



Wisconsin Department of Transportation

January 7, 2016

Division of Transportation Systems Development

Bureau of Project Development
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NOTICE TO ALL CONTRACTORS:

Proposal #16: 8782-00-70, WISC 2016 013
STH 48 – STH 27/70
Strand Road – STH 27/70
CTH F
Sawyer County

Letting of January 12, 2016

This is Addendum No. 01, which provides for the following:

Special Provisions

Revised Special Provisions	
Article No.	Description
3	Prosecution and Progress
16	Geogrid, Item SPV.0180.01

Added Special Provisions	
Article No.	Description
17	QMP Pulverize and Relay Compaction, Item 374.1020.S

Schedule of Items

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
374.1020.S	QMP Pulverize and Relay Compaction	SY	0	62680	62680
628.2004	Erosion Mat Class I Type B	SY	0	500	500

Plan Sheets

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
13	Miscellaneous Quantities (Erosion Mat Class I Type B added to the Erosion Mat Items table)

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

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01

8782-00-70

January 7, 2016

Special Provisions

3. Prosecution and Progress.

Replace entire article language with the following:

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

Provide the time frame for construction of the project within the 2016 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

To revise the time frame, submit a written request to the engineer at least two weeks before the beginning of the intended time frame. 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.

It is anticipated the notice to proceed will be issued by March 15, 2016.

Fish Spawning

There shall be no instream disturbance of Hauer Creek as a result of construction activity under or for this contract, prior to May 1, or after September 1 of the construction year, in order to avoid adverse impacts upon the spawning of this Class I Trout water.

Any change to this limitation will require submitting a written request by the contractor to the engineer, subsequent review and concurrence by the Department of Natural Resources in the request, and final approval by the engineer. The approval will include all conditions to the request as mutually agreed upon by WisDOT and DNR.

Northern Long-eared Bat (*Myotis septentrionalis*)

Northern Long-eared Bats (NLEB) have the potential to inhabit the project limits because they roost in trees and structures (bridges, culverts, buildings). Roosts may not have been observed on this project, but conditions to support the species exist. The species and all active roosts are protected by the Federal Endangered Species Act.

In order to avoid adverse impacts upon the NLEBs, no clearing within the identified clearing and grubbing limits will be allowed from April 1 to September 30 or both dates inclusive.

If the required clearing and removal is not completed by March 31, the department will suspend all clearing and associated work directly impacted by clearing. The department will issue a notice to proceed with clearing and associated work directly impacted by clearing after consulting with the United States Fish and Wildlife Service (USFWS).

Submit a schedule and description of Clearing and/or Grubbing operations with the ECIP 14 days prior to any Clearing operations. The department will determine, based on schedule and scope of work, what additional erosion control measures shall be implemented prior to the start of Clearing operations, and list those additional measures in the ECIP.

Notify the Project Leader 14 days in advance of any work on box culverts or bridges between April 1 and September 30 to allow time for department to complete the Bat Presence Structure Inspection Form.

If bats or evidence of bats are not found during the inspection, construction may proceed.

If bats or evidence of bats are found during the inspection, construction activities affecting the structure's roosting potential must stop until the WisDOT Regional Environmental Coordinator completes consultation with the Wisconsin Department of Natural Resources (WDNR) and/or United States Fish and Wildlife Service (USFWS).

16. Geogrid, Item SPV.0180.01.

Replace entire article language with the following:

A Description

This special provision describes furnishing and installing geogrids for subgrade stabilization, base reinforcement, or pavement structure applications in accordance to the plans, standard spec 645, and as hereinafter provided.

B Materials

Provide geogrid that consists of either single or joined multiple layers of a uniform rectangular grid of bonded, formed, or fused polymer tensile strands crossing with a nominal right angle orientation. Utilize an insect, rodent, mildew, and rot resistant polymer grid consisting of polyester, polypropylene, polyamide, or polyethylene that maintains dimensional stability during handling, placing, and installation. Install geogrid at least 6.0 feet wide.

