Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project ID 1540-04-73, River Falls – New Richmond, STH 65 Expansion / 70th Avenue Intersection, STH 65, St. Croix County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2018 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.
100-005 (20161130)

2. Scope of Work.

The work under this contract shall consist of grading, marsh excavation, base aggregate, concrete pavement, HMA pavement, overhead sign structures, culvert pipe, storm sewer, concrete curb and gutter, concrete sidewalk, MGS guardrail, permanent signing, pavement marking, traffic control, traffic signals, street lighting, ITS and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.
104-005 (20090901)

3. Prosecution and Progress.

Begin work within ten calendar days after the engineer issues a written notice to do so.

Provide the start date to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the approved start date.

To revise the start date, submit a written request to the engineer at least two weeks before the intended start date. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

The contract time for completion is based on an expedited work schedule and may require extraordinary forces and equipment. Included in this "Prosecution and Progress" special provision are interim and final completion dates. These dates indicate that work efforts will possibly require multiple or concurrent controlling operations to occur at the same time. This information is included to assist the contractor and its subcontractors and shall not be interpreted as a demonstration of specified means and methods or work periods other than intermediate and completion dates. Indicate on the proposed schedule of operations that a

large force and adequate equipment will be needed to assure that the work will be completed within the established contract time.

The contractor is advised that there may be multiple mobilizations for such items as erosion control, traffic control, detours, signing items, temporary pavement markings and other incidental items related to the staging. The department will make no additional payment for said mobilizations.

Winter weather work, excavation for frozen ground, high ground water and dewatering during winter months shall not be considered adverse weather delays to construction. Cost of dewatering is considered incidental to construction.

Anticipate cold weather and early spring concrete paving and ancillary concrete work (curb, median barrier, etc.). Plan to heat aggregates and water for mixes and that the heating of the aggregate and water is considered incidental to those concrete items. There will be no adverse weather delay for cold weather construction.

Conform the schedule of operations to the construction staging as shown in the traffic control plans and as described herein unless modifications to the schedule are approved in writing by the engineer.

Schedule of Operations
The department anticipates that the schedule for each stage is as follows:

- Stage 1 – Construct temporary 70th Avenue, STH 65 median crossover, and park and ride driveway relocation.
- Stage 2 – Reconstruct STH 65 northbound lanes (south of 70th Avenue), and 70th Avenue (east of STH 65).
- Stage 2A – Reconstruct STH 65 northbound left turn lanes, and stage 3 median crossovers (2).
- Stage 3 – Reconstruct STH 65 southbound lanes (between the westbound IH 94 on-ramp and 70th Avenue), and 70th Avenue (west of STH 65).
- Stage 3A – Reconstruct STH 65 southbound lanes (south of the westbound IH 94 on-ramp).
- Stage 4 – Set up STH 65 detour, reconstruct STH 65 (north of 70th Avenue), and removal of temporary 70th Avenue roadway.
- Stage 4A – Complete STH 65 median noses, and finish site grading near the park and ride lot.

Do not switch traffic over to the next construction stage until all signing, pavement marking, reflectors, lighting, tubular marker posts, barricades, and traffic control drums for the stage are in place, and conflicting pavement markings and signs are removed as shown in the traffic control and temporary signal plans and as directed by the engineer.

Contractor Coordination
The prime contractor shall have a superintendent or designated representative on the job site during all controlling work operations, including periods limited to only subcontractor work operations, to serve as a primary contact person and to coordinate all work operations.

Hold progress meetings once a week for Project 1540-04-73. The contractor's superintendent or designated representative and subcontractor's representatives for ongoing subcontract work or subcontractor work expected to begin within the next two weeks are to attend and provide a written schedule of the next week(s)' operations. Include begin and end dates of specific prime and subcontractor work operations including lane closures and traffic switches. Invite utilities, Village of Roberts, Town of Warren, and St. Croix County Sheriff representatives to attend the progress meetings. Agenda items at the meeting will include review of the contractor's schedule and subcontractors' schedule, utility conflicts and relocation schedule, evaluation of progress and pay items, and making revisions if necessary. Plans and specifications for upcoming work will be reviewed to prevent potential problems or conflicts between contractors.

Based on the progress meeting, if the engineer requests a new revised schedule, submit it within seven calendar days. Failure to submit a new schedule within seven days shall result in the engineer holding pay requests until received.

Interim and Final Completion of Work
Supplement subsection 108.11 of the standard specifications as follows:

If the contractor fails to complete all work on STH 65, north of 70th Avenue, and reopen STH 65 to through traffic within thirty-two (32) working days, the department will assess the contractor $1810 in interim liquidated damages per each calendar day that STH 65 is not reopened to traffic.

The department will not grant time extensions for the following:
1. Severe weather as specified in subsection 108.10.2.2 of the standard specifications.
2. Labor disputes that are not industry wide.
3. Delays in material deliveries.

If contract time expires prior to completing all work specified in the contract, additional liquidated damages will be affixed in accordance to subsection 108.11 of the standard specifications.

4. Traffic

General
Use drums and barricades to direct local vehicular and pedestrian traffic in the work zone and to protect and delineate hazards such as open excavations, abrupt drop-offs, and inlets, etc. The use of such devices shall be incidental to the operation which creates the hazard.

Place roadway signing and roadway temporary pavement marking as detailed on the plans and in conformance to the Manual on Uniform Traffic Control Devices (MUTCD), latest

edition. Traffic control shall be completely in place by the end of the working day of a traffic switch.

Do not deliver or store materials and equipment within open travel lanes or open side roads during any stage of construction. Temporary lane closures and/or halting of traffic within open roadways and pedestrian paths require flaggers and will not be permitted during Peak Travel Periods.

Conduct operations in a manner that will cause the least interference to traffic. Maintain vehicle and pedestrian access at all times to buildings within the limits of construction.

Obtain approval from the engineer for the location of any ingress or egress access points for construction vehicles during peak travel periods.

Conduct work operations under this contract in a manner that causes the least disruption to traffic movements on STH 65, associated interchange ramps, and 70th Avenue. Do not directly cross, unload materials from, stop in or otherwise interfere with traffic in any lane or ramp that is open to traffic with construction equipment or vehicles. All access to STH 65 by construction equipment will be at locations approved by the engineer.

Provide the engineer with a hauling plan prior to the pre-construction conference. Include the proposed locations of points of entry and traffic control used. Obtain approval from the engineer for all arrangements for handling traffic during construction operations.

Provide the engineer with a schedule of lane closures for the following week by noon on Thursday of the previous week. All lane and shoulder closures and duration are subject to the approval of the engineer based on operational needs and safety. Notify the engineer if there are any changes in the schedule, early completions, or cancellations of scheduled work.

Flagging operations will not be permitted on STH 65 or 70th Avenue.

Equip all construction vehicles and equipment entering or leaving live traffic lanes with a hazard identification beam (flashing yellow signal). The beam shall be activated when merging into or exiting a live traffic lane.

Do not park or store any equipment, vehicles, or construction materials within 30-feet of the edge of traffic lane carrying STH 65 traffic or within the median during non-working hours. In the event of an emergency, protect any equipment, vehicles, or construction materials which remain within 30-feet of the edge of a traffic lane during non-working hours with temporary roadside barrier according to the standard specifications and meeting the requirements of the AASHTO Roadside Design Guide.

Have available at all times experienced personnel to promptly install, remove, and reinstall the required traffic control devices to route traffic in order to perform the necessary construction operations.

Coordinate traffic requirements under this contract with other ongoing department construction projects. This contractor shall be responsible for implementing and coordinating with other contractors all traffic control as shown on the plans.

Traffic Operations
The IH 94 interchange ramps and the 70th Avenue intersection shall remain open to traffic at all times unless otherwise noted in this article. The 70th Avenue intersection shall remain under signalized operations at all times.

STH 65, north of 70th Avenue will be closed during Stage 4 and detoured along IH 94, USH 12, and/or USH 63 as shown in the plans. Post the closure three (3) business days in advance of the closure with dates and times of the closure.

Portable Changeable Message Signs
Contact the State Patrol two (2) weeks prior to the first lane closure. For incident management and coordinating portable changeable message sign communications system testing, contact Northwest Region State Highway Patrol, Sgt. Mike Melgaard, at (715) 236-2242, or PCS Denice Staff, at (715) 839-3800, Ext. 109.

