

November 5, 2020

ADDENDUM 1 – JOB 26

TO: All prospective bidders on Project NH-4-002(125)905, Job No. 26 scheduled for the November 13, 2020 bid opening.

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

Plan Revisions:

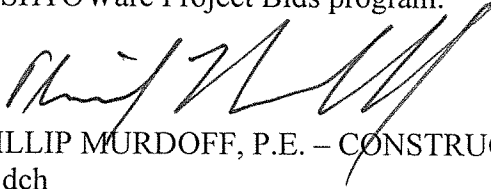
See attached summaries from Paul Benning, P.E. dated November 4, 2020 for an explanation.

Request for Proposal Revisions:

Remove and replace pages 5 thru 9 of 11 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:	NHU-4-002(131)906	PCN: 22446
Location:	US 2B (Burdick Expy) – 1 st St SW to Valley Street	
Date:	11/03/2020	Lead Designer: Apex Engineering Group
Bid Opening Date:	11/13/2020	JOB#: 26 Addendum#: 1


PLAN SHEET CHANGES		
Section	Sheet	Description
6	2	Revised Plan Note 704-P03
6	5	Revised Plan Note 772-P03
6	8	Revised Plan Note 772-P21
8	1	Revised quantities for Flat Sheet for Signs – Type XI and Flat Sheet for Signs – Type IV
100	4	Removed “NE” from the 2 nd St listings in upper left corner
150	14	Removed transformer base from Pushbutton #1 Post
150	15	Removed transformer base from Pushbutton #3/#4 Post and #4/#3 Post; Revised labeling for Pushbutton Post #4/#3 to #7/#8
150	23	Removed transformer base from Pushbutton #5 Post
150	24	Removed transformer base from Pushbutton #3 Post; Removed transformer base from Pushbutton #7/#8 Post
150	32	Added transformer base to signal poles

CHANGES MADE TO BID ITEMS FOR JOB					
Spec	Code	Description	Unit	Previous Quantity	Revised Quantity
754	0110	Flat Sheet for Signs-Type XI Refl Sheeting	SF	235	234.8
754	0112	Flat Sheet for Signs-Type IV Refl Sheeting	SF	242	290

APPROVAL

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

 X Yes No



Paul Benning, P.E. – Local Government Engineer

11/4/2020

Date

BID ITEMS

Projects: NHU-4-002(131)906 (PCN-22446) and NH-4-002(125)905 (PCN-22216)

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	202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	2,091.				
003	202	0130	REMOVAL OF CURB & GUTTER	LF	3,004.				
004	202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	1,540.				
005	261	0200	WEIGHTED FIBER ROLLS	LF	640.				
006	261	0201	REMOVE WEIGHTED FIBER ROLLS	LF	640.				
007	302	0121	AGGREGATE BASE COURSE CL 5	CY	10.				
008	401	0050	TACK COAT	GAL	720.				
009	411	0114	MILLING PAVEMENT SURFACE - 2 INCH	SY	14,434.				
010	430	0045	SUPERPAVE FAA 45	TON	1,603.				
011	430	1000	CORED SAMPLE	EA	14.				
012	430	2000	PATCHING	TON	469.				
013	430	5806	PG 58H-28 ASPHALT CEMENT	TON	97.				
014	550	0113	8IN REINF CONCRETE PAVEMENT CL AE	SY	60.				
015	624	0119	REMOVE PEDESTRIAN RAILING	LF	6.				
016	624	0121	RESET PEDESTRIAN RAILING	LF	12.				

BID ITEMS

Projects: NHU-4-002(131)906 (PCN-22446) and NH-4-002(125)905 (PCN-22216)

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Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
017	702	0100	MOBILIZATION	L SUM	1.				
018	704	0100	FLAGGING	MHR	150.				
019	704	1000	TRAFFIC CONTROL SIGNS	UNIT	2,591.				
020	704	1052	TYPE III BARRICADE	EA	6.				
021	704	1058	PEDESTRIAN WALKWAY	LF	1,425.				
022	704	1060	DELINEATOR DRUMS	EA	417.				
023	704	1067	TUBULAR MARKERS	EA	203.				
024	704	1086	SEQUENCING ARROW PANEL-TYPE B	EA	1.				
025	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	3.				
026	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	2,240.				
027	704	2108	TEMPORARY CURB RAMP	EA	38.				
028	706	0550	BITUMINOUS LABORATORY	EA	1.				
029	706	0600	CONTRACTOR'S LABORATORY	EA	1.				
030	708	1540	INLET PROTECTION-SPECIAL	EA	68.				
031	708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	68.				
032	722	3455	CASTING INLET-TYPE 1	EA	15.				

BID ITEMS

Projects: NHU-4-002(131)906 (PCN-22446) and NH-4-002(125)905 (PCN-22216)

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
033	722	3460	CASTING INLET-TYPE 2	EA	6.				
034	722	6140	ADJUST GATE VALVE BOX	EA	19.				
035	722	6160	ADJUST INLET	EA	9.				
036	722	6200	ADJUST MANHOLE	EA	22.				
037	722	6240	ADJUST UTILITY APPURTENANCE	EA	9.				
038	724	0270	REMOVE GATE VALVE & BOX	EA	1.				
039	724	0300	GATE VALVE & BOX 6IN	EA	1.				
040	724	0411	6IN HYDRANT	EA	1.				
041	724	0430	REMOVE HYDRANT	EA	1.				
042	748	0100	CURB & GUTTER	LF	2,634.				
043	748	0120	CURB & GUTTER MOUNTABLE-TYPE I	LF	333.				
044	748	0520	CURB-TYPE I	LF	493.				
045	748	1030	VALLEY GUTTER 72IN	SY	63.				
046	750	0030	PIGMENTED IMPRINTED CONCRETE	SY	138.				
047	750	0115	SIDEWALK CONCRETE 4IN	SY	2,020.				
048	750	2115	DETECTABLE WARNING PANELS	SF	1,120.				

BID ITEMS

Projects: NHU-4-002(131)906 (PCN-22446) and NH-4-002(125)905 (PCN-22216)

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
049	754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	234.800				
050	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	290.				
051	754	0170	FLEXIBLE DELINEATORS	EA	11.				
052	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	392.				
053	754	0592	RESET SIGN PANEL	EA	27.				
054	754	0593	RESET SIGN SUPPORT	EA	1.				
055	762	0110	EPOXY PVMT MK 4IN LINE-GROOVED	LF	5,285.				
056	762	0112	EPOXY PVMT MK MESSAGE	SF	128.				
057	762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	5,285.				
058	762	1307	PREFORMED PATTERNED PVMT MK 6IN LINE-GROOVED	LF	3,976.				
059	762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED	LF	268.				
060	762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	LF	1,527.				
061	770	4525	REVISE LIGHTING SYSTEM	EA	1.				
062	772	2145	FLASHING BEACON-MA MOUNTED	EA	1.				
063	772	3150	REMOVE FLASHING BEACON SYSTEM	EA	1.				
064	772	9811	TRAFFIC SIGNAL SYSTEM - SITE 1	EA	1.				

BID ITEMS

Projects: NHU-4-002(131)906 (PCN-22446) and NH-4-002(125)905 (PCN-22216)

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
065	772	9812	TRAFFIC SIGNAL SYSTEM - SITE 2	EA	1.				
066	772	9813	TRAFFIC SIGNAL SYSTEM - SITE 3	EA	1.				
067	772	9814	TRAFFIC SIGNAL SYSTEM - SITE 4	EA	1.				
068	970	0008	LANDSCAPE PREPARATION	SY	361.				
			TOTAL SUM BID						

NOTES

Revised 11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(131)906	6	2

704-P01 TRAFFIC CONTROL PHASING: The traffic control details, as indicated on the plans, have been developed on the basis that this project will be constructed in phases as described below. The work zone traffic control summary lists include the required number of devices for each phase of work. Devices will be moved as required for each phase. The following traffic control phasing for the construction of pedestrian ramps, new curb and gutter, signals, lighting, and mill & overlay has been developed for this project:

Phase 1: Construct proposed ADA Ramps on South Side of Burdick Expressway.

