

# CITY OF MARSHFIELD 2016 UTILITY CONSTRUCTION PROJECT

Sanitary Sewer Construction – Veterans Parkway (Heritage Drive to 34th Street)  
Plan No. 1645,  
Project No. 352225

Water Main Construction – Veterans Parkway (Heritage Drive to 34th Street)  
Plan No. 1645,  
Project No. 312224



---

# MARSHFIELD

---

► The City in the Center ◄

## Contract 2016-02

City Contact:  
Thomas R. Turchi, P.E.  
City Engineer  
City of Marshfield  
630 S. Central Ave.  
Suite 622  
Marshfield, WI 54449  
Email: [tom@ci.marshfield.wi.us](mailto:tom@ci.marshfield.wi.us)  
Web Site: [www.ci.marshfield.wi.us](http://www.ci.marshfield.wi.us)  
Phone: (715) 486-2034

**This Page Intentionally Left Blank**

# **SPECIAL PROVISIONS FOR CONTRACT 2016-02**

## **2016 UTILITY CONSTRUCTION PROJECT**

Sanitary Sewer Construction – Veterans Parkway (Heritage Drive to 34<sup>th</sup> Street)  
Plan No. 1645, Project No. 352225

Water Main Construction – Veterans Parkway (Heritage Drive to 34<sup>th</sup> Street)  
Plan No. 1645, Project No. 312224

**CITY OF MARSHFIELD  
WISCONSIN  
MARCH, 2016**

**CITY OF MARSHFIELD  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION  
630 SOUTH CENTRAL AVENUE  
SUITE 622  
MARSHFIELD, WISCONSIN 54449  
PHONE: 715.486.2034  
FAX: 715.384.7631  
[HTTP://CI.MARSHFIELD.WI.US](http://ci.marshfield.wi.us)**

**This Page Intentionally Left Blank**

**INDEX  
SPECIAL PROVISIONS  
CONTRACT 2016-02**

**OFFICIAL NOTICE TO BIDDERS ..... 5**

**SPECIAL INSTRUCTIONS TO PROSPECTIVE BIDDERS – PREQUALIFICATION ..... 7**

**WAGE RATES ..... 9**

**INFORMATION FOR BIDDING AND EXECUTION OF CONTRACT ..... 55**

**SPECIAL CONDITIONS ..... 61**

**PERMITS & APPROVALS ..... 87**

**TRUCK ROUTE MAP ..... 89**

**CERTIFICATE OF INSURANCE ..... 91**

**CONTRACT ..... 93**

**PERFORMANCE AND PAYMENT BOND ..... 113**

**PROPOSAL FOR CONTRACT 2013-01 ..... 117**

**PROPOSAL GUARANTEE ..... 139**

**FULL AND COMPLETE LIST OF SUBCONTRACTORS AND EQUIPMENT SUPPLIERS  
(TO BE USED FOR THIS PROJECT) ..... 141**

**This Page Intentionally Left Blank**

**OFFICIAL NOTICE TO BIDDERS**

**CITY OF MARSHFIELD**

**2016 UTILITY CONSTRUCTION PROJECT**

Sanitary Sewer Construction – Veterans Parkway (Heritage Drive to 34<sup>th</sup> Street), Plan No. 1645, Project No. 352225  
Water Main Construction – Veterans Parkway (Heritage Drive to 34<sup>th</sup> Street), Plan No. 1645, Project No. 312224

**CONTRACT 2016-02**

Sealed bids, containing proposals, will be received until 4:00 PM; Monday, May 2<sup>nd</sup>, 2016 in the Office of the City Engineer, for the construction of the projects listed herein. Said bid proposals will be opened and publicly read in the lobby on the 6<sup>th</sup> Floor of City Hall Plaza, 630 South Central Avenue at 4:05 PM on Monday, May 2<sup>nd</sup>, 2016.

Proposals will then be reviewed, tabulated, and submitted to the Board of Public Works at a special meeting on Tuesday, May 10<sup>th</sup>, 2016 for consideration and recommendation to the Common Council at their regular meeting on Tuesday, May 10<sup>th</sup>, 2016 for Award of Contract.

**ESTIMATE OF PRINCIPAL ITEMS**

- |    |                                      |                   |
|----|--------------------------------------|-------------------|
| 1. | 14" HDPE DIPS SDR 11 Watermain Bored | 2,285 Linear Feet |
| 2. | 8" Class 52 DIP Watermain            | 1,385 Linear Feet |
| 3. | 8" PVC Sanitary Sewer Main           | 1,435 Linear Feet |

No Proposal will be considered unless each is presented under sealed cover and is accompanied by a cashier's check or bid bond satisfactory to the Board of Public Works in an amount equal to five percent (5%) of the total amount of the Proposal and made out in the name of the City of Marshfield, Wisconsin, as a guarantee that, if the bid is accepted, the Bidder will execute and file the proper Contract and Performance Bond within ten (10) days after award of the bid. Upon the execution of the Contract by the City, the check will be returned.

No Proposal may be withdrawn by the Bidder for a period of thirty (30) days following the date of the bid opening, within which time the Contract will be awarded by the Common Council.

Complete digital project bidding documents are available at [www.questcdn.com](http://www.questcdn.com). You may download the digital plan documents for \$50.00 by inputting Quest project #4419472 on the website's Project Search page. Please contact QuestCDN.com at 952-233-1632 or [info@questcdn.com](mailto:info@questcdn.com) for assistance in free membership registration, downloading and working with this digital project information. Bidding documents may be examined at the offices of City of Marshfield, Engineering Division, 630 S Central Avenue, Marshfield, WI 54449.

An optional paper set of project documents (Plans and Specifications), as prepared by the Engineering Division, are available from the Office of the City Engineer for a nonrefundable price of \$200.00 per set which includes applicable sales tax and shipping. Please make your check payable to City of Marshfield and send it to Suite 622, 630 South Central Avenue, Marshfield, WI 54449. Please contact us at (715)486-2034 if you have any questions.

An updated plan holders list will be available on the QuestCDN website.

The City of Marshfield, Wisconsin reserves the right to accept or reject any or all proposals, including, but not limited to, any or all proposals which are not responsive, to waive informalities in the bidding procedure and to award the Contract to the Bidder whom, in the opinion of said City, will be most advantageous to said City.

Letting of this Contract is subject to applicable provisions of the Wisconsin Statutes, including 66.0903 relative to minimum wage rates.

Prequalification of bidders for this type of work will be required by the Board of Public Works. A questionnaire form will be provided for Contractors intending to bid the work. This form is available on the City's website at [http://ci.marshfield.wi.us/departments/public\\_works/engineering/project\\_bidding.php](http://ci.marshfield.wi.us/departments/public_works/engineering/project_bidding.php). This form shall be mailed to the City of Marshfield Engineering Division.

ALL CONTRACTORS WHO INTEND TO BID THE CONSTRUCTION, AND ARE NOT PREQUALIFIED, MUST SUBMIT AN ANNUAL PREQUALIFICATION STATEMENT ON FORMS PROVIDED BY THE CITY, WHICH WILL DETERMINE THEIR QUALIFICATION FOR THE PROPOSED CONSTRUCTION. THESE STATEMENTS MUST BE RETURNED NO LATER **THAN 5:00 PM, Monday, April 25<sup>th</sup>, 2016**. FAILURE TO COMPLY WITH THE ABOVE SHALL RESULT IN THE REJECTION OF THE PROPOSAL SUBMITTED BY THE BIDDER.

BOARD OF PUBLIC WORKS  
MARSHFIELD, WISCONSIN  
Daniel G. Knoeck, Secretary

PUBLISH: News Herald – April 9<sup>th</sup> & April 23<sup>rd</sup>, 2016 – LEGAL

**SPECIAL INSTRUCTIONS TO PROSPECTIVE BIDDERS****CONTRACT 2016-02****2016 UTILITY CONSTRUCTION**

Sanitary Sewer Construction – Veterans Parkway (Heritage Drive to 34<sup>th</sup> Street)  
Plan No. 1645, Project No. 352225

Water Main Construction – Veterans Parkway (Heritage Drive to 34<sup>th</sup> Street)  
Plan No. 1645, Project No. 312224

Section 66.09 Wisconsin Statutes permits the prequalification of all Contractors interested in submitting a bid on a municipal project.

Prequalification of bidders for this type of work is required by the Board of Public Works. All Contractors that intend to bid the construction must submit an Annual Prequalification Statement on forms provided by the City which will determine their qualification for the proposed construction. These statements must be returned no later than 5:00 PM, Monday, April 25<sup>th</sup>, 2016. Failure to comply with the above shall result in the rejection of the proposal submitted by the bidder.

BOARD OF PUBLIC WORKS  
MARSHFIELD, WISCONSIN  
Daniel G. Knoeck, Secretary

**This Page Intentionally Left Blank**

State of Wisconsin Department of Workforce Development Equal Rights Division	<h2 style="margin: 0;">DEPARTMENTAL ORDER</h2>
<b>ISSUE DATE:</b> 3/23/2016	
<b>PROJECT:</b>	
VETERANS PARKWAY (HERITAGE DR. TO 34TH ST) CONTRACT 2016-02 MARSHFIELD CITY, WOOD COUNTY, WI Determination No. 201601009 [Owner Project No. 312224 & 352225]	
<b>PROJECT OWNER:</b>	<b>REQUESTER:</b>
THOMAS R TURCHI PE, CITY ENGINEER CITY OF MARSHFIELD 630 S CENTRAL AVE PO BOX 727 MARSHFIELD, WI 544490727	THOMAS R TURCHI PE, CITY ENGINEER CITY OF MARSHFIELD 630 S CENTRAL AVE PO BOX 727 MARSHFIELD, WI 544490727
<b>ADDITIONAL CONTACT:</b>	<b>NOTE:</b> The Requester must provide a copy of this Project Determination and enclosures to the Project Owner and Additional Contact.
<p>The department received an application for prevailing wage rate determination for the above-captioned project. The department conducted a survey to determine the prevailing wage rate for the trade(s) or occupation(s) needed to complete the project. The survey's findings appear in the attached project determination.</p> <p>If you believe that the wage rate for any trade or occupation does not accurately reflect the prevailing wage rate in the city, village or town where the project is located, you may ask the department to conduct an administrative review of such wage rate. You must submit this request in writing within 30 days from the date indicated above. Additionally, your request must include wage rate information from at least three similar projects in the city, village or town where the proposed project is located and on which some work has been performed by the contested trade(s) during the current survey period and was previously considered by the department in issuing the attached determination. See DWD 290.10 of the Wisconsin Administrative Code and either s. 66.0903(3)(br), Stats., or s. 103.49(3)(c), Stats., for a complete explanation of the administrative review process.</p> <p>Enclosures</p>	
<p>It is hereby ordered that the prevailing wage rates set forth in the attached project determination shall only be applicable to the above referenced project. This order is a <b>FINAL ORDER</b> of the department unless a timely request for an administrative review is filed with the department.</p> <p><b>ISSUED BY:</b></p> <p style="text-align: center;">                     Equal Rights Division                      Labor Standards Bureau                      Construction Wage Standards Section                      P.O. Box 8928, Madison, WI 53708-8928                      (608)266-6861                 </p> <p style="text-align: center;">                     Web Site: <a href="http://dwd.wisconsin.gov/er/">http://dwd.wisconsin.gov/er/</a> </p>	

**PREVAILING WAGE RATE DETERMINATION**

Issued by the State of Wisconsin  
 Department of Workforce Development  
 Pursuant to s. 66.0903, Wis. Stats.  
 Issued On: 3/23/2016

**DETERMINATION NUMBER:** 201601009

**EXPIRATION DATE:** Prime Contracts MUST Be Awarded or Negotiated On Or Before 12/31/2016. If NOT, You MUST Reapply.

**PROJECT NAME:** VETERANS PARKWAY (HERITAGE DR. TO 34TH ST) CONTRACT 2016-02  
 PROJECT NO: 312224 & 352225

**PROJECT LOCATION:** MARSHFIELD CITY, WOOD COUNTY, WI

**CONTRACTING AGENCY:** CITY OF MARSHFIELD

<b>CLASSIFICATION:</b>	Contractors are responsible for correctly classifying their workers. Either call the Department of Workforce Development (DWD) with trade or classification questions or consult DWD's Dictionary of Occupational Classifications & Work Descriptions on the DWD website at: <a href="http://dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm">dwd.wisconsin.gov/er/prevailing_wage_rate/Dictionary/dictionary_main.htm</a> .
<b>OVERTIME:</b>	<p>Time and one-half must be paid for all hours worked:</p> <ul style="list-style-type: none"> <li>- over 10 hours per day on prevailing wage projects</li> <li>- over 40 hours per calendar week</li> <li>- Saturday and Sunday</li> <li>- on all of the following holidays: January 1; the last Monday in May; July 4; the 1st Monday in September; the 4th Thursday in November; December 25;</li> <li>- The day before if January 1, July 4 or December 25 falls on a Saturday;</li> <li>- The day following if January 1, July 4 or December 25 falls on a Sunday.</li> </ul> <p>Apply the time and one-half overtime calculation to whichever is higher between the Hourly Basic Rate listed on this project determination or the employee's regular hourly rate of pay. Add any applicable Premium or DOT Premium to the Hourly Basic Rate before calculating overtime.</p> <p>A DOT Premium (discussed below) may supersede this time and one-half requirement.</p>
<b>FUTURE INCREASE:</b>	When a specific trade or occupation requires a future increase, you MUST add the full hourly increase to the "TOTAL" on the effective date(s) indicated for the specific trade or occupation.
<b>PREMIUM PAY:</b>	If indicated for a specific trade or occupation, the full amount of such pay MUST be added to the "HOURLY BASIC RATE OF PAY" indicated for such trade or occupation, whenever such pay is applicable.
<b>DOT PREMIUM:</b>	This premium only applies to highway and bridge projects owned by the Wisconsin Department of Transportation and to the project type heading "Airport Pavement or State Highway Construction." DO NOT apply the premium calculation under any other project type on this determination.
<b>APPRENTICES:</b>	Pay apprentices a percentage of the applicable journey person's hourly basic rate of pay and hourly fringe benefit contributions specified in this determination. Obtain the appropriate percentage from each apprentice's contract or indenture.
<b>SUBJOURNEY:</b>	Subjourney wage rates may be available for some of the trades or occupations indicated below with the exception of laborers, truck drivers and heavy equipment operators. Any employer interested in using a subjourney classification on this project MUST complete Form ERD-10880 and request the applicable wage rate from the Department of Workforce Development PRIOR to using the subjourney worker on this project.

This document **MUST BE POSTED** by the **CONTRACTING AGENCY** in at least one conspicuous and easily accessible place **on the site of the project**. A local governmental unit may post this document at the place normally used to post public notices if there is no common site on the project. This document **MUST** remain posted during the entire time any worker is employed on the project and **MUST** be physically incorporated into the specifications and all contracts and subcontracts. If you have any questions, please write to the Equal Rights Division, Labor Standards Bureau, P.O. Box 8928, Madison, Wisconsin 53708 or call (608) 266-6861.

---

**The following statutory provisions apply to local governmental unit projects of public works and are set forth below pursuant to the requirements of s. 66.0903(8), Stats.**

**s. 66.0903 (1) (f) & s. 103.49 (1) (c) "PREVAILING HOURS OF LABOR"** for any trade or occupation in any area means 10 hours per day and 40 hours per week and may not include any hours worked on a Saturday or Sunday or on any of the following holidays:

1. January 1.
2. The last Monday in May.
3. July 4.
4. The first Monday in September.
5. The 4th Thursday in November.
6. December 25.
7. The day before if January 1, July 4 or December 25 falls on a Saturday.
8. The day following if January 1, July 4 or December 25 falls on a Sunday.

**s. 66.0903 (10) RECORDS; INSPECTION; ENFORCEMENT.**

(a) Each contractor, subcontractor, or contractor's or subcontractor's agent performing work on a project of public works that is subject to this section shall keep full and accurate records clearly indicating the name and trade or occupation of every person performing the work described in sub. (4) and an accurate record of the number of hours worked by each of those persons and the actual wages paid for the hours worked.

**s. 66.0903 (11) LIABILITY AND PENALTIES.**

(a) 1. Any contractor, subcontractor, or contractor's or subcontractor's agent who fails to pay the prevailing wage rate determined by the department under sub. (3) or who pays less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor is liable to any affected employee in the amount of his or her unpaid wages or his or her unpaid overtime compensation and in an additional amount as liquidated damages as provided under subd. 2., 3., whichever is applicable.

2. If the department determines upon inspection under sub. (10) (b) or (c) that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the department shall order the contractor to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages within a period specified by the department in the order.

3. In addition to or in lieu of recovering the liability specified in subd. 1. as provided in subd. 2., any employee for and in behalf of that employee and other employees similarly situated may commence an action to recover that liability in any court of competent jurisdiction. If the court finds that a contractor, subcontractor, or contractor's or subcontractor's agent has failed to pay the prevailing wage rate determined by the department under sub. (3) or has paid less than 1.5 times the hourly basic rate of pay for all hours worked in excess of the prevailing hours of labor, the court shall order the contractor, subcontractor, or agent to pay to any affected employee the amount of his or her unpaid wages or his or her unpaid overtime compensation and an additional amount equal to 100 percent of the amount of those unpaid wages or that unpaid overtime compensation as liquidated damages.

5. No employee may be a party plaintiff to an action under subd. 3. unless the employee consents in writing to become a party and the consent is filed in the court in which the action is brought. Notwithstanding s. 814.04 (1), the court shall, in addition to any judgment awarded to the plaintiff, allow reasonable attorney fees and costs to be paid by the defendant.

**BUILDING OR HEAVY CONSTRUCTION**

Includes sheltered enclosures with walk-in access for the purpose of housing persons, employees, machinery, equipment or supplies and non-sheltered work such as canals, dams, dikes, reservoirs, storage tanks, etc. A sheltered enclosure need not be "habitable" in order to be considered a building. The installation of machinery and/or equipment, both above and below grade level, does not change a project's character as a building. On-site grading, utility work and landscaping are included within this definition. Residential buildings of four (4) stories or less, agricultural buildings, parking lots and driveways are NOT included within this definition.

**SKILLED TRADES**

Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		HOURLY BASIC RATE OF PAY	HOURLY FRINGE BENEFITS	TOTAL
CODE	TRADE OR OCCUPATION	\$	\$	\$
101	Acoustic Ceiling Tile Installer	32.72	17.67	50.39
102	Boilermaker	33.35	28.29	61.64
103	Bricklayer, Blocklayer or Stonemason Future Increase(s): Add \$1.45 on 06/06/2016 Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.40	18.80	51.20
104	Cabinet Installer	23.00	1.33	24.33
105	Carpenter Future Increase(s): Add \$1.42/hr on 6/1/2016. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.02	17.12	50.14
106	Carpet Layer or Soft Floor Coverer Future Increase(s): Add \$1.42/hr on 6/1/2016.	33.02	17.12	50.14
107	Cement Finisher	32.15	17.92	50.07
108	Drywall Taper or Finisher	32.72	8.84	41.56
109	Electrician	29.20	17.36	46.56
110	Elevator Constructor	46.05	27.09	73.14
111	Fence Erector	19.27	6.84	26.11
112	Fire Sprinkler Fitter	38.28	18.81	57.09
113	Glazier	29.35	18.10	47.45
114	Heat or Frost Insulator	30.34	21.86	52.20
115	Insulator (Batt or Blown)	23.62	11.55	35.17
116	Ironworker	32.50	20.58	53.08

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
117	Lather	32.72	16.00	48.72
118	Line Constructor (Electrical)	40.81	19.12	59.93
119	Marble Finisher	25.72	18.54	44.26
120	Marble Mason	32.15	17.66	49.81
121	Metal Building Erector	18.32	8.62	26.94
122	Millwright Future Increase(s): Add \$1.47/hr on 6/1/2016.	34.79	17.17	51.96
123	Overhead Door Installer	17.50	6.39	23.89
124	Painter	17.00	0.00	17.00
125	Pavement Marking Operator	30.00	18.81	48.81
126	Piledriver Future Increase(s): Add \$1.44/hr on 6/1/2016. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.56	17.12	50.68
127	Pipeline Fuser or Welder (Gas or Utility)	35.55	16.12	51.67
129	Plasterer Future Increase(s): Add \$1.45 on 06/06/2016	32.40	18.80	51.20
130	Plumber	36.75	16.32	53.07
132	Refrigeration Mechanic	36.75	16.32	53.07
133	Roofer or Waterproofer	23.00	5.50	28.50
134	Sheet Metal Worker	28.10	23.50	51.60
135	Steamfitter	36.75	16.32	53.07
137	Teledata Technician or Installer	22.50	12.74	35.24
138	Temperature Control Installer	33.86	15.23	49.09
139	Terrazzo Finisher	25.72	18.54	44.26
140	Terrazzo Mechanic Future Increase(s): Add \$1.45 on 06/06/2016	31.59	19.60	51.19
141	Tile Finisher	30.00	0.00	30.00
142	Tile Setter Future Increase(s): Add \$1.45/hr on 6/06/2016.	31.59	19.61	51.20

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
143	Tuckpointer, Caulker or Cleaner Future Increase(s): Add \$1.45 on 06/06/2016 Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	32.40	18.80	51.20
144	Underwater Diver (Except on Great Lakes)	36.74	16.00	52.74
146	Well Driller or Pump Installer Future Increase(s): Add \$1/hr on 6/1/2016; Add \$1/hr on 6/1/2017.	25.32	16.40	41.72
147	Siding Installer	18.00	9.53	27.53
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	39.57	25.80	65.37
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	32.65	15.52	48.17
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	28.57	13.71	42.28
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.53	13.55	40.08
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	25.00	12.55	37.55

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle Future Increase(s): Add \$1.15/hr on 6/1/2015. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	25.68	18.96	44.64
203	Three or More Axle	18.00	5.21	23.21
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	25.78	18.96	44.74
205	Pavement Marking Vehicle	18.00	5.21	23.21
207	Truck Mechanic	18.00	5.21	23.21

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer Future Increase(s): Add \$1.25/hr eff. 06/06/2016 Premium Increase(s): Add \$1.00/hr for certified welder and pipelayer; Add \$.25/hr for mason tender	25.06	15.63	40.69
302	Asbestos Abatement Worker	25.02	15.63	40.65
303	Landscaper	10.00	0.00	10.00
310	Gas or Utility Pipeline Laborer (Other Than Sewer and Water)	21.14	14.65	35.79
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	12.00	0.00	12.00
314	Railroad Track Laborer	15.00	4.83	19.83
315	Final Construction Clean-Up Worker	29.01	17.39	46.40

**HEAVY EQUIPMENT OPERATORS  
 SITE PREPARATION, UTILITY OR LANDSCAPING WORK ONLY**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
501	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Asphalt Milling Machine; Boring Machine (Directional, Horizontal or Vertical); Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Backhoe (Track Type) Having a Mfgr's Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Crane, Shovel, Dragline, Clamshells; Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Grader or Motor Patrol; Master Mechanic; Mechanic or Welder; Robotic Tool Carrier (With or Without Attachments); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Tractor (Scraper, Dozer, Pusher, Loader); Trencher (Wheel Type or Chain Type Having Over 8 Inch Bucket).	36.67	16.96	53.63
502	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Environmental Burner; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Jeep Digger; Screed (Milling Machine); Skid Rig; Straddle Carrier or Travel Lift; Stump Chipper; Trencher (Wheel Type or Chain Type Having 8 Inch Bucket & Under). Future Increase(s): Add \$1.60/hr on 6/3/2016.	34.69	20.38	55.07

<b>Fringe Benefits Must Be Paid On All Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		<b>\$</b>	<b>\$</b>	<b>\$</b>
503	Air Compressor (&/or 400 CFM or Over); Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Forklift; Generator (&/or 150 KW or Over); Greaser; High Pressure Utility Locating Machine (Daylighting Machine); Mulcher; Oiler; Post Hole Digger or Driver; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.60/hr on 6/3/2016.	34.69	20.38	55.07
504	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
505	Work Performed on the Great Lakes Including Crane or Backhoe Operator; Assistant Hydraulic Dredge Engineer; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder; 70 Ton & Over Tug Operator. Future Increase(s): Add \$1.25/hr on 1/1/2017. Premium Increase(s): Add \$.50/hr for Friction Crane, Lattice Boom or Crane Certification (CCO).	44.05	23.24	67.29
506	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery. Future Increase(s): Add \$1.25/hr on 1/1/2017.	39.20	23.09	62.29
507	Work Performed on the Great Lakes Including Deck Equipment Operator, Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	36.72	21.15	57.87

**HEAVY EQUIPMENT OPERATORS  
EXCLUDING SITE PREPARATION, UTILITY, PAVING LANDSCAPING WORK**

<b>Fringe Benefits Must Be Paid On All Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		<b>\$</b>	<b>\$</b>	<b>\$</b>
508	Boring Machine (Directional); Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): Add \$1.60/hr on 6/3/2016. Premium Increase(s):	37.67	20.38	58.05

**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
	Add \$.50/hr for >200 Ton; Add \$1/hr at 300 Ton; Add \$1.50/hr at 400 Ton; Add \$2/hr at 500 Ton & Over.			
509	Backhoe (Track Type) Having a Mfgr's Rated Capacity of 130,000 Lbs. or Over; Boring Machine (Horizontal or Vertical); Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With A Lifting Capacity Of 4,000 Lbs. & Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Pile Driver; Versi Lifts, Tri-Lifts & Gantrys (20,000 Lbs. & Over). Future Increase(s): Add \$1.60/hr on 6/3/2016. Premium Increase(s): Add \$.25/hr for all >45 Ton lifting capacity cranes.	36.42	20.38	56.80
510	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Dredge (NOT Performing Work on the Great Lakes); Forklift (Machinery Moving or Steel Erection, 25 Ft & Over); Gradall (Cruz-Aire Type); Hydro-Blaster (10,000 PSI or Over); Milling Machine; Skid Rig; Traveling Crane (Bridge Type). Future Increase(s): Add \$1.60/hr on 6/3/2016.	34.69	20.38	55.07
511	Air, Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Bulldozer or Endloader (Over 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Environmental Burner; Gantrys (Under 20,000 Lbs.); Grader or Motor Patrol; High Pressure Utility Locating Machine (Daylighting Machine); Manhoist; Material or Stack Hoist; Mechanic or Welder; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tining or Curing Machine; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Future Increase(s): Add \$1.60/hr on 6/3/2016.	34.69	20.38	55.07

**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
512	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Grout Pump; Hoist (Tugger, Automatic); Industrial Locomotives; Jeep Digger; Lift Slab Machine; Mulcher; Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames. Future Increase(s): Add \$1.60/hr on 6/3/2016.	32.62	20.38	53.00
513	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Boatmen (NOT Performing Work on the Great Lakes); Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Elevator; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Forklift; Generator (&/or 150 KW or Over); Greaser; Heaters (Mechanical); Loading Machine (Conveyor); Oiler; Post Hole Digger or Driver; Prestress Machine; Pump (3 Inch or Over) or Well Points; Refrigeration Plant or Freeze Machine; Robotic Tool Carrier (With or Without Attachments); Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.60/hr on 6/3/2016.	31.99	20.38	52.37
514	Gas or Utility Pipeline, Except Sewer & Water (Primary Equipment). Future Increase(s): Add \$1/hr on 5/30/2016.	37.04	22.44	59.48
515	Gas or Utility Pipeline, Except Sewer & Water (Secondary Equipment).	33.82	20.30	54.12
516	Fiber Optic Cable Equipment	23.00	0.00	23.00

**SEWER, WATER OR TUNNEL CONSTRUCTION**

**Includes those projects that primarily involve public sewer or water distribution, transmission or collection systems and related tunnel work (excluding buildings).**

**SKILLED TRADES**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		<b>\$</b>	<b>\$</b>	<b>\$</b>
103	Bricklayer, Blocklayer or Stonemason	32.15	17.66	49.81
105	Carpenter	32.72	16.00	48.72
107	Cement Finisher Future Increase(s): Add \$1.75 on 6/1/16. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.40/hr when the Wisconsin Department of Transportation or responsible governing agency requires that work be performed at night under artificial illumination with traffic control and the work is completed after sunset and before sunrise.	35.97	17.85	53.82
109	Electrician Future Increase(s): Add \$1.60 on 6/1/16; Add \$1.70 on 6/1/17 Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	35.13	23.19	58.32
111	Fence Erector	19.27	6.84	26.11
116	Ironworker	32.50	20.58	53.08
118	Line Constructor (Electrical)	40.81	19.12	59.93
125	Pavement Marking Operator	30.00	18.81	48.81
126	Piledriver	33.24	16.00	49.24
130	Plumber Future Increase(s): Add \$1.50 on 6/1/16	39.95	19.45	59.40
135	Steamfitter	35.55	16.12	51.67
137	Teledata Technician or Installer	22.50	12.74	35.24
143	Tuckpointer, Caulker or Cleaner	32.15	17.66	49.81
144	Underwater Diver (Except on Great Lakes)	31.00	20.43	51.43
146	Well Driller or Pump Installer Future Increase(s): Add \$1/hr on 6/1/2016; Add \$1/hr on 6/1/2017.	25.32	16.40	41.72

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		\$	\$	\$
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	36.73	15.92	52.65
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	32.65	15.52	48.17
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	28.57	13.71	42.28
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.53	13.55	40.08
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.97	34.72

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		\$	\$	\$
201	Single Axle or Two Axle	19.00	0.00	19.00
203	Three or More Axle	19.00	0.00	19.00
204	Articulated, Euclid, Dumptor, Off Road Material Hauler	33.69	19.78	53.47
205	Pavement Marking Vehicle	19.00	0.00	19.00
207	Truck Mechanic	19.00	0.00	19.00

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>				
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
		\$	\$	\$
301	General Laborer	26.09	14.76	40.85
303	Landscaper	41.00	0.00	41.00
304	Flagperson or Traffic Control Person	19.31	10.45	29.76
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	12.00	0.00	12.00
314	Railroad Track Laborer	15.00	4.83	19.83

**HEAVY EQUIPMENT OPERATORS  
 SEWER, WATER OR TUNNEL WORK**

**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
521	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Master Mechanic; Pile Driver. Premium Increase(s): Add \$.25/hr for operating tower crane.	38.09	20.80	58.89
522	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump (Over 46 Meter), Concrete Conveyor (Rotec or Bidwell Type); Concrete Spreader & Distributor; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Dredge (NOT Performing Work on the Great Lakes); Milling Machine; Skid Rig; Telehandler; Traveling Crane (Bridge Type). Future Increase(s): Add \$1.60/hr on 6/3/2016.	35.22	20.38	55.60
523	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Boring Machine (Horizontal or Vertical); Bulldozer or Endloader (Over 40 hp); Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Concrete Pump (46 Meter & Under), Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Manhoist; Material or Stack Hoist; Mechanic or Welder; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yd or More Capacity; Screed (Milling Machine); Sideboom; Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Tractor or Truck Mounted Hydraulic Crane (10 Tons or Under); Trencher (Wheel Type or Chain Type Having Over 8-Inch Bucket). Future Increase(s): Add \$1.60/hr on 6/3/2016.	34.69	20.38	55.07

**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
524	Backfiller; Broom or Sweeper; Bulldozer or Endloader (Under 40 hp); Compactor (Self-Propelled 85 Ft Total Drum Width & Over, or Tractor Mounted, Towed & Light Equipment); Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Finishing Machine (Road Type); Environmental Burner; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Hoist (Tugger, Automatic); Grout Pump; Jeep Digger; Lift Slab Machine; Mulcher; Power Subgrader; Pump (3 Inch or Over) or Well Points; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Screw or Gypsum Pumps; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Stump Chipper; Tining or Curing Machine; Trencher (Wheel Type or Chain Type Having 8-Inch Bucket & Under); Winches & A-Frames.	33.69	21.75	55.44
525	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Compactor (Self-Propelled 84 Ft Total Drum Width & Under, or Tractor Mounted, Towed & Light Equipment); Crusher, Screening or Wash Plant; Farm or Industrial Type Tractor; Fireman (Asphalt Plant NOT Performing Work on the Great Lakes); Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Loading Machine (Conveyor); Post Hole Digger or Driver; Refrigeration Plant or Freeze Machine; Rock, Stone Breaker; Skid Steer Loader (With or Without Attachments); Vibratory Hammer or Extractor, Power Pack.	30.19	22.06	52.25
526	Boiler (Temporary Heat); Forklift; Greaser; Oiler.	30.99	19.78	50.77
527	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
528	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder.	41.65	21.71	63.36
529	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or More); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	22.24	22.79	45.03
530	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under), Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	36.72	21.15	57.87

**LOCAL STREET OR MISCELLANEOUS PAVING CONSTRUCTION**

Includes roads, streets, alleys, trails, bridges, paths, racetracks, parking lots and driveways (except residential or agricultural), public sidewalks or other similar projects (excluding projects awarded by the Wisconsin Department of Transportation).

**SKILLED TRADES**

CODE	TRADE OR OCCUPATION	Fringe Benefits Must Be Paid On <u>All</u> Hours Worked		
		HOURLY BASIC RATE OF PAY \$	HOURLY FRINGE BENEFITS \$	TOTAL \$
103	Bricklayer, Blocklayer or Stonemason	32.15	17.66	49.81
105	Carpenter Future Increase(s): Add \$1.42/hr on 6/1/2016. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.02	17.12	50.14
107	Cement Finisher Future Increase(s): Add \$1.50 on 05/30/2016;	27.36	20.44	47.80
109	Electrician	34.82	20.39	55.21
111	Fence Erector	19.27	6.84	26.11
116	Ironworker	32.50	20.58	53.08
118	Line Constructor (Electrical)	40.81	19.12	59.93
124	Painter	17.00	0.00	17.00
125	Pavement Marking Operator	30.00	18.81	48.81
126	Piledriver Future Increase(s): Add \$1.44/hr on 6/1/2016. Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	33.56	17.12	50.68
133	Rofer or Waterproofor	23.00	5.50	28.50
137	Teledata Technician or Installer	22.50	12.74	35.24
143	Tuckpointer, Caulker or Cleaner	32.15	17.66	49.81
144	Underwater Diver (Except on Great Lakes)	36.74	16.00	52.74
150	Heavy Equipment Operator - ELECTRICAL LINE CONSTRUCTION ONLY	36.73	15.92	52.65
151	Light Equipment Operator -ELECTRICAL LINE CONSTRUCTION ONLY	32.65	15.52	48.17
152	Heavy Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	28.57	13.71	42.28

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
153	Light Truck Driver - ELECTRICAL LINE CONSTRUCTION ONLY	26.53	13.55	40.08
154	Groundman - ELECTRICAL LINE CONSTRUCTION ONLY	21.75	12.97	34.72

**TRUCK DRIVERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
201	Single Axle or Two Axle	25.28	18.31	43.59
203	Three or More Axle Premium Increase(s): DOT PREMIUM: Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day.	25.78	18.96	44.74
204	Articulated, Euclid, Dumptor, Off Road Material Hauler Future Increase(s): Add \$1.60/hr on 6/3/2016.	34.69	20.38	55.07
205	Pavement Marking Vehicle	25.28	18.31	43.59
206	Shadow or Pilot Vehicle	25.28	18.31	43.59
207	Truck Mechanic	25.28	18.31	43.59

**LABORERS**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
301	General Laborer	19.31	16.35	35.66
303	Landscaper Future Increase(s): Add \$1.00/hr eff. 06/01/2016; Add \$1.00/hr eff. 06/01/2017 Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.25/hr for work on projects involving temporary traffic control setup, for lane and shoulder closures, when work under artificial illumination conditions is necessary as required by the project provisions (including prep time prior to and/or cleanup after such time period).	30.67	15.65	46.32
304	Flagperson or Traffic Control Person	19.31	10.45	29.76
311	Fiber Optic Laborer (Outside, Other Than Concrete Encased)	12.00	0.00	12.00

314	Railroad Track Laborer	15.00	4.83	19.83
-----	------------------------	-------	------	-------

**HEAVY EQUIPMENT OPERATORS  
CONCRETE PAVEMENT OR BRIDGE WORK**

**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
541	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self-Erecting Tower Crane With a Lifting Capacity Of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic. Future Increase(s): Add \$1.60/hr on 6/3/2016. Premium Increase(s): Add \$.50/hr for >200 Ton; Add \$1/hr at 300 Ton; Add \$1.50/hr at 400 Ton; Add \$2/hr at 500 Ton & Over.	37.67	20.38	58.05
542	Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity of 4,000 Lbs. & Under; Crane, Tower Crane Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver. Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: <a href="http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevailing-wage-compliance.aspx">http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevailing-wage-compliance.aspx</a> .	37.77	21.85	59.62

**Fringe Benefits Must Be Paid On All Hours Worked**

<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>HOURLY BASIC RATE OF PAY</b> \$	<b>HOURLY FRINGE BENEFITS</b> \$	<b>TOTAL</b> \$
543	Air Track, Rotary or Percussion Drilling Machine &/or Hammers, Blaster; Automatic Subgrader (Concrete); Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. & Under); Boring Machine (Directional, Horizontal or Vertical); Bridge (Bidwell) Paver; Bulldozer or Endloader; Concrete Batch Plant, Batch Hopper; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Bump Cutter, Grinder, Planing or Grooving Machine; Concrete Conveyor System; Concrete Laser/Screed; Concrete Paver (Slipform); Concrete Pump, Concrete Conveyor (Rotec or Bidwell Type); Concrete Slipform Placer Curb & Gutter Machine; Concrete Spreader & Distributor; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Grout Pump; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Straddle Carrier or Travel Lift; Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches & A-Frames.	22.24	22.79	45.03
544	Backfiller; Belting, Burlap, Texturing Machine; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Self Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler; Tining or Curing Machine. Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017. Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day & Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: <a href="http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevailing-wage-compliance.aspx">http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevailing-wage-compliance.aspx</a> .	37.27	21.85	59.12
545	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Concrete Proportioning Plant; Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack.	31.62	19.78	51.40
546	Fiber Optic Cable Equipment.	23.00	0.00	23.00

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
547	Work Performed on the Great Lakes Including Diver; Wet Tender or Hydraulic Dredge Engineer.	41.65	21.71	63.36
548	Work Performed on the Great Lakes Including 70 Ton & Over Tug Operator; Assistant Hydraulic Dredge Engineer; Crane or Backhoe Operator; Hydraulic Dredge Leverman or Diver's Tender; Mechanic or Welder. Future Increase(s): Add \$1.25/hr on 1/1/2017. Premium Increase(s): Add \$.50/hr for Friction Crane, Lattice Boom or Crane Certification (CCO).	44.05	23.24	67.29
549	Work Performed on the Great Lakes Including Deck Equipment Operator or Machineryman (Maintains Cranes Over 50 Tons or Backhoes 115,000 Lbs. or more); Tug, Launch or Loader, Dozer or Like Equipment When Operated on a Barge, Breakwater Wall, Slip, Dock or Scow, Deck Machinery.	22.24	22.79	45.03
550	Work Performed on the Great Lakes Including Deck Equipment Operator; Machineryman or Fireman (Operates 4 Units or More or Maintains Cranes 50 Tons or Under or Backhoes 115,000 Lbs. or Under); Deck Hand, Deck Engineer or Assistant Tug Operator; Off Road Trucks - Great Lakes ONLY.	36.72	21.15	57.87

**HEAVY EQUIPMENT OPERATORS  
ASPHALT PAVEMENT OR OTHER WORK**

<b>Fringe Benefits Must Be Paid On <u>All</u> Hours Worked</b>		<b>HOURLY BASIC RATE OF PAY</b>	<b>HOURLY FRINGE BENEFITS</b>	<b>TOTAL</b>
<b>CODE</b>	<b>TRADE OR OCCUPATION</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
551	Crane, Tower Crane, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of Over 100 Tons, Self Erecting Tower Crane With a Lifting Capacity of Over 4,000 Lbs., Crane With Boom Dollies; Crane, Tower Crane, Pedestal Tower or Derrick, With Boom, Leads and/or Jib Lengths Measuring 176 Ft or Over; Master Mechanic.	36.67	19.78	56.45

**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
552	<p>Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of 130,000 Lbs. or Over; Caisson Rig; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With or Without Attachments, With a Lifting Capacity of 100 Tons or Under, Self-Erecting Tower Crane With a Lifting Capacity Of 4,000 Lbs. &amp; Under; Crane, Tower Crane, Portable Tower, Pedestal Tower or Derrick, With Boom, Leads &amp;/or Jib Lengths Measuring 175 Ft or Under; Dredge (NOT Performing Work on the Great Lakes); Licensed Boat Pilot (NOT Performing Work on the Great Lakes); Pile Driver.</p> <p>Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.</p> <p>Premium Increase(s): DOT PREMIUMS: 1) Pay two times the hourly basic rate on Sunday, New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day &amp; Christmas Day. 2) Add \$1.50/hr night work premium. See DOT'S website for details about the applicability of this night work premium at: <a href="http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevailing-wage-compliance.aspx">http://wisconsin.gov/Pages/doing-bus/civil-rights/labornwage/prevailing-wage-compliance.aspx</a>.</p>	37.77	21.85	59.62
553	<p>Air, Track, Rotary or Percussion Drilling Machine &amp;/or Hammers, Blaster; Asphalt Heater, Planer &amp; Scarifier; Asphalt Milling Machine; Asphalt Screed; Backhoe (Track Type) Having a Mfgr.'s Rated Capacity of Under 130,000 Lbs., Backhoe (Mini, 15,000 Lbs. &amp; Under); Bituminous (Asphalt) Plant &amp; Paver, Screed; Boring Machine (Directional, Horizontal or Vertical); Bulldozer or Endloader; Concrete Breaker (Large, Auto, Vibratory/Sonic, Manual or Remote); Concrete Conveyor System; Concrete Laser/Screed; Concrete Slipform Placer Curb &amp; Gutter Machine; Crane (Carry Deck, Mini) or Truck Mounted Hydraulic Crane (10 Tons or Under); Crane With a Lifting Capacity of 25 Tons or Under; Forestry Equipment, Timbco, Tree Shear, Tub Grinder, Processor; Gradall (Cruz-Aire Type); Grader or Motor Patrol; Hydro-Blaster (10,000 PSI or Over); Loading Machine (Conveyor); Manhoist; Material or Stack Hoist; Mechanic or Welder; Milling Machine; Post Hole Digger or Driver; Railroad Track Rail Leveling Machine, Tie Placer, Extractor, Tamper, Stone Leveler or Rehabilitation Equipment; Roller (Over 5 Ton); Scraper (Self Propelled or Tractor Drawn) 5 cu yds or More Capacity; Shoulder Widener; Sideboom; Skid Rig; Stabilizing or Concrete Mixer (Self-Propelled or 14S or Over); Tractor (Scraper, Dozer, Pusher, Loader); Tractor or Truck Mounted Hydraulic Backhoe; Trencher (Wheel Type or Chain Type); Tube Finisher; Tugger (NOT Performing Work on the Great Lakes); Winches &amp; A-Frames.</p> <p>Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.</p>	30.20	20.65	50.85

**Fringe Benefits Must Be Paid On All Hours Worked**

<u>CODE</u>	<u>TRADE OR OCCUPATION</u>	<u>HOURLY BASIC RATE OF PAY</u> \$	<u>HOURLY FRINGE BENEFITS</u> \$	<u>TOTAL</u> \$
554	Backfiller; Broom or Sweeper; Compactor (Self-Propelled or Tractor Mounted, Towed & Light Equipment); Concrete Finishing Machine (Road Type); Environmental Burner; Farm or Industrial Type Tractor; Fireman (Asphalt Plant, Pile Driver & Derrick NOT Performing Work on the Great Lakes); Forklift; Greaser; Hoist (Tugger, Automatic); Jeep Digger; Joint Sawyer (Multiple Blade); Launch (NOT Performing Work on the Great Lakes); Lift Slab Machine; Mechanical Float; Mulcher; Power Subgrader; Robotic Tool Carrier (With or Without Attachments); Roller (Rubber Tire, 5 Ton or Under); Self-Propelled Chip Spreader; Shouldering Machine; Skid Steer Loader (With or Without Attachments); Telehandler. Future Increase(s): Add \$1.30/hr on 6/1/2016; Add \$1.25/hr on 6/1/2017.	30.20	20.65	50.85
555	Air Compressor (&/or 400 CFM or Over); Air, Electric or Hydraulic Jacking System; Augers (Vertical & Horizontal); Automatic Belt Conveyor & Surge Bin; Boiler (Temporary Heat); Crusher, Screening or Wash Plant; Generator (&/or 150 KW or Over); Heaters (Mechanical); High Pressure Utility Locating Machine (Daylighting Machine); Mudjack; Oiler; Prestress Machine; Pug Mill; Pump (3 Inch or Over) or Well Points; Rock, Stone Breaker; Screed (Milling Machine); Stump Chipper; Tank Car Heaters; Vibratory Hammer or Extractor, Power Pack. Future Increase(s): Add \$1.60/hr on 6/3/2016.	32.62	20.38	53.00
556	Fiber Optic Cable Equipment.	23.00	0.00	23.00

\*\*\*\*\* END OF RATES \*\*\*\*\*

**Department of Workforce Development**  
**Equal Rights Division**  
 P.O. Box 8928  
 Madison, WI 53708-8928  
 Telephone: (608) 266-6860  
 Fax: (608) 267-4592  
 TTY: (608) 264-8752



**Scott Walker, Governor**  
**Raymond Allen, Secretary**

The documents following the Prevailing Wage Rate Determination consist of twenty pages (including this one) of various forms/documents that will be used throughout the completion of the project. This prevailing wage rate determination and its underlying legal requirements outlined in the attached documents apply for the life of this project even though work on the project continues into 2017 or beyond. The chart below lists the form number, form/document name, the party who uses the document, and the document's number of pages. If you have any questions regarding these forms please call the Prevailing Wage Office at (608)266-6861.

