# **PROGRESS CLAUSE**

# RC/City of Owosso/C3

1 OF 1

The project shall be Ryan Street from Chipman St. to Cedar St., and Seventh Steet from Oliver St. to King Street. The Contractor shall submit at the pre-construction meeting a complete Project Progress Schedule to the City Engineer. The Progress Schedule shall include, as a minimum, the controlling work items for the completion of the project and the planned dates that these work items will be the controlling operations: all for each of the two project work sites. All Contract dates including open to traffic, project completion, holidays, and other controlling dates of the Contract must be included in the progress schedule. All specific work requirements of the 'Maintaining Traffic' Special Provision that affect the Progress Schedule shall be incorporated within the Progress Schedule.

Do not start work on Ryan Street roadway or utilities until the date approved by the Engineer, which date must be no earlier than July 8, 2019, but must start within 10 days after July 8, 2019. Do not start work on Seventh Street roadway or utilities until the date approved by the Engineer, which date must be no earlier than August 5, 2019.

The project must be completely open to traffic on or before September 20, 2019.

All Contract work must be completed in its entirety, on or before September 20, 2019 with exception for turf establishment as follows: Turf establishment must be placed by September 20, 2019, and the Contractor has until October 20, 2019 to meet specifications associated with the pay item Turf, Establishment. Failure to complete all work within these dates will result in the Contractor being assessed liquidated damages in accordance with subsection 108.10.C.1 of the MDOT 2012 Standard Specifications for Construction.

Unless specific pay items are provided in the Contract, any extra costs incurred by the Contractor due to cold-weather protection, winter grading, sufficient manpower and equipment necessary to maintain the schedule, and/or meet final completion date, and any overtime; will not be paid for separately, but will be included in payment of other contract items.

After award and prior to the start work date, the Contractor must attend a preconstruction meeting with the Engineer. The Engineer will determine the day, time and place for the preconstruction meeting. The Contractor is encouraged to contact any of its sub-contractors to attend the preconstruction meeting. The Contractor and its sub-contractors shall submit a Progress Schedule at the preconstruction meeting and be ready to discuss same at the meeting.

Failure on the Contractor's part to carry out the provisions of this Project Clause may be considered sufficient cause to prevent Contractor from bidding future projects.

# SPECIAL PROVISION FOR TECHNICAL SPECIFICATIONS

# RC/City of Owosso/C3

1 OF 1

Feb, 2019

#### General Requirement

The MDOT 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION shall govern all technical specifications for this project. The following parts of the Contract will prevail over all other parts in the following order:

- 1. Special Provisions.
- 2. Supplemental Specifications.
- 3. Project Plans and Drawings.
- 4. MDOT Standard Plans.
- 5. 2012 Standard Specifications
- 6. City of Owosso Standard Specifications.

The Contractor shall not take advantage of any apparent error or omission in the contract documents. If any uncertainty, inconsistency, omission, or conflict is discovered within the contract documents, the Engineer will solely decide as to the true intent of the language.

# NOTICE TO BIDDERS

# UTILITY COORDINATION

# City of Owosso/RC/C3 1 of 2

Feb, 2019

The Contractor shall cooperate and coordinate construction activities with the owners of utilities as stated in Section 104.08 of the Michigan Department of Transportation 2012 Standard Specifications for Construction. In addition, for the protection of underground utilities, the contractor shall follow the requirements in Section 107.12 of the Michigan Department of Transportation 2012 Standard Specifications for Construction. Contractor delay claims, resulting from a utility, will be determined based upon Section 108.09 of the Michigan Department of Transportation 2012 Standard Specifications for Construction.

For protection of underground utilities and in conformance with Public Act 53, the Contractor shall dial 1-800-482-7171 (or 811) a minimum of three full working days, excluding Saturdays, Sundays, and holidays prior to beginning each excavation in areas where public utilities have not been previously located. Members will thus be routinely notified. This does not relieve the Contractor of the responsibility of notifying utility owners who may not be a part of the "Miss Dig" alert system.

The following Public Utilities have facilities located in the road right-of-way or project area:

NAME AND ADDRESS OF OWNER	KIND OF UTI	LITY	PHONE NUMBER
Charter Communication 1480 S. Valley Center Dr Bay City, Michigan 48706	Cable Televis	-	(989) 233-9404 Mark Kelly kelly@charter.com
Frontier 1943 W. M-21 Owosso, Michigan 48867	Fiber	mar	(989) 723-0373 Mark Stevens k.stevens@ftr.com
Consumers Energy 530 West Willow Street PO Box 30162 Lansing, Michigan 48909	Gas	adam.bertran	(517) 614-8570 Adam Bertram n@cmsenergy.com
Consumers Energy 530 West Willow Street PO Box 30162 Lansing, Michigan 48906	Electric	tracy.maha	(989) 729-3250 Tracy Mahar ar@cmsenergy.com
City of Owosso 301 W. Main Street Owosso, Michigan 48867	Water	glenn.chinavar	(989) 725-0555 Glenn Chinavare e@ci.owosso.mi.us

City of Owosso 301 W. Main Street Owosso, Michigan 48867 Sanitary Sewer (989) 725-0555 Glenn Chinavare glenn.chinavare@ci.owosso.mi.us

Daystarr Communications 307 N. Ball Street Owosso, MI 48867

Owosso, Michigan 48867

City Engineer

301 W. Main Street

Fiber

(989) 720-6023 Brent Klein brent.klein@daystarrfiber.net

Road and Storm Drainage (989) 725-0550 Randy Chesney, P.E. randy.chesney@ci.owosso.mi.us

Soil Erosion and Sedimentation Control Shiawassee County Health Department Environmental Health Division 201 N. Shiwassee Street Corunna, MI 48817 Soil Erosion and (989) 743-2289 Sedimentation Control Steve Alworden salworden@shiawaseechd.net

The owners of existing service facilities that are within grading or structure limits and in conflict will move them to locations designated by the Construction Engineer or will remove them entirely from the highway Right-of-Way. Owners of Public Utilities will not be required by the City of Owosso to move additional poles or structures in order to facilitate the operation of construction equipment unless it is determined by the Construction Engineer that such poles or structures constitute a hazard to the public or are extraordinarily dangerous to the contractor's operations.

The existing utilities shown on the plans represent the best information available as obtained from survey and existing records. This information does not relieve the Contractor of the responsibility of protecting all existing utilities, in case utilities have been constructed or removed since the survey date or if utilities are encountered in different locations or if any utilities are not shown on the plans.

All existing utilities shall be located as to both horizontal and vertical position prior to starting any utility construction or other excavation. Cost shall be included in the new utility or excavation pay item.

The Contractor's attention is directed to the requirements for cooperation with others, as covered in Section 104.08 of the MDOT 2012 Standard Specification for Construction.

## UTILITY DAMAGE

The Contractor shall be responsible for the protection of all existing utilities during construction of this project. Any utilities damaged by the Contractor shall be repaired in accordance with the related utilities specifications at the Contractor's expense.

# UTILITY REPLACEMENTS

There are no utility replacements for the project.

## CITY OF OWOSSO SPECIAL PROVISION FOR MAINTAINING TRAFFIC

City of Owosso/RC/C3

Feb, 2019

**a. Description.** The project will consist of 0.38 mile of road reconstruction (Ryan St) and rehabilitation (Seventh St), including curb and gutter, sidewalk, and storm sewer, on two city streets: Ryan Street and Seventh Street, both in the City of Owosso, Shiawassee County.

**b.** General. Traffic shall be maintained in accordance with Sections 104.07C, 104.11, 812, and 922 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, including any typicals or supplemental specifications and as specified herein.

The Contractor shall coordinate their operations with other Contractors, City of Owosso forces, private utilities, and Owosso Public Schools who may also operate within the CIA, to eliminate conflicts in traffic control. No additional payment will be made to the Contractor for the joint use of traffic control items.

The Contractor shall notify the Engineer, City of Owosso (989-725-0550), Shiawassee County Central Dispatch (989-743-9111), Local Fire Department(s) (989-725-0580), and School Operations Director (989-413-5246) that service the area a minimum of three full working days prior to the implementation of any detours or road closures.

**c.** Construction Influence Area (CIA). The Construction Influence Area (CIA) shall include both right-of-ways of both Ryan Street and Seventh Street and extend a distance of 0.5 miles beyond the endpoints and include the right-of-way of all intersecting streets within the project limits for a distance of 300 feet laterally from the construction centerlines of both Ryan Street and Seventh Street.

The CIA shall also include the rights-of-way of any designated detour routes within the limits of the construction and detour signing.

**d.** Traffic Restrictions. Ryan Street shall be closed to through traffic between Chipman and Cedar Streets. Seventh Street shall be closed to through traffic between Oliver and King Streets. Through traffic shall be detoured as shown in the plans. Residents shall be allowed to access their homes on both Ryan and Seventh Streets at all times.

Reasonable access to intersecting roads/streets and residential/commercial drives shall be maintained at all times. The Contractor may temporarily close alternate drives if a business or residence has multiple drives on the same roadway, except for drives that operate directionally (i.e., one-way drives).

The Contractor shall notify the Engineer a minimum of one week prior to changing traffic flow

patterns on Ryan Street and Seventh Street.

All traffic regulators assigned to traffic control must receive all necessary instruction and training prior to starting operations.

