



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

September 28, 2015

ADDENDUM 2 – JOB 25

TO: All prospective bidders on project SU-8-992(036)037, Job No. 25, scheduled for the October 9, 2015 bid opening.

The following plan and request for proposal revisions shall be made:

Plan Revisions:

See attached summary from Matthew T. Kinsella, PE; Apex Engineering Group Inc., dated September 25, 2015 for an explanation.

Request for Proposal Revisions:

Remove and replace pages 9 and 16 of 20 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed pages revised 9/28/2015.

Page 9 of 20:

Item 704 1060 DELINEATOR DRUMS; quantity decreased from 200 to 69 EA.

Page 16 of 20:

Item 770-0001 LIGHTING SYSTEM; 1 EA was deleted.

Item 770-9400 LIGHTING SYSTEM (ROADWAY); 1 EA was added.

This addendum is to be incorporated into the bidder's proposal for this project.

Expedite bid files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> or the Department's web page (<http://www.dot.nd.gov>) and load it into the Expedite program.

CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER

80:plm

Enclosure

September 25, 2015

ADDENDUM 2 – JOB 25

TO: All prospective bidders and suppliers on Project SU-8-992(036)037, Job No. 25 scheduled for the October 9, 2015 bid opening.

The following plan revisions shall be made:

Plan Revisions:

REMOVE the following plan sheets, and REPLACE with the enclosed sheets revised 09/23/15.

- Section 6 Sheets 3-6, 12
- Section 8 Sheets 1-2
- Section 100 Sheets 1, 4, 5, 7, 11
- Section 110 Sheets 1-2

SECTION 6

Sheet 3:

- Plan Note 704-P01 TRAFFIC CONTROL PHASES AND INTERIM COMPLETION DATES – revised 1st paragraph to add language about winter suspension deadlines and penalties.

Sheet 4:

- Plan Note 704-P03 WINTER SUSPENSION – revised 1st paragraph to add language about liquidated damages; added bullet requiring post-mounted traffic control devices; clarified Traffic Control Supervisor and maintenance responsibilities during winter suspension.
- Added new Plan Note 704-P04.

Sheet 5:

- Reprinted due to plan notes shifting from revisions listed above.

Sheet 6:

- Added new Plan Note 770-100.
- Added new Plan Note 770-P08.

Sheet 12:

- Plan Note 754-P03 SALVAGE SIGN TYPE D – revised note name, and added language to clarify what is included for this bid item.

SECTION 8

Sheet 1:

- Item 704 1060 DELINEATOR DRUMS – quantity decreased from 200 EA to 69 EA.

SECTION 8 (continued)

Sheet 2:

- Delete Bid Item 770 0001 LIGHTING SYSTEM – delete quantity 1 EA.
- Add new Bid Item 770 9400 LIGHTING SYSTEM (ROADWAY) – quantity 1 L SUM.

SECTION 100

Sheet 1:

- Revise Delineator Drum quantities for each phase and the total quantity.

Sheet 4:

- Add note referring to Section 100 Sheet 5 for Phase 1B Delineator Drum quantity.

Sheet 5:

- Add table summarizing Delineator Drum quantities for Phase 1B.

Sheet 7:

- Add table summarizing Delineator Drum quantities for Phase 2A.

Sheet 11:

- Add table summarizing Delineator Drum quantities for Phase 3.

SECTION 110

Sheet 1:

- Revise notes to clarify sign removal payment.

Sheet 2:

- Revise notes to clarify sign removal payment.

This addendum is to be incorporated into the bidder's proposal for this project.

Sincerely,
Apex Engineering Group, Inc.



Matthew T. Kinsella, PE
Project Manager

BID ITEMS

Project: SU-8-992(036)037 (PCN-20057)

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	430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	427.				
034	430	2000	PATCHING	TON	225.				
035	550	0312	10.5IN NON REINF CONCRETE PVMT CL AE-DOWELED	SY	72,990.				
036	702	0100	MOBILIZATION	L SUM	1.				
037	704	0100	FLAGGING	MHR	500.				
038	704	1000	TRAFFIC CONTROL SIGNS	UNIT	4,266.				
039	704	1051	TYPE II BARRICADE	EA	2.				
040	704	1052	TYPE III BARRICADE	EA	55.				
041	704	1060	DELINEATOR DRUMS	EA	69.				
042	704	1072	FLEXIBLE DELINEATORS	EA	42.				
043	706	0500	AGGREGATE LABORATORY	EA	1.				
044	708	1531	INLET PROTECTION-FIBER ROLL 12IN	EA	73.				
045	708	1533	REMOVAL INLET PROTECTION-FIBER ROLL 12IN	EA	48.				
046	708	1540	INLET PROTECTION-SPECIAL	EA	165.				
047	708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	39.				
048	709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	88,231.				

BID ITEMS

Project: SU-8-992(036)037 (PCN-20057)

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
145	754	0805	OBJECT MARKERS - CULVERTS	EA	25.				
146	754	9003	SALVAGE SIGN-TYPE D	EA	4.				
147	762	0112	EPOXY PVMT MK MESSAGE	SF	445.				
148	762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	3,240.				
149	762	1280	PREFORMED THERMO PLASTIC PVMT MK MESSAGE	SF	1,524.				
150	762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	31,104.				
151	762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED	LF	3,817.				
152	762	1317	PREFORMED PATTERNED PVMT MK 16IN LINE-GROOVED	LF	142.				
153	762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	LF	326.				
154	766	0100	MAILBOX-ALL TYPES	EA	1.				
155	770	9400	LIGHTING SYSTEM (ROADWAY)	L SUM	1.				
156	772	0003	SIGNAL STANDARD FOUNDATION	EA	1.				
157	772	0100	PULL BOX	EA	2.				
158	772	0240	2IN DIAMETER RIGID CONDUIT	LF	258.				
159	772	0325	DETECTOR LOOP-POLYETHYLENE CONDUIT PRE-WIRED	LF	836.				
160	772	0330	LOOP LEAD-IN CONDUCTOR	LF	1,762.				

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Use the same supplier for all colored concrete placed under the contract.

Add pigment at the ratio recommended by the manufacturer directly into the mixer along with the aggregate, cement, and water. Add pigment while the mixer is operating at mixing speed. Continue mixing for 5 to 10 minutes or between 50 and 100 revolutions.

Cure concrete using curing compound that meets the requirements of ASTM C 309, Type 1.

All costs associated with pigmentation the concrete shall be included in the price bid for "10.5In Non Reinf Concrete Pvmt CI AE-Doweled."

704-100 TRAFFIC CONTROL SUPERVISOR: Provide a Traffic Control Supervisor.

704-P01 TRAFFIC CONTROL PHASES AND INTERIM COMPLETION DATES:

Phases and Interim Completion Dates

Interim completion dates are listed below within each traffic control phase description. The Contractor shall be charged a penalty of \$1,500 per calendar day for failure to meet interim completion dates or winter suspension deadlines (which are outlined in Plan Note 704-P03). Holidays and Sundays will be counted as calendar days for applications of penalties. Multiple interim penalties may occur concurrently.

2016 Construction

Phase 1A: Close 12th Ave N to thru traffic from east side of County Road 19 to west side of County Road 17. Detour thru traffic to Main Ave W as shown in the plans. Construct all underground City utilities and services. Install storm sewer system. Complete grading and street paving, sidewalks and shared use paths, driveways, signing, pavement marking, and street lighting. Phase 1A shall be complete and opened to traffic by August 15, 2016. Access to Riverwood Drive/4th Street from 12th Ave N shall be closed during Phase 1A construction. Access to the adjacent residential properties is available from the surrounding roadway network. The Contractor shall maintain 12th Ave N access to the intersection at Sta 72+00 and the driveway at Sta 79+70 RT during Phase 1A construction. Driveway located at Sta 87+00 RT shall be closed during Phase 1A construction. Phase 1A and 1B shall be constructed concurrently.

Phase 1B: Close 12th Ave N to thru traffic from east of 9th Street to west side of 45th Street. Detour thru traffic to 7th Ave N as shown on the plans, see Phase 1A and Phase 1B Detour sheets. Construct all underground City utilities and services. Install storm sewer system. Complete grading and street paving, shared use path, driveways, traffic signal modifications, signing, pavement marking, street lighting, and IT conduit installation from Sta 157+50 to 45th Street. The following interim completion dates shall apply:

- Installation of all underground City utilities and storm sewer from Sta 157+50 to 45th Street shall be completed by August 1, 2016.
- The section of 12th Ave N roadway from 47th Street to 45th Street shall be complete and opened to traffic by August 1, 2016.
- The section of 12th Ave N roadway from Sta 157+50 to 47th Street shall be complete and opened to traffic by September 1, 2016.

Access to 47th Street, Fayland Drive and 46th Street from 12th Ave N shall be closed during Phase 1B construction. Access to these streets shall be maintained via 13th Ave N. Seven (7) field drives, located at Sta 151+60 RT; Sta 152+10 LT; Sta 153+10 RT; Sta 156+75 RT; Sta 165+30 LT; Sta 175+30 LT; and Sta 176+30 RT, shall be closed during Phase 1B construction. Access to the adjacent fields is available from the surrounding roadway network. Phase 1A and 1B shall be constructed concurrently. Refer to Plan Note 704-P03 Winter Suspension for additional instructions on the roadway transition at Sta 157+50 that will be in place over the 2016-17 winter suspension.

Phase 2A: Work on Phase 2A shall not be allowed to begin until Phase 1A is complete. Close 12th Ave N to thru traffic from west side of County Road 17 to west side of Center Street. 12th Ave N detour established in Phase 1A shall remain in place. See Section 100 Sheets 6 & 7 for additional detour signing. Construct all underground City utilities and services. Install storm sewer system. Complete grading and street paving, sidewalks and shared use paths, driveways, signing, pavement marking, and street lighting. Access to County Road 17 and Armour Street shall be closed during Phase 2A construction. Driveways located at Sta 98+30 LT and Sta 101+15 LT shall be closed during Phase 2A construction. The Contractor shall maintain as least one of the two business driveways located at St. 101+10 RT and Sta 103+40 RT at all times during Phase 2A construction. Driveway at Sta 107+80 LT (Strata) shall be maintained at all times during Phase 2A construction.

Close County Road 17 from 12th Ave N extended north 1,100 feet. Detour southbound County Road 17 traffic to Interstate 29 as shown in the plans. Construct all underground City utilities and services. Install storm sewer system. Complete grading and street paving, sidewalks and shared use paths, driveways, signing, pavement marking, and street lighting. Access to driveway at Sta 9+90 RT (Industrial Builders) shall be maintained at all times during Phase 2A construction. Phase 2A shall be complete and opened to traffic by October 1, 2016.

Phase 2B: Work on Phase 2B shall not be allowed to begin until Phase 2A is complete. Close the intersection of 12th Ave N and Center Street to thru traffic. 12th Ave N detour to remain in place. Construct all underground City utilities and services. Install storm sewer system. Complete grading and street paving, sidewalks, driveways and street lighting. Phase 2B shall be complete and open to traffic by November 1, 2016. Access to driveway at Sta 107+80 LT shall be closed during Phase 2B construction. Refer to Plan Note 704-P03 Winter Suspension for additional instructions on the roadway transition at Sta 108+61 that will be in place over the 2016-17 winter suspension.

