Wisconsin Department of Transportation

Division of Transportation Systems Development
Bureau of Project Development
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March 29, 2011

NOTICE TO ALL CONTRACTORS:

Proposal #31: **1198-00-61, WISC 2012 176**
Superior - Duluth
Belknap Street – Blatnik Bridge
USH 53
Douglas County

1198-00-75, WISC 2012 182
City of Superior, North 4th Street
IH 535 / STH 35 Interchange E
Ramp Intersection
USH 53
Douglas County

Letting of April 10, 2012

This is Addendum No. 1, which provides for the following:

Special Provisions

Added Special Provisions	
Article No.	Description
26	Ramp Closure Gates Hardwired 24-FT, Item SPV.0060.02;Ramp Closure Gates Hardwired 26-FT, Item SPV.0060.03; Ramp Closure Gates Hardwired 30-FT, Item SPV.0060.04; Ramp Closure Gate Arms Stockpile 24-FT, Item SPV.0060.05; Ramp Closure Gate Arms Stockpile 26-FT, Item SPV.0060.06; Ramp Closure Gate Arms Stockpile 30-FT, Item SPV.0060.07; Ramp Closure Gate Flashers Stockpile, Item SPV.0060.08.
27	Ground Rod, Item SPV. 0060.09

Schedule of Items

Revised Bid Item Quantities, Project 1198-00-61					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	0	620	1806
653.0135	Pull Boxes, Steel 24x36-INCH	EA	0	4	8
654.0105	Concrete Bases Type 5	EA	0	4	9
657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EA	0	4	8

Added Bid Item Quantities, Project 1198-00-61					
Bid Item	Item Description	Unit	Old Quantity	Added Quantity	Proposal Total
655.0305	Cable type UF 2-12 AWG Grounded	LF	0	755	755
SPV.0060.04	Ramp Closure Gates Hardwired 24-FT	EA	0	1	1
SPV.0060.05	Ramp Closure Gates Hardwired 26-FT	EA	0	2	2
SPV.0060.06	Ramp Closure Gates Hardwired 30-FT	EA	0	1	1
SPV.0060.07	Ramp Closure Gate Arms Stockpile 24-FT	EA	0	1	1
SPV.0060.08	Ramp Closure Gate Arms Stockpile 26-FT	EA	0	1	1
SPV.0060.09	Ramp Closure Gate Arms Stockpile 30-FT	EA	0	1	1
SPV.0060.10	Ramp Closure Gate Flashers Stockpile	EA	0	3	3
SPV.0060.11	Ground Rod	EA	0	4	4

Plan Sheets

Added Plan Sheets, Projects 1198-00-61	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
2A	Closure Gates General Notes
8A-D	Ramp Closure Gates Construction Details
12A,B	Ramp Closure Gates Plans
38A	Ramp Closure Gates Miscellaneous Quantities

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Richard R. Vela, P.E.

Proposal Development Engineer
Proposal Management Section

ADDENDUM NO. 1

1198-00-61, 1198-00-75

March 29, 2012

Special Provisions

26. Ramp Closure Gates Hardwired 24-FT, Item SPV.0060.02; Ramp Closure Gates Hardwired 26-FT, Item SPV.0060.03; Ramp Closure Gates Hardwired 30-FT, Item SPV.0060.04; Ramp Closure Gate Arms Stockpile 24-FT, Item SPV.0060.05; Ramp Closure Gate Arms Stockpile 26-FT, Item SPV.0060.06; Ramp Closure Gate Arms Stockpile 30-FT, Item SPV.0060.07; Ramp Closure Gate Flashers Stockpile, Item SPV.0060.08.

A Description

(1) This special provision describes providing freeway on-ramp closure gates on type 5 steel luminaire poles, and furnishing and delivering spare gate arms and flashers.

B Materials

B.1 General

(1) Provide five user manuals and a listing of vendors and contact information for each manufactured component including flasher electrical components.

(2) The engineer may allow alternate components equal to the manufactured components this special provision specifies. The engineer may require modification of the plan details to accommodate alternates. If the contractor provides an alternate arm and/or mounting adaptor, the engineer will reject that alternate if the contractor cannot demonstrate, to the engineer's satisfaction, that the department can easily remove and replace the arms.

B.2 Components

(1) Furnish type 5 steel poles designed to carry twin 15-foot luminaire arms and conforming to section 657 of the standard specifications and with dimensions for acceptable installation of the ramp gate hardware as shown on the detail.

(2) Furnish galvanized steel nuts and galvanized bolts conforming to ASTM A307 except where designated as high strength (HS) conforming to ASTM A 325.

(3) Furnish grade A36 steel for the gate supports, gate pivot assembly, and associated hardware that is all galvanized after fabrication by either a mechanical or hot-dip process. Grind welded connections, rough edges, and burrs smooth before galvanizing to ensure a finished appearance. Ensure that the galvanized coating conforms to ASTM A 153.

(4) Provide aluminum/fiberglass gate arms of the nominal length the bid item indicates and conforming to plan dimensions. Cover gate arms on two sides with alternating red and white shop-applied type H reflective sheeting conforming to Section 637.2.2.2 of the Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, 2009 Edition. Also provide a shear pin base that is the manufacturer's "permanent pivot" style. Obtain components from:

B&B Roadway
15191 Hwy 243
Russellville, AL 35654
Tel: (888) 560-2060

Gate arm: model MU605

(5) Furnish a worm gear winch with a single line vertical lift capacity of 2000 lbs. Ensure that the winch has hardened steel gears, a handgrip, permanently lubricated bearings, a reinforced arc-welded reel assembly, and mounting plate. Ensure that the winch can be mounted to the winch mount plate shown on the construction details and the handgrip can be operated without conflict with the pole or ramp gate assembly.

(6) Furnish hardwire power system and connections conforming to the following:

1. Cabinet

   Furnish cabinet assemblies, power wire terminal strips, and power supplies for the on-ramp closure gate systems.

   The cabinet shall be the following dimensions: 9-inches wide, 15-inches high, and 5-inches deep.

   Minimum wall thickness of the aluminum castings shall be 3/16-inch.

   Cabinet body shall have a cast rain hood over the top of the door opening.

   Door shall be manufactured to accept a Corbin No. 2 lock.

   Hinges shall consist of 3/6-inch diameter pins in cast hinge bosses that allow door to swing no less than 180º when open.

   Cabinet shall be capable of being field prepared for top, bottom, or rear mounting and wire entrance holes.

   Set screws shall be stainless steel.

   Assembly shall be water resistant by the door flange in full contact with and compressing a neoprene gasket held by an adhesive to a groove cast into the cabinet body.

   The cabinets shall consist of a cabinet body, door, and latch cast from aluminum alloy 319 or approved equivalent, and a Corbin No. 2 lock. The cast shall be free of voids, pits, dents, molding sand, and excessive foundry grinding marks. All radii shall be smooth and intact. Exterior and interior surfaces shall be smooth and cosmetically acceptable, free of molding fins, cracks, and other blemishes.

   The aluminum shall meet the following minimum requirements:

   - Yield Strength – 18 ksi
   - Tensile Strength – 27 ksi
   - Brinell Hardness – 70
   - Elongation (% in 2 inches) – 2

   The assembly shall have an alodine conversion coating to provide corrosion resistance and a proper base for paint adhesion.

   Furnish a stainless steel or anodized steel mounting adapter plate to mount the cabinet to a pole with stainless steel banding straps.

   Furnish 2-inch rigid metallic conduit and LB condulet meeting all requirements of section 652 of the standard specifications.

2. Power Converter
   Furnish the cabinet with a 120 VAC to 12 VDC power converter.

   Furnish the cabinet with a 10 position terminal block for the 12 VDC power distribution. Power wire terminal strips 10 position feed-through terminal blocks UL-recognized for No. 22 AWG wire through No. 16 AWG wire and UL-rated for 15 amps. The terminals shall be tin-plated brass with brass clips and clamps.