- Work area is restricted to a maximum of two quadrants of an intersection at one time. Multiple intersections can be worked on concurrently, no more than three intersections can be worked on concurrently. No two consecutive signalized intersections can be worked on concurrently.
- (1) Lane closure adjacent to the curb and gutter.
- Maintain two lanes of traffic at all times.
- Provide temporary curb ramps, pedestrian channelization, and temporary pedestrian surfacing.
- Construct proposed pedestrian ADA ramps at all intersections, including new curb and gutter, ramps, landings (upper and lower landings), signal foundations (where applicable), and full depth pavement replacement (where applicable).
- Provide temporary pedestrian surfacing to transition proposed sidewalk into existing sidewalk. If the cross slope of the existing sidewalk exceeds 2%, transition the temporary pedestrian surfacing at a maximum rate of 0.5% per 1 linear foot of surfacing.

Phase 2: Construct proposed ADA Ramps on North Side of Burdick Expressway using the same requirements as Phase 1.

Phase 3: Mill and overlay pavement on Burdick Expressway, install permanent pavement markings, signals, and lighting utilizing lane closures and flagging.

- Complete Phase 1 & 2 prior to starting Phase 3.
- Work area limited to exterior lanes adjacent to curbs.
- Two lanes closures are provided in this phase.

Phase 4: Mill and overlay pavement on Burdick Expressway and install permanent pavement markings utilizing lane closures and flagging.

- Work area limited to interior (2) middle lanes.
- Two lanes closures are provided in this phase.

704-P02 TRAFFIC CONTROL DEVICES: The traffic control devices list has been developed using the layouts shown in the plans and the following layouts shown on the Standard Drawings:

D-704-25 Type X,
D-704-34 Lane closure

704-P03 TRAFFIC CONTROL DEVICES: Traffic control devices have been provided for a single full lane closure of multiple sites simultaneously, as listed in the phase descriptions in Note 704-P02. Lane closures must remain at all times if there are drop offs within the work zone.

During milling and paving operations, lane closures will be permitted during daylight hours while construction is active. Remove temporary lane closures at the end of each working day. If ordinary operation of intersections is not restored, provide 24-hour flagger operations until normal traffic operation can be restored. No additional payments will be made for flagging if ordinary traffic operation is not restored at the end of each working day.

The following devices remain in place for the duration a construction site is active:

1. W20-1-48 – Road Work Ahead
2. G20-2-48 – End Road Work
3. All pedestrian signing devices – See Section 100
4. All lane narrowing devices
5. Devices adjacent to active work zones
6. Pedestrian temporary railings and curb ramps – See Section 100

706-P01 LABORATORY: Supply a copy machine, with reduction capabilities, and toner for the Bituminous Laboratory. Include the cost for these items in the contract unit price bid for “Bituminous Laboratory”.

708-P01 INLET PROTECTION: Furnish, install and maintain (clean) drainage inlet filter assemblies to collect sediment in surface storm water runoff. Dispose of debris or silt that has accumulated in the bag. Periodic cleaning of the filter is needed as necessary. Remove drainage inlet filter when vegetation has established.

Provide Wimco, Lange IPD, Flexstorm, Danady Curbsack, or an approved equal.

Keep filter in place until after the gradient surfaces are stabilized and the surrounding street is clean of debris. Include all costs related to the material, installation, maintenance, replacement and removal in the price bid for “Inlet Protection-Special”.

This document was originally issued and sealed by Derek Anderson, Registration Number PE-7107, on 11/3/2020 and the original document is stored at the North Dakota Department of Transportation.

NOTES

Revised 11/3/20	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(131)906	6	5

SECTION 150

772-009 PADLOCKS: Obtain padlocks for feed points from the City of Minot.

772-P01 TRAFFIC SIGNAL SYSTEM: Include in the price bid for "Traffic Signal System – Site _" all labor and equipment necessary for the signal system to be fully operational as shown in the plans upon construction completion. This includes but is not limited to, the installation of the following features where applicable; traffic signal standards and foundation, vehicular heads, video detection system, traffic signal controller and all ancillary hardware (conflict monitor, load switch, flasher, etc.), controller cabinet and foundation, and all cable, conduit, junction boxes, and appurtenances to install the traffic signal system completely.

772-P02 SIGNAL POLES AND COMBINATION LIGHT AND SIGNAL STANDARDS: Provide signal poles with rotatable mast arms.

772-P03 TRAFFIC SIGNAL STANDARDS BASE: Provide traffic signal standards with "T" transformer base type standards. Include all costs, labor, materials and equipment necessary for furnishing and installing this item in the price bid for "Traffic Signal System – Site _" and "Flashing Beacon-MA Mounted".

772-P04 TRAFFIC SIGNAL CONTROLLER: Provide Econolite ATC Cobalt G controllers for all intersections. The controllers will be NEMA Standard ATC volume density controllers with the traffic counting capability operational. This also includes any programming and data entry (i.e. signal timing plans) necessary to provide fully functional traffic signal controllers. Coordinate with the City of Minot Traffic Engineer, Stephen Joersz, at 701-857-4100 for signal timing plans to be programmed into the controllers. Include all costs, labor, materials and equipment necessary for programming installing this item in the price bid for "Traffic Signal System – Site _".

772-P05 TRAFFIC SIGNAL CABINET: Provide Econolite Super R 65 cabinet for all intersections. Provide all equipment required to install a fully functioning operational cabinet. This includes but is not limited to the cabinet, battery back-up, detector amplifiers (furnished and installed), other ancillary signal components (such as load switches, conflict monitors, etc.), concrete foundation, and controller cabinet components connected as required to make the new controller equipment operational with the proposed signal equipment. Provide a GFCI receptacle in each controller cabinet. Include all costs, labor, materials and equipment necessary for programming installing this item in the price bid for "Traffic Signal System – Site _".

772-P06 BATTERY BACK-UP: Equip the traffic signal cabinets with an "on-line" type Uninterruptible Power Supply (UPS) that provides power conditioning in both normal and backup mode. Provide UPS that are ethernet capable. Size the UPS to provide backup power to the system for a minimum of 8 hours in full signalized operation with a 450-watt load. Provide aux contacts to put the system into flash operation. The UPS will incorporate full power management and diagnostic function.

The UPS will automatically provide battery back-up power to the controller system with no interruption when the electric utility power supply de-energizes. The UPS will operate such that it does not provide power to the de-energized incoming electric utility service conductors.

Install the UPS in a temperature and humidity controlled environment. Install the UPS in a separate enclosure on the same pad as the signal controller cabinet., Include all materials, labor and equipment necessary to furnish and install the battery back-up in the price bid for "Traffic Signal System – Site _".

772-P07 TRAFFIC SIGNAL CABINET FOUNDATION: Construct a concrete foundation as shown on standard drawing D770-1 along with three spare 2" conduit sweeps. Extend the controller cabinet pad mount foundation so there is a minimum of 3" of clearance from the outside edge of the cabinets to the outside edge of the foundation on any side.

When setting traffic signal cabinet enclosures directly on the concrete foundation, sealant is to be placed on the concrete foundation prior to setting the enclosure. Also, caulk the concrete/enclosure interface both inside and outside of the enclosure.

Furnishing and installing the cabinet foundation is included in the price bid for "Traffic Signal System – Site _".

772-P08 CONTROLLER WORKING SLAB: Install 4" thick controller working slabs that are 6 feet wide and extend a minimum of 4 feet from the face of the controller foundations. Reinforce the slabs with 6" x 6" x 10 GA welded wire fabric and tie the slabs to the controller foundations with 18-inch long #3 rebar spaced 18 inches on center. Provide a slope of .25 inches per foot away from the controller cabinet foundations. Install the slabs to be 2" higher than the closest point of the top of the slab to finished grade. Furnishing and installing the working slabs is included in the price bid for "Traffic Signal System – Site _".

This document was originally issued and sealed by Stephen R. Joersz, Registration Number PE-27822, on 11/3/2020 and the original document is stored at the North Dakota Department of Transportation.

NOTES

772-P21 **FATIGUE CATEGORY:** The contractor is to provide traffic signal standards that meet or exceed the fatigue categories listed below for each traffic signal standard. Include all costs associated with fatigue categories in the price bid for “Traffic Signal System – Site _” and “Flashing Beacon-MA Mounted”.

Location of Signal Standard	Fatigue Category
Site 1 – Burdick Expwy and S Main St	
- Northeast Signal	Category I
- Southwest Signal	Category I
Site 2 – E Burdick Expwy and 3 rd St SE	
- Northwest Signal	Category II
- Southeast Signal	Category II
- Northeast Signal	Category II
- Southwest Signal	Category II
Site 3 – E Burdick Expwy and Valley St/Front St	
- Northwest Signal	Category II
- Southeast Signal	Category II
- Northeast Signal	Category I
- Southwest Signal	Category III
Flashing Beacon – Burdick Expwy and 1 st St SE	
- Northeast Signal	Category II
- Southeast Signal	Category II

772-P22 **PROTECTIVE BOLLARDS:** The contractor is to provide and install hour (4) protective bollards near the E Burdick and 3rd Street SE traffic signal cabinet. The protective bollard is to follow the detail shown on Section 150 Sheet 11. Include all labor and materials associated with the protective bollards in the price bid for “Traffic Signal System – Site 2”.