2017 Construction

Phase 3: Close 12th Ave N thru traffic from east of Center Street to west side of 9th Street NE. Detour thru traffic to 7th Ave N as shown in the plans. Remove temporary roadway transition at Sta 108+61 that was put in place over the winter suspension. Construct all underground City utilities and services. Install storm sewer system. Complete grading and street paving, shared use path, driveways, signing, pavement marking, and street lighting. Phase 3 shall be complete and open to traffic by August 1, 2017. Access to 7th Street NE at Sta 141+75 RT shall be closed during Phase 3 construction. The following driveways may be closed during Phase 3 construction: Sta 109+70 RT;

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Sta 113+65 RT; Sta 118+10 RT; Sta 124+95 LT; Sta 124+95 RT; Sta 134+20 RT and Sta 141+75 LT. The Contractor shall maintain access to the following driveways during Phase 3 construction: Sta 111+00 LT; Sta 113+30 LT; Sta 122+50 LT; Sta 123+75 LT and Sta 123+75 RT. Coordinate with BNSF RR on installation of the new concrete railroad crossing panels and new railroad signals at the RR crossing at Sta 128+53.

Phase 4: Work on Phase 4 shall not be allowed to begin until Phase 3 is complete. Close the intersection of 12th Ave N and 9th Street East to thru traffic. 12th Ave N detour established in Phase 3 shall remain in place. See plan sheet that details the detour signing for closure of 9th Street East. Remove temporary roadway transition at Sta 157+50 that was put in place over the winter suspension. Construct all underground City utilities and services. Install storm sewer system. Complete grading and street paving, shared use path, driveways, signing, pavement marking, street lighting, and IT conduit installation from ending point of Phase 3 to Sta 157+50. Phase 4 shall be complete and open to traffic by October 15, 2017.

Alternate Phasing Plan

The contractor may elect to submit an alternate construction phasing plan, which will include a detailed signing, striping, and lane designation layout for the entire project for review prior to the preconstruction meeting. The contractor shall be responsible for all costs associated with the traffic control changes if approved by the Engineer.

704-P02 TRAFFIC SIGNAL TEMPORARY PHASING: The Contractor shall coordinate with City of Fargo Traffic Engineering (701-241-1545) on any temporary modifications to traffic signal phasing or timing that may be necessary to facilitate work zone traffic control at the 45th Street/12th Avenue North intersection during Phase 1B.

704-P03 WINTER SUSPENSION: This project is scheduled to be constructed over two construction seasons. Any penalties that are being assessed for failure to meet interim completion dates shall continue to be assessed over the winter suspension period, until the work is complete. If winter suspensions requirements are not met, liquidated damages of \$1,500 per calendar day will be charged starting from November 16, 2016 until the conditions are met. The following conditions shall be met for winter suspension:

- The Contractor's work operations shall be suspended for winter no later than November 15, 2016. Prior to the 2016-2017 winter suspension, 12th Ave N shall be reopened to full two-way traffic through the entire project area upon the completion of concrete paving, new sign installation, and new pavement marking in Phases 1A, 1B, 2A, and 2B. Refer to Plan Note 704-P01 for additional phasing details.
- Temporary asphalt widening and paving transitions, installation of temporary signing and flexible delineators, and temporary pavement marking will be required on the east side of Center Street (from Sta 108+61 to Sta 111+31) and on the east side of 9th Street NE (from Sta 154+80 to Sta 157+50) to facilitate traffic operations during the winter suspension period. Refer to the Temporary Roadway Transition Details in Section 20 and Section 100 for construction details and quantities.
- All traffic control devices or signs required over the winter suspension shall be post-mounted or anchored by a method approved by the Engineer.
- The Contractor shall be responsible for ensuring that drainage is maintained and accommodated over the winter suspension period. This may include temporary plugging of pipes or manholes that were installed during the 2016 work phases.

- The Engineer shall have final approval of the temporary drainage systems at the two transition areas. All costs associated with this work shall be included in the price bid for "Temporary Bypass Drainage System."
- Any existing signs that were removed or covered and that were not replaced with new signs shall be reset prior to winter suspension.
 - The traffic signal at 45th Street shall be operational with cycle and phasing timing as required by the City of Fargo.
 - Areas where topsoil was stripped and/or grading activities have occurred shall have the topsoil replaced and permanently and/or temporarily stabilized according to Section 75 of the plans.
 - All equipment and construction materials shall be removed from the right of way and easements unless written permission is granted from the Engineer.
 - The Traffic Control Supervisor requirement is suspended during the Winter Suspension period. However, the Contractor shall be responsible for maintaining traffic control devices that remain in place during the winter suspension period. This is defined as responding to requests from the Owner(s) or Engineer to fix, repair, or reset damaged or disturbed devices.
 - The Owner(s) reserve the right to have the Contractor fix any damage to previously completed paving and grading that might occur over the winter suspension period, at the Owner(s)' expense.

The Contractor may propose that the project is ready for Winter Suspension after the conditions for winter suspension are met. The Contractor shall notify the Engineer in writing a minimum of 5 days prior to anticipated winter suspension. The Engineer will determine whether the conditions for winter suspension have been sufficiently met.

704-P04 DELINEATOR DRUMS: An additional 25 delineator drums have been included in the quantities to be used at the Engineer's discretion.

714-P01 UNDERGROUND UTILITY INSTALLATION – EAST OF TIEBACK LEVEE: The City of Fargo Standard Specifications for Construction (revised 2015) along with these Notes shall govern the underground utility construction on this project from Sta 176+00 to Sta 203+00 (east of Tieback Levee to 45th Street).

714-P02 EDGEDRAIN NON-PERMEABLE BASE: The openings required to outlet edge drains shall be achieved by coring the openings into manholes, inlets, and reinforced concrete pipe after they have been placed in the field. All existing edge drains encountered shall be connected to proposed edge drains or structures. Jackhammering will not be allowed to create these openings. A hand-held coring machine, capable of producing a clean cut circular hole, must be used. Placement of the edge drain openings must be such that the proposed grade of the edge drain is maintained. The diameter of the hole shall be sized to allow for a tight fitting seal and shall be water tight on each side of the inlet or manhole. All costs required for the described coring shall be included in the price bid for "Edgedrain Non Permeable Base."

714-P03 CONCRETE PIPE TIES: Any concrete pipe that terminates with at least one end section shall be required to have concrete pipe ties placed on the last 3 sections of pipe including the end section. All concrete pipe placed from drainage structure (i.e. inlet, manhole, etc.) to drainage structure shall not have concrete pipe ties required.

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722-P01 MANHOLES AND INLETS: All new manholes on this project that are within the roadway pavement shall be floating castings. Manhole riser sections shall not be paid for separately but shall be included in the price bid for "Manhole ____".

The bottom of inlets or manholes shall be filled with concrete up to the elevation that will accommodate the lowest invert elevation. All joints for plastic pipe and edge drain connections shall be sealed gasketed joints. All costs to accomplish this work will be included in the unit price bid for the respective inlet or manhole.

Manhole castings and covers shall be:

- Floating: Neenah R-1955-1 or EJ 3025 or approved equal (open pickholes and "Storm Sewer" lettering).
- Manhole = Neenah R-1733 or EJ 1205 or approved equal (open pickholes and "Storm Sewer" lettering).

722-P02 INLET: Stool Grate Castings for the bid item "Inlet" shall be Neenah R-4342 or EJ 6489N or approved equal.

722-P03 INLET-TYPE 2: Castings for the bid item "Inlet-Type 2" shall be Neenah R-3067-V or EJ 7030M4 or approved equal.

722-P04 INLET-TYPE 2 DOUBLE: Castings for the bid item "Inlet-Type 2 Double" shall be Neenah R-3295-2-V or EJ 7031M4 or approved equal.

724-P01 CONNECTION TO EXISTING MAIN: This item includes all costs associated with the work to connect proposed pipe to existing pipe. The joints and/or connections shall meet the requirements of Section 1500 of the City of Fargo Standard Specifications or be per manufacturer's recommendations, as approved by the Engineer. The existing pipe material and size shown in Section 55 of the plan set is based on record drawings. Removing existing water main plugs prior to making a new connection to the existing main shall be included in the price bid for "Connection to Existing Main."

750-P01 PIGMENTED IMPRINTED CONCRETE: Develop a mix design using any size coarse aggregate specified in Section 802.01 C.2, "Coarse Aggregate" and with a 60-40 fine aggregate-coarse aggregate ratio.

Provide a pigment from the list below or provide an approved equal. To be considered an approved equal, pigments must meet the requirements of ASTM C 979.

1. Number 238 Marigold, produced by Solomon Colors, Inc.
<http://www.solomoncolors.com>;
2. Number 5084 Spanish Gold, produced by Davis Colors
<http://www.daviscolors.com>

Use the same supplier for all colored concrete in this contract.

Add pigment at the ratio recommended by the manufacturer directly into the mixer along with the aggregate, cement, and water. Add pigment while the mixer is operating at mixing speed. Continue mixing for 5 to 10 minutes or between 50 and 100 revolutions.

The pattern shall be Cobblestone Random Interlocking.

750-P02 SIDEWALK CONCRETE: The concrete thickness for the "Sidewalk Concrete" bid item shall be 5 inches.

750-P03 SIDEWALK CONCRETE AND SIDEWALK CONCRETE 4IN: Contraction joints shall be sawed in a timely manner and shall be constructed every 4.5' on the 8 or 10' wide shared use path and every 4.5' on the sidewalk. One half-inch expansion joint shall be placed at intervals not to exceed 300'. All sidewalks shall have a No. 3 deformed reinforcing bar placed 24" o.c. both ways. The bar shall be six (6) inches shorter than the width of the slab and placed accurately at one-half the depth of the slab. Plastic chairs will be used. The shared use path shall require No. 3 bars 24" o.c. both ways. Both the sidewalk and shared use path shall require four (4) No. 3 bars 10' long, centered over new utility trenches. All longitudinal and transverse joints shall be sawed. A centerline longitudinal joint shall be sawed on the 8' or wider shared use path. All items listed above shall be included in the price bid for "Sidewalk Concrete" and "Sidewalk Concrete 4In."

750-P04 DRIVEWAY CONCRETE 8IN: All driveways shall be reinforced with No. 4 bars @ 30" o.c. both ways, placed mid-depth in the slab. All driveways shall be tied to existing curb and gutter or existing sidewalk by use of keyways or No. 4 x 12" dowel bars placed mid-depth at 30" o.c. All joints are to be sawed. All items listed shall be included in the price bid for "Driveway Concrete 8In."

750-P05 DETECTABLE WARNING PANELS: Detectable warning panels shall be cast-in-place, unpainted cast iron plates manufactured by East Jordan Iron Works, Neenah Foundry, or an approved equal.

752-P01 FENCE REMOVE AND RESET: The Contractor shall coordinate with the City of Fargo Landfill Supervisor, Paul Hanson, 701-730-8705, prior to removing any fence adjacent to the City of Fargo landfill.

762-P01 PAVEMENT MARKING: Pavement marking will not be measured for payment unless changes are made in the field. Payment for pavement marking will be at contract plan quantity.

762-P02 PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED: The 7-inch contrast pavement marking used for the broken white skip lines from Sta 122+27 to 133+54 shall be paid for as "Preformed Patterned Pvmt Mk 8In Line-Grooved."

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770- 100 CONCRETE FOUNDATIONS: Install and tighten anchor bolts as specified in NDDOT Traffic Signal Standards and Combination Sign and Light Standards Section 754.04 D.5, "Overhead Sign Structures".

