# ADDENDUM No. 3

# ITB No. 4563

# Hoover, Greene, & Hill Improvement Project

# Bids Due: March 8, 2019 at 10:00 A.M. (Local Time)

The following changes, additions, and/or deletions shall be made to the Invitation to Bid for Hoover, Greene, & Hill Improvement Project, ITB No. 4563, on which proposals will be received on/or before March 8, 2019, at 10:00 A.M. (local time).

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 62 pages total.** 

Bidder is to acknowledge receipt of this Addendum No. 3, including all attachments (if any) in its Bid by so indicating on page ITB-1 of the Invitation to Bid Form. Bids submitted without acknowledgment of receipt of this addendum will be considered nonconforming.

The following forms provided within the ITB document must be included in submitted bids:

- City of Ann Arbor Prevailing Wage Declaration of Compliance
- City of Ann Arbor Living Wage Ordinance Declaration of Compliance
- Vendor Conflict of Interest Disclosure Form
- City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance

# Bids that fail to provide these completed forms listed above upon bid opening will be rejected as non-responsive and will not be considered for award.

# I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the Bid document which are outlined below are referenced to a page or Section in which they appear conspicuously. The Bidder is to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

# Section/Page(s)ChangeIB-4Inserted Current Wage Rate Decision for Heavy and Highway that will be<br/>used for this project. The decisions in their entirety can be found on pages<br/>ADD-3-23 through ADD-3-58 of this addendum.BF-1 thru BF-5Delete pages BF-1 through BF-5 of the bid form pages of the contract<br/>documents. Replace these pages with BF-1-R-2 through BF-9-R-2 that are<br/>pages ADD-3-6 through ADD-3-14 of this addendum. In addition, the

following pay item was modified and/or added.

Item Description	<u>Unit</u>	Est. Quantity
205 Barricade, Type III, High Intensity, Lighted, Furn & Oper	Ea	25
206 Channelizing Device, 42 inch, High Intensity, Furn & Oper	Ea	230
207 Plastic Drum, High Intensity, Furn & Oper	Ea	60
236 Pavement, Remove	Syd	16,500
244 Aggregate Base Course, 21AA, Modified	Ton	6,400
266 HMA, 3E1	Ton	2,805
267 HMA, 4E1	Ton	1,750
268 HMA, 5E1	Ton	1,875
276 Topsoil Surface, 4 inch	Syd	1,300
277 Seeding and Mulching	Syd	1,300
279 Line Stop, Ductile Iron Pipe, 8 inch (item renumber)		
279 Line Stop, Ductile Iron Pipe, 6 inch (item renumbered)		
280 Line Stop, Additional Rental Day	Each	10

Comment: The intent of this change is to replace pages of Section 1 Bid Form pages with the revised pages provided herein that are pages ADD-3-6 through ADD-3-14.

DS-156 thru DS161 Delete the existing Detailed Specification entitled "Temporary Water Main Line Stop." Replace with the Detailed Specification entitled "Temporary Water Main Line Stop" dated March 1, 2019. This detailed specification is pages ADD-3-17 through ADD-3-22 of this addendum.

Comment: The Detailed Specification has been revised for include a line stop rental pay item and clarifies pavement removal, aggregate base course, bituminous pavement, and traffic control items as necessary to construct the line stop (as determined by the Engineer), shall be paid for separately as specified elsewhere; all other items shall be included in the pay item for the line stop.

DS-122 thru DS-123 Delete the existing Detailed Specification entitled "Project Clean-up and Restoration, Special." Replace with the Detailed Specification entitled "Project Clean-up and Restoration, Special" dated March 1, 2019. This detailed specification is pages ADD-3-15 through ADD-3-16 of this addendum.

*Comment:* The Detailed Specification has been revised to clarify "Topsoil Surface, 4 inch" and "Seeding and Mulching" to be paid for separately.

### Section/Page(s) Change

- Plan Sheet 3 of 83 Added "Line Stop, Additional Rental Day" pay item to Note Sheet. The Contractor shall note that the quantities on this sheet have been revised from those as presented on the revised bid forms and shall update them as appropriate.
- Plan Sheet 21 of 83 Updated detail added for "Fire Hydrant Assy, w/Extensions, Complete" pay item showing push on joints versus mechanical joints.
- Plan Sheet 23 of 83 The contractor is required to follow Note No. 1 and provide signed and

sealed shop drawings for each storm control structure. Note No. 3 referring to ACI 350-1 shall be omitted from the plans.

- Plan Sheet 25 of 83 Detail added for "Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall" pay item.
- Plan Sheet 83 of 83 The Contractor shall note that the quantities on this sheet have been revised from those as presented on the revised bid forms and shall update them as appropriate.

# **II. QUESTIONS AND ANSWERS**

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the ITB. Offerors are directed to take note in their review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

- Question 1: Did you have an engineers estimate for this project (for bonding purposes)? What is the Engineers estimate for the project? What is the anticipated construction cost of the project?
- Answer 1: \$4,257,500.00
- **Question 2:** Is the Contractor responsible for any fees or costs directly associated with work near or in the railroad ROW (including railroad flaggers or inspectors)? If so, please provide the necessary information to determine the appropriate costs to the Contractor.
- Answer 2: Yes. The Railroad has not issued permits yet and amounts are subject to change. At this time, there will be four permits issued for the crossings at Hill and Hoover. There will be a \$1,750 fee for each permit for work within the railroad ROW as well as an \$850 processing fee for each permit. Once the permits have been issued, the Railroad will dictate flagging operations for traffic control which is anticipated to cost a maximum of \$150 per hour for the duration of construction within the railroad ROW. For bidding purposes, assume flagging operations will be required for 100 hours. This work shall be paid for as a part of "General Conditions, Max".
- **Question 3:** Please provide a detail for the pay item "Pedestrian Barrier with Fence, Temp" as described in the Special Provision of the same name.
- **Answer 3:** Refer to detailed specification for information on device. For reference, this device is also used on MDOT projects and as shown in below MDOT image.



- **Question 4:** Can the requirement to install post driven temporary traffic control signs (for installations greater than 14 days) be waived?
- **Answer 4:** The requirement will not be waived. Consideration for waiving driven posts will be performed on a sign by sign basis between the Contractor and Engineer given site specific circumstances such as, but not limited to, underground utilities, sidewalk, obstructions, and similar.
- **Question 5:** Please clarify the type of aggregate backfill material will be required for the pay item entitled "Subgrade Undercutting, Type IIB". The Special Provision states that the backfill material shall be Granular Material Class II or as directed by the engineer.
- **Answer 5:** The backfill material shall be Granular Class II. The Engineer has the discretion to consider use of other backfill material if a suitable alternative is proposed by the Contractor.
- **Question 6:** Please provide the required replacement detail showing the necessary cross section for the pay item entitled "Sidewalk, Conc or Clay Brick Pavers, Rem and Reinstall". No detail has been provided on the plans.
- **Answer 6:** The appropriate detail has been added to Plan Sheet 25.
- **Question 7:** Please clarify when and where restrained joint DIP will be required to be "TR-Flex" as detailed in the special provision for "Water Main and Appurtenances" (specifically, Section b.2.A; fourth paragraph on page DS-133). I believe that the intent is to provide restrained joint pipe and fittings using "Field-Lok" gaskets (as typical for City of Ann Arbor installations).
- **Answer 7:** Restrained joint pipe shall be used where called out on the plans and at all fire hydrant leads from the tee at the main line water main to the hydrant. The Detailed Specification makes the distinction between true restrained joint pipe and push-on joint pipe that has restrained joints via the use of "restraining gaskets". For the purposes of this project, the restrained joint pipe as detailed on the plans shall be accomplished with the use of "Fast-Grip" or "Field-Lok 350" gaskets as appropriate to the type of water main being installed.

**Question 8:** Please clarify if the required Hydrant shoe assembly will be MJ or PJ.

Answer 8: The hydrant shoe assembly shall be push joint. The detail on Plan Sheet 21 has

been updated to reflect this.

- **Question 9:** Please provide a pay item for additional "Temporary Water Main Line Stop" rental day(s), for situations when the proposed line stop needs to be in service for more than 24 hours.
- **Answer 9:** The pay item "Line Stop, Additional Rental Day" has been added.
- Question 10: Please consider removing the traffic control items, pavement removal, aggregate base installation and pavement replacement from the "Temporary Water Main Line Stop" pay item. As these are usually installed outside of the work zone it is impossible to determine what type of removal(s), replacement(s) and traffic control that may be necessary to provide the specified line stop installation. These items could be paid for separately via other contractual pay items.
- **Answer 10:** The traffic control items, pavement removal, aggregate base and pavement replacement items have been removed from the pay item "Temporary Water Main Line Stop" and will be paid for separately through the corresponding pay item. See updated Detailed Specification.
- Question 11: Please clarify the following statement found in the Special Provision for "Maintaining Traffic and Construction Sequencing" (Addendum #2, Page ADD-2-21, Second Paragraph): "The Contractor shall suspend work within the CIA during peak traffic hours and / or when construction activities are unduly hampering or delaying traffic flow as determined by the Engineer." What is the intent of this statement and how will it be implemented on the project?
- **Answer 11:** The intent of the statement is to minimize disruption to traffic operations through the construction zones during the peak traffic hours by construction vehicles and related construction activities within travel lanes and routes being maintained for traffic. The Contractor and Engineer will coordinate on this item during construction with the goal to maintain and continue construction operations while minimizing travel lane and route disruptions during peak hours.
- Question 12: Please confirm that the phased construction on Greene and Keech (Phase 2A / 2B) can be performed at the same time as the phased construction on Hoover (Stage 1A / 1B). Can stage 1 and 2 run concurrently?
- **Answer 12:** Stage 1A/1B can overlap with Stage 2A/2B. Stage 1 must be completed by August 20, 2019.
- Question 13: Can you please describe when seeding and topsoil installation will be paid for as part of the various "Project Clean-Up and Restoration, Special" pay items in lieu of the pay items "Topsoil Surface, 4 Inch" and "Seeding and Mulching"? It seems that these pay items overlap in scope.
- **Answer 13:** All topsoil, seeding and mulching will be paid for per the Turf Establishment detailed specification. The detailed specification for "Project Clean-Up and Restoration, Special" has been updated to clear up the payment of these items.

Respondents are responsible for any conclusions that they may draw from the information contained in the Addendum.

# Section 1 – Schedule of Prices

Company:

# Project: Hoover, Greene, & Hill Improvement Project

# City of Ann Arbor File No.: 2018-031

<u>ltem</u>	Description	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	Total Price
130	Protective Fencing	Ft	2000		
	Exploratory Excavation, (0-10 ft. deep)				
140	(Trench Det 1, Modified)	Ea	16		
201	Certified Payroll Compliance and Reporting	LSUN	1 1		
202	General Conditions, Max \$370,000	LSUN	1 1		
203	Audio-visual Recording	LSUN	1 1		
204	Traffic Regulator Control	LSUN	1 1		
	Barricade, Type III, High Intensity, Lighted,				
205	Furn & Oper	Ea	25		
206	Channelizing Device, 42 inch, High Intensity,				
	Furn & Oper	Ea	230		
207	Plastic Drum, High Intensity, Furn & Oper	Ea	60		
208	Sign, Type B, Temp, Prismatic, Special, Furn &				
	Oper	Sft	500		
209	Sign, Type A, Temp, Prismatic, Furn & Oper	Sft	60		
210	Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	1400		
211	Lighted Arrow, Type C, Furn & Oper	Ea	4		
212	Sign, Portable, Changeable Message, NTFCIP-	_			
	Compliant, Furn & Oper	Ea	4		
213	Remove Special Marking	Sft	300		
214	Concrete Barrier, Temp, Furn & Oper	Ft	100		
215	Sign Cover	Ea	10		
216	Pedestrian Barrier with Fence, Temp	Ft	100		
217	Pedestrian Type II Barricade, Temp	Ea	30		
218	Pedestrian Type II Channelizer, Temp	Ft	300		
219	Pedestrian Path, Temp	Ft	100		
220	Pedestrian Ramp, Temp	Ea	6		
221	Pavt Mrkg, Sprayable Thermopl, 4 inch,				
221	Yellow	Ft	8000		
221	Pavt Mrkg, Sprayable Thermopl, 4 inch,				
	White	Ft	4200		
222	Pavt Mrkg, Thermoplastic, 24 inch Stop Bar	Ft	400		
223	Pavt Mrkg, Thermopl, 12 inch Crosswalk	Ft	2300		

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BF-1-R-2

### Section 1 – Schedule of Prices

Company:

# Project: Hoover, Greene, & Hill Improvement Project

# City of Ann Arbor File No.: 2018-031

<u>ltem</u>	Description	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	Total Price
224	Pavt Mrkg, Ovly Cold Plastic, Railroad Sym	Ea	4		
224	Pavt Mrkg, Ovly Cold Plastic, Bike Arrow Sym	Ea	11		
224	Pavt Mrkg, Ovly Cold Plastic, Bike Sym	Ea	11		
224	Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym	Ea	10		
224	Pavt Mrkg, Ovly Cold Plastic, Rt Arrow Sym	Ea	7		
224	Pavt Mrkg, Ovly Cold Plastic, Lt Arrow Sym	Ea	7		
226	Minor Traffic Devices, Max \$180,000	LSUN	Л 1		
228	Parking Meters, Remove	Ea	7		
229	Erosion Control, Inlet Filter	Ea	65		
230	Sewer, Any Size or Depth, Rem	Ft	2500		
231	Dr Structure, Any Size or Depth, Rem	Ea	21		
233	Curb and Gutter, Any Type or Size, Rem	Ft	4000		
234	Sidewalk and Ramps, Remove	Sft	10300		
235	Driveway Approach, Remove	Sft	2600		
236	Pavement, Remove	Syd	16500		
238	Machine Grading, Modified, Greene	Sta	13.5		
238	Machine Grading, Modified, Hill	Sta	5.75		
238	Machine Grading, Modified, Hoover	Sta	27		
	Non-Hazardous Contrm'd Mat'l Handling &				
240	Disposal	Cyd	200		
241	Subgrade Undercutting, Type IIB	Cyd	200		
242	Structure Covers, Special	Lbs	39800		
243	6 inch, Wrapped Underdrain	Ft	3500		
244	Aggregate Base Course, 21AA, Modified	Ton	6400		
245	Maintenance Gravel, 21AA, Modified	Ton	500		
246	Flowable Fill (Backfill)	Cyd	30		
	Curb and Gutter, Conc, Match Existing,				
250	Special	Ft	1550		
251	Curb and Gutter, Conc, AA Det SD-R-1,	г+	1900		
251	Special	Ft	1800		
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BF-2-R-2

### Section 1 – Schedule of Prices

Company:

### Hoover, Greene, & Hill Improvement Project Project:

City of Ann Arbor File No.: 2018-031

Item	Description	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	Total Price
252	Driveway Opening, Conc, Detail M, P-NC	Ft	650		
255	Sidewalk, Concrete, 4 inch, Special	Sft	2850		
255	Sidewalk, Concrete, 6 inch, Special	Sft	80		
256	Sidewalk Ramp, Concrete, 6 inch, Special	Sft	1000		
257	Sidewalk, Concrete, 8 inch, S2 Special	Sft	5280		
258	Sidewalk Ramp, Concrete, 8 inch, S2 Special	sft	1090		
259	Drive Approach, Conc, 6 inch, Non-Reinf	Sft	2000		
260	Concrete Drive Approach, 8 inch, Non-Reinf,				
	P-NC,	Sft	600		
261	Detectable Warning Surface, Modified	Ft	341		
	Sidewalk, Conc or Clay Brick Pavers, Rem and	- 4			
263	Reinstall	Sft	360		
264	Cold Milling HMA Surface, Modified	Syd	1050		
265	Hand Patching, Modified	Ton	50		
266	HMA, 3E1	Ton	2805		
267	HMA, 4E1	Ton	1750		
268	HMA, 5E1	Ton	1875		
270	No Parking Sign	Ea	120		
	Irrigation Systems, Protection and				
272	Maintenance	LSUN	1 1	\$10,000.00	\$10,000.00
274	Project Clean-Up and Restoration, Special -	LSUN	1 1		
274	Greene Project Clean-Up and Restoration, Special -	LSUN	1 1		
274	Hill	LSUN	1 1		
_, .	Project Clean-Up and Restoration, Special -	20011			
274	Hoover	LSUN	1 1		
276	Topsoil Surface, 4 inch	Syd	1300		
277	Seeding and Mulching	Syd	1300		
278	Storm Control Structure, R1	Each	1		
278	Storm Control Structure, R2	Each	1		
278	Storm Control Structure, R3	Each	1		
278	Storm Control Structure, 97-51067	Each	1		
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BF-3-R-2