Portable changeable message signs provided under this contract will be used for incident management or as required by the engineer and are to be operated by the Wisconsin State Patrol. Coordinate the locations of portable changeable message signs with the engineer. Obtain acceptance from the engineer for all messages for all portable changeable message signs. Place the required portable changeable message signs at the specified locations in the plan at least one (1) week prior to construction. Use portable changeable message signs seventy-two (72) hours in advance of and during highway lane alterations to indicate such alterations and to notify drivers of changing stages, traffic patterns, night time closures, and ramp closures.

Property Access
Maintain access to properties along the project for local residents, businesses, and emergency vehicles. Access to all driveways where alternative access is not available shall remain open at all times, except when it is absolutely necessary to close them for underground construction.

Inform all adjacent property owners two working days prior to closing their access(es). Maintaining property access as described above is considered included with the Traffic Control (Project) bid item.

Advance Notification
Notify the Town of Warren, Village of Roberts Fire Department, St. Croix County Sheriff's Department and Highway Commissioner, Wisconsin State Patrol, Roberts Post Office and local media outlets forty-eight (48) hours in advance of the start of work, closures of existing streets, and prior to traffic control changes. Notifications must be given by 4:00 p.m. on Thursday for any such work to be done on the following Monday.

Notify local school districts two weeks prior to construction. Also notify them one week prior to traffic switches and lane closures.

The department has the authority to disallow any requested closures or width restrictions. Advance notification as described above is considered included with the Traffic Control (Project) bid item.

Wisconsin Lane Closure System Advance Notification
Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS).

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Full ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction >16')	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
System and service ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.
108-057 (20160607)

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying STH 65 traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 25, 2018 to 6:00 AM Tuesday, May 29, 2018 for Memorial Day;
- From noon Friday, June 29, 2018 to 6:00 AM Thursday, July 5, 2018 for Independence Day;

- From noon Friday, August 31, 2018 to 6:00 AM Tuesday, September 4, 2018 for Labor Day.

stp-107-005 (20050502)

6. Utilities.

This contract comes under the provision of Administrative Rule Trans 220.
stp-107-065 (20080501)

UTILITY COORDINATION ONGOING – NO WORKPLANS HAVE BEEN RECIEVED

Midwest Natural Gas Incorporated – Gas/Petroleum
Midwest Natural Gas Incorporated has facilities throughout the project.

Contact information for Midwest Natural Gas Incorporated natural gas facilities:

Doug Dickenson
Midwest Natural Gas Incorporated – Gas/Petroleum
3600 STH 157
La Crosse, WI 54602
Office: 608-781-1011
dougd@midwestnaturalgas.com

STA 57+82S LT – STA 65+05S LT, STH 65 SB: 4-inch steel gas main at this location, relocation anticipated STA 63+75S LT – STA 65+05S LT due to conflicts with temporary grading, proposed grading, and storm sewer.

STA 65+20S LT – STA 82+70S LT, STH 65 SB: 3-inch HDPE gas main at this location, relocation anticipated STA 65+20S LT – STA 77+00S LT due to conflict with proposed roadway, grading, storm sewer, and overhead sign base.

STA 13+00E LT – STA 26+53E LT, 70th Avenue: 4-inch HDPE gas main at this location, relocation anticipated due to conflict with temporary grading, temporary pipes, proposed grading, and storm sewer.

STA 15+33E, 70th Avenue Crossing: Gas service line crossing at this location, temporary roadway fill will be placed at this location. Additionally, ditch grading for proposed roadway at this location.

STA 17+90E, 70th Avenue Crossing: 4-inch HDPE gas main crossing at this location, relocation anticipated due to conflict with proposed and temporary grading.

STA 18+07E, 70th Avenue Crossing: 4-inch HDPE gas main crossing, relocation anticipated due to conflicts with proposed and temporary grading.

STA 18+38E, 70th Avenue Crossing: 4-inch steel gas main crossing at this location, conflicts with temporary grading, proposed grading, and storm sewer anticipated.

STA 18+07E RT – STA 18+38E RT, 70th Avenue: 4-inch HDPE gas main and gas main valves at this location, relocation anticipated due to conflicts with proposed grading and storm sewer.

STA 18+38E LT – STA 26+53E LT, 70th Avenue: 4-inch steel gas main, relocation anticipated due to conflict with temporary grading, proposed grading, and storm sewer.

Street Lighting Conflicts

-	Underground Line	70+66 NB	18' LT SLXXX

Traffic Signal Conflicts

-	Underground Line	64+83 SB	68' LT SB12
-	Underground Line	67+66 SB	9' RT PB18
-	Underground Line	68+77 SB	28' RT PB20

St. Croix Electric Cooperative – Electric Distribution

St. Croix Electric Cooperative has overhead and underground electric facilities throughout the project.

Contact information for St. Croix Electric Cooperative facilities:

Rob Dooley
St. Croix Electric Cooperative – Electric Distribution
1925 Ridgeway Street
PO Box 108
Hammond, WI 54015
Office: 715-796-7000
RobDoo@scecnet.net

Overhead Electric Distribution

STA 57+65N RT – STA 63+06N RT & STA 63+06N RT – STA 82+70S LT, STH 65 NB: Overhead 3 phase electric lines at this location. Utility pole relocations anticipated due to proposed roadway and roadway grading.

STA 59+34N RT, STH 65 NB: Utility pole and guy anchors at this location, relocation anticipated due to conflict with proposed grading (approximate 6-ft excavation at pole location).

STA 61+75N RT, STH 65 NB: Utility pole and guy anchors at this location, relocation required due to conflict with the proposed roadway.

STA 63+06N RT, STH 65 NB: Utility pole at this location, relocation required due to conflict with the proposed roadway.

STA 68+00N RT, STH 65 NB: Utility pole at this location, relocation anticipated due to conflict with proposed grading (approximate 5-ft excavation at pole location).

STA 70+89N LT, STH 65 NB: Utility pole and guy anchor at this location, relocation required due to conflict with the proposed roadway.

STA 73+85N LT, STH 65 NB: Utility pole and guy anchor at this location, relocation required due to conflict with the proposed roadway.

STA 76+50S LT, STH 65 SB: Utility pole at this location, relocation anticipated due to conflict with proposed grading (approximate 3-ft excavation at pole location).

STA 79+34S LT, STH 65 SB: Utility pole at this location, no conflicts anticipated.

STA 81+83S LT, STH 65 SB: Utility pole at this location, relocation anticipated due to conflict with proposed grading (approximate 4-ft fill at pole location).

STA 12+00E LT – STA 26+53E LT, 70th Avenue: Overhead 3 phase electric lines at this location. Utility pole relocations required due to temporary roadway grading.

STA 12+67E LT, 70th Avenue: Utility pole at this location, no conflict anticipated.

STA 15+17E LT, 70th Avenue: Utility pole at this location, relocation anticipated due to conflict with temporary roadway and driveway connection.

STA 17+03E LT, 70th Avenue: Utility pole and guy line anchors at this location, relocation necessary due to conflict with temporary roadway, temporary driveway connection, and proposed roadway.

STA 21+85E LT, 70th Avenue: Utility pole and guy anchors at this location, relocation necessary due to conflict with proposed roadway.

STA 21+92E RT, 70th Avenue: Utility guy pole at this location, relocation anticipated due to conflict with proposed grading (May remain in place, close to slope intercept).

STA 22+05E RT, 70th Avenue: Light pole at this location, relocation anticipated due to conflict with proposed grading (May remain in place, close to slope intercept).

STA 24+22E LT, 70th Avenue: Utility pole and guy anchors at this location, relocation necessary due to conflict with proposed Park & Ride driveway relocation.

STA 26+40E LT, 70th Avenue: Utility pole at this location, relocation necessary due to conflict with temporary roadway.

Underground Electric Distribution

STA 62+97N RT – STA 63+60N LT, STH 65 Crossing: Underground 3-phase electric line at this location, relocation to extend beyond roadway grading limits necessary at STA 63+06N RT.

STA 63+06N RT – STA 65+50N RT, STH 65 NB: Underground 3-phase electric line at this location, relocation necessary due to proposed roadway grading and storm sewer.

STA 15+17E LT, 70th Avenue Crossing: Underground 3-phase electric line at this location, relocation necessary at utility pole connection due to conflict with temporary roadway.

STA 15+20E RT – STA 18+75E RT, 70th Avenue: Underground 3-phase electric line at this location, no conflicts anticipated.

Street Lighting Conflicts

-	Overhead Line	70+66 NB	18' LT SLXXX
-	Overhead Line	22+08	39' LT SLXXX

Traffic Signal Conflicts

-	Underground Line	65+52 NB	62' RT PB2
-	Underground Line	65+48 NB	47' RT SB1

Village of Roberts – Water Main, Sanitary Sewer, & Storm Sewer

Village of Roberts has water main, sanitary sewer, and storm sewer facilities throughout the project.

