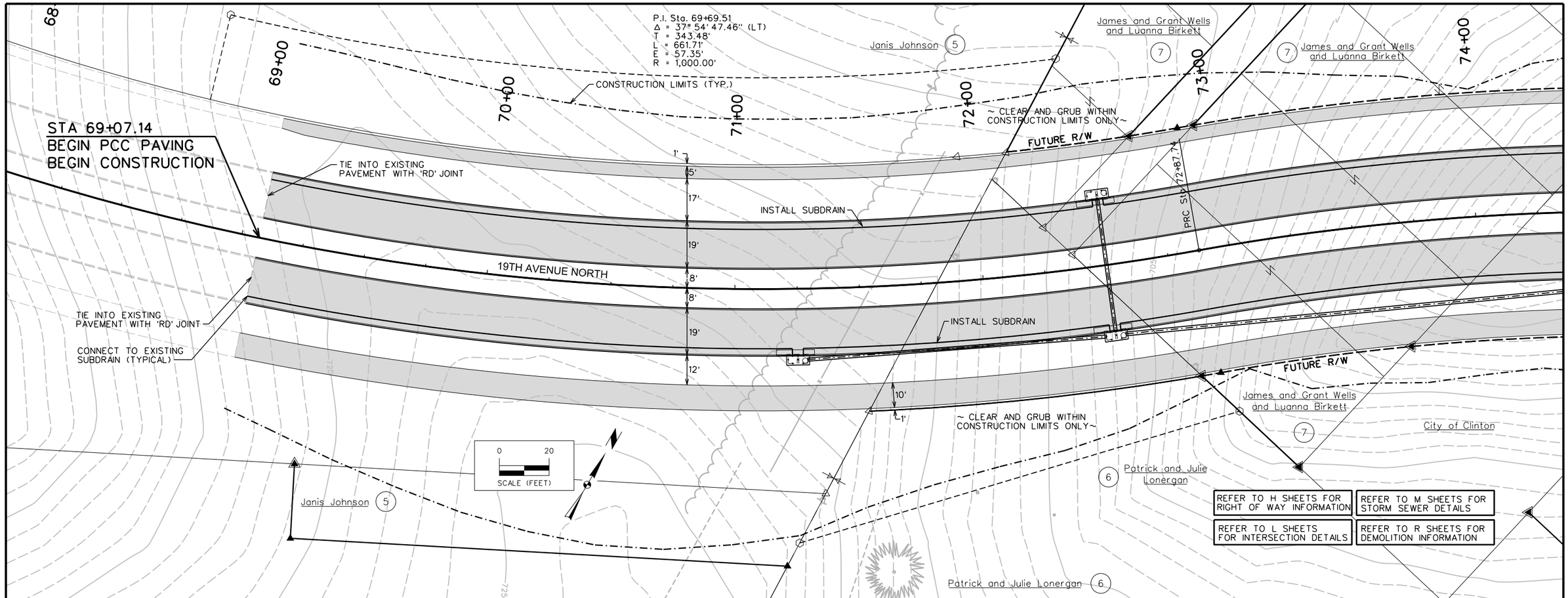
PAVEMENT MARKING SYMBOLS AND LEGENDS

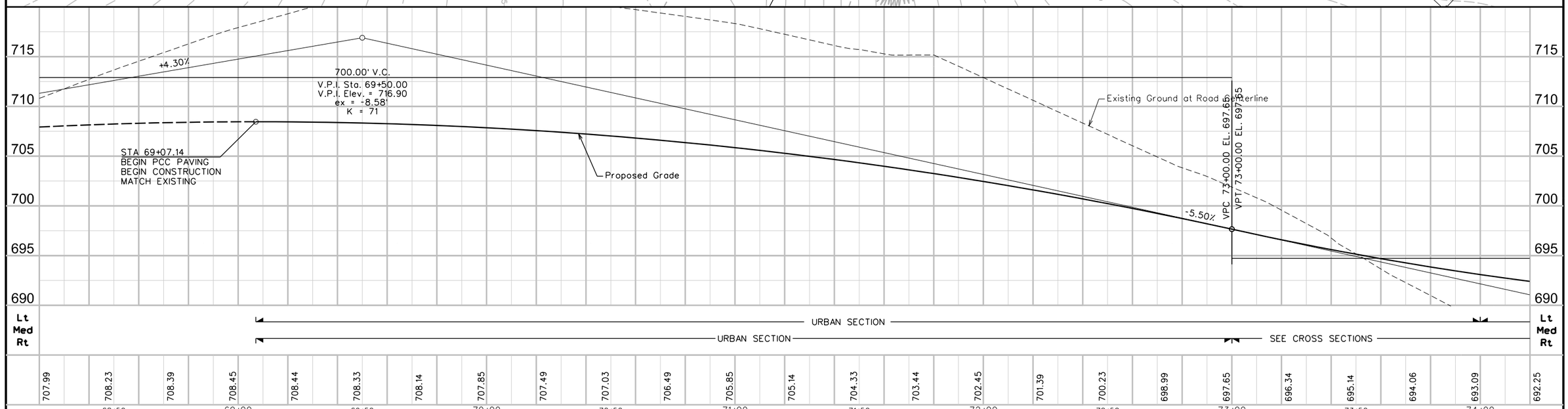
Refer to PM-111

Road Identification	Location Station	Location Side	STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	WPSB	SCLW	XNGW	STPW	AHDW	ONLW	BIKW	LANW	XITW	Groove Cuts EACH	Remarks
19TH AVENUE	80+65.00	CTR			1																					EPOXY PAINT
19TH AVENUE	80+81.00	CTR			1																					EPOXY PAINT
19TH AVENUE	84+00.00	CTR			1																					EPOXY PAINT
19th AVENUE	84+16.00	CTR			1																					EPOXY PAINT
19th AVENUE	87+45.00	CTR			1																					EPOXY PAINT
19th AVENUE	87+61.00	CTR			1																					EPOXY PAINT
19th AVENUE	90+90.00	CTR			1																					EPOXY PAINT
19th AVENUE	91+06.00	CTR			1																					EPOXY PAINT
19th AVENUE	94+35.00	CTR			1																					EPOXY PAINT
19th AVENUE	94+51.00	CTR			1																					EPOXY PAINT
19th AVENUE	96+40.00	CTR			1																					EPOXY PAINT
19th AVENUE	96+56.00	CTR			1																					EPOXY PAINT
19th AVENUE	98+23.00	CTR			1																					EPOXY PAINT
19th AVENUE	98+93.00	CTR			1																					EPOXY PAINT
19th AVENUE	100+40.00	CTR			1																					EPOXY PAINT
19th AVENUE	101+10.00	CTR			1																					EPOXY PAINT
19th AVENUE	102+03.00	CTR			1																					EPOXY PAINT
19th AVENUE	102+19.00	CTR			1																					EPOXY PAINT
19th AVENUE	104+10.00	CTR			1																					EPOXY PAINT
19th AVENUE	104+26.00	CTR			1																					EPOXY PAINT
19th AVENUE	105+10.00	RT			1																					EPOXY PAINT
19th AVENUE	105+80.00	RT			1																					EPOXY PAINT
	TOTALS				22																					

STAIRS AND HANDRAILS

Parcel No.	Stair Area (SF)	Handrail Length (LF)	Notes
24	27	12	
26	29	13	RENTAL PROPERTY
26	40	14	MAIN RESIDENCE
37	58	24	
39	54	21	
40	43	16	
41	43	16	
42	41	12	
43	27	10	
TOTALS	360	138	





ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER D.1

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REFER TO H SHEETS FOR RIGHT OF WAY INFORMATION

REFER TO L SHEETS FOR INTERSECTION DETAILS

REFER TO M SHEETS FOR STORM SEWER DETAILS

REFER TO R SHEETS FOR DEMOLITION INFORMATION

CONSTRUCT 22' x 18' STILLING BASIN REFER TO U SHEETS FOR DETAILS

LOT 6 · LOT 5 · LOT 4 · LOT 4 · LOT 9 · LOT 10 · LOT 11 · LOT 8 · LOT 7 · LOT 6 · LOT 5 · LOT 8

James and Grant Wells and Luanna Birkett (7) · (8) · (11) · (12) · (13)

Jay Rice (10)

City of Clinton

CONSTRUCTION LIMITS (TYP.)

~ CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS ONLY ~

FUTURE R/W

EX. R/W

RANDALL COURT

74+00 · 75+00 · 76+00 · 77+00 · 78+00 · 79+00

INSTALL SUBDRAIN

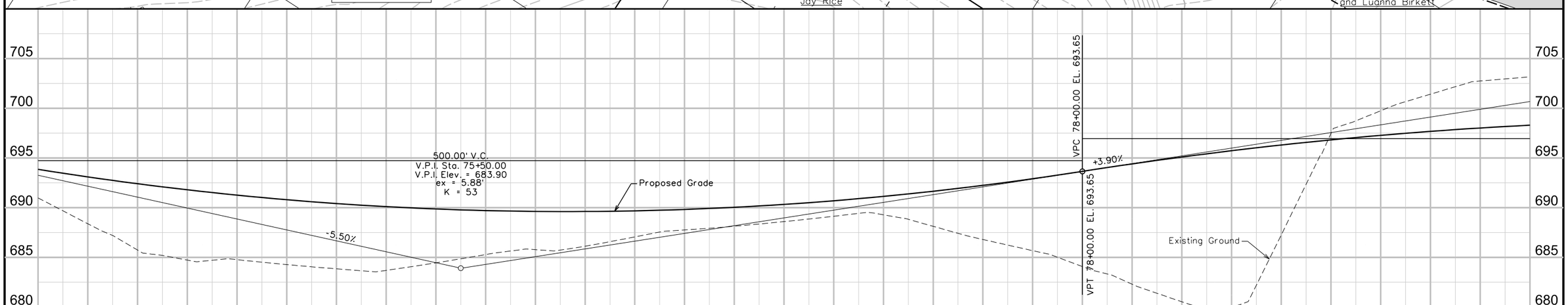
1' · 5' · 17' · 19' · 8' · 8' · 19' · 12' · 10' · 1'

19TH AVENUE NORTH

RANDALLS ADDITION BLOCK 13

P.I. Sta. 77+66.16
Δ = 51° 08'07.26" (RT.)
T = 478.43'
L = 892.48'
E = 108.55'
R = 1,000.00'

SCALE (FEET) 0 20



Lt Med Rt	DITCH SECTION						DITCH SECTION						URBAN SECTION						DITCH SECTION						Lt Med Rt
	SEE CROSS SECTIONS						CUT OFF SWALE SECTION												SEE CROSS SECTIONS						URBAN SECTION
694.06	693.09	692.25	691.52	690.91	690.41	690.04	689.78	689.64	689.61	689.71	689.92	690.25	690.69	691.26	691.94	692.74	693.65	694.58	695.42	696.17	696.82	697.38	697.85	698.23	

74+00 · 74+50 · 75+00 · 75+50 · 76+00 · 76+50 · 77+00 · 77+50 · 78+00 · 78+50 · 79+00 · 79+50

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER D.2

14 Maurice and Caryl Miller

15 Barry and Linda Kustes

16 James and Ellen Leitzen

NORTH 8TH STREET

City of Clinton

19 Beverly Miller and Donald Price

22 Robert and Dawn Goodridge

0 20 SCALE (FEET)

NO STOCKPILING OF EXCAVATED MATERIAL, STORED MATERIAL OR PARKING OF EQUIPMENT ALLOWED ON PARCEL 14

City of Clinton

CONSTRUCTION LIMITS (TYP.)

80+00 81+00 82+00 83+00 84+00 85+00

+19.30 Prop. Type "C" Ent.

+36.70 8th St.

+77.95 Prop. Type "C" Ent.

EX. R/W

FUTURE R/W

~ CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS ONLY~

INSTALL SUBDRAIN

19TH AVENUE NORTH

REMOVE SIGN

INSTALL SUBDRAIN

PT Sta 81+80.22

FUTURE R/W

13 James and Grant Wells and Luanna Birkett

RANDALL COURT

17 Bank of America

18 Dianne Bengston

City of Clinton

INSTALL 50 LF OF W-TYPE STEEL GUARD RAIL

PROTECT TREE LINE

INSTALL 60 LF OF W-TYPE STEEL GUARD RAIL

~ CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS ONLY~

Christopher and Julie Holland

20

21 Christopher and Julie Holland

SPENCE COURT

Rim=694.36 Inv=687.18 8" VCP E Inv=687.24 8" VCP W Inv=687.50 8" VCP S

Rim=688.98 F.L.=683.13 RCP

Rim=689.90 F.L.=687.30 RCP

5' 8' 39' 10' 1'

REFER TO H SHEETS FOR RIGHT OF WAY INFORMATION

REFER TO M SHEETS FOR STORM SEWER DETAILS

REFER TO S SHEETS FOR PEDESTRIAN RAMP DETAILS

REFER TO L SHEETS FOR INTERSECTION DETAILS

REFER TO R SHEETS FOR DEMOLITION INFORMATION

REFER TO U SHEETS FOR SANITARY SEWER DETAILS

705 700 695 690 685 680

+3.90%

Existing Ground

500.00' V.C.
V.P.I. Sta. 80+50.00
V.P.I. Elev. = 703.40
ex = -4.59'
K = 68

VPT/ 83+00.00 EL. 694.81

-3.44%

Proposed Grade

Lt Med Rt

URBAN SECTION

URBAN SECTION

697.85 698.23 698.52 698.72 698.82 698.83 698.75 698.58 698.32 697.96 697.52 696.98 696.35 695.63 694.81 693.96 693.10 692.24 691.38 690.52 689.66 688.80 687.94 687.08 686.22

79+50 80+00 80+50 81+00 81+50 82+00 82+50 83+00 83+50 84+00 84+50 85+00 85+5

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	D.3

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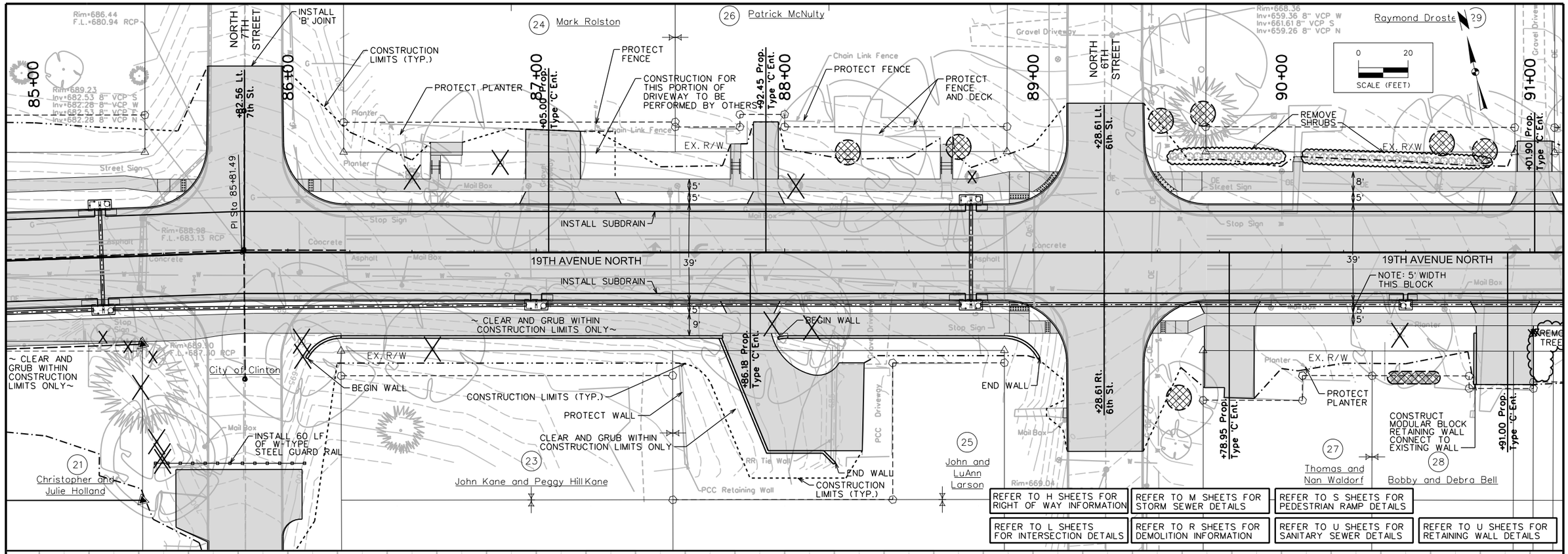
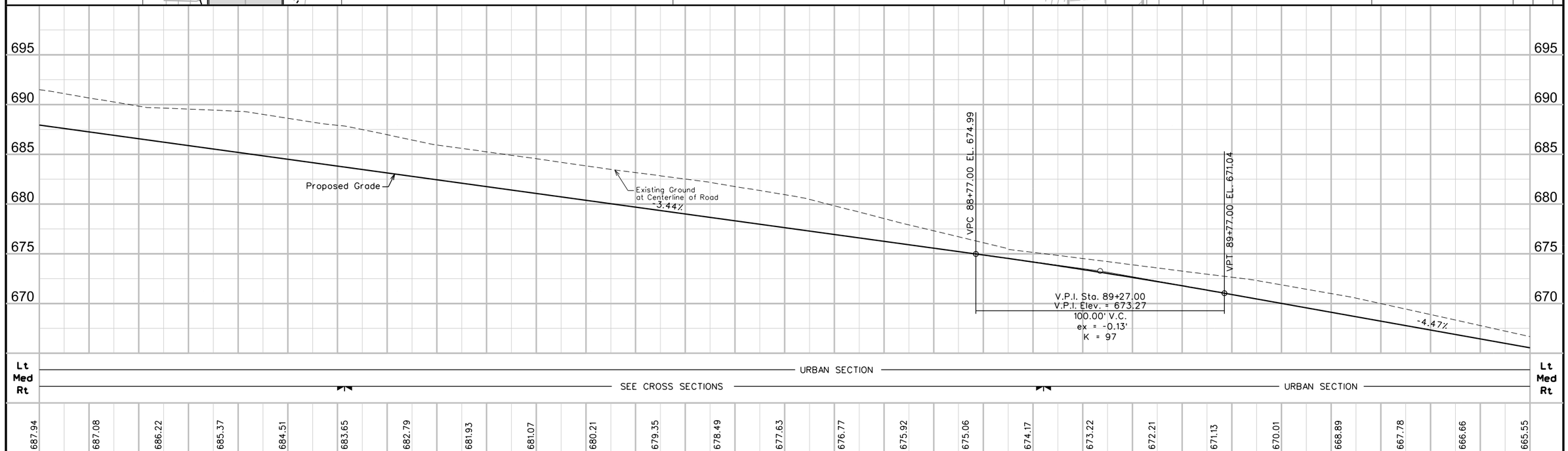
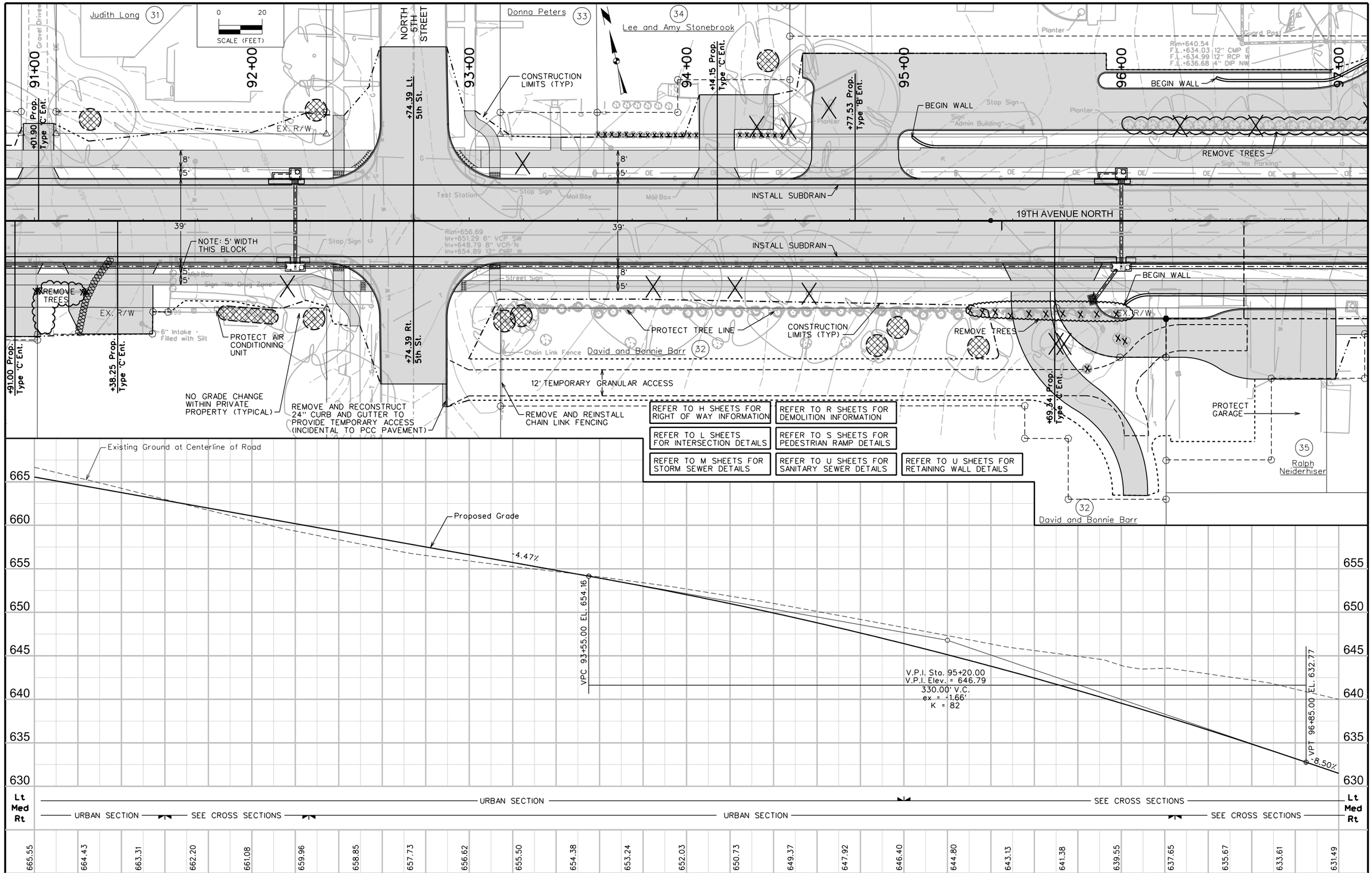
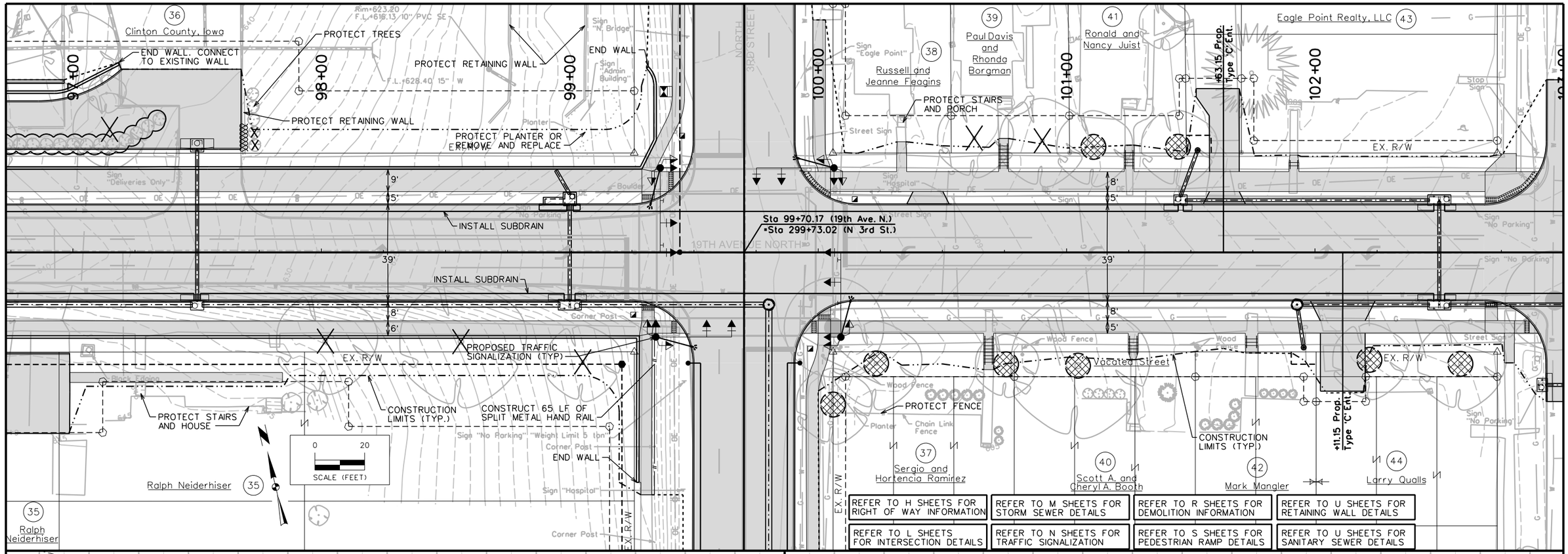


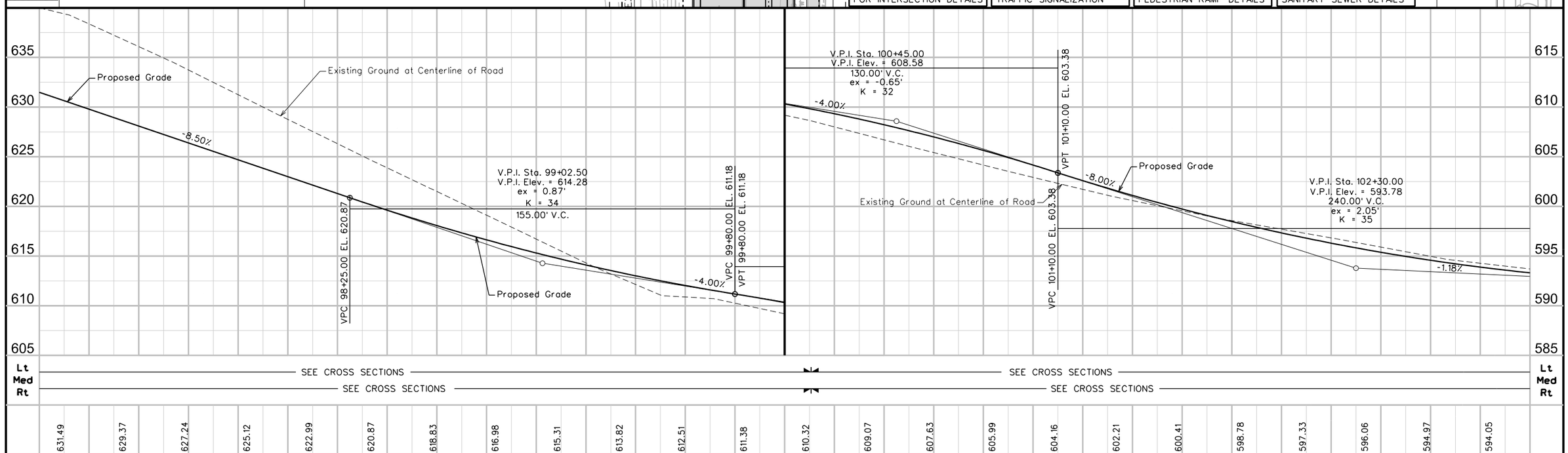


ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	D.4

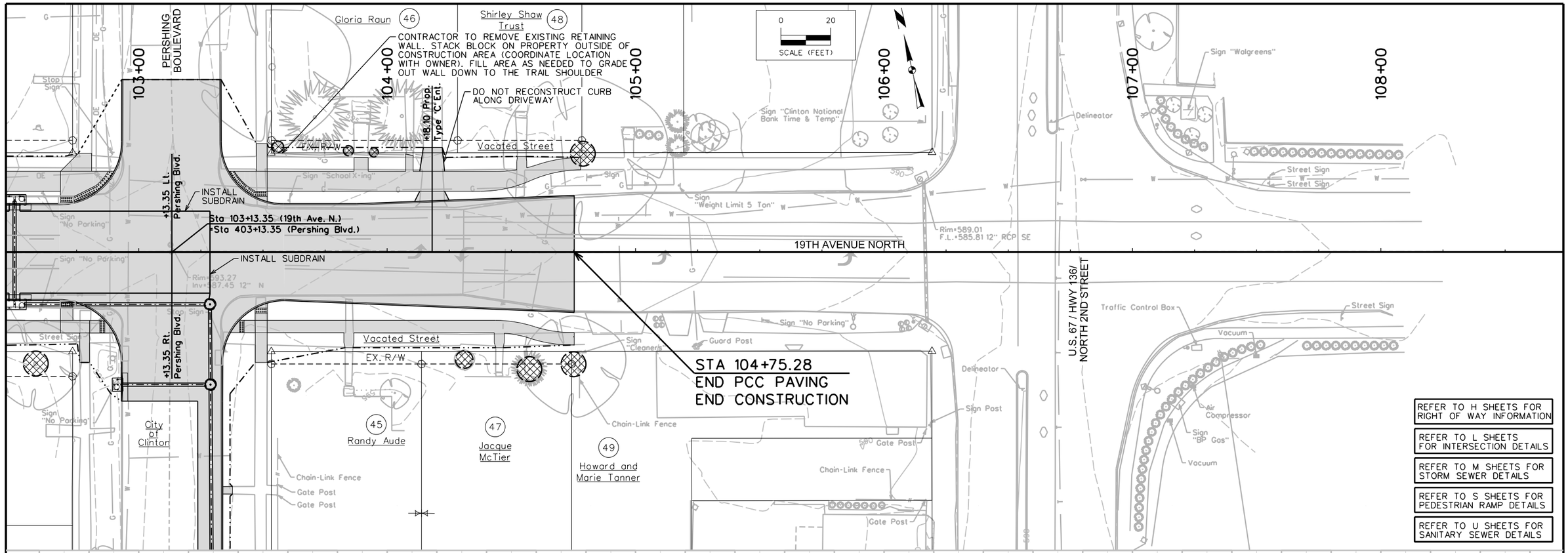


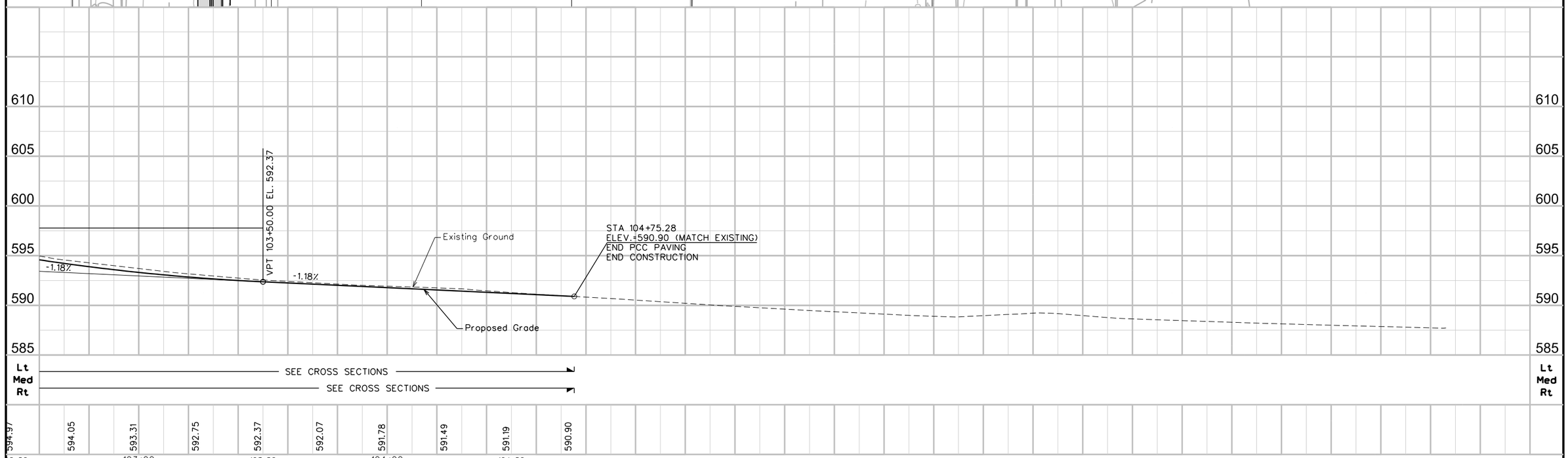
ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER D.5





ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	D.6





ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	D.7

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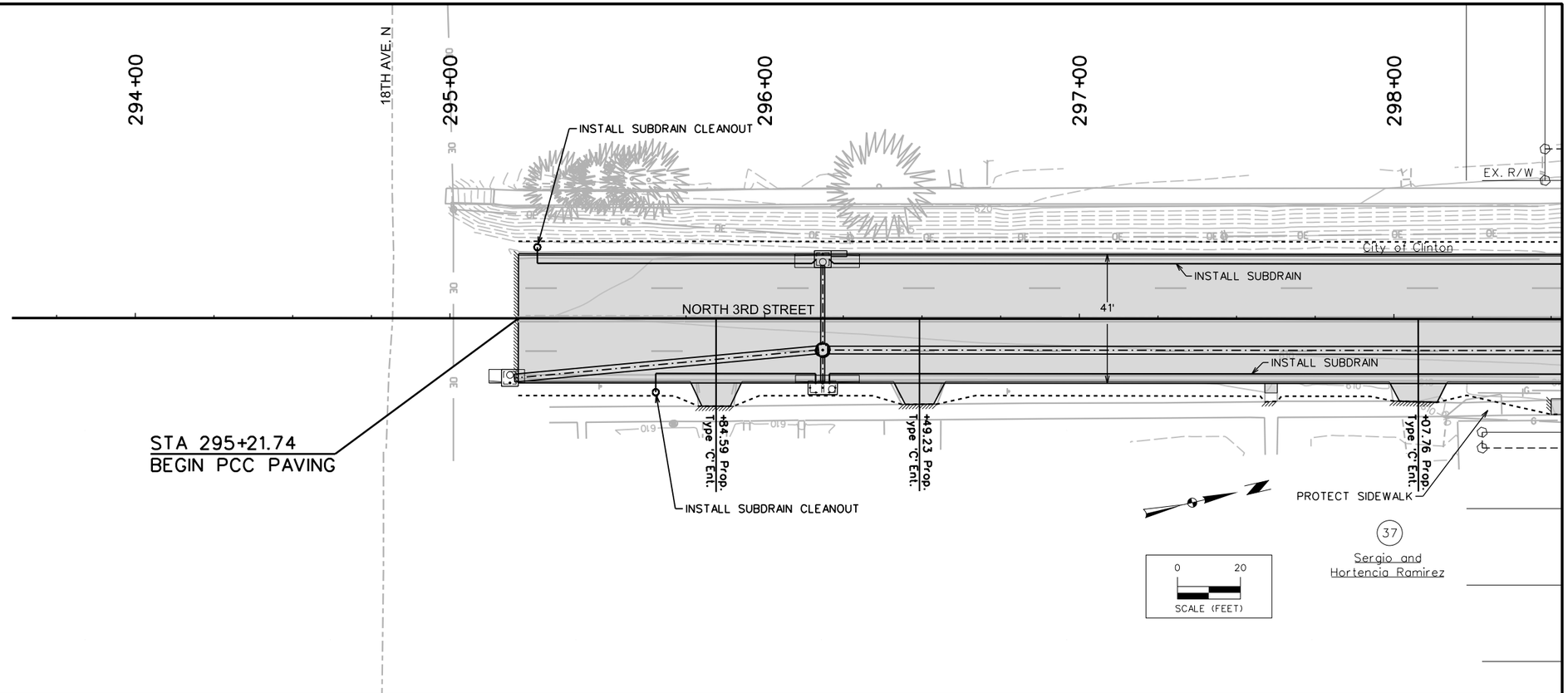
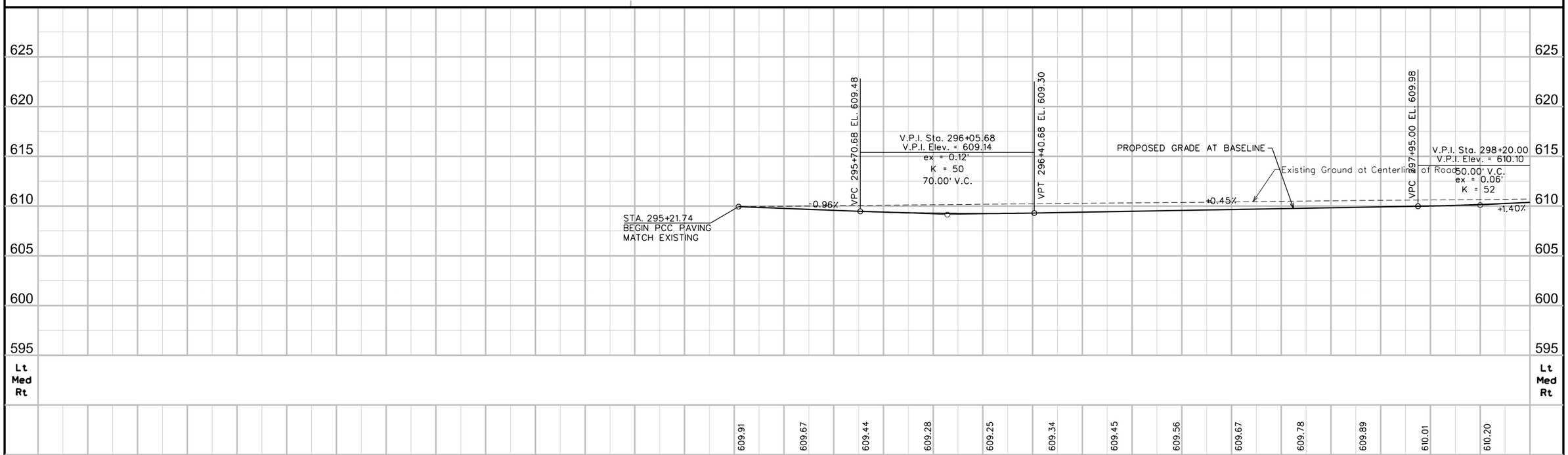


REFER TO H SHEETS FOR RIGHT OF WAY INFORMATION

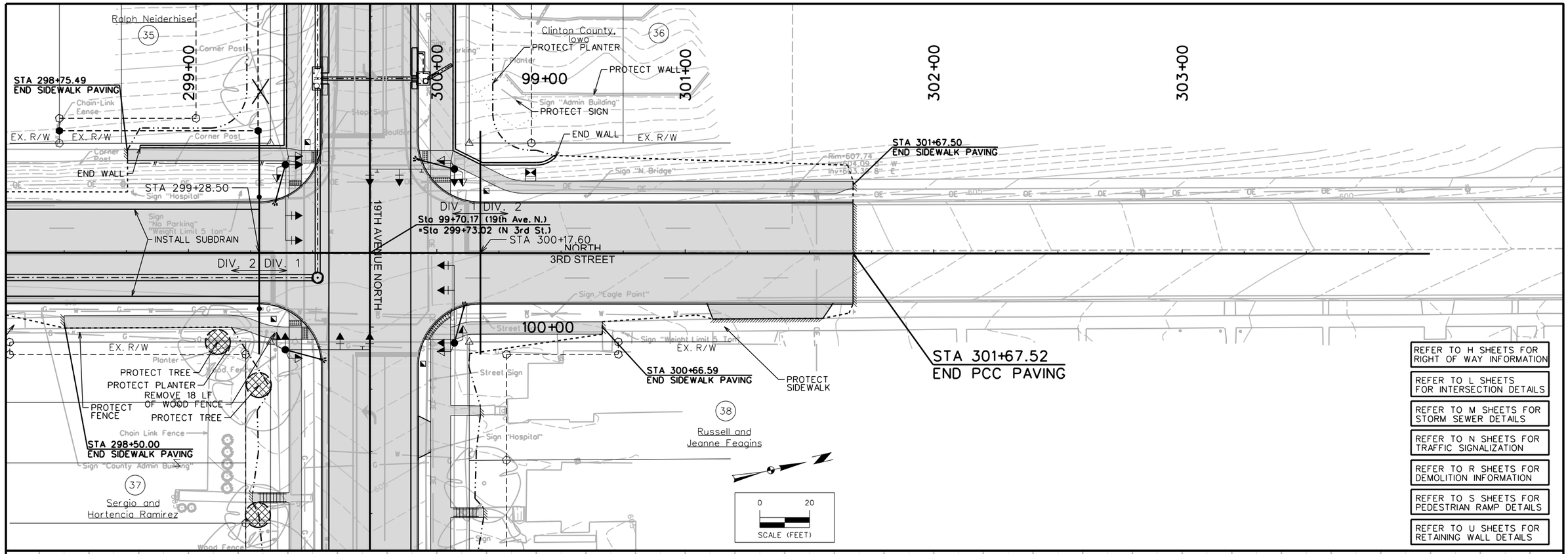
REFER TO L SHEETS FOR INTERSECTION DETAILS

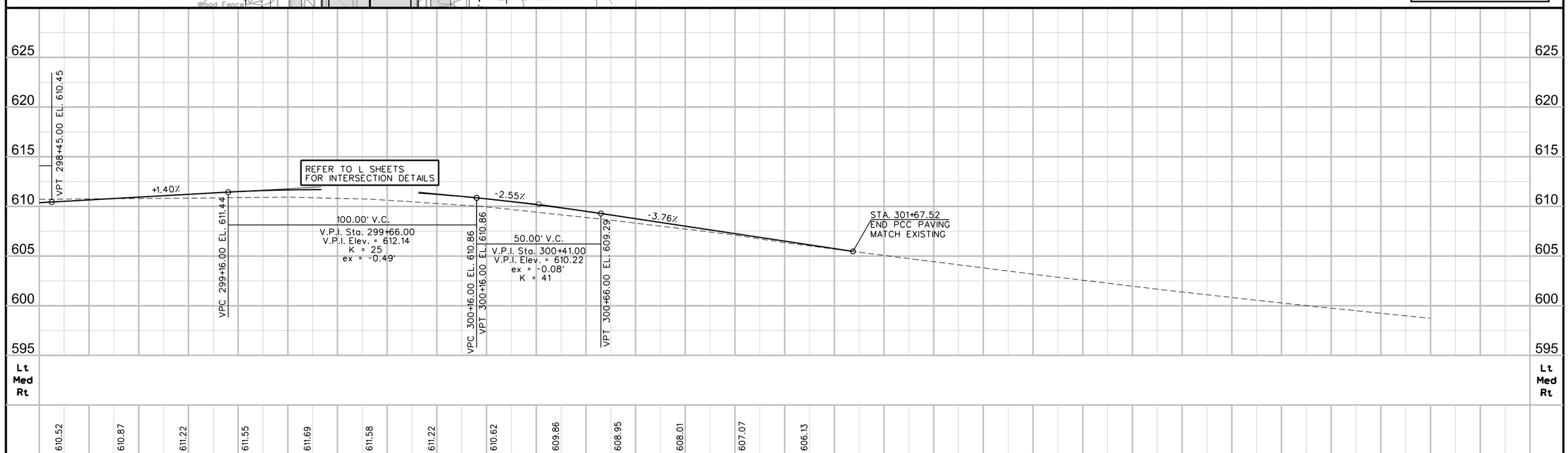
REFER TO M SHEETS FOR STORM SEWER DETAILS

REFER TO R SHEETS FOR DEMOLITION INFORMATION



ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	E.1





ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	E.2

398+00
399+00
400+00
401+00
402+00
403+00
404+00
18TH AVE. N
STA 398+68.07
BEGIN PCC
REMOVE AND REPLACE
CONTRACTOR TO VERIFY EXISTING CONDITIONS FOR REMOVAL LIMITS
44
Larry Qualls
EX. R/W
Eagle Point Realty, LLC
43
STA 402+53.33
BEGIN PCC PAVING
STA 402+68.90
19TH AVENUE NORTH
Sta 103+13.35 (19th Ave. N.)
=Sta 403+13.35 (Pershing Blvd.)
103+00
PERSHING BOULEVARD
DIV. 2 DIV. 1
10'
PROTECT EXISTING PAVEMENT
+49.99 Prop. Type 'C' Ent.
REMOVE AND REPLACE FIRST SIDEWALK PANEL
45
Randy Aude
Gloria Ruan
46
STA 403+82.82
END PCC PAVING
REMOVE AND REPLACE FIRST SIDEWALK PANEL
RE-ESTABLISH EXISTING GUTTER GRADES AND DRAINAGE
104+00
0 20
SCALE (FEET)

REFER TO H SHEETS FOR RIGHT OF WAY INFORMATION
REFER TO L SHEETS FOR INTERSECTION DETAILS
REFER TO M SHEETS FOR STORM SEWER DETAILS
REFER TO R SHEETS FOR DEMOLITION INFORMATION
REFER TO S SHEETS FOR PEDESTRIAN RAMP DETAILS

605
600
595
590
585
580
575
Lt Med Rt

V.P.I. Sta. 402+80.85
V.P.I. Elev. = 592.81
V.P.I. Sta. 402+94.05
V.P.I. Elev. = 592.84
V.P.I. Sta. 403+45.85
V.P.I. Elev. = 592.86
V.P.I. Sta. 403+33.05
V.P.I. Elev. = 592.60
STA. 402+53.33
BEGIN PCC PAVING
MATCH EXISTING
PROPOSED GRADE AT BASELINE
Existing Ground
-1.71%
+0.23%
+2.03%
-0.22%
REFER TO L SHEETS FOR INTERSECTION DETAILS
STA. 403+82.82
END PCC PAVING
MATCH EXISTING

592.91
592.96
592.76
592.85
592.80
401+00
401+50
402+00
402+50
403+00
403+50

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	E.3

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BEGINNING CHAIN 3RD DESCRIPTION
==========

POINT 99 N 696,732.67 E 2,543,142.26 STA 293+60.80

COURSE FROM 99 TO 100 N 13° 02' 28.61'' E DIST 200.00

POINT 100 N 696,927.52 E 2,543,187.39 STA 295+60.80

COURSE FROM 100 TO 101 N 13° 02' 28.61'' E DIST 412.21

POINT 101 N 697,329.10 E 2,543,280.41 STA 299+73.02

COURSE FROM 101 TO 102 N 13° 02' 28.61'' E DIST 426.69

POINT 102 N 697,744.78 E 2,543,376.70 STA 303+99.71

==========
ENDING CHAIN 3RD DESCRIPTION

BEGINNING CHAIN PERSH DESCRIPTION
==========

POINT 400 N 696,655.36 E 2,543,477.03 STA 397+01.08

COURSE FROM 400 TO 402 N 13° 00' 17.20'' E DIST 612.27

POINT 402 N 697,251.92 E 2,543,614.81 STA 403+13.35

COURSE FROM 402 TO 401 N 13° 00' 17.20'' E DIST 426.64

POINT 401 N 697,667.62 E 2,543,710.82 STA 407+39.99

==========
ENDING CHAIN PERSH DESCRIPTION

BEGINNING CHAIN 19TH DESCRIPTION
==========

POINT 10 N 698,854.28 E 2,535,306.23 STA 10+00.00

COURSE FROM 10 TO PC 19TH-1 S 33° 56' 37.56'' E DIST 1,610.43

CURVE DATA
x----------x

CURVE 19TH-1
P.I. STATION 30+84.34 N 697,125.15 E 2,536,470.08
DELTA = 58° 16' 58.08'' (LT)
DEGREE = 6° 44' 26.45''
TANGENT = 473.91
LENGTH = 864.64
RADIUS = 850.00
EXTERNAL = 123.19
LONG CHORD = 827.84
MID. ORD. = 107.59
P.C. STATION 26+10.43 N 697,518.29 E 2,536,205.46
P.T. STATION 34+75.07 N 697,143.56 E 2,536,943.63
C.C. N 697,992.92 E 2,536,910.61
BACK = S 33° 56' 37.56'' E
AHEAD = N 87° 46' 24.35'' E
CHORD BEAR = S 63° 05' 06.61'' E

COURSE FROM PT 19TH-1 TO PC 19TH-2 N 87° 46' 24.35'' E DIST 3,150.96

CURVE DATA
x----------x

CURVE 19TH-2
P.I. STATION 69+69.51 N 697,279.32 E 2,540,435.43
DELTA = 37° 54' 47.46'' (LT)
DEGREE = 5° 43' 46.48''
TANGENT = 343.48
LENGTH = 661.71
RADIUS = 1,000.00
EXTERNAL = 57.35
LONG CHORD = 649.70
MID. ORD. = 54.24
P.C. STATION 66+26.03 N 697,265.98 E 2,540,092.21
P.T. STATION 72+87.74 N 697,500.75 E 2,540,698.01
C.C. N 698,265.22 E 2,540,053.36
BACK = N 87° 46' 24.35'' E
AHEAD = N 49° 51' 36.89'' E
CHORD BEAR = N 68° 49' 00.62'' E

CURVE DATA
x----------x

CURVE 19TH-3
P.I. STATION 77+66.16 N 697,809.17 E 2,541,063.76
DELTA = 51° 08' 07.26'' (RT)
DEGREE = 5° 43' 46.48''
TANGENT = 478.43
LENGTH = 892.48
RADIUS = 1,000.00
EXTERNAL = 108.55
LONG CHORD = 863.15
MID. ORD. = 97.92
P.C. STATION 72+87.74 N 697,500.75 E 2,540,698.01
P.T. STATION 81+80.22 N 697,717.91 E 2,541,533.40
C.C. N 696,736.27 E 2,541,342.67
BACK = N 49° 51' 36.89'' E
AHEAD = S 79° 00' 15.84'' E
CHORD BEAR = N 75° 25' 40.52'' E

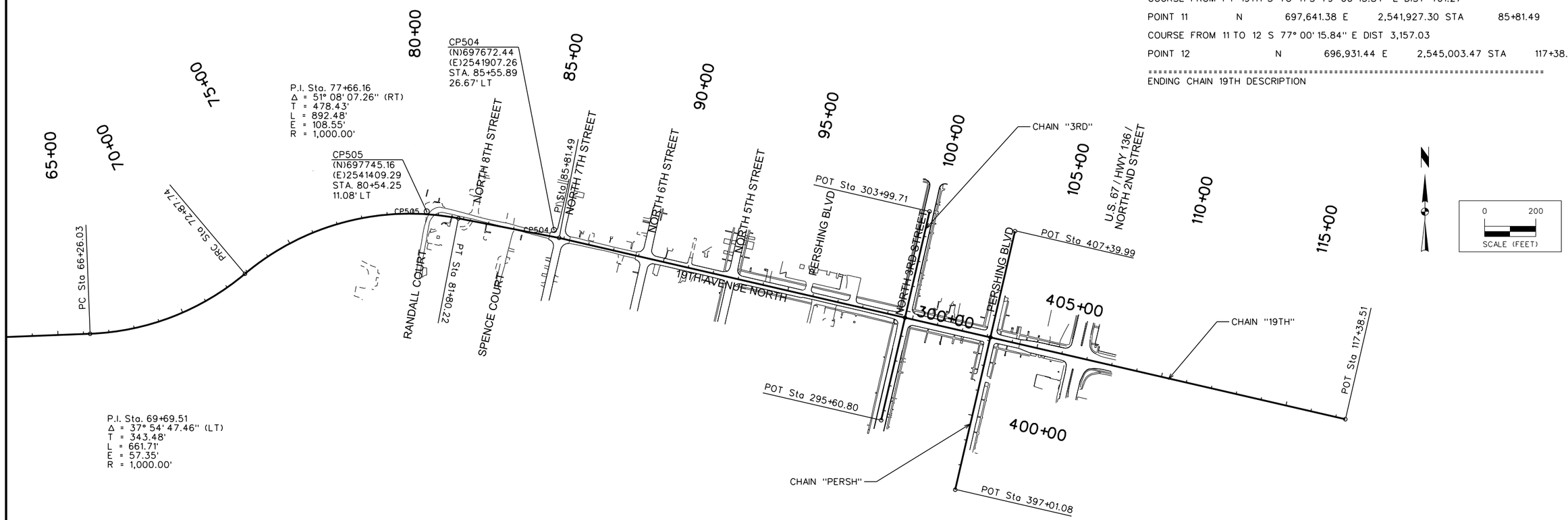
COURSE FROM PT 19TH-3 TO 11 S 79° 00' 15.84'' E DIST 401.27

POINT 11 N 697,641.38 E 2,541,927.30 STA 85+81.49

COURSE FROM 11 TO 12 S 77° 00' 15.84'' E DIST 3,157.03

POINT 12 N 696,931.44 E 2,545,003.47 STA 117+38.51

==========
ENDING CHAIN 19TH DESCRIPTION



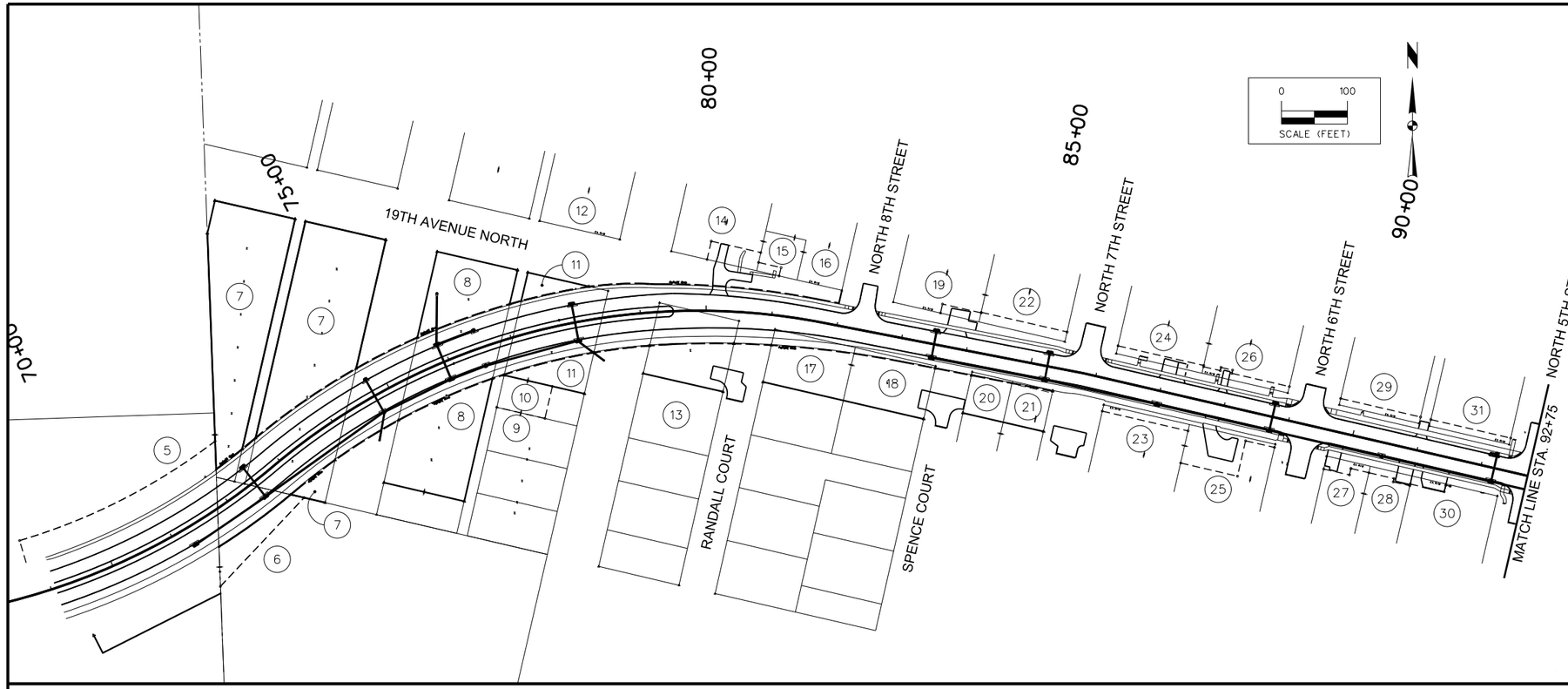
CONTROL POINTS

CP #504 - SET REBAR AT NW CORNER OF 7TH STREET AND 19TH STREET.

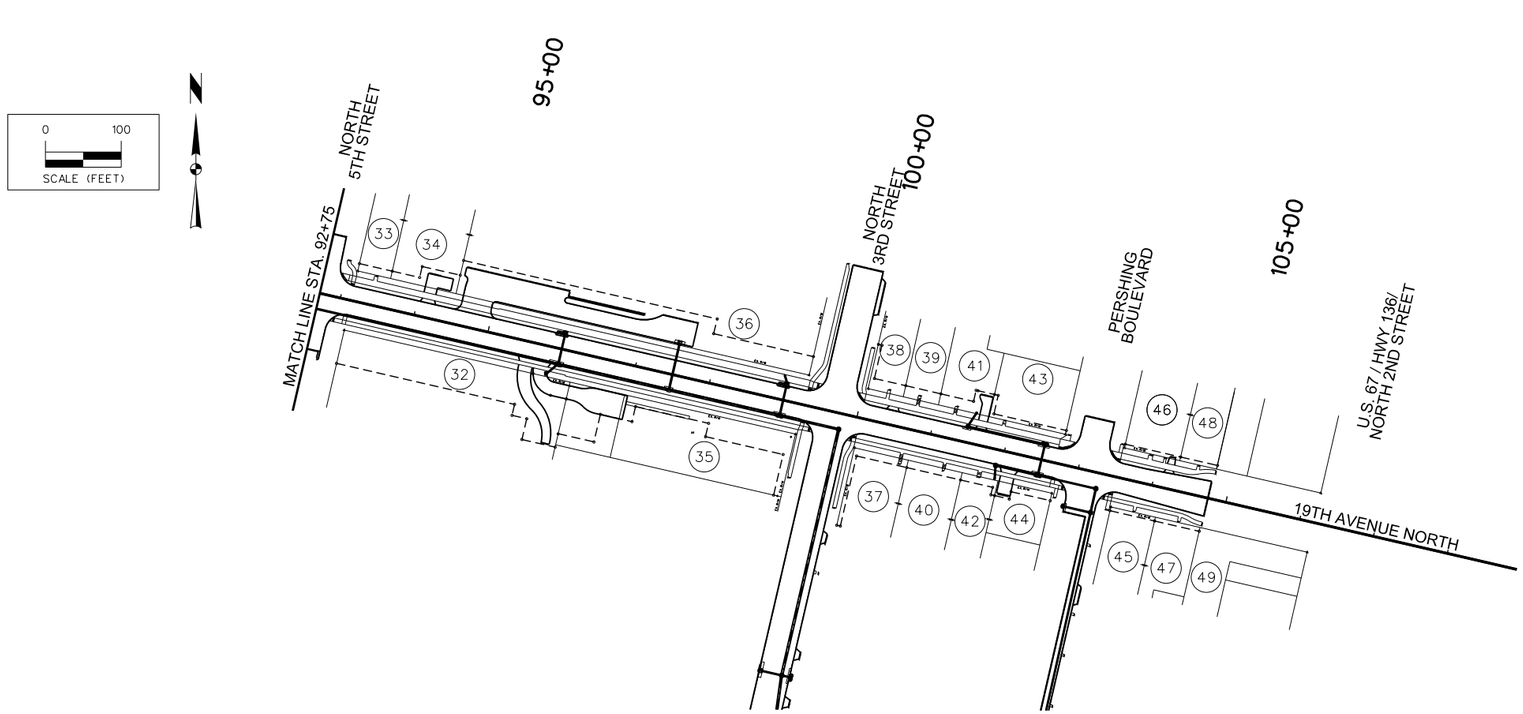
CP #505 - SET REBAR AT END OF 19TH STREET AND 10' EAST OF POWER POLE.

BENCHMARKS

BM #504 - SET REBAR AT NW CORNER OF 7TH STREET AND 19TH STREET.
ELEV. = 688.73



5 JANIS JOHNSON
6 PATRICK AND JULIE LONERGAN
7 JAMES AND GRANT WELLS AND LUANNA BIRKETT
8 JAMES AND GRANT WELLS AND LUANNA BIRKETT
9 GARY AND MARILYN BARNES
10 JAY RICE
11 JAMES AND GRANT WELLS AND LUANNA BIRKETT
12 JAMES AND GRANT WELLS AND LUANNA BIRKETT
13 JAMES AND GRANT WELLS AND LUANNA BIRKETT
14 MAURICE AND CARYL MILLER
15 DANIEL AND KAREN KNAPP
16 JAMES AND ELLEN LEITZEN
17 BANK OF AMERICA
18 DIANNE BENGSTON
19 BEVERLY MILLER AND DONALD PRICE
20 CHRISTOPHER AND JULIE HOLLAND
21 CHRISTOPHER AND JULIE HOLLAND
22 ROBERT AND DAWN GOODRIDGE
23 JOHN KANE AND PEGGY HILL KANE
24 MARK ROLSTON
25 JOHN AND LUANN LARSON
26 PATRICK MCNULTY
27 THOMAS AND NAN WALDORF
28 BOBBY AND DEBRA BELL
29 RAYMOND DROSTE
30 DENNIS AND DIANNA IVERSON
31 JUDITH LONG



32 DAVID AND BONNIE BARR
33 DONNA PETERS
34 LEE AND AMY STONEBROOK
35 RALPH NEIDERHISER
36 CLINTON COUNTY, IA
37 SERGIO AND HORTENCIA RAMIREZ
38 RUSSELL AND JEANNE FEAGINS
39 PAUL DAVIS AND RHONDA BORGMAN
40 SCOTT A. AND CHERYL A. BOOTH
41 RONALD AND NANCY JUIST
42 MARK MANGLER
43 EAGLE POINT REALTY, LLC
44 LARRY QUALLS
45 RANDY AUDE
46 GLORIA RAUN
47 JACQUE MCTIER
48 SHIRLEY SHAW TRUST
49 HOWARD AND MARIE TANNER

PARCEL MAP

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER H.1

68+00
69+00
70+00
71+00
72+00
73+00
74+00

STA 68+75
℄ 85.00' LT

P.I. Sta. 69+69.51
Δ = 37° 54' 47.46" (LT)
T = 343.48'
L = 661.71'
E = 57.35'
R = 1,000.00'

STA. 72+40 ±P
℄ 85.00' LT

Janis Johnson (5)

James and Grant Wells
and Luanna Birkett (7)

City
of Clinton

PC 72+87.74
℄ 50.00' LT

STA. 72+94 ±P
℄ 50.00' LT

STA. 72+67 ±P
℄ 50.00' LT

FUTURE R/W

PRC Sta. 72+87.74

STA 69+07.14
BEGIN PCC PAVING
BEGIN CONSTRUCTION

1'
5'
17'
19'
8'
8'
19'
12'
10'
1'

19TH AVENUE NORTH

FUTURE R/W

STA. 73+69 ±P
℄ 50.00' RT

STA. 72+80 ±P
℄ 50.00' RT

James and Grant Wells
and Luanna Birkett (7)

City of Clinton

PC 72+87.74
℄ 50.00' RT

STA. 69+36.84
℄ 86.7' RT ±EX.R/W

Janis Johnson (5)

STA. 71+20±P
℄ 111.5' RT

STA. 72+93 ±P
℄ 66.59' RT

STA. 73+15 ±P
℄ 92.64' RT PROP. COR.

STA. 69+40.00
℄ 116.5' RT

Patrick and Julie Lonergan (6)

STA. 71+25 ±P
℄ 102.25' RT

STA. 71+21 ±P
℄ 110.00' RT

REFER TO D SHEETS
FOR ROADWAY DETAILS

REFER TO L SHEETS
FOR INTERSECTION DETAILS

REFER TO M SHEETS FOR
STORM SEWER DETAILS

REFER TO R SHEETS FOR
DEMOLITION INFORMATION

0 20
SCALE (FEET)

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	H.2

STA. 76+39 ±℄
℄ 159.40' LT PROP. COR.

STA. 77+35 ±℄
℄ 96.53' LT PROP. COR.

STA. 77+29 ±℄
℄ 50.00' LT

STA. 77+12 ±℄
℄ 50.00' LT

STA. 77+48 ±℄
℄ 89.26' LT PROP. COR.

James and Grant Wells
and Luanna Birkett
(12)

EX. R/W

James and Grant Wells
and Luanna Birkett
(7)

City of Clinton

STA. 75+70 ±℄
℄ 50.00' LT

CONSTRUCTION
LIMITS (TYP.)