### Section 1 – Schedule of Prices

Company:

# Project: Hoover, Greene, & Hill Improvement Project

### City of Ann Arbor File No.: 2018-031

Item	Description	<u>Unit</u>	Quantity	Unit Price	Total Price
279	Line Stop, Ductile Iron Pipe, 8 inch	Ea	1		
279	Line Stop, Ductile Iron Pipe, 6 inch	Ea	7		
280	Line Stop, Additional Rental Day	Each	10		
281	Pedestrian Light, Remove and Re-Install	Each	2		
282	Handhole Assembly, 12 inch x 18 inch	Ea	17		
283	Conduit, Directional Bore, 3 inch	Ft	2942		
	D.I., Cl-56, Water Main, w/Poly Wrap, 12				
284	inch, Bored in Steel Casing	Ft	232		
	PC 350, D.I. Water Main, w/Poly Wrap, 12				
285	inch, Tr Det I, Mod	Ft	3297		
	PC 350, D.I. Water Main, w/Poly Wrap, 4		. –		
285	inch, Tr Det I, Mod	Ft	17		
285	PC 350, D.I. Water Main, w/Poly Wrap, 8	Ft	105		
	inch, Tr Det I, Mod				
286	90 deg Bend, 12 inch	Ea	2		
286	45 deg Bend, 12 inch	Ea	80		
286	22.5 deg Bend, 12 inch	Ea	2		
286	11.25 deg Bend, 12 inch	Ea	2		
286	90 deg Bend, 4 Inch	Ea	1		
287	Reducer, 12 inch x 6 inch	Ea	14		
287	Reducer, 8 inch x 6 inch	Ea	8		
288	Tee, 12 inch x 12 inch x 12 inch	Ea	12		
288	Tee, 12 inch x 12 inch x 10 inch	Ea	1		
288	Tee, 12 inch x 12 inch x 4 inch	Ea	1		
288	Tee, 12 inch x 12 inch x 6 inch	Ea	1		
288	Tee, 12 inch x 12 inch x 8 inch	Ea	8		
289	Fire Hydrant Assy, w/Extensions, Complete	Ea	9		
290	Gate Valve-in-Box, 12 inch	Ea	6		
290	Gate Valve-in-Box, 4 inch	Ea	1		
291	Gate Valve-in-Well, 12 inch	Ea	14		
	Tapping Sleeve 16 inch x 16 inch x 12 inch,				
292	Valve and Box	Ea	1		
	Tapping Sleeve 10 inch x 10 inch x 4 inch,	_			
292	Valve and Box	Ea	1		
			- D	¢	

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BF-4-R-2

### Section 1 – Schedule of Prices

Company:

# Project: Hoover, Greene, & Hill Improvement Project

# City of Ann Arbor File No.: 2018-031

2946 inch Water Main, AbandonLft4966295Water Main, Abandon w/Flowable FillLft145296Gate Valve-in-Box, AbandonEa13297Gate Valve-in-Well, AbandonEa10298Fire Hydrant, RemEa7	
296Gate Valve-in-Box, AbandonEa13297Gate Valve-in-Well, AbandonEa10298Fire Hydrant, RemEa7	
297       Gate Valve-in-Well, Abandon       Ea       10          298       Fire Hydrant, Rem       Ea       7	
298         Fire Hydrant, Rem         Ea         7	
200 Tenning Cleave Melly and Melly Derrows 5-	
299 Tapping Sleeve, Valve and Well, Remove Ea 1	
320 RCP, Sewer, C76, CL-IV, 12 inch, Tr Det I Ft 12	
321 RCP, Sewer, C76, CL-IV, 15 inch, Tr Det I Ft 40	
322 RCP, Sewer, C76, CL- IV, 36 inch, Tr Det I Ft 754	
323 RCP, Sewer, C76, CL- IV, 48 inch, Tr Det I Ft 491	
335 SDR 35, PVC Tee Ea 2	
350 SDR 35 PVC Riser VFt 10	
353         SDR 35 PVC Service Lead         Ft         40	
360         Type I Manhole (0-10 ft. Deep)         Ea         2	
361 Type I Manhole Add'l Depth Vf 10	
362 Type II Manhole (6 ft. Dia.) (0-10 ft. deep) Ea 8	
363 Type II Manhole (6 ft. Dia.) Add'l Depth Vf 9	
367 Single Inlet Ea 6	
Excavate & Backfill for Water Service Tap and	
460 Lead Lft 400	
564   Reconstruct Structure   Ea   3	
566   Adjust Structure Cover   Ea   75	
567    Adjust Monument Box or Gate Valve Box    Ea    4	
Additional Depth Structure-	
568   Adjustment/Repair   Vft   20     702   Sill Superior   51   1020	
703Silt FenceFt1000	
Sub-Total This Page \$	
Sub-Total Page BF-1 \$	
Sub-Total Page BF-2 \$	
Sub-Total Page BF-3 \$	
Sub-Total Page BF-4 \$	

Grand Total Bid

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BF-5-R-2

### Section 2 – Material, Equipment and Environmental Alternates

The Base Bid proposal price shall include materials and equipment selected from the designated items and manufacturers listed in the bidding documents. This is done to establish uniformity in bidding and to establish standards of quality for the items named.

If the Contractor wishes to quote alternate items for consideration by the City, it may do so under this Section. A complete description of the item and the proposed price differential must be provided. Unless approved at the time of award, substitutions where items are specifically named will be considered only as a negotiated change in Contract Sum.

If an environmental alternative is bid the City strongly encourages bidders to provide recent examples of product testing and previous successful use for the City to properly evaluate the environmental alternative. Testing data from independent accredited organizations are strongly preferred.

Item Number

**Description** 

Add/Deduct Amount

If the Bidder does not suggest any material or equipment alternate, the Bidder **MUST** complete the following statement:

For the work outlined in this request for bid, the bidder does NOT propose any material or equipment alternate under the Contract.

Signature of Authorized Representative of Bidder \_\_\_\_\_ Date \_\_\_\_\_

### Section 3 - Time Alternate

If the Bidder takes exception to the time stipulated in Article III of the Contract, Time of Completion, page C-2, it is requested to stipulate below its proposed time for performance of the work. Consideration will be given to time in evaluating bids.

If the Bidder does not suggest any time alternate, the Bidder **MUST** complete the following statement:

For the work outlined in this request for bid, the bidder does NOT propose any time alternate under the Contract.

Signature of Authorized Representative of Bidder \_\_\_\_\_ Date \_\_\_\_\_

BF-7-R-2

### Section 4 - Major Subcontractors

For purposes of this Contract, a Subcontractor is anyone (other than the Contractor) who performs work (other than or in addition to the furnishing of materials, plans or equipment) at or about the construction site, directly or indirectly for or on behalf of the Contractor (and whether or not in privity of Contract with the Contractor), but shall not include any individual who furnishes merely the individual's own personal labor or services.

Contractor agrees that all subcontracts entered into by the Contractor shall contain similar wage provision to Section 4 of the General Conditions covering subcontractor's employees who perform work on this contract.

For the work outlined in these documents the Bidder expects to engage the following major subcontractors to perform the work identified:

Subcontractor (Name and Address)

Work

Amount

If the Bidder does not expect to engage any major subcontractor, the Bidder **MUST** complete the following statement:

For the work outlined in this request for bid, the bidder does NOT expect to engage any major subcontractor to perform work under the Contract.

Signature of Authorized Representative of Bidder\_\_\_\_\_ Date \_\_\_\_\_

# Section 5 – References

Include a minimum of **three (3)** reference from similar project completed within the past **five (5)** years.

# [Refer also to Instructions to Bidders for additional requirements, if any]

1)			
,	Project Name	Cost	Date Constructed
	Contact Name		Phone Number
2)	Project Name	Cost	Date Constructed
	Contact Name		Phone Number
3)	Project Name	Cost	Date Constructed
	Contact Name		 Phone Number

BF-9-R-2

### CITY OF ANN ARBOR DETAILED SPECIFICATION FOR PROJECT CLEAN-UP AND RESTORATION, SPECIAL

WT:VCM

### 1 of 2

03/01/19

**a. Description.-** This work consists of performing on-going clean-up, removing, and disposing of debris; including soil erosion control fences, protective fences, fallen timber, logs, brush, rocks, boulders, and any other rubbish generated from the Contractor's operations within the project limits or areas impacted by their operations. The Contractor shall perform final restoration and establish the planting areas as described in this Detailed Specification, as indicated on the Drawings, and as directed by the Engineer.

The related work of salvaging the existing topsoil, stockpiling the existing topsoil, preparing the earth bed, re-spreading the topsoil, furnishing the seed mixtures, sowing the seed, furnishing, placing, and anchoring the mulch blanket shall conform to the requirements of this Detailed Specification and the Detailed Specification for Turf Establishment.

**b.** Materials.- The materials shall meet the requirements specified in the 2012 edition of the MDOT Standard Specifications for Construction, except as specified herein:

1. 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. Mulch blankets shall be as specified in the Detailed Specification for "Turf Establishment".

**c.** Construction.- Provide project cleanup as an ongoing operation. Perform project cleanup within the right-of-way and any other areas impacted by the project work operations.

Fill all holes and ruts resulting from the work operations with Engineer-approved material. Compact and level all backfill materials and restore ruts and holes to the surrounding contour as directed by the Engineer.

Grade, spread topsoil, remove rocks over 2 inches in diameter, place additional topsoil (as needed), place permanent seeding, and furnish, place, and anchor erosion control straw mulch blanket in all areas disturbed by the Contractor's operations. The Contractor shall be responsible for performing the permanent restoration of the Project area and other areas as part of the work of this Detailed Specification.

WT:VCM

Topsoil placement shall occur at the locations called for on the Drawings or as directed by the Engineer. Minimum topsoil thickness in restoration areas shall be 4 inches. The Contractor may be required to truck in additional topsoil.

Damage to seeded areas resulting from erosion shall be repaired by the Contractor at the Contractor's expense. Scattered bare spots in seeded areas will not be allowed over 3 percent of the area nor greater than 6- by 6-inch in size.

Clean existing culverts, ditches, depressions, or other areas that contain sediment or debris from the work operations.

Neatly fill any ruts or depressions resulting from removal of soil erosion control materials with existing materials after their removal. Maintenance of silt fencing and other soil erosion control materials until such time as they are no longer needed, then removal and proper disposal of them from the site, shall be included in the bid price for the related soil erosion control device.

The project site shall be left in a condition that is clean and free of all project-generated debris and to the satisfaction of the Engineer.

**d. Measurement and Payment.-** The completed work as measured shall be paid at the contract unit price for the following contract pay items:

### Contract Pay Item

### Pay Unit

Item 274: Project Clean-Up and Restoration, Special - \_\_\_\_\_.Lump Sum

The lump sum price for "Project Clean-Up and Restoration, Special - \_\_\_\_\_" shall include all remaining project clean-up and restoration work, including all labor, material, and equipment costs required to complete the work as specified herein.

'Topsoil Surface, 4 inch" and "Seeding and Mulching" are paid for separately as specified elsewhere.

### CITY OF ANN ARBOR SPECIAL PROVISION FOR TEMPORARY WATER MAIN LINE STOP

WT:VCM

### 1 of 6

03/01/19

**a. Description.-** The Contractor shall furnish all materials, labor and equipment to properly install and set water main line stops into the existing Ductile Iron Main(s) at the locations as shown on the plans and as directed by the Engineer. All work shall be performed in accordance with the requirements as detailed herein.

The existing mains, upstream and downstream of the proposed line stop(s) cannot be shut down or taken out of service. To ensure that the entire operation shall be accomplished without interruption of service or flow, the installation shall be accomplished by Contractor personnel skilled and experienced in the procedures specific to line stops of the required size(s).

The work shall include, but not be limited to; pavement saw-cutting; excavation and disposal of excavated material; the furnishing, installation, and removal of sheeting and/or shoring where needed; the furnishing, placement and compaction of approved bedding and backfill materials; furnishing and placing suitable, clean, gravel to create a stable working surface at the bottom of the excavation; de-watering; pipe cleaning, measuring, and performing all advance work necessary to prepare for the performance of the line stop; nighttime lighting as required; the removal of all materials and equipment associated with the work when no longer needed; and backfill, restoration and compaction of subgrade. This work shall also include all traffic maintenance and control items in accordance with the Michigan Manual of Uniform Traffic Control Devices.

**b.** Materials.- Bedding and backfill for areas contained within a segment of water main designated as Trench Detail I (under roadbed), Modified, shall be Granular Material, Class II, meeting the requirements of Section 902. For work within a segment of water main designated as Trench Detail V (outside of the 1:1 influence line of roadbed or curb and gutter), Modified, Granular Material, Class II and Engineer approved native material, placed in accordance with the trench details, shall be used.

The Contractor shall submit to the Engineer two (2) sets of drawings, furnished by manufacturers, fully and distinctly illustrated and describing the Line Stop fittings proposed to be furnished. Work shall not commence until such time as the drawings have been reviewed and accepted by the Engineer.

Line Stop Fittings shall be full encirclement, pressure retention type split tee. It shall consist of two steel weldments; an upper line stop flange saddle plate and a lower saddle plate. These two saddle plates shall be contiguous.

Line Stop Flange: The outlet of each fitting shall be machined from a 150 lb. forged steel flange (ASTM A181 or A105) or from pressure vessel quality steel plate (ASTM A285, Grade C); flat faced and drilled per ANSI B16.5). Suitable independently operated locking devices shall be provided in the periphery of the flange to secure the completion plug.

Line stop Nozzle: The nozzle, which lies between the saddle and the flange shall be fabricated from steel pipe (ASTM A234). After welding and stress relief, the nozzle shall be accurately bored as follows to accommodate the Line stop plugging head:

a) Machine an internal circular shoulder to seal against the circumferential gasket carried on the plugging head.

Completion Plug: The completion plug shall be machined from a stress relieved carbon steel weldment. It shall contain two (2) circumferential grooves: one to receive the locking devices from the Line stop flange, and the second to contain a compressible "O" ring to seal pressure tight against the bore of the flange.

Blind Flange: Each Line stop fitting shall be closed with a blind flange. Facing and drilling of the blind flange shall be compatible with that of the Line stop flange. Minimum blind flange thickness shall be that of AWWA Spec. 207, Class D.

Saddle Alignment Marking: Each saddle-half shall be matched and marked with serial numbers, to insure proper alignment in the field.

Fasteners: All bolts, studs, and nuts used on Line stop, drain/equalization fittings, blind flange, and other elements that shall remain upon completion of the work shall be stainless steel and meet the requirements of ASTM F 593.

General: Manufacturer will exercise extreme care to ensure that weldments are of adequate strength, properly shaped, securely reinforced, and free from distortion that could stress the ductile iron main during installation, pressure tapping, or Line stopping operations. All steel shall meet the requirements of ASTM A36, as a minimum. All weldments shall be braced and stress relieved.

Gaskets: Shall be molded from elastomer compounds that resist compression setting and are compatible with water in the 32 to 140 deg. F temperature range.

Upper Line stop Flange Saddle: Shall consist of a saddle plate, a Line stop flange, and a Line Stop nozzle. The interior of the saddle plate, adjacent to and concentric with the O.D. of the nozzle, shall be grooved to retain a gasket which shall seal the saddle plate to the exterior of the ductile iron main. This gasket shall constitute the only seal between the main and the fitting. The flange saddle shall also meet the following requirements:

- a) Saddle plate shall be of a minimum of 0.375" in thickness. It shall be shaped to be concentric to the outside of the ductile iron main. The smallest I.D. of the saddle and its interior rings shall exceed the O.D. of the main by a minimum of 0.250" to allow for ovality of the main;
- b) Line stop nozzle of 0.375" min. wall thickness shall be securely welded to the saddle plate;
- c) The Line Stop flange shall be securely welded to the nozzle. After welding, the assembly shall be braced, stress relieved, and bored to receive the completion plug and the circumferential gasket of the Line Stop machine plugging head; and,
- d) Bolt, nut of stud, nut, and washer assemblies shall be furnished to draw the upper and lower saddles together for sealing. Bolting brackets shall be gusseted.

Lower Saddle Plate: Saddle plate shall be of a minimum 0.375" thickness and shall be shaped to be concentric to the outside brackets shall match upper half.

**c.** Equipment.- The equipment shall consist of a cylindrical plugging head that contains a flat, expandable elastomer sealing element. The plugging head shall be advanced into and retracted from the main by means of a linear actuator. When retracted, the plugging head and carrier are housed in an adapter, bolted pressure tight between the tapping valve and the actuator.

Sealing Element: The element shall be monolithically molded from a suitable polyurethane compound. The element shall be flat in a plane perpendicular to the flow in the main. Minimum thickness of the element shall be 4". The bottom of the element shall be semi-circular to conform to the bore of the main.

