NORTH Dakota | Transportation
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November 4, 2020

ADDENDUM 1 – JOB 2

TO: All prospective bidders on Project UGP-8-992(041), Job No. 2 scheduled for the November 13, 2020 bid opening.

The following plans and request for proposal revision shall be made:

Plan Revisions:
See attached summaries from Paul Benning, P.E. dated November 4, 2020 for an explanation.

Request for Proposal Revisions:
Remove and replace pages 5 thru 14 of 16 of the Proposal pages located at the beginning of the Request for Proposal with pages revised 11/4/2020.

Bid Item Changes are summarized in the Plan Addendum Summary and Approval.

This addendum is to be incorporated into the bidder's proposal for this project. AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at http://www.bidx.com/ and load it into the AASHTOWare Project Bids program.

PHILLIP MURDOFF, P.E. – CONSTRUCTION SERVICES ENGINEER
80: dch
Enclosure

PLAN ADDENDUM SUMMARY AND APPROVAL

PROJECT INFORMATION			
Project:	UGP-8-992(041)	**PCN:**	22277
Location:	Sheyenne Street Downtown Improvements		
Date:	11/03/2020	**Lead Designer:**	Kevin J. Knott
Bid Opening Date:	November 13, 2020	**JOB#:** 2	**Addendum#:** 1

PLAN SHEET CHANGES		
Section	**Sheet**	**Description**
6	6	• Updated Note 722-P03 INLET CASTINGS. Added Curb & Gutter – Double Inlet Casting information.
6	11	• Updated Note 770-P07 INGROUND LIGHTING. Added brand name and catalog information for (2) additional in-ground light fixtures.
8	1	• Quantities updated.
8	3	• Quantities updated.
20	13	• Updated grading information in northwest corner of Sheyenne St & 6th Ave W.
20	22	• Updated points information for regrading northwest corner of Sheyenne St & 6th Ave W.
20	26	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
20	27	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
40	2	• Updated removal limits of concrete pavement in northwest corner of Sheyenne St & 6th Ave W.
50	1-4	• Added Code (D) for double inlets casting. • Updated casting information for double inlets: ST4B, ST23A, & ST23B. • Updated rim information for ST27 & ST27B. • Revised note (3) from "3IN curb at structure" to "3IN tall hood required" • Added note (3) to ST4B & ST27B.
55	2	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
55	6	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
55	7	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
55	15	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
55	19	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
55	20	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
60	2	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
60	6	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.

60	7	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
76	2	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
77	2	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
82	2	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
85	1	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
85	2	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
85	18	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
90	2	• Updated sidewalk pavement limits in northwest corner of Sheyenne St & 6th Ave W. • Added 7IN REINF CONCRETE PAVEMENT CL AE quantity. • Removed CURB-TYPE I quantity.
90	6	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
90	12	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
100	4	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
100	8	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
110	8	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
120	2	• Updated background design in northwest corner of Sheyenne St & 6th Ave W.
140	6	• Updated Note #1. Added brand name and catalog number information for the ground box and receptables that are approved
140	10	• Updated north circuit #1 Lighting Data Table. Quantity of #6 conductors for the receptacle circuit has been changed from 1 to 2 in nine rows. The quantity of conductor is correctly shown on the original plan.

CHANGES MADE TO BID ITEMS FOR JOB

Spec	Code	Description	Unit	Previous Quantity	Revised Quantity
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	16413	16351
550	0106	7IN REINF CONCRETE PAVEMENT CL AE	SY	1001	1022
748	0520	CURB-TYPE I	LF	167	153

APPROVAL

Should the revisions described above be processed as a plan addendum?

✓ Yes _____ No

For Paul Benning, P.E. – Local Government Engineer

11/4/2020
Date

BID ITEMS

Project: UGP-8-992(041) (PCN-22277)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	105	0200	POTHOLE UTILITY	EA	3.				
003	201	0330	CLEARING & GRUBBING	L SUM	1.				
004	201	0370	REMOVAL OF TREES 10IN	EA	12.				
005	201	0390	REMOVAL OF TREES 30IN	EA	1.				
006	202	0108	REMOVAL OF STRUCTURE-SITE 1	L SUM	1.				
007	202	0109	REMOVAL OF STRUCTURE-SITE 2	L SUM	1.				
008	202	0110	REMOVAL OF STRUCTURE-SITE 3	L SUM	1.				
009	202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	16,351.				
010	202	0130	REMOVAL OF CURB & GUTTER	LF	5,562.				
011	202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	4,846.				
012	202	0173	REMOVAL OF SEWER PIPE	LF	5,343.				
013	202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	1,107.				
014	202	0210	REMOVAL OF MANHOLES	EA	23.				
015	202	0230	REMOVAL OF INLETS	EA	29.				
016	202	0292	REMOVAL OF EXISTING RETAINING WALL	L SUM	1.				

BID ITEMS

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
017	202	0312	REMOVE EXISTING FENCE	LF	66.				
018	203	0101	COMMON EXCAVATION-TYPE A	CY	5,025.				
019	203	0109	TOPSOIL	CY	363.				
020	203	0138	COMMON EXCAVATION-SUBCUT	CY	500.				
021	210	0212	FLOWABLE FILL	CY	50.				
022	216	0100	WATER	M GAL	181.				
023	230	0300	SUBGRADE PREPARATION-TYPE A	STA	37.500				
024	251	0300	SEEDING CLASS III	ACRE	.450				
025	253	0201	HYDRAULIC MULCH	ACRE	.890				
026	302	0050	TRAFFIC SERVICE AGGREGATE	TON	100.				
027	302	0120	AGGREGATE BASE COURSE CL 5	TON	5,960.				
028	302	9970	TYPE II PIPE BEDDING	CY	961.				
029	430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	943.				
030	550	0106	7IN REINF CONCRETE PAVEMENT CL AE	SY	1,022.				
031	550	0117	9IN NON-REINF CONCRETE PAVEMENT CL AE	SY	9,338.				
032	702	0100	MOBILIZATION	L SUM	1.				

BID ITEMS

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
033	704	0100	FLAGGING	MHR	300.				
034	704	1000	TRAFFIC CONTROL SIGNS	UNIT	2,406.				
035	704	1052	TYPE III BARRICADE	EA	30.				
036	704	1054	SIDEWALK BARRICADE	EA	24.				
037	704	1056	PEDESTRIAN CHANNELIZATION	LF	500.				
038	704	1060	DELINEATOR DRUMS	EA	107.				
039	704	4011	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2.				
040	708	1540	INLET PROTECTION-SPECIAL	EA	104.				
041	708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	104.				
042	709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	15,244.				
043	714	0115	PIPE CONC REINF 12IN CL III-STORM DRAIN	LF	69.				
044	714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN	LF	1,146.				
045	714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN	LF	330.				
046	714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN	LF	320.				
047	714	0870	PIPE CONC REINF 33IN CL III-STORM DRAIN	LF	11.				
048	714	0910	PIPE CONC REINF 36IN CL III-STORM DRAIN	LF	557.				

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
049	714	1110	PIPE CONC REINF 48IN CL III-STORM DRAIN	LF	174.				
050	714	1212	PIPE CONC REINF 54IN CL III-STORM DRAIN	LF	997.				
051	714	6580	PIPE POLYETHYLENE CORR PERF 4IN DRAIN	LF	2,044.				
052	714	7033	PIPE PVC 15IN	LF	36.				
053	714	8498	CASING PIPE 18IN	LF	20.				
054	714	9696	EDGEDRAIN NON PERMEABLE BASE	LF	5,778.				
055	714	9910	FLAP GATE 18IN	EA	1.				
056	722	0100	MANHOLE 48IN	EA	9.				
057	722	0110	MANHOLE 60IN	EA	15.				
058	722	0120	MANHOLE 72IN	EA	2.				
059	722	0130	MANHOLE 84IN	EA	4.				
060	722	0140	MANHOLE 96IN	EA	9.				
061	722	0300	MANHOLE SANITARY	EA	6.				
062	722	0315	MANHOLE CASTING	EA	2.				
063	722	1100	MANHOLE RISER 48IN	LF	39.				
064	722	1110	MANHOLE RISER 60IN	LF	78.				

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price $$$$$	Unit Price 000	Amount $$$$$	Amount 00
065	722	1120	MANHOLE RISER 72IN	LF	8.				
066	722	1130	MANHOLE RISER 84IN	LF	20.600				
067	722	1140	MANHOLE RISER 96IN	LF	73.				
068	722	3297	ABANDON STORM SEWER	LF	385.				
069	722	3510	INLET-TYPE 2	EA	46.				
070	722	3520	INLET-TYPE 2 DOUBLE	EA	3.				
071	722	3701	INLET SPECIAL-TYPE 2 48IN	EA	3.				
072	722	3761	INLET SPECIAL-TYPE 2 60IN	EA	1.				
073	722	3900	INLET SLOTTED DRAIN 12IN	LF	20.				
074	722	6160	ADJUST INLET	EA	1.				
075	722	6201	ADJUST MANHOLE SPECIAL	EA	1.				
076	724	0210	FITTINGS-DUCTILE IRON	LBS	3,580.				
077	724	0270	REMOVE GATE VALVE & BOX	EA	12.				
078	724	0290	GATE VALVE & BOX 4IN	EA	1.				
079	724	0300	GATE VALVE & BOX 6IN	EA	14.				
080	724	0310	GATE VALVE & BOX 8IN	EA	10.				

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
081	724	0411	6IN HYDRANT	EA	3.				
082	724	0430	REMOVE HYDRANT	EA	3.				
083	724	0611	WATER SERVICE LINE 1IN	LF	314.				
084	724	0621	WATER SERVICE LINE 2IN	LF	111.				
085	724	0636	WATER SERVICE LINE 6IN	LF	147.				
086	724	0670	TEMPORARY WATER SERVICE	L SUM	1.				
087	724	0790	WATERMAIN 4IN PVC	LF	81.				
088	724	0810	WATERMAIN 6IN PVC	LF	80.				
089	724	0830	WATERMAIN 8IN PVC	LF	3,499.				
090	724	0852	WATERMAIN 16IN PVC	LF	5.				
091	724	0955	WATER SERVICE CONNECTION 1IN	EA	12.				
092	724	0960	WATER SERVICE CONNECTION 2IN	EA	3.				
093	724	0970	WATER LINE CONNECTION 4IN	EA	2.				
094	724	0975	WATER LINE CONNECTION 6IN	EA	3.				
095	724	0980	WATER LINE CONNECTION 8IN	EA	2.				
096	724	1035	SPRINKLER RELOCATION	L SUM	1.				

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
097	724	1110	8IN SANITARY SEWER PIPE	LF	763.				
098	724	6013	ABANDON VALVE BOX	EA	6.				
099	724	6031	ABANDON WATER MAIN/SERVICE LINE	LF	2,372.				
100	744	0100	POLYSTYRENE INSULATION BOARD	BD FT	1,664.				
101	748	0140	CURB & GUTTER-TYPE I	LF	490.				
102	748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	1,061.				
103	748	0190	CURB & GUTTER-TYPE I 30IN	LF	5,548.				
104	748	0500	CURB HEADER-TYPE I	LF	540.				
105	748	0520	CURB-TYPE I	LF	153.				
106	748	1080	VALLEY GUTTER-TYPE I 48IN	SY	420.				
107	750	0030	PIGMENTED IMPRINTED CONCRETE	SY	1,665.				
108	750	0115	SIDEWALK CONCRETE 4IN	SY	478.				
109	750	0120	SIDEWALK CONCRETE 5IN REINF	SY	4,640.				
110	750	1000	DRIVEWAY CONCRETE	SY	820.				
111	750	1016	DRIVEWAY CONCRETE 6IN REINFORCED	SY	187.				
112	750	2115	DETECTABLE WARNING PANELS	SF	676.600				

BID ITEMS

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
113	752	0911	TEMPORARY SAFETY FENCE	LF	1,000.				
114	754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	210.600				
115	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	67.500				
116	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	206.				
117	754	0592	RESET SIGN PANEL	EA	1.				
118	754	1104	REMOVE SIGN FOUNDATION	EA	1.				
119	762	0112	EPOXY PVMT MK MESSAGE	SF	64.				
120	762	0113	EPOXY PVMT MK 4IN LINE	LF	1,114.				
121	762	0115	EPOXY PVMT MK 8IN LINE	LF	212.				
122	762	0117	EPOXY PVMT MK 24IN LINE	LF	34.				
123	762	0122	PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED)	SF	64.				
124	762	1250	PREFORMED THERMO PLASTIC PVMT MK 4IN LINE	LF	243.				
125	762	1280	PREFORMED THERMO PLASTIC PVMT MK MESSAGE	SF	48.				
126	762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	5,241.				
127	762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED	LF	201.				
128	762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	LF	1,541.				

BID ITEMS

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
129	770	0003	LIGHTING SYSTEM A	EA	1.				
130	770	9271	CUSTOM ELECTRICAL PANEL	EA	1.				
131	770	9273	SERVICE OUTLET	EA	1.				
132	770	9404	LIGHTING SYSTEM (LANDSCAPE)	L SUM	1.				
133	772	9200	IT SYSTEM	EA	1.				
134	930	9543	RETAINING WALL	SF	1,273.				
135	970	0004	LANDSCAPE INTERLOCKING BLOCK	SF	858.				
136	970	0007	LANDSCAPE PREPARATION	EA	1.				
137	970	0050	STRUCTURAL SOIL	CY	161.				
138	970	0060	PLANTING SOIL	CY	353.				
139	970	0074	WOOD MULCH	CY	43.				
140	970	0095	HERBICIDE WEED CONTROL	ACRE	.900				
141	970	0300	BENCH	EA	14.				
142	970	0320	TRASH RECEPTACLE	EA	8.				
143	970	0450	BIKE RACKS	EA	8.				
144	970	0600	CAST IRON TREE GRATES	EA	7.				

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						$$$$$	000	$$$$$	00
145	**970**	**1000**	**TREES**	**EA**	**20.**				
146	**970**	**1012**	**SHRUBS GROUP A**	**EA**	**27.**				
147	**970**	**1025**	**REPLANT TREES**	**EA**	**1.**				
148	**970**	**1030**	**PERENNIALS GROUP A**	**EA**	**1,033.**				
149	**990**	**0221**	**GUARD POST-REMOVABLE**	**EA**	**6.**				
			TOTAL SUM BID						

NOTES

714-P05 PIPE POLYETHYLENE CORR PERF 4IN DRAIN: Install 4-inch corrugated drainpipe, wrapped in polyester sock as shown in Sect 85 plan sheets. Encase drainpipe in a 6-inch x 8-inch pea gravel pit. Install perforated drainpipe only within landscape planters; solid pipe to be located between planting beds and storm drain. Drainpipe runs under concrete to be solid 4-inch drainpipe terminating at nearest drain inlet. Ensure positive slope of drain tile to drain inlet.

Include the all materials and aggregate necessary to install the curbing in the unit price for "Pipe Polyethylene Corr Perf 4In Drain".

722-P01 INLETS AND MANHOLE OFFSETS: All inlet and manhole offsets indicated in Section 50, Inlet and Manhole Summary, are to the center of structure. For Inlet Special structures, cast opening in center of cover.

722-P02 MANHOLE CASTINGS: Manhole castings to be installed are as follows. Storm drain castings will have open pickholes and "Storm Sewer" lettering. Sanitary sewer castings will have two closed pickholes, gaskets, and "Sanitary Sewer" lettering.

Grass or Asphalt Pavement:
a) Neenah R-1733
b) East Jordan Iron Works 1205 (Storm Drain)
c) East Jordan Iron Works 1205 A.G.S. (Sanitary Sewer)
d) Approved Equal

Concrete Pavement:
a) Neenah R-1955-1
b) East Jordan Iron Works 3025 SELFLEVEL
c) Approved Equal

722-P03 INLET CASTINGS: Inlet castings to be installed in curb and gutter, grass, or outside of pavement are as follows:

Grass or Outside Pavement:
a) Neenah R-2577 with Convex Casting Grate
b) East Jordan Iron Works 1205-M2 with Convex Casting Grate
c) Approved Equal

Curb & Gutter - Single Inlets:
a) Neenah R-3067-C with 2" Radius Open Curb Box
b) East Jordan Iron Works 7030-M2 with T1 Back
c) Approved Equal

Curb & Gutter - Double Inlets:
a) Neenah R-3295-2
b) East Jordan Iron Works 7031
c) Approved Equal

Valley Gutter:
a) Neenah R-3347-A
b) Approved Equal

722-P04 CITY OF WEST FARGO SPECIFICATIONS: Refer to Special Provision 99(20) for specifications regarding sanitary sewer and water main items.

722-P05 MANHOLE CASTING: Remove and replace existing manhole castings to be located within proposed concrete paving with floating castings where indicated on the drawings. Include all labor, materials, and equipment to remove and salvage the existing casting, remove existing concrete or plastic adjusting rings, install new plastic adjusting rings, and install new casting in the price bid for "Manhole Casting."

722-P06 ADJUST INLET: Remove casting and adjusting rings, install Inlet Catch Basin base with mastic seal, and backfill excavation. Include all labor, materials, and equipment associated with removing casting and installing cover in the price bid for "Adjust Inlet."

722-P07 ADJUST MANOHLE SPECIAL: Remove casting, adjusting rings, and precast cover of 72" Manhole at Sta 13+45 25.1' Lt. Install new precast cover in accordance with Standard Drawing D-722-5, 1' concrete adjusting ring and other rings as necessary, and Type (Y) casting as specified in Sect 50. Include all labor, materials, and equipment to adjust manhole in the price bid of "Adjust Manhole Special."

722-P08 MANHOLE STORM CONNECTION: All connections to existing storm sewer or sanitary sewer may involve cutting existing structures. Saw storm sewer opening, install pipe and mortar close. Core sanitary sewer opening, install rubber boot, and install pipe. Include all labor and materials required to perform this work in the price bid for storm drain and sanitary sewer bid items.

722-P09 MANHOLES: Storm and sanitary sewer manholes to include external chimney seals by Cretex Specialty Products, Strike Products, or Sealing Systems Inc. Provide steps in only the bottom section of storm sewer manholes and no steps in sanitary sewer manholes. Include all labor, equipment, and manhole external chimney seals in bid price for "Manhole __ In" and "Sanitary Manhole."

722-P10 SANITARY SEWER PIPE: Contractor to accommodate existing sewage flow with installation of new sanitary sewer pipe. Include all labor, materials, and equipment, including possible temporary pumping, necessary to install sanitary sewer pipe in the price bid of "8IN Sanitary Sewer Pipe."

This document was originally issued and sealed by Kevin J Knott Registration Number PE-5679, On 11/03/2020 and the original document is stored at the City of West Fargo

NOTES

New Feedpoint #3

Provide 22KAIC rated feedpoint on concrete pedestal to serve the power for portable power distribution boxes, planter receptacles, and future power connections to Focus Areas. The new pad mount feedpoint to be manufactured by Northwoods, States Electric, or Povolny or approved equal. The free standing enclosure to be stainless steel with integral 200 amp single phase meter socket and photocell, with a viewing window for each. The enclosure to be service entrance rated at 200 amp, with a 42 circuit distribution panel with 200 amp main circuit breaker, convenience receptacle,(2) 20/1 circuit breaker for the control circuit and the convenience receptacle, (3) 50/2 breakers for owner power distribution box receptacles, and (18) 20/1 GFCI circuit breakers to serve planter receptacle circuits and future Focus Areas. Provide (3) 50 amp, 4 wire receptacles in individual backboxes with covers in the enclosure for cord and plug connected portable power distribution box receptacles. Provide (1) 3" PVC threaded nipples with threaded caps low on each sidewall of the enclosure to be used for temporary cord entrance.

Provide (10) 30A 2 pole contactors for planter circuit control. Provide an HOA switch for planter circuits control. The Auto mode to be photocell controlled.
Provide all branch circuit conduit, junction boxes, conduit rough ins, and wiring associated with feedpoint as shown on plan.

The concrete pedestal to be elevated 18" above grade. Coordinate with utility to provide a 120/240 volt, 200 amp, single phase service to the feedpoint. The secondary service conductors to the feedpoint to be furnished by Xcel Energy. The cost of installing new feedpoint #3 and associated branch circuiting to be paid for at the contract bid price for "Custom Electrical Panel."

770-P06 2 INCH DIAMETER RIGID CONDUIT AND UNDERGROUND CONDUCTOR: Furnish and install rigid conduit and single USE conductors for the street lighting and festoon circuits sized as shown on plans. The cost to furnish conduit and conductors to be paid for at the contract price bid for rigid and underground conductors. The cost of installing conduit with single conductors to be paid for at the contract bid price for "Lighting System A."

770-P07 INGROUND LIGHTING; Furnish and install (4) in ground lighting fixtures at each Focus Area as shown on plans sheets. Locate fixture base as shown on Hardscape plan sheets details. The fixtures to be an approved equal to: Hydrel M9400C, Lumascape LS 3040, or WE-CF ETC140-GB, round door, double lens, stainless steel door and trim ring, 20W, 4000K, narrow flood, flat lens clear, 10 degrees optical tilt, slip resistant. Wire and connect to lighting circuit in adjacent light base as shown on plan via ¾" C, 2 #10+G. Provide fuse holder for each phase conductor in the light base fused at 5 amps. The cost of installing in ground lighting to be paid for at the contract bid price for "Lighting System (Landscape)."

770-P08 COMMUNICATION CONDUIT/JUNCTION POINTS; Furnish and install in-ground junction points and communication conduits as shown on plans sheets. Provide a fiber optic "backbone" cable in one 2" conduit as described on plan sheets. Provide conduit rough ins from j-points to designated areas as shown on the plan sheets. The cost of installing communication j-points, conduit rough ins, and Fiber Optic cabling to be paid for at the contract bid price for "IT System."

770-P09 OUTDOOR GROUND BOXES; Furnish and install outdoor ground boxes in the planter beds as shown on plans sheets. Provide ¾"C, (2) #10 =#10 G to feedpoint or junction box as shown on the plan sheets. The cost of installing outdoor ground boxes and cabling to be paid for at the contract bid price for "Service Outlets."

This document was originally issued and sealed by Kevin Kroke Registration Number PE-4966, on 11/03/2020 and the original document is stored at the City of West Fargo

Revised	11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	UGP-8-992(041)	8	1

Estimated Quantities

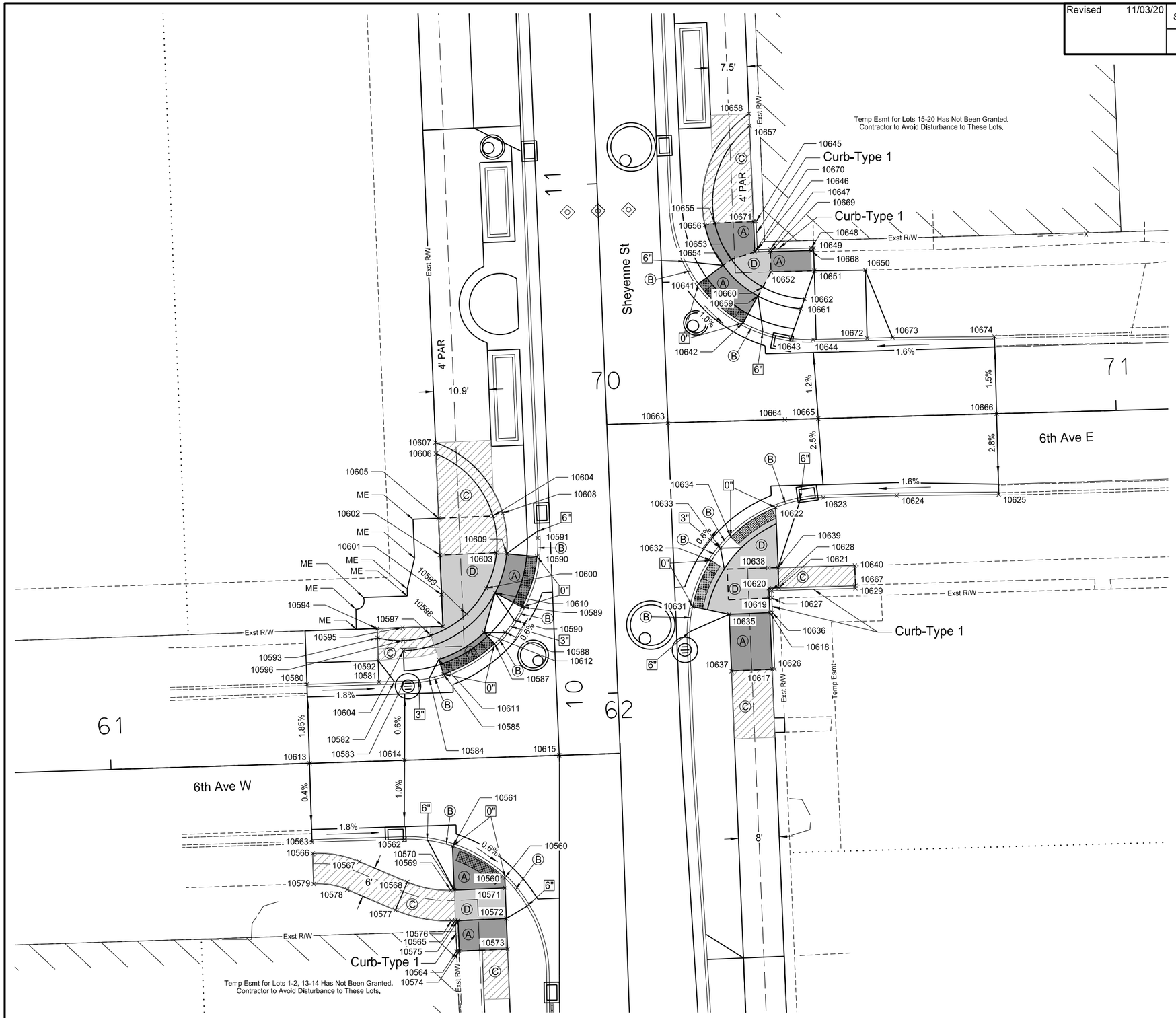
SPEC	CODE	ITEM DESCRIPTION	UNIT	FEDERAL AID ELIGIBLE	100% CITY	DRAINAGE		TOTAL
103	0100	CONTRACT BOND	L SUM	1				1
105	0200	POTHOLE UTILITY	EA	3				3
201	0330	CLEARING & GRUBBING	L SUM	1				1
201	0370	REMOVAL OF TREES 10IN	EA	12				12
201	0390	REMOVAL OF TREES 30IN	EA	1				1
202	0108	REMOVAL OF STRUCTURE-SITE 1	L SUM	1				1
202	0109	REMOVAL OF STRUCTURE-SITE 2	L SUM	1				1
202	0110	REMOVAL OF STRUCTURE-SITE 3	L SUM	1				1
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	15456	895			16351
202	0130	REMOVAL OF CURB & GUTTER	LF	4308	1254			5562
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	2670	2176			4846
202	0173	REMOVAL OF SEWER PIPE	LF	5343				5343
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	1107				1107
202	0210	REMOVAL OF MANHOLES	EA	23				23
202	0230	REMOVAL OF INLETS	EA	29				29
202	0292	REMOVAL OF EXISTING RETAINING WALL	L SUM	1				1
202	0312	REMOVE EXISTING FENCE	LF	66				66
203	0101	COMMON EXCAVATION-TYPE A	CY	5025				5025
203	0109	TOPSOIL	CY	234	129			363
203	0138	COMMON EXCAVATION-SUBCUT	CY	500				500
210	0212	FLOWABLE FILL	CY	50				50
216	0100	WATER	M GAL	181				181
230	0300	SUBGRADE PREPARATION-TYPE A	STA	30.1	7.4			37.5
251	0300	SEEDING CLASS III	ACRE	0.29	0.16			0.45
253	0201	HYDRAULIC MULCH	ACRE	0.57	0.32			0.89
302	0050	TRAFFIC SERVICE AGGREGATE	TON	100				100
302	0120	AGGREGATE BASE COURSE CL 5	TON	4913	1047			5960
302	9970	TYPE II PIPE BEDDING	CY		332	629		961
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	509	434			943
550	0106	7IN REINF CONCRETE PAVEMENT CL AE	SY	799	223			1022
550	0117	9IN NON-REINF CONCRETE PAVEMENT CL AE	SY	8442	896			9338
702	0100	MOBILIZATION	L SUM	1				1
704	0100	FLAGGING	MHR	300				300
704	1000	TRAFFIC CONTROL SIGNS	UNIT	2406				2406
704	1052	TYPE III BARRICADE	EA	30				30
704	1054	SIDEWALK BARRICADE	EA	24				24
704	1056	PEDESTRIAN CHANNELIZATION	LF	500				500
704	1060	DELINEATOR DRUMS	EA	107				107
704	4011	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2				2
708	1540	INLET PROTECTION - SPECIAL	EA	104				104
708	1541	REMOVE INLET PROTECTION - SPECIAL	EA	104				104
709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	11059	4185			15244
714	0115	PIPE CONC REINF 12IN CL III-STORM DRAIN	LF	69				69
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN	LF	1146				1146
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN	LF			330		330
714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN	LF			320		320
714	0870	PIPE CONC REINF 33IN CL III-STORM DRAIN	LF			11		11

Revised	11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	UGP-8-992(041)	8	3

Estimated Quantities

SPEC	CODE	ITEM DESCRIPTION	UNIT	FEDERAL AID ELIGIBLE	100% CITY	DRAINAGE		TOTAL
724	0980	WATER LINE CONNECTION 8IN	EA		2			2
724	1035	SPRINKLER RELOCATION	L SUM	1				1
724	1110	8IN SANITARY SEWER PIPE	LF		763			763
724	6013	ABANDON VALVE BOX	EA	6				6
724	6031	ABANDON WATER MAIN/SERVICE LINE	LF	2372				2372
744	0100	POLYSTYRENE INSULATION BOARD	BD FT		1664			1664
748	0140	CURB & GUTTER-TYPE I	LF	433	57			490
748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	1061				1061
748	0190	CURB & GUTTER-TYPE I 30IN	LF	4318	1230			5548
748	0500	CURB HEADER-TYPE I	LF	540				540
748	0520	CURB-TYPE I	LF	139	14			153
748	1080	VALLEY GUTTER-TYPE I 48IN	SY	293	127			420
750	0030	PIGMENTED IMPRINTED CONCRETE	SY	1414	251			1665
750	0115	SIDEWALK CONCRETE 4IN	SY	294	184			478
750	0120	SIDEWALK CONCRETE 5IN REINF	SY	4515	125			4640
750	1000	DRIVEWAY CONCRETE	SY	654	166			820
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED	SY	62	125			187
750	2115	DETECTABLE WARNING PANELS	SF	632.6	44			676.6
752	0911	TEMPORARY SAFETY FENCE	LF	1000				1000
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	209.1	1.5			210.6
754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	67.5				67.5
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	193	13			206
754	0592	RESET SIGN PANEL	EA	1				1
754	1104	REMOVE SIGN FOUNDATION	EA	1				1
762	0112	EPOXY PVMT MK MESSAGE	SF	64				64
762	0113	EPOXY PVMT MK 4IN LINE	LF	1114				1114
762	0115	EPOXY PVMT MK 8IN LINE	LF	212				212
762	0117	EPOXY PVMT MK 24IN LINE	LF	34				34
762	0122	PREFORMED PATTERNED PVMT MK-MESSAGE(GROOVED)	SF	64				64
762	1250	PREFORMED THERMO PLASTIC PVMT MK 4IN LINE	LF	243				243
762	1280	PREFORMED THERMO PLASTIC PVMT MK MESSAGE	SF	48				48
762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	4901	340			5241
762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED	LF	201				201
762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	LF	1541				1541
770	0003	LIGHTING SYSTEM A	EA	1				1
770	9271	CUSTOM ELECTRICAL PANEL	EA	1				1
770	9273	SERVICE OUTLET	EA	1				1
770	9404	LIGHTING SYSTEM (LANDSCAPE)	L SUM	1				1
772	9200	IT SYSTEM	EA	1				1
930	9543	RETAINING WALL	SF	1273				1273
970	0004	LANDSCAPE INTERLOCKING BLOCK	SF	858				858
970	0007	LANDSCAPE PREPARATION	EA	1				1
970	0050	STRUCTURAL SOIL	CY		161			161
970	0060	PLANTING SOIL	CY	353				353
970	0074	WOOD MULCH	CY	43				43
970	0095	HERBICIDE WEED CONTROL	ACRE	0.58	0.32			0.9
970	0300	BENCH	EA	14				14

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	13



LEGEND

- (A) 12:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- (B) 10:1 Maximum Flare Slope
- (C) 20:1 Maximum Longitudinal Slope, 50:1 Maximum Cross Slope
- (D) 50:1 Maximum Landing Slope (All Dir.) (Landing)
- (E) 4:1 Maximum Flare Slope
- 0" 3" 6" Curb Height
- ME Match Existing
- Grade Break
- Street Crown Line
- Proposed Inlet

Notes:
1. Any ramp found to be in noncompliance will be removed and replaced by the contractor at their own expense.
2. Dimensions shown may vary from actual. Contractor will field fit and adjust if maximum slopes cannot be met with dimensions shown.
3. All curb ramp flares are graded unless otherwise noted.
4. See Standard Drawing D-750-3 for more details.
5. See Curb-Type I detail.