<b>ERD Form Number</b>	<b>Form Name</b>	<b>Party Who Uses the Form</b>	<b>Pages</b>
	July 2015 description of recent changes to Wisconsin's prevailing wage laws resulting from enactment of the 2015-17 State Budget Bill.		1
	Prevailing Wage - Public Entity Project Owners	Explanation of project owner responsibilities	2
16056	Post the White Sheet	Contracting agency	1
10908	Consolidated List of Debarred Contractors	Any party contracting someone to complete work on a prevailing wage project	4
	Prevailing Wage – Contractors	Explanation of contractor responsibilities	2
7777	Disclosure of Ownership	Contractors that meet the criteria set out in (3)(A)&(B) of the form	1
5724	Prime Contractor Affidavit of Compliance	Prime contractor files with contracting agency upon completion of the work before receiving final payment	2
10584	Agent or Subcontractor Affidavit of Compliance	Subcontractors file with their awarding contractor upon completion of their work on the project before receiving final payment	2
10880	Request to Employ Subjourneyperson	Contractors wishing to employ a subjourneyperson(s)	1
	Additional General Prevailing Wage Law Information	General information for public entity or any other interested party	3

02/16/2016

---

***THE 2015-17 BUDGET BILL MADE SIGNIFICANT CHANGES TO WISCONSIN'S PREVAILING WAGE LAWS. HOWEVER, THOSE CHANGES DO NOT GO INTO EFFECT UNTIL JANUARY 1, 2017.***

During calendar year 2016, DWD will continue to enforce prevailing wage laws for local governmental unit and state agency public works projects under current prevailing wage laws.

2015 Wisconsin Act 55 (the budget bill) repealed the state prevailing wage law for **local governmental units** such as villages, towns, cities, school districts, or sewerage districts effective January 1, 2017. However, if a local governmental unit:

- issues a Request for Bids before January 1, 2017, for a project of public works that is subject to bidding or,
- enters into a contract before January 1, 2017, for a project of public works that is not subject to bidding,

then those public works projects are subject to the current prevailing wage law (§66.0903, Wis. Stats.) through the life of the project. Projects of public works with prevailing wage project determinations issued prior to 2017 continue to be subject to the current prevailing wage law through the life of the project even though the project may have work going on in 2017 or subsequent years.

Contractors working on local governmental unit projects with prevailing wage rate determinations must continue to pay employees the appropriate prevailing wage and maintain required prevailing wage payroll records. For instance, if a contractor is working in 2018 on a public works project with a project determination issued prior to 2017, then the contractor is required to comply with the "old" prevailing wage rate law (§66.0903, Wis. Stats.). After January 1, 2017, DWD will continue to enforce prevailing wage requirements for projects with DWD prevailing wage determinations issued under the "old" prevailing wage laws (§§ 66.0903 & 103.49, Wis. Stats.).

For new public works projects starting on January 1, 2017, state prevailing wage law will only apply to **state agency** and **state highway** projects. Prevailing wage rates applicable to state agencies will be those issued by the U.S. Department of Labor under the Davis-Bacon Act, 40 U.S.C. 3142. The Wisconsin Department of Administration will enforce the new state agency prevailing wage law (§16.856, Wis. Stats.) and the Wisconsin Department of Transportation will continue to enforce prevailing wage on state highway projects (under a law renumbered as §84.062, Wis. Stats.).

Department of Workforce Development  
 Equal Rights Division  
 P.O. Box 8928  
 Madison, WI 53708-8928  
 Telephone: (608) 266-6860  
 Fax: (608) 267-4592  
 TTY: (608) 264-8752



Scott Walker, Governor  
 Raymond Allen, Secretary

**PREVAILING WAGE – Public Entity Project Owners**

Any public works project that has a total estimated project cost that equals or exceeds single-trade or multiple-trade project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for most of these exclusions. The prevailing wage law that applies to local governmental units is §66.0903, Wis. Stats. The prevailing wage law that applies to state agencies is §103.49, Wis. Stats. The applicable administrative rules for all public entities are DWD 290 and DWD 294, Wis. Adm. Code.

**Thresholds**

A "single-trade project of public works" means a project in which a single trade accounts for 85% or more of the total labor cost of the project. The single trade threshold is \$48,000.

A "multiple-trade project of public works" means a project in which no single trade accounts for 85% or more of the total labor cost of the project.

(a) The multiple-trade threshold is \$100,000, unless a municipality falls under the description in (b).

(b) The multiple-trade threshold of \$234,000 applies to public works projects erected, constructed, repaired, remodeled, or demolished by a private contractor for •a city or village with a population less than 2500 or •a town.

A local governmental unit or state agency that has a public works project that equals or exceeds the prevailing wage thresholds must do all of the following:

- Request a prevailing wage rate determination for the project from DWD at least 30 days before soliciting bids or negotiating contracts. An Application for Prevailing Wage Rate Determination is available on the DWD website: [http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm)

To avoid waiting for a project determination use the on-line application system that permits the user to generate a determination immediately and save all documents in PDF form to the user's computer. Use this project determination on line application at the following address:

[http://dwd.wisconsin.gov/er/prevaling\\_wage\\_rate/pw\\_online\\_determinations.htm](http://dwd.wisconsin.gov/er/prevaling_wage_rate/pw_online_determinations.htm)

- Tell potential contractors the project is subject to state prevailing wage law when soliciting bids.
- Include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each prime contractor.
- Award contracts to contractors who do *not* appear on the “Consolidated List of Debarred Contractors.”
- Notify contractors that they are required to have a written substance abuse testing program in place that fulfills the requirements of §103.503, Wis. Stats., before commencing work on the prevailing wage project.
- Post the prevailing wage rate determination on the project site. (This document is often referred to as “the white sheet.”)
- Notify project contractors that if DWD finds that a contractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.
- Obtain an Affidavit of Compliance from each prime contractor before making final payment for the project.

If the total estimated cost of the project exceeds the prevailing wage thresholds, a local governmental unit or state agency also must obtain a prevailing wage rate determination under the following circumstances:

- when a completed facility is leased, purchased, lease-purchased or otherwise acquired by or dedicated to a public entity in lieu of the public entity contracting for the project,
- when one public entity does work for another public entity,
- when a *private* entity will construct a road, street, bridge, sanitary sewer or water main project and dedicate it to a local governmental unit or the state for its ownership or maintenance (except for some residential subdivisions).

For more information, visit the prevailing wage website: [http://dwd.wisconsin.gov/er/prevaling\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevaling_wage_rate/default.htm). For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

State of Wisconsin  
Department of Workforce Development  
Equal Rights Division  
Labor Standards Bureau

## **POST THE WHITE SHEET**

As the public entity receiving this prevailing wage rate determination, YOU ARE REQUIRED by law to post the prevailing wage rate determination (i.e., white sheet) in at least one conspicuous and easily accessible place on the project site that is available to all construction workers. The white sheet must remain posted from the onset of the project until all construction labor on the project has been completed.

[See, Wis. Admin. Code §DWD 290.12(1)]

Posting the white sheet inside the general contractor's trailer does not meet this requirement. That placement is not available/accessible to all workers and is not a location over which you have control.

If you have questions about posting, please call (608)266-6861 and ask for prevailing wage intake.

**Issue No. 67** **Consolidated List of Debarred Contractors** **March 1, 2016**  
**Page 1 of 4** **Prepared and Issued By**  
**State of Wisconsin - Department of Workforce Development**

This list has been prepared in accordance with the provisions of §§66.0903(12) and 103.49(7), Wis. Stats., and Chapter DWD 294 of the Wisconsin Administrative Code. All contractors on this list were found to have committed a "debarable offense" related to certain labor standard provisions determined or established for a state or local public works project. No state agency, local governmental unit or owner or developer may knowingly solicit bids from, negotiate with or award any contracts to or approve or allow any subcontracts with a debarred contractor, including all divisions, affiliates or other organizational elements of such contractor that are engaged in construction business activities, until the debarment is terminated. The name of each debarred contractor must remain on this list for a period of three (3) years from the termination date indicated below. The contractor is, however, only "debarred" from the "effective date" through the "termination date" indicated for that contractor. Questions regarding this list should be addressed to Jim Chiolino, Equal Rights Division, P. O. Box 8928, Madison, WI 53708 or call (608) 266-3345. Deaf, hearing or speech-impaired callers may contact the department by calling its TDD number (608) 264-8752.

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
A-1 Duran Roofing & Insulation Services, Inc.	3700 N Fratney St Milwaukee, WI 53212	11/1/14	10/31/17	1, 2 and 4	2011- 2012	None
Abel, Mike	8095 NW 64 <sup>th</sup> St Miami, FL 33166 See, Abel Electric, Inc					
Abel Electric, Inc	3385 Belmar Rd Green Bay, WI 54313	9/1/12	8/31/15	1	2011	None
Alpha Electric, LLC	350 Business Park Dr Sun Prairie, WI 53590	8/1/15	7/31/18	4	2014	None
Arnie Christiansen Mason Contractors, LLC	2304 65 <sup>th</sup> Dr Franksville, WI 53126	9/1/14	8/31/16	1, 2 and 4	2011	None
Atkins, Scott	See, Freedom Insulation, Inc					
Bickel, Matthew	See, Peshtigo Asphalt, Inc					
Boecker, Roger	See, R-Way Pumping, Inc					
Brechtl, Mark G	See, Ecodec, Inc					

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
Cargill Heating and Air Conditioning Company, Inc	3049 Edgewater La La Crosse, WI 54603	3/1/14	2/28/17	1 and 2	2011	None
Castlerock Commercial Construction, Inc	PO Box 11699 Milwaukee, WI 53211-0699	2/1/12	1/31/15	1, 2 and 4	2009 & 2010	None
Christiansen, Andy	See, Arnie Christiansen Mason Contractors, LLC					
Christiansen, Arnold	See, Arnie Christiansen Mason Contractors, LLC					
Darnick, Gregory L	See, Darnick Trucking, LLC					
Darnick Trucking, LLC	W914 County Rd V Berlin, WI 54923	11/1/14	10/31/15	1, 2 and 4	2012 & 2013	None
Dem/Ex Group, Inc	805 S Adams St Manito, IL 61546	12/1/11	11/30/14	1 and 2	2010	None
Duran, Bernardo	See, A-1 Duran Roofing & Insulation Services and RRS2 Inc					
Ecodec, Inc	5106 Wintergreen Dr Madison, WI 53704	10/1/14	9/30/17	1	2011 & 2012	None
Fisher, Ed &/or Fisher, Rhonda	See, Dem/Ex Group, Inc					
Freedom Insulation, Inc	117925 219th Ave Chippewa Falls, WI 54729	9/1/11	8/31/14	1	2008- 2010	None
Froode, Kathleen M	See, Masonry Specialists II, LLC					
Galstad, Michael E (aka Michael Earl Galstad)	See, Cargill Heating and Air Conditioning Company, Inc					

March 1, 2016

Page 3 of 4

Issue No. 67

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
Gjolaj, Ded	See, Horizon Bros Painting Corp					
Grade A Construction, Inc	157 Enterprise Rd Delafield, WI 53018	1/1/16	12/31/19	1, 2 and 4	2014	None
Horizon Bros Painting Corp	1053 Kendra La Howell, MI 48843	10/1/14	9/30/16	4	2012	None
JT Roofing, Inc	350 Tower Dr Saukville, WI 53080	6/1/12	5/31/15	1, 2 and 4	2007 & 2008	None
Jinkins, Richard	See, Castlerock Commercial Construction, Inc					
John's Concrete	See, Wagner Companies, Inc, dba John's Concrete					
Kott, Joseph J	See, Alpha Electric, LLC					
Masonry Specialists II, LLC	5109 Briarwood Ct Racine, WI 53402	8/1/15	7/31/18	4	2014	None
Mid-W Enterprises, Inc	1730 22 <sup>nd</sup> Avenue Kenosha, WI 53140	6/1/15	5/31/17	1, 2 and 4	2013	None
Midwest Construction Co, Inc	See, Mid-W Enterprises, Inc					
Oden, Cassie	See, A-1 Duran Roofing & Insulation Services and RRS2 Inc					
Ofstie, Darin	See, Precision Excavating and Grading, LLC					
Peret, Robert	See, A-1 Duran Roofing & Insulation Services and RRS2 Inc					

<u>Name of Contractor</u>	<u>Address</u>	<u>Effective Date</u>	<u>Termination Date</u>	<u>Cause Code</u>	<u>Date of Violation(s)</u>	<u>Limitations/Deviations</u>
Peshtigo Asphalt, Inc	W3895 Track La Peshtigo, WI 54157	3/1/16	2/28/17	1	2013- 2014	None
Precision Excavating and Grading, LLC or Precision Excavating Enterprises, LLC	2104 Pierce Saint Croix Rd Baldwin, WI 54002	5/1/11	4/30/14	1, 2 and 4	2006- 2008	None
R-Way Pumping, Inc	3023 Lake Maria Rd Freeport, MN 56331	3/1/12	2/28/15	1, 2 and 4	2008	None
RRS2 Inc.	133 N Jackson St, #427 Milwaukee, WI 53202 or 1313 N Franklin Pl, #805 Milwaukee, WI 53202	11/1/14	10/31/17	1, 2 and 4	2011- 2012	None
Thull, Gerald T	See, JT Roofing, Inc					
Ventura, Robert	See, Mid-W Enterprises, Inc					
Wagner, Cory L	See, Wagner Companies, Inc					
Wagner Companies, Inc, dba John's Concrete	2063 Georgia Ave Racine, WI 53404	8/1/15	7/31/18	1	2013	None
Yaresh, Kathleen R	See, Grade A Construction, Inc					

Cause Code: 1 = Failure to Pay Straight Time 2 = Failure to Pay Overtime 3 = Kickback 4 = Payroll Records.

Department of Workforce Development  
Equal Rights Division  
P.O. Box 8928  
Madison, WI 53708-8928  
Telephone: (608) 266-6860  
Fax: (608) 267-4592  
TTY: (608) 264-8752



Scott Walker, Governor  
Raymond Allen, Secretary

---

## PREVAILING WAGE – Contractors

Any public works project that has a total estimated project cost that equals or exceeds prevailing wage project thresholds requires a prevailing wage rate determination issued by the Department of Workforce Development (DWD). Public works include erecting, constructing, remodeling, repairing, demolishing, alterations, painting and decorating projects for a local governmental unit or state agency. State law excludes minor service or maintenance work, warranty work, or work under a supply-and-installation contract. There is a statutory definition for most of these exclusions. The prevailing wage laws that apply to local governmental units and their contractors are §§66.0903 and 103.503, Wis. Stats. The prevailing wage laws that apply to state agencies and their contractors are §§103.49 and 103.503, Wis. Stats. The applicable administrative rules for all prevailing wage projects are DWD 290 and DWD 294, Wis. Adm. Code. These laws include provisions that apply to all contractors and subcontractors working on prevailing wage projects.

Any contractor or subcontractor working on a local governmental unit or state agency's public works project that equals or exceeds current prevailing wage project thresholds must do all of the following:

- Receive and review the project's prevailing wage rate determination (i.e., white sheet).
- Tell subcontractors the project is subject to state prevailing wage law and include the prevailing wage rate determination in the construction contract, or if there is no written contract, provide a copy of the project determination to each subcontractor.
- Hire subcontractors who do *not* appear on the "Consolidated List of Debarred Contractors."
- Have a written substance abuse testing program in place that fulfills the requirements of §103.503, Wis. Stats., before commencing work on the project.

- Notify subcontractors that if DWD finds that a contractor or subcontractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.
- Apply to DWD for subjourney wage rates prior to employing these individuals on the project.
- Receive and retain a completed Affidavit of Compliance from each subcontractor brought on to the project before providing final payment to those subcontractors.
- Submit a completed Affidavit of Compliance to the contractor who brought the subcontractor on to the project before receiving final payment for the project.
- Maintain payroll records for 3 years that comply with §§66.0903(10)(a) or 103.49(5)(a), Stats. and DWD 274.06.
- Respond to requests from DWD or the project owner to provide payroll records and/or respond to prevailing wage complaints filed by employees or third parties.

For more information, visit the prevailing wage website: [http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm). For further assistance, call the Equal Rights Division at 608-266-6861 and ask for prevailing wage.

State of Wisconsin  
 Department of Workforce Development  
 Equal Rights Division

## Disclosure of Ownership

The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d), 66.0904(10)(d) and 103.49(7)(d), Wisconsin Statutes.

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1) (m), Wisconsin Statutes].

- (1) On the date a contractor submits a bid to or completes negotiations with a state agency, local governmental unit, or developer, investor or owner on a project subject to Section 66.0903, 66.0904 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency, local governmental unit, or developer, investor or owner, the name of any "other construction business," which the contractor, or a shareholder, officer or partner of the contractor, owns or has owned within the preceding three (3) years.
- (2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 66.0904(2), 103.49(2) and 103.50(2), Wisconsin Statutes.
- (3) This form must **ONLY** be filed, with the state agency project owner, local governmental unit project owner, or developer, investor or owner of a publicly funded private construction project that will be awarding the contract, if **both (A) and (B) are met**.
  - (A) The contractor, or a shareholder, officer or partner of the contractor:
    - (1) Owns at least a 25% interest in the "other construction business," indicated below, on the date the contractor submits a bid or completes negotiations; or
    - (2) Has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.
  - (B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for hours worked in excess of the prevailing hours of labor, to any employee at any time within the preceding three (3) years.

### Other Construction Business

Business Name			
Street Address or P O Box	City	State	Zip Code
Business Name			
Street Address or P O Box	City	State	Zip Code
Business Name			
Street Address or P O Box	City	State	Zip Code
Business Name			
Street Address or P O Box	City	State	Zip Code

**I hereby state under penalty of perjury that the information, contained in this document, is true and accurate according to my knowledge and belief.**

Print the Name of Authorized Officer			
Authorized Officer Signature	Date Signed		
Corporation, Partnership or Sole Proprietorship Name			
Street Address or P O Box	City	State	Zip Code

**If you have any questions call (608) 266-6861**

**This Page Intentionally Left Blank**

State of Wisconsin  
Department of Workforce Development  
Equal Rights Division

### Prime Contractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(c), 66.0904(7)(c) and 103.49(4r)(c) Wisconsin Statutes.

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Agency** indicated below.

State Of )	Project Name	
	DWD Determination Number	Project Number (if applicable)
County Of ) )SS	Date Determination Issued	Date of Contract
	Awarding Agency	
	Date Work Completed	

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below and have recently completed all of the work required under the terms and conditions of a contract with the above-named awarding agency and make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(c), 66.0904(7)(c) or 103.49(4r)(c), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding agency.
- **I have** fully complied with all the wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding agency indicated above.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address	City	State	Zip Code	Telephone Number
Print Name of Authorized Officer			Date Signed	
Signature of Authorized Officer				

**This Page Intentionally Left Blank**

### List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number			Telephone Number		

**If you have any questions call (608) 266-6861**

**This Page Intentionally Left Blank**

State of Wisconsin  
 Department of Workforce Development  
 Equal Rights Division

## Agent or Subcontractor Affidavit of Compliance With Prevailing Wage Rate Determination

Authorization for this form is provided under Sections 66.0903(9)(b), 66.0904(7)(b) and 103.49(4r)(9b), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes.

Personal information you provide may be used for secondary purposes [Privacy Law, Section 15.04(1)(m), Wisconsin Statutes].

This form must **ONLY** be filed with the **Awarding Contractor** indicated below.

State Of _____ )  )SS  County Of _____ )	Project Name		
	DWD Determination Number		Project Number (if applicable)
	Date Determination Issued		Date of Subcontract
	Awarding Contractor		
	Date Work Completed		

After being duly sworn, the person whose name and signature appears below hereby states under penalty of perjury that

- **I am** the duly authorized officer of the corporation, partnership, sole proprietorship or business indicated below. We have recently completed all of the work required under the terms and conditions of a subcontract with the above-named awarding contractor. We make this affidavit in accordance with the requirements set forth in Section 66.0903(9)(b), 66.0904(7)(b) or 103.49(4r)(b), Wisconsin Statutes and Chapter DWD 290 of the Wisconsin Administrative Code in order to obtain FINAL PAYMENT from such awarding contractor.
- **I have** fully complied with the entire wage and hour requirements applicable to this project, including all of the requirements set forth in the prevailing wage rate determination indicated above which was issued for such project by the Department of Workforce Development on the date indicated above.
- **I have** received the required affidavit of compliance from each of my agents and subcontractors that performed work on this project and have listed each of their names and addresses on page 2 of this affidavit.
- **I have** full and accurate records that clearly indicate the name and trade or occupation of every worker(s) that I employed on this project, including an accurate record of the hours worked and actual wages paid to such worker(s).
- **I will** retain the records and affidavit(s) described above and make them available for inspection for a period of at least three (3) years from the completion date indicated above at the address indicated below and shall not remove such records or affidavit(s) without prior notification to the awarding contractor.

Name of Corporation, Partnership, Sole Proprietorship, Business, State Agency or Local Governmental Unit				
Street Address or PO Box	City	State	Zip Code	Telephone Number (    )
Print Name of Authorized Officer			Date Signed	
Authorized Officer Signature				

**This Page Intentionally Left Blank**

### List of Agents and Subcontractors

Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		
Name			Name		
Street Address			Street Address		
City	State	Zip Code	City	State	Zip Code
Telephone Number ( )			Telephone Number ( )		

**If you have any questions call (608) 266-6861**

**This Page Intentionally Left Blank**

# Request to Employ Subjourneyperson

The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes. Personal information you provide may be used for secondary purposes (Privacy Law, s. 15.04(1)(m), Wisconsin Statutes). The employer indicated below requests that the Department of Workforce Development (DWD) determine the prevailing wage rate(s) and related qualifications to enable such employer to use a subjourneyperson(s) on the following prevailing wage project, in accordance with the provisions of Section DWD 290.025, Wisconsin Administrative Code.

1. Name of Project Appearing on the Project Determination	
County	City, Village or Town
DWD Project Determination Number	Project Number (if applicable)
2. Job Classification(s) for which you request a subjourney rate (i.e., carpenter, electrician, plumber, etc.)	
a.	b.
c.	d.
3. Employer Name (Print)	
Address	Requester Name (Print)
Telephone Number ( )	City State Zip Code
Email address (if you prefer to receive your response via email)	Requester Title
	Fax Number (if you prefer to receive your response via fax) ( )
<b>READ CAREFULLY:</b> I understand that this request is ONLY applicable to the project and job classification(s) listed above and that subjourney employees primarily work under the direction of and assist a skilled trade employee by frequently using the tools of a skilled trade and will NOT regularly perform the duties of a general laborer, heavy equipment operator or truck driver. If the subjourney employee regularly performs the work of a different trade or occupation, he/she will be compensated for such work at the applicable journeyperson prevailing wage rate. I agree to compensate subjourney employees in strict accordance with the directions received from the DWD.	
Requester Signature	Date Signed

MAIL the completed request to:  
 EQUAL RIGHTS DIVISION, LABOR STANDARDS BUREAU  
 PO BOX 8928, MADISON WI 53708  
 OR  
 FAX the completed request to: (608) 267-4592 / DO NOT e-mail your request.  
 Call (608) 266-6861 for assistance in completing this form.

**This Page Intentionally Left Blank**

**ADDITIONAL GENERAL PREVAILING WAGE LAW INFORMATION**

(This document updated July 2015)

**NOTE:** Recent prevailing wage law changes enacted by the 2015-17 Budget Bill (2015 Wisconsin Act 55) do not go into effect until calendar year 2017.

For prevailing wage laws and frequently asked questions, refer to the prevailing wage website at: [http://dwd.wisconsin.gov/er/prevailing\\_wage\\_rate/default.htm](http://dwd.wisconsin.gov/er/prevailing_wage_rate/default.htm)

Topic	Who's affected?	Brief description of requirement under §66.0903 or §103.49
Non-applicability	All public entities	Prevailing wage rates do not apply to minor service or maintenance work, warranty work, or work under a supply and installation contract.
Non-applicability: Minor service or maintenance work	Local governmental units & Contractors	Minor service or maintenance work means a project of public works that is limited to <ul style="list-style-type: none"> <li>• minor crack filling, chip or slurry sealing, or other minor pavement patching, not including overlays, that has a projected life span of no longer than 5 years or that is performed for a TOWN and is not funded under §86.31, regardless of projected life span;</li> <li>• the depositing of gravel on an existing gravel road applied solely to maintain the road;</li> <li>• road shoulder maintenance;</li> <li>• cleaning of drainage or sewer ditches or structures; or</li> <li>• any other limited, minor work on public facilities or equipment that is routinely performed to prevent breakdown or deterioration.</li> </ul>
Non-applicability: Minor service or maintenance work	State agencies	Minor service or maintenance work means a project of public works that is limited to <ul style="list-style-type: none"> <li>• minor crack filling, chip or slurry sealing, or other minor pavement patching, not including overlays, that has a projected life span of no longer than 5 years;</li> <li>• cleaning of drainage or sewer ditches or structures; or</li> <li>• any other limited, minor work on public facilities or equipment that is routinely performed to prevent breakdown or deterioration.</li> </ul>
Non-applicability: Supply & installation contract	All public entities	Supply and installation contract means a contract under which the material is installed by means of simple fasteners or connectors such as screws or nuts and bolts and no other work is performed on the site of the project of public works, and the total labor cost to install the material does not exceed 20 percent of the total cost of the contract.
Non-applicability: Work which a contractor or individual donates to a public entity	All public entities	Prevailing wage laws §§66.0903 & 103.49, Stats., do not apply to work performed on a project of public works for which the local governmental unit or the state or the state agency contracting for the project is not required to compensate any contractor, subcontractor, contractor's or subcontractor's agent, or individual for performing the work.

Topic	Who's affected?	Brief description of requirement under §66.0903 or §103.49
<b>Non-applicability: Residential</b>	<b>All public entities</b>	<b>A prevailing wage rate determination is not required for the erection, construction, repair, remodeling, or demolition of a residential property containing 2 dwelling units or less.</b>
<b>Non-applicability: Residential subdivision infrastructure</b>	<b>All public entities</b>	<b>A prevailing wage rate determination is not required for a road, street, bridge, sanitary sewer, or water main project that is a part of a development in which at least 90 percent of the lots contain or will contain 2 dwelling units or less, as determined by the local governmental unit at the time of approval of the development, and that, on completion, is acquired by, or dedicated to, a local governmental unit (including under §236.13(2), Stats.), or the state, for ownership or maintenance by the local governmental unit or the state.</b>
<b>Electronic certified payroll record</b>	<b>Contractors</b>	<b>The requirement that every contractor on a prevailing wage project submit to DWD monthly a certified record of employees who worked on the project and that DWD post these certified records on its Internet website was discontinued effective July 1, 2011. Contractors are still required to maintain payroll records and provide them upon request from DWD &amp;/or the project owner.</b>
<b>Payroll record inspection request by any person</b>	<b>Contractors &amp; Complainants</b>	<b>Any person may request DWD to inspect the payroll records of any contractor working on a prevailing wage project. On receipt of such a request, the contractor must submit to DWD a certified record of its payroll records, other than personally identifiable information relating to an employee of the contractor, for no longer than a 4-week period. DWD may request records from a contractor under this provision no more than once per calendar quarter for each project of public works on which the contractor is performing work. The department may not charge a requester a fee for obtaining that information. DWD must make these certified records available for public inspection.</b>
<b>Statewide uniformity</b>	<b>Local governmental units</b>	<b>A local governmental unit may not enact &amp; administer a prevailing wage ordinance/provision for public works or publicly funded private construction projects. Any extant laws to that effect are void.</b>
<b>Substance Abuse Testing</b>	<b>Contractors &amp; Workers</b>	<b>Before commencing work on a prevailing wage project, a contractor must have a written substance abuse testing program in place that complies with §103.503, Wis. Stats. No employee may use, possess, attempt to possess, distribute, deliver, or be under the influence of a drug or under the influence of alcohol while performing work on a prevailing wage project.</b>

## **INFORMATION FOR BIDDING AND EXECUTION OF CONTRACT**

### **1. INFORMATION AVAILABLE VIA 'QUESTCDN'**

Complete digital project bidding documents are available at [www.questcdn.com](http://www.questcdn.com). You may download the digital plan documents for \$ 50.00 by inputting Quest project #4419472 on the website's Project Search page. Please contact QuestCDN.com at 952-233-1632 or [info@questcdn.com](mailto:info@questcdn.com) for assistance in free membership registration, downloading, and working with this digital project information. Bidding documents may be examined at the offices of City of Marshfield, Engineering Division, 630 S Central Avenue, Marshfield, WI 54449. A current plan holder's list and bid tabulation will be available on the QuestCDN.com website after bids are opened.

### **2. WAGE SCALE**

The Contractor shall be bound by the Prevailing Wage Rate Determination attached to the Special Provisions and a part of this Contract. The Contractor shall furnish certified copies of his payroll for any period when requested by the Owner.

### **3. PREPARATION OF PROPOSAL**

The Bidder shall submit his Proposal on the form furnished by the Owner. The Proposal shall be executed properly and unit prices shall be offered for all items indicated on the Proposal Form.

In case of conflict between the Unit Price and the corresponding extended amount, the Unit Price shall govern.

All writing shall be with ink or typewriter except the signature, which shall be written with ink.

A Proposal submitted by an individual shall be signed by the Bidder or by a duly authorized agent. A Proposal submitted by a partnership shall be signed by a member or by a duly authorized agent thereof. A Proposal submitted by a corporation shall be signed by an authorized officer or duly authorized agent of such corporation, and the Proposal shall show the name of the state under the laws of which said corporation was chartered. The required signature shall, in all cases, appear in the space provided therefore on the Proposal.

### **4. SUBCONTRACTING**

The Contractor will be permitted to sublet a portion of the Contract, but shall perform with his own organization, work amounting to at least 30 percent of the original Contract amount.

If the Contractor shall sublet any part of this Contract, the Contractor shall be as fully responsible to the Owner for the acts and omissions of his Subcontractor and of the persons either directly or indirectly employed by his Subcontractor as he is by acts or omissions of persons directly employed by himself. All Subcontractors, if any, shall be listed in the spaces provided on the Proposal Form and said list shall not be added to or altered without the written consent of the Owner.

## 5. FORMS TO BE INCLUDED AS THE 'BID'

Forms to be included by the Bidder and submitted to the Owner as the 'Bid' include the following:

- **Proposal**
- **Proposal Guarantee**
- **Full and Complete List of Subcontractors and Suppliers**

These forms/sections can be identified by the title on the first page of said section and the footer on the bottom of each page. Prospective Bidders shall go through these sections and fill them out completely. Failure to do so may result in having your bid be considered non-responsive.

Note: Form/sections to be executed by the successful low bidder as the 'Contract' includes the Certificate of Insurance, Performance and Payment Bond, and Contract.

## 6. PROPOSAL GUARANTEE

No Proposal will be considered unless accompanied by a certified check or bid bond in the amount, and payable to, the party as designated in the advertisement.

If alternate bids are invited and submitted, the Proposal Guarantee shall cover the amount of the highest alternate.

## 7. QUANTITIES

The estimated quantities of work as shown on the plans or in the contract documents have been compiled for the purpose of comparing proposals and are believed to be reasonably accurate. The Owner reserves the right to increase quantities, decrease quantities, delete items of work or order extra work as discussed in the Standard Specifications (Section 1.2).

## 8. INTENT OF PLANS AND SPECIFICATIONS

The direct intent of the Plans and Specifications is to provide for the construction, execution, and completion of every detail of a complete work or improvement which the Contractor undertakes to do in full compliance with the Plans, Specifications, Special Provisions, and all other Contract requirements. The Contractor shall perform all items of work covered and stipulated in the Proposal, including altered and/or extra work, all in accordance with the lines, grades, sections, and dimensions given, and shall furnish, unless otherwise provided in the Contract, all materials, implements, machinery, equipment, tools, supplies, and transportation and labor necessary for the prosecution and completion of the work.

## 9. DELIVERY OF PROPOSALS

Each Proposal shall be placed, together with the Proposal Guarantee, in a sealed envelope so marked as to indicate the project number and location and shall also show the name and address of the Contractor. Proposals will be received at the place designated in the advertisement until the hour on the date set for the receiving thereof and must be in the hands of the City Engineer by that time. When sent by mail, the sealed Proposal marked as indicated above shall be enclosed in an additional envelope. Proposals sent by mail must be in the hands of the City Engineer by the hour on the date set for receiving bids.

## **10. WITHDRAWAL OF PROPOSALS**

A Bidder may withdraw his Proposal, provided the request in writing is in the hands of the officer conducting the letting, by the time set for opening Proposals and that such request for withdrawal is not contingent on the result of bids read on other projects. Such Proposal will be returned to the Bidder unopened.

## **11. OPENING OF PROPOSALS**

Proposals will be opened and read publicly at the time and place indicated in the advertisement. Bidders or their authorized agents are invited to be present.

## **12. REJECTION OF PROPOSALS**

Proposals may be rejected if they show any alterations of form, additions, or amendments not called for, conditional or alternate bid unless called for, incomplete bids, erasures, or irregularities of any kind.

Proposals in which unit prices are not submitted for each item or work listed may be rejected.

## **13. DISQUALIFICATION OF BIDDERS**

Any one or more of the following causes may be considered as sufficient for rejection of the bid or bids and disqualification of the Bidder from further bidding for such period of time as determined by the Owner:

More than one Proposal for the same work from an individual, partnership, or corporation under the same or different names.

Evidence of collusion among the Bidders.

Lack of responsibility as shown by past work for the Owner, judged from the standpoint of workmanship and progress.

Noncompliance with terms of previous Contracts.

Uncompleted work which, in the judgment of the Owner, might hinder or prevent prompt completion of additional work if awarded.

## **14. CONSIDERATION OF PROPOSALS**

The Proposals received will be compared on the basis of summation of products of the items or work listed and the Contract unit prices offered. In case of discrepancy between the gross sum shown in the Proposal and that obtained by adding the products of the quantities of work for unit prices, the unit prices shall govern and any errors found in said projects shall be corrected. In awarding the Contract, the Owner may, in addition to considering the amount stated in the Proposal, take into consideration the responsibility of the various Bidders as determined from any investigation which it may elect to make.

The right is reserved to reject any or all Proposals, to waive technicalities, to re-advertise for Proposals, or to proceed to do the work otherwise, if, in the judgment of the Owner, the best interest of the City will be promoted thereby.

## **15. AWARDING OF THE CONTRACT**

The Contract shall be deemed to have been awarded when notice in writing is forwarded by the City Engineer pursuant to actions of the Board of Public Works and/or Common Council.

## **16. RETURN OF PROPOSAL GUARANTEE**

The Proposal guarantees of all except the two (2) lowest responsible Bidders will be returned within a reasonable time after the Proposals have been checked and tabulated. Proposal Guarantees of the two (2) lowest Bidders will be returned as soon as the Contract and Contractor's 100% Performance Bond and other documents required to be signed by the successful Bidder have been properly executed by the Bidder and submitted in proper form to the Owner.

## **17. EXECUTION OF CONTRACT**

Executed and complete Contracts shall be presented to the Owner within ten (10) calendar days after the date of the Notice of Award of the Contract. The Contract shall be executed by the Bidder/Contractor and the Contractor's bond(s) shall be executed by the Principal and Surety.

The Contractor shall submit insurance documents along with the executed Contract. Insurance documents shall include a Certificate of Insurance which clearly indicates compliance with the Contractor Liability Insurance Requirements as specified in the City's Standard Specifications (Section 1.1.9). In addition to the Certificate of Insurance, the Contractor shall submit a complete copy of the appropriate endorsements(s), such as but not limited to the endorsement which names the city of Marshfield as an additional insured.

Submission of improperly executed documents, or incomplete documents (such as failing to submit the Certificate of Insurance and /or endorsements) will delay final execution of the Contract by the Owner, and possibly the start of construction, however the schedule for completion of the project(s) will not be adjusted.

Final execution of the Contract by the Owner will occur after the Owner's attorney has reviewed the documents. The Owner and attorney shall be allowed a reasonable amount of time to complete their review/execution of the Contract (three working days minimum).

No Contract shall be considered binding upon the Owner until final execution of the Contract by the Owner.

## **18. FAILURE TO EXECUTE CONTRACT**

Failure on the part of the successful Bidder to execute a Contract and an acceptable Contractor's bond within ten (10) days after the date of notice of the awarding of the Contract will be considered as just cause for the annulment of the awarding and the forfeiture of the Proposal Guarantee to the Owner as payment of liquidated damages sustained as a result of such failure.

**CONTRACT 2016-02  
SPECIAL CONDITIONS  
INDEX**

Article No.	Standard Specification Chapter	Item/Article Name
1.	1	Project Scope
2.	1	Prosecution and Progress
3.	1	Staging of Construction
4.	1	Construction Vehicle Access
5.	1	Notification by Contractor
6.	1	Storage of Materials or Equipment
7.	1	Utilities
8.	1	Obstacles
9.	1	Construction Staking
10.	1	Public Information Meetings
11.	1	Project Sign(s) Required
12.	1	Limits of Construction
13.	1	Temporary Driveway for Draxler Transport (To/From STH 13/CTH A/Veterans Parkway)
14.	3	Removal and Disposition of Existing Materials
15.	4	Compaction
16.	4	Groundwater and Dewatering
17.	4	Rock Excavation
18.	4	Boulder Excavation
19.	4	Surplus Spoils
20.	5	Salvage and Reuse Existing Aggregate (Driveways)
21.	6/19/20	Trench Plugs/Clay Dams
22.	16	Restoration of Turf Surfaces
23.	18	Erosion Controls
24.	19	14-Inch HDPE Water Main (DIPS SDR11) Installed Via HDD
25.	19	Alternate 12-Inch Ductile Iron Pipe (Installed Via HDD)
26.	19	Special Water Main Fittings
27.	19	Water Valve Manholes
28.	19	Hydrants (Inc. Hydrant Leads, Connections and Extensions)
29.	19	12-Inch Water Main (Dead-End) Concrete Buttress
30.	20	Connect New PVC Sanitary Sewer Pipe to Existing Manhole
31.	20	Special Sanitary Manhole Flowline Configuration
32.	20	Cleaning and Televising of New Sanitary Sewers
33.	22	Tracer Wire
34.	24	Traffic Control

**This Page Intentionally Left Blank**

## **SPECIAL CONDITIONS**

### **1. PROJECT SCOPE**

Contract 2016-02 includes work to extend sanitary sewer and water main to a proposed Kwik-Trip facility on Draxler Drive. The proposed water main along STH 13/CTH A/Veterans Parkway will be 14" HDPE installed via Horizontal Directional Drilling. The remainder of water mains (and appurtenances) and all sanitary sewers will be installed via open excavation. Groundwater dewatering is expected. Construction limits will restrict access along the highway (no impacts to highway traffic allowed) and special traffic controls and erosion controls will be necessary. Draxler Transport (over-the-road trucking) must be provided access for trucks at all times. The gravel/aggregate surface/base of Draxler Drive shall be salvaged and reused to reconstruct the gravel/aggregate roadway/driveway.