Drilling equipment: Shall be in good working condition, equipped with power drive to insure smooth cutting, and to minimize shock and vibration. Cutting equipment shall be carbide tipped and capable of being replaced without removal from the jobsite.

Plugging Head: The diameter of the cylindrical plugging head shall be slightly smaller than the bore of the Line Stop nozzle. The plugging head shall have a suitable circumferential gasket to seal against the shoulder in the Line stop nozzle. This gasket shall also seal against the sealing element to prevent bypass flow around the Line stop.

Deposits in Bore of Main: The semi-cylindrical bottom of the plugging head shall be designed to break and dislodge tuberculation and other deposits in the bore of the main which might interfere with a satisfactory Line stop.

**d.** Method of Construction.- Installation of proposed line stops mains will require work in close proximity to existing utilities. This must be taken into consideration when the contractor determines the required trench safety requirements. All excavation shall

conform to MIOSHA Standards; the Contractor is solely responsible for determining all excavation and trench safety requirements.

If necessary, The City will reduce the pressure to 100 psig or less for the duration of the installations. The entire operation of installing the line stop shall be accomplished without reduction of water pressure in the main(s) below 100 psig. It shall be the responsibility of the Contractor to verify pressure prior to commencing the installation.

Preliminary Field Inspection of Water Main:

Dimensional, specification, and other data regarding the existing mains have been taken from existing records. This information may be inaccurate, out of date, and/or inadequate. The data have not been verified by field inspections. Further, the water main consists of ductile iron pipe which may contain dimensional and structural flaws. In addition, the Contractor shall anticipate that exterior main conditions, bells, service connections, or presence of adjoining utilities may require relocation of proposed line stop. Prior to proceeding with the installation of any line stop, it is necessary to know the exact main outside diameter of the water main, if it has any ovality, and the internal diameter of the pipe before line stop fittings and plugging head sealing elements can be manufactured and/or ordered.

Prior to ordering material, Contractor shall excavate at each proposed location and carefully measure the outside diameter of the water main with calipers along at least four (4) locations to determine ovality and the critical outside diameter of the water main. The Contractor shall determine main wall thickness, uniformity, and structural integrity by means of ultrasonic testing. Data shall be taken to determine extent of internal deposits, tuberculation, etc.

If the Engineer determines that Contractor's data are not adequate, the Engineer may direct Contractor to make one or more pressure taps on main to obtain test pipe coupons for the Engineer's evaluation. The minimum size of the test coupon shall be 5" diameter, drilled through a nominal 6" valve. Pressure tapping saddles and other materials used for inspection taps shall conform to the requirements of this Special Provision. The Contractor shall anticipate that heavy interior corrosion and/or tuberculation exists within the water main.

If, in Engineer's opinion, the proposed location is unsatisfactory based on measurements of the existing pipe at the locations of the proposed line stops, the Engineer will direct excavation at another site. Excavating, de-watering, inspections, backfill, and restoration will be paid for separately in accordance with the applicable contract unit prices or Section 109.05.C and 109.05.D whichever the Engineer deems most appropriate.

Because of possible internal corrosion and deposits in existing water mains, a "bottle-

### WT:VCM

tight" shut down may not occur. A satisfactory shutdown which allows the work to be accomplished (i.e. valve replacement, water main tie-in, etc.) using drainage pumps to dewater excavations, with workmen wearing boots and raingear, if necessary, must be obtained. The Contractor will not be allowed to proceed with further work until an acceptable shutdown is achieved. The Contractor shall be aware that this may require the halting of work and re-scheduling of all work operations.

Contractor shall power wire brush and grind the exterior of the water main to remove any debris, corrosion deposits, or other surface irregularities that might interfere with proper seating and sealing of each line stop fitting against each main. Any structural defects in the water main, service connections, appurtenances, adjacent utilities, etc., that could interfere with the line stop installation shall be immediately reported to Engineer.

All line stop fittings and appurtenances shall be cleaned and disinfected in accordance with the current City of Ann Arbor Public Services Area Standard Specifications prior to bolting any of the line stop fittings in place or commencing any pipe cutting.

Contractor shall fit upper and lower saddle plate assemblies to main, thoroughly checking for proper fit to main. Under no circumstances shall Contractor attempt to force, reshape, or bend saddle plates by excessive tightening of saddle studs while the line stop fitting is assembled around the main. Any required retrofitting shall be accomplished with the fitting removed from the main. Any damage to fitting, accessories, or main shall be repaired at Contractor's expense to the satisfaction of Engineer.

Upper and Lower saddle halves shall be drawn together by bolt assemblies and the Saddle plates shall be bolted together in the horizontal position.

All line stop work shall be performed in accordance with the equipment manufacturers approved work procedures and installation guidelines.

Final closure of the water main shall be accomplished by insertion of a manufacturerapproved completion plug. The Contractor shall test the completion plug sealing through the use of a bleed off assembly in the machine housing.

The Contractor shall remove the temporary valve and the installation of a blind flange shall be completed.

The Contractor shall place polyethylene encasement meeting the requirements of the City of Ann Arbor Standard Specifications for Construction around the upper and lower saddle halves, the blind flange, and to a point at least 1 foot on either side of the saddle halves. All polyethylene encasement shall be securely taped to the water main such that water entry is minimized to the greatest extent possible.

### Lighting Requirements for Nighttime Water Main Work:

Night work shall be lighted to an average intensity of 108 lux minimum. Sufficient light sources shall be provided to achieve this illumination requirement. The lighting scheme shall be submitted to the Engineer for review and approval. Nighttime water main work will not be allowed to begin until such time as the lighting scheme has been approved by the Engineer.

The lighting shall allow the inspector to clearly see and inspect all work operations, including pipe, fitting, and valve installations, disinfection of the pipe, pipe cleaning, and all other night work.

Lighting systems may be fixed, portable, or equipment mounted. A power source shall be supplied with sufficient capacity to operate the lighting system. The lighting system(s) shall be arranged such that they do not interfere with the vision of motorists or unnecessarily illuminate surrounding properties or residences.

**e.** Measurement and Payment.- The completed work will be paid for at the contract unit prices for the following contract items (pay items):

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

### <u>Pay Unit</u>

Item 278: Line Stop, Ductile Iron Pipe, \_\_\_ inch...... Each Item 279: Line Stop, Additional Rental Day...... Each

All work shall be paid in full at the contract unit prices which shall include all the labor, materials, and equipment required to perform the work as detailed herein. This shall also include all required costs associated with night time work, supplemental lighting, and all other required elements of the work, including all traffic maintenance and control.

"Additional Rental Day" will be paid for each day after the first installation and day of use of a temporary water main line stop, regardless of size, until, in the opinion of the Engineer, the line stop is no longer needed.

Pavement removal, aggregate base course, bituminous pavement, and traffic control items as necessary to construct the line stop (as determined by the Engineer), shall be paid for separately as specified elsewhere; all other items shall be included in the pay item for the line stop.

General Decision Number: MI190001 01/25/2019 MI1

Superseded General Decision Number: MI20180001

State: Michigan

Construction Types: Highway (Highway, Airport & Bridge xxxxx and Sewer/Incid. to Hwy.)

Counties: Michigan Statewide.

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification	Number	Publication Dat	е
0		01/04/2019	
1		01/25/2019	

CARP0004-004 06/01/2018

REMAINDER OF STATE

Rates Fringes	Rates	Fringes
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CARPENTER ( Piledriver).....\$ 27.12 20.19

CARP0004-005 06/01/2018

LIVINGSTON (Townships of Brighton, Deerfield, Genoa, Hartland, Oceola & Tyrone), MACOMB, MONROE, OAKLAND, SANILAC, ST. CLAIR AND WAYNE COUNTIES

Rates Fringes

CARPENTER (Piledriver).....\$ 30.50

27.28

ELEC0017-005 06/04/2018

### STATEWIDE

	F	Rates	Fringes
Line	Construction Groundman/Driver\$ Journeyman Signal Tech, Communications Tech, Tower	28.33	6.45+29%
	Tech & Fiber Optic Splicers.\$ Journeyman Specialist\$ Operator A\$ Operator B\$	45.21 33.22	6.45+29% 6.45+29% 6.45+29% 6.45+29%

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### Classifications

Journeyman Specialist: Refers to a crew of only one person working alone. Operator A: Shall be proficient in operating all power equipment including: Backhoe, Excavator, Directional Bore and Boom/Digger truck. Operator B: Shall be proficient in operating any 2 of the above mentioned pieces of equipment listed under Operator A.

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### ENGI0324-003 06/01/2018

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LENAWEE, LIVINGSTON, MACOMB, MIDLAND, MONROE, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLAIR, SANILAC, SHIAWASSEE, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

		Rates	Fringes
OPERATOR: (Steel Ered	Power Equipment ction)		
GROUP	1\$	45.37	23.85
GROUP	2\$	46.37	23.85
GROUP	3\$	43.87	23.85
GROUP	4\$	44.87	23.85
GROUP	5\$	42.37	23.85
GROUP	6\$	43.37	23.85
GROUP	7\$	42.10	23.85
GROUP	8\$	43.10	23.85
GROUP	9\$	41.65	23.85
GROUP	10\$	42.65	23.85
GROUP	11\$	40.92	23.85
GROUP	12\$	41.92	23.85
GROUP	13\$	40.56	23.85
GROUP	14\$	41.56	23.85
GROUP	15\$	39.92	23.85
GROUP	16\$	37.82	23.85
GROUP	17\$	23.64	11.00

GROUP 18.....\$ 27.08 11.00

FOOTNOTE:

Paid Holidays: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Engineer when operating combination of boom and jib 400' or longer

GROUP 2: Engineer when operating combination of boom and jib 400' or longer on a crane that requires an oiler

GROUP 3: Engineer when operating combination of boom and jib 300' or longer

GROUP 4: Engineer when operating combination of boom and jib 300' or longer on a crane that requires an oiler

GROUP 5: Engineer when operating combination of boom and jib 220' or longer

GROUP 6: Engineer when operating combination of boom and jib 220' or longer on a crane that requires an oiler

GROUP 7: Engineer when operating combination of boom and jib 140' or longer

GROUP 8: Engineer when operating combination of boom and jib 140' or longer on a crane that requires an oiler

GROUP 9: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level)

GROUP 10: Tower crane & derrick operator (where operator's work station is 50 ft. or more above first sub-level) on a crane that requires an oiler

GROUP 11: Engineer when operating combination of boom and jib 120' or longer

GROUP 12: Engineer when operating combination of boom and jib 120' or longer on a crane that requires an oiler

GROUP 13: Crane operator; job mechanic and 3 drum hoist and excavator

GROUP 14: Crane operator on a crane that requires an oiler

GROUP 15: Hoisting operator; 2 drum hoist and rubber tired backhoe

GROUP 16: Forklift and 1 drum hoist

GROUP 17: Compressor or welder operator

GROUP 18: Oiler

### ENGI0324-004 06/01/2018

AREA 1: ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, EATON, HILLSDALE, IONIA, KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, VAN BUREN

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AREA 2: ANTRIM, BENZIE, CHARLEVOIX, EMMET, GRAND TRAVERSE, KALKASKA, LEELANAU, MISSAUKEE AND WEXFORD COUNTIES:

		R	Rates	Fringes
OPERATOR: E (Steel Erect AREA 1	Power Equipment tion)			
GROUP GROUP GROUP GROUP GROUP	1 2 3 4 5 6	\$ • • • • • \$ • • • • • \$	42.10 40.56 37.82 23.64	23.85 23.85 23.85 23.85 11.00 11.00
GROUP GROUP GROUP GROUP	1 2 3 4 5 6	\$ \$ \$	42.10 40.56 37.82 23.64	23.85 23.85 23.85 23.85 11.00 11.00

### FOOTNOTES:

Crane operator with main boom and jib 300' or longer: \$1.50 additional to the group 1 rate. Crane operator with main boom and jib 400' or longer: \$3.00 additional to the group 1 rate. PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS:

GROUP 1: Crane Operator with main boom & jib 400', 300', or 220' or longer.

GROUP 2: Crane Operator with main boom & jib 140' or longer, Tower Crane; Gantry Crane; Whirley Derrick.

GROUP 3: Regular Equipment Operator, Crane, Dozer, Loader, Hoist, Straddle Wagon, Mechanic, Grader and Hydro Excavator.

GROUP 4: Air Tugger (single drum), Material Hoist Pump 6" or over, Elevators, Brokk Concrete Breaker.

GROUP 5: Air Compressor, Welder, Generators, Conveyors

GROUP 6: Oiler and fire tender

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ENGI0324-005 09/01/2018

AREA 1: GENESEE, LAPEER, LIVINGSTON, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALCONA, ALLEGAN, ALGER, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KWEENAW, LAKE, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

Rates Fringes OPERATOR: Power Equipment (Underground construction (including sewer)) AREA 1: GROUP 1.....\$ 32.53 23.85 GROUP 2.....\$ 27.80 23.85 GROUP 3....\$ 27.07 23.85 GROUP 4....\$ 26.50 23.85 AREA 2: GROUP 1.....\$ 30.82 23.85 GROUP 2.....\$ 25.93 23.85 GROUP 3.....\$ 25.43 23.85 GROUP 4....\$ 25.15 23.85

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backfiller tamper; Backhoe; Batch plant operator (concrete); Clamshell; Concrete paver (2 drums or larger); Conveyor loader (Euclid type); Crane (crawler, truck type or pile driving); Dozer; Dragline; Elevating grader; Endloader; Gradall (and similar type machine); Grader; Mechanic; Power shovel; Roller (asphalt); Scraper (self-propelled or tractor drawn); Side boom tractor (type D-4 or equivalent and larger); Slip form paver; Slope paver; Trencher (over 8 ft. digging capacity); Well drilling rig; Concrete pump with boom operator; Hydro Excavator

GROUP 2: Boom truck (power swing type boom); Crusher; Hoist; Pump (1 or more - 6-in. discharge or larger - gas or diesel- powered or powered by generator of 300 amperes or more - inclusive of generator); Side boom tractor (smaller than type D-4 or equivalent); Tractor (pneu-tired, other than backhoe or front end loader); Trencher (8-ft. digging capacity and smaller);Vac Truck

GROUP 3: Air compressors (600 cfm or larger); Air compressors (2 or more-less than 600 cfm); Boom truck (non-swinging, non- powered type boom); Concrete breaker (self-propelled or truck mounted - includes compressor); Concrete paver (1

drum-1/2 yd. or larger); Elevator (other than passenger); Maintenance person; Pump (2 or more-4-in. up to 6-in. discharge-gas or diesel powered - excluding submersible pumps); Pumpcrete machine (and similar equipment); Wagon drill (multiple); Welding machine or generator (2 or more-300 amp. or larger - gas or diesel powered)

GROUP 4: Boiler; Concrete saw (40 hp or over); Curing machine (self-propelled); Farm tractor (with attachment); Finishing machine (concrete); Fire person; Hydraulic pipe pushing machine; Mulching equipment; Oiler; Pumps (2 or more up to 4-in. discharge, if used 3 hours or more a day, gas or diesel powered - excluding submersible pumps); Roller (other than asphalt); Stump remover; Trencher (service); Vibrating compaction equipment, self-propelled (6 ft. wide or over); End dump operator; Sweeper (Wayne type); Water wagon and Extend-a boom forklift

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### ENGI0324-006 06/01/2018

AREA 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Ι	Rates	Fringes
Power equipment (AIRPORT, BRID CONSTRUCTION) AREA 1	-		
GROUP 2. GROUP 3. GROUP 4.	\$ 	26.63 27.93 25.90	23.90 23.90 23.90 23.90 23.90 11.00
GROUP 2. GROUP 3. GROUP 4.	\$ 	26.63 27.93 25.90	23.90 23.90 23.90 23.90 11.00

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt plant operator; Crane operator (does not include work on bridge construction projects when the crane operator is erecting structural components); Dragline

operator; Shovel operator; Locomotive operator; Paver operator (5 bags or more); Elevating grader operator; Pile driving operator; Roller operator (asphalt); Blade grader operator; Trenching machine operator (ladder or wheel type); Auto-grader; Slip form paver; Self-propelled or tractor-drawn scraper; Conveyor loader operator (Euclid type); Endloader operator (1 yd. capacity and over); Bulldozer; Hoisting engineer; Tractor operator; Finishing machine operator (asphalt); Mechanic; Pump operator (6-in. discharge or over, gas, diesel powered or generator of 300 amp. or larger); Shouldering or gravel distributing machine operator (self- propelled); Backhoe (with over 3/8 yd. bucket); Side boom tractor (type D-4 or equivalent or larger); Tube finisher (slip form paving); Gradall (and similar type machine); Asphalt paver (self- propelled); Asphalt planer (self-propelled); Batch plant (concrete-central mix); Slurry machine (asphalt); Concrete pump (3 in. and over); Roto-mill; Swinging boom truck (over 12 ton capacity); Hydro demolisher (water blaster); Farm-type tractor with attached pan