(7) Furnish gate flasher assemblies conforming to the following:

1. A 2-conductor connector, rated 12 volts at 5 amps minimum.

2. A 2-amp weather resistant in-line fuse and fuse holder.

3. Wiring harness made from 6-conductor 14 AWG stranded insulated control cable.

4. A 12-V flasher controller, capable of providing LED flashers with 5% to 100% duty cycle at a one-second pulse repetition rate.

5. A 4-conductor male/female electrical connector pair, 10 amp capacity for each connection, weather resistant, and mounted to allow rapid gate arm replacement.

6. A 5-amp mercury switch with less than 3 ohms “on” resistance and a 20- to 30-degree activation angle. Mount the switch on the gate arm to activate the flashers when the gate arm is lowered more than 30 degrees from vertical.

7. Furnish red LED flashers meeting the requirements of the MUTCD and/or AREMA standards for hue and brightness.

Power consumption	0.45 amp @ 10.5 V
Life expectancy	100,000 hrs
Directionality	0-degree cone orthogonal to face of flasher
Compliance temperature	-40° C to +70° C

C Construction

C.1 Ramp Closure Gates

(1) Under the Ramp Closure Gates bid items, provide ramp closure gate at the locations the plans show. Apply corrosion protection material from the department's approved products list to the interface between the aluminum base and steel pole. The engineer may direct adjustment of the gate arm assembly to ensure the correct vertical and angular orientation of the completed closure gate.

(2) Install cabinet with power supply, flasher controller, and other components. Connect the 120 VAC to 12 VDC power supply to the circuit breaker in the breaker disconnect box. Connect the 120 VAC to 12 VDC power supply to the 10-position terminal block and connect the 12 VDC components to the terminal block.

(3) Connect the 12 VDC terminal strip to the wiring harness through the female side of a 2-terminal polarized electrical connector. Connect male side of this connector to the flasher controller and the female side of a weatherproof polarized 4-conductor electrical connector.

(4) Attach the male side of the 4 conductor electrical connector, mercury switch, wiring harness and the three LED flasher units to the portion of the flasher assembly mounted on the breakaway portion of the gate arm. Adjust mercury switch so that as the gate arm is lowered to a maximum of 30 degrees from the vertical, the gate flasher assembly is energized, and the LEDs begin to flash. Ensure that when the gate arm is raised to a minimum of 10 degrees from vertical, the mercury switches the gate flasher assembly off.

C.2 Furnishing Gate Arms

(1) Under the Ramp Closure Gate Arms Stockpile bid items, furnish and deliver spare arms of the nominal length the bid item indicates conforming to B.2(4) of this special provision. Deliver spare gate arms to an address provided by: Keith Armstrong (715) 374-2575

C.3 Furnishing Flashers

(1) Under the Ramp Closure Gate Flasher Stockpile bid item, furnish and deliver spare gate flasher assemblies conforming to B.2(7) of this special provision. Deliver spare gate arms to an address provided by: Keith Armstrong (715) 374-2575

D Measurement

(1) The department will measure the Ramp Closure Gates Hardwired (Size) as each individual installation acceptably completed.

(2) The department will measure the Ramp Closure Gate Arms Stockpile (Size) and Ramp Closure Gate Flashers Stockpile as each individual unit, acceptably furnished and delivered.

E Payment

(1) The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.02	Ramp Closure Gates Hardwired 24-FT	Each
SPV.0060.03	Ramp Closure Gates Hardwired 26-FT	Each
SPV.0060.04	Ramp Closure Gates Hardwired 30-FT	Each
SPV.0060.05	Ramp Closure Gate Arms Stockpile 24-FT	Each
SPV.0060.06	Ramp Closure Gate Arms Stockpile 26-FT	Each
SPV.0060.07	Ramp Closure Gate Arms Stockpile 30-FT	Each
SPV.0060.08	Ramp Closure Gate Flashers Stockpile	Each

(2) Payment for the Ramp Closure Gate Hardwired is full compensation for providing ramp closure gates including support poles, gate arm assemblies, guides and collars, gate arms, cabinets, wiring and power converters, and gate flashers.

(3) Payment for the Ramp Closure Gate Arms Stockpile is full compensation for furnishing and delivering ramp closure gate arms.

(4) Payment for the Ramp Closure Gate Flashers Stockpile is full compensation for furnishing and delivering ramp closure gate flasher assemblies.

27. Ground Rod, Item SPV.0060.09

A Description

This special provision describes installing a ground rod and ground wire.

B Materials

Ground rod shall be copper clad steel with cladding 13 mils thick. The minimum diameter is 5/8-inch and the minimum length is eight feet. Ground wire shall be AWG # 6 bare, solid copper.

C Construction

Use exothermic welding to connect the ground wire to the rod. Install the rod vertically, or as close to vertical as conditions permit. Select locations with moist soil, if available. Place the rod at least six feet from all other ground rods.

D Measurement
The department will measure Ground Rod by the unit, acceptably installed.

E Payment
The department will pay for the measured quantity at the contract unit price each under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.09	Ground Rod	Each

Payment is full compensation for installation of the ground rod and ground wire; welding and connections at both ends of the ground wire; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Schedule of Items
Attached, dated March 29, 2012, are the revised Schedule of Items Pages 10, 11, 12, 15 and 16.

Plan Sheets
The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: None.
Added: 2A, 8A-D, 12A-B and 38A.

END OF ADDENDUM

FTMS STANDARD ABBREVIATIONS

PB ——— PULL BOX
RG ——— RAMP GATE
CB ——— CONTROL CABINET

LEGEND

PROPOSED

RAMP CLOSURE GATE (ARM LENGTH) — — — — — XX-FOOT
CONDUIT — — — — — — — — — — — — — — — —
24X36-INCH PULL BOX — — — — — — — — — —
TRAFFIC SIGNAL PULL BOX — — — — — — — —
TRAFFIC SIGNAL CONTROL CABINET — — — — —

RAMP CLOSURE GATE GENERAL NOTES

THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.

BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR FIELD LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR RAMP CLOSURE GATE CONSTRUCTION ARE TO BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER AND SEED, AND MULCH. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION WILL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS. NO PAYMENT WILL BE MADE FOR RESTORING AREAS DISTURBED FOR FTMS CONSTRUCTION OPERATIONS.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

BE ADVISED THAT DUE TO RAMP, LANE, AND SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.

CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.

ALL LOOP DETECTORS STATIONED TO CENTER OF LEADING EDGE AS APPROACHED BY NORMAL VEHICLE PATH.

