



## ADDENDUM NUMBER ONE

**DATE:** December 11, 2015

**OWNER:** Olivette, Missouri  
9473 Olive Boulevard  
Olivette, Missouri 63132

**SUBJECT:** Addendum Number One to Old Bonhomme Improvements  
Federal Project No. STP-5497(602)

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This Addendum forms a part of the Bidding and Contract Documents and modifies the original Bidding Documents. **FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDUM MAY SUBJECT BIDDER TO DISQUALIFICATION.**

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### ITEM:

1. **REPLACE:** In the Project Manual, **ITEMIZED BID FORM (2 pages)**, with the enclosed **REVISED ITEMIZED BID FORM (2 pages)**.
2. **REPLACE:** In the Project Manual, the **JOB SPECIAL PROVISIONS** in its entirety (**14 pages**), with the enclosed **REVISED JOB SPECIAL PROVISIONS (14 pages)**, dated 12/9/15.
3. **REPLACE:** In the Plans, **SUMMARY OF QUANTITIES (3 pages)**, with the enclosed **REVISED SUMMARY OF QUANTITIES (3 pages)**.
4. **CHANGE:** Sealed Bid Proposals should be addressed as follows:  
  
City of Olivette  
Old Bonhomme Road Rehabilitation Project  
Attn: City Clerk  
9473 Olive Blvd  
Olivette MO 63132
5. **CLARIFICATION:** The Contractor will be required to coordinate their construction activities with Ameren's utility pole relocation process, including all utilities on Ameren's facilities (i.e. Charter Communications, AT&T, etc.). Ameren plans to relocate their utility poles and associated overhead wiring, beginning in the spring of 2016 and complete work in the summer of 2016. Coordination activities with these utilities will not be cause for additional Contract Days or costs.

**ATTACHMENTS:** **REVISED ITEMIZED BID FORM, (2 PAGES)**  
**REVISED JOB SPECIAL PROVISIONS (14 PAGES)**  
**REVISED SUMMARY OF QUANTITIES (3 PAGES)**

**END ADDENDUM NO. 1**

REVISED ADDENDUM 1

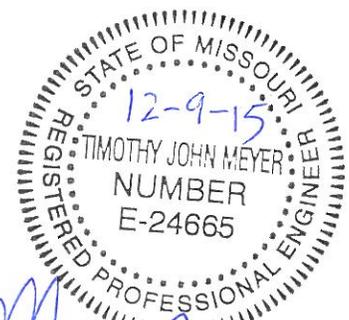
SUMMARY OF QUANTITIES					
ITEM NO.	PAY ITEM	UNIT	TOTAL QTY.	UNIT COST	COST
<b>ROADWAY</b>					
1	REMOVAL OF IMPROVEMENTS	L SUM	1		
2	TREE REMOVAL	EACH	50		
3	CLEARING & GRUBBING	ACRE	2		
4	COLDMILL BITUMINOUS PAVEMENT	SQYD	23,083		
5	UNCLASSIFIED EXCAVATION	CUYD	1,447		
6	COMPACTING IN EMBANKMENT	CUYD	1,353		
7	ADJUSTING INLET	EACH	24		
8	ADJUSTING MANHOLE	EACH	1		
9	CURB INLET	EACH	3		
10	DOUBLE INLET	EACH	2		
11	AREA INLET	EACH	4		
12	12 FLARED END SECTION	EACH	1		
13	STONE REVETMENT	CUYD	2.5		
14	12" REINFORCED CONCRETE PIPE	FT	121		
15	SEGMENTAL UNIT RETAINING WALL	SQFT	3,881		
16	LANDSCAPE WALL	LF	29		
17	PEDESTRIAN FENCE - METAL	LF	854		
18	PEDESTRIAN FENCE - WOOD	LF	88		
19	REPLACE MONUMENT IN KIND	EACH	1		
20	CONCRETE CURB & GUTTER - 6" BARRIER	FT	1,637		
21	CONCRETE CURB & GUTTER - 5" MOUNTABLE	FT	15,144		
22	TACK COAT	GAL	1,238		
23	2" TYPE "C" BITUMINOUS WEARING SURFACE	SQYD	24,428		
24	6" TYPE "X" BITUMINOUS CONCRETE BASE	SQYD	4,194		
25	4" TYPE "5" AGGREGATE SUBBASE	SQYD	4,907		
26	TEMPORARY 4" TYPE "5" AGGREGATE DRIVE	SQYD	30		
27	TYPE "A" GUARDRAIL	FT	48		
28	CONSTRUCTION SIGNS	SQFT	836		
29	CHANNELIZER (TRIM-LINE)	EACH	1,300		
30	TYPE III MOVABLE BARRICADE	EACH	3		
31	RELOCATE CONSTRUCTION SIGNS	SQFT	818		
32	RELOCATE EXISTING SIGNS	EACH	80		
33	6" NON-REINFORCED CONCRETE DRIVEWAY	SQYD	272		
34	COMMERCIAL ENTRANCE	SQYD	312		
35	BRICK CONCRETE PAVER DRIVEWAY	SQYD	96		
36	SILT FENCE	FT	4,189		
37	FIBER ROLL	FT	635		
38	SEED & STRAW	ACRE	2		
39	COMPOST AMENDED SOIL	CUYD	138		
40	MOBILIZATION	L SUM	1		
	<b>SUBTOTAL</b>				
<b>PEDESTRIAN FACILITIES</b>					
41	4" CONCRETE SIDEWALK	SQYD	6,527		
42	TYPE 'A' CONCRETE CURB	LF	207		
43	CONCRETE CURB RAMP	SQYD	286.5		
44	TRUNCATED DOMES	SF	448		
	<b>SUBTOTAL</b>				