The Contractor shall work between the hours of 7:00 a.m. and 7:00 p.m., Monday through Saturday. No work is allowed outside these time periods. The Contractor must provide a 24-hour notice for Saturday work. The Contractor shall coordinate work so that any necessary preliminary or closing operations are also done within these time periods.

No work shall be allowed during the Memorial Day or Labor Day weekends or the Fourth of July holiday period. The Memorial Day weekend shall begin on Friday, May 24, 2019 at 3:00 p.m. and continue until Tuesday, May 28, 2019 at the normal starting time. The Fourth of July holiday period shall begin on Wednesday, July 3, 2019 at 3:00 p.m. and continue until Friday, July 5, 2019 at the normal starting time. The Labor Day weekend shall begin on Friday, August 30, 2019 at 3:00 p.m. and continue until Tuesday, September 3, 2019 at the normal starting time.

The Contractor shall place maintenance gravel the same workday that the pavement is removed in all locations of the project to maintain access to adjacent properties. Any damage occurring to the subgrade from exposure to the elements will be undercut and replaced in accordance with Subgrade Undercutting, Type II, at the Contractor's expense.

The Contractor shall place aggregate base the same workday that earth is excavated in all locations of the project. Any damage occurring to the subgrade from exposure to the elements will be undercut and replaced in accordance with Subgrade Undercutting, Type II, at the Contractor's expense.

Rubbish collection is done by private contractors between the hours of 7:00 a.m. and 7:00 p.m. according to the following schedule: All residential customers north of Main Street are serviced on Thursdays. All residential customers south of Main Street are serviced on Tuesdays. Rubbish collected at commercial properties is collected any time/date. The Contractor shall schedule work to allow and provide for rubbish collectors to provide their service to the residential and commercial properties. If the rubbish collectors are unable to collect materials due to construction operations, then the Contractor shall coordinate with the rubbish collectors the moving of containers to the collection site and returning same containers to the property owner.

Current mail delivery is to doorstep of each residence. Mail delivery person will park vehicle on side-street and walk to residence to make delivery. Contractor shall conduct work so that the mail person may walk unimpeded around construction work to make mail delivery.

e. Traffic Control Devices. All signs, barricades, warning lights, and other traffic control devices shall be in accordance with the 2011 Edition of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD) and conform to MDOT Special Detail WZD-125-E.

All diamond shaped warning signs shall be 48" x 48." All temporary signs shall be mounted at a minimum seven-foot bottom height. All temporary signs used for detour, except those at Type III Barricades, shall be installed on driven posts.

Temporary signs which are to remain in place for fourteen (14) days or more shall be installed on driven posts as directed by the Engineer. All other temporary signs (excluding detour signs) may be installed on portable supports.

Ground driven sign supports for temporary signs shall be installed in accordance with MDOT Special Detail WZD-100-A.

Advance work zone signing is revised to include R5-18c (Work Zone Begins) signs. Install signs at locations shown in the plans or as directed by the engineer.

For construction signing, layout as shown on MDOT typicals minimum Merging Taper Lengths "L," distances between Traffic Control Devices "D," and length of Longitudinal Buffer Length "B" shall be in accordance with Typical Sign Sequence M0020a.

If required, for a single lane daytime closure on Oliver Street, local traffic shall be maintained utilizing traffic regulators, signing, and traffic control devices shall be placed in accordance with the Typical Sign Sequence M0140a, or as directed by the Engineer.

When traffic regulators (flaggers) are utilized, intermediate traffic regulators (flaggers) shall be established at intersecting roads, streets, and at other traffic generators as directed by the Engineer.

W20-1 "Road Work Ahead" signs shall be placed on all intersecting roads at a minimum distance shown on the plans, or as directed by the Engineer.

Signs placed at Type III barricades shall be placed above and behind the barricade on their own supports.

The speed limit through the construction zone shall be set at 25 mph.

Type C Lighted Arrow Panels (4' x 8') shall be used where lighted arrow panels are called for and located at the beginning of the taper, or as shown on the Typical Sign Sequence layouts unless physical limitations restrict its placement. The Lighted Arrow Panel shall then be located as near as possible to the beginning of the taper.

A quantity of plastic drums with high intensity sheeting has been established for lane closures and to be used adjacent to work areas.

#### f. Temporary Pavement Markings. Temporary pavement markings shall consist of:

Pavt Mrkg, Type NR, Tape, 4 inch, Yellow, Temp Pavt Mrkg, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp

Temporary Pavement Markings, Type NR, Tape, 4 inch, Yellow, Temp are to be used as temporary lane line markings on the leveling courses throughout the project length. Quantities are based on single 4' long x 4" wide marking at 50' intervals.

Temporary Pavement Markings, Wet Reflective, Type R, Tape, 4 inch, Yellow, Temp are to be used as temporary lane line marking (including tapers) on the final surface course.

Quantities are based on 4' long x 4" wide marking at 50' intervals for lane line markings.

Temporary pavement markings on the final surface course shall be Wet Reflective Type R and placed as shown in the Permanent Pavement Marking and Signing Plans.

#### g. Permanent Pavement Markings. Permanent pavement markings shall consist of:

Pavt Mrkg, Ovly Cold Plastic, 6 inch, Crosswalk Pavt Mrkg, Ovly Cold Plastic, 24 inch, Stop Bar Pavt Mrkg, Ovly Cold Plastic, School Pavt Mrkg, Waterborne, 4 inch, White for edge line markings Pavt Mrkg, Waterborne, 4 inch, Yellow for centerline markings

Final pavement markings shall be installed within 3 days of placement of the top course (weather permitting).

The contractor shall place permanent pavement markings in accordance with Section 811 of the MDOT 2012 Standard Specifications for Construction, the Pavement Marking Plans, and the most current version of the MDOT Pavement Marking Typical Plans PAVE-900-Series.

**h. Measurement and Payment.** The Maintaining Traffic Pay Items will be paid for at the Contract Unit Price in accordance with the MDOT 2012 Standard Specifications for Construction, with exception by other Special Provisions, which shall be payment in full for all labor, material, and equipment needed to accomplish this work.

Payment for temporary signs will be made based on the maximum square feet of dissimilar sign legends in use at any one time during the project.

Payment for barricades, lighted arrows, and plastic drums will be made based on the maximum number in use at any one time during the project.

# SIGN MATERIAL SELECTION TABLE

		SIGN MATERIAL T	(PE
SIGN SIZE	TYPE I	TYPE II	TYPE III
≤ 36" X 36"		Х	Х
>36" X 36"<_ 96" TO WIDE		Х	
> 96" WIDE TO 144" WIDE	Х	X	
> 144" WIDE	Х		

TYPE I TYPE II TYPE III

ALUMINUM EXTRUSION

II PLYWOOD III ALUMINUM SHEET

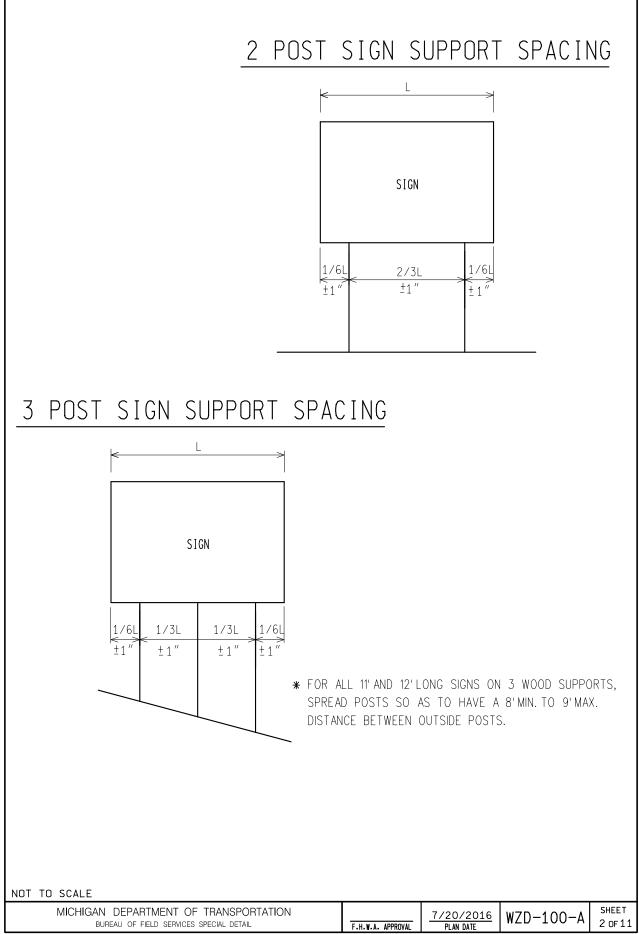
ROUNDING OF CORNERS IS NOT REQUIRED FOR TYPE IOR IISIGNS. VERTICAL JOINTS ARE NOT PERMITTED. HORIZONTIAL JOINTS THROUGH SIGN LEGEND OR SYMBOLS ARE NOT PERMITTED.