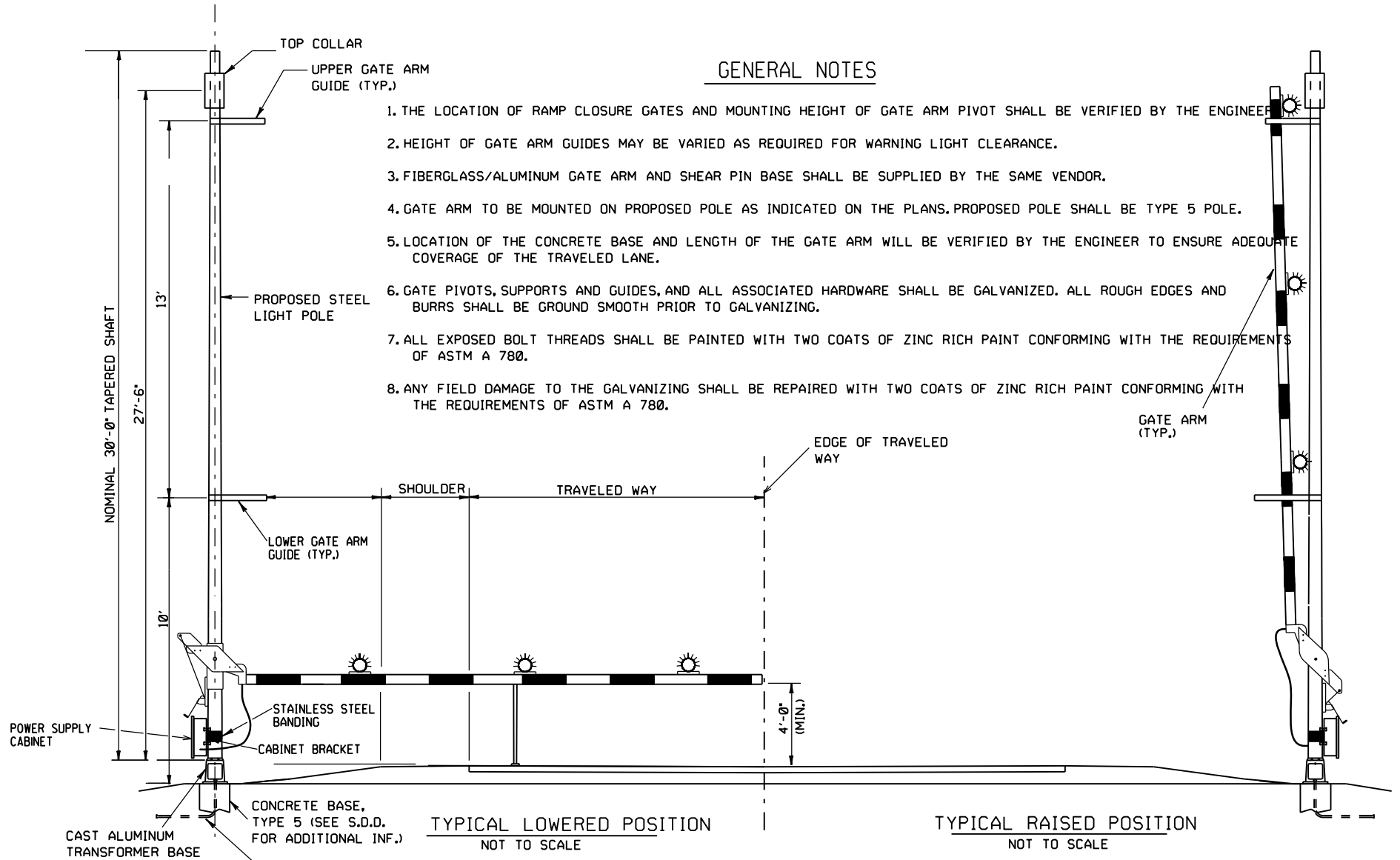
HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.

VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

Addendum No. 1
ID 1198-00-61
New Sheet 2A
March 29, 2012

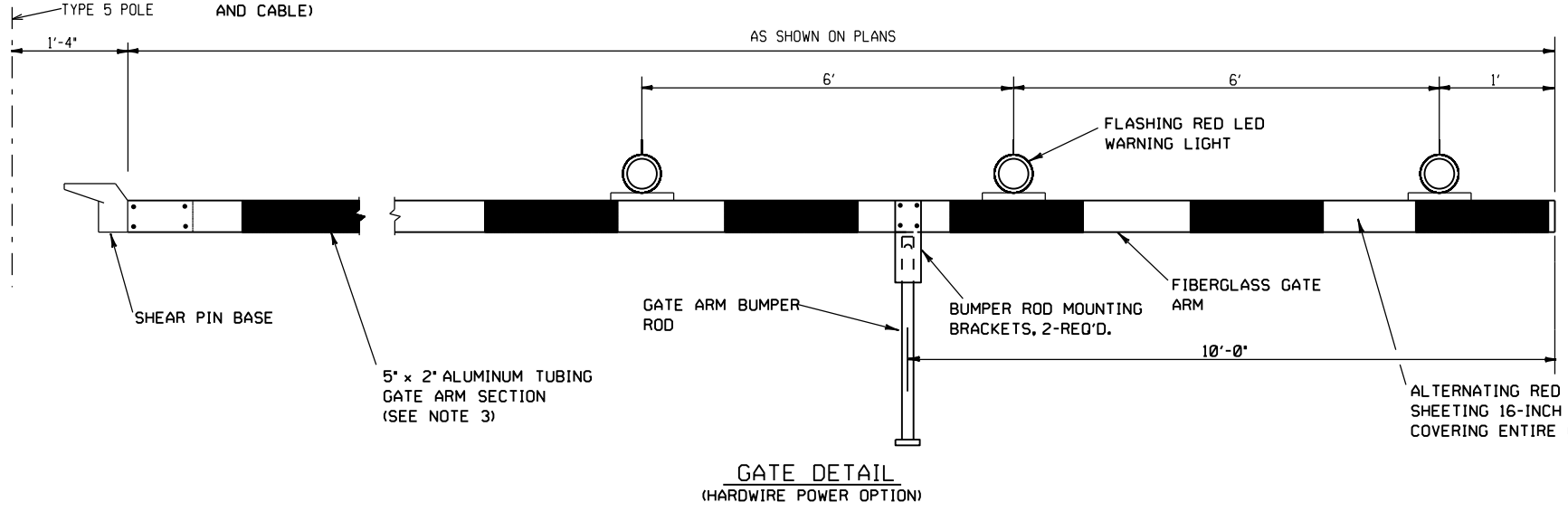
GENERAL NOTES

1. THE LOCATION OF RAMP CLOSURE GATES AND MOUNTING HEIGHT OF GATE ARM PIVOT SHALL BE VERIFIED BY THE ENGINEER.
2. HEIGHT OF GATE ARM GUIDES MAY BE VARIED AS REQUIRED FOR WARNING LIGHT CLEARANCE.
3. FIBERGLASS/ALUMINUM GATE ARM AND SHEAR PIN BASE SHALL BE SUPPLIED BY THE SAME VENDOR.
4. GATE ARM TO BE MOUNTED ON PROPOSED POLE AS INDICATED ON THE PLANS. PROPOSED POLE SHALL BE TYPE 5 POLE.
5. LOCATION OF THE CONCRETE BASE AND LENGTH OF THE GATE ARM WILL BE VERIFIED BY THE ENGINEER TO ENSURE ADEQUATE COVERAGE OF THE TRAVELED LANE.
6. GATE PIVOTS, SUPPORTS AND GUIDES, AND ALL ASSOCIATED HARDWARE SHALL BE GALVANIZED. ALL ROUGH EDGES AND BURRS SHALL BE GROUND SMOOTH PRIOR TO GALVANIZING.
7. ALL EXPOSED BOLT THREADS SHALL BE PAINTED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.
8. ANY FIELD DAMAGE TO THE GALVANIZING SHALL BE REPAIRED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.