770 - P01 The contractor shall furnish shop drawings for approval within 21 days after awarding of the contract. After approval of shop drawings, the contractor will have 14 days to furnish evidence to the engineer that all required materials have been ordered.

770 - P02 Two inch diameter rigid conduit (innerduct): Innerduct shall be schedule 40, smooth outside, smooth inside, controlled outside diameter at 2.375", inside diameter of 2.047", minimum wall thickness of .154" and color "red".

Four inch rigid conduit (innerduct): Innerduct shall be schedule 40, smooth outside, smooth inside, controlled outside diameter at 4.5", inside diameter of 3.498", minimum wall thickness of 0.237" and color "red". Innerduct shall be installed at a minimum depth of 24" below finished grade. Route innerduct parallel to the curb line as shown on plan. A divergence in innerduct location shall be verified with project engineer and shown on contractor's set of plans with a copy to be provided to the project engineer upon completion of project. Innerduct will be measured by the linear foot. Measurement will be from center of base to center of base/pull box/feed point. Conduit will not be allowed as an alternative. The method of installation and required trace wire shall be included in the price bid for two inch diameter rigid conduit. It shall be acceptable for the street lighting innerduct and traffic signal innerduct/conduit to be installed in a shared trench.

Duct seal all innerduct/conduit entering or exiting foundations, feed points and pull boxes.

770 - P03 Conductor: The conductor between lighting standards, pull boxes, and feed points shall be:

Feed Point (A):

Circuit 1 (West)	Circuit 2 (East)
(2)#2 RHW	(2)#2 RHW
(1)#4 RHW	(1)#4 RHW

Feed Point (B):

Circuit 1 (West)	Circuit 2 (East)
(3)#6 RHW	(3)#6 RHW

Feed Point (C):

Circuit 1 (West)	Circuit 2 (East)
(3)#6 RHW	(3)#6 RHW

All conductors shall be continuously color coded. All conductors shall be installed in innerduct.

Conductors within standards, between distribution conductors and luminaires shall be #10 stranded copper 600-Volt, type RHW. All standards shall have individual conductor runs and fuses for each fixture.

Conductor connections in street light bases shall be Tyco Electronics Gelcap SL Splice Cover Kit with connector. New connectors and fuses are required in all new and any existing street lights with new innerduct and conductor. All other conductor splices shall be, UL listed, with powergel sealant type connections meeting all codes for desired application.

770 - P04 Concrete Foundation: Location and size of concrete foundation shall be as shown on the street lighting schedule. Column form shall be used for a minimum of the top 18". Foundation locations shall be staked by the project surveyor. Top elevation shall be 3" above finished grade. Any change in the location or elevation shall be verified with the project engineer. Hand dug foundations may be required in some cases due to other underground utilities. Costs for hand dug foundations shall be included in the price for the lighting system. Column forms shall be removed before seeding.

770 - P05 40' Standard: Millerbernd, 40' stainless steel standard with breakaway "H" base, 2-3/8" OD slipfitter, frost finish, no mast arm.

770 - P06 Luminaire: Luminaire shall be American Electric Lighting, Autobahn Series ATB2, LED with drive current of 1000mA, 215W, multi-Volt, 4000K, roadway type II optics, color gray with no photocontrol receptacle, and NEMA label.

770 - P07 Feed Point: Feed point shall be pad mounted. The cabinet shall be 15"W x 36"H x 12"D with a NEMA 3R rating. The cabinet shall be constructed of 16 gauge #304 stainless steel, stainless steel hardware and a padlockable stainless steel handle with 3-point latch operation, continuous hinged deadfront, 2" drip shield, photocell window with gasketed lexan located on side and back of pedestal cabinet. All circuit breakers shall be rated 22,000 AIC. The pedestal cabinet shall also include a factory installed, meter trim which meets the requirements of the local utility company.

Meter to be provided by local utility company. All exposed conduit shall be 2" galvanized steel. Concrete pad foundation shall be included in the price bid for lighting system.

Feed Point: Prefabricated feed point enclosure to be assembled by States Electric or by Milbank Manufacturing Company, UL 508 listed, service entrance rated.

770 - P08 "Lighting System (Roadway)" Bid Item 770-9400, shall include all labor and materials associated with Section 140 and shall be paid Lump Sum. Roadway lighting systems in Section 140 consist of three main segments of 12th Ave N and shall be included within the overall "Lighting System (Roadway)" Lump Sum Bid Item.

Street Light System A – Sta. 73+17 to Sta. 152+00
 Street Light System B – Sta. 154+15 to Sta.173+91
 Street Light System C – Sta.176+11 to Sta. 200+93

772-P01 TRAFFIC SIGNALS
 All Traffic Signal Items must be installed following section 4200 of the 2015 City of Fargo Specifications.

All IT Conduit items must be installed following section 4200 of the 2015 City of Fargo Specifications.

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FILE LOCATION: R:\Civil\3D Drawings\DESIGN\16843-COVER-NOTES.dwg

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	N.D.	SU-8-992(036)037	20057	6	12

- 724-W19 WATER MAIN FLUSHING: Before putting shut down main line in service, the line shall be tested for bacteria twice within 48 hours per the ND State Health Department and pass both tests. Also, the line shall be flushed from both ends during City hours (7:00am - 4:00pm) and have a city representative there at time of flushing. All hydrant leads shall be flushed a minimum of 5 minutes or until water is clear. This shall be completed after flushing main line.
- 724-W20 CONNECT TO EXISTING WATER MAIN: This shall include the areas where existing water main is being adjusted for storm sewer crossings at Pro Pallet, Center Street, Drain 45, and 9th St. NE. This work shall involve cutting existing pipe and installing a MACRO coupling by Romac. This shall be paid under the "Connection To Existing Main" item.
- 724-W21 TAPPING SLEEVES AND VALVES: The Tapping Sleeve & Valve items will include a ductile iron mechanical joint tapping sleeve, gate valve, and gate valve box installed at the location shown in the plans. No separate payment for "Connection to Existing Main" will be made.
- 724-W22 ABANDON GATE VALVES: Abandoning existing gate valves along the forcemain abandonment shall be paid for under the "Abandon Valve Box" item. This shall involve removing the top section of the cast iron valve box and filling the valve box with controlled density fill or sand.
- 724-W23 REMOVE GATE VALVES: Removing existing gate valves shall be paid for under the "Remove Gate Valve & Box" item. This shall involve removing the existing valve and box from the site and disposing of the valve and box
- 724-W24 WATER MAIN BORING: For water main bores, the pipe and boring shall be paid for separately. Water main borings shall be paid for under the respective boring item. Water main pipe shall be paid for under the respective pipe item
- 740-W01 POLYSTYRENE INSULATION BOARD: Provide insulation per general details. Incidental to storm sewer item.
- 752-W01 TEMPORARY SAFETY FENCE: Where excavations or open pits are to remain unbackfilled overnight, the Contractor will be required to encircle the open area by a standard 4' high, orange safety fence, or equal-type fencing. 1000LF was estimated for this application. Other safety fence shall also be installed per traffic control sheets. Some other fence may be required as directed by the engineer. All payment shall be under "Temporary Safety Fence" item.
- 754-W01 SALVAGE SIGN-TYPE D: Sign assemblies shown for removal at the following locations shall be paid for under the "Salvage Sign-Type D". This includes taking care to not damage the sign post, anchor, and sign during removal, then delivering to the City. This item is for the sign removals at the SA18 (8th Avenue Northwest and east of Armour Street Northwest), SA29 (east side of Center Street in northwest corner of Schiele Enterprises Inc.), SA32 (northeast quadrant of 12th Avenue Northwest and Armour Street Northwest), and SA37 (12th Avenue Northeast and east of Drain 45) sanitary lift station abandonments.
- 970-W01 PROJECT PERSONNEL: The Contractor shall be required to have an International Society of Arboriculture (ISA) certified arborist or other certified individual that is knowledgeable of trees and proper planting conditions on the project. Should any field conditions be deemed inappropriate for the specified trees, it is the Contractor's responsibility to submit a written proposal for appropriate tree substitutions. The Contractor shall have within his/her company an individual who is a Certified Herbicide Applicator. The cost is included in the bid price of the trees.
- 970-W02 PLANT SIZES AND TYPES: Trees shall be 4 inch caliper minimum at 210 12th Ave. N.W. and 1.5 inch minimum at the Roundabout. Shrubs shall be 3 foot minimum. Any plant which does not meet the specified minimum size shall be rejected. If a Contractor is unable to locate sufficient plants in specified sizes, negotiation for unit price adjustment shall be concluded prior to planting. Tree types shall be Common

- 970-W03 PLANT ACCEPTANCE: Plants which lack proper proportions, have serious injuries to the bark or roots, broken branches, objectionable disfigurement, shriveled and/or dry roots, broken bails, insect pests, diseases, or which are not found to comply with the specifications in any way will be rejected. Rejected plants shall be removed from the project site within 48 hours and shall become the property of the Contractor.
- 970-W04 PLANTING AREA SCORING: The sides and bottom of planting pits shall be scarified to remove any glazing affects caused by digging. The cost is included in the bid price of the trees.
- 970-W05 WATERING BAGS: Each tree shall require a permanent watering bag that is made of polyethylene reinforced with nylon webbing and treated with U.V. inhibitors, is watertight on all sides with ¼" heat seals, is secured to the tree with heavy duty nylon zippers, and has drip holes cored through both ply of material to allow for adjustable drip times. Contractor shall periodically fill the bags with water. Bags shall be removed by October 1st and reinstalled in the spring. Bag shall become property of the City. The cost is included in the bid price of the trees.
- 970-W06 PLANTING SOIL TYPE: The backfill shall be a suitable loam/clay mixture. When possible, use existing soil as backfill. In heavy clay soils, amendments may need to be added to improve soil mixture. Contractor to notify Project Engineer should this situation occur. Contractor to mix amendments prior to filling the hole to prevent stratification. The cost is included in the bid price of the trees.
- 970-W07 BACKFILL INSTALLATION: Each plant pit shall be backfilled with the approved planting soil placed in layers around the roots. Each layer shall be tamped carefully in a manner to avoid injury to the roots or disturbing the position of the plant. When approximately 2/3 to 3/4 of the planting pit has been backfilled, the hole shall be watered so as to settle the soil in and around all of the roots. After water has been absorbed, the planting pit shall be filled with the planting soil, tamped lightly to grade and watered thoroughly again. Any further settlement shall be brought to grade with additional planting soil. Contractor to ensure proper drainage and prevent any puddling of water around the plant trunks and stems. All plants shall be watered within 2 hours of installation. Costs to be included in the bid price of the trees.
- 970-W08 TREE STAKING: Trees shall be staked immediately upon being planted and the staking shall be considered and organized as part of the planting process. Stakes shall be snug after settling has taken place. The Contractor shall be responsible for the removal of the stakes after (2) years or as determined by the Project Engineer or City Forestry. Contact the Project Engineer in advance for approval. The cost is included in the bid price of the trees.