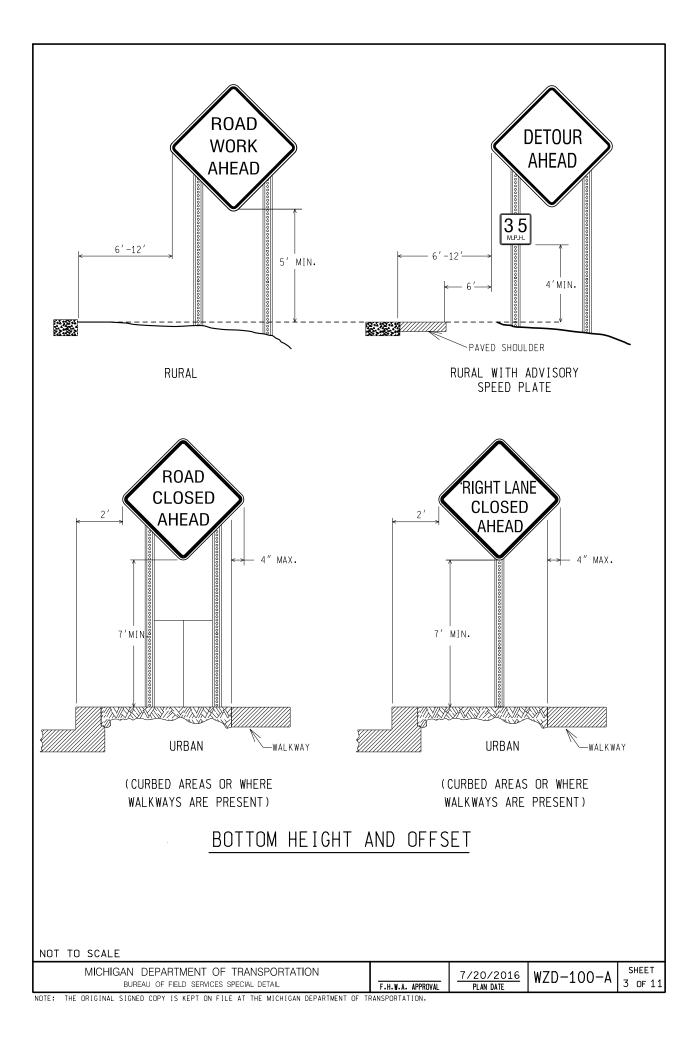
POST SIZE REQUIREMENTS TABLE

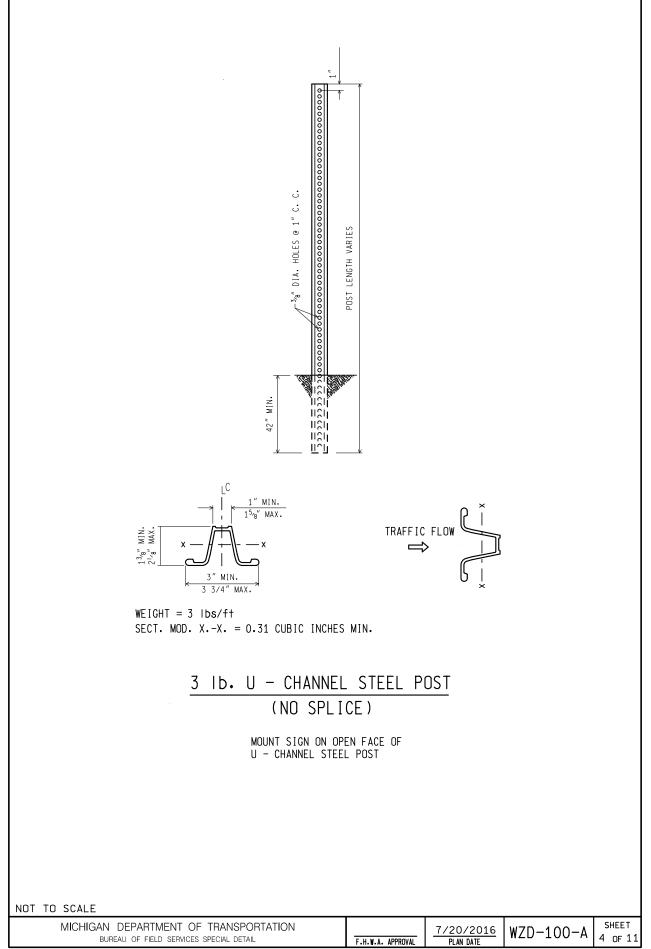
	POST TYPE		
SIGN AREA (f <sup>+2</sup> )	U-CHANNEL STEEL	SQUARE TUBULAR STEEL	WOOD
≤9	1-3 lb/ft*	1 - 2" 12 or 14 GA <sup>*</sup>	N/A
9 ≤ 20	2 - 3 lb/ft	2 - 2'' 12 or 14 GA	1-4"X6"*
> 20 ≤ 30	NZA	N/A	2 - 4" X 6"
> 30 ≤ 60	NZA	N/A	2 - 6" X 8"
> 60 ≤ 84	N/A	N/A	3 - 6" X 8"

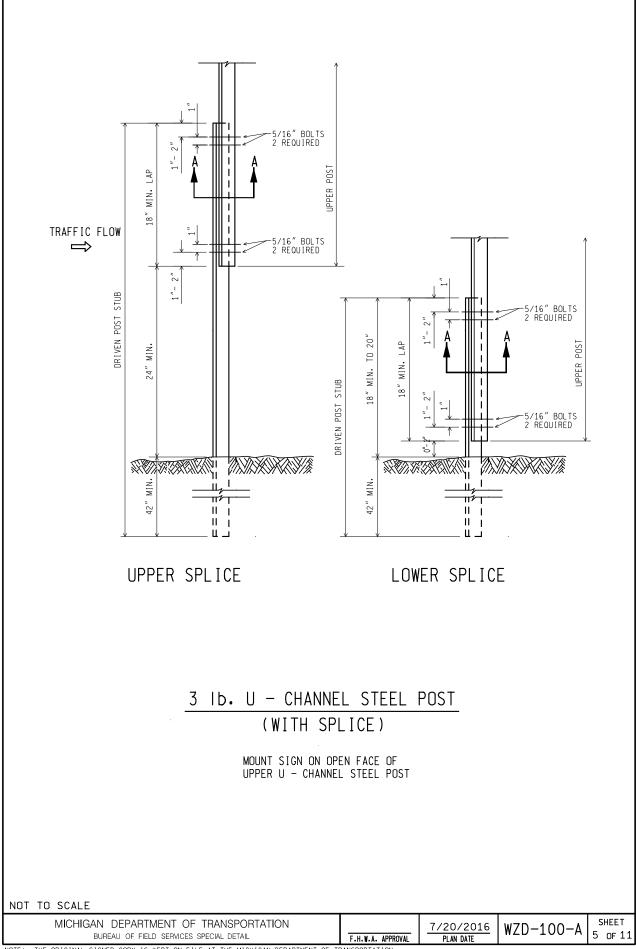
\*SIGNS 4 FEET AND GREATER IN WIDTH REQUIRE 2 POSTS. SIGNS GREATER THAN 8 FEET IN WIDTH REQUIRE 2 OR 3 WOOD POSTS DEPENDING ON AREA OF SIGN. A MAXIMUM OF 2 POSTS WITHIN A 7' PATH IS PERMITTED.

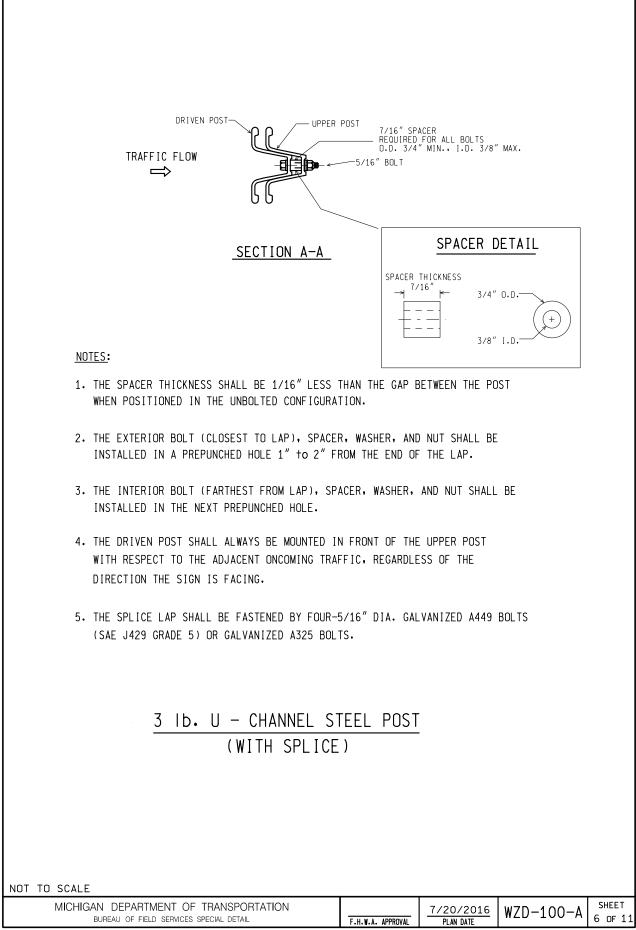
DEPARTMENT DIRECTOR MICHIGAN DEPARTMENT OF TRANSPORTATION Kirk T. Steudle BUREAU OF FIELD SERVICES SPECIAL DETAIL FOR **MDOT** GROUND DRIVEN SIGN PREPARED APPROVED BY: \_ BY OPERATIONS FIELD SERVICES DIRECTOR, BUREAU OF FIELD SERVICES SUPPORTS FOR TEMP SIGNS DRAWN BY: CON/ECH SHEET 7/20/2016 APPROVED BY: WZD-100-A 1 OF 11 CHECKED BY: AUG F.H.W.A. APPROVAL DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT PLAN DATE