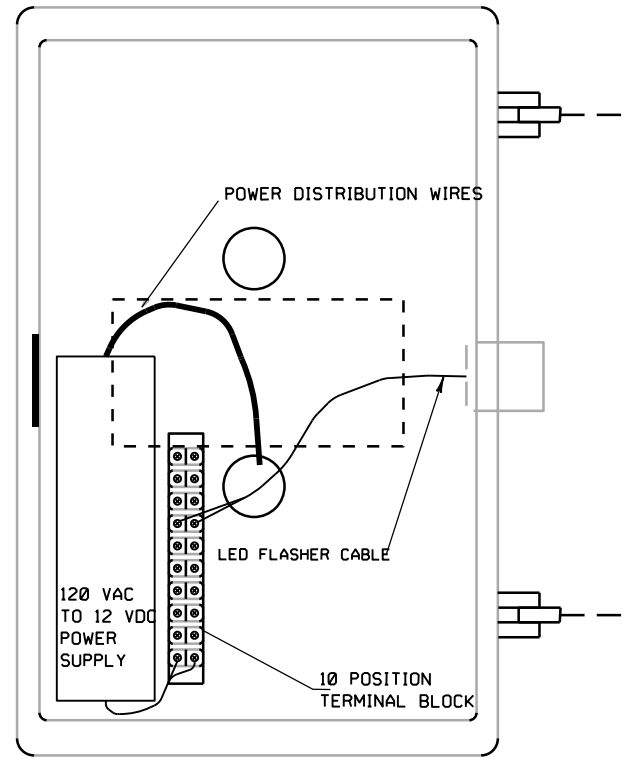


TYPICAL LOWERED POSITION
NOT TO SCALE

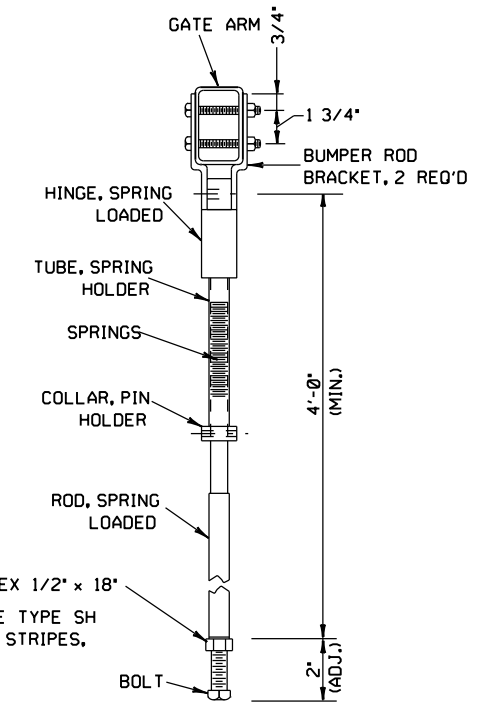
TYPICAL RAISED POSITION
NOT TO SCALE



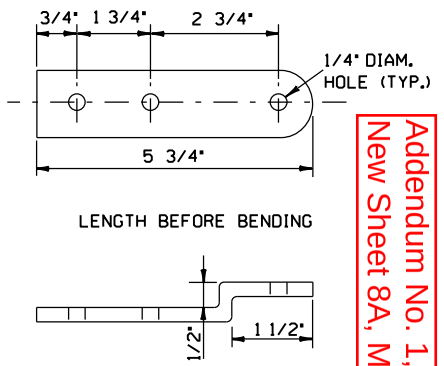
GATE DETAIL
(HARDWIRE POWER OPTION)



POWER SUPPLY CABINET



GATE ARM BUMPER ROD DETAIL



BUMPER ROD MOUNTING BRACKET DETAIL

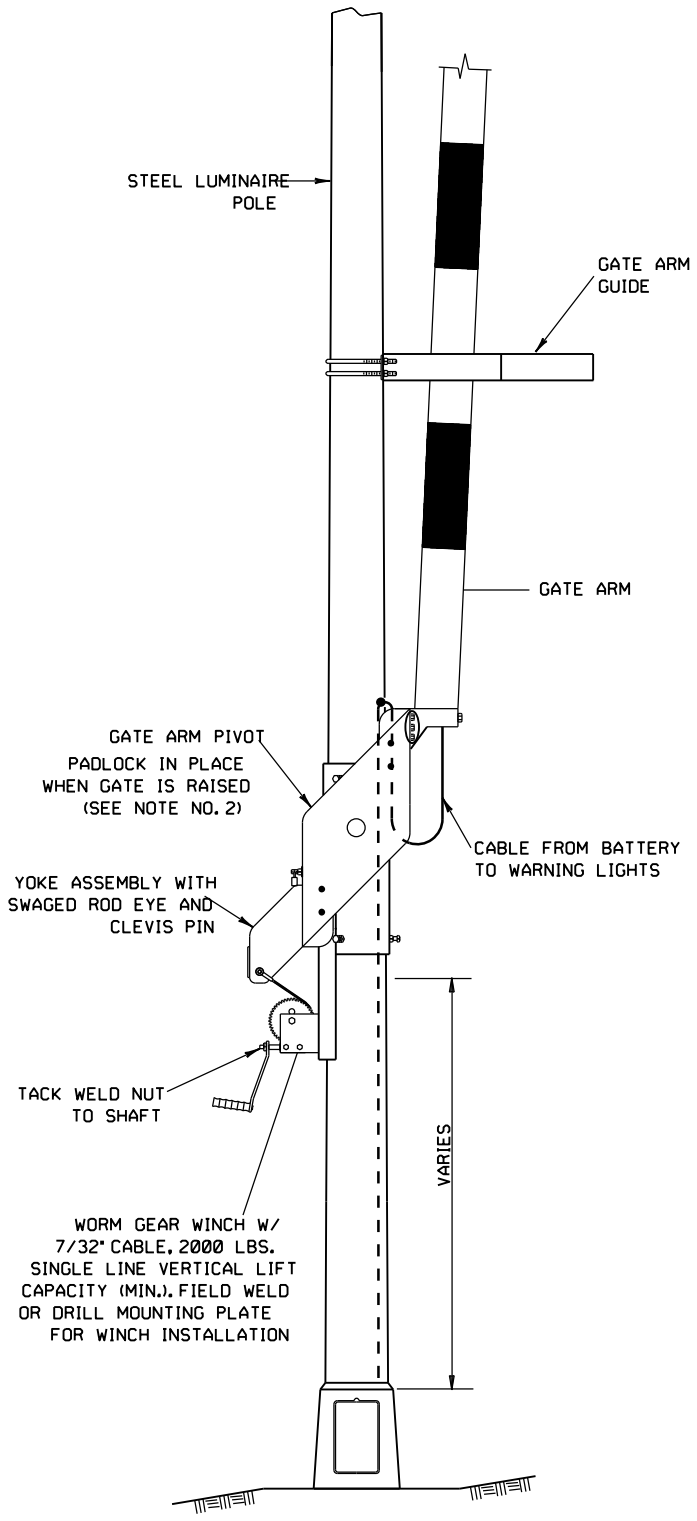
Addendum No. 1, ID 1198-00-61
New Sheet 8A, March 29, 2012

PROJECT NO:1198-00-61	HWY:US 53	COUNTY:DOUGLAS	RAMP CLOSURE GATES CONSTRUCTION DETAILS	SHEET 8A	E

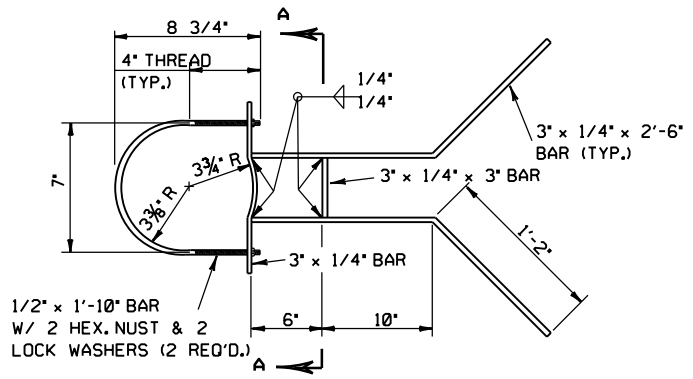
2

GENERAL NOTES

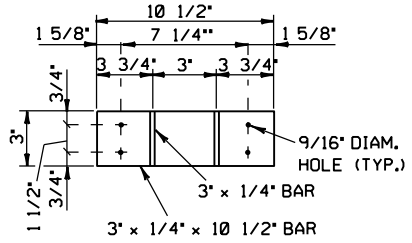
1. WHEN THE GATE IS FULLY RAISED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE OUTSIDE OF THE REAR CHANNEL AND PADLOCKED IN PLACE.
2. WHEN THE GATE IS FULLY LOWERED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE INSIDE OF THE REAR CHANNEL AND PADLOCKED INTO PLACE.
3. ANTI-SEIZE LUBRICATING MATERIAL SHALL BE USED ON ALL BOLT THREADS BEFORE INSTALLATION.
4. ALL BOLTS SHALL CONFORM TO ASTM A 307, GRADE A, UNLESS DESIGNATED AS HS (HIGH STRENGTH), WHICH SHALL CONFORM TO ASTM A 325.