N

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Sheyenne Street

ADA & Street Grading

6th Ave

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	22

6th Ave W				
Point #	Northing	Easting	Elevation	Description
10560	459668.36	2867884.22	896.74	BOC
10561	459674.58	2867873.96	896.82	BOC
10562	459675.95	2867864.58	897.38	BOC
10563	459675.37	2867846.40	897.71	BOC
10564	459653.97	2867874.79	897.47	BOC
10565	459659.97	2867874.55	897.08	BOC
10566	459673.16	2867846.53	897.83	EOSW
10567	459671.57	2867855.67	897.63	EOSW
10568	459667.54	2867865.09	897.33	EOSW
10569	459665.94	2867873.60	897.00	EOSW
10570	459665.96	2867874.31	896.99	EOSW
10571	459666.36	2867884.30	896.84	EOSW
10572	459660.37	2867884.54	896.93	EOSW
10573	459654.37	2867884.78	897.33	EOSW
10574	459653.99	2867875.29	897.47	EOSW
10575	459659.99	2867875.05	897.07	EOSW
10576	459659.94	2867873.79	897.09	EOSW
10577	459662.03	2867862.73	897.42	EOSW
10578	459666.06	2867853.31	897.72	EOSW
10579	459667.16	2867846.72	897.92	EOSW
10580	459706.35	2867845.41	897.02	BOC
10581	459706.80	2867859.54	896.64	BOC
10582	459706.90	2867862.54	896.78	BOC
10583	459706.96	2867864.54	896.76	BOC-PC
10584	459707.56	2867869.38	896.73	BOC
10585	459708.33	2867872.22	896.47	BOC
10587	459714.33	2867882.23	896.40	BOC
10588	459716.47	2867884.25	896.64	BOC
10589	459721.51	2867887.64	896.36	BOC
10590	459731.39	2867890.56	896.30	BOC
10591	459735.06	2867890.65	896.53	BOC
10592	459710.98	2867859.40	896.98	EOSW
10593	459715.47	2867859.26	897.05	EOSW
10594	459717.27	2867859.20	897.08	EOSW
10595	459717.44	2867864.20	896.92	EOSW
10597	459715.92	2867869.69	896.78	EOSW
10599	459720.14	2867876.73	896.71	EOSW
10600	459725.20	2867880.54	896.74	EOSW
10601	459723.92	2867871.82	896.81	EOSW
10602	459731.70	2867871.51	896.95	EOSW
10603	459732.15	2867882.59	896.78	EOSW
10604	459739.36	2867881.89	897.01	EOSW
10605	459738.93	2867871.22	897.17	EOSW
10606	459751.60	2867870.70	897.26	EOSW
10607	459753.77	2867870.62	897.26	EOSW
10608	459739.93	2867883.81	896.98	EOSW
10609	459731.96	2867884.58	896.75	EOSW
10610	459724.28	2867882.32	896.71	EOSW
10611	459711.18	2867871.27	896.70	EOSW
10612	459716.51	2867880.17	896.63	EOSW
10613	459690.86	2867845.93	897.34	CL
10614	459691.46	2867864.55	897.09	CL
10615	459692.42	2867894.91	896.54	CL

6th Ave E				
Point #	Northing	Easting	Elevation	Description
10617	459709.26	2867936.72	897.15	EOSW
10618	459720.42	2867936.25	896.53	EOSW
10619	459723.25	2867936.13	896.50	EOSW
10620	459725.21	2867936.05	896.48	EOSW
10621	459725.26	2867937.99	896.48	EOSW
10622	459741.06	2867937.39	896.18	BOC
10623	459743.00	2867946.75	896.62	BOC
10624	459743.39	2867961.17	896.88	BOC
10625	459743.59	2867981.16	897.23	BOC
10626	459709.29	2867937.22	897.15	BOC
10627	459723.27	2867936.63	896.98	BOC
10628	459724.72	2867936.57	896.98	BOC
10629	459725.17	2867953.06	897.15	BOC
10631	459721.61	2867921.07	896.33	BOC
10632	459730.63	2867924.78	896.27	BOC
10633	459733.06	2867926.54	896.51	BOC
10634	459735.28	2867928.56	896.24	BOC
10635	459720.09	2867928.26	896.41	EOSW
10636	459720.45	2867936.75	897.53	BOC
10637	459708.93	2867928.72	897.03	EOSW
10638	459729.20	2867935.94	896.44	EOSW
10639	459729.26	2867937.89	896.47	EOSW
10640	459729.67	2867952.94	897.05	EOSW
10641	459784.97	2867922.23	896.44	BOC
10642	459777.28	2867931.01	896.32	BOC
10643	459774.20	2867940.34	896.76	BOC
10644	459773.96	2867944.73	896.34	BOC
10645	459797.17	2867933.54	897.39	BOC
10646	459791.66	2867933.77	897.43	BOC
10647	459791.73	2867936.35	897.43	BOC
10648	459791.95	2867944.35	897.54	BOC
10649	459791.97	2867944.85	897.54	BOC
10650	459787.61	2867954.97	897.68	EOSW
10651	459787.47	2867944.97	897.48	EOSW
10652	459787.24	2867936.47	896.87	EOSW
10653	459789.71	2867928.68	896.86	EOSW
10654	459788.52	2867927.07	896.83	EOSW
10655	459796.84	2867925.45	897.28	EOSW
10656	459796.41	2867923.49	897.25	EOSW
10657	459815.89	2867932.26	897.47	EOSW
10658	459818.29	2867932.16	897.47	EOSW
10659	459782.54	2867933.89	896.78	EOSW
10660	459784.29	2867934.86	896.81	EOSW
10661	459780.01	2867942.37	897.08	EOSW
10662	459781.97	2867943.05	897.18	EOSW
10663	459757.68	2867916.25	896.46	CL
10664	459758.30	2867939.20	896.46	CL
10665	459758.48	2867945.74	896.58	CL
10666	459759.43	2867980.74	897.20	CL
10667	459725.67	2867953.04	897.15	EOSW
10668	459791.45	2867944.36	897.54	EOSW
10669	459791.23	2867936.36	896.93	EOSW
10670	459791.15	2867933.29	896.93	EOSW
10671	459797.15	2867933.04	897.39	EOSW
10672	459774.25	2867955.33	896.51	BOC
10673	459774.38	2867960.33	897.09	BOC
10674	459774.54	2867980.33	897.42	BOC

5th Ave W				
Point #	Northing	Easting	Elevation	Description
10682	459989.95	2867870.93	897.03	BOC
10683	459995.12	2867860.46	896.93	BOC
10684	459995.88	2867853.16	897.37	BOC
10685	459995.56	2867843.42	897.61	BOC
10686	459995.39	2867838.91	897.72	BOC
10687	459994.60	2867823.17	898.10	BOC
10688	459945.37	2867862.50	898.28	EOSW
10689	459949.60	2867862.33	898.28	EOSW
10690	459951.76	2867862.24	898.28	EOSW
10691	459969.76	2867875.02	897.77	EOSW
10692	459969.92	2867879.01	897.74	EOSW
10693	459969.68	2867873.02	897.79	EOSW
10694	459985.27	2867867.17	897.31	EOSW
10695	459983.71	2867865.92	897.34	EOSW
10696	459987.35	2867858.56	897.42	EOSW
10697	459989.29	2867859.03	897.39	EOSW
10698	459989.87	2867853.02	897.48	EOSW
10699	459993.86	2867852.83	897.41	EOSW
10700	459987.27	2867837.09	897.76	EOSW
10701	459984.33	2867839.80	897.71	EOSW
10702	459991.39	2867839.11	897.75	EOSW
10703	459984.36	2867843.00	897.65	EOSW
10704	459983.99	2867831.65	897.85	EOSW
10705	459979.92	2867829.39	897.91	EOSW
10706	459976.56	2867828.14	897.96	EOSW
10707	459976.84	2867836.77	897.83	EOSW
10708	459979.34	2867811.67	897.96	EOSW
10709	459983.34	2867811.54	897.91	EOSW
10710	459977.12	2867845.56	897.70	EOSW
10711	459977.63	2867861.18	897.46	EOSW
10712	459969.21	2867861.52	897.87	EOSW
10713	459968.58	2867845.91	898.11	EOSW
10714	459951.41	2867846.60	898.52	EOSW
10715	459949.22	2867846.69	898.52	EOSW
10716	460042.10	2867828.28	897.86	BOC
10717	460024.35	2867851.79	897.42	BOC
10718	460026.23	2867859.40	897.50	BOC
10719	460034.12	2867868.87	897.63	BOC
10720	460047.72	2867872.77	897.78	BOC
10721	460069.16	2867852.79	898.45	BOC
10722	460042.55	2867830.23	898.20	EOSW
10723	460026.31	2867851.13	897.45	EOSW
10724	460032.31	2867850.88	897.56	EOSW
10725	460042.71	2867836.37	897.92	EOSW
10726	460044.70	2867835.94	898.06	EOSW
10727	460044.75	2867837.95	897.99	EOSW
10728	460034.31	2867850.80	897.59	EOSW
10729	460033.54	2867856.16	897.46	EOSW
10730	460035.37	2867855.35	897.49	EOSW
10731	460039.75	2867860.61	897.57	EOSW
10732	460038.62	2867862.26	897.54	EOSW
10733	460047.39	2867864.77	897.70	EOSW
10734	460047.31	2867862.78	897.67	EOSW
10735	460059.29	2867850.77	898.15	EOSW
10736	460061.29	2867850.69	898.23	EOSW
10737	460067.30	2867850.44	898.48	EOSW
10738	460064.68	2867842.51	898.51	EOSW
10739	460059.17	2867842.73	898.28	EOSW
10740	460056.83	2867842.83	898.18	EOSW
10741	460049.03	2867835.96	898.13	EOSW
10742	460049.08	2867838.00	898.06	EOSW
10743	460049.21	2867843.14	897.85	EOSW
10744	460049.42	2867851.18	897.75	EOSW
10745	460045.09	2867851.36	897.68	EOSW
10746	460044.89	2867843.32	897.80	EOSW
10747	460044.57	2867831.01	898.24	EOSW
10748	460048.90	2867830.90	898.31	EOSW
10749	460008.67	2867822.71	897.92	CL
10750	460010.96	2867839.94	897.48	CL
10751	460011.36	2867852.30	897.17	CL
10752	460011.63	2867860.71	897.09	CL

5th Ave E				
Point #	Northing	Easting	Elevation	Description
10772	460106.47	2867922.30	897.31	BOC
10773	460098.35	2867911.42	897.42	BOC
10774	460108.45	2867931.74	897.74	BOC
10775	460110.21	2867995.71	897.47	BOC
10776	460110.71	2868013.71	897.53	BOC
10777	460111.00	2868024.40	898.07	BOC
10778	460114.03	2868054.45	897.80	BOC
10779	460115.53	2868064.35	897.85	BOC
10780	460081.03	2867921.68	897.97	BOC
10781	460094.65	2867921.11	897.92	BOC
10782	460093.49	2867921.15	897.92	BOC
10783	460094.77	2867925.44	897.92	BOC
10784	460095.12	2867938.19	898.10	BOC
10785	460063.31	2867921.92	898.08	EOSW
10786	460065.74	2867921.81	898.08	EOSW
10787	460075.04	2867912.49	897.89	EOSW
10788	460080.69	2867913.50	897.85	EOSW
10789	460080.60	2867911.50	897.82	EOSW
10790	460093.35	2867917.66	897.47	EOSW
10791	460094.60	2867916.10	897.44	EOSW
10792	460100.91	2867924.57	897.43	EOSW
10793	460099.06	2867925.32	897.45	EOSW
10794	460102.44	2867931.63	897.74	EOSW
10795	460106.44	2867931.46	897.77	EOSW
10796	460103.24	2867944.78	897.94	EOSW
10797	460099.75	2867942.81	898.10	EOSW
10798	460095.81	2867944.94	898.18	EOSW
10799	460096.09	2867955.18	898.30	EOSW
10800	460100.01	2867952.10	898.21	EOSW
10801	460097.22	2867996.07	898.23	EOSW
10802	460101.22	2867995.96	898.17	EOSW
10803	460101.71	2868013.95	898.13	EOSW
10804	460099.62	2867938.07	898.04	EOSW
10805	460160.79	2867902.21	897.85	BOC
10806	460149.57	2867905.41	897.77	BOC
10807	460142.48	2867910.94	897.71	BOC
10808	460136.65	2867921.05	897.64	BOC
10809	460135.41	2867929.90	897.58	BOC
10810	460139.44	2867943.37	897.66	BOC
10811	460153.60	2867954.69	898.20	BOC
10812	460154.84	2867999.85	898.20	BOC
10813	460138.80	2868014.07	898.05	BOC
10814	460137.79	2868016.40	898.03	BOC
10815	460137.81	2868017.07	898.04	BOC
10816	460141.92	2868020.96	897.99	BOC
10817	460157.41	2868020.53	897.99	BOC
10818	460165.41	2868020.31	898.15	BOC
10819	460164.70	2868067.02	898.11	BOC
10820	460158.70	2868067.19	898.01	BOC
10821	460156.09	2868067.26	898.46	BOC
10822	460146.38	2868077.72	898.20	BOC
10823	460147.01	2867906.98	897.50	BOC
10824	460144.62	2867908.84	897.48	BOC
10825	460182.58	2867934.95	898.32	EOSW
10826	460180.47	2867935.04	898.33	EOSW
10827	460179.59	2867921.07	898.12	EOSW
10828	460181.74	2867920.98	898.11	EOSW
10829	460161.27	2867910.19	897.63	EOSW
10830	460161.15	2867908.20	897.60	EOSW
10831	460142.37	2867922.85	897.48	EOSW
10832	460144.28	2867923.45	897.51	EOSW
10833	460141.42	2867930.02	897.65	EOSW
10834	460137.42	2867930.19	897.61	EOSW
10835	460143.41	2867929.94	897.68	EOSW
10836	460151.60	2867951.71	898.16	EOSW
10837	460153.33	2867948.10	898.21	EOSW
10838	460155.08	2867936.02	897.73	EOSW
10839	460155.38	2867946.82	898.23	EOSW
10840	460154.70	2867922.10	897.65	EOSW
10841	460162.70	2867921.77	897.72	EOSW
10842	460163.08	2867935.77	897.85	EOSW

5th Ave E Cont.				
Point #	Northing	Easting	Elevation	Description
10843	460163.38	2867946.60	898.35	EOSW
10844	460163.64	2867956.13	898.35	EOSW
10845	460163.42	2867948.13	898.35	EOSW
10846	460156.84	2867999.79	898.23	EOSW
10847	460157.25	2868014.53	898.23	EOSW
10848	460163.25	2868014.37	898.32	EOSW
10849	460165.25	2868014.31	898.35	EOSW
10850	460158.87	2868073.19	898.16	EOSW
10851	460164.86	2868073.02	898.25	EOSW
10852	460164.31	2868081.81	898.35	EOSW
10853	460159.11	2868081.95	898.22	EOSW
10854	460155.62	2867955.30	898.23	EOSW
10855	460164.84	2867999.57	898.35	EOSW
10856	460135.32	2867944.75	897.09	FL
10857	460137.13	2868010.49	897.50	FL
10858	460145.49	2868023.36	897.47	FL
10859	460146.64	2868065.02	897.64	FL
10860	460121.91	2867930.28	897.44	CL
10861	460122.32	2867945.10	897.47	CL
10862	460124.50	2868023.94	897.88	CL
10863	460128.17	2868053.87	897.86	CL
10864	460131.84	2868083.76	898.07	CL

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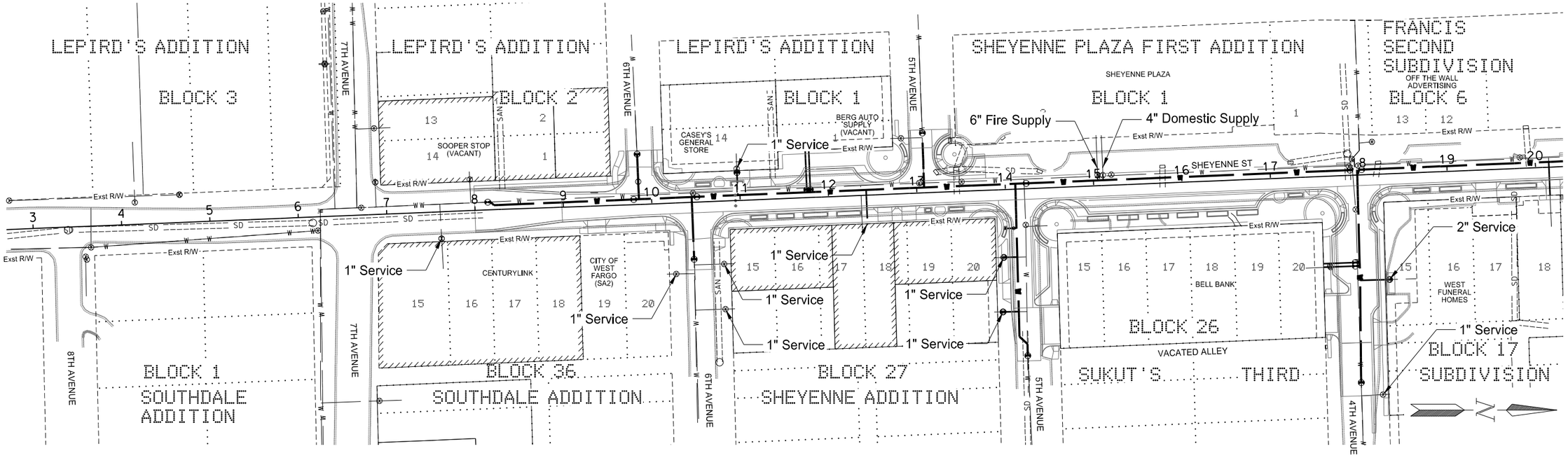
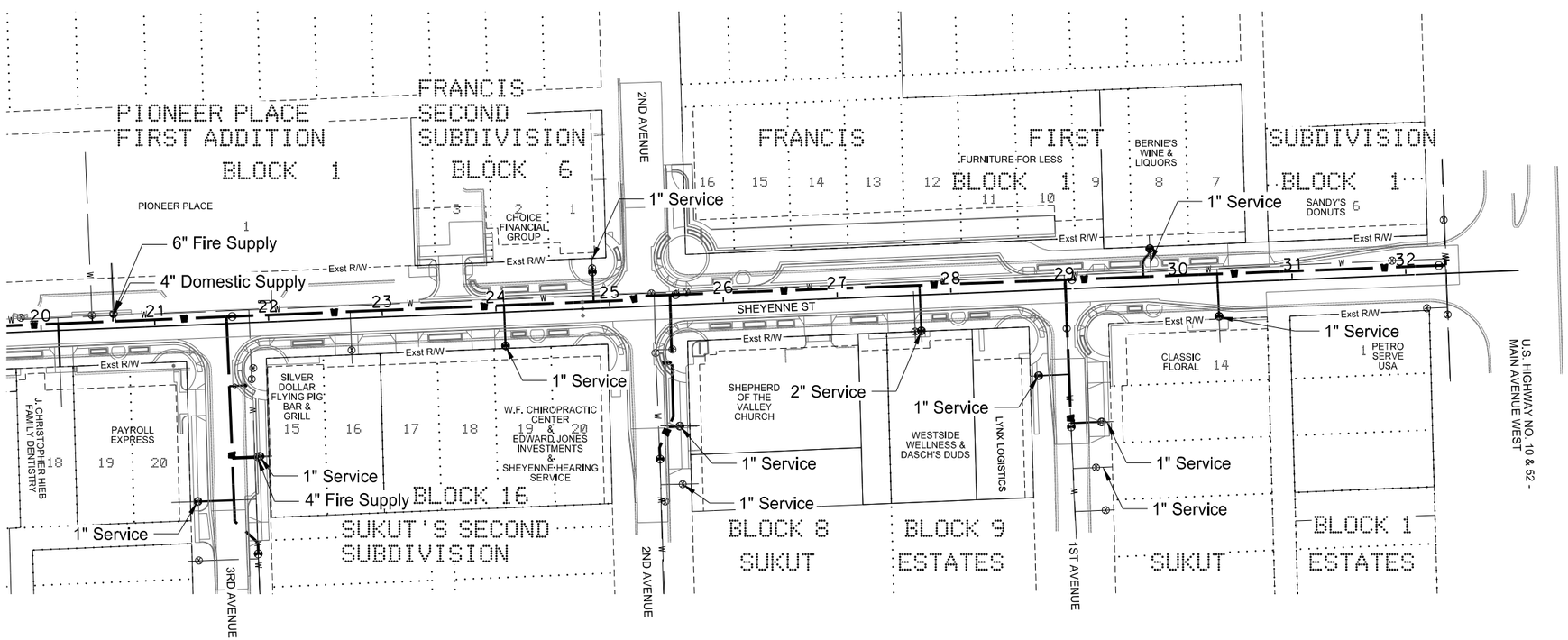
Sheyenne Street

ADA & Street Grading Points

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	26





Note:
Sheyenne street watermain separation from existing ACP watermain to new watermain is minimal and could be less than 4'.

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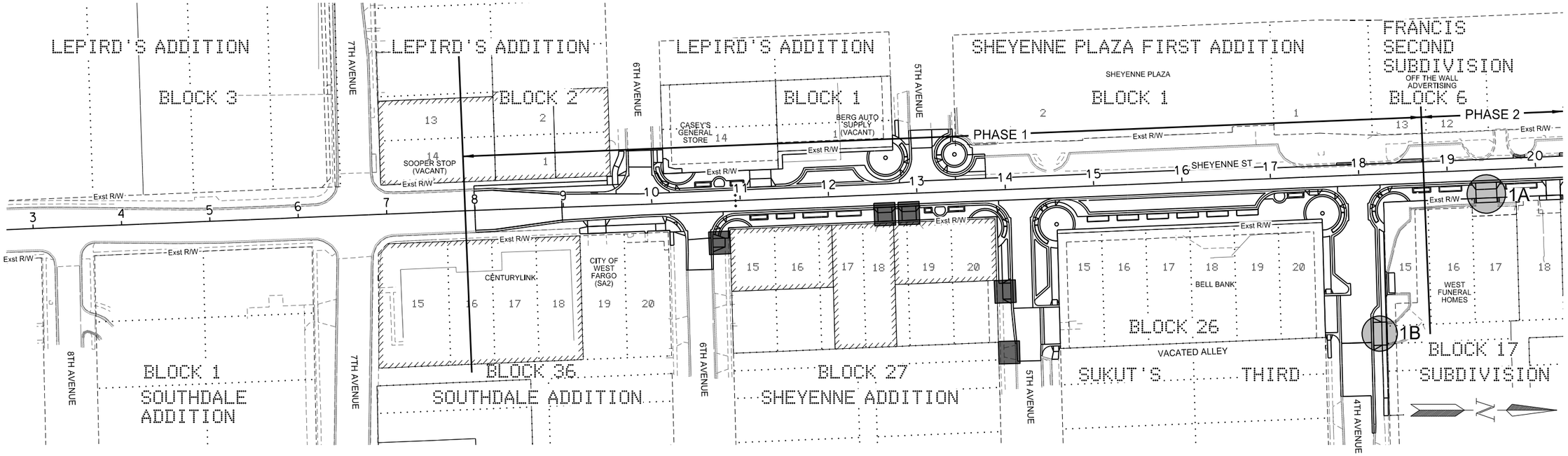
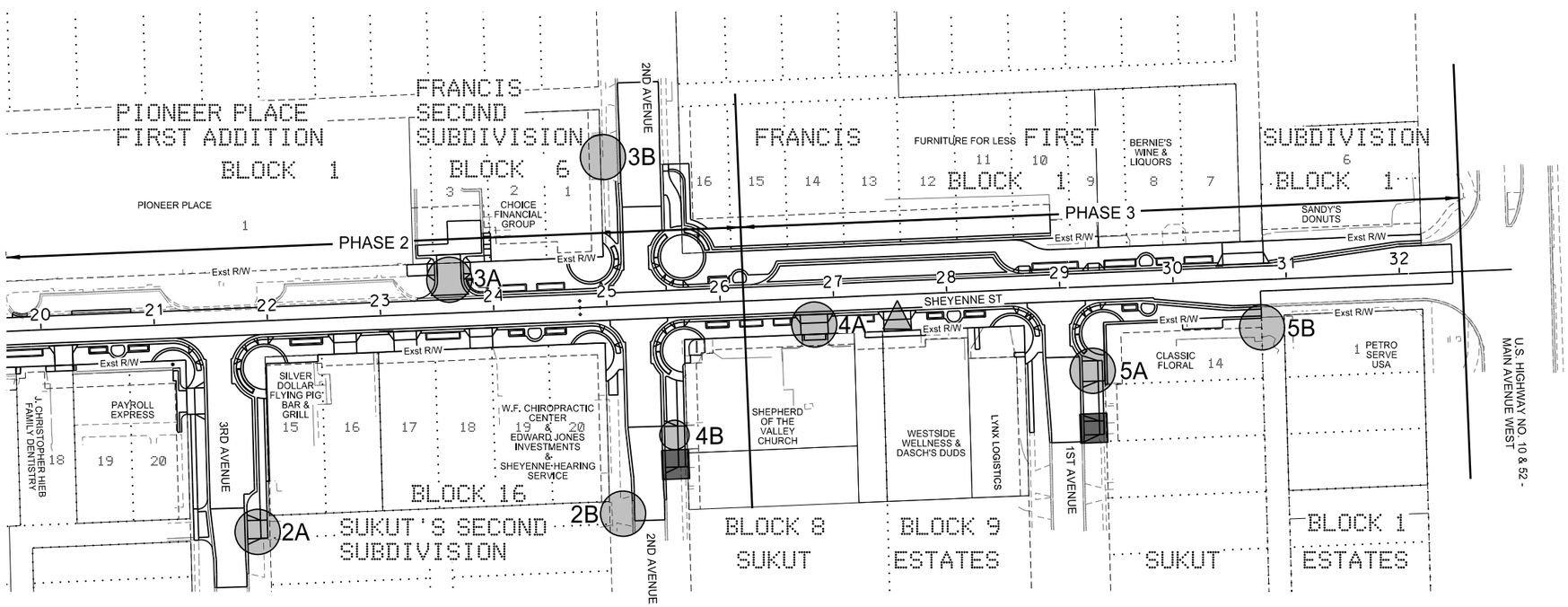
Sheyenne Street

General Details
Temporary Water Layout

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	20	27





LEGEND

- RESIDENTIAL DRIVEWAY - MAINTAIN ACCESS AT ALL TIMES
- #A COMMERCIAL DRIVEWAY TYPE 1 - MAINTAIN EITHER ACCESS A OR B AT ALL TIMES
- COMMERCIAL DRIVEWAY TYPE 2 - CONSTRUCT ACCESS IN PHASES MAINTAIN TRAFFIC AT ALL TIMES

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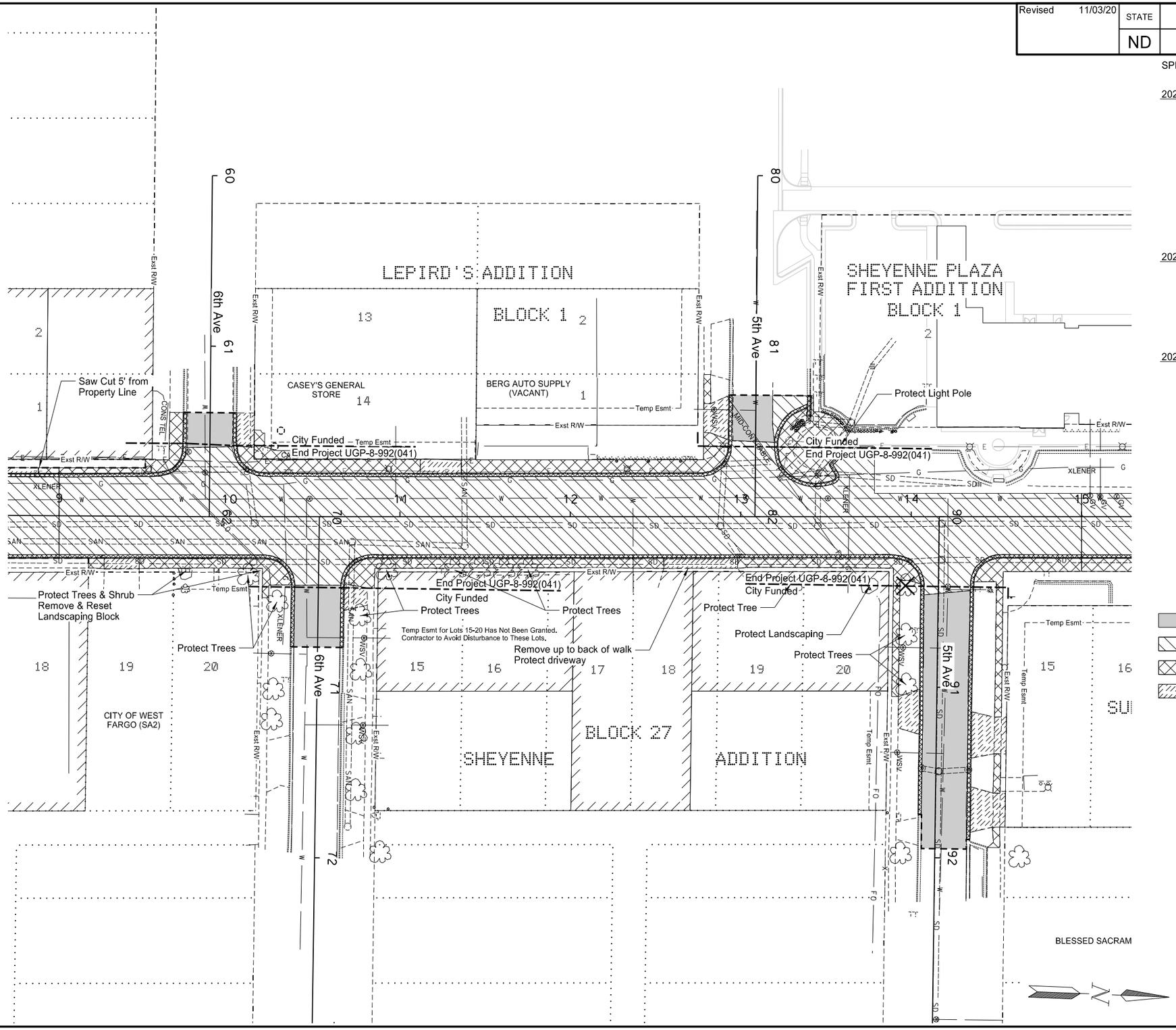
Sheyenne Street