This document was originally issued and sealed by Stephen R. Joersz, Registration Number PE-27822, on 11/3/2020 and the original document is stored at the North Dakota Department of Transportation.

Estimated Quantities

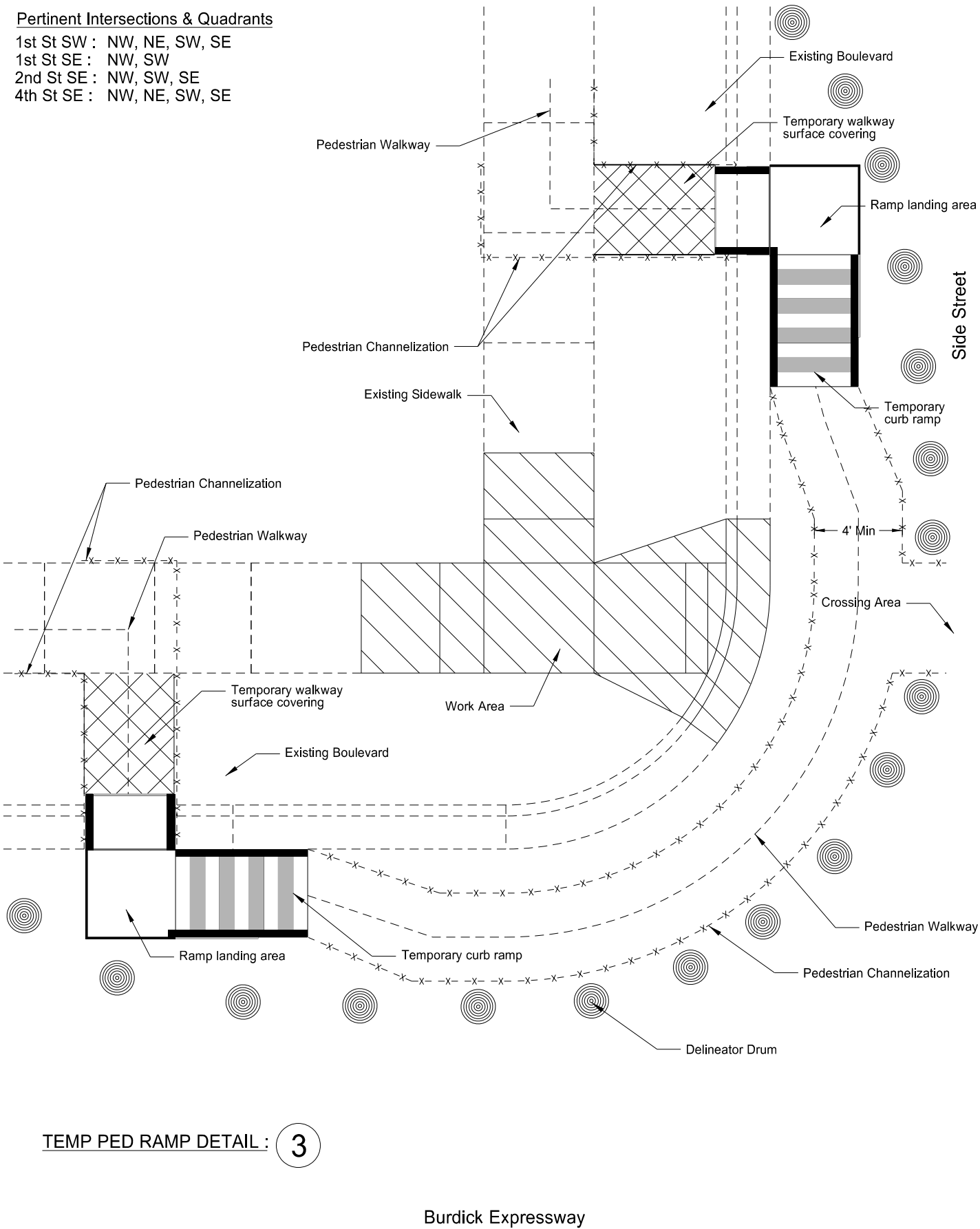
Revised	11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NHU-4-002(131)906	8	1

NH-4-002(125)905

SPEC	CODE	ITEM DESCRIPTION	UNIT	NHU Funding	City Funding	TOTAL
103	0100	CONTRACT BOND	L SUM	0.7		0.7
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	854		854
202	0130	REMOVAL OF CURB & GUTTER	LF	1032		1032
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	957		957
261	0200	WEIGHTED FIBER ROLLS	LF	130		130
261	0201	REMOVE WEIGHTED FIBER ROLLS	LF	130		130
302	0121	AGGREGATE BASE COURSE CL 5	CY	10		10
401	0050	TACK COAT	GAL	720		720
411	0114	MILLING PAVEMENT SURFACE - 2 INCH	SY	14434		14434
430	0045	SUPERPAVE FAA 45	TON	1603		1603
430	1000	CORED SAMPLE	EA	14		14
430	2000	PATCHING	TON	311		311
430	5806	PG 58H-28 ASPHALT CEMENT	TON	97		97
550	0113	8IN REINF CONCRETE PAVEMENT CL AE	SY	60		60
624	0121	RESET PEDESTRIAN RAILING	LF	12		12
702	0100	MOBILIZATION	L SUM	0.7		0.7
704	0100	FLAGGING	MHR	150		150
704	1000	TRAFFIC CONTROL SIGNS	UNIT	1622		1622
704	1058	PEDESTRIAN WALKWAY	LF	450		450
704	1060	DELINEATOR DRUMS	EA	270		270
704	1067	TUBULAR MARKERS	EA	130		130
704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	2		2
704	2108	TEMPORARY CURB RAMP	EA	12		12
706	0550	BITUMINOUS LABORATORY	EA	1		1
706	0600	CONTRACTOR'S LABORATORY	EA	1		1
708	1540	INLET PROTECTION-SPECIAL	EA	26		26
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	26		26
722	3455	CASTING INLET-TYPE 1	EA		15	15
722	3460	CASTING INLET-TYPE 2	EA		6	6
722	6140	ADJUST GATE VALVE BOX	EA	19		19
722	6200	ADJUST MANHOLE	EA	21		21
724	0270	REMOVE GATE VALVE & BOX	EA	1		1
724	0300	GATE VALVE & BOX 6IN	EA	1		1
724	0411	6IN HYDRANT	EA	1		1
724	0430	REMOVE HYDRANT	EA	1		1
748	0100	CURB & GUTTER	LF	1031		1031
748	0520	CURB-TYPE I	LF	190		190
750	0030	PIGMENTED IMPRINTED CONCRETE	SY	12		12
750	0115	SIDEWALK CONCRETE 4IN	SY	832		832
750	2115	DETECTABLE WARNING PANELS	SF	322		322
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	234.8		234.8
754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	290		290
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	138		138
754	0592	RESET SIGN PANEL	EA	9		9
754	0593	RESET SIGN SUPPORT	EA	1		1
762	0110	EPOXY PVMT MK 4IN LINE-GROOVED	LF	5285		5285
762	0112	EPOXY PVMT MK MESSAGE	SF	128		128

Pertinent Intersections & Quadrants

1st St SW : NW, NE, SW, SE
1st St SE : NW, SW
2nd St SE : NW, SW, SE
4th St SE : NW, NE, SW, SE