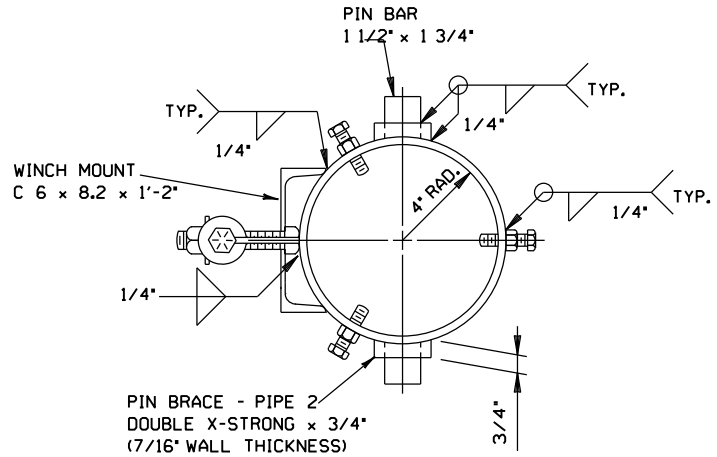
GATE PIVOT ASSEMBLY



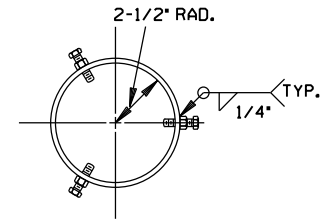
GATE ARM GUIDE DETAIL



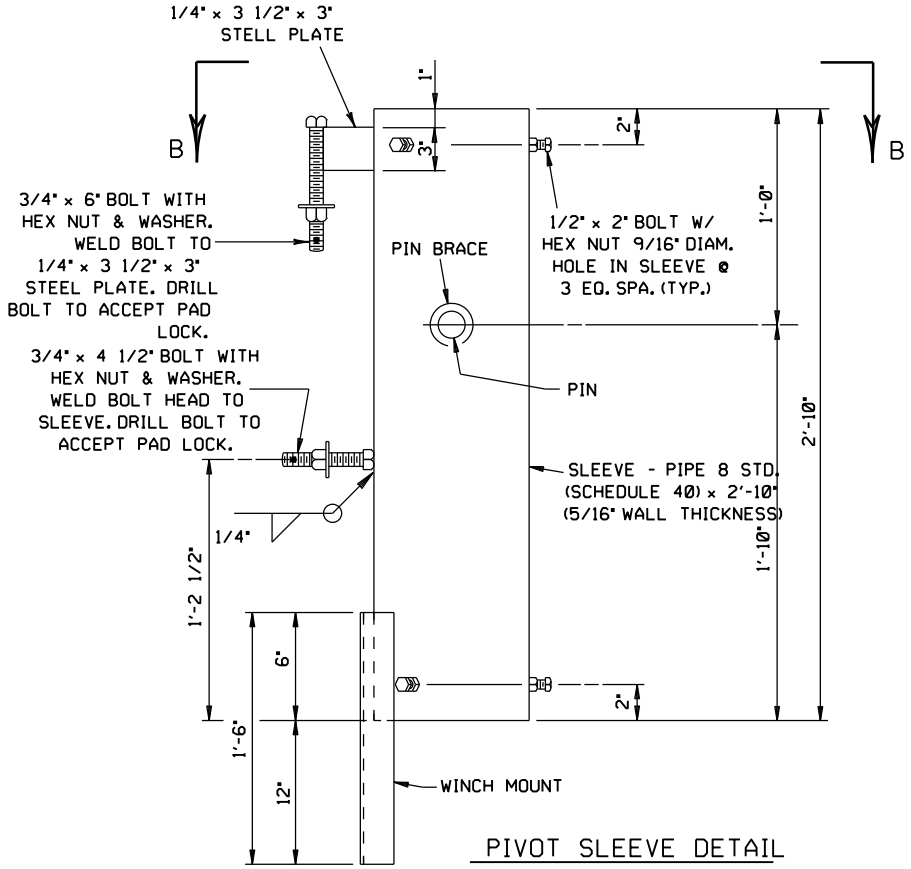
SECTION A-A
U-BOLTS NOT SHOWN



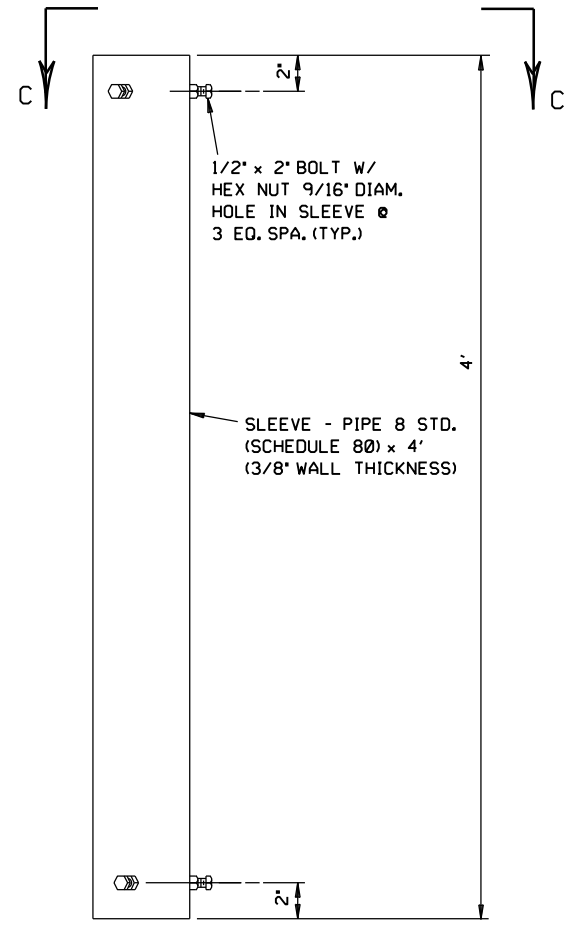
SECTION B-B



SECTION C-C



PIVOT SLEEVE DETAIL

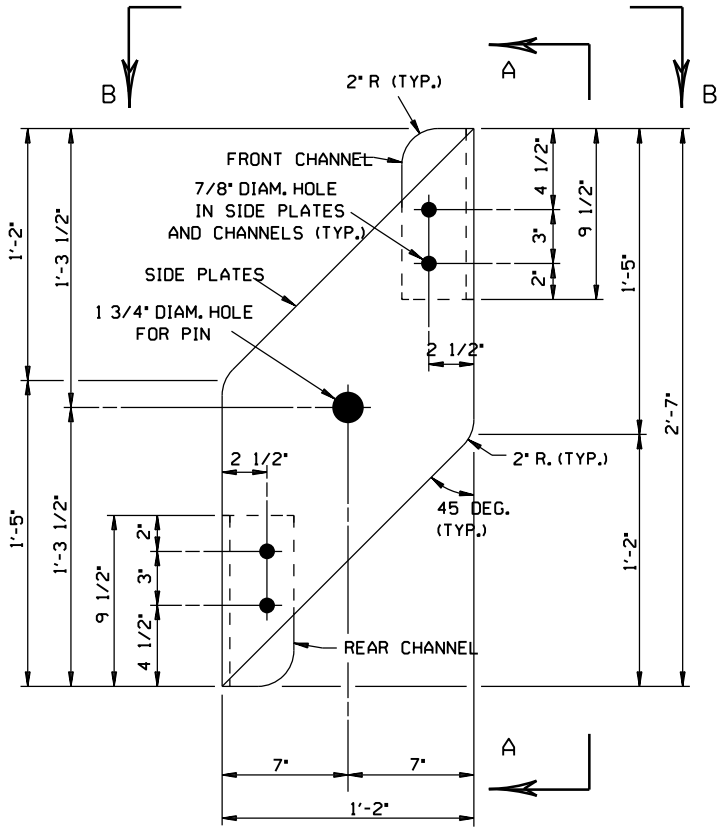


TOP COLLAR

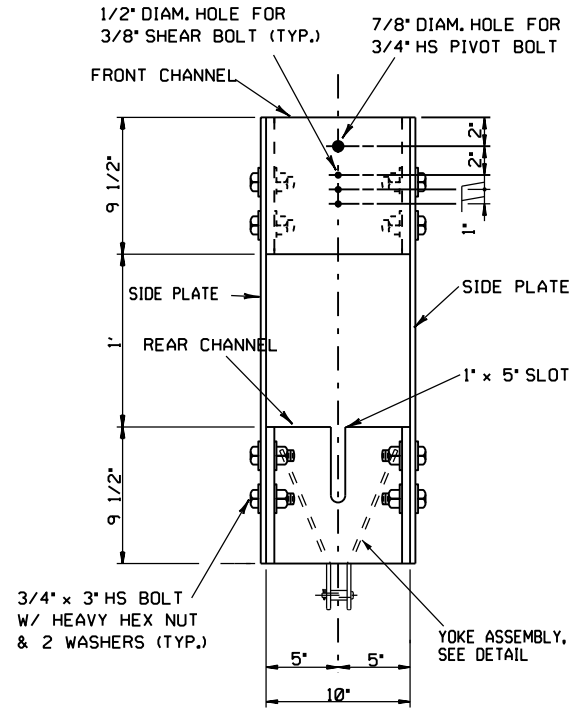
Addendum No. 1
ID 1198-00-61
New Sheet 8B
March 29, 2012

CLOGATE20.DGN

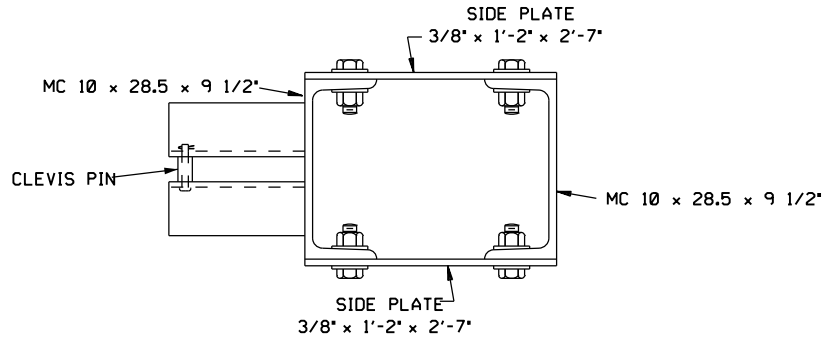
PROJECT NO:1198-00-61	HWY:US 53	COUNTY:DOUGLAS	RAMP CLOSURE GATES CONSTRUCTION DETAILS	SHEET 8B	E