James and Grant Wells
and Luanna Birkett
(8)

City of Clinton

(11)
James and Grant Wells
and Luanna Birkett

RANDAL
COURT

STA. 74+71 ±℄
℄ 50.00' LT

74+00

75+00

76+00

77+00

78+00

79+00

PRC 78+09.82
℄ 49.00' LT

STA. 78+29 ±℄
℄ 50.00' LT

PRC 79+36.87
℄ 40.71' LT

PRC 79+15.75
℄ 43.55' LT

FUTURE R/W

1'
5'
17'
19'
8' 19TH AVENUE NORTH
8'
19'
12'
10'
1'

FUTURE R/W

FUTURE R/W

STA. 76+53 ±℄
℄ 50.00' RT

STA.77+43.03
℄ 87.25' RT ±℄

STA. 76+73 ±℄
℄ 50.00' RT

STA. 78+21 ±℄
℄ 50.00' RT

STA. 74+89 ±℄
℄ 50.00' RT

STA. 73+69 ±℄
℄ 50.00' RT

(10)
Jay Rice

STA. 79+10 ±℄
℄ 50.00' RT

STA. 77+93 ±℄
℄ 108.88' RT

City of Clinton

STA. 74+15 ±℄
℄ 119.97' RT PROP. COR.

STA.77+16.86
℄ 131.48' RT ±℄

STA. 79+35 ±℄
℄ 50.00' RT PROP. COR.

PT 79+47.74
℄ 50.00' RT

(13)
James and Grant Wells
and Luanna Birkett

City
of Clinton

STA. 76+44 ±EX.R/W
℄ 93.20' RT

(9)
Gary and Marilyn Barnes

STA. 78+96.04 ±EX.R/W
℄ 91.18' RT

James and Grant Wells
and Luanna Birkett
(8)

CITY OF CLINTON

STA. 75+25 ±℄
℄ 205.01' RT PROP. COR.

REFER TO D SHEETS
FOR ROADWAY DETAILS

REFER TO L SHEETS
FOR INTERSECTION DETAILS

REFER TO M SHEETS FOR
STORM SEWER DETAILS

REFER TO R SHEETS FOR
DEMOLITION INFORMATION

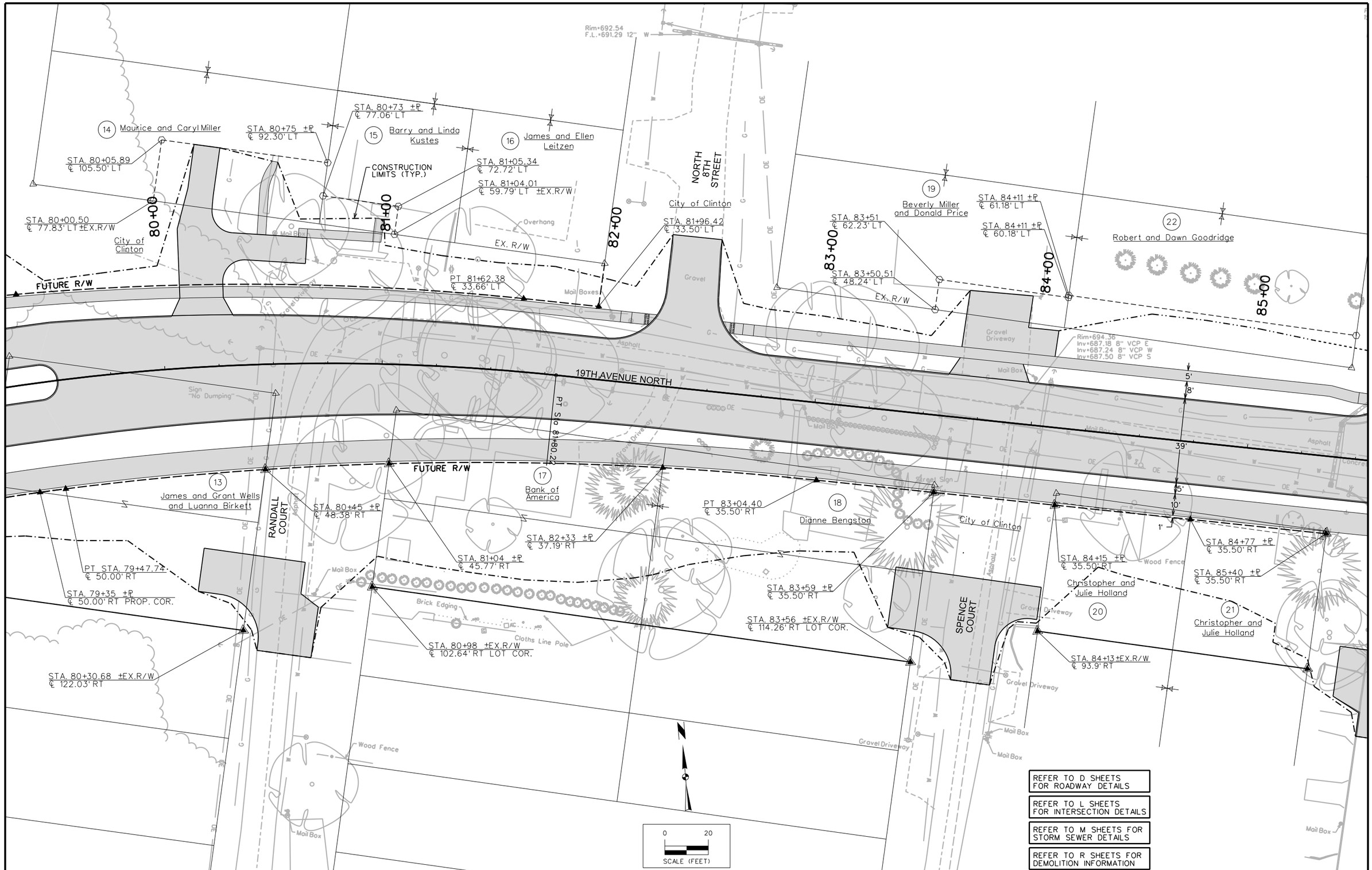
0 20
SCALE (FEET)

Wayne Lind &
Laurence W. Lind Jr
& Vincent Attaway

Gravel

STA. 80+30.68 ±EX.R/W
℄ 122.03' RT

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	H.3



ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	H.4

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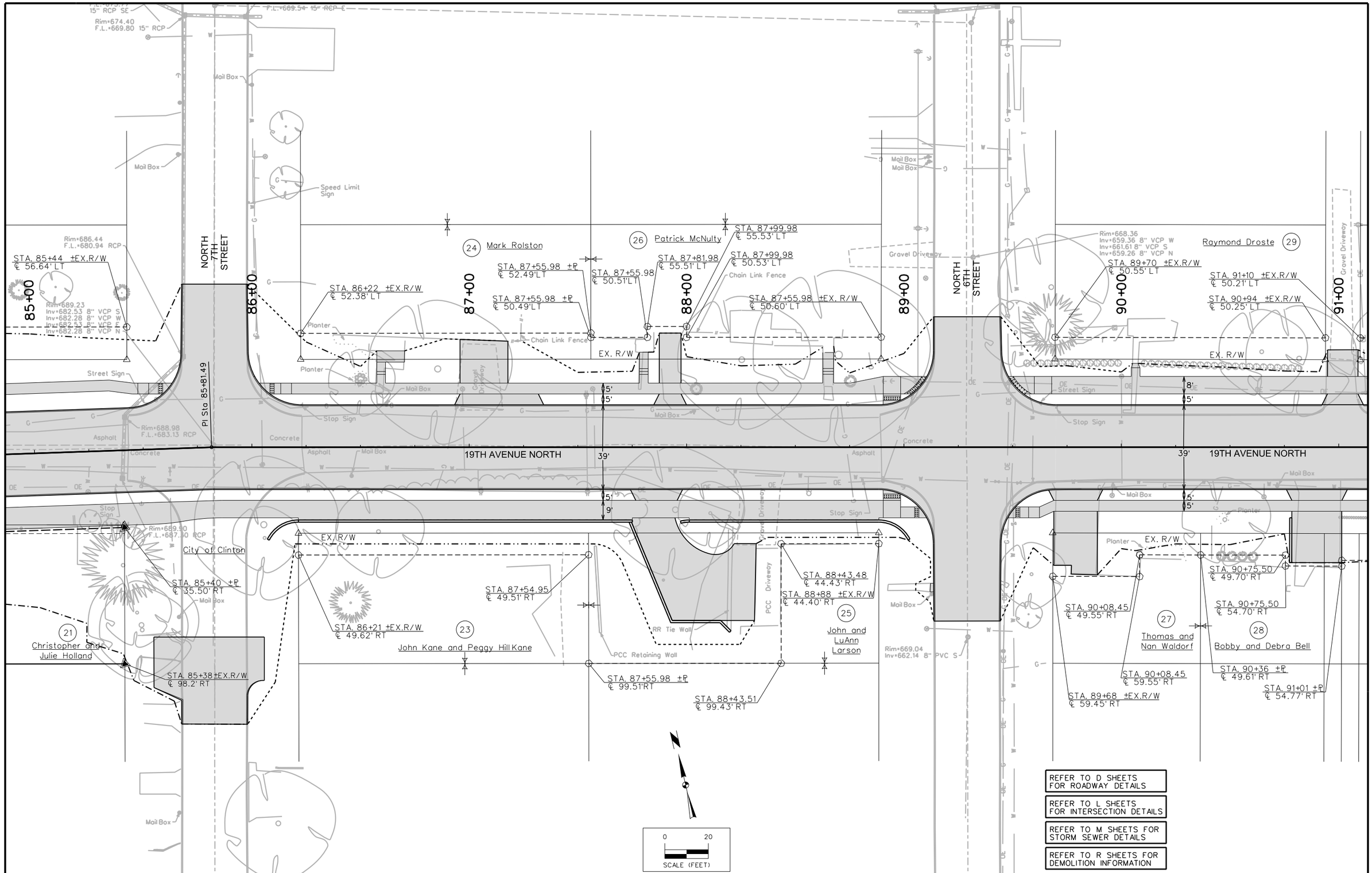


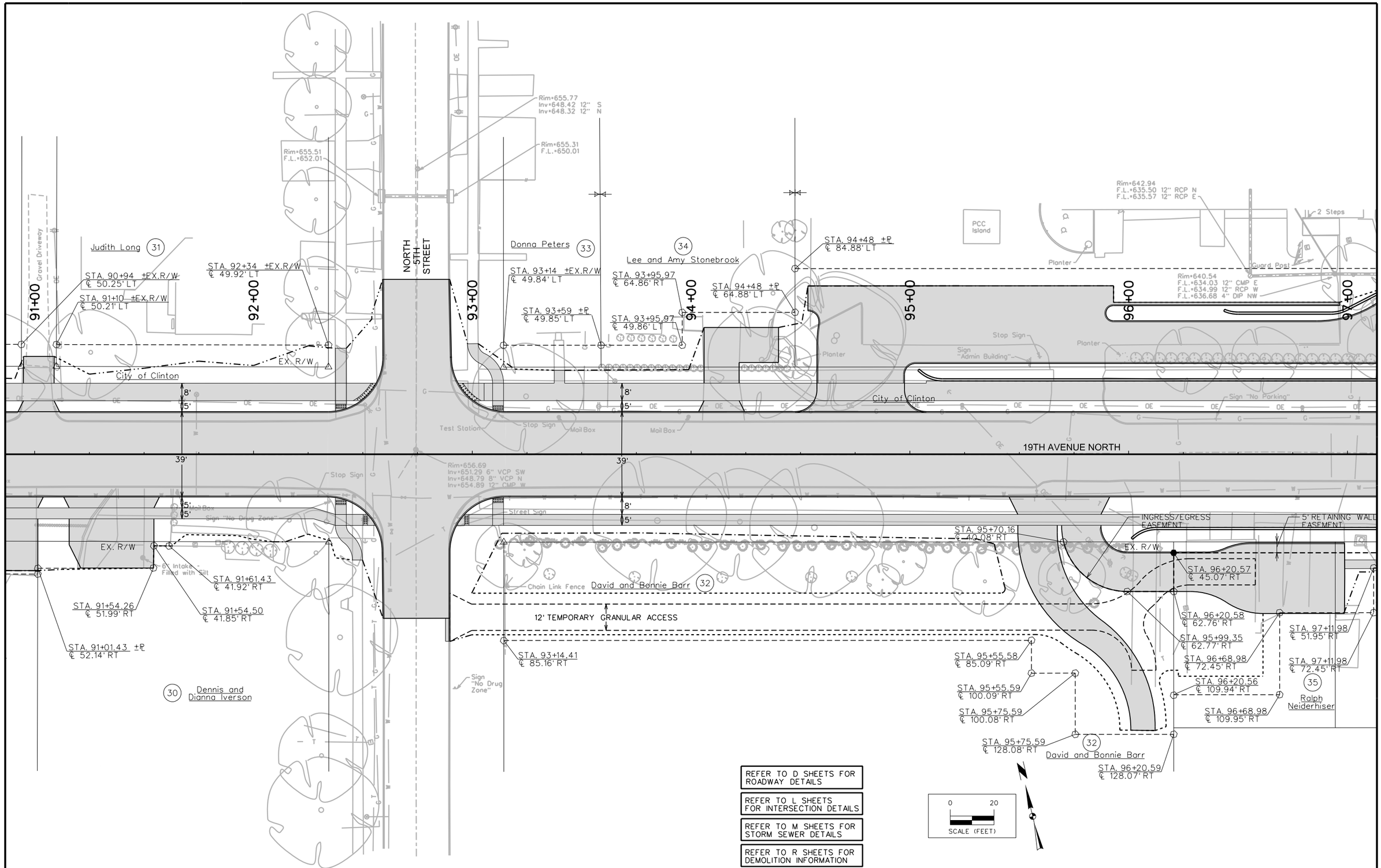
REFER TO D SHEETS FOR ROADWAY DETAILS

REFER TO L SHEETS FOR INTERSECTION DETAILS

REFER TO M SHEETS FOR STORM SEWER DETAILS

REFER TO R SHEETS FOR DEMOLITION INFORMATION

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	H.5



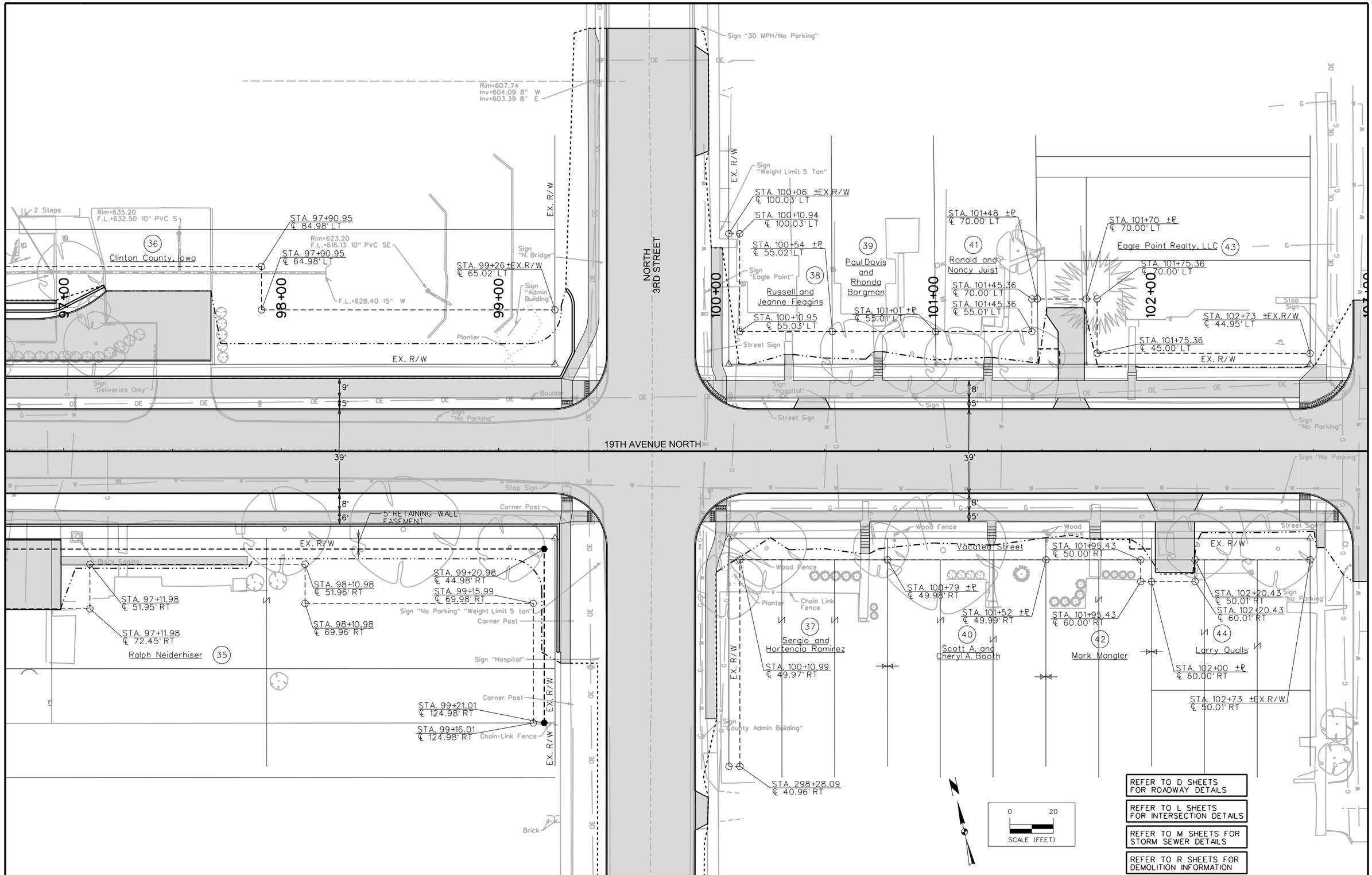
REFER TO D SHEETS FOR ROADWAY DETAILS

REFER TO L SHEETS FOR INTERSECTION DETAILS

REFER TO M SHEETS FOR STORM SEWER DETAILS

REFER TO R SHEETS FOR DEMOLITION INFORMATION

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	H.6



ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	H.7

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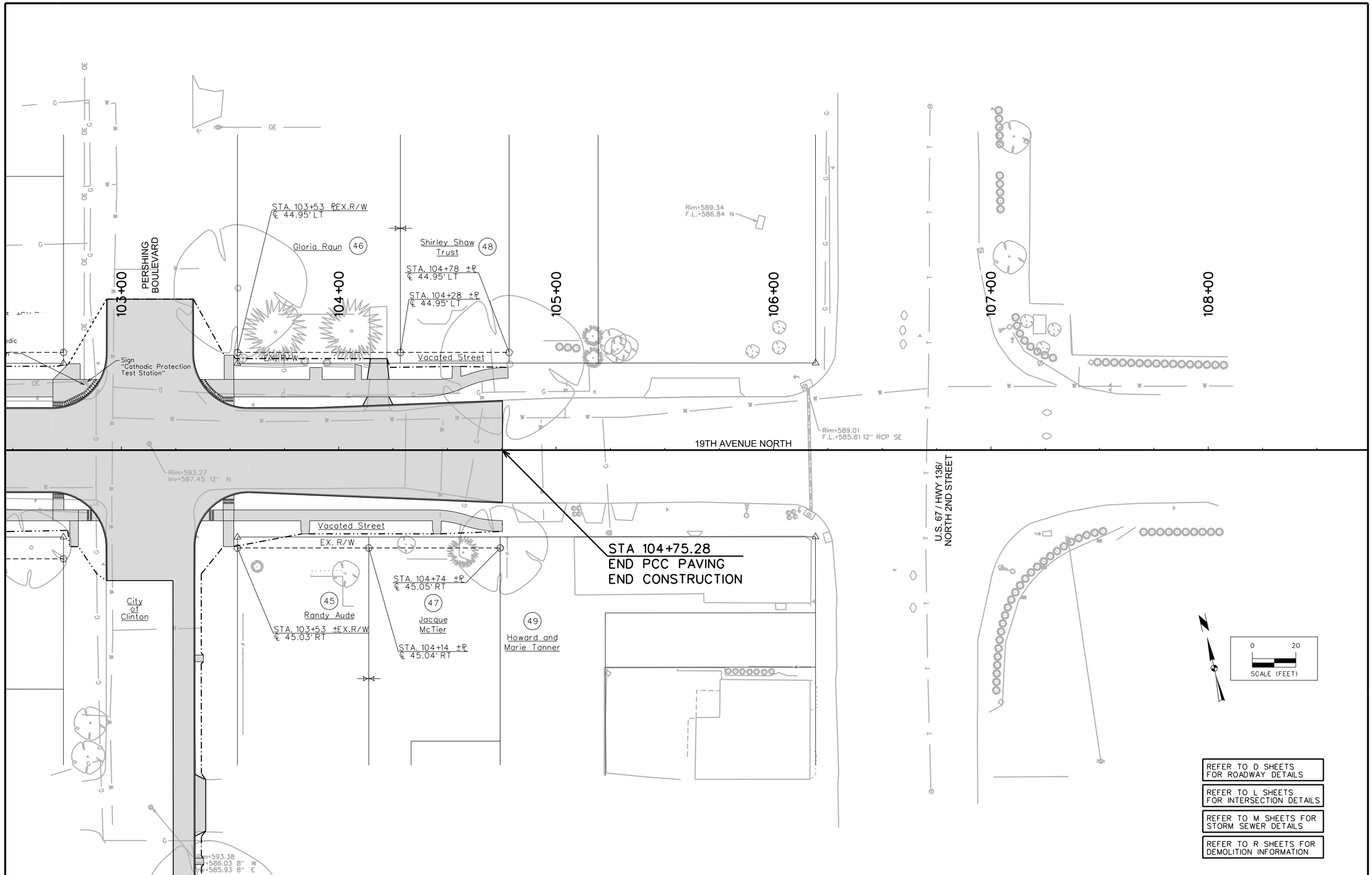


ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	H.8

GENERAL STAGING NOTES:

1. ACCESS TO PROPERTY OWNERS AND BUSINESSES MUST BE MAINTINAED THROUGHOUT CONSTRUCTION.
2. COORDINATE STAGING SCHEDULE WITH ENGINEER AND CITY THROUGHOUT CONSTRUCTION.
3. TRAFFIC CONTROL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE TC SERIES OF THE STANDARD ROAD PLANS AS REFERENCED IN THE DRAWINGS AND ON THE J SHEETS OF THE TRAFFIC CONTROL DETAILS INCLUDED IN THE PLANS.
4. COVER ALL PERMANENT SIGNING THAT CONVEYS A MESSAGE CONTRARY TO THE MESSAGE OF THE TEMPORARY SIGNING AND NOT APPLICABLE TO THE WORKING CONDITIONS WHEN DIRECTED BY THE ENGINEER OR OWNER.
5. CLOSE PEDESTRIAN ROUTES DURING STAGED CONSTRUCTION. INCLUDE A TYPE II OR TYPE III BARRICADE, AS NEEDED BASED ON THE WIDTH OF THE EXISTING PATH, MEETING THE REQUIREMENT OF NCHRP REPORT 350 ALONG THE ENTIRE WIDTH OF THE EXISTING PATH. PROVIDE 10 CALENDAR DAYS ADVANCED NOTIFICATION OF A PEDESTRIAN PATH CLOSURE TO THE IOWA DEPARTMENT OF THE BLIND (Richard.sorey@blind.state.ia.us), THE NATIONAL FEDERATION OF THE BLIND OF IOWA (nfbiowa@questoffice.net), THE CITY OF CLINTON, AND THE PROJECT ENGINEER.

STAGE 1

STAGE 1 CONSTRUCTION:
STAGE 1 INCLUDES ALL EARTHWORK, UTILITY, AND PAVEMENT FROM BEGINNING OF PROJECT (BOP) TO APPROXIMATELY STA 80+00 AND FROM APPROXIMATELY STA 100+00 TO END OF PROJECT (EOP). WORK WITHIN THIS STAGE INCLUDES: PLACE EROSION CONTROL, PRIVATE UTILITY COORDINATION AND RELOCATIONS, PAVEMENT REMOVAL, OTHER MISCELLANEOUS REMOVALS, EARTHWORK, STORM SEWER MAIN AND STRUCTURES, SUBGRADE PREPARATION, PLACE MODIFIED SUBBASE, INSTALL SUBDRAINS, PAVE MAINLINE 19TH AVENUE N, PAVE PERSHING BOULEVARD PATCH, PAVE TRAIL AND SIDEWALK, CONSTRUCT STEPS, PAVE DRIVEWAY ACCESSES, FINAL GRADE AND SEED/MULCH OR INSTALL SODDING.

STAGE 1 TRAFFIC CONTROL AND ACCESS MANAGEMENT:
1. CLOSE 19TH AVENUE NORTH AT BOP (FOR ENTIRETY OF PROJECT) AND AT APPROXIMATELY 80+00.
2. CLOSE 19TH AVENUE NORTH AT EOP AND EAST OF 3RD STREET.
3. CLOSE PERSHING BOULEVARD NORTH OF 18TH AVENUE NORTH AND JUST NORTH OF 19TH AVENUE NORTH.
4. MAINTAIN FULL USE OF 3RD STREET DURING THIS STAGE. NO ROADWAY OR LANE CLOSURES ARE ALLOWED ON 3RD STREET DURING THIS STAGE UNLESS APPROVED BY THE ENGINEER.
5. PROVIDE DIRECTIONAL SIGNAGE FOR CLINTON COUNTY ADMINISTRATION BUILDING TRAFFIC TO BE ROUTED TO NORTH ACCESS ALONG 20TH AVENUE NORTH.
6. PROVIDE TEMPORARY ACCESS TO LOCAL PROPERTY OWNERS ALONG 19TH AVENUE NORTH AND PERSHING BOULEVARD. PERFORM CONSTRUCTION IN STAGES AS REQUIRED TO PROVIDE ACCESS.
7. MAINTAIN ACCESS TO DRIVEWAYS AND ON STREET PARKING THROUGHOUT CONSTRUCTION, EXCEPT DURING PAVING AND CURING OPERATIONS. ACCESS SHOULD BE PROVIDED FOLLOWING ACCEPTABLE MATERIAL TESTING REPORTS.

STAGE 2

STAGE 2 CONSTRUCTION:
STAGE 2 INCLUDES ALL EARTHWORK, UTILITY, AND PAVEMENT ALONG 3RD STREET. WORK WITHIN THIS STAGE INCLUDES: PLACE EROSION CONTROL, PRIVATE UTILITY COORDINATION AND RELOCATIONS, PAVEMENT REMOVAL, OTHER MISCELLANEOUS REMOVALS, EARTHWORK, STORM SEWER MAIN AND STRUCTURES, SANITARY SEWER CONSTRUCTION, INSTALLATION OF TRAFFIC SIGNALIZATION, SUBGRADE PREPARATION, PLACE MODIFIED SUBBASE, INSTALL SUBDRAINS, PAVE 3RD STREET THROUGH 19TH AVENUE NORTH, PAVE DRIVEWAY AND ALLEY ACCESS APRONS, FINAL GRADE AND INSTALL SODDING.

STAGE 2 TRAFFIC CONTROL AND ACCESS MANAGEMENT:
1. CLOSE 3RD STREET AT 18TH AVENUE NORTH AND AT 20TH AVENUE NORTH FOR LOCAL TRAFFIC ONLY.
2. CLOSE 19TH AVENUE NORTH TO LOCAL TRAFFIC ONLY AT 5TH STREET AND AT PERSHING BOULEVARD.
3. PROVIDE DETOUR SIGNAGE AS SHOWN IN THE PLANS.
4. PROVIDE DIRECTIONAL SIGNAGE FOR CLINTON COUNTY ADMINISTRATION BUILDING TRAFFIC TO BE ROUTED TO NORTH ACCESS ALONG 20TH AVENUE NORTH.
5. PROVIDE TEMPORARY ACCESS TO LOCAL PROPERTY OWNERS ALONG 19" AVENUE NORTH AND 3RD STREET. PERFORM CONSTRUCTION IN STAGES AS REQUIRED TO PROVIDE ACCESS.
6. ACCESS TO DRIVEWAYS AND ON STREET PARKING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION, EXCEPT DURING PAVING AND CURING OPERATIONS. ACCESS SHOULD BE PROVIDED FOLLOWING ACCEPTABLE MATERIAL TESTING REPORTS.

STAGE 3

STAGE 3 CONSTRUCTION:
STAGE 3 INCLUDES ALL EARTHWORK AND UTILITY ON THE SOUTH SIDE OF 19" AVENUE FROM APPROXIMATELY STA 80+00 TO NORTH 3RD STREET. WORK WITHIN THIS STAGE INCLUDES: PLACE EROSION CONTROL, PRIVATE UTILITY COORDINATION AND RELOCATIONS, PAVEMENT REMOVAL, HOUSE/STRUCTURE REMOVAL, OTHER MISCELLANEOUS REMOVALS, EARTHWORK, STORM SEWER MAIN AND STRUCTURES, SANITARY SEWER CONSTRUCTION, AND RETAINING WALL CONSTRUCTION.

STAGE 3 TRAFFIC CONTROL AND ACCESS MANAGEMENT:
1. CLOSE 19TH AVENUE NORTH AT 3RD STREET.
2. CLOSE SIDE STREETS AT 5TH, 6TH, 7TH, SPENCE COURT, AND RANDALL COURT TO LOCAL TRAFFIC ONLY AT 18TH AVENUE NORTH AND AT 20TH AVENUE NORTH.
3. MAINTAIN FULL USE OF 3RD STREET DURING THIS STAGE. NO ROADWAY OR LANE CLOSURES ARE ALLOWED ON 3RD STREET DURING THIS STAGE UNLESS APPROVED BY THE ENGINEER
4. PROVIDE DIRECTIONAL SIGNAGE FOR CLINTON COUNTY ADMINISTRATION BUILDING TRAFFIC TO BE ROUTED TO NORTH ACCESS ALONG 20TH AVENUE NORTH.
5. PROVIDE TEMPORARY ACCESS TO LOCAL PROPERTY OWNERS ALONG 19TH AVENUE NORTH FROM SIDE STREETS. NOTIFY PROPERTY OWNERS OF TEMPOARY ACCESS LOCATIONS PRIOR TO PERFORMING THE CLOSURES. PROVIDE TEMPORARY GRANULAR WIDENING AS REQUIRED TO MAINTAIN ACCESS. PERFORM CONSTRUCTION IN STAGES AS REQUIRED TO PROVIDE ACCESS.

STAGE 4

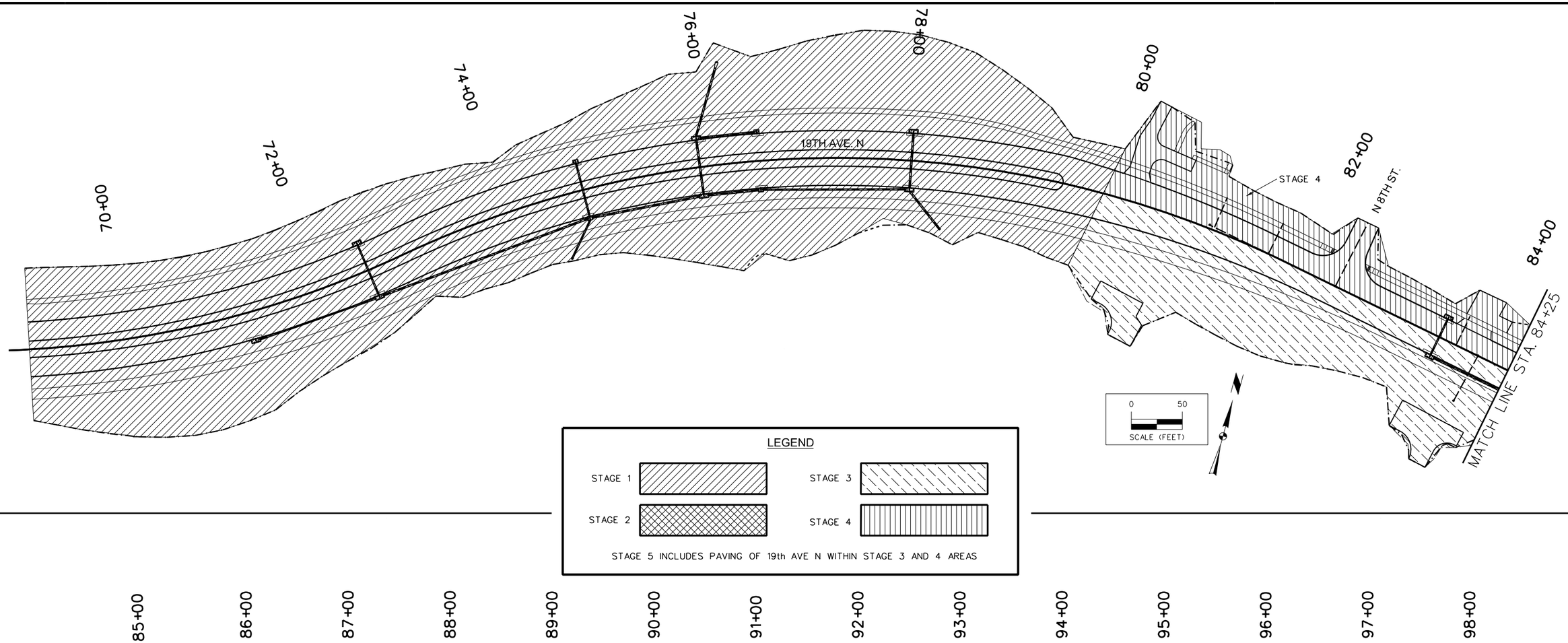
STAGE 4 CONSTRUCTION:
STAGE 4 INCLUDES ALL EARTHWORK AND UTILITY ON THE NORTH SIDE OF 19TH AVENUE NORTH FROM APPROXIMATELY STA 80+00 TO 3RD STREET. WORK WITHIN THIS STAGE INCLUDES: PLACE EROSION CONTROL, PRIVATE UTILITY COORDINATION AND RELOCATIONS, PAVEMENT REMOVAL, HOUSE/STRUCTURE REMOVAL, OTHER MISCELLANEOUS REMOVALS, EARTHWORK, STORM SEWER MAIN AND STRUCTURES, SANITARY SEWER CONSTRUCTION, AND RETAINING WALL CONSTRUCTION.

STAGE 4 TRAFFIC CONTROL AND ACCESS MANAGEMENT:
1. CLOSE 19TH AVENUE NORTH AT 3RD STREET.
2. CLOSE SIDE STREETS AT 5TH, 6TH, 7TH, SPENCE COURT, AND RANDALL COURT TO LOCAL TRAFFIC ONLY AT 18TH AVENUE NORTH AND AT 20TH AVENUE NORTH.
3. MAINTAIN FULL USE OF 3RD STREET DURING THIS STAGE. NO ROADWAY OR LANE CLOSURES ARE ALLOWED ON 3RD STREET DURING THIS STAGE UNLESS APPROVED BY THE ENGINEER.
4. PROVIDE DIRECTIONAL SIGNAGE FOR CLINTON COUNTY ADMINISTRATION BUILDING TRAFFIC TO BE ROUTED TO NORTH ACCESS ALONG 20TH AVENUE NORTH.
5. PROVIDE TEMPORARY ACCESS TO LOCAL PROPERTY OWNERS ALONG 19TH AVENUE NORTH FROM SIDE STREETS. NOTIFY PROPERTY OWNERS OF TEMPOARY ACCESS LOCATIONS PRIOR TO PERFORMING THE CLOSURES. PROVIDE TEMPORARY GRANULAR WIDENING AS REQUIRED TO MAINTAIN ACCESS. PERFORM CONSTRUCTION IN STAGES AS REQUIRED TO PROVIDE ACCESS.

STAGE 5

STAGE 5 CONSTRUCTION:
STAGE 5 INCLUDES ALL PAVING WORK ALONG 19TH AVENUE NORTH FROM APPROXIMATELY STA 80+00 TO 3RD STREET. WORK WITHIN THIS STAGE INCLUDES: ROADWAY GRADING, SUBGRADE PREPARATION, PLACE MODIFIED SUBBASE, INSTALL SUBDRAIN, PAVE MAINLINE 19TH AVENUE NORTH IN STAGES WHILE MAINTAINING LOCAL ACCESS TO PROPERTIES, PAVE SIDE STREET INTERSECTIONS, PAVE TRAIL AND SIDEWALK, PAVE PEDESTRIAN RAMPS, PAVE PARKING LOT AND DRIVEWAY ACCESSES, FINAL GRADE AND INSTALL SODDING.

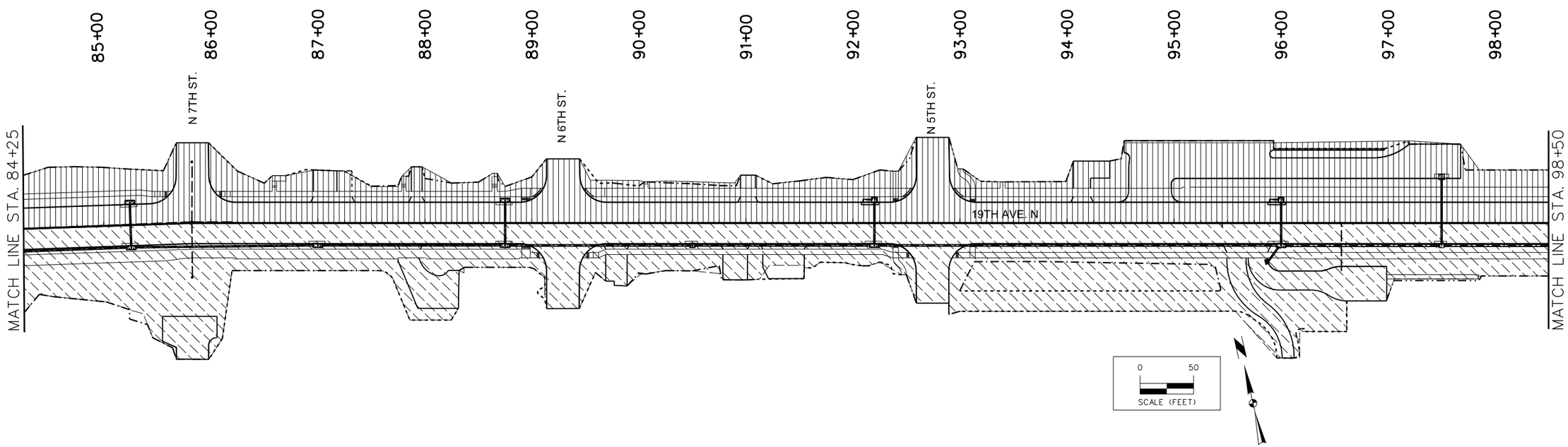
STAGE 5 TRAFFIC CONTROL AND ACCESS MANAGEMENT:
1. CLOSE 19TH AVENUE NORTH AT 3RD STREET.
2. CLOSE SIDE STREETS AT 5TH, 6TH, 7TH, SPENCE COURT, AND RANDALL COURT TO LOCAL TRAFFIC ONLY AT 18TH AVENUE NORTH AND AT 20TH AVENUE NORTH.
3. MAINTAIN FULL USE OF 3RD STREET DURING THIS STAGE. NO ROADWAY OR LANE CLOSURES ARE ALLOWED ON 3RD STREET DURING THIS STAGE UNLESS APPROVED BY THE ENGINEER.
4. PROVIDE DIRECTIONAL SIGNAGE FOR CLINTON COUNTY ADMINISTRATION BUILDING TRAFFIC TO BE ROUTED TO NORTH ACCESS ALONG 20TH AVENUE NORTH.
5. PROVIDE TEMPORARY ACCESS TO LOCAL PROPERTY OWNERS ALONG 19TH AVENUE NORTH. PERFORM CONSTRUCTION IN STAGES AS REQUIRED TO PROVIDE ACCESS.
6. ACCESS TO DRIVEWAYS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION, EXCEPT DURING PAVING AND CURING OPERATIONS. ACCESS SHOULD BE PROVIDED FOLLOWING ACCEPTABLE MATERIAL TESTING REPORTS.
7. ANY CONCRETE REMOVED MUST BE REPLACED PRIOR TO WINTER OF THE SAME CALENDAR YEAR.
8. 19TH AVENUE NORTH FROM N 3RD STREET TO N 7TH STREET SHALL BE PAVED BACK THE SAME CALENDAR YEAR AS THE EARTHWORK AND SEWER EXCAVATION OCCURS.



LEGEND

STAGE 1 | STAGE 2 | STAGE 3 | STAGE 4

STAGE 5 INCLUDES PAVING OF 19th AVE N WITHIN STAGE 3 AND 4 AREAS



ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER J.2

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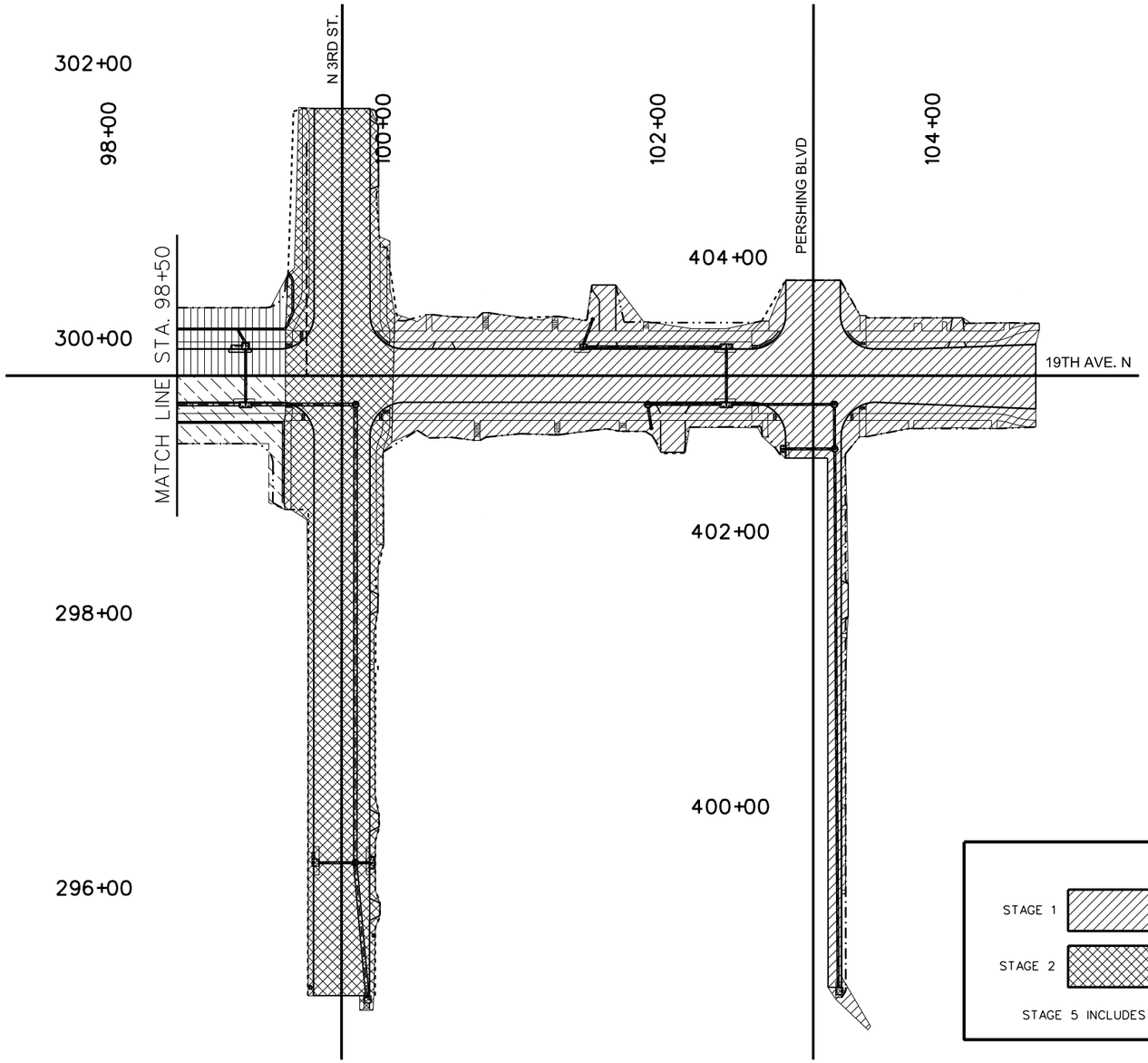


LEGEND

STAGE 1

STAGE 2

STAGE 3

STAGE 4

STAGE 5 INCLUDES PAVING OF 19th AVE N WITHIN STAGE 3 AND 4 AREAS

0 50

SCALE (FEET)

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER J.3

LEGEND

- TRAFFIC SIGN
- ROAD CLOSURE WITH TYPE III BARRICADE
- SAFETY CLOSURE
- (X) CONSTRUCTION SIGN IDENTIFICATION
- GENERAL WORK AREA

(A)

CLINTON COUNTY
ADMINISTRATION BUILDING
FOLLOW DETOUR

(B)

ROAD CLOSED TO THRU TRAFFIC

R11-4
60" x 30"

(C)

ROAD CLOSED

R11-2
48" x 30"

(D)

DETOUR → M4-9R 30" x 24"

DETOUR ← M4-9L 30" x 24"

ORIENTATE ARROW AS APPROPRIATE

(E)

END DETOUR

M4-8A
30" x 18"

STAGE 1 TRAFFIC CONTROL AND GENERAL NOTES

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	J.4

LEGEND

- TRAFFIC SIGN
- ROAD CLOSURE WITH TYPE III BARRICADE
- SAFETY CLOSURE
- (X) CONSTRUCTION SIGN IDENTIFICATION
- GENERAL WORK AREA

(A)

CLINTON COUNTY
ADMINISTRATION BUILDING
FOLLOW DETOUR

(B)

ROAD CLOSED TO THRU TRAFFIC

R11-4
60" x 30"

(C)

ROAD CLOSED

R11-2
48" x 30"

(D)

DETOUR → M4-9R 30" x 24"

DETOUR ← M4-9L 30" x 24"

ORIENTATE ARROW AS APPROPRIATE

(E)

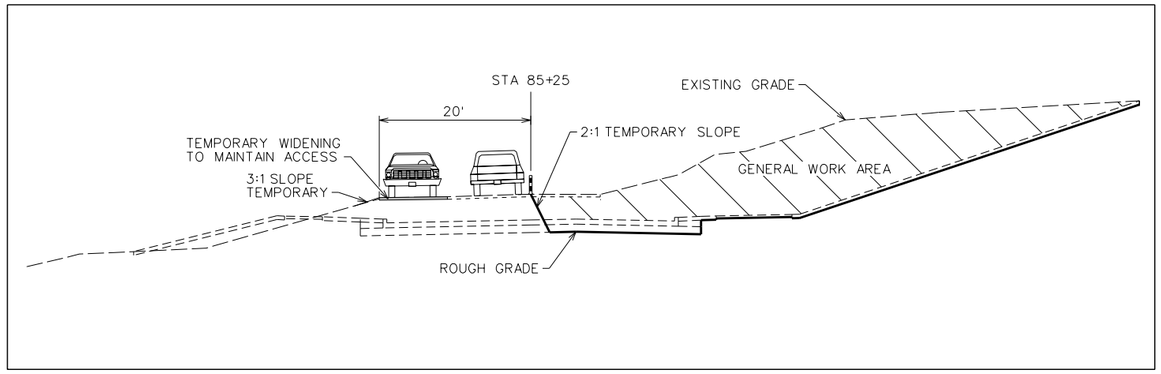
END DETOUR

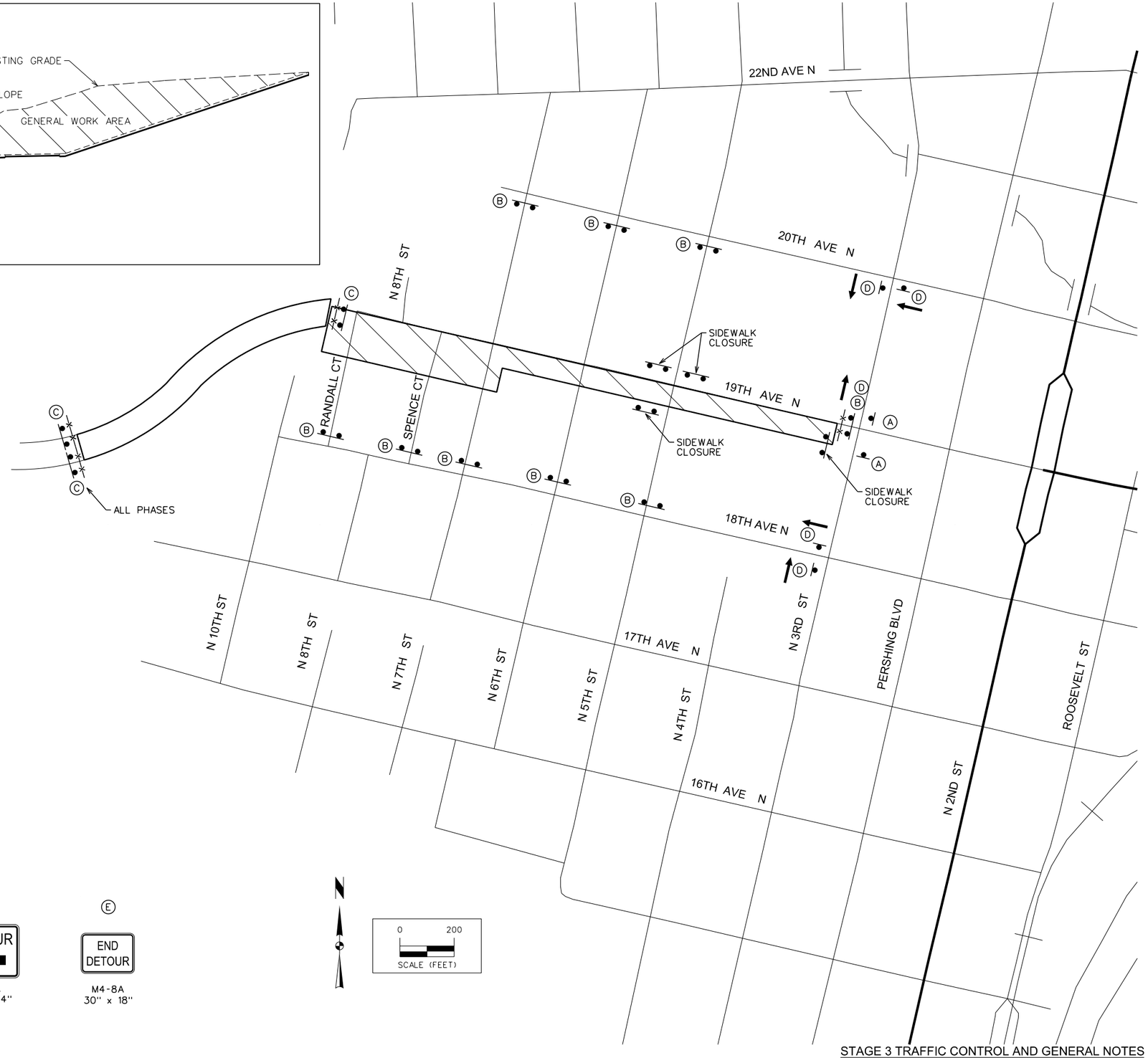
M4-8A
30" x 18"

STAGE 2 TRAFFIC CONTROL AND GENERAL NOTES

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	J.5

DSS 7/28/2015 J:\2004_Projects\104.1114\Cadd\1114_pkg3\cd_1114_pkg3e.j05 Y:\print_drivers\Black_Gray\V8iBWHalfWeightPDF.pltcfg Snyder Y:\pen\date.tbl 1:400





LEGEND

- TRAFFIC SIGN
- ROAD CLOSURE WITH TYPE III BARRICADE
- SAFETY CLOSURE
- (X) CONSTRUCTION SIGN IDENTIFICATION
- GENERAL WORK AREA

(A)

ACCESS CLINTON
COUNTY ADMINISTRATION
FROM 20TH AVE.

(B)

ROAD CLOSED
TO
THRU TRAFFIC

R11-4
60" x 30"

(C)

ROAD
CLOSED

R11-2
48" x 30"

(D)

DETOUR

M4-9R
30" x 24"

DETOUR

M4-9L
30" x 24"

ORIENTATE ARROW
AS APPROPRIATE

(E)

END
DETOUR

M4-8A
30" x 18"

STAGE 3 TRAFFIC CONTROL AND GENERAL NOTES

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	J.6

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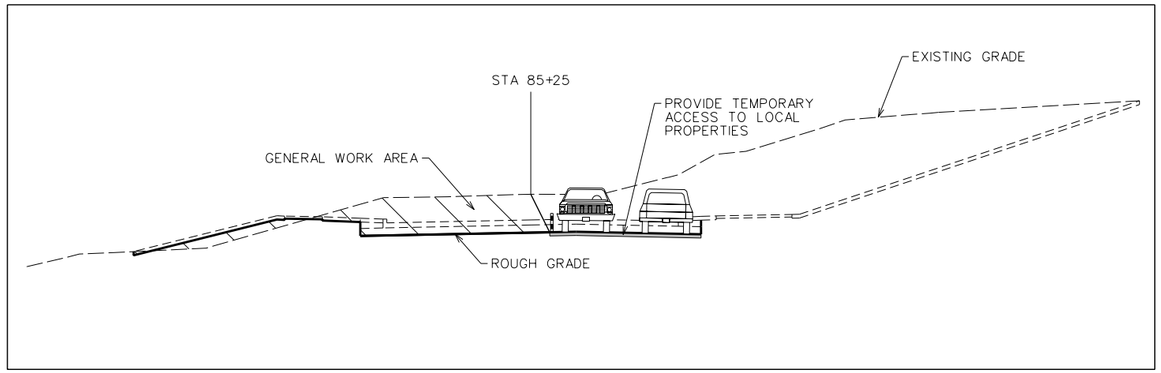
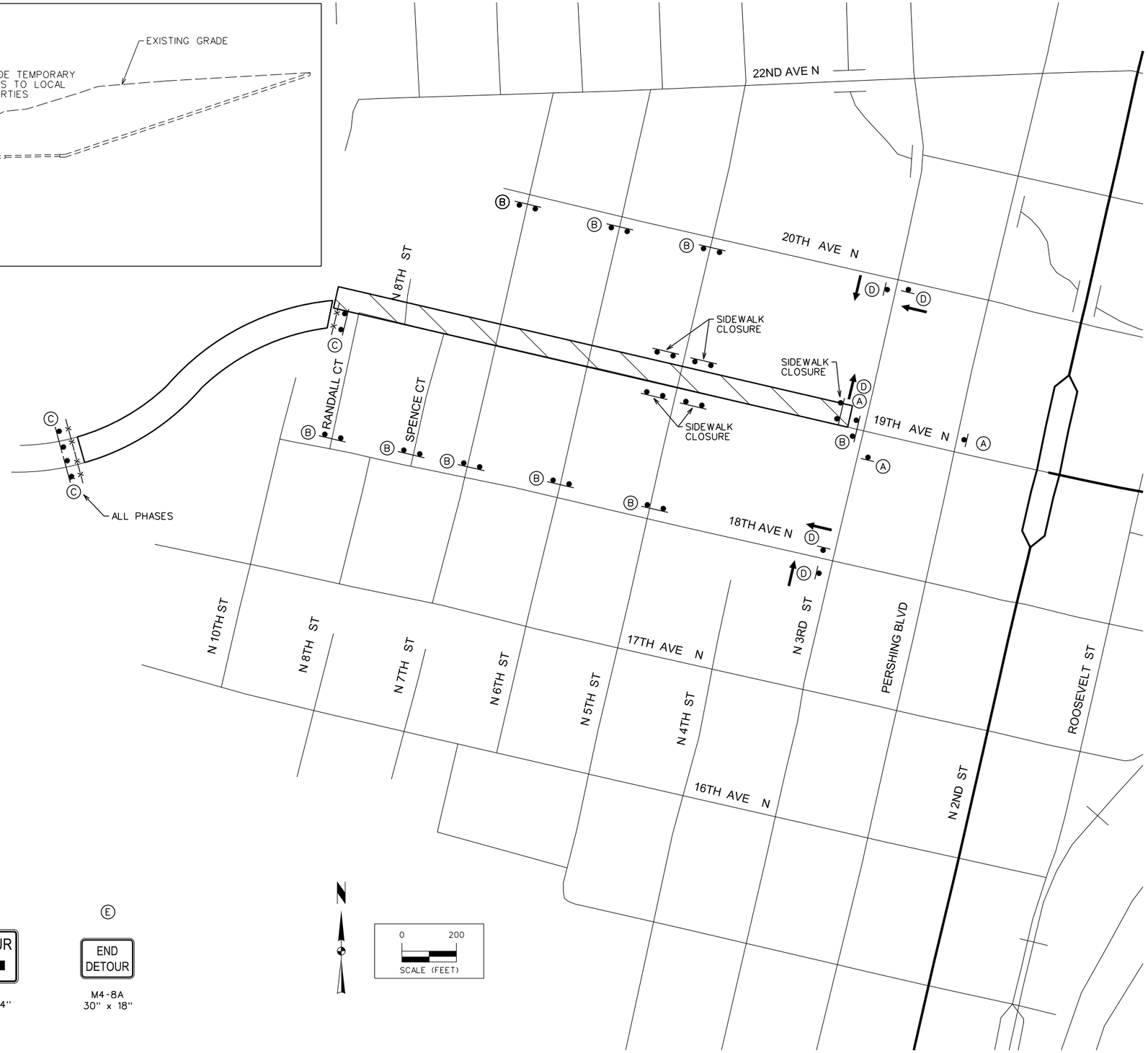




LEGEND

- TRAFFIC SIGN
- ROAD CLOSURE WITH TYPE III BARRICADE
- SAFETY CLOSURE
- (X) CONSTRUCTION SIGN IDENTIFICATION
- GENERAL WORK AREA

(A)

ACCESS CLINTON
COUNTY ADMINISTRATION
FROM 20TH AVE.

(B)

ROAD CLOSED
TO
THRU TRAFFIC

R11-4
60" x 30"

(C)

ROAD
CLOSED

R11-2
48" x 30"

(D)

DETOUR → | DETOUR ←

M4-9R
30" x 24"

M4-9L
30" x 24"

ORIENTATE ARROW
AS APPROPRIATE

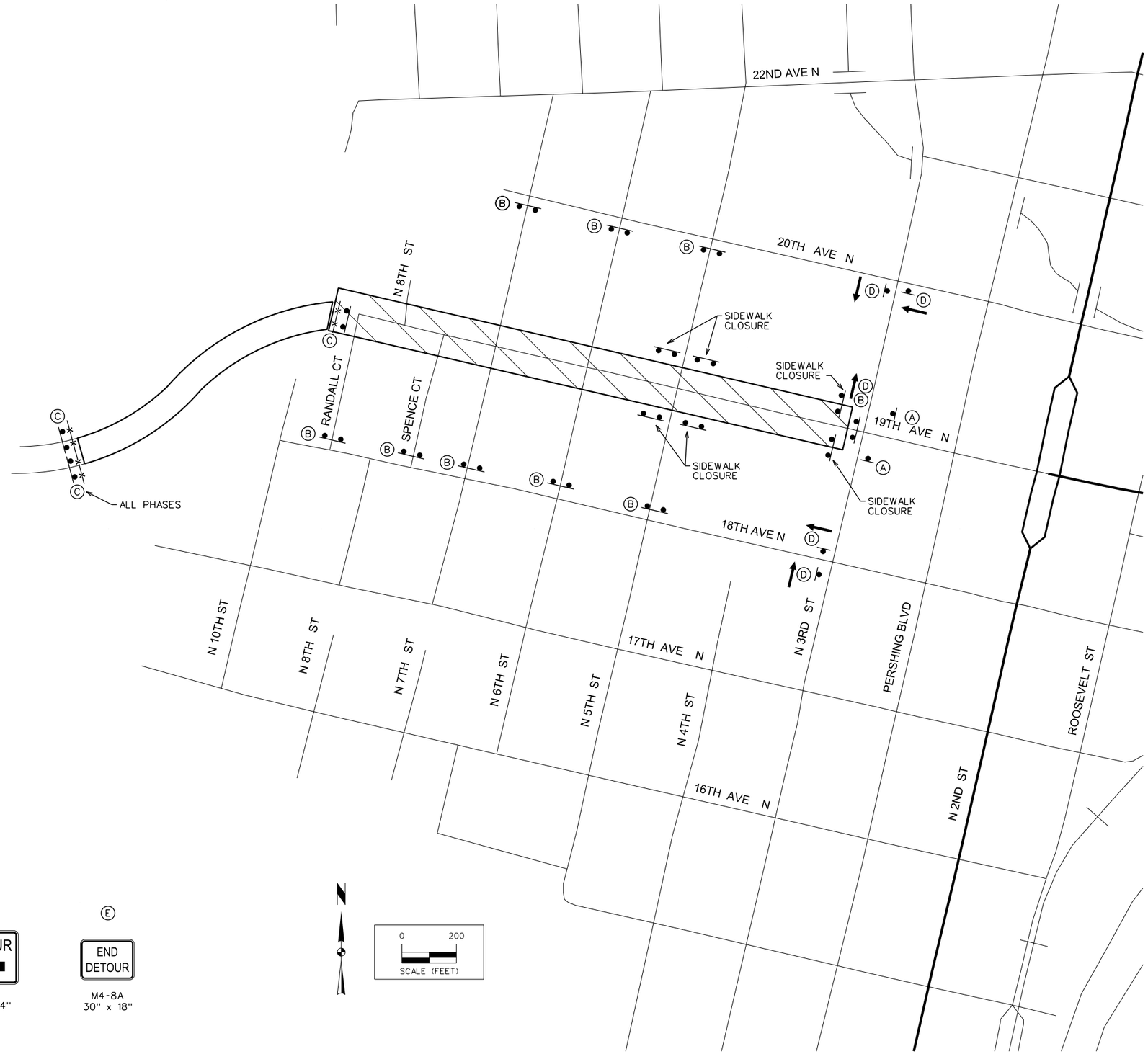
(E)

END
DETOUR

M4-8A
30" x 18"

STAGE 4 TRAFFIC CONTROL AND GENERAL NOTES

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	J.7



LEGEND

- TRAFFIC SIGN
- ROAD CLOSURE WITH TYPE III BARRICADE
- SAFETY CLOSURE
- (X) CONSTRUCTION SIGN IDENTIFICATION
- GENERAL WORK AREA

(A)

ACCESS FOR CLINTON COUNTY ADMINISTRATION FROM 20TH AVE.