<b>PAVEMENT MARKINGS</b>					
45	4" YELLOW ACRYLIC WATERBORNE PVMT PAINT	FT	16,049		
46	4" WHITE ACRYLIC WATERBORNE PVMT PAINT	FT	212		
47	24" WHITE ACRYLIC WATERBORNE PVMT PAINT	FT	161		
48	CROSSWALK	FT	47		
49	MIDBLOCK CROSSWALK	EACH	2		
50	LEFT ARROW PAVEMENT MARKING	EACH	2		
51	RIGHT/STRAIGHT ARROW PAVEMENT MARKING	EACH	2		
52	"STOP" WHITE LETTERING PAVEMENT MARKING	EACH	4		
	<b>SUBTOTAL</b>				
<b>MISCELLANEOUS</b>					
53	RELOCATE MAILBOX	EACH	73		
	<b>SUBTOTAL</b>				
			<b>GRAND TOTAL</b>		
<b>ADD ALTERNATES</b>					
54	SOD	ACRE	2		
	<b>SUBTOTAL</b>				

## JOB SPECIAL PROVISIONS – TABLE OF CONTENTS

(Job Special Provisions shall prevail over Specification and/or General Provisions whenever in conflict therewith)

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- E. Emergency Provisions and Incident Management
- F. Utilities
- G. Utility Appurtenance Relocate or Adjust to Grade
- H. ADA Compliance
- I. Relocate Existing Permanent Signage
- J. Relocate Existing Mailboxes
- K. Brick / Concrete Paver Driveway
- L. Entrance Monuments
- M. Fence
- N. Stone Revetment
- O. Liquidated Damages Specified



*Timothy J Meyer*

Timothy J. Meyer, P.E.

A. GENERAL - FEDERAL JSP-09-02

**1.0 Description.** The Federal Government is participating in the cost of construction of this project. All applicable Federal laws, and the regulations made pursuant to such laws, shall be observed by the contractor, and the work will be subject to the inspection of the appropriate Federal Agency in the same manner as provided in Sec 105.10 of the Missouri Standard Specifications for Highway Construction with all revisions applicable to this bid and contract.

**1.1** This contract requires payment of the prevailing hourly rate of wages for each craft or type of work required to execute the contract as determined by the Missouri Department of Labor and Industrial Relations, and requires adherence to a schedule of minimum wages as determined by the United States Department of Labor. For work performed anywhere on this project, the contractor and the contractor's subcontractors shall pay the higher of these two applicable wage rates. State Wage Rates, Information on the Required Federal Aid Provisions, and the current Federal Wage Rates are available on the Missouri Department of Transportation web page at [www.modot.mo.gov](http://www.modot.mo.gov) under "Business With MoDOT". Effective Wage Rates will be posted 10 days prior to the applicable bid opening. These supplemental bidding documents have important legal consequences. It shall be conclusively presumed that they are in the bidder's possession, and they have been reviewed and used by the bidder in the preparation of any bid submitted on this project.

**1.2** The following documents are available on the Missouri Department of Transportation web page at [www.modot.mo.gov](http://www.modot.mo.gov) under "Business With MoDOT" "Standards and Specifications". The effective version shall be determined by the letting date of the project.