Provide geogrid that complies with the following physical properties:

Test	Method	Value ⁽¹⁾
Tensile Strength at 5% Strain, Both Principal Directions (lb/ft)	ASTM D 4595 ⁽²⁾	450 min.
Flexural Rigidity Both Principal Directions (mg-cm)	ASTM D 1388 ⁽³⁾	150,000 min.
Aperture Area (in ²)	Inside Measurement ⁽⁴⁾	5.0 max
Aperture Dimension (in)	Inside Measurement ⁽⁴⁾	0.5 min.

⁽¹⁾ All numerical values represent minimum/maximum average roll values, i.e. the average minimum test results on any roll in a lot should meet or exceed the minimum specified value.

⁽²⁾ The tensile strength (T) of a joined multi-layered geogrid shall be computed using the following equation:

$$T = n(f)t$$

where

n = the number of individual layers in the joined multi-layered geogrid,

t = the tensile strength of a single layer of geogrid as determined using testing method ASTM D4595,
and

f = reduction factor based on the number of layers comprising the multi-layered system and determined by the equation $f=1.00 - [0.04(n - 1)]$.

⁽³⁾ Values shall be determined by Option "A" (Cantilever Test) of testing method ASTM D1388 using test specimens that are 36 inches \pm 0.04 inch long. Test specimen widths for differing geogrids shall be variable and equal to one element plus $\frac{1}{2}$ the aperture width on both sides of that element. An element is defined as the minimum number of parallel strands that form a distinguishable repeating pattern.

⁽⁴⁾ Aperture Area and Aperture Dimension for joined multi-layer geogrids shall be determined based on measurement of a single layer of the geogrid.

Protect the geogrid from ultraviolet radiation and from damage due to shipping and handling. Keep the geogrid dry until it is installed. The geogrid rolls shall be clearly marked to identify the material contained.

Deliver a sample of the geogrid material to the engineer at least 10 days prior to its incorporation into the work. At the same time, furnish a manufacturer's Certified Report of Test or Analysis that verifies that the geogrid delivered for use on the work meets the above requirements. Samples of geogrid for test purposes will be obtained from the job site for each 10,000 square yards or portions thereof used on the contract.

C Construction

Prior to placement of the geogrid, bring the indicated placement surface to the required lines, grades, and dimensions as shown on the plans. Smooth and shape the surface to eliminate any rocks, clods, roots, or other items that may cause damage to the geogrid during placement or covering.

Place the geogrid on the prepared surface at the locations and to the limits as shown on the plans. After placement, pull the geogrid taut and secure it using pins, clips, staples, or other devices to prevent movement or displacement. Place parallel strips of geogrid with a minimum overlap of 24 inches. Lap butt joints between roll ends a minimum of 12 inches. Fasten all lapped sections together by using ties, straps, clips, or other devices to develop a secure joint that meets the approval of the engineer. Do not operate vehicles or construction equipment directly on the geogrid.

Cover small rips, tears, or defects in the geogrid with an additional section of geogrid; secure the additional geogrid in place so it overlaps the damaged area by at least 3 feet in all directions. Remove and replace geogrid sections with large rips, tears, defects, or other damage at the direction of the engineer.

After placement, cover the geogrid to the indicated depth with the type of material required on the plans or in the special provisions. Placing, spreading, and compacting of this material shall comply with the applicable sections of the standard specifications or special provisions except that the initial lift of material placed on the geogrid must be at least 4 inches. Place, spread, and compact the required backfill material so the geogrid is not displaced or damaged. The engineer may require changes in equipment and operations to prevent such damage or displacement.

D Measurement

The department will measure Geogrid Reinforcement by the square yard of surface area upon which the geogrid has been placed 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
SPV.0180.01	Geogrid	SY

Payment is full compensation for furnishing, transporting, and installing the geogrid and for furnishing and installing all devices and materials necessary to join or secure the geogrid in place.

Repair or replacement of damaged or defective geogrid is considered incidental to item.