### **2. PROSECUTION AND PROGRESS**

Perform the work under this construction contract as indicated on the plans and details, and execute the work as specified in these Special Provisions, the City of Marshfield 2016 Standard Specifications for Public Works Construction; and if so referenced the State of Wisconsin Department of Transportation Standard Specifications for Highway and Structure Construction, Current Edition, and/or the Standard Specifications for Sewer and Water Construction in Wisconsin, Sixth Edition with Addendum Nos. One and Two.

The Contractor shall provide a detailed schedule of construction operations (7 days prior to the preconstruction conference). The Contractor's schedule shall comply with the following:

Anticipated Start of Construction: June 6, 2016.  
 Completion: Before July 20, 2016.  
 Penalty: \$450 per calendar day.

### **3. STAGING OF CONSTRUCTION**

Special staging/operations will be necessary to confine construction operations within construction limits along STH 13/CTH A/Veterans Parkway (as specified elsewhere within these Special Provisions), including excavation, material storage/stockpiling, equipment, importing bedding/cover material, etc. Private properties may be available for use however it is the Contractor's responsibility to make said arrangements/agreements. Contractor shall inform the City of properties whose owner(s) have agreed with Contractor for said use; however the City Engineer hereby assumes no responsibility/liability regarding said arrangements/agreements.

Contractor shall not trespass upon nor plan to occupy or use in any manner the property owned by Jerry and Sandra Moore.

Stage all work such that (truck) access to/from Draxler Transport is not interrupted and is available at all times. Minimize the duration of time that Draxler Drive is not accessible for Draxler Transport.

Coordinate with:

- Draxler Transport (Marty Draxler, 715/591-2222) regarding truck access.
- City (Wastewater) staff regarding cleaning and televising of sanitary sewers.
- City's asphalt paving contractor regarding asphalt pavement replacement.

**4. CONSTRUCTION VEHICLE ACCESS**

Trucks hauling materials to or from each project site shall utilize only truck route streets that are indicated on the City of Marshfield Truck Route Map (included with these Special Provisions), unless other routes are approved by the City Engineer via the City's Overweight Permit process.

Access to or from construction sites (vehicles, equipment, materials/deliveries, personnel, etc.) shall not be allowed via STH '13'/CTH 'A'/Veterans Parkway – access these areas via 34<sup>th</sup> Street and/or Draxler Drive only.

**5. NOTIFICATION BY CONTRACTOR**

The Contractor shall notify the agencies listed below if road closures or changes in access can be expected to occur. The notice shall be distributed via fax at least 48-hours prior to closing a roadway or changing access. All notices shall briefly summarize the current status or work and access, and discuss progress or changes which are expected to occur within the next two weeks. The notice shall be signed by the Contractor's agent who prepared it and include contact information (with phone numbers) where notified agencies can call to ask questions.

The City Engineer will provide email addresses/contacts to the Contractor for distribution of said Notice. Fax numbers can be used if emails are undeliverable/returned.

Agencies to be notified include:

<b>AGENCY</b>	<b>FAX NUMBER</b>
City of Marshfield – Public Works, Engineering Division	715.384.7631
City of Marshfield – Public Works, Street Division	715.486.2081
City of Marshfield – Police Department	715.384.0823
City of Marshfield – Fire Department	715.384.8868
City of Marshfield – Wastewater Utility	715.591.2027
Wood County – Sheriff's Department	715.421.8775
Wood County – Sheriff's Department – Marshfield Annex	715.384.4602
Wood County Highway Department	715.421.8808
Wood County Dispatch	715.421.8504

The Contractor shall notify all occupied properties (commercial and residential, including renters) of the start of construction at least three calendar days prior to the beginning of said work. The City Engineer can supply a list of mailing addresses, upon request.

**6. STORAGE OF MATERIALS OR EQUIPMENT**

Contractor shall not store any materials, pipe, manhole sections, spoil material, or equipment within the clear zone of STH 13/CTH A unless approved by Engineer, WisDOT and protected with appropriate traffic control measures as shown in plan details. Contractor shall coordinate storage of all materials with Engineer and WisDOT.

The Contractor shall not utilize property beyond the right of way (private lands) or parcels upon which the City of Marshfield has acquired easement rights, unless the Contractor obtains written permission for use from the property owner(s). Contractor shall inform the City Engineer of said permission/agreements; however, the City Engineer hereby assumes no responsibility/liability regarding said arrangements/agreements.

Disturbed areas outside of the construction limits and/or slope intercepts and utilized for storage or access shall be protected with erosion controls and restored to the satisfaction of the Engineer upon

completion of the project. All work regarding said storage, including but not limited to erosion controls and restoration, shall be considered incidental to construction.

## 7. UTILITIES

### A. General

There are underground and overhead utility facilities located within project limits. The Contractor shall coordinate his construction activities with a call to Digger's Hotline as required per State Statute. The Contractor is encouraged to contact utility/facility owners to obtain current information on the status of an existing utility facility or any utility relocation work.

Prior to and concurrent with construction, utility companies may be upgrading and/or relocating facilities. Existing facilities are shown on the plans and are based upon information provided by utility companies. The Contractor shall coordinate all work with utility companies as pertinent to the Contractor's schedule of operation for the project. No damages or claims shall be made against the City due to delays by various utilities.

Utility work may be allowed to occur beyond staged construction limits, as approved by the City Engineer.

Utilities which are not specifically noted herein to be replaced shall therefore be assumed to remain in place, without disruption to service.

Utility Line Openings (ULO's), as specified in Section 4.1.6 of the Standard Specifications, may be required on the plans at locations of potential conflict as identified during the design. These ULO's will be paid for if specifically listed in the unit price schedule. The Contractor shall perform ULO's per plan and additional ULO's if desired or necessary to maintain production rates, at Contractor's costs (additional ULO's are considered incidental and will not be measured/paid for; nor will the quantity of the ULO bid item be increased unless specifically approved for payment by the City Engineer). Contractor shall comply with the requirements of Section 4.1.6 if ULO's are measured/paid for or incidental, required on the plans or additional work by Contractor.

It is possible that potential conflicts may be discovered during construction. The Contractor and Utility owner are ultimately responsible for discovery and resolution of all conflicts.

All costs associated with the discovery of utility facilities and/or conflicts along with protecting utility facilities, including but not limited to: utilization of special equipment and/or work procedures; loss of production; special protection devices such as sheeting, shoring, poling, timbers or supports; temporary removal and reinstallation; additional labor or equipment; repair/replacement of utility facilities any down time or delay; all coordination associated with utilities, and all material, labor, equipment, tools and incidentals necessary to complete the work, shall be incidental to construction.

Utility companies known to have facilities within the project area(s) include:

- City of Marshfield – Sanitary Sewer
- City of Marshfield – Storm Sewer
- Marshfield Utilities (MU) – Water
- Marshfield Utilities (MU) – Electric and Street Lighting
- Charter Communications – Cable
- Frontier Communications – Telephone
- TDS - Telephone
- Packerland Broadband – Fiber Optic
- Windstream – Fiber Optic
- WE Energies – Natural Gas

## **B. Sanitary Sewer**

The City of Marshfield has existing sanitary sewer mains and laterals that are located within construction limits of projects as indicated in the plans. Sanitary sewer mains and laterals will be replaced as part of sanitary sewer reconstruction projects. The exact location of existing sanitary laterals is unknown, however, the Contractor shall be responsible to locate, protect and repair (if disturbed) existing mains and laterals (to remain) as necessary.

## **C. Storm Sewer**

The City of Marshfield has existing storm sewer mains, leads and laterals that are located within construction limits of projects as indicated on the plans. The exact location of existing storm mains, laterals and insulation is unknown, however, the Contractor shall be responsible to locate, protect and repair (if disturbed) existing mains and laterals (to remain) as necessary.

## **D. Water Main**

Marshfield Utilities (MU) – Water Department has existing water mains, valves, hydrants, leads, hydrant valves and service laterals that are located within the construction limits of projects as indicated on the plans. The exact location of existing water facilities is unknown, however, the Contractor shall be responsible to locate, protect and repair (if disturbed) existing facilities (to remain) as necessary.

## **E. Electric**

Marshfield Utilities (MU) – Electric Department has facilities within construction limits. No removals, upgrades, replacements or adjustments are anticipated. The Contractor shall coordinate with Marshfield Utilities crews if poles need to be held during Contractor's work. The Contractor shall coordinate with MU to resolve conflicts and allow ample time and space for MU to remove, adjust, reconstruct and/or relocate facilities.

## **F. Communication/Data Lines**

Charter Communications, Frontier Communications, Packerland Broadband, TDS and Windstream are known to have existing facilities within construction limits. Major rebuilding of these facilities is not anticipated; however the Contractor shall allow additional time for adjustment of facilities as necessary.

The Contractor shall exercise extreme care when working near these existing facilities and shall utilize special equipment and/or work procedures to protect these facilities. The Contractor shall be responsible for any damage to said facilities and shall repair or replace said facilities to the satisfaction of the utility owner.

The Contractor shall coordinate with these utility companies regarding discovery and resolution of conflicts and shall allow ample time and space for the utility owner to construct, adjust and reconstruct and/or relocate facilities.

All costs associated with discovery and/or protecting facilities, including but not limited to: utilization of special equipment and/or work procedures; loss of production; special protection devices such as sheeting, shoring, piling, timbers, or supports; additional labor or equipment; repair/replacement of utility facilities; any down time or delay; and all coordination associated with these existing utilities, shall be incidental to construction.

## **G. Natural Gas**

WE Energies has underground facilities within the project limits. The Contractor shall coordinate with WE Energies regarding the discovery and resolution of any conflicts and shall allow ample time and space for the natural gas utility owner to remove, construct, adjust, reconstruct and/or relocate facilities, as necessary.

## **8. OBSTACLES**

### **A. General**

It is understood that the Contractor, by careful examination, is satisfied as to the nature and location of the obstacles to be encountered, requirements as dictated by the utility/obstacle owner, character of the equipment and facilities needed for prosecution of the project. All work associated with "Obstacles" shall be considered incidental to the project(s), unless specifically discussed or listed for payment elsewhere.

### **B. Utilities**

Gas, power, communication, data, cable TV and/or telephone lines, poles, guys, pedestals or other utility items encountered as construction progresses, may require temporary removal, relocation and/or replacement. All costs associated with the temporary relocations, removal and reconnection of utility facilities will be at the Contractor's expense and no additional payment will be made for said work. Permanent removal of utility facilities shall be the responsibility of the utility Owners. The Contractor shall work with the utilities on the scheduling of any temporary or permanent relocation.

### **C. Sanitary Sewer Mains and Service Laterals**

The Contractor will be required to keep a supply of materials on site to repair damaged sewer mains or laterals encountered during the construction. The materials include but are not limited to PVC sewer pipe, Fernco adapters, repair couplings, wyes, tees, etc. Failure to have adequate and proper materials on hand for timely repairs will not be grounds for any additional payments. Any damage to sanitary laterals, located or not located, shall be the responsibility of the Contractor.

Note: Fernco connectors are not allowed on (permanent) PVC to PVC connections.

### **D. Street Signs (City)**

Where necessary for construction within construction limits, the Contractor shall carefully remove existing street signs (and posts) and thereafter reinstall said signs/posts. Temporary signs required for traffic flow shall be installed and maintained by the Contractor.

### **E. Miscellaneous Signs**

Where necessary for construction, the Contractor shall remove, adjust and/or relocate (temporary or permanent) existing miscellaneous signs not owned by the City of Marshfield such that each sign is visible to intended parties/motorists. Upon completion of work in the immediate area of each sign, the existing miscellaneous sign shall be adjusted, moved and/or reinstalled to its original or proposed location. Removal and/or adjustment of signs shall be considered incidental to construction.

## **F. Culverts**

The Contractor shall salvage and thereafter reinstall existing culverts and end treatments as necessary for construction. Culvert pipes which are damaged by the Contractor will be replaced at the Contractor's expense. The Contractor shall take appropriate actions (such as removing sand, sediment, debris and otherwise cleaning culverts) prior to removal to prevent damaging the pipe. Salvaged culvert pipes will be reinstalled in a clean condition to provide proper hydraulic capacity.

## **9. CONSTRUCTION STAKING**

The City of Marshfield shall provide construction staking as described in the City's Standard Specifications (Section 1.4.3). The Contractor shall coordinate staking requirements with the City and provide at least 72 hours notice when requesting staking.

The Contractor shall provide any additional staking as necessary for construction of the projects.

## **10. PUBLIC INFORMATION MEETINGS**

The Contractor will be required to attend Public Information Meetings (as required by Standard Specification 1.3.26) prior to the start of construction of each major construction stage for the project. The initial meeting(s) will be held prior to the start of construction and a second meeting(s) may be held at a later date if deemed necessary by the Engineer. At these Public Information Meetings the Contractor shall present the construction schedule, discuss access and answer questions from concerned residents.

## **11. PROJECT SIGN(S) REQUIRED**

A project sign is required for each project in accordance with City Standard Specification Section 1.3.29. Installation, maintenance and removal thereafter of the project sign shall be considered incidental to construction.

## **12. LIMITS OF CONSTRUCTION**

Construction/excavation limits vary throughout the proposed work site and are limited by WisDOT Right-of-Way (R/W), WisDOT Clear Zone and private property (Jerry & Sandra Moore). Contractor shall not occupy, disturb or otherwise impact WisDOT R/W within the Clear Zone, or private property (Jerry & Sandra Moore) beyond WisDOT R/W.

The City Engineer will stake silt fence locations within existing wetlands adjacent to the R/W and proposed valve manhole locations adjacent to Mill Creek. Staked silt fence shall serve as allowable limits of disturbance within wetlands and adjacent to Mill Creek. Contractor shall not disturb any areas beyond said silt fence. Contractor's equipment will not be allowed to cross Mill Creek or beyond said silt fence in existing wetlands.

Contractor shall use a temporary retention system, such as trench boxes, shoring, sheet piling or other means to provide safe trenches and maintain work (including storage areas and stockpiles) within construction limits. Confined construction/excavation limits may necessitate trench subcutting/benching and hauling/stockpiling of backfill material. All costs associated with temporary retention, trench boxes, shoring, sheet piling and other means to provide safe trenches and maintain work within construction limits shall be considered incidental to construction. Temporary retention, trench boxes, shoring, sheet piles and other materials shall be completely removed upon completion of the work.

### **13. TEMPORARY DRIVEWAY FOR DRAXLER TRANSPORT (TO/FROM STH 13/CTH A/ VETERANS PARKWAY)**

The Contractor is required to provide access to Draxler Transport at all times. Driveway access shall be provided by utilizing the existing driveway and/or installing a temporary driveway to/from STH 13/CTH A/Veterans Parkway. Said temporary driveway shall be constructed and maintained to accommodate large truck traffic. A temporary culvert pipe and reflectorized markers are required for this temporary driveway. Contractor shall coordinate location, schedule, etc. with the property owner prior to disruption of access. The Contractor shall remove the temporary driveway (including culvert pipe, etc.) and restore the area disturbed to a preconstruction condition when said temporary driveway is no longer needed (i.e. when Draxler Drive is re-opened). This work shall be measured and paid for per the contract unit price, per lump sum, as a single unit, regardless of the number of times the temporary driveway is moved, adjusted, maintained, restored, etc.

### **14. REMOVAL AND DISPOSITION OF EXISTING MATERIALS**

Materials designated to be removed (and salvaged for future use by the City) shall be removed, segregated and hauled by the Contractor to the City of Marshfield Public Works – Street Division Material Storage yards at either 2600 South Vine Avenue, or the 'Old Landfill' (east side of Lincoln Avenue at Airport Road) and deposited in the appropriate stockpile. The City shall be responsible for maintaining all materials stockpiles. The Contractor shall be responsible for disposal of existing materials at an alternate site if storage space at city sites is exhausted. Removal (and salvage) shall be in accordance with the Special Conditions and the City's Standard Specifications for Public Works Construction. When disposing materials at alternative or private sites, the Contractor is responsible for all legal and monetary obligations; for obtaining permits; and for compliance with all permit conditions, laws, rules and ordinances. All unsuitable materials and materials not specifically discussed herein or the City's Standard Specifications shall be disposed of by the Contractor (incidental to construction).

- A. Asphalt surfaces (including asphalt overlay, approaches, driveways, etc.) shall be deposited at the City's Vine Avenue materials storage yard (paid per Remove Asphalt Surface per S.Y).
- B. Concrete, rock and boulders shall be deposited at the City's Vine Avenue materials storage yard (paid per removal specifications per square yard or lineal foot).
- C. Surplus topsoil (suitable materials, may include sod, relatively free of contaminants/debris) shall be deposited at the 'Old Landfill' site (incidental to construction).
- D. Excavation – excavated fill materials shall be used on the project site in accordance with the grading plan. Unsuitable materials or surplus excavation shall be disposed of by the Contractor. Disposal of surplus excavation materials shall be considered incidental to construction. It is hereby recognized that disposal of unsuitable surplus excavation as described herein is the Contractor's responsibility, independent of City oversight or control, however, the Contractor shall provide documentation that demonstrates the disposal site property owner(s) are satisfied that the Contractor has fulfilled his obligation(s) to said property owner(s).

### **15. COMPACTION**

All disturbed, placed, imported (bedding, cover and/or backfill) or exposed soil or aggregate material shall be compacted in accordance with Section 4 of the Standard Specifications. Wet soil shall be removed/replaced or processed such that moisture/water content facilitates compaction to comply with density requirements.

Special compaction equipment will be required throughout the project. Use equipment which accomplishes compaction goals without damaging pavements, surfaces, buildings and foundations abutting the project.

## **16. GROUNDWATER AND DEWATERING**

Groundwater Dewatering and its disposal/discharge will be required to facilitate the construction of the proposed water main within/near existing wetlands, adjacent to Mill Creek and other areas as necessary for construction. Contractor will be responsible for choosing the method and locations for dewatering necessary to draw groundwater down to at least 2' below the excavation or deeper if necessary. Contractor will be responsible for preparing a groundwater dewatering plan and contacting the Wisconsin DNR's Private Water Supply Section to secure a groundwater dewatering permit (High Capacity Well(s)) if flows from dewatering operations (single or aggregate) exceed 70 gpm. Contractor shall secure said permit(s) prior to the initiation of dewatering operations. The Contractor will also be responsible for all fees associated with permit(s). The DNR's Private Water Supply Section can be reached at the following address:

Wisconsin Department of Natural Resources  
Private Water Supply Section  
Box 7921  
Madison, WI 53707

The Contractor shall also contact the Department of Natural Resources for a Wisconsin Pollutant Discharge Elimination System (WPDES) Permit for discharges from pumping groundwater to lower the water table or dewater excavations. The Department of Natural Resources district office or jurisdiction for the project area is the office for contact.

Sampling and monitoring shall be performed by the Contractor in accordance with WPDES permit requirements.

The Contractor shall furnish dewatering sumps, wells, discharge pipe, and pumping equipment as may be required to adequately dewater the work. Pumping equipment shall be capable of running continuously except for conditions which may be approved by the Engineer. Water levels shall be maintained at a level of at least 2' below all open excavations for pipe or structures.

For the purposes of compliance, the provisions of chapter NR 812 apply to all new and existing drill holes to be utilized for the purpose of dewatering and the following:

1. Wells governed under chapter NR 141 do not apply, unless they are high capacity wells, and shall not be used for the purpose of dewatering.

For the purposes of construction and installation, and abandonment, the provisions of chapter NR 812 apply to all drill holes and wells.

For the purpose of operation for wells used for dewatering, these operations shall be in accordance with the requirements of these specifications, the City Engineer and all local, municipal, and state codes, rules and regulations.

Each discharge line shall be at a location approved by the City Engineer.

All water discharged from work sites shall be disposed of in such a manner to minimize erosion and sedimentation. Water must be discharged to a hard surface such as metal sheeting, wood sheeting, concrete, etc., so that erosion at the discharge point is eliminated.

No water shall be discharged into storm sewers.

Pit/trench water shall be handled and discharged in accordance with WDNR requirements. The Contractor's Wisconsin Pollutant Discharge Elimination System (WPDES) Permit shall address pit/trench water at start-up of the dewatering system and any water pumped from a pit; within wetlands, in the vicinity of wetlands and also uplands locations.

All pit/trench water encountered during construction within or in the vicinity of existing wetlands shall be handled as follows:

1. Discharge to the north and/or south sides of Mill Creek via direct discharge or the STH 13/CTH A/Veterans Parkway Right-of-Way ditch, with appropriate use of erosion controls. Filter bags may be required.
2. Pit/Trench water shall be disposed of to a non-wetland ground surface, including but not limited to pumped to a tanker to be land-applied to uplands offsite, pumped to uplands onsite (not discharging back into existing wetlands) with the appropriate use of erosion/sedimentation controls as approved by Engineer, or an alternate method approved by the Engineer. Contractor will be responsible for testing treated trench water according to the provisions of the applicable discharge permit.
3. Pit/trench water may be allowed to flow into sanitary sewer if pre-approval is granted by the Owner. Note: Owner will only approve this method for small volumes or for emergencies only. Pit/trench water discharged to the sanitary sewer and ultimately the City of Marshfield Wastewater Treatment Facility (WWTF) shall be:
  - Uncontaminated groundwater (suspended solids are permitted)
  - Free of grit, stones, sand and gravel. These materials must be removed on site prior to discharge to the sewer.
  - Measured and recorded daily for total flow in gallons and flow rate in gallons/minute. Contractor shall estimate volume and flow rates prior to Owner's approval for discharge. Discharges which appear to violate Owner's conditions for discharge shall be immediately discontinued. Discharges to sanitary sewers may necessitate additional cleaning of sewers, which shall be the responsibility of the Contractor as described elsewhere in these Special Provisions.

Groundwater Dewatering for Bore Pits, manholes and other non-linear excavations such as but not limited to excavations for connecting to existing facilities, valves, valve manholes, hydrants, etc. shall be measured and paid for as a single Lump Sum unit of work regardless of the number of locations where dewatering is actually utilized.

Groundwater Dewatering for Sanitary Sewer and Water Main, as linear excavations, shall be measured and paid for per Lineal Foot, measured from center of structure/appurtenance to center of structure/appurtenance. Parallel installations will not be measured separately (will be considered a single linear excavation). If groundwater dewatering is required for installation of lateral runs such as sanitary sewer lateral, water service, hydrant leads, etc., which are contiguous with mainline linear dewatering run, then these linear excavations will be measured from the end of the run to a point within 10-feet of a dewatered main.

Payment for Groundwater Dewatering, measured as discussed above, shall constitute full compensation for all work and fees described or implied herein, including but not limited to exploration, access, plan preparation, permit acquisition, installation, excavation, operation, discharge, treatment, permit compliance, removal and abandonment; for all materials such as wells, piping, pumping equipment, etc.; for disposal of waters, sediments, waste, etc.; along with all mobilization, labor, tools, equipment and incidentals necessary to complete the work.

## **17. ROCK EXCAVATION**

Rock excavation may be required for this project. Rock excavation shall be defined to include all hard, solid, rock in ledges, bedded deposits and unstratified masses, all natural conglomerate deposits so firmly cemented as to present all the characteristics of solid rock. Shales, hard pan, masonry and

concrete rubble shall not be considered rock excavation. Rock excavation will not be paid unless the removal of the consolidated rock formation requires methods above and beyond the operation capacity of a 100,000-pound hydraulic excavator utilizing a rock bucket. If rock is encountered in any excavation, work shall not proceed until the Engineer and Contractor have investigated the extent of the rock, have agreed to the method of removal and material to replace rock.

Rock shall be removed to provide 6-inches of clearance to the bottom of pipe or manholes, and 12-inches of side clearance. Excavate/remove rock to a distance of at least 10-feet beyond the end of a stubbed pipeline. Contractor shall review the applicability of blasting and non-blasting methods of fracturing rock. If blasting is determined to be required, Contractor shall coordinate with appropriate agencies (WisDOT, Wood County, etc.) to obtain necessary permits.

If rock is encountered, the Contractor shall employ 'hammering' means and methods as the preferred alternative, unless the thickness or consistency to be removed renders this means infeasible. If blasting is required, a Blasting Plan, Shop Log and Vibration Monitoring are required and shall be considered incidental to Rock Excavation.

Rock excavation shall be measured by the cubic yard, in place volume, with end area measurements within the pipe zone not extending beyond removal limits.

Rock excavation shall be paid for at the contract unit price per cubic yard, measured/calculated as discussed herein. Payment shall constitute full compensation for all mobilization, investigation, permits, drilling, blasting, removal, replacement material(s), hauling, disposal of waste, downtime and delay, along with all materials, labor, tools, equipment and incidentals necessary to complete the work.

**18. BOULDER EXCAVATION**

Boulder excavation, if required, shall include all solid rock boulders necessary to be removed and having a volume of 1 cubic yard or larger. Boulders shall be removed to provide at least 6 inches of clearance below the proposed pipe/manholes and at least 12 inches of side clearance. Contractor shall remove and dispose of boulders at an off-site location and provide replacement material(s) (bedding/cover, suitable fill, etc.).

Boulder excavation shall be measured individually and the volume computed from dimensions taken in three directions, resulting in a cubic yard measurement.

Boulder excavation shall be paid for at the contract unit price per cubic yard, measured/calculated as discussed herein. Payment shall constitute full compensation for all mobilization, removal, replacement material(s), hauling, disposal of waste, down time and delay, along with all materials, labor, tools, equipment and incidentals necessary to complete the work.

**19. SURPLUS SPOILS**

Surplus spoils of suitable materials (no boulders, rock, peat, etc.) shall not be hauled off-site but shall be moved to the future street right-of-way between STH 13/CTH A/Veterans Parkway and Draxler Drive (STA 10A+00 to STA 15A+00, 35' LT to 35' RT).

The existing topsoil shall be stripped and salvaged from all areas to be disturbed by sewer and/or water installation operations and beyond these areas within the spoil disposal limits as described above. Salvaged topsoil shall be temporarily stored on site. After completion of said sewer and water facilities place surplus spoils in layers not exceeding 12-inches when loose and compact to 95% of Standard Proctor Density. Fill slopes at the ends and sides of the filled area shall not exceed

6:1. The filled area shall be shaped to drain and neatly constructed. Respread all previously salvaged topsoil evenly over the filled area. Restore grass turf per non-urban/lawn requirements as specified elsewhere.

All work as described or implied herein, such as stripping, salvaging, stockpiling, hauling, placing, compacting, shaping, respreading and disposal of waste, along with all mobilization, labor, tools and equipment necessary to complete the work shall be considered incidental to construction.

Erosion controls (such as silt fence around stored topsoil, ditch checks, etc.) and restoration of turf shall be measured and paid for separately.

## **20. SALVAGE AND REUSE EXISTING AGGREGATE (DRIVEWAYS)**

Where designated on the plans or required by the Engineer, the Contractor shall salvage existing aggregate material from the existing driveway (Draxler Drive extended) within the limits of construction/disturbance. Salvage as much (depth) material as practical without mixing the layers and/or contaminating with underlying subsoils. Segregate, haul, store and protect material as necessary. Restore said driveway to the original width and thickness using salvaged aggregates, re-spread and compacted.

The gravel driveway for Draxler Transport north of the asphalt cul-de-sac of Draxler Drive was constructed with a 12-inch subbase of shale/sandstone/sand with an 8-inch gravel/granite surface. Note: These layers and thicknesses have not been confirmed/measured in the field.

Contractor shall supply, place and compact a make-up lift of gravel for the finished gravel surface. Said make-up gravel shall be Base Aggregate Dense,  $\frac{3}{4}$ " as specified elsewhere in the Standard Specifications, and 2-inches thick. This volume of gravel will be measured and paid for as "Base Aggregate Dense,  $\frac{3}{4}$ ", In-Place, measured per Cubic Yard (In-Place), per Standard Specifications.

The restored gravel surface roadway shall be graded and rolled/compacted to provide good ride characteristics. In addition, the gravel surface at manholes and valve boxes which are located within the driving surface shall be fine graded to provide asphalt aprons around said appurtenances. Asphalt aprons at manholes shall be 10' x 10' and 5' x 5' at valves. All asphalt aprons shall be 3" thick (asphalt by others).

This work shall be measured and paid for at the contract unit price, per Square Yard of the surface of the driveway regardless of the number of aggregate layers and thickness of said aggregate driveway. Payment shall constitute full compensation for all work including but not limited to salvaging, hauling, storing, protecting, re-spreading, compacting, grading, fine grading and disposal of waste, along with all labor, tools, equipment and incidentals necessary to complete the work.

## **21. TRENCH PLUGS/CLAY DAMS**

The Contractor shall be required to install Trench Plugs/Clay Dams in lieu of normal bedding and cover materials at locations shown on the plans, noted within the Standard Specifications and these Special Conditions. Locations for Trench Plugs/Clay Dams shall include:

- Sanitary Sewer Mains – at approximately 20' upstream of manholes.

Trench Plugs shall be constructed using suitable native clay material, placed in layers not exceeding 8-inches when loose, compacted by hand (using vibrator rammer/tamping plate, etc.), extending 6 lineal feet along the pipe and full width of the trench, in lieu of bedding/cover materials. Trench Plug/Clay Dam material shall be placed around the pipe(s) without voids and without damaging the pipe.

All work associated with Trench Plugs/Clay Dams, including materials, placing, compacting, downtime/delay/loss of production, along with all labor, tools and equipment shall be considered incidental to construction and will not be measured/paid for separately.

## **22. RESTORATION OF TURF SURFACES**

Turf surfaces shall be restored in accordance with the plans, the City's Standard Specifications and these Special Conditions. Topsoil salvage, processing, preparation and seed mixture shall comply with the following requirements:

Contractor shall salvage all topsoil from all areas to be disturbed. Salvaged topsoil shall conform to Section 625 of WisDOT Standard Specifications with the following additional requirements:

1. All topsoil shall be stripped/segregated/stored prior to excavating and trenching.
2. The thickness of re-spread topsoil shall be the same as existing conditions prior to the work.
3. Topsoil shall typically be placed as desired for rural restoration. However, private lawns shall receive special preparation and shall be treated as "urban areas" as required in Standard Specifications.
4. All costs associated with salvaging and re-spreading topsoil shall be included in bid for respective turf restoration items.

Urban/Lawn Areas: Restore to a well-groomed lawn condition using imported processed topsoil. Seed using City Seed Mix (2016) at 5 lbs. /1000 SF. Cultipack before and after seeding to develop a firm seed bed and ensure good seed-soil contact. This work shall be paid for at the Contract Unit Price for Finished Terraces (Urban) – City Seed Mix (2016), per Square Yard.

Non-Urban/Lawn Areas: Restore similar to pre-existing conditions using salvaged topsoil. Seed using WisDOT seed mixture #40 at seeding rate of 2 lbs. /1000 square feet. This work shall be paid for at the Contract Unit Price for Turf Restoration (Non-Urban/Lawn), per Square Yard.

For areas within wetlands, salvage, store and respread existing soils and use WisDOT seed mixture #10 at seeding rate of 1 lb/1000 square feet. Rutted, compacted and other disturbances shall be dragged, scarified, leveled, etc. and restored to pre-existing conditions. This work shall be considered incidental to the work.

## **23. EROSION CONTROLS**

To comply with storm water permits and/or protect waters or wetlands, the Contractor is required to install erosion controls (per the City's Standard specifications, Section 18) prior to the start of construction/excavation.

Plan details and specifications not only require timely installation, but also proper installation of approved materials. The Contractor is also responsible for maintenance of all erosion controls throughout the duration of the project.

Contractor shall install Type B or Type C Inlet protection on all existing drainage structures, rock bag ditch checks and/or culvert pipe ditch checks on all upstream culvert ends within project and/or hauling limits. Silt fence will be required for all work within wetland areas, including installation along the R/W and downgradient edges of each work area and around all spoil piles.

Contractor shall control erosion as indicated on the plans, discussed in the Standard Specifications, required by permit and as directed by the City Engineer. Work under this section, Erosion Control-Project, will include but is not limited to installation, maintenance and removal of vehicle tracking pads, storm water discharges, pit/trench water discharges and all other erosion and sedimentation control measures not measured and paid for separately.

Erosion Control-Project shall be measured and paid for at the contract unit price per lump sum. Said payment shall constitute full compensation for all work as described, along with all disposal of waste, materials, labor, tools, equipment and incidentals necessary to complete the work.

The City Engineer reserves the right to deduct 50% or more of the contract unit prices for erosion controls due to the Contractor's use of deficient materials, improper installation, untimely installation and/or lack of maintenance of any or all erosion controls. The City Engineer also reserves the right to remedy (all of the above) utilizing City forces or others, with the cost of said remedy(s) either billed to the Contractor or deducted from final payment.

#### **24. 14-INCH HDPE WATER MAIN (DIPS SDR11) INSTALLED VIA HDD**

##### **A. Description**

The Contractor shall provide 14-Inch HDPE DIPS SDR11 pipe for bored water main pipe and install said pipe via horizontal directional drilling means and methods.

The Contractor shall have reviewed/studied available project information, and conducted additional investigation as necessary to assure that this pipe can be installed at the location, depth, grades, etc. as indicated on the Plans and required by the Specifications.

##### **B. Materials**

HDPE pipe shall be 14-Inch nominal diameter, Ductile Iron Pipe Size (OD = 15.30" ID = 12.35"), SDR 11, PE 3608/4710. Pipe shall be black with blue striping. Pipe segments shall be jointed by thermal butt fusion per ASTM F2620, by trained operators. Submit materials details to the City Engineer.

Bedding, cover and backfill materials shall comply with plan details and the Standard Specifications as required for water mains.

Water to be utilized for this work shall be potable water obtained from a reliable/consistent source. Contractor is responsible for obtaining, transporting and storing water. Do not obtain water from a fire hydrant unless approved by Marshfield Utilities (requires use of a meter and backflow preventer, contact Dave Wasserburger, MU Water Superintendent, 715.387.1195). Water can be purchased at the Marshfield Utilities office (2000 South Central Avenue) or City of Marshfield – Public works – Street Division – City Garage (407 West 2<sup>nd</sup> Street).

##### **C. Construction**

Prior to commencing HDD operations, review construction limits and access (as specified elsewhere within these Special Provisions), schedules, procedures, etc. with the City Engineer including but not limited to pits, excavations, drill stem entry, pilot hole alignment (horizontal and vertical), reaming, borehole abandonment, appurtenance (hydrants, valves, manholes) installation, etc. Special equipment and/or materials such as but not limited to tracked loaders and/or planking/matting may be needed to access remote excavation areas.

The City Engineer will provide line and grade stakes for all connections (valves, hydrants, tees, etc.), alignment breaks (horizontal and vertical) and at intermediate points (50-foot spacing). If additional stakes are necessary for proper installation these shall be the Contractor's responsibility.

HDPE water main pipe shall be continuous, without changes of pipe materials, sleeves, adaptors, couplings, etc., except as required on the plans. HDPE joints shall be butt fused only, electro

fusion sleeves/couplings/fittings are not allowed. Tracer wire and provisions are required for this installation as specified elsewhere within these Special Provisions.

HDPE pipe shall be carefully handled during string-out, assembly and pull-in operations. Protect the pipe from damage by utilizing shields, rollers, swivels and/or other devices to prevent damage to HDPE pipe from sliding over hard surfaces, excessive pulling loads, torsional stress, etc.

Installation shall comply with the line and grade as required on the plans. Contractor shall utilize instrumentation which will accurately monitor the installation including location of pilot hole (horizontal and vertical); and measurement of axial/torsional loads, drilling fluid discharge rate and pressure, pulling forces, etc. Record and document accurate location, depth/elevation information for Record Drawings and provide this information to the City Engineer within 24 hours of completion of HDD operations.

Drilling fluids shall be contained on the ground surface and removed/disposed of off-site. Drilling fluid returns at locations other than the entry and exit points shall be minimized, contained, cleaned up and disposed of promptly. Contractor shall employ best management practices and efforts to maintain full annular circulation of drilling fluids.

HDPE pipe shall be allowed to equalize/relax for at least 12-hours following completion of HDPE – HDD operations and before connecting to hydrant tees, manholes/structures, etc.

Except for the HDPE pipe materials and HDD installation, all other requirements indicated on plan details or described in the Standard Specifications shall apply to this water main, including but not limited to excavation/backfill/compaction, pressure testing, etc.

Ductile Iron water mains (branch runs, hydrant leads, etc.) shall be constructed per plan details and Section 19 of the Standard Specifications.

Damaged turf resulting from excavations related to 14" HDPE Water Main and/or appurtenances (such as bore pits, hydrants, valves, valve manholes, dewatering, etc.) and accessing of these areas shall be restored in accordance with the Special Conditions (specified elsewhere within these Special Provisions), however these areas will not be measured for payment but will be considered incidental to construction.

#### **D. Measurement and Payment**

14-Inch HDPE DIPS SDR11 installed via HDD will be measured per lineal foot, from center of valve/fitting to center of valve/fitting (inclusive of lengths removed for insertion of hydrant tees (with mainline gate valves) and valve manholes).

Payment at the contract Unit Price shall constitute full compensation for all work, including but not limited to accessing, stripping/salvaging topsoil, excavation, string-out, fusing, drilling, monitoring, recording, assembling, pulling, protecting, containing, equalizing, connecting, backfilling, compacting, disinfecting, filling, flushing, testing, restoration, clean-up and disposal of waste; along with all materials (pipe, etc.) labor, equipment, tools and incidentals necessary to complete the work.

It is hereby recognized that installation of HDPE pipe, continuous may warrant additional work efforts to accomplish this requirement. This additional work shall be considered incidental to construction.

Note: Additional work, measures, materials, etc. as may be necessary for bored installation, including but not limited to removing cobbles/ boulders, stabilizing working platform(s), drilling through dense soil, drying and/or providing suitable native backfill material, above normal equipment wear/maintenance etc. shall be considered incidental to construction.

Ductile iron water main, connections (tees/fittings), hydrant leads, valves, hydrants, etc. will be measured and paid for per Section 19 of the Standard Specifications.

## **25. ALTERNATE 12-INCH DUCTILE IRON PIPE (INSTALLED VIA HDD)**

The City Engineer will consider an alternate pipe material for bored water main pipe (installed via horizontal directional drilling means and methods) as a substitute for the 14" HDPE DIPS SDR 11 pipe. Installation of the alternate pipe material shall comply with pertinent requirements for "14-Inch HDPE Water Main (DIPS SDR11) Installed Via HDD" as specified within these Special Conditions.

The alternate pipe material shall be 12" Ductile Iron Pipe, Class 52 conforming to AWWA C150/C151, 350 psi working pressure with cement-mortar lining per AWWA C104. The Ductile Iron Pipe for bored/HDD installation shall include an enhanced exterior coating (as the trenchless installation does not accommodate polywrapping) to prevent corrosion, consisting of zinc (200g/m<sup>2</sup>) with a finish layer topcoat (2-3 mils) as manufactured by American Ductile Iron Pipe or approved equal. Joints shall be push-on with restraining/locking gaskets. Electrical conductivity provisions are required. Tracer wire is not required.

Alternate pipe materials are not allowed between valve manholes (crossing Mill Creek).

The City Engineer will review all pertinent bid item prices/costs to determine if the alternate pipe material is feasible. If the alternate pipe material is selected, the quantities of base bid pipe materials, including appurtenances, will be reduced and/or eliminated.

Alternate 12-Inch Ductile Iron Pipe (Installed via HDD), if selected, will be measured per lineal foot, from center of valve/fitting to center of valve/fitting (inclusive of length's removed for insertion of hydrant tees (with and without mainline gate valves) and valve manholes).

## **26. SPECIAL WATER MAIN FITTINGS**

Contractor shall provide and install water main fittings, including special/non-typical fittings, as required on the plans, Special Conditions and Standard Specifications. Special Water Main Fittings shall be as discussed below.

- 14" x 12" Compact Reducer Flange: Required at Water Valve Manholes. These special flange reducers are incidental to the Water Valve Manhole item(s).
- 14" x 12" Reducer, MJ Large End x PE: Required at hydrant tees with mainline gate valves installed on 14" HDPE Water Mains. These reducers will be measured and paid per Each, in accordance with Section 19 of the Standard Specifications.
- 14" x 6" Tapping Sleeve: Required at hydrant tees (without mainline gate valves) installed on 14" HDPE water mains. The 14-inch by 6-inch tapping sleeve shall be all stainless steel with a mechanical joint connection. Tapping sleeve shall meet at AWWA C223 standards. Tapping sleeve body shall have a full circumference 18-8 type 304 stainless steel band. Gasket shall be Nitrile (Buna-N) NSF 61 compounded. Temperature shall be rated to 180°F. All bolts, nuts and washers shall be 18-8 type 304 stainless steel heavy hex nuts, stud bolts and washers. Nuts and washers shall be coated to prevent galling. Tapping sleeve shall be a smith-Blair 663 or approved equal. Tapping Sleeves shall be installed per plan details and the manufacturer's recommendations, and measured and paid for per Each, similar to other main fittings.
- 14" Stiffening Inserts: Required at (cut) ends of 14" HDPE (DIPS SDR11) water main pipe. Pipe stiffeners shall be one-piece with a flared end (exposed) and a tapered end (inserted), type 304 stainless steel, properly sized to accurately fit the HDPE pipe and length to fit the desired fitting (6" typical). Pipe Stiffeners shall be measured and paid for per Each successfully installed (per manufacturer's recommendations).