This document was originally issued and sealed by Kyle J. McCamy Registration Number PE-6396, on 09/23/15 and the original document is stored at the City of West Fargo

12TH AVENUE NORTH RECONSTRUCTION
NOTES

ESTIMATE OF QUANTITIES

SPEC	CODE	ITEM DESCRIPTION	UNIT	SU-8-992(036)037	DRAINAGE	LPA FUNDED	TOTAL
103	0100	CONTRACT BOND	L SUM	1	-	-	1
107	0100	RAILWAY PROTECTION INSURANCE	L SUM	1	-	-	1
201	0330	CLEARING & GRUBBING	L SUM	1	-	-	1
202	0112	REMOVAL OF CONCRETE	SY	14	-	509	523
202	0130	REMOVAL OF CURB & GUTTER	LF	342	-	24	366
202	0165	REMOVE & SALVAGE BASE & SURFACING	TON	38,332	-	-	38,332
202	0170	REMOVAL OF CULVERTS-ALL TYPES & SIZES	LF	2,158	-	-	2,158
202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	1,546	-	101	1,647
202	0210	REMOVAL OF MANHOLES	EA	3	-	1	4
202	0235	REMOVAL OF CATCH BASIN	EA	1	-	-	1
202	0312	REMOVE EXISTING FENCE	LF	-	-	269	269
203	0101	COMMON EXCAVATION-TYPE A	CY	41,576	-	-	41,576
203	0109	TOPSOIL	CY	49,087	-	-	49,087
203	0121	TOPSOIL-WETLAND	CY	1,625	-	-	1,625
203	0138	COMMON EXCAVATION-SUBCUT	CY	19,909	-	-	19,909
203	0140	BORROW-EXCAVATION	CY	88,127	-	-	88,127
216	0100	WATER	M GAL	3,998	-	-	3,998
251	0100	SEEDING CLASS I	ACRE	7.1	-	-	7.1
251	0200	SEEDING CLASS II	ACRE	32.5	-	-	32.5
253	0101	STRAW MULCH	ACRE	32.4	-	-	32.4
253	0201	HYDRAULIC MULCH	ACRE	7.1	-	-	7.1
255	0103	ECB TYPE 3	SY	868	-	-	868
256	0100	RIPRAP GRADE I	CY	66.8	-	-	66.8
260	0200	SILT FENCE SUPPORTED	LF	2,685	-	-	2,685
260	0201	REMOVE SILT FENCE SUPPORTED	LF	2,685	-	-	2,685
261	0112	FIBER ROLLS 12IN	LF	37,570	-	-	37,570
261	0113	REMOVE FIBER ROLLS 12IN	LF	17,505	-	-	17,505
262	0100	FLOTATION SILT CURTAIN	LF	45	-	-	45
262	0101	REMOVE FLOTATION SILT CURTAIN	LF	45	-	-	45
302	0050	TRAFFIC SERVICE AGGREGATE	TON	1,500	-	-	1,500
302	0100	SALVAGED BASE COURSE	TON	59,653	-	-	59,653
411	0105	MILLING PAVEMENT SURFACE	SY	243	-	-	243
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	427	-	-	427
430	2000	PATCHING	TON	-	-	225	225
550	0312	10.5IN NON REINF CONCRETE PVMT CL AE-DOWELED	SY	72,990	-	-	72,990
702	0100	MOBILIZATION	L SUM	1	-	-	1
704	0100	FLAGGING	MHR	500	-	-	500
704	1000	TRAFFIC CONTROL SIGNS	UNIT	4,266	-	-	4,266
704	1051	TYPE II BARRICADE	EA	2	-	-	2
704	1052	TYPE III BARRICADE	EA	55	-	-	55
704	1060	DELINEATOR DRUMS	EA	69	-	-	69
704	1072	FLEXIBLE DELINEATORS	EA	42	-	-	42
706	0500	AGGREGATE LABORATORY	EA	1	-	-	1
708	1531	INLET PROTECTION-FIBER ROLL 12IN	EA	73	-	-	73
708	1533	REMOVAL INLET PROTECTION-FIBER ROLL 12IN	EA	48	-	-	48

ESTIMATE OF QUANTITIES

SPEC	CODE	ITEM DESCRIPTION	UNIT	SU-8-992(036)037	DRAINAGE	LPA FUNDED	TOTAL
708	1540	INLET PROTECTION-SPECIAL	EA	165	-	-	165
708	1541	REMOVE INLET PROTECTION-SPECIAL	EA	39	-	-	39
709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	88,231	-	-	88,231
710	0250	TEMPORARY BYPASS DRAINAGE SYSTEM	EA	1	-	-	1
714	0115	PIPE CONC REINF 12IN CL III-STORM DRAIN	LF	265	-	-	265
714	0210	PIPE CONC REINF 15IN CL III-STORM DRAIN	LF	3,992	1,582	-	5,574
714	0315	PIPE CONC REINF 18IN CL III-STORM DRAIN	LF	874	828	-	1,702
714	0405	PIPE CONC REINF 21IN CL III-STORM DRAIN	LF	179	1,692	-	1,871
714	0620	PIPE CONC REINF 24IN CL III-STORM DRAIN	LF	240	1,642	-	1,882
714	0710	PIPE CONC REINF 27IN CL III-STORM DRAIN	LF	55	1,742	-	1,797
714	0825	PIPE CONC REINF 30IN CL III-STORM DRAIN	LF	126	804	-	930
714	0910	PIPE CONC REINF 36IN CL III-STORM DRAIN	LF	-	1,098	-	1,098
714	1010	PIPE CONC REINF 42IN CL III-STORM DRAIN	LF	-	394	-	394
714	1110	PIPE CONC REINF 48IN CL III-STORM DRAIN	LF	-	780	-	780
714	1212	PIPE CONC REINF 54IN CL III-STORM DRAIN	LF	-	928	-	928
714	1312	PIPE CONC REINF 60IN CL III-STORM DRAIN	LF	-	512	-	512
714	1412	PIPE CONC REINF 66IN CL III STORM DRAIN	LF	-	281	-	281
714	1512	PIPE CONC REINF 72IN CL III STORM DRAIN	LF	-	449	-	449
714	3000	END SECT-CONC REINF 12IN	EA	3	-	-	3
714	3005	END SECT-CONC REINF 15IN	EA	17	-	-	17
714	3010	END SECT-CONC REINF 18IN	EA	1	-	-	1
714	3015	END SECT-CONC REINF 21IN	EA	1	-	-	1
714	3020	END SECT-CONC REINF 24IN	EA	3	-	-	3
714	4108	PIPE CONDUIT 27IN	LF	-	187	-	187
714	4163	PIPE CONDUIT 27IN-JACKED OR BORED	LF	-	100	-	100
714	5805	END SECT CORR STEEL .064IN 15IN	EA	1	-	-	1
714	5825	END SECT CORR STEEL .079IN 30IN	EA	1	-	-	1
714	5845	END SECT CORR STEEL .109IN 54IN	EA	1	-	-	1
714	5855	END SECT CORR STEEL .109IN 72IN	EA	1	-	-	1
714	7040	SANITARY SEWER SERVICE CONNECTION	EA	-	-	14	14
714	8050	PIPE STEEL SMOOTH WALL .719IN 54IN BORED	LF	-	135	-	135
714	8500	CASING PIPE 20IN	LF	-	-	153	153
714	8516	CASING PIPE 36IN	LF	-	-	100	100
714	9680	PLUG PIPE-ALL TYPES & SIZES	EA	1	-	-	1
714	9696	EDGEDRAIN NON PERMEABLE BASE	LF	26,753	-	-	26,753
722	0100	MANHOLE 48IN	EA	60	-	-	60
722	0110	MANHOLE 60IN	EA	23	-	-	23
722	0120	MANHOLE 72IN	EA	5	-	-	5
722	0130	MANHOLE 84IN	EA	5	-	-	5
722	0140	MANHOLE 96IN	EA	8	-	-	8
722	0220	MULTI MANHOLE	EA	5	-	-	5
722	0300	MANHOLE SANITARY	EA	-	-	27	27
722	2490	MANHOLE STORM CONNECTION	EA	9	-	-	9
722	2500	MANHOLE SPECIAL	EA	-	-	2	2
722	3291	ABANDON SANITARY SEWER MANHOLE	EA	-	-	12	12

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Brent Muscha

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9/25/2015

ESTIMATE OF QUANTITIES							
SPEC	CODE	ITEM DESCRIPTION	UNIT	SU-8-992(036)037	DRAINAGE	LPA FUNDED	TOTAL
722	3295	ABANDON STORM SEWER MANHOLE	EA	9	-	-	9
722	3297	ABANDON STORM SEWER	LF	12,143	-	1,868	14,011
722	3499	INLET	EA	41	-	-	41
722	3510	INLET-TYPE 2	EA	30	-	-	30
722	3520	INLET-TYPE 2 DOUBLE	EA	14	-	-	14
722	6140	ADJUST GATE VALVE BOX	EA	27	-	-	27
722	6200	ADJUST MANHOLE	EA	4	-	-	4
722	6240	ADJUST UTILITY APPURTENANCE	EA	1	-	-	1
724	0210	FITTINGS-DUCTILE IRON	LBS	-	-	4,180	4,180
724	0270	REMOVE GATE VALVE & BOX	EA	-	-	3	3
724	0300	GATE VALVE & BOX 6IN	EA	-	-	3	3
724	0314	GATE VALVE & BOX 12IN	EA	-	-	4	4
724	0410	HYDRANT-INSTALL 5IN	EA	-	-	4	4
724	0427	ADJUST HYDRANT	EA	15	-	-	15
724	0430	REMOVE HYDRANT	EA	-	-	1	1
724	0530	TAPPING SLEEVE & VALVE 12IN X 6IN	EA	-	-	2	2
724	0540	TAPPING SLEEVE & VALVE 12IN X 8IN	EA	-	-	1	1
724	0719	WATER LINE 1 1/2IN PVC	LF	-	-	90	90
724	0810	WATERMAIN 6IN PVC	LF	-	-	174	174
724	0830	WATERMAIN 8IN PVC	LF	-	-	111	111
724	0850	WATERMAIN 12IN PVC	LF	-	-	1,829	1,829
724	0852	WATERMAIN 16IN PVC	LF	-	-	40	40
724	0944	CONNECTION TO EXISTING MAIN	EA	-	-	21	21
724	1095	BORE SANITARY SEWER PIPE	LF	-	-	593	593
724	1100	SANITARY SEWER 4IN	LF	-	-	82	82
724	1110	8IN SANITARY SEWER PIPE	LF	-	-	642	642
724	1115	10IN SANITARY SEWER PIPE	LF	-	-	432	432
724	1117	12IN SANITARY SEWER PIPE	LF	-	-	2,598	2,598
724	1118	15IN SANITARY SEWER PIPE	LF	-	-	1,385	1,385
724	1120	6IN SEWER SERVICE PIPE	LF	-	-	700	700
724	1121	18IN SANITARY SEWER PIPE	LF	-	-	1,562	1,562
724	1125	24IN SANITARY SEWER PIPE	LF	-	-	3,575	3,575
724	6005	CORPORATION COCK & SWIVEL BEND 1IN	EA	-	-	1	1
724	6013	ABANDON VALVE BOX	EA	-	-	10	10
724	7018	1IN CURB STOP & BOX-NEW SERVICE	EA	-	-	1	1
724	7020	1IN CU-TYPE K	LF	-	-	112	112
748	0120	CURB & GUTTER MOUNTABLE-TYPE I	LF	434	-	-	434
748	0140	CURB & GUTTER-TYPE I	LF	2,723	-	-	2,723
748	0190	CURB & GUTTER-TYPE I 30IN	LF	26,753	-	24	26,777
750	0030	PIGMENTED IMPRINTED CONCRETE	SY	1,483	-	-	1,483
750	0100	SIDEWALK CONCRETE	SY	9,315	-	-	9,315
750	0115	SIDEWALK CONCRETE 4IN	SY	4,459	-	-	4,459
750	0210	CONCRETE MEDIAN NOSE PAVING	SY	58.5	-	-	58.5
750	1020	DRIVEWAY CONCRETE 8IN	SY	1,254	-	-	1,254