17. QMP Pulverize and Relay Compaction, Item 374.1020.S.

A Description

- (1) This special provision modifies the compaction and density testing documentation requirements of work done under the Mill and Relay Pavement and Pulverize and Relay bid items. Conform to standard spec 325 and 330 as modified in this special provision.
- (2) Provide and maintain a quality management program. A quality management program is defined as all activities, including process control, inspection, sampling and testing, and necessary adjustments in the process related to construction of a milled and re-laid and pulverized and re-laid base which meets all the requirements of this provision.
- (3) Chapter 8 of the department’s Construction and Materials Manual (CMM) provides additional detailed guidance for QMP work and describes 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-rsrcs/rdwy/default.aspx>
- (4) This special provision applies to Mill and Relay and Pulverize and Relay material placed on both the mainline traveled way and its adjacent mainline shoulders in accordance to the typical finished sections. Unless otherwise specified by the contract, all Mill and Relay and Pulverize and Relay material placed on side roads, private and public entrances, ramps, tapers, turn lanes, and other locations not described as the mainline traveled way and its adjacent mainline shoulders is exempt from the compaction and density requirement modifications and testing contained within this special provision.

B (Vacant)

C Construction

C.1 General

Replace paragraph (4) of standard spec 325.3 and standard spec 330.3 with the following:

- (4) Re-laid material will be accepted for compaction on a target density lot basis. Compact the re-laid material to a minimum of 93.0% of the material target density. Ensure that adequate moisture is present during placement and compaction operations to prevent segregation and to help achieve compaction.

The material target density will be identified using the average of 10 random control strip wet density measurements as described in section C.2.5.1.

Field density tests will not be considered for lot acceptance on the basis of compaction under the requirements of this provision until the moisture content of the in-place material is within -2.0 or +4.0 percentage points of the average moisture content of the 10 density tests representing a control strip.

C.2 Quality Management Program

C.2.1 Quality Control Plan

- (1) Submit a comprehensive written quality control plan to the engineer no later than 10 business days before placement of material. Do not construct any re-laid base before the engineer reviews and accepts the plan. Construct the project as the plan provides.
- (2) Do not change the quality control plan without the engineer's review and acceptance. Update the plan with changes as they become effective. Provide a current copy of the plan to the engineer and post in the contractor's laboratory 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 process that will be used, and action time frames.
 3. An outline for resolving a process control problem. Include responsible personnel, required documentation, and appropriate communication steps.
 4. Location of the QC laboratory, retained sample storage, and other documentation.
 5. A summary of the locations and calculated quantities to be tested under this provision.
 6. A description of placement methods and operations. Including, but not limited to: staging, construction of an initial working platform, lift thicknesses, and equipment.

C.2.2 Pre-Placement Meeting

A minimum of two weeks prior to the start of placement of material, hold a pre-placement meeting at a mutually agreed upon time and location. Present the Quality Control Plan at the meeting. Attendance at the pre-placement meeting is mandatory for the project superintendent, quality control manager, project inspection and testing staff, all appropriate contractor personnel involved in the sampling, testing, and quality control including subcontractors, and the engineer or designated representatives.

C.2.3 Personnel

- (1) Perform the quality control sampling, testing, and documentation required under this provision using technicians certified by the Department's Highway Technician Certification Program (HTCP). Have a HTCP Nuclear Density Technician I, or ACT certified technician, perform field density and field moisture content testing.
- (2) If an ACT is performing sampling or testing, 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.

C.2.4 Equipment

- (1) Furnish the necessary equipment and supplies for performing quality control testing. Ensure that all testing equipment conforms to the equipment specifications applicable to the required testing methods. The engineer may inspect the measuring and testing devices to confirm both calibration and condition. Calibrate all testing equipment according to the CMM and maintain a calibration record at the laboratory.
- (2) Furnish nuclear gauges from the department's approved product list at:

<http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrcs/tools/appr-prod/default.aspx>