- 12" Restrained Flange Adaptor: Required at Water Valve Manholes for connection of the alternate 12" DIP to the 12" Flanged Gate Valve. 12" Restrained Flange Adaptor shall be Series 2100 Megaflange, as manufactured by EBAA Iron, Inc. These Restrained Flange Adaptors are incidental to the Water Valve Manhole item(s).

## **27. WATER VALVE MANHOLES**

### **Description**

Contractor shall install Water Valve Manholes adjacent to and on each side of Mill Creek as shown on the plans. Valve Manholes shall be constructed in accordance with plan details, Standard Specifications and these Special Conditions.

### **Materials**

Manholes shall be precast concrete and comply with all requirements for sanitary sewer manholes. The manhole base and bottom section shall be integral (no flowline); risers shall be 60-inch inside diameter with sealed joints (two butyl seals plus joint wrap) and steps; and the uppermost section shall be a keyed flat top. Pipe connections shall utilize rubber boots. Watertight construction is required.

Manhole Covers shall be machined bearing with sealed lid as shown on plan details and similar to sanitary manhole covers Type JM except Water Valve Manhole lids shall be labeled 'Water'. Manhole Cover shall be sealed however a chimney seal is not required. Manhole Cover shall be secured to the concrete manhole (1/2" Concrete Anchor Lag Bolts, 4 Required).

Gate Valves shall be 12-inch and conform to Section 19 of the Standard Specifications; however the valve shall include flanged connections.

Special fittings shall comply with specifications described elsewhere within these Special Conditions.

Service Saddles and Corporation Stops, 1-inch, shall conform to Section 19 of the Standard Specifications, however handles are required for operation.

Markers shall be fiberglass posts, extending 4-feet above the manhole rim, blue in color, as manufactured by Omega Marking Co., or approved alternate.

### **Construction**

Manhole construction shall conform to all requirements for sanitary manholes, as shown on plan details and specified in the Standard Specifications. The floor shall be level, walls plumb and steps aligned. It is recognized that the actual, as-constructed elevations of the manholes could vary, dependent upon the actual, as-constructed elevations of the bored HDPE water main. Contractor shall verify depth of the (bored) water main prior to installing manholes such that the manholes will comply with plan details with the rim of the manhole cover at or above the 100-year flood elevation. Note: Steps are also required on the exterior of the manhole (likely to be installed after manhole installation).

Watertight construction is required (including rubber boots with 2 band clamps each, butyl gasket(s)/wrap on tongue and groove riser joints, and sealed manhole cover).

HDPE water main pipe shall be directly connected to the flanged gate valve with fused flange adaptors. Flange spacers will be allowed but shall not exceed 2-inches total (each manhole). Two (2) gaskets are required at each flanged connection of the gate valve.

Contractor shall prepare a plan addressing the method of installation of the HDPE pipe at/into the manhole. The City Engineer will consider the following alternatives:

- A. Butt-fuse HDPE flange adaptor(s) to HDPE pipe within the manhole (typical manhole booted connection).
- B. Butt-fuse HDPE flange adaptor(s) to HDPE pipe stub(s) (remotely done) and insert assembly into manhole (typical booted connection), thru manhole wall/boot and then butt-fuse to (bored) HDPE water main.
- C. Butt-fuse HDPE flange adaptor(s) to HDPE water main pipe and then install manhole over said assembled HDPE water main pipe using a specially constructed manhole with larger rough-opening hole(s). Rough opening holes shall be formed and filled with ready-mix concrete; with pipe entrances sealed using an Earth Shield water stop.

The 12" flanged gate valve shall be entirely supported on solid concrete blocks and non-shrink grout, which shall transfer the entire weight/load of the valve to the manhole floor.

### **Measurement and Payment**

Water Valve Manholes will be measured as a complete unit/assembly, per Each, per location, regardless of manhole depth. Payment at the Contract Unit Price shall constitute full compensation for all work, materials and components, including but not limited to accessing, stripping/salvaging topsoil, excavation, fusing, assembling, protecting, connecting, backfilling, compacting, restoration, clean-up and disposal of waste; for providing/assembling/installing/finishing manholes, manhole covers, gate valves, fittings, service saddles, corporation stops, etc., along with all labor, equipment, tools and incidentals necessary to complete the work.

Note: Valve manhole components will vary slightly for the selected bored water main pipe material, HDPE (base bid) vs DIP (alternate), excluding the segment between the valve manholes. Alternate bid items for valve manholes (with alternate 12-Inch Ductile Iron Pipe (Installed Via HDD)) are included and detailed on the plans.

## **28. HYDRANTS (INC. HYDRANT LEADS, CONNECTIONS AND EXTENSIONS)**

There are several non-typical hydrant issues on this project, including type of hydrant tee connection to bored HDPE water mains, vertical alignment of hydrant leads and varying bury depths for hydrants, with one location requiring a hydrant extension, as discussed below.

Hydrant leads connected to bored water mains shall comply with plan details, along with these Special Conditions (also see Special Fittings) and the Standard Specifications.

At select locations (STA 70V+90, STA 76V+90) the hydrant lead will require a bend to achieve the proper vertical alignment transition (tee to auxiliary gate valve). Contractor shall rotate the hydrant tee to the same deflection angle as the bend, provide a level setting of the hydrant lead from the hydrant thru the gate valve and said bend. Note: The bend shall be 3-feet from the auxiliary gate valve (center to center) as a minimum. Joint restraint is required.

Hydrants shall be as specified in Section 19 of the Standard Specifications. Bury depth shall be as indicated on the plan sheets and unit price schedule. Hydrants shall be provided as a complete unit manufactured to the proper bury depth, from the factory/manufacturer, without any hydrant extensions.

The proposed hydrant at 34<sup>th</sup> Street (STA 82V+49) is very near to an existing water main and the exact depth/elevation of said water main is unknown. At this location, the Contractor shall install a 9' bury hydrant per plan; however an extension will likely be required to achieve a proper vertical setting. After initial installation of the hydrant, Contractor and City Engineer will determine the height

of the hydrant extension to be installed. Contractor shall order, provide and install said extension as soon as possible. Several heights of extensions are listed on the unit price schedule, however only a single extension shall be installed, at this location only. Hydrant Extension(s) shall be as specified in Section 19 of the Standard Specifications; however the 12" maximum height limit is waived for this location.

Hydrants to be installed within WisDOT R/W along STH 13/CTH A/Veterans Parkway (excluding the hydrant at 34<sup>th</sup> Street) shall be rotated (heads) such that the large nozzle connection faces the highway. All other hydrants shall be rotated (heads) such that the large nozzle connection faces the street (34<sup>th</sup> Street, Draxler Drive).

## **29. 12-INCH WATER MAIN (DEAD-END) CONCRETE BUTTRESS**

Contractor shall install a concrete buttress/reaction backing to protect the dead-ended water main at the south end of main along STH 13/CTH A/Veterans Parkway (STA 60V50). The buttress is in addition to mechanical joint restraint as required elsewhere.

Concrete shall be ready mix, 6-bag, Grade A, and not less than 4000 psi compressive strength at 28 days.

The buttress shall bear against firm undisturbed ground (assumed to be silty/clayey soil with or without sand, safe bearing load of 2,000 lbs./SF) with a total thrust support area of 16 SF, minimum.

Note: This thrust support area is calculated for a 12-inch dead-end main at 150 psi with a 1.5 safety factor, for the assumed soils. If existing soil conditions differ from the assumed soils, the City Engineer shall reconsider the size of the buttress however the stated size shall not be decreased.

Concrete shall be formed (sides only) from said undisturbed wall (on-line) to the dead-ended pipe. Forms at the pipe shall prevent concrete from covering or encapsulating the pipe/fitting joints and bolts. Place lifting loops (2) within the concrete for future removal. Forms do not need to be removed.

Reinforcement is not required; however the concrete shall be properly placed, consolidated and finished (as specified elsewhere).

12-Inch Water Main (Dead-End) Concrete Buttress shall be measured as a complete unit, per Each. Payment at the contract unit price shall constitute full compensation for all work and materials, including but not limited to excavation, preparation, forming, pouring, placing, consolidating, finishing, clean-up and disposal of waste, etc.; including concrete, forms, lifting lugs, etc., along with all labor, tools, equipment and incidentals necessary to complete the work.

## **30. CONNECT NEW PVC SANITARY SEWER PIPE TO EXISTING MANHOLE**

Where indicated on the plans, new PVC sanitary sewer mains shall be connected to existing sanitary manholes. The proposed PVC pipe connection shall be water-tight and grouted in accordance with plan details and the standard specifications for new manholes. In general the work shall include the following: core/hole saw the existing precast concrete manhole wall, install new rubber boot and grout the annular space/mortar seal. The existing flowlines within the manhole shall also be reworked to provide extremely smooth surfaces through grinding, abrading and/or rubbing of the entire length of all existing flowlines within the existing manhole.

Connect New PVC Sanitary Sewer Pipe to Existing Manhole as described herein shall be measured per Each, per size, and paid for at the contract unit price. Said payments shall constitute full compensation for the work including but not limited to removal, preparation, reworking, installation,

clean-up, and disposal of waste, along with all materials, labor, equipment, tools and incidentals necessary to complete the work.

**31. SPECIAL SANITARY MANHOLE FLOWLINE CONFIGURATION**

All proposed sanitary sewer manholes shall include 2-8" branch flowlines (in addition to the two main/run flowlines) as shown in sanitary manhole detail unless otherwise noted in plan and profile sheets. Manhole manufacturer shall not cast holes through manhole walls for these branch flowlines unless otherwise noted in plan and profile sheets (incidental to construction). Each of the three upgradient flowlines shall be sloped to provide a 2-inch drop to the discharge invert. All four flowlines/troughs shall be ground/abraded/rubbed such that these surfaces are extremely smooth.

**32. CLEANING AND TELEVISIONING OF NEW SANITARY SEWERS**

The Standard Specifications require that all sanitary sewers shall be clean at the completion of construction. For this project, the Owner/City of Marshfield will be televising all sewers and will provide a light cleaning of said sewers through a one-pass jetting using the Wastewater Utility's Vactor truck. This light cleaning will be done immediately prior to televising. Contractor shall provide access to sanitary manholes for City forces and equipment via the compacted and leveled subgrade (topsoil to be placed after completion of work by City forces). Work by City forces shall include cleaning of pipelines using a tandem axle Vactor truck and televising of manholes and pipelines using a single axle truck and closed circuit televising trailer. If sewer condition is such that a one-pass light cleaning is not enough to result in a 'clean' pipe due to the amount of waste/debris within the lines, the Contractor shall be responsible for additional cleaning efforts and costs by City forces or others. Contractor shall coordinate with the Owner regarding the schedule for cleaning and televising. It is the Owner's intention to clean and televise during normal work hours, minimizing the number of mobilizations to/from the work site. If additional cleaning is to be done by City forces, the Contractor will be charged per time and materials basis.

**33. TRACER WIRE**

**Description**

Contractor shall install tracer wire(s) for proper locating (using typical line tracing equipment (low frequency signal)) of water mains (as described below), installed via trenchless or open-excavation methods, in accordance with the plans, Standard Specifications and this Special Condition.

Tracer wire(s) are required for all non-metallic pipe mainline water main runs, metallic pipe mainline runs which complete a link with a non-metallic pipe run (to a hydrant terminal/test station), and hydrant leads (mainline to hydrant) connected to either mainline water main runs as described above. Two tracer wires are required, each to be continuous without looping, and connected to hydrant test stations.

**Materials**

Tracer Wires shall be #12 AWG copper-clad steel with HDPE insulation rated for direct burial, 30 volts, and 1,150 lb. average tensile break load; and shall be SoloShot EHS as manufactured by Copperhead Industries, LLC. Colors shall be blue and white (2 wires).

Test Stations shall be 3-terminal with shorting jumper(s) and shall be Cobra T3 as manufactured by Copperhead Industries LLC. Color shall be blue. Conduit shall be 1-inch PVC Sch 80. Mounting hardware (for mounting to fire hydrant traffic flange) shall be stainless steel.

Grounding anodes shall be 1-lb. magnesium drive-in grounding rod with a protective pounding cap and sufficient length of #14 AWG copper-clad steel grounding wire integrally connected to the anode at the factory, as manufactured by Copperhead Industries LLC.

Wire Connectors shall be waterproof, corrosion proof and rated for direct bury as manufactured by Copperhead Industries, LLC. Mainline wires shall be spliced using SnakeBite Locking Connectors. Hydrant lead branch runs shall be connected to mainline wires using DryConn 3-way Direct Bury Lug Connectors.

### **Construction**

Tracer wires shall be bored with the bored segments of water main, or installed concurrently with open-excavation segments, and when completed shall be two, continuous single wire systems, with branch terminals at each hydrant along/abutting non-metallic water main runs.

Open-excavation installations shall comply with the following:

- Install tracer wire on the north or west sides of pipes.
- On horizontal runs, tracer wire shall be located 45° below springline.
- Fasten tracer wire to pipe using approved tape or plastic ties, spaced 5-feet apart (max.) and within 1-foot of a valve/fitting gland.
- Tracer wires shall be installed outside the polywrap on ductile iron pipes.
- Tracer wire shall not be directly connected to any (metallic) pipe, fittings, valves, etc.
- No uninsulated wire shall be exposed or buried.

Use of splice (i.e. end-to-end) connections shall be minimized and will only be allowed at intermediate points as approved per Contractor's boring plan. Provide additional lengths of tracer wire to cover metallic mainline water mains running beyond the limits of the non-metallic mainline water main – extend these tracer wires to the Test Station.

Connectors shall be installed in accordance with the manufacturer's recommendations.

Test Stations, intended to be used for locate personnel access to tracer wires, shall be assembled, mounted and installed in accordance with plan details, Standard Specifications, these Special Conditions and manufacturer recommendations. For consistency, mount Test Stations to the Northwest corner of hydrant traffic flanges.

Tracer wire systems shall pass locating tests, per hydrant to hydrant segments, using typical low frequency (512 Hz) line tracing equipment. Testing shall be done in the presence of the City Engineer and Contractor, after backfilling and restoration. Defects shall be found, and repaired in a manner consistent with these Special Conditions, to the satisfaction of the City Engineer. Damaged materials shall be removed and replaced (taping, spray coating, etc. not allowed).

### **Measurement and Payment**

Tracer Wire shall be measured per Lineal Foot of individual tracer wire runs, with horizontal run measurements based upon water main measurements, from center of hydrant to center of hydrant (through valves, manholes, fittings, etc.) and vertical run measurements at hydrants based upon the designated hydrant bury of each individual hydrant; including all materials (wire, connections, fasteners, etc.).

Test Stations shall be measured per Each, as a complete assembly (includes conduit, hardware, wire connections, etc.).

Grounding Anodes shall be measured per Each, as a complete assembly (includes anode, grounding wire, wire connections, etc.).

Payment at the Contract Unit Prices shall constitute full compensation for all work and materials, including but not limited to installing, assembling, protecting, connecting, fastening, testing, repairing, clean-up and disposal of waste; along with all materials, labor, equipment, tools and incidentals necessary to complete the work.

### **34. TRAFFIC CONTROL**

The existing highway, STH '13'/CTH 'A'/Veterans Parkway shall remain open at all times, without reduction of lane widths or posted speed limits. All existing signs and traffic signals shall not be obstructed and shall be visible by motorists at all times.

The Wisconsin DOT defines the Clear Zone of STH '13' and CTH 'A' as any point between the edge of the traveled way and a line offset 28' from the edge of traveled way. Any stopped vehicles/equipment and/or work within the Clear Zone of STH '13' or CTH 'A' would require closing the shoulder along with the appropriate traffic control measures, however this shall not be allowed for this project.

Draxler Drive shall remain open from Heritage Drive to WisDOT's Park-N-Ride but will be closed north of the driveway for the Park-N-Ride.

Temporary Precast Concrete Barriers. Contractor shall utilize temporary precast concrete barriers when excavation is to remain open overnight within the Clear Zone or when materials, equipment, spoil, shoring, etc. will remain overnight within the Clear Zone. Approximate barrier locations are shown in plans; however Contractor will be required to adjust location and extent of barriers based on actual size of excavations. Contractor may use 10'-0" or 12'-6" concrete barriers; however 10'-0" barriers and 12'-6" barriers are not to be intermixed in any single run or installation. Barriers are required at the excavation for the connection to the existing water main at 34<sup>th</sup> Street. All costs associated with providing, installing, and removing of barriers shall be included in bid item for Temporary Precast Concrete Barriers at 34<sup>th</sup> Street. If Contractor's operations require additional locations of Temporary Precast Concrete Barriers due to occupying/encroaching/using right-of-way within the Clear Zone then said additional work/locations will be considered incidental and will not be measured and paid for.

**This Page Intentionally Left Blank**

**AVAILABLE PROJECT INFORMATION****A. PERMITS & APPROVALS**

Portions of the proposed work will require permits, licenses and/or approvals from various agencies. Said documents are included with these Special Provisions if available, or will be provided to the Contractor when available. These documents include:

**Wisconsin Department of Natural Resources – Storm Water Permit (NR216)**

**Wisconsin Department of Natural Resources – Sanitary Sewer Extension**

**Wisconsin Department of Natural Resources – Water Main Extension**

**Wisconsin Department of Natural Resources & US Army Corps of Engineers – Wetlands (General) Permit**

**Wisconsin Department of Transportation – Utility Permit**

**Wood County Highway Department – Right-of-Way Permit**

Contractors should note that if discrepancies are found between the plans and specifications and said permits, licenses and/or approvals, the permits, licenses and/or approvals will govern.

It will be understood that all Contractors must fully comply with all provisions of these permits as if the Contractor were the applicant of said permit.

Additional permits, licenses or approvals, if necessary, shall be the Contractor's responsibility.

**B. GEOTECHNICAL INFORMATION**

Geotechnical information is hereby made available for this project, as discussed herein, however said geotechnical information/subsurface exploration data was originally conducted for other, nearby, recent projects. Said geotechnical information/subsurface exploration data includes the following:

1. Subsurface Boring Logs, Borings B7, B8 and B9 (2010).
2. Subsurface Exploration, WisDOT Structure B-71-171, Boring No. 1 and Boring No. 2 (2008).
3. Subsurface Exploration, WisDOT Structure B-71-106, Borings MC1, MC2 and MC3 (2002).

Note: This information is provided for reference only, as a general indication of materials encountered during recent public infrastructure projects. This data was not acquired for the currently proposed project and actual subsurface conditions will likely differ and vary. Contractor shall not rely upon the accuracy of said data nor make any claims related to said data.

The inclusion of geotechnical information/subsurface exploration data does not supersede Contractor's obligations as discussed in the Standard Specifications, Section 1.3.23, Local Conditions. The Bidder and/or Contractor is responsible for making their own investigations as necessary for construction purposes and for them to adequately perform the work in accordance with the Plans, Special Provisions and Standard Specifications.

**This Page Intentionally Left Blank**

## Boring Table/Summary:

<b>Boring ID</b>	<b>Station</b>	<b>Offset from 'V' Reference Line</b>
B7	62V+00	63' LT
B8	67V+50	69' LT
B9	79V+00	66' LT
Boring No. 1	72V+19	49' LT
Boring No. 2	73V+09	47' LT
Boring MC1	73V+21	42' RT
Boring MC2	72V+65	2.5' RT
Boring MC3	73V+14	2.5' RT

**SUBSURFACE BORING LOG**

AET JOB NO: **16-03463**

LOG OF BORING NO. **B-7 (p. 1 of 2)**

PROJECT: **Sanitary Sewer Interceptor; Marshfield, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: <b>1215.0'</b> MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS					
							WC	DEN	LL	PL	%-#200	
1	ORGANIC CLAY, dark brown, frozen to about 2 feet (OH)	SWAMP DEPOSITS		F/M	DS							
2												
3												
4												
5	SILTY SAND, fine to medium grained, orangish brown, moist, medium dense (SM)	COARSE ALLUVIUM	16	M	SS	24					12	
6												
7												
8	SAND WITH GRAVEL, medium to fine grained, brown, waterbearing, loose (SP)			▼								
9												
10			9	W	SS	24					5	
11												
12	SAND WITH SILT, a little gravel, medium to fine grained, brown, waterbearing, medium dense (SP-SM)											
13												
14												
15												
16	SILTY SAND, fine grained, mottled brown to dark brown to tan, waterbearing to moist, loose to medium dense to dense (SM) 18 FT: INVERT DEPTH	WEATHERED BEDROCK	11	W	SS	18					6	
17												
18			5	W/M	SS	20	23					
19												
20												
21												
22			26	M	SS	24						
23												
24												

DEPTH	DRILLING METHOD	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5'	3.25" HSA								
9.5-29.5'	RD w/DM	2/17/10	13:15	11.5'	9.5'	8.0'	---	8.0'	
		2/17/10	14:15	31.5'	9.5'	31.5'	0'	---	
BORING COMPLETED: 2/17/10									
DR: MD LG: BM Rig: 84									



**AMERICAN  
ENGINEERING  
TESTING, INC.**

### SUBSURFACE BORING LOG

AET JOB NO: **16-03463**

LOG OF BORING NO. **B-7 (p. 2 of 2)**

PROJECT: **Sanitary Sewer Interceptor; Marshfield, Wisconsin**

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-#200
26	SILTY SAND, fine grained, mottled brown to dark brown to tan, waterbearing to moist, loose to medium dense to dense (SM) <i>(continued)</i>	WEATHERED BEDROCK <i>(continued)</i>	50	M	SS	24					
27											
28											
29											
30	CLAYEY SAND, greenish gray, hard, highly weathered (SC)		50/4	M	SS	12					
END OF BORING AT 30.4 FT											



# SUBSURFACE BORING LOG

AET JOB NO: **16-03463**

LOG OF BORING NO. **B-8 (p. 1 of 2)**

PROJECT: **Sanitary Sewer Interceptor; Marshfield, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: <u>1209.6'</u> MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-#200
1	ORGANIC CLAY, dark brown, frozen to about 2 feet (OH)	SWAMP DEPOSITS		F/M	DS						
2											
3											
4											
5	SILTY SAND, a little gravel, fine to medium grained, brownish gray, waterbearing, loose (SM)	COARSE ALLUVIUM	8	W	SS	24	13				41
6											
7											
8	GRAVELLY SAND WITH SILT, medium to coarse grained, brownish gray, waterbearing, loose (SP-SM)		9	W	SS	12					8
11											
12	SAND WITH SILT AND GRAVEL, fine to medium grained, brownish gray, waterbearing, loose (SW-SM)		10	W	SS	14					9
13											
14	SANDY SILT, a little gravel, gray, waterbearing, loose (ML) 16 FT: INVERT DEPTH	FINE ALLUVIUM	8	W	SS	8	20				
15											
16											
17											
18											
19	SILT, gray, waterbearing, very loose (ML)		4	W	SS	24	27				
20											
21											
22											
23											
24											

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5'	3.25" HSA								
9.5-24.5'	RD w/DM	2/17/10	11:30	11.5'	9.5'	9.1'	---	2.6'	
		2/17/10	12:15	26.5'	9.5'	26.5'	0'	---	
BORING COMPLETED: 2/17/10									
DR: MD LG: BM Rig: 84									



## SUBSURFACE BORING LOG

AET JOB NO: 16-03463

LOG OF BORING NO. B-8 (p. 2 of 2)

PROJECT: Sanitary Sewer Interceptor; Marshfield, Wisconsin

DEPTH IN FEET	MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-#200
26	SILTY SAND, a little gravel, fine to medium grained, brown, waterbearing, loose (SM) <i>(continued)</i>	COARSE ALLUVIUM <i>(continued)</i>	7	W	<del>SS</del>	24					28
	END OF BORING AT 26.5 FT										



# SUBSURFACE BORING LOG

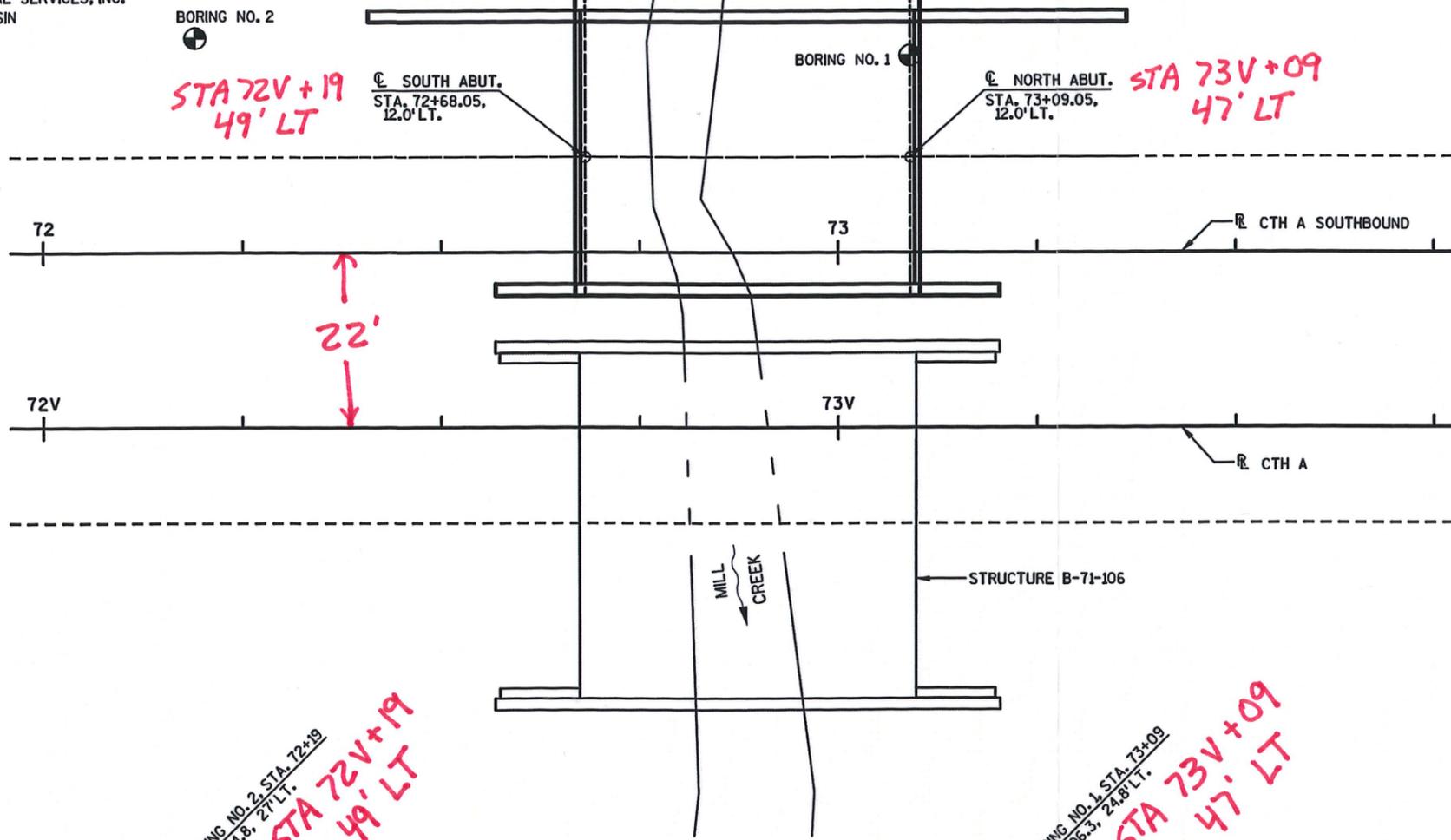
AET JOB NO: 16-03463 LOG OF BORING NO. B-9 (p. 1 of 1)  
 PROJECT: Sanitary Sewer Interceptor; Marshfield, Wisconsin

DEPTH IN FEET	SURFACE ELEVATION: <u>1209.4'</u> MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS				
							WC	DEN	LL	PL	%-#200
1-4	ORGANIC CLAY, dark brown, frozen to 2 feet (OH)	SWAMP DEPOSITS			F/M DS						
5-9	SILTY SAND, a little gravel, gray, moist to wet, very loose (SM)	COARSE ALLUVIUM	4	M/W	SS	20					34
10-11	SANDY LEAN CLAY, a little gravel, mottled olive brown to brown, stiff (CL)	TILL	11	M	SS	24					
12-14	CLAYEY SAND WITH GRAVEL, mottled olive brown to brown, hard, sampler pounding on rock (SC)		27	M	SS	12					31
15-16	SANDY LEAN CLAY, a little gravel, brown, stiff (CL) 15 FT: INVERT DEPTH		9	M	SS	20	15				
20-21	SAND WITH SILT, fine to medium grained, brown, waterbearing, medium dense (SP-SM)	COARSE ALLUVIUM	19	W	SS	24					6
END OF BORING AT 21.5 FT											

DEPTH:	DRILLING METHOD	WATER LEVEL MEASUREMENTS							NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG
		DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL	
0-9.5'	3.25" HSA								
9.5-19.5'	RD w/DM	2/17/10	9:30	11.5'	9.5'	9.6'	---	9.2'	
		2/17/10	10:45	21.5'	9.5'	21.5'	0'	---	
BORING COMPLETED: 2/17/10									
DR: MD LG: BM Rig: 84									

BORINGS PERFORMED BY AND SUBSURFACE REPORT PREPARED BY:  
NUMMELIN TESTING SERVICES, INC.  
STEVENS POINT, WISCONSIN  
BORINGS PERFORMED ON 10-28-08

PLANS PREPARED BY:  
MSA PROFESSIONAL SERVICES, INC.  
BARABOO, WISCONSIN



BORING NO. 2  
STA 72V+19  
49' LT

CL SOUTH ABUT.  
STA. 72+68.05,  
12.0' LT.

BORING NO. 1

CL NORTH ABUT.  
STA. 73+09.05,  
12.0' LT.

STA 73V+09  
47' LT

72

73

CTH A SOUTHBOUND

72V

73V

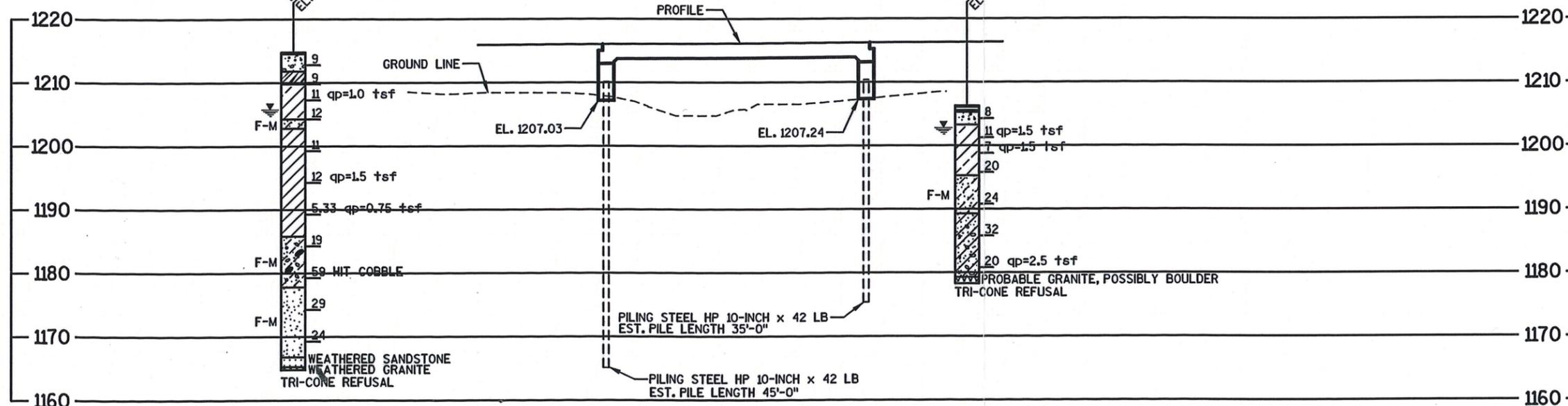
CTH A

MILL  
CREEK

STRUCTURE B-71-106

BORING NO. 2, STA. 72+19  
EL. 1214.8, 27' LT.  
STA 72V+19  
49' LT

BORING NO. 1, STA. 73+09  
EL. 1206.3, 24.8' LT.  
STA 73V+09  
47' LT



8

8

STATE PROJECT NUMBER	SHEET NO.
6350-06-75	

ABBREVIATIONS  
VF - Very Fine F - Fine M - Medium C - Coarse  
Ws - Weathered So - Sound

MATERIAL SYMBOLS		

LEGEND OF PROBING

95/6=95 Blows for 6" Penetration  
Probing taken with a 350# wt. Falling 18" on a 2" O.D. Point.

Probing No.  
Sta.  
Elevation  
7 Average Blows Per Foot  
Refusal 95/6

LEGEND OF BORING

Unconfined Strength → 7.7 7 \*  
Blows Per Ft. Using 140# Wt. Falling 30"  
Wash Sample  
Shelby Tube → S.T.  
Ground Water Elevation  
No Ground Water Observed Above This Elevation

Boring No.  
Sta.  
Elev.

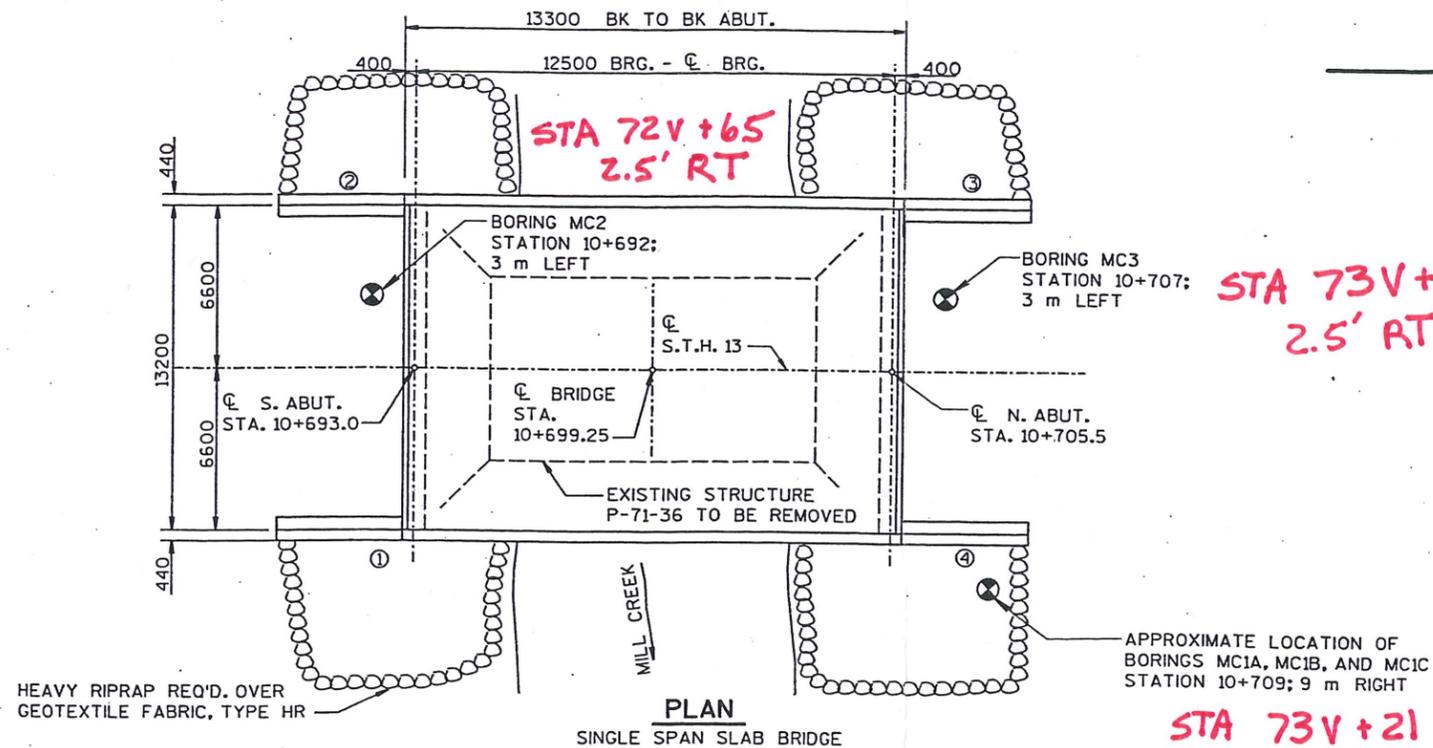
Sandy Gravel  
F.  
Boulders or Cobbles  
Sand  
Silty Clay  
So. Limestone

Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O.D. x 1.4" I.D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

No.	Date	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-71-171			
Const. Spec. WI "10"	Drawn By RLR	Plans Checked DCS	
SUBSURFACE EXPLORATION			SHEET 3 OF 12
568			



**ABBREVIATIONS**  
F—Fine M—Medium C—Coarse  
Ws—Weathered So—Sound

**MATERIAL SYMBOLS**

Topsoil	Silt	Sandstone
Sand	Peat	Limestone
Gravel	Clay	Igneous Rock

**LEGEND OF PROBING**

Probing No. Sta. Elevation

95/152 = 95 Blows for 152 mm Penetration  
Probing taken with a 158.8 kg wt. Falling 457 mm on a 51 mm O.D. Point.

7 Average Blows Per 305 mm Refusal 95/152

**LEGEND OF BORING**

Elev. Boring No. Sta.

Unconfined Strength → 7.7  
Blows Per 305 mm Using 63.6 kg wt. Falling 762 mm

Wash Sample

Sandy Gravel

Boulders or Cobbles

Sand

Silty Clay

Shelby Tube—S.T.

Ground Water Elevation

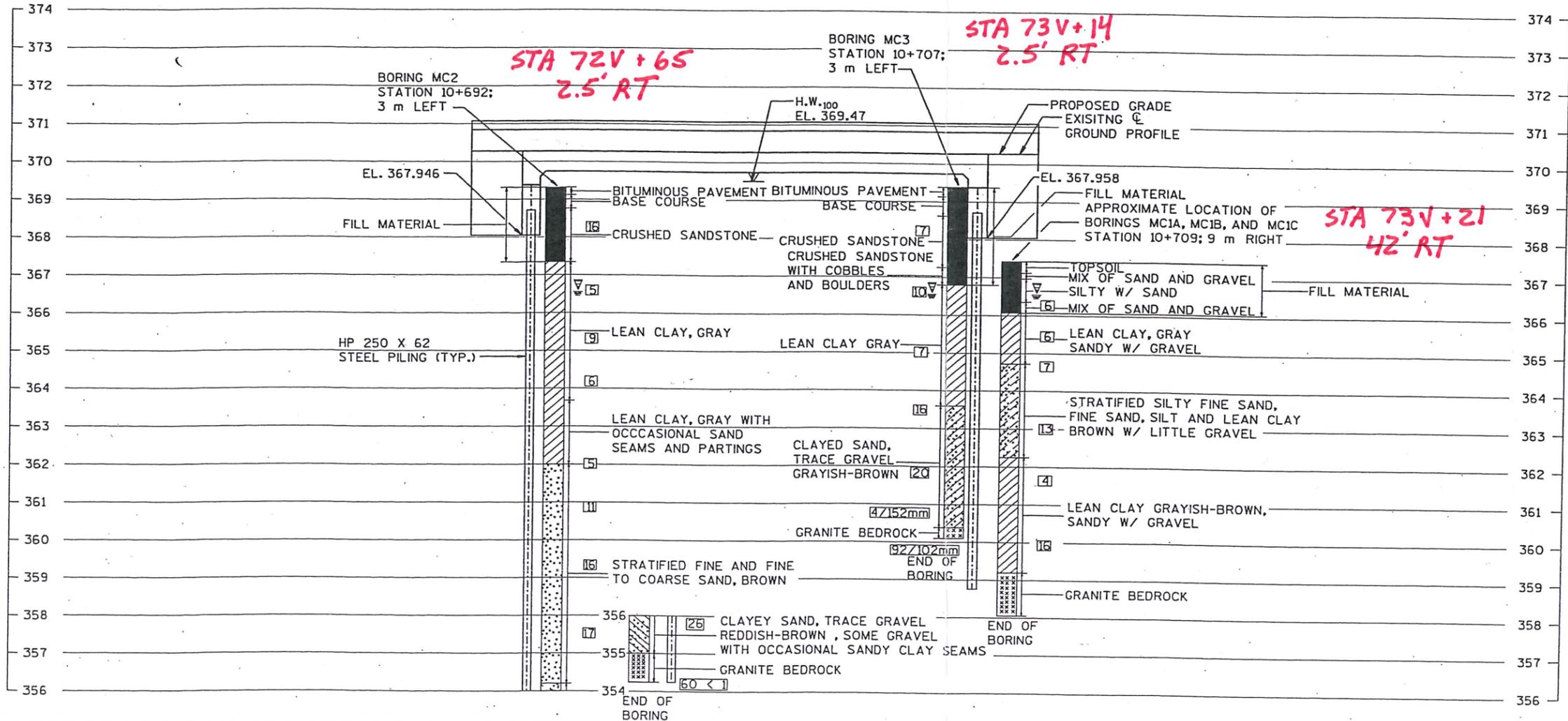
No Ground Water Observed Above This Elevation

So Limestone

Unless otherwise specified, the blows per 305 mm at the locations indicated are based on driving a 0.0x35 mm I.D. split spoon sampler with a 63.6 kg hammer having a free fall of 762 mm. The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

**SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION**

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.