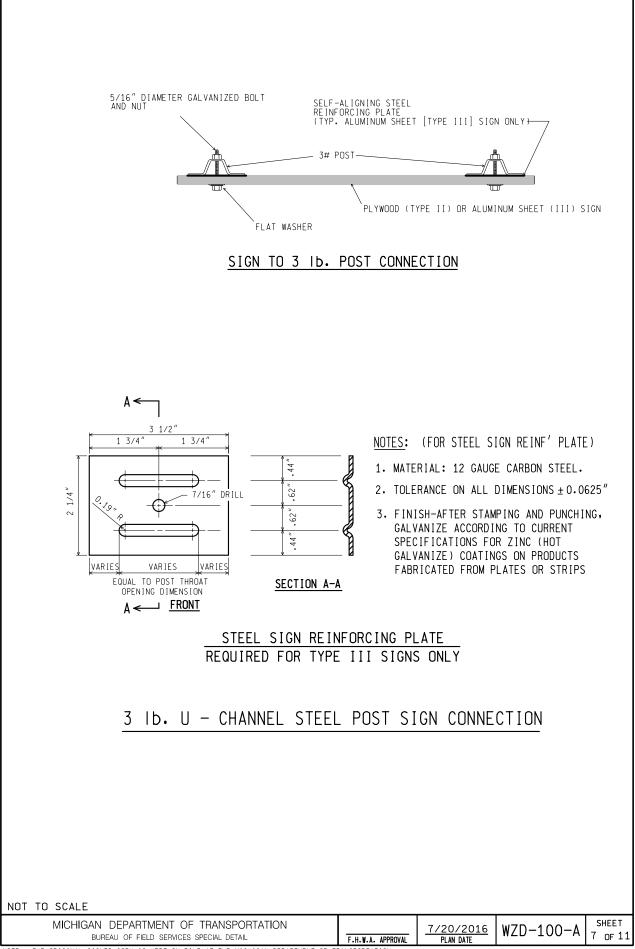


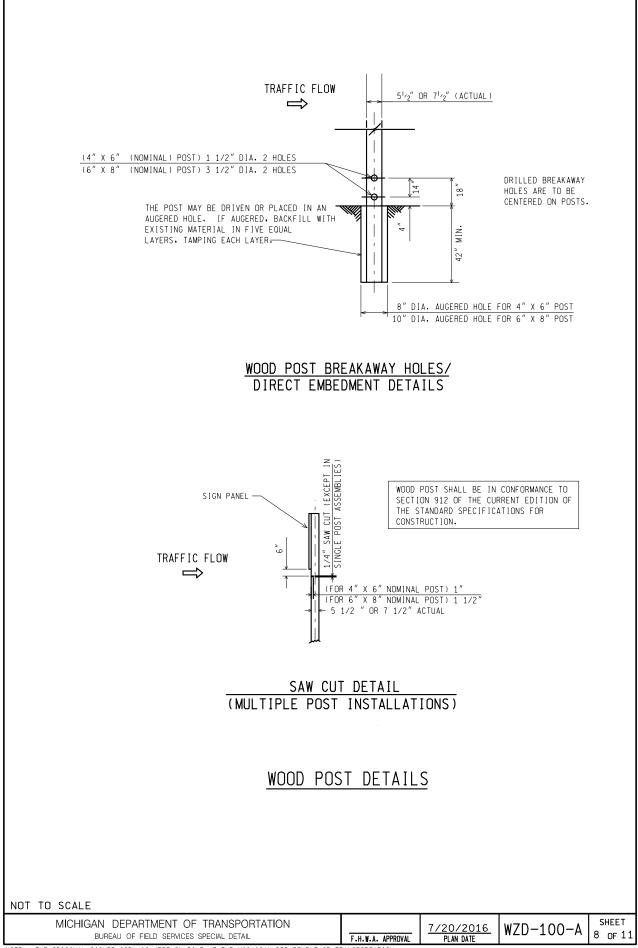


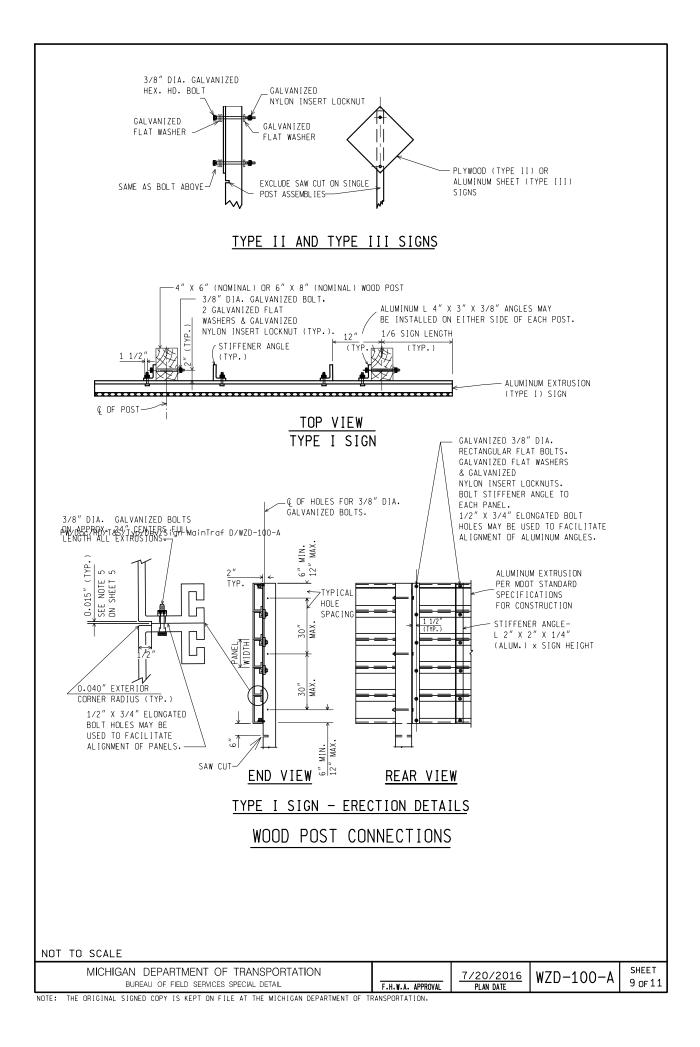


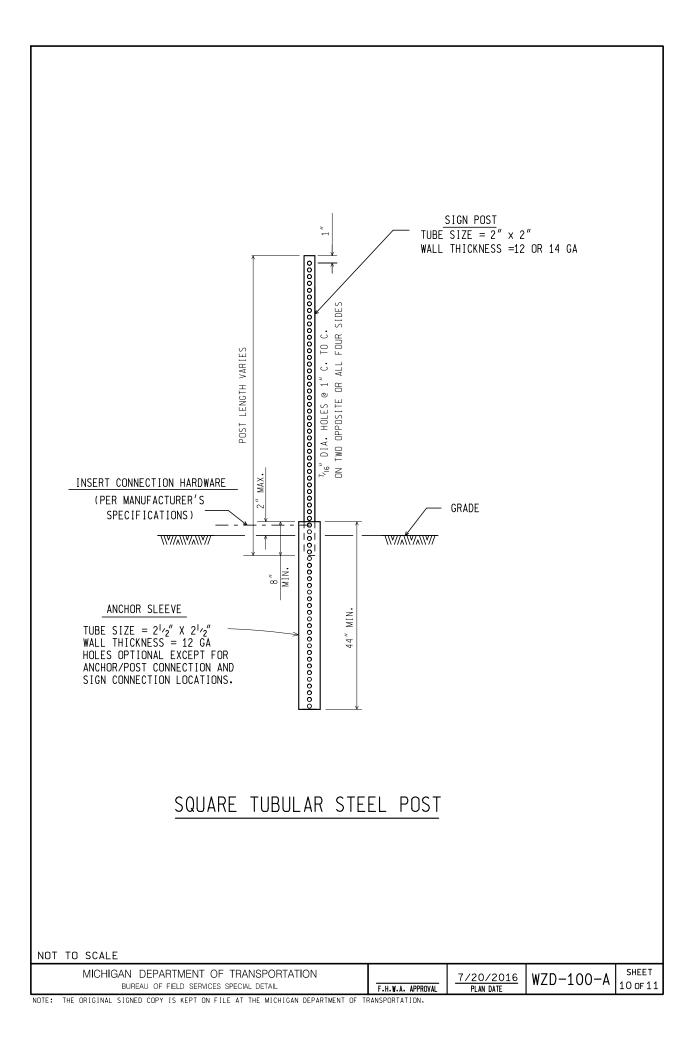








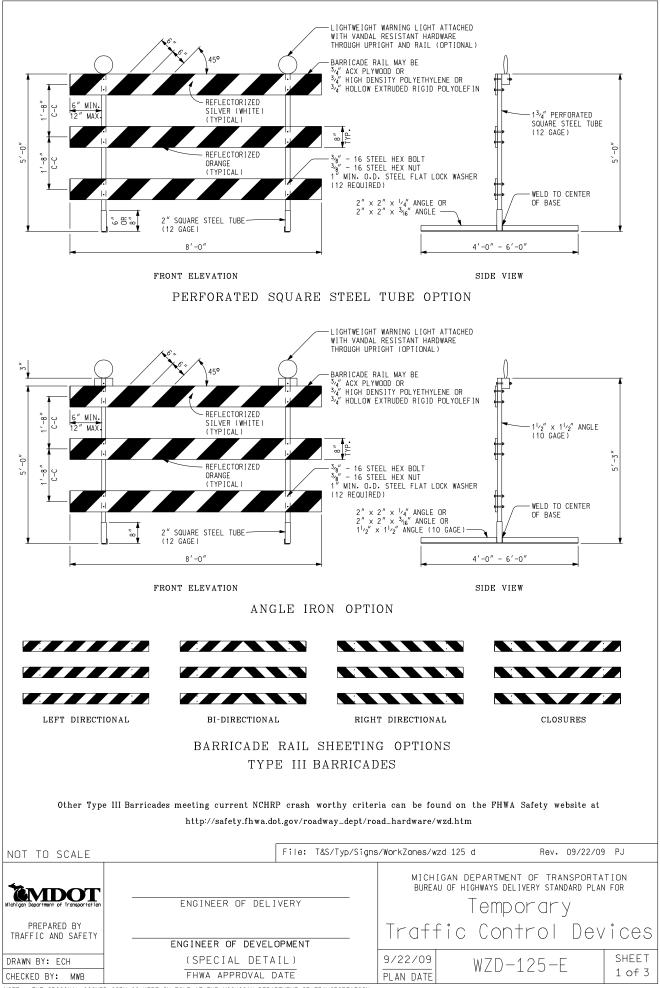


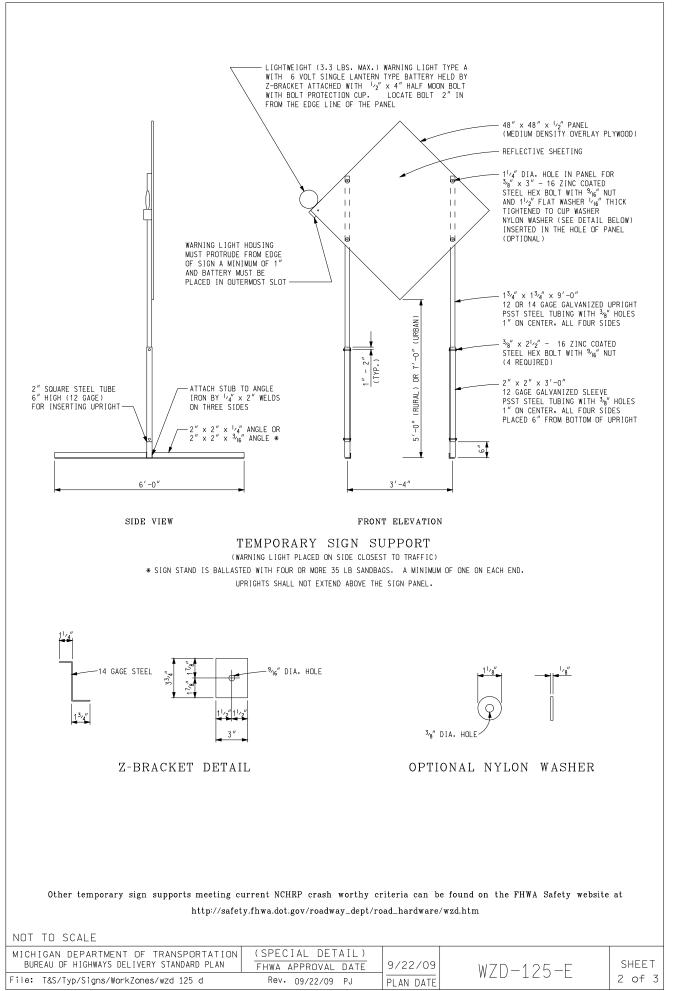


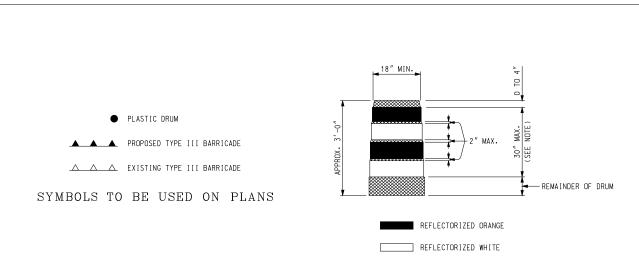
GENERAL NOTES:

- 1. A MAXIMUM OF TWO POSTS WITHIN A 7 FOOT PATH IS PERMITTED.
- 2. ALL SIGN POSTS SHALL COMPLY WITH NCHRP 350.
- 3. ALL POSTS SHALL BE EMBEDDED A MINIMUM OF 42".
- 4. BRACING OF POST IS NOT PERMITTED.
- 5. SIGN SHALL BE LEVEL, AND UPRIGHT FOR THE DURATION OF INSTALLATION.
- 6. ERECT POSTS SO THE SIGN FACE AND SUPPORTS DO NOT VARY FROM PLUMB BY MORE THAN 3/16" IN 3'. PROVIDE A CENTER-TO-CENTER DISTANCE BETWEEN POSTS WITHIN 2 PERCENT OF PLAN DISTANCE.
- 7. NO MORE THAN ONE SPLICE PER POST, AS SHOWN, WILL BE PERMITTED.
- 8. POST TYPES SHALL NOT BE MIXED WITHIN A SIGN SUPPORT INSTALLATION.
- 9. NO VERTICAL JOINTS ARE PERMITTED IN SIGN. NO HORIZONTIAL JOINTS THROUGH SIGN LEGEND OR SYMBOLS ARE PERMITTED IN SIGN
- 10. REMOVE SIGN POSTS AND/OR POST STUBS IN THEIR ENTIRETY WHEN NO LONGER REQUIRED.
- 11. ALL LABOR, MATERIALS, AND EQUIPMENT, INCLUDING TEMPORARY SUPPORTS REQUIRED TO INSTALL, MAINTAIN, RELOCATE, AND/OR REMOVE THE TEMPORARY SIGN, INCLUDING SUPPORTS, ARE CONSIDERED TO BE INCLUDED IN THE COST OF THE TEMPORARY SIGN.
- 12. SAW CUTS IN WOOD POSTS ARE TO BE PARALLEL TO THE BOTTOM OF THE SIGN.
- 13. POSTS SHALL NOT EXTEND MORE THAN 4" ABOVE TOP OF SIGN.
- 14. TEMPORARY WOOD SUPPORTS DO NOT REQUIRE PRESERVATIVE TREATMENT.

NOT TO SCALE				
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF FIELD SERVICES SPECIAL DETAIL	F.H.W.A. APPROVAL	7/20/2016 Plan date	WZD-100-A	SHEET 11 OF 11