General Details
Access Layout

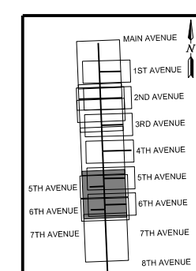
Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	40	2



SPEC	CODE	BID ITEM	QTY	UNIT
202	0114	REMOVAL OF CONCRETE PAVEMENT		
		Sta 9+00 to 15+00	3259	SY
		Sidewalks Sta 9+00 to 15+00	726	SY
		Driveways Sta 9+00 to 15+00	69	SY
		Driveways-6th Ave W Side (City Funded	23	SY
		Sidewalks-6th Ave W Side (City Funded	22	SY
		Driveways-6th Ave E Side (City Funded)	19	SY
		Sidewalks-6th Ave E Side (City Funded)	3	SY
		Driveways-5th Ave W Side (City Funded	33	SY
		Sidewalks-5th Ave W Side (City Funded	100	SY
		Driveways-5th Ave E Side (City Funded)	133	SY
		Sidewalks-5th Ave E Side (City Funded)	77	SY
202	0130	REMOVAL OF CURB & GUTTER		
		Sta 9+00 to 15+00 Lt	480	LF
		Sta 9+00 to 15+00 Rt	581	LF
		6th Ave W Side (City Funded)	37	LF
		6th Ave E Side (City Funded)	70	LF
		5th Ave W Side (City Funded)	74	LF
		5th Ave E Side (City Funded)	282	LF
202	0132	REMOVAL OF BITUMINOUS SURFACING		
		6th Ave W Slde (Clty Funded)	62	SY
		6th Ave E Side (City Funded)	106	SY
		5th Ave W Side (City Funded)	72	SY
		5th Ave E Side (City Funded)	447	SY

LEGEND

- REMOVAL OF BITUMINOUS SURFACING
- REMOVAL OF CONCRETE ROADWAY
- REMOVAL OF CONCRETE SIDEWALK
- REMOVAL OF CONCRETE DRIVEWAY
- REMOVAL OF CURB & GUTTER
- REMOVAL OF LANDSCAPING MATERIAL
- REMOVAL OF TREE/SHRUB
- PAVEMENT REMOVAL LIMITS



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Sheyenne Street

Removals

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	50	1

Manhole No.	ST- 1	60 IN
Sta.	8+09.77' - 5.8' Rt.	
Casting Style		(Y)
Rim Elev.		897.60
Base Elev.		891.85
Invert Elev.		892.26
Riser		4.00 FT
36 In.	Conduit	N 892.26
30 In.	Conduit	S 892.26

Manhole No.	ST- 2	96 IN
Sta.	8+21.63' - 8.0' Rt.	
Casting Style		(Y)
Rim Elev.		897.48
Base Elev.		883.11
Invert Elev.		883.57
Riser		12.62 FT
54 In.	Conduit	N 883.57
36 In.	Conduit	S 892.26

Manhole No.	ST- 3	96 IN
Sta.	10+13.06' - 7.8' Rt.	
Casting Style		(Z)
Rim Elev.		896.54
Base Elev.		883.94
Invert Elev.		884.40
Riser		10.47 FT
18 In.	Conduit	SE 891.37
54 In.	Conduit	N 886.72
54 In.	Conduit	S 884.40
24 In.	Conduit	W 892.16

Inlet No.	ST- 3A	
Sta.	10+07.93' - 14.3' Rt.	
Type	48 IN	Inlet Special-Type II
Grate Style		(A)
Grate Elev.		896.38
Base Elev.		891.05
Invert Elev.		891.45
H' Dist		4.00 FT
15 In.	Conduit	NE 891.45
18 In.	Conduit	NW 891.45

Inlet No.	ST- 3B	
Sta.	10+37.82' - 39.5' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.14
Base Elev.		891.31
Invert Elev.		892.4
H' Dist		4.00 FT
15 In.	Conduit	SW 892.40
15 In.	Conduit	N 892.40

Inlet No.	ST- 3C	
Sta.	10+67.47' - 35.8' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.24
Base Elev.		891.41
Invert Elev.		892.57
H' Dist		4.00 FT
15 In.	Conduit	NW 892.57
15 In.	Conduit	S 892.57

Inlet No.	ST- 3-1A	
Sta.	11+07.44' - 12.8' Lt.	
Type		Inlet -Type 2
Grate Style		(B)
Grate Elev.		896.66
Base Elev.		891.82
Invert Elev.		892.01
H' Dist		4.00 FT
15 In.	Conduit	SE 892.01

Inlet No.	ST- 3-1B	
Sta.	11+07.44' - 14.2' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.66
Base Elev.		891.82
Invert Elev.		892.01
H' Dist		4.00 FT
15 In.	Conduit	SE 892.01

Manhole No.	ST- 3-1	96 IN
Sta.	11+07' - 7.7' Rt.	
Casting Style		(Z)
Rim Elev.		896.85
Base Elev.		886.61
Invert Elev.		887.07
Riser		8.11 FT
54 In.	Conduit	S 887.07
54 In.	Conduit	N 887.07
15 In.	Conduit	W 891.81
15 In.	Conduit	E 891.94

Manhole No.	ST- 4	96 IN
Sta.	13+06.20' - 7.5' Rt.	
Casting Style		(Z)
Rim Elev.		897.25
Base Elev.		887.35
Invert Elev.		887.81
Riser		7.77 FT
15 In.	Conduit	E 890.71
54 In.	Conduit	S 887.81
54 In.	Conduit	N 887.81
15 In.	Conduit	W 891.83

Inlet No.	ST- 4A	
Sta.	81+57.11' - 14.5' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.87
Base Elev.		891.90
Invert Elev.		892.09
H' Dist		4.13 FT
15 In.	Conduit	E 892.09
15 In.	Conduit	N 892.09

Inlet No.	ST- 4B	(1) (3)
Sta.	81+13.54' - 4.20' Rt.	
Type		Inlet -Type 2 Double
Grate Style		(D)
Grate Elev.		897.01
Base Elev.		890.59
Invert Elev.		890.78
H' Dist		5.58 FT
15 In.	Conduit	W 890.78

Inlet No.	ST- 4C	
Sta.	81+57.39' - 12.0' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.92
Base Elev.		892.09
Invert Elev.		892.35
H' Dist		4.00 FT
15 In.	Conduit	S 892.35

Manhole No.	ST- 5	96 IN
Sta.	13+45.19' - 7.5' Rt.	
Casting Style		(Z)
Rim Elev.		897.52
Base Elev.		887.49
Invert Elev.		887.95
Riser		7.90 FT
24 In.	Conduit	W 892.90
54 In.	Conduit	N 887.95
54 In.	Conduit	S 887.95

Inlet No.	ST- 5A	
Sta.	13+45.75' - 18.1' Lt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.30
Base Elev.		892.47
Invert Elev.		892.93
H' Dist		4.00 FT
24 In.	Conduit	E 892.93
24 In.	Conduit	W 892.93

Manhole No.	ST- 6	96 IN
Sta.	14+22.89' - 7.5' Rt.	
Casting Style		(Z)
Rim Elev.		897.67
Base Elev.		887.75
Invert Elev.		888.21
Riser		7.79 FT
18 In.	Conduit	E 890.25
54 In.	Conduit	N 888.21
54 In.	Conduit	S 888.21

Manhole No.	ST- 7	96 IN
Sta.	15+77.85' - 7.0' Rt.	
Casting Style		(Z)
Rim Elev.		897.05
Base Elev.		888.26
Invert Elev.		888.72
Riser		6.66 FT
54 In.	Conduit	S 888.72
54 In.	Conduit	N 888.72
15 In.	Conduit	E 892.95
12 In.	Conduit	W 892.95

Inlet No.	ST- 7A	
Sta.	15+77.86' - 13.2' Rt.	
Type		Inlet -Type 2
Grate Style		(C)
Grate Elev.		896.88
Base Elev.		891.80
Invert Elev.		893.07
H' Dist		4.00 FT
15 In.	Conduit	W 893.07

Manhole No.	ST- 8	48 IN
Sta.	17+87.00' - 16.5' Rt.	
Casting Style		(Z)
Rim Elev.		896.76
Base Elev.		890.80
Invert Elev.		891.92
Riser		4.00 FT
18 In.	Conduit	W 891.92
15 In.	Conduit	E 891.92
15 In.	Conduit	S 891.92

Inlet No.	ST- 8A	
Sta.	17+34.51' - 13.6' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.58
Base Elev.		891.75
Invert Elev.		892.54
H' Dist		4.00 FT
15 In.	Conduit	N 892.54

Inlet No.	ST- 8B	
Sta.	17+85.28' - 42.4' Rt.	
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.43
Base Elev.		891.60
Invert Elev.		892.43
H' Dist		4.00 FT
15 In.	Conduit	W 892.43

Manhole No.	ST- 9	96 IN
Sta.	17+87.49' - 7.0' Rt.	
Casting Style		(Z)
Rim Elev.		896.98
Base Elev.		888.92
Invert Elev.		889.38
Riser		5.93 FT
54 In.	Conduit	S 889.38
54 In.	Conduit	N 889.38
18 In.	Conduit	E 891.73
18 In.	Conduit	W 891.5

Manhole No.	ST- 10	96 IN
Sta.	18+18.22' - 6.9' Rt.	
Casting Style		(Z)
Rim Elev.		896.90
Base Elev.		889.03
Invert Elev.		889.49
Riser		5.74 FT
54 In.	Conduit	S 889.49
48 In.	Conduit	N 889.49
12 In.	Conduit	W 892.74
15 In.	Conduit	E 891.48

Code	Manhole Casting Style	Casting Thickness
(Y)	Neenah R-1733	7
	East Jordan 1205	
(Z)	Neenah R-1955-1	11.5
	East Jordan 3025 SELF LEVEL	

Code	Inlet Casting / Grate Style	Casting Thickness
(A)	Neenah R-3067-C (2" Radius Curb Box)	4
	East Jordan 7030-M2 (T1 Back)	
(B)	Neenah R-3067-C	4
	East Jordan 7030-M2	
(C)	Neenah R-3347-A	6
(D)	Neenah R-3295-2	4
	East Jordan 7031	

(1) Structure has offset penetration
(2) Slotted drain connected to structure
(3) 3IN tall hood required

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Sheyenne Street

Inlet and Manhole Summary

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	50	2

Manhole No.	ST- 10-1	60 IN
Sta.		18+17' - 16.3' Rt.
Casting Style		(Z)
Rim Elev.		896.65
Base Elev.		890.53
Invert Elev.		891.58
Riser		4.00 FT
18 In.	Conduit	W 891.58
15 In.	Conduit	E 891.58
15 In.	Conduit	N 891.58

Inlet No.	ST- 10-1A	
Sta.		18+40' - 13.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.58
Base Elev.		891.75
Invert Elev.		892.55
H' Dist		4.00 FT
15 In.	Conduit	S 892.55

Manhole No.	ST- 11	84 IN
Sta.		19+71.00' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.80
Base Elev.		888.62
Invert Elev.		890.04
Riser		6.05 FT
48 In.	Conduit	S 890.04
48 In.	Conduit	N 890.04
12 In.	Conduit	E 891.48

Manhole No.	ST- 12	84 IN
Sta.		19+92.76' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.71
Base Elev.		888.70
Invert Elev.		890.12
Riser		5.88 FT
48 In.	Conduit	S 890.12
36 In.	Conduit	N 890.12
24 In.	Conduit	W 891.92

Manhole No.	ST- 12-1	60 IN
Sta.		21+13.15' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.23
Base Elev.		890.11
Invert Elev.		890.52
Riser		4.00 FT
36 In.	Conduit	S 890.52
36 In.	Conduit	N 890.52
15 In.	Conduit	E 891.71

Inlet No.	ST- 12-1A	
Sta.		21+13.15' - 13.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.00
Base Elev.		891.17
Invert Elev.		892
H' Dist		4.00 FT
15 In.	Conduit	W 892.00

Manhole No.	ST- 13	84 IN
Sta.		21+41.69' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.16
Base Elev.		890.04
Invert Elev.		890.61
Riser		4.00 FT
36 In.	Conduit	S 890.61
12 In.	Conduit	W 891.76
36 In.	Conduit	N 890.61
24 In.	Conduit	E 891.00

Manhole No.	ST- 14	60 IN
Sta.		22+06.66' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		896.45
Base Elev.		890.33
Invert Elev.		890.77
Riser		4.00 FT
15 In.	Conduit	E 892.00
36 In.	Conduit	N 890.77
36 In.	Conduit	S 890.77

Manhole No.	ST- 14-1	60 IN
Sta.		22+97' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		897.08
Base Elev.		890.67
Invert Elev.		891.00
Riser		4.29 FT
36 In.	Conduit	S 891.00
36 In.	Conduit	N 891.00
15 In.	Conduit	E 892.69

Inlet No.	ST- 14A (3)	
Sta.		22+06.66' - 13.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.21
Base Elev.		891.38
Invert Elev.		892.15
H' Dist		4.00 FT
15 In.	Conduit	W 892.15

Inlet No.	ST- 14-1A(2) (3)	
Sta.		22+97' - 13.5' Lt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.85
Base Elev.		892.02
Invert Elev.		892.75
H' Dist		4.00 FT
15 In.	Conduit	W 892.75

Manhole No.	ST- 15	60 IN
Sta.		23+91.26' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		897.68
Base Elev.		890.91
Invert Elev.		891.24
Riser		4.65 FT
36 In.	Conduit	N 891.24
36 In.	Conduit	S 891.24
15 In.	Conduit	W 892.00

Manhole No.	ST- 16	72 IN
Sta.		24+91.63' - 7.0' Rt.
Casting Style		(Z)
Rim Elev.		897.23
Base Elev.		891.11
Invert Elev.		891.49
Riser		4.00 FT
36 In.	Conduit	S 891.49
36 In.	Conduit	N 891.49
15 In.	Conduit	W 892.24
15 In.	Conduit	E 892.26

Inlet No.	ST- 16A	
Sta.		24+91.13' - 13.9' Lt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.10
Base Elev.		892.26
Invert Elev.		892.45
H' Dist		4.00 FT
15 In.	Conduit	E 892.45

Inlet No.	ST- 16B	
Sta.		24+91.11' - 14.1' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.98
Base Elev.		892.14
Invert Elev.		892.33
H' Dist		4.00 FT
15 In.	Conduit	W 892.33

Manhole No.	ST- 17	72 IN
Sta.		130+21.55' - 8.7' Lt.
Casting Style		(Z)
Rim Elev.		895.68
Base Elev.		889.56
Invert Elev.		891.6
Riser		4.00 FT
24 In.	Conduit	E 891.70
36 In.	Conduit	S 891.60
18 In.	Conduit	W 892.00

Manhole No.	ST- 18	48 IN
Sta.		130+61.75' - 8.4' Lt.
Casting Style		(Z)
Rim Elev.		896.97
Base Elev.		891.01
Invert Elev.		891.9
Riser		4.00 FT
15 In.	Conduit	S 892.00
15 In.	Conduit	N 892.58
24 In.	Conduit	W 891.90
18 In.	Conduit	E 892.00

Inlet No.	ST- 18A	
Sta.		130+61.16' - 12.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.72
Base Elev.		891.89
Invert Elev.		892.22
H' Dist		4.00 FT
15 In.	Conduit	N 892.22

Inlet No.	ST- 18B	
Sta.		130+62.10' - 20.5' Lt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		896.72
Base Elev.		891.89
Invert Elev.		892.72
H' Dist		4.00 FT
15 In.	Conduit	S 892.72

Manhole No.	ST- 19	84 IN
Sta.		130+02.93' - 12.9' Lt.
Casting Style		(Z)
Rim Elev.		897.56
Base Elev.		890.76
Invert Elev.		891.03
Riser		4.68 FT
18 In.	Conduit	E 892.00
18 In.	Conduit	W 891.03
27 In.	Conduit	N 891.03

Manhole No.	ST- 20	48 IN
Sta.		122+33.15' - 7.4' Lt.
Casting Style		(Z)
Rim Elev.		897.85
Base Elev.		891.61
Invert Elev.		891.82
Riser		4.28 FT
15 In.	Conduit	N 893.34
15 In.	Conduit	S 893.34
18 In.	Conduit	E 891.82
18 In.	Conduit	W 891.82

Inlet No.	ST- 20A	
Sta.		122+33.15' - 12.5' Rt.
Type		Inlet -Type 2
Grate Style		(A)
Grate Elev.		897.54
Base Elev.		892.71
Invert Elev.		893.54
H' Dist		4.00 FT
15 In.	Conduit	N 893.54

Code	Manhole Casting Style	Casting Thickness
(Y)	Neenah R-1733	7
	East Jordan 1205	
(Z)	Neenah R-1955-1	11.5
	East Jordan 3025 SELF LEVEL	

Code	Inlet Casting / Grate Style	Casting Thickness
(A)	Neenah R-3067-C (2" Radius Curb Box)	4
	East Jordan 7030-M2 (T1 Back)	
(B)	Neenah R-3067-C	4
	East Jordan 7030-M2	
(C)	Neenah R-3347-A	6
(D)	Neenah R-3295-2	4
	East Jordan 7031	

(1) Structure has offset penetration
(2) Slotted drain connected to structure
(3) 3IN tall hood required

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Sheyenne Street

Inlet and Manhole Summary

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	50	3

Inlet No.	ST- 20B	
Sta.	122+33.15' - 25' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	897.52	
Base Elev.	892.69	
Invert Elev.	893.52	
H' Dist	4.00 FT	
15 In.	Conduit	S 893.52
15 In.	Conduit	N 893.52

Inlet No.	ST- 21C	
Sta.	25+97.66' - 47.1' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.89	
Base Elev.	894.05	
Invert Elev.	894.24	
H' Dist	4.00 FT	
15 In.	Conduit	SE 894.24

Inlet No.	ST- 24A	
Sta.	28+23.58' - 47.1' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.63	
Base Elev.	893.44	
Invert Elev.	893.63	
H' Dist	4.35 FT	
15 In.	Conduit	E 893.63

Manhole No.	ST- 26-1	60 IN
Sta.	30+44.41' - 5.2' Rt.	
Casting Style	(Z)	
Rim Elev.	900.44	
Base Elev.	889.42	
Invert Elev.	889.73	
Riser	8.90 FT	
33 In.	Conduit	S 889.73
33 In.	Conduit	N 889.73
15 In.	Conduit	SW 895.28
15 In.	Conduit	E 895.49

Inlet No.	ST- 27B (3)	
Sta.	61+55.79' - 14.5' Lt.	
Type	48 IN	Inlet Special-Type II
Grate Style	(B)	
Grate Elev.	896.51	
Base Elev.	891.18	
Invert Elev.	892.4	
H' Dist	4.00 FT	
24 In.	Conduit	E 892.40
18 In.	Conduit	S 892.40

Inlet No.	ST- 20C	
Sta.	122+29.00' - 44' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.74	
Base Elev.	893.91	
Invert Elev.	894.74	
H' Dist	4.00 FT	
15 In.	Conduit	S 894.74

Manhole No.	ST- 22	60 IN
Sta.	27+07.04' - 4.9' Rt.	
Casting Style	(Z)	
Rim Elev.	897.98	
Base Elev.	890.06	
Invert Elev.	890.33	
Riser	5.80 FT	
12 In.	Conduit	E 892.00
27 In.	Conduit	S 890.33
27 In.	Conduit	N 890.33

Manhole No.	ST- 25	60 IN
Sta.	28+93.98' - 5.3' Rt.	
Casting Style	(Z)	
Rim Elev.	898.66	
Base Elev.	889.65	
Invert Elev.	889.96	
Riser	6.89 FT	
18 In.	Conduit	E 891.54
33 In.	Conduit	S 889.96
33 In.	Conduit	N 889.96

Inlet No.	ST- 26-1A (2)	
Sta.	30+36.61' - 13.5' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	900.13	
Base Elev.	895.29	
Invert Elev.	895.48	
H' Dist	4.00 FT	
15 In.	Conduit	NE 895.48

Inlet No.	ST- 27C	
Sta.	61+55.00' - 13.8' Rt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	896.88	
Base Elev.	892.05	
Invert Elev.	892.62	
H' Dist	4.00 FT	
18 In.	Conduit	N 892.62

Manhole No.	ST- 21	60 IN
Sta.	25+74.66' - 3.5' Rt.	
Casting Style	(Z)	
Rim Elev.	897.73	
Base Elev.	890.60	
Invert Elev.	890.87	
Riser	5.01 FT	
15 In.	Conduit	W 893.18
27 In.	Conduit	S 890.87
27 In.	Conduit	N 890.87
15 In.	Conduit	E 893.18

Inlet No.	ST- 23A	
Sta.	27+36.77' - 14.0' Lt.	
Type	Inlet -Type 2 Double	
Grate Style	(D)	
Grate Elev.	897.65	
Base Elev.	892.57	
Invert Elev.	893.67	
H' Dist	4.25 FT	
15 In.	Conduit	SE 893.67

Manhole No.	ST- 26	60 IN
Sta.	29+44' - 5.4' Rt.	
Casting Style	(Z)	
Rim Elev.	899.02	
Base Elev.	889.58	
Invert Elev.	889.89	
Riser	7.32 FT	
15 In.	Conduit	W 893.92
15 In.	Conduit	E 894.09
33 In.	Conduit	S 889.89
33 In.	Conduit	N 889.89

Inlet No.	ST- 26-1B	
Sta.	30+44.40' - 22.5' Rt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	900.03	
Base Elev.	895.20	
Invert Elev.	895.66	
H' Dist	4.00 FT	
15 In.	Conduit	W 895.66

Inlet No.	ST- 27D (2)	
Sta.	61+85.11' - 46.4' Rt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	896.62	
Base Elev.	891.79	
Invert Elev.	892.83	
H' Dist	4.00 FT	
15 In.	Conduit	N 892.83

Inlet No.	ST- 21A	
Sta.	25+74.64' - 13.5' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	897.50	
Base Elev.	892.62	
Invert Elev.	892.81	
H' Dist	4.04 FT	
15 In.	Conduit	E 892.81

Inlet No.	ST- 23B	
Sta.	27+34.02' - 13.5' Rt.	
Type	Inlet -Type 2 Double	
Grate Style	(D)	
Grate Elev.	897.59	
Base Elev.	892.76	
Invert Elev.	893.59	
H' Dist	4.00 FT	
15 In.	Conduit	SW 893.59

Inlet No.	ST- 26A	
Sta.	29+44.29' - 13.5' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.80	
Base Elev.	893.92	
Invert Elev.	894.11	
H' Dist	4.04 FT	
15 In.	Conduit	SW 894.11
15 In.	Conduit	E 894.1

Manhole No.	ST- 27	60 IN
Sta.	61+84.00' - 19.8' Lt.	
Casting Style	(Z)	
Rim Elev.	896.47	
Base Elev.	890.35	
Invert Elev.	892.28	
Riser	4.00 FT	
24 In.	Conduit	E 892.28
24 In.	Conduit	W 892.28
15 In.	Conduit	N 892.28
15 In.	Conduit	S 892.28

Inlet No.	ST- 21B	
Sta.	25+74.66' - 13.5' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	897.39	
Base Elev.	892.56	
Invert Elev.	893.37	
H' Dist	4.00 FT	
15 In.	Conduit	W 893.37

Manhole No.	ST- 24	60 IN
Sta.	28+23.54' - 5.3' Rt.	
Casting Style	(Z)	
Rim Elev.	898.37	
Base Elev.	889.76	
Invert Elev.	890.07	
Riser	6.49 FT	
15 In.	Conduit	W 891.29
33 In.	Conduit	S 890.07
33 In.	Conduit	N 890.07

Inlet No.	ST- 26B	
Sta.	29+43.60' - 13.5' Rt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	898.82	
Base Elev.	893.98	
Invert Elev.	894.17	
H' Dist	4.00 FT	
15 In.	Conduit	W 894.17

Inlet No.	ST- 27A	
Sta.	61+86.08' - 47.6' Lt.	
Type	Inlet -Type 2	
Grate Style	(A)	
Grate Elev.	896.31	
Base Elev.	891.48	
Invert Elev.	892.56	
H' Dist	4.00 FT	
15 In.	Conduit	S 892.56

Code	Manhole Casting Style	Casting Thickness
(Y)	Neenah R-1733	7
	East Jordan 1205	
(Z)	Neenah R-1955-1	11.5
	East Jordan 3025 SELF LEVEL	

Code	Inlet Casting / Grate Style	Casting Thickness
(A)	Neenah R-3067-C (2" Radius Curb Box)	4
	East Jordan 7030-M2 (T1 Back)	
(B)	Neenah R-3067-C	4
	East Jordan 7030-M2	
(C)	Neenah R-3347-A	6
(D)	Neenah R-3295-2	4
	East Jordan 7031	

(1) Structure has offset penetration
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Inlet and Manhole Summary

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	50	4

Manhole No.	ST- 28			60 IN
Sta.				90+45.46' - 6.5' Lt.
Casting Style				(Z)
Rim Elev.				897.29
Base Elev.				890.54
Invert Elev.				890.75
Riser				4.62 FT
	15 In.	Conduit	NW	892.85
	15 In.	Conduit	SE	893.00
	18 In.	Conduit	W	890.75
	18 In.	Conduit	E	891.72

Manhole No.	ST- 30			48 IN
Sta.				91+60.48' - 1.7' Lt.
Casting Style				(Y)
Rim Elev.				897.92
Base Elev.				892.34
Invert Elev.				892.8
Riser				4.00 FT
	18 In.	Conduit	W	892.80
	15 In.	Conduit	S	892.98
	18 In.	Conduit	E	893.35

Inlet No.	ST- 32A			
Sta.				101+14.58' - 31.1' Lt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				897.61
Base Elev.				892.78
Invert Elev.				893.11
H' Dist				4.00 FT
	15 In.	Conduit	S	893.11

Inlet No.	ST- 33B			
Sta.				110+44.68' - 35.0' Rt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				896.78
Base Elev.				891.95
Invert Elev.				892.78
H' Dist				4.00 FT
	15 In.	Conduit	N	892.78

Inlet No.	ST- 35A			
Sta.				111+30.98' - 12.5' Rt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				896.30
Base Elev.				891.47
Invert Elev.				892.3
H' Dist				4.00 FT
	15 In.	Conduit	N	892.30

Inlet No.	ST- 28A			
Sta.				90+42.17' - 12.5' Lt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				897.09
Base Elev.				892.26
Invert Elev.				893.09
H' Dist				4.00 FT
	15 In.	Conduit	SE	893.09

Inlet No.	ST- 30A			
Sta.				91+64.78' - 10.3' Lt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				897.30
Base Elev.				892.47
Invert Elev.				893.3
H' Dist				4.00 FT
	15 In.	Conduit	N	893.30

Inlet No.	ST- 32B			
Sta.				101+08.77' - 30.0' Rt.
Type	48 IN			Inlet Special-Type II
Grate Style				(A)
Grate Elev.				896.43
Base Elev.				891.10
Invert Elev.				892.54
H' Dist				4.00 FT
	15 In.	Conduit	N	892.54
	15 In.	Conduit	E	892.54

Inlet No.	ST- 33C			
Sta.				110+43' - 12.6' Lt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				895.74
Base Elev.				890.91
Invert Elev.				891.74
H' Dist				4.00 FT
	15 In.	Conduit	S	891.74

Inlet No.	ST- 35B			
Sta.				111+99.00' - 9.4' Rt.
Type	60 IN			Inlet Special-Type II
Grate Style				(A)
Grate Elev.				896.17
Base Elev.				890.67
Invert Elev.				891.97
H' Dist				4.00 FT
	24 In.	Conduit	N	891.97
	24 In.	Conduit	W	891.97

Inlet No.	ST- 28B			
Sta.				90+55.88' - 12.5' Rt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				897.16
Base Elev.				892.33
Invert Elev.				893.16
H' Dist				4.00 FT
	15 In.	Conduit	NW	893.16

Manhole No.	ST- 31			48 IN
Sta.				100+61.58' - 11.0' Lt.
Casting Style				(Z)
Rim Elev.				896.71
Base Elev.				890.75
Invert Elev.				892.04
Riser				4.00 FT
	15 In.	Conduit	N	892.35
	15 In.	Conduit	W	892.04
	15 In.	Conduit	E	892.04

Inlet No.	ST- 32C			
Sta.				101+33.96' - 25.0' Rt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				896.82
Base Elev.				891.99
Invert Elev.				892.82
H' Dist				4.00 FT
	15 In.	Conduit	W	892.82
	15 In.	Conduit	S	892.82

Manhole No.	ST- 34			48 IN
Sta.				110+89.09' - 5.5' Rt.
Casting Style				(Z)
Rim Elev.				896.65
Base Elev.				890.69
Invert Elev.				891.42
Riser				4.00 FT
	15 In.	Conduit	N	891.50
	24 In.	Conduit	E	891.42
	24 In.	Conduit	W	891.42

Inlet No.	ST- 35C			
Sta.				111+98.75' - 20.5' Lt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				896.12
Base Elev.				891.29
Invert Elev.				892.12
H' Dist				4.00 FT
	24 In.	Conduit	S	892.12

Manhole No.	ST- 29			48 IN
Sta.				91+33.16' - 6.5' Lt.
Casting Style				(Z)
Rim Elev.				897.74
Base Elev.				891.78
Invert Elev.				892.21
Riser				4.00 FT
	18 In.	Conduit	W	892.21
	15 In.	Conduit	N	893.19
	18 In.	Conduit	E	892.51

Inlet No.	ST- 31A			
Sta.				100+61.58' - 20.0' Lt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				896.35
Base Elev.				891.52
Invert Elev.				892.17
H' Dist				4.00 FT
	15 In.	Conduit	S	892.17