Contact information for Village of Roberts facilities:

Village of Roberts – Public Works
John Bond - Director
107 E Maple Street
Roberts, WI 54023
Office: 715-760-1312

Water Main

STA 14+02E, 70th Avenue Crossing: 12-inch water main existing at this location. Temporary roadway slope fill anticipated over water valves located approximately 40' LT.

Sanitary Sewer

STA 13+95E, 70th Avenue Crossing: 8-inch sanitary sewer crossing at this location. No conflicts with temporary roadway grading anticipated.

Storm Sewer

STA 12+90E LT – STA 13+25E LT, 70th Avenue: Existing storm sewer outlets at this location. No conflicts anticipated with temporary roadway grading.

CenturyLink Communications

CenturyLink Communications has facilities throughout the project.

Contact information for CenturyLink Communications fiber optic facilities:

Robert Sampson
CenturyLink Communications
1310 East Mary Street
Ottumwa, WI 52501
Office: 636-887-5367
Robert.Sampson@centurylink.com

STA 55+35N RT – STA 58+75N RT, STH 65 NB: Buried fiber optic line at this location, no conflicts anticipated.

STA 58+75N RT – STA 60+50S LT, STH 65 Crossing: Buried fiber optic line at this location, relocation anticipated in NB ditch due to proposed grading (approximate 8-ft excavation).

STA 60+50S LT – STA 82+70S LT, STH 65 SB: Buried fiber optic line at this location, relocation anticipated STA 63+75S LT – STA 77+00S LT due to conflict with proposed roadway, grading, and storm sewer.

Traffic Signal Conflicts

-	Underground Line	64+41 SB	75’ LT PB13
-	Underground Line	65+57 SB	36’ LT SB13

Baldwin Telecom, Inc. – Communication Line

Baldwin Telecom, Inc. has facilities throughout the project.

Contact information for Baldwin Telecom, Inc. fiber optic facilities:

Ken Carlsrud
Baldwin Telecom, Inc.
930 Maple Street
Baldwin, WI 54002
Office: 715-684-3346
kcarlsrud@lswi.net

STA 55+35N RT – STA 58+75N RT, STH 65 NB: Buried fiber optic line at this location, no conflicts anticipated.

STA 58+75N RT – STA 67+42N RT, STH 65 NB: Buried fiber optic line and vaults at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

STA 62+97N RT – STA 63+60N LT, STH 65 Crossing: Buried fiber optic line at this location, relocation to extend beyond roadway grading limits necessary at STA 62+97N RT.

STA 67+42N, STH 65 Crossing: Buried fiber optic line at this location, relocation anticipated due to conflict with proposed roadway and grading.

STA 67+55S LT – STA 82+70S LT, STH 65 SB: Buried fiber optic line at this location, relocation anticipated STA 67+55S LT – STA 77+00S LT due to conflict with proposed roadway and grading.

STA 15+20E RT – STA 18+75E RT, 70th Avenue: Buried fiber optic line at this location, no conflicts anticipated.

STA 63+42N RT – STA 22+18E RT, STH 65/70th Avenue SE Quadrant: Buried fiber optic line at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

Street Lighting Conflicts

-	Underground Line	70+66 NB	18' LT SLXXX

Traffic Signal Conflicts

-	Underground Line	65+59 NB	34' RT SB2
-	Underground Line	68+77 SB	28' RT PB20

AT&T Wisconsin – Communication Line

AT&T Wisconsin has fiber optic facilities throughout the project.

Contact information for AT&T WI fiber optic facilities:

Rick Podolak
AT&T WI Design Engineering
304 S Dewey Street
Eau Claire, WI 54701
Office: 715-839-5565
Cell: 715-410-0656
Rp4514@att.com

STA 55+35N RT – STA 58+75N RT, STH 65 NB: Buried fiber optic line at this location, no conflicts anticipated.

STA 58+75N RT – STA 70+90N RT, STH 65 NB: Buried fiber optic line and vaults at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

STA 63+75N, STH 65 Crossing: Buried fiber optic line at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

STA 70+90N RT – STA 82+70N RT, STH 65 NB: Buried fiber optic and telephone lines and vaults at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

STA 74+65N, STH 65 Crossing: Buried telephone line at this location, relocation anticipated due to conflict with proposed roadway and grading.

STA 74+65N LT – STA 82+70N LT, STH 65 NB: Buried telephone line at this location. This line is abandoned and will remain in place

STA 15+00E RT – STA 26+53E RT, 70th Avenue: Buried fiber optic line at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

STA 20+80E, 70th Avenue Crossing: Buried fiber optic line at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

STA 20+90E, 70th Avenue Crossing: Buried fiber optic line at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

STA 21+50E LT – STA 22+65E LT, 70th Avenue: Buried fiber optic line and vaults at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

STA 21+50E, 70th Avenue Crossing: Buried fiber optic line at this location, relocation anticipated due to conflict with proposed roadway, grading, and storm sewer.

STA 22+65E, 70th Avenue Crossing: Buried fiber optic line and vaults at this location, relocation anticipated due to conflict with proposed roadway and grading.

Street Lighting Conflicts

-	Underground Line	63+35 NB	70’ RT SLXXX
-	Underground Line	22+08	39’ LT SLXXX

Traffic Signal Conflicts

-	Underground Line	66+05 NB	57’ RT CB1
-	Underground Line	65+94 NB	60’ RT PB1
-	Underground Line	65+52 NB	62’ RT PB2
-	Underground Line	65+53 NB	54’ RT PB3
-	Underground Line	65+48 NB	47’ RT SB1
-	Underground Line	64+27 NB	70’ RT PB4
-	Underground Line	64+16 NB	37’ RT PB5
-	Underground Line	64+50 NB	39’ RT SB3
-	Underground Line	64+34 NB	43’ LT SB7
-	Underground Line	63+85 SB	51’ LT SB8
-	Underground Line	66+03 NB	44’ RT PB21
-	Underground Line	66+10 NB	46’ RT SB17

Wisconsin Department of Transportation NW Region – Electric

Wisconsin Department of Transportation NW Region has electric facilities throughout the project.

Contact information for Wisconsin Department of Transportation NW Region for facilities:

Matthew Bromeisl
Wisconsin Department of Transportation NW Region
718 W Clairemont Avenue
Eau Claire, WI 54701
Office: 715-839-3787
Cell: 715-577-5399
Matthew.bromeisl@dot.wi.gov

STA 54+00N – STA 73+00N, STH 65: Underground electric lines, light poles, pull boxes, signal poles, control cabinets, and loop detectors in this location. Relocation anticipated due to conflict with temporary roadway, proposed roadway, grading, storm sewer, signals, and lighting.

STA 18+00E – STA 22+00E, 70th Avenue: Underground electric lines, light poles, pull boxes, signal poles, cabinets, and loop detectors in this location. Relocation anticipated due to conflict with temporary roadway, proposed roadway, grading, storm sewer, signals, and lighting.

Park & Ride: Lighting underground lines, pull box, and light pole at this location, relocation necessary due to conflict with temporary roadway.

Wisconsin Department of Transportation ITS

Wisconsin Department of Transportation ITS has facilities adjacent to the south end of the project.

Contact information for Wisconsin Department of Transportation NW Region for facilities:

Jeff Madson
Wisconsin Department of Transportation ITS
433 W St. Paul Avenue #300
Milwaukee, WI 53203
Office: 414-225-3723
Jeffrey.Madson@dot.wi.gov

No conflicts are anticipated with ITS facilities.

7. Information to Bidders, U.S. Army Corps of Engineers Section 404 Permit.

The department has obtained a U.S. Army Corps of Engineers Section 404 permit. Comply with the requirements of the permit in addition to requirements of the special provisions. A copy of the permit is available from the regional office by contacting Nick Schaff at (715)-836-2068.
stp-107-054 (20080901)

8. Coordination with Businesses.

The contractor shall arrange and conduct a meeting between the contractor, the department, affected residents, local officials and business people to discuss the project schedule of operations including vehicular and pedestrian access during construction operations. Hold the first meeting at least one week prior to the start of work under this contract and hold one meeting per month thereafter. The contractor shall arrange for a suitable location for the meeting(s) that provides reasonable accommodation for public involvement. The department will prepare and coordinate publication of the meeting notices and mailings for the meeting(s). The contractor shall schedule the meeting(s) with at least 2 weeks prior notice to the engineer to allow for these notifications.
stp-108-060 (20141107)

9. Notice to Contractor – Coordination with Precast Concrete Manufacturing Facility.

The work included under this contract will require ongoing coordination with a precast concrete manufacturing facility (County Materials) 1,000-feet east of STH 65 on 70th Avenue. County Materials routinely hauls concrete materials and aggregate through the STH 65 and 70th Avenue intersection; including concrete girder transports up to 250-feet in length. Coordination will be required throughout the project to provide for continuous access through the work zone.