NON REFLECTORIZED ORANGE

NOTE:

NULE: DRUMS SHALL HAVE AT LEAST 4 HORIZONTAL REFLECTORIZED STRIPES (2 ORANGE AND 2 WHITE) OF 6" UNIFORM WIDTH, ALTERNATING IN COLOR WITH THE TOPMOST REFLECTORIZED STRIPE BEING ORANGE. NON REFLECTORIZED SPACES BETWEEN THE HORIZONTAL REFLECTORIZED ORANGE AND WHITE STRIPES SHALL BE ORANGE IN COLOR AND EQUAL IN WIDTH.

PLASTIC DRUM

NOTES:

 $2\,^{\prime\prime}$  perforated sourre steel tubes may be used to fabricate the horizontal base of the type III baricade.

WARNING LIGHTS SHALL BE PLACED ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND ALL OTHER PROVISIONS IN THE CONTRACT WHEN THEY ARE USED ON TYPE III BARRICADES.

SEE ROAD STANDARD PLANS R-113-SERIES FOR TEMPORARY CROSSOVERS FOR DIVIDED ROADWAY, AND R-126-SERIES FOR TYPICAL LOCATION AND SPACING OF PLASTIC DRUMS FOR PLACEMENT OF TEMORARY CONCRETE BARRIER.

SIGNS. BARRICADES, AND PLASTIC DRUMS SHALL BE FACED WITH PRESSURE-SENSITIVE REFLECTIVE SHEETING ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

SANDBAGS SHALL BE USED WHEN SUPPLEMENTAL WEIGHTS ARE REQUIRED TO ACHIEVE STABILITY OF THE BARRICADE. THE SANDBAGS SHALL BE PLACED SO THEY WILL NOT COVER OR OBSTRUCT ANY REFLECTIVE PORTION OF THE TRAFFIC CONTROL DEVICE.

NOT TO SCALE				
MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS DELIVERY STANDARD PLAN	(SPECIAL DETAIL) Fhwa approval date	9/22/09	W7D-125-F	SHEET
File: T&S/Typ/Signs/WorkZones/wzd 125 d	Rev. 09/22/09 PJ	PLAN DATE		3of 3

#### SPECIAL PROVISION FOR ABANDONED GAS MAIN, CONFLICT

1 OF 1

#### City of Owosso/RC/C3

Feb, 2019

### <u>General</u>

The work of Abandoned Gas Main, Conflict shall be performed in accordance with Sections 402 and 702 of the MDOT 2012 Standard Specifications for Construction.