Manhole No.	ST- 33			60 IN
Sta.				110+43.78' - 5.5' Rt.
Casting Style				(Z)
Rim Elev.				895.97
Base Elev.				889.85
Invert Elev.				891.19
Riser				4.00 FT
	15 In.	Conduit	N	891.19
	24 In.	Conduit	E	891.19
	24 In.	Conduit	W	891.19
	15 In.	Conduit	S	891.60

Inlet No.	ST- 34A			
Sta.				110+89.09' - 30.0' Lt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				895.86
Base Elev.				891.03
Invert Elev.				891.86
H' Dist				4.00 FT
	15 In.	Conduit	S	891.86

Inlet No.	ST- 29A			
Sta.				91+33.16' - 21.0' Lt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				897.47
Base Elev.				892.64
Invert Elev.				893.47
H' Dist				4.00 FT
	15 In.	Conduit	S	893.47
	15 In.	Conduit	N	893.47

Manhole No.	ST- 32			48 IN
Sta.				101+14.58' - 11.0' Lt.
Casting Style				(Z)
Rim Elev.				896.86
Base Elev.				890.90
Invert Elev.				892.31
Riser				4.00 FT
	15 In.	Conduit	N	892.31
	15 In.	Conduit	W	892.31
	15 In.	Conduit	S	892.3

Inlet No.	ST- 33A			
Sta.				110+43.78' - 12.5' Rt.
Type				Inlet -Type 2
Grate Style				(A)
Grate Elev.				895.74
Base Elev.				890.91
Invert Elev.				891.74
H' Dist				4.00 FT
	15 In.	Conduit	N	891.74
	15 In.	Conduit	S	891.74

Manhole No.	ST- 35			48 IN
Sta.				111+30.98' - 5.5' Rt.
Casting Style				(Z)
Rim Elev.				896.50
Base Elev.				890.54
Invert Elev.				891.63
Riser				4.00 FT
	15 In.	Conduit	S	892.02
	24 In.	Conduit	E	891.63
	24 In.	Conduit	W	891.63

Code	Manhole Casting Style	Casting Thickness
(Y)	Neenah R-1733	7
	East Jordan 1205	
(Z)	Neenah R-1955-1	11.5
	East Jordan 3025 SELF LEVEL	

Code	Inlet Casting / Grate Style	Casting Thickness
(A)	Neenah R-3067-C (2" Radius Curb Box)	4
	East Jordan 7030-M2 (T1 Back)	
(B)	Neenah R-3067-C	4
	East Jordan 7030-M2	
(C)	Neenah R-3347-A	6
(D)	Neenah R-3295-2	4
	East Jordan 7031	

(1) Structure has offset penetration
(2) Slotted drain connected to structure
(3) 3IN tall hood required

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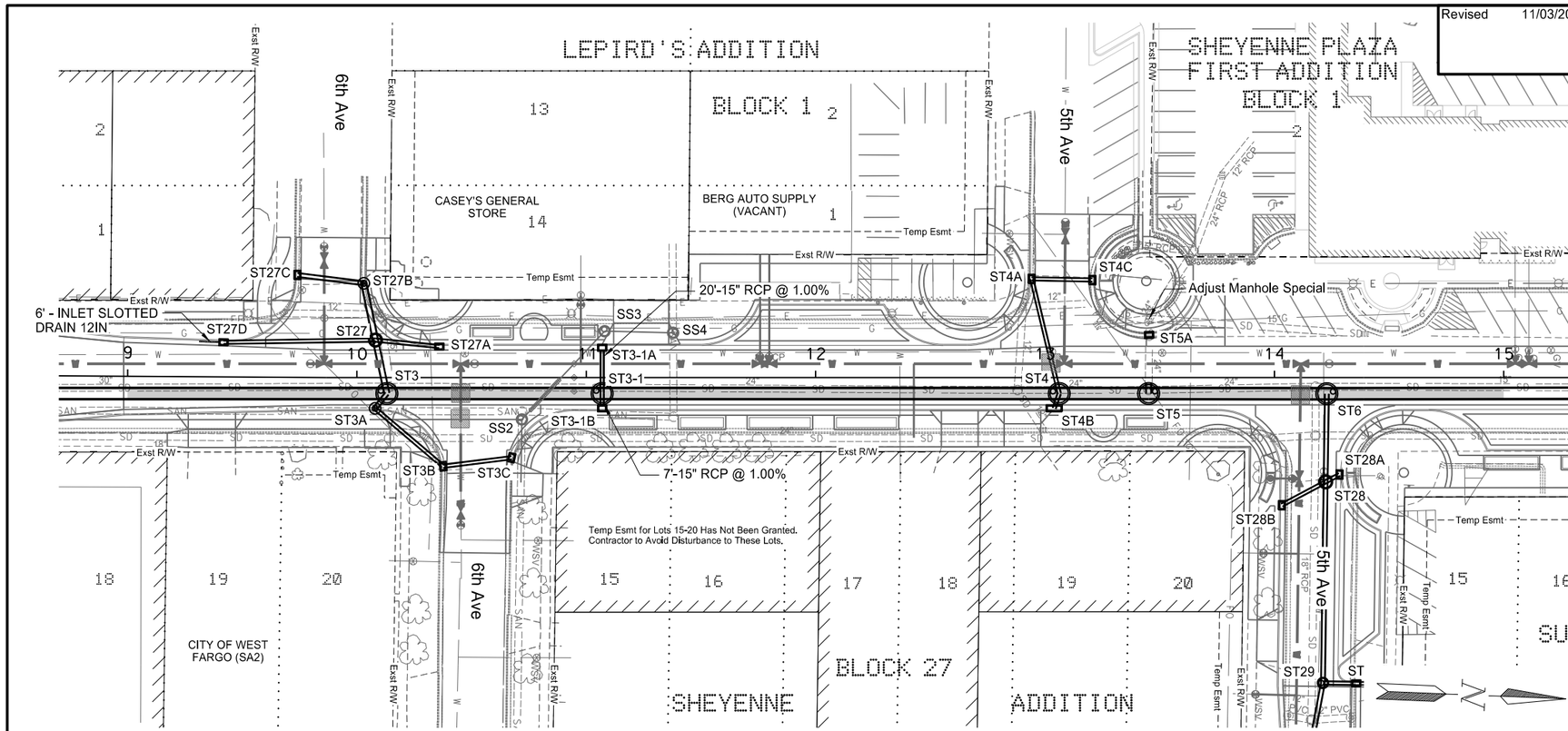
Sheyenne Street

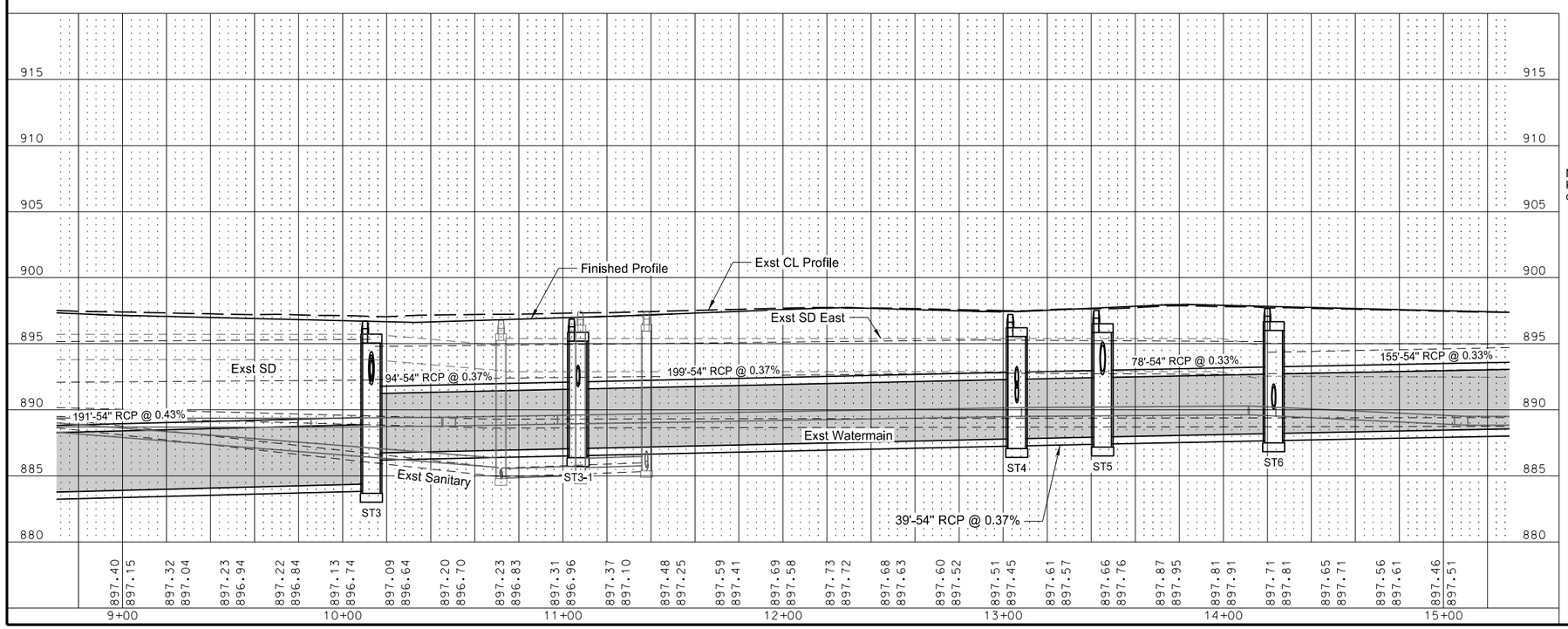
Inlet and Manhole Summary

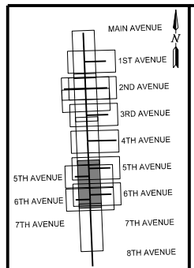
Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	55	2



SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL-III STORM DRAIN		
		ST3-1A to ST3-1	20	LF
		ST3-1 to ST3-1B	7	LF
714	1212	PIPE CONC REINF 54IN CL-III STORM DRAIN		
		Sta 9+00 8.43' Rt to ST3	114	LF
		ST3 to ST3-1	94	LF
		ST3-1 to ST4	199	LF
		ST4 to ST5	39	LF
		ST5 to ST6	78	LF
		ST6 to STA 15+00 7.72' Rt	76	LF
722	0140	MANHOLE 96IN		
		ST3, ST3-1, ST4, ST5, ST6	5	EA
722	1140	MANHOLE RISER 96IN		
		ST3, ST3-1, ST4, ST5, ST6	42.0	LF
722	3510	INLET-TYPE 2		
		ST3-1A, ST3-1B, ST5A	3	EA
722	6201	ADJUST MANHOLE SPECIAL		
		Sta 13+45 25.1' Lt	1	EA

NOTE:
Keep manhole castings out of wheel path.





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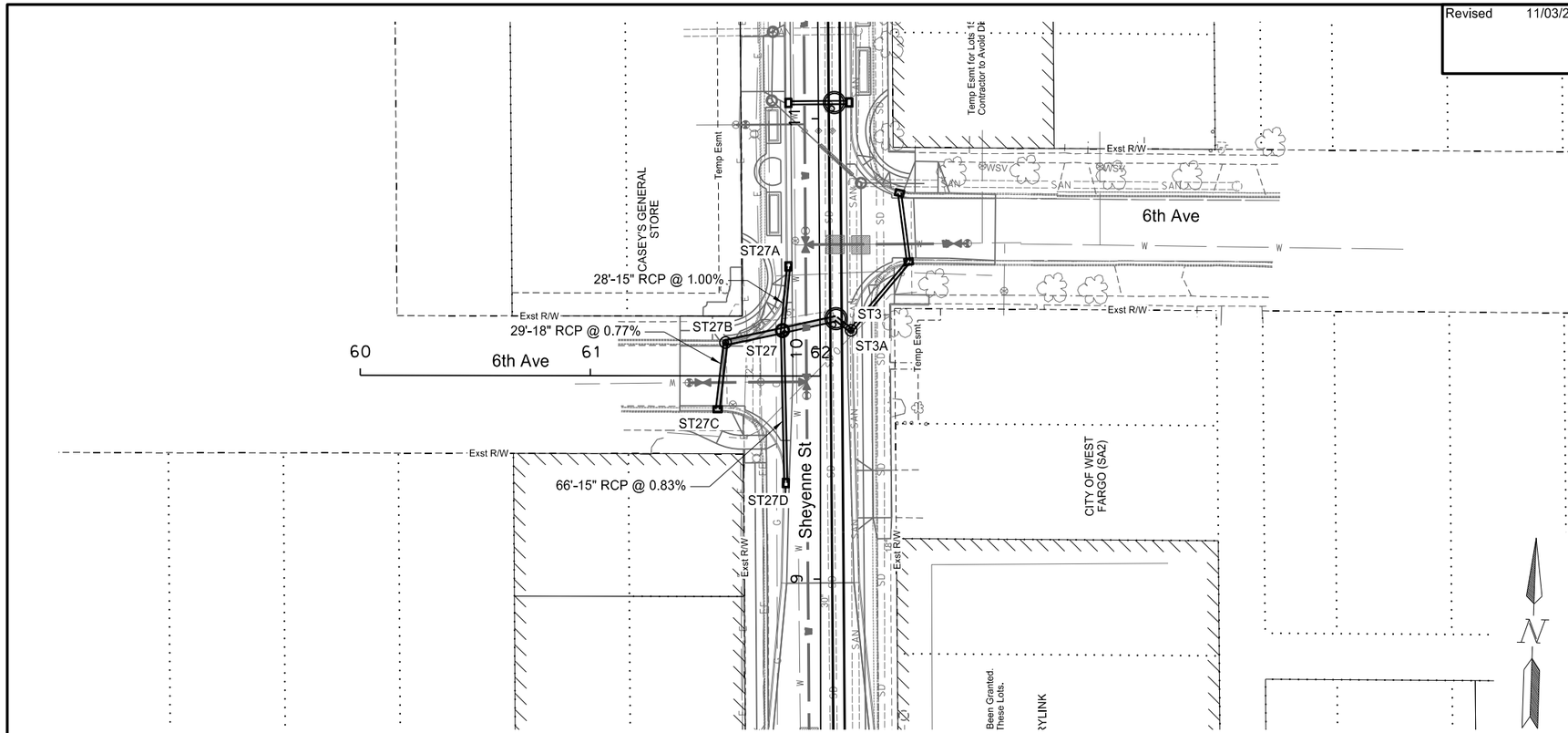
Sheyenne Street

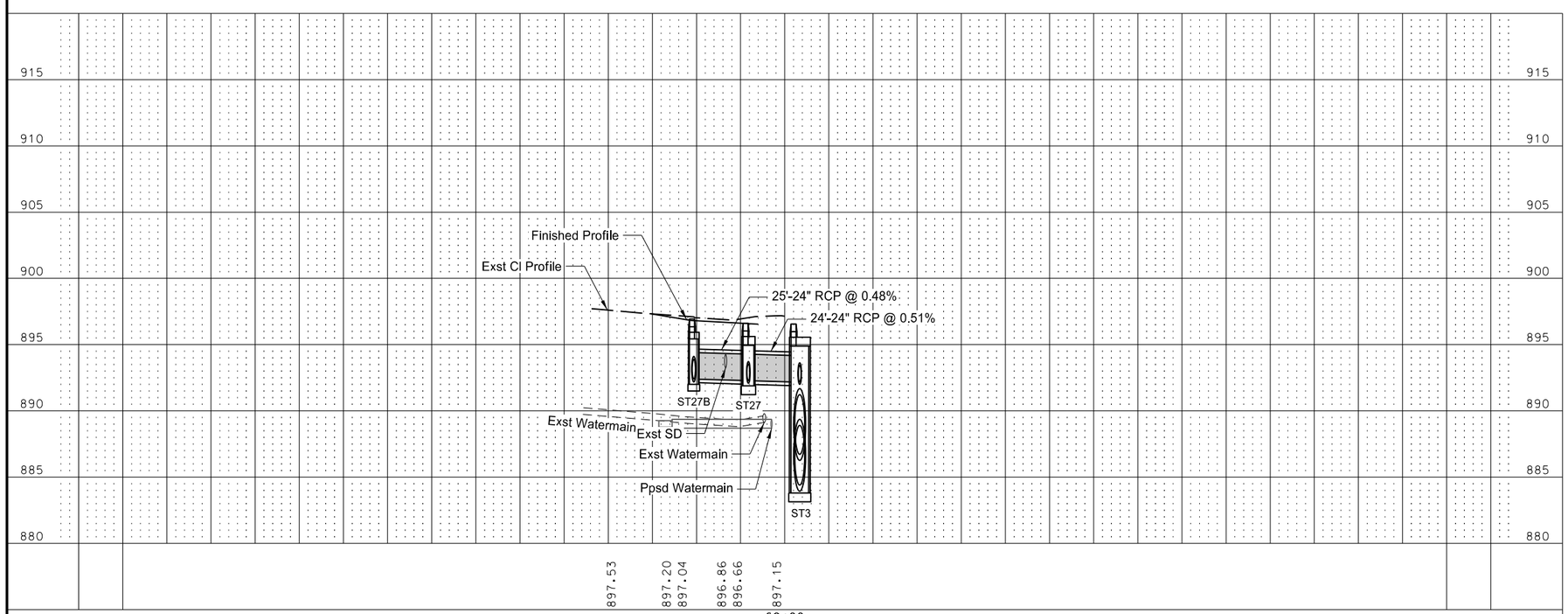
Drainage Layout

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

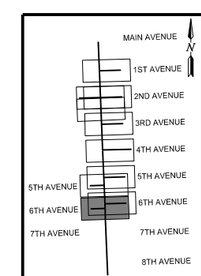
Revised	11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	UGP-8-992(041)	55	6



SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST27 to ST27A	28	LF
		ST27 to ST27D	66	LF
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN		
		ST27B to ST27C	29	LF
714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN		
		ST3 to ST27	24	LF
		ST27 to ST27B	25	LF
722	0110	MANHOLE 60IN		
		ST27	1	EA
722	1110	MANHOLE RISER 60IN		
		ST27	4.0	LF
722	3510	INLET-TYPE 2		
		ST27A, ST27C, ST27D	3	EA
722	3701	INLET SPECIAL-TYPE 2 48IN		
		ST27B	1	EA
722	3900	INLET SLOTTED DRAIN 12IN		
		ST27D	6	LF



NOTE:
Keep manhole castings out of wheel path.



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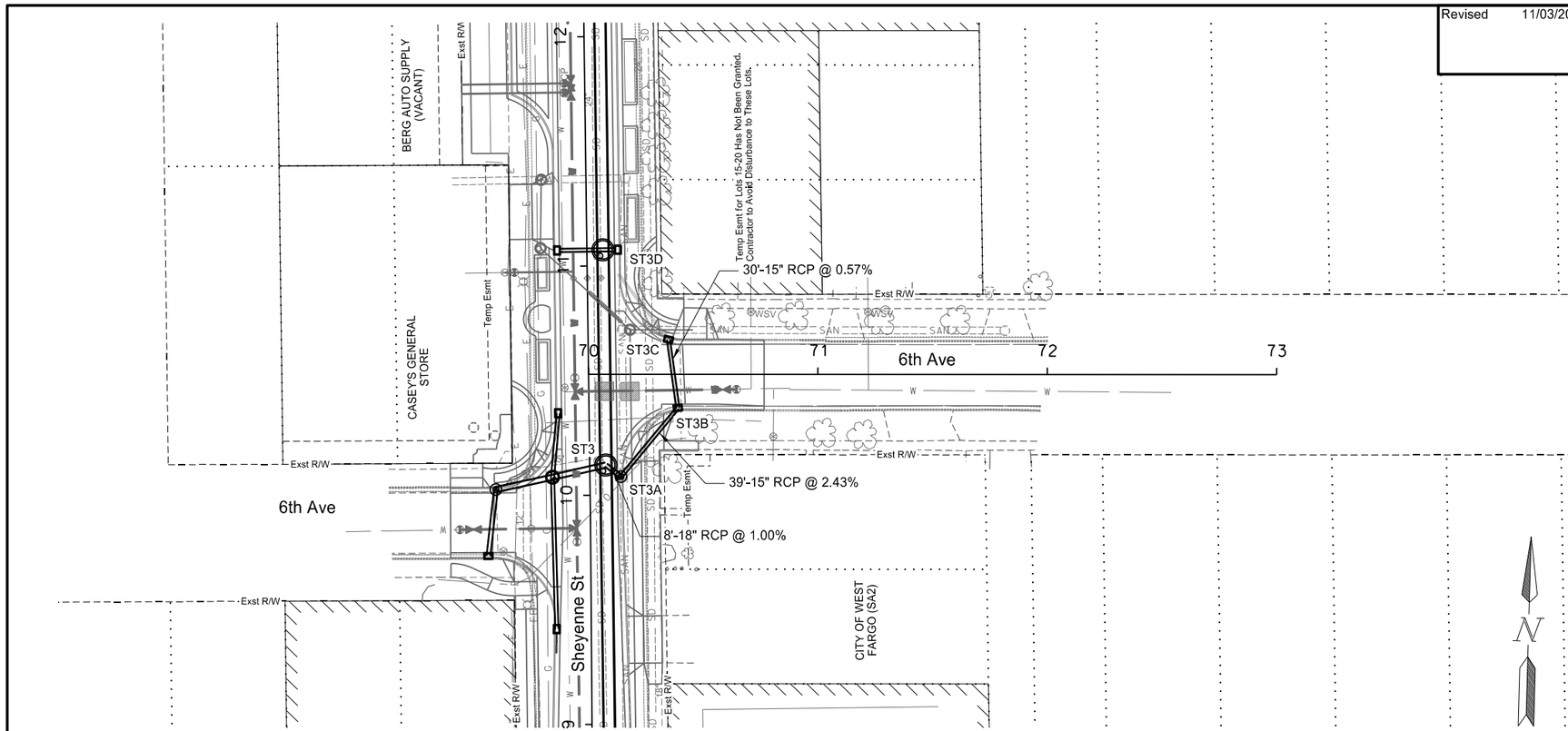
6th Avenue W

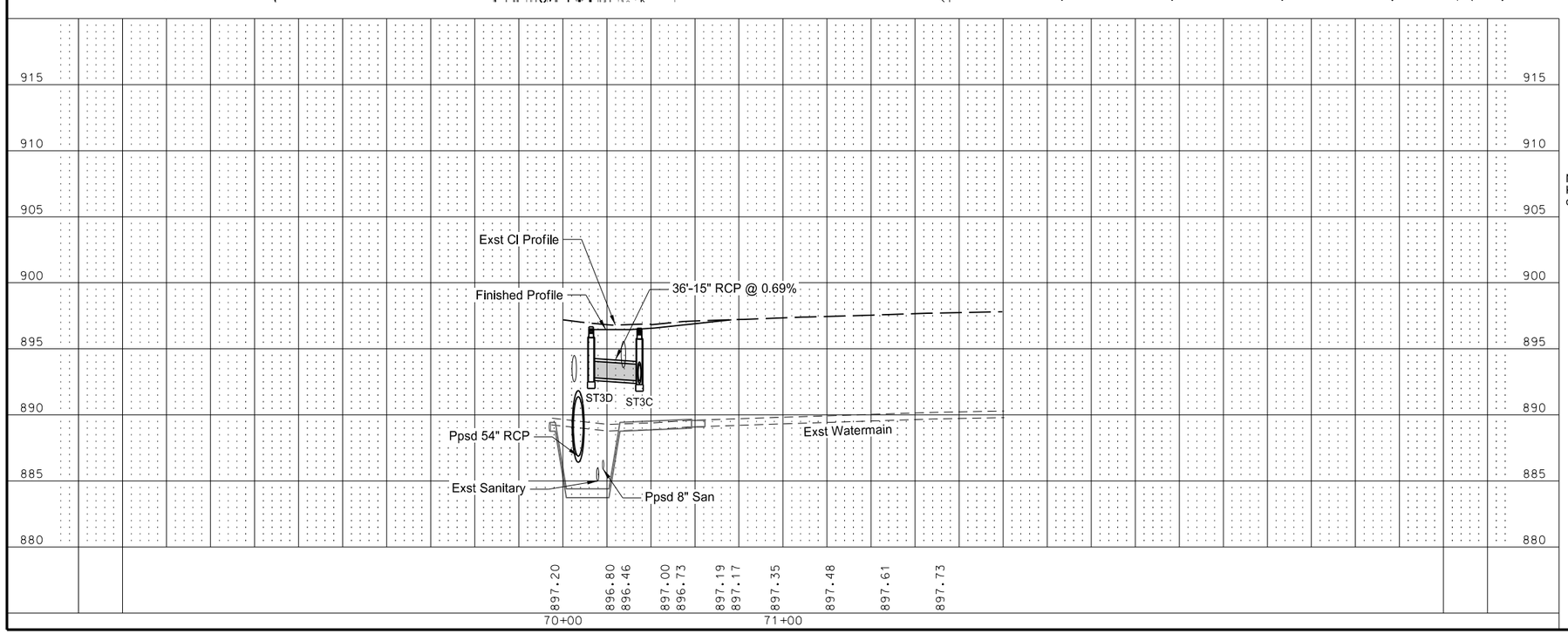
Drainage Layout

Sta 60+00 to Sta 62+00 (PR6TH_W)

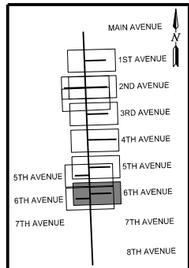
Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	55	7



SPEC	CODE	BID ITEM	QTY	UNIT
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN		
		ST3A to ST3B	39	LF
		ST3B to ST3C	30	LF
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN		
		ST3 TO ST3A	8	LF
722	3510	INLET-TYPE 2		
		ST3B, ST3C	2	EA
722	3701	INLET SPECIAL-TYPE 2 48IN		
		ST3A	1	EA



NOTE:
Keep manhole castings out of wheel path.



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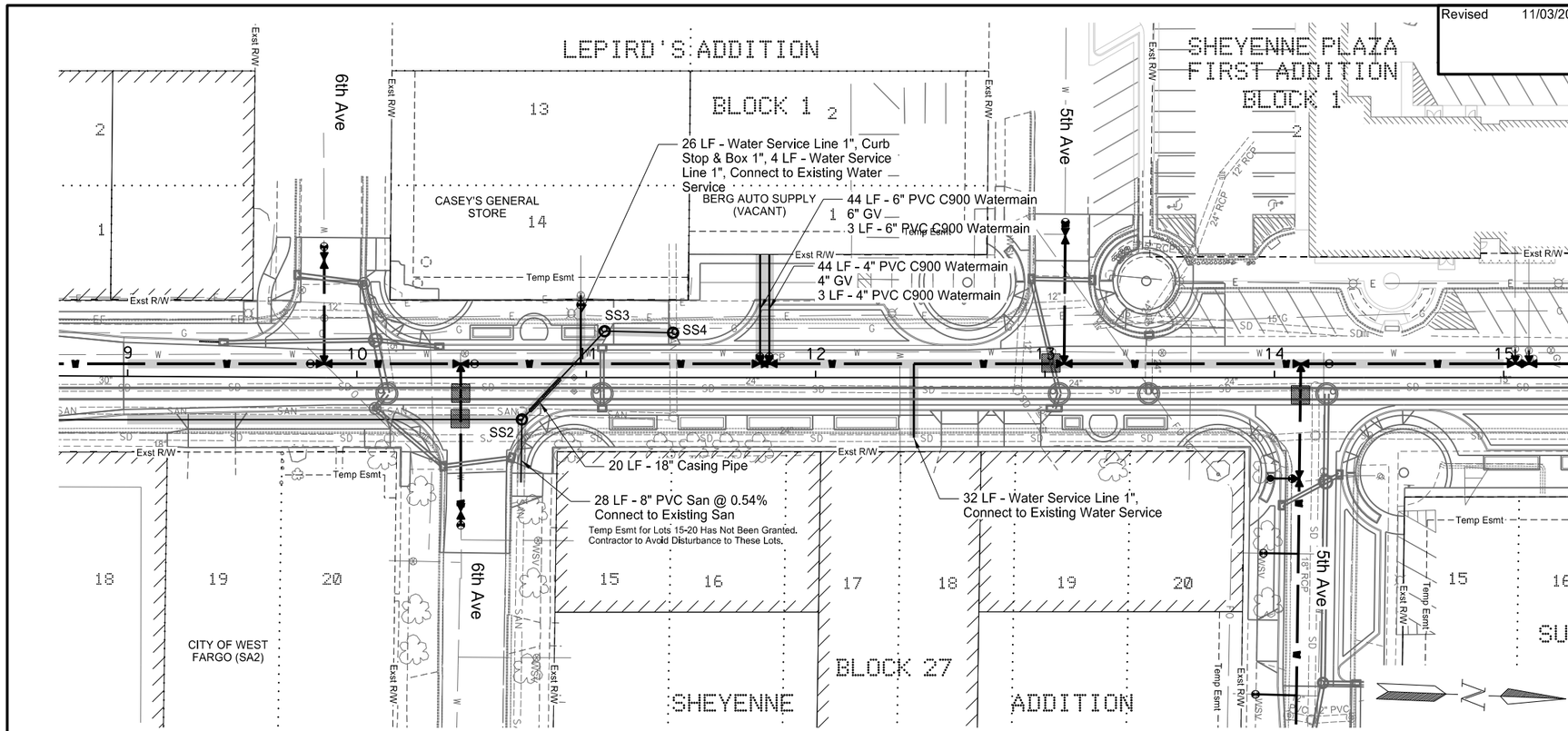
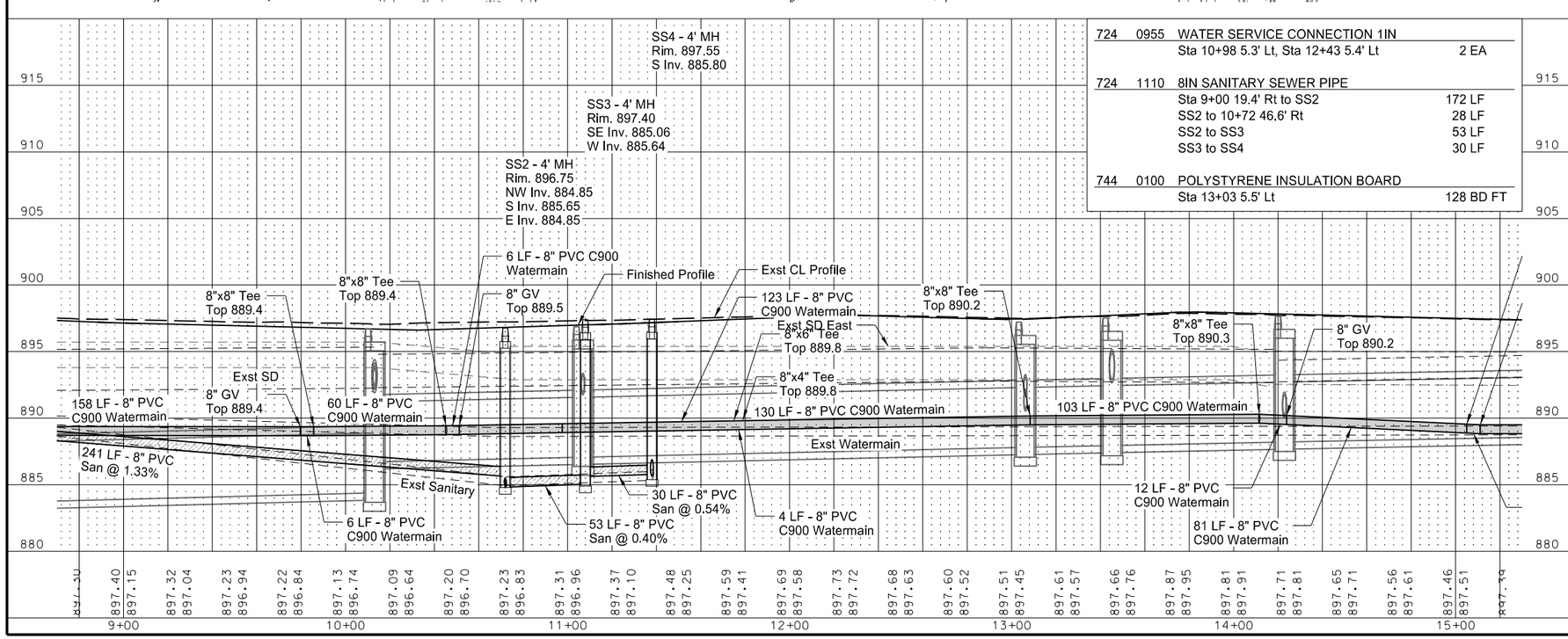
6th Avenue E