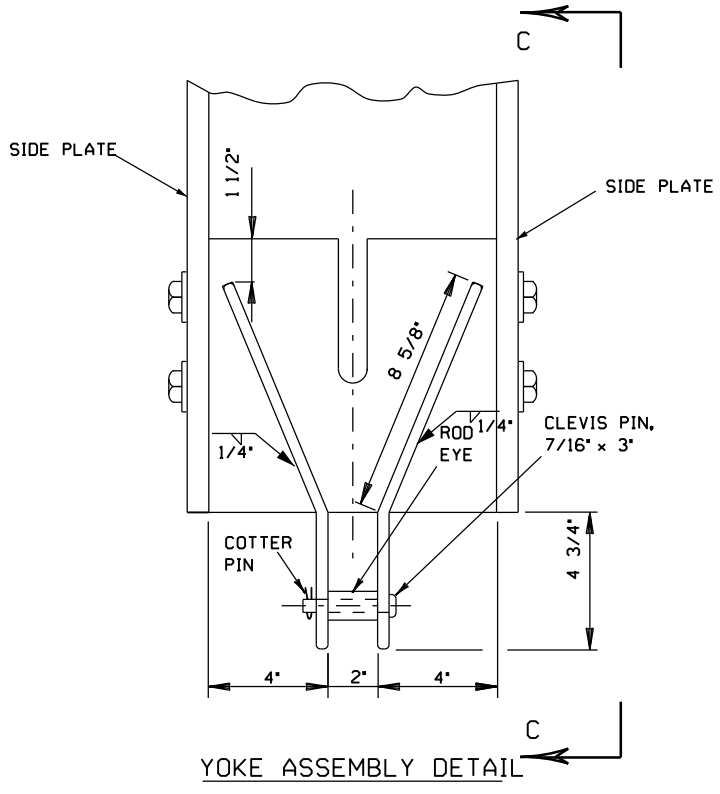
SIDE PLATE DETAIL



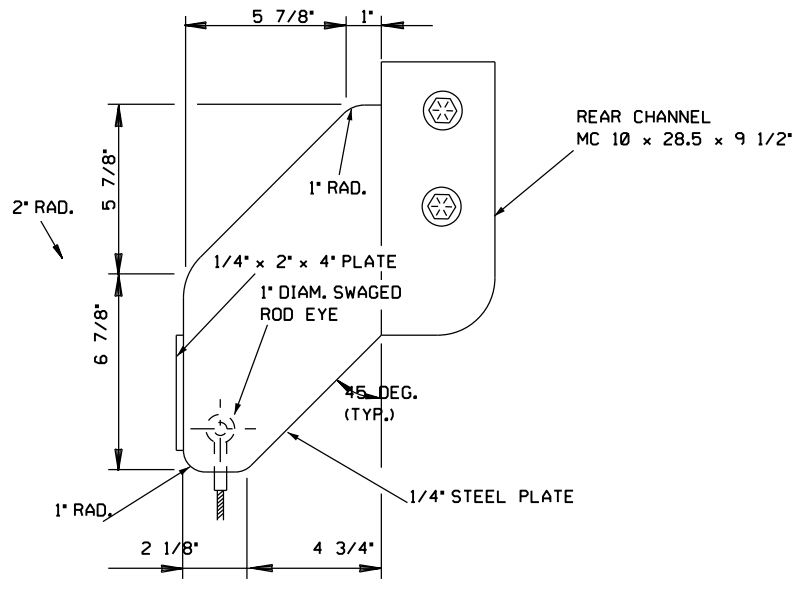
SECTION A-A



SECTION B-B



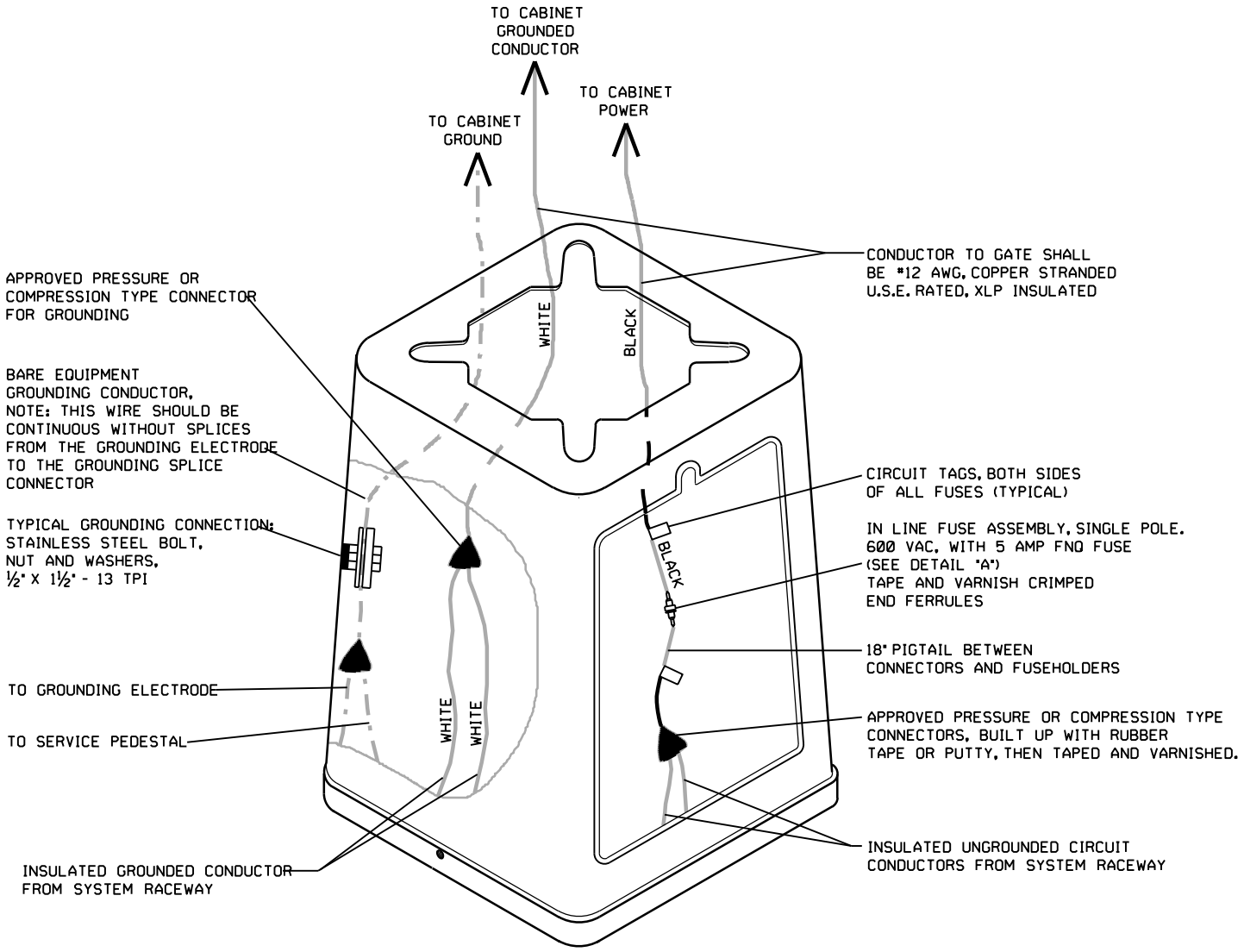
YOKE ASSEMBLY DETAIL

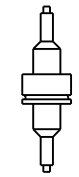


SECTION C-C

Addendum No. 1
ID 1198-00-61
New Sheet 8C
March 29, 2012

PROJECT NO:1198-00-61	HWY:US 53	COUNTY:DOUGLAS	RAMP CLOSURE GATES CONSTRUCTION DETAILS	SHEET 8C	E





DETAIL "A"
SINGLE POLE

Addendum No. 1
ID 1198-00-61
New Sheet 8D
March 29, 2012

PROJECT NO:1198-00-61	HWY:US 53	COUNTY:DOUGLAS	RAMP CLOSURE GATES CONSTRUCTION DETAILS	SHEET 8D	E

2

2

N

36'

1+00

2+00

3+00

4+00

5+00

6+00

(1) 2-INCH NONMETALLIC CONDUIT WITH
(2) 2/C NO. 12 GROUNDED CABLES

(1) 2-INCH NONMETALLIC CONDUIT WITH
(3) 2/C NO. 12 GROUNDED CABLES

6-FEET

RG53250

30-FOOT

PB53250

CB1

PB1

PB2

26'

PB3

(1) 2-INCH NONMETALLIC CONDUIT WITH
(1) 2/C NO. 12 GROUNDED CABLE

SLOPE INTERCEPT

(1) 2-INCH NONMETALLIC CONDUIT WITH
(2) 2/C NO. 12 GROUNDED CABLES

8-FEET

36-FOOT

RG53165

(1) 2-INCH NONMETALLIC CONDUIT WITH
(1) 2/C NO. 12 GROUNDED CABLE

15'

PB53135

RG53135

(1) 2-INCH NONMETALLIC CONDUIT WITH
(1) 2/C NO. 12 GROUNDED CABLE