#### Description

The work of Abandoned Gas Main, Conflict consists of removing abandoned gas main, of various size and material, that <u>directly conflicts</u> with proposed storm sewer installation and bulk heading the two exposed ends, as shown on the plans or as directed by the Engineer. The Engineer will determine whether a conflict exists and advise the Contractor in advance of any work.

#### **Materials**

The materials for bulk heading shall include mortar, geotextile wrap, and tape for attachment. Mortar mix shall be Type H-1 non-shrinking mortar and grout mixture.

#### **Construction**

The Contractor shall expose the existing pipe crossing in advance of proposed construction and confirm with the utility that the pipe is abandoned. The Contractor shall inform the Engineer of the conflict in advance of any work. After agreement is reached, then the Contractor shall remove that portion of conflicting abandoned pipe across the trench influence area and seal each exposed remaining ends with bulk heads. The bulk heads shall be constructed such that prepared mortar mix shall be extended at least one foot into the pipe, then wrapped with geotextile material same as used for the road, and secured in place with tape.

#### Measurement and Payment

The completed as measured for Abandoned Gas Main, Conflict will be paid for at the Contract Unit Price for the following Contract Item (Pay Item):

## **Contract Item (Pay Item)**

#### Pay Unit

Each

Abandoned Gas Main, Conflict

Abandoned Gas Main, Conflict will be measured in place by the unit Each; and will be paid for at the contract unit price per Each, which price shall be payment in full for all labor, material, and equipment needed to accomplish this work.

# CITY OF OWOSSO SPECIAL PROVISION FOR SIDEWALK RAMP AND DETECTABLE WARNING SURFACE, MODIFIED

#### City of Owosso/RC/C3 1 OF 1

Feb, 2019

## **Description**

This work shall consist of constructing sidewalk ramps and detectable warning surfaces. Complete this work according to the standard specifications, Standard Plan R-28 Series and this special provision.

## **Materials**

The materials shall meet the requirements of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, Section 803, for concrete sidewalk except detectable warning systems shall be DuralastTM as manufactured by East Jordan Group, Inc. The detectable warning systems shall be powder coated red.

#### **Construction**

Construct sidewalk ramp according to Section 803 of the MDOT Standard Specifications for Construction and Standard Plan R-28 Series.

#### Measurement and Payment

The completed work, as described, will be measured and paid for at the contract unit price using the following contract item (pay item):

Contract Item (Pay Item)	Pay Unit
Sidewalk Ramp, Conc, 7 Inch	Square Foot
Detectable Warning Surface, Modified	Foot

**Sidewalk Ramp, Conc., 7 Inch** will be measured in place by area per square foot and paid for per square foot.

**Detectable Warning Surface, Modified** will be measured in place by length per foot along the center of the 24 inch wide detectable warning material at specified locations and paid for per foot. Payment includes all labor, materials, and equipment to install detectable warning surface.

# CITY OF OWOSSO SPECIAL PROVISION FOR AGGREGATE BASE, \_ INCH, MODIFIED

City of Owosso/RC/C3

1 of 1

Feb, 2019

**a. Description.** This work shall consist of placing and compacting an aggregate base course on a prepared subbase.

**b.** Materials. The material shall meet the gradation requirements of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, Section 902, for 21AA aggregate, except all material shall be 100% crushed limestone.

**c.** Construction Methods. The material shall be placed and compacted in accordance with the MDOT 2012 Standard Specifications for Construction, Section 302.03.

**d. Measurement and Payment.** The completed work, Aggregate Base, \_ inch, Modified including all materials, labor, and equipment, as measured will be paid for at the Contract Unit Price for the following Contract Item (Pay Item).

# Contract Item (Pay Item) Pay Unit

Aggregate Base, \_ inch, Modified ......Square Yard

Aggregate Base, \_ inch, Modified will be measured in place by the square yard.

The maximum pay width will be as shown on the plans.

SPECIAL PROVISION FOR CONCRETE PAY ITEMS

# City of Owosso/RC/C3

1 OF 1

Feb, 2019

#### Description

This work shall be done in accordance with sections 601 and 701 of the MDOT 2012 Standard Specifications for Construction, except as modified herein. This special provision indicates the type of concrete mixture to be used for pay items related to curb and gutter, drive approaches, and sidewalks.

## **Materials**

Cement content for Concrete, Grades S2 and P1, shall be 564 pounds per cubic yard (6 Sack) for all concrete items, in accordance with Sections 601 and 701 of the MDOT 2012 Standard Specifications for Construction. Concrete mix shall not include fly ash or water reducing agents.

## **Construction**

Construction of concrete related items including but not limited to curb and gutter, driveways, sidewalks, ADA ramps shall be done in accordance with the MDOT 2012 Standard Specifications for Construction, or as directed by the Engineer.

#### **Measurement and Payment**

Payment for the completed work for the various concrete pay items in this contract using a six full sack mix shall be included as part of their individual unit prices.

# SPECIAL PROVISION FOR DRAINAGE STRUCTURE COVER EJ

# City of Owosso

# 1 OF 1

Feb, 2019

# **General Description**

Drainage Structure Cover EJ \_\_\_\_\_, shall consist of materials and work meeting requirements of Section 403 of the MDOT 2012 Standard Specifications for Construction, and as modified herein.

# **Cover Description**

All covers will be manufactured and supplied by East Jordan Iron Works. Cover types shall match with the pay item cover number.

# Measurement and Payment

The completed work as measured for Drainage Structure Cover EJ \_\_\_\_ will be paid for at the Contract Unit Price for the following Contract Item (Pay Item):

Contract Item (Pay Item)	Pay Unit
Drainage Structure Cover EJ 1030	Each
Drainage Structure Cover EJ 1060	Each
Drainage Structure Cover EJ 1020 W/Gasket Seal	Each
Drainage Structure Cover EJ 7000	Each

Drainage Structure Cover EJ \_\_\_\_\_will be measured in place by count of Each; and will be paid for at the contract unit price per Each, which price shall be payment in full for all labor, material, and equipment needed to accomplish this work.

# CITY OF OWOSSO SPECIAL PROVISION FOR DR STRUCTURE, MODIFIED

City of Owosso/RC/C3

1 of 2

Feb, 2019

**a. Description.** The Contractor shall construct **Dr Structure**, \_\_\_\_ **inch dia, Modified** of the size and at the locations as shown on the plans or as directed by the Engineer. Work shall in accordance with Section 403 & 913 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, or as modified herein.

**b.** Materials. Drainage Structures shall be precast reinforced concrete units manufactured to American Society for Testing Materials (ASTM) C-478 specifications and Section 913 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, with either a cast in place bottom or precast concrete base as detailed on the plans.

The Contractor shall place the drainage structure cover as shown on the plans or as directed by the Engineer.

Provide 4"-12" adjustment area (chimney) above the structure's cone.

Masonry structures <u>will</u> not be allowed to be used on this project, <u>unless</u> approved by the Engineer for special circumstances, or where specifically called for on the Plans.

Thirty-six inch diameter drainage structures (catch basins or inlets) will be allowed to be used on this project, where called for on the plans or where directed by the Engineer.

The Contractor shall provide flexible connectors meeting ASTM C-923 requirements and 'as manufactured' by:

1. Trelleborg - Kor-N-Seal 106-406 and 206 series.

**c.** Measurement and Payment. The completed work as measured for Dr Structure, \_\_\_\_\_ inch dia, Modified will be paid for at the contract unit price for the following contract item (pay item).

#### **Contract Item (Pay Item)**

#### Pay Unit

Dr Structure, \_\_ inch dia, Modified......Each

The work of **Dr Structure**, \_\_\_\_ inch dia, Modified includes the concrete footing, and up to 8' of drainage structure depth. The unit price for **Dr Structure**, \_\_\_\_ inch dia, Modified incudes the cost of temporary or final grade adjustments of the structure. **Dr Structure**, \_\_\_\_ inch dia, Modified will be measured by the unit each and will be paid for at the contract unit price per each, which price shall be payment in full for all labor, material, and equipment necessary to accomplish this work.

If during construction, due to utility conflicts or plan revisions, modifications are required to the piping connection holes or additional taps are required to precast concrete sections, this work will be paid for separately, in the Pay Item for the **Dr Structure, Tap,** <u>\_\_\_</u> **inch**.

## SPECIAL PROVISION FOR SANITARY SERVICE, CONFLICT

# City of Owosso/RC/C3 1 OF 1

Feb, 2019

### **Description**

The work of Sanitary Service, Conflict consists of relocating (lowering) existing sanitary service connections that conflict with proposed storm sewer installation as shown on the plans or as directed by the Engineer. The work must be coordinated with City of Owosso DPW officials.

## **Materials**

The materials for relocating existing sanitary sewer service connections shall consist of new material meeting the requirements of the City of Owosso. City DPW officials will review with the Contractor the type of material found, then determine suitable new material and adaptors required to reconnect the sanitary service.