Missouri Standard Specifications for Highway Construction

Standard Plans for Highway Construction

General Provisions & Supplemental Specifications

Supplemental Plans to October 2009 Missouri Std. Plans  
For Highway Construction

These supplemental bidding documents contain all current revisions to the bound printed versions and have important legal consequences. It shall be conclusively presumed that they are in the bidder's possession, and they have been reviewed and used by the bidder in the preparation of any bid submitted on this project.

Where the contract documents and the Missouri Department of Transportation's "Missouri Standard Specifications for Highway Construction", "Standard Plans for Highway Construction", "General Provisions & Supplemental Specifications" and "Supplemental Plans to October 2009 Missouri Standard Plans for Highway Construction" differ or conflict the contract documents shall take precedence and govern the contract work.

B. WORK ZONE TRAFFIC MANAGEMENT PLAN JSP-02-06A

**1.0 Description.** Work zone traffic management shall be in accordance with applicable portions of Division 100 and Division 600 of the Standard Specifications, and specifically as follows.

**2.0 Traffic Management Schedule.**

**2.1** Traffic management schedules shall be submitted to the City of Olivette for review prior to the start of work and prior to any revisions to the traffic management schedule. The traffic management schedule shall include the proposed traffic control measures, hours traffic control will be in place, and work hours.

**2.2** The contractor shall notify the City of Olivette prior to lane closures or shifting traffic onto detours.

**2.3** The City of Olivette shall be notified as soon as practical of any postponement due to weather, material or other circumstances.

**2.4** In order to ensure minimal traffic interference, the contractor shall schedule lane closures for the absolute minimum amount of time required to complete the work. Lanes shall not be closed until material is available for continuous construction and the contractor is prepared to diligently pursue the work until the closed lane is opened to traffic.

**2.5 Traffic Congestion.** The contractor shall, upon approval of the City of Olivette, take proactive measures to reduce traffic congestion in the work zone.

**2.5.1 Traffic Delay.** The contractor shall be responsible for maintaining the existing traffic flow through the job site during construction. If disruption of the traffic flow occurs and traffic is backed up in queues of 15 minute delays or longer, then the contractor shall review the construction operations which contributed directly to disruption of the traffic flow and make adjustments to the operations to prevent the queues from occurring again.

**2.5.2 Traffic Safety.**

**2.5.2.1** Where traffic queues routinely extend to within 1000 feet (300 m) of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet (150 m) of the ROAD WORK AHEAD, or similar, sign on an undivided highway, the contractor shall extend the advance warning area, as approved by the City of Olivette.

**2.5.2.2** When a traffic queue extends to within 1000 feet (300 m) of the ROAD WORK AHEAD, or similar, sign on a divided highway or to within 500 feet (150 m) of the ROAD WORK AHEAD, or similar, sign on an undivided highway due to non-recurring congestion, the contractor shall deploy a means of providing advance warning of the traffic congestion, as approved by the City of Olivette. The warning location shall be no less than 1000 feet (300 m) and no more than 0.5 mile (0.8 km)

in advance of the end of the traffic queue on divided highways and no less than 500 feet (150 m) and no more than 0.5 mile (0.8 km) in advance of the end of the traffic queue on undivided highways.

### **3.0 Work Hour Restrictions.**

**3.1** There are three major summer holiday periods: Memorial Day, Independence Day, and Labor Day. All lanes shall be scheduled to be open to traffic during these holiday periods, from 12:00 noon on the last working day preceding the holiday until 9:00 a.m. on the first working day subsequent to the holiday, unless otherwise approved by the City of Olivette.

**3.2** Working days shall be restricted to the hours of 7:00 A.M. and 7:00 P.M. Monday through Saturday in accordance with the City of Olivette's municipal code Section 500.090.

### **C. PROJECT CONTACT FOR CONTRACTOR/BIDDER QUESTIONS**

All questions concerning this project during the bidding process shall be forwarded to the project contact listed below:

*Barbara Sondag, City Manager  
9476 Olive Boulevard  
Olivette, Mo 63132  
(314) 983-5200  
bsondag@olivettemo.com*

### **D. CONSTRUCTION STAGING**

**1.0** The contractor shall not be permitted to stage materials, equipment, or employee vehicles on private streets. All materials, equipment, and employee vehicles are to be staged at Stacy Park or Irv Zied Citizen's Park.