(B)

ROAD CLOSED TO THRU TRAFFIC

R11-4
60" x 30"

(C)

ROAD CLOSED

R11-2
48" x 30"

(D)

DETOUR →

M4-9R
30" x 24"

DETOUR ←

M4-9L
30" x 24"

ORIENTATE ARROW AS APPROPRIATE

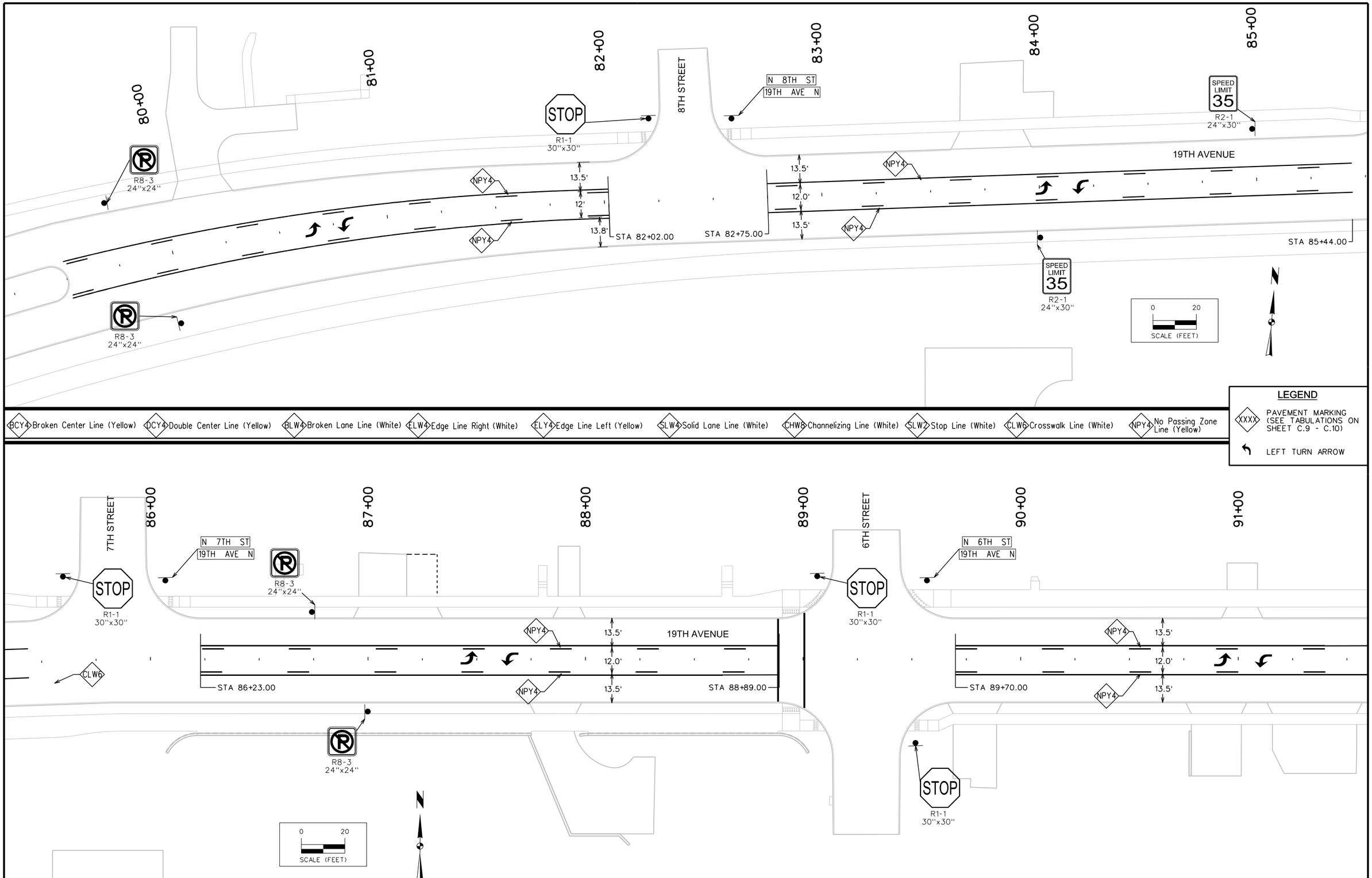
(E)

END DETOUR

M4-8A
30" x 18"

STAGE 5 TRAFFIC CONTROL AND GENERAL NOTES

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	J.8



ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	J.9

92+00
93+00
94+00
95+00
96+00
97+00
5TH STREET
STOP
R1-1
30"x30"
R8-3
24"x24"
N 5TH ST
19TH AVE N
NPY4
13.5'
12.0'
13.5'
19TH AVENUE
STA 92+34.00
STA 93+15.00
SPEED LIMIT 35
R2-1
24"x30"
0 20
SCALE (FEET)
N

BCY4 Broken Center Line (Yellow)
DCY4 Double Center Line (Yellow)
BLW4 Broken Lane Line (White)
ELW4 Edge Line Right (White)
ELY4 Edge Line Left (Yellow)
SLW4 Solid Lane Line (White)
CHW8 Channelizing Line (White)
SLW2 Stop Line (White)
CLW6 Crosswalk Line (White)
NPY4 No Passing Zone Line (Yellow)

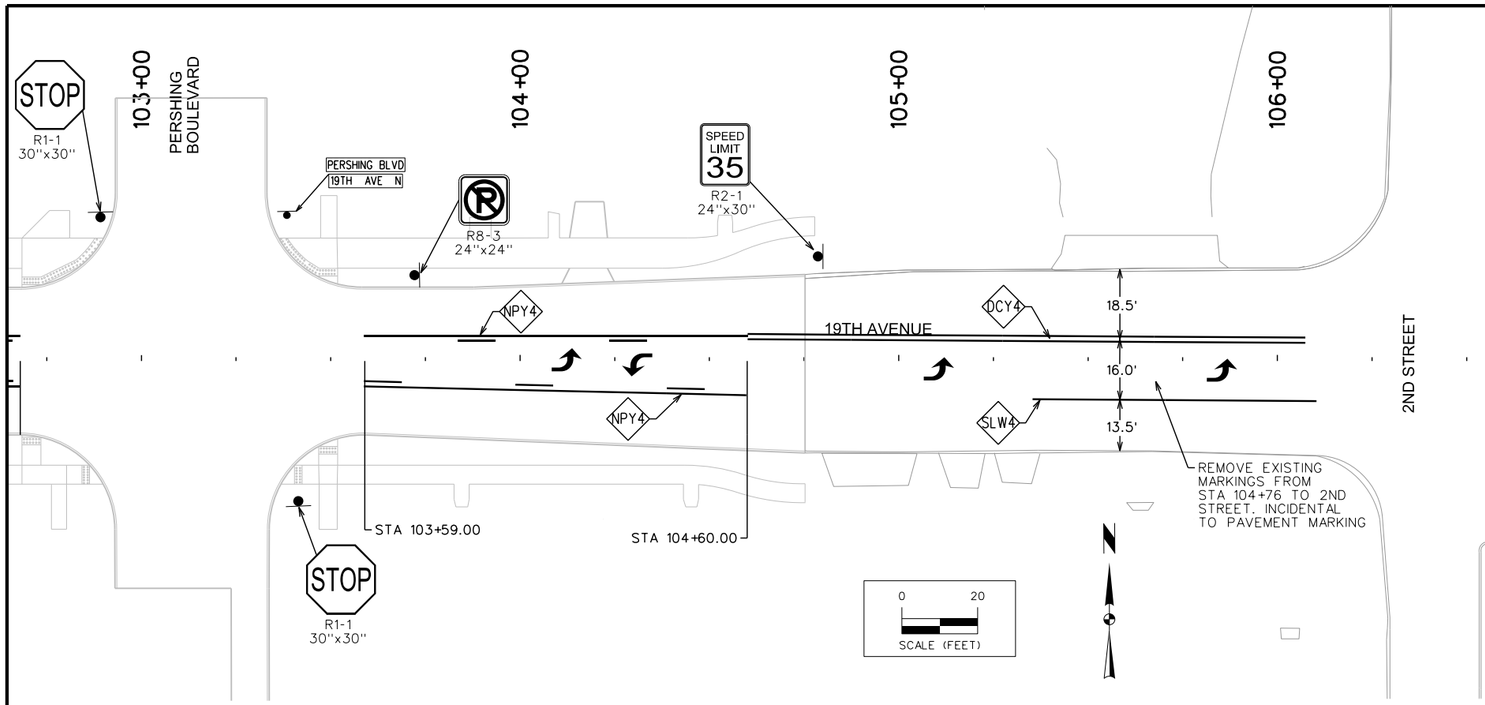
LEGEND

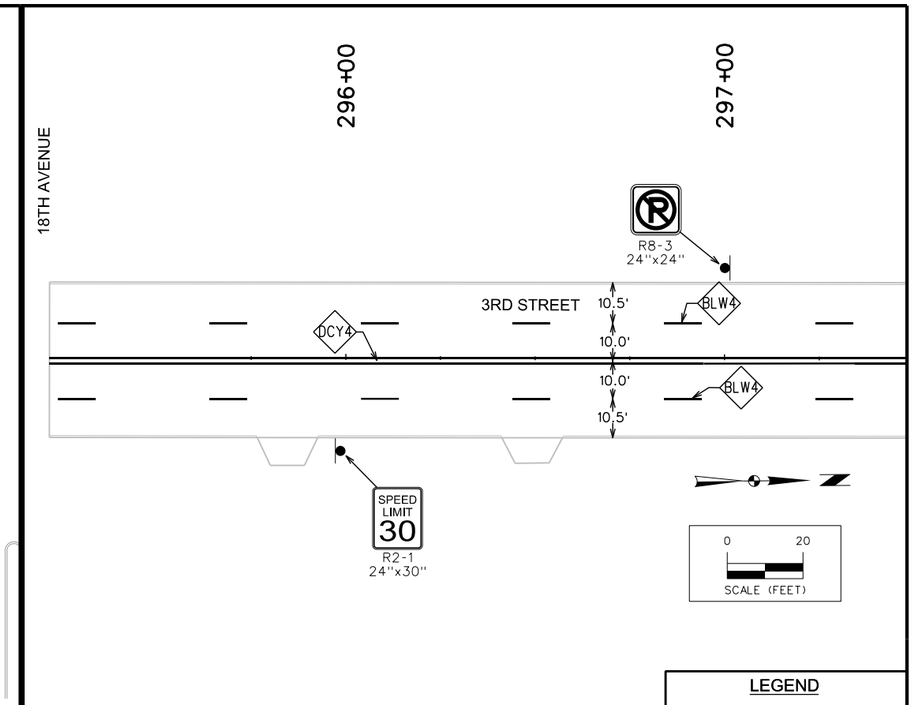
XXXX PAVEMENT MARKING (SEE TABULATIONS ON SHEET C.9 - C.10)

LEFT TURN ARROW

98+00
99+00
100+00
101+00
102+00
103+00
3RD STREET
PERSHING BOULEVARD
PERSHING BLVD
19TH AVE N
DCY4
BLW4
SLW2
SLW4
CLW6
NPY4
10'
4'
6'
13.5'
12.0'
13.5'
19TH AVENUE
D9-2
24"x24"
STA 97+73.00
STA 99+23.00
STA 100+11.00
STA 101+61.00
STA 102+68.00

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	J.10



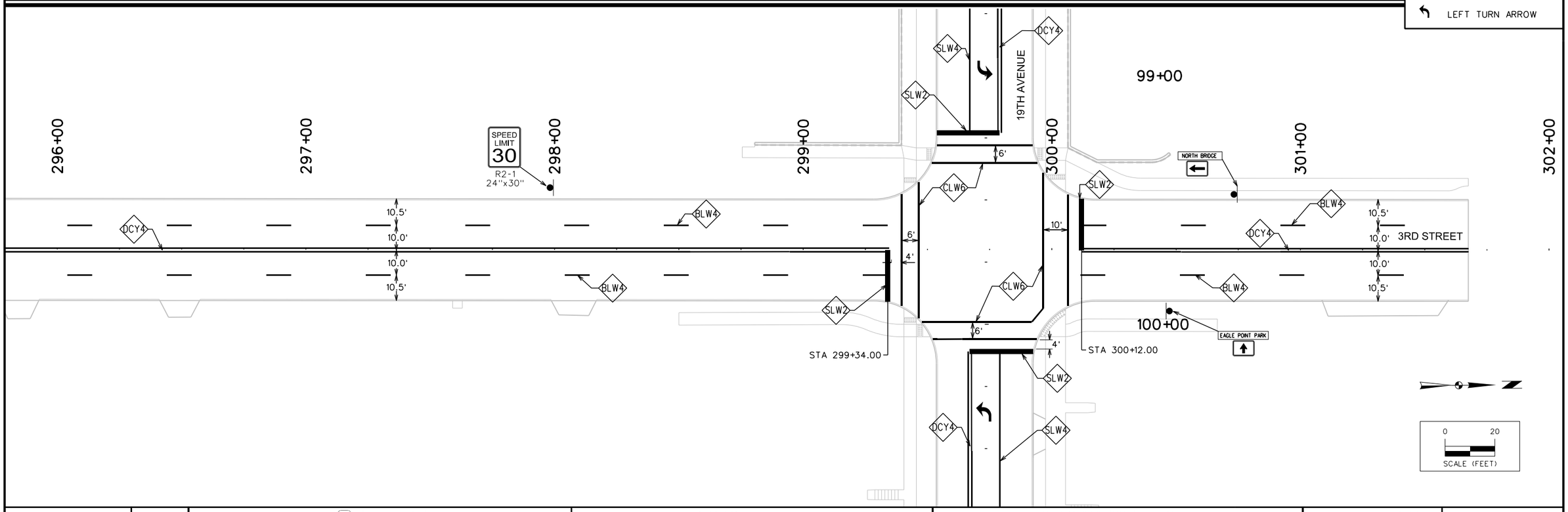


BCY4 Broken Center Line (Yellow) | DCY4 Double Center Line (Yellow) | BLW4 Broken Lane Line (White) | ELW4 Edge Line Right (White) | ELY4 Edge Line Left (Yellow) | SLW4 Solid Lane Line (White) | CHW8 Channelizing Line (White) | SLW2 Stop Line (White) | CLW6 Crosswalk Line (White) | NPY4 No Passing Zone Line (Yellow)

LEGEND

XXXX PAVEMENT MARKING (SEE TABULATIONS ON SHEET C.9 - C.10)

LEFT TURN ARROW



ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER J.11

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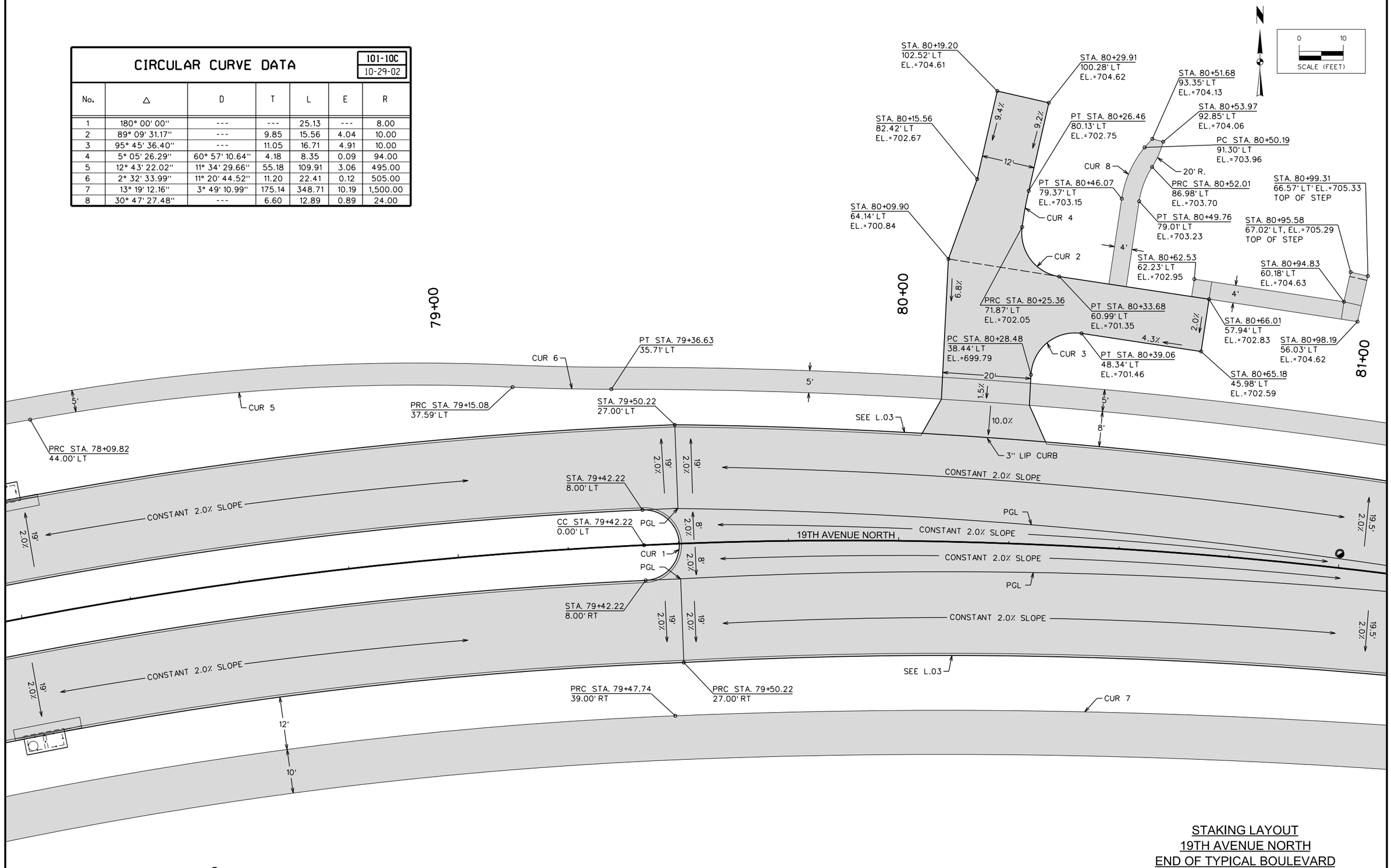
CIRCULAR CURVE DATA

101-10C
10-29-02

No.	Δ	D	T	L	E	R
1	180° 00' 00"	---	---	25.13	---	8.00
2	89° 09' 31.17"	---	9.85	15.56	4.04	10.00
3	95° 45' 36.40"	---	11.05	16.71	4.91	10.00
4	5° 05' 26.29"	60° 57' 10.64"	4.18	8.35	0.09	94.00
5	12° 43' 22.02"	11° 34' 29.66"	55.18	109.91	3.06	495.00
6	2° 32' 33.99"	11° 20' 44.52"	11.20	22.41	0.12	505.00
7	13° 19' 12.16"	3° 49' 10.99"	175.14	348.71	10.19	1,500.00
8	30° 47' 27.48"	---	6.60	12.89	0.89	24.00



STAKING LAYOUT
19TH AVENUE NORTH
END OF TYPICAL BOULEVARD

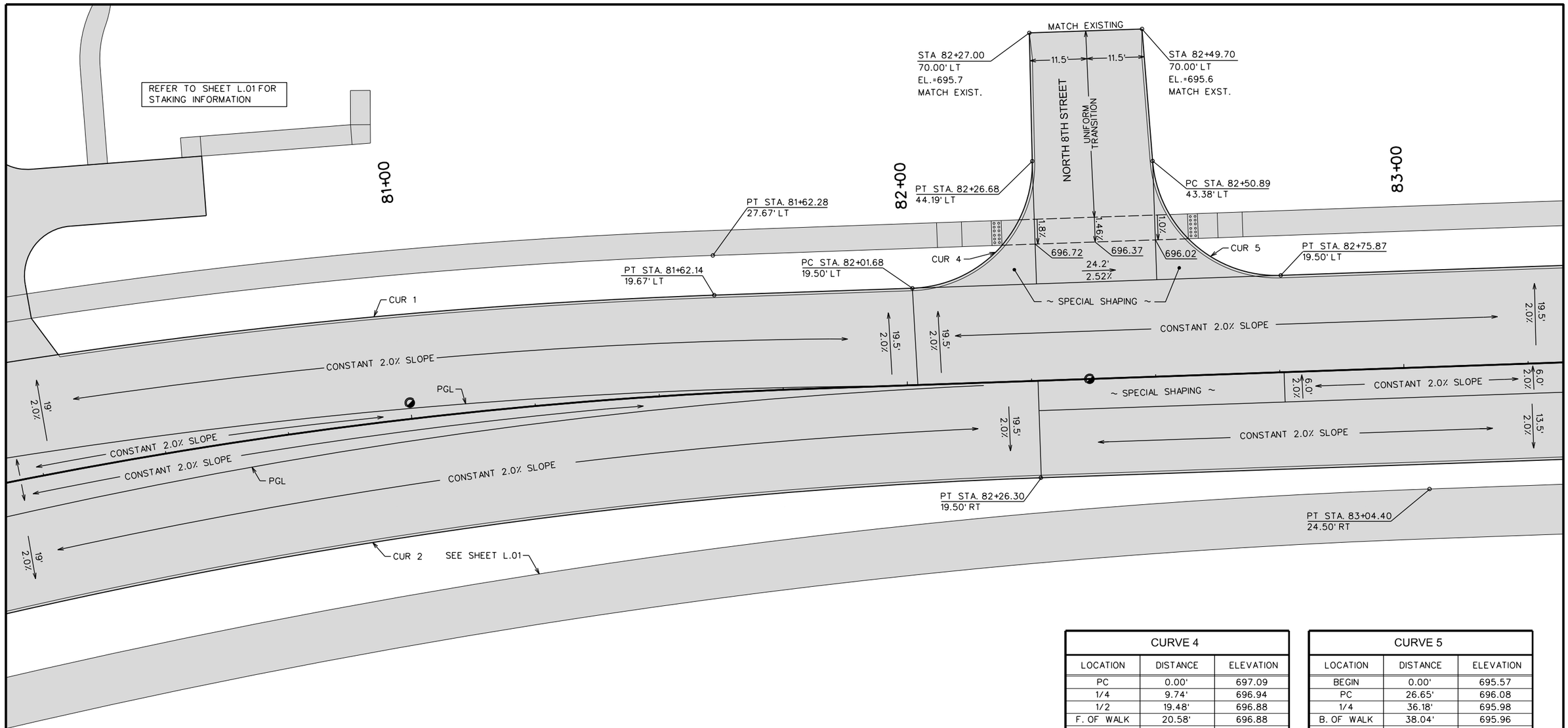
ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER L.1

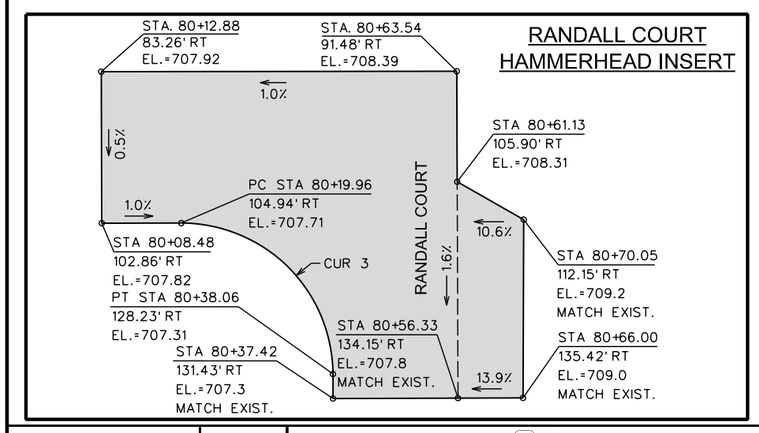
NOTES:

1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

JOINTING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH
AND RANDALL COURT

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER L.2





CURVE 4		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	697.09
1/4	9.74'	696.94
1/2	19.48'	696.88
F. OF WALK	20.58'	696.88
B. OF WALK	26.75'	696.91
3/4	29.22'	696.89
PT	38.96'	696.62
END	64.77'	695.73
V.P.I. @ 15'	ELEV.=696.86	V.C.L.=10'
V.P.I. @ 30'	ELEV.=696.93	V.C.L.=10'

CURVE 5		
LOCATION	DISTANCE	ELEVATION
BEGIN	0.00'	695.57
PC	26.65'	696.08
1/4	36.18'	695.98
B. OF WALK	38.04'	695.96
F. OF WALK	44.22'	695.88
1/2	45.72'	695.85
3/4	55.26	695.54
PT	64.80'	695.21
V.P.I. @ 20'	ELEV.=696.14	V.C.L.=10'
V.P.I. @ 45'	ELEV.=695.89	V.C.L.=10'

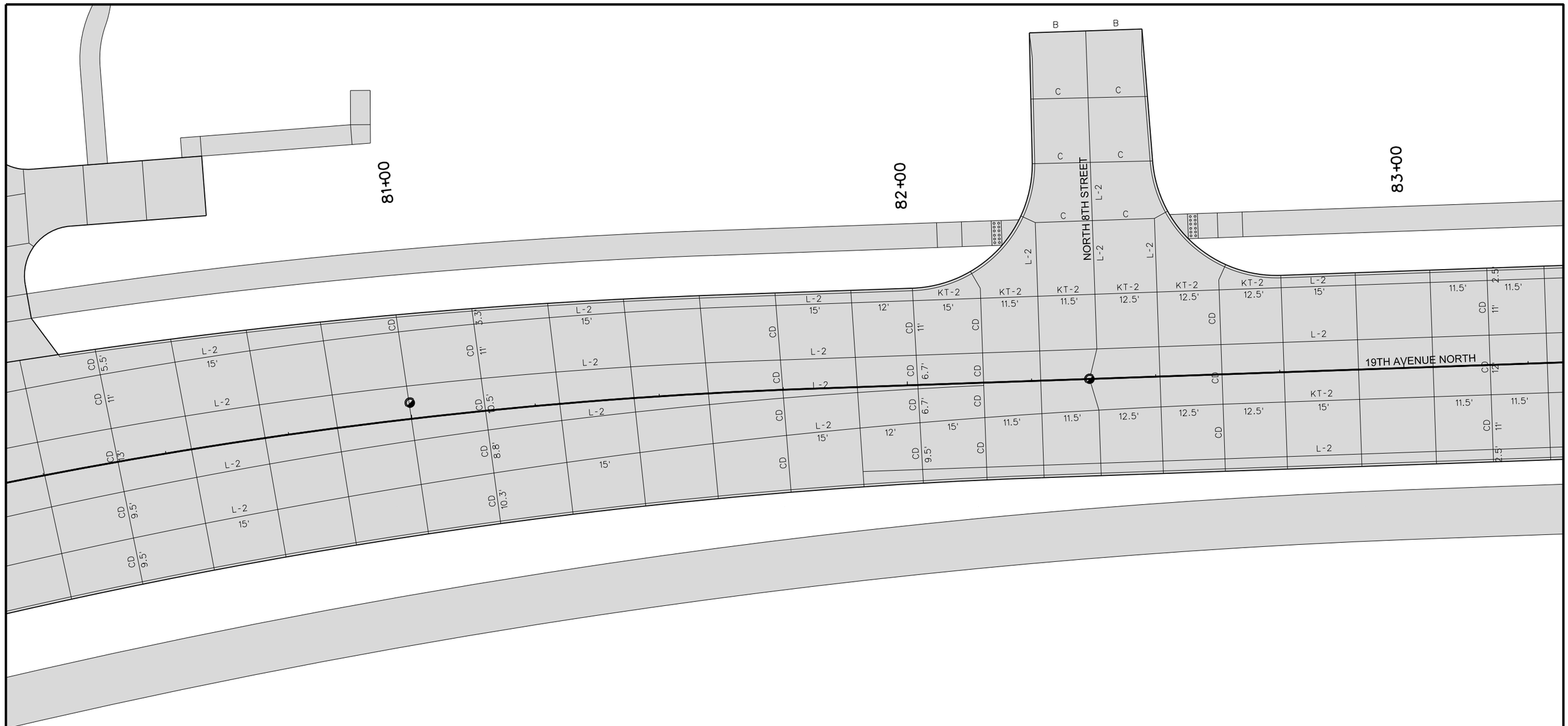
CIRCULAR CURVE DATA

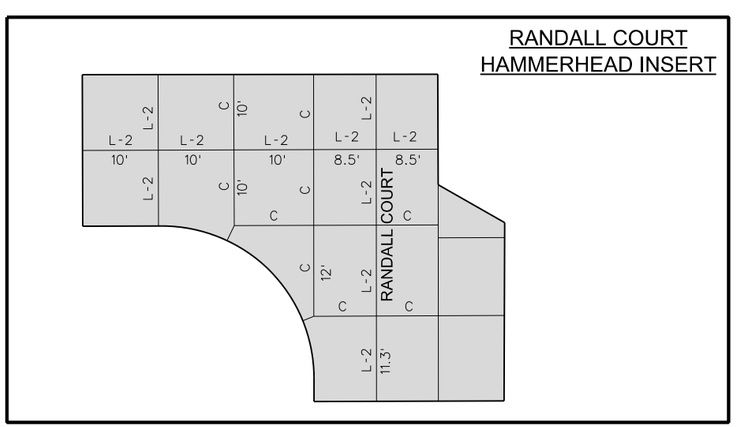
101-10C
10-29-02

No.	Δ	D	T	L	E	R
1	10° 21' 18.35"	4° 46' 28.73"	108.73	216.87	4.91	1,200.00
2	14° 05' 46.16"	5° 12' 31.35"	136.00	270.63	8.37	1,100.00
3	89° 51' 43.57"	---	19.95	31.36	8.25	20.00
4	89° 17' 34.29"	---	24.69	38.96	10.13	25.00
5	87° 25' 50.84"	---	23.90	38.14	9.59	25.00

0 10
SCALE (FEET)

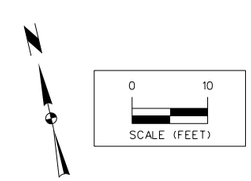
STAKING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH
AND NORTH 8TH STREET





NOTES:

1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.



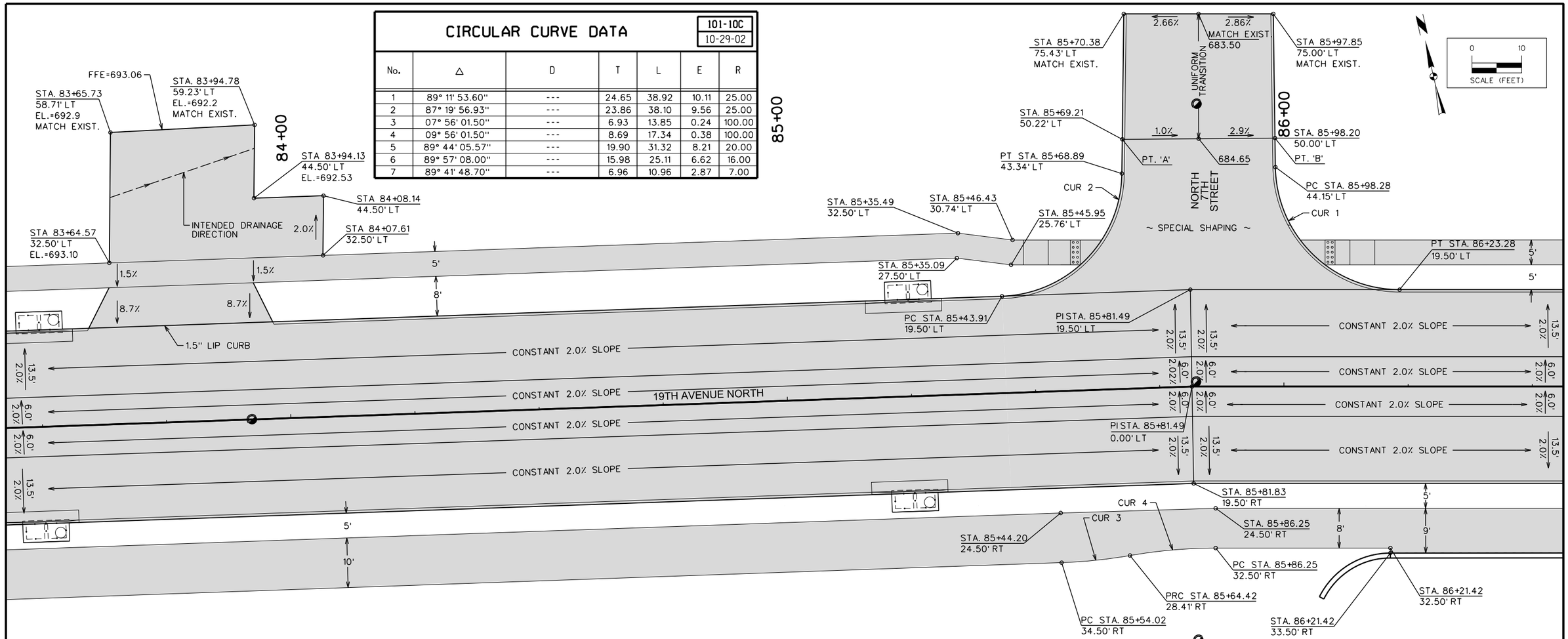
JOINTING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH
AND NORTH 8TH STREET

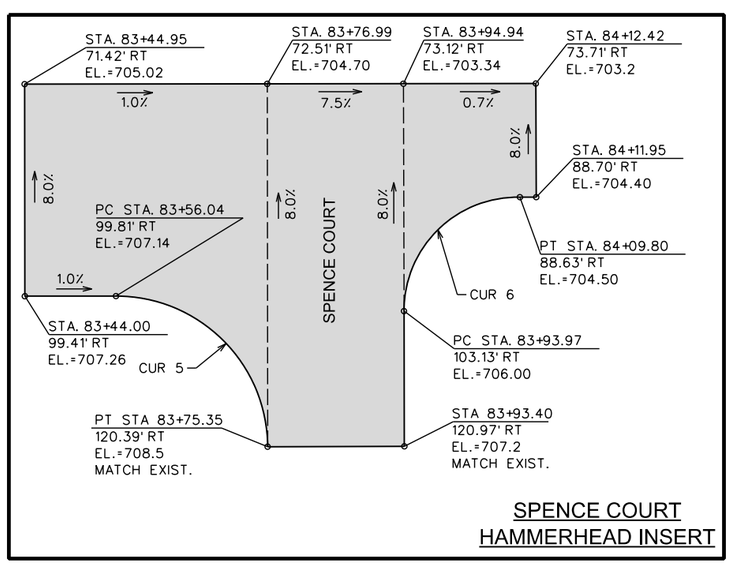
ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER L.4

CIRCULAR CURVE DATA

101-10C
10-29-02

No.	Δ	D	T	L	E	R
1	89° 11' 53.60"	---	24.65	38.92	10.11	25.00
2	87° 19' 56.93"	---	23.86	38.10	9.56	25.00
3	07° 56' 01.50"	---	6.93	13.85	0.24	100.00
4	09° 56' 01.50"	---	8.69	17.34	0.38	100.00
5	89° 44' 05.57"	---	19.90	31.32	8.21	20.00
6	89° 57' 08.00"	---	15.98	25.11	6.62	16.00
7	89° 41' 48.70"	---	6.96	10.96	2.87	7.00



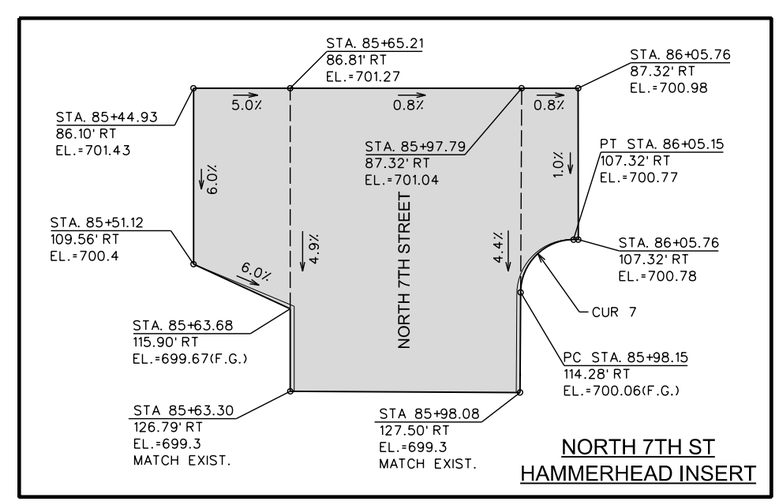


SPENCE COURT
HAMMERHEAD INSERT

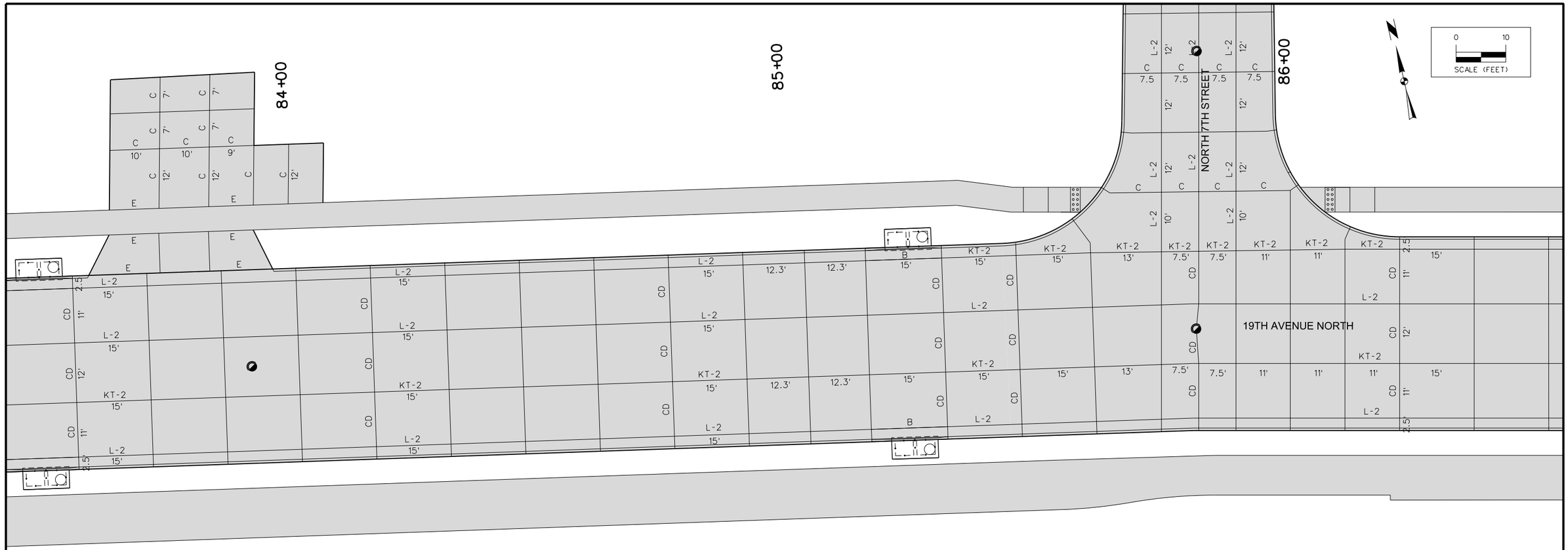
CURVE 2		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	686.04
1/4	9.53'	685.66
F. OF WALK	17.33'	685.38
1/2	19.05'	685.33
B. OF WALK	23.94'	685.23
3/4	28.58'	685.13
PT	38.11'	684.94
PT. 'A'	45.00'	684.80
END	70.24'	683.10
V.P.I. @ 17'	ELEV.=685.36	V.C.L.=10'
V.P.I. @ 55'	ELEV.=684.60	V.C.L.=20'

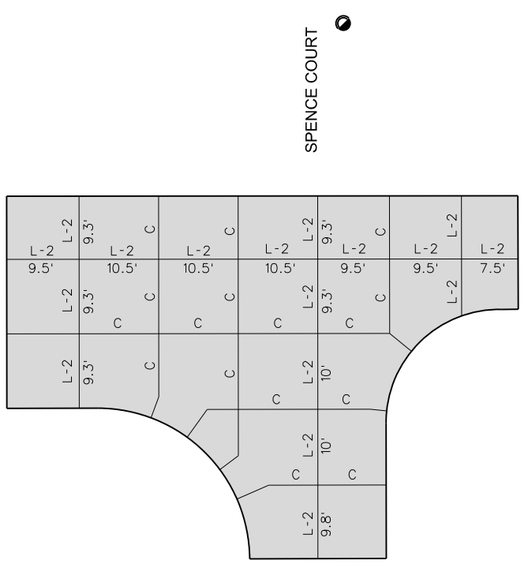
CURVE 1		
LOCATION	DISTANCE	ELEVATION
BEGIN	0.00'	683.07
PT. 'B'	25.00'	684.20
PC	30.85'	684.09
1/4	40.58'	683.90
B. OF WALK	46.59'	683.78
1/2	50.31'	683.70
F. OF WALK	53.69'	683.64
3/4	60.04'	683.51
PT	69.77'	683.32
V.P.I. @ 15'	ELEV.=684.40	V.C.L.=20'

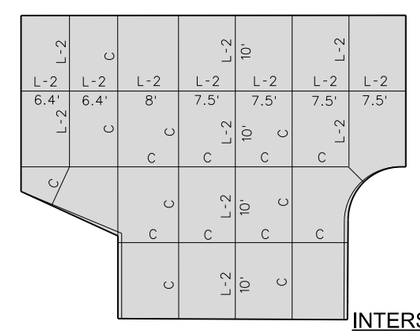
STAKING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH
AND NORTH 7TH STREET



NORTH 7TH ST
HAMMERHEAD INSERT







NOTES:

1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

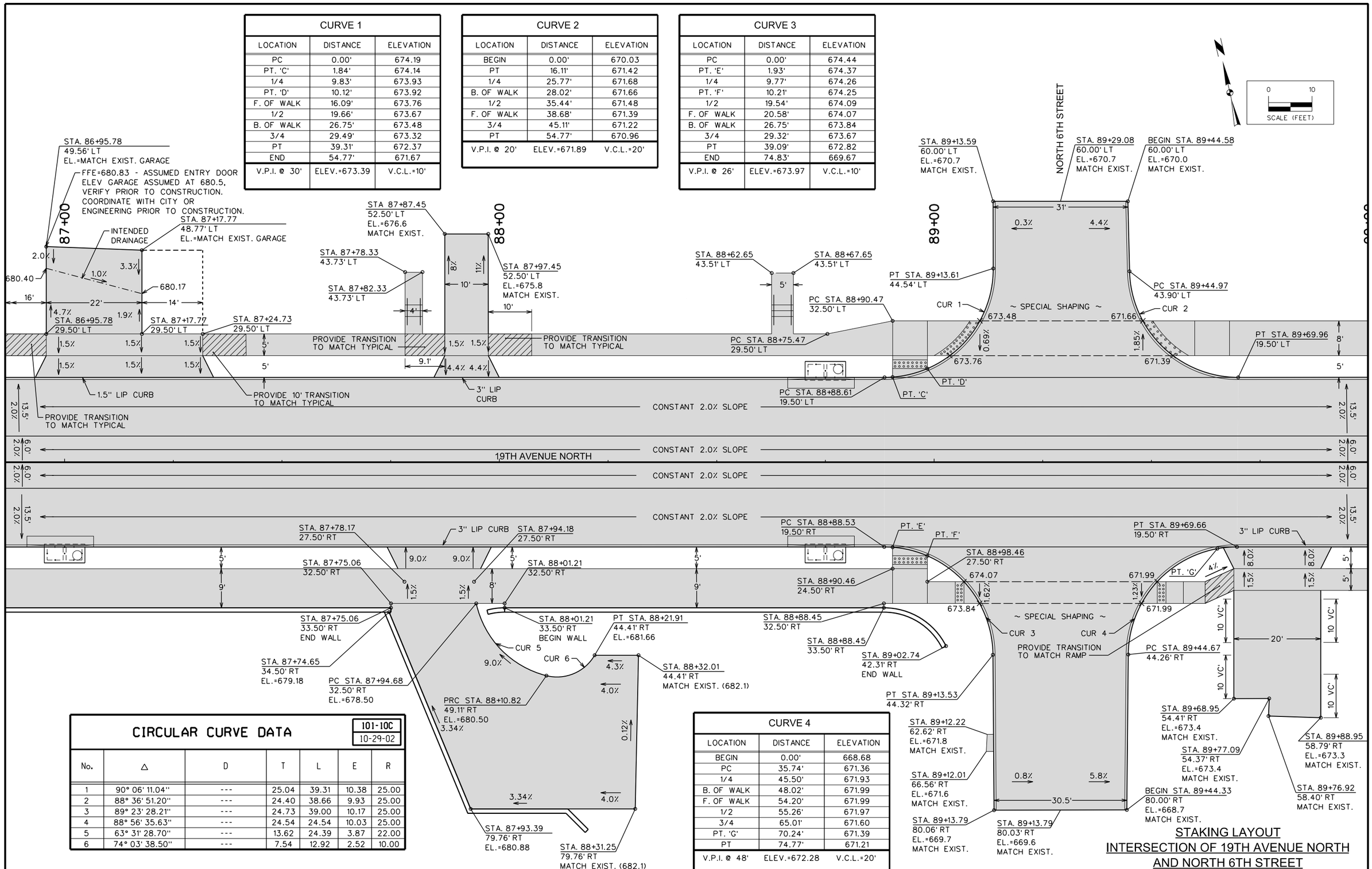
JOINTING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH AND NORTH 7TH STREET

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER L.6

CURVE 1		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	674.19
PT. 'C'	1.84'	674.14
1/4	9.83'	673.93
PT. 'D'	10.12'	673.92
F. OF WALK	16.09'	673.76
1/2	19.66'	673.67
B. OF WALK	26.75'	673.48
3/4	29.49'	673.32
PT	39.31'	672.37
END	54.77'	671.67
V.P.I. @ 30'	ELEV.=673.39	V.C.L.=10'

CURVE 2		
LOCATION	DISTANCE	ELEVATION
BEGIN	0.00'	670.03
PT	16.11'	671.42
1/4	25.77'	671.68
B. OF WALK	28.02'	671.66
1/2	35.44'	671.48
F. OF WALK	38.68'	671.39
3/4	45.11'	671.22
PT	54.77'	670.96
V.P.I. @ 20'	ELEV.=671.89	V.C.L.=20'

CURVE 3		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	674.44
PT. 'E'	1.93'	674.37
1/4	9.77'	674.26
PT. 'F'	10.21'	674.25
1/2	19.54'	674.09
F. OF WALK	20.58'	674.07
B. OF WALK	26.75'	673.84
3/4	29.32'	673.67
PT	39.09'	672.82
END	74.83'	669.67
V.P.I. @ 26'	ELEV.=673.97	V.C.L.=10'



CIRCULAR CURVE DATA

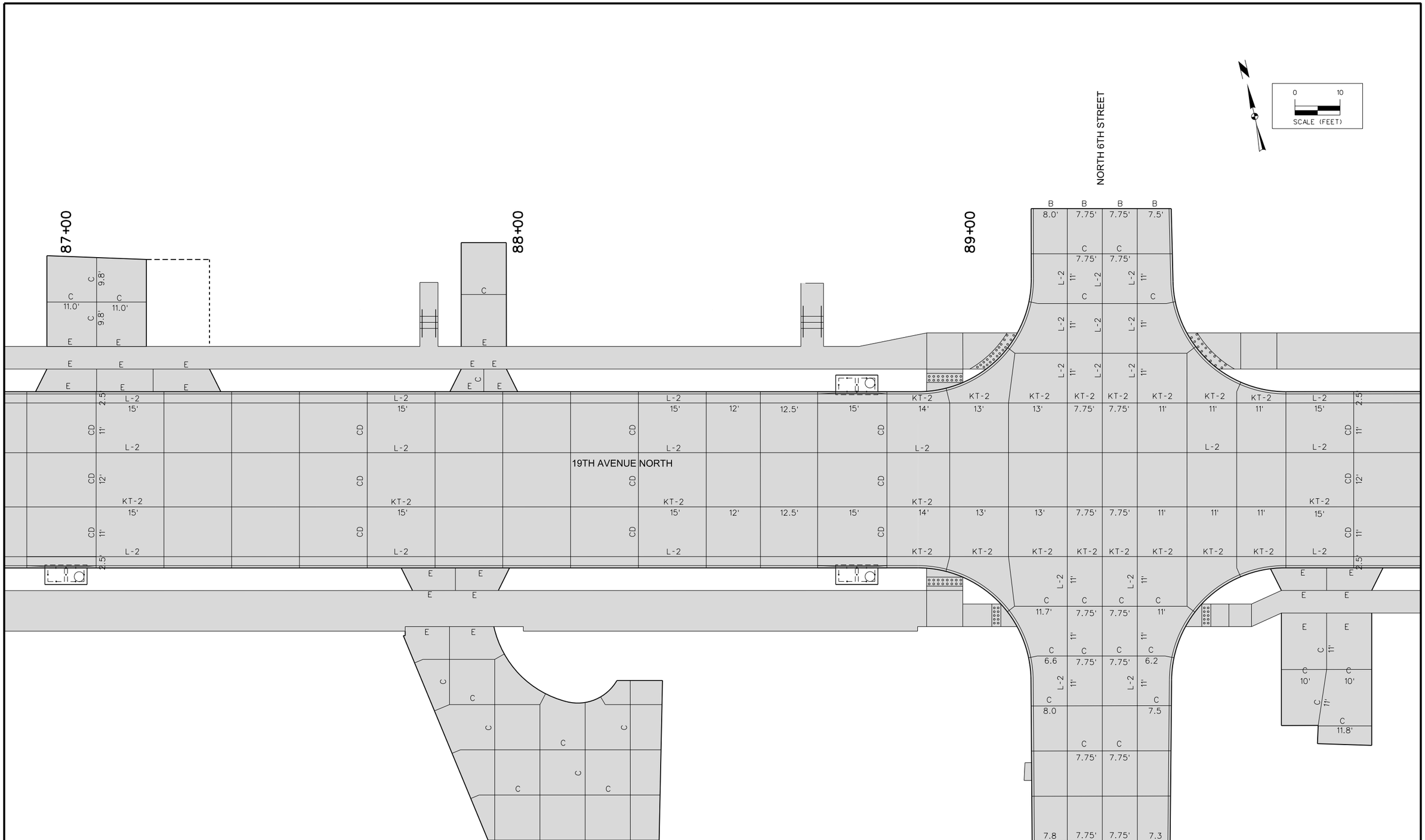
101-10C
10-29-02

No.	Δ	D	T	L	E	R
1	90° 06' 11.04"	---	25.04	39.31	10.38	25.00
2	88° 36' 51.20"	---	24.40	38.66	9.93	25.00
3	89° 23' 28.21"	---	24.73	39.00	10.17	25.00
4	88° 56' 35.63"	---	24.54	24.54	10.03	25.00
5	63° 31' 28.70"	---	13.62	24.39	3.87	22.00
6	74° 03' 38.50"	---	7.54	12.92	2.52	10.00

CURVE 4		
LOCATION	DISTANCE	ELEVATION
BEGIN	0.00'	668.68
PC	35.74'	671.36
1/4	45.50'	671.93
B. OF WALK	48.02'	671.99
F. OF WALK	54.20'	671.99
1/2	55.26'	671.97
3/4	65.01'	671.60
PT. 'G'	70.24'	671.39
PT	74.77'	671.21
V.P.I. @ 48'	ELEV.=672.28	V.C.L.=20'

STAKING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH AND NORTH 6TH STREET

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.7



NOTES:

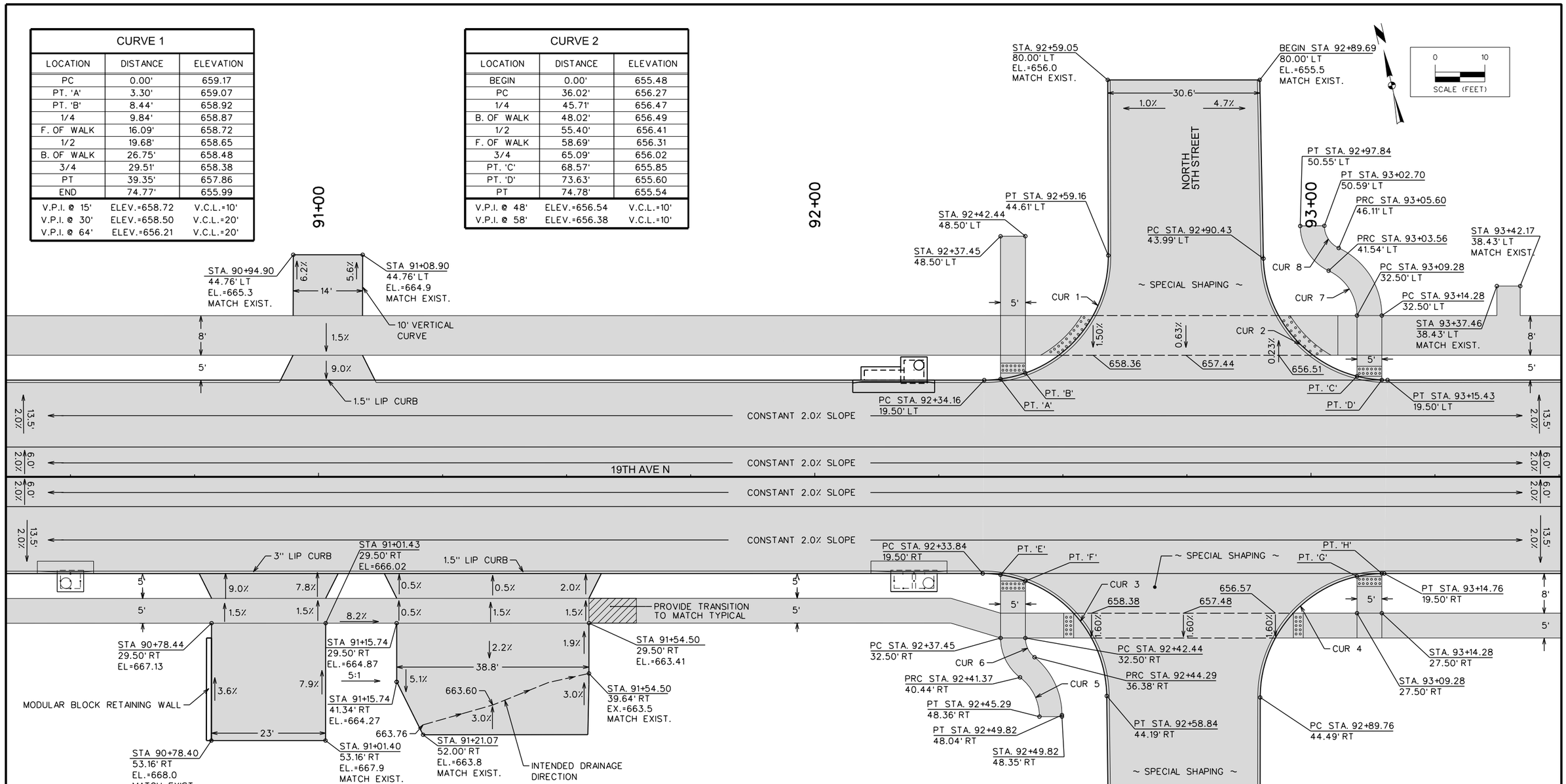
1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

JOINTING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH AND NORTH 6TH STREET

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.8

CURVE 1		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	659.17
PT. 'A'	3.30'	659.07
PT. 'B'	8.44'	658.92
1/4	9.84'	658.87
F. OF WALK	16.09'	658.72
1/2	19.68'	658.65
B. OF WALK	26.75'	658.48
3/4	29.51'	658.38
PT	39.35'	657.86
END	74.77'	655.99
V.P.I. @ 15'	ELEV.=658.72	V.C.L.=10'
V.P.I. @ 30'	ELEV.=658.50	V.C.L.=20'
V.P.I. @ 64'	ELEV.=656.21	V.C.L.=20'

CURVE 2		
LOCATION	DISTANCE	ELEVATION
BEGIN	0.00'	655.48
PC	36.02'	656.27
1/4	45.71'	656.47
B. OF WALK	48.02'	656.49
1/2	55.40'	656.41
F. OF WALK	58.69'	656.31
3/4	65.09'	656.02
PT. 'C'	68.57'	655.85
PT. 'D'	73.63'	655.60
PT	74.78'	655.54
V.P.I. @ 48'	ELEV.=656.54	V.C.L.=10'
V.P.I. @ 58'	ELEV.=656.38	V.C.L.=10'



CIRCULAR CURVE DATA

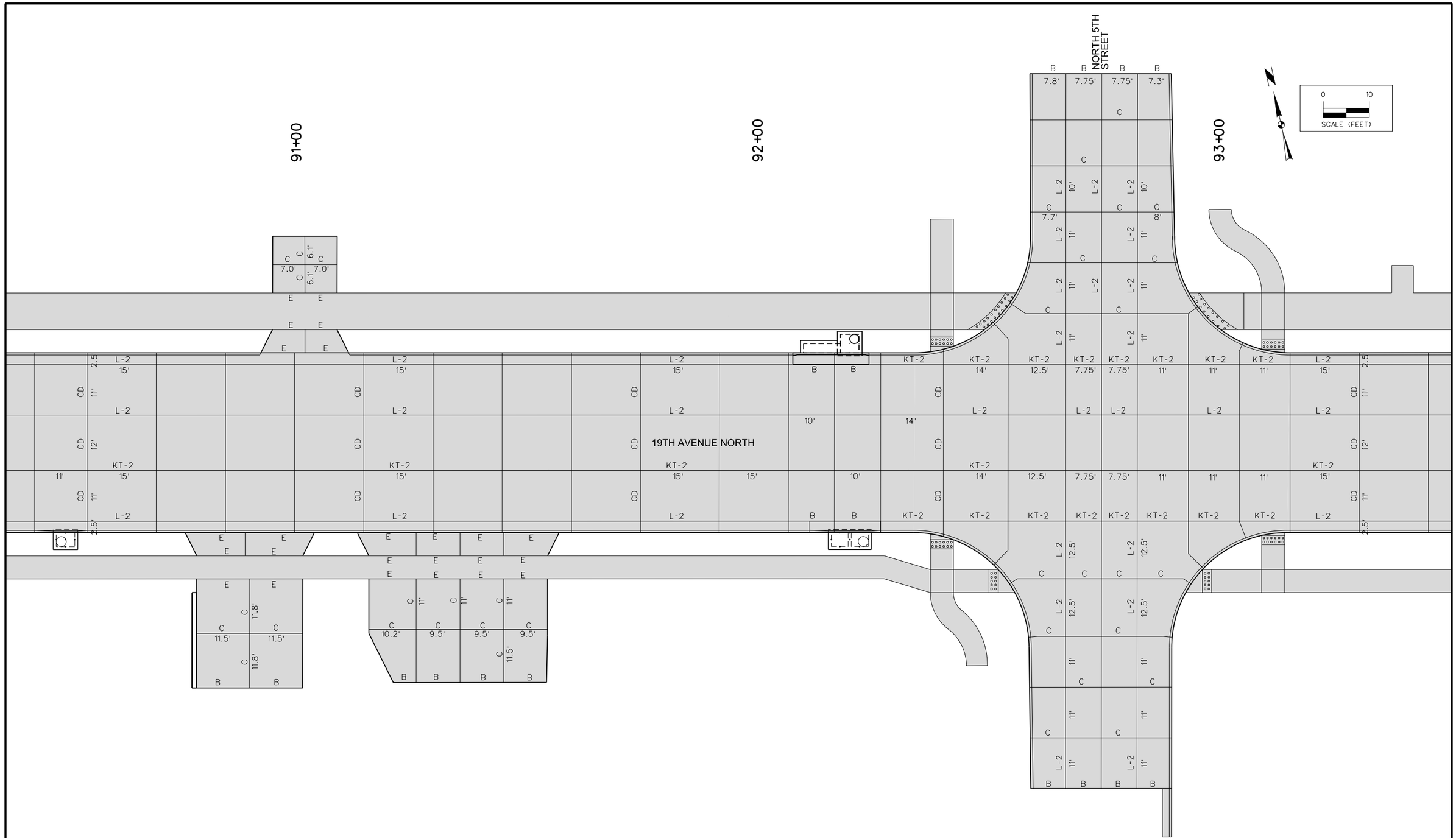
101-10C
10-29-02

No.	Δ	D	T	L	E	R
1	90° 15' 35.01"	---	25.11	39.38	10.43	25.00
2	88° 49' 17.72"	---	24.49	38.75	9.99	25.00
3	89° 16' 41.05"	---	24.68	38.95	10.13	25.00
4	89° 58' 49.58"	---	24.99	39.26	10.34	25.00
5	52° 26' 32.15"	---	4.92	9.15	1.14	10.00
6	50° 49' 56.39"	---	2.37	4.43	0.53	5.00
7	64° 38' 32.67"	---	6.32	11.28	1.83	10.00
8	64° 28' 42.88"	---	3.15	5.62	0.91	5.00

CURVE 3		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	659.42
PT. 'E'	3.62'	659.28
PT. 'F'	8.78'	659.06
1/4	9.74'	659.01
1/2	19.48'	658.56
F. OF WALK	20.58'	658.54
B. OF WALK	26.75'	658.30
3/4	29.22'	658.13
PT	38.95'	657.23
END	69.77'	654.35
V.P.I. @ 9'	ELEV.=659.06	V.C.L.=4'
V.P.I. @ 16'	ELEV.=658.62	V.C.L.=10'
V.P.I. @ 26'	ELEV.=658.44	V.C.L.=10'

CURVE 4		
LOCATION	DISTANCE	ELEVATION
BEGIN	0.00'	653.90
PC	30.51'	656.04
1/4	40.32'	656.46
B. OF WALK	43.02'	656.49
F. OF WALK	49.19'	656.42
1/2	50.14'	656.40
3/4	59.95'	656.10
PT. 'G'	64.24'	655.98
PT. 'H'	69.29'	655.82
PT	69.77'	655.81
V.P.I. @ 40'	ELEV.=656.70	V.C.L.=20'

STAKING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH
AND NORTH 5TH STREET

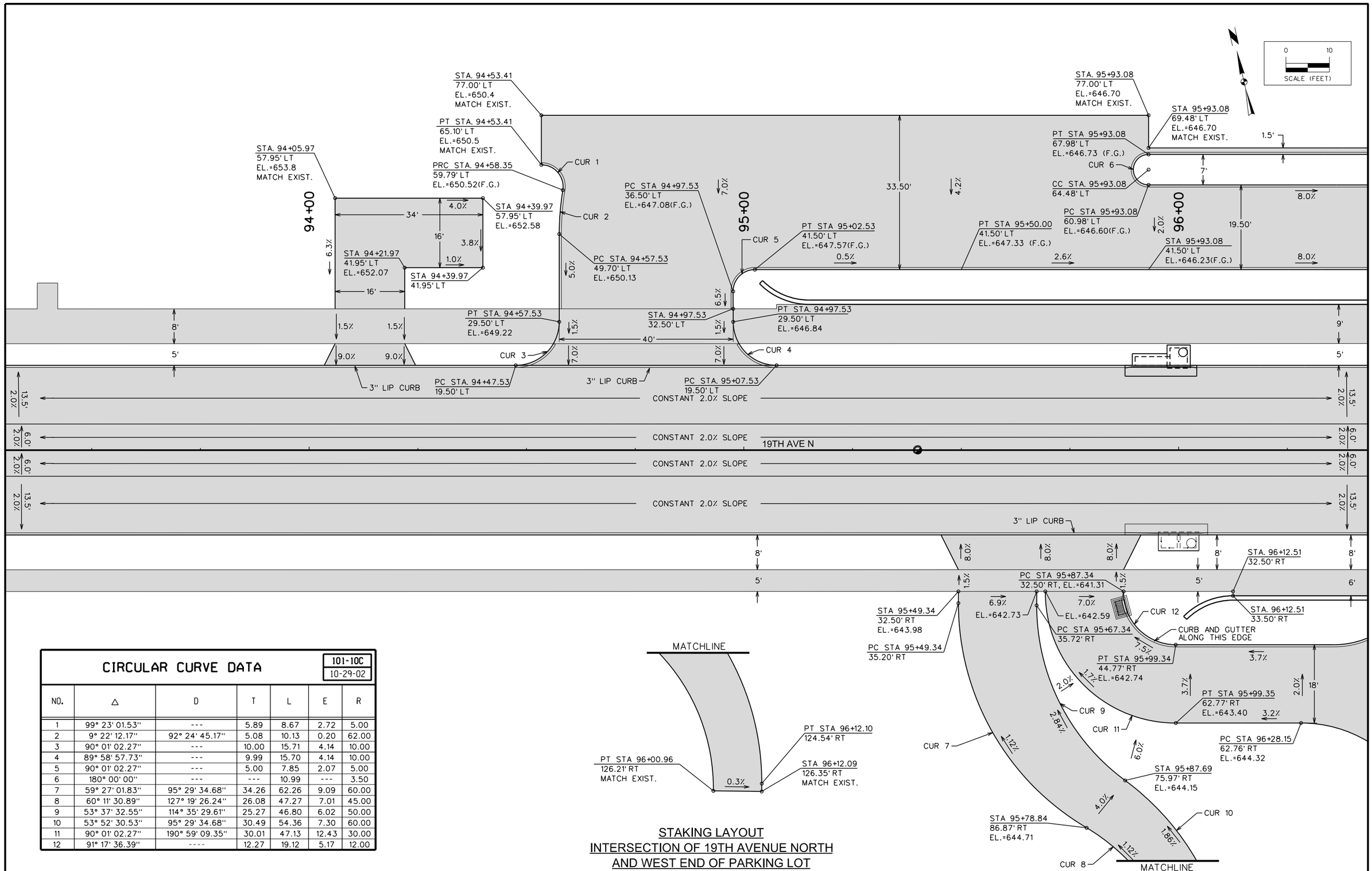


NOTES:

1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

JOINTING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH
AND NORTH 5TH STREET