- (3) Ensure that the nuclear gauge manufacturer or an approved calibration service calibrates the gauge the same calendar year it is used on the project. Retain a copy of the calibration certificate with the gauge.
- (4) Conform to ASTM D 6938 and CMM 8.15 for density testing and gauge monitoring methods. Determine the moisture correction value as shown in CMM 8.15, except the one-point Proctor tests of the 5 random tests is not required. Determine natural moistures in the laboratory.
- (5) Perform nuclear gauge measurements using gamma radiation in the backscatter or direct transmission position. Backscatter may be used only if the material being tested cannot reliably maintain an undistorted direct transmission test hole. Direct transmission tests must be performed at the greatest possible probe depth of 2 inches, 4 inches, or 6 inches; not to exceed the depth of the compacted layer being tested. Perform each test for 4 minutes of nuclear gauge count time.

C.2.5 Contractor Testing

- (1) Perform compaction testing on the mainline re-laid material, as defined in section A paragraph (4). Perform the quality control sampling, testing, and documentation required under this provision using HTCP certified technicians as required in C.2.3.
- (2) Select test sites randomly using ASTM Method D3665. Do not test less than 1 ½ feet from the unsupported edge of the base layer.

C.2.5.1 Contractor Required Quality Control (QC) Testing

- (1) Conduct testing at a minimum frequency of one test per lot. A lot will consist of each 3000 SY, for each layer with a minimum lift thickness of 2", of Milled and Pulverized material re-laid, regardless of location. Each lot of in-place mainline re-laid material will be accepted for compaction when the lot field density meets the required minimum 93.0% of target density. Lots that don't achieve 93.0% of target density must be addressed and approved in accordance with C.2.7.
- (2) Notify the engineer, if a lot field density test falls below the required minimum value. Document and perform corrective action in accordance with C.2.7. Deliver documentation of all compaction testing results to the engineer at the time of testing.

C.2.5.1.1 Target Density Determination

- (1) Construct a control strip to identify the target wet density for the re-laid material. The control strip construction and density testing will occur under the direct observation and/or assistance of the department QV personnel.
- (2) Unless the Engineer approves otherwise, construct control strips to a minimum dimension of 300 feet long and one full lane width.
- (3) Completed control strips may remain in-place to be incorporated into the final roadway cross-section.
- (4) Construct additional control strips, at a minimum, when:
 1. The final layer thickness changes in excess of 2.0 inches.
 2. The percent of target density is less than 90% or exceeds 105.0%; and is outside the range of the 10 random measurements defining the control strip; on three consecutive density measurements.

- (5) Construct control strips using equipments and methods representative of the operations to be used to relay and compact the Milled and/or Pulverized material. Wet the base, as mutually agreed upon by the contractor and engineer, to obtain and/or maintain adequate moisture content to ensure proper compaction. Discontinue water placement if the base begins to exhibit signs of saturation or instability.
- (6) After compacting the control strip with a minimum of 2 passes, mark and take density measurements at 3 random locations, at least 1 ½ feet from the edge of the base. Subsequent density measurements will be taken at the same 3 locations.
- (7) After each subsequent pass of compaction equipment over the entirety of the control strip, take density measurements at the 3 marked locations. Continue compacting and testing until the increase in density measurements is less than 2.0 lb/ft³, or the density measurements begin to decrease.
- (8) Upon completion of control strip compaction, take 10 randomly located density measurements within the limits of the control strip, at least 1 ½ feet from the edge of the base. The final measurements recorded at the 3 locations under article paragraph (6) of this section may be included as 3 of the 10 measurements. Average the 10 measurements to obtain the control strip target density and target moisture.

C.2.5.2 Optional Contractor Assurance (CA) Testing

- (1) CA Testing is optional and is conducted to further validate QC testing. The contractor may submit recorded CA data to provide additional information for the following:
 1. Process control decisions
 2. Troubleshooting possible sampling, splitting, or equipment problems.

C.2.6 Department Testing

C.2.6.1 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.