ESTIMATE OF QUANTITIES							
SPEC	CODE	ITEM DESCRIPTION	UNIT	SU-8-992(036)037	DRAINAGE	LPA FUNDED	TOTAL
750	2115	DETECTABLE WARNING PANELS	SF	598	-	-	598
752	0600	FENCE CHAIN LINK	LF	37	-	-	37
752	0911	TEMPORARY SAFETY FENCE	LF	4,019	-	1,000	5,019
752	0922	FENCE REMOVE & RESET	LF	2,435	-	-	2,435
752	2100	VEHICLE GATE	EA	1	-	-	1
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	824.7	-	-	824.7
754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	121.7	-	-	121.7
754	0141	BARRICADE ASSEMBLY A	EA	6	-	-	6
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	1,696	-	-	1,696
754	0592	RESET SIGN PANEL	EA	7	-	-	7
754	0805	OBJECT MARKERS - CULVERTS	EA	25	-	-	25
754	9003	SALVAGE SIGN-TYPE D	EA	-	-	4	4
762	0112	EPOXY PVMT MK MESSAGE	SF	445	-	-	445
762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	3,240	-	-	3,240
762	1280	PREFORMED THERMO PLASTIC PVMT MK MESSAGE	SF	1,524	-	-	1,524
762	1305	PREFORMED PATTERNED PVMT MK 4IN LINE-GROOVED	LF	31,104	-	-	31,104
762	1309	PREFORMED PATTERNED PVMT MK 8IN LINE-GROOVED	LF	3,817	-	-	3,817
762	1317	PREFORMED PATTERNED PVMT MK 16IN LINE-GROOVED	LF	142	-	-	142
762	1325	PREFORMED PATTERNED PVMT MK 24IN LINE-GROOVED	LF	326	-	-	326
766	0100	MAILBOX-ALL TYPES	EA	1	-	-	1
770	9400	LIGHTING SYSTEM (ROADWAY)	L SUM	1	-	-	1
772	0003	SIGNAL STANDARD FOUNDATION	EA	1	-	-	1
772	0100	PULL BOX	EA	2	-	-	2
772	0240	2IN DIAMETER RIGID CONDUIT	LF	258	-	-	258
772	0325	DETECTOR LOOP-POLYETHYLENE CONDUIT PRE-WIRED	LF	836	-	-	836
772	0330	LOOP LEAD-IN CONDUCTOR	LF	1,762	-	-	1,762
772	0400	NO12 AWG 2 CONDUCTOR CABLE	LF	335	-	-	335
772	0401	NO12 AWG 3 CONDUCTOR CABLE	LF	15	-	-	15
772	0405	NO12 AWG 7 CONDUCTOR CABLE	LF	335	-	-	335
772	0490	SAW SLOT	LF	346	-	-	346
772	0695	TYPE V SIGNAL STANDARD	EA	1	-	-	1
772	9205	IT-PULL BOX	EA	10	-	-	10
772	9210	IT-2-2IN CONDUITS-TRENCHED	LF	5,387	-	-	5,387
910	0010	VIDEO INSPECTION - UNDERGROUND PIPE	EA	-	-	1	1
910	0480	TRASH RACK	EA	7	-	-	7
910	0570	MODIFY MANHOLE	EA	1	-	8	9
920	0099	PUMPING EQUIPMENT	EA	-	-	1	1
970	2011	AMUR MAPLE	EA	4	-	-	4
970	2050	COMMON HACKBERRY	EA	5	-	-	5
970	2155	SKYLINE HONEYLOCUST	EA	4	-	-	4
970	2456	PRAIRIE EXPEDITION AMERICAN ELM	EA	1	-	-	1
970	5295	COMMON PURPLE LILAC	EA	35	-	-	35
990	0400	PIPE CLEANOUT	EA	-	-	8	8
990	0450	ABANDON WELL	EA	-	-	8	8

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED				TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			1	2	3	4			
D3-36	36"x6"	STREET NAME SIGN (Sign and installation only)						6	
G20-1-60	60"x24"	ROAD WORK NEXT ___ MILES						34	
G20-1b-60	60"x24"	WORK IN PROGRESS/ NO WORK IN PROGRESS (Sign and installation only)						26	
G20-2-48	48"x24"	END ROAD WORK	9	8	6	5	9	19	171
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)						18	
G20-10-108	108"x48"	CONTRACTOR SIGN						64	
G20-50a-72	72"x36"	ROAD WORK NEXT ___ MILES RT & LT ARROWS						37	
G20-52a-72	72"x24"	ROAD WORK NEXT ___ MILES RT or LT ARROW						30	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT						59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)						10	
M1-4-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)						10	
M1-5-24	24"x24"	STATE ROUTE MARKER (Post and installation only)						10	
M3-1-24	24"x12"	NORTH (Mounted on route marker post)				6		7	42
M3-2-24	24"x12"	EAST (Mounted on route marker post)	17	13	8	7	17	7	119
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)				8		7	56
M3-4-24	24"x12"	WEST (Mounted on route marker post)	18	13	14	8	18	7	126
M4-8-24	24"x12"	DETOUR (Mounted on route marker post)						7	
M4-8a-24	24"x18"	END DETOUR	2	4	2	6	6	13	78
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT	27	33	14	17	33	15	495
M4-9aR-48	48"x48"	DETOUR EXIT		2			2	35	70
M4-10-48	48"x18"	DETOUR ARROW RIGHT or LEFT	3	4	3	4	4	23	92
M5-1-21	21"x15"	ARROW AHD AND RT or LT (Mounted on route marker post)						7	
M5-1-30	30"x30"	ADVANCED DETOUR ARROW	12	8	5	6	12	17	204
M5-2-21	21"x15"	ARROW AHD UP & RT or LT (Mounted on route marker post)						7	
M6-1-21	21"x15"	ARROW RT or LT (Mounted on route marker post)						7	
M6-2-21	21"x15"	ARROW UP & RT or LT (Mounted on route marker post)						7	
M6-3-21	21"x15"	ARROW AHD (Mounted on route marker post)						7	
R1-1-48	48"x48"	STOP			2		2	32	64
R1-1a-18	18"x18"	STOP and SLOW PADDLE Back to Back	4	4	4	4	4	5	20
R1-2-60	60"x60"	YIELD						29	
R1-4	18"x6"	ALL WAY			3		3	5	15
R2-1-48	48"x60"	SPEED LIMIT						39	
R2-1a-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)						10	
R3-7-48	48"x48"	LEFT or RIGHT LANE MUST TURN LEFT or RIGHT	2	2			2	35	70
R3-1	24"x24"	NO RIGHT TURN	1	1	2		2	14	28
R3-2	24"x24"	NO LEFT TURN	3	5	1		5	14	70
R4-1-48	48"x60"	DO NOT PASS						39	
R4-7-48	48"x60"	KEEP RIGHT SYMBOL						39	
R5-1-48	48"x48"	DO NOT ENTER						35	
R6-1-36	36"x12"	ONE WAY RIGHT or LEFT						13	
R7-1-12	12"x18"	NO PARKING						11	
R10-6-24	24"x36"	STOP HERE ON RED						16	
R11-2-48	48"x30"	ROAD CLOSED	9	12	2	4	12	28	336
R11-2a-48	48"x30"	STREET CLOSED						28	
R11-3a-60	60"x30"	ROAD CLOSED ___ MILES AHEAD LOCAL TRAFFIC ONLY						31	
R11-3c-60	60"x30"	STREET CLOSED ___ MILES AHEAD LOCAL TRAFFIC ONLY						31	
R11-4a-60	60"x30"	STREET CLOSED TO THRU TRAFFIC	1	6	1	4	6	31	186
W1-3-48	48"x48"	RIGHT or LEFT SHARP REVERSE CURVE ARROW						35	
W1-4-48	48"x48"	RIGHT or LEFT REVERSE CURVE ARROW	2	2			2	35	70
W1-4b-48	48"x48"	DOUBLE RIGHT or LEFT REVERSE CURVE ARROW						35	
W1-6-48	48"x24"	LARGE ARROW	1	1			1	26	26
W3-1-48	48"x48"	STOP AHEAD SYMBOL			1		1	35	35
W3-3-48	48"x48"	SIGNAL AHEAD SYMBOL						35	
W3-4-48	48"x48"	BE PREPARED TO STOP						35	
W3-5-48	48"x48"	SPEED REDUCTION AHEAD						35	
W4-2-48	48"x48"	RIGHT or LEFT LANE TRANSITION SYMBOL						35	
W5-1-48	48"x48"	ROAD NARROWS						35	
W5-8-48	48"x48"	THRU TRAFFIC RIGHT LANE						35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW						35	
W6-3-48	48"x48"	TWO WAY TRAFFIC SYMBOL						35	
W8-1-48	48"x48"	BUMP	4	2	1		4	35	140
W8-3-48	48"x48"	PAVEMENT ENDS						35	
W8-7-48	48"x48"	LOOSE GRAVEL						35	
W8-9a-48	48"x48"	SHOULDER DROP-OFF						35	
W8-11-48	48"x48"	UNEVEN LANES						35	
W8-12-48	48"x48"	NO CENTER STRIPE						35	
W8-53-48	48"x48"	TRUCKS ENTERING HIGHWAY						35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or ___ FT.						35	
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or ___ FT.						35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY						35	
W9-3a-48	48"x48"	CENTER LANE CLOSED SYMBOL						35	
W12-2-48	48"x48"	LOW CLEARANCE SYMBOL						35	
W13-1-24	24"x24"	___ MPH ADVISORY SPEED PLATE (Mounted on warning sign post)						11	
W13-4-48	48"x60"	RAMP ARROW						39	
W14-3-48	48"x36"	NO PASSING ZONE						23	
W20-1-48	48"x48"	ROAD WORK AHEAD or ___ FT or ___ MILE	9	10	7	5	10	35	350
W20-2-48	48"x48"	DETOUR AHEAD or ___ FT	4	4	2	4	4	35	140
W20-3-48	48"x48"	ROAD or STREET CLOSED AHEAD or ___ FT.	9	9	2	4	9	35	315
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or ___ FT.						35	
W20-5-48	48"x48"	RIGHT or LEFT LANE CLOSED AHEAD or ___ FT.						35	
W20-7a-48	48"x48"	FLAGGING SYMBOL	4	4	4	4	4	35	140
W20-7k-24	24"x18"	___ FEET (Mounted on warning sign post)						10	

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED				TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			1	2	3	4			
W20-8-48	48"x48"	STREET CLOSED						35	
W20-51-48	48"x48"	EQUIPMENT WORKING						35	
W20-52-54	54"x12"	NEXT ___ MILES (Mounted on warning sign post)						12	
W21-1a-48	48"x48"	WORKERS SYMBOL						35	
W21-2-48	48"x48"	FRESH OIL						35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or ___ FT						35	
W21-5-48	48"x48"	SHOULDER WORK						35	
W21-5a-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED						35	
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or ___ FT.						35	
W21-6a-48	48"x48"	SURVEY CREW AHEAD						35	
W21-50-48	48"x48"	BRIDGE PAINTING AHEAD or ___ FT.						35	
W21-51-48	48"x48"	MATERIAL ON ROADWAY						35	
W22-8-48	48"x48"	FRESH OIL LOOSE ROCK						35	
R9-9	24"X12"	SIDEWALK CLOSED	1	2			2	12	24