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.10



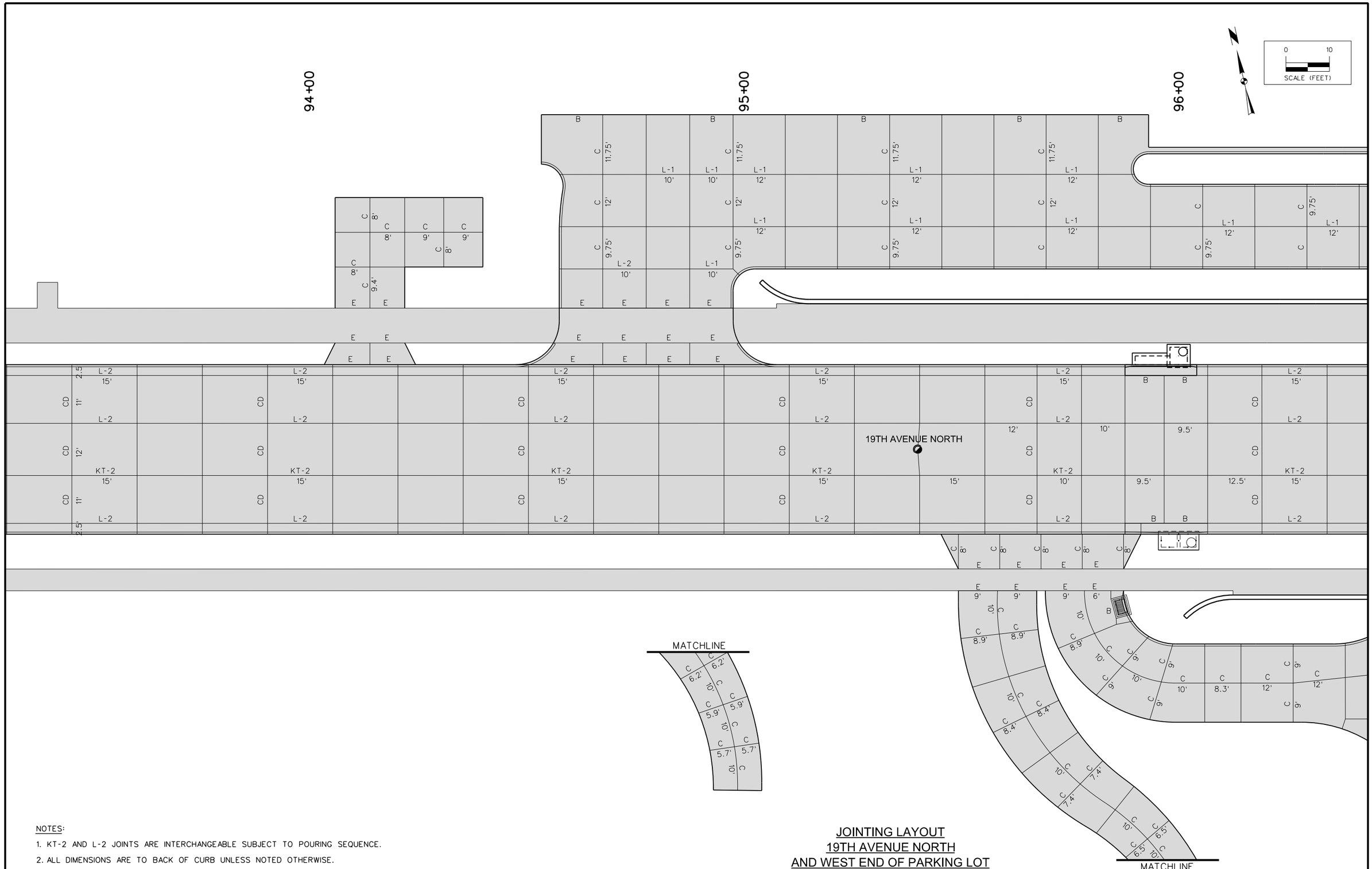
CIRCULAR CURVE DATA

101-10C
10-29-02

NO.	Δ	D	T	L	E	R
1	99° 23' 01.53"	---	5.89	8.67	2.72	5.00
2	9° 22' 12.17"	92° 24' 45.17"	5.08	10.13	0.20	62.00
3	90° 01' 02.27"	---	10.00	15.71	4.14	10.00
4	89° 58' 57.73"	---	9.99	15.70	4.14	10.00
5	90° 01' 02.27"	---	5.00	7.85	2.07	5.00
6	180° 00' 00"	---	---	10.99	---	3.50
7	59° 27' 01.83"	95° 29' 34.68"	34.26	62.26	9.09	60.00
8	60° 11' 30.89"	127° 19' 26.24"	26.08	47.27	7.01	45.00
9	53° 37' 32.55"	114° 35' 29.61"	25.27	46.80	6.02	50.00
10	53° 52' 30.53"	95° 29' 34.68"	30.49	54.36	7.30	60.00
11	90° 01' 02.27"	190° 59' 09.35"	30.01	47.13	12.43	30.00
12	91° 17' 36.39"	----	12.27	19.12	5.17	12.00

STAKING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH
AND WEST END OF PARKING LOT

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.11

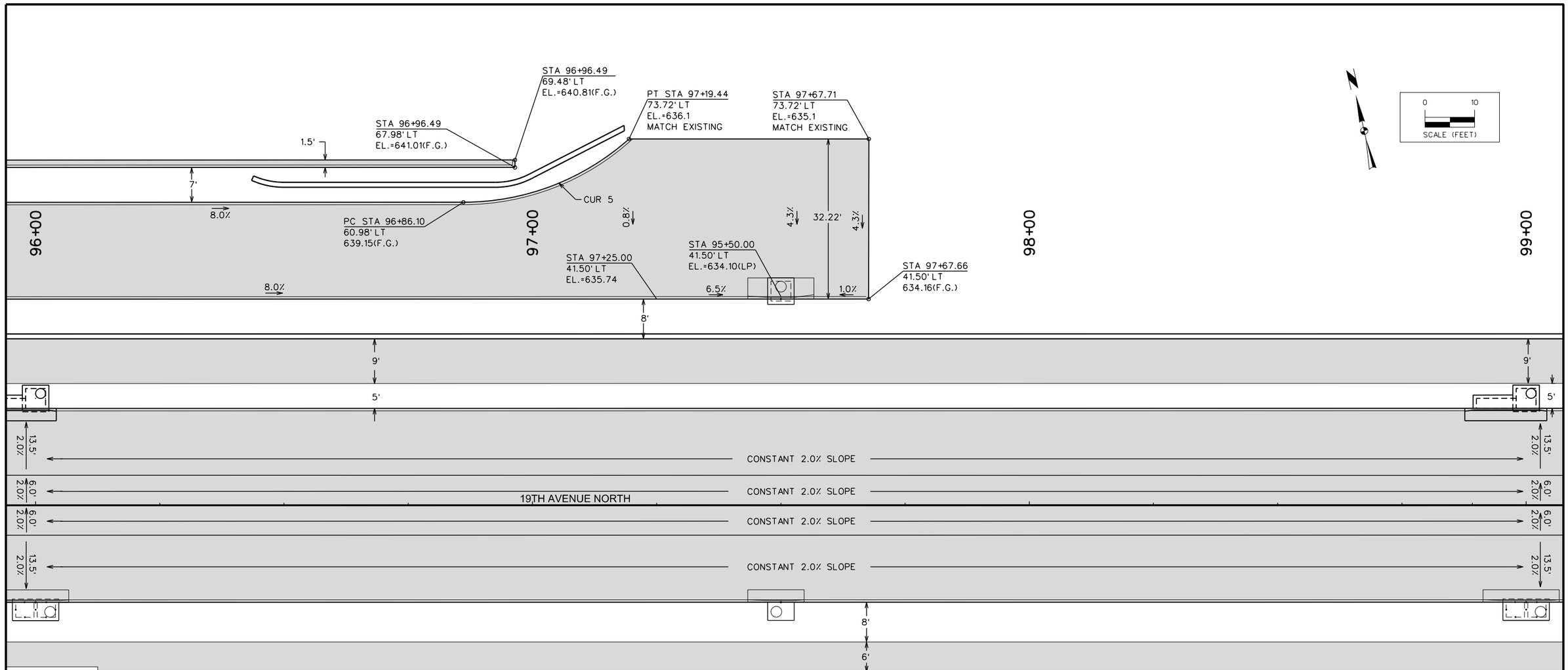


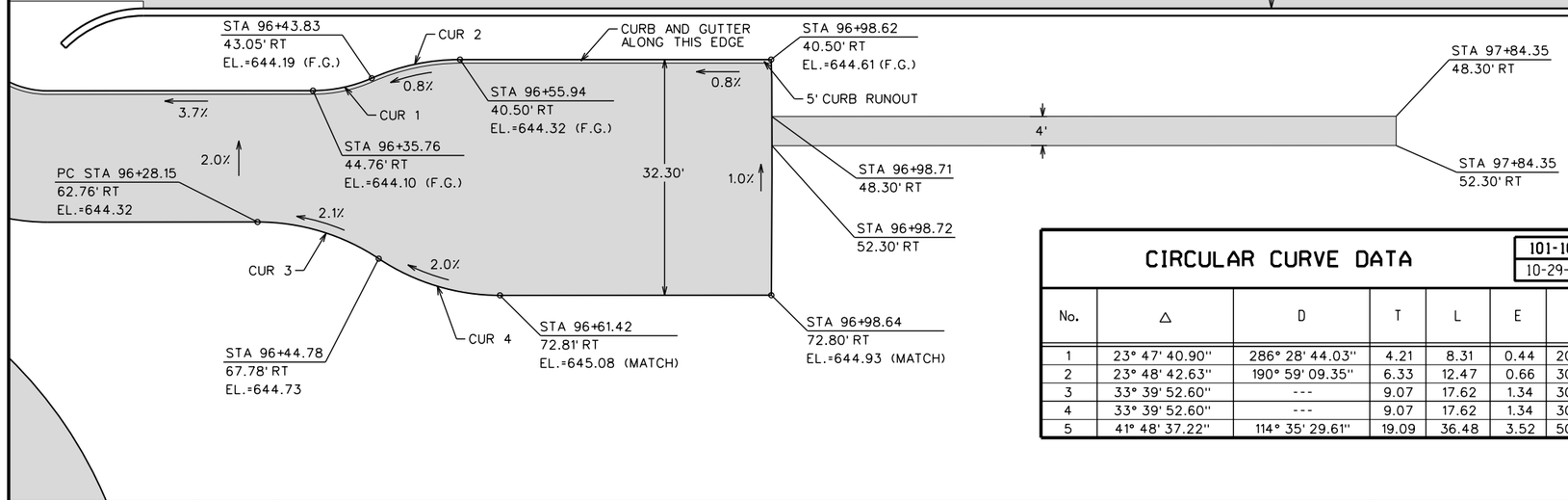
NOTES:

1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

JOINTING LAYOUT
19TH AVENUE NORTH
AND WEST END OF PARKING LOT

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.12



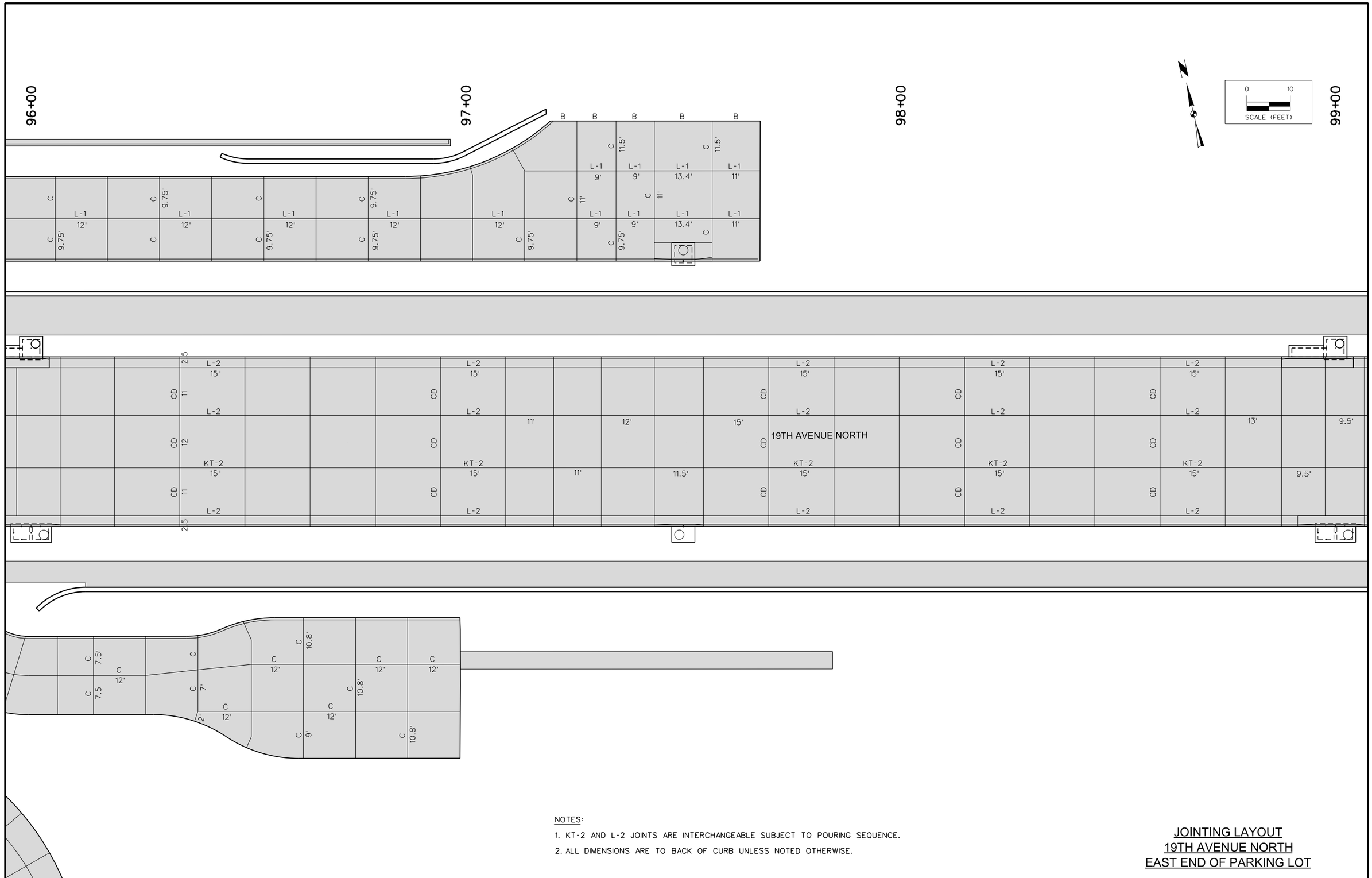


CIRCULAR CURVE DATA

101-10C
10-29-02

No.	Δ	D	T	L	E	R
1	23° 47' 40.90"	286° 28' 44.03"	4.21	8.31	0.44	20.00
2	23° 48' 42.63"	190° 59' 09.35"	6.33	12.47	0.66	30.00
3	33° 39' 52.60"	---	9.07	17.62	1.34	30.00
4	33° 39' 52.60"	---	9.07	17.62	1.34	30.00
5	41° 48' 37.22"	114° 35' 29.61"	19.09	36.48	3.52	50.00

STAKING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH
AND EAST END OF PARKING LOT



NOTES:

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2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

JOINTING LAYOUT
19TH AVENUE NORTH
EAST END OF PARKING LOT

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.14

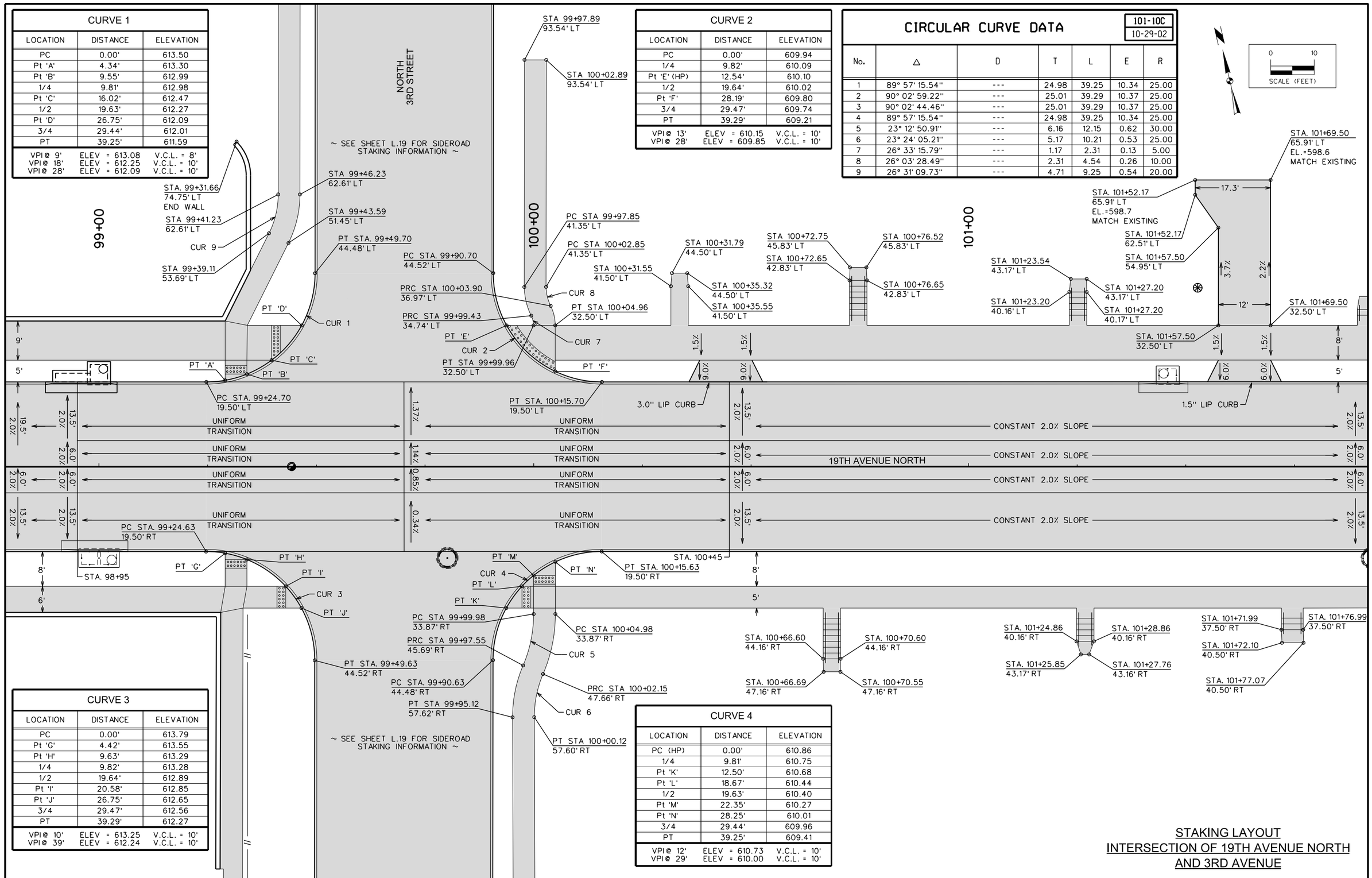
CURVE 1		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	613.50
Pt 'A'	4.34'	613.30
Pt 'B'	9.55'	612.99
1/4	9.81'	612.98
Pt 'C'	16.02'	612.47
1/2	19.63'	612.27
Pt 'D'	26.75'	612.09
3/4	29.44'	612.01
PT	39.25'	611.59
VPI @ 9'	ELEV = 613.08	V.C.L. = 8'
VPI @ 18'	ELEV = 612.25	V.C.L. = 10'
VPI @ 28'	ELEV = 612.09	V.C.L. = 10'

CURVE 2		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	609.94
1/4	9.82'	610.09
Pt 'E' (HP)	12.54'	610.10
1/2	19.64'	610.02
Pt 'F'	28.19'	609.80
3/4	29.47'	609.74
PT	39.29'	609.21
VPI @ 13'	ELEV = 610.15	V.C.L. = 10'
VPI @ 28'	ELEV = 609.85	V.C.L. = 10'

CIRCULAR CURVE DATA

101-10C
10-29-02

No.	Δ	D	T	L	E	R
1	89° 57' 15.54"	---	24.98	39.25	10.34	25.00
2	90° 02' 59.22"	---	25.01	39.29	10.37	25.00
3	90° 02' 44.46"	---	25.01	39.29	10.37	25.00
4	89° 57' 15.54"	---	24.98	39.25	10.34	25.00
5	23° 12' 50.91"	---	6.16	12.15	0.62	30.00
6	23° 24' 05.21"	---	5.17	10.21	0.53	25.00
7	26° 33' 15.79"	---	1.17	2.31	0.13	5.00
8	26° 03' 28.49"	---	2.31	4.54	0.26	10.00
9	26° 31' 09.73"	---	4.71	9.25	0.54	20.00

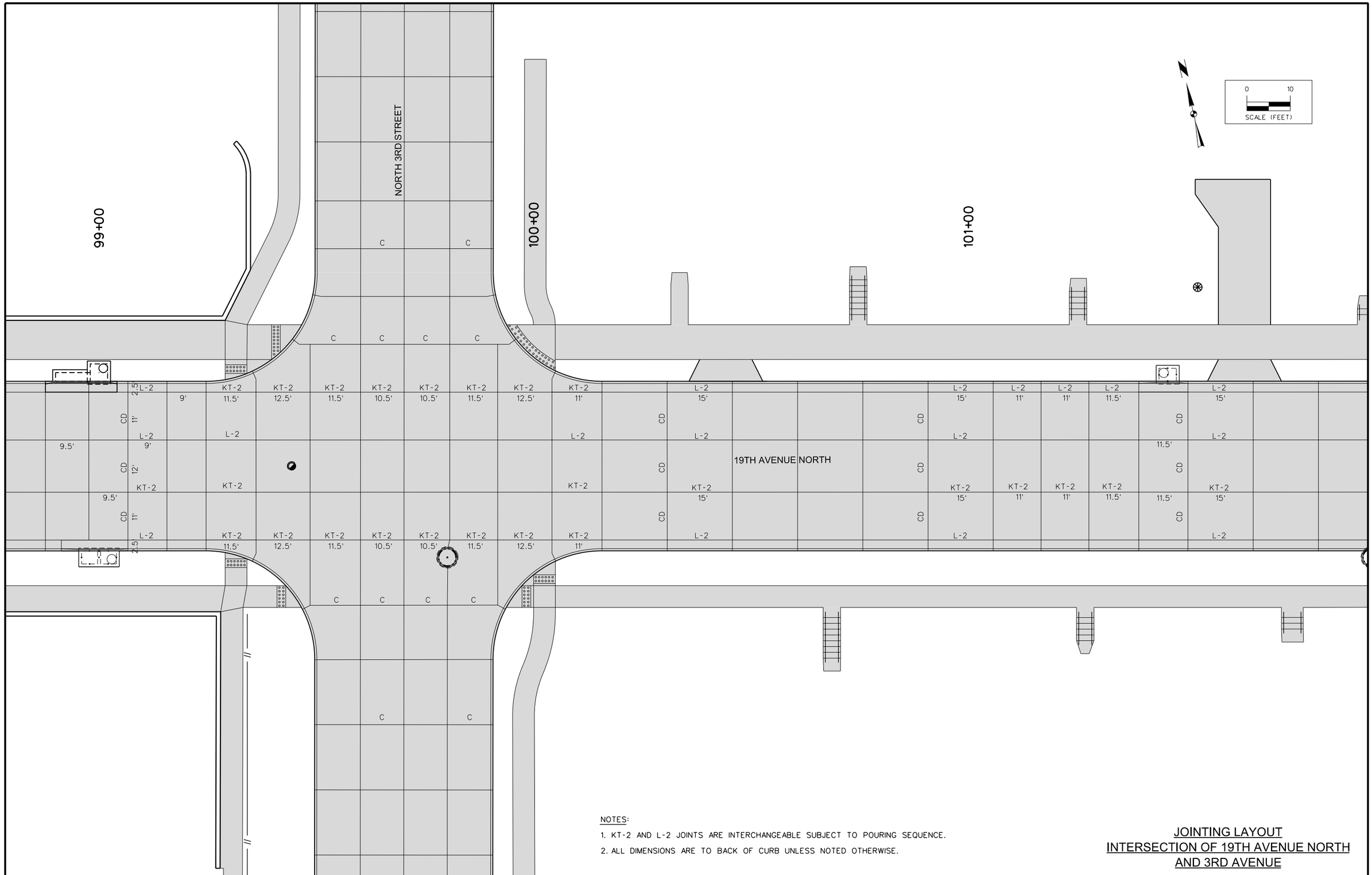


CURVE 3		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	613.79
Pt 'G'	4.42'	613.55
Pt 'H'	9.63'	613.29
1/4	9.82'	613.28
1/2	19.64'	612.89
Pt 'I'	20.58'	612.85
Pt 'J'	26.75'	612.65
3/4	29.47'	612.56
PT	39.29'	612.27
VPI @ 10'	ELEV = 613.25	V.C.L. = 10'
VPI @ 39'	ELEV = 612.24	V.C.L. = 10'

CURVE 4		
LOCATION	DISTANCE	ELEVATION
PC (HP)	0.00'	610.86
1/4	9.81'	610.75
Pt 'K'	12.50'	610.68
Pt 'L'	18.67'	610.44
1/2	19.63'	610.40
Pt 'M'	22.35'	610.27
Pt 'N'	28.25'	610.01
3/4	29.44'	609.96
PT	39.25'	609.41
VPI @ 12'	ELEV = 610.73	V.C.L. = 10'
VPI @ 29'	ELEV = 610.00	V.C.L. = 10'

STAKING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH AND 3RD AVENUE

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.15

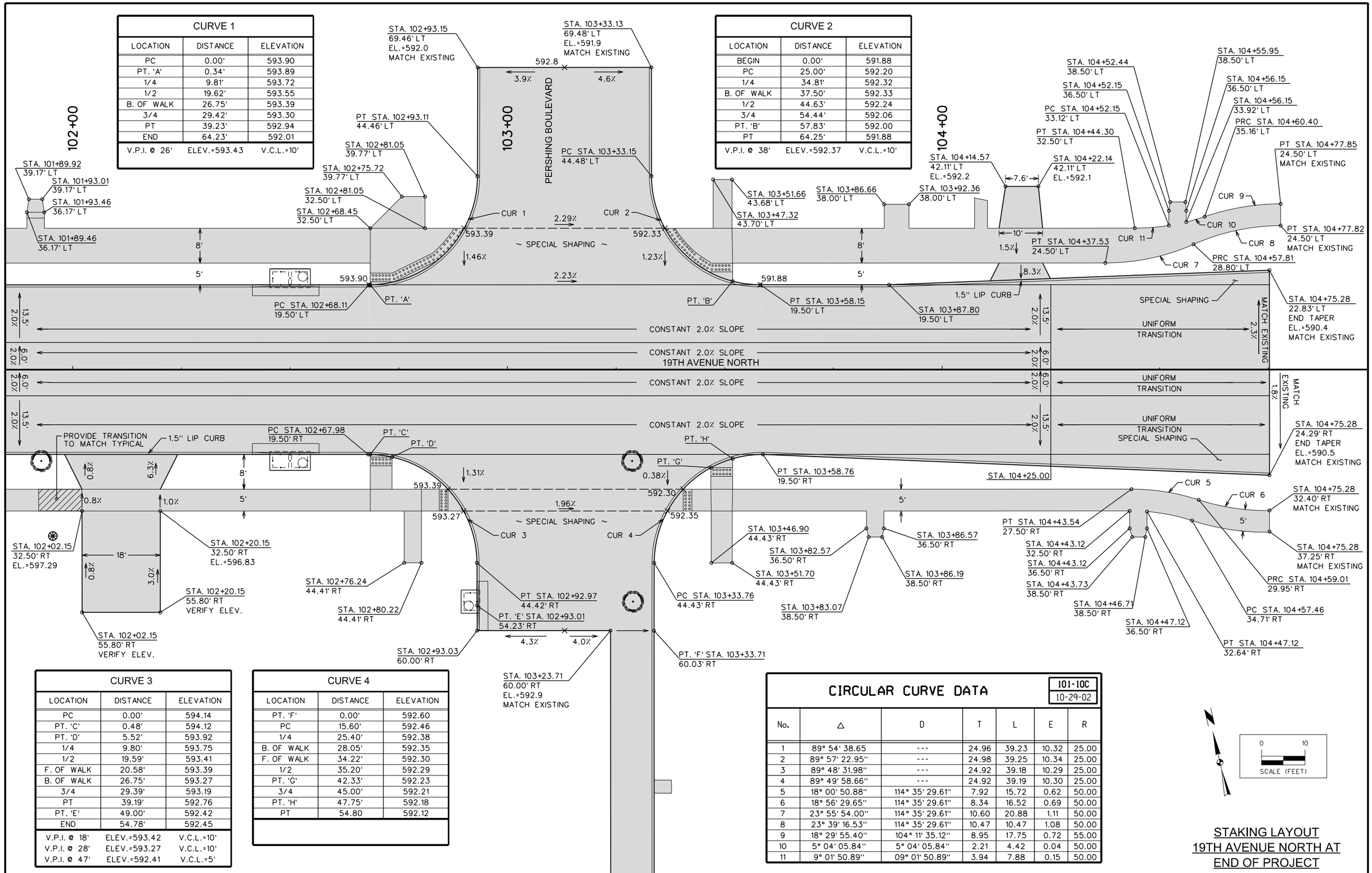


NOTES:

1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

JOINTING LAYOUT
INTERSECTION OF 19TH AVENUE NORTH AND 3RD AVENUE

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER L.16



CURVE 1		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	593.90
PT. 'A'	0.34'	593.89
1/4	9.81'	593.72
1/2	19.62'	593.55
B. OF WALK	26.75'	593.39
3/4	29.42'	593.30
PT	39.23'	592.94
END	64.23'	592.01
V.P.I. @ 26'	ELEV.=593.43	V.C.L.=10'

CURVE 2		
LOCATION	DISTANCE	ELEVATION
BEGIN	0.00'	591.88
PC	25.00'	592.20
1/4	34.81'	592.32
B. OF WALK	37.50'	592.33
1/2	44.63'	592.24
3/4	54.44'	592.06
PT. 'B'	57.83'	592.00
PT	64.25'	591.88
V.P.I. @ 38'	ELEV.=592.37	V.C.L.=10'

CURVE 3		
LOCATION	DISTANCE	ELEVATION
PC	0.00'	594.14
PT. 'C'	0.48'	594.12
PT. 'D'	5.52'	593.92
1/4	9.80'	593.75
1/2	19.59'	593.41
F. OF WALK	20.58'	593.39
B. OF WALK	26.75'	593.27
3/4	29.39'	593.19
PT	39.19'	592.76
PT. 'E'	49.00'	592.42
END	54.78'	592.45
V.P.I. @ 18'	ELEV.=593.42	V.C.L.=10'
V.P.I. @ 28'	ELEV.=593.27	V.C.L.=10'
V.P.I. @ 47'	ELEV.=592.41	V.C.L.=5'

CURVE 4		
LOCATION	DISTANCE	ELEVATION
PT. 'F'	0.00'	592.60
PC	15.60'	592.46
1/4	25.40'	592.38
B. OF WALK	28.05'	592.35
F. OF WALK	34.22'	592.30
1/2	35.20'	592.29
PT. 'G'	42.33'	592.23
3/4	45.00'	592.21
PT. 'H'	47.75'	592.18
PT	54.80	592.12

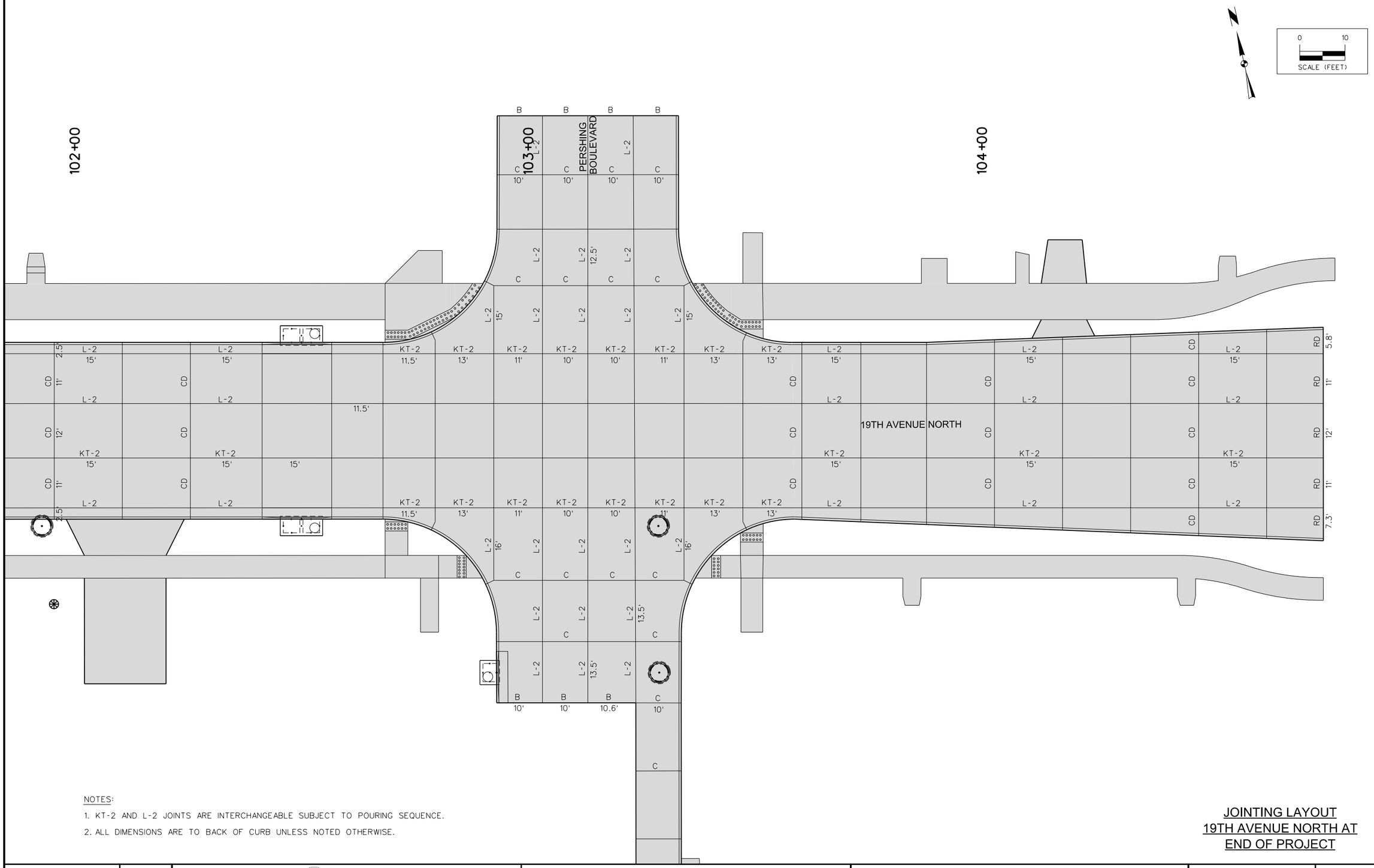
CIRCULAR CURVE DATA

101-10C
10-29-02

No.	Δ	D	T	L	E	R
1	89° 54' 38.65	---	24.96	39.23	10.32	25.00
2	89° 57' 22.95"	---	24.98	39.25	10.34	25.00
3	89° 48' 31.98"	---	24.92	39.18	10.29	25.00
4	89° 49' 58.66"	---	24.92	39.19	10.30	25.00
5	18° 00' 50.88"	114° 35' 29.61"	7.92	15.72	0.62	50.00
6	18° 56' 29.65"	114° 35' 29.61"	8.34	16.52	0.69	50.00
7	23° 55' 54.00"	114° 35' 29.61"	10.60	20.88	1.11	50.00
8	23° 39' 16.53"	114° 35' 29.61"	10.47	10.47	1.08	50.00
9	18° 29' 55.40"	104° 11' 35.12"	8.95	17.75	0.72	55.00
10	5° 04' 05.84"	5° 04' 05.84"	2.21	4.42	0.04	50.00
11	9° 01' 50.89"	09° 01' 50.89"	3.94	7.88	0.15	50.00

STAKING LAYOUT
19TH AVENUE NORTH AT
END OF PROJECT

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.17

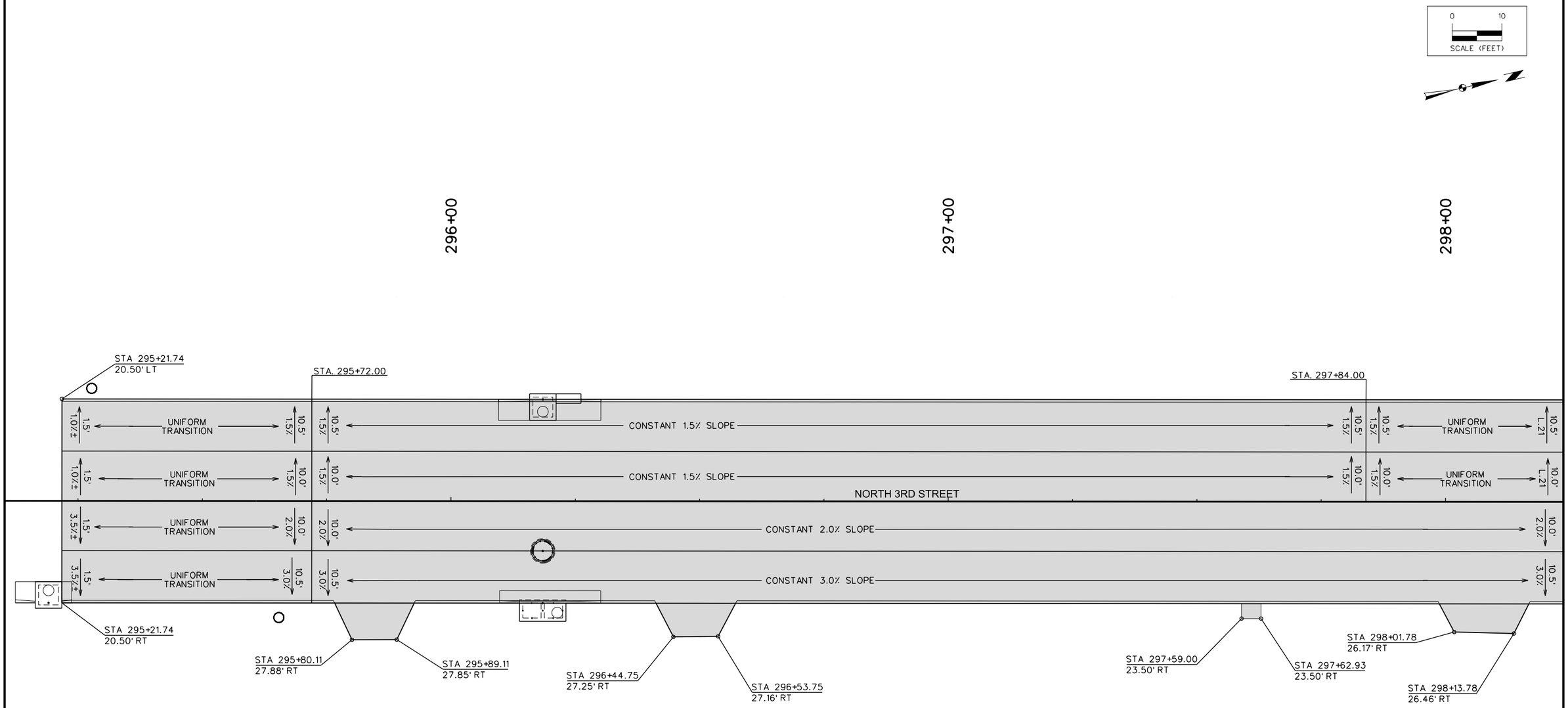


NOTES:

1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

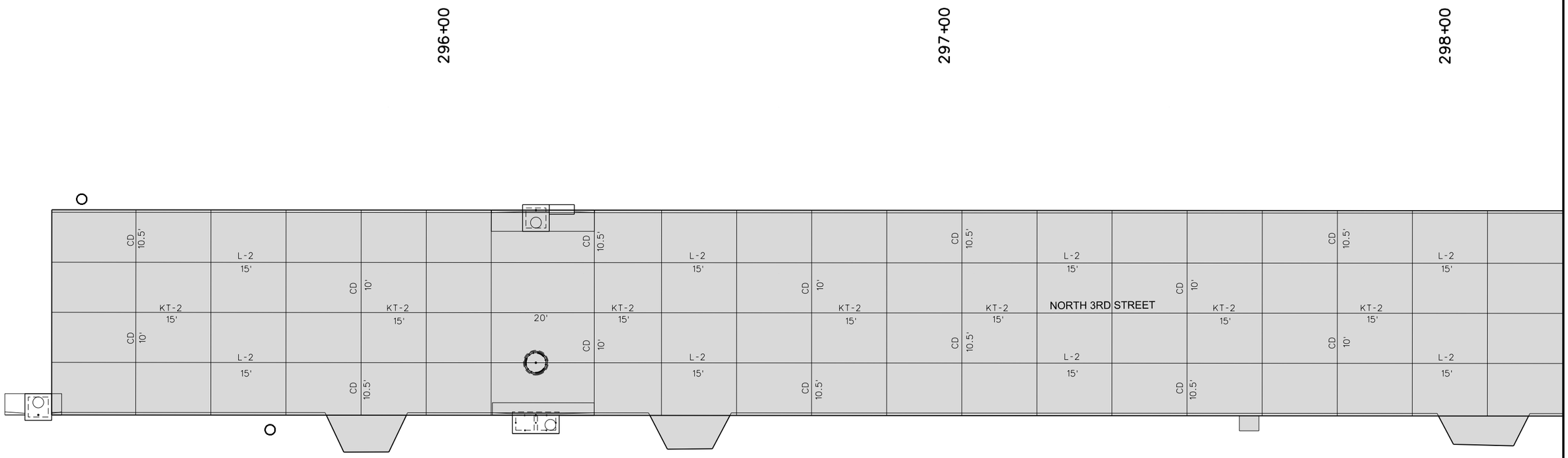
JOINTING LAYOUT
19TH AVENUE NORTH AT
END OF PROJECT

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER L.18



STAKING LAYOUT
NORTH 3RD AVENUE

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER L.19

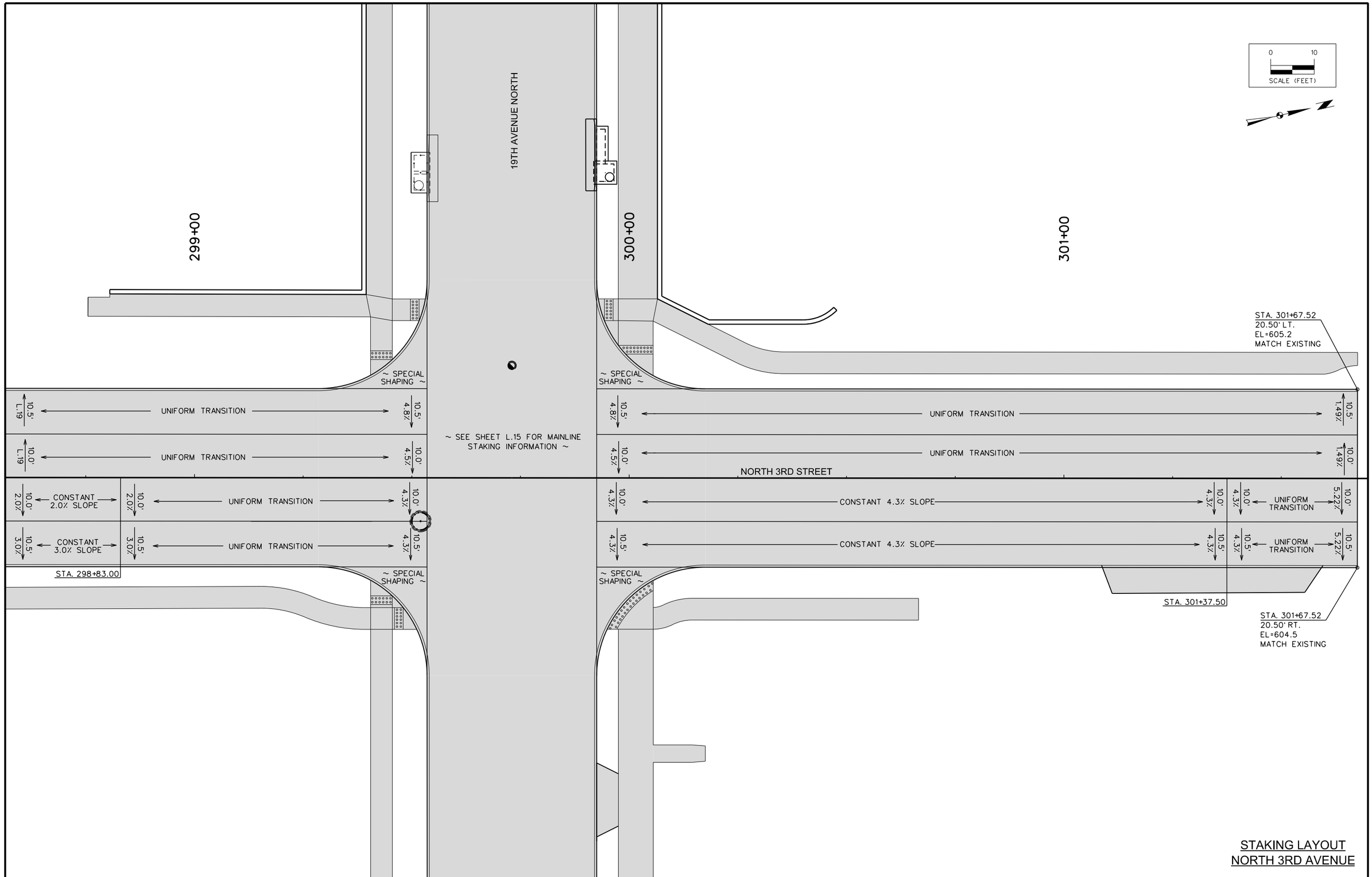


NOTES:

1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

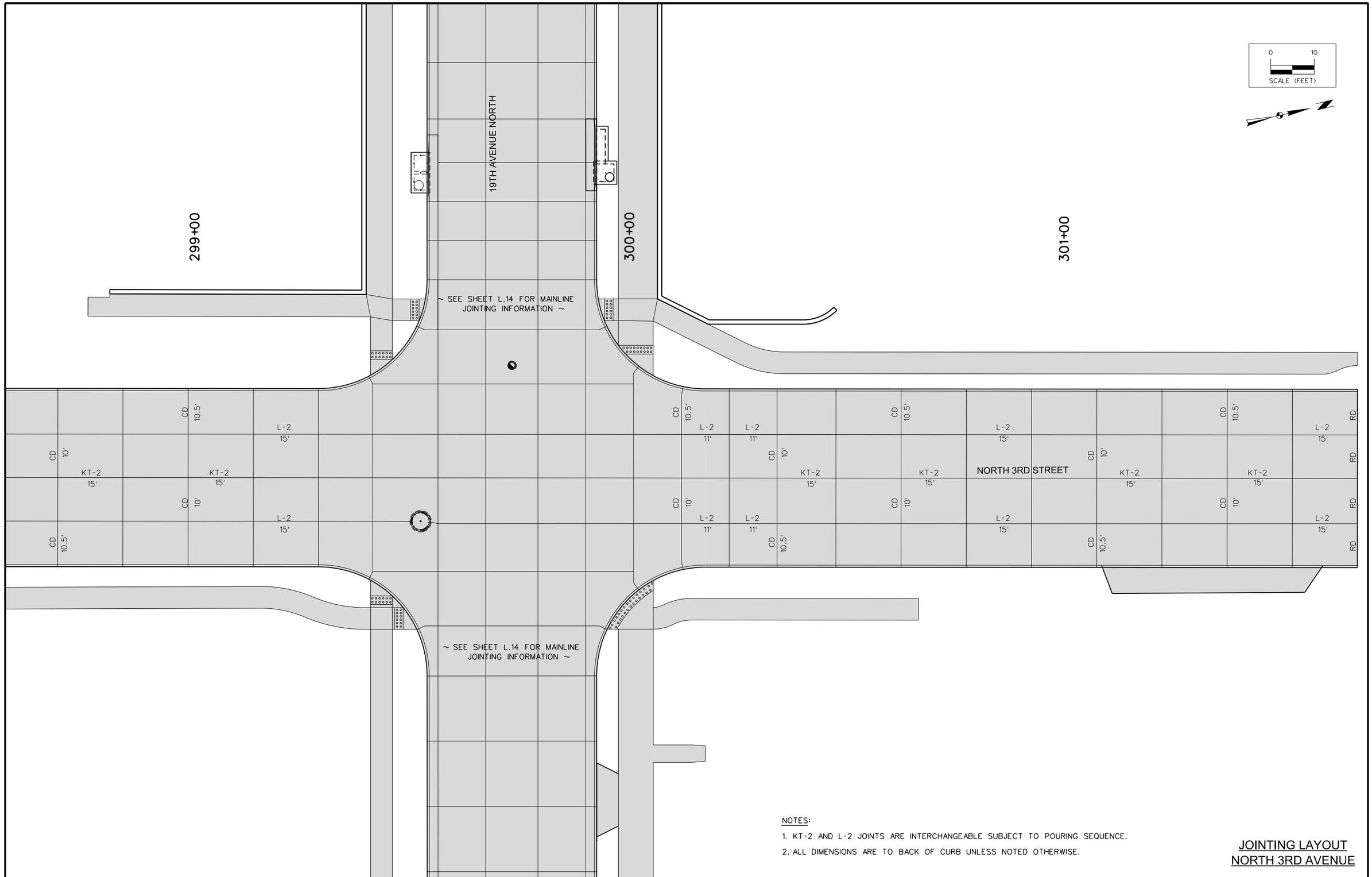
JOINTING LAYOUT
NORTH 3RD AVENUE

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER L.20



STAKING LAYOUT
NORTH 3RD AVENUE

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.21



NOTES:

1. KT-2 AND L-2 JOINTS ARE INTERCHANGEABLE SUBJECT TO POURING SEQUENCE.
2. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.

JOINTING LAYOUT
NORTH 3RD AVENUE

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	L.22

LIST OF INTAKES AND UTILITY ACCESSES

* Bid Item

** For SW-545

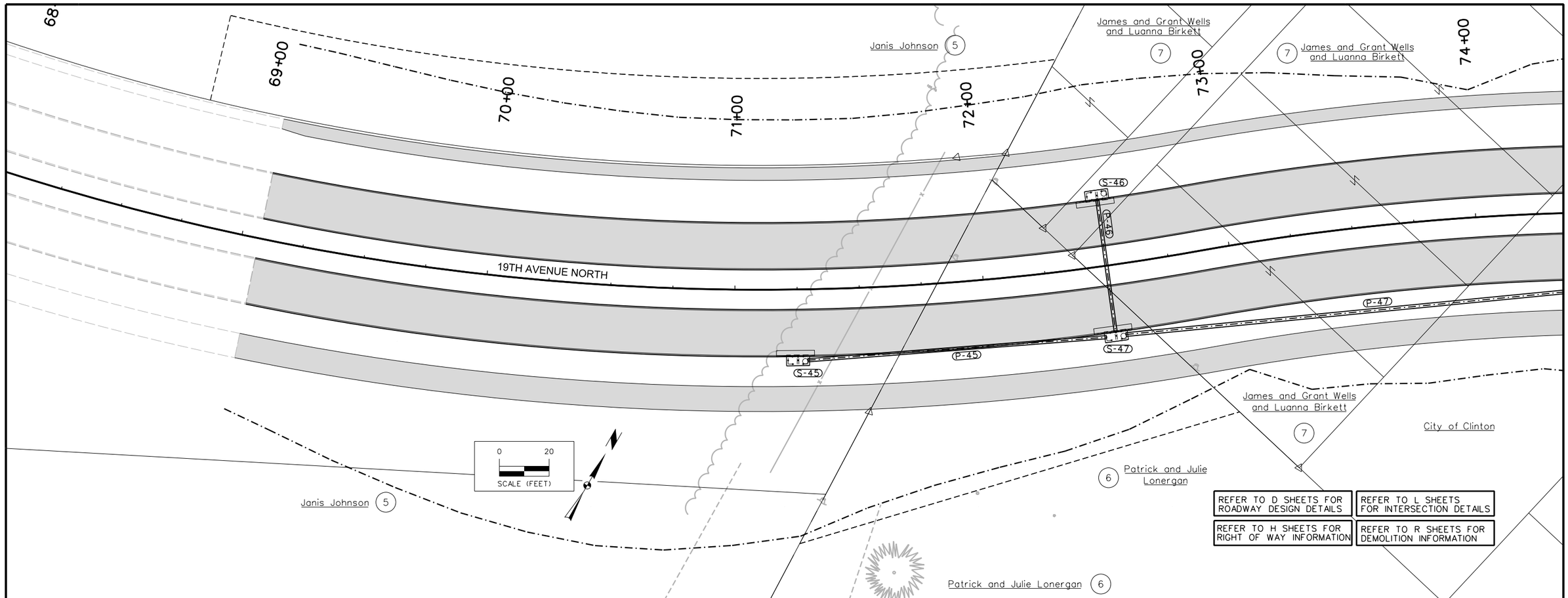
Number	Location Station or Offset	Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** Feet	Notes
S-45	71+25.00, 27.00	SW-509	704.76	699.01		
S-46	72+50.00, -27.00	SW-509	699.85	694.10		
S-47	72+50.00, 27.00	SW-509	699.85	692.72		
S-48	74+50.00, 57.00	SW-512	691.00	685.50		30" DIAMETER, TYPE 5 CASTING
S-49	74+75.00, -27.00	SW-507	690.53	684.78		
S-50	74+75.00, 27.00	SW-507	690.53	683.40		
S-51	78+34.36, 64.14	SW-512	690.50	685.50		30" DIAMETER, TYPE 5 CASTING
S-52	78+00.00, -27.00	SW-509	693.28	687.53		
S-53	78+00.00, 27.00	SW-509	693.27	684.75		
S-54	76+50.00, 27.00	SW-507	689.54	683.05		
S-55	76+50.00, -27.00	SW-507	689.54	683.79		
S-56	75+92.13, 27.00	SW-509	689.23	681.82		
S-57	75+92.13, -27.00	SW-509	689.23	678.95		
S-58	76+19.46, -100.15	RF-3	674.68	-		24" DIAMETER - F/G EQUALS THE FLOWLINE
S-59	83+50.00, -19.50	SW-509	692.71	688.34		
S-60	83+50.00, 19.50	SW-509	692.95	687.26		
S-61	85+25.00, -19.50	SW-509	686.69	682.63		CAST IN PLACE CONSTRUCTION
S-62	85+25.00, 19.50	SW-509	686.93	681.94		
S-63	87+00.00, 19.50	SW-509	680.92	676.45		
S-64	88+75.00, -19.50	SW-509	674.67	668.92		
S-65	88+75.00, 19.50	SW-509	674.91	667.34		
S-66	90+50.00, 19.50	SW-507	667.63	661.58		
S-67	92+20.00, -19.50	SW-545	659.80	654.25	12	
S-68	92+20.00, 19.50	SW-509	660.04	652.68		
S-69	96+00.00, -19.50	SW-545	639.16	634.97	12	CAST IN PLACE CONSTRUCTION
S-70	96+00.00, 19.50	SW-509	639.40	634.28		
S-70A	95+87.76, 35.92	SW-501	641.59	636.35		
S-71	97+50.00, -41.50	SW-541	634.47	623.40		
S-72	97+50.00, 19.50	SW-507	627.09	621.70		
S-73	99+00.00, -19.50	SW-545	614.92	610.69	12	CAST IN PLACE CONSTRUCTION
S-74	99+00.00, 19.50	SW-509	615.16	609.63		
S-75	99+80.13, 21.00	SW-401	611.02	605.51		72" DIAMETER, TYPE F CASTING
S-76A	296+18.47, -20.50	SW-541/542	608.95	604.95		CAST IN PLACE CONSTRUCTION
S-76B	296+18.47, 20.50	SW-509	608.75	604.75		CAST IN PLACE CONSTRUCTION
S-76C	296+18.47, 10.00	SW-401	609.05	604.14		72" DIAMETER, TYPE F CASTING
S-77	295+19.08, 20.50	SW-541	609.00	603.47		
S-78	101+52.75, -41.14	SW-512	599.25	594.50		24" DIAMETER, TYPE 5 CASTING
S-79	101+45.83, -19.50	SW-507	600.31	592.96		
S-80	102+50.00, -19.50	SW-507	594.58	590.15		
S-81	101+95.53, 39.00	SW-512	597.10	592.65		24" DIAMETER, TYPE 5 CASTING
S-82	101+92.77, 21.00	SW-401	598.16	591.30		48" DIAMETER, TYPE E CASTING
S-83	102+50.00, 19.50	SW-509	594.82	589.56		
S-84	103+28.68, 21.01	SW-401	592.48	588.63		48" DIAMETER, TYPE E CASTING
S-85	402+60.02, -20.33	SW-507	592.42	588.79		CAST IN PLACE CONSTRUCTION
S-86	402+60.02, 15.53	SW-401	592.63	588.42		48" DIAMETER, TYPE F CASTING
S-87	398+65.41, 20.70	SW-541	592.71	587.00		

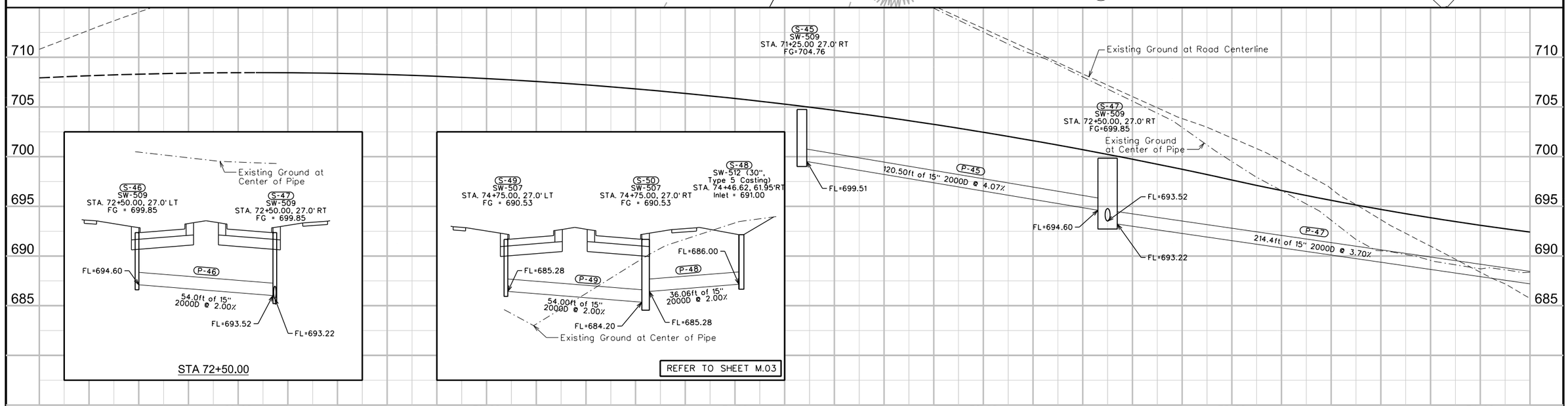
LIST OF STORM SEWER PIPE

104-5B
04-20-10

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along ℄ of pipe. An additional 6 feet is added to Design Length to account for estimated length to center of structures. Three (3) feet is added to pipe lengths with only one structure.