C.2.6.2 Quality Verification (QV) Testing

- (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 C.2.3 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 at the minimum frequency of 30% of the contractor required density tests.
- (3) The department will locate nuclear density test locations independent of the contractor's QC work, collecting one test at each QV location.
- (4) The department will conduct QV tests with separate equipment from the contractor's QC tests. The department will use the same methods specified for QC testing.
- (5) The department will utilize contractor control strip target density testing results for determination of the material target density.
- (6) The department will assess QV test results by comparing to the appropriate specification limits. If QV test results conform to this special provision, the department will take no further

action. If QV test results are nonconforming, take corrective actions in accordance with C.2.7 until the requirements of this special provision are met. Differing QC and QV nuclear density values of more than 2.0 pcf will be investigated and resolved.

C.2.6.3 Independent Assurance (IA)

- (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. 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 C.2.6.4.

C.2.6.4 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 shall review the data, examine data reduction and analysis methods, evaluate sampling and testing methods/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 project personnel cannot resolve a dispute, and the dispute affects payment or could result in incorporating non-conforming product or work, 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.2.7 Corrective Action

- (1) Lots not achieving 93.0% of target density may be addressed and accepted for compaction in accordance with the requirements of this section. Unless otherwise stated, the actions taken to address an unacceptable lot must be applied to the entire lot.

Passing CA test results in accordance with section C.2.5.2, will reduce the limits of lot investigations and/or corrective actions.

- (2) At no additional cost to the department, investigate the moisture content of material in an unacceptable lot. Moisture content testing/samples collected under the QC and/or QV testing articles of this specification may be used to complete this investigation. Obtain moisture content readings in accordance with ASTM D 6938. Correct the moisture content with the moisture correction value using the moisture bias, as shown in CMM 8.15, except the one-point Proctor tests of the 5 random tests is not required.

- (3) Lots with moisture contents within -2.0 or +4.0 percentage points of the target moisture content for the control strip, and exhibiting no signs of deflection when subjected to loading by the heaviest roller used in the placement and compaction operations, shall be, at no additional cost to the department, compacted a minimum of one more pass using equipment and methods representative of the operations used to mill or pulverize and relay the material; and density tested at the same location (station and offset) as the failing QC and/or QV density tests. If the change in density exceeds 2.0 lb/ft³ continue subsequent compactive efforts and density testing on that lot, at no additional cost to the department. If the change in density is less than or equal to 2.0 lb/ft³, the lot is accepted as satisfying the compaction requirements of this provision.
- (4) Lots with moisture contents within -2.0 or +4.0 percentage points of the target moisture content for the control strip, and exhibiting signs of deflection when subjected to loading by the heaviest roller used in the placement and compaction operations, will be reviewed by the engineer. The engineer may request subgrade improvement methods, such as excavation below subgrade (EBS), installation of geotextile fabrics, installation of breaker run material or others to be completed and paid for as specified in standard spec 301.5; or may request, at no additional cost to the department, an additional pass of compactive effort using equipment and methods representative of the operations used to mill or pulverize, relay, and compact the base and density test.
 1. If, after an additional pass, the change in density at the same location (station and offset) as the failing QC and/or QV density tests exceeds 2.0 lb/ft³ in a lot continue subsequent compactive efforts and density testing on that lot, at no additional cost to the department. If the change in density at the same location (station and offset) as the failing QC and/or QV density tests is less than or equal to 2.0 lb/ft³, and subgrade improvement methods are not requested by the engineer, the lot is accepted as satisfying the compaction requirements of this provision.
 2. If subgrade improvement methods are requested by the engineer, upon completion, including compaction of the restored base material, conduct a density test within the improved subgrade limits. This density test result will replace the prior field density value. If the lot field density equals or exceeds 93.0% of target density the lot is accepted as satisfying the compaction requirements of this provision. If the lot field density fails to achieve 93.0% of target density, at no additional cost to the department, compact the lot a minimum of one more pass using equipment and methods representative of the operations used to mill or pulverize, relay, and compact the base; and density test at the same location (station and offset) as the failing QC and/or QV density tests. If the change in density exceeds 2.0 lb/ft³ continue subsequent compactive efforts and density testing on that lot, at no additional cost to the department. If the change in density is less than or equal to 2.0 lb/ft³, the lot is accepted as satisfying the compaction requirements of this provision.
- (5) Lots with moisture contents not within -2.0 or +4.0 percentage points of the target moisture content for the control strip shall receive contractor performed and documented corrective action, including additional density testing, at no additional cost to the department.
- (6) Density tests completed subsequent to any corrective action will replace previous field density test results for that lot. Continue corrective actions until 93.0% of target density is achieved or an alternate compaction acceptance criteria is met in accordance with this section.