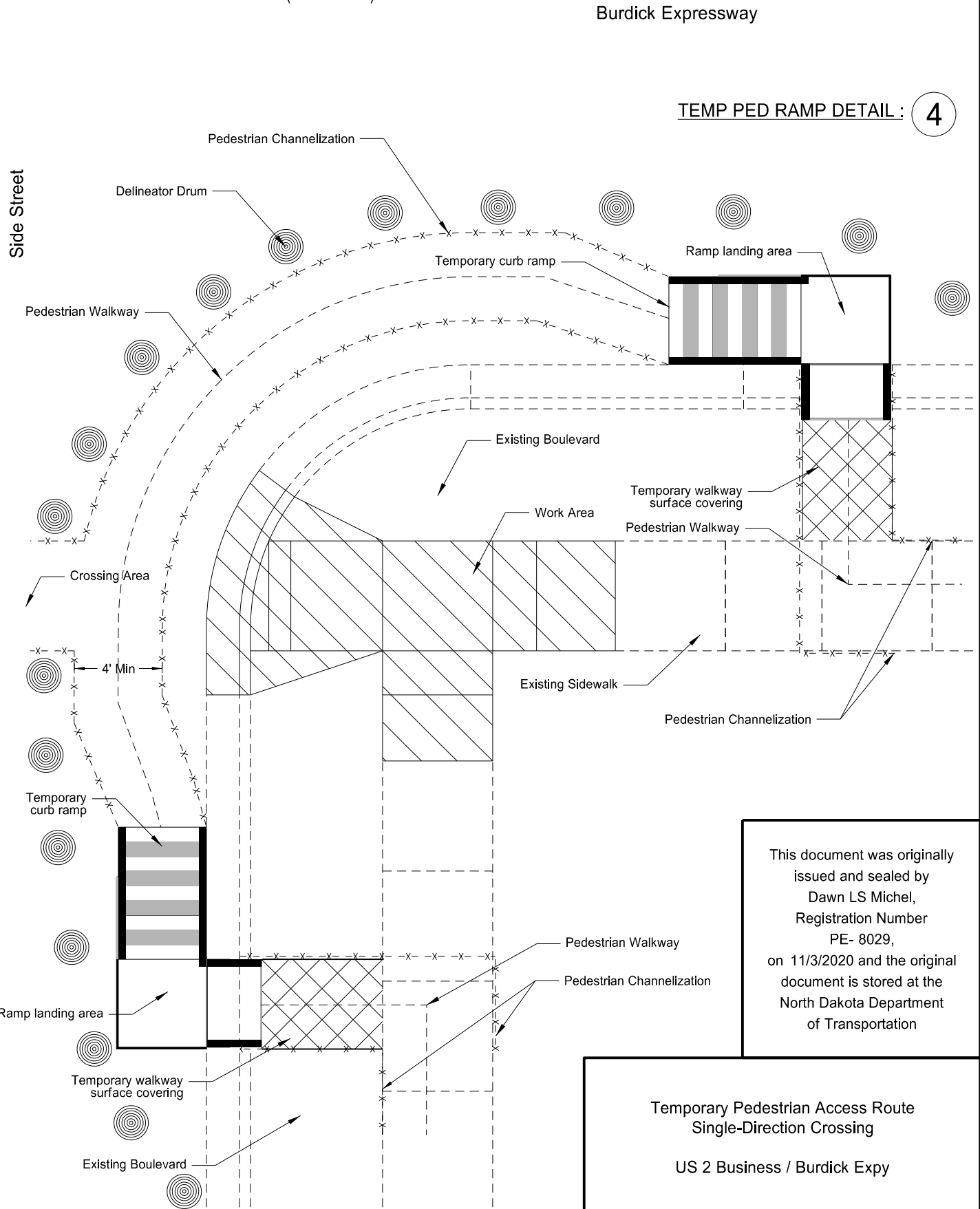
TEMP PED RAMP DETAIL : 3

Burdick Expressway

Traffic Control Devices (Quantities per Quadrant)

Temporary Curb Ramps : 2 EA
Delineator Drums : 20 EA
Pedestrian Walkway* : 75 LF
*Includes Pedestrian Channelization (Both Sides)

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	ND	NHU-4-002(131)906	100	4



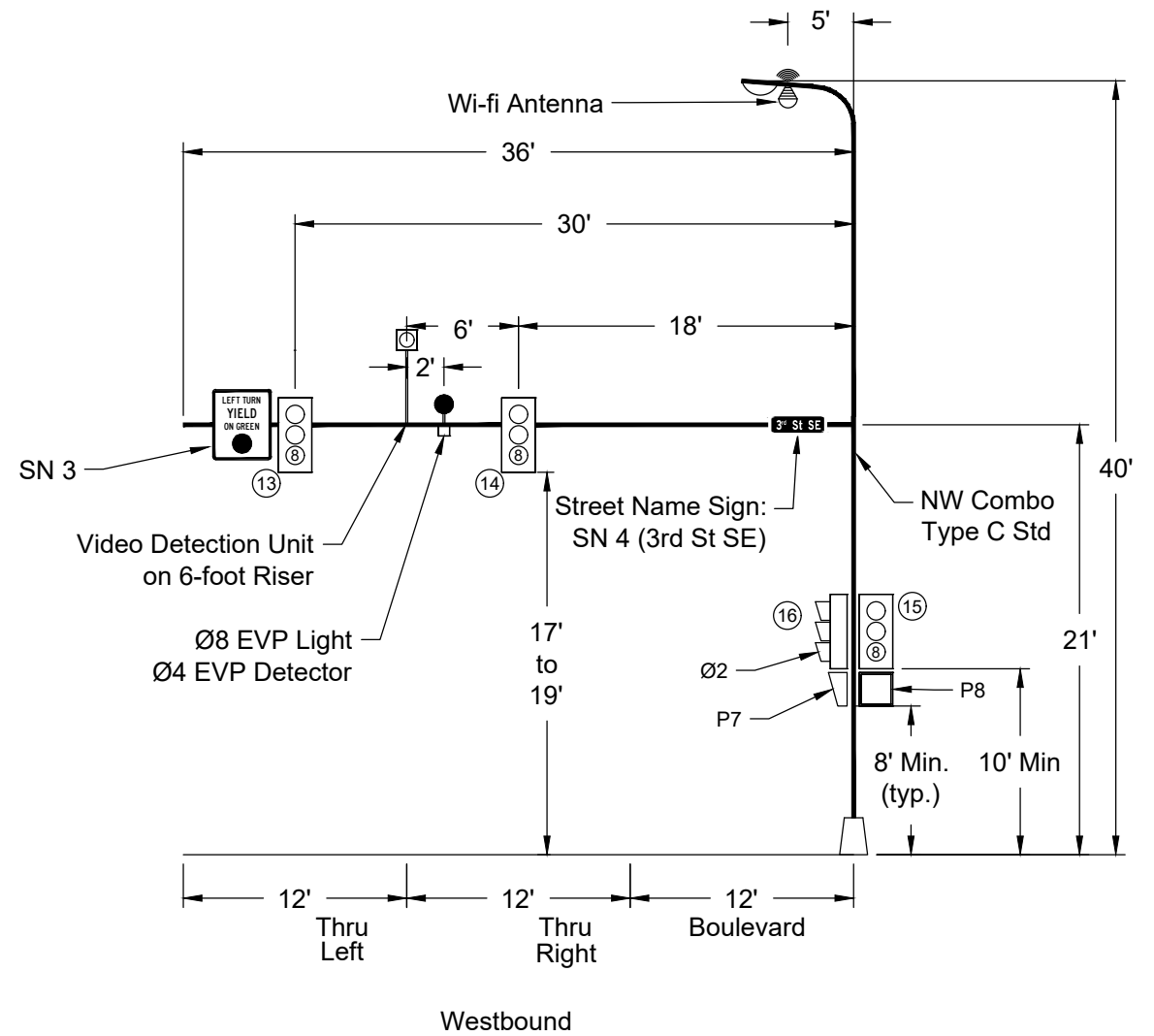
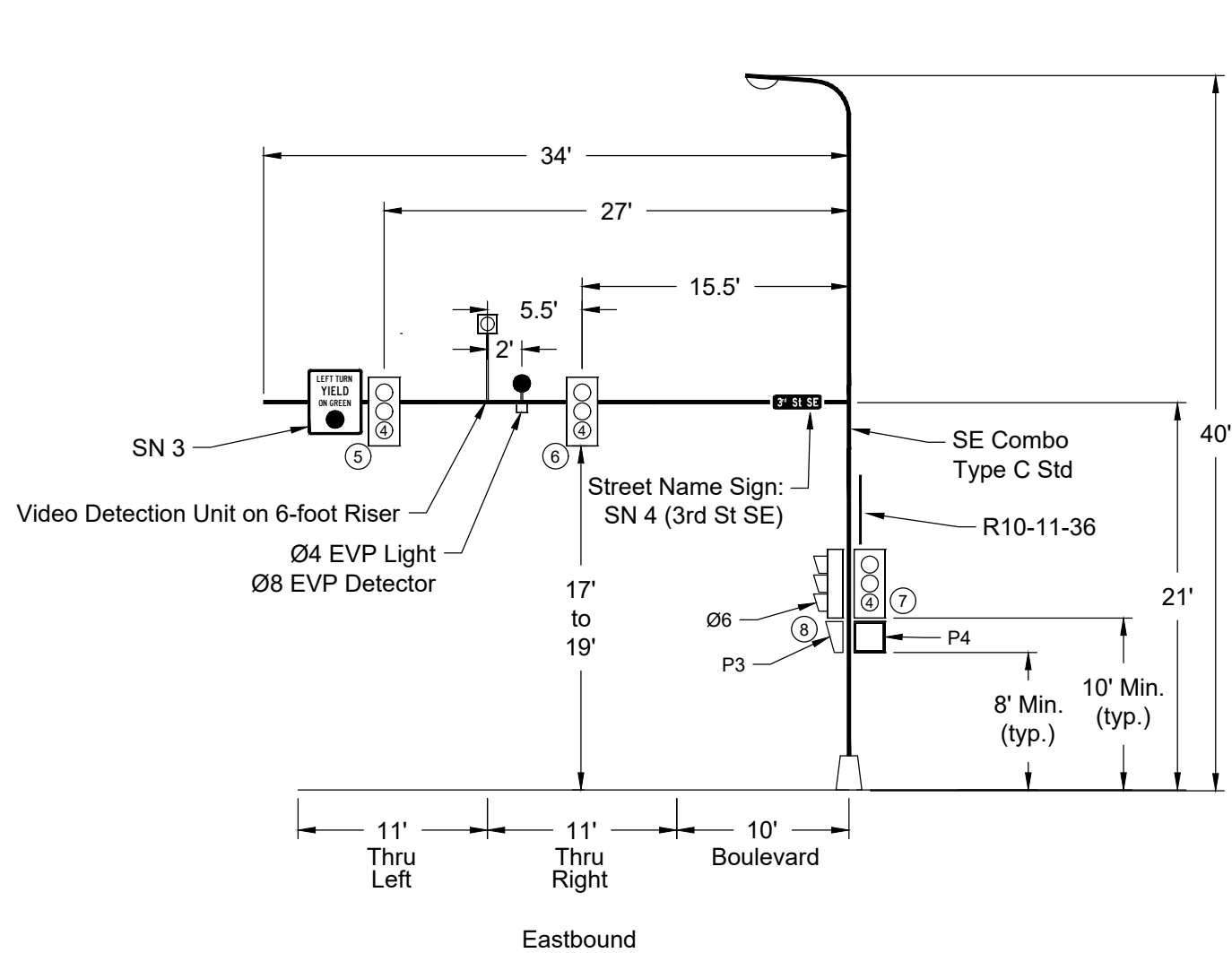
TEMP PED RAMP DETAIL : 4