Contact the dispatch supervisor – Jared Benson – at (715)-749-2275 to coordinate project activities with County Materials.

10. Notice to Contractor – Endangered Species Protection.

Complete all clearing, grubbing, and fence removals prior to April 15, 2018 for compliance with an environmental commitment to avoid potential disruption to nesting endangered bird species.

11. QMP Base Aggregate.

A Description

A.1 General

(1) This special provision describes contractor quality control (QC) sampling and testing for base aggregates, documenting those test results, and documenting related production and placement process changes. This special provision also describes department quality verification (QV), independent assurance (IA), and dispute resolution.

(2) Conform to standard spec 301, standard spec 305, and standard spec 310 as modified here in this special provision. Apply this special provision to material placed under all of the Base Aggregate Dense and Base Aggregate Open Graded bid items, except do not apply this special provision to material classified as reclaimed asphaltic pavement placed under the Base Aggregate Dense bid items.

(3) Do not apply this special provision to material placed and paid for under the Aggregate Detours, Breaker Run, Select Crushed, Pit Run, Subbase, or Riprap bid items.

(4) Provide and maintain a quality control program, defined as all activities related to and documentation of the following:

1. Production and placement control and inspection.
2. Material sampling and testing.

(5) Chapter 8 of the department's construction and materials manual (CMM) provides additional detailed guidance for QMP work and describes required sampling and testing procedures. The contractor may obtain the CMM from the department's web site at: http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/rdwy/default.aspx

A.2 Small Quantities

(1) The department defines a small quantity, for each individual Base Aggregate bid item, as a contract quantity of 9000 tons or less of material as shown in the schedule of items under that bid item.

(2) The requirements under this special provision apply equally to a small quantity for an individual bid item except as follows:

A.2.1 Quality Control Plan

(1) Submit an abbreviated quality control plan consisting of the following:

1. Organizational chart including names, telephone numbers, current certification(s) with HTCP number(s) and expiration date(s), and roles and responsibilities of all persons involved in the quality control program for material under affected bid items.

A.2.2 Contractor Testing

1.

Contract Quantity	Minimum Required Testing per source
≤ 6000 tons	One stockpile test prior to placement, and two production or one loadout test.
> 6000 tons and ≤ 9000 tons	One stockpile and Three placement tests[3] [4] [5]

[1] Submit production test results to the engineer for review prior to incorporating the material into the work. Production test results are valid for a period of 3 years.

[2] If the actual quantity overruns 6,000 tons, on the next day of placement perform one randomly selected placement test for each 3000 tons, or fraction of 3000 tons, of overrun.

[3] If the actual quantity overruns 9000 tons, on the next day of placement perform one randomly selected placement test for each 3000 tons, or fraction of 3000 tons, of overrun.

[4] For 3-inch material or lift thickness of 3-inch or less, obtain samples at load-out.

[5] Divide the aggregate into uniformly sized sublots for testing

2. Stockpile testing for concrete pavement recycled in place will be sampled on the first day of production.

3. Until a four point running average is established, individual placement tests will be used for acceptance. Submit aggregate load-out and placement test results to the engineer within one business day of obtaining the sample. Assure that all properties are within the limits specified for each test.
4. Material represented by a sublot with any property outside the specification limits is nonconforming. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

A.2.3 Department Testing

(1) The department will perform testing as specified in B.8 except as follows:

Department stockpile verification testing prior to placement is optional for contract quantities of 500 tons or less.

B Materials

B.1 Quality Control Plan

(1) Submit a comprehensive written quality control plan to the engineer at or before the pre-construction meeting. Do not place base before the engineer reviews and comments on the plan. Construct the project as that plan provides.

(2) Do not change the quality control plan without the engineer's review. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in each of the contractor's laboratories as changes are adopted. Ensure that the plan provides the following elements:

1. An organizational chart with names, telephone numbers, current certifications and/or titles, and roles and responsibilities of QC personnel.
2. The process used to disseminate QC information and corrective action efforts to the appropriate persons. Include a list of recipients, the communication means that will be used, and action time frames.
3. A list of source and processing locations, section and quarter descriptions, for all aggregate materials requiring QC testing.
4. Test results for wear, sodium sulfate soundness, freeze/thaw soundness, and plasticity index of all aggregates requiring QC testing. Obtain this information from the region materials unit or from the engineer.
5. Descriptions of stockpiling and hauling methods.
6. Locations of the QC laboratory, retained sample storage, and where control charts and other documentation is posted.
7. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.

B.2 Personnel

(1) Have personnel certified under the department's highway technician certification program (HTCP) perform sampling, testing, and documentation as follows:

Required Certification Level:	Sampling or Testing Roles:
Transportation Materials Sampling Technician (TMS) Aggregate Technician I (AGGTEC-I) Aggregate Assistant Certified Technician (ACT-AGG)	Aggregate Sampling[1]
Aggregate Technician I (AGGTEC-I) Aggregate Assistant Certified Technician (ACT-AGG)	Aggregate Gradation Testing, Aggregate Fractured Particle Testing, Aggregate Liquid Limit and Plasticity Index Testing

[1] Plant personnel under the direct observation of an aggregate technician certified at level one or higher may operate equipment to obtain samples.

(2) A certified technician must coordinate and take responsibility for the work an ACT performs. Have a certified technician ensure that all sampling and testing is performed correctly, analyze test results, and post resulting data. No more than one ACT can work under a single certified technician.

B.3 Laboratory

(1) Perform QC testing at a department-qualified laboratory. Obtain information on the Wisconsin laboratory qualification program from:

Materials Management Section
3502 Kinsman Blvd.
Madison, WI 53704
Telephone: (608) 246-5388
http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/tools/appr-prod/qual-labs.aspx

B.4 Quality Control Documentation

B.4.1 General

(1) Submit base aggregate placement documentation to the engineer within 10 business days after completing base placement. Ensure that the submittal is complete, neatly organized, and includes applicable project records and control charts.

B.4.2 Records

(1) Document all placement observations, inspection records, and control adjustments daily in a permanent field record. Also include all test results in the project records. Provide test results to the engineer within one business day after obtaining a sample. Post or distribute tabulated results using a method mutually agreeable to the engineer and contractor.

B.4.3 Control Charts

(1) Plot gradation and fracture on the appropriate control chart as soon as test results are available. Format control charts according to CMM 8.30. Include the project number on base placement control charts. Maintain separate control charts for each base aggregate size, source or classification, and type.

(2) Provide control charts to the engineer within one business day after obtaining a sample. Post or distribute charts using a method mutually agreeable to the engineer and contractor. Update control charts daily to include the following:

1. Contractor individual QC tests.
2. Department QV tests.
3. Department IA tests.
4. Four-point running average of the QC tests.

(3) Except as specified under B.8.2.1 for nonconforming QV placement tests, include only QC placement tests in the running average. The contractor may plot process control or informational tests on control charts, but do not include these tests, conforming QV tests, or IA tests in the running average.

B.5 Contractor Testing

(1) Test gradation, fracture, liquid limit and plasticity index during placement for each base aggregate size, source or classification, and type.

(2) Perform one stockpile test from each source prior to placement.

(3) Test gradation once per 3000 tons of material placed or fraction thereof. Determine random sample locations and provide those sample locations to the engineer. Obtain samples after the material has been bladed, mixed, and shaped but before compacting; except collect 3-inch samples or lift thickness of 3-inch or less from the stockpile at load-out. Do not sample from material used to maintain local traffic or from areas of temporary base that will not have an overlying pavement. On days when placing only material used to maintain local traffic or only temporary base that will not have an overlying pavement, no placement testing is required.

(4) Split each contractor QC sample and identify it according to CMM 8.30. Retain the split for seven calendar days in a dry, protected location. If requested for department comparison testing, deliver the split to the engineer within one business day.

(5) The engineer may require additional sampling and testing to evaluate suspect material or the technician’s sampling and testing procedures.

(6) Test fracture for each gradation test until the fracture running average is above the lower warning limit. Subsequently, the contractor may reduce the frequency to one test per 10 gradation tests if the fracture running average remains above the warning limit.