GROUP 2: Screening plant operator; Washing plant operator; Crusher operator; Backhoe (with 3/8 yd. bucket or less); Side boom tractor (smaller than D-4 type or equivalent); Sweeper (Wayne type and similar equipment); Vacuum truck operator; Batch plant (concrete dry batch)

GROUP 3: Grease Truck

GROUP 4: Air compressor operator (600 cu. ft. per min or more); Air compressor operator (two or more, less than 600 cfm); Wagon drill operator; Concrete breaker; Tractor operator (farm type with attachment)

GROUP 5: Boiler fire tender; Oiler; Fire tender; Trencher (service); Flexplane operator; Cleftplane operator; Grader operator (self-propelled fine-grade or form (concrete)); Finishing machine operator (concrete); Boom or winch hoist truck operator; Endloader operator (under 1 yd. capacity); Roller operator (other than asphalt); Curing equipment operator (self-propelled); Concrete saw operator (40 h.p. or over); Power bin operator; Plant drier operator (asphalt); Vibratory compaction equipment operator (6 ft. wide or over); Guard post driver operator (power driven); All mulching equipment; Stump remover; Concrete pump (under 3-in.); Mesh installer (self- propelled); Tractor operator (farm type); End dump; Skid steer

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ENGI0324-007 05/01/2018

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

Rates Fringes

OPERATOR: Power Equipment (Steel Erection)

Compressor, welder and		
forklift\$	29.58	23.60
Crane operator, main boom		
& jib 120' or longer\$	35.57	23.60
Crane operator, main boom		
& jib 140' or longer\$	35.85	23.60
Crane operator, main boom		
& jib 220' or longer\$	36.39	23.60
Mechanic with truck and		
tools\$	34.76	23.60
Oiler and fireman\$	28.16	23.60
Regular operator\$	33.12	23.60

ENGI0324-008 10/01/2015

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ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE, MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

Rates Fringes

OPERATOR: Powe	r Equipment		
(Sewer Relining	)		
GROUP 1	\$	30.70	12.93
GROUP 2	\$	29.17	12.93

SEWER RELINING CLASSIFICATIONS

GROUP 1: Operation of audio-visual closed circuit TV system, including remote in-ground cutter and other equipment used in connection with the CCTV system

GROUP 2: Operation of hot water heaters and circulation systems, water jetters and vacuum and mechanical debris removal systems

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\* ENGI0325-012 05/01/2018

Rates

Fringes

Power equipment operators - gas distribution and duct		
installation work:		
GROUP 1\$	30.68	23.85
GROUP 2\$	30.56	23.85
GROUP 3\$	28.85	23.85
SCOPE OF WORK: The construction,	installation,	treating and

reconditioning of pipelines transporting gas vapors within cities, towns, subdivisions, suburban areas, or within private property boundaries, up to and including private meter settings of private industrial, governmental or other premises, more commonly referred to as "distribution work," starting from the first metering station, connection, similar or related facility, of the main or cross country pipeline and including duct installation.

Group 1: Backhoe, crane, grader, mechanic, dozer (D-6 equivalent or larger), side boom (D-4 equivalent or larger), trencher(except service), endloader (2 yd. capacity or greater).

GROUP 2: Dozer (less than D-6 equivalent), endloader (under 2 yd. capacity), side boom (under D-4 capacity), backfiller, pumps (1 or 2 of 6-inch discharge or greater), boom truck (with powered boom), tractor (wheel type other than backhoe or front endloader). Tamper (self-propelled), boom truck (with non-powered boom), concrete saw (20 hp or larger), pumps (2 to 4 under 6-inch discharge), compressor (2 or more or when one is used continuously into the second day) and trencher(service).

GROUP 3: Oiler, hydraulic pipe pushing machine, grease person and hydrostatic testing operator.

IRON0008-007 06/01/2017

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

	Rates	Fringes
Ironworker - pre-engineered metal building erector IRONWORKER	\$ 23.70	6.95
General contracts \$10,000,000 or greater General contracts less	\$ 30.17	26.40
than \$10,000,000	\$ 30.17	26.40

Paid Holidays: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day & Christmas Day.

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IRON0025-002 06/01/2018

ALCONA, ALPENA, ARENAC, BAY, CHEBOYGAN, CLARE, CLINTON, CRAWFORD, GENESEE, GLADWIN, GRATIOT, HURON, INGHAM, IOSCO, ISABELLA, JACKSON, LAPEER, LIVINGSTON, MACOMB, MIDLAND, MONTMORENCY, OAKLAND, OGEMAW, OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, TUSCOLA, WASHTENAW AND WAYNE COUNTIES:

Rates Fringes

Ironworker - pre-engineered metal building erector Alcona, Alpena, Arenac, Cheboygan, Clare, Clinton, Crawford, Gladwin, Gratiot, Huron, Ingham, Iosco, Isabella, Jackson, Lapeer, Livingston (west of Burkhardt Road), Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon, Sanilac, Shiawassee, Tuscola & Washtenaw (west of U.S. 23).\$ 24.26 22.11 Bay, Genesee, Lapeer, Livingston (east of Burkhardt Road), Macomb, Midland, Oakland, Saginaw, St. Clair, The University of Michigan, Washtenaw (east of U.S. 23) & Wayne...\$ 25.48 23.11 IRONWORKER Ornamental and Structural...\$ 35.52 28.65 Reinforcing.....\$ 29.48 27.74 \_\_\_\_\_ IRON0055-005 07/01/2017 LENAWEE AND MONROE COUNTIES: Rates Fringes IRONWORKER Pre-engineered metal 19.35 buildings.....\$ 23.59 All other work.....\$ 29.77 \_\_\_\_\_ IRON0292-003 06/01/2017 BERRIEN AND CASS COUNTIES: Rates Fringes IRONWORKER (Including pre-engineered metal building erector)....\$ 29.30 20.96 \_\_\_\_\_ IRON0340-001 06/19/2017 ALLEGAN, ANTRIM, BARRY, BENZIE, BRANCH, CALHOUN, CHARLEVOIX, EATON, EMMET, GRAND TRAVERSE, HILLSDALE, IONIA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH, VAN BUREN AND WEXFORD COUNTIES:

Rates Fringes

IRONWORKER (Including pre-engineered metal building

erector).....\$ 24.43 24.67 \_\_\_\_\_ LABO0005-006 10/01/2017 Rates Fringes Laborers - hazardous waste abatement: (ALCONA, ALPENA, ANTRIM, BENZIE, CHARLEVOIX, CHEBOYGAN, CRAWFORD, EMMET, GRAND TRAVERSE, IOSCO, KALKASKA, LEELANAU, MISSAUKEE, MONTMORENCY, OSCODA, OTSEGO, PRESQUE ISLE AND WEXFORD COUNTIES - Zone 10) Levels A, B or C.....\$ 17.45 12.75 12.85 class b.....\$ 18.00 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 16.45 class a.....\$ 17.00 12.75 12.85 Zone 10 Laborers - hazardous waste abatement: (ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES - Zone 11) Levels A, B or C.....\$ 21.63 12.88 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 20.63 12.88 Laborers - hazardous waste abatement: (ALLEGAN, BARRY, BERRIEN, BRANCH, CALHOUN, CASS, IONIA COUNTY (except the city of Portland); KALAMAZOO, KENT, LAKE, MANISTEE, MASON, MECOSTA, MONTCALM, MUSKEGON, NEWAYGO, OCEANA, OSCEOLA, OTTAWA, ST. JOSEPH AND VAN BUREN COUNTIES - Zone 9) Levels A, B or C.....\$ 20.95 12.85 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 19.95 12.85 Laborers - hazardous waste

abatement: (ARENAC, BAY, CLARE, GLADWIN, GRATIOT, HURON, ISABELLA, MIDLAND, OGEMAW, ROSCOMMON, SAGINAW AND TUSCOLA COUNTIES - Zone 8) 12.85 Levels A, B or C.....\$ 20.65 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 19.65 12.85 Laborers - hazardous waste abatement: (CLINTON, EATON AND INGHAM COUNTIES; IONIA COUNTY (City of Portland); LIVINGSTON COUNTY (west of Oak Grove Rd., including the City of Howell) - Zone 6) Levels A, B or C.....\$ 24.65 12.85 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 23.65 12.85 Laborers - hazardous waste abatement: (GENESEE, LAPEER AND SHIAWASSEE COUNTIES -Zone 7) 13.41 Levels A, B or C.....\$ 23.61 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 22.61 13.41 Laborers - hazardous waste abatement: (HILLSDALE, JACKSON AND LENAWEE COUNTIES - Zone 4) Levels A, B or C.....\$ 24.19 12.85 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 23.19 12.85 Laborers - hazardous waste abatement: (LIVINGSTON COUNTY (east of Oak Grove Rd. and south of M-59, excluding the city of Howell); AND WASHTENAW COUNTY - Zone 3) Levels A, B or C.....\$ 29.70 14.20 Work performed in conjunction with site preparation not requiring the use of personal protective equipment;

Also, Level D.....\$ 28.70 14.20 Laborers - hazardous waste abatement: (MACOMB AND WAYNE COUNTIES - Zone 1) Levels A, B or C.....\$ 28.35 16.75 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 27.35 16.75 Laborers - hazardous waste abatement: (MONROE COUNTY -Zone 4) Levels A, B or C.....\$ 30.85 14.45 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 29.84 14.45 Laborers - hazardous waste abatement: (OAKLAND COUNTY and the Northeast portion of LIVINGSTON COUNTY bordered by Oak Grove Road on the West and M-59 on the South - Zone 2) Level A, B, C.....\$ 28.85 16.75 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 27.85 16.75 Laborers - hazardous waste abatement: (SANILAC AND ST. CLAIR COUNTIES - Zone 5) Levels A, B or C.....\$ 25.19 15.86 Work performed in conjunction with site preparation not requiring the use of personal protective equipment; Also, Level D.....\$ 24.19 15.86 \_\_\_\_\_

LABO0259-001 09/01/2018

AREA 1: MACOMB, OAKLAND AND WAYNE COUNTIES AREA 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONROE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW AND WEXFORD COUNTIES

	I	Rates	Fringes
Laborers - tunnel caisson:	shaft and		
AREA 1			
GROUP 1	\$	22.57	16.80
GROUP 2	\$	22.68	16.80
GROUP 3	\$	22.74	16.80
GROUP 4	\$	22.92	16.80
GROUP 5		23.17	16.80
GROUP 6	\$	23.50	16.80
			16.80
AREA 2			
GROUP 1	\$	24.10	12.85
GROUP 2	\$	24.19	12.85
			12.85
GROUP 4	\$	24.45	12.85
			12.85
	\$		12.85
	\$		12.85

SCOPE OF WORK: Tunnel, shaft and caisson work of every type and description and all operations incidental thereto, including, but not limited to, shafts and tunnels for sewers, water, subways, transportation, diversion, sewerage, caverns, shelters, aquafers, reservoirs, missile silos and steel sheeting for underground construction.

### TUNNEL LABORER CLASSIFICATIONS

GROUP 1: Tunnel, shaft and caisson laborer, dump, shanty, hog house tender, testing (on gas) and watchman

GROUP 2: Manhole, headwall, catch basin builder, bricklayer tender, mortar machine and material mixer

GROUP 3: Air tool operator (jackhammer, bush hammer and grinder), first bottom, second bottom, cage tender, car pusher, carrier, concrete, concrete form, concrete repair, cement invert laborer, cement finisher, concrete shoveler, conveyor, floor, gasoline and electric tool operator, gunite, grout operator, welder, heading dinky person, inside lock tender, pea gravel operator, pump, outside lock tender, scaffold, top signal person, switch person, track, tugger, utility person, vibrator, winch operator, pipe jacking, wagon drill and air track operator and concrete saw operator (under 40 h.p.)

GROUP 4: Tunnel, shaft and caisson mucker, bracer, liner plate, long haul dinky driver and well point

GROUP 5: Tunnel, shaft and caisson miner, drill runner, key board operator, power knife operator, reinforced steel or mesh (e.g. wire mesh, steel mats, dowel bars, etc.)

GROUP 6: Dynamite and powder

cutting, mulching and top soil of property such as replacing planter boxes, flagstones, etc	grading; an mailboxes, w	
LABO0334-001 09/01/2018		
LABO0334-001 03/01/2018		
	Rates	Fringes
Laborers - open cut:		
ZONE 1 - MACOMB, OAKLAND		
AND WAYNE COUNTIES:		
GROUP 1	.\$ 22.42	16.80
GROUP 2	.\$ 22.53	16.80
GROUP 3		16.80
GROUP 4		16.80
GROUP 5		16.80
GROUP 6		16.80
GROUP 7	.\$ 16.79	16.80
ZONE 2 - LIVINGSTON COUNTY		
(east of M-151 (Oak Grove		
Rd.)); MONROE AND		
WASHTENAW COUNTIES: GROUP 1	¢ 00 75	12.85
GROUP 2		12.85
GROUP 3	•	12.85
GROUP 4		12.85
GROUP 5		12.85
GROUP 6		12.85
GROUP 7		12.85
ZONE 3 - CLINTON, EATON,		
GENESEE, HILLSDALE AND		
INGHAM COUNTIES; IONIA		
COUNTY (City of Portland);		
JACKSON, LAPEER AND		
LENAWEE COUNTIES;		
LIVINGSTON COUNTY (west of		
M-151 Oak Grove Rd.);		
SANILAC, ST. CLAIR AND		
SHIAWASSEE COUNTIES:		
GROUP 1		12.85
GROUP 2		12.85
GROUP 3		12.85
GROUP 4		12.85
GROUP 5		12.85
GROUP 6		12.85 12.85
GROUP 7	. 7 10.84	12.85
ZONE 4 - ALCONA, ALLEGAN, ALPENA, ANTRIM, ARENAC,		
BARRY, BAY, BENZIE,		
BERRIEN, BRANCH,		
CALHOUN, CASS, CHARLEVOIX,		
CHEBOYGAN, CLARE,		
CRAWFORD, EMMET,		
GLADWIN, GRAND TRAVERSE,		
GRATIOT AND HURON		
COUNTIES; IONIA COUNTY		
(EXCEPT THE CITY OF		

GROUP 7: Restoration laborer, seeding, sodding, planting,

PORTLAND); IOSCO, ISABELLA, KALAMAZOO, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES: 12.85 GROUP 1.....\$ 20.97 12.85 GROUP 2.....\$ 21.10 GROUP 3.....\$ 21.21 12.85 GROUP 4.....\$ 21.28 12.85 GROUP 5.....\$ 21.40 12.85 12.85 GROUP 6.....\$ 18.62 GROUP 7.....\$ 16.96 12.85 ZONE 5 - ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES: 12.85 GROUP 1.....\$ 21.19 GROUP 2....\$ 21.33 12.85 GROUP 3.....\$ 21.46 12.85 GROUP 4.....\$ 21.51 12.85 GROUP 5.....\$ 21.56 12.85 GROUP 6.....\$ 18.94 12.85 GROUP 7.....\$ 17.05 12.85

#### SCOPE OF WORK:

Open cut construction work shall be construed to mean work which requires the excavation of earth including industrial, commercial and residential building site excavation and preparation, land balancing, demolition and removal of concrete and underground appurtenances, grading, paving, sewers, utilities and improvements; retention, oxidation, flocculation and irrigation facilities, and also including but not limited to underground piping, conduits, steel sheeting for underground construction, and all work incidental thereto, and general excavation. For all areas except the Upper Peninsula, open cut construction work shall also be construed to mean waterfront work, piers, docks, seawalls, breakwalls, marinas and all incidental work. Open cut construction work shall not include any structural modifications, alterations, additions and repairs to buildings, or highway work, including roads, streets, bridge construction and parking lots or steel erection work and excavation for the building itself and back filling inside of and within 5 ft. of the building and foundations, footings and piers for the building. Open cut construction work shall not include any work covered under Tunnel, Shaft and Caisson work.