Line Number	Intake/Utility Access No. From	Intake/Utility Access No. To	Class 'D'	Pipe Diameter Inches	*Bid Length Feet	Design Length Feet	Slope %	Flow Lines Inlet Elevation	Flow Lines Outlet Elevation	Flow Lines Other Elevation	Pipe Profile Sheet No.	Notes
P-45	S-45	S-47	2000	15	127	120.5	4.07	699.51	694.60			
P-46	S-46	S-47	2000	15	60	54.0	2.00	694.60	693.52			
P-47	S-47	S-50	2000	15	220	214.4	3.70	693.22	685.28			
P-48	S-48	S-50	2000	15	42	36.1	2.00	686.00	685.28			
P-49	S-49	S-50	2000	15	60	54.0	2.00	685.28	684.20			
P-50	S-50	S-56	2000	18	114	107.7	1.00	683.90	682.82			
P-51	S-51	S-53	2000	15	53	47.3	1.00	686.00	685.53			
P-52	S-52	S-53	2000	15	60	54.0	2.00	688.03	686.95			
P-53	S-53	S-54	2000	15	146	139.6	1.00	685.25	683.85			
P-54	S-54	S-56	2000	18	56	50.2	1.00	683.55	683.05			
P-55	S-55	S-57	2000	15	60	53.5	2.00	684.29	683.22			
P-56	S-56	S-57	2000	24	60	54.0	1.00	682.32	681.78			
P-57	S-57	S-58	2000	24	76	76.0	7.00	679.95	674.68			DESIGN LENGTH INCLUDES APRON. TYPE 2 CONNECTION PER DR-121.
P-58	S-59	S-60	2000	15	45	39.0	1.00	688.84	688.06			
P-59	S-60	S-62	2000	15	173	167.0	3.07	687.76	682.74			
P-60	S-61	S-62	2000	15	45	39.0	1.00	683.13	682.74			
P-61	S-62	S-63	2000	15	170	167.0	3.07	682.44	677.31			
P-62	S-63	S-65	2000	15	173	167.0	3.50	676.95	671.10			
P-63	S-64	S-65	2000	15	45	39.0	2.00	669.42	668.64			
P-64	S-65	S-66	2000	15	175	169.0	3.50	668.34	662.42			
P-65	S-66	S-68	2000	15	170	164.0	4.45	662.08	654.78			
P-66	S-67	S-68	2000	15	45	39.0	2.00	654.75	653.98			
P-67	S-68	S-70	2000	15	378	372.0	5.00	653.68	635.08			
P-68	S-69	S-70	2000	15	45	39.0	1.00	635.47	635.08			
P-69	S-70	S-72	2000	18	150	144.0	7.75	634.78	623.62			
P-69A	S-70A	S-70	2000	15	23	17.0	5.00	636.85	636.00			
P-70	S-71	S-72	DIP	12	67	60.6	1.00	623.90	623.29			
P-71	S-72	S-74	2000	18	150	144.0	7.63	622.20	611.22			
P-72	S-73	S-74	2000	15	45	39.0	1.00	611.19	610.80			
P-72A	EX.	S-73	DIP	8	36	30	-	EX.	612.00			CONNECT TO EXISTING HPDE AND DROP UNDER WALL
P-73	S-74	S-75	2000	24	80	73.6	5.25	610.13	606.26			
P-74	S-75	S-76	2000	37x23	336	330.0	0.40	606.01	604.69			RCAP
P-75A	S-76A	S-76C	2000	15	31	25.0	0.50	605.45	605.32			
P-75B	S-76B	S-76C	2000	15	15	8.6	0.50	605.25	605.20			
P-75C	S-76C	S-77	2000	37x23	102	95.8	0.66	604.64	604.01			RCAP
P-76	S-78	S-79	2000	15	25	18.9	2.00	596.00	595.62			
P-77	S-79	S-80	2000	15	106	100.2	2.60	593.46	590.85			
P-78	S-81	S-82	2000	15	21	14.5	2.00	593.15	592.86			
P-79	S-82	S-83	2000	15	57	51.2	2.00	591.80	590.78			
P-80	S-80	S-83	2000	15	45	39.0	1.00	590.65	590.26			
P-81	S-83	S-84	2000	15	79	72.7	1.00	590.06	589.23			
P-82	S-84	S-86	2000	15	34	28.3	0.40	589.13	589.02			
P-83	S-85	S-86	2000	15	40	34.0	0.50	589.29	589.12			
P-84	S-86	S-87	PVC	15	396	390.0	0.30	588.92	587.75			





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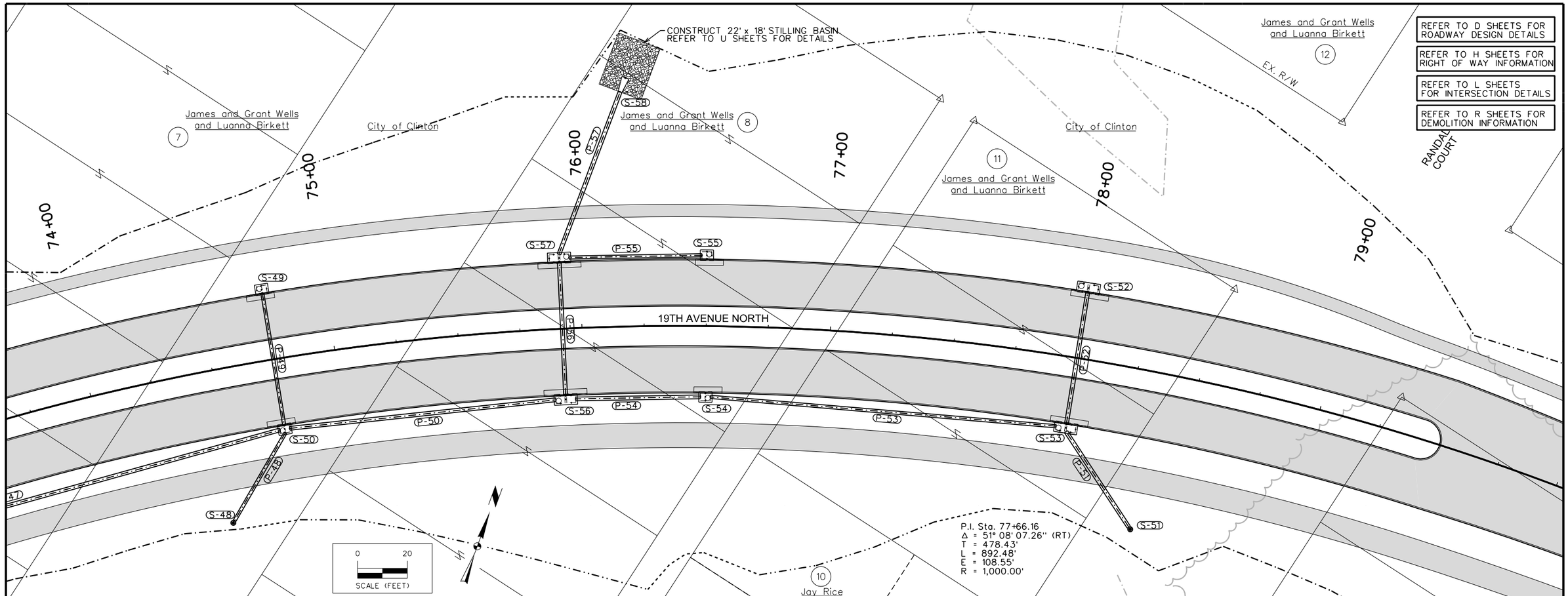
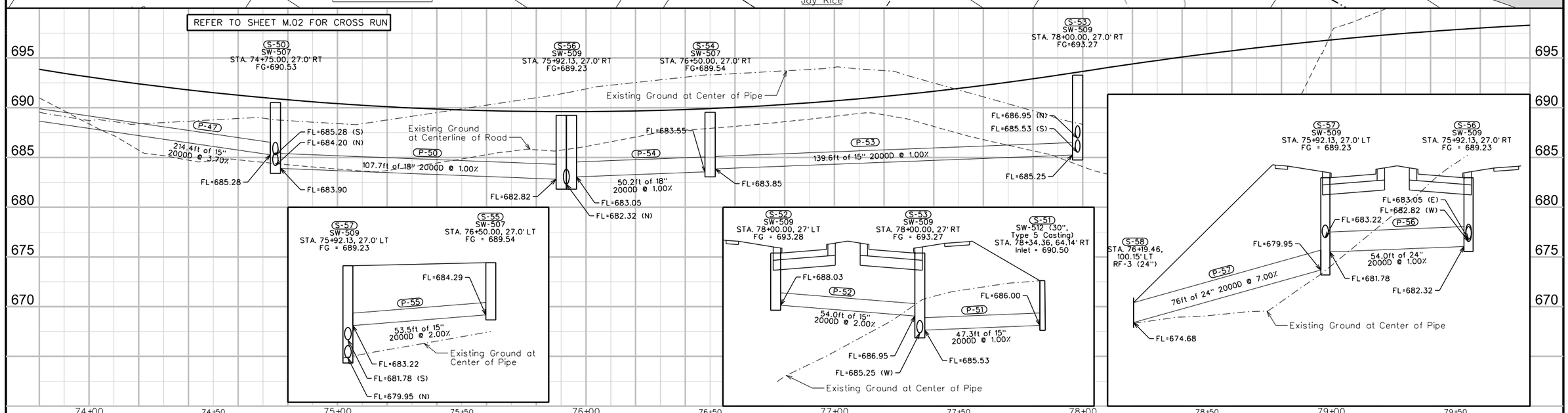


REFER TO SHEET M.02 FOR CROSS RUN



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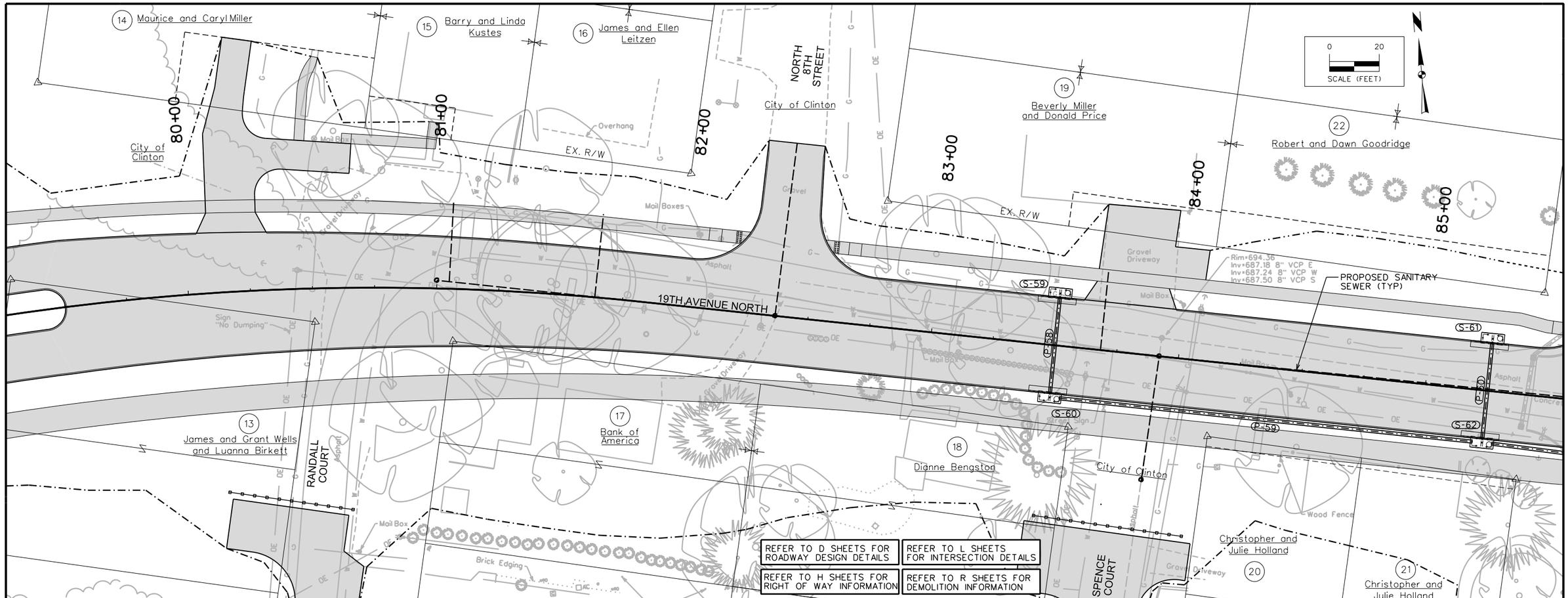

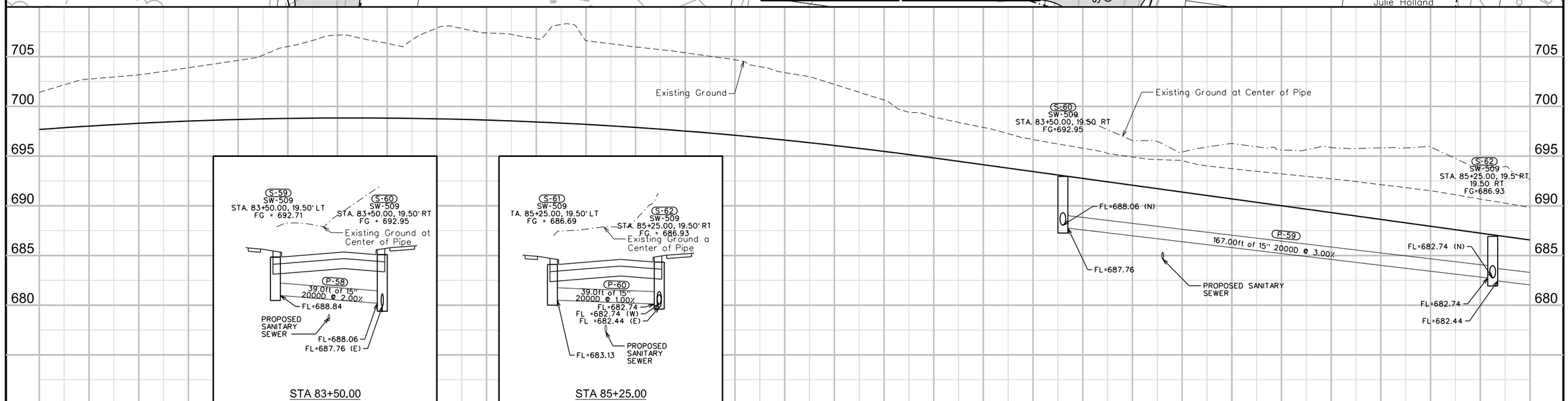

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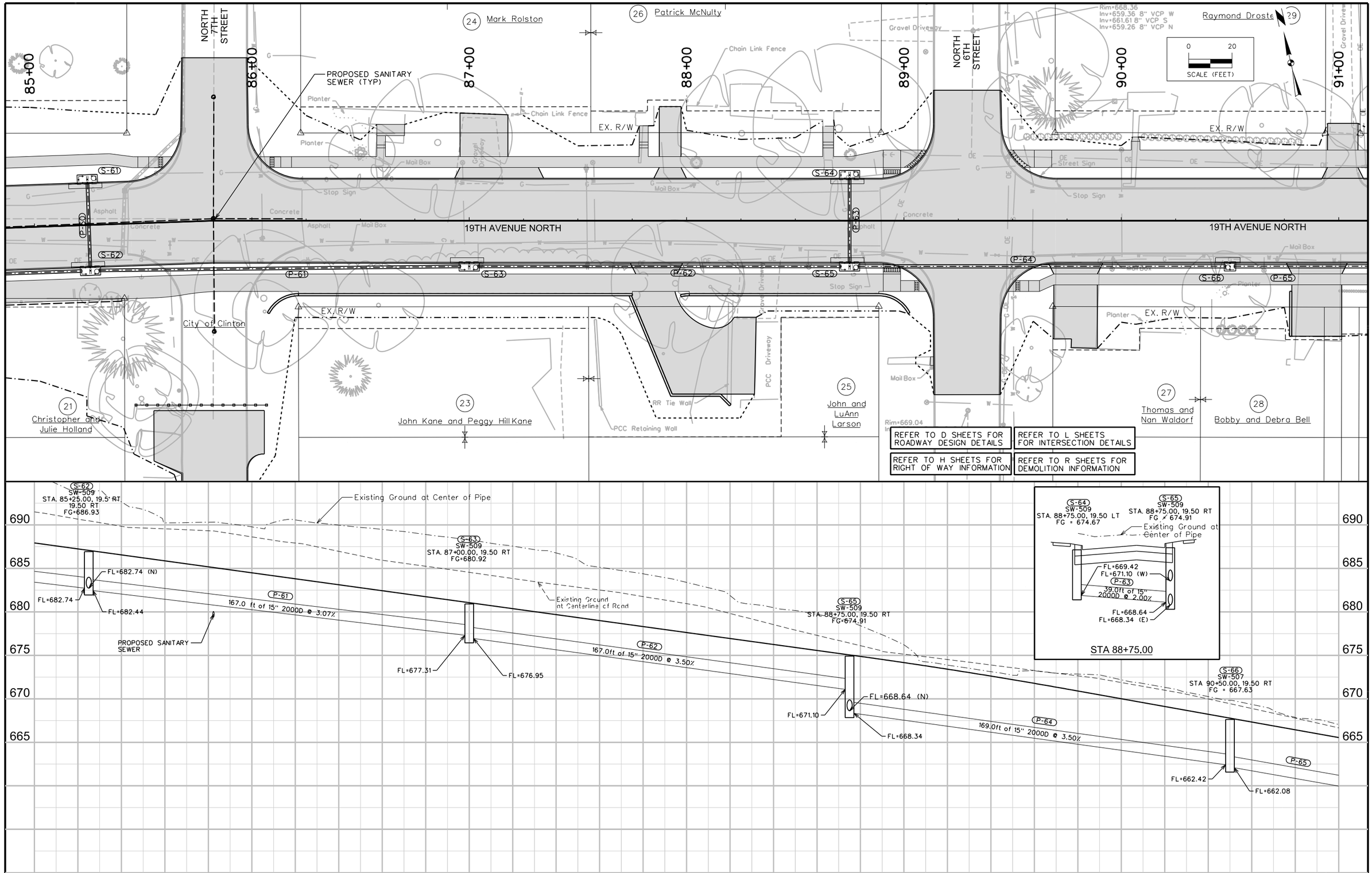

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER M.5

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Judith Long (31)

SCALE (FEET) 0 20

NORTH 5TH STREET

Donna Peters (33)

Lee and Amy Stonebrook (34)

91+00 92+00 93+00 94+00 95+00 96+00 97+00

Gravel Drive

EX. R/W

Planter

Guard Post

Rim=640.54
F.L.=634.03 12" CMP E
F.L.=634.99 12" RCP W
F.L.=636.68 4" DIP NW

PROPOSED SANITARY SEWER (TYP)

Stop Sign

Sign "Admin Building"

Sign "No Parking"

(S-67) (S-69)

Test Station

Mail Box

19TH AVENUE NORTH

Rim=656.69
Inv=651.29 6" VCP SW
Inv=648.79 8" VCP N
Inv=654.89 12" PVC W

Stop/Sign

(P-65) (S-68) (P-67) (S-70) (P-69) (P-69A) (S-70A)

Sign "No Drag Zone"

Street Sign

6" Intake - Filled with Silt

Chain Link Fence

David and Bonnie Barr (32)

REFER TO D SHEETS FOR ROADWAY DEISGN DETAILS

REFER TO H SHEETS FOR RIGHT OF WAY INFORMATION

REFER TO L SHEETS FOR INTERSECTION DETAILS

REFER TO R SHEETS FOR DEMOLITION INFORMATION

(35) Ralph Neiderhiser

(32) David and Bonnie Barr

Existing Ground at Centerline of Road

665 660 655 650 645 640 635 630

(S-68) SW-507 STA 92+20.00, 19.50' RT FG = 660.04

(P-65) 164.0ft of 15" 2000D @ 4.45%

FL=653.98

FL=654.78

FL=653.68

Existing Ground at Center of Pipe

(P-67) 372.0ft of 15" 2000D @ 5.00%

(S-70) SW-509 STA 96+00.00, 19.50' RT FG = 639.40

FL=635.08 (N)

FL=635.08

FL=634.78

144.0ft of 18" 2000D @ 7.75%

(P-69)

PROPOSED SANITARY SEWER

REFER TO SHEET M.07

(S-71) SW-541 STA. 97+50.00, 41.50' LT FG = 634.47

Existing Ground at Center of Pipe

(S-72) SW-507 STA. 97+50.00 19.50' RT FG = 627.09

FL=623.90

(P-70)

60.6ft of 12" DIP @ 1.00%

PROPOSED SANITARY SEWER

FL=623.62 (E)

FL=623.29

FL=622.20 (W)

(S-67) SW-545 (12') STA. 92+20.00 19.50' LT FG = 659.80

Existing Ground at Center of Pipe

(S-68) SW-509 STA. 92+20.00 19.50' RT FG = 660.04

FL=654.78 (W)

FL=653.68 (E)

(P-66) 39.0ft of 15" 2000D @ 2.00%

FL=653.98

FL=654.76

(S-69) SW-545 (12') STA. 96+00.00, 19.5' LT FG = 639.16

Existing Ground at Center of Pipe

(S-70) SW-509 STA. 96+00.00, 19.5' RT FG = 639.40

(S-70A) SW-501 STA. 95+87.76, 35.92 RT FG = 641.59

(P-69A)

FL=636.85

(P-68) 39.0ft of 15" 2000D @ 1.00%

FL=635.47

PROPOSED 8" SANITARY SEWER

FL=635.08

FL=635.08 (W)

FL=634.78 (E)

17.0ft of 15" 2000D @ 5.0%

FL=636.00

91+00 91+50 92+00 92+50 93+00 93+50 94+00 94+50 95+00 95+50 96+00 96+50 97+00

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	M.6

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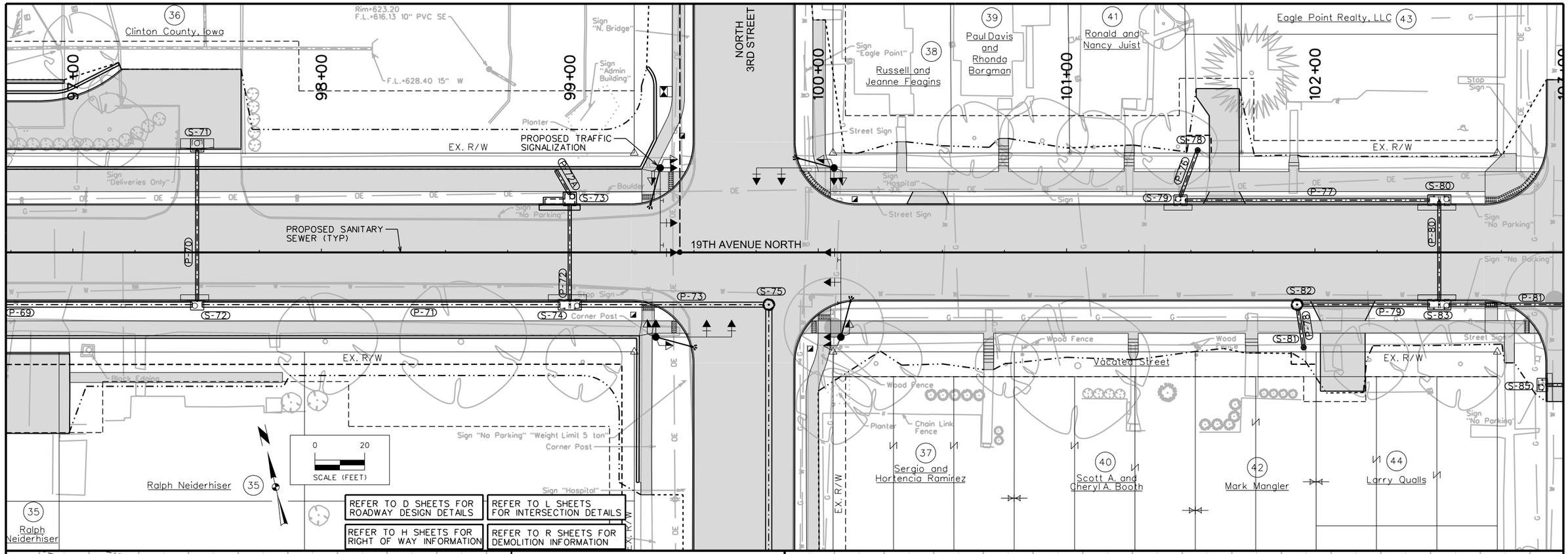
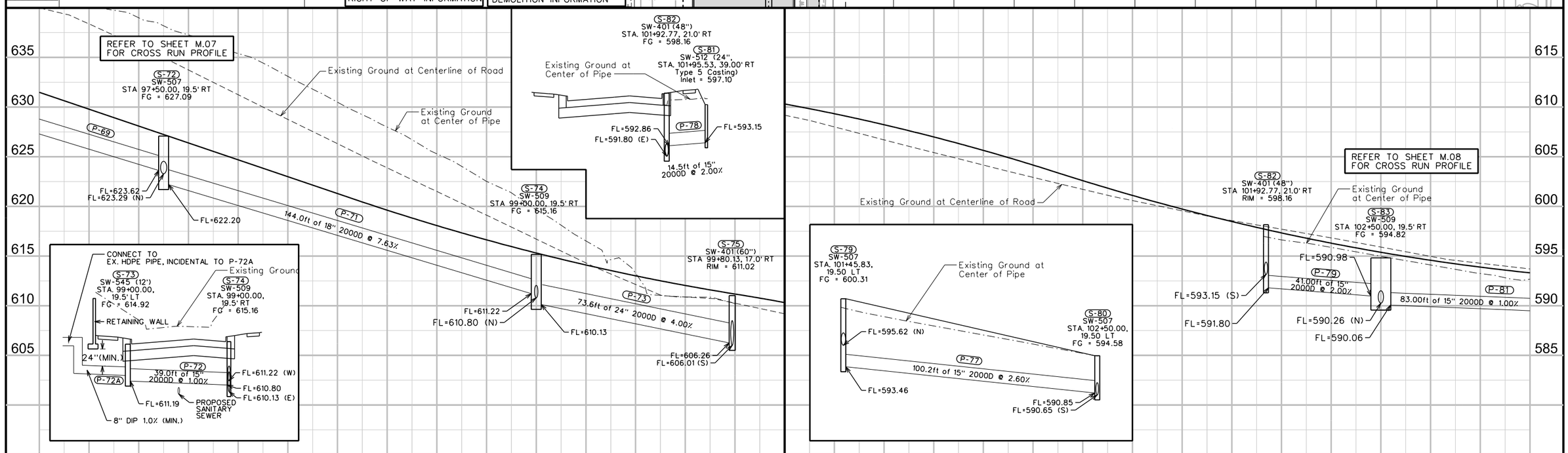
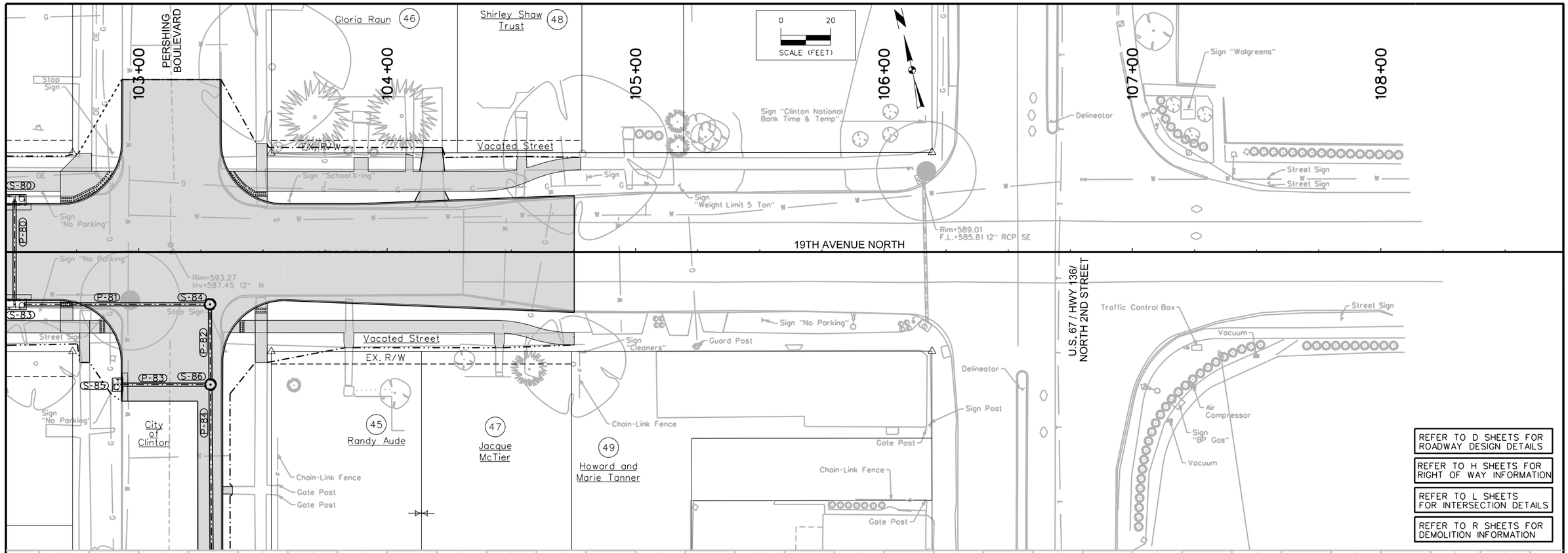
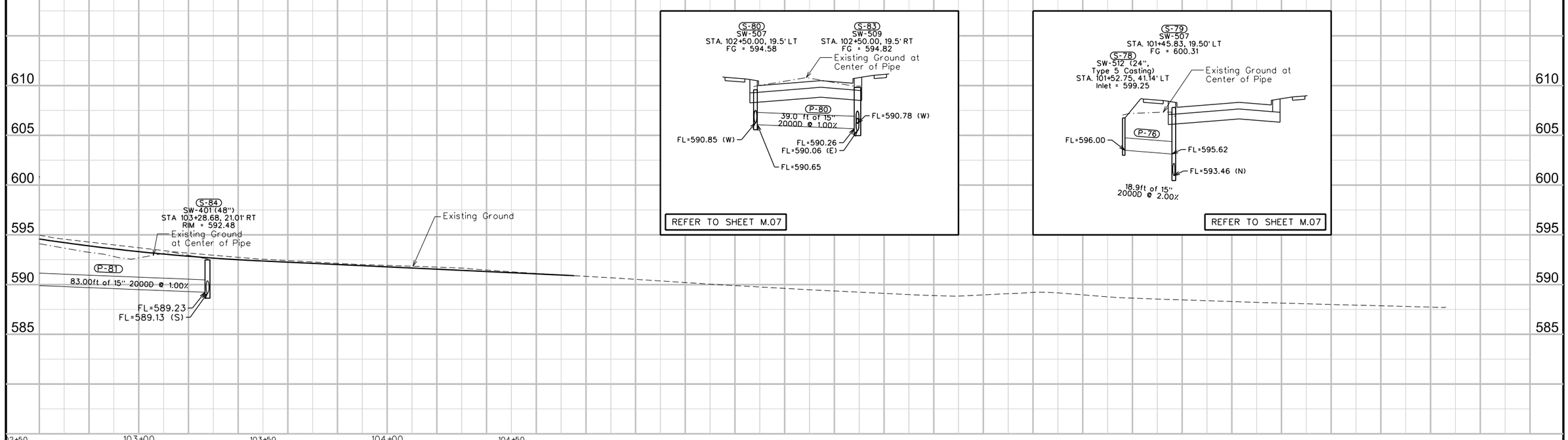




ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	M.7





ENGLISH	IOWA DOT	DESIGN TEAM	Snyder & Associates	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	M.8

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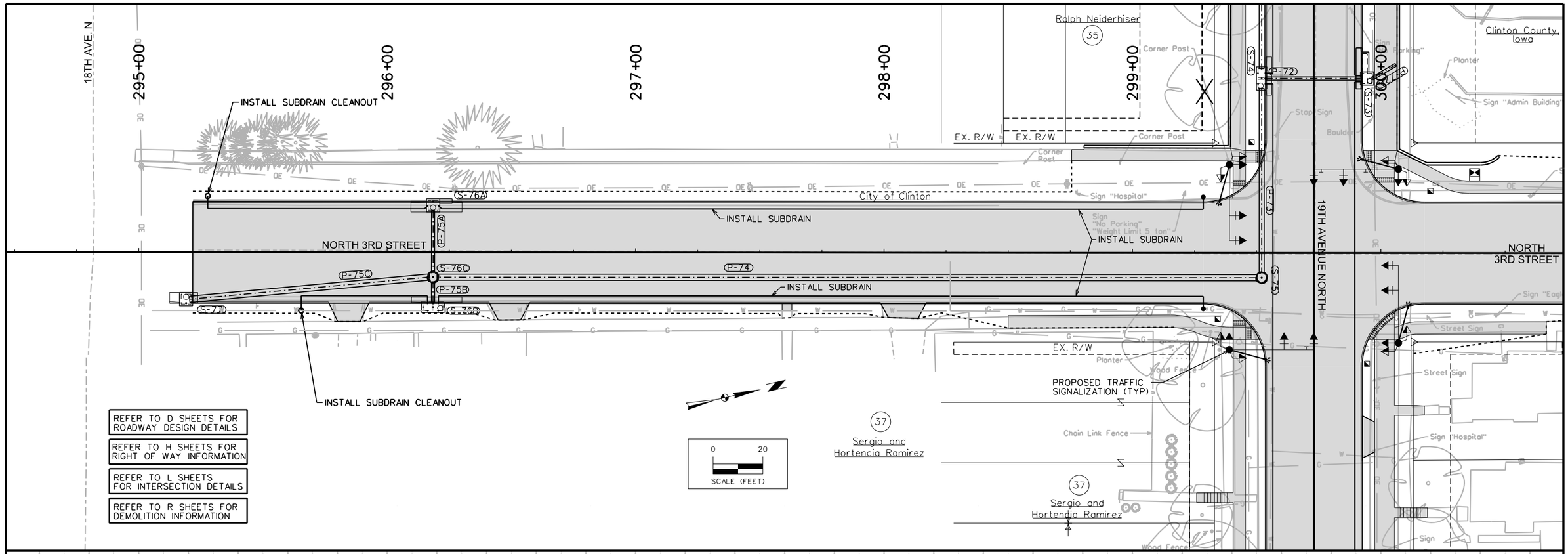

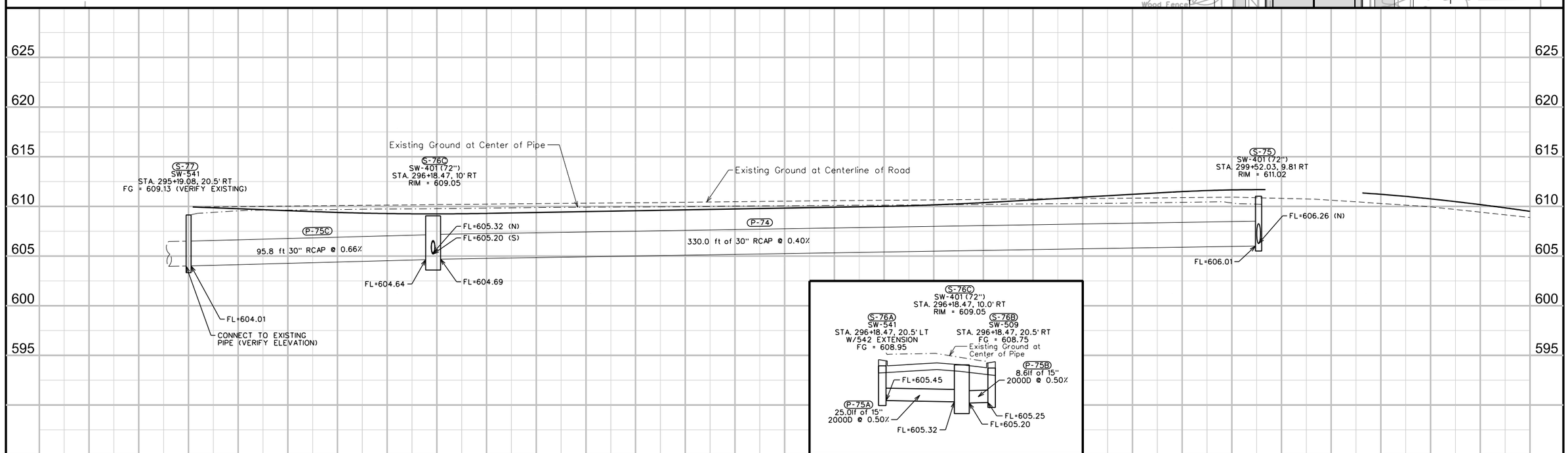

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	M.9

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398+00
399+00
400+00
401+00
402+00
403+00
404+00

18TH AVE. N

STA 398+68.07
BEGIN PCC
REMOVE AND REPLACE

PERSHING BOULEVARD

(44) Larry Qualls

Eagle Point Realty, LLC (43)

(45) Randy Aude

Gloria Ruan (46)

STA 403+82.82
END PCC PAVING

19TH AVENUE NORTH

EX. R/W

(S-87) (P-84) (S-86) (P-82) (S-84) (P-80) (S-80) (S-83) (S-85) (P-83)

REFER TO H SHEETS FOR RIGHT OF WAY INFORMATION

REFER TO L SHEETS FOR INTERSECTION DETAILS

REFER TO M SHEETS FOR STORM SEWER DETAILS

REFER TO R SHEETS FOR DEMOLITION INFORMATION

0 20
SCALE (FEET)

605
600
595
590
585
580
575

(S-87)
SW-541
STA. 398+65.41, 20.7' RT
FG = 592.71 (VERIFY EXISTING)

Existing Ground

Existing Ground at Center of Pipe

(S-86)
SW-401 (48")
STA. 402+60.02,
15.53' RT
Rim = 592.63

(S-84)
SW-401 (48")
STA. 402+92.35,
15.53' RT
Rim = 592.48

(P-84)
390.0 ft of 15" PVC @ 0.30%

(P-82)
28.3 ft of 15"
2000D @ 0.40%

FL=589.12 (N)
FL=588.92
FL=589.13
FL=589.02
FL=589.23 (N)
FL=587.75

CONNECT TO EXISTING
PIPE (VERIFY ELEVATION)

(S-86)
SW-401 (48")
STA. 402+60.02, 15.53' RT
Rim = 592.63

(S-85)
SW-507
STA. 402+60.02, 20.34' LT
FG = 592.42

(P-83)
34.0ft of 15"
2000D @ 0.50%

FL=589.02 (N)
FL=588.92 (S)
FL=589.12
FL=589.29

398+50 399+00 399+50 400+00 400+50 401+00 401+50 402+00 402+50 403+00 403+50

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	M.10

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ESTIMATE OF TRAFFIC SIGNAL QUANTITIES

ITEM	DESCRIPTION	UNITS	3RD ST	INTER-CONNECT	TOTAL
CONTROLLER AND CABINET	8-PHASE CONTROLLER, CABINET, 18" RISER, AND ACCESSORIES	EACH	1		1
	8-PHASE CONTROLLER	EACH		1	1
	GPS ANTENNA AND ACCESSORIES	EACH	1	1	2
DETECTOR UNITS	VIDEO DETECTION CAMERAS WITH PROCESSORS AND ACCESSORIES (4 CAMERAS)	EACH	1		1
	PEDESTRIAN PUSHBUTTON WITH SIGN	EACH	8		8
TRAFFIC SIGNAL HEADS	12" <R,<Y,<FY,<G (ALL LED) W/ BACKPLATE, MAST-ARM MOUNTED	EACH	2		2
	12" R,Y,G (ALL LED) W/ BACKPLATE, MAST-ARM MOUNTED	EACH	6		6
	12" R,Y,G, (ALL LED), SIDE-OF-POLE MOUNTED	EACH	4		4
	16" PEDESTRIAN HEAD, HAND/PERSON, COUNTDOWN, SIDE-OF-POLE MOUNTED	EACH	8		8
POWER SUPPLY	POWER SUPPLY	EACH	1		1
HANDHOLES	TYPE I- PRE-CAST CONCRETE HANDHOLES, 24" DIAMETER	EACH	3		3
	TYPE II- 24" x 36" PRE-CAST POLYMER-CONCRETE HANDHOLE	EACH	1		1
WIRE AND CABLE	SIGNAL CABLE - 5c #14 AWG	LIN FT	2390		2390
	SIGNAL CABLE - 2c #14 AWG	LIN FT	740		740
	VIDEO DETECTION CABLE	LIN FT	880		880
	LUMINAIRE CABLE - 1c #8 AWG	LIN FT	750		750
	LUMINAIRE CABLE - 1c #10 AWG	LIN FT	530		530
	GROUND WIRE - 1c #6 BARE	LIN FT	360		360
	TRACER WIRE - 1c #10	LIN FT	750		750
	PULL ROPE	LIN FT	750		750
DETECTOR SAWCUT	2" PVC, TRENCHED/BORED	LIN FT	30		30
	3" PVC, TRENCHED/BORED	LIN FT	320		320
CONCRETE FOOTINGS	CONTROLLER FOOTING	EACH	1		1
	POLE FOOTING TYPE A, 3' DIA x 11' DEPTH	EACH	4		4
TRAFFIC SIGNAL POLES	STEEL COMBINATION SIGNAL/LIGHTING - 31' MAST ARM	EACH	2		2
	STEEL COMBINATION SIGNAL/LIGHTING - 34' MAST ARM	EACH	2		2
LUMINAIRE	CONNECTOR - RM-40, Y-1, FUSED	EACH	4		4
	CONNECTOR - RM-40, L-1, FUSED	EACH	8		8
	LUMINAIRE, 250W HPS TYPE III	EACH	4		4
MISC.	TRAFFIC SIGN - R3-5L, 30" x 36", MAST-ARM MOUNTED	EACH	2		2
	STREETNAME SIGN - 66" x 18", MAST-ARM MOUNTED	EACH	2		2
	STREETNAME SIGN - 84" x 18", MAST-ARM MOUNTED	EACH	2		2

TRAFFIC SIGNAL LEGEND

EXISTING	PROPOSED	
		TRAFFIC SIGNAL
		TRAFFIC SIGNAL WITH BACKPLATE
		PEDESTRIAN SIGNAL
	(XX)	MAST ARM SUSPENDED TRAFFIC SIGNAL (XX = LENGTH OF MAST ARM)
		METAL TRAFFIC SIGNAL PEDESTAL
		TRAFFIC SIGNAL HEAD NUMBER
		POLE NUMBER
		STREET LIGHT ON SIGNAL POLE
		CONDUIT TRENCHED, PUSHED, JACKED, OR BORED
		HANDHOLE
		CONTROLLER CABINET WITH FOOTING
		SECONDARY SERVICE POINT
(XX)	(XX)	INDUCTIVE LOOP DETECTOR (XX = NUMBER DESIGNATION)
	XX	DETECTION ZONE (XX = NUMBER DESIGNATION)
		VIDEO DETECTION CAMERA
		EMERGENCY VEHICLE DETECTOR
		POLE MOUNTED SIGN

GENERAL NOTES:

1. ALL QUANTITIES SHOWN IN THE TRAFFIC SIGNAL PLANS ARE FOR INFORMATIONAL AND ESTIMATING PURPOSES ONLY. THE CONTRACTOR'S LUMP SUM BID SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIAL NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL TRAFFIC SIGNAL INSTALLATION IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
2. PROVIDE TRAFFIC CONTROL DEVICES AS REQUIRED TO FACILITATE CONSTRUCTION OF TRAFFIC SIGNALS IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR THE STREETS AND HIGHWAYS, AS ADOPTED BY THE IOWA DEPARTMENT OF TRANSPORTATION PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
3. TRAFFIC SIGNALS SHALL BE CONSTRUCTED IN ACCORDANCE WITH IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 2015, EXCEPT AS MODIFIED BY THE PLANS.
4. THE CONTRACTOR SHALL HAVE AN EMPLOYEE ON THE PROJECT WITH A LEVEL II INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) TRAFFIC SIGNAL TECHNICIAN CERTIFICATION.
5. THE CONTRACTOR SHALL FURNISH A SCHEDULE OF UNIT PRICES FOR ESTIMATED TRAFFIC SIGNAL QUANTITIES. PAYMENT WILL BE BASED ON PLAN QUANTITIES. QUANTITIES WILL NOT BE FIELD MEASURED.
6. ROADWAY GEOMETRICS REPRESENT PROPOSED FEATURES.
7. THE PLAN LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION ON THE PROJECT TO ESTABLISH LOCATIONS.
8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING POWER SERVICE LOCATION WITH ALLIANT ENERGY COMPANY PRIOR TO CONDUIT/CIRCUIT INSTALLATION CALL 1-800-ALLIANT. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE.
9. ELECTRICAL SERVICE SHALL BE 2-WIRE 120/240 VOLT SINGLE PHASE. SIGNALS AND LIGHTING SHALL BE ON SEPARATE 120 VOLT CIRCUITS.
10. THE PLAN LOCATIONS OF ALL HANDHOLES ARE APPROXIMATE ONLY AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD BY THE ENGINEER. OBTAIN ENGINEER'S APPROVAL PRIOR TO PLACING HANDHOLES AND CONSTRUCTING FOOTINGS.
11. PROVIDE STRUCTURAL CONCRETE TESTING (2 CYLINDERS, 7-DAY AND 28-DAY, FOR EACH BATCH) IN ACCORDANCE WITH ASTM C39 AS POURED FOR POLE FOOTINGS.
12. INSTALL ONE SIGNAL CABLE FROM EACH SIGNAL HEAD TO THE BASE OF THE POLE. INSTALL A 5-CONDUCTOR CABLE TO EACH 4-SECTION VEHICLE HEAD, EACH 3-SECTION VEHICLE SIGNAL HEAD, AND EACH PEDESTRIAN SIGNAL HEAD. ALL SIGNAL CABLE SHALL BE #14 AWG UNLESS OTHERWISE NOTED ON THE PLANS.
13. INSTALL TWO (2) 1-CONDUCTOR #10 CABLES FROM THE LUMINAIRE HEAD TO THE BASE OF THE POLE. FURNISH AND INSTALL 250W HPS FULL CUT OFF TYPE III LUMINAIRE WITH PHOTOCELL CONTROL ON EACH COMBINATION POLE. INSTALL FUSED CONNECTORS IN EACH POLE BASE.
14. INSTALL A #6 AWG BARE COPPER GROUND WIRE BETWEEN THE GROUND RODS IN THE SIGNAL FOOTINGS TO FORM A CONTINUOUSLY GROUNDED SYSTEM.
15. VIDEO CABLES SHALL PER VIDEO SUPPLIER SPECIFICATIONS. NO SPLICES ALLOWED IN VIDEO CABLE.
16. CONDUIT SHALL BE RIGID PVC OR DIRECTIONAL BORED HDPE CONDUIT.
17. TRAFFIC SIGNAL MOUNTING BRACKETS SHALL UTILIZE STAINLESS STEEL BANDING FOR SIDE OF POLE MOUNTING AND GALVANIZED STEEL CABLE FOR MAST ARM MOUNTING.
18. MAST ARMS AND POLES SHALL BE DESIGNED TO SUPPORT TRAFFIC SIGNALS, SIGNS, LUMINAIRES AND EQUIPMENT SHOWN IN THE PLANS. POLES SHALL BE TRANSFORMER BASE STYLE UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER.
19. TRAFFIC SIGNAL HEADS SHALL HAVE YELLOW BODIES AND BLACK FACES, VISORS, AND BACKPLATES.
20. PROVIDE 48 HOURS OF NOTICE TO THE CITY OF CLINTON BEFORE PLACING THE PERMANENT TRAFFIC SIGNALS INTO OPERATION.
21. TRAFFIC SIGNAL CONTROLLER SHALL BE NAZTEC CONFIGURED FOR SHELF MOUNTING AND SATISFYING NEMA TS2 TYPE 2 REQUIREMENTS.
22. FURNISH AND INSTALL GPS ANTENNA AND ALL NECESSARY APPURTENANCES ON SIGNAL CONTROLLER CABINET AT INTERSECTIONS OF 19TH AVE NORTH WITH NORTH 3RD ST AND NORTH 2ND ST TO PROVIDE SIGNAL CONTROLLER TIME BASED COORDINATION.
23. INSTALL PEDESTRIAN PUSHBUTTON SIGN (R10-3E) ABOVE EACH PEDESTRIAN PUSHBUTTON.
24. STREETNAME SIGNS SHALL HAVE WHITE LETTERS ON GREEN BACKGROUND. LETTER FONT SHALL BE FHWA SERIES D SIZE 12 INCHES.

LICENSED PROFESSIONAL ENGINEER
JUSTIN C. JACKSON
20538
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.

7/31/15
Justin C. Jackson, P.E. Date

License Number 20538

My License Renewal Date is December 31, 2012

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

SIGNAL GENERAL NOTES AND QUANTITIES

TRAFFIC SIGNS

R3-5L
30" X 36"
(A)
(2 EACH)

PEDESTRIAN SIGNS

R10-3EL
9" X 15"
(4 EACH)

R10-3ER
9" X 15"
(4 EACH)

STREET NAME SIGNS

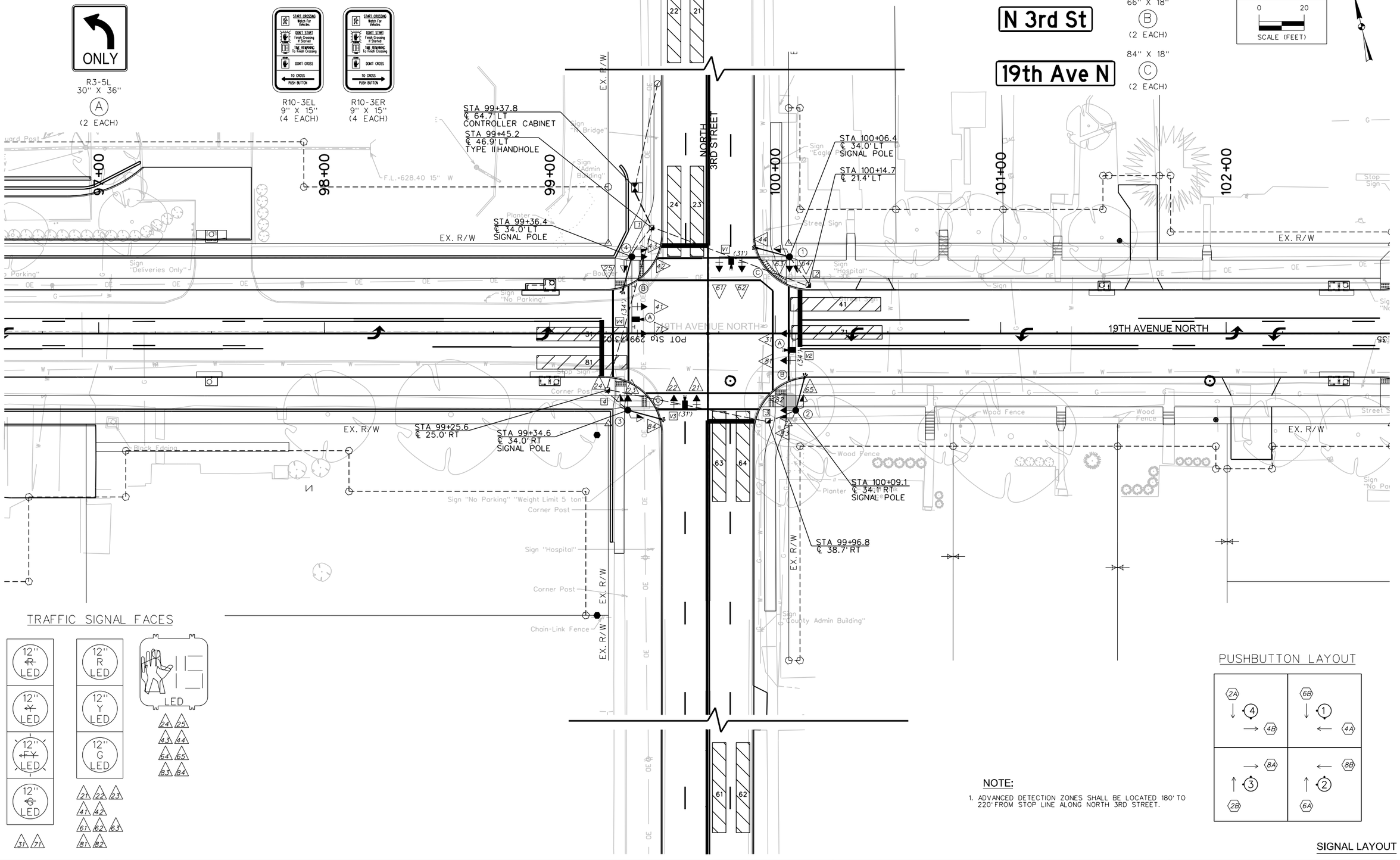
N 3rd St

66" X 18"
(B)
(2 EACH)

19th Ave N

84" X 18"
(C)
(2 EACH)

0 20
SCALE (FEET)



TRAFFIC SIGNAL FACES

PUSHBUTTON LAYOUT

NOTE:

1. ADVANCED DETECTION ZONES SHALL BE LOCATED 180' TO 220' FROM STOP LINE ALONG NORTH 3RD STREET.

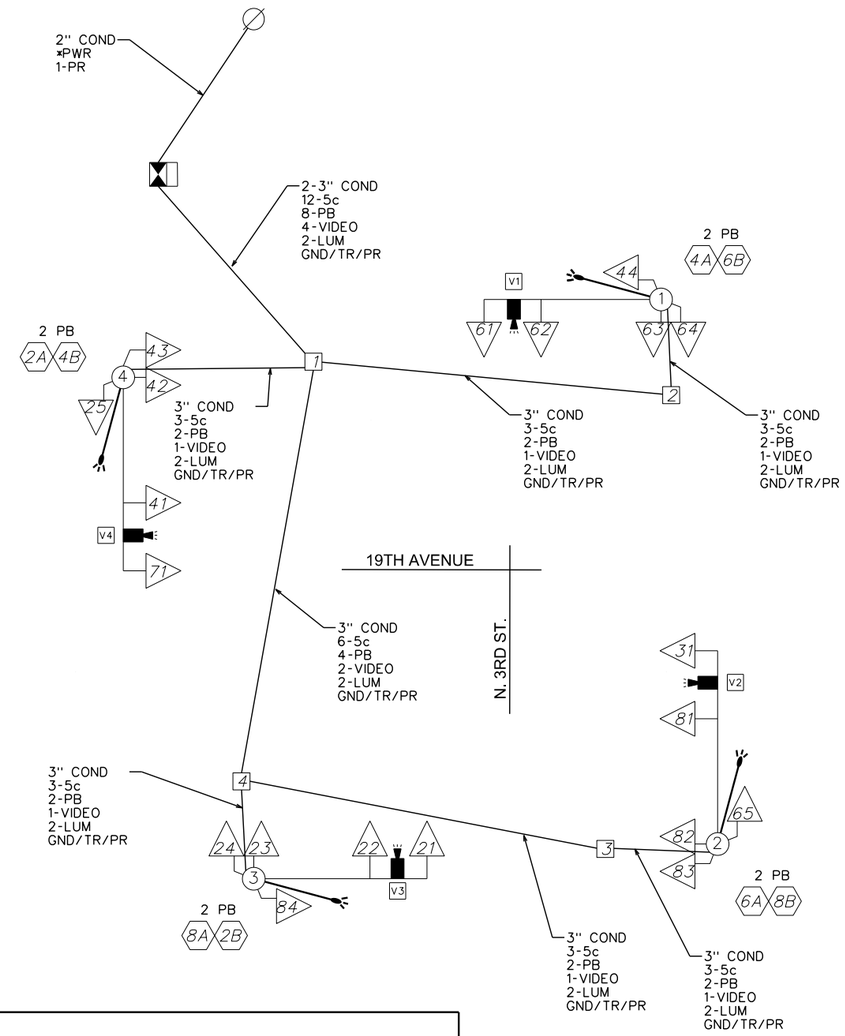
SIGNAL LAYOUT

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER N.2

VIDEO DETECTOR SUMMARY

CAMERA NUMBER	DETECTION ZONE	ZONE LIMITS (DISTANCE FROM STOP LINE)	PHASE CALLED	PHASE EXTENDED	COMMENTS
V1	61	180'-220'	6	6	
	62	180'-220'	6	6	
	63	0'-40'	6	6	
	64	0'-40'	6	6	
V2	31	0'-40'	3	3/8	
	81	0'-40'	8	8	
V3	21	180'-220'	2	2	
	22	180'-220'	2	2	
	23	0'-40'	2	2	
	24	0'-40'	2	2	
V4	41	0'-40'	4	4	
	71	0'-40'	7	7/4	
	2A, 2B		2		PED PUSH BUTTON
	4A,4B		4		PED PUSH BUTTON
	6A,6B		6		PED PUSH BUTTON
	8A,8B		8		PED PUSH BUTTON

NOTE: ZONE LIMITS ARE FOR DETECTION LIMITS ONLY. ACTUAL DETECTION AREAS FOR EACH ZONE WILL BE DETERMINED IN THE FIELD.



NOT TO SCALE

CARD RACK DETAIL

POWER SUPPLY	VIDEO CARD N&S STOP BAR	VIDEO CARD E&W STOP BAR	VIDEO CARD N&S ADVANCE		VIEWCOM

TRAFFIC SIGNAL POLE DATA

POLE NO.	POLE TYPE	MAST ARM LENGTH/ PEDESTAL HEIGHT (ft.)	TRAFFIC SIGNAL ① HEADS		①TRAFFIC SIGNS		②LUMINAIRE ARM			FOOTING DIMENSIONS			MISCELLANEOUS	TOTAL QUANTITY
			QTY.	LOCATION ON ARM (ft.)	QTY.	LOCATION ON ARM (ft.)	SPREAD (ft.)	MOUNTING HEIGHT (ft.)	ORIENTATION (degrees)	TYPE	DIA. (ft.)	DEPTH (ft.)		
1	COMBINATION SIGNAL/LIGHTING	31	2	31,21	1	13	15	35	0	A	3	11		1
2	COMBINATION SIGNAL/LIGHTING	34	2	34,22	2	31,13	15	35	0	A	3	11		1
3	COMBINATION SIGNAL/LIGHTING	31	2	31,21	1	13	15	35	0	A	3	11		1
4	COMBINATION SIGNAL/LIGHTING	34	2	34,22	2	31,13	15	35	0	A	3	11		1

NOTES:

① LOCATION REPRESENTS APPROXIMATE LINEAR DISTANCE FROM POLE MEASURED OUTWARD TO END OF ARM.

② ORIENTATION OF LUMINAIRE ARM REPRESENTS A CLOCKWISE ANGLE MEASURED FROM THE CENTERLINE OF THE MAST ARM.

③ UNLESS OTHERWISE DIRECTED, TRAFFIC SIGNAL HEADS ON MAST ARMS ARE TO BE ALIGNED OVER THE CENTER OF INTERSECTION APPROACH LANES. APPROXIMATE LOCATIONS ARE AS SHOWN IN THE TRAFFIC SIGNAL POLE DATA TABLE. CONTRACTOR SHALL FIELD VERIFY SIGNAL HEAD LOCATIONS.

④ TOP OF FOOTING TO BE FORMED SQUARE AND FLUSH WITH PROPOSED SIDEWALK.

NOTE:

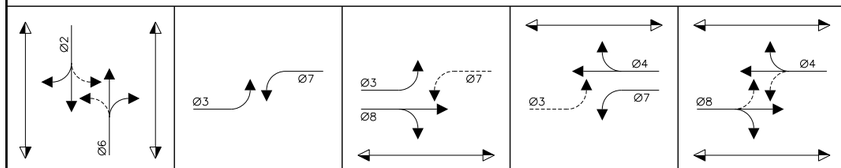
*ALLINAT ENERGY TO INSTALL CABLE FROM METER TO POWER SOURCE

WIRING LEGEND

▷	SIGNAL NUMBER
②	POLE NUMBER
2	HANDHOLE NUMBER
22	EXISTING DETECTOR NUMBER
22	PROPOSED DETECTOR NUMBER
	PTV CCTV
V2	VIDEO CAMERA NUMBER
—X	EMERGENCY VEHICLE DETECTOR
COND	CONDUIT
PWR	POWER CABLE
LUM	LUMINAIRE (1c #8)
PB	PEDESTRIAN PUSHBUTTON (2c)
EVP	EMERGENCY VEHICLE PREEMPTION
VID	VIDEO CABLE(S)
DET	DETECTOR LEAD-IN CABLE (2c)
LOOP	LOOP WIRE
GND	GROUND WIRE (1c #6)
TR	TRACER WIRE (1c #10)
PR	PULL ROPE
FO	FIBER OPTIC CABLE

SIGNAL WIRING DIAGRAM

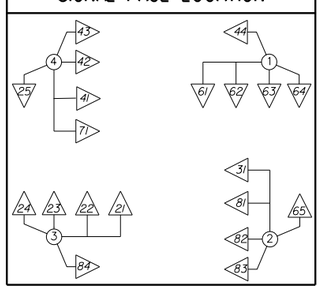
TRAFFIC PHASING AND COLOR SEQUENCE



APPROACH	FACE NO.	Ø2+6 R/W	Ø2+6 CLEAR TO Ø AO	Ø3+7 R/W	Ø3+7 CLEAR TO Ø 3+8	Ø3+7 4+7	Ø3+7 AO	Ø3+8 R/W	Ø3+8 CLEAR TO Ø 3+7	Ø3+8 4+7	Ø3+8 4+8	Ø3+8 AO	Ø4+7 R/W	Ø4+7 CLEAR TO Ø 3+7	Ø4+7 3+8	Ø4+7 4+8	Ø4+7 AO	Ø4+8 R/W	Ø4+8 CLEAR TO Ø AO
N. 3rd St. Northbound	61,62, 63	G	G/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	64,65	W	FDW/DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
N. 3rd St. Southbound	21,22 23	G	G/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	24,25	W	FDW/DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
19th Ave N. Eastbound	31	~~R~~	~~R~~	~~G~~	~~G~~	~~Y~~	~~Y~~	~~G~~	~~G~~	~~G~~/~~Y~~	~~Y~~	~~G~~/~~Y~~	~~FY~~	~~FY~~	~~FY~~	~~FY~~	~~FY~~/~~Y~~	~~FY~~	~~FY~~/~~Y~~
	81,82	R	R	R	R	R	R	G	G/Y	G/Y	G	G/Y	R	R	R	R	R	G	G/Y
	83,84	DW	DW	DW	DW	DW	DW	W	FDW/DW	FDW/DW	W	FDW/DW	DW	DW	DW	DW	DW	W	FDW/DW
19th Ave N. Westbound	71	~~R~~	~~R~~	~~G~~	~~Y~~	~~G~~	~~Y~~	~~FY~~	~~FY~~	~~FY~~	~~FY~~	~~FY~~/~~Y~~	~~G~~	~~G~~	~~G~~/~~Y~~	~~Y~~	~~G~~/~~Y~~	~~FY~~	~~FY~~/~~Y~~
	41,42	R	R	R	R	R	R	R	R	R	R	R	G	G/Y	G/Y	G	G/Y	G	G/Y
	43,44	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW/DW	FDW/DW	W	FDW/DW	W	FDW/DW

APPROACH	FACE NO.	Ø CLEAR TO Ø R/W	Ø CLEAR TO Ø	Ø CLEAR TO Ø R/W	Ø CLEAR TO Ø	Ø CLEAR TO Ø R/W	Ø CLEAR TO Ø	Ø CLEAR TO Ø R/W	Ø CLEAR TO Ø	Ø CLEAR TO Ø R/W	Ø CLEAR TO Ø	Ø CLEAR TO Ø R/W	Ø CLEAR TO Ø	Ø CLEAR TO Ø R/W	Ø CLEAR TO Ø
N. 3rd St. Northbound	61,62, 63														
	64,65														
N. 3rd St. Southbound	21,22 23														
	24,25														
19th Ave N. Eastbound	31														
	81,82														
	83,84														
19th Ave N. Westbound	71														
	41,42														
	43,44														

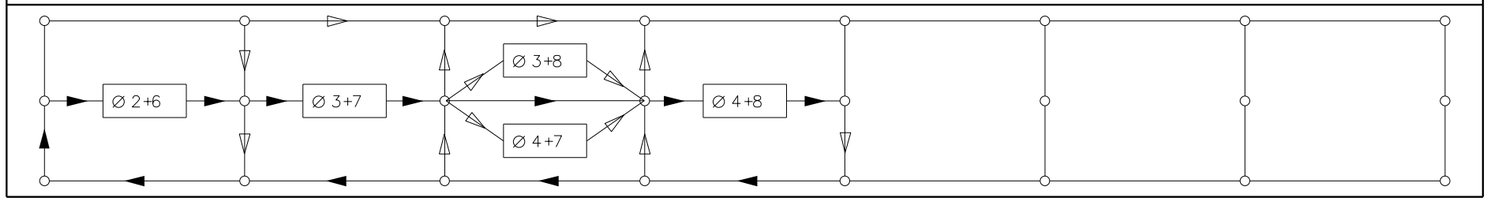
SIGNAL FACE LOCATION



TRAFFIC PHASING LEGEND

→	VEHICULAR MOVEMENT
- - →	PARTIALLY RESTRICTED VEHICULAR MOVEMENT
→	PEDESTRIAN MOVEMENT
R/W	RIGHT OF WAY INTERVAL
Ø	TRAFFIC PHASE
R	CIRCULAR RED
Y	CIRCULAR YELLOW
G	CIRCULAR GREEN
~~R~~	RED LEFT ARROW
~~Y~~	YELLOW LEFT ARROW
~~FY~~	FLASHING YELLOW LEFT ARROW
~~G~~	GREEN LEFT ARROW
W	WALK
DW	DON'T WALK
FDW	FLASHING DON'T WALK
AO	ALL OTHER PHASES
PR1	PREEMPT #1
PR2	PREEMPT #2
PR3	PREEMPT #3
PR4	PREEMPT #4

PHASE FLOW DIAGRAM



NOTE:
→ FLOW PATH IF ALL PHASES ARE REQUESTED
⇢ FLOW PATH WHEN PHASE IS NOT REQUESTED BEFORE RIGHT-OF-WAY TRANSFER
THE RED CLEARANCE INTERVAL SHALL BE INCLUDED IN THE COLOR SEQUENCE WHEN CALLED FOR BY CONTROLLER TIMING.