D Measurement

- (1) The department will measure QMP Mill and Relay Compaction and QMP Pulverize and Relay Compaction by the square yard, acceptably completed.

- (2) The measured square yard of QMP Mill and Relay Compaction and QMP Pulverize and Relay Compaction equals the square yard of Mill and Relay and/or Pulverize and Relay acceptably completed; regardless of material location, density testing eligibility, or number of lifts with which it is completed.

E Payment

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

ITEM NUMBER	DESCRIPTION	UNIT
374.1020.S	QMP Pulverize and Relay Compaction	SY

- (3) Payment is full compensation for performing compaction testing; for sampling and laboratory testing; and for developing, completing, and documenting the compaction quality management program. The department will pay separately for Milling and Relaying or Pulverizing and Relaying material under the appropriate bid item.

Schedule of Items

Attached, dated January 7, 2016, are the revised Schedule of Items Page 9 and 10.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 13

END OF ADDENDUM

CURB & GUTTER

601.0553 CONCRETE CURB AND GUTTER 4'-INCH SLOPED 36'-INCH TYPE D

STATION	STATION	LOCATION	LF
31+00	32+41	CH F LT	141
65+94	68-28	CH F LT	234
66-75	72-50	CH F RT	575
82-50	86-00	CH F RT	350
84-36	88-30	CH F LT	94
89-33	94-75	CH F RT	542
PROJECT TOTALS:			2,885

STORM SEWER

522.1024 APRON ENDMATS FOR CULVERT PIPE REINFORCED CONCRETE 24'-INCH
608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24'-INCH

STATION	PIPE	ENDMATS	TYPE	LF	SY	RIPRAP	FABRIC
84+00	24"	1	CONCRETE	50	15	5	15
PROJECT TOTALS:				50	15	5	15

611.1253 CATCH BASINS 2.5x3'-FT
611.0615 INLET COVERS TYPE F
650.4000 CONSTRUCTION STAKING STORM SEWER

STATION	LOCATION	COVER	RIM	IOS	BOS	DEPTH	STAKING
84+00	19+0 RT	1	1315+00	1313+75	1310+46	3+25	2
TOTALS:							2

(1) - DEPTH IS MEASURED FROM TOP OF STRUCTURE (IOS) TO BOTTOM OF STRUCTURE (BOS)
(2) - INCLUDES CATCH BASIN AND ENDMAT STAKING

EROSION CONTROL

624.0100 WATER
625.0100 TOPSOIL
627.0200 MULCHING
629.0210 FERTILIZER TYPE B
630.0140 SEEDING MIXTURE NO. 20
630.0140 SEEDING MIXTURE NO. 40
630.0200 SEEDING TEMPORARY

STATION	STATION	WATER	TOPSOIL	MULCHING	FERTILIZER	SEEDING	SEEDING	SEEDING
16+50	221+78.9	--	37700	32195	30	1630	50	815
UN-DISTRIBUTED		200	300	2460	2	95	--	10
PROJECT TOTALS:			200	38000	34595	33	1685	50

(1) - USE FOR DUST CONTROL AND/OR WATERING SEEDED AREAS IN LAWNS. MORE LISTED ELSEWHERE.
(2) - USE WHERE A LAWN TYPE TURF IS NEEDED. ELIMINATE TEMPORARY SEED IN THESE AREAS.