#### OPEN CUT LABORER CLASSIFICATIONS

GROUP 1: Construction laborer

GROUP 2: Mortar and material mixer, concrete form person, signal person, well point person, manhole, headwall and catch basin builder, headwall, seawall, breakwall and dock builder

GROUP 3: Air, gasoline and electric tool operator, vibrator operator, driller, pump person, tar kettle operator, bracer, rodder, reinforced steel or mesh person (e.g., wire mesh, steel mats, dowel bars, etc.), welder, pipe jacking and boring person, wagon drill and air track operator and concrete saw operator (under 40 h.p.), windlass and tugger person and directional boring person

GROUP 4: Trench or excavating grade person

GROUP 5: Pipe layer (including crock, metal pipe, multi-plate or other conduits)

GROUP 6: Grouting man, audio-visual television operations and all other operations in connection with closed circuit television inspection, pipe cleaning and pipe relining work and the installation and repair of water service pipe and appurtenances

GROUP 7: Restoration laborer, seeding, sodding, planting, cutting, mulching and top soil grading; and the restoration of property such as replacing mailboxes, wood chips, planter boxes, flagstones, etc.

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### LABO0465-001 06/01/2018

LABORER: Highway, Bridge and Airport Construction

AREA 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

AREA 2: ALLEGAN, BARRY, BAY, BERRIEN, BRANCH, CALHOUN, CASS, CLINTON, EATON, GRATIOT, HILLSDALE, HURON, INGHAM, JACKSON, KALAMAZOO, LAPEER, LENAWEE, LIVINGSTON, MIDLAND, MUSKEGON, SAGINAW, SANILAC, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA AND VAN BUREN COUNTIES

AREA 3: ALCONA, ALPENA, ANTRIM, ARENAC, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, IONIA, IOSCO, ISABELLA, KALKASKA, KENT, LAKE, LEELANAU, MANISTEE, MASON, MECOSTA, MISSAUKEE, MONTCALM, MONTMORENCY, NEWAYGO, OCEANA, OGEMAW, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON AND WEXFORD COUNTIES

AREA 4: ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES

LABORER (AREA 1)		
GROUP 1\$	26.12	12.85
GROUP 2\$		12.85
GROUP 3\$		12.85
GROUP 4\$		12.85
GROUP 5\$		12.85
GROUP 6\$		12.85
LABORER (AREA 2)	27.02	12.00
GROUP 1\$	24 02	12.85
GROUP 2\$		12.85
GROUP 3\$		12.85
GROUP 4\$		12.85
GROUP 5\$		12.85
GROUP 5\$ GROUP 6\$		12.85
LABORER (AREA 3)	25.02	12.00
/	00.07	10 05
GROUP 1\$		12.85
GROUP 2\$		12.85
GROUP 3\$		12.85
GROUP 4\$		12.85
GROUP 5\$		12.85
GROUP 6\$	24.26	12.85
LABORER (AREA 4)		
GROUP 1\$		12.85
GROUP 2\$	23.53	12.85
GROUP 3\$	23.82	12.85
GROUP 4\$	24.26	12.85
GROUP 5\$	23.88	12.85
GROUP 6\$	24.31	12.85

Rates

Fringes

#### LABORER CLASSIFICATIONS

GROUP 1: Asphalt shoveler or loader; asphalt plant misc.; burlap person; yard person; dumper (wagon, truck, etc.); joint filling laborer; miscellaneous laborer; unskilled laborer; sprinkler laborer; form setting laborer; form stripper; pavement reinforcing; handling and placing (e.g., wire mesh, steel mats, dowel bars); mason's tender or bricklayer's tender on manholes; manhole builder; headwalls, etc.; waterproofing, (other than buildings) seal coating and slurry mix, shoring, underpinning; pressure grouting; bridge pin and hanger removal; material recycling laborer; horizontal paver laborer (brick, concrete, clay, stone and asphalt); ground stabilization and modification laborer; grouting; waterblasting; top person; railroad track and trestle laborer; carpenters' tender; guard rail builders' tender; earth retention barrier and wall and M.S.E. wall installer's tender; highway and median installer's tender(including sound, retaining, and crash barriers); fence erector's tender; asphalt raker tender; sign installer; remote control operated equipment.

GROUP 2: Mixer operator (less than 5 sacks); air or electric tool operator (jackhammer, etc.); spreader; boxperson (asphalt, stone, gravel); concrete paddler; power chain saw operator; paving batch truck dumper; tunnel mucker (highway work only); concrete saw (under 40 h.p.) and dry pack machine; roto-mill grounds person.

GROUP 3: Tunnel miner (highway work only); finishers tenders; guard rail builders; highway and median barrier installer; earth retention barrier and wall and M.S.E. wall installer's (including sound, retaining and crash barriers); fence erector; bottom person; powder person; wagon drill and air track operator; diamond and core drills; grade checker; certified welders; curb and side rail setter's tender.

GROUP 4: Asphalt raker

GROUP 5: Pipe layers, oxy-gun

GROUP 6: Line-form setter for curb or pavement; asphalt screed checker/screw man on asphalt paving machines.

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LABO1076-005 04/01/2018

MICHIGAN STATEWIDE

	Rates	Fringes
LABORER (DISTRIBUTION WORK)		
Zone 1	\$ 20.27	12.85
Zone 2	\$ 18.59	12.85
Zone 3	\$ 16.76	12.85
Zone 4	\$ 16.12	12.85
Zone 5	\$ 16.12	12.85

DISTRIBUTION WORK - The construction, installation, treating and reconditioning of distribution pipelines transporting coal, oil, gas or other similar materials, vapors or liquids, including pipelines within private property boundaries, up to and including the meter settings on residential, commercial, industrial, institutional, private and public structures. All work covering pumping stations and tank farms not covered by the Building Trades Agreement. Other distribution lines with the exception of sewer, water and cable television are included.

Underground Duct Layer Pay: \$.40 per hour above the base pay rate.

Zone 1 - Macomb, Oakland and Wayne Zone 2 - Monroe and Washtenaw Zone 3 - Bay, Genesee, Lapeer, Midland, Saginaw, Sanilac, Shiawassee and St. Clair Zone 4 - Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon and Schoolcraft Zone 5 - Remaining Counties in Michigan

PAIN0022-002 07/01/2008

HILLSDALE, JACKSON AND LENAWEE COUNTIES; LIVINGSTON COUNTY (east of the eastern city limits of Howell, not including the city of Howell, north to the Genesee County line and south to the Washtenaw County line); MACOMB, MONROE, OAKLAND, WASHTENAW

Rates	Fringes

## PAINTER.....\$ 25.06 14.75

FOOTNOTES: For all spray work and journeyman rigging for spray work, also blowing off, \$0.80 per hour additional (applies only to workers doing rigging for spray work on off the floor work. Does not include setting up or moving rigging on floor surfaces, nor does it apply to workers engaged in covering up or tending spray equipment. For all sandblasting and spray work performed on highway bridges, overpasses, tanks or steel, \$0.80 per hour additional. For all brushing, cleaning and other preparatory work (other than spraying or steeplejack work) at scaffold heights of fifty (50) feet from the ground or higher, \$0.50 per hour additional. For all preparatorial work and painting performed on open steel under forty (40) feet when no scaffolding is involved, \$0.50 per hour additional. For all swing stage work-window jacks and window belts-exterior and interior, \$0.50 per hour additional. For all spray work and sandblaster work to a scaffold height of forty (40) feet above the floor level, \$0.80 per hour additional. For all preparatorial work and painting on all highway bridges or overpasses up to forty (40) feet in height, \$0.50 per hour additional. For all steeplejack work performed where the elevation is forty (40) feet or more, \$1.25 per hour additional.

### PAIN0312-001 06/01/2018

EXCLUDES: ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); INCLUDES: Barry, Berrien, Branch, Calhoun, Cass, Hillsdale, Kalamazoo, St. Joseph, Van Buren

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	Rates	Fringes	
PAINTER			
Brush and roller	\$ 23.74	13.35	
Spray, Sandblast, Sign			
Painting	\$ 24.94	13.35	

PAIN0845-003 05/10/2018

CLINTON COUNTY; EATON COUNTY (does not include the townships of Bellevue and Olivet); INGHAM COUNTY; IONIA COUNTY (east of Hwy. M 66); LIVINGSTON COUNTY (west of the eastern city limits of Howell, including the city of Howell, north to the Genesee County line and south to the Washtenaw County line); AND SHIAWASSEE COUNTY (Townships of Bennington, Laingsbury and Perry):

Rates Fringes

PAINTER.....\$ 25.49 13.74 PAIN0845-015 05/10/2018

MUSKEGON COUNTY; NEWAYGO COUNTY (except the Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OCEANA COUNTY; OTTAWA COUNTY (except the townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER	\$ 25.49	13.74
PAIN0845-018 05/10/2018		

ALLEGAN COUNTY (Townships of Dorr, Fillmore, Heath, Hopkins, Laketown, Leighton, Manlius, Monterey, Overisel, Salem, Saugatuck and Wayland); IONIA COUNTY (west of Hwy. M-66); KENT, MECOSTA AND MONTCALM COUNTIES; NEWAYGO COUNTY (Townships of Barton, Big Prairie, Brooks, Croton, Ensley, Everett, Goodwell, Grant, Home, Monroe, Norwich and Wilcox); OSCEOLA COUNTY (south of Hwy. #10); OTTAWA COUNTY (Townships of Allendale, Blendone, Chester, Georgetown, Holland, Jamestown, Olive, Park, Polkton, Port Sheldon, Tallmadge, Wright and Zeeland):

	Rates	Fringes
PAINTER	.\$ 25.49	13.74
FOOTNOTES: Lead abatement work:	\$1.00 per hour a	dditional.

PAIN1011-003 06/03/2018

ALGER, BARAGA, CHIPPEWA, DELTA, DICKINSON, GOGEBIC, HOUGHTON, IRON, KEWEENAW, LUCE, MACKINAC, MARQUETTE, MENOMINEE, ONTONAGON AND SCHOOLCRAFT COUNTIES:

Rates Fringes

PAINTER.....\$ 25.31 12.78

FOOTNOTES: High pay (bridges, overpasses, watertower): 30 to 80 ft.: \$.65 per hour additional. 80 ft. and over: \$1.30 per hour additional.

PAIN1474-002 06/01/2010

HURON COUNTY; LAPEER COUNTY (east of Hwy. M-53); ST. CLAIR, SANILAC AND TUSCOLA COUNTIES:

Rates Fringes

PAINTER.....\$ 23.79

12.02

FOOTNOTES: Lead abatement work: \$1.00 per hour additional. Work with any hazardous material: \$1.00 per hour additional. Sandblasting, steam cleaning and acid cleaning: \$1.00 per hour additional. Ladder work at or above 40 ft., scaffold work at or above 40 ft., swing stage, boatswain chair, window jacks and all work performed over a falling height of 40 ft.: \$1.00 per hour additional. Spray gun work, pick pullers and those handling needles, blowing off by air pressure, and any person rigging (setting up and moving off the ground): \$1.00 per hour additional. Steeplejack, tanks, gas holders, stacks, flag poles, radio towers and beacons, power line towers, bridges, etc.: \$1.00 per hour additional, paid from the ground up.

# PAIN1803-003 06/01/2018

ALCONA, ALPENA, ANTRIM, ARENAC, BAY, BENZIE, CHARLEVOIX, CHEBOYGAN, CLARE, CRAWFORD, EMMET, GLADWIN, GRAND TRAVERSE, GRATIOT, IOSCO, ISABELLA, KALKASKA, LAKE, LEELANAU, MANISTEE, MASON, MIDLAND, MISSAUKEE, MONTMORENCY AND OGEMAW COUNTIES; OSCEOLA COUNTY (north of Hwy. #10); OSCODA, OTSEGO, PRESQUE ISLE, ROSCOMMON, SAGINAW AND WEXFORD COUNTIES:

Rates Fringes

PAINTER

Work performed on water, bridges over water or moving traffic, radio and powerline towers, elevated tanks, steeples, smoke stacks over 40 ft. of falling heights, recovery of lead-based paints and any work associated with industrial plants, except maintenance of industrial plants.....\$ 24.92 14.68 All other work, including

All other work, including maintenance of industrial plant.....\$ 24.92 14.68

FOOTNOTES: Spray painting, sandblasting, blowdown associated with spraying and blasting, water blasting and work involving a swing stage, boatswain chair or spider: \$1.00 per hour additional. All work performed inside tanks, vessels, tank trailers, railroad cars, sewers, smoke stacks, boilers or other spaces having limited egress not including buildings, opentop tanks, pits, etc.: \$1.25 per hour additional.

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PLAS0514-001 06/01/2018

ZONE 1: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, SAGINAW,

#### WASHTENAW AND WAYNE COUNTIES

ZONE 2: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
ZONE 1	\$ 31.47	13.81
ZONE 2	\$ 29.97	13.81
PLUM0190-003 05/01/2015		

ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GENESEE, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LIVINGSTON, LUCE, MACKINAC, MACOMB, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MONROE, MUSKEGON, NEWAYGO, OAKLAND, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SAGINAW, ST. CLARE, ST. JOSEPH, SANILAC, SCHOOLCRAFT, SHIAWASSEE, TUSCOLA, VAN BUREN, WASHTENAW, WAYNE AND WEXFORD COUNTIES

Rates Fringes
Plumber/Pipefitter - gas
distribution pipeline:
Welding in conjunction
with gas distribution
pipeline work.....\$ 33.03 20.19
All other work:....\$ 24.19 12.28

TEAM0007-004 06/01/2018

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE,

ROSCOMMON, SAGINAW, SANILAC, SCHOOLCRAFT, SHIAWASSEE, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

I	Rates	Fringes
TRUCK DRIVER		
AREA 1		
Euclids, double bottoms		
and lowboys\$		.50 + a+b
Trucks under 8 cu. yds\$ Trucks, 8 cu. yds. and	26.30	.50 + a+b
over\$	26.40	.50 + a+b
AREA 2		
Euclids, double bottomms		
and lowboys\$	24.895	.50 + a+b
Euclids, double bottoms		
and lowboys\$	26.65	.50 + a+b
Trucks under 8 cu. yds\$	26.40	.50 + a+b
Trucks, 8 cu. yds. and		
over\$	26.50	.50 + a+b
Footnote:		
a. \$446.70 per week		
b. \$67.00 daily		
TEAM0247-004 04/01/2013		

AREA 1: ALCONA, ALGER, ALLEGAN, ALPENA, ANTRIM, ARENAC, BARAGA, BARRY, BAY, BENZIE, BERRIEN, BRANCH, CALHOUN, CASS, CHARLEVOIX, CHEBOYGAN, CHIPPEWA, CLARE, CLINTON, CRAWFORD, DELTA, DICKINSON, EATON, EMMET, GLADWIN, GOGEBIC, GRAND TRAVERSE, GRATIOT, HILLSDALE, HOUGHTON, HURON, INGHAM, IONIA, IOSCO, IRON, ISABELLA, JACKSON, KALAMAZOO, KALKASKA, KENT, KEWEENAW, LAKE, LAPEER, LEELANAU, LENAWEE, LUCE, MACKINAC, MANISTEE, MARQUETTE, MASON, MECOSTA, MENOMINEE, MIDLAND, MISSAUKEE, MONTCALM, MONTMORENCY, MUSKEGON, NEWAYGO, OCEANA, OGEMAW, ONTONAGON, OSCEOLA, OSCODA, OTSEGO, OTTAWA, PRESQUE ISLE, ROSCOMMON, SANILAC, SCHOOLCRAFT, SHIAWASSEE, SAGINAW, ST. CLAIR, ST. JOSEPH, TUSCOLA, VAN BUREN AND WEXFORD COUNTIES

AREA 2: GENESEE, LIVINGSTON, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES

			Rates	Fringes
Sign I	nstall	er		
A	REA 1			
	GROUP	1\$	21.78	11.83
	GROUP	2\$	25.27	11.8375
A	.REA 2			
	GROUP	1\$	22.03	11.83
	GROUP	2\$	25.02	11.8375

FOOTNOTE:

a. \$132.70 per week, plus \$17.80 per day.

SIGN INSTALLER CLASSIFICATIONS:

GROUP 1: performs all necessary labor and uses all tools required to construct and set concrete forms required in the installation of highway and street signs

GROUP 2: performs all miscellaneous labor, uses all hand and power tools, and operates all other equipment, mobile or otherwise, required for the installation of highway and street signs

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TEAM0247-010 04/01/2018

AREA 1: LAPEER AND SHIAWASSEE COUNTIES

AREA 2: GENESEE, MACOMB, MONROE, OAKLAND, ST. CLAIR, WASHTENAW AND WAYNE COUNTIES

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

19.04

GROUP 3.....\$ 24.45

SCOPE OF WORK: Excavation, site preparation, land balancing, grading, sewers, utilities and improvements; also including but not limited to, tunnels, underground piping, retention, oxidation, flocculation facilities, conduits, general excavation and steel sheeting for underground construction. Underground construction work shall not include any structural modifications, alterations, additions and repairs to buildings or highway work, including roads, streets, bridge construction and parking lots or steel erection.

### TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Truck driver on all trucks (EXCEPT dump trucks of 8 cubic yards capacity or over, pole trailers, semis, low boys, Euclid, double bottom and fuel trucks)

GROUP 2: Truck driver on dump trucks of 8 cubic yards capacity or over, pole trailers, semis and fuel trucks

GROUP 3: Truck driver on low boy, Euclid and double bottom

SUMI2002-001 05/01/2002	
Rates	Fringes
Flag Person\$ 10.10	0.00
LINE PROTECTOR (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE)\$ 18.98	12.85
LINE PROTECTOR (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE)\$ 17.14	12.85
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1\$ 25.74	12.85
Pavement Marking Machine (ZONE 1: GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE) Group 2\$ 23.17	12.85
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE COUNTIES) Group 1\$ 23.67	12.85
Pavement Marking Machine (ZONE 2: STATEWIDE (EXCLUDING GENESEE, MACOMB, MONROE, OAKLAND, WASHTENAW AND WAYNE)	12.85
Group 2\$ 21.30	12.85

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WORK CLASSIFICATIONS:

PAVEMENT MARKER GROUP 1: Drives or operates a truck mounted striper, grinder, blaster, groover, or thermoplastic melter for the placement or removal of temporary or permanent pavement markings or markers.

PAVEMENT MARKER GROUP 2: Performs all functions involved for the placement or removal of temporary or permanent pavement markings or markers not covered by the classification of Pavement Marker Group 1 or Line Protector.

LINE PROTECTOR: Performs all operations for the protection or removal of temporary or permanent pavement markings or markers in a moving convoy operation not performed by the classification of Pavement Marker Group 1. A moving convoy operation is comprised of only Pavement Markers Group 1 and Line Protectors.

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WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014. Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

#### \_\_\_\_\_

#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- $^{\star}$  an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the

Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

General Decision Number: MI190074 01/04/2019 MI74

Superseded General Decision Number: MI20180074

State: Michigan

Construction Type: Heavy

County: Washtenaw County in Michigan.

Heavy, Includes Water, Sewer Lines and Excavation (Excludes Hazardous Waste Removal; Coal, Oil, Gas, Duct and other similar Pipeline Construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification	Number	Publication	Date
0		01/04/2019	

CARP0687-006 06/01/2018

	Rates	Fringes	
CARPENTER, Includes Form Work	\$ 32.00	27.82	
ELEC0252-009 05/28/2018			
	Rates	Fringes	
ELECTRICIAN	\$ 44.12	23.54	
+ ENGLOSOF 010 00/01/0010			

\* ENGI0325-019 09/01/2018

POWER EQUIPMENT OPERATORS: Underground Construction (Including Sewer)

	Rates	Fringes
POWER EQUIPMENT OPERATOR GROUP 1 GROUP 2 GROUP 3 GROUP 4	.\$ 27.80 .\$ 27.07	23.85 23.85 23.85 23.85
POWER EQUIPMENT OPERATOR CLASSIF	ICATIONS	
GROUP 1: Backhoe/ Excavator, B Crane, Grader/ Blade, Loader, (over 8 ft. digging capacity)		
GROUP 2: Trencher (8-ft digging	capacity and sma	aller)
GROUP 3: Boom Truck (non-swingin	g, non- powered	type boom)
GROUP 4: Broom/ Sweeper, Fork Steer /Skid Loader	Iruck, Tractor,	Bobcat/ Skid
ENGI0326-008 06/01/2018		
EXCLUDES UNDERGROUND CONSTRUCTIO	N	
	Rates	Fringes
OPERATOR: Power Equipment GROUP 1 GROUP 2 GROUP 3 GROUP 4 GROUP 5 GROUP 6 GROUP 7	.\$ 39.49 .\$ 37.99 .\$ 37.69 .\$ 36.87 .\$ 36.01	23.95 23.95 23.95 23.95 23.95 23.95 23.95 23.95
GROUP 8	.\$ 33.33	23.95
GROUP 9 FOOTNOTES: Tower cranes: to be determined by the combined len	paid the crane	
POWER EQUIPMENT OPERATOR CLASSIF	ICATIONS	
GROUP 1: Crane with boom & jib o	r leads 400' or	longer
GROUP 2: Crane with boom & jib o	r leads 300' or	longer
GROUP 3: Crane with boom & jib o	r leads 220' or	longer
GROUP 4: Crane with boom & jib o	r leads 140' or	longer
GROUP 5: Crane with boom & jib o	r leads 120' or	longer
GROUP 6: Regular crane operator		

GROUP 7: Backhoe/Excavator, Bobcat/Skid Loader, Boring Machine, Broom/Sweeper, Bulldozer, Grader/Blade, Loader, Roller, Scraper, Tractor, Trencher GROUP 8: Forklift GROUP 9: Oiler \_\_\_\_\_ IRON0025-006 06/17/2018 Rates Fringes IRONWORKER Reinforcing.....\$ 29.48 27.74 Structural.....\$ 35.52 28.65 \_\_\_\_\_ LABO0334-009 06/01/2018 EXCLUDES OPEN CUT CONSTRUCTION Rates Fringes Landscape Laborer GROUP 1.....\$ 20.52 6.90 GROUP 2.....\$ 18.52 6.90 LANDSCAPE LABORER CLASSIFICATIONS GROUP 1: Landscape specialist, including air, gas and diesel equipment operator, lawn sprinkler installer and skidsteer (or equivalent) GROUP 2: Landscape laborer: small power tool operator, material mover, truck driver and lawn sprinkler installer tender \_\_\_\_\_ LABO0334-018 09/01/2018 SCOPE OF WORK: OPEN CUT CONSTRUCTION: Excavation of earth and sewer, utilities, and improvements, including underground piping/conduit (including inspection, cleaning, restoration, and relining) Rates Fringes LABORER (1) Common or General.....\$ 23.75 12.85 (2) Mason Tender-Cement/Concrete.....\$ 23.86 12.85 (4) Grade Checker.....\$ 24.05 12.85 (5) Pipelayer.....\$ 22.90 12.75 (524.20) Pipelayer.....\$ 22.90 12.85 (7) Landscape.....\$ 18.14 12.85 \_\_\_\_\_ -----

LAB00499-020 08/01/2017

# EXCLUDES OPEN CUT CONSTRUCTION

	Rates	Fringes
LABORER GROUP 1 GROUP 2 GROUP 3	\$ 28.91	14.20 14.20 14.20
LABORER CLASSIFICATIONS		
GROUP 1: Common or General; Grade	Checker	
GROUP 2: Mason Tender - Cement/Co	ncrete	
GROUP 3: Pipelayer		
PAIN0022-005 07/01/2008		
	Rates	Fringes
PAINTER Brush & Roller Spray		14.75 14.75
PLAS0514-002 06/01/2018		
	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	\$ 31.47	13.81
PLUM0190-010 06/01/2017		
	Rates	Fringes
PLUMBER	\$ 40.13	21.62
TEAM0007-006 06/01/2018		
	Rates	Fringes
TRUCK DRIVER Dump Truck under 8 cu. yds.; Tractor Haul Truck Dump Truck, 8 cu. yds. and over Lowboy/Semi-Trailer Truck	\$ 26.50	.50 + a+b .50 + a+b .50 + a+b
FOOTNOTE: a. \$446.70 per week. b. \$67.00 daily.		
SUMI2010-072 11/09/2010		
	Rates	Fringes
TRUCK DRIVER: Off the Road Truck	\$ 20.82	3.69

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing

this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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#### WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.)

and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

\_\_\_\_\_

END OF GENERAL DECISION

# CONSTRUCTION NOTES:

- 1. DRIVEWAYS AND ENTRANCES TO BUILDINGS. REAL PROPERTY. AND THE LIKE SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL NECESSARY DRIVEWAY CLOSURES WITH THE PROPERTY OWNER(S) AND RESIDENT(S) IN THE AREAS OF CONSTRUCTION.
- 2. THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND SERVICE LEADS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 3. LOCATION AND DEPTH OF UTILITIES AS DEPICTED ON THE PLANS IS APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE AHEAD AND ADJUST DEPTH OF CONFLICT UTILITIES ACCORDINGLY. ANY DAMAGE TO UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID AND/OR REPAIR AS NECESSARY.
- 4. THE CONTRACTOR IS TO TAKE SPECIAL CARE TO PROTECT THE EXISTING WATER MAIN AND BE RESPONSIBLE FOR MAINTAINING CONSISTENT WATER SERVICE.
- 5. DURING NON-WORKING HOURS NO TRENCH SHALL REMAIN OPEN; ANY OPEN TRENCH SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS. MAX".
- 6. TRENCHES FOR NEW WATER SERVICES SHALL BE EXCAVATED TO MIOSHA AND CITY OF ANN ARBOR PUBLIC WORKS REQUIREMENTS.
- 7. CITY OF ANN ARBOR PUBLIC WORKS WILL INSTALL THE CORPORATION AND COPPER SERVICE LEAD(S) TO TRANSFER THE CONNECTION(S). IF AN EXISTING WATER SERVICE IS FOUND TO BE FAILING OR IS NOT COPPER, THE LEAD WILL BE REPLACED TO THE CURB BOX BY PUBLIC WORKS.
- 8. FOR THE INSTALLATION OF CORPORATIONS, OR ANY OTHER RELATED ACTIVITIES, THE CONTRACTOR SHALL NOT RECEIVE ADDITIONAL COMPENSATION FOR DELAYS DUE TO THE SCHEDULING OF OR COORDINATION WITH THE CITY OF ANN ARBOR PUBLIC WORKS.
- 9. THE CONTRACTOR SHALL BACKFILL TRENCHES IN ACCORDANCE WITH TRENCH DETAIL SPECIFIED ON PLANS. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK "EXCAVATE AND BACKFILL FOR WATER SERVICE TAP AND LEAD". ALL CONCRETE REMOVALS AND REPLACEMENTS REQUIRED FOR THIS WORK WILL BE PAID FOR SEPARATELY.
- 10. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLYETHYLENE WRAPPED PER ANSI/AWWA *C105/A21.5*.
- 11. COR-BLU BOLTS TO BE USED AT ALL MECHANICAL WATER MAIN JOINTS AT HYDRANTS AND MEGALUG FITTINGS
- 12. THE CONTRACTOR SHALL CONSTRUCT, FLUSH, AND BACTERIOLOGICALLY TEST THE WATER MAIN PER DETAILED SPECIFICATION "WATER MAIN INSTALLATION AND TESTING" AND AS APPROVED BY THE ENGINEER. ALL CHLORINATED WATER SHALL BE DISCHARGED DIRECTLY INTO AN APPROVED SANITARY SEWER. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY HOSES, FITTINGS AND THE LIKE TO ACCOMPLISH THIS WORK.
- 13. WATER MAIN FITTINGS, OTHER THAN THOSE SPECIFICALLY LISTED AS SEPARATE PAY ITEMS WHICH ARE REQUIRED TO COMPLETE THE WORK, SUCH AS BLOW-OFF ASSEMBLIES, CONCRETE THRUST BLOCKS, SOLID SLEEVES AND MECHANICAL PLUGS, SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PIPE PAY ITEMS.
- 14. "NO PARKING" SIGNS SHALL BE INSTALLED BY THE CONTRACTOR AT LOCATIONS AS APPROVED OR DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS.
- 15. POSTAL DELIVERY AND REFUSE PICKUP SERVICE SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
- 16. ALL FITTINGS, HYDRANTS, VALVES AND CASTINGS REMOVED DURING CONSTRUCTION ARE THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR WITHIN 48 HOURS SHALL DELIVER TO CITY OF ANN ARBOR PUBLIC WORKS FACILITY AT THE W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL ROAD.
- 17. WHERE STREET CURBS ARE UNDERMINED DUE TO CONSTRUCTION ACTIVITIES, THEY SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.

# CONSTRUCTION NOTES (con't):

- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUOUS MAINTENANCE OF THE TEMPORARY ROAD SURFACE AND SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE FULL COMPLETION OF THE PROJECT. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS, MAX".
- 19. ALL CURB. SIDEWALK. DRIVEWAY APPROACH REMOVALS SHALL BE APPROVED BY ENGINEER BEFORE THE WORK IS DONE.
- 20. SAWED SEWER PIPE CONNECTIONS SHALL BE COUPLED WITH A FERNCO FLEXIBLE COUPLING AND A STAINLESS STEEL SHEAR RING.
- 21. THE LOCATION OF MATERIAL STOCK PILES AND ON-SITE STAGING AREAS TO BE APPROVED BY THE ENGINEER.
- 22. FOR MAINLINE PAVING, THE WIDTH OF THE MAT FOR EACH PASS OF THE PAVER SHALL BE NOT LESS THAN 10.5' OR GREATER THAN 15'. AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DIRECT THE LAYOUT OF THE LONGITUDINAL JOINTS DURING CONSTRUCTION.
- 23. ALL STRUCTURES SHALL RECEIVE NEW CASTINGS AS DIRECTED BY THE ENGINEER. AS SPECIFIED ON THE STANDARD CASTING SCHEDULE. THE EXISTING CASTINGS ARE THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL DELIVER TO CITY OF ANN ARBOR PUBLIC WORKS FACILITY AT THE W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL ROAD.
- 24. PAYMENT FOR DRAINAGE STRUCTURE SUMPS, WHERE SPECIFIED, SHALL BE INCLUDED IN THE PAYMENT FOR THE VARIOUS DRAINAGE STRUCTURE SIZES AND OR TYPES.
- 25. WHERE SEWER PIPES OF DIFFERENT SIZES OR MATERIALS ARE JOINED. FERNCO FLEXIBLE COUPLINGS WITH STAINLESS STEEL SHEAR RINGS SHALL BE USED. THE CONTRACTOR'S PURCHASE PRICE FOR THESE DEVICES, INCLUDING SHIPPING, SHALL BE PAID AS AN EXTRA. PRIOR TO PAYMENT FOR THIS ITEM, THE CONTRACTOR SHALL SUBMIT RECEIPTS FOR THE ENGINEER'S REVIEW AND APPROVAL ALL OTHER COSTS ASSOCIATED WITH THE INSTALLATION OF THESE DEVICES SHALL BE INCLUDED IN THE PAYMENT FOR THE SEWER.
- 26. WHERE SEWER AND WATER MAIN ARE TO BE REMOVED & REPLACED OR ADDED. ALL PIPE SHALL BE INSTALLED USING TRENCH DETAIL DETAILED IN THE SPECIFICATIONS OR SHOWN ON PLANS. BACKFILL FOR SEWER AND WATER CONSTRUCTION SHALL BE MDOT GRANULAR MATERIAL, CLASS II, MODIFIED.
- 27. EXISTING STREET NAME, GUIDE, AND REGULATORY SIGNS, AND MAILBOXES WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED PRIOR TO CONSTRUCTION, STORED IN A MANNER WHICH WILL PREVENT DAMAGE, AND RE-SET IN LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN "MACHINE GRADING, MODIFIED,\_\_
- 28. IN AREAS WHERE EDGE DRAIN CANNOT BE INSTALLED IN ACCORDANCE WITH CITY OF ANN ARBOR DETAIL SD-TD-11, THE EDGE DRAIN SHALL BE INSTALLED AT THE DEPTH AS INDICATED ON THE PLANS, OR AS DIRECTED BY ENGINEER. IN NO CASE SHALL THE EDGE DRAIN BE INSTALLED AT A GRADE LESS THAN 0.50% OR AT A DEPTH OF LESS THAN 2' BELOW TOP OF PROPOSED PAVEMENT.

# **CITY OF ANN ARBOR STANDARD DETAILS**

DETAILS REQUIRED ON THIS PROJECT AND NOT INCLUDED IN THE PLAN SET ARE AS FOLLOWS:

ITEM OF WORK	DETAIL
SEWER CONNECTION	SD-S-6
SANITARY SEWER CONNECTION WITH RISER	SD-S-7
SEWER BORE	SD-S-13
MAILBOX/NEWSPAPER TUBE INSTALLATION AND RELOCATION	SD-M-2

MAX". INJURY. EQUAL)

# WATER MAIN CONSTRUCTION NOTES

1: SEE EROSION CONTROL SHEETS FOR DETAILS ON PLACEMENT. MAINTENANCE, AND REMOVAL OF EROSION CONTROL ITEMS. 2: THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DAMAGE OR INJURY DURING CONSTRUCTION OPERATIONS ALL UTILITIES. SITE FEATURES, LANDSCAPING, AND OTHER ITEMS NOT DESIGNATED FOR REMOVAL OR ABANDONMENT. PAYMENT FOR PROTECTION OF UTILITIES INCLUDED IN "GENERAL CONDITIONS,

MAX". EXISTING FACILITIES NOT DESIGNATED FOR REMOVAL OR ABANDONMENT, BUT WHICH ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS SOLE EXPENSE, AS DETERMINED BY THE ENGINEER.