(7) Test the liquid limit and plasticity index for the first gradation test. Subsequently, test the liquid limit and plasticity index a minimum of once per 10 gradation tests.

B.6 Test Methods

B.6.1 Gradation

(1) Test gradation using a washed analysis conforming to the following as modified in CMM 8.60:

Gradation..... AASHTO T 27
Material finer than the No. 200 sieve..... AASHTO T 11

(2) For 3-inch base, if 3 consecutive running average points for the percent passing the No. 200 sieve are 8.5 percent or less, the contractor may use an unwashed analysis. Wash at least one sample out of 10. If a single running average for the percent passing the No. 200 sieve exceeds 8.5 percent, resume washed analyses until 3 consecutive running average points are again 8.5 percent passing or less.

(3) Maintain a separate control chart for each sieve size specified in standard spec 305 or standard spec 310 for each base aggregate size, source or classification, and type. Set control and warning limits based on the standard specification gradation limits as follows:

1. Control limits are at the upper and lower specification limits.
2. There are no upper warning limits for sieves allowing 100 percent passing and no lower control limits for sieves allowing 0 percent passing.
3. Dense graded warning limits, except for the No. 200 sieve, are 2 percent within the upper and lower control limits. Warning limits for the No. 200 sieve are set 0.5 percent within the upper and lower control limits.
4. Open graded warning limits for the 1-inch, 3/8-inch, and No. 4 sieves are 2 percent within the upper and lower control limits. Upper warning limits for the No. 10, No. 40, and No. 200 sieves are 1 percent inside the upper control limit.

B.6.2 Fracture

(1) Test fracture conforming to CMM 8.60. The engineer will waive fractured particle testing on quarried stone.

(2) Maintain a separate fracture control chart for each base aggregate size, source or classification, and type. Set the lower control limit at the contract specification limit, either specified in another special provision or in table 301-2 of standard spec 301.2.4.5. Set the lower warning limit 2 percent above the lower control limit. There are no upper limits.

B.6.3 Liquid Limit and Plasticity

(1) Test the liquid limit and plasticity according to AASHTO T 89 and T 90.

(2) Ensure the material conforms to the limits specified in standard spec table 301-2.

B.7 Corrective Action

B.7.1 General

(1) Consider corrective action when the running average trends toward a warning limit. Take corrective action if an individual test exceeds the contract specification limit. Document all corrective actions both in the project records and on the appropriate control chart.

B.7.2 Placement Corrective Action

(1) Do not blend additional material on the roadbed to correct gradation problems.

(2) Notify the engineer whenever the running average exceeds a warning limit. When two consecutive running averages exceed a warning limit, the engineer and contractor will discuss appropriate corrective action. Perform the engineer's recommended corrective action and increase the testing frequency as follows:

1. For gradation, increase the QC testing frequency to at least one randomly sampled test per 1000 tons placed.
2. For fracture, increase the QC testing frequency to at least one test per gradation test.

(3) If corrective action improves the property in question such that the running average after four additional tests is within the warning limits, the contractor may return to the testing frequency specified in B.5.3. If corrective action does not improve the property in question such that the running average after four additional individual tests is still in the warning band, repeat the steps outlined above starting with engineer notification.

(4) If the running average exceeds a control limit, material starting from the first running average exceeding the control limit and ending at the first subsequent running average inside the control limit is nonconforming and subject to pay reduction.

(5) For individual test results significantly outside the control limits, notify the engineer, stop placing base, and suspend other activities that may affect the area in question. The engineer and contractor will jointly review data, data reduction, and data analysis; evaluate sampling and testing procedures; and perform additional testing as required to determine the extent of potentially unacceptable material. The engineer may direct the contractor to remove and replace that material. Individual test results are significantly outside the control limits if meeting one or more of the following criteria:

1. A gradation control limit for the No. 200 sieve is exceeded by more than 3.0 percent.
2. A gradation control limit for any sieve, except the No. 200, is exceeded by more than 5.0 percent.
3. The fracture control limit is exceeded by more than 10.0 percent.

B.8 Department Testing

B.8.1 General

(1) The department will conduct verification testing to validate the quality of the product and independent assurance testing to evaluate the sampling and testing. The department will provide the contractor with a listing of names and telephone numbers of all QV and IA personnel for the project, and provide test results to the contractor within two business days after the department obtains the sample.

B.8.2 Verification Testing

B.8.2.1 General

(1) The department will have an HTCP technician, or ACT working under a certified technician, perform QV sampling and testing. Department verification testing personnel must meet the same certification level requirements specified in B.2 for contractor testing personnel for each test result being verified. The department will notify the contractor before sampling so the contractor can observe QV sampling.

(2) The department will conduct QV tests of each base aggregate size, source or classification, and type during placement conforming to the following:

1. Perform one stockpile test from each source prior to placement.
2. At least one random test per 30,000 tons, or fraction of 30,000 tons, placed.

(3) The department will sample randomly, at locations independent of the contractor's QC work, collecting one sample at each QV location. The department will collect QV samples after the material has been bladed, mixed, and shaped but before compacting; except, for 3-inch aggregates or for a lift thickness of 3-inch or less, the department will collect samples at load-out. The department will split each sample, test half for QV, and retain half.

(4) The department will conduct QV tests in a separate laboratory and with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.

(5) The department will assess QV results by comparing to the appropriate specification limits. If QV test results conform to the specification, the department will take no further action. If QV test results are nonconforming, add the QV to the QC test results as if it were an additional QC test.

B.8.3 Independent Assurance

(1) Independence assurance is unbiased testing the department performs to evaluate the department's QV and the contractor's QC sampling and testing including personnel qualifications, procedures, and equipment. The department will perform an IA review according to the department's independent assurance program. That review may include one or more of the following:

1. Split sample testing.
2. Proficiency sample testing.
3. Witnessing sampling and testing.
4. Test equipment calibration checks.
5. Reviewing required worksheets and control charts.
6. Requesting that testing personnel perform additional sampling and testing.

(2) If the department identifies a deficiency, and after further investigation confirms it, correct that deficiency. If the contractor does not correct or fails to cooperate in resolving identified deficiencies, the engineer may suspend placement until action is taken. Resolve disputes as specified in B.9.

B.9 Dispute Resolution

(1) The engineer and contractor should make every effort to avoid conflict. If a dispute between some aspect of the contractor's and the engineer's testing program does occur, seek a solution mutually agreeable to the project personnel. The department and contractor may review the data, examine data reduction and analysis methods, evaluate sampling and testing procedures, and perform additional testing. Use ASTM E 178 to evaluate potential statistically outlying data.

(2) Production test results, and results from other process control testing, may be considered when resolving a dispute.

(3) If the project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product, the department will use third party testing to resolve the dispute. The department's central office laboratory, or a mutually agreed on independent testing laboratory, will provide this testing. The engineer and contractor will abide by the results of the third party tests. The party in error will pay service charges incurred for testing by an independent laboratory. The department may use third party test results to evaluate the quality of questionable materials and determine the appropriate payment. The department may reject material or otherwise determine the final disposition of nonconforming material as specified in standard spec 106.5.

C (Vacant)

D (Vacant)

E Payment

(1) Costs for all sampling, testing, and documentation required under this special provision are incidental to this work. If the contractor fails to perform the work required under this special provision, the department may reduce the contractor's pay. The department will administer pay reduction under the non-performance of QMP administrative item.

(2) For material represented by a running average exceeding a control limit, the department will reduce pay according to CMM 8-10.6.2 for the affected Base Aggregate bid items listed in subsection A. The department will administer pay reduction under the Nonconforming QMP Base Aggregate Gradation or Nonconforming QMP Base Aggregate Fracture Administrative items. The department will determine the quantity of nonconforming material as specified in B.7.2.

stp-301-010 (20161130)

12. Electrical Work By Others.

Under project ID 1540-04-73, the Wisconsin Department of Transportation Northwest Region Electrical Unit will perform the following work for WisDOT maintained traffic signal systems:

- Complete and authorize electrical service installation applications
- Furnish equipment/materials for installation including: monotube poles and arms, Cat-5E and fiber optic cable, emergency preemption equipment, signal heads, and signal mounting hardware
- Provide all traffic signal timing
- Furnish and install the permanent traffic signal cabinet, including terminating all cabling
- Furnish and install traffic detection cameras and mounting hardware

13. Traffic Signal Timing

Traffic signals as shown on the plans shall be fully operational, as shown in the "Sequence of Operations" diagrams. The temporary traffic signals shall be operated in accordance with traffic signal timing parameters provided by WisDOT Northwest Region prior to construction.

