



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

December 9, 2015

ADDENDUM 2 – JOB 3

TO: All prospective bidders on project SU-1-094(170)919, Job No. 3, scheduled for the December 16, 2015 bid opening.

The following plan revisions shall be made:

Plan Revisions:

See attached summary from Adam McGill, PE; Dowl, dated December 8, 2015 for an explanation.

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

For 
CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER
80:dch
Enclosure



December 8, 2015

ADDENDUM 2
Job No. 3

TO: All prospective bidders and suppliers on Projects SU-1-094(170)919, PCN 20591, Job number 3 for the December 16th, 2015 Bid Opening.

Revisions for SU-1-094(170)919:

Remove and Replace Plan Sheets:

- Section 140 Sheet 3
- Section 150 Sheets 3, 6, 15

Changes within the enclosed sheets include:

Section 140

Sheet 3:

- Revised light pole designation to luminaire extension

Section 150

Sheet 3:

- Removed luminaire on signal pole S1

Sheet 6:

- Removed luminaire on signal pole S1

Sheet 15:

- Revised signal pole quantities

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

Sincerely,

A handwritten signature in blue ink that reads "Adam McGill".

Adam McGill, P.E.
Project Manager

Enclosure(s): Revised Plan Sheets

Project #: SU-1-094(170)919, PCN 20591
CC: Seng Marohl, NDDOT

Light Standards				
Station	Conduit Runs		Cable Runs	
	LF	DIA	LF	TYPE
1049+28.6-80.6'			46	(2) #6 RHW
1049+29.3-74.0' rt	7	2"	23	(1) #6 THW
1049+29.3-74.0' rt to 1049+23.8-62.5' rt	15	2"	50 25	(2) #6 RHW (1) #6 THW
1049+23.8-62.5' rt to 1050+35.8-63.7' rt	112	2"	240 120	(2) #6 RHW (1) #6 THW
1050+35.8-63.7' rt to 1049+31.9-38.1' lt	146	2"	308 154	(2) #6 RHW (1) #6 THW

Light Standards				
Station	Conduit Runs		Cable Runs	
	LF	DIA	LF	TYPE
1073+07.2-73.8' rt to 1073+20.3-68.6' rt	15	2"	62 31	(2) #6 RHW (1) #6 THW
1073+20.3-68.6' rt to 1074+55.1-74.5' rt	138	2"	296 148	(2) #6 RHW (1) #6 THW
1074+55.1-74.5' rt to 1074+34.3-107.3' rt	41	2"	98 49	(2) #6 RHW (1) #6 THW
1073+20.3-68.6' rt to 1073+10.6-29.4' lt	99	2"	218 109	(2) #6 RHW (1) #6 THW
1073+10.6-29.4' lt to 1073+80.3-28.8' lt	69	2"	154 77	(2) #6 RHW (1) #6 THW