3: THE EXISTING UTILITIES SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED THROUGH SURVEYS AND/OR EXISTING PLANS. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES. IF STORM OR WATERMAINS CROSS OTHER UTILITIES, CONTACT THEIR RESPECTIVE OWNERS FOR INFORMATION ON HOW TO PROCEED. PAYMENT FOR THE

COORDINATION EFFORTS AND ASSOCIATED ITEMS SHALL BE INCLUDED IN ASSOCIATED PROPOSED STORM OR WATERMAIN ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.

4: THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DAMAGE OR INJURY THE EXISTING WATER MAIN DURING CONSTRUCTION OPERATIONS. ANY DAMAGE TO THIS FACILITY BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE, AS DETERMINED BY THE ENGINEER. PAYMENT FOR PROTECTION OF THE EXISTING WATER MAIN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS.

5: THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE EXISTING SANITARY SEWER OR WATER MAIN LEADS FOR EASE OF CONSTRUCTING OTHER ASPECTS OF WORK. THE CONTRACTOR SHALL CAREFULLY PROTECT ALL LEADS FROM DAMAGE OR

6: THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS WHICH ARE INCLUDED BY REFERENCE. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH CURRENT PUBLIC SERVICE DEPARTMENT STANDARD SPECIFICATIONS AND DETAILS.

7: ALL WATER MAIN SHALL BE PRESSURE CLASS 350 DUCTILE IRON WATER MAIN. CEMENT-LINED (DOUBLE THICKNESS), WITH POLYWRAP UNLESS NOTED OTHERWISE.

8: RESTRAINED JOINT SYSTEMS FOR WATER MAIN SHALL BE UTILIZED WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. RESTRAINED JOINT GASKET SYSTEMS

ARE TO BE USED. (FIELD-LOK 350 BY U.S. PIPE, FAST-GRIP BY AMERICAN DUCTILE IRON PIPE, OR APPROVED

9: ALL WATER MAIN TO HAVE 5.5 FEET OF COVER. MAINTAIN A MINIMUM OF 18-INCH VERTICAL CLEARANCE FOR STORM AND SANITARY CROSSINGS AND A MINIMUM OF 12-INCH VERTICAL CLEARANCE WITH ALL OTHER UTILITIES.

10: UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL UTILIZE STANDARD PIPE DEFLECTIONS FOR FOLLOWING THE PROPOSED ALIGNMENT.

11: NEW FIRE HYDRANTS SHALL BE EJIW 5BR-250 WITH 4-INCH STORZ QUICK CONNEC AND 2-25 HYDRANT OUTLETS . 12: FIRE HYDRANT ASSEMBLIES SHALL INCLUDE ALL NECESSARY HYDRANT EXTENSIONS, THRUST BLOCKS, PIPE AND FITTINGS, INCLUDING ADJUSTMENT OF THE COMPANION VALVE. FIRE HYDRANT ASSEMBLY INCLUDES 6-INCH COMPANION VALVE LOCATED THREE FEET FROM THE HYDRANT.

13: ALL WATER MAIN TRENCH BACKFILL SHALL BE MDOT CLASS II GRANULAR MATERIAL (SEE UTILITY TRENCH TYPE I DETAIL). 14: CONNECTIONS TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL THE NEW MAIN HAS BEEN SUCCESSFULLY TESTED AND HAS PASSED ALL HYDROSTATIC AND BACTERIOLOGICAL TESTING. FINAL CONNECTIONS SHALL BE COORDINATED WITH THE ENGINEER.

15: THE CONTRACTOR SHALL PERFORM ALL WATER SYSTEM SHUT DOWNS AFTER APPROPRIATE NOTIFICATION TO THOSE AFFECTED AND APPROVAL HAS BEEN GRANTED BY THE FNGINFFR.

16: WATER SERVICES SHOWN REPRESENT THE BEST INFORMATION AVAILABLE BASED ON RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE CITY IN LOCATING. VERIFYING AND RECONNECTING ALL EXISTING ACTIVE SERVICES.

17: ALL LINE STOP LOCATIONS SHALL BE DETERMINED BY THE CITY ENGINEER AS NEEDED. THIS ITEM OF WORK SHALL BE PAID FOR AS "LINE STOP, DUCTILE IRON PIPE, \_-INCH."

# MISCELLANEOUS QUANTITIES

THE FOLLOWING ITEMS OF WORK SHALL BE DONE AS THEY APPLY THROUGHOUT THE PROJECT. THESE ITEMS ARE NOT DETAILED OR INCLUDED IN THE PLAN AND PROFILE SHEETS. 

Pay Code	Description	Units	Quantity
130	Protective Fencing	Ft	2000
	Exploratory Excavation, (0-10 ft. deep)		
140	(Trench Det 1, Modified)	Ea	16
	Barricade, Type III, High Intensity, Lighted,		
205	Furn & Oper	Ea	25
200	Channelizing Device, 42 inch, High Intensity,		
206	Furn & Oper	Ea	230
207	Plastic Drum, High Intensity, Furn & Oper	Ea	60
200	Sign, Type B, Temp, Prismatic, Special, Furn		
208	& Oper	Sft	500
209	Sign, Type A, Temp, Prismatic, Furn & Oper	Sft	60
210	Sign, Type B, Temp, Prismatic, Furn & Oper	Sft	1400
211	Lighted Arrow, Type C, Furn & Oper	Ea	4
242	Sign, Portable, Changeable Message,		
212	NTFCIP-Compliant, Furn & Oper	Ea	
213	Remove Special Marking	Sft	300
214	Concrete Barrier, Temp, Furn & Oper	Ft	100
215	Sign Cover	Ea	10
216	Pedestrian Barrier with Fence, Temp	Ft	100
217	Pedestrian Type II Barricade, Temp	Ea	30
218	Pedestrian Type II Channelizer, Temp	Ft	300
219	Pedestrian Path, Temp	Ft	100
220	Pedestrian Ramp, Temp	Ea	(
241	Subgrade Undercutting, Type IIB	Cyd	200
242	Structure Covers, Special	Lbs	39800
243	6 inch, Wrapped Underdrain	Ft	3500
244	Aggregate Base Course, 21AA, Modified	Ton	6400
245	Maintenance Gravel, 21AA, Modified	Ton	500
246	Flowable Fill (Backfill)	Cyd	30
270	No Parking Sign	Ea	120
279	Line Stop, Ductile Iron Pipe, 8 inch	Ea	:
279	Line Stop, Ductile Iron Pipe, 6 inch	Ea	-
280	Line Stop, Additional Rental Day	Each	10
335	SDR 35, PVC Tee	Ea	
350	SDR 35 PVC Riser	VFt	10
353	SDR 35 PVC Service Lead	Ft	40
	Excavate & Backfill for Water Service Tap		
460	and Lead	Lft	400
564	Reconstruct Structure	Ea	
	Additional Depth Structure-		
568	Adjustment/Repair	Vft	20
703	Silt Fence	Ft	1000

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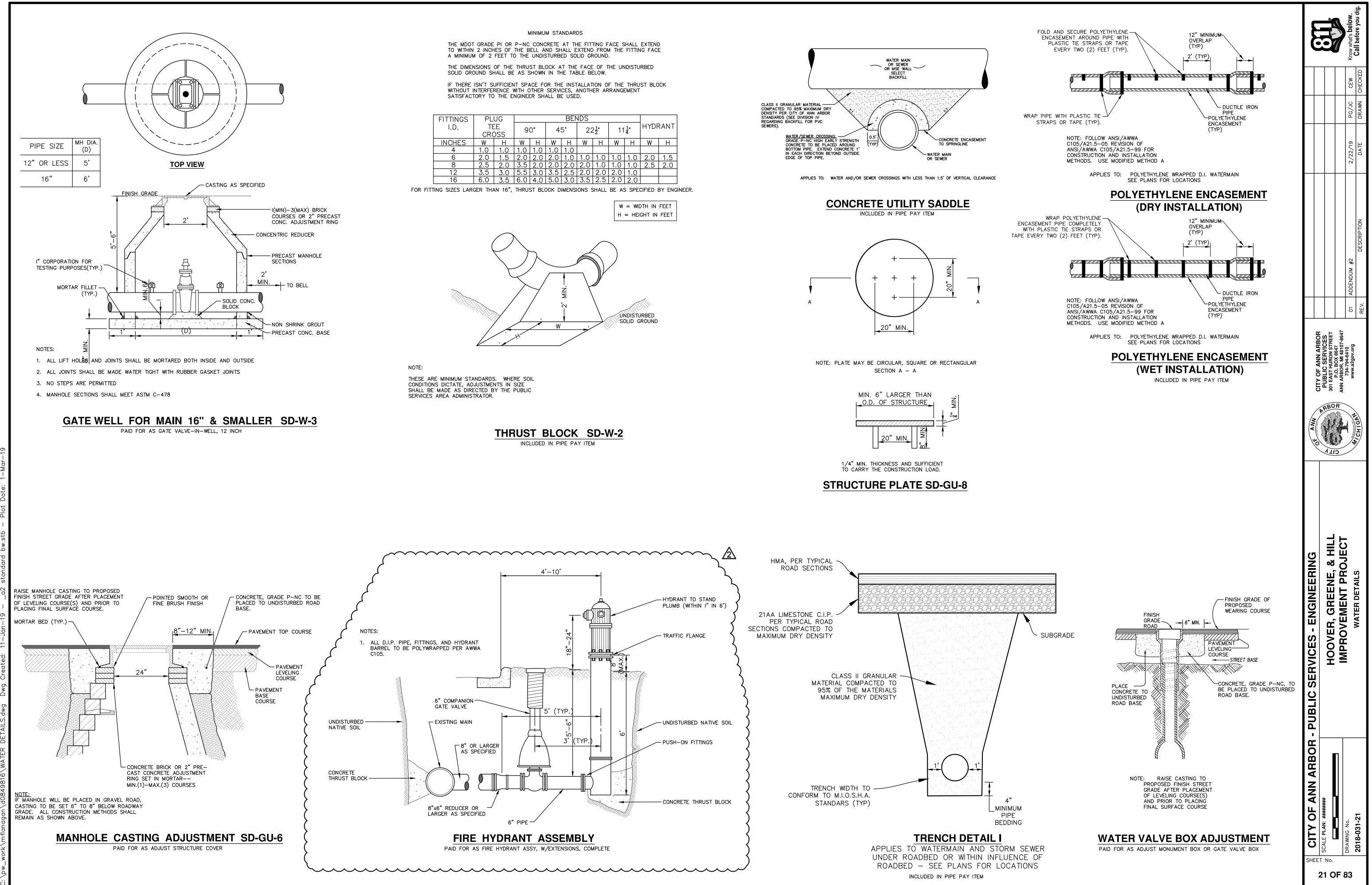
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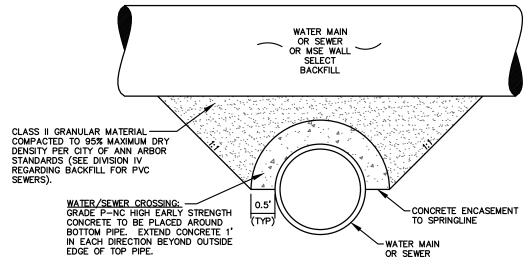
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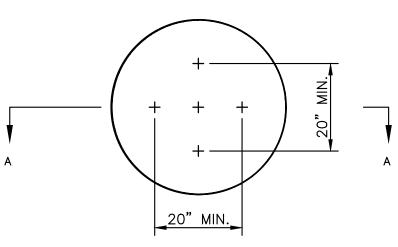
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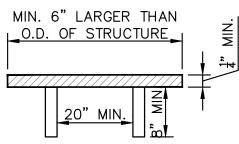
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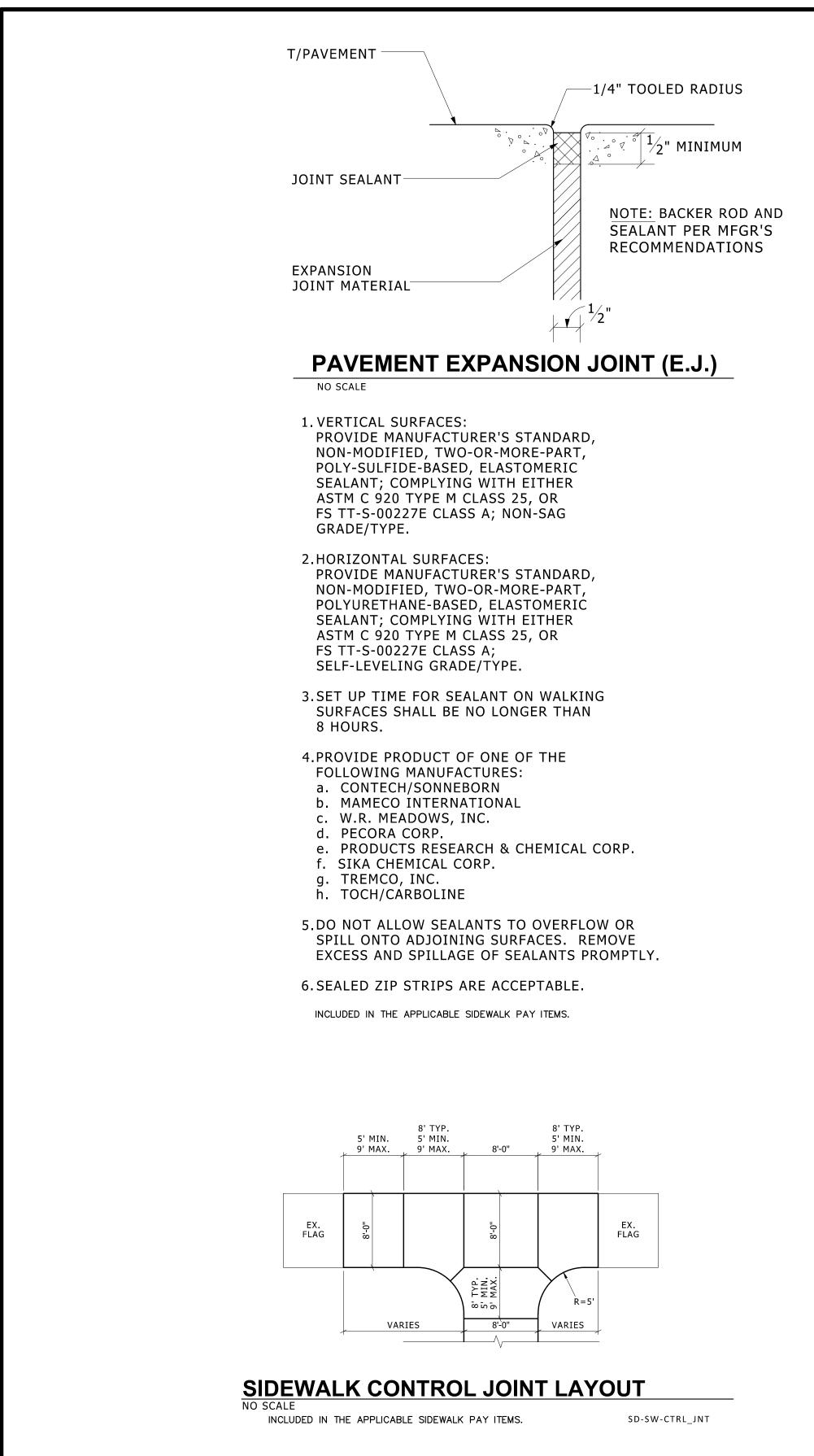