All work required to install signal timing, perform test operations and make updates shall be considered incidental to the bid items of "Temporary Traffic Signals for Intersections". The following list includes anticipated traffic signal timing implementations throughout the project:

STH 65 & 70th Avenue – Temporary Signals (4 timing deployments)

- Stage 1
- Stage 2, 2A, 3, 3A
- Stage 4
- Stage 4A

14. Electrical Service Meter Breaker Pedestal (CB100), Item 656.0200.001.

Replace standard spec 656.2.3, Meter Breaker Pedestal Service, paragraph (1) with the following:

(1) Furnish an approved service having a meter breaker pedestal, 22,000-AIC circuit breakers unless the local utility requires otherwise, grounding electrodes and connections, conduit and fittings, and all necessary conductors and equipment required by the WSEC and the utility for a service connection. Furnish a pedestal with two 100 A 2-pole breakers for electrical service to a WisDOT traffic signal in conjunction with WisDOT lighting system. When the meter breaker pedestal is energized, install an approved meter seal at all access points on the meter trough. Meter shall be time of use type.

Replace standard spec 656.3.2, Service Lateral, paragraph (1) with the following:

(1) The local utility shall furnish and install a 100 A, 120/240 volt AC, single phase, 3-wire underground electrical service lateral. Arrange and assume responsibility for the timely installation of the service lateral by the utility. The lateral shall be terminated at a meter pedestal as the plans show.

Ensure that electrical service is installed and energized in accordance with traffic signal and lighting system activation deadlines.

Provide for an underground conduit connection to traffic signal and lighting cabinets. Do not pierce or otherwise compromise the integrity of the cabinet enclosure.

15. Cover Plates Temporary, Item 611.8120.S.

A Description
This special provision describes furnishing, installing and removing a steel plate to cover and support asphaltic pavement and traffic loading at manholes, inlets and similar structures during milling and paving operations.

B Materials
Provide a 0.25-inch minimum thickness steel plate that extends to the outside edge of the existing masonry.

C (Vacant)

D Measurement
The department will measure Cover Plates Temporary as each individual unit acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
611.8120.S	Cover Plates Temporary	Each

Payment is full compensation for furnishing, installing, and removing the cover plates.

The steel plates shall become the property of the contractor when no longer needed in the contract work.
stp-611-006 (20151210)

16. Pipe Grates, Item 611.9800.S.

A Description
This special provision describes furnishing and installing pipe grates on the ends of pipes as shown in the plans, and as hereinafter provided.

B Materials
Furnish steel conforming to the requirements of standard spec 506.2.2.1. Furnish steel pipe conforming to the requirements of standard spec 506.2.3.6.

Furnish pipe grates galvanized according to ASTM A123.

Furnish angles and brackets galvanized according to ASTM A123.

Furnish required hardware galvanized according to ASTM A153.

C Construction
Repair pipes, rods, angles and brackets on which the galvanized coating has been damaged in accordance to the requirements of AASHTO M36M.

D Measurement
The department will measure Pipe Grates in units of work, where one unit is one grate completed and accepted.

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

ITEM NUMBER	DESCRIPTION	UNIT
611.9800.S	Pipe Grates	Each

Payment is full compensation for furnishing and installing all materials; and for drilling and connecting grates to pipes.
stp-611-010 (20030820)

17. Fence Safety, Item 616.0700.S.

A Description
This special provision describes furnishing and installing a plastic fence at locations shown on the plans and as hereinafter provided.

B Materials
Furnish notched conventional metal “T” or “U” shaped fence posts.

Furnish fence fabric meeting the following requirements.

Color:	International orange (UV stabilized)
Roll Height:	4 feet
Mesh Opening:	1 inch min to 3 inch max
Resin/Construction:	High density polyethylene mesh
Tensile Yield:	Avg. 2000 lb per 4 ft. width (ASTM D638)
Ultimate Tensile Strength:	Avg. 3000 lb per 4 ft. width (ASTM D638)
Elongation at Break (%):	Greater than 100% (ASTM D638)
Chemical Resistance:	Inert to most chemicals and acids

C Construction
Drive posts into the ground 12 to 18 inches. Space posts at 7 feet.

Use a minimum of three wire ties to secure the fence at each post. Weave tension wire through the top row of strands to provide a top stringer that prevents sagging.

Overlap two rolls at a post and secure with wire ties.

D Measurement
The department will measure Fence Safety by the linear foot along the base of the fence, center-to-center of posts, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
616.0700.S	Fence Safety	LF

Payment is full compensation for furnishing and installing fence and posts; maintaining the fence and posts in satisfactory condition; and for removing and disposing of fence and posts at project completion.
stp-616-030 (20160607)

18. Install Conduit Into Existing Item, Item 652.0700.S.

A Description
This special provision describes installing proposed conduit into an existing manhole, pull box, junction box, communication vault, or other structure.

B Materials
Use conduit and fittings, as provided and paid for under other items in this contract. Furnish backfill material, topsoil, fertilizer, seed, and mulch conforming to the requirements of pertinent provisions of the standard specifications.

C Construction
Expose the outside of the existing structure without disturbing existing conduits or cabling. Drill the appropriate sized hole for the entering conduit(s) at a location within the structure without disturbing the existing cabling and without hindering the installation of new cabling within the installed conduit. Fill void area between the drilled hole and conduit with an engineer-approved filling material to protect against conduit movement and entry of fill material into the structure. Tamp backfill into place.

D Measurement
The department will measure Install Conduit Into Existing System by the unit, acceptably installed. Up to five conduits entering a structure per entry point into the existing structure will be considered a single unit. Conduits in excess of five, or conduits entering at significantly different entry points into the existing pull box, manhole, or junction box will constitute multiple units of payment.

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

ITEM NUMBER	DESCRIPTION	UNIT
652.0700.S	Install Conduit Into Existing Item	Each

Payment is full compensation for excavating, drilling holes; furnishing and installing all materials, including bricks, coarse aggregate, sand, bedding, and backfill; for excavating and backfilling; and for furnishing and placing topsoil, fertilizer, seed, and mulch in disturbed areas; for properly disposing of surplus materials; and for making inspections.
stp-652-070 (20100709)

19. Traffic Signal Face – LED State Furnished, Item 658.0190.S.

A Description
This work shall consist of assembling and installing department-furnished traffic signal faces, backplates, and LED modules according to standard spec 658 and as hereinafter provided.

B Materials
Pick-up the traffic signal faces, backplates, and LED modules at the district electrical department. Contact the region's electrical department three working days prior to picking up the materials.

C Construction
Install the LED modules per manufacturer's instructions into the traffic signal faces.

Mount the backplates onto the traffic signal faces.

Field-install the assembled traffic signal faces per contract requirements.

Once the installation is complete, record the signal number, model number, serial number, date of installation and location of the module at the intersection (NB near right, etc.), and give a copy of this information to the region's electrical department for warranty information.

D Measurement
The department will measure Traffic Signal Face – LED State Furnished as units, completed according to the contract and accepted.

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

ITEM NUMBER	DESCRIPTION	UNIT
658.0190.S	Traffic Signal Face – LED State Furnished	Each

Payment is full compensation for picking up the materials at the region electrical department; and for assembling and installing the complete traffic signal face in place.
stp-658-008 (20080902)

20. Pedestrian Signal Face – LED State Furnished, Item 658.0420.S.

A Description
This special provision describes assembling and installing state-furnished pedestrian faces and LED modules according to standard spec 658 and as hereinafter provided.

B Materials
Pick-up the pedestrian signal faces and LED modules at the region electrical department. Contact the region electrical department three working days prior to pick-up.

C Construction
Install the LED modules per manufacturer's instructions into the pedestrian signal faces.

Field-install the assembled pedestrian signal faces per contract requirements.

Once the installation is complete, record the signal number, model number, serial number, date of installation and location of the module at the intersection (NE quadrant etc.), and provide a copy of this information to the region electrical department for warranty information.

D Measurement
The department will measure Pedestrian Signal Face – LED State Furnished, completed in accordance to the contract and accepted, as units.

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

ITEM NUMBER	DESCRIPTION	UNIT
658.0420.S	Pedestrian Signal Face – LED State Furnished	Each

Payment is full compensation for picking up the materials at the region electrical department; and assembling and installing the complete pedestrian signal face in place.
stp-658-009 (20080902)

21. Remove and Reinstall Street Light, Item SPV.0060.001.

A Description
This special provision describes removing and reinstalling street lighting units.

B Materials
Use all street lighting materials salvaged from the project, except for the pole wiring. Furnishing new pole wiring shall be paid for under separate a bid item.