INITIAL RECOMMENDED TIMING (SECONDS)

PHASE	1	2	3	4	5	6	7	8
MINIMUM GREEN		20	7	10		20	7	10
PASSAGE		2.5	2	2		2.5	2	2
MAXIMUM I		40	15	25		40	15	25
MAXIMUM II								
YELLOW CHANGE		3.2	3.0	3.2		3.2	3.0	3.2
RED CLEARANCE		1.8	1.0	1.8		1.8	1.0	1.8
WALK		7		7		7		7
PEDESTRIAN CLEARANCE		14		14		14		14
ADDED INITIAL								
TIME TO REDUCE								
TIME BEFORE REDUCTION								
MINIMUM GAP								

Ø 2+6 MIN RECALL

CONTROLLER DATA

PHASES USED:	6
EXPANSIBLE TO:	8
MINIMUM QTY. OF BACKPANEL POSITIONS	12

FLASHING OPERATION

NORTH 3RD STREET	RED
19TH AVENUE NORTH	RED
PEDESTRIAN	DARK

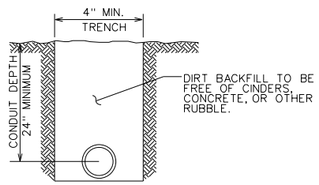
PHASE SEQUENCE NOT ALLOWED

FROM	→	TO
4+8	→	3+8 OR 4+7
	→	
	→	

DUAL ENTRY PHASES

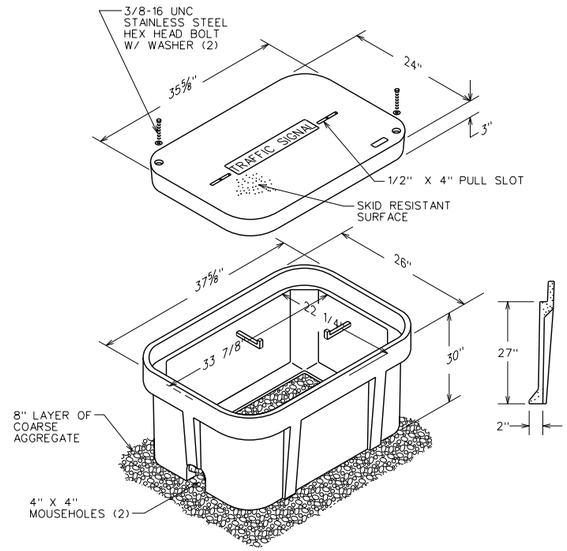
2+6 4+8

SIGNAL PHASING DIAGRAM



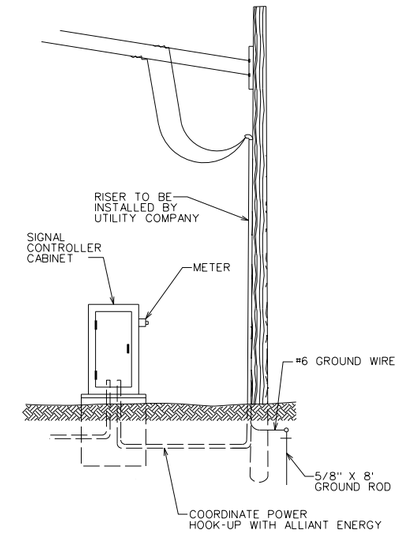
1 N.05 CONDUIT IN TRENCH

NOT TO SCALE



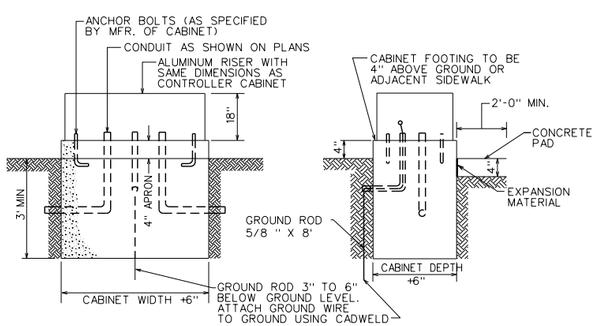
3 N.05 TYPE II - PRECAST POLYMER-CONCRETE HANDHOLE

NOT TO SCALE



5 N.05 SECONDARY SERVICE

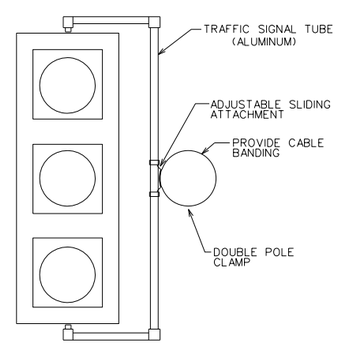
NOT TO SCALE



2 N.05 CONTROLLER CABINET FOOTING

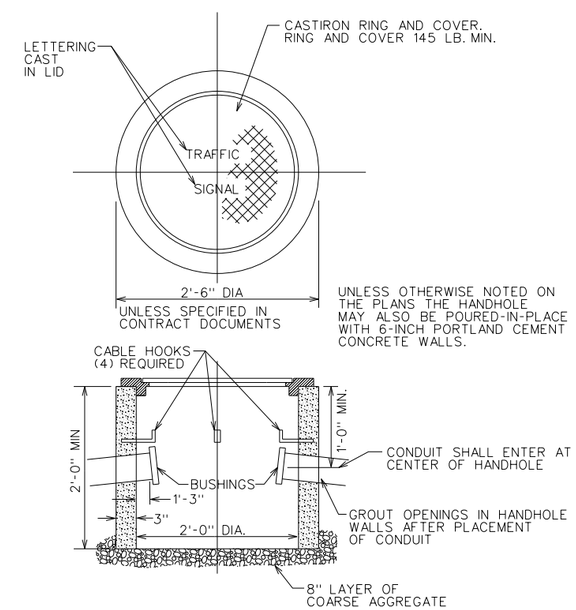
NOT TO SCALE

NOTE: BRACKET SHALL PROVIDE FOR COMPLETELY CONCEALED WIRING OF SIGNAL HEADS.



4 N.05 MAST ARM SIGNAL BRACKET

NOT TO SCALE

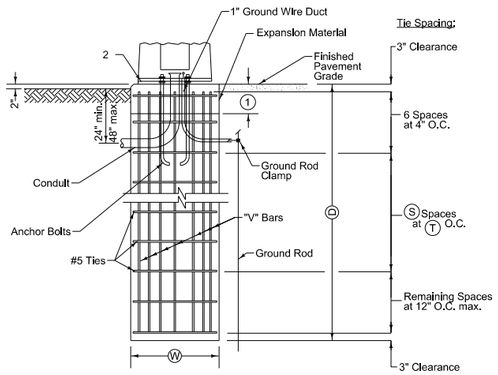


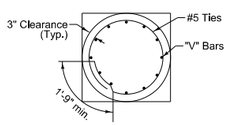
6 N.05 PRE-CAST CONCRETE HANDHOLE (24")

NO SCALE

SIGNAL DETAILS

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	N.5



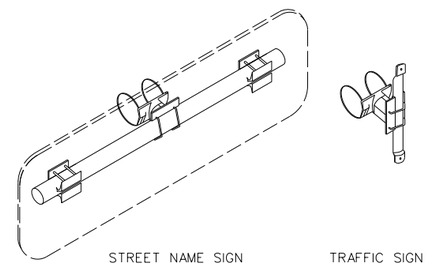


FOOTING DIMENSIONS TABLE						
TYPE	D	W	"V" Bars Count	"V" Bars Size	S	T
A	11'-0"	3'-0"	12	8	8	12"
B	13'-0"	3'-0"	12	8	10	12"
C	15'-0"	3'-0"	12	8	10	12"
D	16'-0"	3'-0"	12	8	10	8"
E	15'-0"	3'-6"	12	10	10	8"
F	16'-0"	3'-6"	12	10	10	8"

Provide footing type as specified in the contract documents.

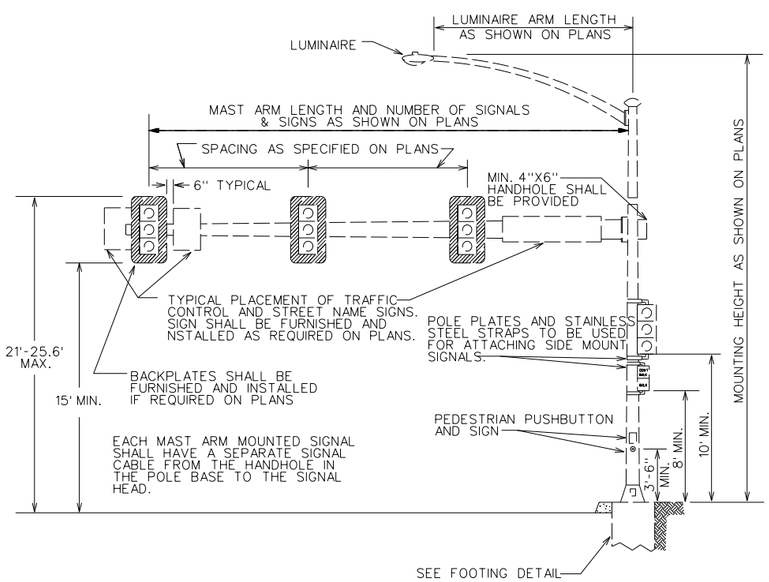
1 / N.06 MAST ARM POLE FOOTING

NO SCALE



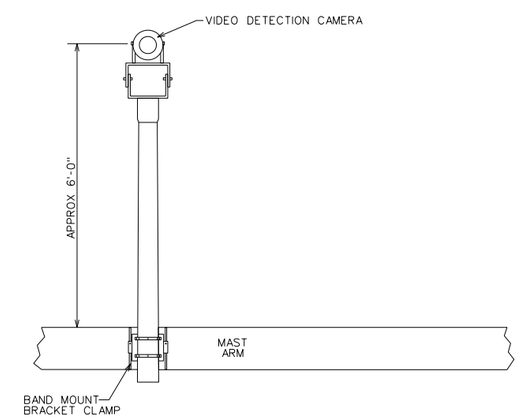
2 / N.06 MAST ARM SIGN BRACKET

NO SCALE



3 / N.06 STEEL MAST ARM POLE

NO SCALE



4 / N.06 VEHICLE DETECTION CAMERA

NO SCALE

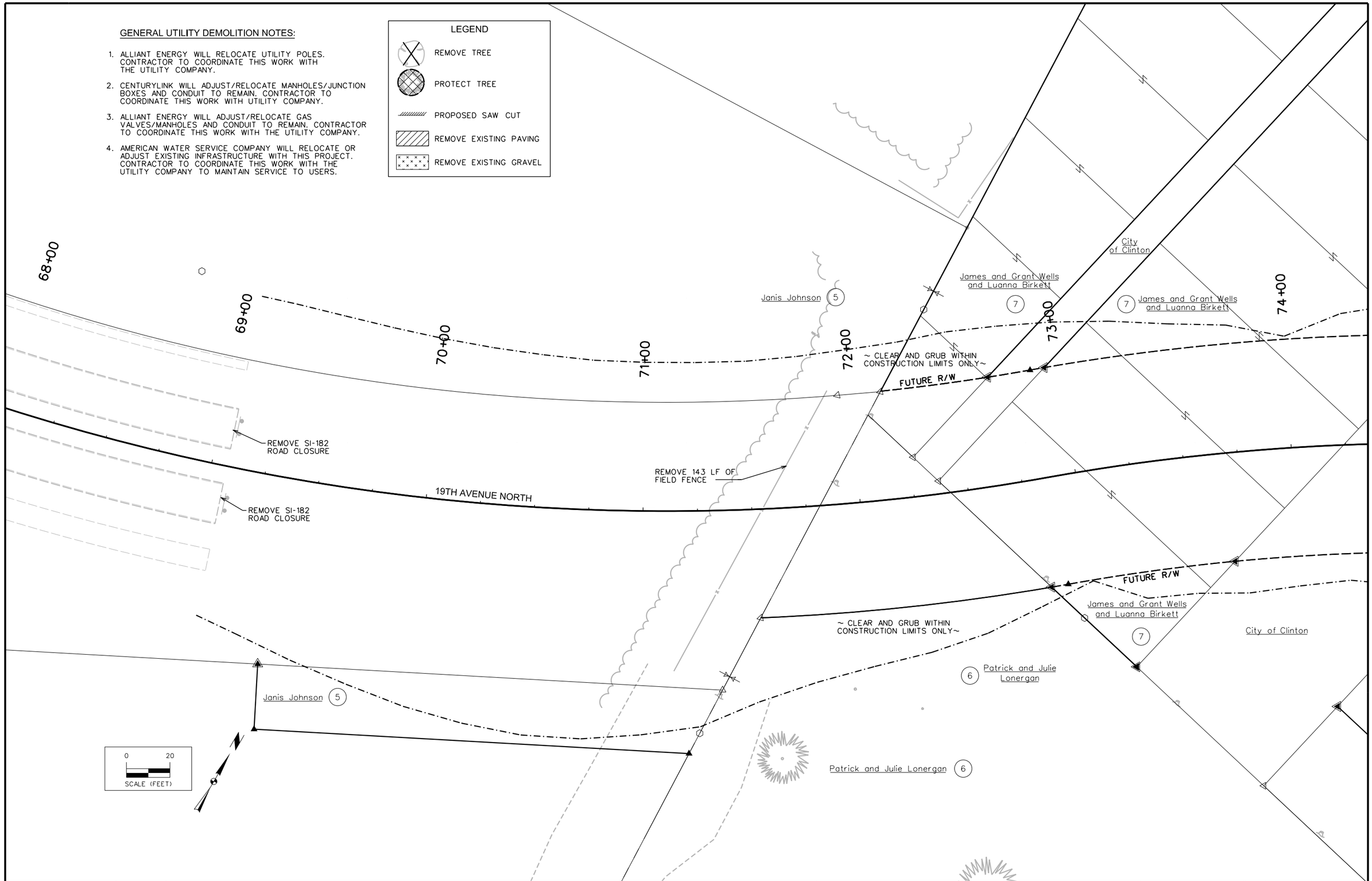
SIGNAL DETAILS

GENERAL UTILITY DEMOLITION NOTES:

1. ALLIANT ENERGY WILL RELOCATE UTILITY POLES. CONTRACTOR TO COORDINATE THIS WORK WITH THE UTILITY COMPANY.
2. CENTURYLINK WILL ADJUST/RELOCATE MANHOLES/JUNCTION BOXES AND CONDUIT TO REMAIN. CONTRACTOR TO COORDINATE THIS WORK WITH UTILITY COMPANY.
3. ALLIANT ENERGY WILL ADJUST/RELOCATE GAS VALVES/MANHOLES AND CONDUIT TO REMAIN. CONTRACTOR TO COORDINATE THIS WORK WITH THE UTILITY COMPANY.
4. AMERICAN WATER SERVICE COMPANY WILL RELOCATE OR ADJUST EXISTING INFRASTRUCTURE WITH THIS PROJECT. CONTRACTOR TO COORDINATE THIS WORK WITH THE UTILITY COMPANY TO MAINTAIN SERVICE TO USERS.

LEGEND

- REMOVE TREE
- PROTECT TREE
- PROPOSED SAW CUT
- REMOVE EXISTING PAVING
- REMOVE EXISTING GRAVEL



ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON COUNTY	PROJECT NUMBER STP-U-1415(625)--70-23	SHEET NUMBER R.1

James and Grant Wells and Luanna Birkett (7)

City of Clinton

CONSTRUCTION LIMITS (TYP.)

75+00

74+00

76+00

James and Grant Wells and Luanna Birkett (8)

77+00

~ CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS ONLY~

FUTURE R/W

James and Grant Wells and Luanna Birkett (11)

78+00

City of Clinton

James and Grant Wells and Luanna Birkett (12)

RANDAL COURT

79+00

19TH AVENUE NORTH

FUTURE R/W

FUTURE R/W

~ CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS ONLY~

Jay Rice (10)

City of Clinton

City of Clinton

Gary and Marilyn Barnes (9)

James and Grant Wells and Luanna Birkett (8)

Wayne Lind & Laurence W. Lind Jr & Vincent Attaway

CITY OF CLINTON

James and Grant Wells and Luanna Birkett (13)

LEGEND

- REMOVE TREE
- PROTECT TREE
- PROPOSED SAW CUT
- REMOVE EXISTING PAVING
- REMOVE EXISTING GRAVEL

GENERAL UTILITY DEMOLITION NOTES:

1. ALLIANT ENERGY WILL RELOCATE UTILITY POLES. CONTRACTOR TO COORDINATE THIS WORK WITH THE UTILITY COMPANY.
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0 20
SCALE (FEET)

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	R.2

GENERAL UTILITY DEMOLITION NOTES:

1. ALLIANT ENERGY WILL RELOCATE UTILITY POLES. CONTRACTOR TO COORDINATE THIS WORK WITH THE UTILITY COMPANY.
2. CENTURYLINK WILL ADJUST/RELOCATE MANHOLES/JUNCTION BOXES AND CONDUIT TO REMAIN. CONTRACTOR TO COORDINATE THIS WORK WITH UTILITY COMPANY.
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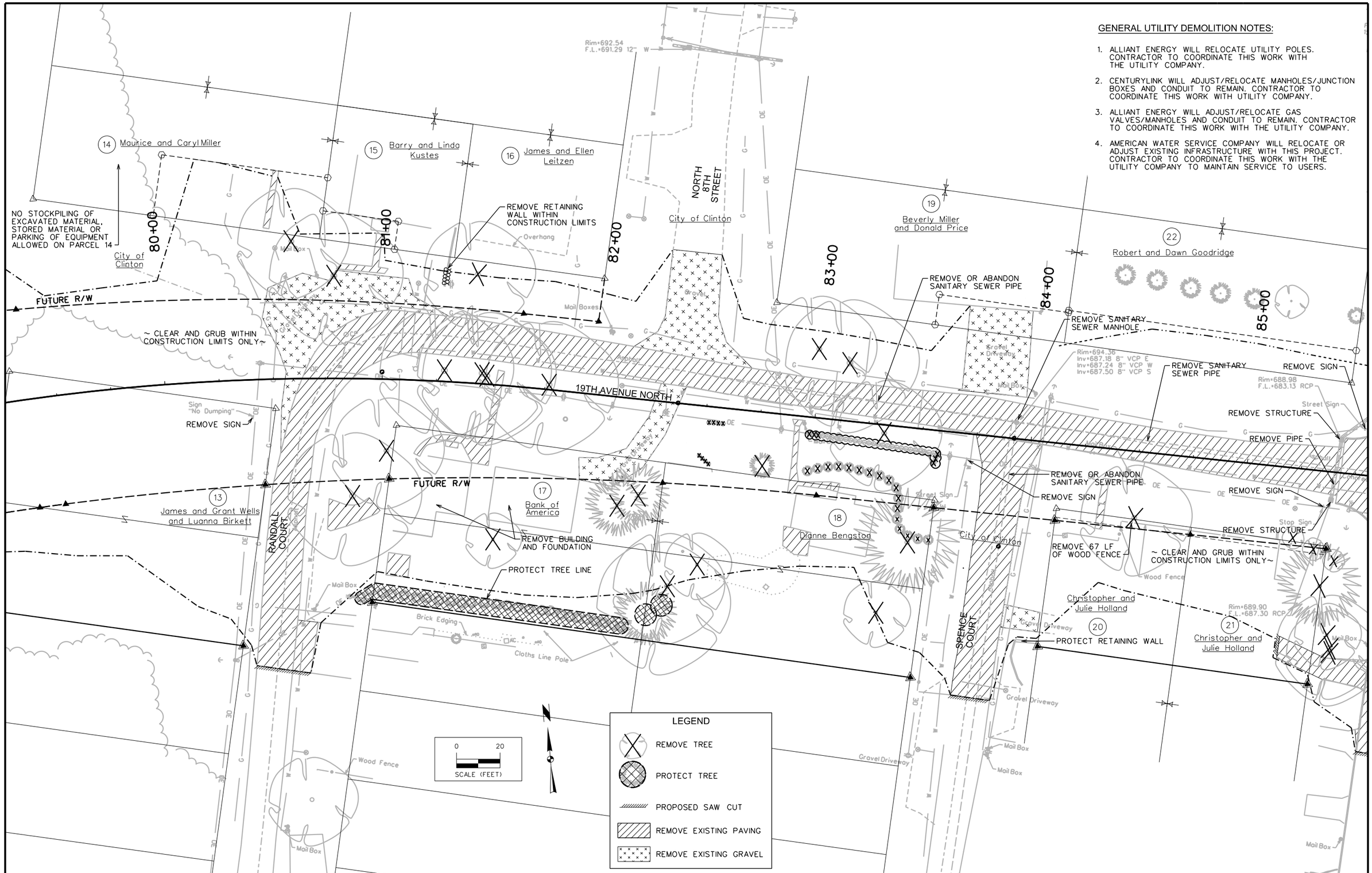
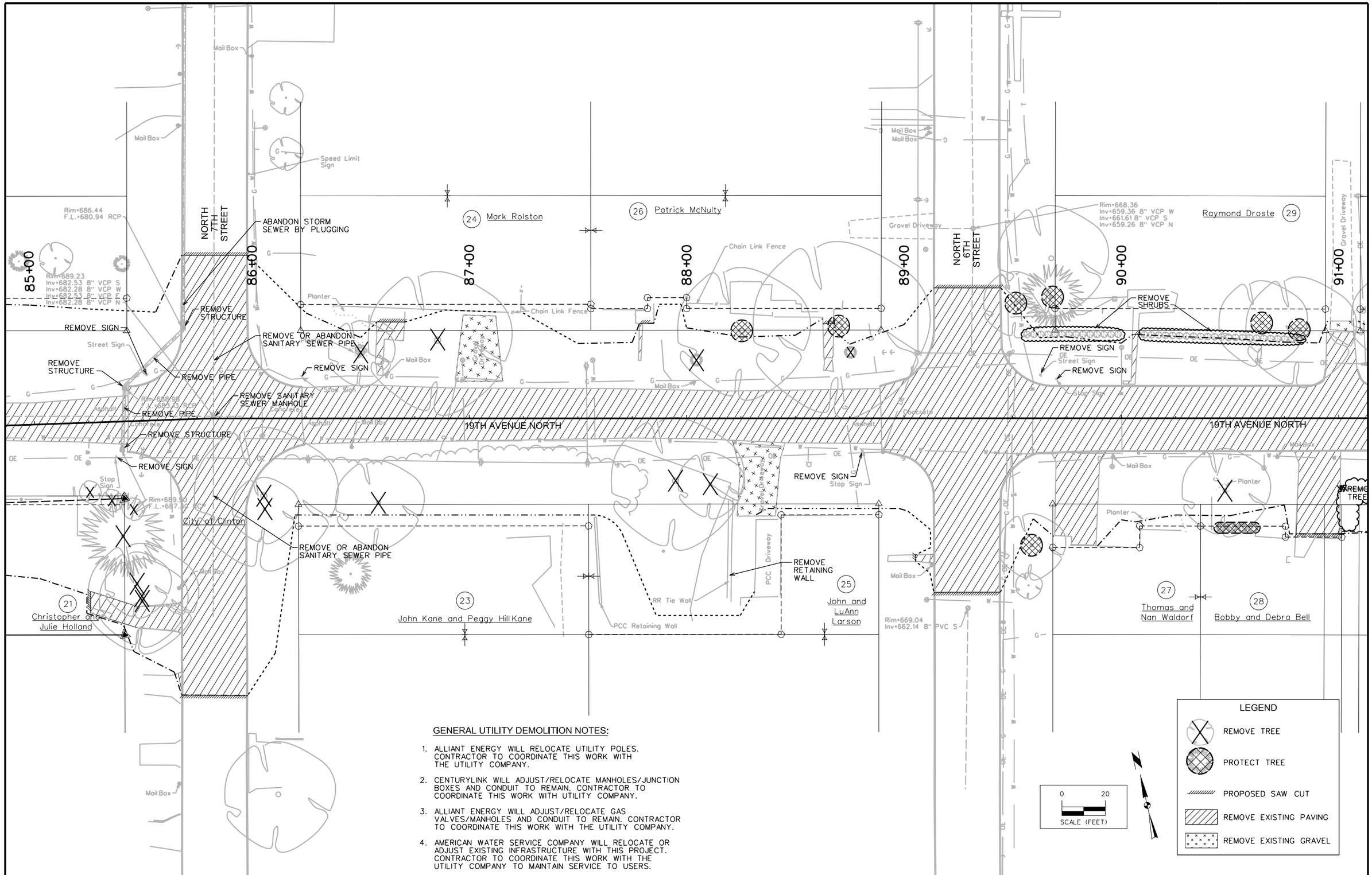


ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	R.3



GENERAL UTILITY DEMOLITION NOTES:

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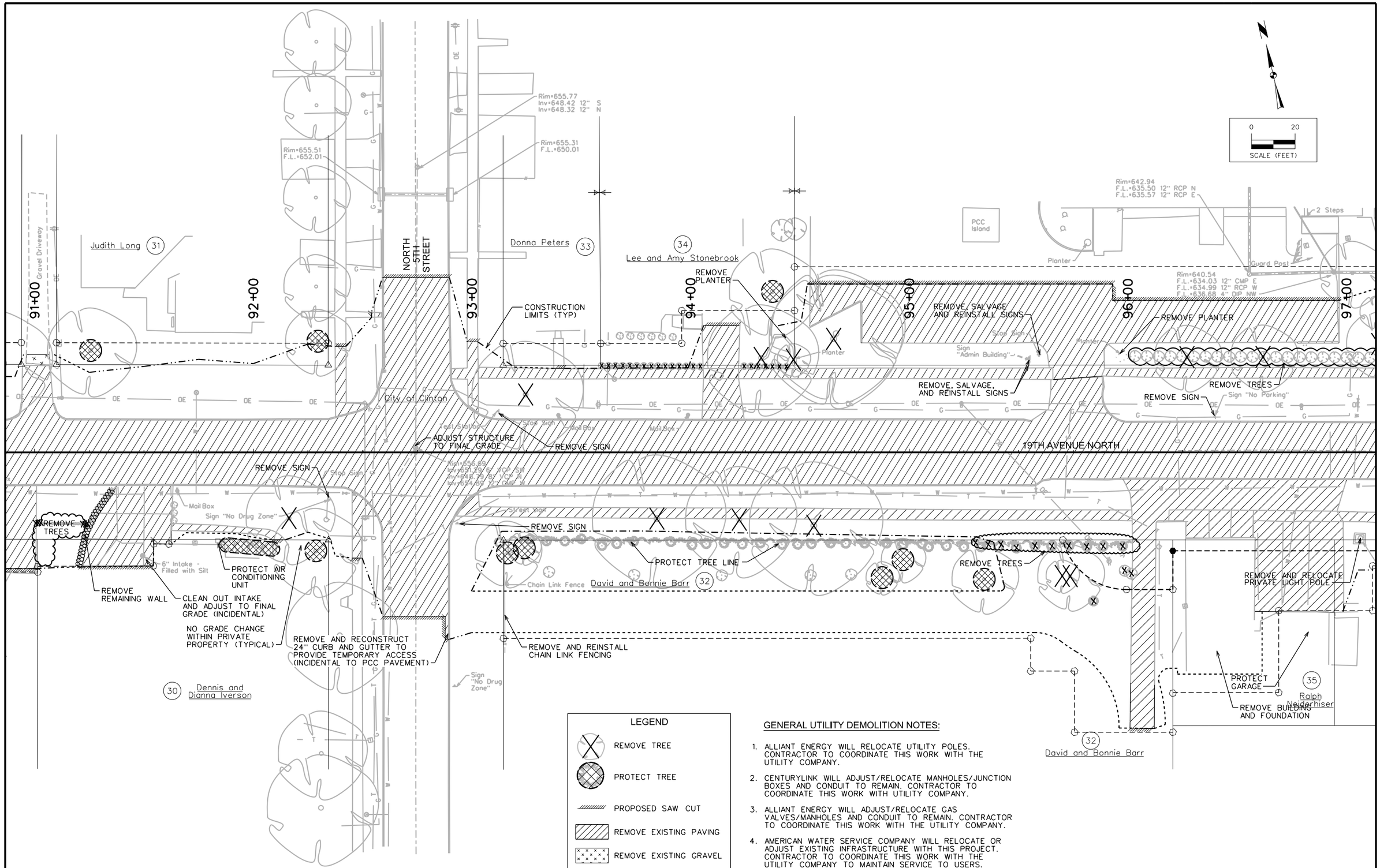
ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	R.4



LEGEND

- REMOVE TREE
- PROTECT TREE
- PROPOSED SAW CUT
- REMOVE EXISTING PAVING
- REMOVE EXISTING GRAVEL

GENERAL UTILITY DEMOLITION NOTES:

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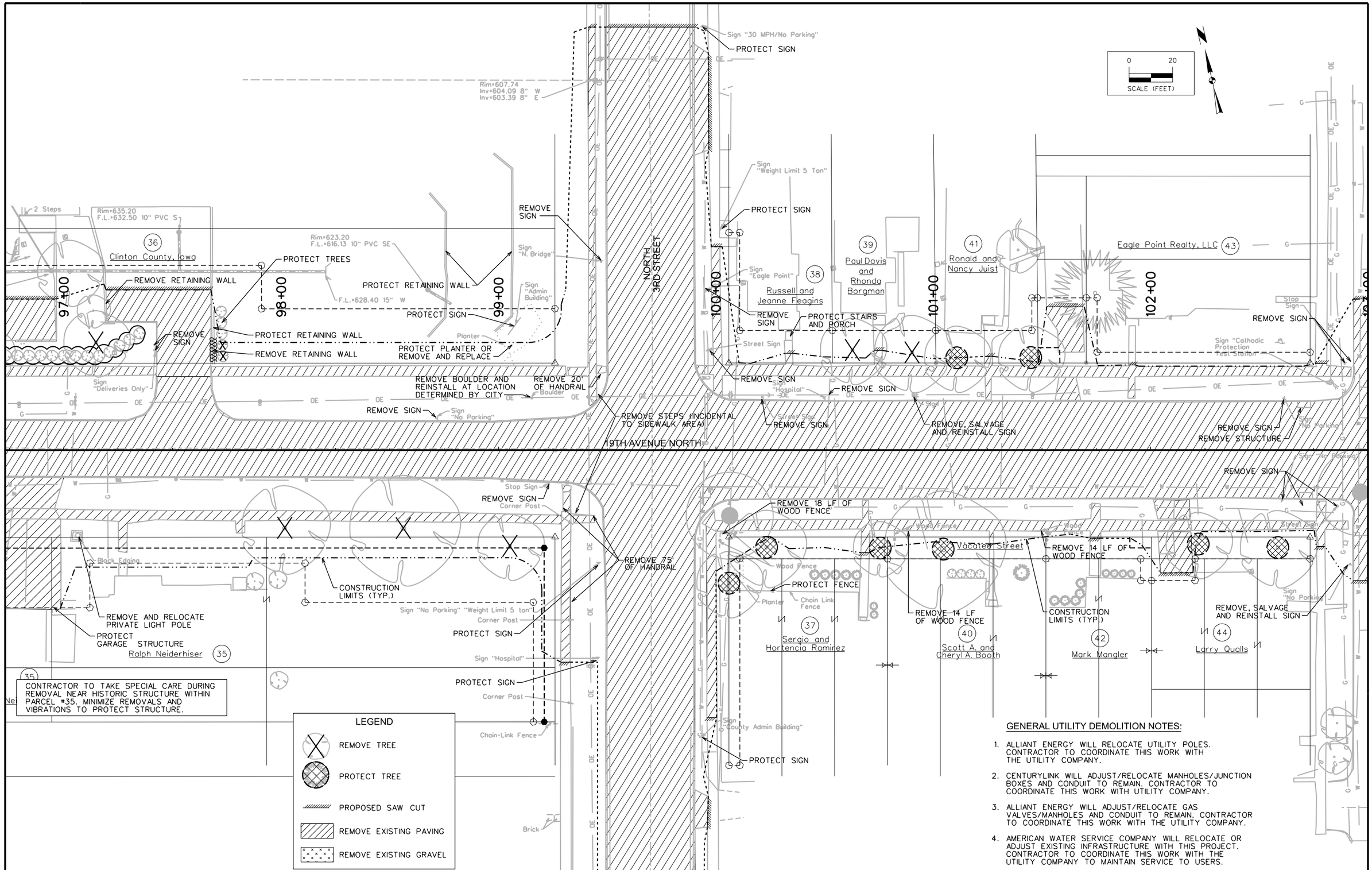

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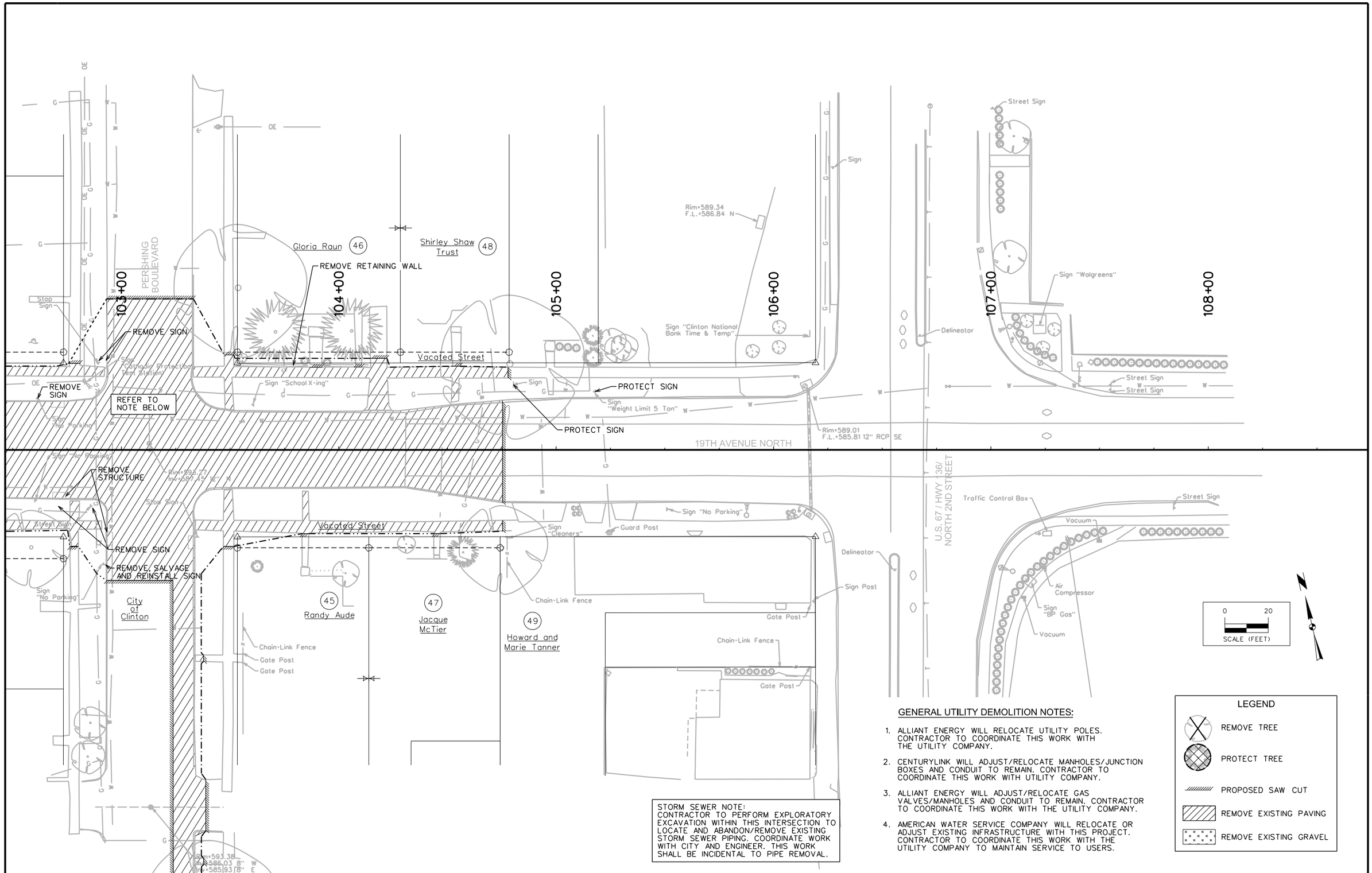

STORM SEWER NOTE:
CONTRACTOR TO PERFORM EXPLORATORY EXCAVATION WITHIN THIS INTERSECTION TO LOCATE AND ABANDON/REMOVE EXISTING STORM SEWER PIPING. COORDINATE WORK WITH CITY AND ENGINEER. THIS WORK SHALL BE INCIDENTAL TO PIPE REMOVAL.

GENERAL UTILITY DEMOLITION NOTES:

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LEGEND

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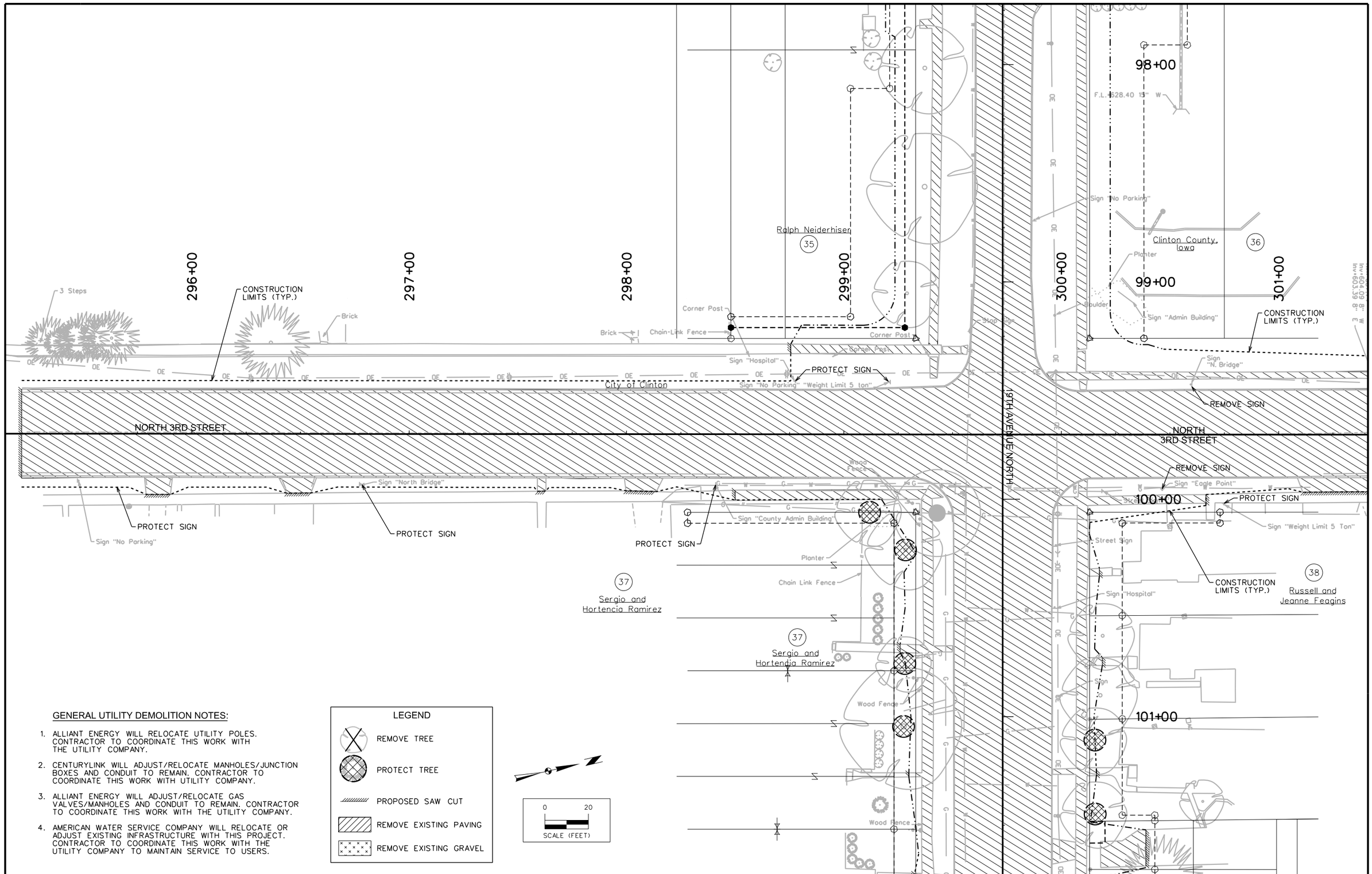
- PROTECT TREE
- PROPOSED SAW CUT
- REMOVE EXISTING PAVING
- REMOVE EXISTING GRAVEL



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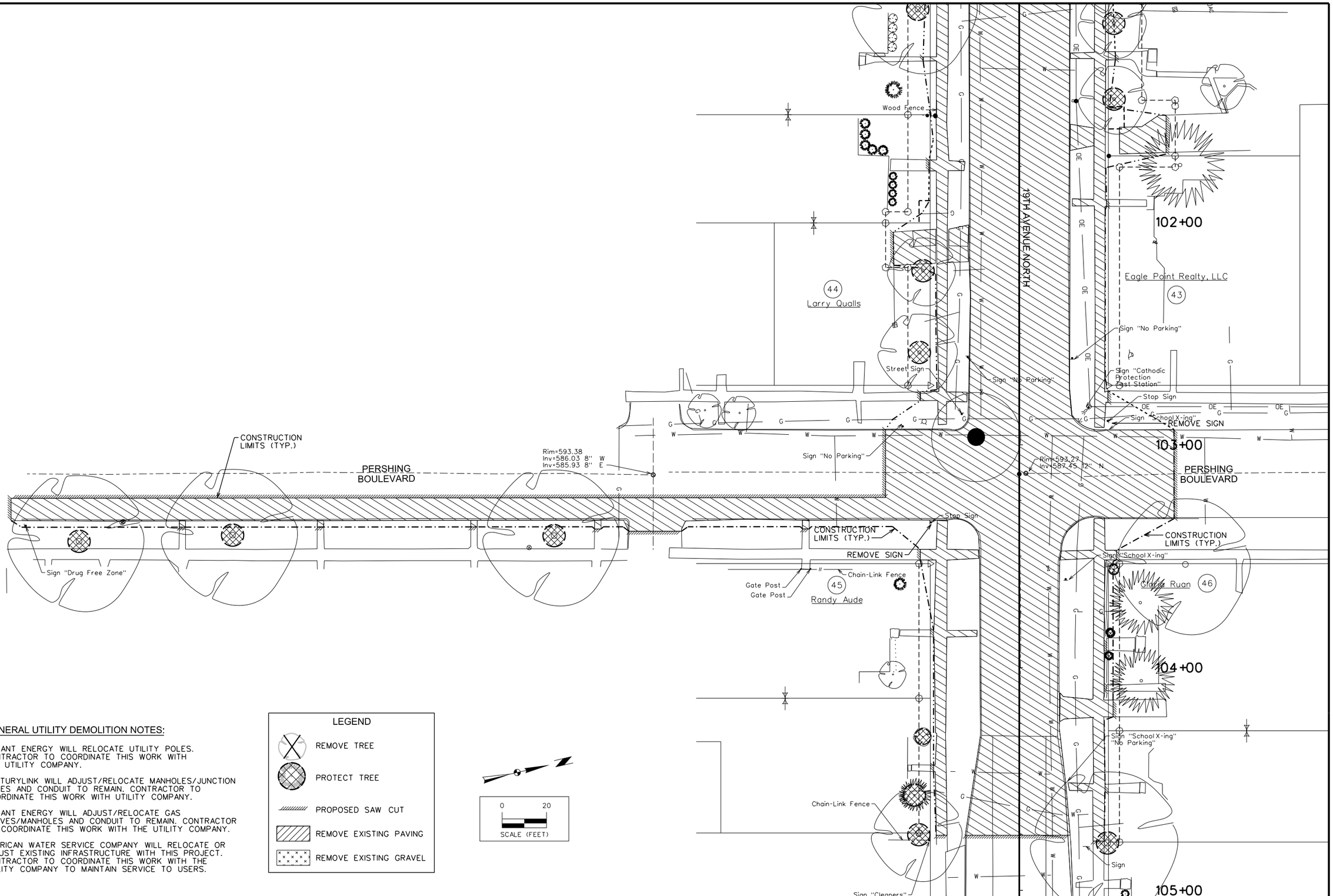
0 20
SCALE (FEET)

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	R.8



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LEGEND

- REMOVE TREE
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- PROPOSED SAW CUT
- REMOVE EXISTING PAVING
- REMOVE EXISTING GRAVEL

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Point to Point		Sidewalk Designation	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			
			FT	FT	%	Pos. or Neg.		%			Point	Station	Offset	Elevation
W1001	W1004	Ramp Running Slope	8.00	0.50	6.3%	0.5% to 8.3%					W1001	82+20.01	-27.50	696.88
W1001	W1003	Ramp Cross Slope	5.00	0.07	1.4%	0.1% to 2.0%					W1002	82+23.61	-32.50	696.91
W1002	W1003	Sidewalk Running Slope	3.60	0.04	1.1%	0.5% to 5.0%					W1003	82+20.01	-32.50	696.95
W1003	W1005	Ramp Running Slope	8.00	0.50	6.3%	0.5% to 8.3%					W1004	82+12.01	-27.50	697.38
W1004	W1005	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%					W1005	82+12.01	-32.50	697.45
W1004	W1006	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%					W1006	82+07.01	-27.50	697.45
W1005	W1007	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%					W1007	80+07.01	-32.50	697.52
W1006	W1007	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%					W1008	81+92.01	-27.50	698.10
W1006	W1008	Sidewalk Running Slope	15.00	0.65	4.3%	0.5% to 5.0%	Yes				W1009	81+92.01	-32.50	698.17
W1007	W1009	Sidewalk Running Slope	15.00	0.65	4.3%	0.5% to 5.0%	Yes							
W1008	W1009	Sidewalk Cross Slope	5.00	0.07	1.4%	0.5% to 2.0%								
W1101	W1104	Ramp Running Slope	6.00	0.38	6.3%	0.5% to 8.3%					W1101	82+57.54	-27.50	695.88
W1101	W1103	Ramp Cross Slope	5.00	0.07	1.4%	0.1% to 2.0%					W1102	82+53.94	-32.50	695.96
W1102	W1103	Sidewalk Running Slope	3.60	-0.01	-0.3%	0.5% to 5.0%					W1103	82+57.54	-32.50	695.95
W1103	W1105	Ramp Running Slope	6.00	0.38	6.3%	0.5% to 8.3%					W1104	82+63.54	-27.50	696.26
W1104	W1105	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%					W1105	82+63.54	-32.50	696.33
W1104	W1106	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%					W1106	82+68.54	-27.50	696.33
W1105	W1107	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%					W1107	82+68.54	-32.50	696.40
W1106	W1107	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%								
										W1200 series has been omitted from the plans.	W1200			
W1301	W1309	Sidewalk Running Slope	4.30	0.20	4.7%	0.5% to 5.0%	Yes				W1301	85+64.36	-30.12	685.23
W1302	W1303	Ramp Running Slope	6.45	0.45	6.9%	0.5% to 8.3%					W1302	85+59.89	-25.27	685.38
W1302	W1309	Ramp Cross Slope	5.00	0.05	1.0%	0.1% to 2.0%					W1303	85+53.44	-25.49	685.83
W1303	W1304	Landing/Turning Space	5.00	0.08	1.5%	0.1% to 2.0%					W1304	85+48.44	-25.67	685.91
W1303	W1308	Landing/Turning Space	5.00	0.07	1.5%	0.1% to 2.0%					W1305	85+31.00	-27.50	686.66
W1304	W1305	Sidewalk Running Slope	17.58	0.75	4.3%	0.5% to 5.0%	Yes				W1306	85+31.00	-32.50	686.71
W1304	W1307	Landing/Turning Space	5.00	0.07	1.5%	0.1% to 2.0%					W1307	85+48.62	-30.67	685.98
W1305	W1306	Sidewalk Cross Slope	5.00	0.05	1.0%	0.5% to 2.0%					W1308	85+53.61	-30.49	685.91
W1306	W1307	Sidewalk Running Slope	17.75	-0.73	-4.1%	0.5% to 5.0%	Yes				W1309	85+60.06	-30.27	685.43
W1307	W1308	Landing/Turning Space	5.00	-0.08	-1.5%	0.1% to 2.0%								
W1308	W1309	Ramp Running Slope	6.45	-0.48	-7.4%	0.5% to 8.3%	Yes							
W1401	W1403	Landing/Turning Space	5.00	0.08	1.5%	0.1% to 2.0%					W1401	86+08.28	-24.50	683.64
W1401	W1407	Landing/Turning Space	5.00	0.08	1.5%	0.1% to 2.0%					W1402	86+03.28	-29.50	683.78
W1402	W1403	Sidewalk Running Slope	5.00	-0.06	-1.3%	0.5% to 5.0%					W1403	86+08.28	-29.50	683.72
W1403	W1404	Landing/Turning Space	5.00	0.07	1.5%	0.1% to 2.0%					W1404	86+13.28	-29.50	683.79
W1404	W1405	Sidewalk Running Slope	10.00	0.30	3.0%	0.5% to 5.0%					W1405	86+23.28	-29.50	684.09
W1404	W1407	Landing/Turning Space	5.00	-0.07	-1.5%	0.1% to 2.0%					W1406	86+23.28	-24.50	684.02
W1405	W1406	Sidewalk Cross Slope	5.00	-0.08	-1.5%	0.5% to 2.0%					W1407	86+13.28	-24.50	683.72
W1406	W1407	Sidewalk Running Slope	10.00	-0.30	-3.0%	0.5% to 5.0%								
W1501	W1503	Sidewalk Cross Slope	8.00	-0.07	-0.9%	0.5% to 2.0%					W1501	89+06.86	27.50	674.07
W1501	W1513	Ramp Running Slope	8.40	0.36	4.3%	0.5% to 8.3%					W1502	89+10.46	32.50	673.84
W1502	W1503	Sidewalk Running Slope	3.60	0.16	4.4%	0.5% to 5.0%	Yes				W1503	89+06.86	32.50	674.00
W1503	W1504	Ramp Running Slope	8.40	0.50	6.0%	0.5% to 8.3%					W1504	88+98.46	32.50	674.50
W1504	W1505	Landing/Turning Space	8.00	0.12	1.5%	0.1% to 2.0%					W1505	88+90.46	32.50	674.62
W1504	W1513	Landing/Turning Space	5.00	-0.08	-1.5%	0.1% to 2.0%					W1506	88+80.46	33.50	675.73
W1505	W1506	Ramp Running Slope	15.00	1.10	7.3%	0.5% to 8.3%					W1507	88+80.46	24.50	675.59
W1505	W1508	Landing/Turning Space	8.00	-0.12	-1.5%	0.1% to 2.0%					W1508	88+90.46	24.50	674.50
W1506	W1507	Sidewalk Cross Slope	9.00	-0.13	-1.5%	0.5% to 2.0%					W1509	88+90.46	21.54	674.33
W1507	W1508	Ramp Running Slope	15.00	-1.09	-7.2%	0.5% to 8.3%					W1510	88+90.46	19.57	674.37
W1508	W1509	Ramp Running Slope	2.96	-0.17	-5.9%	0.5% to 8.3%					W1511	88+98.46	21.56	674.25
W1508	W1512	Landing/Turning Space	8.00	-0.12	-1.5%	0.1% to 2.0%					W1512	88+98.46	24.50	674.38
W1509	W1510	Sidewalk Running Slope	1.96	0.04	2.0%	0.5% to 5.0%					W1513	88+98.46	27.50	674.43
W1509	W1511	Sidewalk Cross Slope	8.00	-0.08	-1.0%	0.5% to 2.0%								
W1511	W1512	Ramp Running Slope	2.94	0.13	4.6%	0.5% to 8.3%								
W1512	W1513	Landing/Turning Space	3.00	0.04	1.5%	0.1% to 2.0%								
W1601	W1611	Ramp Running Slope	12.08	0.70	5.8%	0.5% to 8.3%					W1601	89+10.55	-32.50	673.48
W1602	W1603	Ramp Running Slope	5.15	0.34	6.6%	0.5% to 8.3%					W1602	89+03.61	-24.50	673.76
W1603	W1604	Ramp Running Slope	2.98	-0.18	-6.0%	0.5% to 8.3%					W1603	88+98.47	-24.50	674.10
W1603	W1607	Landing/Turning Space	8.00	0.12	1.5%	0.1% to 2.0%					W1604	88+98.46	-21.52	673.92
W1603	W1611	Landing/Turning Space	8.00	0.08	1.0%	0.1% to 2.0%					W1605	88+90.46	-19.57	674.14
W1604	W1606	Ramp Cross Slope	8.00	0.12	1.5%	0.1% to 2.0%					W1606	88+90.46	-21.54	674.04
W1605	W1606	Ramp Running Slope	1.97	-0.10	-5.1%	0.5% to 8.3%					W1607	88+90.47	-24.50	674.22
W1606	W1607	Ramp Running Slope	2.96	0.18	6.0%	0.5% to 8.3%					W1608	88+75.47	-24.50	675.35
W1607	W1608	Ramp Running Slope	15.00	1.13	7.5%	0.5% to 8.3%	Yes				W1609	88+75.47	-29.50	675.43
W1607	W1610	Landing/Turning Space	8.00	0.08	1.0%	0.1% to 2.0%					W1610	88+90.47	-32.50	674.30
W1608	W1609	Sidewalk Cross Slope	5.00	0.07	1.5%	0.5% to 2.0%					W1611	88+98.47	-32.50	674.18

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Point to Point		Sidewalk Designation	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			
			FT	FT	%	Pos. or Neg.		%				Point	Station	Offset	Elevation
W1609	W1610	Ramp Running Slope	15.30	-1.13	-7.4%	0.5% to 8.3%	Yes								
W1610	W1611	Landing/Turning Space	8.00	-0.12	-1.5%	0.1% to 2.0%									
W1701	W1703	Ramp Cross Slope	5.00	0.07	1.4%	0.1% to 2.0%						W1701	89+51.33	27.50	671.99
W1701	W1704	Ramp Running Slope	6.00	0.12	2.0%	0.5% to 8.3%						W1702	89+47.73	32.50	671.99
W1702	W1703	Sidewalk Running Slope	3.60	0.07	1.9%	0.5% to 5.0%						W1703	89+51.33	32.50	672.06
W1703	W1705	Ramp Running Slope	6.00	0.12	2.0%	0.5% to 8.3%						W1704	89+57.33	27.50	672.11
W1704	W1705	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%						W1705	89+57.33	32.50	672.18
W1704	W1706	Landing/Turning Space	5.00	0.05	1.0%	0.1% to 2.0%						W1706	89+62.33	27.50	672.16
W1705	W1707	Landing/Turning Space	5.00	0.05	1.0%	0.1% to 2.0%						W1707	89+62.33	32.50	672.23
W1706	W1707	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%									
W1801	W1803	Landing/Turning Space	8.00	0.14	1.7%	0.1% to 2.0%	Yes					W1801	89+54.96	-24.50	671.39
W1801	W1804	Landing/Turning Space	6.00	0.08	1.3%	0.1% to 2.0%						W1802	89+48.03	-32.50	671.66
W1802	W1803	Landing/Turning Space	6.93	-0.13	-1.9%	0.1% to 2.0%	Yes					W1803	89+54.96	-32.50	671.53
W1803	W1805	Landing/Turning Space	6.00	0.05	0.8%	0.1% to 2.0%						W1804	89+59.96	-24.50	671.47
W1804	W1805	Sidewalk Cross Slope	8.00	0.11	1.4%	0.5% to 2.0%						W1805	89+59.96	-32.50	671.58
W1804	W1806	Sidewalk Running Slope	5.00	0.18	3.6%	0.5% to 5.0%						W1806	89+67.96	-24.50	671.65
W1805	W1807	Sidewalk Running Slope	5.00	0.17	3.4%	0.5% to 5.0%						W1807	89+67.96	-32.50	671.75
W1806	W1807	Sidewalk Cross Slope	8.00	0.10	1.3%	0.5% to 2.0%									
W1901	W1905	Sidewalk Running Slope	1.26	0.01	0.8%	0.5% to 5.0%						W1901	92+37.45	19.76	659.24
W1902	W1905	Crosswalk Cross Slope - No Yield Condition	5.00	0.27	5.4%	0.0% to 6.4%						W1902	92+42.44	21.03	658.98
W1902	W1907	Ramp Running Slope	6.47	0.14	2.2%	0.5% to 8.3%						W1903	92+52.17	27.50	658.54
W1903	W1906	Ramp Cross Slope	5.00	-0.07	-1.4%	0.1% to 2.0%						W1904	92+55.77	32.50	658.30
W1903	W1907	Ramp Running Slope	9.73	0.58	6.0%	0.5% to 8.3%						W1905	92+37.45	21.03	659.25
W1904	W1906	Sidewalk Running Slope	3.60	0.17	4.7%	0.5% to 5.0%	Yes					W1906	92+52.17	32.50	658.47
W1905	W1909	Ramp Running Slope	6.47	-0.06	-0.9%	0.5% to 8.3%						W1907	92+42.44	27.50	659.12
W1906	W1908	Ramp Running Slope	9.73	0.71	7.3%	0.5% to 8.3%						W1908	92+42.45	32.50	659.18
W1907	W1908	Landing/Turning Space	5.00	0.06	1.2%	0.1% to 2.0%						W1909	92+37.45	27.50	659.19
W1907	W1909	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%						W1910	92+37.45	32.50	659.24
W1908	W1910	Landing/Turning Space	5.00	0.06	1.2%	0.1% to 2.0%						W1911	92+45.29	48.39	657.69
W1908	W1912	Sidewalk Running Slope	17.77	-1.48	-8.3%	0.5% to 9.3%				Length constructed must exceed 15 feet at a uniform running slope		W1912	92+49.82	48.35	657.70
W1909	W1910	Landing/Turning Space	5.00	0.05	1.0%	0.1% to 2.0%						W1913	92+22.45	24.50	660.39
W1910	W1911	Sidewalk Running Slope	18.32	-1.55	-8.5%	0.5% to 9.5%				Length constructed must exceed 15 feet at a uniform running slope		W1914	92+22.45	29.50	660.44
W1911	W1912	Match Existing Cross Slope	4.50	0.01	0.2%	Match Existing									
W1909	W1913	Ramp Running Slope	15.40	1.20	7.8%	0.5% to 8.3%	Yes								
W1910	147	Ramp Running Slope	15.40	#N/A	#N/A	#N/A	#N/A								
W1913	W1914	Ramp Cross Slope	5.00	0.05	1.0%	0.1% to 2.0%									
W2001	W2005	Sidewalk Running Slope	1.19	-0.03	-2.5%	0.5% to 5.0%						W2001	92+37.45	-19.72	659.11
W2002	W2005	Crosswalk Cross Slope - No Yield Condition	5.00	0.06	1.2%	0.0% to 5.0%						W2002	92+42.44	20.91	659.02
W2002	W2007	Ramp Running Slope	3.59	-0.03	-0.8%	0.5% to 8.3%						W2003	92+49.16	-24.50	658.88
W2003	W2006	Landing/Turning Space	8.00	-0.12	-1.5%	0.1% to 2.0%						W2004	92+56.09	-32.50	658.63
W2003	W2007	Landing/Turning Space	6.72	0.11	1.6%	0.1% to 2.0%	Yes					W2005	92+37.45	-20.91	659.08
W2004	W2006	Landing/Turning Space	6.93	0.13	1.9%	0.1% to 2.0%	Yes					W2006	92+49.16	-32.50	658.76
W2005	W2009	Ramp Running Slope	3.59	-0.02	-0.6%	0.5% to 8.3%						W2007	92+42.44	-24.50	658.99
W2006	W2008	Landing/Turning Space	6.72	0.13	1.9%	0.1% to 2.0%	Yes					W2008	92+42.44	-32.50	658.89
W2007	W2008	Landing/Turning Space	8.00	-0.10	-1.3%	0.1% to 2.0%						W2009	92+37.45	-24.50	659.06
W2007	W2009	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%						W2010	92+37.45	-32.50	658.95
W2008	W2010	Landing/Turning Space	5.00	0.06	1.2%	0.1% to 2.0%						W2011	92+42.44	-48.50	657.90
W2008	W2011	Sidewalk Running Slope	16.00	-0.99	-6.2%	0.5% to 7.2%				Length constructed must exceed 15 feet at a uniform running slope		W2012	92+37.45	-48.50	657.83
W2009	W2010	Landing/Turning Space	8.00	-0.11	-1.4%	0.1% to 2.0%									
W2010	W2012	Sidewalk Running Slope	16.00	-1.12	-7.0%	0.5% to 8%				Length constructed must exceed 15 feet at a uniform running slope					
W2011	W2012	Match Existing Cross Slope	5.00	-0.07	-1.4%	Match Existing				Transition cross slope					
W2101	W2105	Sidewalk Running Slope	3.60	0.02	0.6%	0.5% to 5.0%						W2101	92+92.83	32.50	656.49
W2102	W2105	Ramp Cross Slope	5.00	0.09	1.8%	0.1% to 2.0%	Yes					W2102	92+96.43	27.50	656.42
W2102	W2107	Ramp Running Slope	12.85	-0.02	-0.2%	0.5% to 8.3%						W2103	93+09.28	20.11	655.98
W2103	W2106	Crosswalk Cross Slope - No Yield Condition	5.00	-0.15	-3.0%	0.0% to 5.0%						W2104	93+14.28	19.50	655.81
W2103	W2107	Ramp Running Slope	7.39	0.42	5.7%	0.5% to 8.3%						W2105	92+96.43	32.50	656.51
W2104	W2106	Sidewalk Running Slope	0.61	0.02	3.3%	0.5% to 5.0%						W2106	93+14.28	20.11	655.83
W2105	W2108	Ramp Running Slope	12.85	-0.05	-0.4%	0.5% to 8.3%						W2107	93+09.28	27.50	656.40
W2106	W2109	Ramp Running Slope	7.39	0.59	8.0%	0.5% to 8.3%	Yes					W2108	93+09.28	32.50	656.46
W2107	W2108	Landing/Turning Space	5.00	0.06	1.2%	0.1% to 2.0%						W2109	93+14.28	27.50	656.42
W2107	W2109	Landing/Turning Space	5.00	0.02	0.4%	0.1% to 2.0%						W2110	93+14.28	32.50	656.48
W2108	W2110	Landing/Turning Space	5.00	0.02	0.4%	0.1% to 2.0%									
W2109	W2110	Landing/Turning Space	5.00	0.06	1.2%	0.1% to 2.0%									