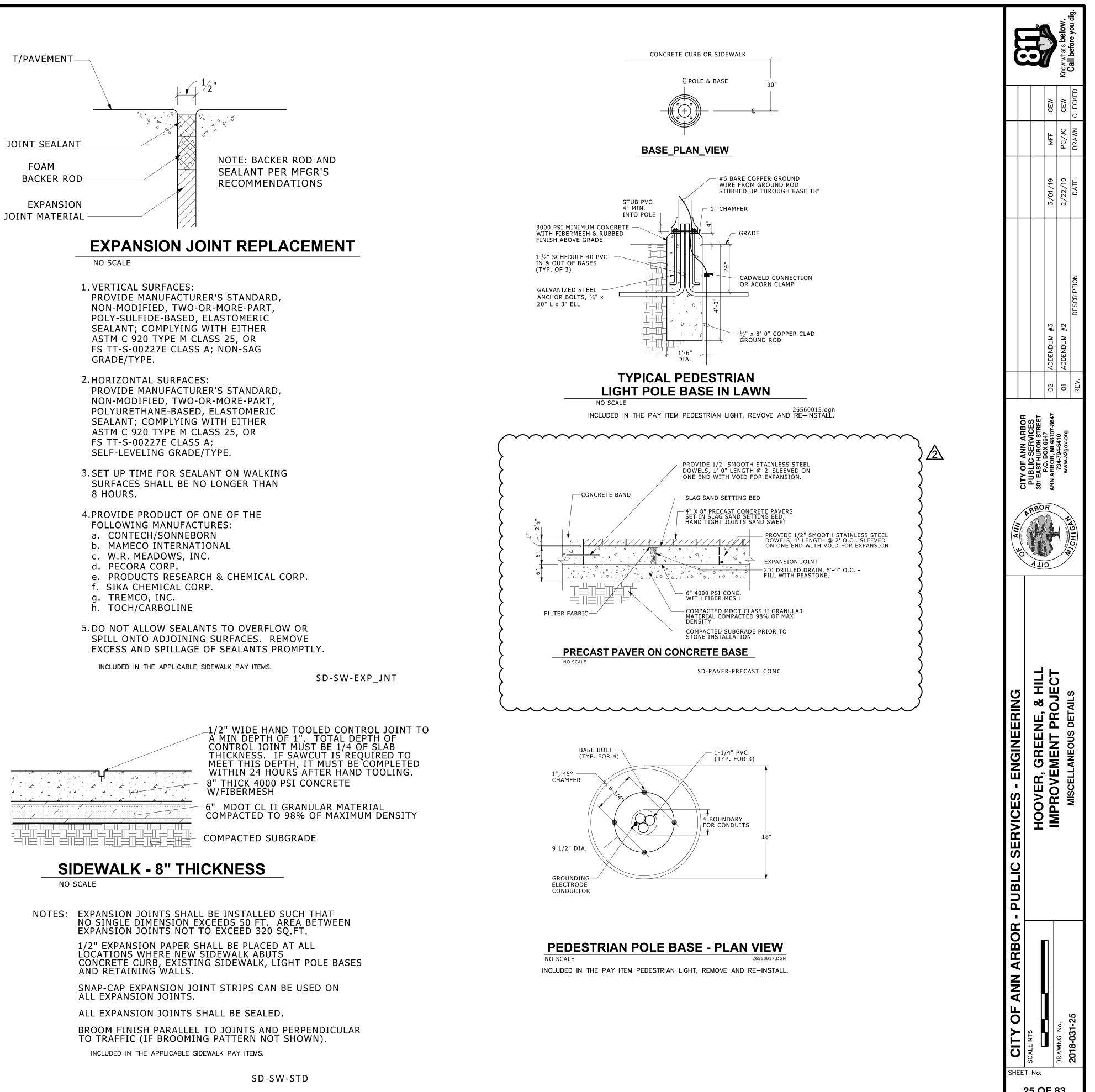
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130	Protective Fencing	Ft	2000	266	HMA, 3E1	Ton	28
140	Exploratory Excavation, (0-10 ft. deep)		10	267	HMA, 4E1	Ton	17
140	(Trench Det 1, Modified)	Ea	16	268 270	HMA, 5E1	Ton	18
201	Certified Payroll Compliance and Reporting	LSUM	1	270	No Parking Sign Irrigation Systems, Protection and	Ea	
202	General Conditions, Max \$370,000	LSUM	1	272	Maintenance	LSUM	
203	Audio-visual Recording	LSUM	1		Project Clean-Up and Restoration, Special -		
204	Traffic Regulator Control	LSUM	1	274	Greene	LSUM	
205	Barricade, Type III, High Intensity, Lighted,	_	25		Project Clean-Up and Restoration, Special -		
205	Furn & Oper Channelizing Device, 42 inch, High Intensity,	Ea	25	274	Hill Design Close Us and Destantion Consist	LSUM	
206	Furn & Oper	Ea	230	274	Project Clean-Up and Restoration, Special - Hoover	LSUM	
207	· ·	Ea	60	274	Topsoil Surface, 4 inch	Syd	13
202	Sign, Type B, Temp, Prismatic, Special, Furn			277	Seeding and Mulching	Syd	13
208	& Oper	Sft	500	278	Storm Control Structure, R1	Each	
209		Sft	60	278	Storm Control Structure, R2	Each	
210		Sft	1400	278	Storm Control Structure, R3	Each	
211	Lighted Arrow, Type C, Furn & Oper	Ea	4	278	Storm Control Structure, 97-51067	Each	
212	Sign, Portable, Changeable Message, NTFCIP-Compliant, Furn & Oper	Fa		279 279	Line Stop, Ductile Iron Pipe, 8 inch	Ea	
213	Remove Special Marking	Ea Sft	300	279	Line Stop, Ductile Iron Pipe, 6 inch Line Stop, Additional Rental Day	Ea Each	
213	Concrete Barrier, Temp, Furn & Oper	Ft	100	280	Pedestrian Light, Remove and Re-Install	Each	
214	Sign Cover	Ea	100	281	Handhole Assembly, 12 inch x 18 inch	Ea	
216	Pedestrian Barrier with Fence, Temp	Ft	100	283	Conduit, Directional Bore, 3 inch	Ft	294
217	Pedestrian Type II Barricade, Temp	Ea	30		D.I., Cl-56, Water Main, w/Poly Wrap, 12	1	1
218	Pedestrian Type II Channelizer, Temp	Ft	300	284	inch, Bored in Steel Casing	Ft	23
219	Pedestrian Path, Temp	Ft	100		PC 350, D.I. Water Main, w/Poly Wrap, 12		
220	Pedestrian Ramp, Temp	Ea	6	285	inch, Tr Det I, Mod	Ft	329
221	Pavt Mrkg, Sprayable Thermopl, 4 inch,				PC 350, D.I. Water Main, w/Poly Wrap, 4		
	Yellow	Ft	8000	285	inch, Tr Det I, Mod	Ft	
221	Pavt Mrkg, Sprayable Thermopl, 4 inch, White	<b>C</b> +	4200	205	PC 350, D.I. Water Main, w/Poly Wrap, 8		1
222		Ft	4200	285 286	inch, Tr Det I, Mod 90 deg Bend, 12 inch	Ea	1
223	Pavt Mrkg, Thermoplastic, 24 men stop bar Pavt Mrkg, Thermopl, 12 inch Crosswalk	Ft	2300	286	45 deg Bend, 12 inch	Ea	
223		Ea	4	286	22.5 deg Bend, 12 inch	Ea	`
	Pavt Mrkg, Ovly Cold Plastic, Bike Arrow			286	11.25 deg Bend, 12 inch	Ea	-
224	Sym	Ea	11	286	90 deg Bend, 4 Inch	Ea	
224	Pavt Mrkg, Ovly Cold Plastic, Bike Sym	Ea	11	287	Reducer, 12 inch x 6 inch	Ea	:
224	Pavt Mrkg, Ovly Cold Plastic, Sharrow Sym	Ea	10	287	Reducer, 8 inch x 6 inch	Ea	
224		Ea	7	288	Tee, 12 inch x 12 inch x 12 inch	Ea	:
224		Ea	7	288	Tee, 12 inch x 12 inch x 10 inch	Ea	
226	Minor Traffic Devices, Max \$180,000	LSUM		288	Tee, 12 inch x 12 inch x 4 inch	Ea	
228	Parking Meters, Remove	Ea		288	Tee, 12 inch x 12 inch x 6 inch	Ea	
229 230	Erosion Control, Inlet Filter Sewer, Any Size or Depth, Rem	Ea Ft	<u>65</u> 2500	288 289	Tee, 12 inch x 12 inch x 8 inch Fire Hydrant Assy, w/Extensions, Complete	Ea	
230	Dr Structure, Any Size of Depth, Rem	Ea	2300	289	Gate Valve-in-Box, 12 inch	Ea	
233	Curb and Gutter, Any Type or Size, Rem	Ft	4000	290	Gate Valve in Box, 12 men	Ea	<u> </u>
234	Sidewalk and Ramps, Remove	Sft	10300	291	Gate Valve-in-Well, 12 inch	Ea	
235	Driveway Approach, Remove	Sft	2600		Tapping Sleeve 16 inch x 16 inch x 12 inch,		
236	Pavement, Remove	Syd	16500	292	Valve and Box	Ea	
238	Machine Grading, Modified, Greene	Sta	13.5		Tapping Sleeve 10 inch x 10 inch x 4 inch,		
238	Machine Grading, Modified, Hill	Sta	5.75	292	Valve and Box	Ea	
238	Machine Grading, Modified, Hoover	Sta	27	294	6 inch Water Main, Abandon	Lft	496
240	Non-Hazardous Contrm'd Mat'l Handling &	0.14	200	295	Water Main, Abandon w/Flowable Fill	Lft	
240 241	Disposal Subgrade Undercutting, Type IIB	Cyd Cyd	200	296 297	Gate Valve-in-Box, Abandon Gate Valve-in-Well, Abandon	Ea Ea	
241	Structure Covers, Special	Lbs	39800	297	Fire Hydrant, Rem	Еа	
243	6 inch, Wrapped Underdrain	Ft	3500	299	Tapping Sleeve, Valve and Well, Remove	Ea	+
244	Aggregate Base Course, 21AA, Modified	Ton	6400	320	RCP, Sewer, C76, CL-IV, 12 inch, Tr Det I	Ft	:
245	Maintenance Gravel, 21AA, Modified	Ton	500	321	RCP, Sewer, C76, CL-IV, 15 inch, Tr Det I	Ft	4
246	Flowable Fill (Backfill)	Cyd	30	322	RCP, Sewer, C76, CL- IV, 36 inch, Tr Det I	Ft	75
	Curb and Gutter, Conc, Match Existing,			323	RCP, Sewer, C76, CL- IV, 48 inch, Tr Det I	Ft	49
250	Special	Ft	1550	335	SDR 35, PVC Tee	Ea	_
051	Curb and Gutter, Conc, AA Det SD-R-1,	 		350	SDR 35 PVC Riser	VFt	
251	Special	Ft	1800	353	SDR 35 PVC Service Lead	Ft	
252 255	Driveway Opening, Conc, Detail M, P-NC Sidewalk, Concrete, 4 inch, Special	Ft Sft	650 2850	360	Type I Manhole (0-10 ft. Deep) Type I Manhole Add'l Depth	Ea Vf	+
255	Sidewalk, Concrete, 4 inch, Special	Sft	80	361 362	Type II Manhole (6 ft. Dia.) (0-10 ft. deep)	Ea	
255	Sidewalk Ramp, Concrete, 6 inch, Special	Sft	1000	363	Type II Manhole (6ft. Dia.) (0-10ft. deep)	Vf	
250	Sidewalk, Concrete, 8 inch, S2 Special	Sft	5280	363	Single Inlet	Ea	
	, , , , , , , , , , , , , , , , , , , ,				Excavate & Backfill for Water Service Tap	1	1
258	Sidewalk Ramp, Concrete, 8 inch, S2 Special	sft	1090	460	and Lead	Lft	40
259		Sft	2000	564	Reconstruct Structure	Ea	
260	Concrete Drive Approach, 8 inch, Non-Reinf,			566	Adjust Structure Cover	Ea	
	P-NC,	Sft	600	567	Adjust Monument Box or Gate Valve Box	Ea	
261	Detectable Warning Surface, Modified	Ft	341		Additional Depth Structure-		
	Sidewalk, Conc or Clay Brick Pavers, Rem			568	Adjustment/Repair	Vft	2
263	and Reinstall	Sft	360	703	Silt Fence	Ft	100
264	Cold Milling HMA Surface, Modified	Syd	1050				
265	Hand Patching, Modified	Ton	50				

Pay Code	Description	Units	Quantity
266	HMA, 3E1	Ton	2805
267	HMA, 4E1	Ton	1750
268	HMA, 5E1	Ton	1875
270	No Parking Sign	Ea	120
	Irrigation Systems, Protection and		
272	Maintenance	LSUM	
212	Project Clean-Up and Restoration, Special -		
274	Greene	LSUM	1
2/4	Project Clean-Up and Restoration, Special -		<u>_</u>
274			
274	Hill	LSUM	
	Project Clean-Up and Restoration, Special -		
274	Hoover	LSUM	
276	Topsoil Surface, 4 inch	Syd	1300
277	Seeding and Mulching	Syd	1300
278	Storm Control Structure, R1	Each	1
278	Storm Control Structure, R2	Each	1
278	Storm Control Structure, R3	Each	1
278	Storm Control Structure, 97-51067	Each	1
279	Line Stop, Ductile Iron Pipe, 8 inch	Ea	1
279	Line Stop, Ductile Iron Pipe, 6 inch	Ea	
280	Line Stop, Additional Rental Day	Each	10
			-
281	Pedestrian Light, Remove and Re-Install	Each	2
282	Handhole Assembly, 12 inch x 18 inch	Ea	17
283	Conduit, Directional Bore, 3 inch	Ft	2942
	D.I., Cl-56, Water Main, w/Poly Wrap, 12		
284	inch, Bored in Steel Casing	Ft	232
	PC 350, D.I. Water Main, w/Poly Wrap, 12		T
285	inch, Tr Det I, Mod	Ft	3297
	PC 350, D.I. Water Main, w/Poly Wrap, 4		
285	inch, Tr Det I, Mod	Ft	17
265			
005	PC 350, D.I. Water Main, w/Poly Wrap, 8		105
285	inch, Tr Det I, Mod	Ft	105
286	90 deg Bend, 12 inch	Ea	2
286	45 deg Bend, 12 inch	Ea	80
286	22.5 deg Bend, 12 inch	Ea	2
286	11.25 deg Bend, 12 inch	Ea	2
286	90 deg Bend, 4 Inch	Ea	1
287	Reducer, 12 inch x 6 inch	Ea	14
287	Reducer, 8 inch x 6 inch	Ea	6
288	Tee, 12 inch x 12 inch x 12 inch	Ea	12
288	Tee, 12 inch x 12 inch x 10 inch	Ea	1
288	Tee, 12 inch x 12 inch x 4 inch	Ea	1
288	Tee, 12 inch x 12 inch x 6 inch	Ea	1
288	Tee, 12 inch x 12 inch x 8 inch	Ea	8
289	Fire Hydrant Assy, w/Extensions, Complete	Ea	ç
290	Gate Valve-in-Box, 12 inch	Ea	6
290	Gate Valve-in-Box, 4 inch	Ea	1
291	Gate Valve-in-Well, 12 inch	Ea	14
	Tapping Sleeve 16 inch x 16 inch x 12 inch,		
292	Valve and Box	Ea	1
232			
202	Tapping Sleeve 10 inch x 10 inch x 4 inch,	5-	
292	Valve and Box	Ea	
294	6 inch Water Main, Abandon	Lft	4966
295	Water Main, Abandon w/Flowable Fill	Lft	145
296	Gate Valve-in-Box, Abandon	Ea	13
297	Gate Valve-in-Well, Abandon	Ea	10
298	Fire Hydrant, Rem	Ea	7
299	Tapping Sleeve, Valve and Well, Remove	Ea	1
320	RCP, Sewer, C76, CL-IV, 12 inch, Tr Det I	Ft	12
321	RCP, Sewer, C76, CL-IV, 15 inch, Tr Det I	Ft	40
322	RCP, Sewer, C76, CL- IV, 36 inch, Tr Det I	Ft	754
323	RCP, Sewer, C76, CL- IV, 48 inch, Tr Det I	Ft	491
335	SDR 35, PVC Tee	Ea	2
350	SDR 35 PVC Riser	VFt	10
353	SDR 35 PVC Service Lead	Ft	40
360	Type I Manhole (0-10 ft. Deep)	Ea	2
361	Type I Manhole Add'l Depth	Vf	10
362	Type II Manhole (6 ft. Dia.) (0-10 ft. deep)	Ea	8
363	Type II Manhole (6 ft. Dia.) Add'l Depth	Vf	9
367	Single Inlet	Ea	e
	Excavate & Backfill for Water Service Tap		
160		   ++	100
460	and Lead	Lft	400
564	Reconstruct Structure	Ea	3
566	Adjust Structure Cover	Ea	75
	Adjust Monument Box or Gate Valve Box	Ea	Z
567		1	
	Additional Depth Structure-		
	Additional Depth Structure- Adjustment/Repair	Vft	20

			Know what's below.	Call before you dig.
		CEW	CEW	CHECKED
_		MFF	PG/JC	DRAWN
		3/01/19	2/22/19	DATE
		ADDENDUM #3	ADDENDUM #2	DESCRIPTION
		02	01	REV.
	OF ANN CITY OF ANN ARBOR PUBLIC SERVICES 301 FAST HIRON STRFET		$\overline{\ }$	CHIGN
	IN ARBOR - PUBLIC SERVICES - ENGINEERING	IMPROVEMENT PROJECT		GUANIIIY SHEET
	CITY OF ANN ARBOR - PL			2018-031-83