PLOT SCALE: PLOT NAME: PLOT DATE: 01/30/02  
 ORIGINATOR: BSS  
 LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
<b>STRUCTURE B-71-106</b>			
CONST. SPEC.	WISC 1989	DRAWN BY	PLANS CHECKED
		HSB	CDH
<b>SUBSURFACE EXPLORATION</b>			SHEET 2 OF 7
			<b>M</b>

# TRUCK ROUTE MAP

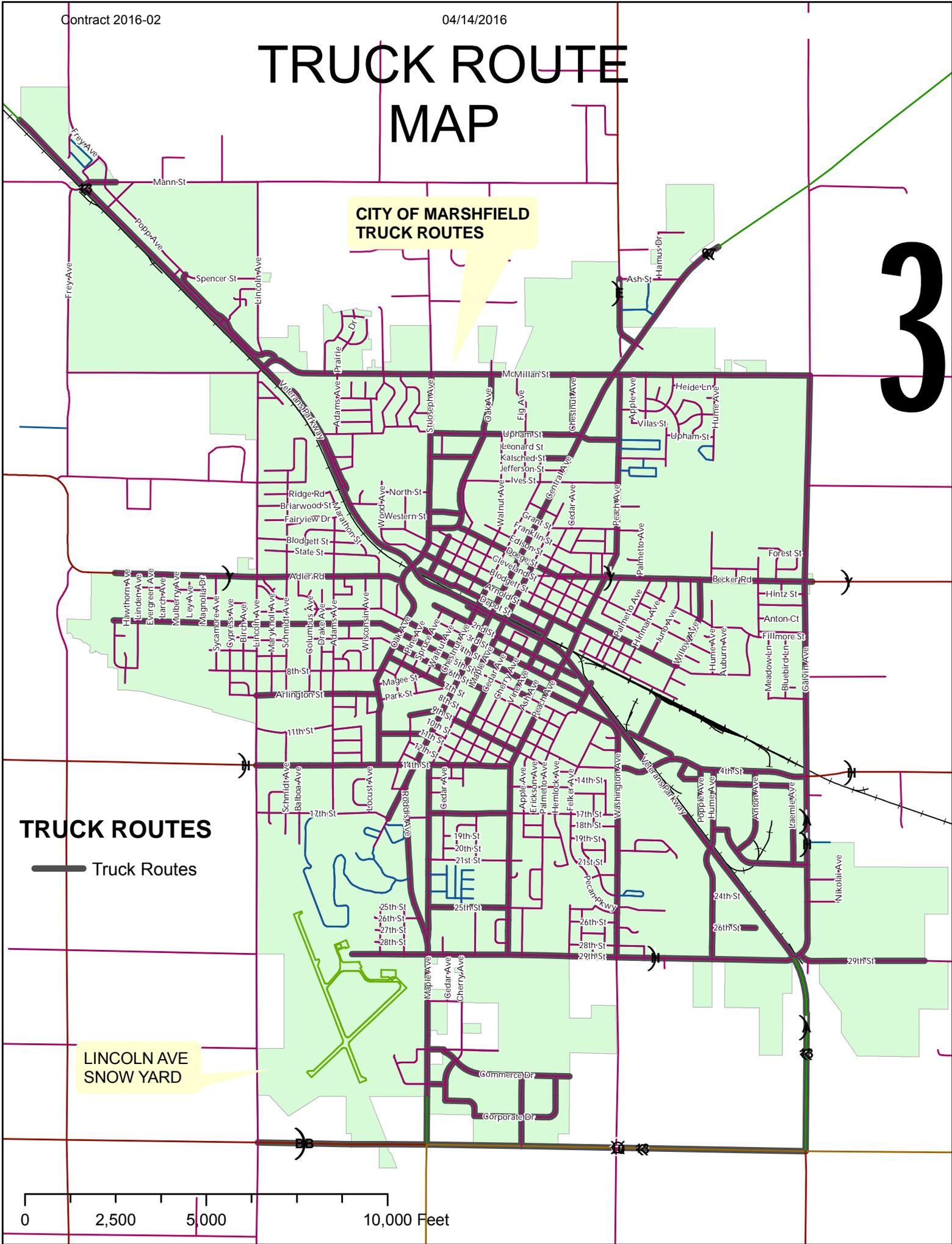
**CITY OF MARSHFIELD TRUCK ROUTES**

# 3

## TRUCK ROUTES

— Truck Routes

LINCOLN AVE SNOW YARD



**This Page Intentionally Left Blank**

ATTACH  
CERTIFICATE  
OF  
INSURANCE

ALL ENDORCEMENTS FOR ADDITIONAL INSURED SHALL BE INCLUDED

HERE

CERTIFICATE OF INSURANCE

**This Page Intentionally Left Blank**

**CONTRACT 2016-02**

This agreement made this \_\_\_\_ day of \_\_\_\_\_, **2016** by and between \_\_\_\_\_ hereinafter called the '**CONTRACTOR**' and the City of Marshfield, Wisconsin, hereinafter called the '**OWNER**', WITNESSETH, That the Contractor and the Owner, for the consideration hereinafter stated, agree as follows:

**Article I, Scope of Work:**

The Contractor shall perform everything required to be performed and shall provide and furnish all labor, materials, tools, equipment and plant which may be required, either expendable or permanent, also all utility and transportation services, all in strict accordance with the Plans, Specifications, and Contract Documents prepared by the City Engineer, sometimes referred to as the Engineer, which Plans and Specifications are made a part of this Contract, and in strict compliance with the Proposal and other Contract Documents herein mentioned which are also a part of this Contract; and the other documents constituting a part hereof.

**Article II, The Contract Consideration of Prices:**

**PROPOSAL**

**Sanitary Sewer Construction – Veterans Parkway (Heritage Drive to 34th Street), Plan No. 1645, Project No. 352225**

**Water Main Construction – Veterans Parkway (Heritage Drive to 34th Street), Plan No. 1645, Project No. 312224**

<b>Item No.</b>	<b>Item Description</b>	<b>Total Estimated Quantity</b>	<b>Unit</b>	<b>Unit Price</b>
1-1	Temporary Driveway (at STH 13), Draxler Transport	1	LS	\$
3-1	Remove Asphalt Surface	938	SY	\$
3-2	Saw Asphalt Surface	140	LF	\$
4-1	Rock Excavation	10	CY	\$
4-2	Boulder Excavation	10	CY	\$
4-3	Dewatering, for Sanitary Sewer and/or Water Main	695	LF	\$
4-4	Dewatering for Bore Pits, Manholes, etc.	1	LS	\$
5-1	Salvage and Reuse Existing Aggregate (Gravel Driveway)	1880	SY	\$
5-2	Base Aggregate Dense, 3/4", In-Place	370	CY	\$
8-1	Sanitary Manhole Cover, Type 'JM'	5	Each	\$
16-1	Finished Terraces (Urban) - City Seed Mix (2016)	2903	SY	\$
16-2	Turf Restoration (Non-Urban/Lawn)	3374	SY	\$
18-1	Erosion Control - Project (Discharge BMP's, Tracking Pads, etc.)	1	LS	\$
18-2	Silt Fence	271	LF	\$

**This Page Intentionally Left Blank**

18-3	Temporary Ditch Check	9	Each	\$
18-4	Culvert Pipe Ditch Check	5	Each	\$
18-5	Erosion Mat, Class 1 Urban Type B	179	SY	\$
19-1	Water Main, 14" HDPE DIPS SDR11 (via HDD)	2123	LF	\$
19-2	Water Main, 12" D.I.	79	LF	\$
19-3	Water Main, 8" D.I.	1406	LF	\$
19-4	Water Main, 6" D.I.	146	LF	\$
19-5	Valve W/Valve Box, 12"	2	Each	\$
19-6	Valve W/Valve Box, 8"	3	Each	\$
19-7	Valve W/Valve Box, 6"	8	Each	\$
19-8	Tee, 12"x8"	1	Each	\$
19-9	Tee, 12"x6"	3	Each	\$
19-10	Tee, 8"x6"	3	Each	\$
19-11	Tapping Sleeve, 14"x6"	2	Each	\$
19-12	Reducer, 14"x12"	2	Each	\$
19-13	Reducer, 14"x12", MJ x PE	2	Each	\$
19-14	Bend, 90° , 8"	1	Each	\$
19-15	Bend, 45° , 12"	1	Each	\$
19-16	Bend, 22 1/2° , 6"	2	Each	\$
19-17	Long Sleeve, 12"	1	Each	\$
19-18	14" Stiffening Insert (for 14" HDPE)	2	Each	\$
19-19	Hydrant, 5' Bury	1	Each	\$
19-20	Hydrant, 6' Bury	2	Each	\$
19-21	Hydrant, 8' Bury	4	Each	\$
19-22	Hydrant, 9' Bury	1	Each	\$
19-23	Hydrant Extension, 6"	1	Each	\$
19-24	Hydrant Extension, 12"	1	Each	\$

**This Page Intentionally Left Blank**

19-25	Hydrant Extension, 18"	1	Each	\$	
19-26	Hydrant Extension, 24"	1	Each	\$	
19-27	Water Valve Manhole w/12" Valve, Complete, North (Base Bid Pipe Materials)	1	Each	\$	
19-28	Water Valve Manhole w/12" Valve, Complete, South (Base Bid Pipe Materials)	1	Each	\$	
19-29	Corporation Stop, 2"	2	Each	\$	
19-30	Curb Stop, 2"	2	Each	\$	
19-31	Water Service, 2" Copper	60	LF	\$	
19-32	12" Water Main (Dead-End) Buttress	1	Each	\$	
19-33	Water Main Insulation	232	SF	\$	
20-1	Sanitary Sewer, 8-Inch PVC	1543	LF	\$	
20-2	Sanitary Sewer Plug, 8-Inch PVC	1	Each	\$	
20-3	Sanitary Sewer Lateral, 6" PVC	80	LF	\$	
20-4	Connect New 8" PVC Sewer Pipe to Existing Manhole	1	Each	\$	
20-5	8"x6" PVC Wye	2	Each	\$	
20-6	Sanitary Manhole, Type 1	63	VF	\$	
20-7	Sanitary Manhole Chimney Seal, Exterior	5	Each	\$	
22-1	Tracer Wire	4634	LF	\$	
22-2	Test Station (for Tracer Wire)	5	Each	\$	
22-3	Grounding Anodes (for Tracer Wire)	5	Each	\$	
24-1	Traffic Control - Project	1	LS	\$	
24-2	Temporary Precast Concrete Barrier at 34th Street	1	LS	\$	
<b>Alternate Bid Items</b>					
19A-1	Water Main, 12" DIP (via HDD)	2123	LF	\$	
19A-27	Water Valve Manhole w/12" Valve, Complete, North (Alternate Pipe Materials)	1	Each	\$	
19A-28	Water Valve Manhole w/12" Valve, Complete, South (Alternate Pipe Materials)	1	Each	\$	

**This Page Intentionally Left Blank**

All of which payments are to be made in accordance with the General Conditions and Specifications.

**Article III, Component Parts of This Contract:** This Contract consists of the following component parts, all of which are as fully a part of this Contract as if herein set forth verbatim and if not attached, as if hereto attached.

1. Advertisement of Bids
2. Instructions to Bidders
3. General Conditions
4. Specifications
5. Special Provisions
6. Plans
7. Wage Rate Schedule
8. Contractor's Proposal
9. This Instrument

In the event that any provision in any of the above component parts of this Contract conflicts with any provision in any other component part or parts, the Contractor shall in writing request a clarification of such conflict by the Engineer, and his clarification of such conflict, approved by the Owner's Board of Public Works, shall be final and binding upon the parties hereto.

**Article IV, Guarantee:** The Contractor agrees and guarantees that the equipment, materials, and workmanship supplied by him shall be free from all defects and strictly in accordance with the Plans and Specifications herein above referred to and accepted by the Owner; and for a period of twelve (12) months after completion of the Contract, in case of any cracks, settlement, leaks or other defects in work constructed by the Contractor, the Contractor agrees to promptly repair the same upon notification by the Owner, using materials meeting the requirements of the Specification, and in case the Contractor shall fail to make such repairs or cause the same to be made within thirty (30) days of the above mentioned notification, the Contractor agrees to pay upon demand the cost of thereof to the Owner after completion of such repairs, and the Contractor further agrees and guarantees to pay for all labor, material and equipment used in or about the construction covered by this Contract which may become a lien or claim against the Owner.

**Article V, Locus of Contract:** It is agreed that this Contract, regardless of where executed, shall be subject to and governed by the Law of the State of Wisconsin and shall for all purposes be deemed and regarded to be a Contract entered into the State of Wisconsin.

All of which payments are to be made in accordance with the General Conditions and Specifications.

**This Page Intentionally Left Blank**

In Witness Whereof, the parties have caused this instrument to be executed in three (3) original counterparts on the day and year herein before stated.

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Address

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip

\_\_\_\_\_  
By:

\_\_\_\_\_  
Title

CITY OF MARSHFIELD ("OWNER")

\_\_\_\_\_  
Chris L. Meyer, Mayor

\_\_\_\_\_  
Deb M. Hall, City Clerk

Attest:

\_\_\_\_\_  
All of the Contract Documents have been examined as to form and are approved.

\_\_\_\_\_  
Harold Wolfgram, City Attorney

\_\_\_\_\_  
Provision is made to pay the liability that will accrue under this Contract.

\_\_\_\_\_  
Keith R. Strey, Finance Director

**This Page Intentionally Left Blank**

**PERFORMANCE AND PAYMENT BOND**

KNOW ALL MEN BY THESE PRESENTS, that we, \_\_\_\_\_  
 \_\_\_\_\_ as Principal,  
 and \_\_\_\_\_ as Surety, are held  
 and firmly bound unto the City of Marshfield, Wisconsin hereinafter called the Owner, in the penal sum of  
 \_\_\_\_\_ Dollars, lawful money of the United  
 States, for the payment of which sum well and truly made, we bind ourselves, our heirs, executors,  
 administrators, successors and assigns, jointly and severally, firmly by these presents.

The condition of this obligation is that whereas the Principal has executed and attached a  
 contract dated \_\_\_\_\_, 20 \_\_\_\_\_, for the construction of  
 \_\_\_\_\_;  
 \_\_\_\_\_;

Now therefore, if said attached contract is executed on behalf of the Owner, the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the proposal, contract and other contract documents as accepted and any and all duly authorized extensions or modifications of said contract documents that may hereafter be made, shall pay to each and every person or party entitled thereto all the claims for work or labor performed or material furnished, including premiums for Worker's Compensation Insurance, for or in or about or under such contract as provided in Section 102 and 779 of the Wisconsin Statutes, and any such authorized extension or modification thereof, then this obligation is to be void; otherwise to remain in full force and effect.

And the said Surety, for value received, hereby stipulates and agrees that no change, alteration or addition to the terms of the contract or the work to be performed thereunder or the contract documents accompanying the same shall in any way effect its obligations under this bond, and it does hereby waive notice of any such change, alteration or addition to the terms of the contract, to the work or to the contract documents.

**This Page Intentionally Left Blank**

In witness whereof, the above bounden parties have executed this instrument in three original counterparts under their several seals this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
 The name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representatives, pursuant to authority of its governing body.

In the presence of:

\_\_\_\_\_  
 Individual Principal \_\_\_\_\_SEAL

Address \_\_\_\_\_  
 Business Address \_\_\_\_\_

\_\_\_\_\_  
 Individual Principal \_\_\_\_\_

\_\_\_\_\_  
 Business Address \_\_\_\_\_

Attest: \_\_\_\_\_  
 Corporate Principal \_\_\_\_\_

Business Address \_\_\_\_\_

\_\_\_\_\_  
 BY: \_\_\_\_\_  
 (Type) CORPORATE SEAL

Attest: \_\_\_\_\_  
 Corporate Surety \_\_\_\_\_

Business Address \_\_\_\_\_

\_\_\_\_\_  
 BY: \_\_\_\_\_  
 (Type) CORPORATE SEAL

Approved this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_  
 Deb M. Hall, City Clerk

\_\_\_\_\_  
 Chris L. Meyer, Mayor

\_\_\_\_\_  
 Keith Strey, Finance Director

**This Page Intentionally Left Blank**

**CITY OF MARSHFIELD, WISCONSIN  
PROPOSAL FOR CONTRACT 2016-02  
Contract 2016-02**

**Sanitary Sewer Construction – Veterans Parkway (Heritage Drive to 34th Street), Plan  
No. 1645, Project No. 352225**

**Water Main Construction – Veterans Parkway (Heritage Drive to 34th Street), Plan No.  
1645, Project No. 312224**

**Bids Received until 4:00 PM and Opened at 4:05 PM DATE: May 2, 2016**

Proposal submitted by the undersigned Bidder to the City of Marshfield, Wisconsin, in accordance with the Notice to Bidders, to furnish and deliver all materials, and to do and perform all work for the above named project, in accordance with the applicable Specifications, Plans, and Special Provisions for the work.

The undersigned Bidder, if awarded the Contract, agrees to begin work not later than ten (10) days after the date of written notification from the City Engineer to do so, and to complete the same in accordance with the Specifications and Special Provisions.

The undersigned Bidder, submitting this Proposal, hereby declares and agrees to be bound, and to perform the work in accordance with all the terms, conditions, and requirements of the within and foregoing Proposal, the Contract, the Specifications, the Special Provisions and the Plans.

The Bidder declares that he has carefully examined the project site(s), the Proposal, Plans, Specifications, and Contract form for the work contemplated, and it is assured that the bidder has investigated and is satisfied as to the conditions to be encountered as to the character, quality, and quantities of work to be performed and materials to be furnished, and as to the requirements of the Specifications, Plans, Special Provisions, and Contract. It is mutually agreed that submission of a Proposal shall be considered conclusive evidence that the Bidder has made such examination.

The Bidder declares that he understands the estimate of quantities in the attached schedule is approximate only and that the attached quantities may be greater or less in accordance with the Specifications.

The Bidder agrees to perform the said work, for and in consideration of the payment of the amount becoming due on account of work performed, according to the unit prices bid in the following schedule, and to accept such amount in full payment for such work.

The Bidder declares that only the persons, firm, or corporation herein named have an interest in this Proposal and that the same is submitted without collusion with any person, firm, or corporation.

The Bidder declares that if he is awarded the Contract, he will execute the Contract agreement and begin and complete the work within the time named herein and he will file a contract bond in the sum of the total amount of the Contract to guarantee the successful execution of the work and will comply with the requirements of Chapter 102 of the Wisconsin Statutes dealing with Worker's Compensation.

The Bidder declares that if he is awarded the Contract, he will comply with the requirements relative to the maximum daily and weekly hours of labor and the Minimum Wage Rates set for various occupations or classifications of labor.

**This Page Intentionally Left Blank**

**PROPOSAL**

**Sanitary Sewer Construction – Veterans Parkway (Heritage Drive to 34th Street), Plan No. 1645, Project No. 352225**

**Water Main Construction – Veterans Parkway (Heritage Drive to 34th Street), Plan No. 1645, Project No. 312224**

Item No.	Item Description	Total Estimated Quantities	Unit	Unit Price	Total Amount
1-1	Temporary Driveway (at STH 13), Draxler Transport	1	LS	\$	\$
3-1	Remove Asphalt Surface	938	SY	\$	\$
3-2	Saw Asphalt Surface	140	LF	\$	\$
4-1	Rock Excavation	10	CY	\$	\$
4-2	Boulder Excavation	10	CY	\$	\$
4-3	Dewatering, for Sanitary Sewer and/or Water Main	695	LF	\$	\$
4-4	Dewatering for Bore Pits, Manholes, etc.	1	LS	\$	\$
5-1	Salvage and Reuse Existing Aggregate (Gravel Driveway)	1880	SY	\$	\$
5-2	Base Aggregate Dense, 3/4", In-Place	370	CY	\$	\$
8-1	Sanitary Manhole Cover, Type 'JM'	5	Each	\$	\$
16-1	Finished Terraces (Urban) - City Seed Mix (2016)	2903	SY	\$	\$
16-2	Turf Restoration (Non-Urban/Lawn)	3374	SY	\$	\$
18-1	Erosion Control - Project (Discharge BMP's, Tracking Pads, etc.)	1	LS	\$	\$
18-2	Silt Fence	271	LF	\$	\$
18-3	Temporary Ditch Check	9	Each	\$	\$
18-4	Culvert Pipe Ditch Check	5	Each	\$	\$
18-5	Erosion Mat, Class 1 Urban Type B	179	SY	\$	\$
19-1	Water Main, 14" HDPE DIPS SDR11 (via HDD)	2123	LF	\$	\$
19-2	Water Main, 12" D.I.	79	LF	\$	\$
19-3	Water Main, 8" D.I.	1406	LF	\$	\$
19-4	Water Main, 6" D.I.	146	LF	\$	\$

**This Page Intentionally Left Blank**

19-5	Valve W/Valve Box, 12"	2	Each	\$		\$	
19-6	Valve W/Valve Box, 8"	3	Each	\$		\$	
19-7	Valve W/Valve Box, 6"	8	Each	\$		\$	
19-8	Tee, 12"x8"	1	Each	\$		\$	
19-9	Tee, 12"x6"	3	Each	\$		\$	
19-10	Tee, 8"x6"	3	Each	\$		\$	
19-11	Tapping Sleeve, 14"x6"	2	Each	\$		\$	
19-12	Reducer, 14"x12"	2	Each	\$		\$	
19-13	Reducer, 14"x12", MJ x PE	2	Each	\$		\$	
19-14	Bend, 90° , 8"	1	Each	\$		\$	
19-15	Bend, 45° , 12"	1	Each	\$		\$	
19-16	Bend, 22 1/2° , 6"	2	Each	\$		\$	
19-17	Long Sleeve, 12"	1	Each	\$		\$	
19-18	14" Stiffening Insert (for 14" HDPE)	2	Each	\$		\$	
19-19	Hydrant, 5' Bury	1	Each	\$		\$	
19-20	Hydrant, 6' Bury	2	Each	\$		\$	
19-21	Hydrant, 8' Bury	4	Each	\$		\$	
19-22	Hydrant, 9' Bury	1	Each	\$		\$	
19-23	Hydrant Extension, 6"	1	Each	\$		\$	
19-24	Hydrant Extension, 12"	1	Each	\$		\$	
19-25	Hydrant Extension, 18"	1	Each	\$		\$	
19-26	Hydrant Extension, 24"	1	Each	\$		\$	
19-27	Water Valve Manhole w/12" Valve, Complete, North (Base Bid Pipe Materials)	1	Each	\$		\$	
19-28	Water Valve Manhole w/12" Valve, Complete, South (Base Bid Pipe Materials)	1	Each	\$		\$	
19-29	Corporation Stop, 2"	2	Each	\$		\$	
19-30	Curb Stop, 2"	2	Each	\$		\$	
19-31	Water Service, 2" Copper	60	LF	\$		\$	
19-32	12" Water Main (Dead-End) Buttress	1	Each	\$		\$	
19-33	Water Main Insulation	232	SF	\$		\$	

**This Page Intentionally Left Blank**

20-1	Sanitary Sewer, 8-Inch PVC	1543	LF	\$		\$
20-2	Sanitary Sewer Plug, 8-Inch PVC	1	Each	\$		\$
20-3	Sanitary Sewer Lateral, 6" PVC	80	LF	\$		\$
20-4	Connect New 8" PVC Sewer Pipe to Existing Manhole	1	Each	\$		\$
20-5	8"x6" PVC Wye	2	Each	\$		\$
20-6	Sanitary Manhole, Type 1	63	VF	\$		\$
20-7	Sanitary Manhole Chimney Seal, Exterior	5	Each	\$		\$
22-1	Tracer Wire	4634	LF	\$		\$
22-2	Test Station (for Tracer Wire)	5	Each	\$		\$
22-3	Grounding Anodes (for Tracer Wire)	5	Each	\$		\$
24-1	Traffic Control - Project	1	LS	\$		\$
24-2	Temporary Precast Concrete Barrier at 34th Street	1	LS	\$		\$

**TOTAL BID \$**

**Alternate Bid Items**

19A-1	Water Main, 12" DIP (via HDD)	2123	LF	\$		\$
19A-27	Water Valve Manhole w/12" Valve, Complete, North (Alternate Pipe Materials)	1	Each	\$		\$
19A-28	Water Valve Manhole w/12" Valve, Complete, South (Alternate Pipe Materials)	1	Each	\$		\$

**TOTAL ALTERNATE BID \$**

**This Page Intentionally Left Blank**

### SUMMARY OF ALL PROPOSALS

**TOTAL OF PROPOSAL (without alternate) \$**

**TOTAL OF ALTERNATE BID \$**

**CONTRACTOR**

**DATE:** \_\_\_\_\_

**WE** \_\_\_\_\_ **(Name of Bidder) have examined the**

**Bidding Documents and the following Addenda (receipt of which is hereby acknowledged)**

**ADDENDUM NO.**

**DATE**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**This Page Intentionally Left Blank**

I hereby certify that all the sttements herein are made on behalf of

\_\_\_\_\_

(Name of Coporation, Partnership, or Person Submitting Bid)

a Corporation organized and existing under the laws of the State of \_\_\_\_\_;

a Partnership consisting of \_\_\_\_\_;

an lvdidual trading as \_\_\_\_\_;

of the City of \_\_\_\_\_ State of \_\_\_\_\_;

that I have examined and carfully prepared this Proposal from the Plans and Specifications and have checked the same in detail before submitting this Proposal; that I have full authority to make such statements and submit this Proposal in its (their) behalf; and that the statements are true and correct.

\_\_\_\_\_  
Signature

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 2016

\_\_\_\_\_

Notary Public

My Commission Expires: \_\_\_\_\_

Bidders should not add any conditions or quallifing statements to this Proposal, as otherwise the Proposal may be declared irregular as not being responsive to the advertisement.

**This Page Intentionally Left Blank**

**ATTACH**

**PROPOSAL**

**GUARANTEE**

**HERE**

PROPOSAL GUARANTEE

**This Page Intentionally Left Blank**

**FULL AND COMPLETE LIST  
OF  
SUBCONTRACTORS AND EQUIPMENT SUPPLIERS  
TO BE USED FOR THIS PROJECT.**

**NOTE:** This list cannot be altered after submission without written consent of the OWNER.

Pursuant to Section 66.0901(7), Wisconsin Statutes, the Bidder, as part of this Proposal, submits this full and complete list of all the Subcontractors and the class or work to be performed by each, including equipment suppliers to be used for this project.

The Contractor will be permitted to sublet a portion of the Contract, but shall perform with his own organization work amounting to at least 30 percent of the original contract amount.

If the Contractor shall sublet any part of this Contract, the Contractor shall be as fully responsible to the owner for the acts and omissions of his Subcontractor and of the persons either directly or indirectly employed by his Subcontractor as he is by acts or omissions of persons directly employed by himself. All Subcontractors, if any, shall be listed in the spaces provided on the Proposal Form and said list shall not be added to or altered without the written consent of the Owner.

When a Subcontractor and the class of work to be performed is not listed, it shall be considered that the Bidder will perform the work himself.

**Subcontractor's Name, Address, and Phone Number          Work to be Performed**

---

---

---

---

---

---

---

---

---

---

---

**Supplier's Name, Address, and Phone Number          Equipment to be Supplied**

---

---

---

---

---

---

---

---

---

---

---

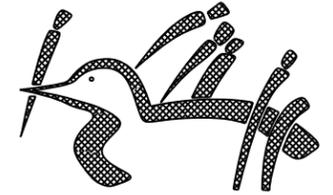
I hereby certify that the use of the name(s) of the above Subcontractor(s) was with the knowledge and consent of the said Subcontractor(s).

\_\_\_\_\_  
Signature of Bidder

**This Page Intentionally Left Blank**



# CITY OF MARSHFIELD CONTRACT 2016-02

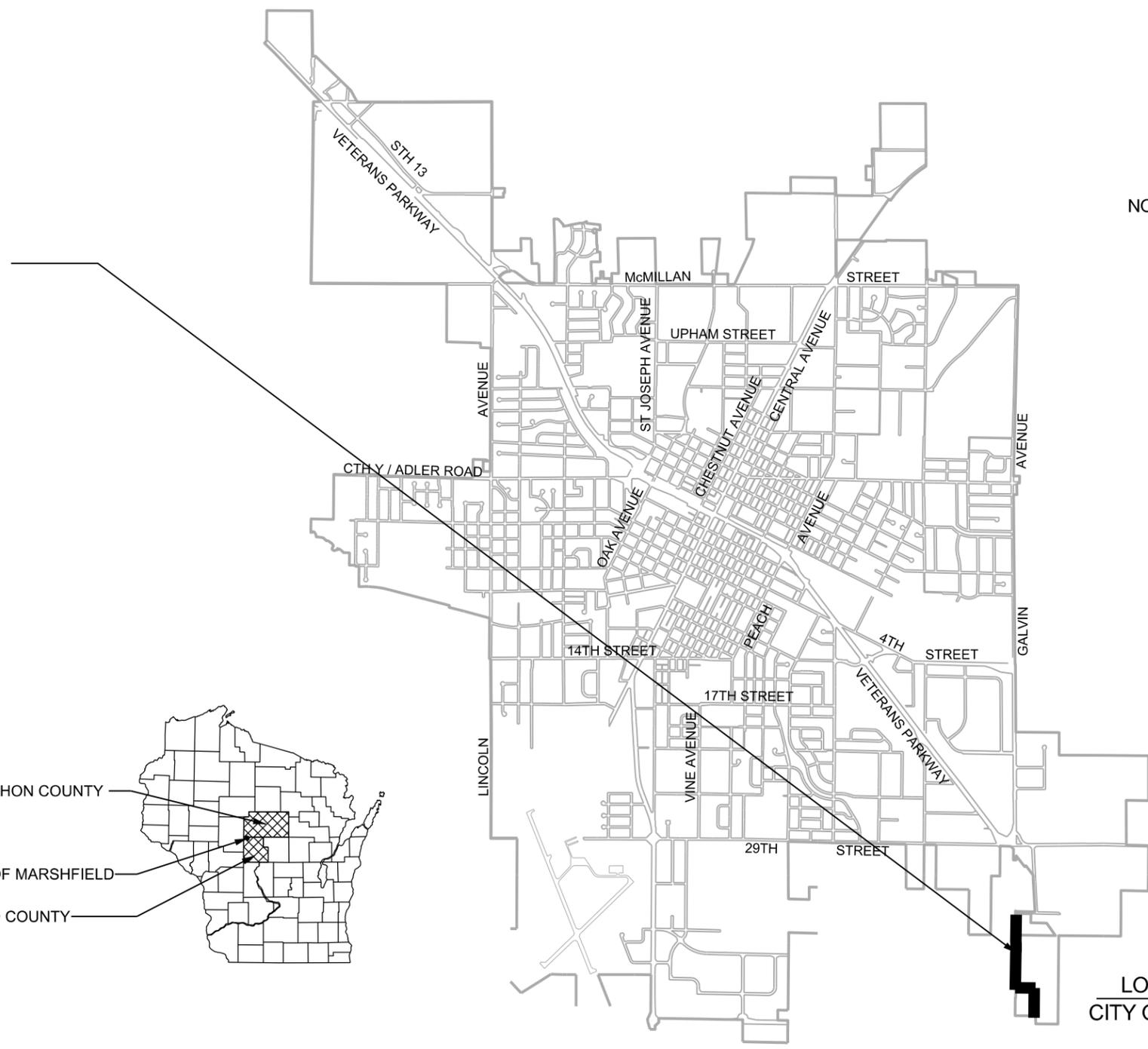


NOT TO SCALE

PLAN NO. 1645  
PROJECT NOS. 352225, 312224

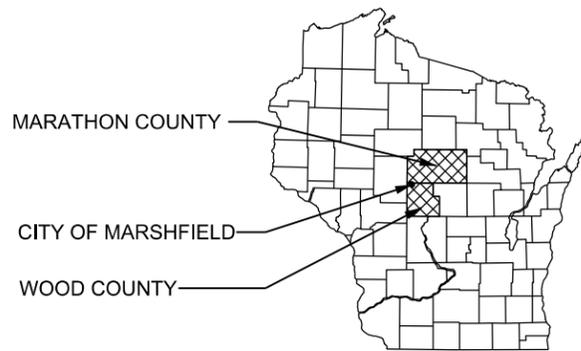
SANITARY SEWER AND WATER MAIN EXTENSION  
DRAXLER DRIVE & VETERANS PARKWAY

PLOTTED ON: 4/12/2016 11:49:09 AM

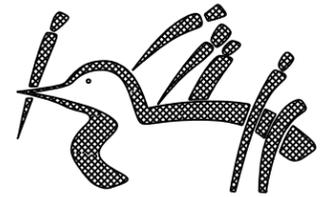


### INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	LEGEND AND GENERAL NOTES
SHEET NO. 3	TYPICAL SECTIONS
SHEET NO. 4 - 12	CONSTRUCTION DETAILS
SHEET NO. 13 - 21	SANITARY SEWER AND WATER MAIN EXTENSION PLAN & PROFILE
SHEET NO. 22 - 26	DRAXLER DRIVE CROSS-SECTIONS



LOCATION MAP  
CITY OF MARSHFIELD



LEGEND

	EXIST. CONC. SIDEWALK OR DRIVE
	REMOVE AND REPLACE SIDEWALK
	PROPOSED SIDEWALK CONSTRUCTION
	FUTURE SIDEWALK CONSTRUCTION
	EXISTING CB OR INLET
	NEW CB OR INLET
	EXISTING CURB & GUTTER
	NEW CURB & GUTTER
	CONC. SDWK, DRWY, PAVT. REMOVAL
	CONSTRUCT OR REPLACE ASPHALTIC SURFACE
	CONSTRUCT OR REPLACE GRAVEL SURFACE
	CONST. CONC. DRIVEWAY
	BENCHMARK
	GAS VALVE
	WATER VALVE
	CURB STOP
	POWER POLE
	TELEPHONE POLE
	LIGHT POLE
	HYDRANT
	POLE GUY LINE
	NEW YARD INLET
	EXISTING M.H.
	BULKHEAD
	NEW M.H.
	TREE
	REMOVE TREE
	BUSH
	JOINT SPACING AT INTERSECTION
	EXISTING SAN SEWER
	PROPOSED SAN SEWER
	TEL. PEDESTAL
	UNDERGROUND TEL. CABLE
	EXISTING STORM SEWER
	PROPOSED STORM SEWER
	PROPOSED UNDERDRAIN
	EXISTING WATER MAIN
	PROPOSED WATER MAIN
	EXISTING GAS MAIN
	UNDERGROUND ELECTRIC CABLE
	UNDERGROUND CABLE TV
	COMBUSTIBLE FLUIDS (UNDER PRESSURE)
	DOWEL BASKETS
	STORM SEWER LABELS
	SANITARY SEWER LABELS
	WATER MAIN LABELS
	REMOVAL LABELS
	EROSION CONTROL INLET PROTECTION
	EROSION CONTROL DITCH CHECK
	EROSION CONTROL CULVERT PIPE DITCH CHECK

OFFICE CONTACTS

DAN KNOECK, P.E. - DIRECTOR OF PUBLIC WORKS  
 TOM TURCHI, P.E. - CITY ENGINEER  
 TIM CASSIDY, P.E. - ASSISTANT CITY ENGINEER  
 JOSH MAURITZ, P.E. - CIVIL ENGINEER II  
 NATE ULNESS, E.I.T. - CIVIL ENGINEER I  
 LANCE OLDHAM - ENGINEERING TECHNICIAN  
 SHAWN MILLER - ENGINEERING TECHNICIAN

CITY OF MARSHFIELD  
 630 S. CENTRAL AVE.  
 P. O. BOX 727  
 MARSHFIELD, WI 54449-0727  
 (715) 486-2034  
 FAX (715) 384-7631

GENERAL NOTES

ALL NEW DRIVEWAY ENTRANCES ARE TO BE CONSTRUCTED OF CONCRETE BETWEEN THE CURB AND SIDEWALK.

ALL INTERSECTION RADII ARE 20' TO FACE OF CURB UNLESS OTHERWISE NOTED.

ALL PROPERTY MARKERS AND BLOCK CORNERS SHALL BE PRESERVED.

THE EXACT LOCATION OF THE DRIVEWAY ENTRANCES TO BE DETERMINED IN THE FIELD BY THE ENGINEER. REPLACE ALL DRIVEWAYS IN KIND.

ALL CULVERTS IN EXISTING DRIVEWAYS SHALL BE CAREFULLY REMOVED TO AVOID DAMAGE AND SHALL BE PLACED ON THE TERRACE OF THE OWNER FOR DISPOSAL BY THE OWNER. IF, AFTER 10 DAYS NOTICE BY THE ENGINEER, THE OWNER DOES NOT CLAIM SUCH SALVAGED MATERIALS, THEY SHALL BE DISPOSED OF BY THE CONTRACTOR

TRANSVERSE JOINTS SHOWN ON THE PLANS MAY BE REVISED WITH APPROVAL BY THE ENGINEER.

LOCATION OF CURB RAMPS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NO TREES ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

EBS IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS, BUT IS MEASURED AND PAID FOR AS UNCLASSIFIED EXCAVATION. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER.