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Point to Point		Sidewalk Designation	Distance* FT	Δ Elevation FT	Slope %	Acceptable Constructed Range Pos. or Neg.	Staking Required on this Quadrant? (1)	Measured Slope %	Initials	Remarks		FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES Point	Station	Offset	Elevation
W2201	W2205	Sidewalk Running Slope	11.93	-0.07	-0.6%	0.5% to 5.0%						W2201	92+93.49	-32.50	656.49
W2202	W2205	Ramp Cross Slope	8.00	0.11	1.4%	0.1% to 2.0%						W2202	93+00.43	-24.50	656.31
W2202	W2207	Ramp Running Slope	8.85	-0.33	-3.7%	0.5% to 8.3%						W2203	93+09.28	-20.27	655.85
W2203	W2204	Crosswalk Cross Slope - No Yield Condition	5.00	-0.25	-5.0%	0.0% to 5.0%						W2204	93+14.28	-19.51	655.60
W2203	W2207	Ramp Running Slope	4.23	0.13	3.1%	0.5% to 8.3%						W2205	93+00.43	-32.50	656.42
W2204	W2206	Sidewalk Cross Slope	5.00	0.03	0.6%	0.5% to 2.0%						W2206	93+14.28	-20.27	655.63
W2205	W2208	Ramp Running Slope	8.85	-0.46	-5.2%	0.5% to 8.3%						W2207	93+09.28	-24.50	655.98
W2206	W2209	Ramp Running Slope	4.23	0.32	7.6%	0.5% to 8.3%	Yes					W2208	93+09.28	-32.50	655.96
W2207	W2208	Landing/Turning Space	8.00	-0.02	-0.2%	0.1% to 2.0%						W2209	93+14.28	-24.50	655.95
W2207	W2209	Landing/Turning Space	5.00	-0.03	-0.6%	0.1% to 2.0%						W2210	93+14.28	-32.50	656.05
W2208	W2210	Landing/Turning Space	5.00	0.09	1.8%	0.1% to 2.0%	Yes					W2211	92+97.84	-50.55	656.01
W2208	W2211	Sidewalk Running Slope	22.54	0.05	0.2%	0.5% to 5.0%						W2212	93+02.70	-50.59	656.05
W2209	W2210	Landing/Turning Space	8.00	0.10	1.2%	0.1% to 2.0%						W2213	93+05.43	-24.50	656.40
W2210	W2212	Sidewalk Running Slope	22.67	0.00	0.0%	0.5% to 5.0%						W2214	93+22.28	-24.50	655.79
W2211	W2212	Match Existing Cross Slope	5.00	0.04	0.8%	Match Existing						W2215	93+22.28	-32.50	655.91
W2202	W2213	Landing/Turning Space	5.00	0.09	1.8%	0.1% to 2.0%	Yes								
W2209	W2214	Sidewalk Running Slope	8.00	-0.16	-2.0%	0.5% to 5.0%									
W2210	W2215	Sidewalk Running Slope	8.00	-0.14	-1.7%	0.5% to 5.0%									
W2214	W2215	Landing/Turning Space	8.00	0.12	1.5%	0.1% to 2.0%									
W2301	W2305	Sidewalk Running Slope	1.44	0.04	2.8%	0.5% to 5.0%						W2301	99+29.02	19.89	613.56
W2302	W2305	Crosswalk Cross Slope - No Yield Condition	5.00	0.32	6.4%	0.0% to 7.4%						W2302	99+34.02	21.33	613.28
W2302	W2307	Ramp Running Slope	6.17	0.15	2.4%	0.5% to 8.3%						W2303	99+42.96	27.50	612.85
W2303	W2307	Ramp Running Slope	8.94	0.58	6.5%	0.5% to 8.3%						W2304	99+46.56	32.50	612.65
W2303	W2306	Ramp Cross Slope	5.00	-0.04	-0.8%	0.1% to 2.0%						W2305	99+29.02	21.33	613.60
W2304	W2306	Sidewalk Running Slope	3.60	0.16	4.4%	0.5% to 5.0%	Yes					W2306	99+42.96	32.50	612.81
W2305	W2309	Ramp Running Slope	6.17	-0.10	-1.6%	0.5% to 8.3%						W2307	99+34.02	27.50	613.43
W2306	W2308	Ramp Running Slope	9.83	0.69	7.0%	0.5% to 8.3%						W2308	99+33.13	32.50	613.50
W2307	W2308	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%						W2309	99+29.02	27.50	613.50
W2307	W2309	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%						W2310	99+28.17	32.50	613.57
W2308	W2310	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%						W2311	99+33.13	97.50	618.63
W2309	W2310	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%						W2312	99+28.76	97.50	618.93
W2308	W2311	Ramp Running Slope	65.00	5.13	7.9%	0.5% to 8.3%	Yes			Length constructed must exceed 15 feet at a uniform running slope		W2313	99+04.67	27.50	615.98
W2311	W2312	Match Existing Cross Slope	4.73	0.30	6.3%	Match Existing						W2314	99+04.67	33.50	616.07
W2312	W2310	Ramp Running Slope	65.00	-5.36	-8.2%	0.5% to 8.3%	Yes			Length constructed must exceed 15 feet at a uniform running slope					
W2310	W2314	Ramp Running Slope	24.35	2.50	10.3%					Ramp constructed to resume typical section at intake for drainage					
W2314	W2313	Ramp Cross Slope	6.00	-0.09	-1.5%	0.1% to 2.0%									
W2313	W2309	Ramp Running Slope	24.35	-2.48	-10.2%	0.5% to 11.2%				Ramp constructed to resume typical section at intake for drainage					
W2401	W2405	Ramp Running Slope	1.43	-0.05	-3.5%	0.5% to 8.3%						W2401	99+29.02	-19.88	613.27
W2402	W2405	Crosswalk Cross Slope - No Yield Condition	5.00	0.20	4.0%	0.0% to 5.0%						W2402	99+34.02	-21.30	613.02
W2402	W2407	Ramp Running Slope	3.20	-0.14	-4.4%	0.5% to 8.3%						W2403	99+39.70	-24.50	612.42
W2403	W2406	Ramp Cross Slope	5.00	0.02	0.4%	0.1% to 2.0%						W2404	99+46.63	-32.50	612.11
W2404	W2406	Ramp Running Slope	6.93	0.33	4.8%	0.5% to 8.3%						W2405	99+29.02	-21.30	613.22
W2403	W2407	Ramp Running Slope	5.68	0.46	8.1%	0.5% to 8.3%	Yes					W2406	99+39.70	-32.50	612.44
W2405	W2409	Ramp Running Slope	3.20	-0.26	-8.1%	0.5% to 8.3%	Yes					W2407	99+34.02	-24.50	612.88
W2406	W2408	Ramp Running Slope	5.68	0.46	8.1%	0.5% to 8.3%	Yes					W2408	99+34.05	-32.50	612.90
W2407	W2408	Landing/Turning Space	8.00	0.02	0.2%	0.1% to 2.0%						W2409	99+29.02	-24.50	612.96
W2407	W2409	Landing/Turning Space	5.00	0.08	1.6%	0.1% to 2.0%	Yes					W2410	99+29.02	-32.50	612.99
W2408	W2410	Landing/Turning Space	5.00	0.09	1.8%	0.1% to 2.0%	Yes					W2411	99+02.67	-33.50	615.59
W2409	W2410	Landing/Turning Space	8.00	0.03	0.4%	0.1% to 2.0%						W2412	99+02.67	-24.50	615.46
W2409	W2412	Ramp Running Slope	26.35	2.50	9.5%					Ramp constructed to resume typical section at intake for drainahe		W2413	99+46.23	-62.61	611.60
W2412	W2411	Ramp Cross Slope	9.00	0.13	1.4%	0.1% to 2.0%						W2414	99+41.23	-62.61	611.67
W2411	W2410	Ramp Running Slope	26.35	-2.60	-9.9%	0.5% to 10.9%				Ramp constructed to resume typical section at intake for drainage					
W2410	W2414	Ramp Running Slope	31.83	-1.32	-4.1%	0.5% to 8.3%									
W2414	W2413	Ramp Cross Slope	5.00	-0.07	-1.4%	0.1% to 2.0%									
W2413	W2408	Ramp Running Slope	32.76	1.30	4.0%	0.5% to 8.3%									
W2501	W2505	Sidewalk Running Slope	3.60	-0.16	-4.4%	0.5% to 5.0%	Yes					W2501	99+93.70	32.50	610.68
W2502	W2505	Ramp Cross Slope	5.00	0.01	0.2%	0.1% to 2.0%						W2502	99+97.30	27.50	610.51
W2502	W2507	Ramp Running Slope	2.68	-0.17	-6.3%	0.5% to 8.3%						W2503	99+99.98	25.00	610.27
W2503	W2506	Ramp Cross Slope	5.00	-0.09	-1.8%	0.1% to 2.0%	Yes					W2504	100+04.98	21.88	610.03
W2503	W2507	Ramp Running Slope	2.50	0.07	2.8%	0.5% to 8.3%						W2505	99+97.30	32.50	610.52
W2504	W2506	Sidewalk Running Slope	3.12	0.15	4.8%	0.5% to 5.0%	Yes					W2506	100+04.98	25.00	610.18
W2505	W2508	Ramp Running Slope	2.68	-0.10	-3.7%	0.5% to 8.3%						W2507	99+99.98	27.50	610.34
W2506	W2509	Ramp Running Slope	2.50	0.12	4.8%	0.5% to 8.3%						W2508	99+99.98	32.50	610.42
W2507	W2508	Landing/Turning Space	5.00	0.08	1.6%	0.1% to 2.0%	Yes					W2509	100+04.98	27.50	610.30
W2507	W2509	Landing/Turning Space	5.00	-0.04	-0.8%	0.1% to 2.0%						W2510	100+04.98	32.50	610.38
W2508	W2510	Landing/Turning Space	5.00	-0.04	-0.8%	0.1% to 2.0%						W2511	100+14.98	27.50	610.24
W2509	W2510	Landing/Turning Space	5.00	0.08	1.6%	0.1% to 2.0%	Yes					W2512	100+14.98	32.50	610.29
W2509	W2511	Sidewalk Running Slope	10.00	-0.06	-0.6%	0.5% to 5.0%						W2513	99+96.45	48.70	611.56
W2510	W2512	Sidewalk Running Slope	10.00	-0.09	-0.9%	0.5% to 5.0%						W2514	100+01.68	48.70	611.63
W2511	W2512	Sidewalk Cross Slope	5.00	0.05	1.0%	0.5% to 2.0%									
W2508	W2513	Ramp Running Slope	16.70	1.14	6.8%	0.5% to 8.3%									

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Point to Point		Sidewalk Designation	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			
			FT	FT	%	Pos. or Neg.		%				Point	Station	Offset	Elevation
W2510	W2514	Ramp Running Slope	16.70	1.25	7.5%	0.5% to 8.3%	Yes								
W2513	W2514	Ramp Cross Slope	5.00	0.07	1.4%	0.1% to 2.0%									
W2601	W2603	Landing/Turning Space	6.19	-0.09	-1.5%	0.1% to 2.0%						W2601	99+93.77	-32.50	610.09
W2602	W2604	Landing/Turning Space	2.58	0.03	1.2%	0.1% to 2.0%						W2602	100+04.96	-21.92	609.77
W2603	W2605	Landing/Turning Space	5.00	-0.07	-1.4%	0.1% to 2.0%						W2603	99+99.96	-32.50	610.00
W2604	W2605	Landing/Turning Space	8.00	0.13	1.6%	0.1% to 2.0%	Yes					W2604	100+04.96	-24.50	609.80
W2604	W2606	Sidewalk Running Slope	8.00	0.05	0.6%	0.5% to 5.0%						W2605	100+04.96	-32.50	609.93
W2605	W2607	Sidewalk Running Slope	8.00	0.05	0.6%	0.5% to 5.0%						W2606	100+12.96	-24.50	609.85
W2606	W2607	Sidewalk Cross Slope	8.00	0.13	1.6%	0.5% to 2.0%	Yes					W2607	100+12.96	-32.50	609.98
W2603	W2608	Ramp Running Slope	9.20	0.60	6.5%	0.5% to 8.3%						W2608	99+97.85	-41.35	610.60
W2605	W2609	Ramp Running Slope	9.20	0.72	7.8%	0.5% to 8.3%	Yes					W2609	100+02.85	-41.35	610.65
W2608	W2609	Ramp Cross Slope	5.00	0.05	1.0%	0.1% to 2.0%									
W2701	W2705	Sidewalk Running Slope	0.60	0.02	3.3%	0.5% to 5.0%						W2701	102+68.45	19.50	594.12
W2702	W2705	Crosswalk Cross Slope - No Yield Condition	5.00	0.22	4.4%	0.0% to 5.0%						W2702	102+73.45	20.11	593.92
W2702	W2707	Ramp Running Slope	7.39	-0.05	-0.7%	0.5% to 8.3%						W2703	102+86.32	27.50	593.39
W2703	W2706	Ramp Cross Slope	5.00	-0.02	-0.4%	0.1% to 2.0%						W2704	102+89.91	32.50	593.27
W2703	W2708	Ramp Running Slope	6.09	0.43	7.1%	0.5% to 8.3%						W2705	102+68.45	20.11	594.14
W2704	W2706	Sidewalk Running Slope	3.60	0.10	2.8%	0.5% to 5.0%						W2706	102+86.31	32.50	593.37
W2705	W2709	Ramp Running Slope	7.39	-0.21	-2.8%	0.5% to 8.3%						W2707	102+73.45	27.50	593.87
W2706	W2710	Ramp Running Slope	7.39	0.52	7.0%	0.5% to 8.3%						W2708	102+80.22	27.50	593.82
W2707	W2708	Landing/Turning Space	6.76	-0.05	-0.7%	0.1% to 2.0%						W2709	102+68.45	27.50	593.93
W2708	W2710	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%						W2710	102+80.22	32.50	593.89
W2709	W2711	Landing/Turning Space	5.00	0.07	1.4%	0.1% to 2.0%						W2711	102+76.24	32.50	594.00
W2710	W2712	Landing/Turning Space	5.00	0.06	1.2%	0.1% to 2.0%						W2712	102+76.24	32.50	593.95
W2710	W2713	Sidewalk Running Slope	11.91	0.20	1.7%	0.5% to 5.0%						W2713	102+80.22	44.41	594.09
W2711	W2712	Landing/Turning Space	7.79	-0.05	-0.6%	0.1% to 2.0%						W2714	102+76.24	44.41	594.21
W2712	W2714	Sidewalk Running Slope	11.91	0.26	2.2%	0.5% to 5.0%						W2715	102+53.45	27.50	595.13
W2713	W2714	Match Existing Cross Slope	5.00	0.12	2.4%	Match Existing				Transition cross slope		W2716	102+53.45	32.50	595.20
W2709	W2715	Ramp Running Slope	15.00	1.20	8.0%	0.5% to 8.3%	Yes								
W2711	W2716	Ramp Running Slope	15.00	1.20	8.0%	0.5% to 8.3%	Yes								
W2715	W2716	Ramp Cross Slope	5.00	0.07	1.4%	0.1% to 2.0%									
W2801	W2802	Crosswalk Cross Slope - No Yield Condition	5.47	-0.09	-1.6%	0.0% to 5.0%						W2801	102+68.45	-19.50	593.89
W2801	W2805	Ramp Running Slope	5.00	-0.08	-1.6%	0.5% to 8.3%						W2802	102+73.93	-20.19	593.80
W2802	W2803	Crosswalk Cross Slope - No Yield Condition	11.08	-0.21	-1.9%	0.0% to 5.0%						W2803	102+83.86	-25.08	593.59
W2803	W2806	Landing/Turning Space	8.00	-0.08	-1.0%	0.1% to 2.0%						W2804	102+90.01	-32.50	593.39
W2804	W2806	Landing/Turning Space	9.00	0.12	1.3%	0.1% to 2.0%						W2805	102+68.45	-24.50	593.81
W2805	W2807	Landing/Turning Space	8.00	-0.11	-1.4%	0.1% to 2.0%						W2806	102+81.05	-32.50	593.51
W2806	W2807	Landing/Turning Space	12.60	0.19	1.5%	0.1% to 2.0%						W2807	102+68.45	-32.50	593.70
W2806	W2809	Sidewalk Running Slope	7.26	0.22	3.0%	0.5% to 5.0%						W2808	102+75.72	-39.77	593.80
W2807	W2808	Sidewalk Running Slope	10.27	0.10	1.0%	0.5% to 5.0%						W2809	102+81.05	-39.77	593.73
W2808	W2809	Match Existing Cross Slope	5.00	-0.07	-1.4%	Match Existing						W2810	102+43.45	-24.50	595.55
W2805	W2810	Ramp Running Slope	25.00	1.74	7.0%	0.5% to 8.3%						W2811	102+43.45	-32.50	595.59
W2807	W2811	Ramp Running Slope	25.00	1.89	7.6%	0.5% to 8.3%	Yes								
W2810	W2811	Ramp Cross Slope	8.00	0.04	0.5%	0.1% to 2.0%									
W2901	W2905	Sidewalk Running Slope	3.60	0.04	1.1%	0.5% to 5.0%						W2901	103+36.82	32.50	592.35
W2902	W2905	Ramp Cross Slope	5.00	0.09	1.8%	0.1% to 2.0%	Yes					W2902	103+40.43	27.50	592.30
W2902	W2907	Ramp Running Slope	6.37	0.24	3.8%	0.5% to 8.3%						W2903	103+46.80	22.54	592.23
W2903	W2906	Ramp Cross Slope	5.00	-0.03	-0.6%	0.1% to 2.0%						W2904	103+51.80	20.49	592.18
W2904	W2906	Sidewalk Running Slope	2.06	0.02	1.0%	0.5% to 5.0%						W2905	103+40.43	32.50	592.39
W2905	W2908	Ramp Running Slope	6.48	0.21	3.2%	0.5% to 8.3%						W2906	103+51.80	22.54	592.20
W2906	W2909	Ramp Running Slope	4.96	0.35	7.1%	0.5% to 8.3%						W2907	103+46.80	27.50	592.54
W2907	W2908	Landing/Turning Space	5.00	0.06	1.2%	0.1% to 2.0%						W2908	103+46.90	32.50	592.60
W2907	W2909	Landing/Turning Space	5.00	0.01	0.2%	0.1% to 2.0%						W2909	103+51.80	27.50	592.55
W2908	W2910	Landing/Turning Space	5.00	0.01	0.2%	0.1% to 2.0%						W2910	103+51.70	32.50	592.61
W2908	W2911	Sidewalk Running Slope	11.93	0.59	4.9%	0.5% to 5.0%	Yes					W2911	103+46.90	44.43	593.19
W2909	W2910	Landing/Turning Space	5.00	0.06	1.2%	0.1% to 2.0%						W2912	103+51.70	44.43	593.20
W2910	W2912	Sidewalk Running Slope	11.93	0.59	4.9%	0.5% to 5.0%	Yes					W2913	103+61.50	27.50	592.86
W2911	W2912	Match Existing Cross Slope	5.00	0.01	0.2%	Match Existing				Transition cross slope		W2914	103+61.80	32.50	592.93
W2903	W2907	Ramp Running Slope	4.95	0.31	6.3%	0.5% to 8.3%									
W2909	W2913	Sidewalk Running Slope	10.00	0.31	3.1%	0.5% to 5.0%									
W2910	W2914	Sidewalk Running Slope	10.00	0.32	3.2%	0.5% to 5.0%									
W2913	W2914	Sidewalk Cross Slope	5.00	0.07	1.4%	0.5% to 2.0%									
W3001	W3005	Landing/Turning Space	6.54	-0.07	-1.1%	0.1% to 2.0%						W3001	103+36.22	-32.50	592.33
W3002	W3005	Landing/Turning Space	7.70	0.07	0.9%	0.1% to 2.0%						W3002	103+42.76	-24.80	592.19
W3002	W3003	Crosswalk Cross Slope - Yield Condition	4.32	-0.08	-1.9%	0.0% to 2.0%						W3003	103+46.37	-22.45	592.11
W3003	W3006	Ramp Cross Slope	5.43	-0.07	-1.3%	0.1% to 2.0%						W3004	103+51.80	-20.32	592.00
W3004	W3006	Sidewalk Running Slope	2.13	0.04	1.9%	0.5% to 5.0%						W3005	103+42.76	-32.50	592.26
W3005	W3009	Landing/Turning Space	4.60	-0.04	-0.9%	0.1% to 2.0%						W3006	103+51.80	-22.41	592.04
W3006	W3008	Ramp Running Slope	2.05	0.02	1.0%	0.5% to 8.3%						W3007	103+45.86	-25.17	592.15
W3007	W3008	Landing/Turning Space	6.00	-0.09	-1.5%	0.1% to 2.0%						W3008	103+51.80	-24.50	592.06
W3008	W3010	Landing/Turning Space	8.00	0.15	1.9%	0.1% to 2.0%	Yes					W3009	103+47.36	-32.50	592.22
W3009	W3010	Landing/Turning Space	4.35	-0.01	-0.2%	0.1% to 2.0%						W3010	103+51.70	-32.50	592.21

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.

Point to Point		Sidewalk Designation	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			
			FT	FT	%	Pos. or Neg.		%				Point	Station	Offset	Elevation
W3009	W3011	Sidewalk Running Slope	11.19	0.52	4.6%	0.5% to 5.0%	Yes					W3011	103+47.36	-43.70	592.74
W3010	W3012	Sidewalk Running Slope	11.19	0.55	4.9%	0.5% to 5.0%	Yes					W3012	103+51.70	-43.70	592.76
W3011	W3012	Match Existing Cross Slope	5.00	0.02	0.4%	Match Existing						W3013	103+59.80	-24.50	592.56
W3008	W3013	Ramp Running Slope	8.00	0.50	6.3%	0.5% to 8.3%						W3014	103+59.80	-32.50	592.68
W3010	W3014	Ramp Running Slope	8.00	0.47	5.9%	0.5% to 8.3%									
W3013	W3014	Ramp Cross Slope	8.00	0.12	1.5%	0.1% to 2.0%									

LEGEND

Features	Existing
Spot Elevation	93.0
Contour Elevation	93
Fence (Barbed, Field, Hog)	
Fence (Chain Link)	
Fence (Wood)	
Fence (Silt)	
Tree Line	
Tree Stump	
Deciduous Tree or Shrub	
Coniferous Tree or Shrub	
Underground Telephone	T
Overhead Telephone	OT
Fiber Optic Telephone	FO
Underground Electric	E
Overhead Electric	OE
Underground Television	TV
Overhead Television	OTV
Gas Main with Size	4" G
High Pressure Gas Main with Size	4" HPG
Low Pressure Gas Main with Size	4" LPG
Water Main with Size	8" W
Sanitary Sewer with Size	8" S
Sanitary Manhole	
Storm Sewer with Size	12" ST
Storm Manhole	
Single Storm Sewer Intake	
Double Storm Sewer Intake	
Fire Hydrant	
Fire Hydrant on Building	
Water Main Valve	
Water Service Valve	
Well	
Utility Pole	
Guy Anchor	
Utility Pole with Light	
Utility Pole with Transformer	
Street Light	
Yard Light	
Electric Box	EB
Electric Transformer	
Traffic Sign	
Telephone Junction Box	
Telephone Manhole	
Gas Valve	
Gas Manhole	
Gas Apparatus	
Cable TV Junction Box	
Cable TV Manhole	
Fence Post or Guard Post	
Underground Storage Tank	UST
Above Ground Storage Tank	AST
Sign	
Satellite Dish	
Mailbox	
Soil Boring	

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

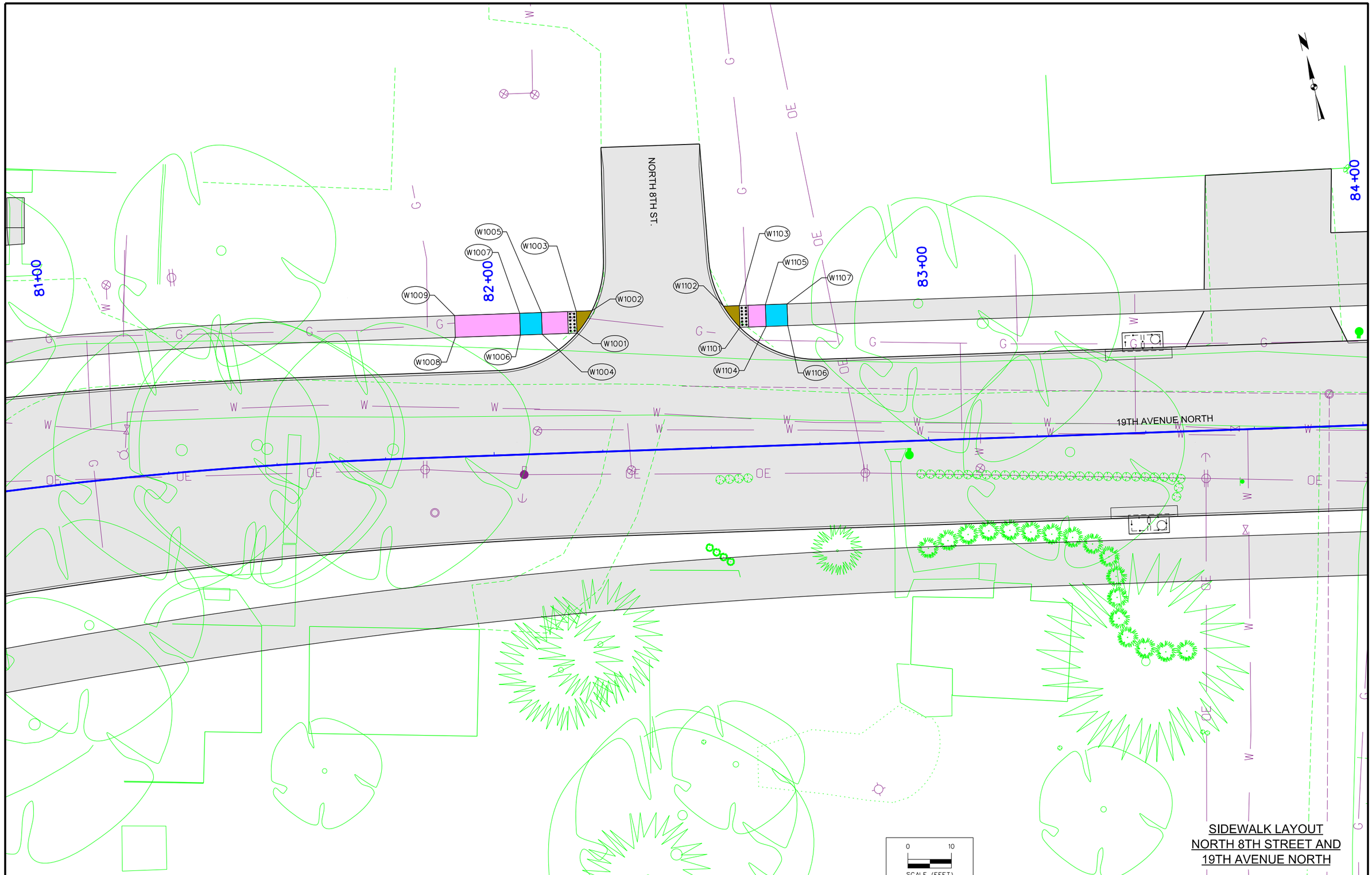
SHADING	Design Color No.	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading
Gray, Dark	(112)	Proposed Sidewalk Shading
Brown, Light	(236)	Grading Shading
Tan	(91)	Proposed Sidewalk Shading
Blue, Light	(29)	Proposed Sidewalk Landing Shading
Pink	(156)	Proposed Sidewalk Ramp Shading

Reference Point
Station
Survey Line
Section Corner
Ground Line Intercept
Saw Cut
Guardrail
Clearing & Grubbing Area
Pavement Removal
Detectable Warning Panel

RIGHT-OF-WAY LEGEND

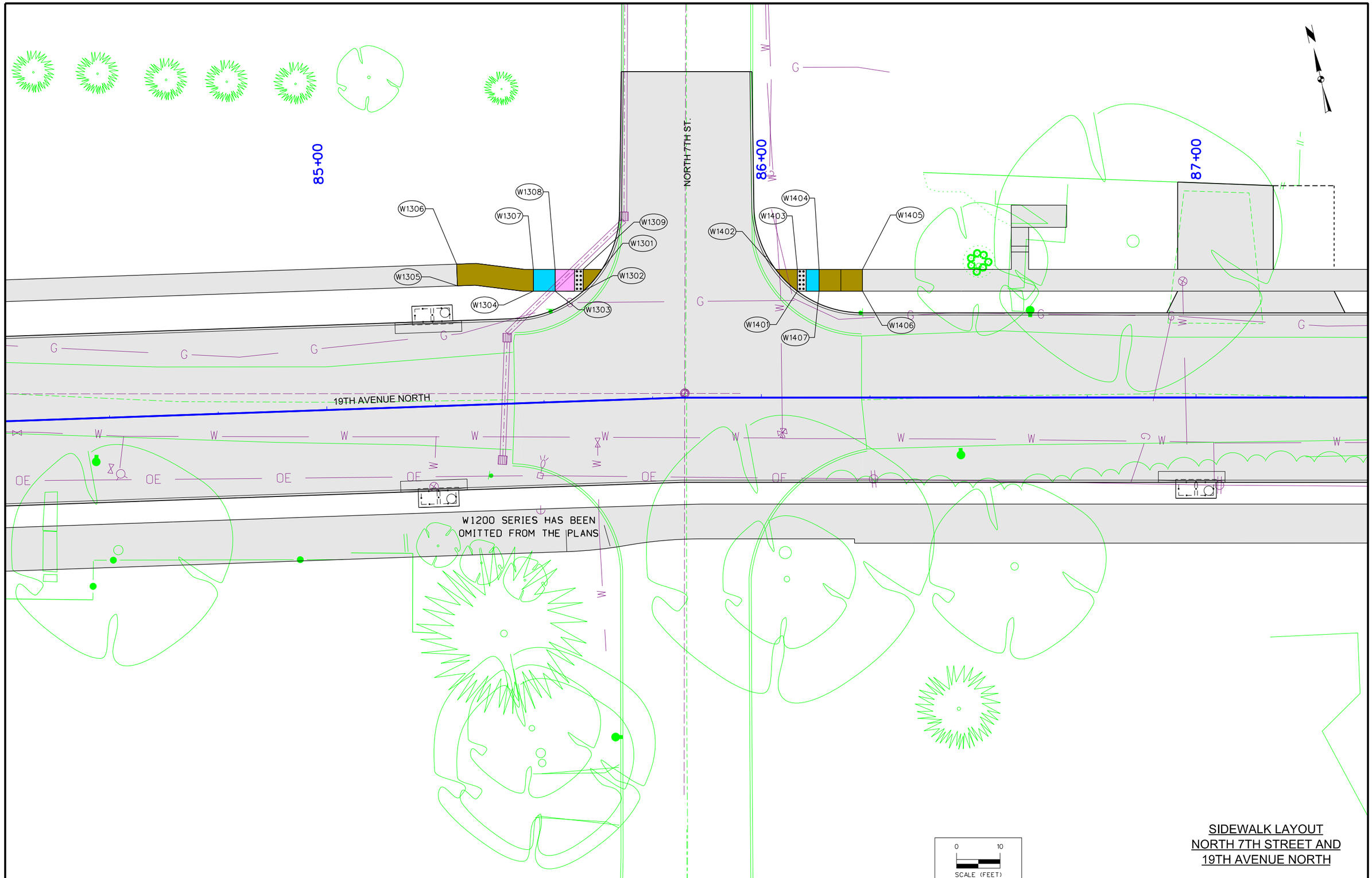
Proposed Right-of-Way
Existing and Proposed Right-of-Way
Easement and Existing Right-of-Way
Borrow
Easement (Temporary)
Easement
Property Line
A/C Access Control

SIDEWALK
LEGEND AND SYMBOL
INFORMATION SHEET
(COVERS SHEET SERIES S)



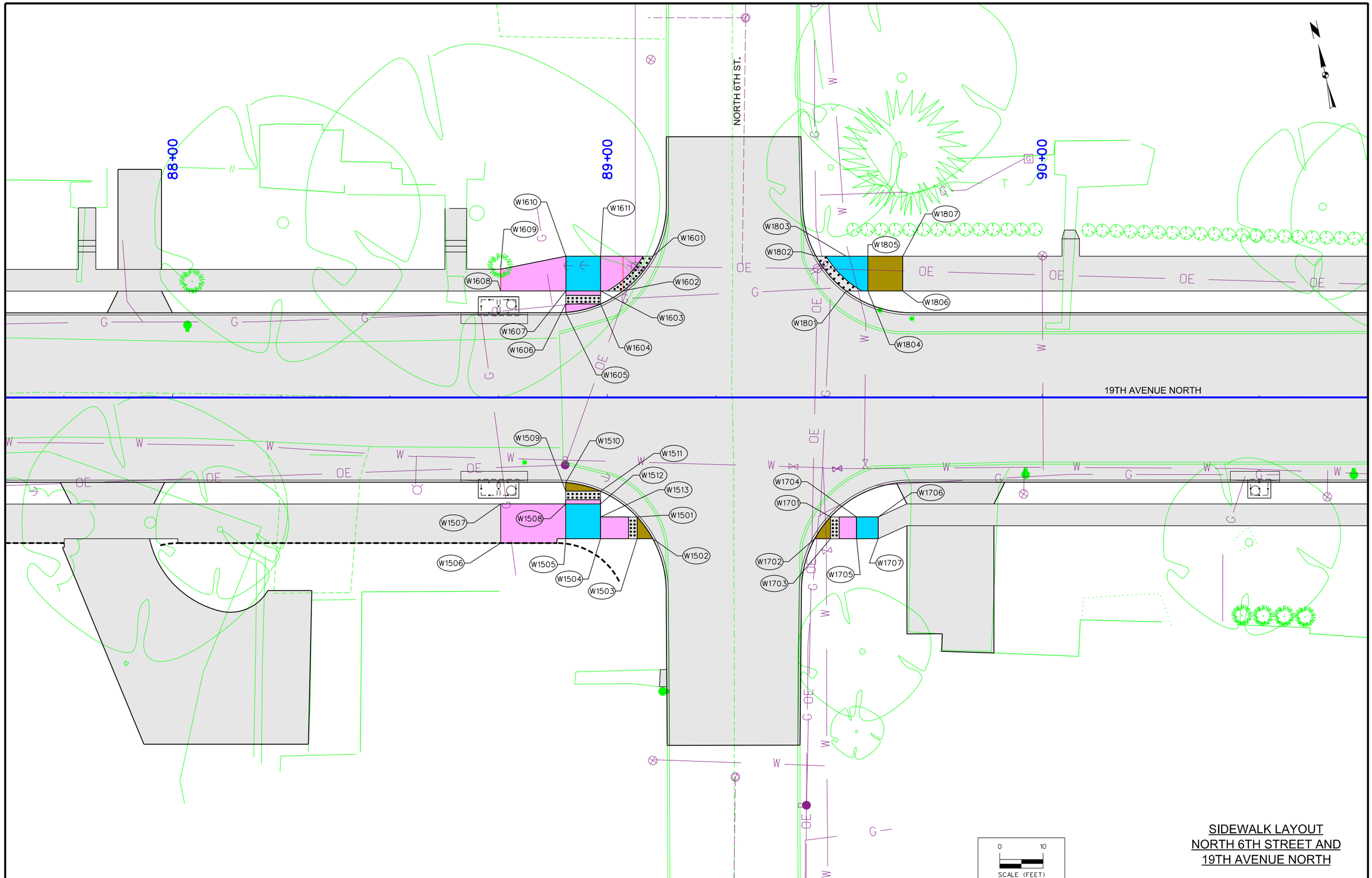
SIDEWALK LAYOUT
NORTH 8TH STREET AND
19TH AVENUE NORTH

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	S.7



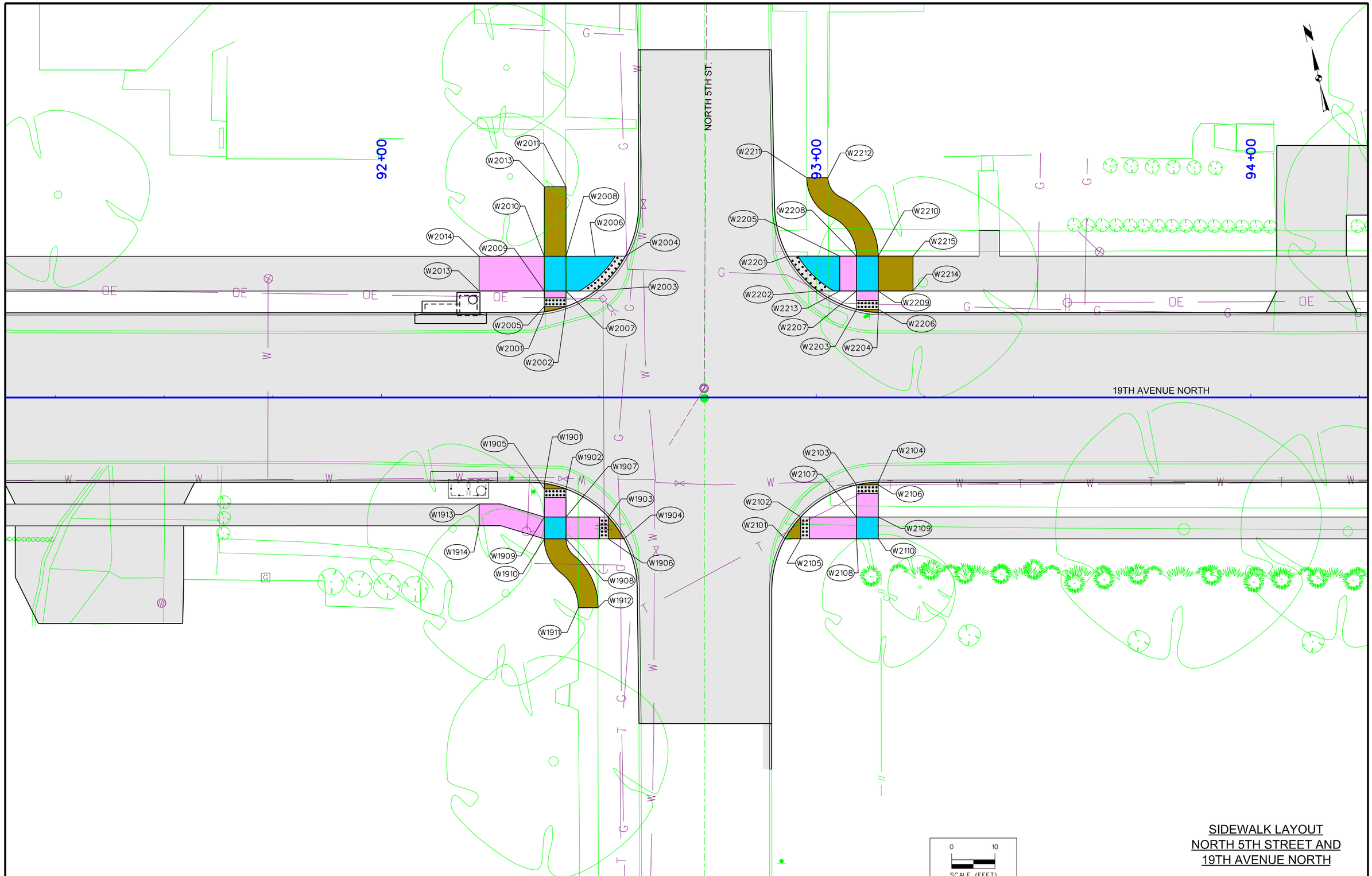
SIDEWALK LAYOUT
NORTH 7TH STREET AND
19TH AVENUE NORTH

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	S.8



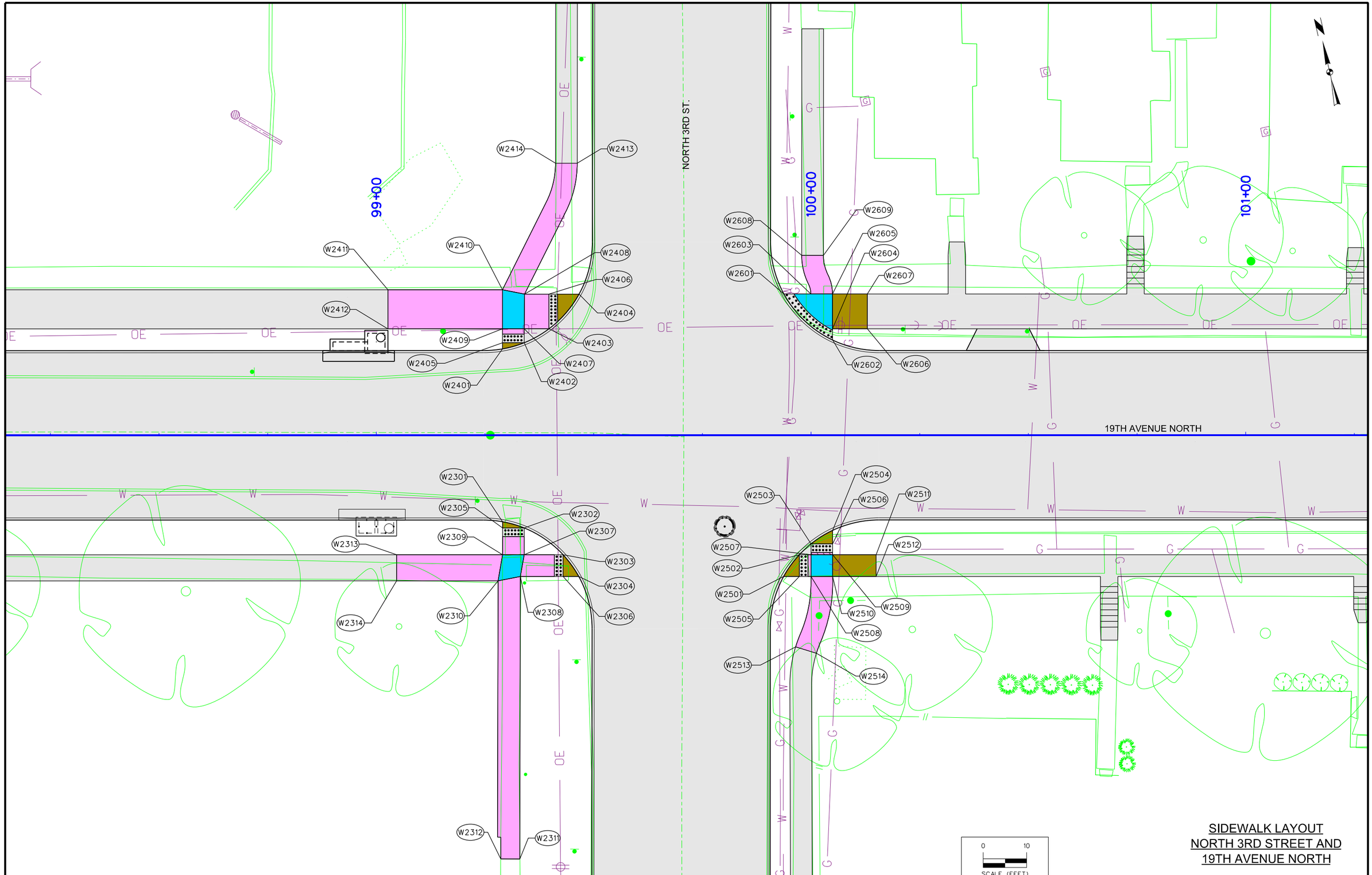
SIDEWALK LAYOUT
NORTH 6TH STREET AND
19TH AVENUE NORTH

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	S.9



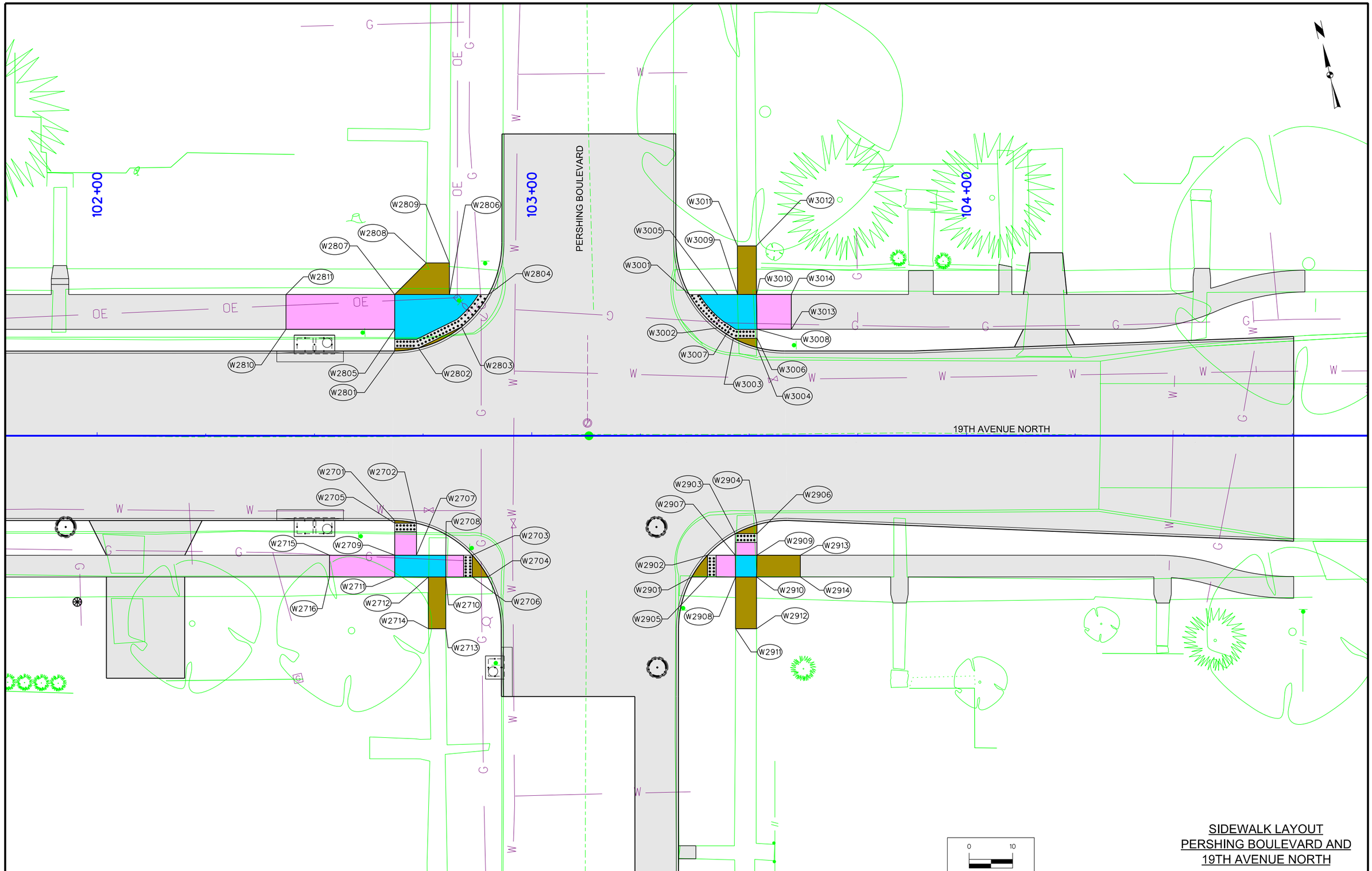
SIDEWALK LAYOUT
NORTH 5TH STREET AND
19TH AVENUE NORTH

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	S.10



SIDEWALK LAYOUT
NORTH 3RD STREET AND
19TH AVENUE NORTH

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	S.11



SIDEWALK LAYOUT
PERSHING BOULEVARD AND
19TH AVENUE NORTH

ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	S.12

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

① 30% SHRINKAGE

SIDE BOTH

107-20 MODIFIED

STATION	CUT	EXIST PVMT -C	EXIST TOPSOIL -C	ADJ. CUT	MOD SUBBASE ADJ -C	MOD SUBBASE ADJ+ADJ CUT	FILL	EXIST PVMT +F	EXIST TOPSOIL +F	OVER DIG +F	MOD SUBBASE ADJ +F	ADJ. FILL	FILL+ ① SHRINK	MOD SUBBASE ADJ+FILL+ SHRINK	BALANCE	M.D. ORDINATE
69+07.14																884
69+25.00	975	0	67	908	16.5	892	0	0	0	6	0	6	8	8		2,211
69+50.00	1,458	0	97	1,361	23.1	1,338	0	0	0	8	0	8	10	10		3,682
69+75.00	1,604	0	100	1,504	23.1	1,481	0	0	0	8	0	8	10	10		5,260
70+00.00	1,714	0	103	1,611	23.1	1,588	0	0	0	8	0	8	10	10		6,912
70+25.00	1,791	0	106	1,685	23.1	1,662	0	0	0	8	0	8	10	10		8,599
70+50.00	1,827	0	107	1,720	23.1	1,697	0	0	0	8	0	8	10	10		10,270
70+75.00	1,812	0	108	1,704	23.1	1,681	0	0	0	8	0	8	10	10		11,878
71+00.00	1,748	0	107	1,641	23.1	1,618	0	0	0	8	0	8	10	10		13,386
71+25.00	1,645	0	104	1,541	23.1	1,518	0	0	0	8	0	8	10	10		14,783
71+50.00	1,530	0	100	1,430	23.1	1,407	0	0	0	8	0	8	10	10		16,075
71+75.00	1,420	0	95	1,325	23.1	1,302	0	0	0	8	0	8	10	10		17,257
72+00.00	1,307	0	91	1,216	23.1	1,193	0	0	0	8	0	8	10	10		18,303
72+25.00	1,168	0	89	1,079	23.1	1,056	0	0	0	8	0	8	10	10		19,177
72+50.00	994	0	87	907	23.1	884	0	0	0	8	0	8	10	10		19,859
72+75.00	798	0	83	715	23.1	692	0	0	0	8	0	8	10	10		20,358
73+00.00	609	0	77	532	23.1	509	0	0	0	8	0	8	10	10		20,665
73+25.00	435	0	69	366	23.1	343	12	0	8	8	0	28	36	36		20,750
73+50.00	267	0	55	212	20.3	192	48	0	23	8	3.8	79	103	106.8		20,621
73+75.00	134	0	41	93	12.5	81	108	0	35	8	13.8	151	196	209.8		20,307
74+00.00	49	0	23	26	5	21	181	0	50	8	23.6	239	311	334.6	CUT=22,950	19,841
74+25.00	12	0	10	2	1.2	1	266	0	63	8	28.6	337	438	466.6	F+30%=24,053	19,289
74+50.00	16	0	11	5	0	5	330	0	67	8	30.1	405	527	557.1	-1,102	18,682
74+75.00	16	0	11	5	1.2	4	370	0	70	8	28.6	448	582	610.6		17,954
75+00.00	11	0	9	2	2.3	0	455	0	76	8	27.1	539	701	728.1		17,105
75+25.00	23	0	16	7	2.3	5	550	0	77	8	27.1	635	826	853.1		16,232
75+50.00	60	0	29	31	4.1	27	593	0	73	8	24.8	674	876	900.8		15,364
75+75.00	119	0	40	79	5.8	73	627	0	71	8	22.6	706	918	940.6		14,530
76+00.00	188	0	45	143	5.8	137	650	0	72	8	22.6	730	949	971.6		13,776
76+25.00	268	0	51	217	6.8	210	645	0	72	8	21.2	725	943	964.2		13,104
76+50.00	325	0	54	271	7.9	263	627	0	69	8	19.9	704	915	934.9		12,443
76+75.00	320	0	52	268	7.9	260	614	0	71	8	19.9	693	901	920.9		11,745
77+00.00	284	0	50	234	7.9	226	608	0	79	8	19.9	695	904	923.9		10,993
77+25.00	222	0	46	176	7.9	168	602	0	83	8	19.9	693	901	920.9		10,013
77+50.00	112	0	34	78	6.8	71	693	0	91	8	21.2	792	1030	1051.2		8,633
77+75.00	31	0	17	14	4.1	10	939	0	103	8	24.8	1,050	1365	1389.8		6,812
78+00.00	14	0	8	6	1.2	5	1,265	0	109	8	28.6	1,382	1797	1825.6		4,556
78+25.00	8	0	6	2	0	2	1,595	0	111	8	30.1	1,714	2228	2258.1		2,120
78+50.00	22	0	10	12	0	12	1,746	0	106	8	30.1	1,860	2418	2448.1		147
78+75.00	47	0	18	29	1.2	28	1,419	0	90	8	28.6	1,517	1972	2000.6		-888
79+00.00	125	0	32	93	6.9	86	774	0	64	8	21.1	846	1100	1121.1		-1,102
79+25.00	277	0	54	223	17.4	206	273	0	36	8	7.5	317	412	419.5		268
79+50.00	452	0	69	383	25.5	358	50	0	11	8	0	69	90	90		741
79+75.00	584	0	75	509	27.5	482	0	0	0	6	0	6	8	8		1,284
80+00.00	657	0	82	575	27	548	0	0	0	4	0	4	5	5		1,746
80+19.30	581	0	73	508	20.5	488	6	0	10	4	0	20	26	26		1,894
80+25.00	191	0	24	167	6	161	3	0	6	1	0	10	13	13		2,688
80+50.00	957	14	91	852	26.1	826	5	2	12	5	0	24	31	31		3,136
80+62.35	512	16	32	464	12.7	451	0	1	0	2	0	3	4	4		3,584
80+75.00	509	12	32	465	12.9	452	0	1	0	2	0	3	4	4		4,544
81+00.00	1,072	9	73	990	25.1	965	0	0	0	4	0	4	5	5		5,595
81+25.00	1,162	7	74	1,081	24.6	1,056	0	0	0	4	0	4	5	5		6,662
81+50.00	1,176	9	71	1,096	24.1	1,072	0	0	0	4	0	4	5	5		7,704
81+75.00	1,152	8	73	1,071	23.6	1,047	0	0	0	4	0	4	5	5		8,684
82+00.00	1,091	5	78	1,008	23.1	985	0	0	0	4	0	4	5	5		9,566
82+25.00	990	5	74	911	22.6	888	0	0	0	5	0	5	7	7		9,959
82+36.70	439	2	30	407	10.4	397	0	0	0	2	0	2	3	3		10,406
82+50.00	491	2	30	459	11.7	447	0	0	0	1	0	1	1	1		11,103
82+75.00	785	4	58	723	21.6	701	0	0	0	3	0	3	4	4		11,648
83+00.00	635	5	59	571	21.2	550	0	0	0	4	0	4	5	5		12,137
83+25.00	576	5	56	515	20.7	494	0	0	0	4	0	4	5	5		12,558
83+50.00	521	5	62	454	20.8	433	1	0	4	4	0	9	12	12		12,866
83+75.00	438	5	61	372	20.8	351	9	0	20	5	0	34	44	44		12,892
83+77.95	46	1	7	38	2.5	36	2	0	4	1	0	7	9	9		13,107
84+00.00	341	6	51	284	18.4	266	11	0	24	4	0	39	51	51		13,366
84+25.00	384	7	50	327	20.8	306	14	0	18	4	0	36	47	47		13,650
84+50.00	417	5	45	367	20.8	346	28	0	16	4	0	48	62	62		13,965
84+75.00	467	5	47	415	20.8	394	38	0	19	4	0	61	79	79		14,336
85+00.00	516	5	49	462	20.8	441	32	0	18	4	0	54	70	70		14,793
85+25.00	580	6	53	521	20.8	500	22	0	8	4	0	34	44	44		15,267
85+50.00	593	13	60	520	20.8	499	10	0	4	5	0	19	25	25		15,624
85+75.00	545	56	33	456	20.8	435	36	16	4	4	0	60	78	78		15,712
85+82.56	164	28	0	136	6.3	130	21	10	0	1	0	32	42	42		15,926

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

① 30% SHRINKAGE

SIDE BOTH

107-20 MODIFIED

STATION	CUT	EXIST PVMT -C	EXIST TOPSOIL -C	ADJ. CUT	MOD SUBBASE ADJ -C	MOD SUBBASE ADJ+ADJ CUT	FILL	EXIST PVMT +F	EXIST TOPSOIL +F	OVER DIG +F	MOD SUBBASE ADJ +F	ADJ. FILL	FILL+ ① SHRINK	MOD SUBBASE ADJ+FILL+ SHRINK	BALANCE	M.D. ORDINATE
86+00.00	430	23	30	377	20.8	356	24	0	22	5	0	51	66	66		16,216
86+25.00	340	8	24	308	20.8	287	1	0	8	4	0	13	17	17		16,487
86+50.00	121	4	7	110	7.5	103	0	1	1	2	0	4	5	5		16,584
86+59.03	215	6	13	196	13.3	183	1	1	1	3	0	6	8	8		16,759
86+75.00	349	8	29	312	20.8	291	0	0	3	4	0	7	9	9		17,041
87+00.00	73	2	6	65	4.2	61	0	0	0	1	0	1	1	1		17,101
87+05.00	282	6	25	251	16.7	234	0	0	4	3	0	7	9	9		17,326
87+25.00	339	7	29	303	20.8	282	0	0	4	4	0	8	10	10		17,598
87+50.00	321	7	28	286	20.8	265	0	0	1	4	0	5	7	7		17,857
87+75.00	59	1	5	53	3.3	50	0	0	1	1	0	2	3	3		17,903
87+79.00	147	2	14	131	6	125	0	0	1	1	0	2	3	3		18,025
87+86.18	347	4	32	311	11.5	300	0	0	2	3	0	5	7	7		18,318
88+00.00	486	7	57	422	20.8	401	1	0	6	4	0	11	14	14		18,705
88+25.00	267	7	42	218	20.8	197	3	0	8	4	0	15	20	20		18,882
88+50.00	134	5	16	113	12.6	100	4	2	3	3	0	12	16	16		18,967
88+65.12	83	3	11	69	8.2	61	2	1	1	2	0	6	8	8		19,019
88+75.00	195	15	28	152	20.8	131	0	0	5	5	0	10	13	13		19,138
89+00.00	225	54	12	159	20.8	138	0	0	4	3	0	7	9	9		19,267
89+25.00	39	12	0	27	3	24	0	0	0	0	0	0	0	0		19,291
89+28.61	183	50	5	128	17.8	110	0	0	2	0	0	2	3	3		19,398
89+50.00	163	32	12	119	20.8	98	0	1	4	2	0	7	9	9		19,487
89+75.00	51	10	3	38	6	32	0	1	1	1	0	3	4	4		19,515
89+82.15	136	20	15	101	14.9	86	0	1	1	3	0	5	7	7		19,594
90+00.00	53	6	7	40	5.5	35	0	0	0	1	0	1	1	1		19,628
90+06.65	146	15	20	111	15.3	96	0	0	0	3	0	3	4	4		19,719
90+25.00	193	19	31	143	20.8	122	0	0	0	4	0	4	5	5		19,837
90+50.00	174	19	29	126	20.8	105	0	0	0	4	0	4	5	5		19,937
90+75.00	101	17	12	72	13.3	59	0	1	0	3	0	4	5	5		19,991
90+91.00	55	14	2	39	7.5	32	0	1	0	2	0	3	4	4		20,018
91+00.00	145	31	4	110	20.8	89	0	6	2	5	0	13	17	17		20,090
91+25.00	119	24	7	88	20.8	67	3	7	7	4	0	21	27	27		20,130
91+50.00	87	24	11	52	20.8	31	5	4	10	4	0	23	30	30		20,132
91+75.00	71	19	17	35	10.4	25	7	0	11	4	0	22	29	29		20,127
92+00.00	57	19	17	21	0	21	12	0	13	4	13.5	29	38	51.5		20,097
92+25.00	44	21	12	11	0	11	17	3	20	4	27.1	44	57	84.1	CUT=29,609	20,024
92+50.00	78	52	3	23	0	23	9	8	11	2	26.4	30	39	65.4	F+30%=3,178	19,981
92+74.39	3	2	0	1	0	1	0	0	0	0	0.7	0	0	0.7	26,431	19,982
92+75.00	85	57	1	27	0	27	4	7	3	2	27.1	16	21	48.1		19,960
93+00.00	58	25	8	25	0	25	4	2	6	4	13.5	16	21	34.5		19,951
93+25.00	44	12	9	23	6	17	0	0	3	2	0	5	7	7		19,961
93+39.40	37	9	8	20	8.8	11	0	0	1	2	0	3	4	4		19,968
93+50.00	104	21	21	62	20.8	41	0	0	1	4	0	5	7	7		20,002
93+75.00	128	22	23	83	20.8	62	0	0	0	4	0	4	5	5		20,060
94+00.00	84	17	10	57	11.8	45	0	1	0	3	0	4	5	5		20,100
94+14.15	68	13	8	47	9	38	0	1	0	2	0	3	4	4		20,134
94+25.00	179	22	29	128	20.8	107	0	0	2	4	0	6	8	8		20,233
94+50.00	217	22	38	157	20.8	136	0	1	1	5	0	7	9	9		20,360
94+75.00	24	2	4	18	2.1	16	0	0	0	1	0	1	1	1		20,375
94+77.53	231	25	32	174	18.7	155	0	1	0	3	0	4	5	5		20,525
95+00.00	289	33	30	226	20.8	205	0	0	0	3	0	3	4	4		20,727
95+25.00	325	33	36	256	20.8	235	0	0	0	4	0	4	5	5		20,957
95+50.00	400	39	36	325	20.8	304	0	1	0	4	0	5	7	7		21,254
95+75.00	468	34	49	385	20.8	364	1	3	2	4	0	10	13	13		21,605
96+00.00	518	28	61	429	20.8	408	2	4	2	4	0	12	16	16		21,997
96+25.00	570	35	37	498	20.8	477	1	2	1	4	0	8	10	10		22,465
96+50.00	604	42	19	543	20.8	522	1	5	0	4	0	10	13	13		22,974
96+75.00	650	33	35	582	20.8	561	1	4	7	4	0	16	21	21		23,514
97+00.00	674	19	44	611	20.8	590	1	0	10	4	0	15	20	20		24,084
97+25.00	647	31	24	592	20.8	571	0	1	4	4	0	9	12	12		24,643
97+50.00	613	31	15	567	20.8	546	0	1	1	4	0	6	8	8		25,182
97+75.00	568	19	21	528	20.8	507	0	0	1	4	0	5	7	7		25,682
98+00.00	513	18	22	473	20.8	452	0	0	1	4	0	5	7	7		26,127
98+25.00	455	18	22	415	20.8	394	0	0	1	4	0	5	7	7		26,514
98+50.00	388	18	22	348	20.8	327	0	0	1	4	0	5	7	7		26,834
98+75.00	305	18	22	265	20.8	244	0	0	1	4	0	5	7	7		27,072
99+00.00	199	18	22	159	10.4	149	0	0	1	4	0	5	7	7		27,213
99+25.00	76	10	10	56	0	56	123	0	0	2	0	125	163	163		27,106
99+50.00	46	20	0	26	0	26	104	0	0	0	0	104	135	135		26,997
99+70.17	19	9	0	10	0	10	3	0	0	0	0	3	4	4		27,003
99+75.00	59	33	1	25	0	25	22	12	1	3	0	38	49	49		26,979
100+00.00	13	11	1	1	0	1	35	26	8	5	13.5	74	96	109.5		26,871
100+25.00	1	1	0	0	0	0	17	10	5	1	9.3	33	43	52.3		26,818
100+33.62	1	1	0	-1	0	-1	38	20	10	3	17.7	71	92	109.7		26,708

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-20
MODIFIED

① 30% SHRINKAGE

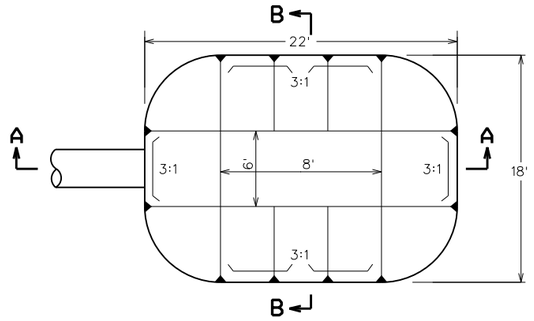
SIDE BOTH

STATION	CUT	EXIST PVMT -C	EXIST TOPSOIL -C	ADJ. CUT	MOD SUBBASE ADJ -C	MOD SUBBASE ADJ+ADJ CUT	FILL	EXIST PVMT +F	EXIST TOPSOIL +F	OVER DIG +F	MOD SUBBASE ADJ +F	ADJ. FILL	FILL+① SHRINK	MOD SUBBASE ADJ+FILL+ SHRINK	BALANCE	M.D. ORDINATE
100+50.00	1	0	1	0	0	0	47	25	11	3	20.5	86	112	**132.5**		26,575
100+68.90	0	0	0	0	0	0	15	8	3	1	6.6	27	35	**41.6**		26,534
100+75.00	5	4	1	0	0	0	53	28	17	4	27.1	102	133	**160.1**		26,373
101+00.00	15	13	1	1	0	1	40	20	15	4	27.1	79	103	**130.1**		26,244
101+25.00	2	2	0	0	0	0	2	1	1	0	2	4	5	**7**		26,237
101+26.86	30	22	0	8	0	8	22	8	12	4	25.1	46	60	**85.1**		26,160
101+50.00	24	15	0	9	0	9	11	6	5	2	7.1	24	31	**38.1**		26,131
101+63.15	28	15	0	13	0	13	8	6	3	2	0	19	25	**25**		26,119
101+75.00	44	21	0	23	6.9	16	4	3	5	3	0	15	20	**20**		26,115
101+91.50	23	10	0	13	7.1	6	1	1	3	1	0	6	8	**8**		26,113
102+00.00	20	8	0	12	6	6	1	1	3	1	0	6	8	**8**		26,111
102+07.15	55	20	1	34	14.9	19	2	2	6	3	0	13	17	**17**		26,113
102+25.00	79	28	3	48	20.8	27	0	0	10	4	0	14	18	**18**		26,122
102+50.00	74	28	2	44	20.8	23	1	0	11	5	0	17	22	**22**		26,124
102+75.00	126	54	1	71	20.8	50	1	0	6	3	0	10	13	**13**		26,161
103+00.00	111	42	0	69	11.1	58	0	0	0	0	0	0	0	**0**		26,219
103+13.27	105	37	0	68	9.8	58	0	0	0	0	0	0	0	**0**		26,277
103+25.00	150	55	0	95	20.8	74	0	1	0	3	0	4	5	**5**		26,346
103+50.00	84	27	7	50	20.8	29	0	1	2	5	0	8	10	**10**		26,365
103+75.00	32	10	4	18	8	10	0	1	1	2	0	4	5	**5**		26,370
103+84.57	16	5	2	9	4.1	5	0	0	1	1	0	2	3	**3**		26,372
103+89.51	25	7	4	14	6.4	8	0	0	2	1	0	3	4	**4**		26,376
103+97.15	9	3	2	4	2.4	2	0	0	1	0	0	1	1	**1**		26,376
104+00.00	59	18	7	34	15.1	19	0	2	3	3	0	8	10	**10**		26,385
104+18.10	23	7	3	13	5.7	7	0	1	1	1	0	3	4	**4**		26,389
104+25.00	92	25	14	53	20.8	32	0	0	4	4	0	8	10	**10**		26,411
104+50.00	92	30	12	50	20.8	29	0	0	4	4	0	8	10	**10**		26,430
104+75.00	1	0	0	1	0.2	1	0	0	0	0	0	0	0	**0**		26,431
104+75.28																
295+25.00	63	25		38			0	0		8		8	10			28
295+50.00	74	25		49			0	0		8		8	10			67
295+75.00	86	25		61			0	0		9		9	12			116
296+00.00	93	25		68			0	0		10		10	13			171
296+25.00	94	25		69			0	0		10		10	13			227
296+50.00	92	25		67			0	0		9		9	12			282
296+75.00	89	25		64			0	0		9		9	12			334
297+00.00	86	25		61			0	0		9		9	12		CUT=757	383
297+25.00	83	25		58			0	0		9		9	12		F+30%=237	429
297+50.00	80	25		55			0	0		9		9	12		520	472
297+75.00	76	25		51			0	0		8		8	10			513
298+00.00	69	25		44			0	0		7		7	9			548
298+25.00	58	25		33			0	0		7		7	9			572
298+50.00	44	25		19			0	0		6		6	8			583
298+75.00	33	22		11			9	0		4		13	17			577
299+00.00	23	16		7			29	0		1		30	39			545
299+25.00	8	6		2			21	0		0		21	27			520
299+50.00																
300+25.00	14	9		5			13	0		6		19	25			-20
300+50.00	21	15		6			7	0		7		14	18		CUT=56	-32
300+75.00	31	21		10			3	0		7		10	13		F+30%=76	-35
301+00.00	39	24		15			1	0		7		8	10		-20	-30
301+25.00	45	25		20			1	0		7		8	10			-20
301+50.00																

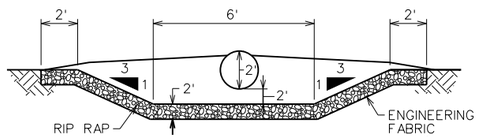
NOTES:

EXCAVATION REQUIRED TO SHAPE THE BASIN TO THE TOP OF THE RIP-RAP IS INCIDENTAL TO CLASS 'E' BID ITEM.