Temporary Pedestrian Access Route
Single-Direction Crossing
US 2 Business / Burdick Expy

This document was originally issued and sealed by Dawn LS Michel, Registration Number PE- 8029, on 11/3/2020 and the original document is stored at the North Dakota Department of Transportation

P:\PROJECTS\4394 - Burdick Expressway Major Rehabilitation Valley St To 1st St SW\Design\Plans\4394 Signals.dwg 11/3/2020

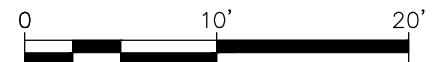
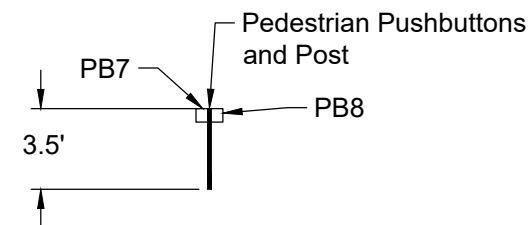
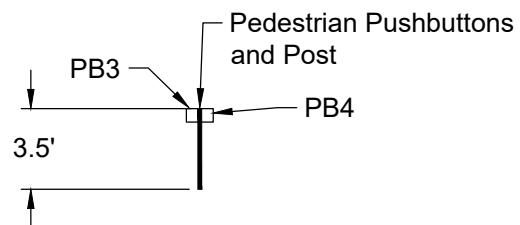
Revised 11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(131)906	150	15



LEGEND

- Wi-fi Antenna
- Video Detection Camera
- Traffic Signal Head w/associated phase
- Traffic Signal Head w/associated phase
- Signal Head Number
- EVP Light
- EVP Detector

Note: Install Wi-fi equipment at 40' mounting height on the light standard.



City of Minot
Engineering Dept

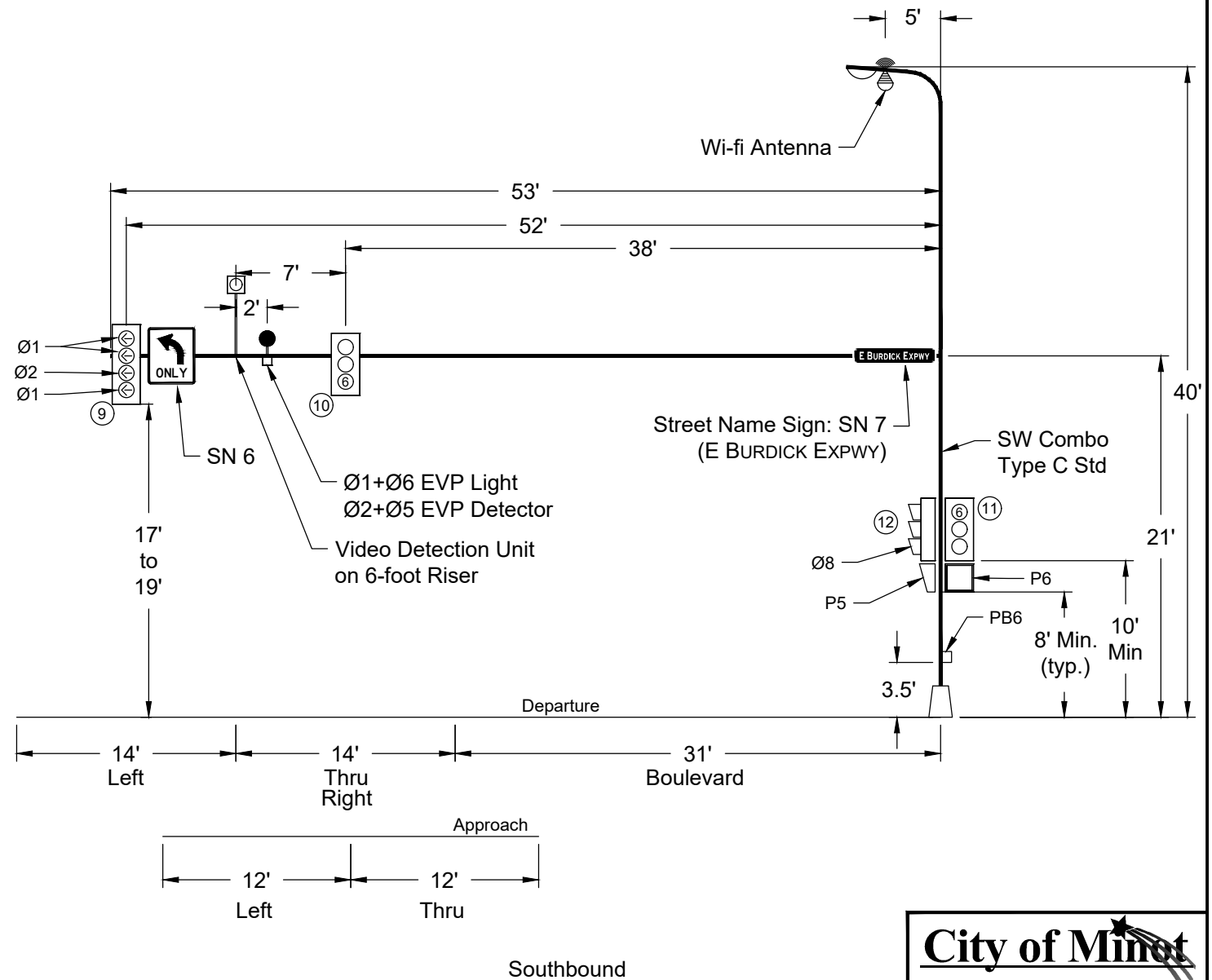
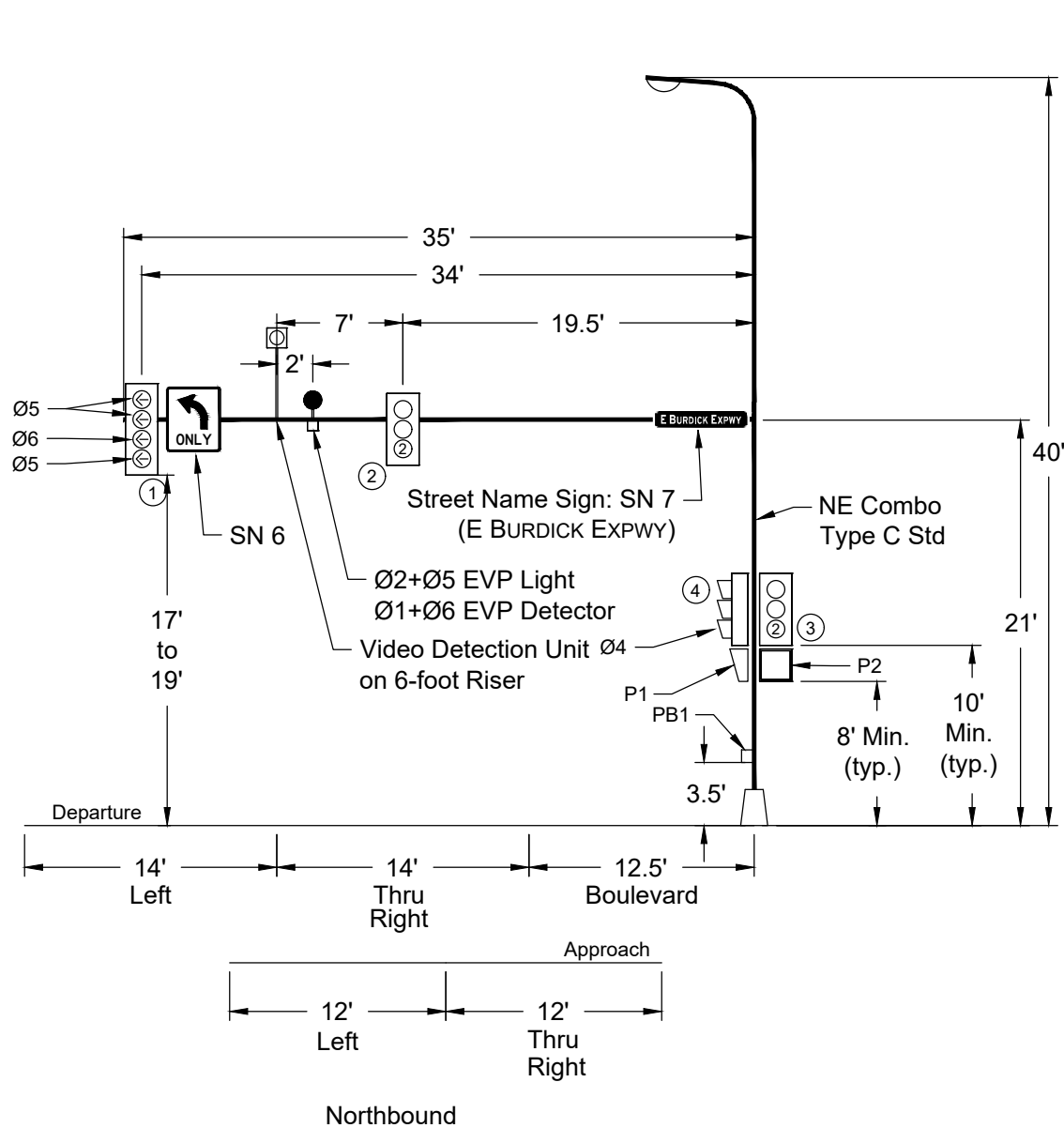
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BURDICK EXPY & VALLEY STREET
SITE 2
BURDICK EXPY & 3RD ST SE
SIGNAL STANDARDS & HEAD LOCATIONS