C Construction
Disconnect the lighting conductors at the transformer base and salvage the pole, luminaire arm and luminaire from the lighting units in the locations shown in the plans and/or as designated by the Engineer. Transformer base and concrete base shall remain in place. Cap all exposed wires at disconnect and ensure a water tight seal in transformer base. Electrical conductors pulled from the pole shall be properly disposed of.

Store salvaged lighting items on site, in a location designated by the Engineer, until ready for reinstallation. Salvaged items shall be stored and protected from damage until ready for delivery. Any damage to the salvaged materials resulting from the hauling operation shall be repaired or replaced in-kind at the Contractor's expense.

Reinstall salvaged street light items in accordance to the pertinent provisions of standard spec 657 and standard spec 659.

D Measurement
The department will measure Remove and Reinstall Street Light by each individual unit, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.001	Remove and Reinstall Street Light	EACH

Payment is full compensation for removing and reinstalling the street light assembly and all incidental hardware.

22. Remove and Relocate Street Light, Item SPV.0060.002.

A Description
This special provision describes removing and relocating street lighting units.

B Materials
Use all street lighting materials salvaged from the project, except for the concrete base, pole wiring and HPS luminaire. Furnishing a new concrete base, pole wiring and LED luminaire will be paid for under separate bid items.

C Construction
Disconnect and salvage the transformer base, pole and luminaire arm from the lighting units in the locations shown in the plans and/or as designated by the Engineer. Concrete base, electrical wiring and HPS luminaire shall be properly disposed of as directed by the Engineer.

Store salvaged lighting units on site, in a location designated by the Engineer, until ready for reinstallation. Salvaged items shall be stored and protected from damage until ready for delivery. Any damage to the salvaged materials resulting from the hauling operation shall be repaired or replaced in-kind at the Contractor's expense.

Reinstall salvaged street light items in accordance to the pertinent provisions of standard spec 657 and standard spec 659, and as shown in the plans.

This item includes coordination and incidentals necessary to remove or have removed by others: street signs, and all accessories affixed to the lighting units.

D Measurement
The department will measure Remove and Relocate Street Light by each individual unit, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.002	Remove and Relocate Street Light	EACH

Payment is full compensation for removing and relocating the street light assembly and all incidental hardware.

23. Remove Existing Lighting Control Cabinet, Item SPV.0060.003.

A Description
This special provision describes removing existing lighting control cabinets, meter housing and restoring the site to match the surroundings. Removing the concrete foundation shall be paid for under a separate bid item.

B (Vacant)

C Construction
Contact Rob Dooley, St. Croix Electric Cooperative (715-796-7000) 14 days prior to removing existing control cabinets.

Arrange with the utility for a disconnection of the existing electrical service lateral and removal of the meter housing.

Carefully remove and stockpile all equipment at a location approved by the engineer. Place all equipment on blocks so as not to be in direct contact with the ground. The cabinet shall be made available for the Department to salvage. Properly dispose of any equipment that is not salvaged.

D Measurement
The department will measure Remove Existing Lighting Control Cabinet by the unit acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.003	Remove Existing Lighting Control Cabinet	Each

Payment is full compensation for removals, backfill, and disposal as required above; and for furnishing all labor, tools, equipment and incidentals necessary to complete the contract work.

24. Removing R/W Marker, Item SPV.0060.004.

A Description
This special provision describes removing existing right of way markers prior to site grading activities.

B (Vacant)

C Construction
Remove and dispose of all existing right of way irons and marker posts, prior to site grading activities. Document existing right of way locations, and confirm with the engineer prior to removing.

D Measurement
The department will measure Removing R/W Marker by each unit acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.004	Removing R/W Marker	Each

Payment is full compensation for removing right of way markers, irons, and disposing of all materials.

25. Removing Apron Endwalls, Item SPV.0060.005.

A Description
This special provision describes removing apron endwalls from existing culvert pipes.

B (Vacant)

C Construction
Remove and dispose of apron endwalls from existing culvert pipes, prior to installing pipe extensions and new endwalls.

D Measurement
The department will measure Removing Apron Endwalls by each unit acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.005	Removing Apron Endwalls	Each

Payment is full compensation for removing apron endwalls and disposing of all materials.

26. Temporary Inlet Cover, Item SPV.0060.006.

A Description
This special provision describes furnishing, installing, adjusting and removing a temporary inlet and/or casting, as shown on the plans and as hereinafter provided.

B Materials
Furnish inlets and castings conforming to the requirements of standard spec 611.2, Materials. Furnish inlet casting, or multiple castings as appropriate to match surroundings during multiple stages.

C Construction
Install and adjust and remove the inlet castings as shown on the plans and as required to maintain drainage during all stages of construction. Work required under this bid item may include the following:

- Furnish, install, adjust as needed and remove an inlet and casting in a temporary location.
- Furnish, install, adjust as needed and remove an inlet casting on an inlet listed as a permanent structure.

Clean out any permanent structures used as temporary inlets prior to installation of the permanent casting.

D Measurement
The department will measure Temporary Inlet Cover as each individual unit, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0060.006	Temporary Inlet Cover	Each

Payment is full compensation for installing and adjusting each cover; for providing new, inlets, covers, including frames, grates, lids and all other required materials; and for removing and disposing of the temporary inlet and casting.

27. Install Cat-5e Cable, Item SPV.0090.001.

A Description
This special provision describes the transporting and installing of department furnished Cat-5e Cable.

B Materials
Pick up the department furnished Cat-5e cable at the department's electrical shop. Notify the department's electrical field unit at to make arrangements for picking up the department furnished materials at least five working days prior to material pick-up.

Furnish all other necessary materials (ethernet repeaters, connectors including wire nuts, splice kits, tape, insulating varnish or sealant and ground lug fasteners) ensuring all materials are in compliance with the WisDOT Qualified Electrical Products List.

C Construction

Install all cables per the cable routing plan. Neatly coil a minimum of 15-feet of extra cable in the traffic signal cabinet. Provide an extra 6-foot loop of cable in each pull box and an extra 10-feet at the top of the wood pole.

Install the Cat-5e Cable from the video detection cameras and microwave detectors to the cabinet. All cable runs less than or equal to 330-feet shall be installed continuously (without splices) from the traffic signal cabinet to the units plus additional length for coils left in pull boxes or bases. Cable runs longer than 330-feet require an ethernet repeater; install the cable continuously (without splices) from the traffic signal cabinet to the pull box, or enclosure at top of wood pole. Install the repeater and install the cable continuously (without splices) from the repeater to the units.

All open field ends shall be taped and covered with a sealant in accordance to standard specification 655.3.1. Terminate the ends of the cable and connect the cable to the video detection cameras and microwave detectors per the manufacturer's specifications. Install the contractor furnished ethernet repeaters per the manufacturer's specifications.

Install all required equipment and make all final connections in the traffic signal cabinet. Mark the cabinet end of the Camera Power Cable and Cat-5e Cable appropriately to indicate the equipment label (i.e. V1, MD-SB2, etc.) in the traffic signal control cabinet.

D Measurement

Install Cat-5e Cable will be measured by the linear foot of cable, completed in place.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.001	Install Cat-5e Cable	LF

Payment is full compensation for transporting and installing the Cat-5e Cable, for making all connections; for furnishing and installing all ethernet repeaters and connectors, including wire nuts, splice kits, tape, insulating varnish or sealant and ground lug fasteners; and for testing.

28. Removing Electrical Conductors from Existing Conduit, Item SPV.0090.002.

A Description

This special provision describes removing electrical conductors from existing conduit and disposing them off of the project site.

B (Vacant)

C Construction
Wires shall be removed from the existing underground conduits as shown on the plans and as directed by the engineer. The engineer shall verify the extent of the wiring removal prior to disconnecting luminaires. Any necessary splices or disconnections shall be done as part of this pay item. Removed wires shall become property of the contractor and shall be disposed of off the project site.

D Measurement
The department will measure Removing Electrical Wires from Existing Conduit by linear feet of conduit from where wires shall be removed and disposed of, acceptably completed. The vertical length and wire slack shall be incidental to this pay item.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.002	Removing Electrical Conductors From Existing Conduit	LF

Payment is full compensation for removing electrical wires from conduits and disposal of all removed materials.

29. Concrete Curb & Gutter 36-Inch 4-Inch Sloped Type A Full Depth, Item SPV.0090.003.

A Description
This item shall be in accordance with the pertinent requirements of section 601 of the standard specifications and shall conform to the construction detail shown in the plans.