Drainage Layout

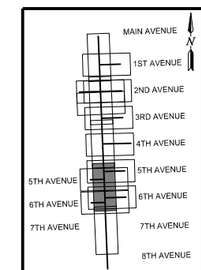
Sta 70+00 to Sta 72+00 (PR6TH_E)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	55	15





SPEC	CODE	BID ITEM	QTY	UNIT
714	8498	CASING PIPE 18IN		
		Sta 10+88.45 1.38' Rt to 10+25.37 15.41' R	20	LF
722	0300	MANHOLE SANITARY		
		SS2, SS3, SS4	3	EA
724	0210	FITTINGS-DUCTILE IRON		
		Sta 9+86 5.2' Lt (8" - Tee)	86	LBS
		Sta 10+45 5.2' Lt (8" - Tee)	86	LBS
		Sta 11+75 5.4' Lt (8" x 6" Tee)	72	LBS
		Sta 11+79 8.4' Lt (8" x 4" Tee)	60	LBS
		Sta 13+08 5.5' Lt (8" - Tee)	86	LBS
		Sta 14+12 5.6' Lt (8" - Tee)	86	LBS
724	0290	GATE VALVE & BOX 4IN		
		Sta 11+79 8.4' Lt	1	EA
724	0300	GATE VALVE & BOX 6IN		
		Sta 11+75 8.4' Lt	1	EA
724	0310	GATE VALVE & BOX 8IN		
		Sta 9+80 6.0' Lt	3	EA
		Sta 10+51 6.0' Lt		
		Sta 14+24 6.0' Lt		
724	0611	WATER SERVICE LINE 1IN		
		Sta 10+98 6.0' Lt to 10+98 35.9' Lt	30	LF
		Sta 12+43 6.0' Lt to 12+43 26.3' Rt	38	LF
724	0636	WATER SERVICE LINE 6IN		
		Sta 11+75 5.4' Lt to 11+75 8.4' Lt	3	LF
		Sta 11+75 8.4' Lt to 11+75 52.4' Lt	44	LF
724	0790	WATERMAIN 4IN PVC		
		Sta 11+79 5.4' Lt to 11+79 8.4' Lt	3	LF
		Sta 11+79 8.4' Lt to 11+79 52.4' Lt	44	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 9+00 5.0' Lt to 9+80 5.2' Lt	80	LF
		Sta 9+80 5.2' Lt to 9+86 5.2' Lt	6	LF
		Sta 9+86 5.2' Lt to 10+45 5.2' Lt	60	LF
		Sta 10+45 5.2' Lt to 10+51 5.2' Lt	6	LF
		Sta 10+51 5.2' Lt to 10+98 5.3' Lt	46	LF
		Sta 10+98 5.3' Lt to 11+75 5.4' Lt	77	LF
		Sta 11+75 5.4' Lt to 11+79 5.4' Lt	4	LF
		Sta 11+79 5.4' Lt to 12+43 5.4' Lt	64	LF
		Sta 12+43 5.4' Lt to 13+08 5.5' Lt	66	LF
		Sta 13+08 5.5' Lt to 14+12 5.6' Lt	103	LF
		Sta 14+12 5.6' Lt to 14+24 5.6' Lt	12	LF
		Sta 14+24 5.6' Lt to 15+00 5.7' Lt	76	LF
724	0955	WATER SERVICE CONNECTION 1IN		
		Sta 10+98 5.3' Lt, Sta 12+43 5.4' Lt	2	EA
724	1110	8IN SANITARY SEWER PIPE		
		Sta 9+00 19.4' Rt to SS2	172	LF
		SS2 to 10+72 46.6' Rt	28	LF
		SS2 to SS3	53	LF
		SS3 to SS4	30	LF
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 13+03 5.5' Lt	128	BD FT



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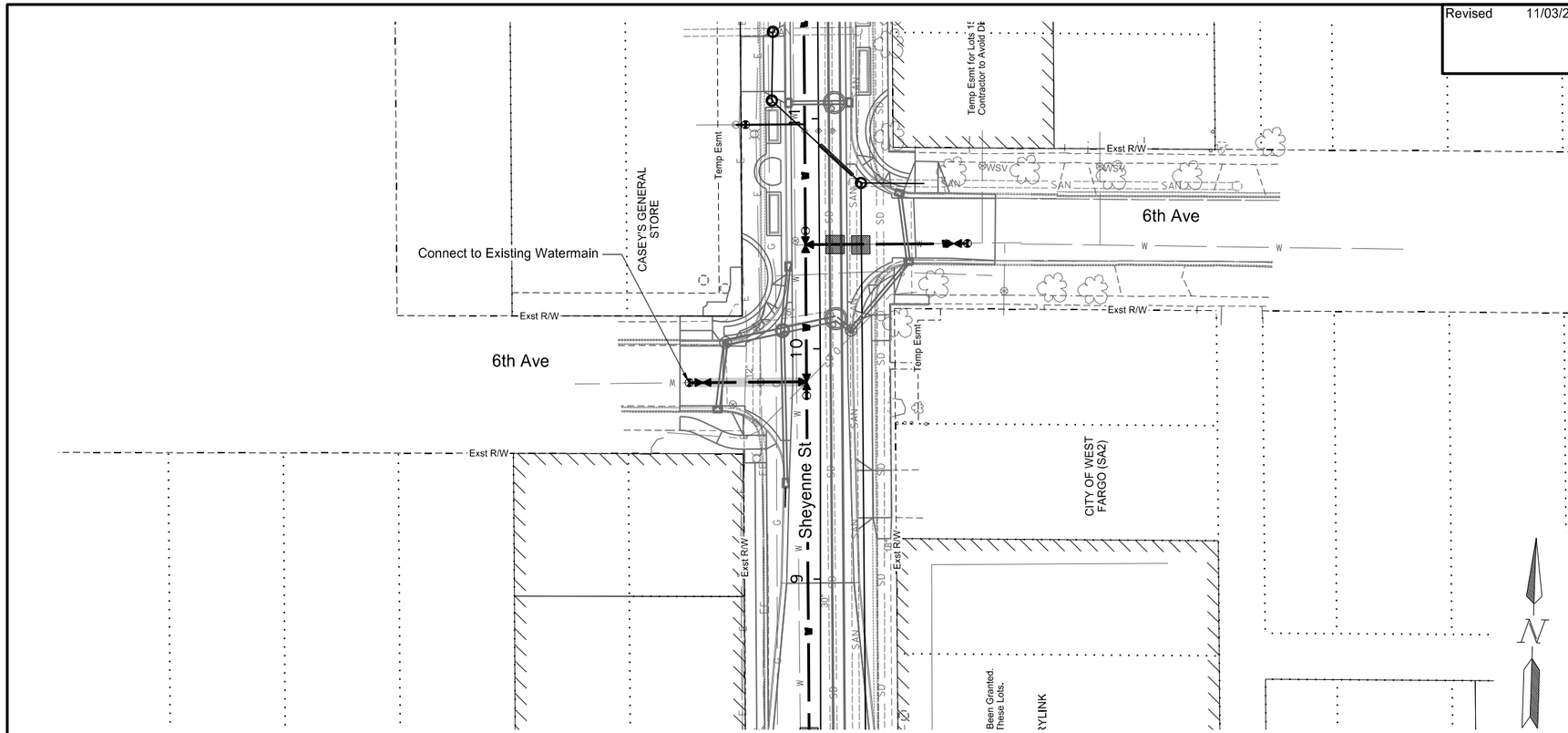
Sheyenne Street

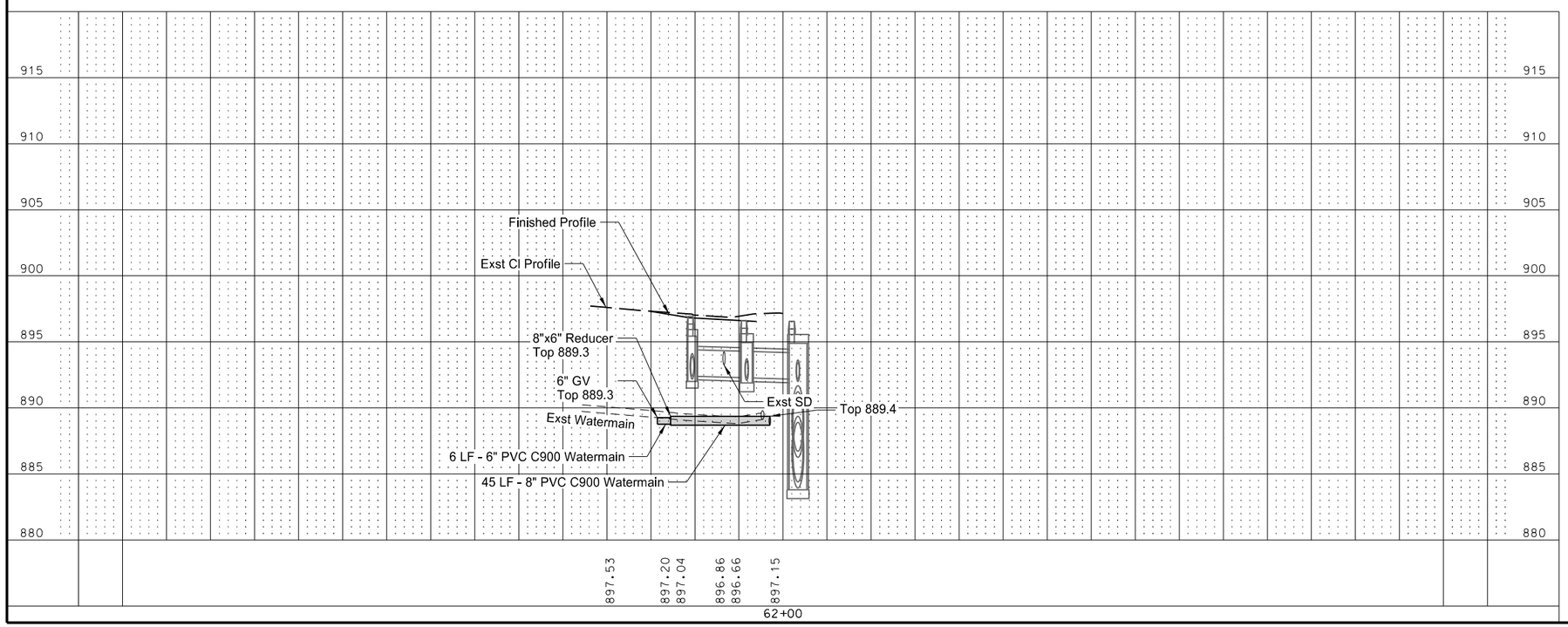
Water Layout

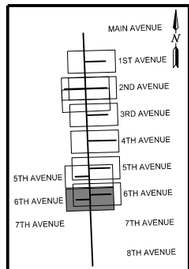
Sta 9+00 to Sta 15+00 (PRSHEYENNE)

Revised	11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	UGP-8-992(041)	55	19



SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 61+49 2.9' Rt (8" x 6" Reducer)	36	LBS
724	0300	GATE VALVE & BOX 6IN		
		Sta 61+43 2.9' Rt	1	EA
724	0810	WATERMAIN 6IN PVC		
		Sta 61+43 2.9' Rt To 61+49 2.9' Rt	6	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 61+49 2.9' Lt to 61+94 2.5' Rt	45	LF





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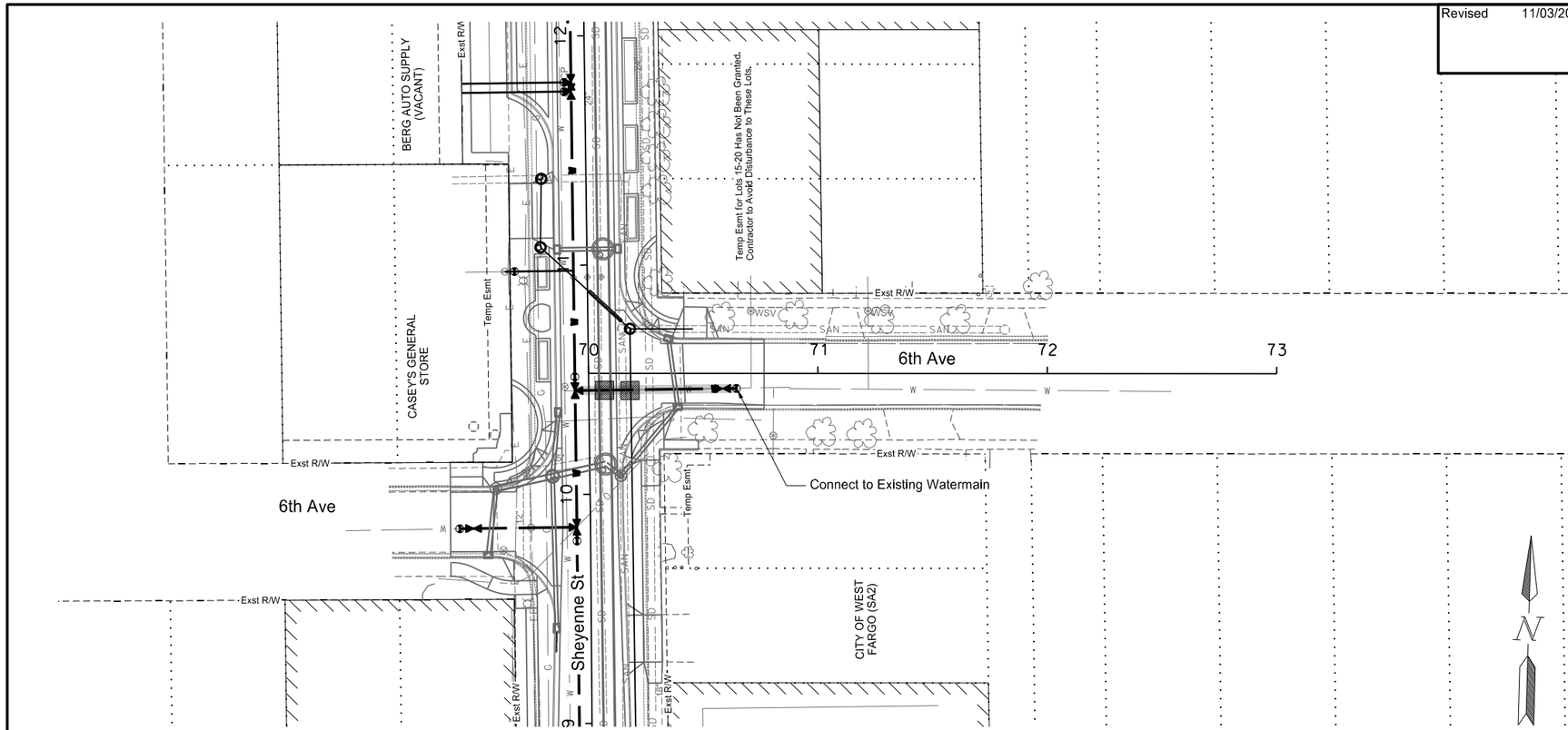
6th Avenue W

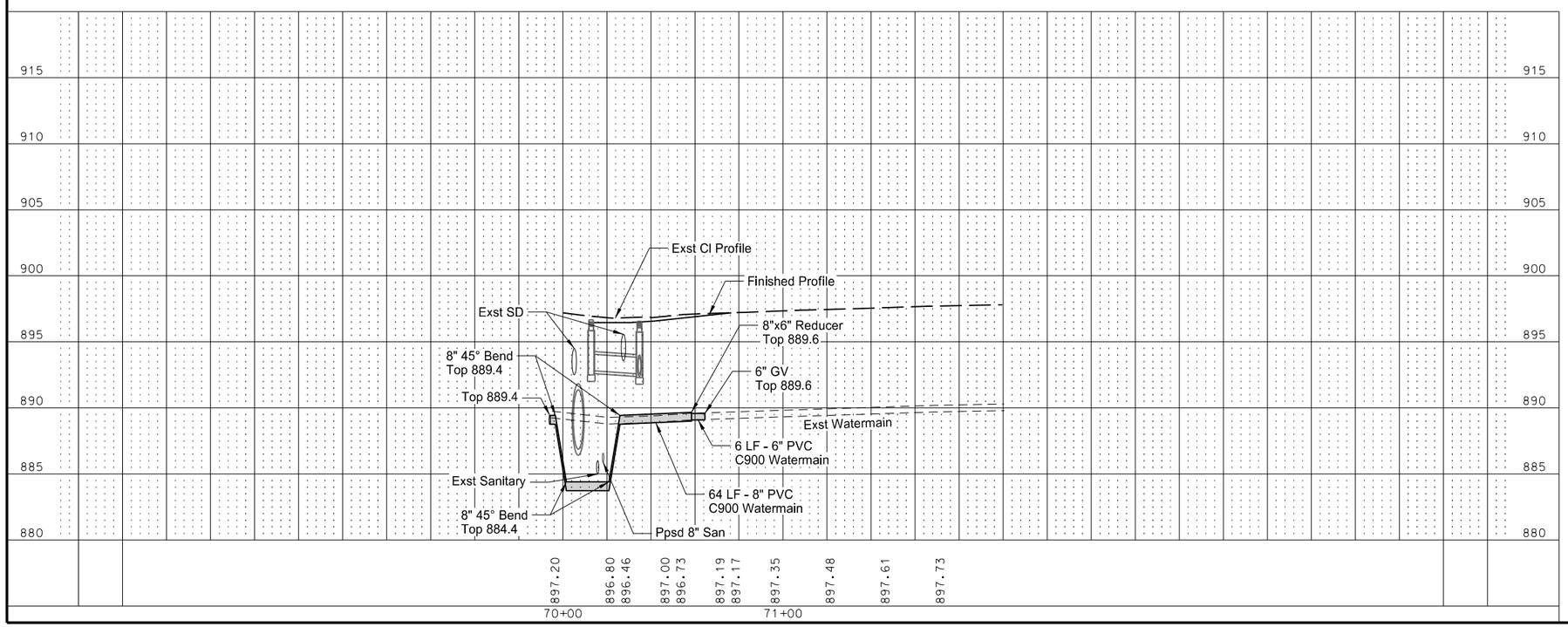
Water Layout

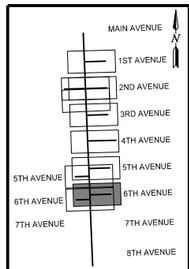
Sta 60+00 to Sta 62+00 (PR6TH_W)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	55	20



SPEC	CODE	BID ITEM	QTY	UNIT
724	0210	FITTINGS-DUCTILE IRON		
		Sta 69+97 7.5' Rt (8" - 45° Bend)	46	LBS
		Sta 70+02 7.5' Rt (8" - 45° Bend)	46	LBS
		Sta 70+21 7.3' Rt (8" - 45° Bend)	46	LBS
		Sta 70+26 7.3' Rt (8" - 45° Bend)	46	LBS
		Sta 70+58 6.7' Rt (8" x 6" Reducer)	36	LBS
724	0300	GATE VALVE & BOX 6IN		
		Sta 70+64 6.7' Rt	1	EA
724	0810	WATERMAIN 6IN PVC		
		Sta 70+58 6.7' Rt to 70+64 6.7' Rt	6	LF
724	0830	WATERMAIN 8IN PVC		
		Sta 69+94 7.5' Rt to 69+97 7.5' Rt	2	LF
		Sta 69+97 7.5' Rt to 70+02 7.5' Rt	5	LF
		Sta 70+02 7.5' Rt to 70+21 7.3' Rt	19	LF
		Sta 70+21 7.3' Rt to 70+26 7.3' Rt	5	LF
		Sta 70+26 7.3' Rt to 70+58 6.7' Rt	33	LF
744	0100	POLYSTYRENE INSULATION BOARD		
		Sta 70+08 7.4' Rt	128	BD FT
		Sta 70+19 7.4' Rt	128	BD FT





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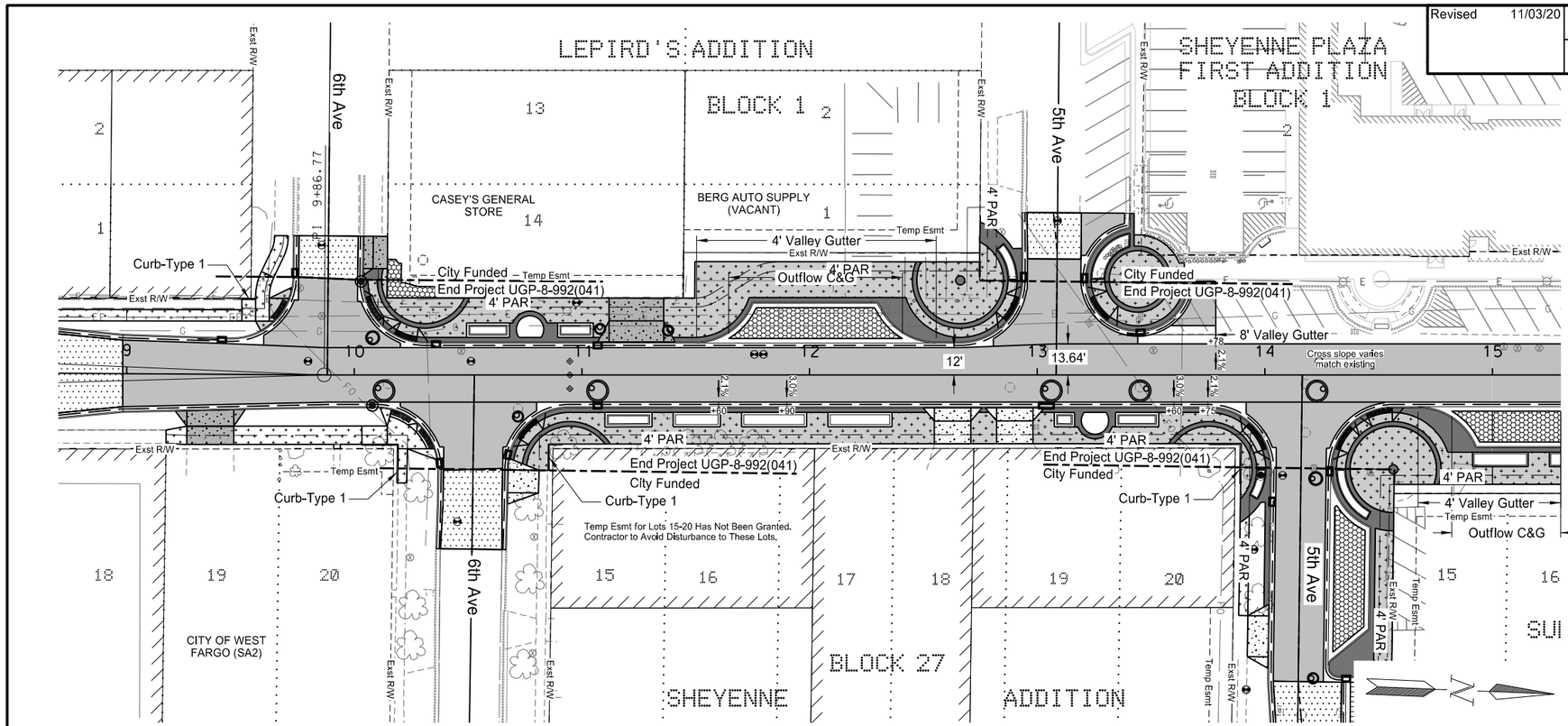
6th Avenue E

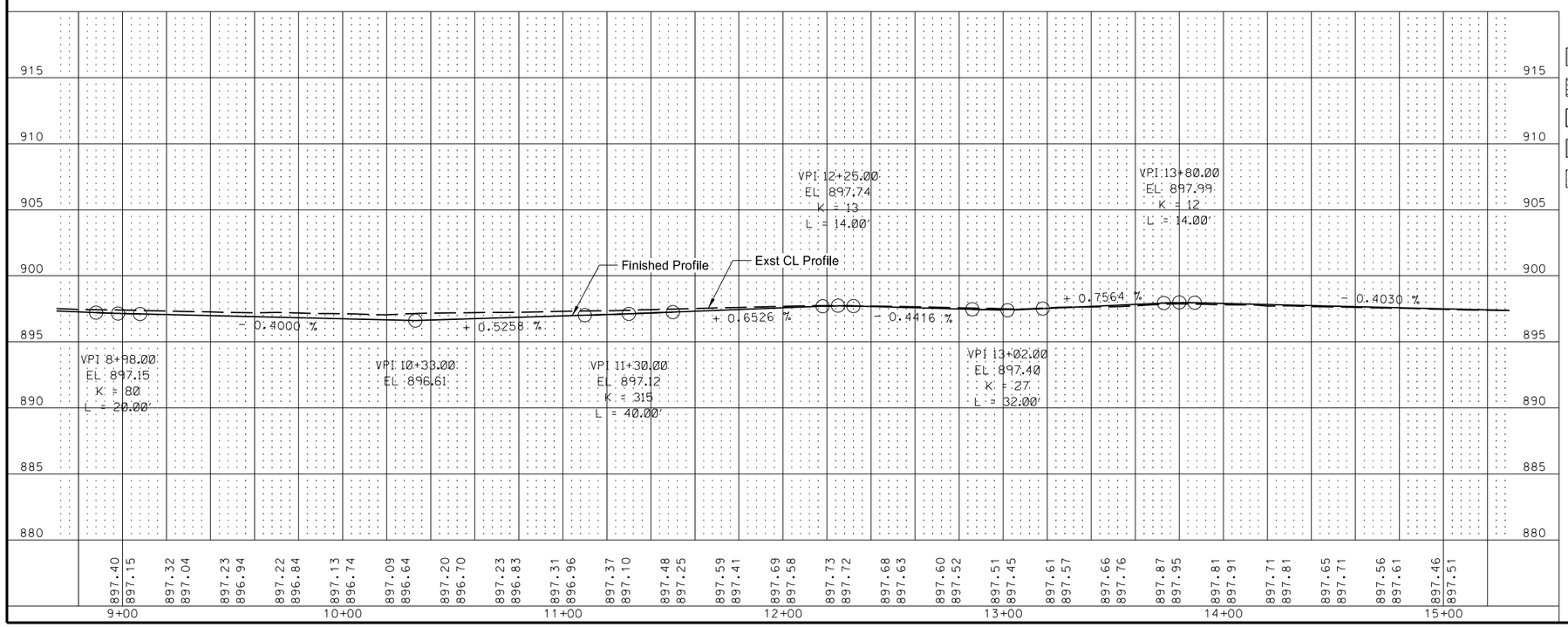
Water Layout

Sta 70+00 to Sta 72+00 (PR6TH_E)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	60	2

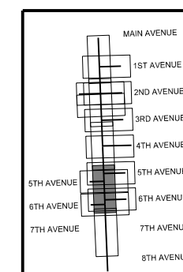


SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 9+00 to 15+00	2790	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 9+00 15.6' Lt to 9+74 42.9' Lt	91	LF
		Sta 9+00 15.6' Rt to 10+38 41.3' Rt	154	LF
		Sta 10+02 41.7' Lt to 12+95 41.2' Lt	325	LF
		Sta 10+66 41.1' Rt to 14+04 40.7' Rt	370	LF
		Sta 13+20 40.9' Lt to 13+68 37.5' Lt	68	LF
		Sta 14+28 41.1' Rt to 15+00 13.0' Rt	88	LF



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- DRIVEWAY CONCRETE 6IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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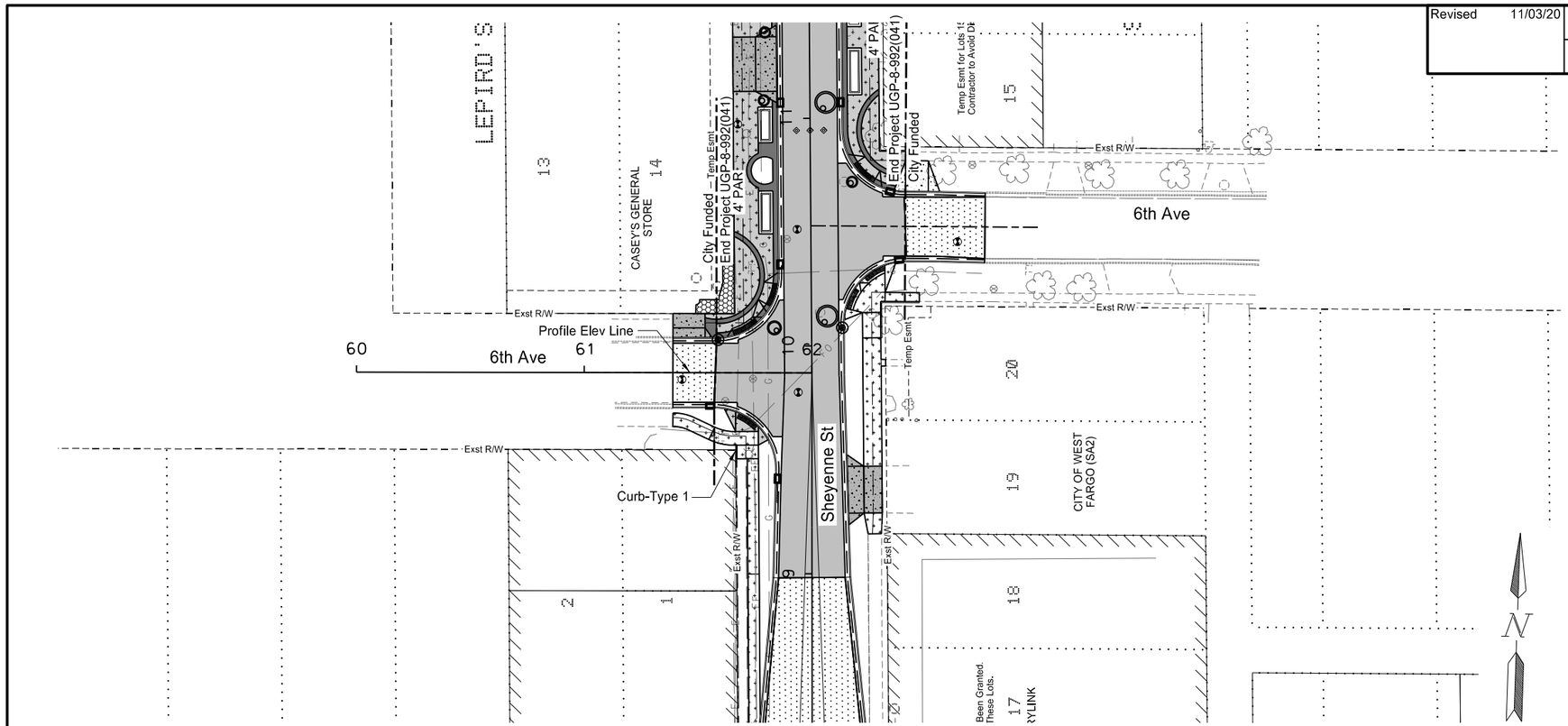
Sheyenne Street