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11/3/2020

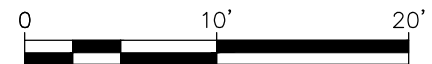
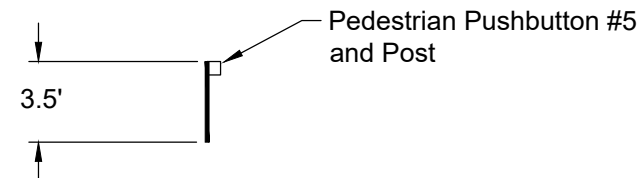
Revised 11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(131)906	150	23



LEGEND

- Wi-fi Antenna
- Video Detection Camera
- Traffic Signal Head w/associated phase
- Traffic Signal Head w/associated phase
- Signal Head Number
- EVP Light
- EVP Detector

Note: Install Wi-fi equipment at 40' mounting height on the light standard.



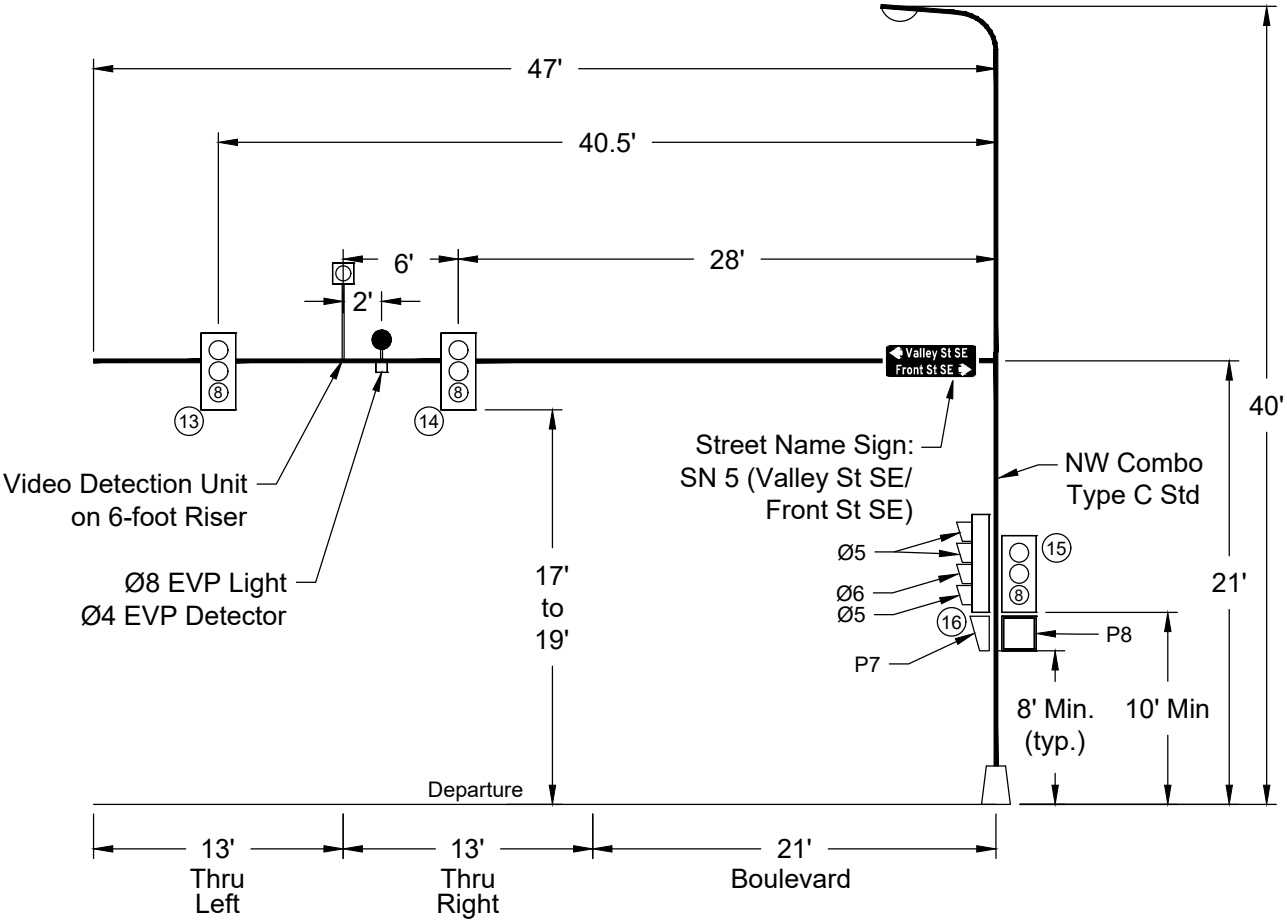
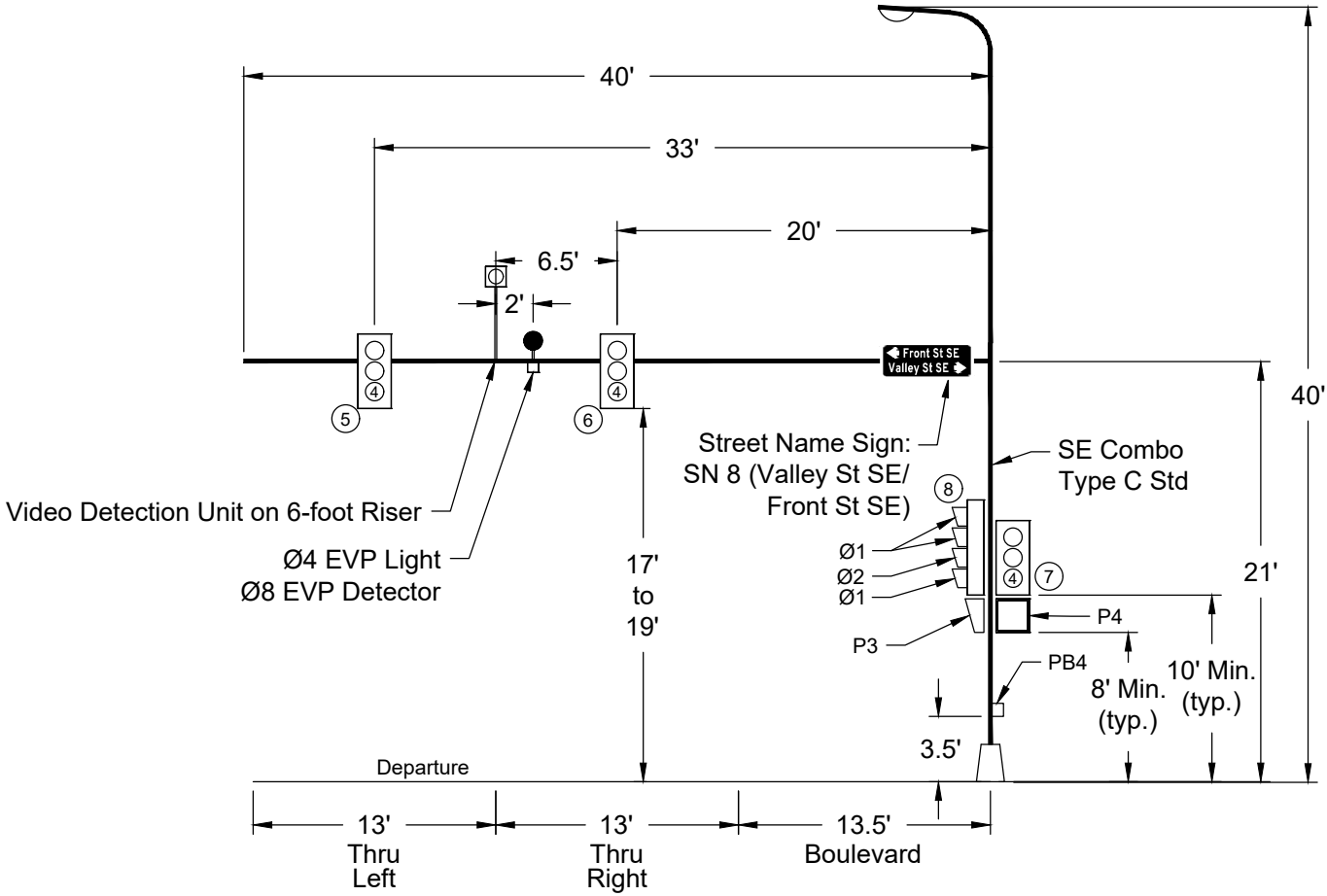
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Engineering Dept

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BURDICK EXPY & VALLEY STREET
SITE 3