#### **Construction**

The City of Owosso will be responsible for temporarily shutting off the wastewater system. The Contractor shall cooperate with City of Owosso DPW officials in establishing service relocation, material selection, and work method in order to reroute the sanitary service under the proposed storm sewer. The entire crossing area shall be filled with 6A compacted crushed stone, from bottom of pipe to one foot above top of pipe. A geotextile separator shall be laid on top the stone backfill. Granular Material, Class II shall be placed and compacted from the geotextile separator to plan grade.

#### **Measurement and Payment**

The completed as measured for Sanitary Service, Conflict will be paid for at the Contract Unit Price for the following Contract Item (Pay Item):

# Contract Item (Pay Item)

Pay Unit

Sanitary Service, Conflict

# Each

Sanitary Service, Conflict will be measured in place by the unit Each; and will be paid for at the contract unit price per Each, which price shall be payment in full for all labor, material, and equipment needed to accomplish this work.

# CITY OF OWOSSO SPECIAL PROVISION FOR SEWER SDR-26

#### City of Owosso/RC/C3 1 of 1

**a. Description.** The work of Sewer, SDR-26, \_ inch, Tr Det \_- Modified, shall consist of excavation, furnishing and placing plastic sewer pipe, and trench backfill, in accordance with section 402 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, Michigan Department of Transportation Standard Plan R-83 series and the details within the construction plans, except as modified herein.

**b. Materials**. Materials for sewer pipe shall meet or exceed ASTM D-3034 SDR-26 or ASTM D-2241 SDR-26 specifications for PVC integral gasket sewer pipe, depending on pipe diameter. Material for backfill shall be in accordance with the details within the standard plan R-83 series.

**c. Construction**. The extensions/connections to existing culverts/sewers on this project will require a FERNCO couplerextra work to obtain a tight seal at the joint connecting new pipe to existing pipe. The joint between the existing and new pipes shall be constructed according to the 2012 MDOT Standard Specifications for Construction and as directed by the Engineer. Any extra work required to obtain tight joints will not be paid for separately but will be included in compensation for new pipe.

**d. Measurement and Payment**. The completed work as measured for Sewer, SDR-26, \_ inch, Tr Det \_- Modified will be paid for at the contract unit price for the following contract item (pay item).

#### Contract Item (Pay Item)

#### Pay Unit

Sewer, SDR-26, \_ inch, Tr Det \_- Modified ......Foot

Sewer, SDR-26, \_ inch, Tr Det \_- Modified will be measured in place by length in feet and will be paid for at the contract unit price per foot which price shall be payment in full for any Fernco fittings, connecting to existing sewers, neoprene gaskets, couplers, sheeting or shoring trench walls, backfill as required and all labor, material and equipment needed to accomplish this work.

Should the City of Owosso allow ADS HP storm sewer as approved alternate PVC pipe material for storm sewer, then the material shall meet manufacturer specifications as to material. Trench detail shall be same as SDR-26. Pipe shall also be mandrel tested after installation in accordance with manufacturer standards. Acceptance of pipe material shall be based upon successful mandrel testing.

# SPECIAL PROVISION FOR SEWER, ABANDON IN PLACE

#### City of Owosso/CW

#### 1 OF 2

Feb, 2019

**a. Description.** Sewer, Abandon in Place shall consist of materials and work meeting requirements of Section 203 of the MDOT 2012 Standard Specifications for Construction, and as modified herein.

**b. Materials.** Sewer pipes to be abandoned shall be filled with self-compacting and self-leveling flowable fill. Flowable fill will consist of a mixture of Portland cement, granular material (fine aggregate), fly ash, and water.

Portland cement will be either Type I or IA and will conform to Section 901 of the Standard Specifications for Construction.

Fly ash will be Class F or Class C and will conform to ASTM C 618 except that the limit for Loss on Ignition will be deleted.

Granular material will meet the requirements of Class II material as specified in Section 902 of the Standard Specifications for Construction except that 100 percent will pass the 13 mm sieve. Fine aggregate will meet the requirements of 2NS material as specified in Section 902 of the Standard Specifications for Construction. Water will meet Section 911 of the Standard Specifications for Construction.

The materials for bulk heading shall include mortar, geotextiles wrap, and tape for attachment. Mortar mix shall be Type H-1 non-shrinking mortar and grout mixture.

**c.** Construction. The temperature of the flowable fill mixture as manufactured and delivered will be at least 50° F.

Abandon sewer lines by completely filling the sewer lines with flowable fill. In long closures, provide ventilation taps where necessary.

During flowable fill placement operations, care will be used to avoid dislocating any pipes, due to fluid pressure from the flowable fill. Pipelines, manholes, and other areas not intended to receive flowable fill will be sealed tightly to prevent infiltration.

Seal each exposed remaining ends with bulk heads. The bulk heads shall be constructed such that prepared mortar mix shall be extended at least one foot into the pipe, then wrapped with geotextile material, same as used for the road, and secured in place with tape.

**d. Measurement and Payment.** The completed work as measured for Sewer, Abandon in Place will be paid for at the Contract Unit Price for the the following Contract Item (Pay Item):

Contract Item (Pay Item)	Pay Unit
Sewer, Abandon in Place	Lft

Sewer, Abandon in Place will be measured in place by the linear foot and will be paid for at the contract unit price per Lft which price shall be payment in full for all labor, material, and equipment needed to accomplish this work.

## MICHIGAN DEPARTMENT OF TRANSPORTATION

# SPECIAL PROVISION FOR TURF ESTABLISHMENT, PERFORMANCE

#### DES:JLB

#### 1 of 5 AF

APPR:DMG:LML:01-13-15

**a. Description.** For the work identified in this special provision paid for by the pay item Turf Establishment, Performance only, delete section 816 of the Standard Specifications for Construction and replace it with this special provision. The Contractor is responsible for the performance and quality of turf growth in the areas indicated on the plans and as identified by the Engineer. Comply with all local, state and federal laws when completing this work.

Establish a durable, permanent, weed-free, mature, perennial turf. The work consists of fundamental turf work, including but not limited to topsoiling, seeding, mulching, erosion control, maintenance, watering and repair of turf as described herein during the life of the contract and during the life of any supplemental performance bond which may ensue.

Choose and implement proven turf establishment industry practices; provide all necessary labor and equipment; select and provide all turf establishment materials; and control erosion and any subsequent sedimentation at all times.

Perform a site analysis, interpret the results and implement a turf establishment program to ensure compliance with this specification. The site analysis must take into consideration topsoil needs, fertilizer and pH requirements, seed mix, existing and future soil moisture levels, slopes and grades, required erosion control items and devices, maintenance requirements, local highway snow removal and deicing practices, and any other characteristics that influence and affect turf establishment.

Subsection 107.11 of the Standard Specifications for Construction is revised relative to the Contractor's responsibility for the repair of turf establishment work as follows. The Contractor is responsible, at no additional cost to the contract, for the repair of turf establishment work occasioned by storm events up to 3 inches of rain in a 24 hour period as documented by local meteorological data submitted to the Engineer for review and approval. All other portions of subsection 107.11 remain unchanged.

1. Contractor Turf Establishment Experience Requirements. Ensure weed control is done by a commercial herbicide applicator, licensed by the State of Michigan and certified by the Michigan Department of Agriculture (MDA) in the appropriate category to apply herbicides. Use application procedures and materials according to federal, state and local regulations. Use of restricted use chemicals is prohibited. Provide appropriate documentation and secure approval from the Engineer before application of herbicides.

At least 10 work days prior to start of turf establishment, provide documentation to the Engineer, from the Contractor performing the turf establishment work, that they meet one or both of the following requirements.

A. At least one person employed by the Contractor performing the turf establishment work and assigned to the job site has a degree or certificate in Turf

DES:JLB

Management, Horticulture or related field.

B. At least one person employed by the Contractor performing the turf establishment work and assigned to the job site has at least 5 years of experience in roadside turf establishment.

**b.** Materials. Provide topsoil, seed, mulch, pesticide, herbicide, mulch blankets and any other unique erosion control materials as necessary to fulfill this specification, as detailed on the plans. Use additional materials, as necessary, to meet the standards set forth for turf establishment in this special provision. The use of sod on the project requires the prior approval of the Engineer and if approved, may be used at limited site locations only.

Selection of all materials is the responsibility of the Contractor with the following minimum conditions.

1. Soil. Provide furnished or salvaged topsoil, which may be blended compost, that will support vigorous growth. Ensure topsoil is humus bearing and placed at least 4 inches deep. Ensure it is free of stones larger than 1/2 inch (2 inches on freeway projects) in diameter and other debris. Trim and grade the finished slope in accordance with subsection 205.03.N of the Standard Specifications for Construction.

2. Seed. Use a seeding mixture that is composed of four or more species of perennial grass. Use only species and their cultivars or varieties which are guaranteed hardy for Michigan.

Recommended species of perennial grasses include: Kentucky Bluegrass, Perennial Ryegrass, Hard Fescue, Creeping Red Fescue, Chewings Fescue, Turf-type Tall Fescue, Buffalo grass, and Alkaligrass-Fults Puccinellia distans. Select cultivars or varieties of grasses that are disease and insect resistant and of good color. Ensure that no one species in the mix is less than 5 percent, or more than 25 percent, of the mixture by weight. Do not select grass species considered noxious or objectionable, such as Quack Grass, Smooth Brome, Orchard Grass, Reed Canary Grass and others.

A. Ensure the seed is legally saleable in Michigan. Ensure the seed product does not contain more than 10 percent inert materials. Ensure the seed source is an MDOT approved certified vender.