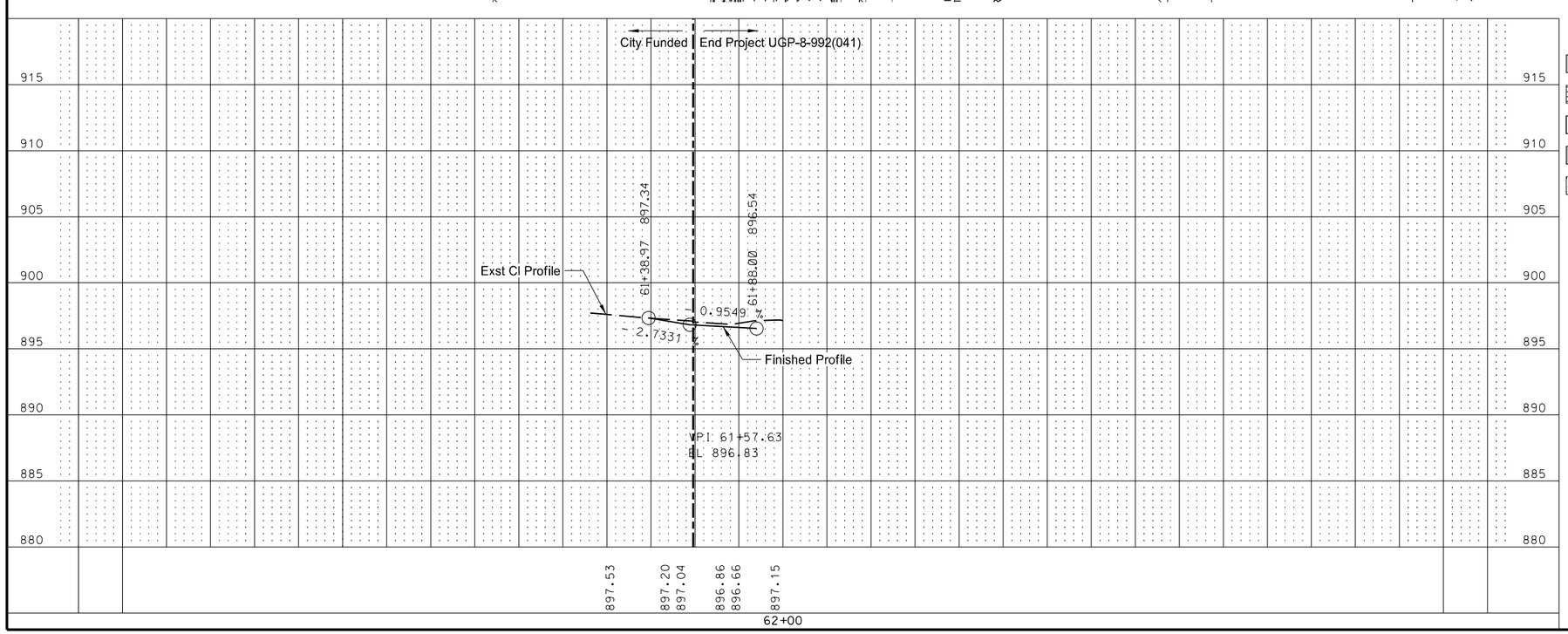
Plan and Profile

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	60	6

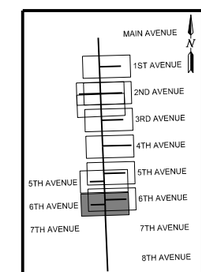


SPEC	CODE	BID ITEM	QTY	UNIT
709	0151	GEOSYNTHETIC MATERIAL TYPE R1		
		Sta 61+39 to 61+58 (City Funded)	68	SY
714	9696	EDGEDRAIN NON PERMEABLE BASE		
		Sta 61+39 14.0' Rt to 61+57 14.0' Rt (City Funded)	18	LF
		Sta 61+39 14.0' Rt to 61+58 14.0' Rt (City Funded)	19	LF



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- DRIVEWAY CONCRETE 6IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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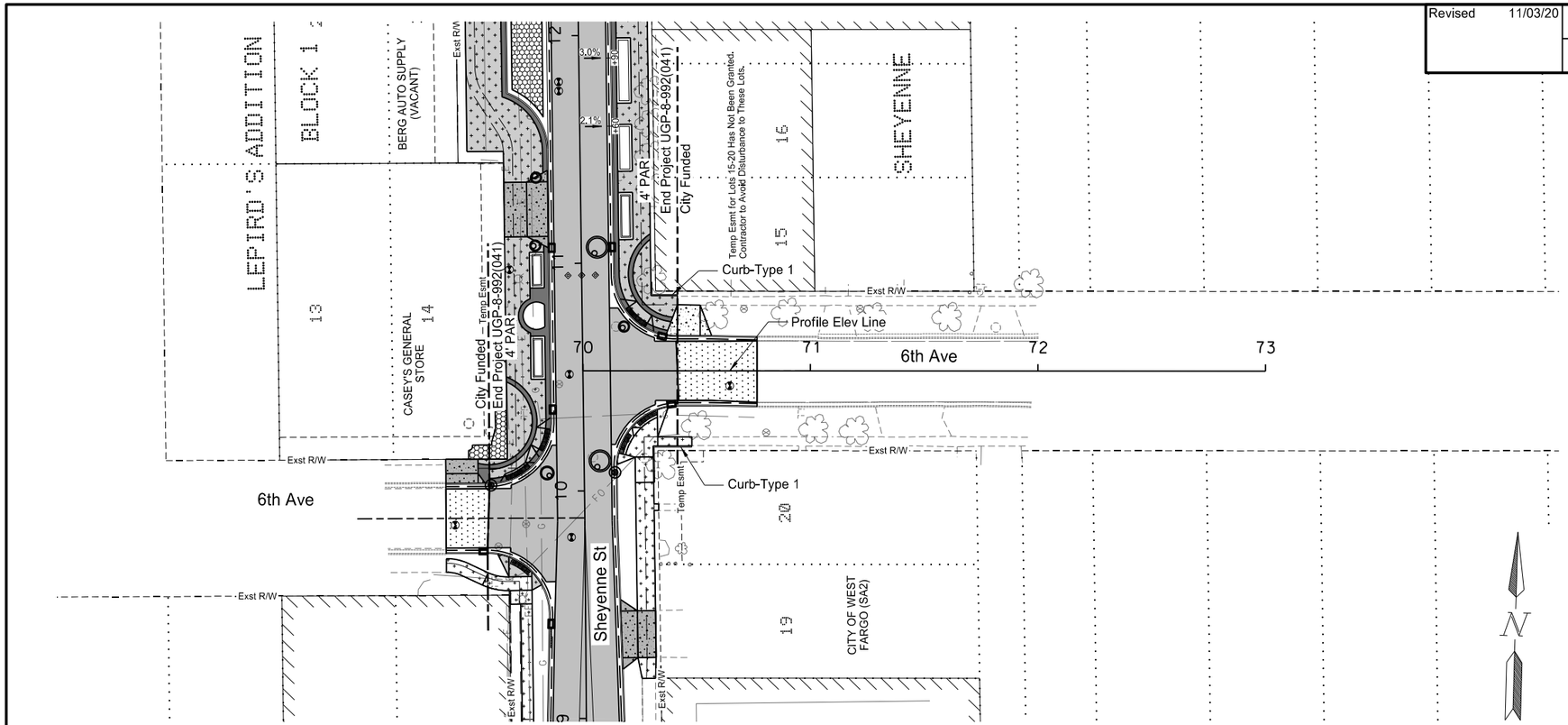
6th Avenue W

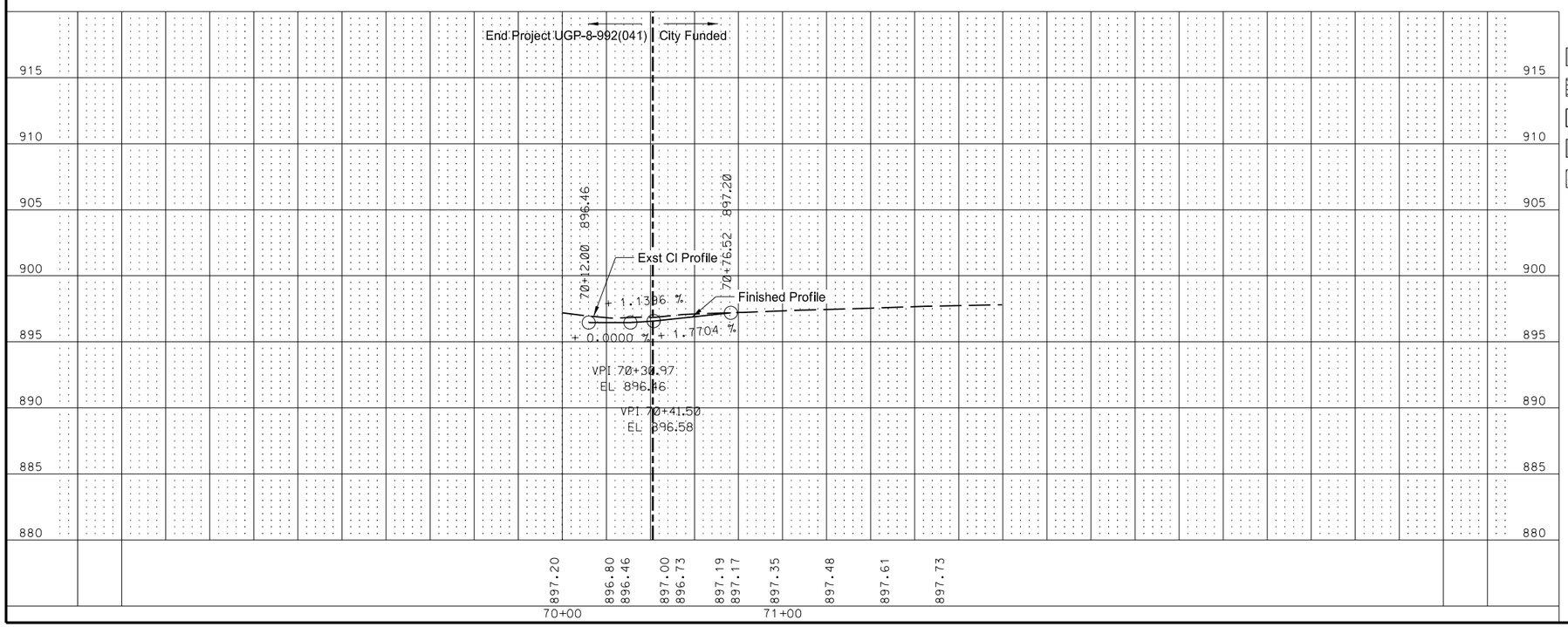
Plan and Profile

Sta 60+00 to Sta 62+00 (PR6TH_W)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	60	7

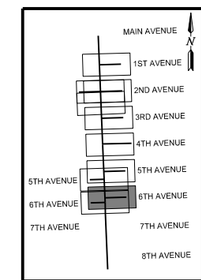
SPEC CODE	BID ITEM	QTY	UNIT
709 0151	GEOSYNTHETIC MATERIAL TYPE R1		
	Sta 70+41 to 70+76 (City Funded)	128	SY
714 9696	EDGEDRAIN NON PERMEABLE BASE		
	Sta 70+41 14.1' Rt to 70+76 14.3' Rt (City Funded)	34	LF
	Sta 70+41 14.0' Lt to 70+76 13.6' Lt (City Funded)	36	LF





LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- DRIVEWAY CONCRETE 6IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- EDGEDRAIN (SEE SECTION 20 FOR DETAILS)



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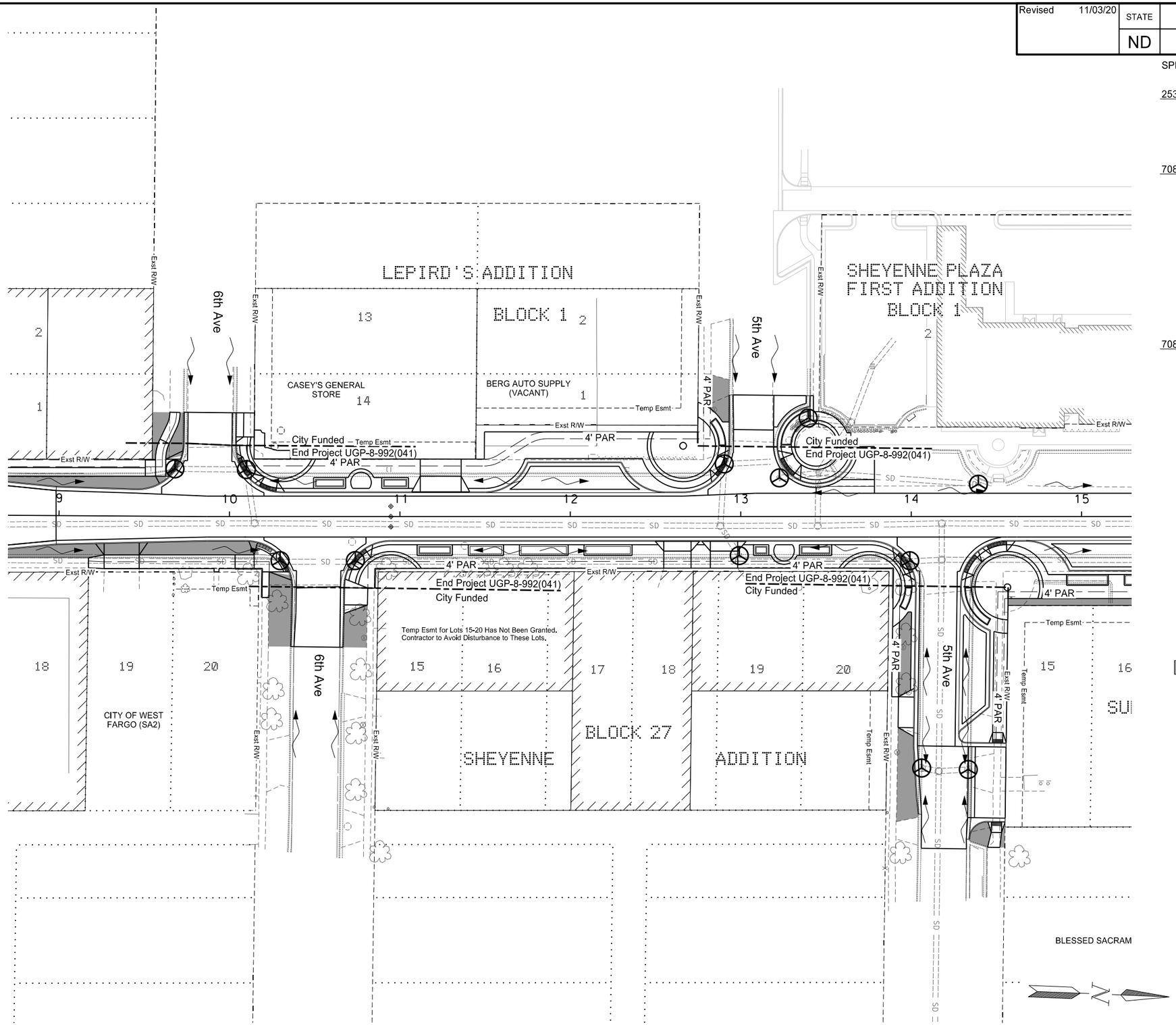
6th Avenue E

Plan and Profile

Sta 70+00 to Sta 72+00 (PR6TH_E)

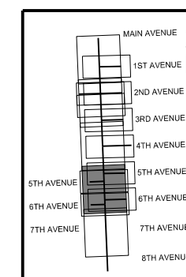
Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	76	2



SPEC	CODE	BID ITEM	QTY	UNIT
253	0201	HYDRAULIC MULCH		
		Sta 9+00 to 15+00 Lt (City Funded)	0.01	ACRE
		Sta 9+00 to 15+00 Rt (City Funded)	0.02	ACRE
		Sta 9+00 to 15+00 Lt	0.01	ACRE
		Sta 9+00 to 15+00 Rt	0.04	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		Sta 9+67 27.8' Lt	1	EA
		Sta 10+10 27.6' Lt	1	EA
		Sta 10+30 25.9' Rt	1	EA
		Sta 10+74 25.8' Rt	1	EA
		Sta 12+90 30.9' Lt	1	EA
		Sta 12+99 22.9' Rt	1	EA
		Sta 13+23 22.7' Lt	1	EA
		Sta 13+40 57.8' Lt	1	EA
		Sta 13+99 25.9' Rt	1	EA
		Sta 14+06 147.5' Rt	1	EA
		Sta 14+33 148.3' Rt	1	EA
		Sta 14+39 19.0' Lt	1	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		Sta 9+67 27.8' Lt	1	EA
		Sta 10+10 27.6' Lt	1	EA
		Sta 10+30 25.9' Rt	1	EA
		Sta 10+74 25.8' Rt	1	EA
		Sta 12+90 30.9' Lt	1	EA
		Sta 12+99 22.9' Rt	1	EA
		Sta 13+23 22.7' Lt	1	EA
		Sta 13+40 57.8' Lt	1	EA
		Sta 13+99 25.9' Rt	1	EA
		Sta 14+06 147.5' Rt	1	EA
		Sta 14+33 148.3' Rt	1	EA

LEGEND

- HYDRAULIC MULCH
- FLOW DIRECTION
- INLET PROTECTION - SPECIAL
- GRADING TIE LINE



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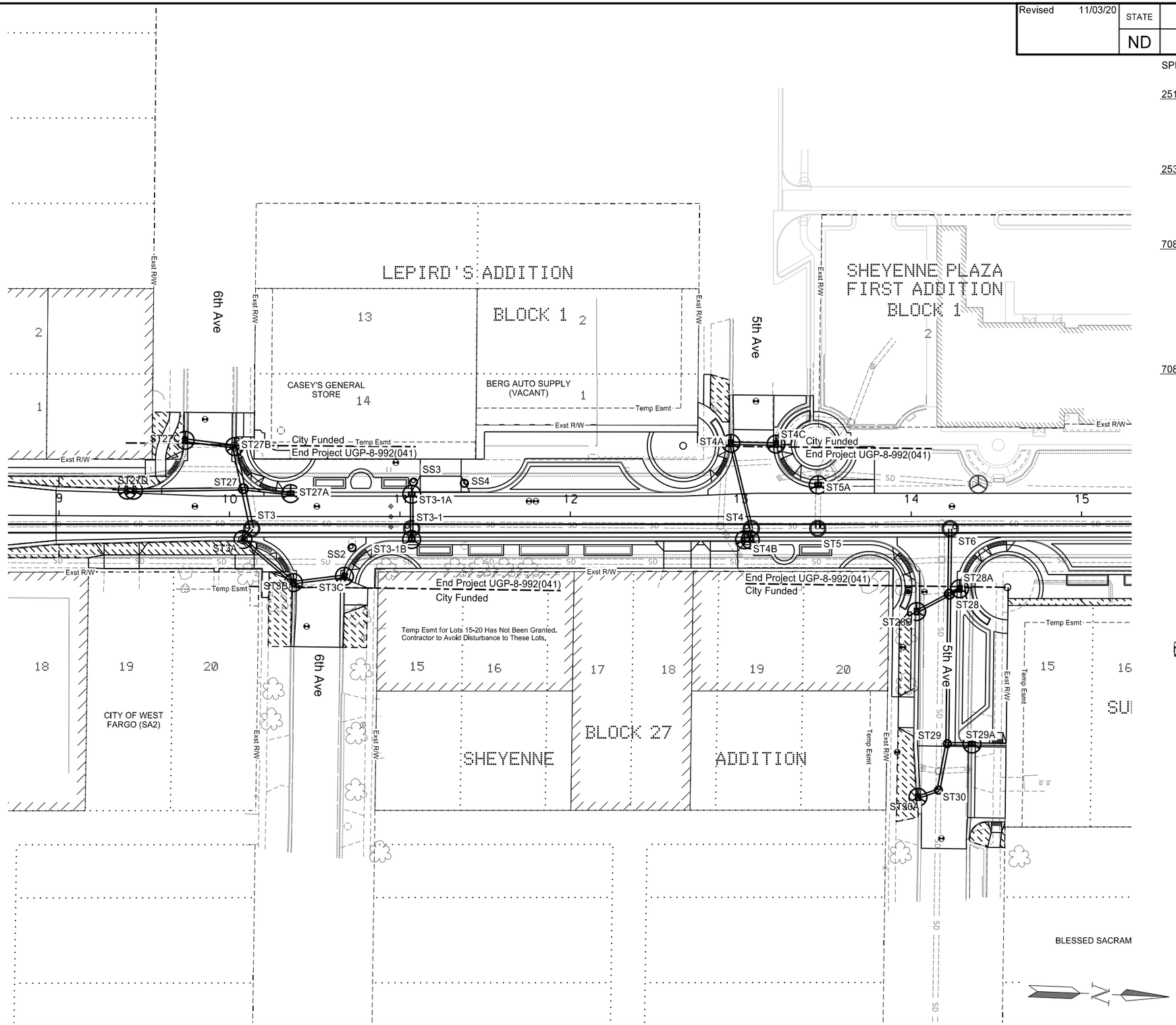
Sheyenne Street

Temporary Erosion Control

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

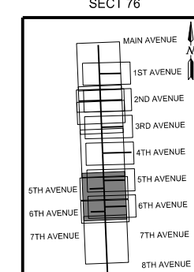
Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	77	2



SPEC	CODE	BID ITEM	QTY	UNIT
251	0300	SEEDING CLASS III		
		Sta 9+00 to Sta 15+00 Lt (City Funded)	0.01	ACRE
		Sta 9+00 to Sta 15+00 Rt (City Funded)	0.02	ACRE
		Sta 9+00 to Sta 15+00 Lt	0.01	ACRE
		Sta 9+00 to Sta 15+00 Rt	0.04	ACRE
253	0201	HYDRAULIC MULCH		
		Sta 9+00 to Sta 15+00 Lt (City Funded)	0.01	ACRE
		Sta 9+00 to Sta 15+00 Rt (City Funded)	0.02	ACRE
		Sta 9+00 to Sta 15+00 Lt	0.01	ACRE
		Sta 9+00 to Sta 15+00 Rt	0.04	ACRE
708	1540	INLET PROTECTION - SPECIAL		
		ST27A, ST27B, ST27C, ST27D	5	EA
		ST3A, ST3B, ST3C	3	EA
		ST3-1A, ST3-1B	2	EA
		ST4A, ST4B, ST4C	4	EA
		ST5A	1	EA
		ST28A, ST28B	2	EA
		ST29A	1	EA
		ST30A	1	EA
708	1541	REMOVE INLET PROTECTION-SPECIAL		
		ST27A, ST27B, ST27C, ST27D	5	EA
		ST3A, ST3B, ST3C	3	EA
		ST3-1A, ST3-1B	2	EA
		ST4A, ST4B, ST4C	4	EA
		ST5A	1	EA
		ST28A, ST28B	2	EA
		ST29A	1	EA
		ST30A	1	EA
		Sta 14+39 19.0' Lt	1	EA

LEGEND

- 6" TOPSOIL, SEEDING, AND HYDRAULIC MULCH
- FLOW DIRECTION
- INLET PROTECTION - SPECIAL
- GRADING TIE LINE
- INLET PROTECTION - SPECIAL INSTALLED IN SECT 76



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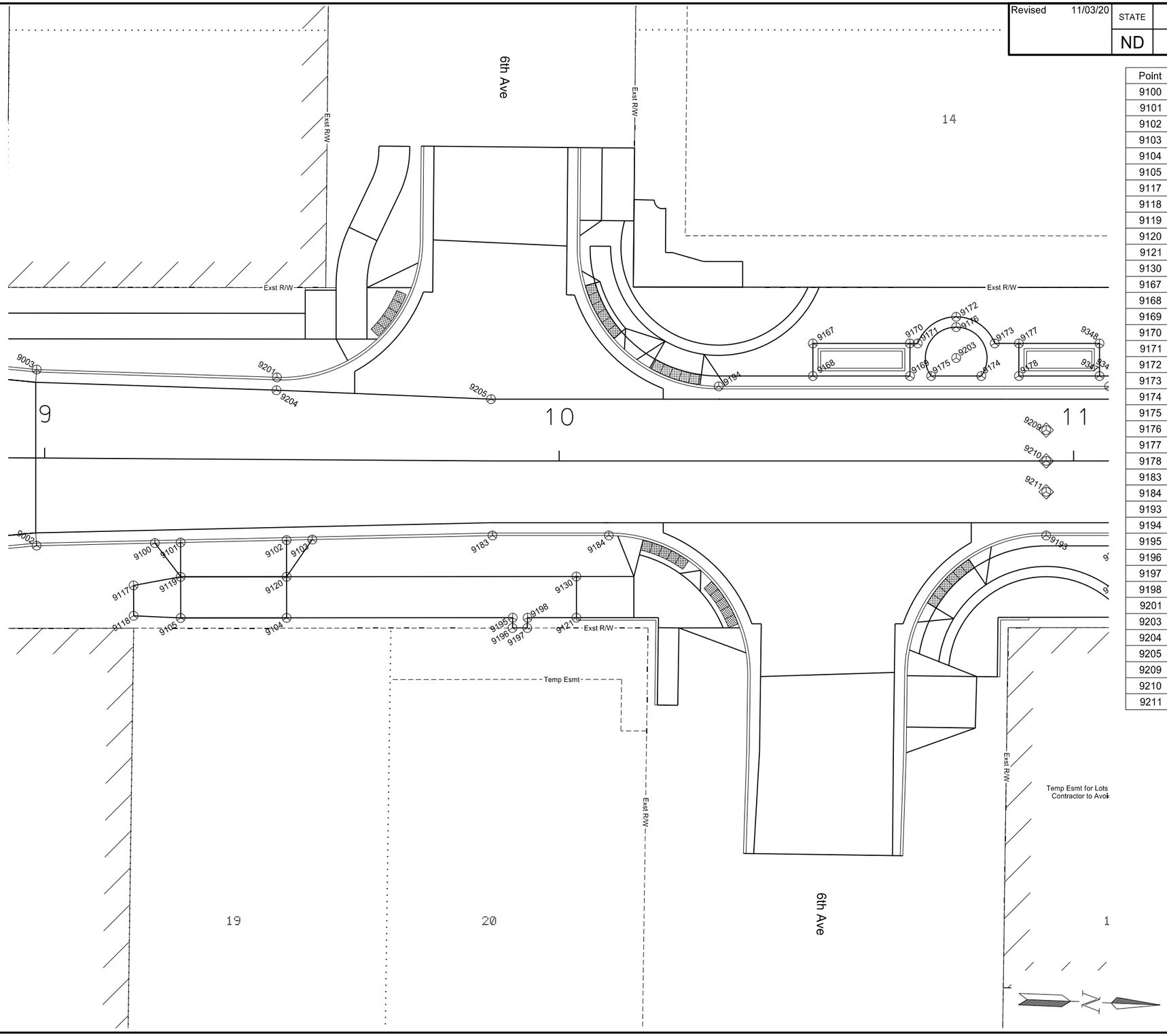
Sheyenne Street

Permanent Erosion Control

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	82	2



Point	Northing	Easting	Station	Offset	Description
9100	459626.81	2867925.58	9+21.54	16.38	DRWY
9101	459631.80	2867925.27	9+26.54	16.23	DRWY
9102	459652.35	2867923.96	9+47.12	15.64	DRWY
9103	459657.34	2867923.65	9+52.12	15.50	DRWY
9104	459652.98	2867939.07	9+47.24	30.76	DRWY
9105	459632.42	2867939.93	9+26.66	30.91	DRWY
9117	459623.01	2867933.98	9+17.45	24.64	EOSW
9118	459623.27	2867939.89	9+17.50	30.55	EOSW
9119	459632.08	2867931.94	9+26.59	22.91	EOSW
9120	459652.65	2867931.08	9+47.17	22.76	EOSW
9121	459709.26	2867936.72	10+03.37	30.47	EOSW
9130	459708.93	2867928.72	10+07.36	22.46	EOSW
9167	459753.00	2867881.58	10+49.33	-22.83	EOSW
9168	459753.26	2867887.91	10+49.33	-16.50	EOSW
9169	459772.12	2867887.13	10+68.20	-16.50	EOSW
9170	459771.85	2867880.81	10+68.19	-22.83	EOSW
9171	459773.36	2867880.74	10+69.70	-22.83	EOSW
9172	459780.62	2867875.27	10+77.19	-28.00	EOSW
9173	459788.31	2867880.13	10+84.67	-22.83	EOSW
9174	459785.97	2867886.56	10+82.06	-16.50	EOSW
9175	459776.23	2867886.96	10+72.31	-16.50	EOSW
9176	459780.71	2867877.27	10+77.18	-26.00	EOSW
9177	459793.01	2867879.93	10+89.37	-22.83	EOSW
9178	459793.27	2867886.26	10+89.37	-16.50	EOSW
9183	459692.31	2867921.43	9+87.05	14.50	BOC
9184	459714.91	2867920.51	10+09.67	14.50	BOC
9193	459799.84	2867917.02	10+94.67	14.50	BOC
9194	459735.06	2867890.65	10+31.02	-14.50	BOC
9195	459696.89	2867937.23	9+90.98	30.47	EOSW
9196	459696.94	2867939.22	9+90.94	32.46	EOSW
9197	459699.80	2867939.11	9+93.81	32.46	EOSW
9198	459699.76	2867937.11	9+93.86	30.47	EOSW
9201	459649.19	2867892.44	9+45.05	-15.97	BOC
9203	459780.95	2867883.26	10+77.19	-20.00	CEN
9204	459649.21	2867894.94	9+44.99	-13.47	JOINT
9205	459690.94	2867894.97	9+86.70	-12.00	JOINT
9209	459799.00	2867896.54	10+94.67	-6.00	BOLLARD
9210	459799.2477	2867902.532	10+94.67	0	BOLLARD
9211	459799.4938	2867908.527	10+94.67	6	BOLLARD