145 FT TO
STOP BAR

290 FT TO
STOP BAR

8-FEET

26-FOOT

18+00

17+00

16+00

15+00

14+00

13+00

12+00

PB8

SLOPE INTERCEPT

NOTE:
ALL CONDUIT AND CABLING IS IN ADDITION TO THAT TO BE INSTALLED FOR TRAFFIC SIGNAL CONSTRUCTION AND IS INTENDED TO BE CONSTRUCTED AT SAME TIME AS TRAFFIC SIGNAL.

Addendum No. 1
ID 1198-00-61
New Sheet 12A
March 29, 2012

PROJECT NO: 1198-00-61	HWY: US 53	COUNTY: DOUGLAS	RAMP CLOSURE GATES PLANS	SHEET 12A	E

FILE NAME : \\milw00\ingrproj\50669\11980061_blatnik\cds\05_blat_gates.dgn PLOT DATE : 3/16/2012 PLOT BY : pkutz PLOT NAME : PLOT SCALE : 40:1

2

2

N

(1) 2-INCH NONMETALLIC CONDUIT WITH
(1) 2/C NO. 12 GROUNDED CABLE

PBHA10

EXMBHA05

EXCBHA05

HAMMOND AVE.

(1) 2-INCH NONMETALLIC CONDUIT WITH
(1) 2/C NO. 12 GROUNDED CABLE

NOTE:
THIS PLAN SHEET
NOT TO SCALE

EXISTING DYNAMIC
MESSAGE SIGN

PBHA05

24-FOOT

RGHA05

6'

N. 5TH ST.

Addendum No. 1
ID 1198-00-61
New Sheet 12B
March 29, 2012

PROJECT NO: 1198-00-61	HWY: US 53	COUNTY: DOUGLAS	RAMP CLOSURE GATES PLANS	SHEET 12B	E

FILE NAME : \\milw00\ingrproj\50669\11980061_blatnik\cds\10_blat_gates.dgn PLOT DATE : 3/16/2012 PLOT BY : pkutz PLOT NAME : PLOT SCALE : 40:1