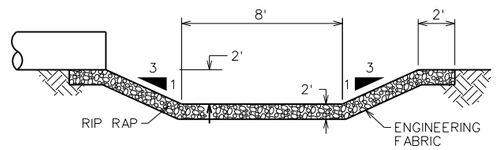
PLACE RIP RAP UP TO TOP OF OUTLET PIPE.



PLAN OF GRADED BASIN



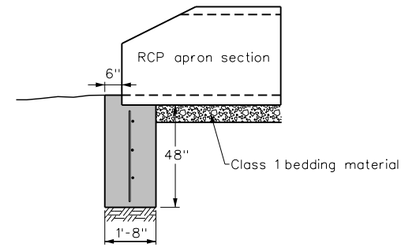
SECTION B-B



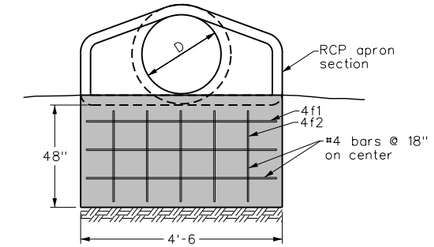
SECTION A-A

STILLING BASIN

RIP RAP ENERGY DISSAPATORS
PREFORMED SCOUR HOLE GEOMETRY



TYPICAL SECTION

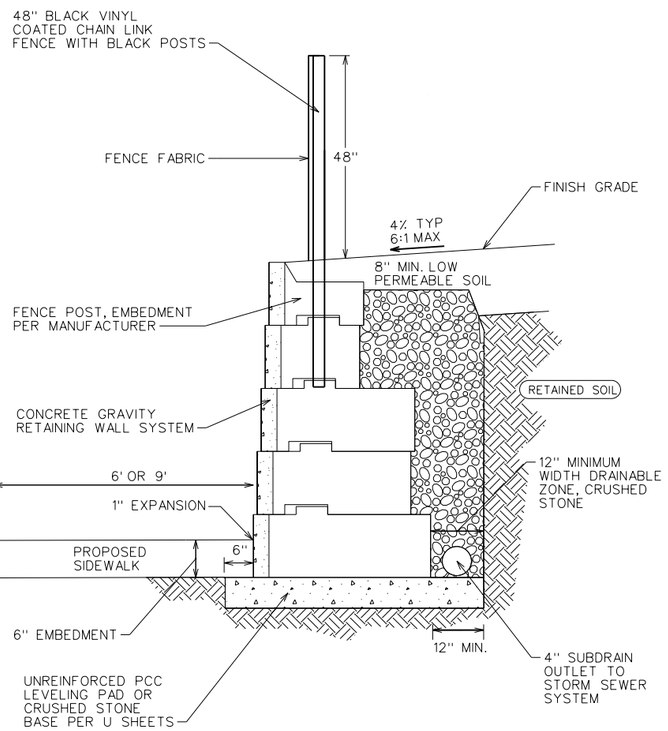


ELEVATION

REINFORCING BAR LIST

D	W	Mark	Size	Length	Count
24"	4'-6"	4f1	4	4'-2"	3
		4f2	4	3'-8"	3

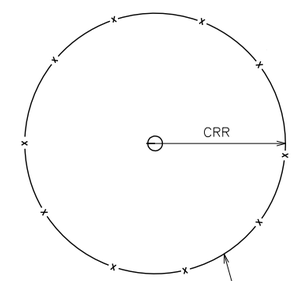
RCP APRON SECTION FOOTING (SUDAS 4030.221)

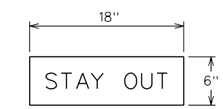


NOTES:

1. DEPTH OF BLOCK SHALL VARY DEPENDING ON HEIGHT OF WALL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. BLOCK HEIGHT IS ASSUMED AT 16" AND WIDTH IS ASSUMED AT 48". BLOCK DEPTH VARIES WITH HEIGHT, REFER TO MANUFACTURER'S RECOMMENDATIONS AND U SHEETS U.06-U.13.
3. FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL SUBMIT DESIGN PLANS STAMPED BY A PROFESSIONAL STRUCTURAL ENGINEER.
4. REFER TO U.06 - U.13 FOR ADDITIONAL INFORMATION AND RETAINING WALL PROFILE AND STATIONS.

RETAINING WALL SEGMENTAL BLOCK AND FENCING TYPICAL SECTION



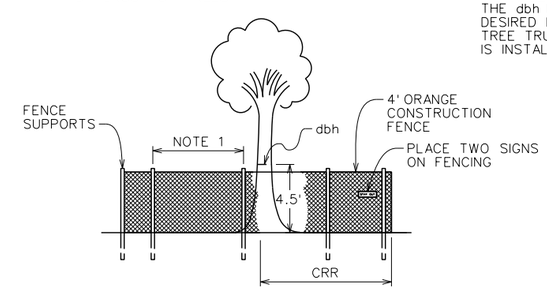


SIGN DETAIL

MIN. DIMENSIONS
METAL SIGN WITH
CONTRASTING
PAINTED LETTERS

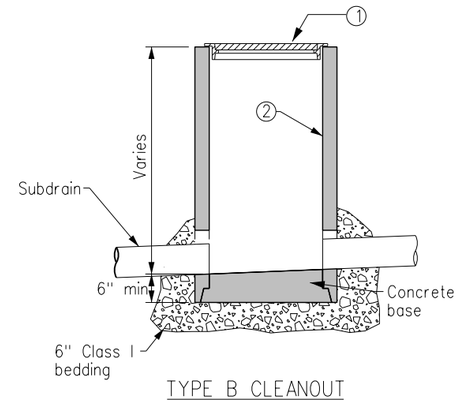
dbh = DIAMETER AT BREAST HEIGHT, THE DIAMETER OF TREE TRUNK IN INCHES AT HEIGHT OF 4.5' ABOVE NATURAL GROUND.

CRR = CRITICAL ROOT RADIUS IS THE DISTANCE IN FEET EQUAL TO THE dbh IN INCHES. THIS IS THE DESIRED DISTANCE FROM THE TREE TRUNK AT WHICH FENCING IS INSTALLED.



NOTE 1: SPACING AS REQUIRED TO PREVENT SAGGING.

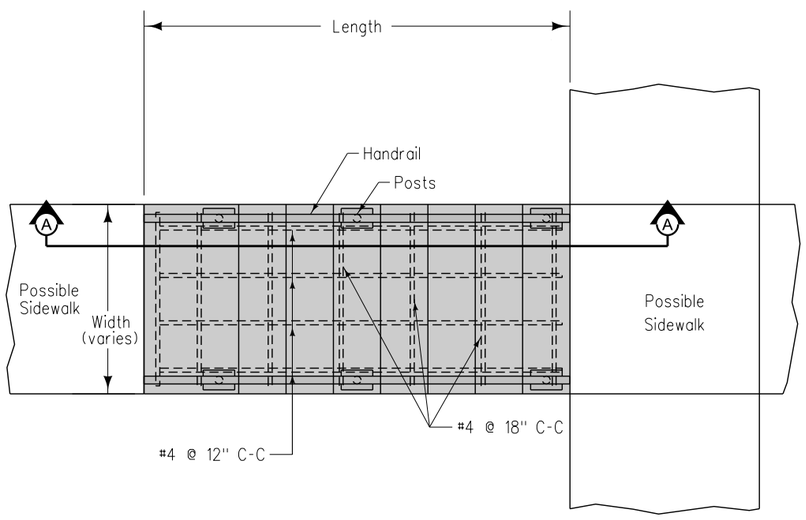
TYPICAL TREE PROTECTION FENCING-WORK ZONE AREA



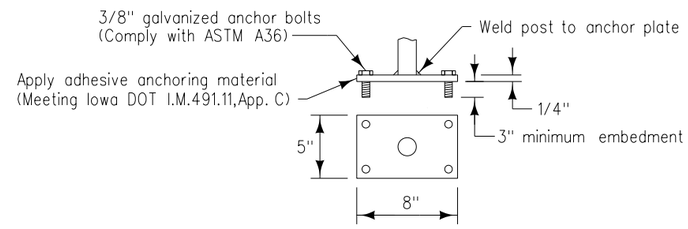
TYPE B CLEANOUT
(Non-traffic areas only)

1. 24 inch diameter RCP for subdrain 8 inches or smaller; 30 inch diameter RCP for 10 to 12 inch subdrain. A manufactured cleanout may be used in lieu of a Type B cleanout, if approved by the Engineer.
2. Provide Type G casting, as required to fit pipe size.

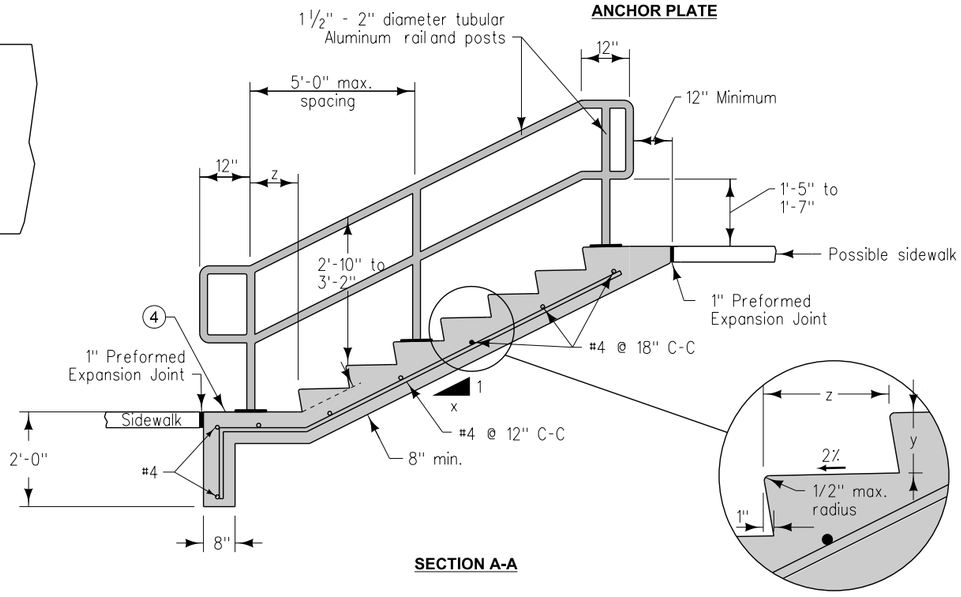
SUBDRAIN CLEANOUT



PLAN

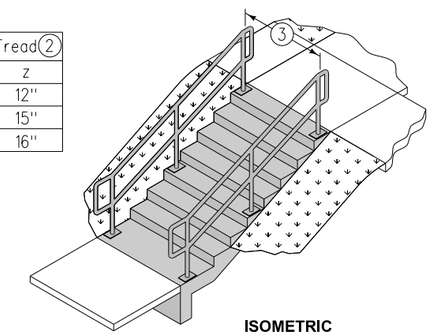


ANCHOR PLATE



SECTION A-A

	Rise (1)	Tread (2)
x	y	z
2	6"	12"
3	5"	15"
4	4"	16"



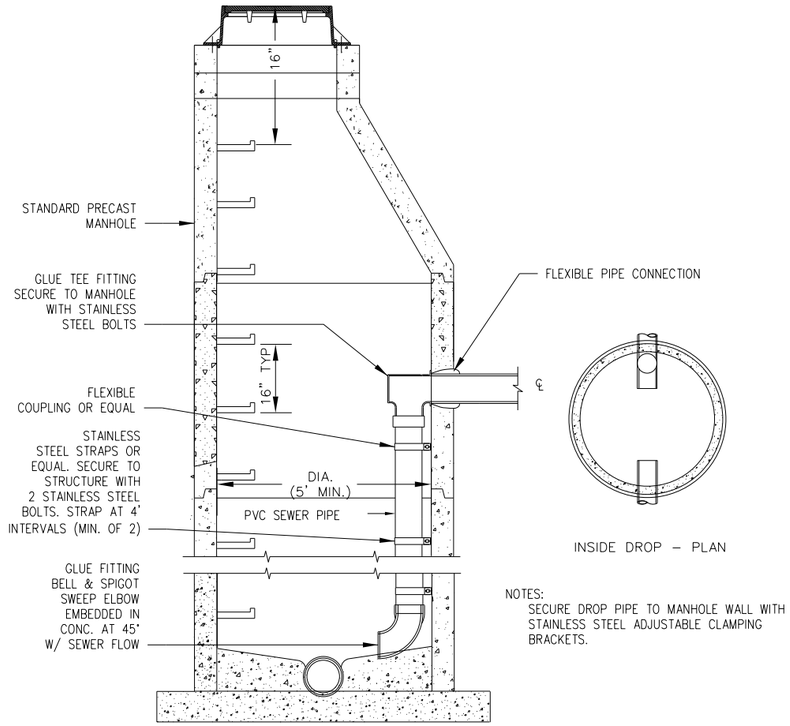
ISOMETRIC

Provide a minimum of 2 inches of cover for all reinforcing.

Ensure all risers are an equal height and all treads are an equal depth within a flight of stairs.

1. Minimum riser height is 4 inches. Maximum riser height is 7 inches.
2. Minimum tread depth is 11 inches.
3. Match existing sidewalk width.
4. Construct cross slope of landing to match adjacent sidewalk.
5. 1/4" Thick x5"x8" anchor plate.

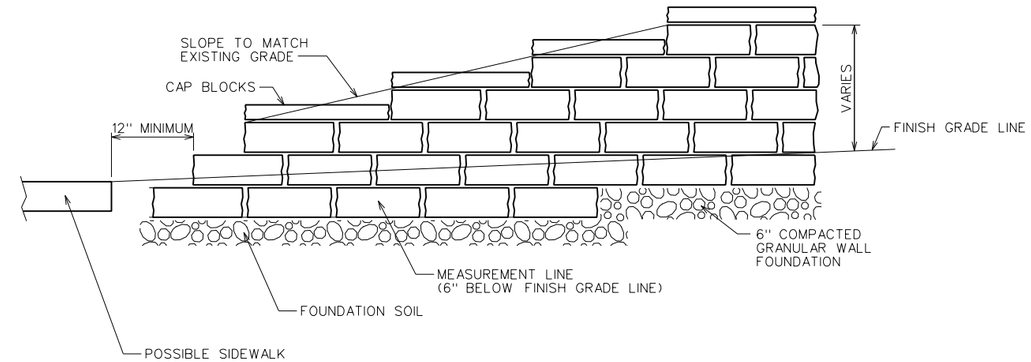
CONCRETE STEPS AND HAND RAILING



INSIDE DROP – PLAN

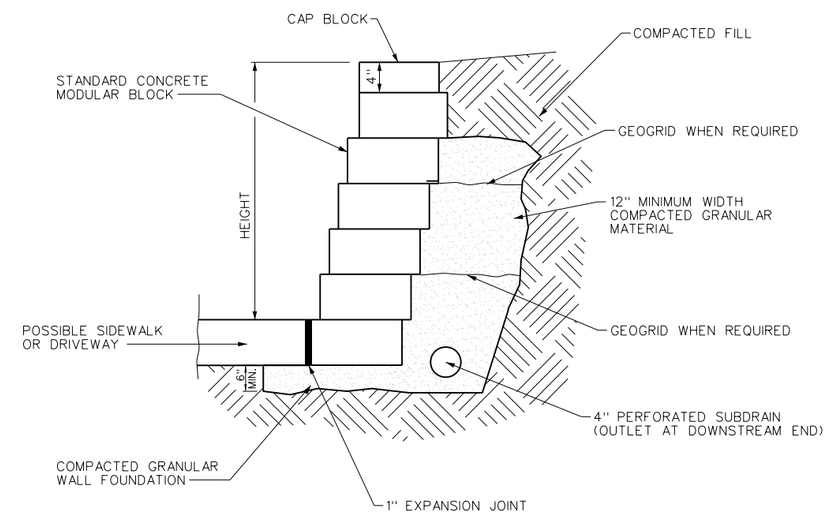
NOTES:
SECURE DROP PIPE TO MANHOLE WALL WITH STAINLESS STEEL ADJUSTABLE CLAMPING BRACKETS.

INSIDE DROP MANHOLE



NOTE:
AREA OF WALL RUN-OUT TAPER IS INCLUDED IN PLAN QUANTITY FOR RETAINING WALL BID ITEM.

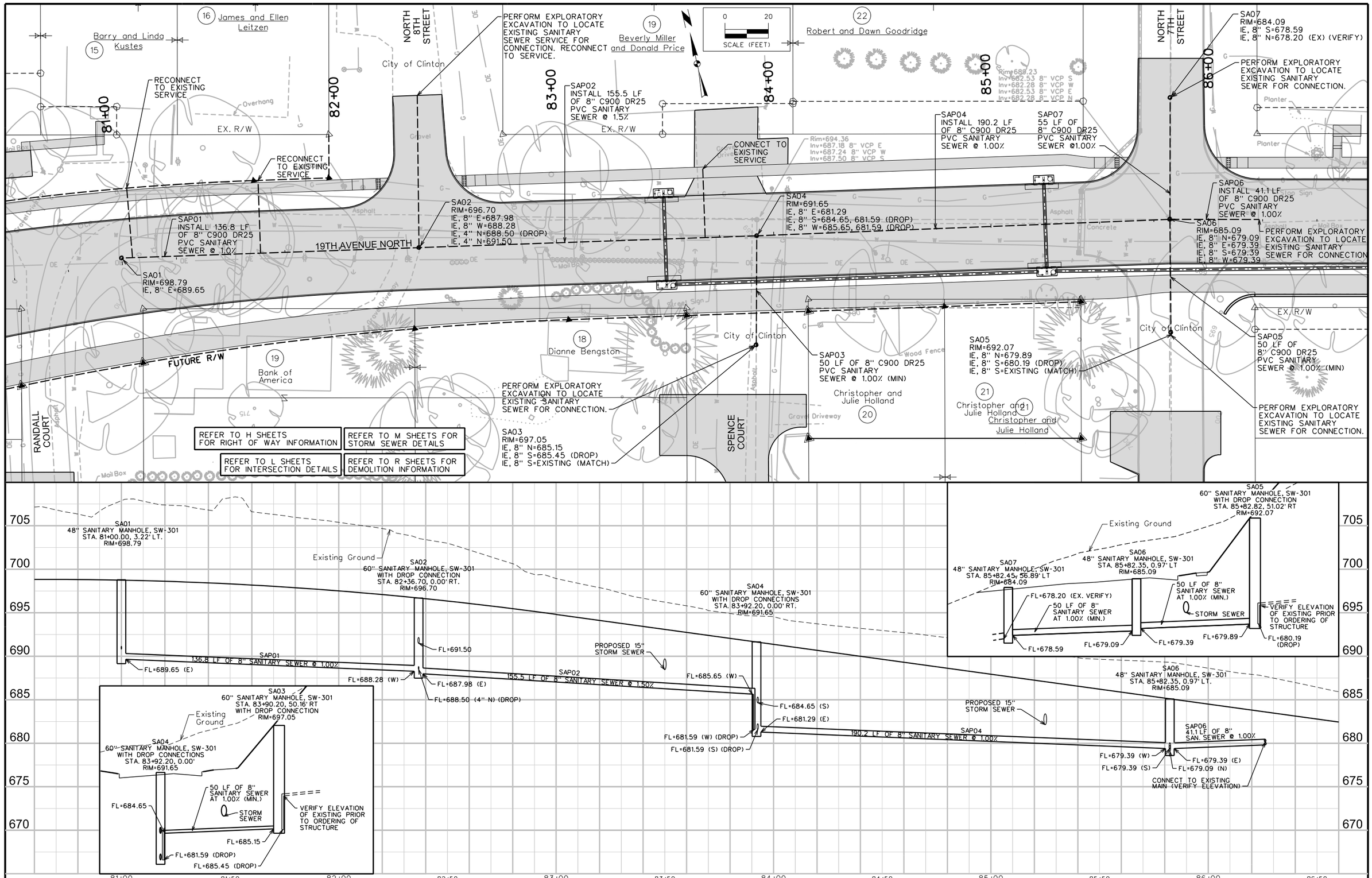
WALL RUN-OUT TAPER DETAIL



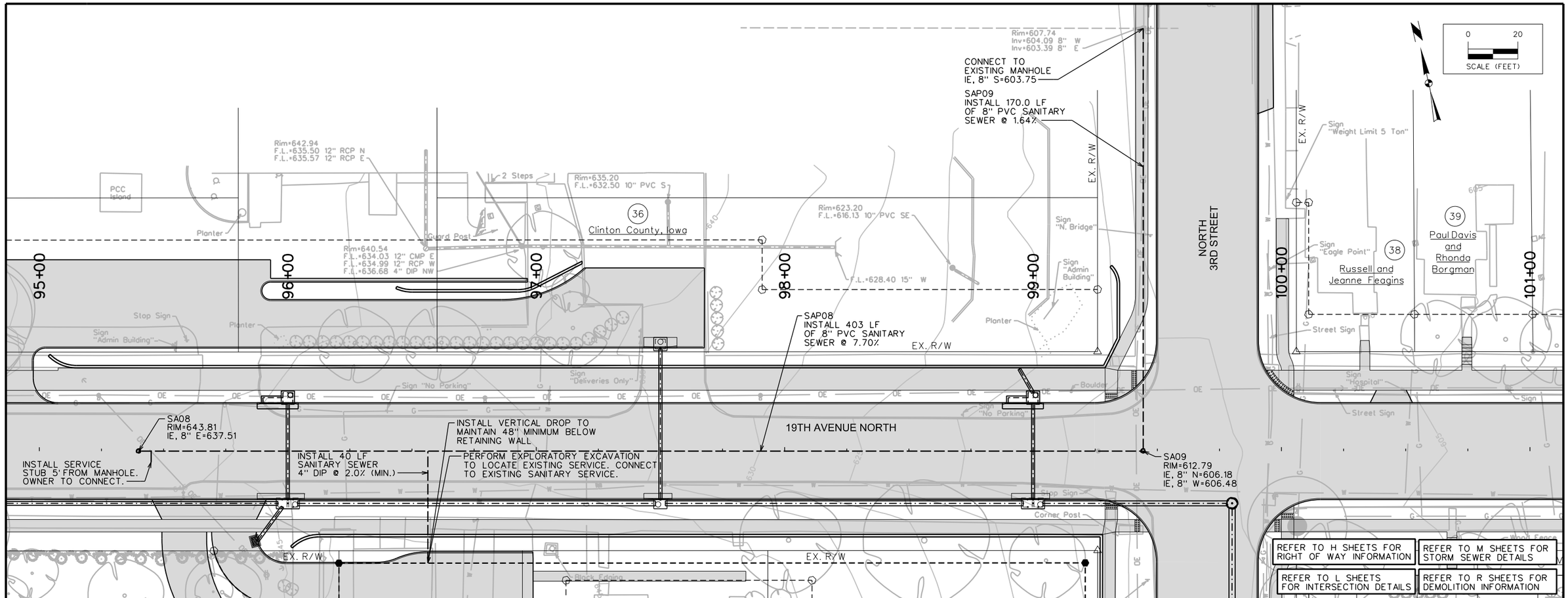
NOTES:

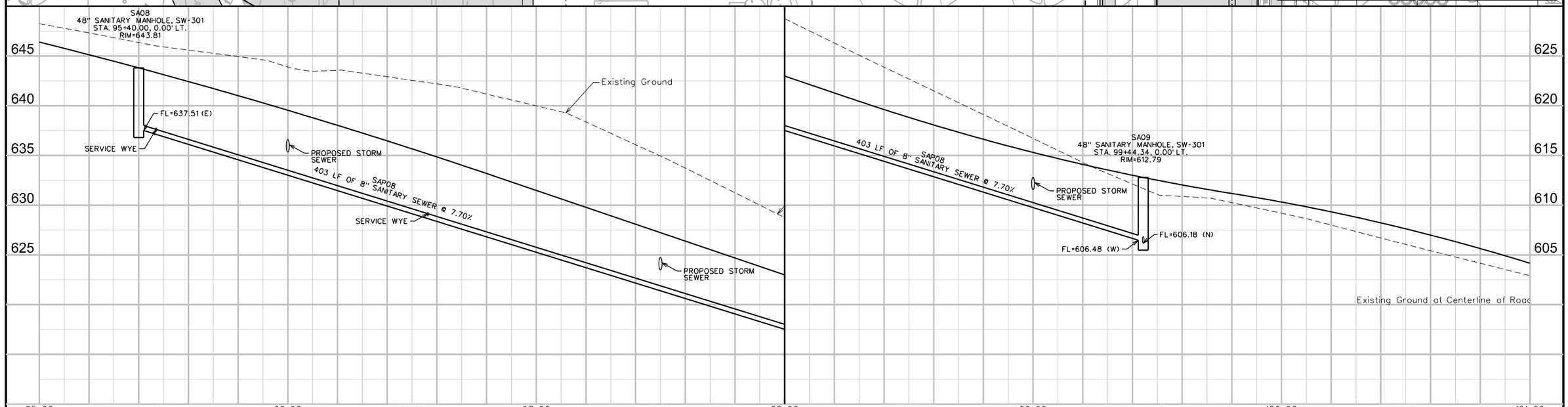
1. CONTRACTOR RESPONSIBLE FOR DESIGN OF WALL PER MANUFACTURER'S SPECIFICATIONS.
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS SHOWING GEOGRID PLACEMENT, EMBEDMENT DEPTH, ETC., IF REQUIRED.
3. CONTRACTOR TO PROVIDE COLOR SAMPLES FOR CITY APPROVAL.

MODULAR BLOCK MASONRY WALL



ENGLISH	IOWA DOT	DESIGN TEAM	SNYDER & ASSOCIATES	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	U.4





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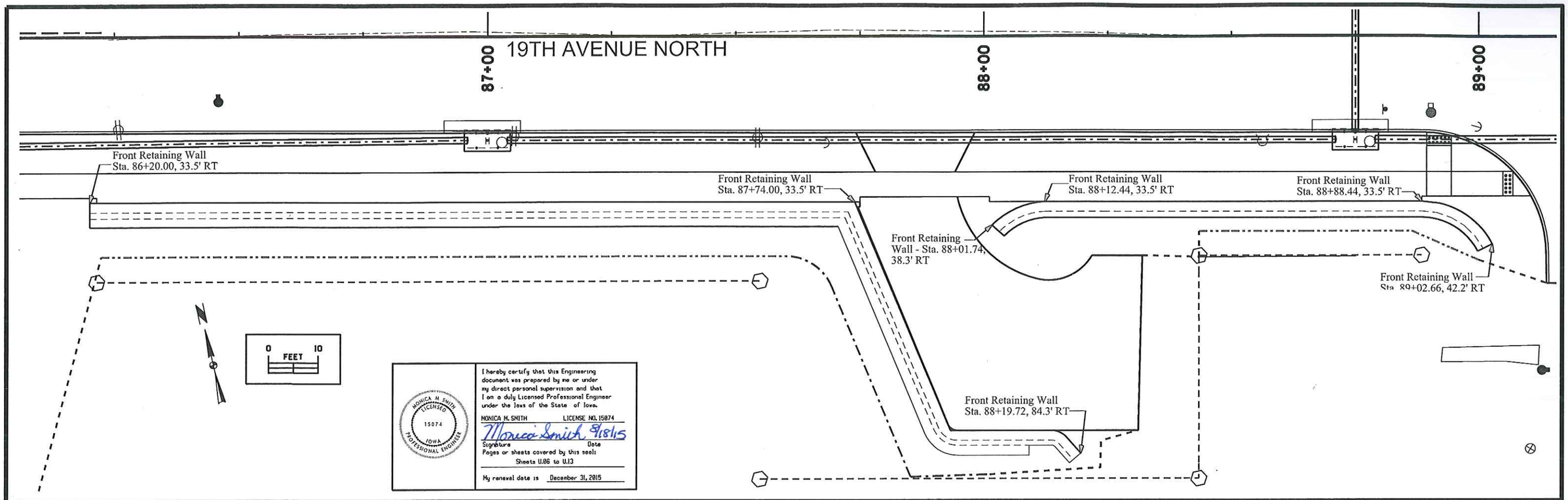


MONICA M. SMITH LICENSED 15074 IOWA PROFESSIONAL ENGINEER

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.

MONICA M. SMITH LICENSE NO. 15074

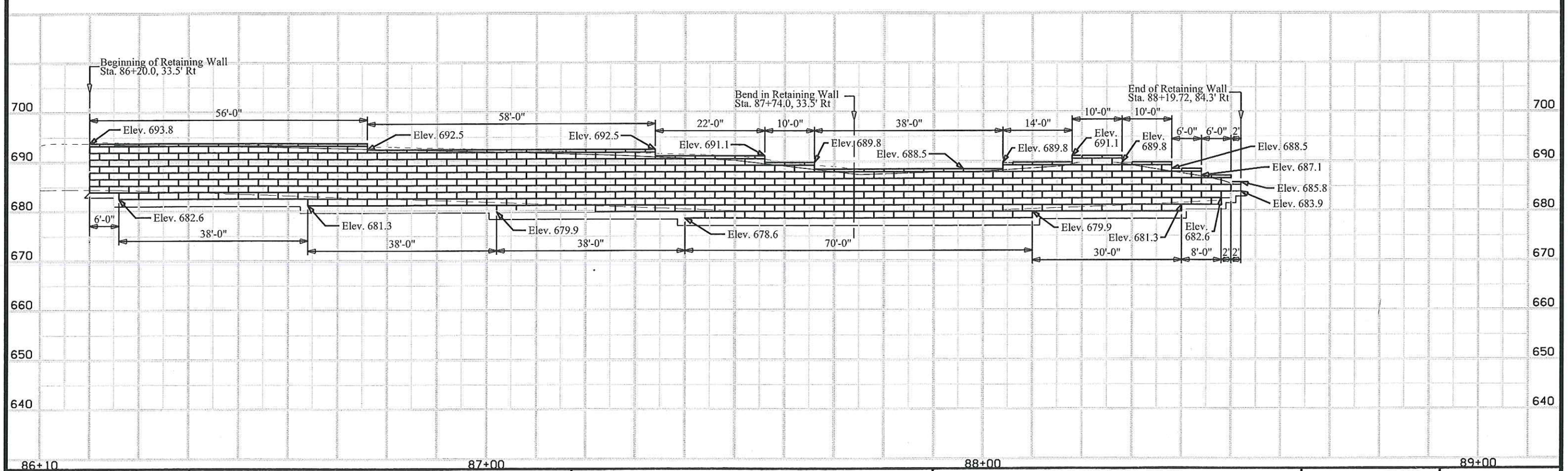
Monica Smith 8/18/15

Signature Date

Pages or sheets covered by this seal:

Sheets U.06 to U.13

My renewal date is December 31, 2015



ENGLISH	IOWA DOT	DESIGN TEAM	ROBINSON ENGINEERING CO.	CLINTON	COUNTY	PROJECT NUMBER	STP-U-1415(625)--70-23	SHEET NUMBER	U.06

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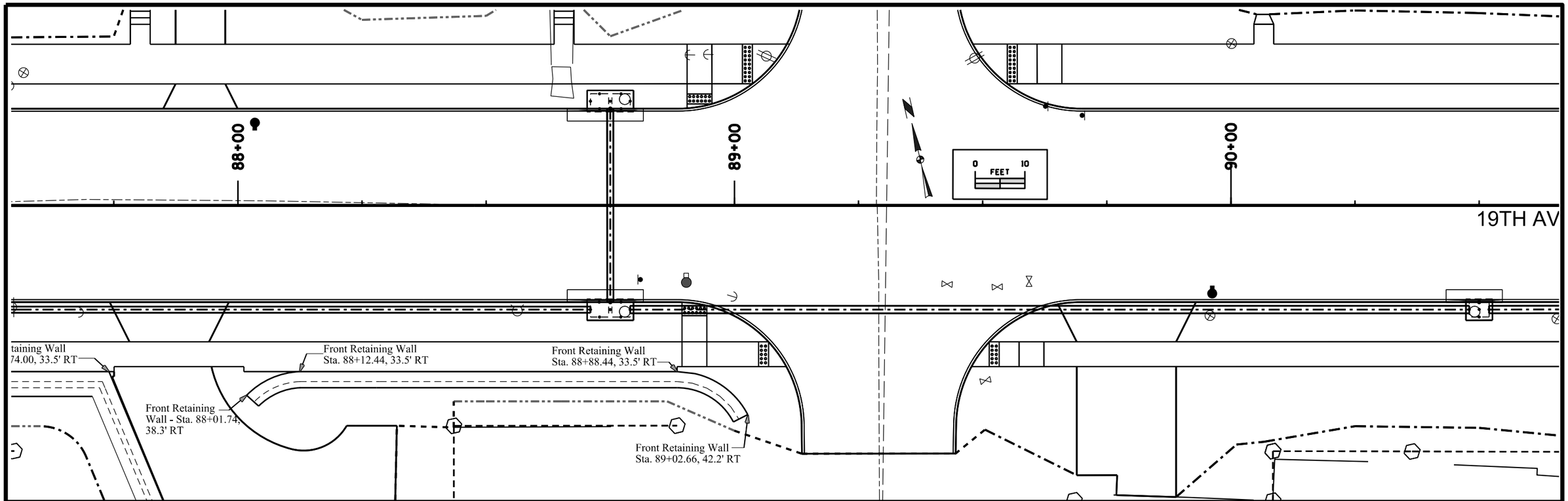

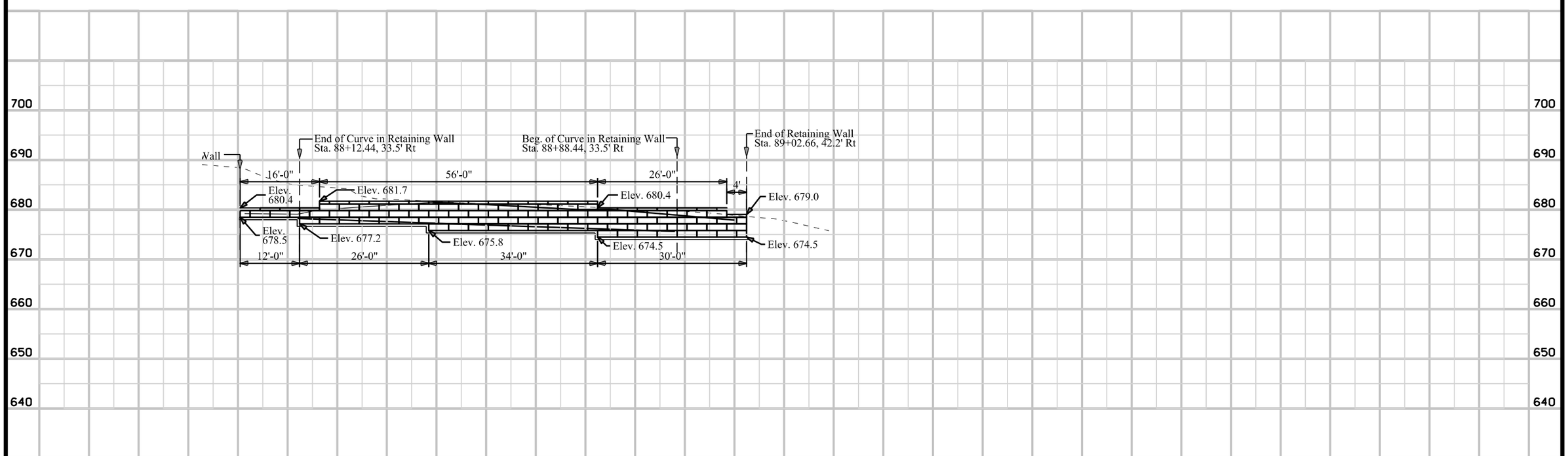

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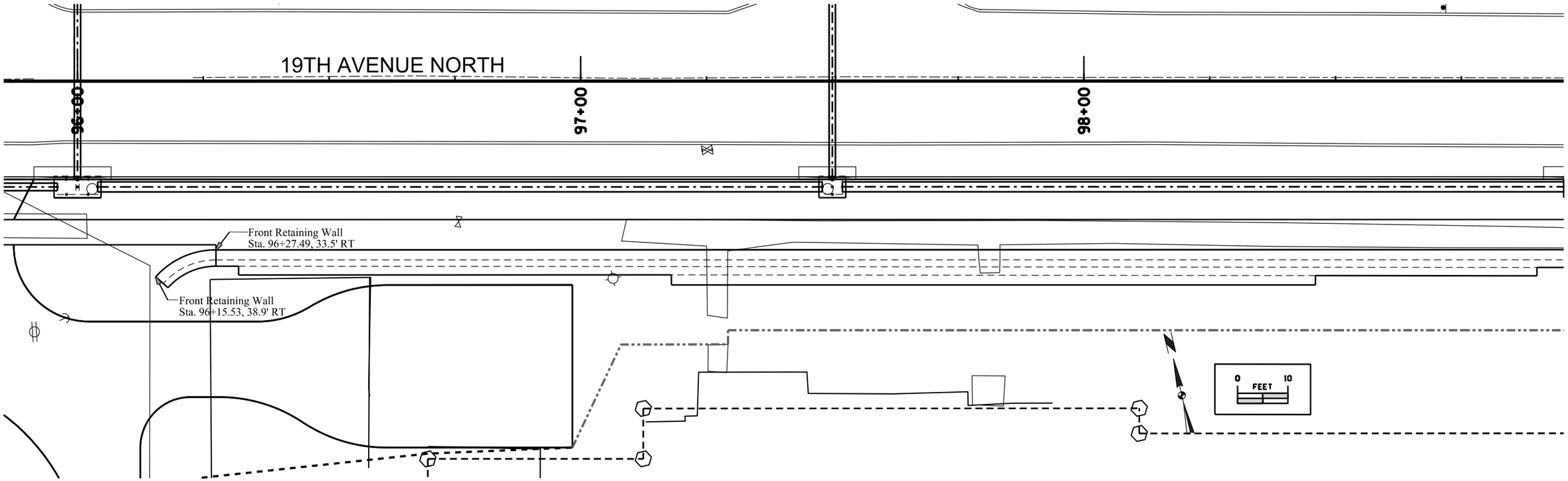

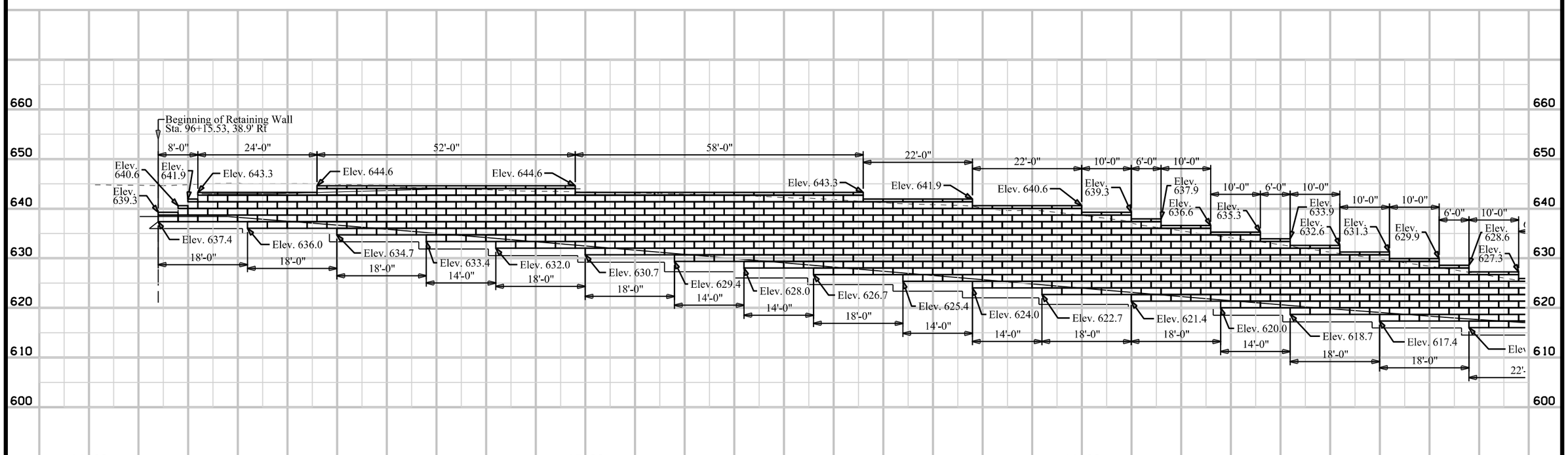

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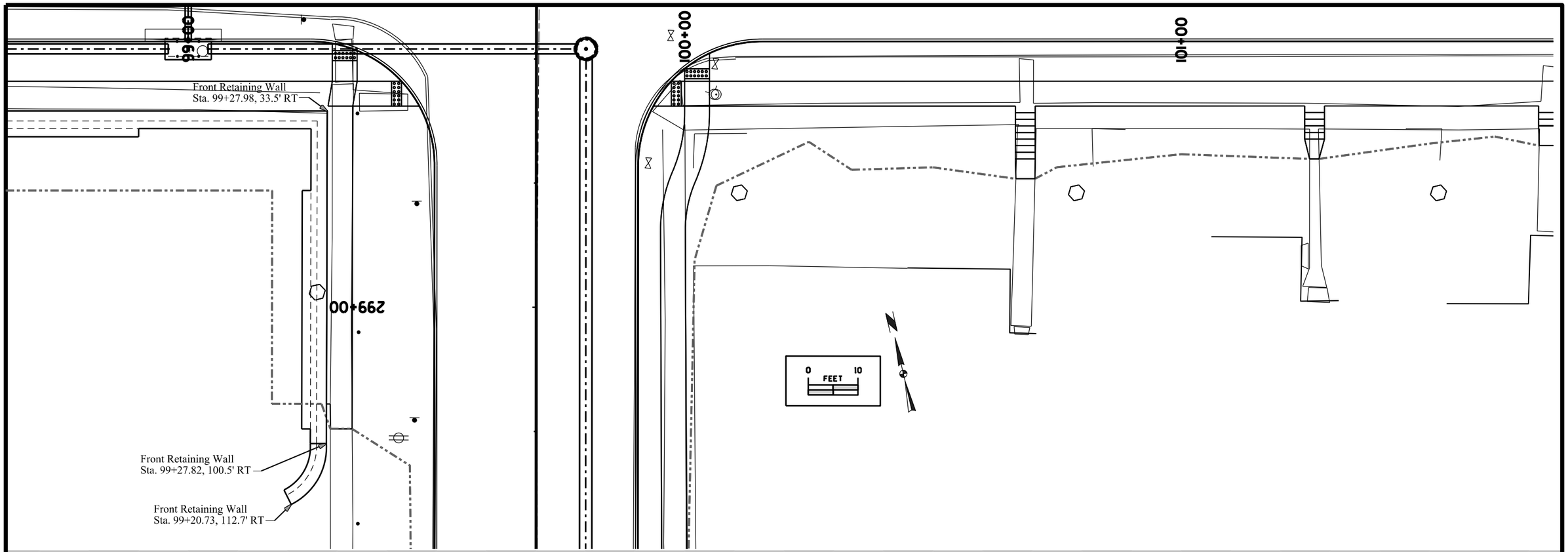

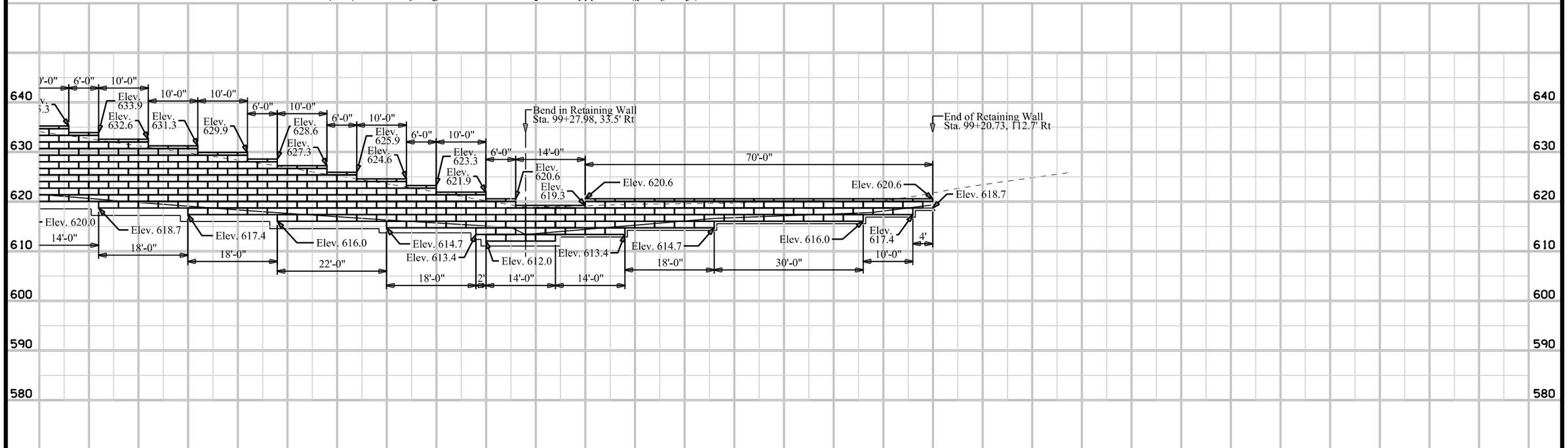

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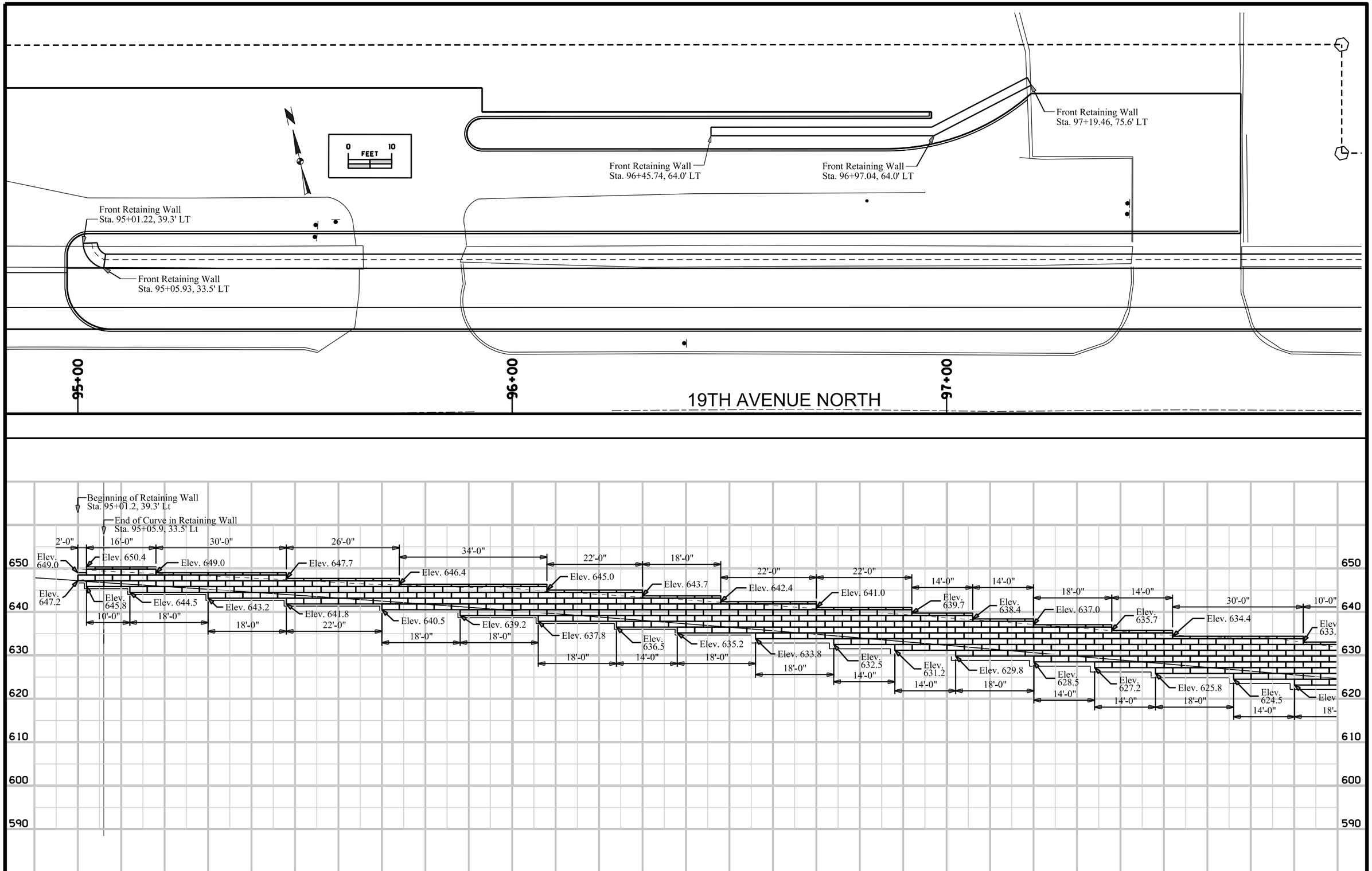

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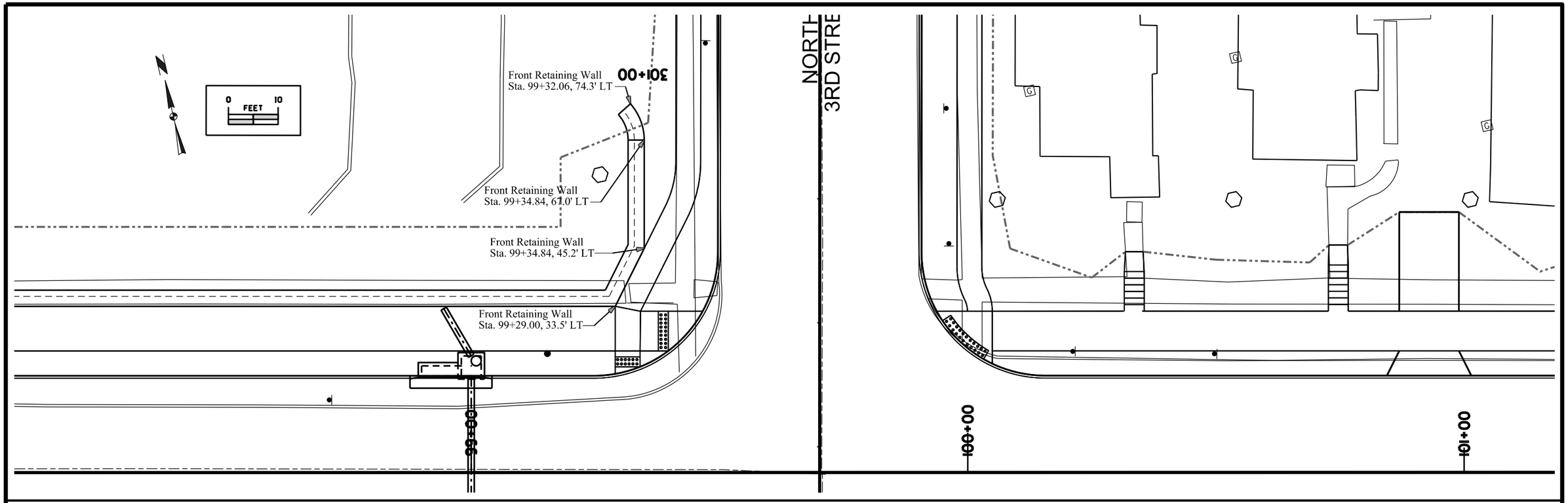

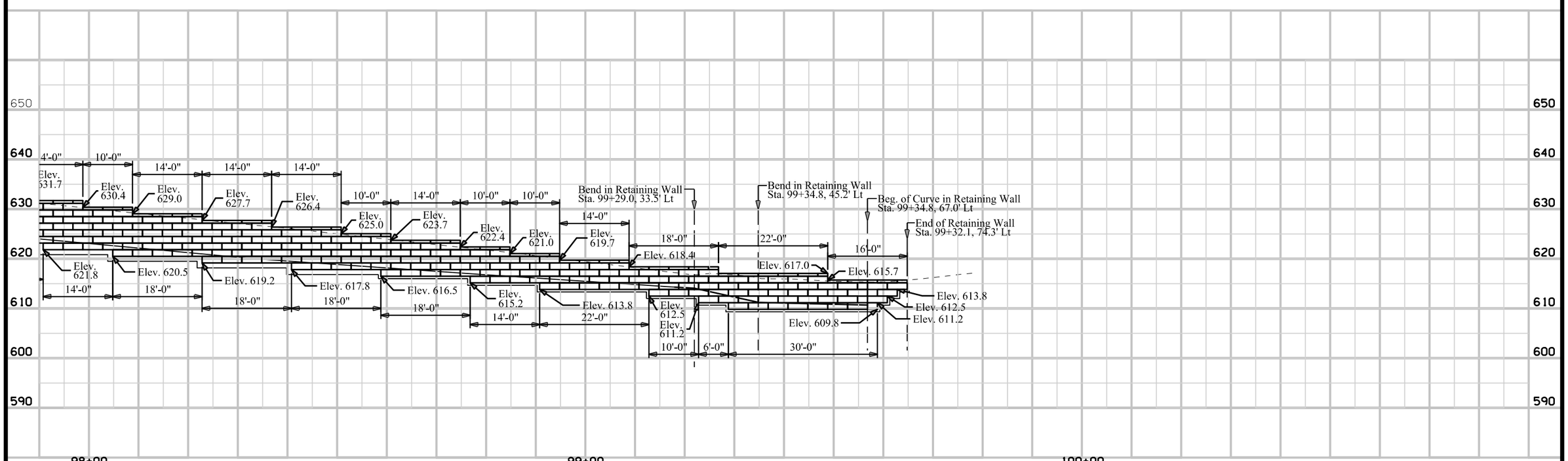

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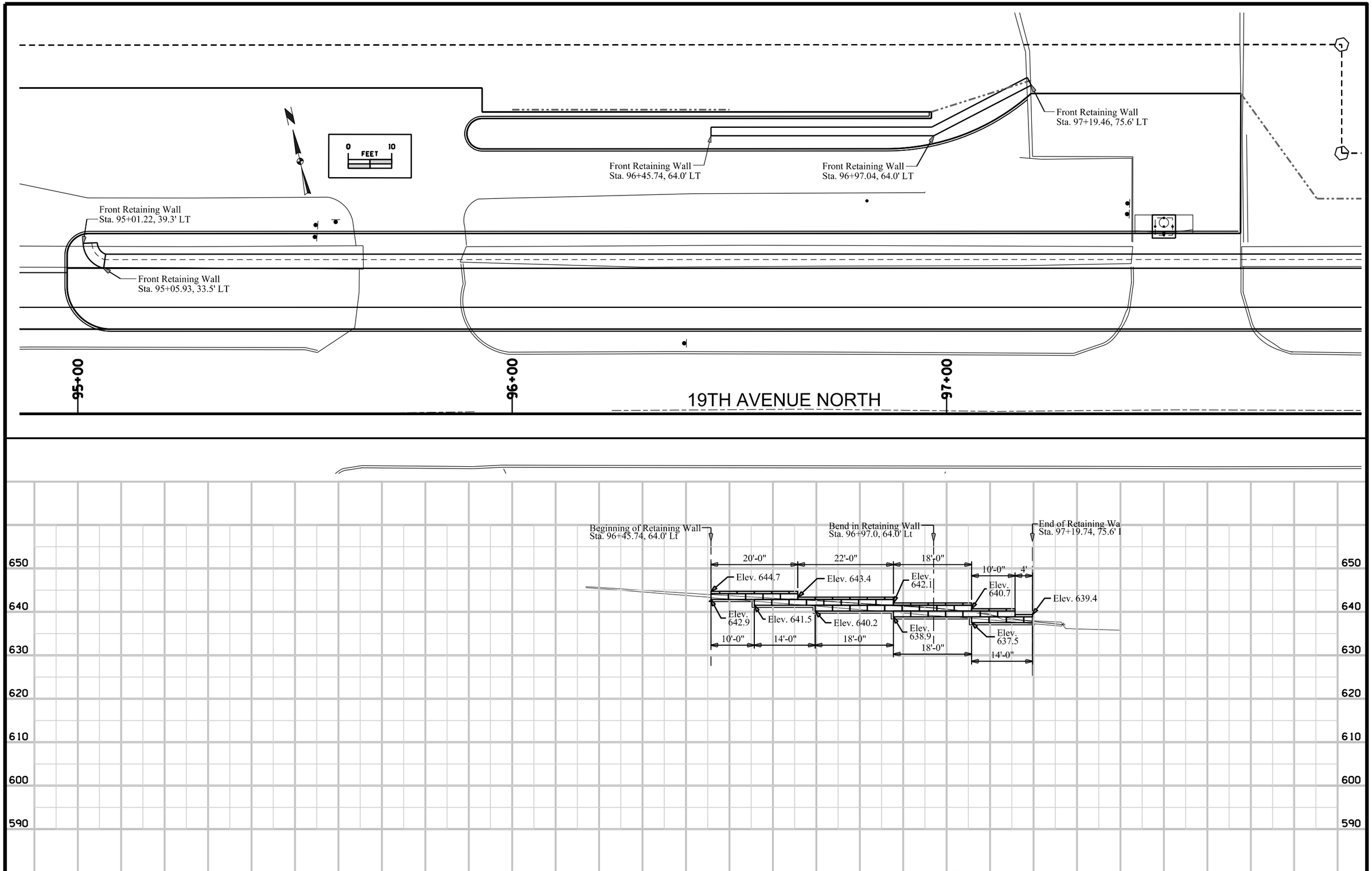

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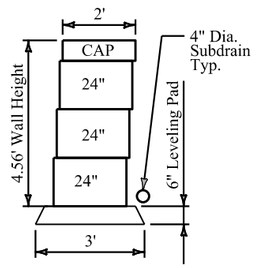
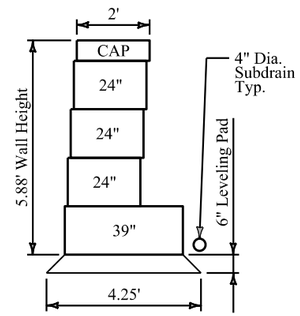
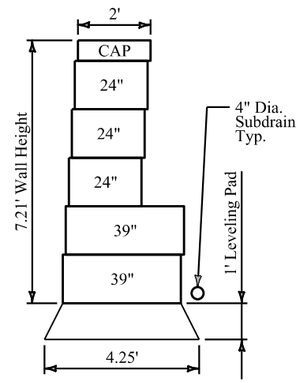


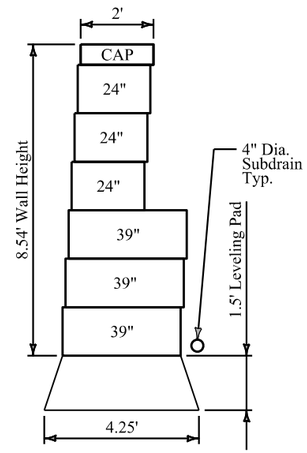
24" Block Typical



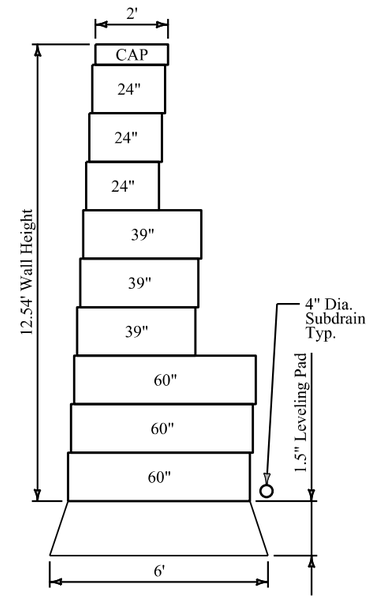
39" Block Typical A



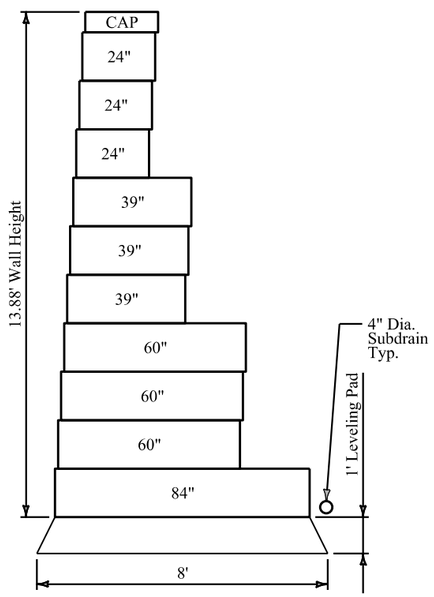
39" Block Typical B



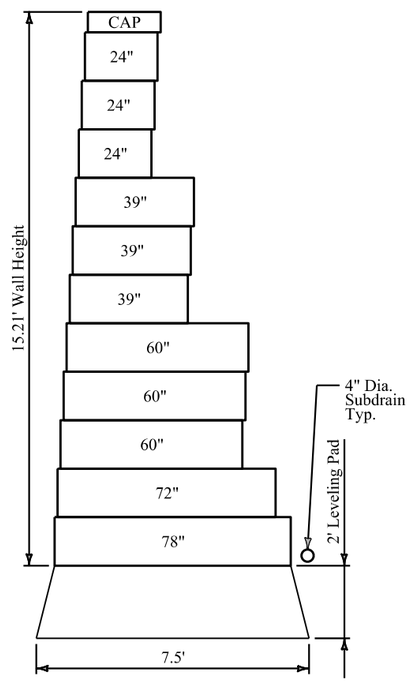
39" Block Typical C



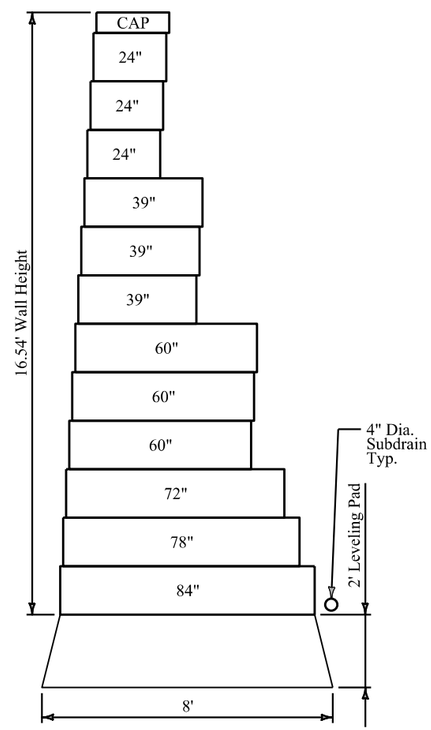
60" Block Typical



84" Block Typical A



72" Block Typical



84" Block Typical B

Notes:

1. Field verify all dimension.
2. Retaining Wall blocks shall be 48" Long x16" Tall xVariable Depth.
3. Block color and surface type shall be approved by owner. All choices shall be made from standard colors. No specialty materials will be required.
4. Shop drawings shall be submitted to the owner and the design engineer for approval prior to construction.
5. Walls designed match the shown typicals. No other wall heights have been considered.
6. Walls were designed as gravity walls without the need for geogrid.

Wall Location	Subdrain Length	Intake To Drain To	RF-19 Connections
Sta. 88+20 to Sta. 88+19.72 RT	265 lin ft	Intake S-63	2
Sta. 88+01.74 to Sta 88+88.44 RT	130 lin ft	Intake S-65	2
Sta. 96+15.53 to Sta. 99+20.73 RT	470 lin ft	Intake S-70 Intake S-72	4
Sta. 95+01.22 to Sta. 99+32.06 LT	540 lin ft	Intake S-69 Intake S-73	4
Sta. 96+45.74 to Sta. 97+19.46 LT	120 lin ft	Intake S-71	2