SPECIAL SIGNS									
SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED				TOTAL AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
			1	2	3	4			
D3-1	30"x9"	12TH AVE N	35	16	22	15	35	7	245
D3-1	24"x9"	9TH ST				14	14	6	84
D3-1	24"x9"	CO RD 17	6	19			19	6	114
CON SGN 1	60"x30"	12TH AVE N CLOSED AT 9TH ST FOLLOW DETOUR	2	1	1		2	31	62
CON SGN 2	60"x30"	12TH AVE N CLOSED AT CR 17 FOLLOW DETOUR	2	1			2	31	62
CON SGN 3	60"x30"	12TH AVE N CLOSED WEST OF 45TH ST FOLLOW DETOUR	1	1	1	1	1	31	31
CON SGN 4	60"x30"	CENTER STREET CLOSED AT 12TH AVE N FOLLOW DETOUR		1			1	31	31
CON SGN 5	60"x30"	CR 17 CLOSED AT 12TH AVE N FOLLOW DETOUR		2			2	31	62
CON SGN 6	60"x30"	12TH AVE N CLOSED AT CENTER ST FOLLOW DETOUR			1		1	31	31
CON SGN 7	60"x30"	9TH STREET CLOSED AT 12TH AVE N FOLLOW DETOUR				2	2	31	62

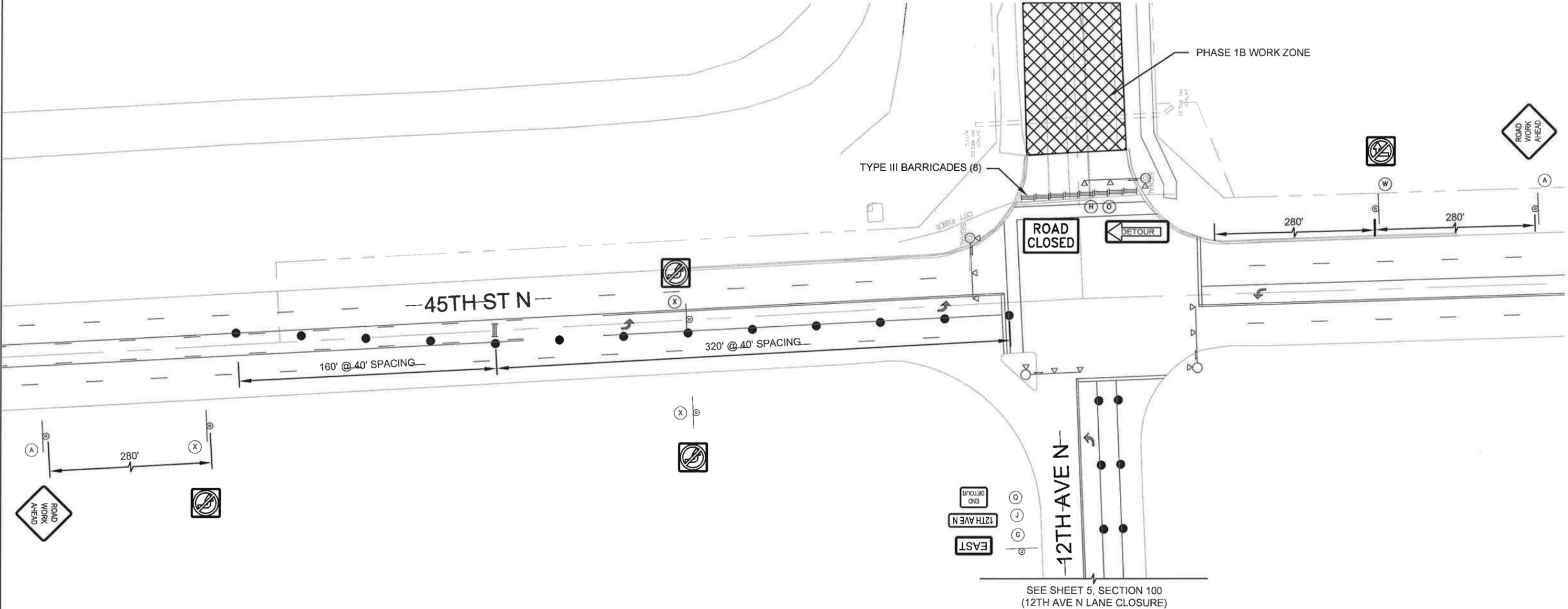
SPEC & CODE		TOTAL UNITS	
704-1000	TRAFFIC CONTROL SIGNS		4266

SPEC & CODE	DESCRIPTION	UNIT	QUANTITY				TOTAL QUANTITY
			1	2	3	4	
704-0100	FLAGGING	MHR	125	125	125	125	500
704-1041	ATTENUATION DEVICE-TYPE B-55	EACH					
704-1043	ATTENUATION DEVICE-TYPE B-65	EACH					
704-1044	ATTENUATION DEVICE-TYPE B-70	EACH					
704-1050	TYPE I BARRICADES	EACH					
704-1051	TYPE II BARRICADES	EACH	1	2			2
704-1052	TYPE III BARRICADES	EACH	29	55	12	24	55
704-1060	DELINEATOR DRUMS	EACH	56	69	35	25	69
704-1065	TRAFFIC CONES	EACH					
704-1067	TUBULAR MARKERS	EACH					
704-1070	DELINEATOR	EACH					
704-1072	FLEXIBLE DELINEATORS	EACH	20	42			42
704-1081	VERTICAL PANELS - BACK TO BACK	EACH					
704-1085	SEQUENCING ARROW PANEL - TYPE A	EACH					
704-1086	SEQUENCING ARROW PANEL - TYPE B	EACH					
704-1087	SEQUENCING ARROW PANEL - TYPE C	EACH					
704-1088	SEQUENCING ARROW PANEL - TYPE C - CROSSOVER	EACH					
704-1095	TYPE B FLASHERS	EACH					
704-3501	PORTABLE PRECAST CONCRETE MED BARRIER	LF					
704-3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EACH					
762-0200	RAISED PAVEMENT MARKERS	EACH					
762-0420	SHORT TERM 4IN LINE - TYPE R	LF					
762-0430	SHORT TERM 4IN LINE - TYPE NR	LF	1620	1620			3240
762-1500	OBLITERATION OF PVMT MK	SF					
772-2110	FLASHING BEACON - POST MOUNTED	EACH					

NOTE:
If additional signs are required, units will be calculated using the formula from Section III-19.06 of the Design Manual.
<http://www.dot.nd.gov/>

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**12TH AVENUE NORTH RECONSTRUCTION
TRAFFIC CONTROL DEVICE LIST**



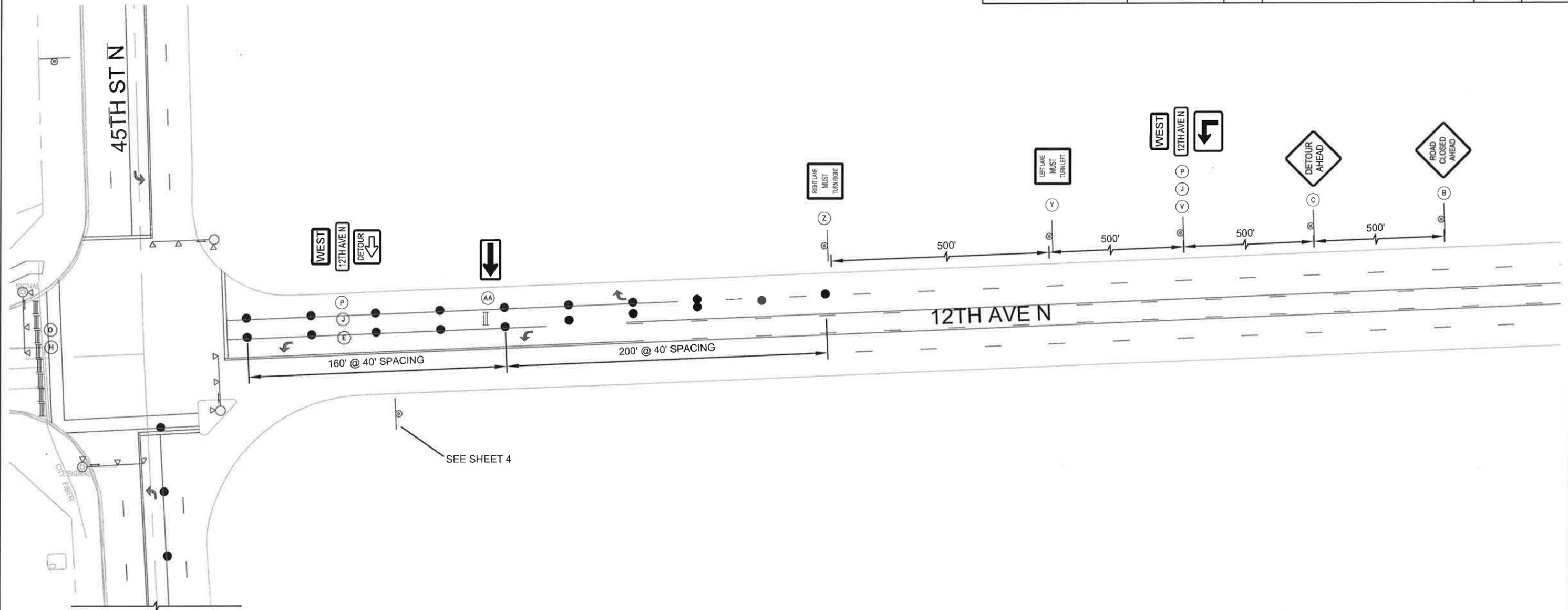
NOTE: SEE SECTION 100 SHEET 5 FOR PHASE 1B DELINEATOR DRUM QUANTITY.