BURDICK EXPY & VALLEY ST
SIGNAL STANDARDS & HEAD LOCATIONS

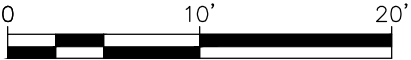
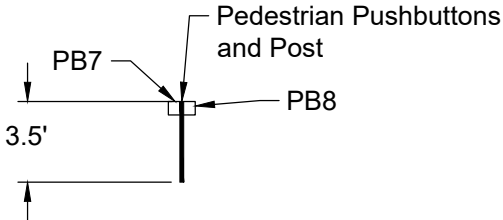
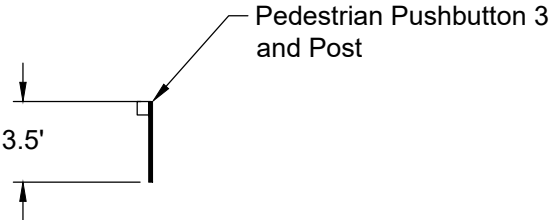
11/3/2020 P:\PROJECTS\4394 - Burdick Expressway Major Rehabilitation Valley St To 1st St SW\Design\Plans\4394 Signals.dwg

Revised 11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-002(131)906	150	24



LEGEND

- Video Detection Camera
- Traffic Signal Head w/associated phase
- Traffic Signal Head w/associated phase
- Signal Head Number
- EVP Light
- EVP Detector

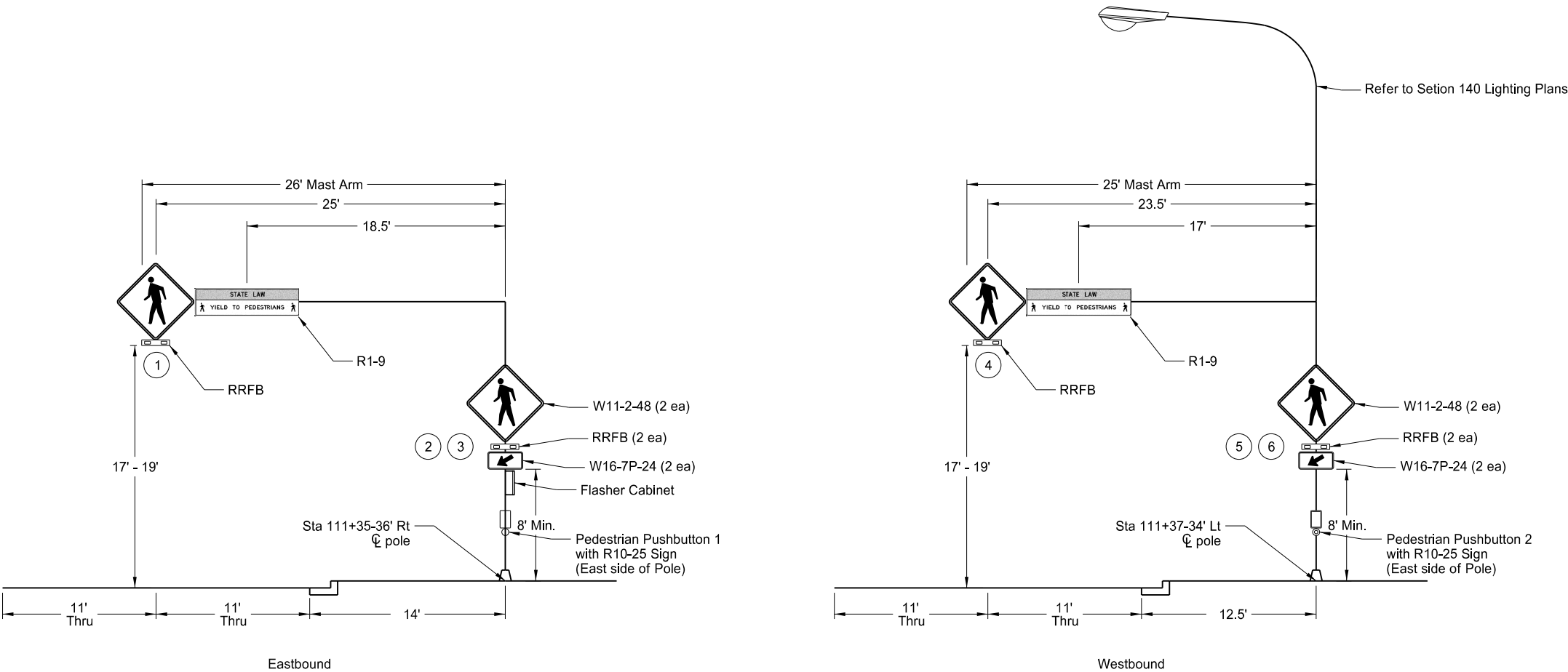


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BURDICK EXPY & VALLEY STREET
SITE 3
BURDICK EXPY & VALLEY ST
SIGNAL STANDARDS & HEAD LOCATIONS