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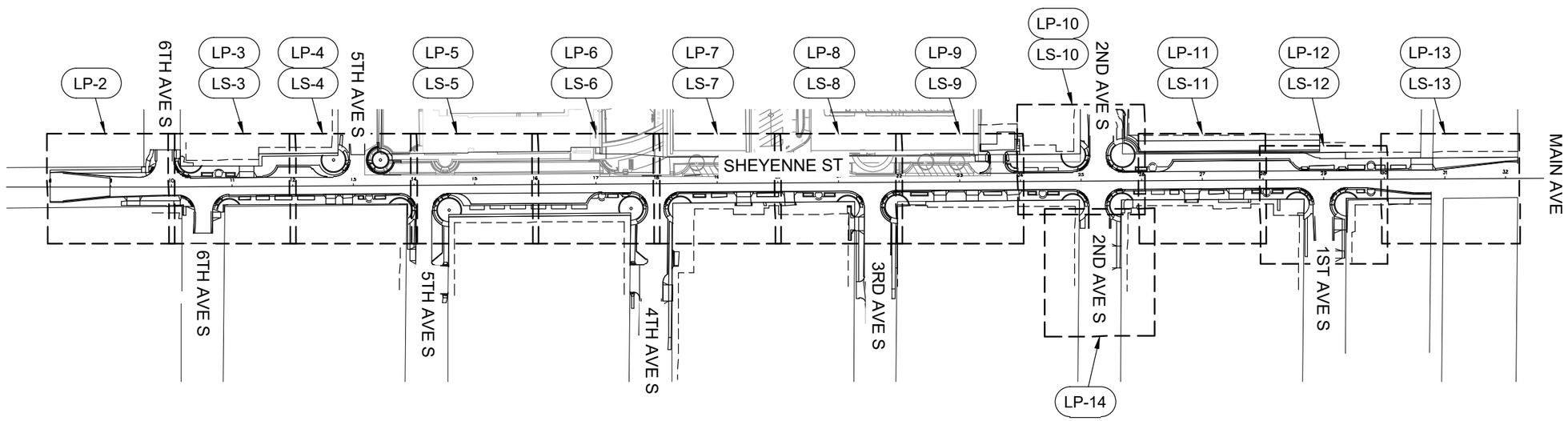
Sheyenne Street

Survey Data Layouts

Sta 9+00 to Sta 11+00 (PRSHEYENNE)

REVISED 11/03/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	1



SHEET INDEX

LANDSCAPE SITE PLAN

LS-1 Sheet Layout
LS-3 Site Plan Sta 10+00 to Sta 12+00
LS-4 Site Plan Sta 12+00 to Sta 14+00
LS-5 Site Plan Sta 14+00 to Sta 16+00
LS-6 Site Plan Sta 16+00 to Sta 18+00
LS-7 Site Plan Sta 18+00 to Sta 20+00
LS-8 Site Plan Sta 20+00 to Sta 22+00
LS-9 Site Plan Sta 22+00 to Sta 24+00
LS-10 Site Plan Sta 24+00 to Sta 26+00
LS-11 Site Plan Sta 26+00 to Sta 28+00
LS-12 Site Plan Sta 28+00 to Sta 30+00
LS-13 Site Plan Sta 30+00 to End
LS-14 Construction Details
LS-15 Construction Details
LS-16 Construction Details
LS-17 Construction Details

LANDSCAPE PLANTING PLAN

LP-2 Landscape Plan Start to Sta 10+00
LP-3 Landscape Plan Sta 10+00 to Sta 12+00
LP-4 Landscape Plan Sta 12+00 to Sta 14+00
LP-5 Landscape Plan Sta 14+00 to Sta 16+00
LP-6 Landscape Plan Sta 16+00 to Sta 18+00
LP-7 Landscape Plan Sta 18+00 to Sta 20+00
LP-8 Landscape Plan Sta 20+00 to Sta 22+00
LP-9 Landscape Plan Sta 22+00 to Sta 24+00
LP-10 Landscape Plan Sta 24+00 to Sta 26+00
LP-11 Landscape Plan Sta 26+00 to Sta 28+00
LP-12 Landscape Plan Sta 28+00 to Sta 30+00
LP-13 Landscape Plan Sta 30+00 to End
LP-14 Landscape Plan 2nd Ave S

LANDSCAPE PLANTING PLAN

LP-18 Enlarged Landscape Plan
LP-19 Enlarged Landscape Plan
LP-20 Enlarged Landscape Plan
LP-21 Enlarged Landscape Plan
LP-22 Enlarged Landscape Plan
LP-23 Enlarged Landscape Plan
LP-24 Plant Schedule
LP-25 Planting Details

0' 100' 200' 400'

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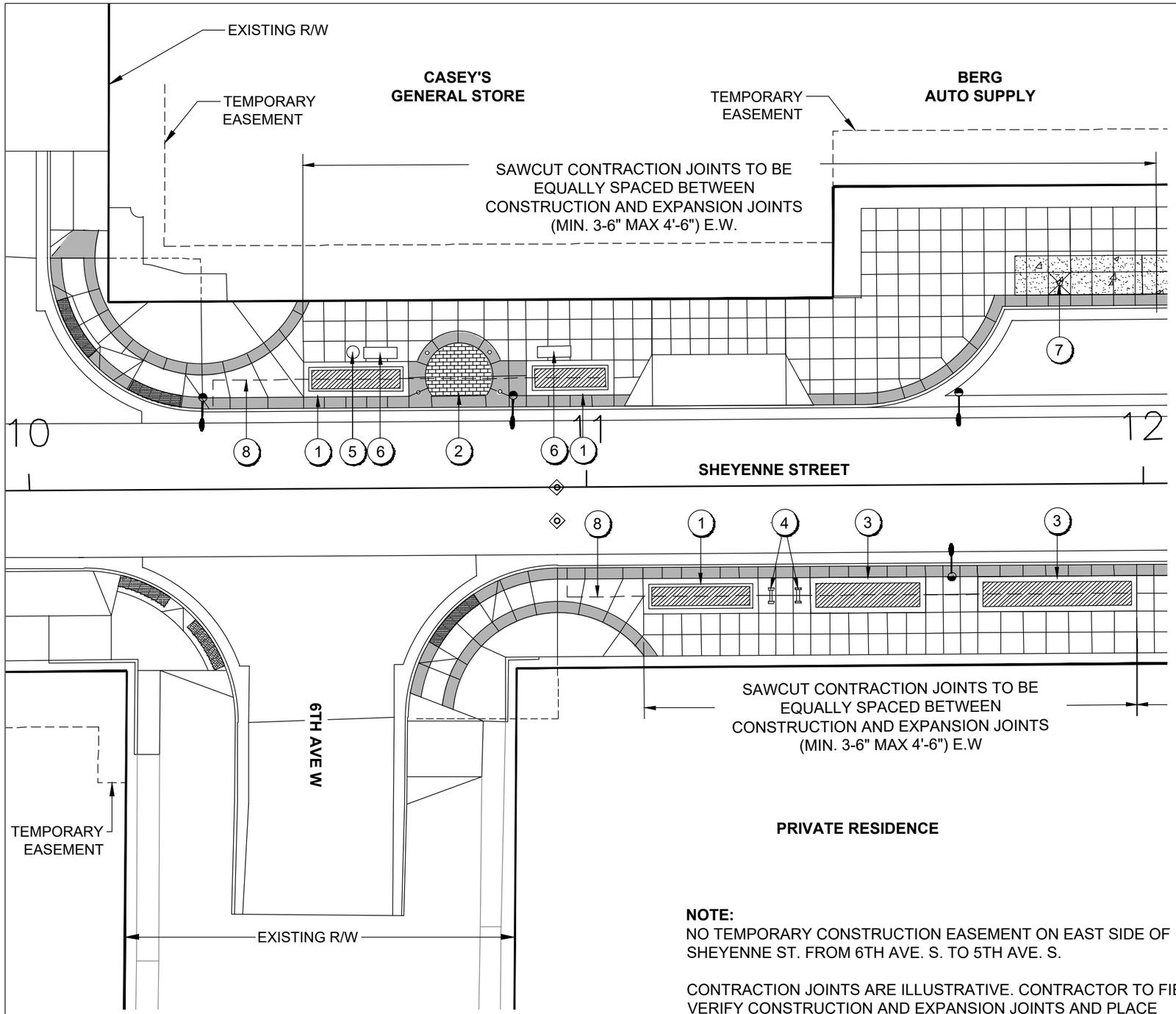
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-1
LANDSCAPE SHEET LAYOUT
SHEYENNE STREET

REVISED 11/03/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	2



QUANTITIES (THIS SHEET)

714	6580	PIPE PE CORR. PERF. 4INCH DRAIN	181 LF
748	141	CURB + GUTTER TYPE 1 SPECIAL	125 LF
930	9543	RETAINING WALL	162 SF
970	600	CAST IRON TREE GRATE	
		11+85.1' - 36.0' LT	1 EA
970	4	LANDSCAPE INTERLOCKING BLOCK	96 SF
970	60	PLANTING SOIL	32 CY
970	50	STRUCTURAL SOIL	18 CY
970	300	BENCH	
		STA 10+63.2' - 24.3' LT	1 EA
		STA 10+94.4' - 24.3' LT	1 EA
970	320	TRASH RECEPTACLE	
		STA 10+58.2' - 24.5' LT	1 EA
970	450	BIKE RACKS	
		STA 11+33.0' - 19.7' RT	1 EA
		STA 11+37.9' - 19.7' RT	1 EA

KEYNOTES

1. RAISED PLANTER, SEE S.D. 1/13
2. PAVER INLAY, SEE S.D. 4/14
3. PLANTER WALL, SEE S.D. 2/13
4. BIKE RACK, SEE S.D. 3/16
5. TRASH RECEPTACLE SEE S.D. 2/16
6. BENCH, SEE S.D. 1/16
7. TREE GRATE SEE S.D. 3/15
8. PLANTER DRAIN TILE SEE S.D. 4/16
9. CURB PLANTER SEE S.D. 3/14

NOTE:
NO TEMPORARY CONSTRUCTION EASEMENT ON EAST SIDE OF SHEYENNE ST. FROM 6TH AVE. S. TO 5TH AVE. S.

CONTRACTION JOINTS ARE ILLUSTRATIVE. CONTRACTOR TO FIELD VERIFY CONSTRUCTION AND EXPANSION JOINTS AND PLACE CONTRACTION JOINTS AS SHOWN ON PLAN. CONTRACTOR TO NOTIFY LANDSACPE ARCHITECT IF THERE ARE DEVIATIONS FROM THIS PLAN

0' 10' 20' 40'

GROUNDCOVER LEGEND

- PLANTING SOIL
- STRUCTURAL SOIL

SITE FEATURE LEGEND

- DRAIN INLET
- LIGHT FIXTURE
- MANHOLE
- FIRE HYDRANT

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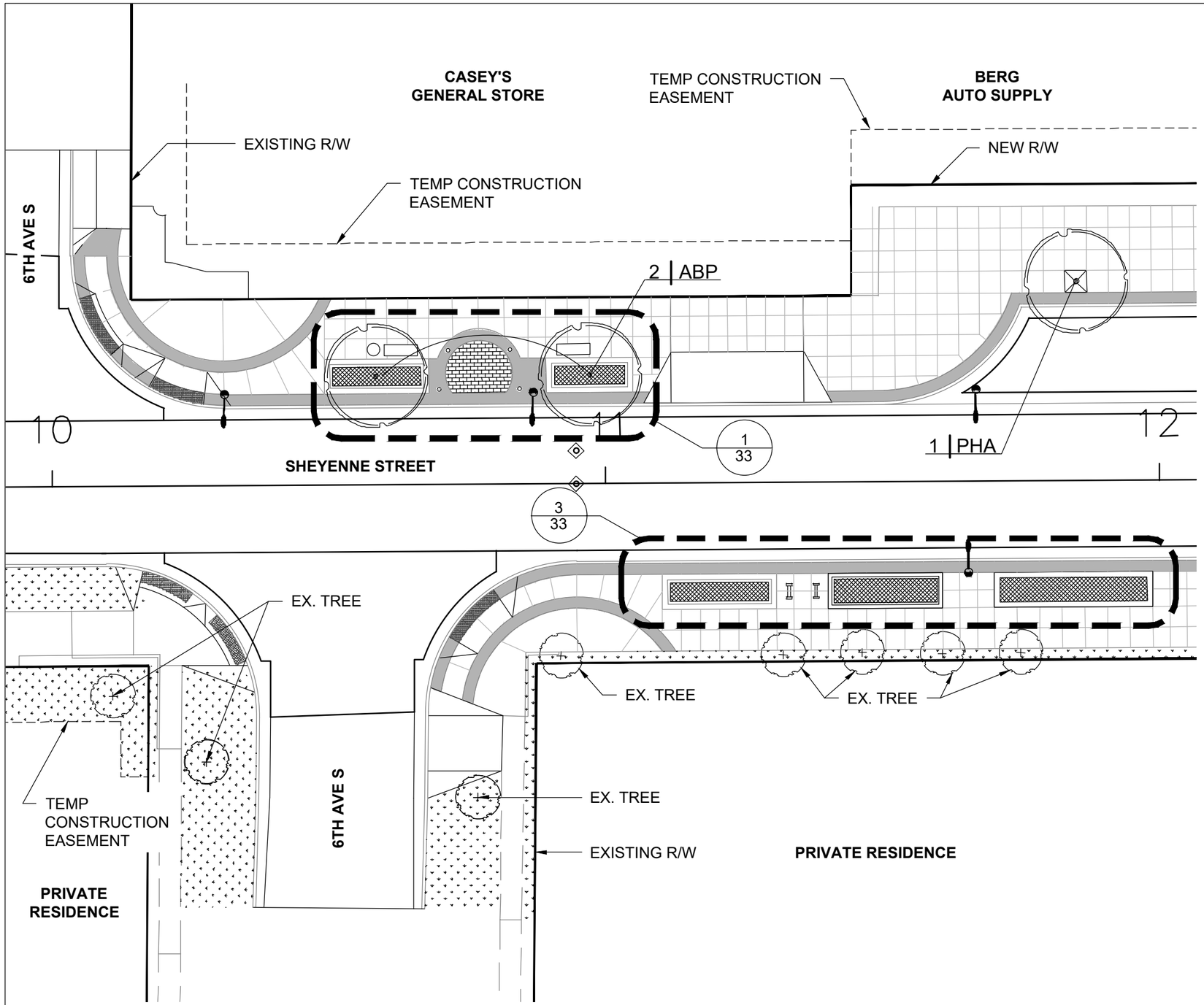
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LS-3
HARDSCAPE PLAN
STA 10+00 TO STA 12+00

REVISED 11/03/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992 (041)	85	18



QUANTITIES (THIS SHEET)

970	0074	Wood Mulch	
			3 CY
970	1000	Trees	
		STA 10+59.6' - 19.7' LT	1 EA
		STA 10+97.2' - 19.7' LT	1 EA
		STA 11+85.1' - 36.0' LT	1 EA

GROUNDCOVER LEGEND

- DOUBLE-SHREDDED HARDWOOD MULCH
- HYDROSEED TURF, SEE SECTIONS 76 & 77

NOTES:
NO TEMPORARY CONSTRUCTION EASEMENT ON EAST SIDE OF SHEYENNE ST. FROM 6TH AVE. S. TO 5TH AVE. S.

0' 10' 20' 40'

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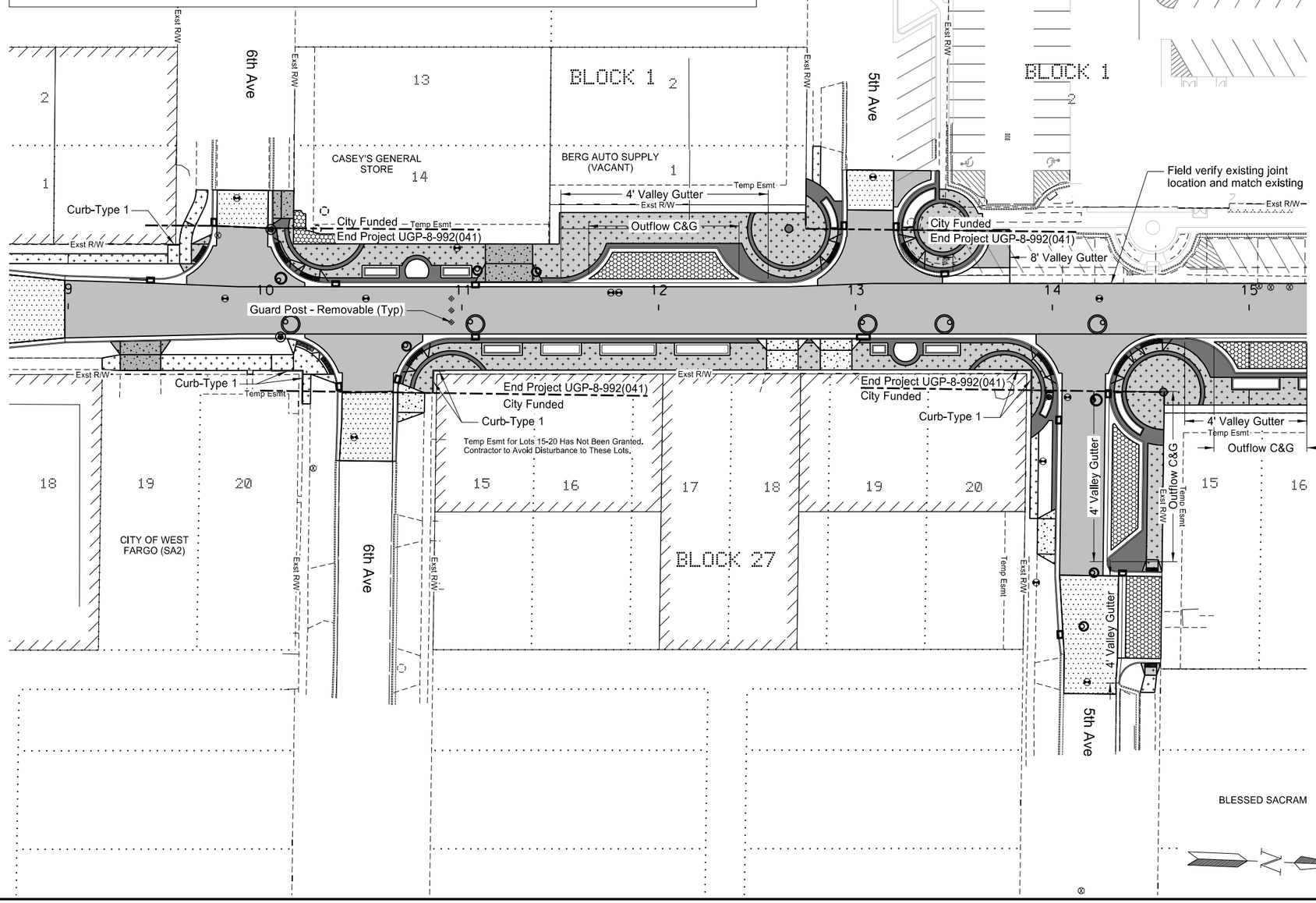
UGP-8-992 (041)
CITY OF WEST FARGO, NORTH DAKOTA
SHEYENNE STREET

CONFLUENCE

LP-3
LANDSCAPE PLAN
STA 10+00 TO STA 12+00

Revised	11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	UGP-8-992(041)	90	2

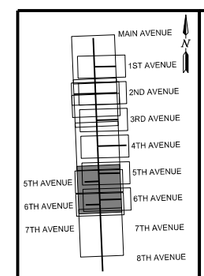
SPEC CODE	BID ITEM	QTY	UNIT
750 0030	PIGMENTED IMPRINTED CONCRETE		
	Sta 10+04 to 12+93 Lt	127	SY
	Sta 10+68 to 14+02 Rt	88	SY
	Sta 13+22 to 13+78 Lt	20	SY
	Sta 14+29 to 15+00 Rt	58	SY
750 0115	SIDEWALK CONCRETE 4IN		
	Sta 9+00 to 9+72 Lt	52	SY
	Sta 9+17 to 10+36 Rt	114	SY
750 0120	SIDEWALK CONCRETE 5IN REINF		
	Sta 10+04 to 12+93 Lt	485	SY
	Sta 10+68 to 14+02 Rt	325	SY
	Sta 13+22 to 13+78 Lt	98	SY
	Sta 14+29 to 15+00 Rt	133	SY
750 1016	DRIVEWAY CONCRETE 6IN REINFORCED		
	Sta 12+50 to 12+75 Rt	31	SY
	Sta 12+77 to 13+03 Rt	31	SY
750 1000	DRIVEWAY CONCRETE		
	Sta 11+07 to 11+41 Lt	56	SY
	Sta 9+21 to 9+52 Rt	42	SY
750 2115	DETECTABLE WARNING PANELS		
	Sta 9+66 28.3' Lt	18.9	SF
	Sta 10+08 29.1' Lt	22.7	SF
	Sta 10+22 17.0' Lt	18.9	SF
	Sta 10+22 18.8' Rt	18.9	SF
	Sta 10+32 28.4' Rt	18.9	SF
	Sta 10+73 27.6' Rt	22.7	SF
	Sta 12+89 29.2' Lt	22.7	SF
	Sta 13.27 29.0' Lt	22.7	SF
	Sta 13+97 26.9' Rt	26.5	SF
	Sta 14+35 27.2' Rt	22.7	SF
	Sta 14+50 16.3' Rt	22.7	SF
990 0221	GUARD POST-REMOVEABLE		
	Sta 10+95 6' Rt to 6' Lt	3	EA
302 0121	AGGREGATE BASE COURSE CL 5		
	Sta 9+00 to 15+00	854	CY
	Sidewalk & Pigment Imprinted Concrete	167	CY
	Driveways	18	CY
550 0106	7IN REINF CONCRETE PAVEMENT CL AE		
	Sta 10+14 to 10+36 Lt	15	SY
	Sta 11+64 to 12+40 Lt	92	SY
	Sta 14+82 to 15+00 Rt	16	SY
550 0117	9IN NON-REINF CONCRETE PVMT CL AE		
	Sta 9+00 to 15+00	1664	SY
	Sta 9+45 to 10+31 Lt	126	SY
	Sta 10+09 to 10+95 Rt	122	SY
	Sta 12+68 to 13+44 Lt	113	SY
	Sta 13+75 to 14+56 Rt	108	SY
748 0190	CURB & GUTTER-TYPE I 30IN		
	Sta 9+00 to 15+00 Lt	508	LF
	Sta 9+00 to 15+00 Rt	620	LF
748 0520	CURB-TYPE I		
	Sta 9+50 33.5' Lt to 9+56 33.5' Lt	6	LF
	Sta 10+03 31.0' Rt to 10+19 41.1' Rt	26	LF
	Sta 10+86 41.9' Rt to 10+91 30.9' Rt	17	LF
	Sta 13+74 30.7' Rt to 13+89 40.6' Rt	24	LF
748 1080	VALLEY GUTTER-TYPE I 48IN		
	Sta 11+60 to 12+45 Lt	47	SY
	Sta 13+44 to 13+78 Lt	9	SY
	Sta 14+80 to 15+00 Rt	10	SY



LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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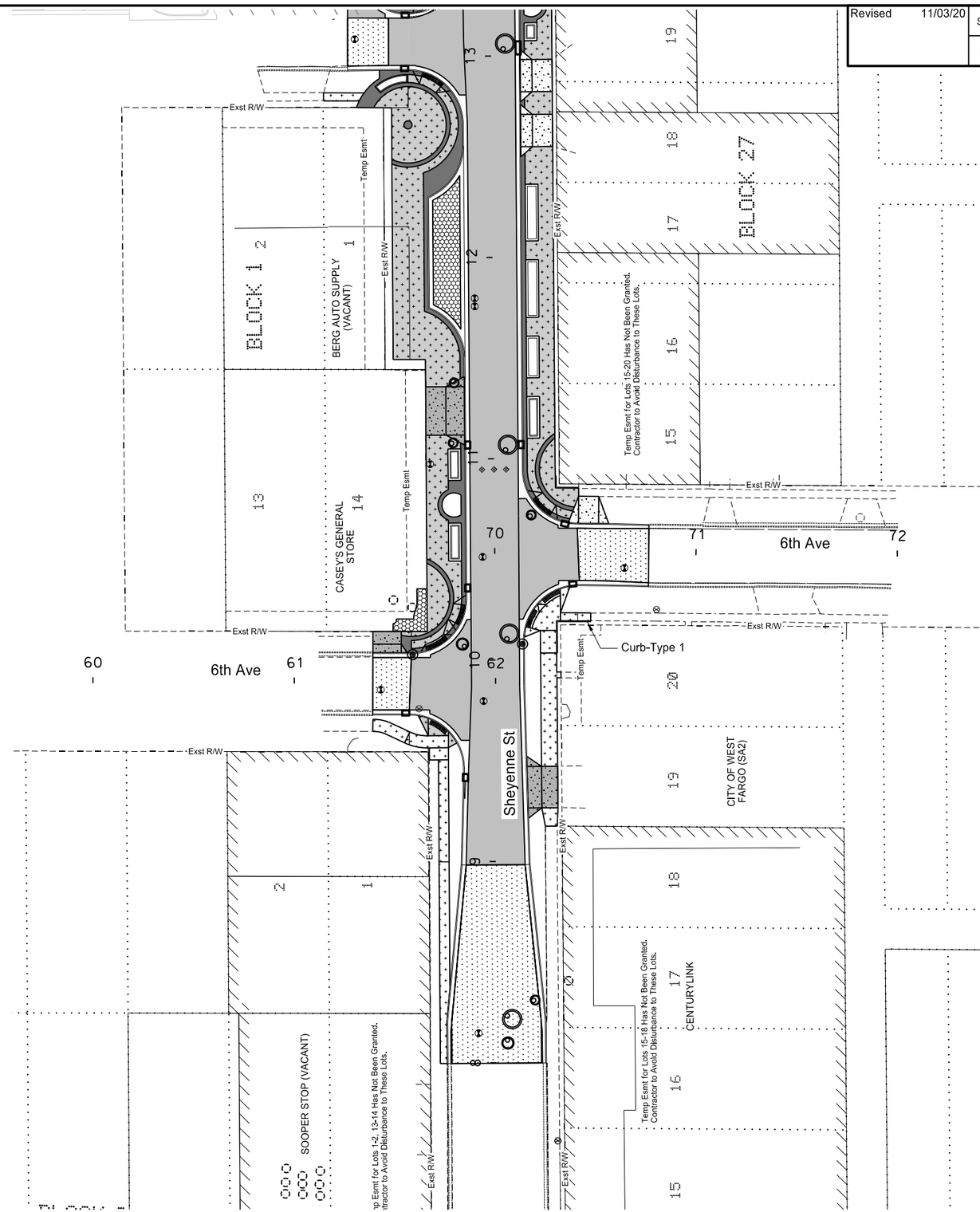
Sheyenne Street

Paving Layouts

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	90	6

SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 61+39 to 61+58 (City Funded)	22	CY
		Sidewalk (City Funded)	2	CY
		Driveways (City Funded)	2	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 61+39 to 61+58 (City Funded)	16	TON
550	0106	7IN REINF CONCRETE PAVEMENT CL AE		
		Sta 61+49 to 61+58 Lt (City Funded)	6	SY
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 61+39 to 61+57 Rt (City Funded)	18	LF
		Sta 61+39 to 61+58 Lt (City Funded)	19	LF
750	0030	PIGMENTED IMPRINTED CONCRETE		
		Sta 61+53 to 61+58 Lt (City Funded)	3	SY
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 61+39 to 61+58 Rt (City Funded)	13	SY
750	0120	SIDEWALK CONCRETE 5IN REINF		
		Sta 61+53 to 61+58 Lt (City Funded)	1	SY
750	1000	DRIVEWAY CONCRETE		
		Sta 61+39 to 61+58 Lt (City Funded)	18	SY

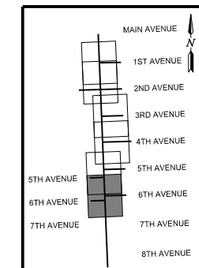


SPEC	CODE	BID ITEM	QTY	UNIT
302	0121	AGGREGATE BASE COURSE CL 5		
		Sta 70+41 to 70+77 (City Funded)	42	CY
		Sidewalk (City Funded)	0	CY
		Driveways (City Funded)	2	CY
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT		
		Sta 70+41 to 70+77 (City Funded)	31	TON
748	0520	CURB-TYPE I		
		Sta 70+42 to 70+48 Rt (City Funded)	6	LF
748	0190	CURB & GUTTER-TYPE I 30IN		
		Sta 70+41 to 70+77 Lt (City Funded)	34	LF
		Sta 70+41 to 70+77 Rt (City Funded)	36	LF
750	0115	SIDEWALK CONCRETE 4IN		
		Sta 70+41 to 70+48 Rt (City Funded)	3	SY
750	1016	DRIVEWAY CONCRETE 6IN REINFORCED		
		Sta 70+41 to 70+77 Lt (City Funded)	22	SY

LEGEND

- 9IN NON REINF CONCRETE PVMT CL AE
- 7IN REINF CONCRETE PVMT CL AE
- 5.5IN HBP
- DRIVEWAY CONCRETE 7IN REINFORCED
- SIDEWALK CONCRETE 5IN REINF
- SIDEWALK CONCRETE 4IN REINF
- PIGMENTED IMPRINTED CONCRETE
- DRIVEWAY CONCRETE 6IN REINFORCED

NOTE:
Keep manhole castings out of wheel path.