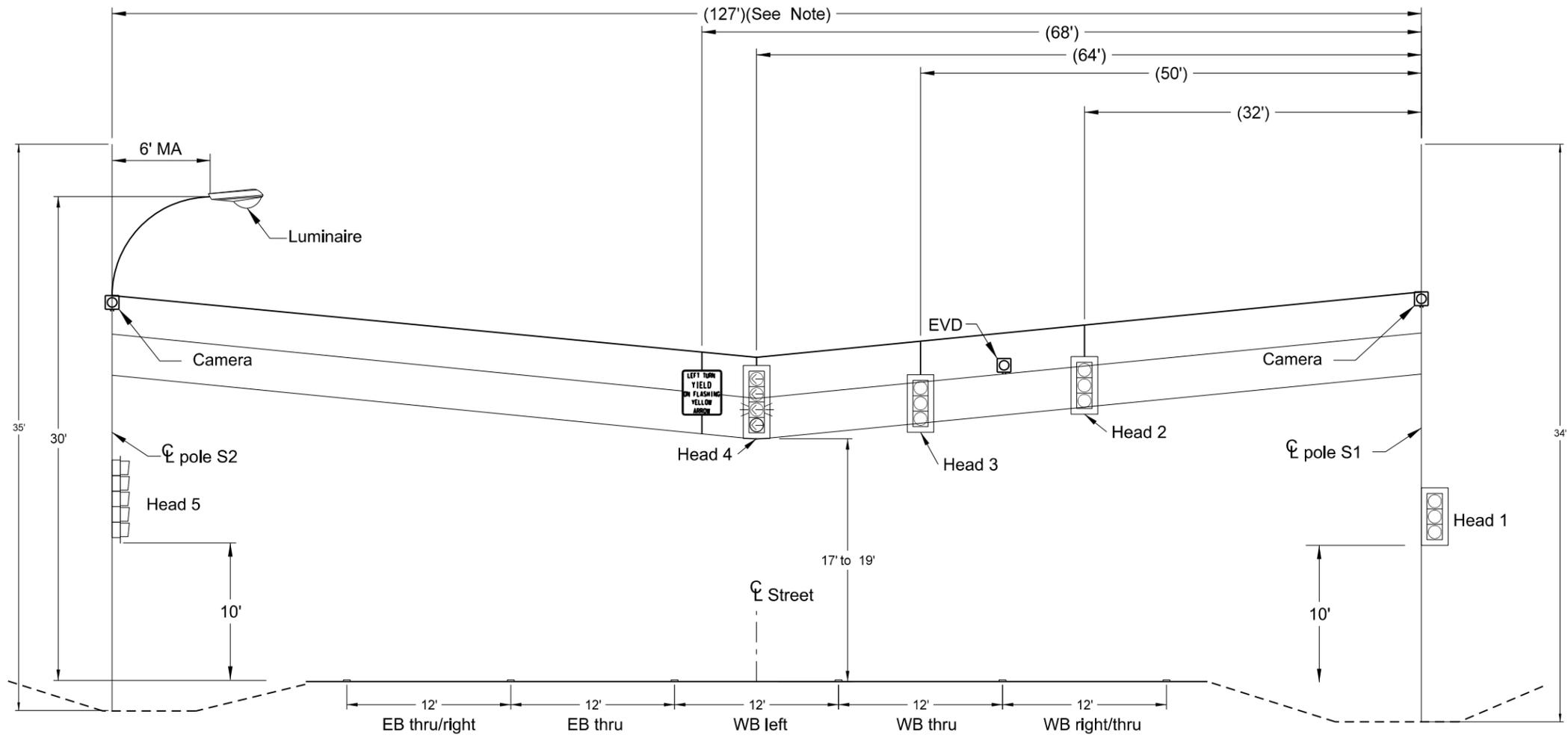
Light Standards						
No.	Station	Wattage	IES-Type	Mounting	Pole Ht.	Mast Arm
S2	1049+23.8-62.5' rt	135	III	Signal Standard Extension	30	6
S3	1050+35.8-63.7' rt	135	III	Signal Standard Extension	30	6
S4	1049+31.9-38.1' lt	135	III	Signal Standard Extension	30	6
S5	1073+10.6-29.4' lt	135	III	Signal Standard Extension	30	6
S7	1074+34.3-107.3' rt	135	III	Signal Standard Extension	30	6
S8	1074+55.1-74.5' rt	135	III	Signal Standard Extension	30	6
S9	1073+80.3-28.8' lt	135	III	Signal Standard Extension	30	6

MEMORIAL HWY. QUANTITIES (A)									
PULL BOX	CABLE TRENCH - TYPE I	2IN DIAMETER RIGID CONDUIT	UNDERGROUND CONDUCTOR NO6 - TYPE RHW	UNDERGROUND CONDUCTOR NO6 - TYPE THW	FEED POINT - TYPE I - PAD MOUNTED	TRAFFIC SIGNAL FEED POINT - PAD MOUNTED	LUMINAIRE EXTENSION 6FT MA 30FT MT HT	LED LUMINAIRE - 135 WATT	LIGHTING SYSTEM
EA	LF	LF	LF	LF	EA	EA	EA	EA	EA
2	651	642	1472	736	2	1	7	7	1

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(A) These items shall not be bid separately but shall be included in the bid price for the "LIGHTING SYSTEM".

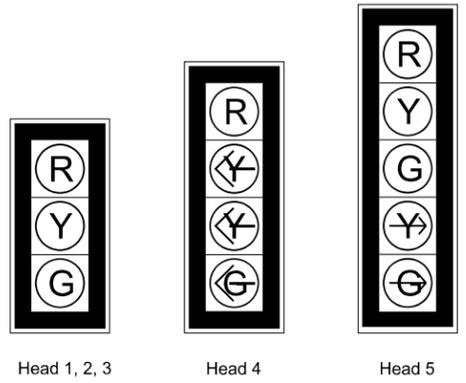
Lighting Quantities
Memorial Highway Signalization
Mandan, ND



Signal Standards: S1, S2 WB View
 Note: Dimensions in parenthesis () are normal to span wire.