Revised	11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NHU-4-002(131)906	150	32



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Brent Muscha,
Registration Number
PE- 7123 ,
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Signal Standards and Head Locations
US 2 Business / Burdick Expy
1st St SE

PLAN ADDENDUM SUMMARY AND APPROVAL

PROJECT INFORMATION		
Project:	NH-4-002(125)905	PCN: 22216
Location:	US 2B (Burdick Expy) – 16 th St SW to S Broadway (US 83) & 16 th St SE to 27 th St SE	
Date:	11/03/2020	Lead Designer: Apex Engineering Group
Bid Opening Date:	11/13/2020	JOB#: 26 Addendum#: 1

PLAN SHEET CHANGES		
Section	Sheet	Description
6	2	Revised Plan Note 704-P03
8	1	Revised quantity for Steel Galv Posts-Telescoping Perforated Tube

CHANGES MADE TO BID ITEMS FOR JOB					
Spec	Code	Description	Unit	Previous Quantity	Revised Quantity
754	0206	Steel Galv Posts-Telescoping Perforated Tube	LF	181.7	254

APPROVAL

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

 X Yes No



Paul Benning, P.E. – Local Government Engineer

11/4/2020

Date

NOTES

Revised 11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NH-4-002(125)905	6	2

704-P01 TRAFFIC CONTROL PHASING: The traffic control details, as indicated on the plans, have been developed on the basis that this project will be constructed in phases as described below. The work zone traffic control summary lists include the required number of devices for each phase of work. Devices will be moved as required for each phase. The following traffic control phasing for the construction of pedestrian ramps, new curb and gutter, and other items has been developed for this project:

Phase 1: Construct proposed ADA Ramps at 16th St SW, MHS Entrance, Maple St SW, and 8th St SW. Construct proposed valley gutter at Maple St SW and 8th St SW.

- Work area is restricted to a maximum of two quadrants of an intersection at one time. Multiple intersections can be worked on concurrently.
- Start work on the MHS entrance after May 28, 2021.
- (1) Lane closure adjacent to the curb and gutter.
- Maintain two lanes of traffic at all times.
- Provide temporary curb ramps, pedestrian channelization, and temporary pedestrian surfacing.
- Construct proposed pedestrian ADA ramps at all intersections, including new curb and gutter, ramps, landings (upper and lower landings), signal foundations (where applicable), and full depth pavement replacement (where applicable).
- Provide temporary pedestrian surfacing to transition proposed sidewalk into existing sidewalk. If the cross slope of the existing sidewalk exceeds 2%, transition the temporary pedestrian surfacing at a maximum rate of 0.5% per 1 linear foot of surfacing.
- Construct valley gutter at Maple St SW and 8th St SW one-half at a time, so that vehicles can still pass through the other half of the intersection.

Phase 2a: Construct proposed ADA Ramps on north side of Burdick Expressway at 6th St SW, 5th St SW, Park St SW, 4th St SW, and 3rd St SW, using same requirements as Phase 1. Construct proposed pedestrian pushbutton poles on north side at 6th St SW.

Phase 2b: Construct proposed ADA Ramps on south side of Burdick Expressway at 6th St SW, 5th St SW, Park St SW, 4th St SW, and 3rd St SW, using same requirements as Phase 1. Construct proposed pedestrian pushbutton poles on south side at 6th St SW.

Phase 3: Construct proposed ADA Ramps, pigmented imprinted concrete, and flexible delineators at the South Broadway (US 83) intersection, in the following subphases and as shown in Section 100:

- 3a: NE Quad, SW Quad, SE Quad
- 3b: NW Quad, NE Island, E Median
- 3c: SE Island, SW Island
- 3d: W Median

Lane closures are as shown in Section 100. Each subphase shall be completed before the next subphase begins. Provide temporary curb ramps, pedestrian channelization, and temporary pedestrian surfacing. Provide temporary pedestrian surfacing to transition proposed sidewalk into existing sidewalk. If the cross slope of the existing sidewalk exceeds 2%, transition the temporary pedestrian surfacing at a maximum rate of 0.5% per 1 linear foot of surfacing.

Phase 4a: Construct proposed ADA Ramps on north side of Burdick Expressway at 16th St SE, 19th St SE, 20th St SE, 8th Ave SE, and Fairgrounds Entrance, using same requirements as Phase 1. Close north crossing at Fairgrounds Entrance and 20th St SE during construction.

Phase 4b: Construct proposed ADA Ramps on south side of Burdick Expressway at 18th St SE, 19th St SE, 20th St SE, 8th Ave SE, Souris Dr, Fairgrounds Entrance, and 27th St SE using same requirements as Phase 1.

704-P02 TRAFFIC CONTROL DEVICES: The traffic control devices list has been developed using the layouts shown in the plans and the following layouts shown on the Standard Drawings:

D-704-23 Type P
D-704-34 Lane closure

704-P03 TRAFFIC CONTROL DEVICES: Traffic control devices have been provided for a single full lane closure of multiple sites simultaneously, as listed in the phase descriptions in Note 704-P01. Lane closures must remain at all times if there are drop-offs within the work zone.

The following devices remain in place for the duration a construction site is active:

1. W20-1-48 – Road Work Ahead
2. G20-2-48 – End Road Work
3. All pedestrian signing devices – See Section 100
4. All lane narrowing devices
5. Devices adjacent to active work zones
6. Pedestrian temporary railings and curb ramps – See Section 100

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Estimated Quantities					Revised	11/3/2020	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
							ND	NH-4-002(125)905	8	1
					NHU-4-002(131)906					
SPEC	CODE	ITEM DESCRIPTION	UNIT	NH Funding	City Funding		TOTAL			
103	0100	CONTRACT BOND	L SUM	0.3			0.3			
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	1237			1237			
202	0130	REMOVAL OF CURB & GUTTER	LF	1972			1972			
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	583			583			
261	0200	WEIGHTED FIBER ROLLS	LF	510			510			
261	0201	REMOVE WEIGHTED FIBER ROLLS	LF	510			510			
430	2000	PATCHING	TON	158			158			
624	0119	REMOVE PEDESTRIAN RAILING	LF	6			6			
702	0100	MOBILIZATION	L SUM	0.3			0.3			
704	1000	TRAFFIC CONTROL SIGNS	UNIT	969			969			
704	1052	TYPE III BARRICADE	EA	6			6			
704	1058	PEDESTRIAN WALKWAY	LF	975			975			
704	1060	DELINEATOR DRUMS	EA	147			147			
704	1067	TUBULAR MARKERS	EA	73			73			
704	1086	SEQUENCING ARROW PANEL-TYPE B	EA	1			1			
704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	1			1			
704	1500	OBLITERATION OF PAVEMENT MARKING	SF	2240			2240			
704	2108	TEMPORARY CURB RAMP	EA	26			26			
708	1540	INLET PROTECTION-SPECIAL	EA	42			42			
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	42			42			
722	6160	ADJUST INLET	EA	9			9			
722	6200	ADJUST MANHOLE	EA	1			1			
722	6240	ADJUST UTILITY APPURTENANCE	EA	9			9			
748	0100	CURB & GUTTER	LF	1603			1603			
748	0120	CURB & GUTTER MOUNTABLE-TYPE I	LF	333			333			
748	0520	CURB-TYPE I	LF	303			303			
748	1030	VALLEY GUTTER 72IN	SY		63		63			
750	0030	PIGMENTED IMPRINTED CONCRETE	SY		126		126			
750	0115	SIDEWALK CONCRETE 4IN	SY	1188			1188			
750	2115	DETECTABLE WARNING PANELS	SF	798			798			
754	0170	FLEXIBLE DELINEATORS	EA		11		11			
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	254			254			
754	0592	RESET SIGN PANEL	EA	18			18			
762	1307	PREFORMED PATTERNED PVMT MK 6IN LINE-GROOVED	LF	1961			1961			
762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	LF	1010			1010			
772	9814	TRAFFIC SIGNAL SYSTEM - SITE 4	EA		1		1			
970	0008	LANDSCAPE PREPARATION	SY	247			247			