3

RAMP CLOSURE GATE ITEMS

CATEGORY			0010	0010	0010	0010	0010	0010 GATES	0010	0010	0010	0010	0010	0010	0010
ROADWAY	ITEM ID	LOCATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	653.0135 PULL BOXES STEEL 24X36-INCH EACH	654.0105 CONCRETE BASES TYPE 5 EACH	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.	657.0255 TRANSFORMER BREAKAWAY BASES 11 1/2-INCH BOLT CIRCLE EACH	SPV.0060.02 RAMP CLOSURE GATES HARDWIRED 24-FT EACH	SPV.0060.03 RAMP CLOSURE HARDWIRED 26-FT EACH	SPV.0060.04 RAMP G CLOSURE GATES HARDWIRED 30-FT EACH	SPV.0060.05 RAMP CLOSURE ATE ARMS STOCKPILE 24-FT EACH	SPV.0060.06 RAMP CLOSURE GATE ARMS STOCKPILE 26-FT EACH	SPV.0060.07 RAMP G CLOSURE GATE ARMS STOCKPILE 30-FT EACH	SPV.0060.08 RAMP CLOSURE ATE FLASHERS STOCKPILE EACH	SPV.0060.09 GROUND ROD EACH
US 53	RG53250	W-N RAMP	--	--	1	--	1	--	--	1	--	--	--	--	1
	RG53135	E-N RAMP	--	--	1	--	1	--	1	--	--	--	--	--	1
	RGHA05	HAMMOND AVE.	--	--	1	--	1	1	--	--	--	--	--	--	1
	RG53165	E-N RAMP	--	--	1	--	1	--	1	--	--	--	--	--	1
	UNDISTRIBUTED		--	--	--	--	--	--	--	--	1	1	1	3	--
	CB1 - PB1		30	--	--	90	--	--	--	--	--	--	--	--	--
	PB1 - PB2		75	--	--	150	--	--	--	--	--	--	--	--	--
	PB1 - PB53250		55	1	--	55	--	--	--	--	--	--	--	--	--
	PB53250 - RG53250		10	--	--	10	--	--	--	--	--	--	--	--	--
	PB2 - RG53165		10	--	--	10	--	--	--	--	--	--	--	--	--
	PB2 -PB3		70	--	--	70	--	--	--	--	--	--	--	--	--
	PB3 - PB53135		235	1	--	235	--	--	--	--	--	--	--	--	--
	PB53135 - RG53135		10	--	--	10	--	--	--	--	--	--	--	--	--
	EXMBHA05- PBHA10		10	1	--	10	--	--	--	--	--	--	--	--	--
	PBHA10 - PBHA05		105	1	--	105	--	--	--	--	--	--	--	--	--
	PBHA05 - RGHA05		10	--	--	10	--	--	--	--	--	--	--	--	--
TOTALS			620	4	4	755	4	1	2	1	1	1	1	3	4

Addendum No. 1
ID 1198-00-61
New Sheet 38A
March 29, 2012

CONTRACT: 20120410031
PROJECT(S): 1198-00-61, 1198-00-75
FEDERAL ID(S): WISC 2012176, WISC 2012182

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
0970	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT	1,138.000 LF		.		.
0980	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE	11,460.000 LF		.		.
0990	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 02. 1198-00-75	LUMP	LUMP			.
1000	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 1198-00-61	LUMP	LUMP			.
1010	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 02. 1198-00-75	LUMP	LUMP			.
1020	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH	54.000 LF		.		.
1030	652.0220 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH	55.000 LF		.		.
1040	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	1,806.000 LF		.		.
1050	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	415.000 LF		.		.
1060	652.0605 CONDUIT SPECIAL 2-INCH	148.000 LF		.		.

CONTRACT: 20120410031
PROJECT(S): 1198-00-61, 1198-00-75
FEDERAL ID(S): WISC 2012176, WISC 2012182

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1070	652.0615 CONDUIT SPECIAL 3-INCH	438.000 LF		.		.
1080	652.0800 CONDUIT LOOP DETECTOR	772.000 LF		.		.
1090	652.0900 LOOP DETECTOR SLOTS	392.000 LF		.		.
1100	653.0135 PULL BOXES STEEL 24X36-INCH	8.000 EACH		.		.
1110	653.0140 PULL BOXES STEEL 24X42-INCH	9.000 EACH		.		.
1120	654.0105 CONCRETE BASES TYPE 5	9.000 EACH		.		.
1130	654.0102 CONCRETE BASES TYPE 2	1.000 EACH		.		.
1140	654.0105 CONCRETE BASES TYPE 5	4.000 EACH		.		.
1150	654.0113 CONCRETE BASES TYPE 13	1.000 EACH		.		.
1160	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL	1.000 EACH		.		.
1170	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG	1,182.000 LF		.		.

CONTRACT: 20120410031
PROJECT(S): 1198-00-61, 1198-00-75
FEDERAL ID(S): WISC 2012176, WISC 2012182

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
	655.0250 CABLE TRAFFIC					
1180	SIGNAL 9-14 AWG	116.000				
		LF		.		.
	655.0515 ELECTRICAL WIRE					
1190	TRAFFIC SIGNALS 10 AWG	2,012.000				
		LF		.		.
	655.0610 ELECTRICAL WIRE					
1200	LIGHTING 12 AWG	2,160.000				
		LF		.		.
	655.0620 ELECTRICAL WIRE					
1210	LIGHTING 8 AWG	2,355.000				
		LF		.		.
	655.0625 ELECTRICAL WIRE					
1220	LIGHTING 6 AWG	5,955.000				
		LF		.		.
	655.0700 LOOP DETECTOR					
1230	LEAD IN CABLE	1,265.000				
		LF		.		.
	655.0800 LOOP DETECTOR					
1240	WIRE	1,908.000				
		LF		.		.
	657.0100 PEDESTAL BASES					
1250		5.000				
		EACH		.		.
	657.0205 TRANSFORMER					
1260	BASES BREAKAWAY 13-15	9.000				
	INCH BOLT CIRCLE	EACH		.		.
	657.0255 TRANSFORMER					
1270	BASES BREAKAWAY 11	8.000				
	1/2-INCH BOLT CIRCLE	EACH		.		.
	657.0310 POLES TYPE 3					
1280		1.000				
		EACH		.		.

CONTRACT: 20120410031
PROJECT(S): 1198-00-61, 1198-00-75
FEDERAL ID(S): WISC 2012176, WISC 2012182

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
	SPV.0180 SPECIAL 02.					
1500	CONCRETE PAVEMENT REPLACEMENT DOWELED SPECIAL	1,500.000 SY		.		.
	SPV.0180 SPECIAL 03.					
1510	CONCRETE PAVEMENT 10-INCH SPECIAL	1,070.000 SY		.		.
	655.0305 CABLE TYPE UF					
1520	2-12 AWG GROUNDED	755.000 LF		.		.
	SPV.0060 SPECIAL 04.					
1530	RAMP CLOSURE GATES HARDWIRED 24-FT	1.000 EACH		.		.
	SPV.0060 SPECIAL 05.					
1540	RAMP CLOSURE GATES HARDWIRED 26-FT	2.000 EACH		.		.
	SPV.0060 SPECIAL 06.					
1550	RAMP CLOSURE GATES HARDWIRED 30-FT	1.000 EACH		.		.
	SPV.0060 SPECIAL 07.					
1560	RAMP CLOSURE GATE ARMS STOCKPILE 24-FT	1.000 EACH		.		.
	SPV.0060 SPECIAL 08.					
1570	RAMP CLOSURE GATE ARMS STOCKPILE 26-FT	1.000 EACH		.		.
	SPV.0060 SPECIAL 09.					
1580	RAMP CLOSURE GATE ARMS STOCKPILE 30-FT	1.000 EACH		.		.
	SPV.0060 SPECIAL 10.					
1590	RAMP CLOSURE GATE FLASHERS STOCKPILE	3.000 EACH		.		.

CONTRACT: 20120410031
PROJECT(S): 1198-00-61, 1198-00-75
FEDERAL ID(S): WISC 2012176, WISC 2012182

CONTRACTOR :_____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS	UNIT PRICE CTS	BID AMOUNT DOLLARS	BID AMOUNT CTS
1600	SPV.0060 SPECIAL 11. GROUND ROD	4.000 EACH	.			.
	SECTION 0001 TOTAL					.
	TOTAL BID					.