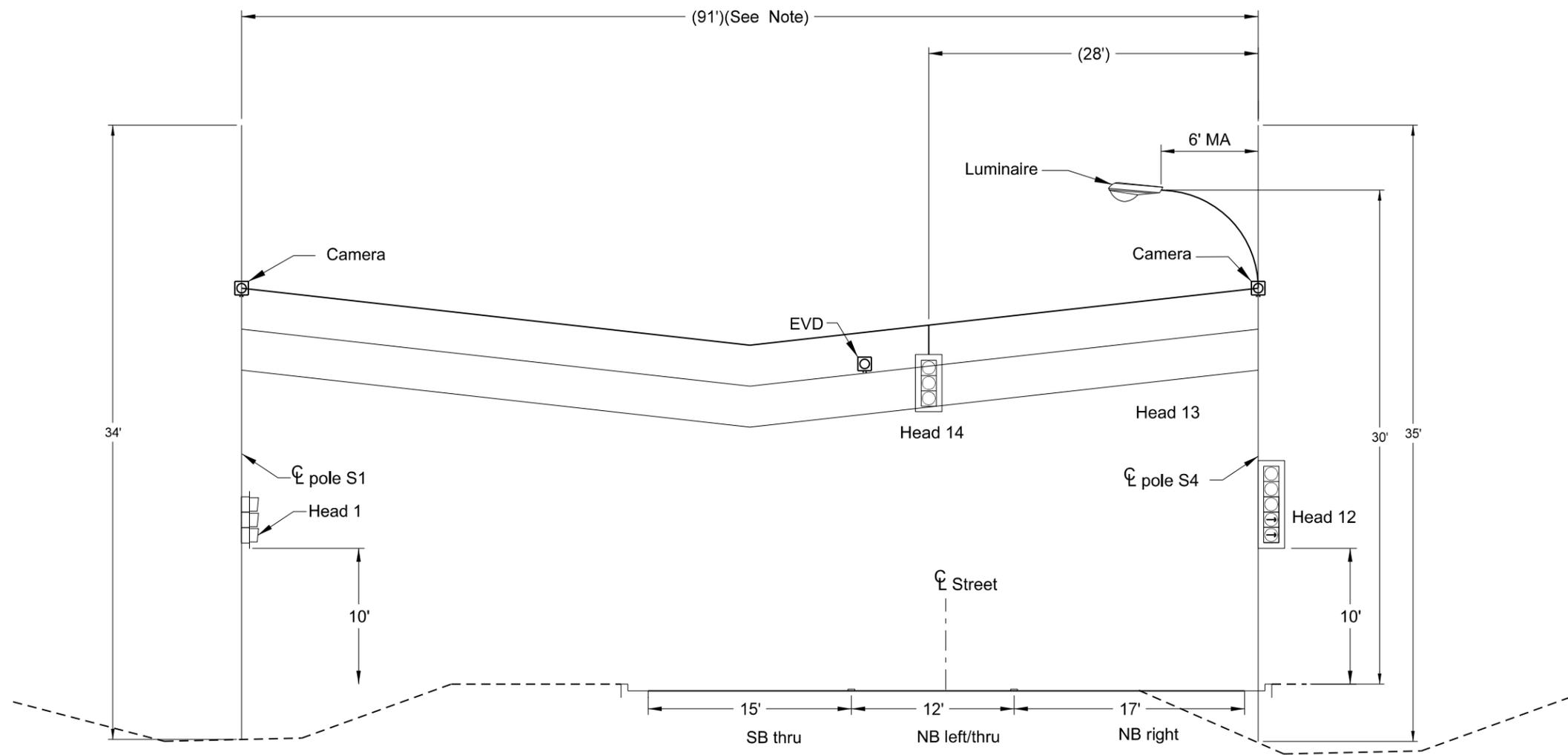
POLE DEPTH OF SETTING	
Length of Pole (ft)	Depth of Pole (ft)
35	6
40	6
45	6.5
50	7
55	7.5

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TRAFFIC SIGNAL POLE & LUMINAIRE SCHEDULE									
POLE	COORDINATES FOR CENTER OF POLE		LUMINAIRE (POLE MOUNT)						
	STATION	OFFSET	MODEL	ARM LENGTH	TYPE	VOLTS	OPTICS	TILT	
S1	1048+41.0	-33.4	COBRA HEAD	6'	LED	240 VAC	IES TYPE III	8 degree	
S2	1049+23.8	62.5	COBRA HEAD	6'	LED	240 VAC	IES TYPE III	8 degree	

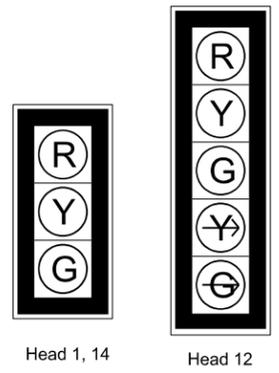
Traffic Signal Profiles
 40th Ave Intersection
 Memorial Highway Signalization
 Mandan, ND



Signal Standards S1, S4 NB View
 Note: Dimensions in parenthesis () are normal to span wire.