- | | | | | | | | | | | |
|--|----------|--|----------|--|--|-----------|--|----------|--|----------|
| | W20-1-48 | | M4-9L-30 | | | M4-10R-48 | | G20-2-48 | | R3-7L-48 |
| | W20-3-48 | | M4-9R-30 | | | M4-10L-48 | | M5-1R-30 | | R3-7R-48 |
| | W20-2-48 | | M4-8a-24 | | | M3-4-24 | | M5-1L-30 | | |
| | M4-9-24 | | R11-2-48 | | | M3-2-24 | | R3-1-24 | | |
| | | | R11-4-60 | | | M3-1-24 | | R3-2-24 | | |
| | | | | | | M3-3-24 | | | | |
| | | | | | | | | | | |

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12TH AVENUE NORTH TRAFFIC CONTROL
DETOUR PHASE 1B PLAN

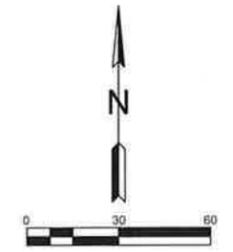
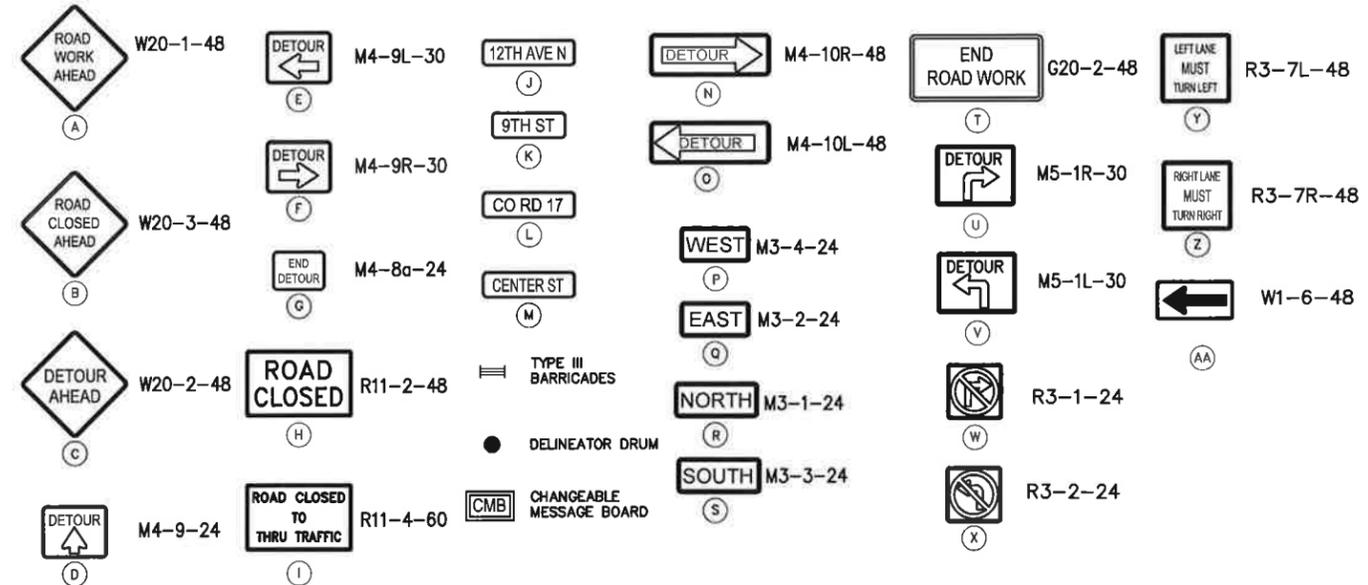
9/23/2015 5:13:07 PM Topping, Crystal Y:\omaha\120100SU0120185_00\Eng_Docs\TrafficControl-Shts.dwg



SEE SHEET 4, SECTION 100
(45TH STREET LANE CLOSURE)

SEE SHEET 4

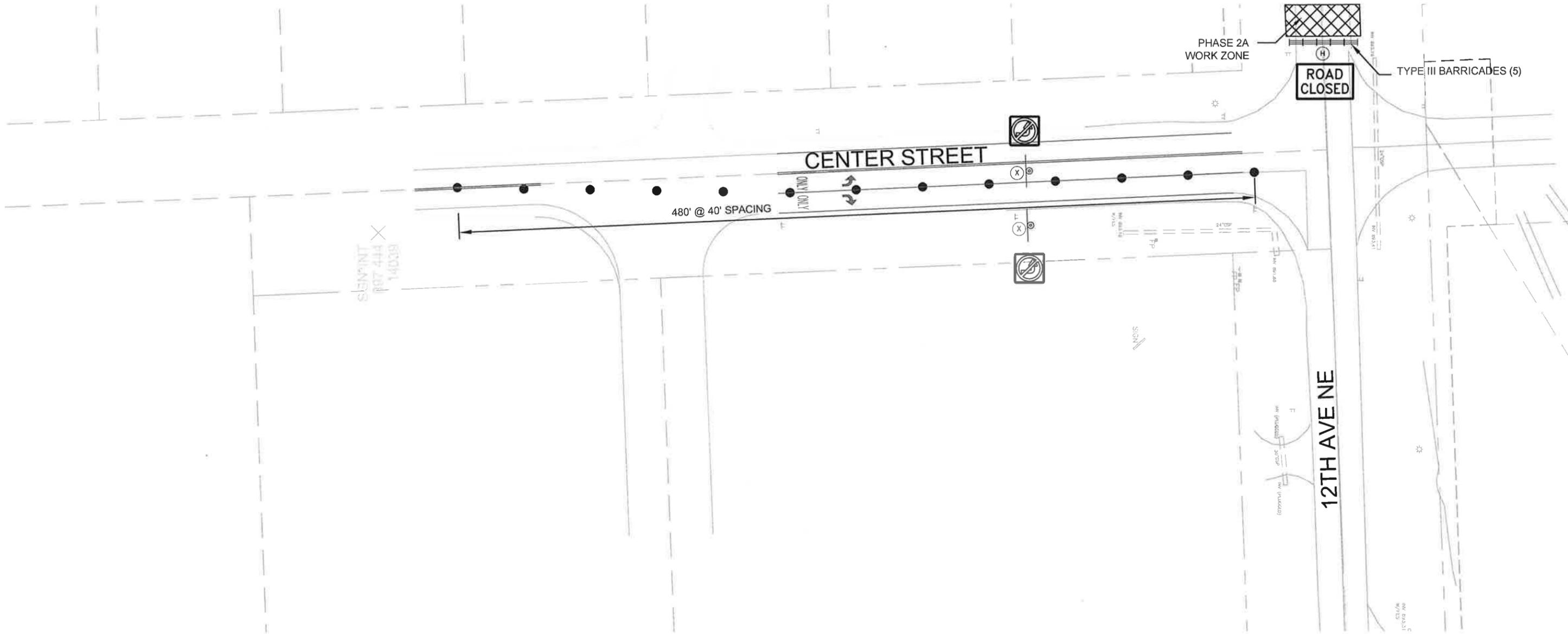
SPEC	CODE	PHASE 1B QUANTITY	
704	1060	DELINEATOR DRUM	
45TH ST N		13	EA
12TH AVE N		18	EA
EXTRA DRUMS		25	EA



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**12TH AVENUE NORTH TRAFFIC CONTROL
DETOUR PHASE 1B PLAN**

9/23/2015 5:13:24 PM Topping, Crystal Y:\omaha\120100S\00120183_00\Eng_Docs\TrafficControl\Shhs.dwg



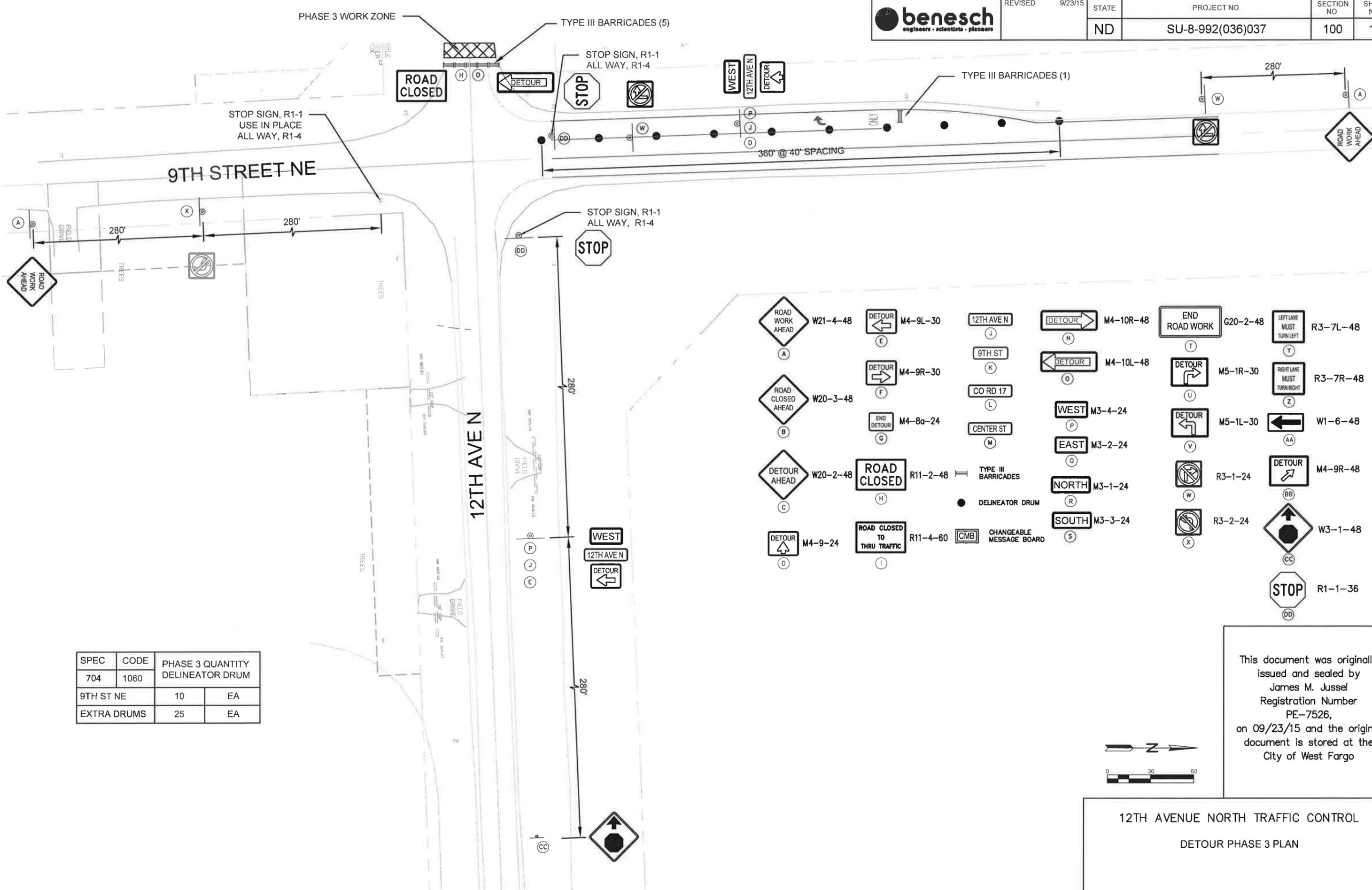
SPEC	CODE	PHASE 2A QUANTITY		NOTE
704	1060	DELINEATOR DRUM		
CENTER ST		13	EA	--
45TH ST N		13	EA	PHASE 1B
12TH AVE N		18	EA	PHASE 1B
EXTRA DRUMS		25	EA	--

NOTE: PHASE 1B AND PHASE 2A CAN BE CLOSED CONCURRENTLY. PHASE 1B DRUMS ARE INCLUDED IN PHASE 2A QUANTITY.