B. Adapt the species and varieties of seed to the site conditions, to the site use, and to the soils, moisture and local climate. Site use may include, but is not limited to, detention pond, wildlife habitat, playground, wetlands, forested wetland, rural roadside, urban roadside and highly maintained front yard.

C. Ensure at least two of the species in the mixture proposed to be planted within 15 feet behind the curb or the shoulder are salt tolerant.

3. Mulch. Mulch seeded areas with the appropriate materials for the site conditions to promote germination and growth of seed and to mitigate soil erosion and sedimentation.

4. Herbicides. Comply with all federal, state and local laws. As part of the MDA weed control application, the Contractor is required to make proper notifications and/or postings as per label and MDA requirements for all locations that will be sprayed. Notify the Engineer at least 48 hours prior to any applications being made. Furnish and apply herbicide(s) as

needed. It is the Contractor's responsibility to select the herbicide(s) and the rate at which it is used. Obtain the Engineer's approval of work methods and herbicide(s) selected prior to the application of the herbicide(s). Complete a spray log and submit to the Engineer each day an application is made.

Do not draw water from any waterway (i.e. river, ditch, creek, lake etc.) located on state, county or municipal right-of-way, for mixing with herbicides.

5. Fertilizers. Furnish and apply fertilizer(s) as needed. It is the Contractor's responsibility to select the fertilizer(s) and the rate at which it is used. Phosphorus is allowed for use only at the time of planting and when required by soil conditions. Obtain the Engineer's approval of work methods and fertilizer(s) prior to the application of the fertilizer(s).

6. Water. Furnish and apply water from an approved source at a rate to promote healthy growth.

**c.** Construction. The Contractor is responsible for all work and all construction methods used in completing this work. Implementation of any part of the standard specifications or standard plans by the Contractor does not relieve the Contractor of responsibility for acceptability of the construction methods or for the quality of the work.

1. Inspection of the Work. The Contractor is responsible for all inspection of turf establishment work.

Use a Contractor's Daily Report, approved by the Engineer, to report inspections made and to document turf establishment work performed on this project. Complete and submit a Contractor's Daily Report to the Engineer when any work performed under this special provision is in progress.

Include all necessary materials documentation including tests slips, certifications, etc. with the associated Contractor's Daily Report.

The Engineer will determine the acceptability of the Contractor's Daily Report in terms of their completeness and accuracy. The Engineer reserves the right to verify all submitted measurements and computations. Failure by the Contractor to submit acceptable and timely reports to the Engineer may result in withholding of progress pay estimates on turf-related items until such time as reports are submitted and deemed acceptable.

The Engineer reserves the right to inspect the project for any reason in accordance with subsection 104.01 of the Standard Specifications for Construction, including the fulfillment of other inspection requirements such as Soil Erosion and Sedimentation Control, NPDES, etc. Inspections made by the Engineer do not relieve the Contractor of the responsibility for inspections required by this special provision or the Contractor's responsibilities for erosion control and turf establishment.

2. Erosion Control. Control erosion at all times according to section 208 of the Standard Specifications for Construction. Control of soil erosion is the responsibility of the Contractor. However, sedimentation controls must be placed as indicated on the plans or as directed by the Engineer. Continuously monitor the site for needed erosion repair from any cause as addressed in the contract. Return all eroded areas to original grade as detailed in the contract.

Take immediate corrective action if sedimentation occurs in drainage structures or any watercourse or water containment area and stabilize all disturbed areas contributing to this sedimentation within 24 hours after the erosion occurrence. Remove sediment deposited as a result of the Contractor's inability to control the soil erosion at the Contractor's expense.

Reimburse the Department for any costs levied against the Department, such as fines, environmental costs, costs for remedies required, or any other costs as a result of the Contractor's failure to comply with this special provision and with federal, state and local laws.

3. Erosion Repair. The Contractor is responsible for all repairs and liable for all consequences (legal, monetary or other) associated with erosion or sedimentation damage to finished or unfinished work.

Report all erosion occurrences and the repairs made by the Contractor to the Engineer in the format and at the frequency required by the Engineer. Repair any erosion, displacement or disturbance to ongoing or completed work by any cause at no additional cost to the contract unless otherwise noted herein.

The Contractor is responsible and liable for all traffic control and safety measures required to repair and protect damaged turf areas. Repair any eroded area that may affect the support of the roadbed or safety of the public within 24 hours of the erosion occurrence.

Place protective devices such as barriers, directional signs/signals, temporary fence, or any other safety measures immediately after any erosion damage occurs that has the potential of endangering the public. In these instances, provide the Engineer with a written summary of the immediate action taken describing the repairs made and the safety measures taken, within 24 hours of the occurrence of the damage.

4. Mowing and Weeding. Maintain turf to a visually appealing level, and not more than 8 inches in height at any time, prior to acceptance. Weeds must be controlled to less than 10 percent of the turf establishment area at all times during construction.

5. Final Acceptance and Supplemental Performance Bond.

A. Final Acceptance Parameters. Ensure before final acceptance of the turf establishment work, all of the following minimum parameters are met throughout all exposed areas of the project designated on the plans or identified by the Engineer as turf establishment areas: there must be no exposed bare soil and the turf must be fully germinated, erosion free, weed free, disease free, dark green in color and in a vigorous growing condition.

The Engineer will notify the Contractor of the dates and times of all acceptance inspections. The Contractor may accompany the Engineer during these inspections. If the Contractor does not agree with the decision made by the Engineer, the Contractor may request an inspection by a mutually agreed upon third party (Michigan State University Extension service or other). A joint inspection, to include the Engineer, the Contractor, and the third party, will be scheduled by the Engineer. Pay all expert fees and expenses charged by the third party.

B. Supplemental Performance Bond. In the event that all contract items of work are

completed, including the placement of all turf establishment items of work, and the final acceptance of the project is delayed because the final acceptance parameters for the turf establishment work have not been fully met; the Contractor may propose to the Engineer the use of a supplemental performance bond.

The bond serves to secure the successful completion of turf establishment work and fulfillment of all final acceptance parameters for the turf establishment work. Ensure the supplemental performance bond, in all respects, is satisfactory and acceptable to the Department and executed by a surety company authorized to do business with the State of Michigan.

Ensure the bond is in an amount equal to 50 percent of the turf establishment work items covered by this special provision. Ensure the bond remains in place for two growing seasons. At the discretion of the Engineer, the bond may be reduced on a prorated basis as portions of the areas designated for turf establishment on the project meet the final acceptance parameters.

Prior to commencement of any work necessary to meet the acceptance parameters during the bonded period, the Contractor must apply for a permit to work within MDOT right-of-way using Form 2205. The permit fee and an individual permit performance bond will not be required. The permit insurance requirements, however, will be required.

**d.** Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

#### Pay Item

#### Pay Unit

Turf Establishment, Performance......Square Yard

**Turf Establishment, Performance** will include all labor, equipment and materials required or selected by the Contractor to install, maintain, inspect, repair and meet the acceptance parameters for turf establishment specified in this special provision, including preparation, updating and submittal of the Contractor's Daily Reports.

Repairs made to damaged turf establishment areas as a result of a documented storm by local meteorological data resulting in rainfall amounts of more than 3 inches in a 24 hour period will be paid for as an increase to original quantities in accordance with subsection 109.05 of the Standard Specifications for Construction.

The following schedule of payment applies to work performed according to this special provision. Upon completion of topsoil surfacing stage, 50 percent of the authorized amount for **Turf Establishment, Performance** will be paid to the Contractor. The remaining 50 percent of the authorized amount will be paid upon completion of all other work necessary to comply with this special provision and to meet all final acceptance parameters for **Turf Establishment, Performance** or at such time as the supplemental performance bond is accepted by the Department.

The supplemental performance bond and all costs associated with turf establishment work performed during the duration of the performance bond will not be paid for separately. These costs which may include, but are not limited to, mobilization, traffic control devices, and the required permit insurance are included in the unit price bid for **Turf Establishment**, **Performance**.

SPECIAL PROVISION FOR VALVE BOX, ADJUST

#### City of Owosso/RC

**Description** 

The work of Valve Box, Adjust shall be done in accordance with Section 403 of the MDOT 2012 Standard Specifications for Construction, and as modified herein. This work shall include the proper setting and support of valve boxes within the proposed pavement area.

## Method of Construction

This work item shall include adjustment of water valve boxes and covers to final grade in advance of the final course of HMA. The Contractor shall sawcut, remove adjacent pavement, center box over the water valve, set and support cover to the required elevation, and replace pavement at equivalent depth with HMA of same type and mix as top course material.

## Measurement and Payment

The completed work as measured for Valve Box, Adjust will be paid for at the contract unit price for the following contract pay item (Pay Item):

Contract Item (Pay Item)	Pay Unit
--------------------------	----------

Valve Box, Adjust

Valve Box, Adjust will be measured in in place by the unit Each and will be paid for at the contract unit price per Each, which price shall be payment in full for all labor, material, and equipment needed to accomplish this work.

The unit price for Valve Box, Adjust includes the following:

- 1. Sawcutting existing pavement.
- 2. Adjusting and supporting the valve box.
- 3. Removing and replacing HMA adjacent to the adjusted cover.

Each

1 OF 1

Dec, 2018