POLE DEPTH OF SETTING	
Length of Pole (ft)	Depth of Pole (ft)
35	6
40	6
45	6.5
50	7
55	7.5

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TRAFFIC SIGNAL POLE & LUMINAIRE SCHEDULE								
POLE	COORDINATES FOR CENTER OF POLE		LUMINAIRE (POLE MOUNT)					
	STATION	OFFSET	MODEL	ARM LENGTH	TYPE	VOLTS	OPTICS	TILT
S1	1048+41.1	-33.4	COBRA HEAD	6'	LED	240 VAC	IES TYPE III	8 degree
S4	1049+31.9	-38.1	COBRA HEAD	6'	LED	240 VAC	IES TYPE III	8 degree

Traffic Signal Profiles
 40th Ave Intersection
 Memorial Highway Signalization
 Mandan, ND

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	SU-1-094(170)919	150	15

40th Avenue and Memorial Highway *		
Materials	Quantity	Unit
No. 14 AWG 12 Conductor	783	LF
No. 14 AWG, 5 Conductor	2272	LF
No. 14 AWG, 7 Conductor	1359	LF
Emergency Vehicle Detection Cable	1064	LF
Video Coaxial & Video Power	883	LF
No. 6 THW Power Supply	15	LF
No.6 RWH Power Supply	3	LF
Combination Feed Point	1	EA
Signal Controller and Cabinet	1	EA
2" Diameter Rigid Conduit	15	LF
3" Diameter Rigid Conduit	16	LF
1/2" Stability wire - 7 strand steel	501	LF
1/2" Span wire - 7 strand steel	1002	LF
Double galv. 3/8" steel guy wire - 7 strand	210	LF
33 foot Class II wood poles	2	EA
32 foot Class II wood poles	2	EA
1- way 3 section head w/ 12 inch LED - MA Mounted	6	EA
1- way 3 section head w/ 12 inch LED - Post Mounted	2	EA
1-way 4 section head w/ 12 inch LED - MA Mounted	2	EA
1-way 5 section head w/ 12 inch LED - MA Mounted	2	EA
1-way 5 section head w/ 12 inch LED - Post Mounted	2	EA

* These items shall not be bid separately but shall be included in the bid price for "Traffic Signal System – Span Wire Mounted"

46th Avenue and Memorial Highway **		
Materials	Quantity	Unit
No. 14 AWG 20 Conductor	29	LF
No. 14 AWG 12 Conductor	621	LF
No. 14 AWG, 3 Conductor	52	LF
No. 14 AWG, 5 Conductor	366	LF
No. 14 AWG, 7 Conductor	214	LF
No. 16 AWG - 2 Conductor	336	LF
No. 16 AWG - 3 Conductor	348	LF
Emergency Vehicle Detection Cable	994	LF
Video Coaxial & Video Power	994	LF
Interconnect Cable	1331	LF
No. 6 THW Power Supply	15	LF
No.6 RWH Power Supply	3	LF
Combination Feed Point	1	EA
Signal Controller and Cabinet	1	EA
2" Diameter Rigid Conduit	1423	LF
3" Diameter Rigid Conduit	1102	LF
Pull Box	5	EA
Combo 55 foot MA SIG & Lt STD - Type A	1	EA
Combo 45 foot MA SIG & Lt STD - Type A	1	EA
Combo 30 foot MA SIG & Lt STD - Type A	2	EA
Post Mounted STD - Type V	2	EA
Pedestal Mounted STD - Type II	1	EA
1- way 3 section head w/ 12 inch LED - MA Mounted	5	EA
1- way 3 section head w/ 12 inch LED - Post Mounted	3	EA
1-way 4 section head w/ 12 inch LED - MA Mounted	3	EA
1-way 5 section head w/ 12 inch LED - MA Mounted	1	EA
1-way 5 section head w/ 12 inch LED - Post Mounted	1	EA
Accessible Pedestrian Signal Head (Countdown and Audible)	4	EA
Accessible Pedestrian Push Buttons and Signs	4	EA

**These items shall not be bid separately but shall be included in the bid price for "Traffic Signal System"

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Traffic Signal Quantities
40th and 46th Avenue Intersections
Memorial Highway Signalization
Mandan, ND