W20-1-48	M4-9L-30	12TH AVEN	M4-10R-48	END ROAD WORK	LEFT LANE MUST TURN LEFT
W20-3-48	M4-9R-30	9TH ST	M4-10L-48	M5-1R-30	RIGHT LANE MUST TURN RIGHT
W20-2-48	M4-8a-24	CO RD 17	WEST	M5-1L-30	←
M4-9-24	ROAD CLOSED	CENTER ST	EAST	R3-1-24	
	ROAD CLOSED TO THRU TRAFFIC	TYPE III BARRICADES	NORTH	R3-2-24	
		DELINEATOR DRUM	SOUTH		
		CHANGEABLE MESSAGE BOARD			

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12TH AVENUE NORTH TRAFFIC CONTROL
DETOUR PHASE 2A



9/24/2015 9:48:03 AM Topping, Crystal Y:\Omahata\120100(SU00120183_00)Eng_Docs\Traffic\TrafficControl-Shts.dwg

SPEC	CODE	PHASE 3 QUANTITY	
704	1060	DELINEATOR DRUM	
9TH ST NE		10	EA
EXTRA DRUMS		25	EA



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**12TH AVENUE NORTH TRAFFIC CONTROL
DETOUR PHASE 3 PLAN**

SIGN REMOVAL QUANTITY (FOR INFORMATION ONLY)

Sign Location (Station)	Offset	Sign Number	Height(in)	Width(in)	SQ. FT.	Sign Message	Remove	Reset
90+96	30' RT	R2-1	30	24	5.0	Speed Limit 40	1	
		SPECIAL	30	30	6.3	72 HR PARKING PERMITTED ON CITY OF WEST FARGO STREETS	1	
91+78	38' Lt.	R2-1	30	24	5.0	Speed Limit 40	1	
92+61	47' Rt.	D3-1	9	42	2.6	Riverwood Dr	1	
		D3-1	9	42	2.6	Riverwood Dr	1	
		D3-1	9	24	1.5	12th Ave NW	1	
		D3-1	9	24	1.5	12th Ave NW	1	
92+62	40' Lt.	R1-1	30	30	6.3	STOP	1	
93+10	52' Rt.	R1-1	30	30	6.3	STOP	1	
93+19	47' Lt.	D3-1	9	24	1.5	12th Ave NW	1	
		D3-1	9	30	1.9	Co HWY 10	1	
		D3-1	9	24	1.5	4th St NW	1	
		SPECIAL	30	30	6.3	72 HR PARKING PERMITTED ON CITY OF WEST FARGO STREETS	1	
93+75	32' Rt.	M1-6	24	18	3.0	Cass County 17	1	
		M6-6L	15	21	2.2	Directional Arrow	1	
93+85	30' Lt.	M1-6	24	18	3.0	Cass County 10	1	
		R17-7(8)	24	30	5.0	Axle Weight Limit 8 Tons	1	
95+80	32' Rt.	W1-7	24	48	8.0	Directional Arrow	1	
97+19	47' Rt.	D3-1	9	24	1.5	12th Ave NW	1	
		D3-1	9	24	1.5	12th Ave NW	1	
		D3-1	9	36	2.3	Armour St	1	
		D3-1	9	36	2.3	Armour St	1	
97+53	30' Lt.	M1-6	24	18	3.0	Cass County 17	1	
		I-5	24	24	4.0	Airport	1	
		M6-1R	20	15	2.1	Directional Arrow	1	
		M6-1R	6	24	1.0	Directional Arrow	1	
97+60	45' Rt.	R1-1	30	30	6.3	STOP	1	
99+54	29' Rt.	R2-1	24	30	5.0	Speed Limit 40	1	
		R12-2(8)	24	30	5.0	Axle Weight Limit 8 Tons	1	
100+79	35' Lt.	R1-1	30	30	6.3	STOP	1	
104+46	21' Rt.	W3-1	36	36	9.0	Stop Ahead	1	
		Supplemental plaque	24	30	5.0	Stop Ahead	1	
105+88	24' Lt.	R2-1	30	24	5.0	Speed Limit 40	1	
		SPECIAL	30	30	6.3	Caution Trucks Entering	1	
107+21	22' Rt.	R1-1	30	30	6.3	STOP	1	
		R1-3P	6	18	0.8	All Way	1	
107+59	60' Lt.	R1-1	30	30	6.3	STOP	1	
		R1-3P	6	18	0.8	All Way	1	
Sign Location (Station)	Offset	Sign Number	Height(in)	Width(in)	SQ. FT.	Sign Message	Remove	Reset
107+60	62' Rt.	D3-1	9	24	1.5	12th Ave NW	1	
		D3-1	9	24	1.5	12th Ave NW	1	

Sign Location (Station)	Offset	Sign Number	Height(in)	Width(in)	SQ. FT.	Sign Message	Remove	Reset
107+60	62' Rt.	D3-1	9	24	1.5	12th Ave NW	1	
		D3-1	9	24	1.5	12th Ave NW	1	
		D3-1	9	30	1.9	Center St	1	
		D3-1	9	30	1.9	Center St	1	
		SPECIAL	24	24	4.0	LOAD RESTRICTION	1	1
108+17	46' Rt.	R1-1	30	30	6.3	STOP	1	
		R1-3P	6	18	0.8	All Way	1	
108+63	17' Lt.	R1-1	24	24	4.0	STOP	1	
		R1-3P	6	18	0.8	All Way	1	
109+39	27' Rt.	R2-1	30	24	5.0	Speed Limit 40	1	
111+46	19' Lt.	W3-1	36	36	9.0	Stop Ahead	1	
		Supplemental plaque	24	30	5.0	Stop Ahead	1	
112+41	25' Lt.	M1-6	24	18	3.0	Cass County 17	1	
		M6-6R	15	18	1.9	Directional Arrow	1	
122+65	28' RT	W10-1	36	36	7.1	Railroad Crossing Ahead	1	
128+29	18' Rt.	R15-1			0.0	Railroad Crossing, To be removed by railroad	1	
128+89	23' Lt.	R15-1			0.0	Railroad Crossing, To be removed by railroad	1	
135+75	31' LT	W10-1	36	36	7.1	Railroad Crossing Ahead	1	
141+53	61' RT	D3-1	9	24	1.5	12th Ave NE	1	
		D3-1	9	24	1.5	12th Ave NE	1	
		D3-1	9	24	1.5	7th St NE	1	
		D3-1	9	24	1.5	7th St NE	1	
141+57	53' Lt.	R1-1	30	30	6.3	STOP	1	
142+02	47' Rt.	R1-1	30	30	6.3	STOP	1	
147+75	28' Lt.	R2-1	30	24	5.0	Speed Limit 40	1	
149+55	39' Lt.	D3-1	9	24	1.5	12th Ave NE	1	
		D3-1	9	24	1.5	12th Ave NE	1	
		D3-1	9	24	1.5	9th St NE	1	
		D3-1	9	24	1.5	9th St NE	1	
149+64	44' Rt.	D3-1	9	24	1.5	12th Ave NE	1	
		D3-1	9	24	1.5	12th Ave NE	1	
		D3-1	9	24	1.5	9th St NE	1	
		D3-1	9	24	1.5	9th St NE	1	
149+64	58' Lt.	R1-1	36	36	9.0	STOP	1	
		W4-4P	18	36	4.5	Cross Traffic Does Not Stop	1	
150+24	65' Rt.	R1-1	36	36	9.0	STOP	1	
		W4-4P	12	30	2.5	Cross Traffic Does Not Stop	1	
154+03	28' Rt.	W2-1	30	24	5.0	Speed Limit 40	1	
157+10	49' Lt.	SPECIAL			0.0	Pipeline Marker, by others (2)		

NOTE:
 1. SIGN REMOVALS QUANTITIES SHOWN ON SHEETS 1 AND 2 SUMMARIZE THE SIGN REMOVALS FOR SECTION 110 SHEETS 3 THRU 14. THE SIGN REMOVAL QUANTITY TABLES ON THESE SHEETS ARE FOR "INFORMATION ONLY" AND SHALL NOT BE PAID FOR SEPARATELY.
 2. SEE SECTION 55 FOR "SALVAGE SIGN - TYPE D" QUANTITY WHICH IS PAID SEPARATELY.

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12TH AVENUE NORTH RECONSTRUCTION
 SIGNING REMOVALS
 QUANTITIES

		LOAD RESTRICTION	24	24	4.0	LOAD RESTRICTION	1		
174+74	37' Lt.	R2-1	30	24	5.0	Speed Limit 40	1		
176+78	27' Rt.	R2-1	30	24	5.0	Speed Limit 40	1		
		City Limit	36	24	6.0	Large City Limit	1	1	
		LOAD RESTRICTION	24	24	4.0	LOAD RESTRICTION	1		
184+67	31' Lt.	D3-1	9	24	1.5	12th Ave N	1		
		D3-1	9	24	1.5	12th Ave N	1		
		D3-1	9	30	1.9	47th St N	1		
		D3-1	9	30	1.9	47th St N	1		
184+79	53' Lt.	R1-1	30	30	6.3	STOP	1		
190+74	39' Lt.	R1-1	30	30	6.3	STOP	1		
190+80	44' Lt.	D3-1	9	24	1.5	12th Ave N	1		
		D3-1	9	24	1.5	12th Ave N	1		
		D3-1	9	36	2.3	Fayland Dr N	1		
		D3-1	9	36	2.3	Fayland Dr N	1		
196+76	43' Lt.	D3-1	9	24	1.5	12th Ave N	1		
		D3-1	9	24	1.5	12th Ave N	1		
		D3-1	9	24	1.5	46th St N	1		
		D3-1	9	24	1.5	46th St N	1		
196+80	56' Lt.	R1-1	30	30	6.3	STOP	1		
200+97	39' Lt.	R2-1	30	24	5.0	Speed Limit 40	1		
		R7-203	18	12	1.5	Emergency Snow Route	1	1	
		R12-4	24	24	4.0	Class I Load Restrictions	1		
202+30	34' LT	D3-1	18	48	6.0	45th St NW	1		
202+63	68' RT	D3-1	18	48	6.0	12th Ave NW	1		
203+50	69' LT	D3-1	18	48	6.0	12th Ave NW	1		
203+50	29' RT	D3-1	18	48	6.0	45th St NW	1		
Center Street									
108+15	189' RT	M1-6	24	24	4.0	Cass County 17	1	1	
		M6-1L	15	24	2.5	Directional Arrow	1	1	
		W2-4	30	30	6.3	I-Intersection sign	1		
108+15	329' RT	R3-7R	30	30	6.3	Right Lane Must Turn Right	1		
108+15	569' RT	R3-8	30	30	6.3	LANE USE SIGN	1		
9th Street									
446+14	25' Rt.	W3-1	36	36	9.0	Stop Ahead	1		
453+03	33' LT	R3-7R	30	30	6.3	Right Lane Must Turn Right	1		
453+94	25' LT	W3-1	36	36	9.0	Stop Ahead	1		
CO RD 17									
2+84	38' RT	D14-2	24	36	6.0	Adopt a Highway	1	1	
		M1-6	24	18	3.0	Cass County 17	1	1	
4+78	42' LT	M1-6	24	18	3.0	Cass County 10	1		
		M1-6	24	18	3.0	Cass County 17	1	1	
		M6-1L	15	21	2.2	Directional Arrow	1	1	
		M6-4	15	21	2.2	Directional Arrow	1		
NO OF SIGNS							118	10	

- NOTE:
- SIGN REMOVALS QUANTITIES SHOWN ON SHEETS 1 AND 2 SUMMARIZE THE SIGN REMOVALS FOR SECTION 110 SHEETS 3 THRU 14. THE SIGN REMOVAL QUANTITY TABLES ON THESE SHEETS ARE FOR "INFORMATION ONLY" AND SHALL NOT BE PAID FOR SEPARATELY.
 - SEE SECTION 55 FOR "SALVAGE SIGN - TYPE D" QUANTITY WHICH IS PAID SEPARATELY.

This document was originally issued and sealed by James M. Jussel Registration Number PE-7526, on 09/23/15 and the original document is stored at the City of West Fargo

12TH AVENUE NORTH RECONSTRUCTION
SIGNING REMOVALS
QUANTITIES