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

ABBREVIATIONS

AH	AHEAD
ASPH	ASPHALTIC
BK	BACK
BM	BENCHMARK
C&G	CURB & GUTTER
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CP	CULVERT PIPE
CPDC	CULVERT PIPE DITCH CHECK
CSCP	CORRUGATED STEEL CULVERT PIPE
CY	CUBIC YARD
D	DEGREE OF CURVE / DEPTH
Δ	CENTRAL ANGLE OR DELTA
DIA	DIAMETER
DISCH	DISCHARGE
E	EAST
EBS	EXCAVATION BELOW SUBGRADE
ELEV	ELEVATION
EXIST	EXISTING
GV	GAS VALVE
HYD	HYDRANT
LF	LINEAL FOOT
MH	MANHOLE
N	NORTH
NO	NUMBER
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENCY
PU	PIPE UNDERDRAIN
PUU	PIPE UNDERDRAIN, UNPERFORATED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS / RANGE
R/W	RIGHT OF WAY
RCCP	REINFORCED CONCRETE CULVERT PIPE
RCCPP	REINFORCED CONCRETE CULVERT PIPE - PERFORATED
RCHPEP	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
RCP	REINFORCED CONCRETE PIPE
RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
REQD	REQUIRED
RL	REFERENCE LINE
RR	RAILROAD
RT	RIGHT
S	SOUTH
SAN	SANITARY SEWER
SDG	SPECIAL DITCH GRADE
SF	SQUARE FOOT
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
SICPPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE - PERFORATED
SPECS	SPECIFICATIONS
SS	STORM SEWER
STA	STATION
STH	STATE TRUNK HIGHWAY
SWG	SPECIAL WALK GRADE
SY	SQUARE YARD
T	TOWN
TAN	TANGENT
TC	TOP OF CURB
TEL	TELEPHONE
TSE	TOP OF STRUCTURE ELEVATION
ULO	UTILITY LINE OPENING
VC	VERTICAL CURVE
VF	VERTICAL FOOT
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WV	WATER VALVE

UTILITIES

CITY OF MARSHFIELD - STREET DIVISION  
 407 W 2ND ST  
 MARSHFIELD WI 54449  
 ATTN: MIKE WINCH  
 (715) 384-3606

CITY OF MARSHFIELD - WASTEWATER UTILITY  
 3411 S GALVIN AVE  
 MARSHFIELD WI 54449  
 ATTN: SAM WARP  
 (715) 591-2022

MARSHFIELD UTILITIES  
 2000 S RODDIS AVE  
 PO BOX 670  
 MARSHFIELD WI 54449-0670  
 ATTN: DAVID WASSERBURGER (WATER)  
 ATTN: NICHOLAS KUMM (ELECTRIC)  
 (715) 387-1195  
 CONSTRUCTION CONTACTS  
 (WATER) JOHN RICHMOND  
 CELL: (715) 937-8302  
 (ELECTRIC) DERREK CAFLISCH  
 CELL: (715) 507-0077

CHARTER COMMUNICATIONS  
 508 N CENTRAL AVE #103  
 MARSHFIELD WI 54449  
 ATTN: JESSE GRUNY  
 (715) 748-5071-OFFICE  
 (715) 651-5605-CELL

FRONTIER COMMUNICATIONS  
 521 4TH ST  
 WAUSAU WI 54403-4869  
 ATTN: BRADLEY KSIONEK  
 (715) 847-1550

WE ENERGIES  
 1921 8TH ST SOUTH  
 PO BOX 789  
 WISCONSIN RAPIDS WI 54494-0789  
 ATTN: CRAIG R. KNAUF, P.E.  
 (715) 421-7267-OFFICE  
 (715) 213-1954-CELL  
 (800) 261-5325 - GAS LEAK / EMERGENCY

AGENCIES

EMERGENCY - FIRE, RESCUE, AMBULANCE, POLICE  
 DIAL 911

MARSHFIELD FIRE DEPARTMENT  
 412 E 4TH ST  
 MARSHFIELD WI 54449  
 (715) 384-3118 NON-EMERGENCY

MARSHFIELD POLICE DEPARTMENT  
 110 W 1ST ST  
 MARSHFIELD WI 54449  
 (715) 384-3113 NON-EMERGENCY

ADVANCED DISPOSAL SERVICES  
 501 S HUME AVE  
 MARSHFIELD WI 54449  
 (715) 387-6275

UNITED STATES POST OFFICE  
 202 S CHESTNUT AVE  
 MARSHFIELD WI 54449  
 (715) 384-2198

WOOD COUNTY - HIGHWAY DEPARTMENT  
 555 17TH AVE N  
 WISCONSIN RAPIDS WI 54495  
 (715) 421-8875

WOOD COUNTY - SHERIFF'S DEPARTMENT  
 630 S CENTRAL AVE  
 MARSHFIELD WI 54449  
 (715) 384-5345 NON-EMERGENCY

WASTE MANAGEMENT  
 (888) 960-0008

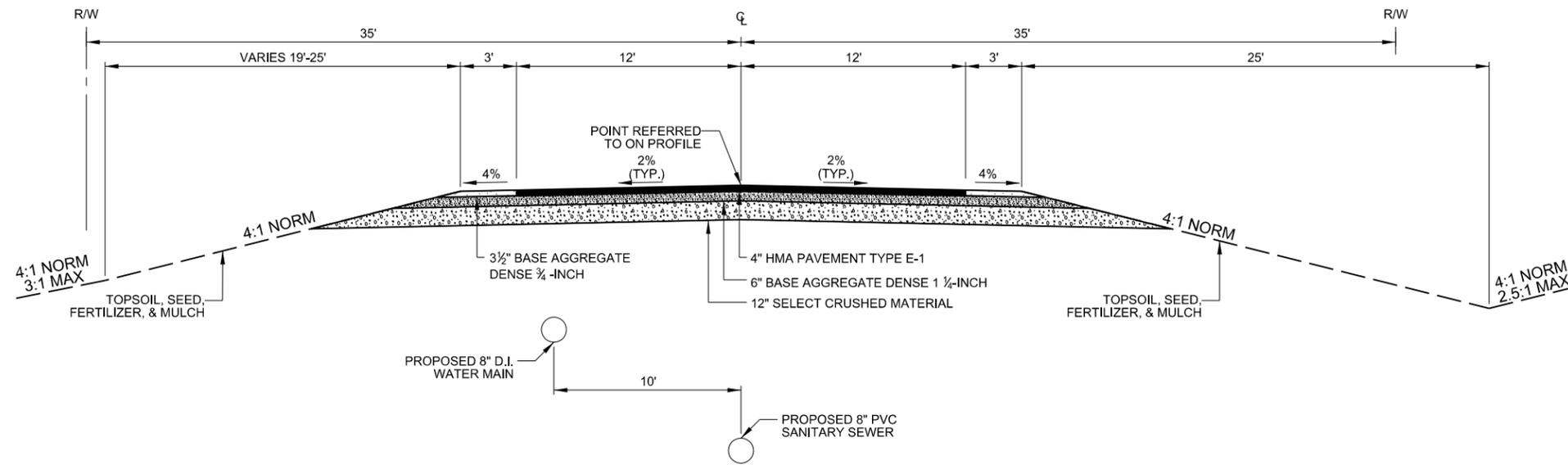
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN



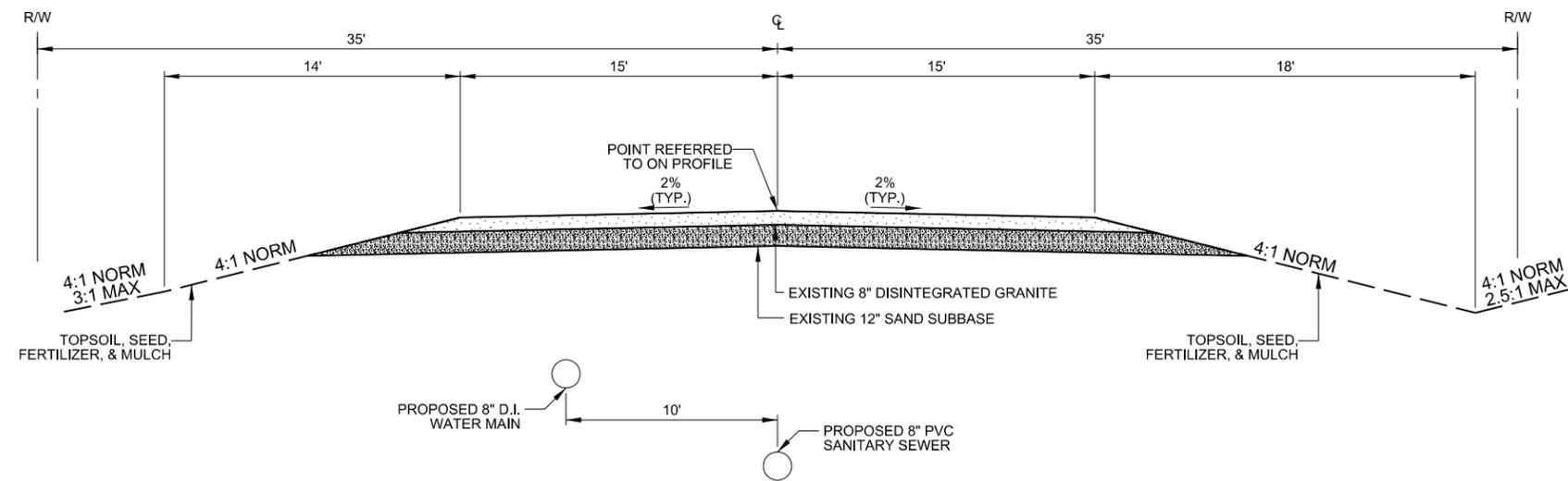
Toll Free (800) 242-8511  
 Milwaukee Area (414) 259-1181  
 Hearing Impaired TDD (800) 542-2289  
 www.DiggersHotline.com

WISCONSIN STATUTE 182.0175 (1974)  
 REQUIRES MINIMUM OF 3 WORK DAYS  
 NOTICE BEFORE YOU EXCAVATE.

PLOTTED ON: 4/12/2016 11:49:10 AM



TYPICAL SECTION  
202M+50 - 205M+61



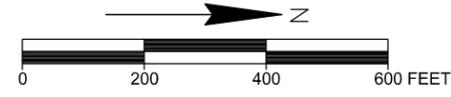
TYPICAL SECTION  
205M+61 - 211M+25

PROJ. NO.

DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION  
CITY OF MARSHFIELD, WISCONSIN

TYPICAL  
SECTIONS

PLOTTED ON: 4/12/2016 11:49:11 AM



NOTES:

- 1. ADVANCED WARNING SIGNS SHALL BE PLACED APPROXIMATELY 500' FROM PROJECT LIMITS.
- 2. ADVANCED WARNING SIGNS SHALL BE 48"x48".
- 3. POSTED SPEED LIMIT ON VETERANS PARKWAY / STH 13 / CTH A IS 45MPH.

VETERANS PARKWAY / STH 13 / CTH A

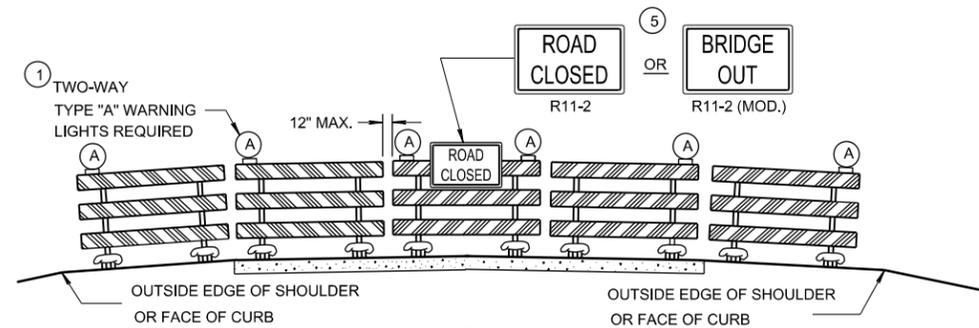
HERITAGE DRIVE

HERITAGE DRIVE

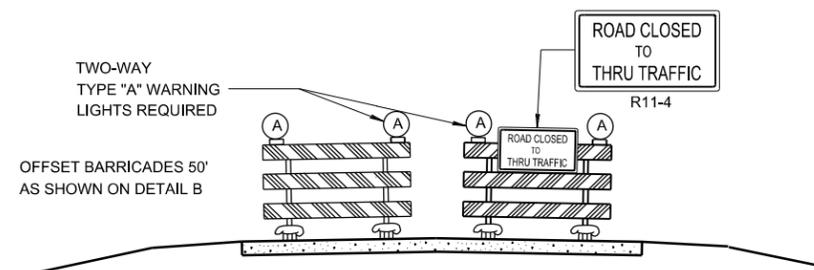
34TH STREET

DRAXLER DRIVE

PLOTTED ON: 4/12/2016 11:49:13 AM



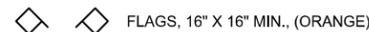
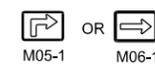
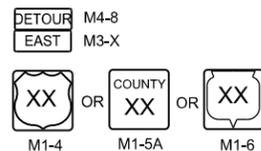
DETAIL D  
ROAD CLOSURE BARRICADE DETAIL  
APPROACH VIEW



DETAIL E  
LANE CLOSURE BARRICADE DETAIL  
APPROACH VIEW

**LEGEND**

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA



**GENERAL NOTES**

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

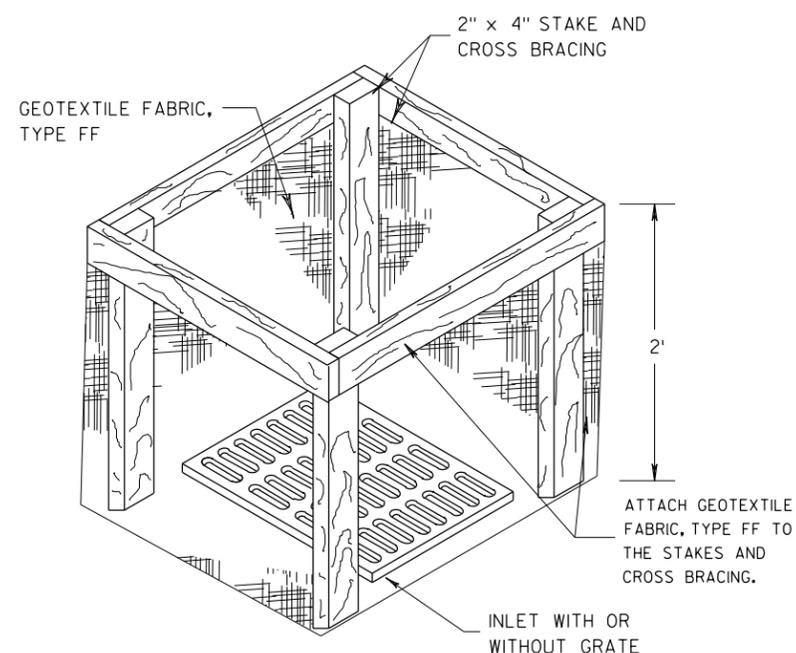
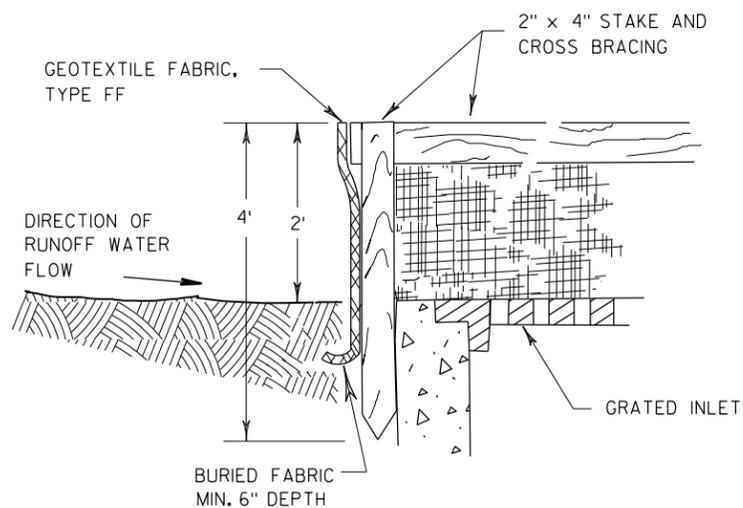
- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).
- 2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- 3 FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- 4 FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- 5 FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 6 INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- 7 "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

PLOTTED ON: 4/12/2016 11:49:14 AM

PROJ. NO.

DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION  
CITY OF MARSHFIELD, WISCONSIN

**BARRICADES AND SIGNS  
FOR  
MAINLINE CLOSURES DETAIL  
(WISDOT SDD 15C 2-6B)**



**INLET PROTECTION, TYPE A**

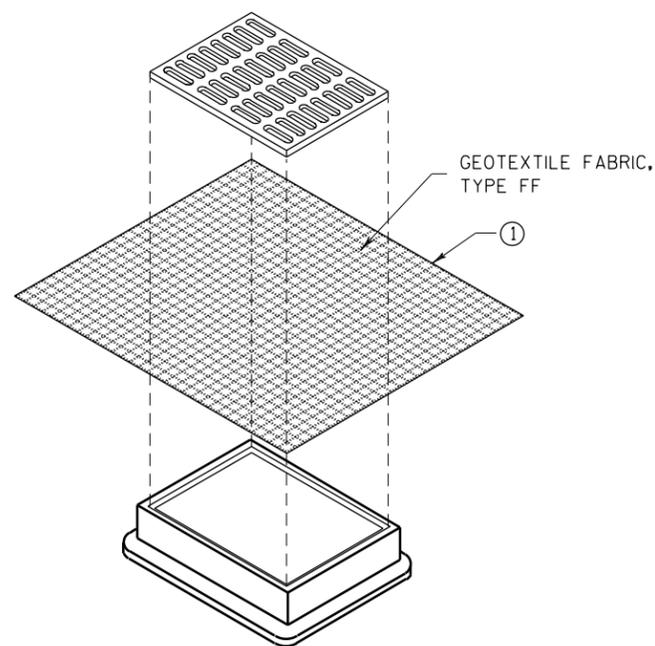
**GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

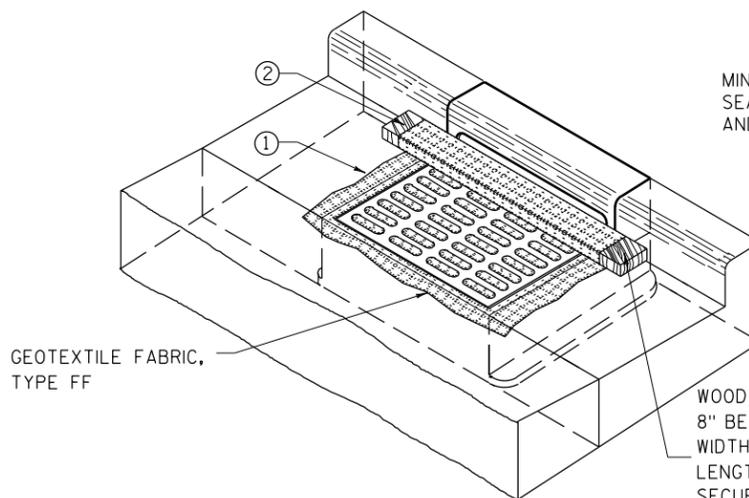
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B (WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



**INLET PROTECTION, TYPE C (WITH CURB BOX)**

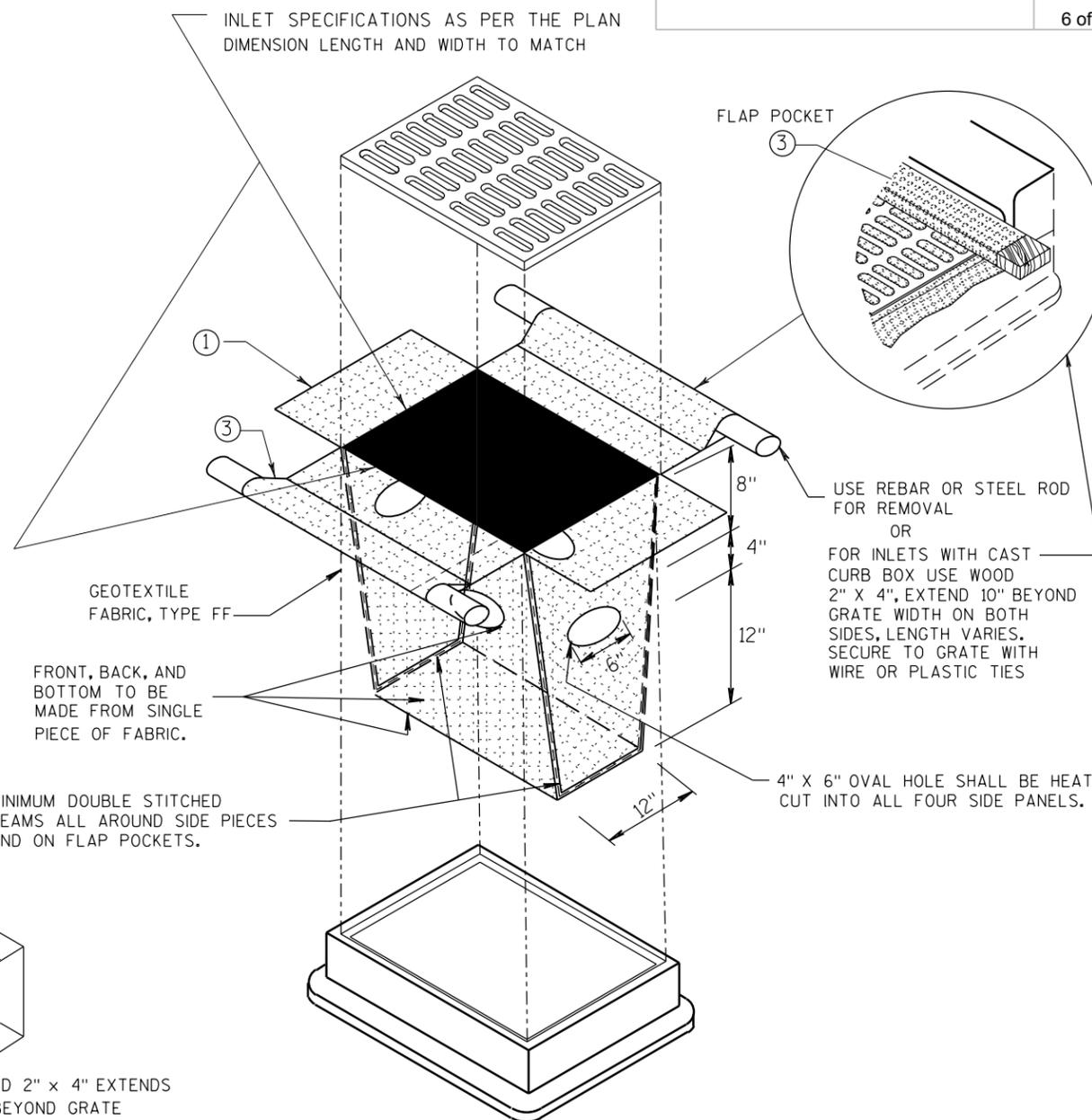
**INSTALLATION NOTES**

**TYPE B & C**

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.  
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**TYPE D**

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.  
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.  
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

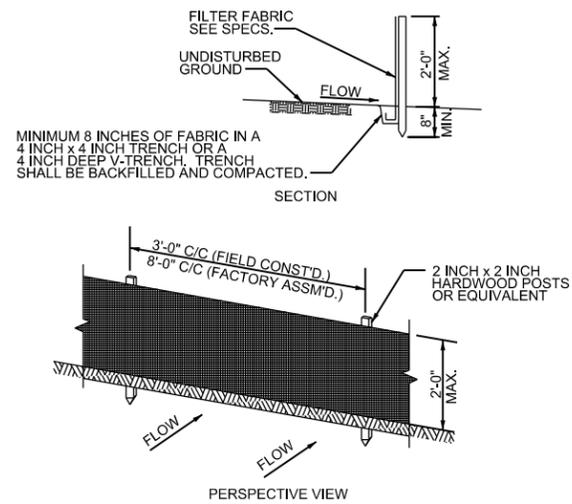


**INLET PROTECTION, TYPE D**

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

PROJ. NO. \_\_\_\_\_  
 DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION  
 CITY OF MARSHFIELD, WISCONSIN  
**INLET PROTECTION DETAIL**  
 TYPE A, B, C, AND D  
 (WISDOT SDD 8E 10-2)

PLOTTED ON: 4/12/2016 11:48:15 AM

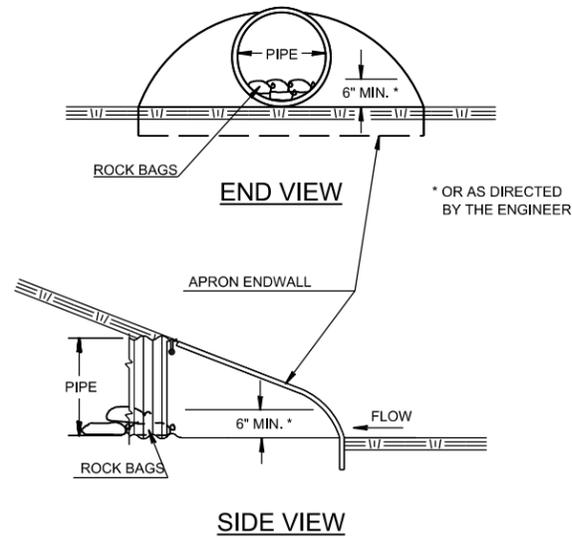


**GENERAL NOTES:**

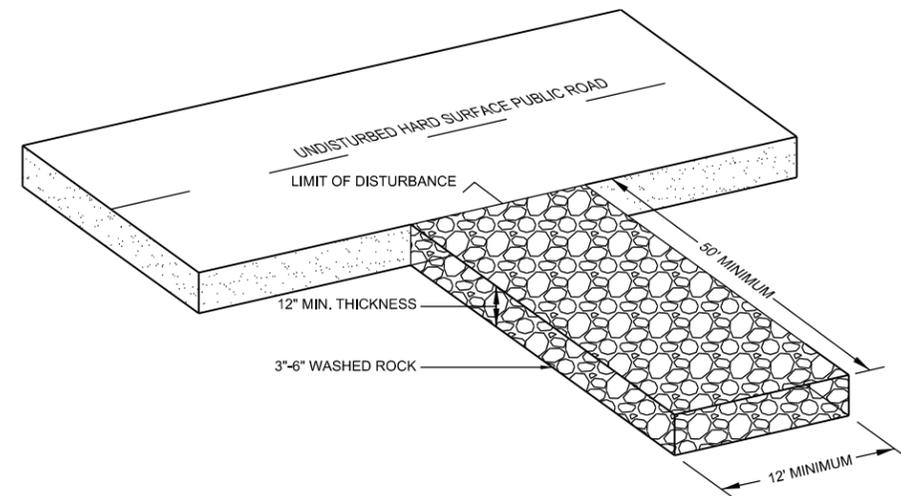
1. ENDS OF FENCE SHALL BE TURNED UPSLOPE 1 TO 2 FEET IN ELEVATION TO PREVENT FLANKING.
2. STAPLE FABRIC WITH 1/2 INCH (MINIMUM) STAPLES TO THE UPSLOPE SIDE OF THE POSTS.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.

**TYPICAL SILT FENCE INSTALLATION**

NTS



**CULVERT PIPE DITCH CHECK**

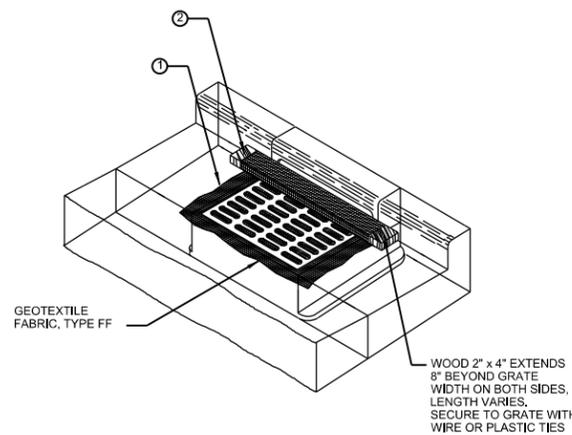


**VEHICLE TRACKING PAD**

NTS

NOTES: 1) ANY WORK WITHIN THE 30' CLEAR ZONE SHALL WARRANT A CLOSED SHOULDER. SEE "SHOULDER CLOSURE TRAFFIC CONTROL DETAIL."

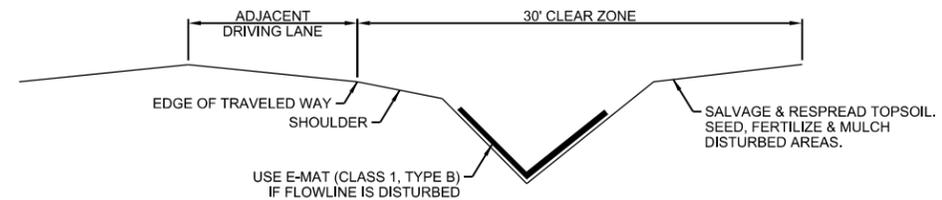
2) CONTRACTOR SHALL UTILIZE TEMPORARY PRECAST CONCRETE BARRIERS WHEN EXCAVATION IS TO REMAIN OPEN OVERNIGHT WITHIN THE 30' CLEAR ZONE OR WHEN MATERIALS, EQUIPMENT, SPOIL, SHORING, ETC WILL REMAIN OVERNIGHT WITHIN THE 30' CLEAR ZONE.



**INSTALLATION NOTES:**  
 TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**INLET PROTECTION, TYPE C**

NTS (WITH CURB BOX)



**TYPICAL SECTION**

NTS

PROJ. NO.

DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION  
 CITY OF MARSHFIELD, WISCONSIN

EROSION CONTROL DETAIL SHEET

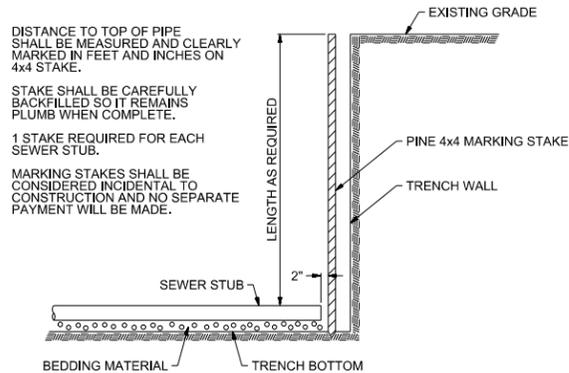
PLOTTED ON: 4/12/2016 11:49:15 AM

**SPECIFICATIONS:**

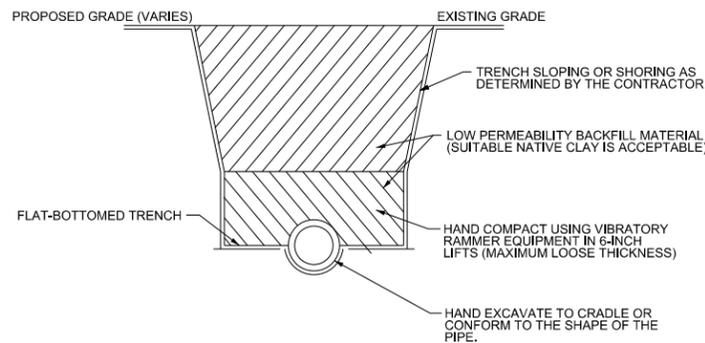
- MANUFACTURED TO ASTM C-478 SPECIFICATIONS
- CONCRETE STRENGTH - 4000 PSI
- STEEL DESIGN IN ACCORDANCE WITH ASTM C-478 0.12 SQ. IN./FT.
- ALL REINFORCING IS DESIGNED FOR MIN. 1" COVER
- STEP - STEEL, PLASTIC COATED 16" ON CENTER
- MONOLITHIC BASE WITH INLET AND OUTLET OPENING AS REQUIRED
- 48" DIAMETER MANHOLE WILL ACCOMMODATE A 24" DIAMETER PIPE PASSING STRAIGHT THROUGH.
- 48" DIAMETER-5" WALL 890 LBS./FT.

NOTE: ALL STRUCTURES AND COMPONENTS SHALL BE LABELED BY THE MANUFACTURER IN ACCORDANCE WITH PLAN/SCHEDULE IDENTIFICATION

SPECIAL FLOWLINE CONFIGURATION REQUIRED: ALL MANHOLES TO INCLUDE 2-8" BRANCH FLOWLINES AS SHOWN IN THIS DETAIL. MANHOLE MANUFACTURER SHALL NOT CAST HOLES FOR FUTURE BRANCH FLOWLINES UNLESS SHOWN ON PLAN & PROFILE SHEET FOR EACH SPECIFIC MANHOLE.



**SANITARY SEWER STUB MARKING STAKE DETAIL**

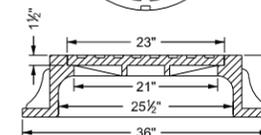


**TRENCH PLUG**



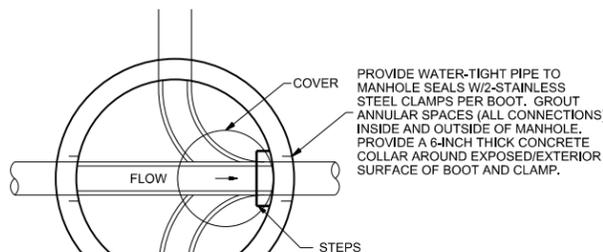
MANHOLE LID WITH TYPE B INDENTED TOP DESIGN  
NEENAH NO. R-1550-A

LOW PROFILE DESIGNATED "JM-LP" LOW PROFILE FRAME - NEENAH NO. R-1689 (NON-ROCKING)



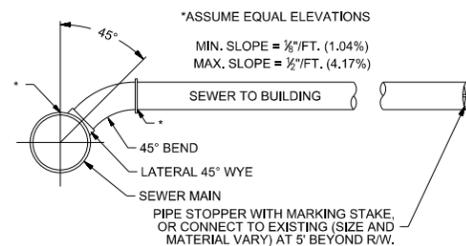
NOTE: TYPE "JM" IS SELF SEALING, NOT NON-ROCKING STYLE. LID HAS CONCEALED PICKHOLES WITH A T-SEAL GASKET AND MACHINED BEARING.

**MANHOLE COVER - TYPE "JM"**

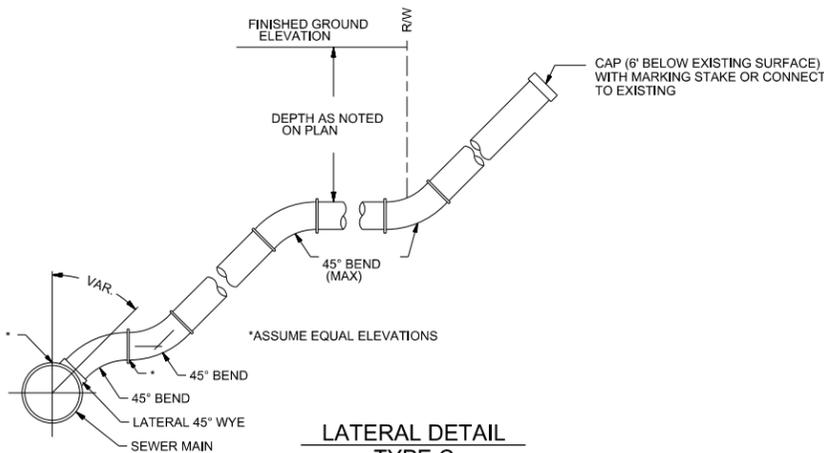


DEFINED FLOW CHANNELS REQUIRED FROM EACH INFLOWING PIPE TO THE DISCHARGE PIPE. (ALSO REQUIRED FOR DEAD-END MANHOLES.) ALL FLOWLINES SHALL BE GROUND SMOOTH.

NOTE: INSIDE DROP CONNECTIONS SHALL NOT BE INSTALLED WITHIN 90° OF THE STEPS. SEE DROP MANHOLE DETAIL.



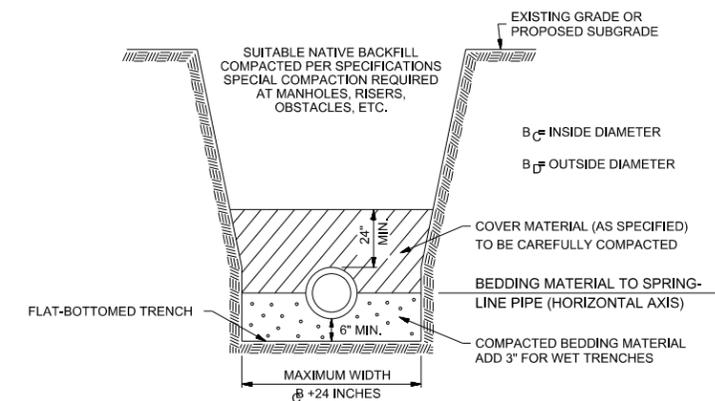
**LATERAL DETAIL TYPE A**



NOTES: MAINTAIN 30" HORIZONTAL CLEARANCE WHERE SANITARY SEWER LATERALS PARALLEL WATER SERVICES.

USE COVER MATERIAL AS BACKFILL FOR VERTICAL RISER

FERNCO CONNECTOR IF EXISTING LATERAL IS NOT PVC. GASKETED COUPLING IF EXISTING LATERAL IS PVC.



NOTES:

BEDDING AND COVER MATERIAL: CRUSHED STONE CHIPS MEETING THE FOLLOWING REQUIREMENTS.

SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
1/2"	100
3/8"	90 TO 100
NO. 8	0 TO 15
NO. 30	0 TO 3

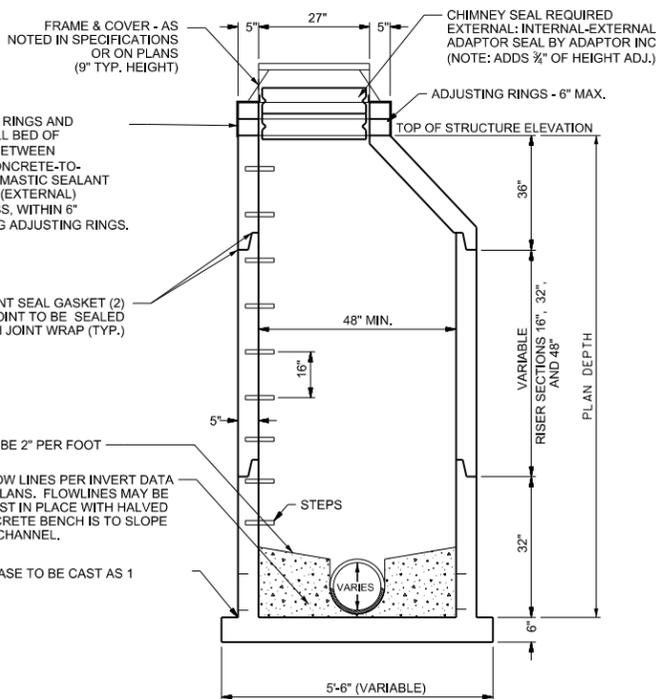
TRENCH WIDTH: THE MAXIMUM TRENCH WIDTH AT THE TOP OF THE PIPE SHALL BE Bc +24 INCHES.

SPECIAL COMPACTION REQUIRED AT MANHOLES, RISERS, ETC.

**TYPICAL TRENCH SECTION  
SANITARY SEWER CONSTRUCTION**

GRAVITY MAINS, LATERALS AND FORCE MAINS

\* AT APPROX. 20' UPSTREAM OF MANHOLES, INSTALL APPROVED NATIVE MATERIAL (CLAY TRENCH PLUG) TO FULL TRENCH DEPTH, 6' ALONG PIPE, ACROSS FULL TRENCH WIDTH, IN LEU OF BEDDING AND COVER MATERIAL.



**PRE-CAST CONCRETE SANITARY MANHOLE, TYPE 1 DETAIL**

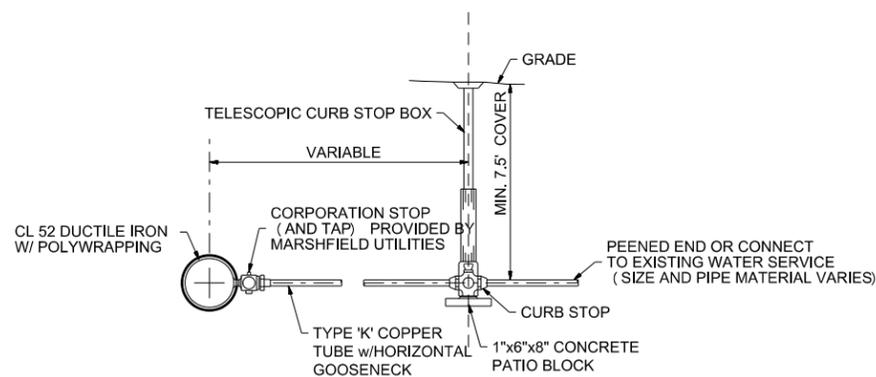
NOTE: LENGTH OF SANITARY SEWER MAINS = MANHOLE CENTER TO MANHOLE CENTER.  
PIPE SLOPE CALCULATED FROM INSIDE MANHOLE WALL TO INSIDE MANHOLE WALL.  
INVERT ELEVATION IS AT INSIDE MANHOLE WALL.  
PAY DEPTH IS FROM BOTTOM OF CASTING TO LOWEST INVERT.

PROJ. NO.

DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION  
CITY OF MARSHFIELD, WISCONSIN

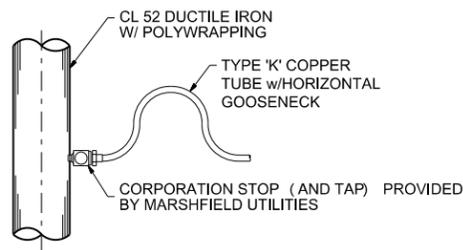
**SANITARY SEWER DETAILS**

4/12/2016 11:49:16 AM



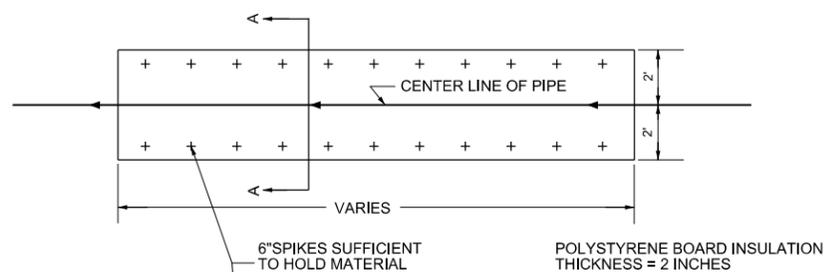
TYPICAL WATER SERVICE CONNECTION

PROFILE VIEW

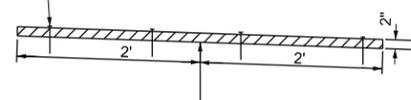


TYPICAL WATER SERVICE CONNECTION

PLAN VIEW



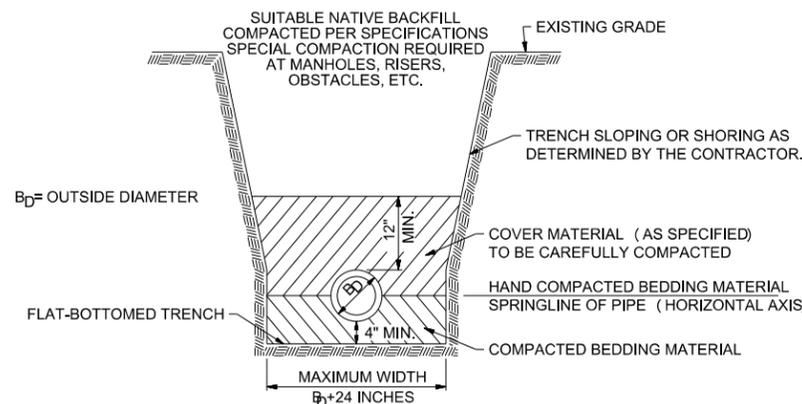
TYPICAL PLAN



SECTION A - A

WATER MAIN / HYDRANT LEAD INSULATION

NOTE: SEE PLANS FOR EXACT DIMENSIONS OF THE DIFFERENT LOCATIONS OF INSULATION.



NOTES:

BEDDING AND COVER MATERIAL:

MATERIAL SHALL BE BANK-RUN SAND, CRUSHED BANK RUN GRAVEL, OR OTHER APPROVED MATERIAL CONFORMING SUBSTANTIALLY TO THE FOLLOWING GRADING REQUIREMENTS.

SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
1"	100
3/4"	85 TO 100
NO. 40	15 TO 35
NO. 200	2 TO 10

TYPICAL TRENCH SECTION WATER MAIN AND WATER SERVICE CONSTRUCTION

NOTES: EXISTING WATER SYSTEM AND PROPOSED ISOLATION GATE VALVES SHALL ONLY BE OPERATED BY MARSHFIELD UTILITIES.

ALL METALLIC PIPE, VALVES, FITTINGS AND HYDRANTS TO BE POLYWRAPPED.

CONDUCTIVITY PROVISIONS SUCH AS STRAPS OR CABLES ARE REQUIRED FOR ALL JOINTS INCLUDING PIPE, VALVES, FITTINGS AND SLEEVES. CONDUCTIVITY TESTING WILL BE REQUIRED.

HYDROSTATIC TEST PRESSURE FOR WATER PIPE SHALL BE 150 PSI.

SPECIAL COMPACTION IS REQUIRED AT HYDRANTS, VALVE BOXES, CURB BOXES, AND OTHER RISERS.

JOINT RESTRAINT SHALL BE REQUIRED, VIA RESTRAINING MECHANICAL JOINT GLANDS (MEGA LUGS, ETC.)