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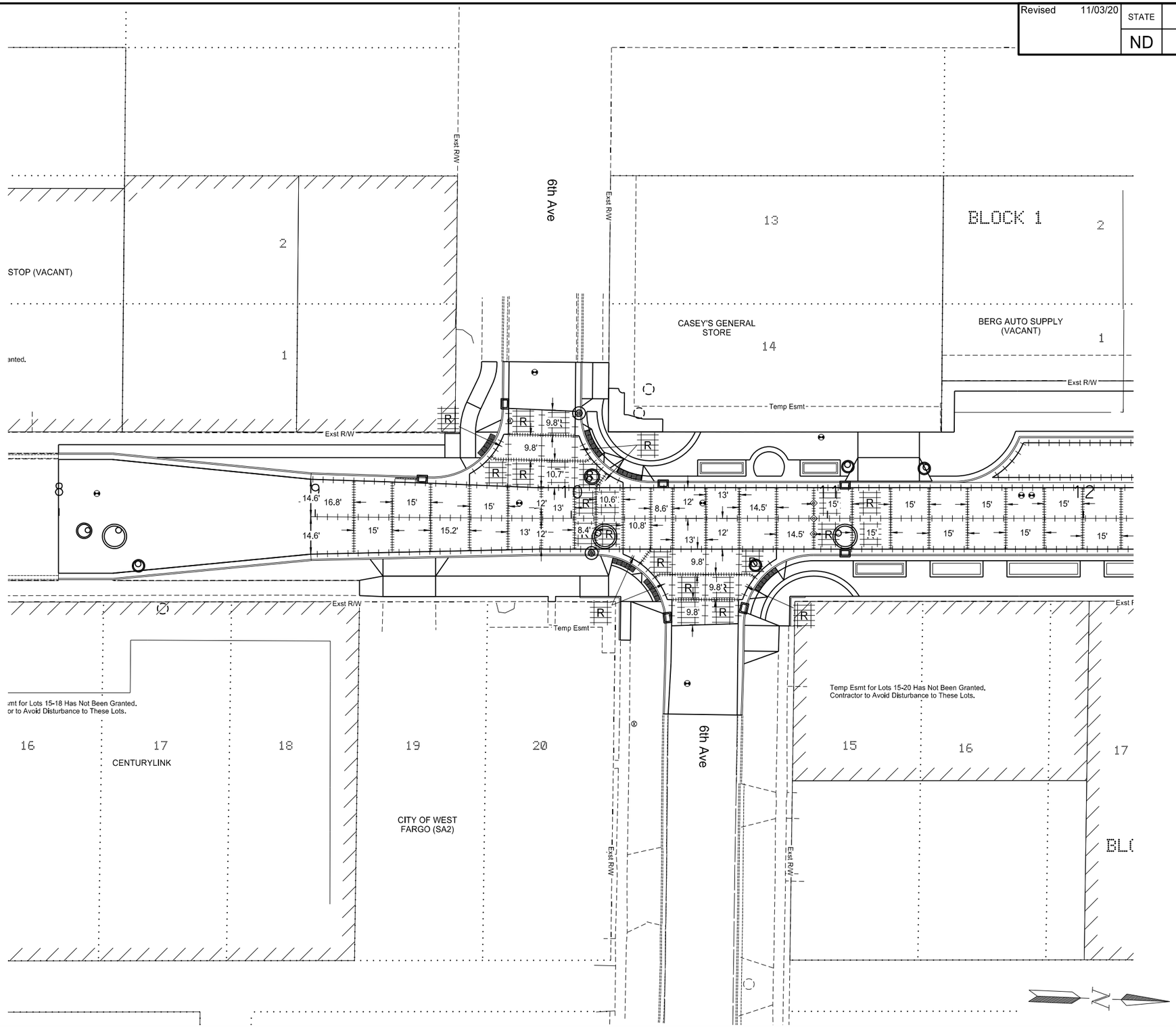
6th Ave

Paving Layouts

Sta 60+00 to Sta 62+00 (PR6TH_W)
Sta 70+00 to Sta 72+00 (PR6TH_E)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	90	12



LEGEND

- PAVEMENT REINFORCEMENT
- DOWELED JOINT
- TIED JOINT W/ HOT POUR SEAL
- UNTIED JOINT
- 2" CORE HOLE

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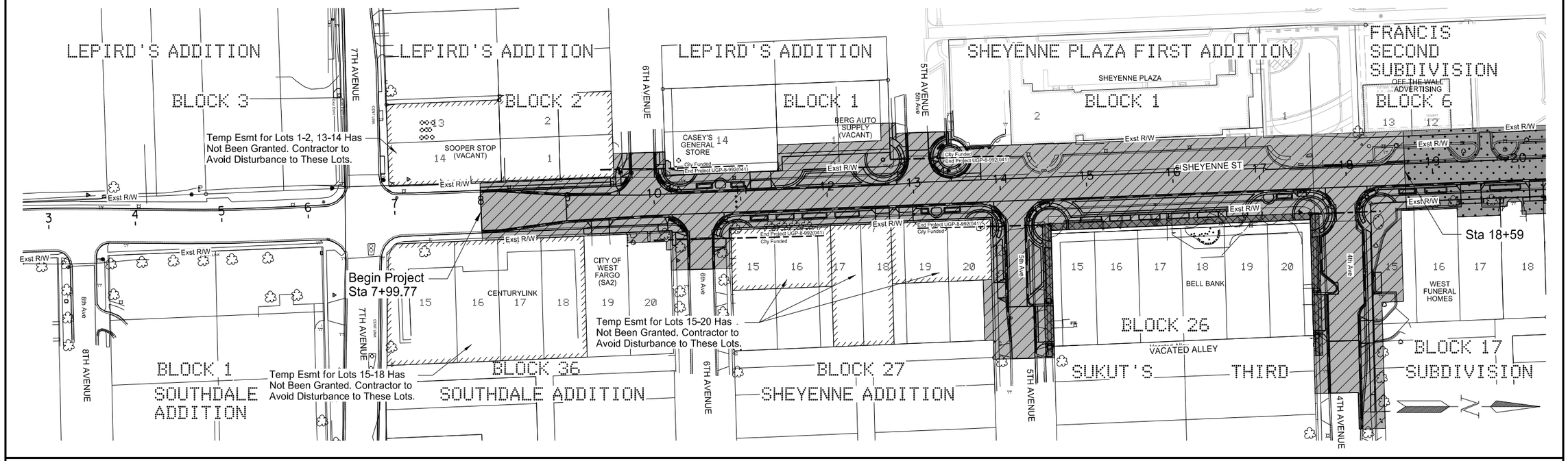
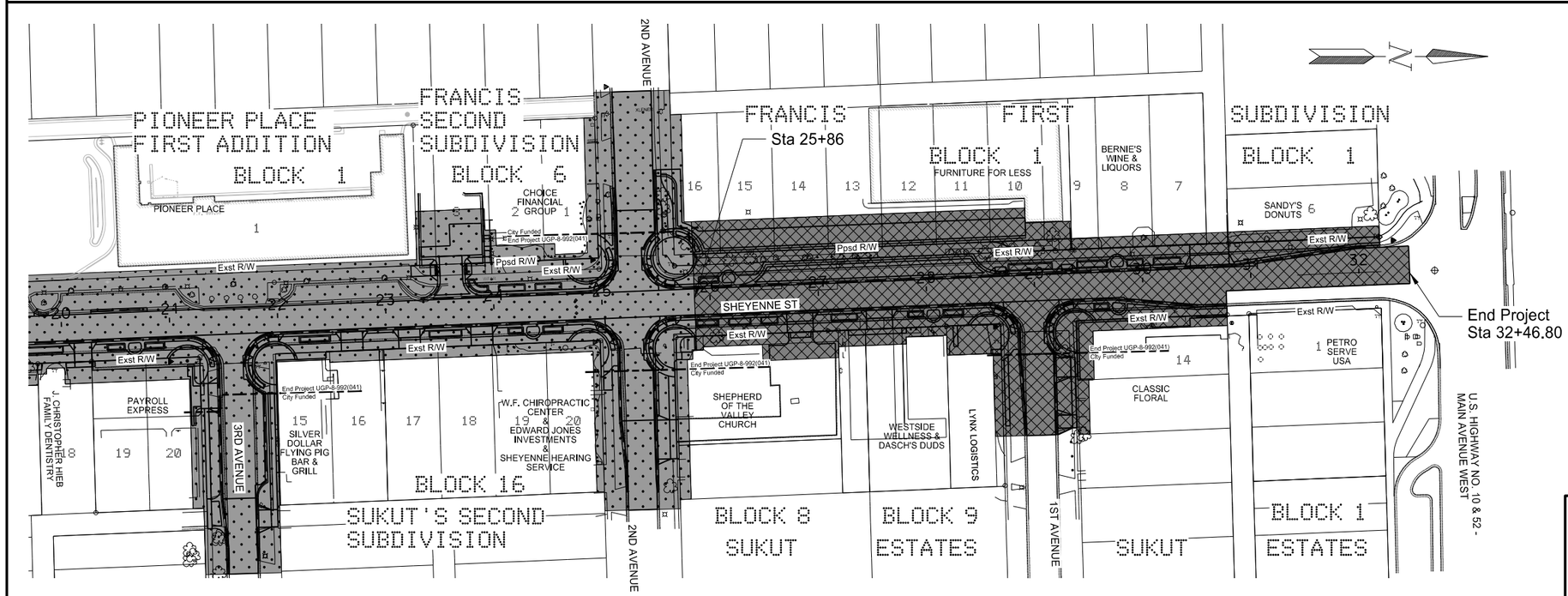
Sheyenne Street

Paving Layouts

Sta 8+00 to Sta 12+00 (PRSHEYENNE)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	4





LEGEND

- PHASE 1
- PHASE 2
- PHASE 3

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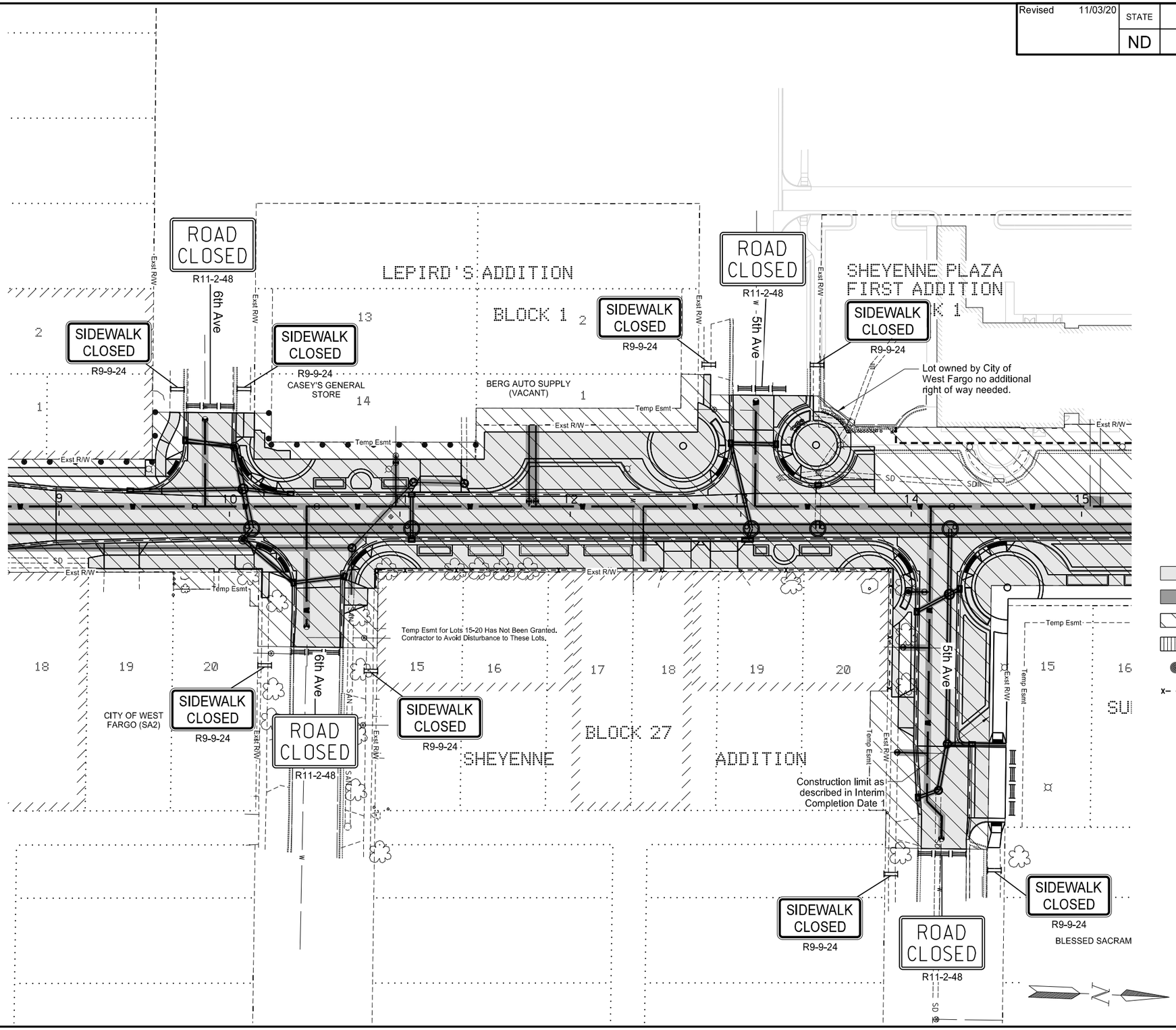
Sheyenne Street

Work Zone Traffic Control

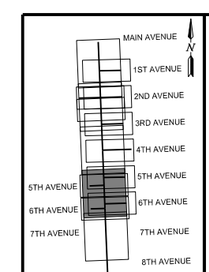
Phasing Overview

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	100	8



LEGEND

- PAVING WORK AREA
- UNDERGROUND WORK AREA
- CONSTRUCTION ZONE
- TEMPORARY ASPHALT
- DELINEATOR DRUM
- TEMPORARY SAFETY FENCE
- TYPE III BARRICADE
- SIGN
- SIDEWALK BARRICADE
- TRAFFIC FLOW
- PEDESTRIAN CHANNELIZATION



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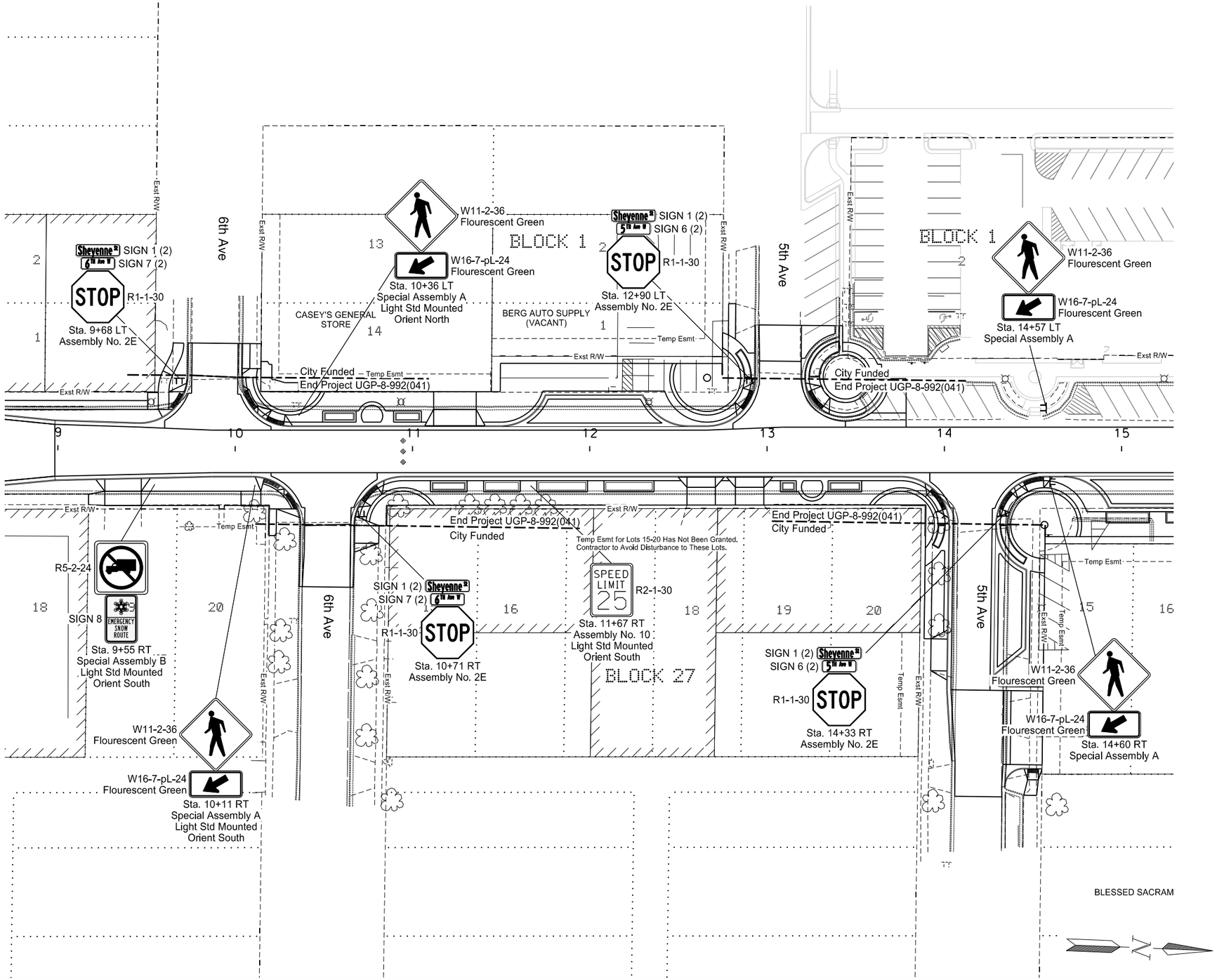
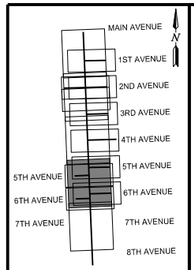
Sheyenne Street

Work Zone Traffic Control
Phase 1
Sta 9+00 to Sta 15+00 (PRSHEYENNE)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	110	8





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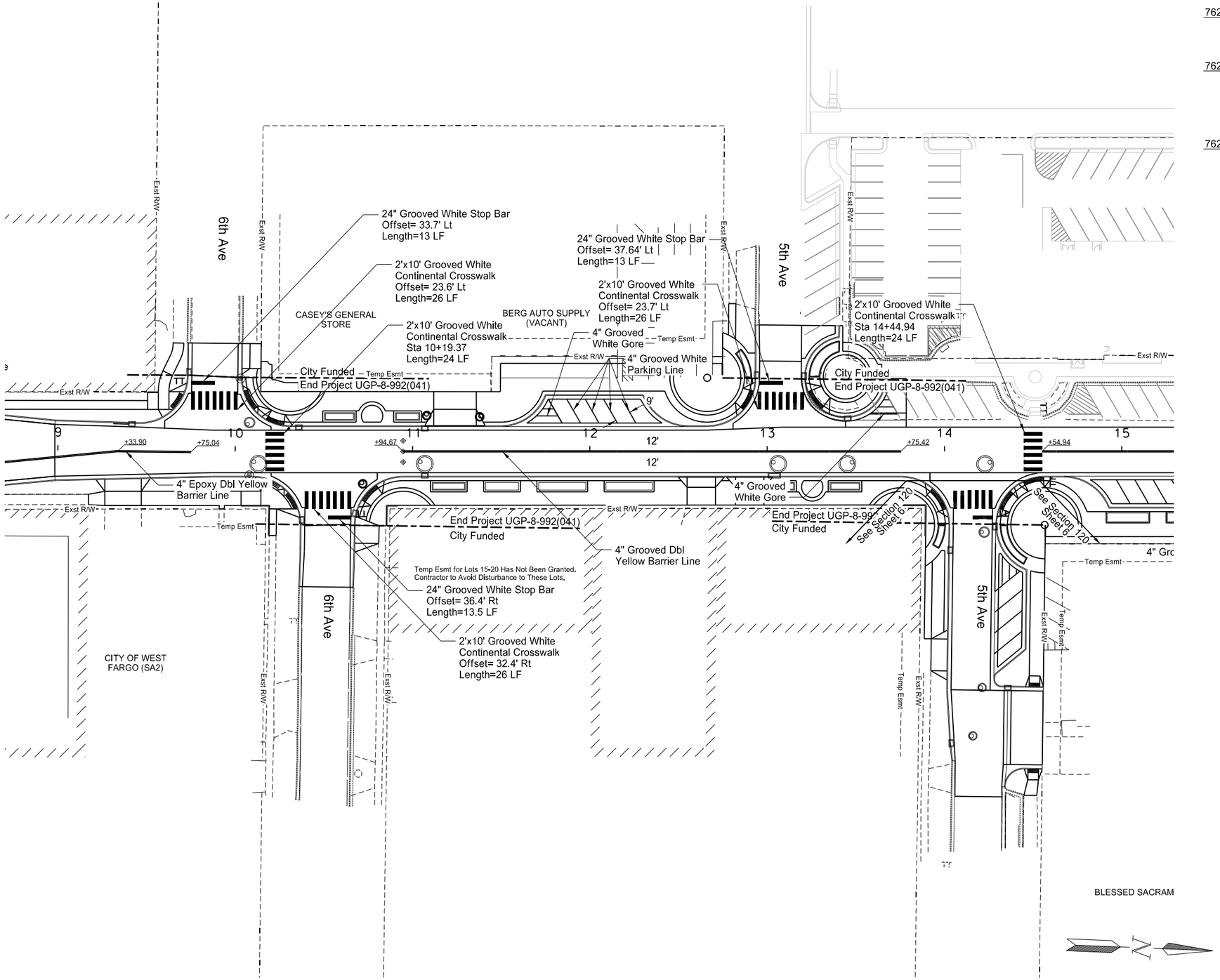
Sheyenne Street

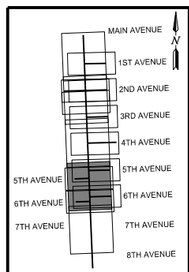
Signing - Proposed

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	120	2

SPEC CODE	BID ITEM	QTY	UNIT
762 0113	EPOXY PVMT MK 4IN LINE		
	Yellow Dbl Barrier	150	LF
762 1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED		
	Yellow Dbl Barrier	962	LF
	White Gore	95	LF
	White Parking Line	68	LF
762 1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED		
	White Continental Crosswalk	330	LF
	White Stop Bar	40	LF





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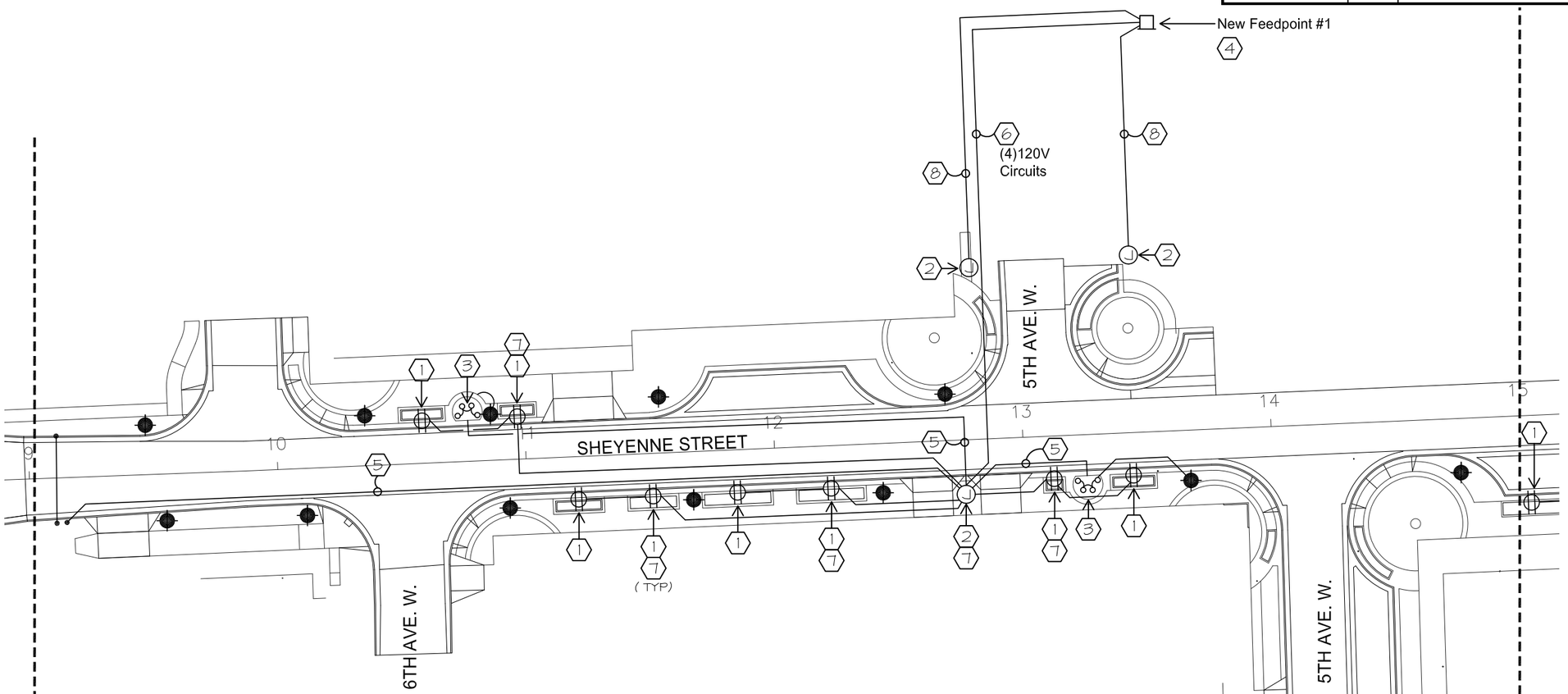
Sheyenne Street

Pavement Marking

Sta 9+00 to Sta 15+00 (PRSHEYENNE)

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	6



PLAN NOTES (SHEETS 6-9):

1. FURNISH AND INSTALL OUTDOOR GROUND BOX IN RAISED PLANTERS AND SEAT WALL PLANTERS WHERE SHOWN. THE GROUND BOX SHALL BE INSTALLED AT CENTER OF PLANTER ON THE STREET SIDE. THE GROUND BOX SHALL BE LEGRAND XB814 MODEL WITH XB814C520BN EXTERIOR BOX COVER ASSEMBLY PRE-WIRED WITH (2) WEATHER RESISTANT DUPLEX RECEPTACLES CONFIGURED FOR SINGLE CIRCUIT FEED. BROWN FINISH, TYPE 6P AND IP68 RATED FOR OUTDOOR LOCATIONS..

2. PROVIDE A 24"X24"X24"D. POLYMER CONCRETE IN-GROUND J-BOX EQUAL TO QUAZITE, HOFFMAN OR APPROVED EQUAL. IN-GROUND J-POINTS SHALL BE AS LOCATED BY FIELD ENGINEER. J-POINTS SHALL BE GRAY IN COLOR WITH COVER STAMPED 'ELECTRIC'.

3. PROVIDE (4) IN-GROUND LED LIGHT FIXTURES AT "FOCUS AREA" LOCATIONS SHOWN. FIXTURES SHALL BE LOCATED AS SHOWN ON THE HARDSCAPE PLAN SHEET DETAILS. FURNISH AND INSTALL AS DESCRIBED IN THE PLAN NOTES.

4. FURNISH AND INSTALL A NEW POWER DISTRIBUTION FEED-POINT AS DESCRIBED IN THE PLAN NOTES.

5. PROVIDE 1"C. FROM EACH "FOCUS AREA" TO THE NEAREST POWER JUNCTION POINT AS SHOWN. ROUTE TO EDGE OF PAVER BLOCK INLAY. STUB-UP TO 5" BELOW GRADE AND CAP FOR FUTURE USE FOR POWER CONNECTIONS.

6. PROVIDE $1\frac{1}{4}$"C., (2)#8(120V CIRCUIT) FOR EACH RECEPTACLE CIRCUIT AT EACH LOCATION. THE QUANTITY OF HOME-RUN CIRCUITS IS SHOWN ON PLAN. PULL IN (1)#10G.

7. PROVIDE $\frac{3}{4}$"C., TO CONNECT GROUND BOX TO IN-GROUND J-POINT. PROVIDE $\frac{3}{4}$"C. BETWEEN GROUND BOXES AS SHOWN. PULL IN (2)#10+G. WIRE AND CONNECT TO CIRCUIT BREAKER AT FEEDPOINT. USE WATER TIGHT GEL-CAP TYPE CONNECTORS.

8. PROVIDE 2"C. FROM FEEDPOINT TO IN-GROUND JUNCTION POINTS AT THE 5TH AVE LOCATION. PROVIDE 2"C. FROM FEEDPOINT TO THE LIGHT POLE BASE AT THE 4TH AVE AND 2ND AVE LOCATION. THE 2"C. SHALL BE ROUGHED INTO POLE BASE ADJACENT TO BASE COVER FOR FUTURE USE BY OWNER.

Light bases shall be located as staked by Field Engineer.

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N

Sheyenne Street

Power / In-Ground Lighting

Sta 09+00 to Sta 15+00

Revised 11/03/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	UGP-8-992(041)	140	10

North Circuit #1						
Light Std Number	Station	Cable Trench Type 1		Cable Runs		
		LF	Dia.	LF	Type	
EX LU#1	Sta 23+34 to Sta 24+00	66	2"	132 132 66	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	Lights Circuit Receptacle Circuit Ground
LU#1 LU#2	Sta 24+00 to Sta 24+88	88	2"	176 176 88	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#2 LU#3	Sta 24+88 to Sta 25+75	87	2"	174 174 87	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#3 LU#4	Sta 25+75 to Sta 26+56	81	2"	162 162 81	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#3 LU#42	Sta 25+75 to Sta 25+62	91	2"	182 182 91	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#4 LU#5	Sta 26+56 to Sta 27+06	50	2"	100 100 50	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#5 LU#6	Sta 27+06 to Sta 27+80	74	2"	148 148 74	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#6 LU#7	Sta 27+80 to Sta 28+50	70	2"	140 140 70	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#7 LU#8	Sta 28+50 to Sta 29+34	84	2"	168 168 84	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#8 LU#9	Sta 29+34 to Sta 30+37	103	2"	206 206 103	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#9 LU#10	Sta 30+37 to Sta 31+13	76	2"	152 152 76	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
		870		1740 1740 91		

The existing multi-wire branch circuit in place at hand-hole shall be reused to feed North Circuit #1.

North Circuit #2						
Light Std Number	Station	Cable Trench Type 1		Cable Runs		
		LF	Dia.	LF	Type	
J-point LU#11	Sta 13+50 to Sta 13+67	69	2"	138 69 69	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	Lights Circuit Receptacle Circuit Ground
LU#11 LU#12	Sta 13+67 to Sta 14+78	111	2"	222 222 111	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#12 LU#13	Sta 14+78 to Sta 16+25	147	2"	294 294 147	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#12 LU#39	Sta 14+78 to Sta 14+37	112	2"	224 224 112	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#13 LU#14	Sta 16+25 to Sta 17+59	134	2"	268 268 134	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#14 LU#15	Sta 17+59 to Sta 18+40	81	2"	162 162 81	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#15 LU#16	Sta 18+40 to Sta 19+23	83	2"	166 166 83	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#15 LU#40	Sta 18+40 to Sta 18+13	150	2"	300 150 150	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#16 LU#17	Sta 19+23 to Sta 20+36	113	2"	226 113 113	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#17 LU#18	Sta 20+36 to Sta 21+18	84	2"	168 168 84	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#18 LU#19	Sta 21+18 to Sta 22+12	94	2"	188 188 94	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#19 LU#20	Sta 22+12 to Sta 22+91	79	2"	158 158 79	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#19 LU#41	Sta 22+12 to Sta 21+84	160	2"	320 320 160	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#20 LU#21	Sta 22+91 to Sta 24+06	115	2"	230 115 115	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#21 LU#22	Sta 24+06 to Sta 24+90	84	2"	168 84 84	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#22 LU#23	Sta 24+90 to Sta 25+79	89	2"	178 178 89	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#23 LU#24	Sta 25+79to Sta 26+40	61	2"	122 122 61	(2) No.6 RHW (2) No.6 RHW (2) No.6 RHW	
LU#24 LU#25	Sta 26+40 to Sta 27+06	66	2"	132 132 66	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#25 LU#26	Sta 27+06 to Sta 27+78	72	2"	144 144 72	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#26 LU#27	Sta 27+78 to Sta 28+53	75	2"	150 150 75	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
LU#27 LU#28	Sta 28+53 to Sta 29+50	97	2"	194 194 97	(2) No.6 RHW (2) No.6 RHW (1) No.6 RHW	
		2076		4152 4152 2076		

Light Station locations shown are approximate. Pole bases shall be located as staked by Field Engineer.

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Sheyenne Street

Lighting Data Tables