628.1504 SILT FENCE
628.1520 SILT FENCE MAINTENANCE

STATION	STATION	LOCATION	FENCE	MAINT.
16+50	19+00	RT	260	760
25+00	30+00	LT	490	490
32+80	34+00	RT	110	110
33+00	40+70	RT	770	770
41+10	45+50	RT	440	420
45+90	48+50	RT	60	60
48+90	48+50	LT	260	260
49+30	49+30	RT	135	135
82+60	83+75	LT	140	140
84+10	85+50	LT	165	165
92+00	96+15	LT	200	200
95+80	97+80	RT	200	200
100+00	107+00	LT	750	750
111+00	113+50	LT	260	260
121+00	124+00	RT	300	300
124+00	126+00	LT	110	110
132+50	136+05	LT	360	360
133+00	136+00	RT	300	300
143+00	148+10	RT	510	510
144+50	147+10	LT	255	255
155+50	157+50	RT	190	190
161+00	164+10	RT	245	245
171+50	174+60	RT	300	300
172+50	175+00	LT	200	200
188+00	183+00	LT	500	500
191+00	195+10	LT	410	410
191+60	200+00	RT	825	825
204+50	206+00	LT	200	200
215+00	220+00	LT	540	540
216+00	219+50	RT	340	340
UN-DISTRIBUTED			380	380
PROJECT TOTALS:			13240	13240

628.7555 CULVERT PIPE CHECKS
628.7570 ROCK BAGS

LOCATION	CHECKS	BAGS
CULVERT PIPE CHECKS (1)	400	100
SILT FENCE WEEPS	--	100
PROJECT TOTALS:	400	100

(1) - ASSUMES 5 BAGS PLACED IN EACH ENDMAT. NONE IN HALER OR SAND CREEK CULVERTS.

Addendum No. 01
ID 8782-00-70
Revised Sheet 13
January 7, 2016

628.7504 TEMPORARY DITCH CHECKS

LOCATION	LF
17+00 LT	10
35+50 LT	50
49+50 - 51+50 RT	170
49+50 - 65+50 LT	170
59+50 - 66+50 RT	70
69+50 - 71+50 LT	70
73+50 - 81+50 RT	90
88+50 RT	10
149+50 - 154+50 LT	60
176+00 - 177+00 RT	100
UN-DISTRIBUTED	100
PROJECT TOTAL:	700

NOTE: ALL ITEMS LISTED ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

COUNTY: SAWYER

HWY: CTH F

PROJECT NO: 8782-00-70

MISCELLANEOUS QUANTITIES

SHEET 13

WISDOT/CADD SHEET 43

PLOT SCALE: 1:309.091

PLOT BY: crooyakkers

PLOT DATE: 1/6/2016

FILE NAME: P:\11516000\11516000\11516000\11516000\11516000.DGN

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160112016PROJECT(S):
8782-00-70FEDERAL ID(S):
WISC 2016013

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0860	650.6000 Construction Staking Pipe Culverts	14.000 EACH	.		.	
0870	650.9910 Construction Staking Supplemental Control (project) 01. 8782-00-70	LUMP	LUMP		.	
0880	650.9920 Construction Staking Slope Stakes	20,529.000 LF	.		.	
0890	690.0150 Sawing Asphalt	516.000 LF	.		.	
0900	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	1,200.000 HRS	5.00000		6000.00	
0910	ASP.1T0G On-the-Job Training Graduate at \$5. 00/HR	300.000 HRS	5.00000		1500.00	
0920	SPV.0060 Special 01. Temporary Water Diversion Hauer Cree Creek	1.000 EACH	.		.	
0930	SPV.0060 Special 02. Temporary Water Diversion Sand Creek	1.000 EACH	.		.	
0940	SPV.0180 Special 01. Geogrid	4,630.000 SY	.		.	
0950	374.1020.S QMP Pulverize and Relay Compaction	62,680.000 SY	.		.	

SCHEDULE OF ITEMS

REVISED:

CONTRACT:
20160112016

PROJECT(S):
8782-00-70

FEDERAL ID(S):
WISC 2016013

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0960	628.2004 Erosion Mat Class I Type B	500.000 SY	.		.	
	SECTION 0001 TOTAL				.	
	TOTAL BID				.	