LENGTH OF PIPELINE TO BE RESTRAINED SHALL BE AS FOLLOWS:

RUN OF TEE  
ALL SIZES = 10 LF EACH SIDE OF BRANCH

BRANCH OF TEE:

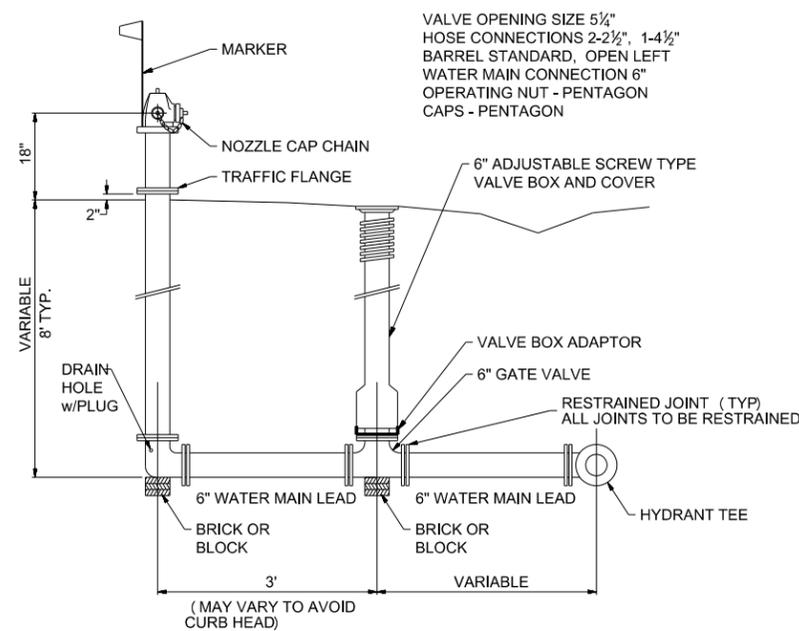
6" & 8" PIPE = 35 LF  
10" PIPE = 45 LF  
12" PIPE = 55 LF  
16" PIPE = 65 LF

BENDS:

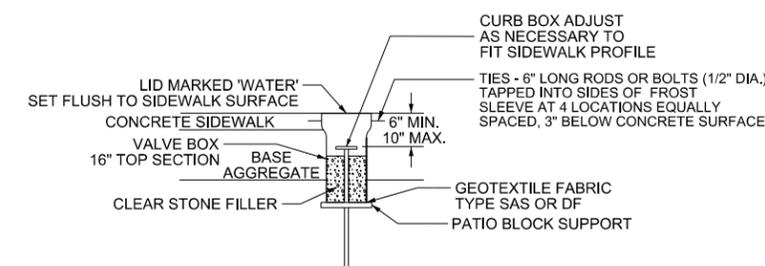
6" & 8" PIPE = 25 LF EACH SIDE OF FITTING  
10" PIPE = 35 LF EACH SIDE OF FITTING  
12" PIPE = 45 LF EACH SIDE OF FITTING  
16" PIPE = 55 LF EACH SIDE OF FITTING

DEAD ENDS:

6" & 8" PIPE = 35 LF  
10" PIPE = 45 LF  
12" PIPE = 55 LF  
16" PIPE = 65 LF



TYPICAL HYDRANT, HYDRANT LEAD, AND GATE VALVE INSTALLATION



NOTE: CURB BOX TO BE CENTERED 1' BEYOND BACK OF CURB

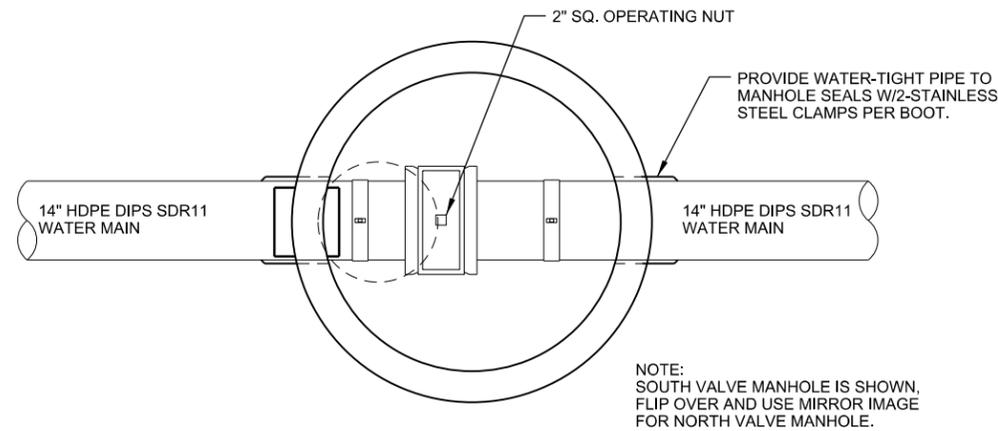
CURB BOX FROST SLEEVE

PROJ. NO.

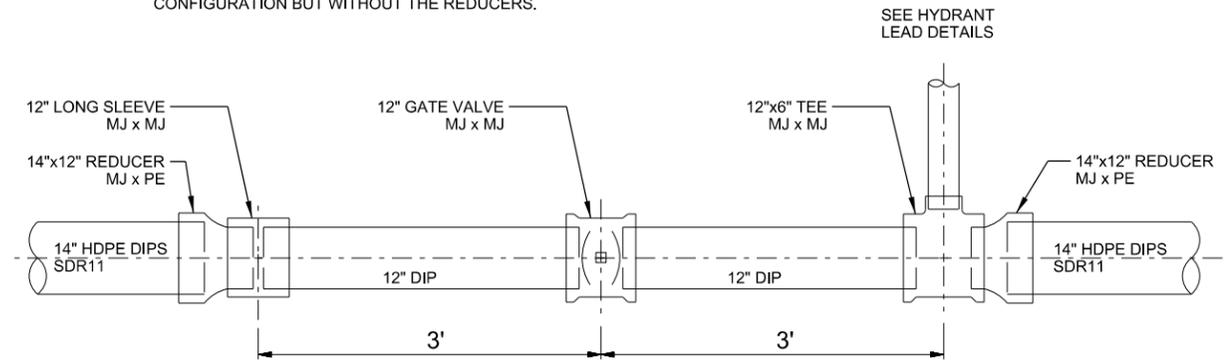
DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION  
CITY OF MARSHFIELD, WISCONSIN

WATER DETAILS

PLOTTED ON: 4/12/2016 11:49:17 AM

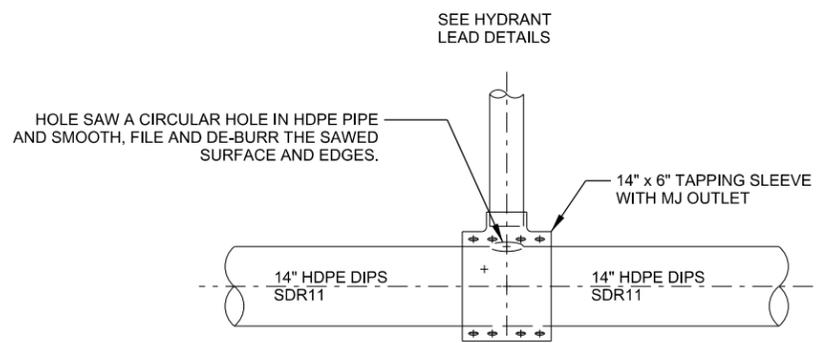
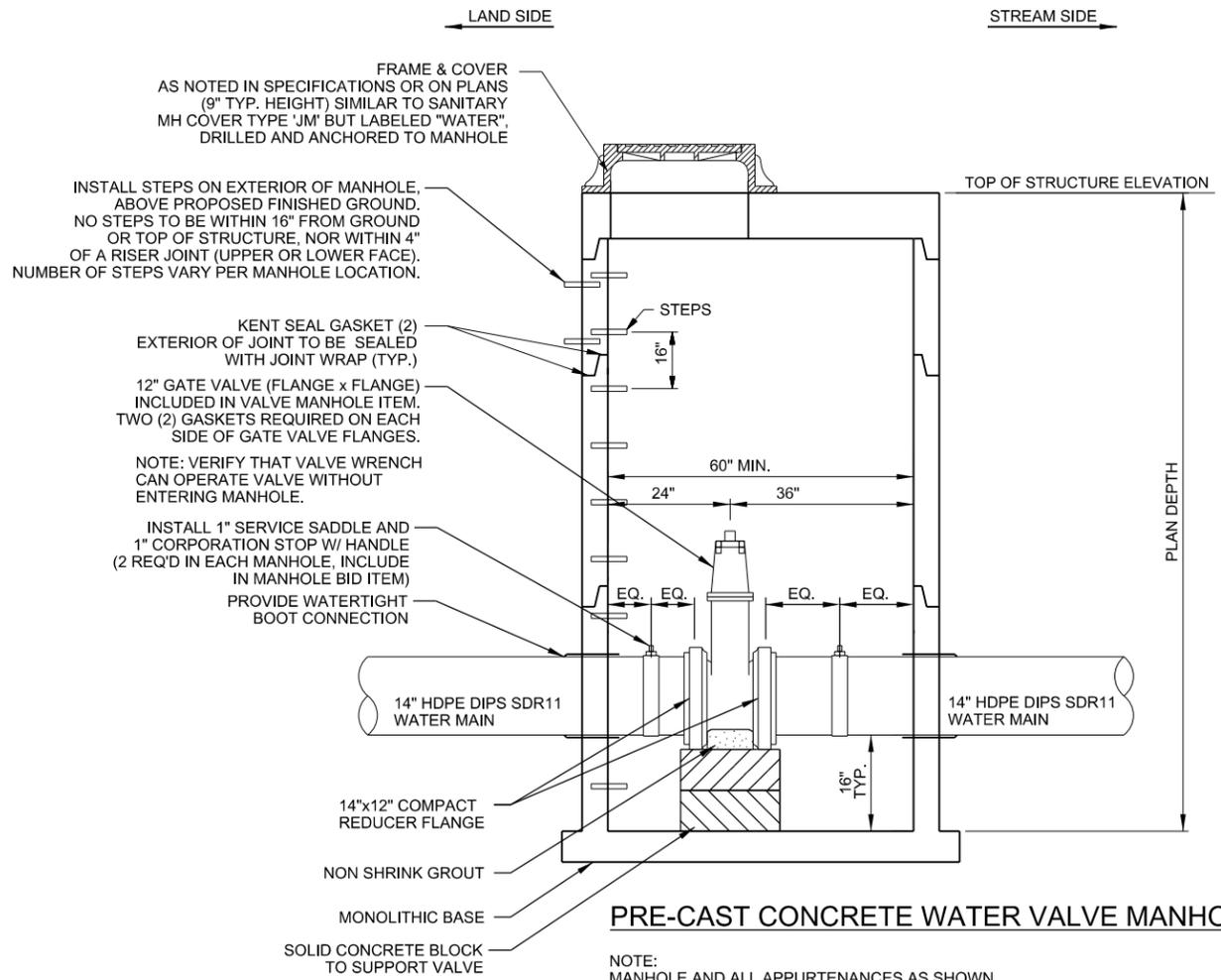


NOTE:  
-ALL MECHANICAL JOINTS SHALL BE RESTRAINED (MEGA-LUG).  
-PIPE STIFFENERS ARE REQUIRED AT THE ENDS OF THE 14" HDPE PIPE(S).  
-THE GAP BETWEEN PLAIN END/PIPE WITHIN A SLEEVE SHALL BE 1" OR LESS.  
-FOR THE 12" DIP ALTERNATE (INSTALLED VIA HDD), UTILIZE A SIMILAR CONFIGURATION BUT WITHOUT THE REDUCERS.



**HYDRANT TEE AND MAINLINE GATE VALVE INSTALLED ON 14" HDPE WATER MAIN**

PLAN VIEW DETAIL



**HYDRANT TEE (WITHOUT MAINLINE GATE VALVE) INSTALLED ON 14" HDPE WATER MAIN**

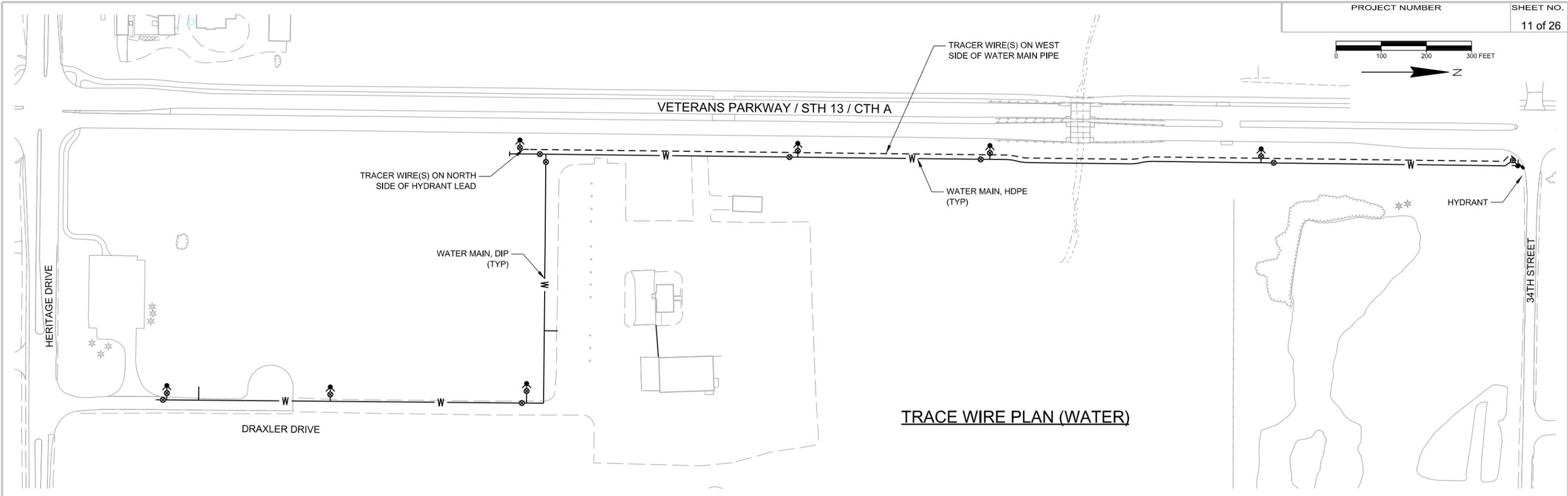
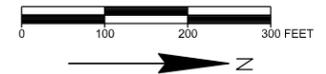
PLAN VIEW DETAIL

NOTE:  
-FOR THE 12" DIP ALTERNATE (INSTALLED VIA HDD), UTILIZE A 12" X 6" TEE (MJxMJ) AND A 12" LONG SLEEVE, SPACED 3' CENTER TO CENTER.

PROJ. NO.  
DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION  
CITY OF MARSHFIELD, WISCONSIN

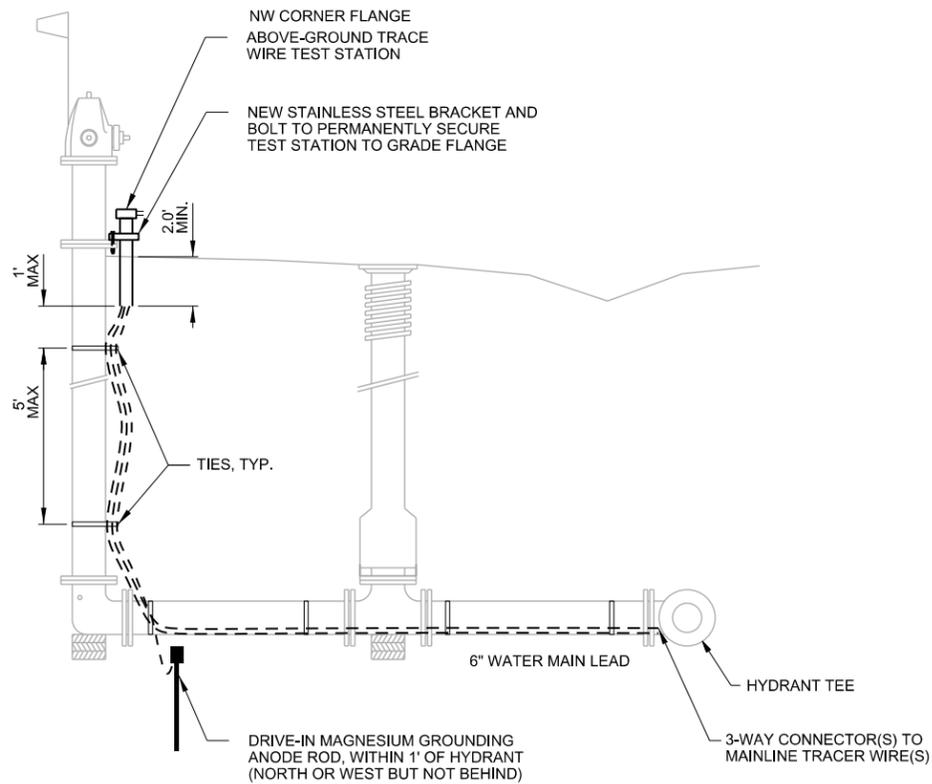
WATER DETAILS

PLOTTED ON: 4/12/2016 11:49:18 AM



TRACE WIRE PLAN (WATER)

PLOTTED ON: 4/12/2016 11:49:19 AM



TYPICAL TRACE WIRE AT HYDRANTS (INC HYDRANT LEAD)

NOTES:

- TRACER WIRES SHOWN AWAY FROM PIPE FOR CLARITY.
- INSTALL TRACER WIRE ON THE NORTH OR WEST SIDES OF PIPES.
- ON HORIZONTAL RUNS, TRACER WIRE SHALL BE LOCATED 45° BELOW SPRINGLINE.
- FASTEN TRACER WIRE TO PIPE USING APPROVED TAPE OR PLASTIC TIES, SPACED 5- FEET APART (MAX) AND WITHIN 1-FOOT OF A VALVE/FITTING GLAND.
- TRACER WIRES SHALL BE 12 AWG COPPER CLAD STEEL (PER SPECIFICATIONS AND COLORED BLUE AND WHITE (2 WIRES).
- GROUND WIRES SHALL BE 14 AWG COPPER CLAD STEEL AND FACTORY CONNECTED TO GROUND RODS (PER SPECIFICATIONS) AND COLORED RED.
- GROUND RODS SHALL BE DRIVE-IN MAGNESIUM GROUNDING ANODES (PER SPECIFICATIONS).
- CONNECT MAINLINE AND LATERAL TRACER WIRES USING A 3-WAY CONNECTOR (PER SPECIFICATIONS).
- TEST STATIONS SHALL BE 3-TERMINAL, 1-INCH CONDUIT, INSTALLED ON THE NORTHWEST CORNER OF HYDRANT FLANGE.

PROJ. NO.

DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION  
CITY OF MARSHFIELD, WISCONSIN

TRACER WIRE DETAILS

PROPOSED WATER MAIN

FROM STATION	LOCATION	TO STATION	LOCATION	14" HDPE (via HDD) LF	12" DI LF	8" DI LF	6" DI LF
202M+60	10' LT	211M+16.8	10' LT			857	
202M+83	10' LT	202M+83	28' LT				18
206M+45	10' LT	206M+45	28' LT				18
210M+79	10' LT	210M+79	39.5' LT				30
<hr/>							
9A+89.6	10' LT	15A+39	10' LT			549	
<hr/>							
60V+50	74' RT	61V+07.7	74' RT		58		
60V+50	74' RT	60V+50	57' RT				17
61V+07.7	74' RT	82V+30.2	74' RT	2123			
<hr/>							
66V+59	74' RT	66V+65	74' RT				6
66V+65	74' RT	66V+65	57' RT				17
70V+90	74' RT	70V+90	57' RT				17
76V+90	74' RT	76V+90	57' RT				17
82V+30.2	74' RT	82V+45.1	59.1' RT		21		
82V+45.1	59.1' RT	82V+49.4	63.3' RT				6
<hr/>							
PROJECT TOTAL				2123	79	1406	146

PROPOSED HYDRANTS

		FIRE HYDRANT, EA.				FLANGE ELEV.
STATION	LOCATION	5-FT BURY	6-FT BURY	8-FT BURY	9-FT BURY	
202M+83	28' LT		1			1221.64
206M+45	28' LT		1			1219.25
210M+79	39.5' LT	1				1213.97
<hr/>						
60V+50	57' RT			1		1216.65
66V+65	57' RT			1		1210.65
70V+90	57' RT			1		1209.98
76V+90	57' RT			1		1210.40
82V+45.1	59.1' RT					
82V+49.4	63.3' RT				1	1214.37
<hr/>						
PROJECT TOTAL		1	2	4	1	

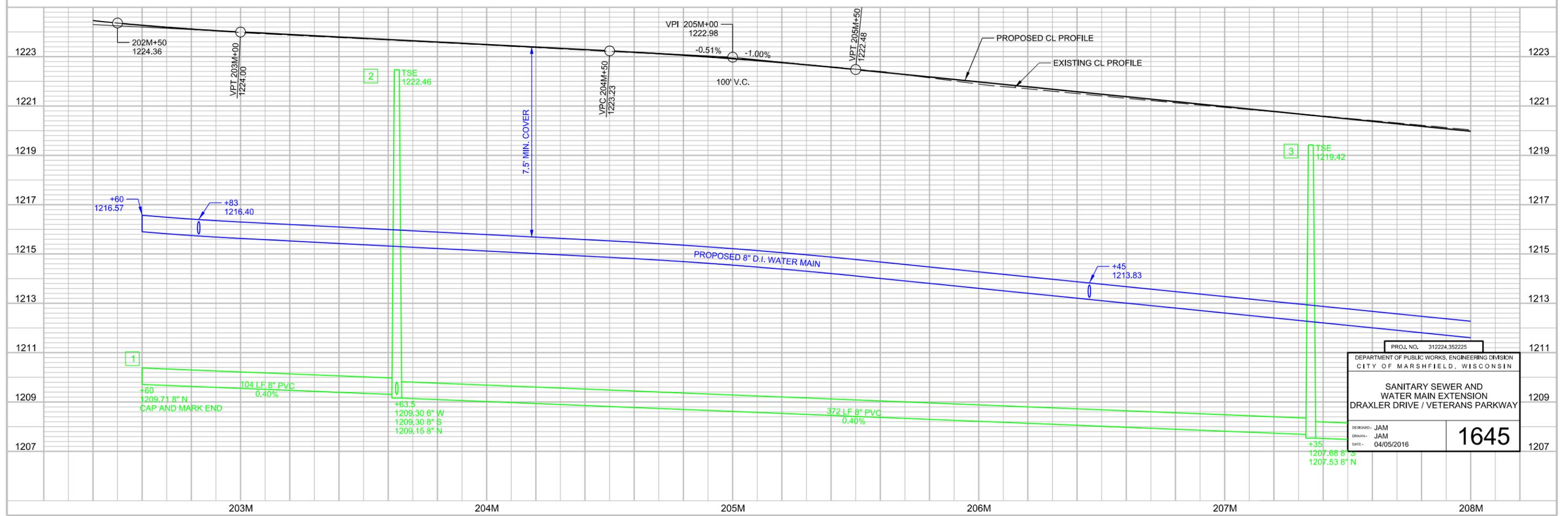
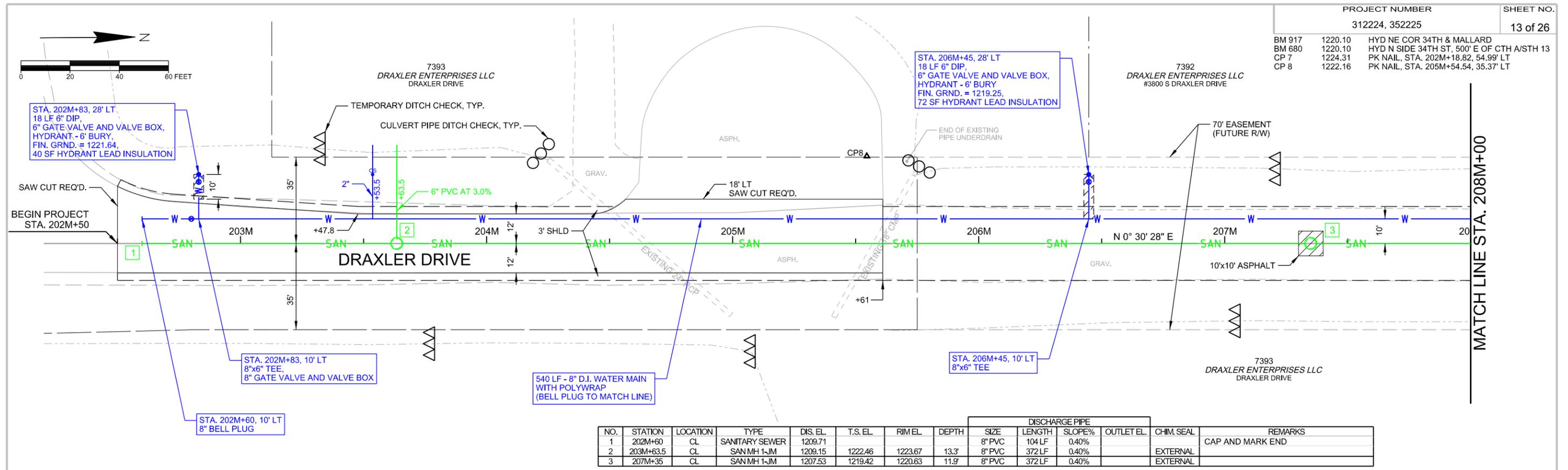
PROPOSED VALVES AND FITTINGS

STATION	LOCATION	VALVE & BOX 12" EACH	VALVE & BOX 8" EACH	VALVE & BOX 6" EACH	TEE 12" X 8" EACH	TEE 12" X 6" EACH	TEE 8" X 6" EACH	TAPPING SLEEVE 14" X 6" EACH	REDUCER 14" X 12" EACH	REDUCER, MJ X PE 14" X 12" EACH	90 D BEND 8" EACH	45 D BEND 12" EACH	22 1/2 D BEND 6" EACH	LONG SLEEVE 12" EACH	STIFFENING INSERT, 14" EACH	PLUG 12" EA	PLUG 8" EA	BUTRESS 12" EA	WATER MAIN INSULATION SF
202M+60	10' LT																1		
202M+80	10' LT																		
202M+83	28' LT		1																40
206M+45	10' LT																		
206M+45	28' LT																		72
210M+79	10' LT		1																
210M+79	39.5' LT																		120
211M+16.8	10' LT										1								
<hr/>																			
60V+50	74' RT										1							1	
60V+50	57' RT																		1
61V+07.7	74' RT	1	1		1				1										
66V+65	74' RT	1								2					1			2	
66V+65	57' RT																		
70V+90	74' RT											1							
70V+90	57' RT												1						
76V+90	74' RT																		
76V+90	57' RT																		
82V+30.2	74' RT								1				1						
82V+45.1	59.1' RT										1								
82V+49.4	63.3' RT																		
<hr/>																			
PROJECT TOTAL		2	3	8	1	3	3	2	2	2	1	1	2	1	2	1	1	1	232

PROPOSED WATER SERVICES

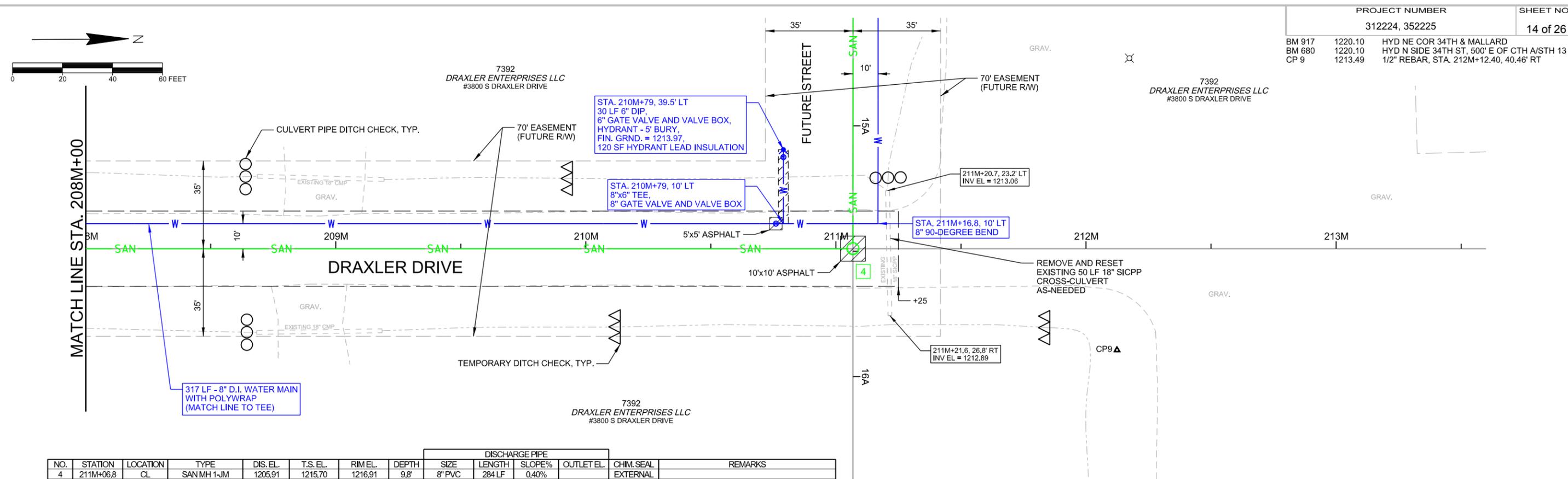
ADDRESS	STATION	LOCATION	TAP & CORP, 2" EACH	CURB STOP & BOX, 2" EACH	COPPER, 2" LF
<b>KWIK TRIP</b>	203M+53.5	LT	1	1 (28' LT)	30
3800 S DRAXLER DR	13A+80	LT	1	1 (28' LT)	30
<hr/>					
PROJECT TOTAL			2	2	60

PLOTTED ON: 4/12/2016 11:49:20 AM

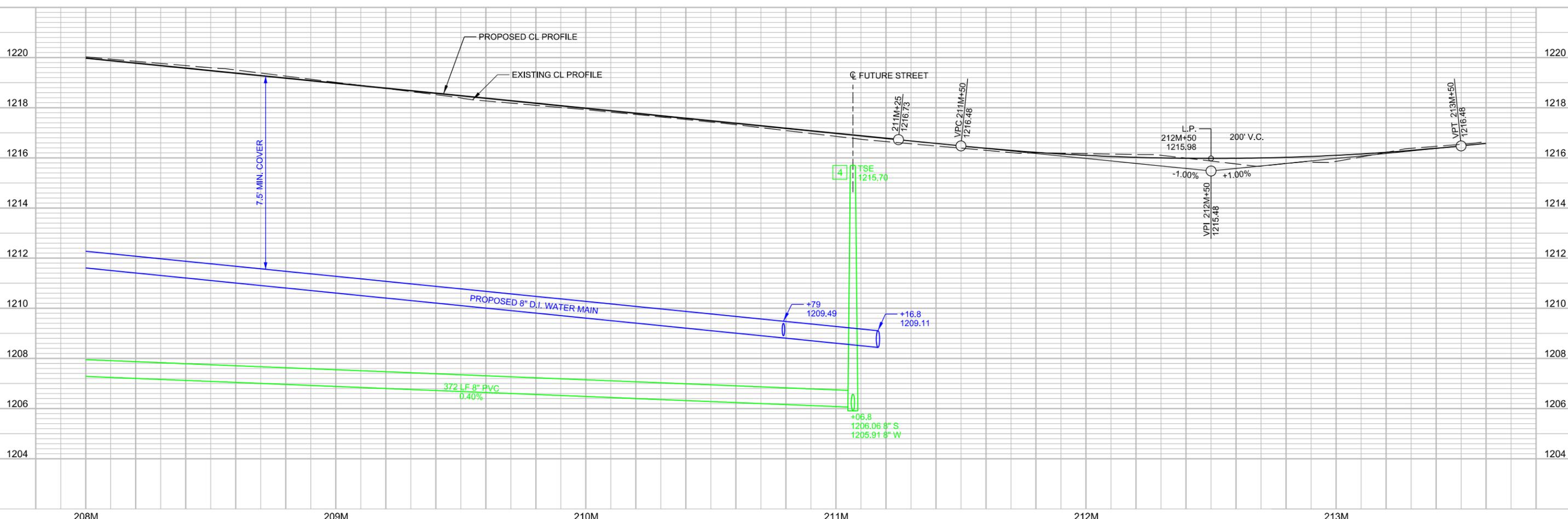


PROJ. NO. 312224.352225  
 DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION  
 CITY OF MARSHFIELD, WISCONSIN  
**SANITARY SEWER AND WATER MAIN EXTENSION**  
 DRAXLER DRIVE / VETERANS PARKWAY  
 DESIGNED: JAM  
 DRAWN: JAM  
 DATE: 04/05/2016  
**1645**

PLOTTED ON: 4/12/2016 11:48:24 AM



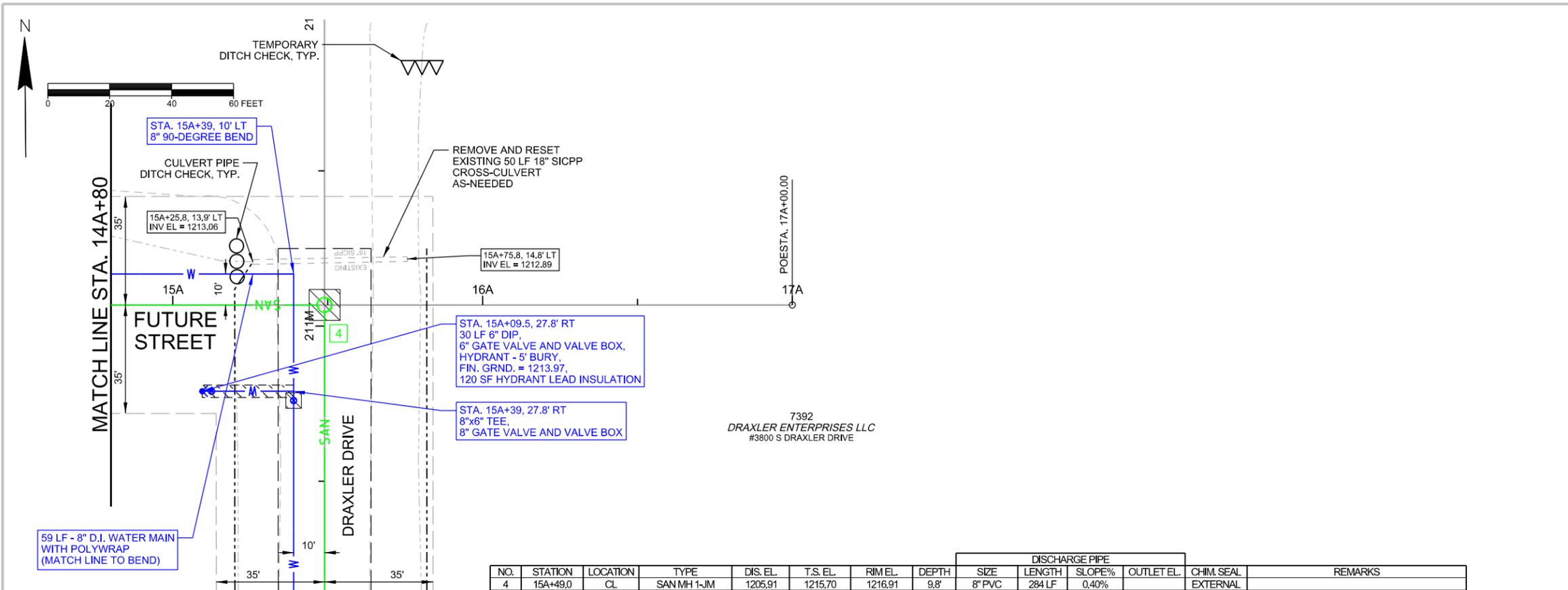
PROJECT NUMBER			SHEET NO.
312224, 352225			14 of 26
BM 917	1220.10	HYD NE COR 34TH & MALLARD	
BM 680	1220.10	HYD N SIDE 34TH ST, 500' E OF CTH A/STH 13	
CP 9	1213.49	1/2" REBAR, STA. 212M+12.40, 40.46' RT	



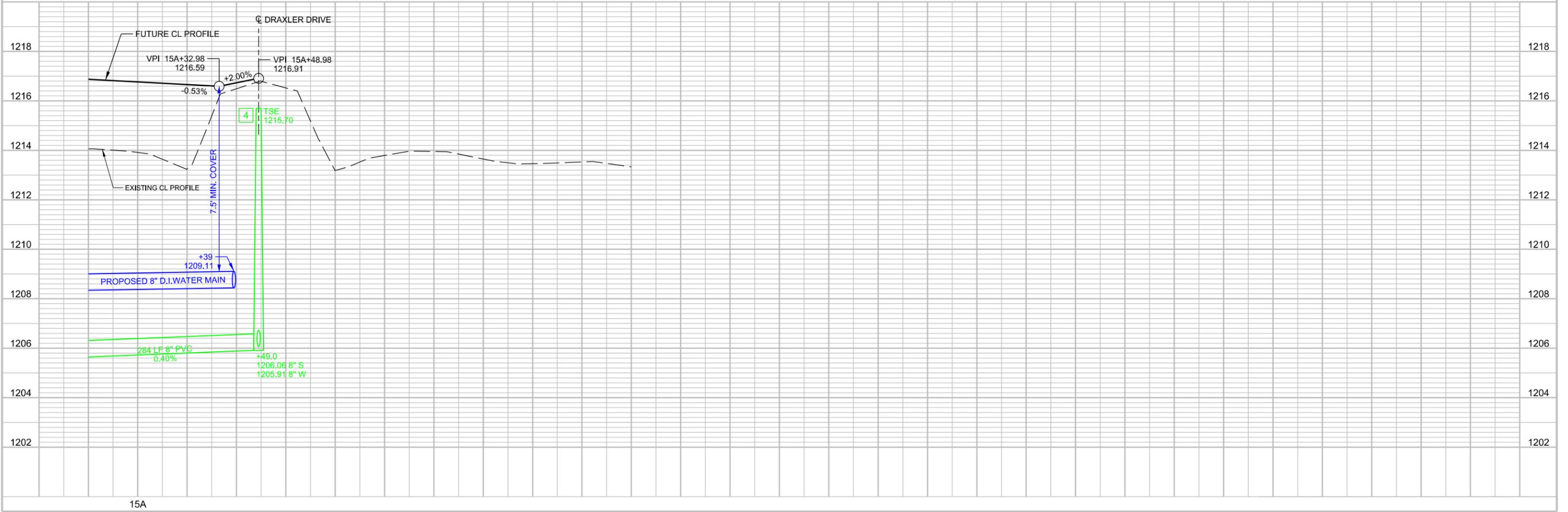
PLOTTED ON: 4/12/2016 11:45:26 AM



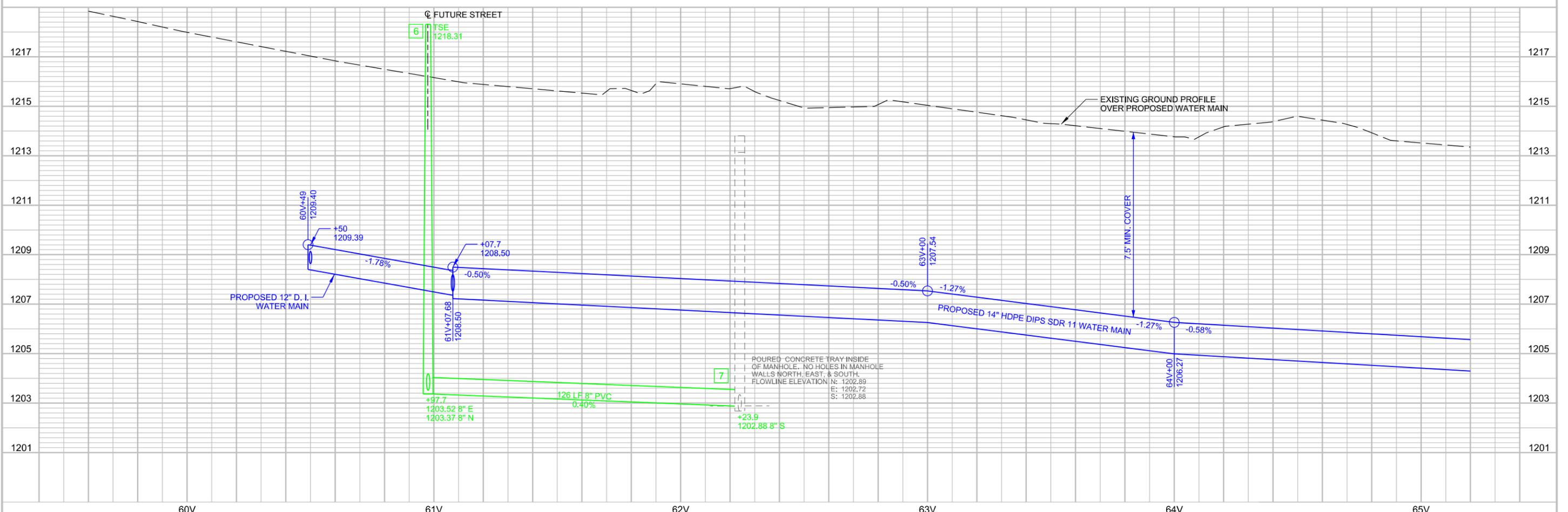
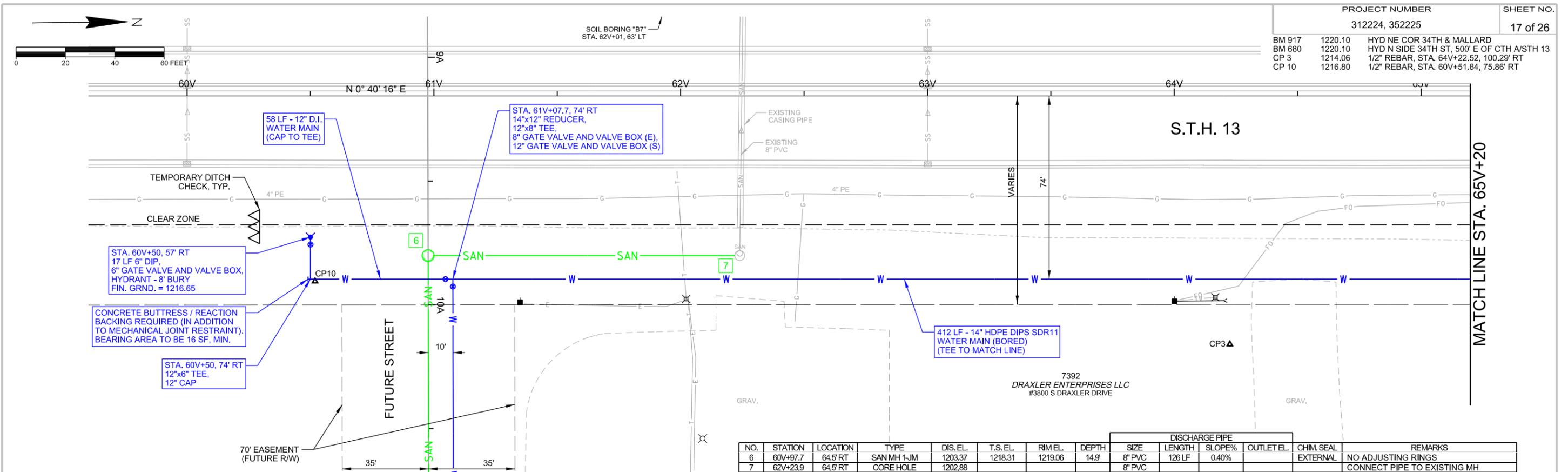
PROJECT NUMBER		SHEET NO.
312224, 352225		16 of 26
BM 917	1220.10	HYD NE COR 34TH & MALLARD
BM 680	1220.10	HYD N SIDE 34TH ST, 500' E OF CTH A/STH 13
CP 9	1213.49	1/2" REBAR, STA. 15A+89.39, 105.62' LT