B Materials
The concrete curb and gutter shall be in accordance with the pertinent materials of section 601 of the standard specifications.

C Construction
Perform work in accordance with section 601 of the standard specifications.

D Measurement
The department will measure Concrete Curb and Gutter 36-Inch 4-Inch Sloped Type A Full Depth by the linear foot acceptably completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0090.003	Concrete Curb and Gutter 36-Inch 4-Inch Type A Full Depth	LF

Payment is full compensation for excavating and preparing the foundation; for providing all materials, including concrete, and expansion joints; placing, finishing, protecting and curing concrete; for sawing joints; and for furnishing all labor, equipment, tools, and incidentals necessary to complete the work.

30. Construction Staking Concrete Pavement Joint Layout (1540-04-73), Item SPV.0105.001.

A Description

This work shall consist of staking the location of all joints on the project, including mainline and intersections to accommodate the concrete paving operation. The contractor shall set all points necessary to establish the horizontal position of the dowel bar sets and saw joints in the concrete pavement, in accordance with the plans, the American Concrete Pavement Association Intersection Joint Layout Guidelines, or as directed by the engineer.

B (Vacant)

C Construction

Construction Staking, Concrete Pavement Joint Layout, shall be done in a manner to best-fit field conditions, traffic staging, the plan, and as directed by the engineer.

D Measurement

The department will measure Construction Staking, Concrete Pavement Joint Layout, as a single lump sum contract unit of work for construction staking, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.001	Construction Staking Concrete Pavement Joint Layout (1540-04-73)	LS

Payment is full compensation for survey work necessary to locate all dowel bar sets and saw joints on the mainline and intersections, for adjustments to match field conditions and traffic staging, for furnishing all labor, tools, stakes, flags, equipment, and incidentals necessary to complete the work.

31. Remove Traffic Signals (STH 65 & 70th Avenue), Item SPV.0105.002.

A Description

This special provision describes Remove Traffic Signal (STH 65 & 70th Avenue) according to the pertinent provisions of standard spec 204 and as hereinafter provided. Work under this

item also includes transporting or disposing of the existing equipment, including removal of existing electrical service as well as required utility coordination, as directed in this special provision. Removal of pull boxes and concrete bases at the above listed intersections shall be paid for separately.

B (Vacant)

C Construction
Prior to removal, coordinate with Arrange for the de-energizing of the traffic signals and removal of existing electrical service with the local electrical utility after receiving approval from the engineer that the existing traffic signals can be removed.

Notify the Northwest Region Traffic Section at least five working days prior to the removal of the traffic signals. Coordinate the salvaging of any materials requested by the Department in advance of removal activities. Complete the removal work as soon as possible following shut down of this equipment. Dispose of the underground signal cable and internal wiring off the right-of-way.

D Measurement
The department will measure Remove Traffic Signal (STH 65 & 70th Avenue) as a single lump sum unit of work for each intersection, acceptably completed.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.002	Remove Traffic Signals (STH 65 & 70th Avenue)	LS

Payment is full compensation for removing and disassembling traffic signals and incidentals necessary to complete the contract work.

32. Install State Furnished EVP System (STH 65 & 70th Avenue), Item SPV.0105.003.

A Description
This special provision describes installing a state furnished Emergency Vehicle Preemption (EVP) System at the location shown on the plans and as provided hereafter.

B Materials
Provide polycarbonate traffic signal face mounting brackets, reducing bushings, lock rings, pinnacles (cap), pole grommets (or chase nipple), and any incidental items necessary for installation not furnished by the department.

Card rack and discriminator equipment will be installed and supplied by the department.

C Construction

Mount detectors and confirmation lights on the luminaire arms as shown on the plans.

Mount the EVP receiver and confirmation light as shown on the plans. Install the cable from the traffic signal control cabinet to the EVP receiver. Include a six foot loop of cable in the pull box nearest the mounting pole. Allow three days for scheduling of test for final acceptance. The department will supply, install, and terminate the card rack and discriminator equipment in the cabinet.

D Measurement
The department will measure Install State Furnished EVP Equipment [Location] as a single lump sum unit of work, completed in accordance to the contract and accepted.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.003	Install State Furnished EVP System (STH 65 & 70th Avenue)	LS

Payment is full compensation for installing all EVP detector equipment and cable; furnishing and installing the mounting hardware and any miscellaneous items necessary to complete the entire system at the specified intersection; coordination with the department for delivery and installation of department furnished components necessary to compete the contract work.

33. Install State Furnished Signal Mounting Hardware (STH 65 & 70th Avenue), Item SPV.0105.004.

A Description
This special provision describes installing a state furnished Signal Mounting Hardware at the location shown on the plans and as provided hereafter.

B Materials
Load and transport materials furnished by the department from the department's designated location. Notify the department's Electrical Field Unit and make arrangements for picking up the department furnished materials at least five (5) working days prior to picking up the materials.

C Construction
Complete all work in accordance with requirements in 658.3.

D Measurement
The department will measure Install State Furnished Signal Mounting Hardware [Location] as a single lump sum unit of work, completed in accordance to the contract and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.004	Install State Furnished Signal Mounting Hardware (STH 65 & 70th Avenue)	LS

Payment is full compensation for coordination with the department for delivery and installation of department furnished components necessary to compete the contract work.

34. Transporting State Furnished Monotube Equipment (STH 65 & 70th Avenue), Item SPV.0105.005.

A Description

This special provision describes the transporting of state furnished materials for traffic signals and intersection lighting.

B Materials

Load and transport materials furnished by the department including: monotube poles, monotube arms, luminaire arms (to be installed on monotube assemblies), and required pole assembly hardware.

Pick up the department furnished materials at the department's designated location. Notify the department's Electrical Field Unit and make arrangements for picking up the department furnished materials at least five (5) working days prior to picking up the materials.

C (Vacant)

D Measurement

The department will measure Transporting State Furnished Monotube Equipment [Location] as a single lump sum unit of work in place and accepted.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.005	Transporting State Furnished Monotube Equipment (STH 65 & 70th Avenue)	LS

Payment is full compensation for loading and transporting the monotube poles and monotube arms and unloading at the project site. Installation of these materials is included under a separate pay item.

35. Furnish and Install Temporary EVP System, Item SPV.0105.006.

A Description

This special provision describes furnishing and installing a temporary Emergency Vehicle Preemption (EVP) System at the location shown in the plans and as provided hereafter.

B Materials
Furnish an EVP System compatible with the emergency vehicles in use by the Village of Roberts. Furnish any and all incidental items necessary for installation and operation.

C Construction
Mount the detectors on the temporary poles and spans as shown in the plans.

Periodic adjustments and/or moving of the temporary infrared EVP detectors may be required due to changes in traffic control, staging, or other construction changes.

In the event, at installation or as a result of a traffic staging change, a noticeable obstruction is present in line with the detector, advise the engineer before installation or upon the staging change.

Unless otherwise directed by the engineer, install the detector shield tube with the drain hole at the bottom.

Install the cable from the traffic signal control cabinet to the EVP receivers. There shall be no detector cable splices between the EVP receiver and the controller terminations.

Mark each lead appropriately as to which roadway approach it is associated.

The EVP as specified and shown in the plans shall be complete in place, tested, and in full operation during each stage of contruction.

D Measurement
The department will measure Furnish and Install Temporary EVP System as a single lump sum unit of work, completed in accordance to the contract and accepted.

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

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0105.006	Furnish and Install Temporary EVP System	LS

Payment is full compensation for furnishing, installing, and removing the temporary EVP system, including detectors, cabling, in-cabinet equipment, and mounting brackets; testing and setting up the system including any required coordination with the Village of Roberts.

36. Water for Seeded Areas, Item SPV.0120.001.

A Description
This special provision describes furnishing, hauling and applying water to seeded areas as directed by the engineer, and as hereinafter provided.

B Materials

When watering seeded areas, use clean water, free of impurities or substances that might injure the seed.

C Construction

If rainfall is not sufficient, keep all seeded areas thoroughly moist by watering or sprinkling. Water for 30 days after seed placement or as the engineer directs. Apply water in a manner to preclude washing or erosion. The topsoil shall not be left un-watered for more than 3 days during this 30-day period unless the engineer determines that it is excessively wet and does not require watering. The equivalent of one inch of rainfall per week shall be considered the minimum.

D Measurement

The department will measure Water for Seeded Areas by volume by the thousand gallon units (MGAL), acceptably completed. The department will determine volume by engineer-approved meters or from tanks of known capacity.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0120.001	Water for Seeded Areas	MGAL

Payment is full compensation for furnishing, hauling, and applying the water.