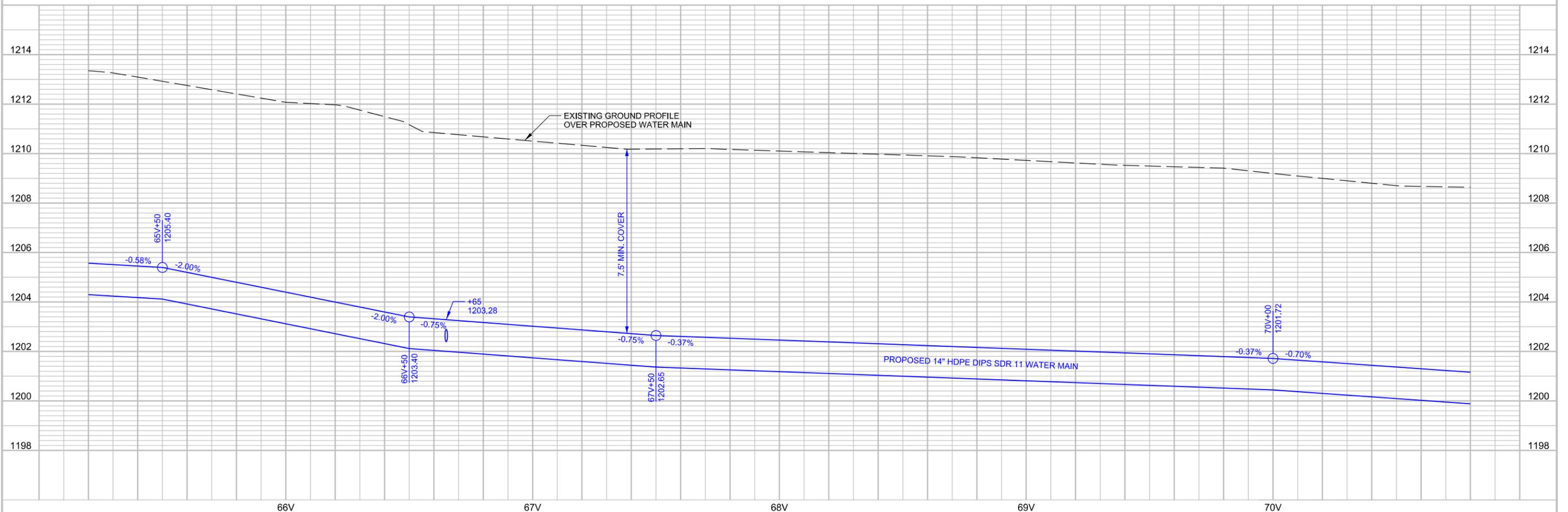
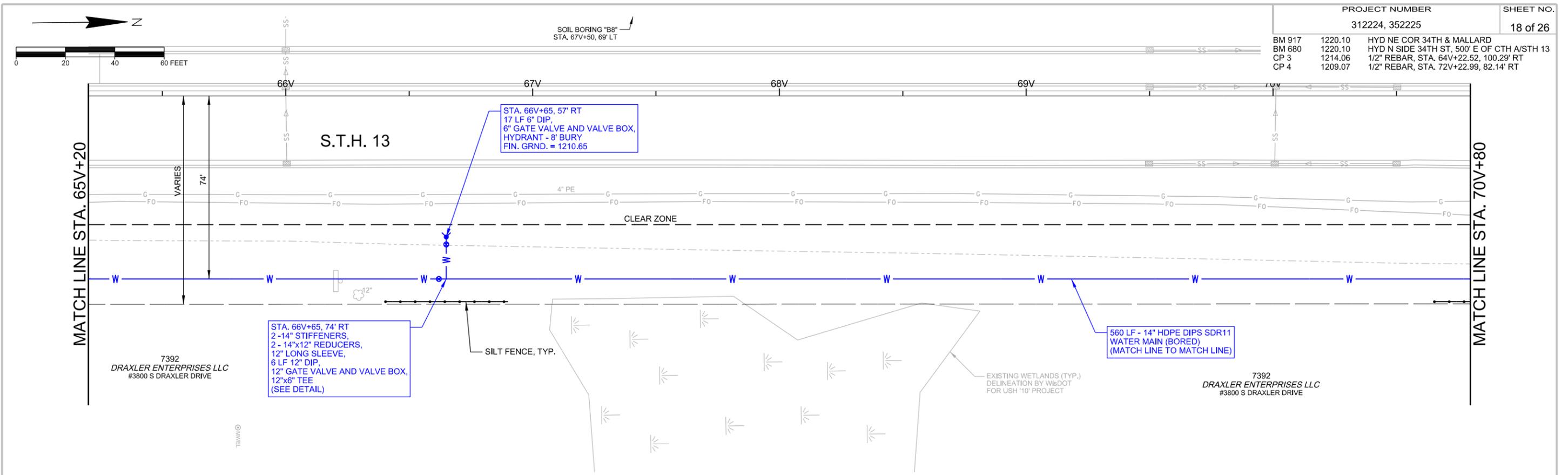
NO.	STATION	LOCATION	TYPE	DIS. EL.	T.S. EL.	RIM EL.	DEPTH	DISCHARGE PIPE			CHIM. SEAL	REMARKS
								SIZE	LENGTH	SLOPE%		
4	15A+49.0	CL	SANMH 1-JM	1205.91	1215.70	1216.91	9.8'	8" PVC	284 LF	0.40%		



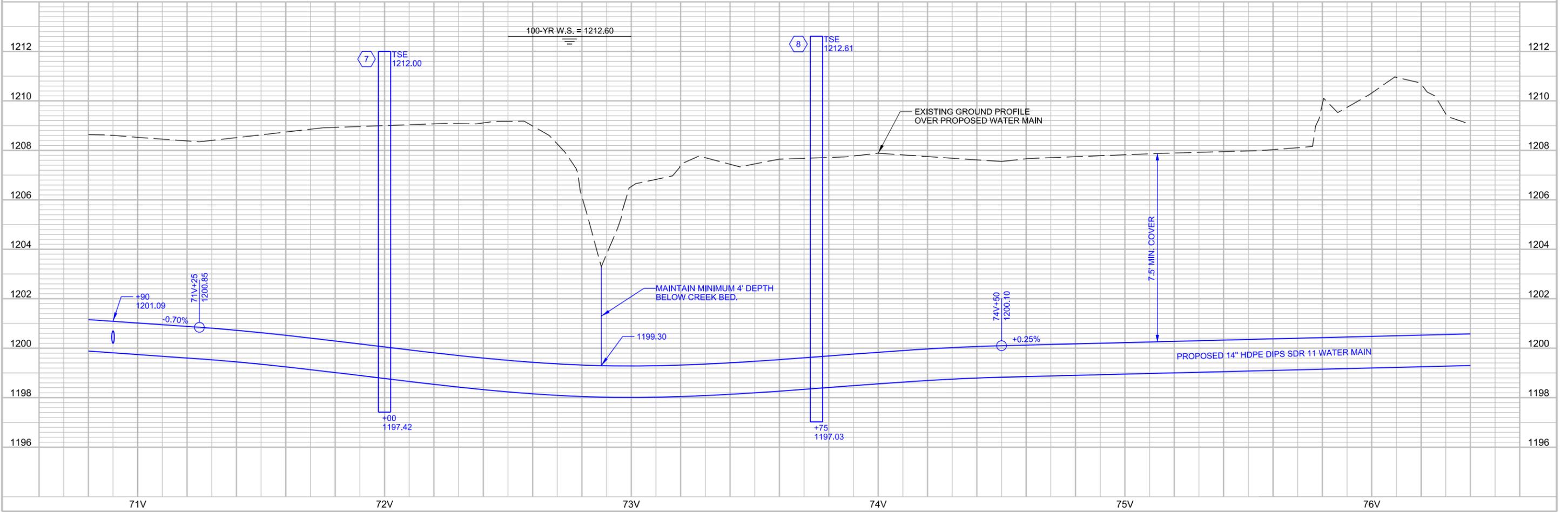
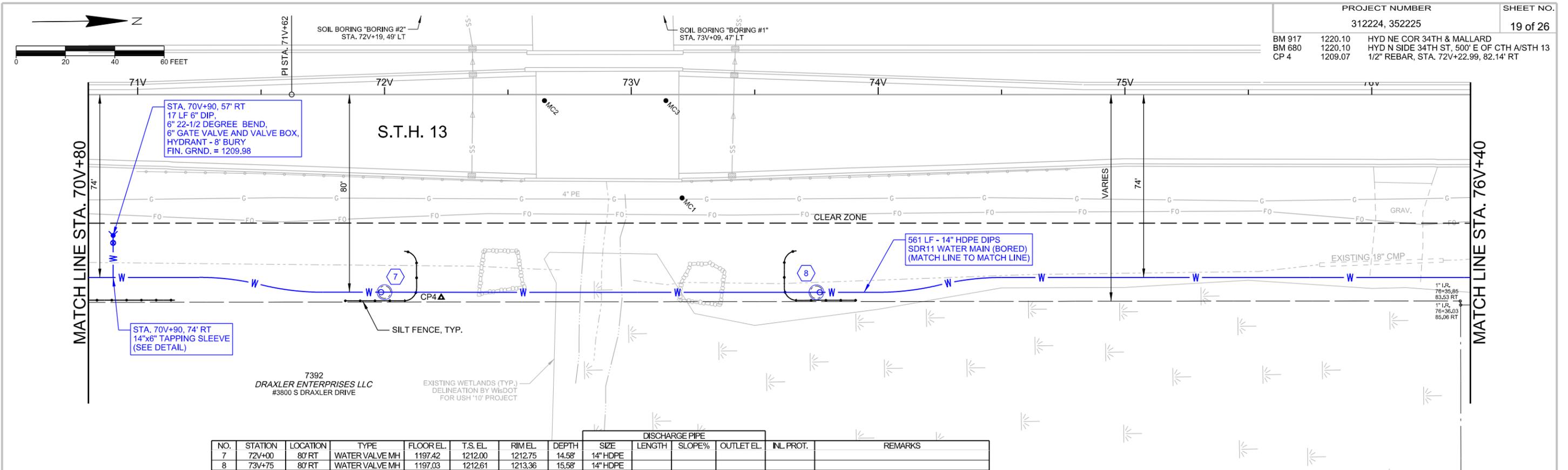
PLOTTED ON: 4/12/2016 11:48:31 AM



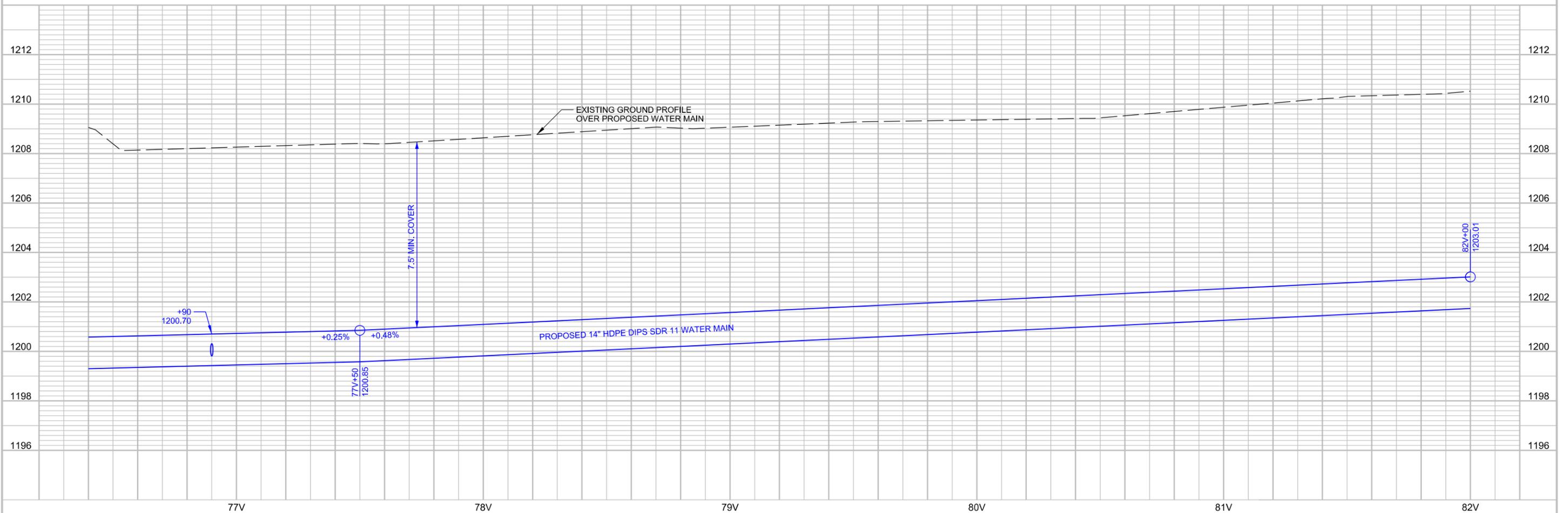
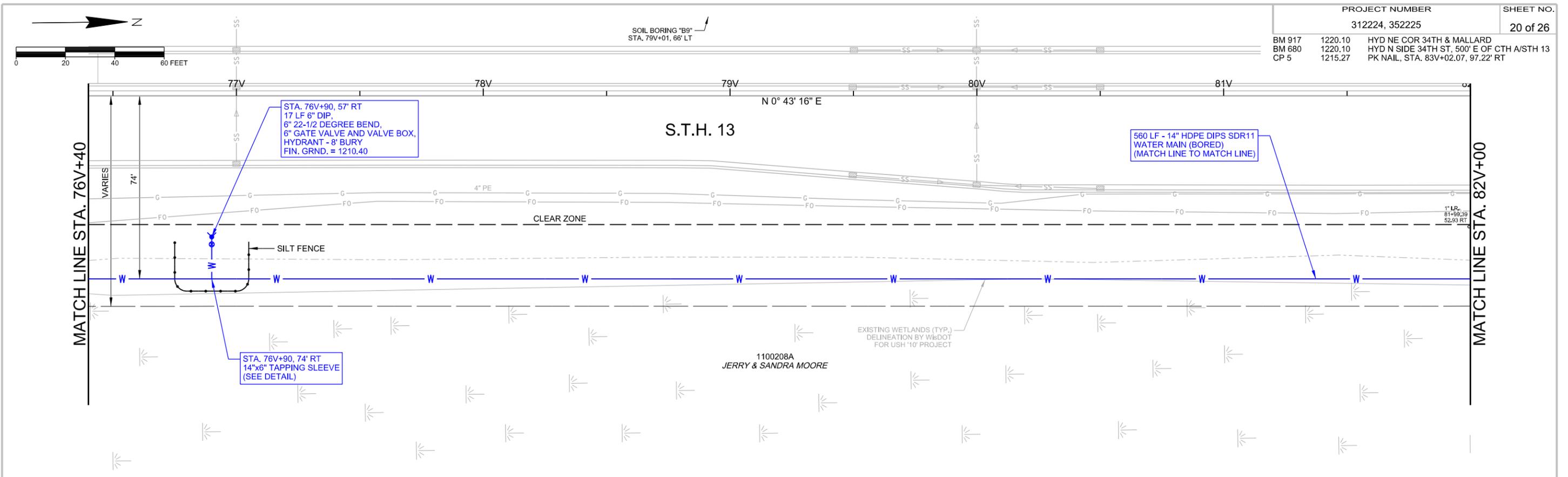
PLOTTED ON: 4/12/2016 11:48:33 AM



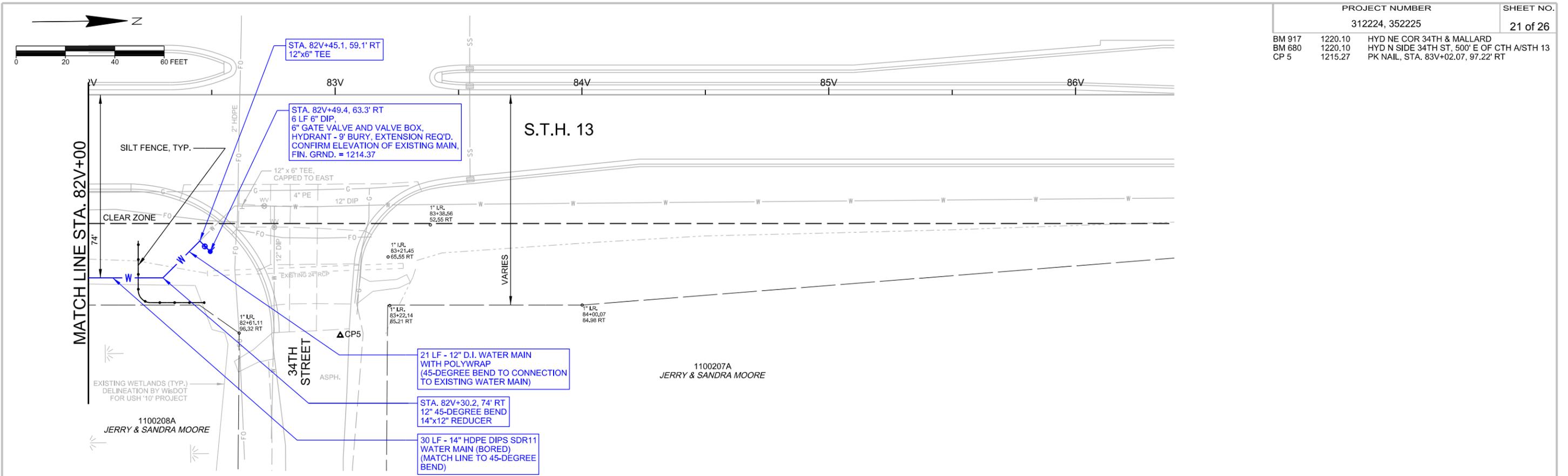
PLOTTED ON: 4/12/2016 11:48:36 AM



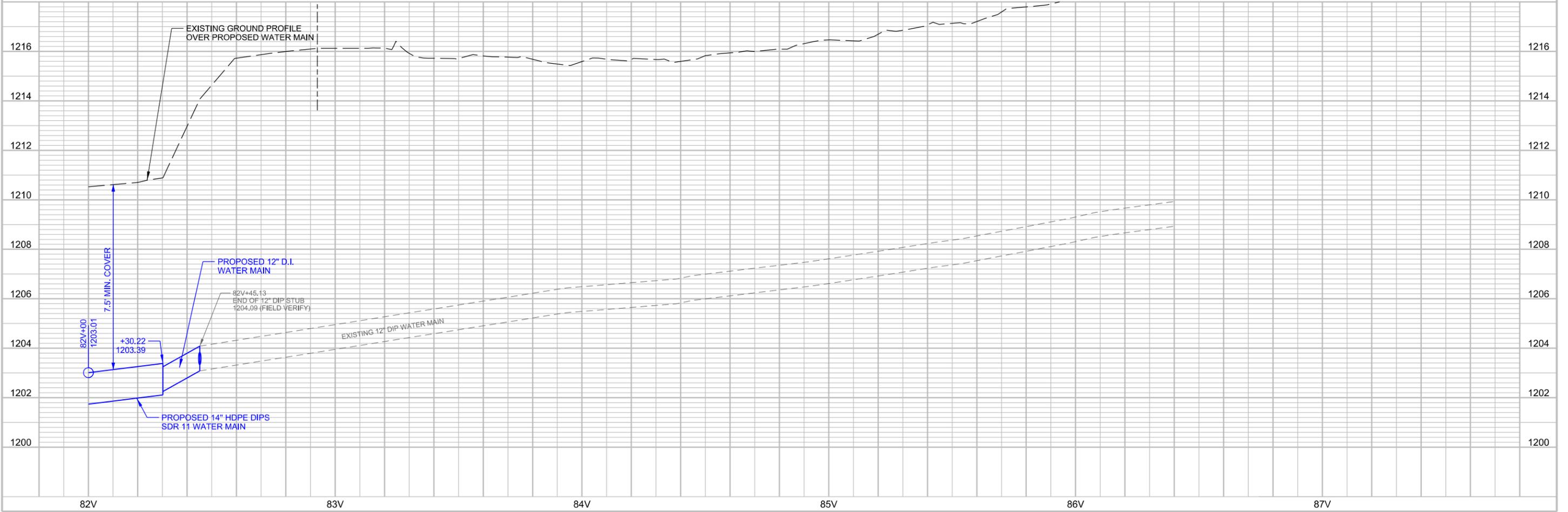
PLOTTED ON: 4/12/2016 11:45:38 AM



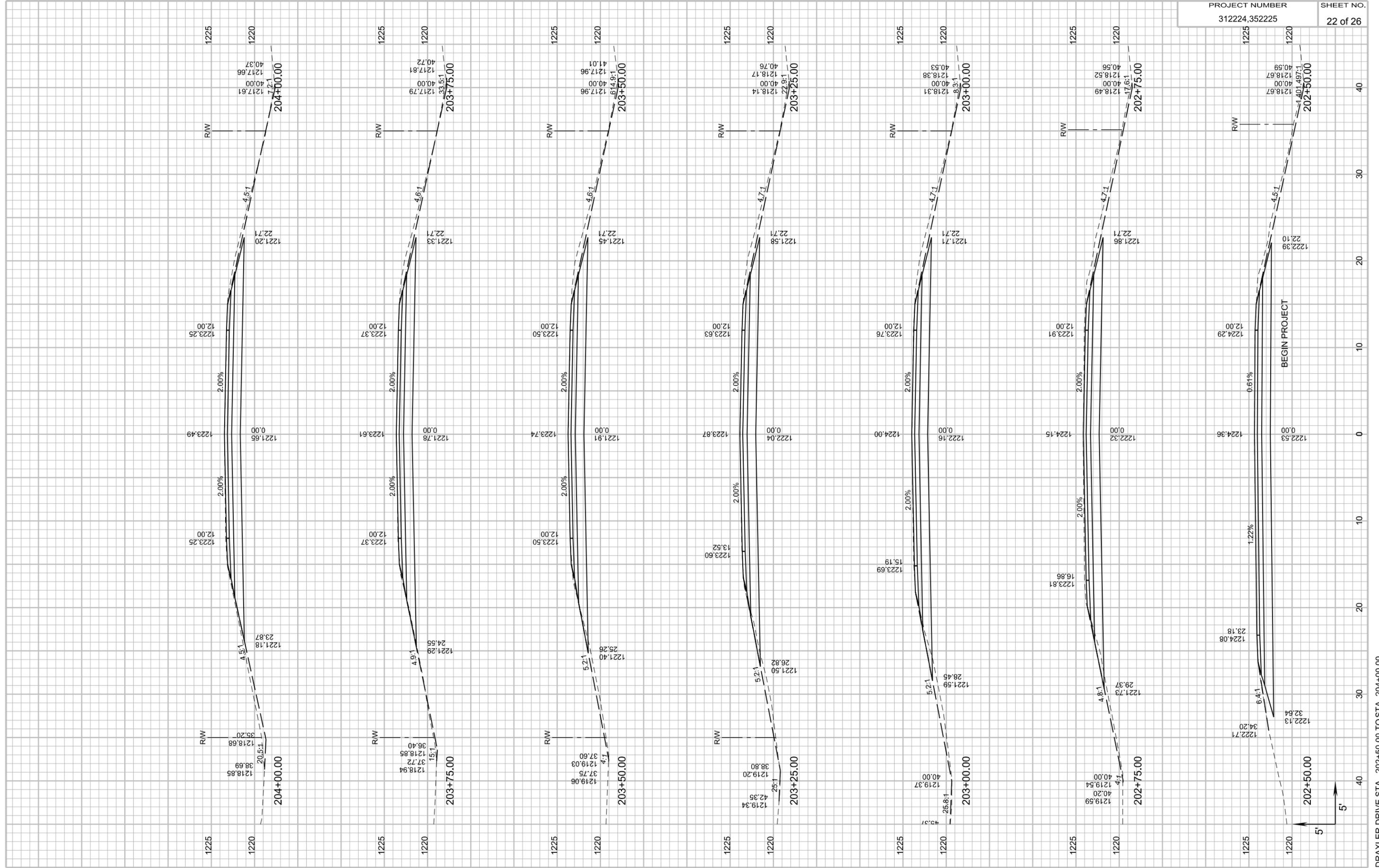
PLOTTED ON: 4/12/2016 11:48:40 AM



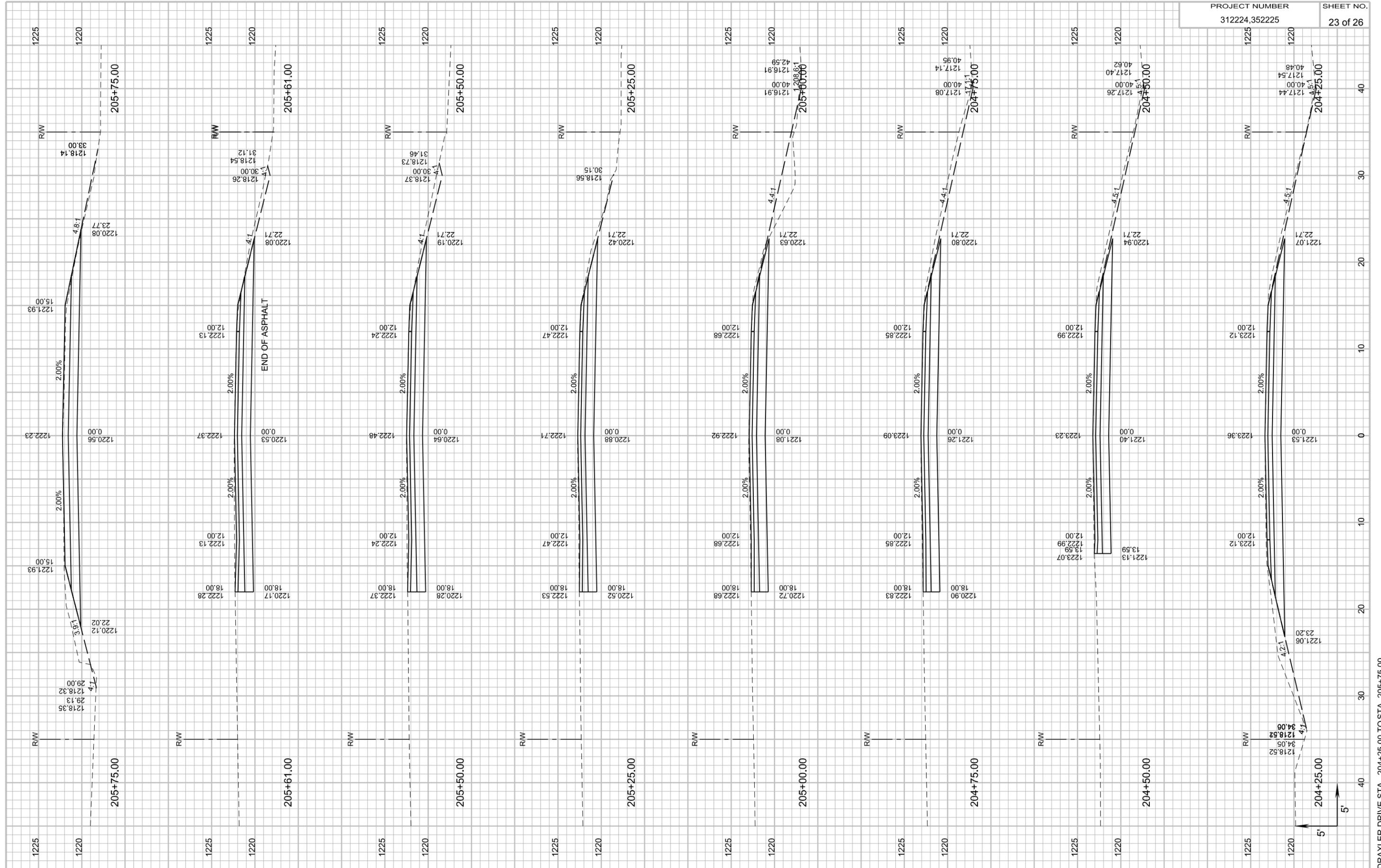
PROJECT NUMBER		SHEET NO.
312224, 352225		21 of 26
BM 917	1220.10	HYD NE COR 34TH & MALLARD
BM 680	1220.10	HYD N SIDE 34TH ST, 500' E OF CTH A/STH 13
CP 5	1215.27	PK NAIL, STA. 83V+02.07, 97.22' RT



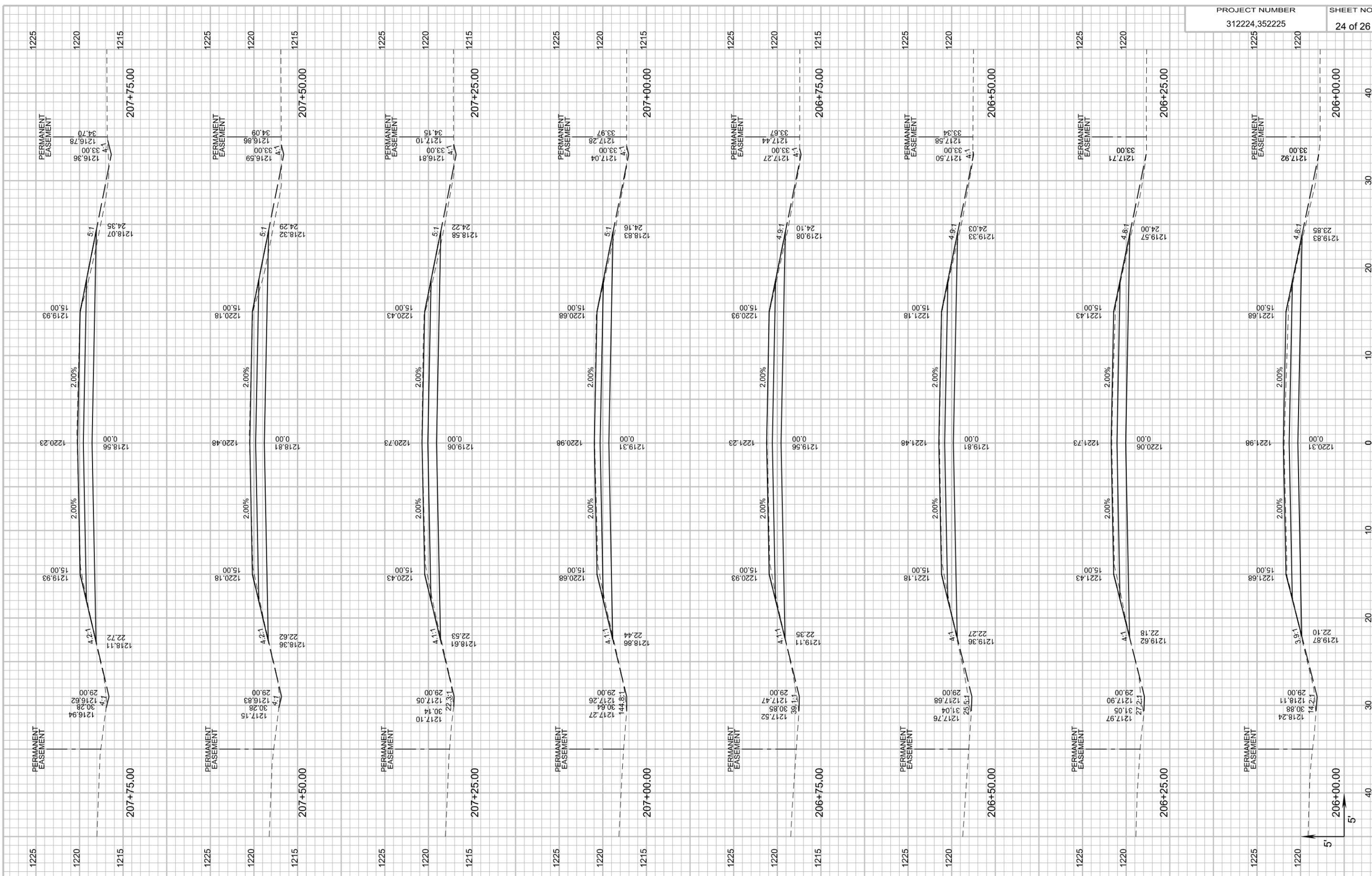
PLOTTED ON: 4/12/2016 11:48:43 AM



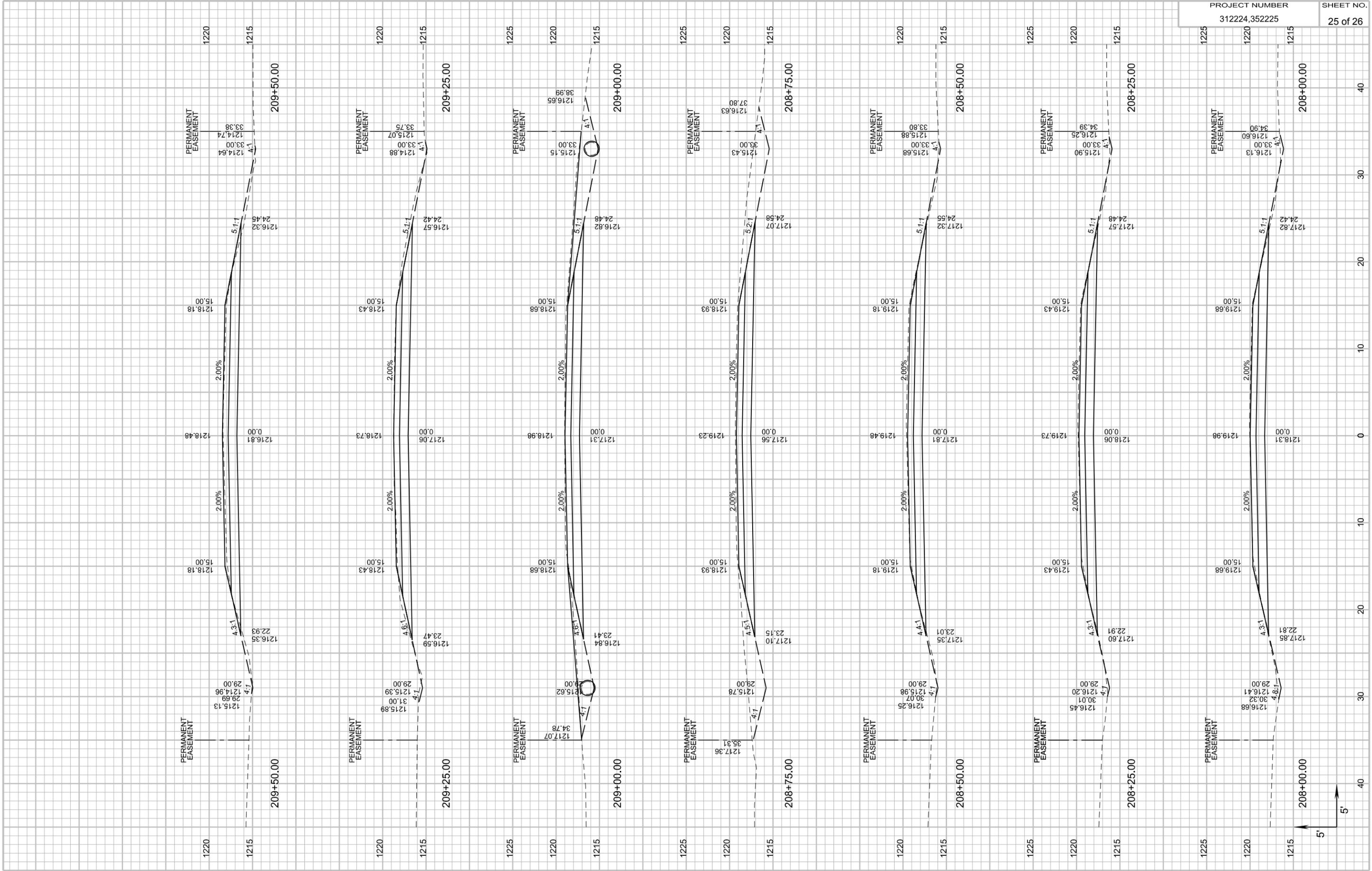
PLOTTED ON: 4/12/2016 11:48:44 AM



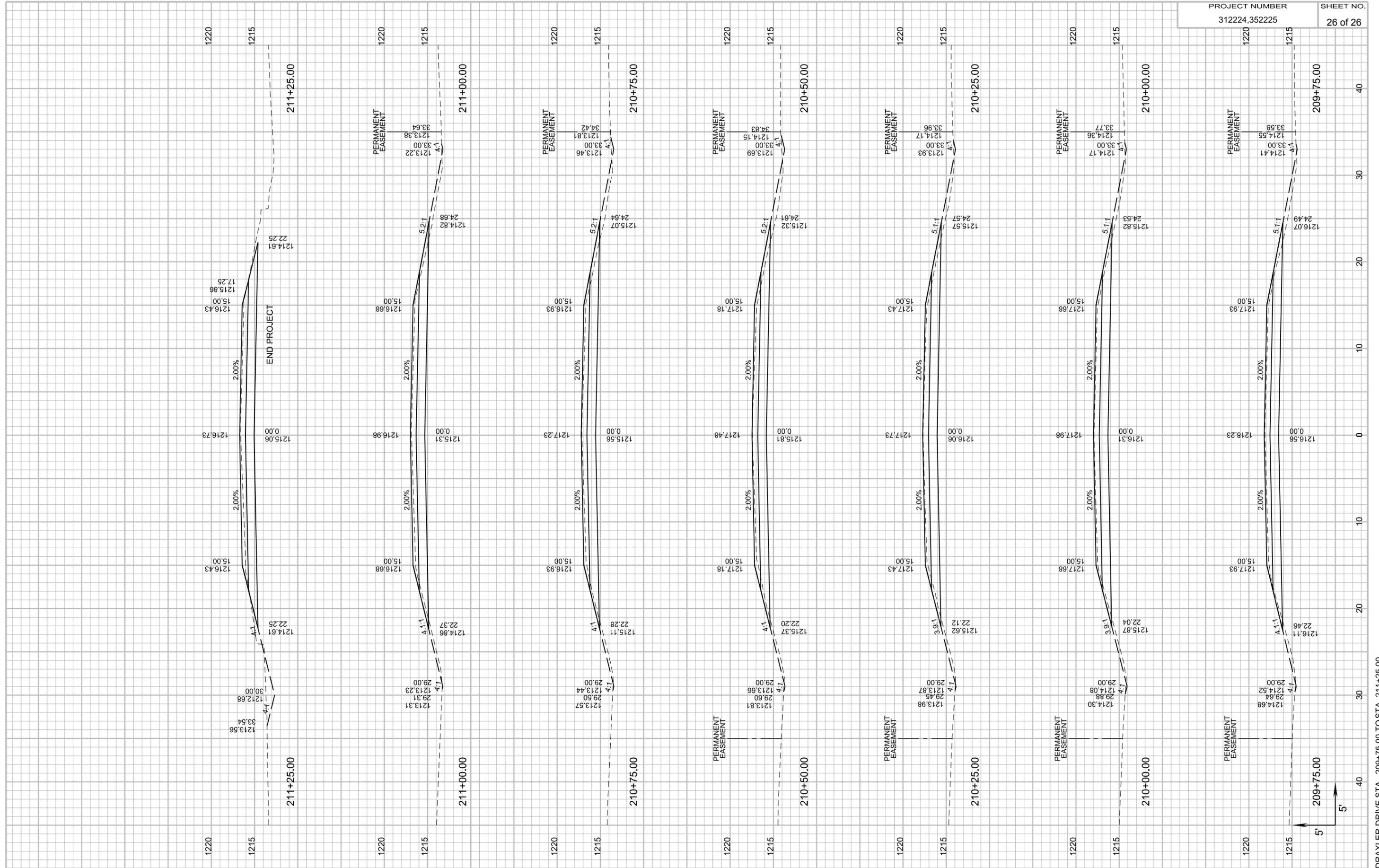
PLOTTED ON: 4/12/2016 11:48:45 AM



PLOTTED ON: 4/12/2016 11:49:46 AM



PLOTTED ON: 4/12/2016 11:48:47 AM



PLOTTED ON: 4/12/2016 11:49:48 AM