### **E. EMERGENCY PROVISIONS AND INCIDENT MANAGEMENT JSP-90-11**

**1.0** The contractor shall have communication equipment on the construction site or immediate access to other communication systems to request assistance from the police or other emergency agencies for incident management. In case of traffic accidents or the need for police to direct or restore traffic flow through the job site, the contractor shall notify police or other emergency agencies immediately as needed. The Director of Public Services' office shall also be notified when the contractor requests emergency assistance.

**2.0** In addition to the 911 emergency telephone number for ambulance, fire or police services, the following agencies may also be notified for accident or emergency situation within the project limits.

Missouri Highway Patrol (636-300-2800)		
City of Olivette		
Fire: 314-939-0408		
Police: 314-645-3000		

**2.1** This list is not all inclusive. Notification of the need for wrecker or tow truck services will remain the responsibility of the appropriate police agency.

**2.2** The contractor shall notify enforcement and emergency agencies before the start of construction to request their cooperation and to provide coordination of services when emergencies arise during the construction at the project site. When the contractor completes this notification with enforcement and emergency agencies, a report shall be furnished to the engineer on the status of incident management.

**3.0** No direct pay will be made to the contractor to recover the cost of the communication equipment, labor, materials or time required to fulfill the above provisions.

**F. UTILITIES JSP-93-26C**

**1.0** For informational purposes only, the following is a list of names, addresses, and telephone numbers of the known utility companies in the area of the construction work for this improvement:

<u>Utility Name</u>	<u>Known Required Adjustment</u>
Ameren Missouri 1901 Chouteau Avenue St. Louis, Mo 63166 Contact: Dave Aten Telephone: 314-206-0277	Yes
Metropolitan St. Louis Sewer District 2350 Market Street St. Louis, Mo 63103 Contact: Alison Gauch Telephone: 314-768-6272	Yes
AT&T 402 North Third Street St. Charles, MO 63301 Contact: Terry Rodgers Telephone: 636-448-4621	Yes
Laclede Gas Company	

720 Olive Street  
St. Louis, MO 63101  
Contact: Ken Thaemert  
Telephone: 314-522-2297

Yes

Missouri American Water Company  
727 Craig Road  
St. Louis, MO 63141  
Contact: Mariann Klemme  
Telephone: 314-966-2302

Yes

Charter Communications  
941 Charter Commons  
Town & Country, Mo 63017  
Contact: Steve Gerrein  
Telephone: 636-387-6641

Yes

**1.1** The existence and approximate location of utility facilities known to exist, as shown on the plans, are based upon the best information available to the City of Olivette at this time. This information is provided by the City of Olivette "as-is" and the City of Olivette expressly disclaims any representation or warranty as to the completeness, accuracy, or suitability of the information for any use. Reliance upon this information is done at the risk and peril of the user, and the City of Olivette shall not be liable for any damages that may arise from any error in the information. It is, therefore, the responsibility of the contractor to verify the above listing information indicating existence, location and status of any facility. Such verification includes direct contact with the listed utilities.

**1.2** The contractor agrees that any effects of the presence of the utilities, their relocation, contractor's coordination of work with the utilities and any delay in utility relocation shall not be compensable as a suspension of work, extra work, a change in the work, as a differing site condition or otherwise including but, without limitation, delay, impact, incidental or consequential damages. The contractor's sole remedy for the effects of the presence of utilities, delay in their relocation or any other effects shall be an excusable delay as provided in Section 105.7.3. The contractor waives, for itself, its subcontractors and suppliers the compensability of the presence of utilities, delay in their relocation and any cost to the contractor, its subcontractors and suppliers in any claim or action arising out of or in relation to the work under the contract.

**1.3** The contractor shall be solely responsible and liable for incidental and consequential damage to any utility facilities or interruption of the service caused by it or its subcontractors operation. The contractor shall hold and save harmless the City of Olivette from damages to any utility facilities interruption of service by it or its subcontractor's operation.

**2.0** It shall be noted by the contractor that MoDOT is a member of Missouri One Call (800 Dig Rite). Some work on this project may be in the vicinity of MoDOT utility facilities, which includes but is not limited to traffic signal cables, highway lighting circuits, ITS cables, cathodic protection cables, etc. Prior to beginning work, the contractor shall request locates from Missouri One Call. The contractor shall also complete the Notice of Intent to Perform Work form located at the Missouri Department of Transportation website:

<http://www.modot.mo.gov/asp/intentToWork.shtml>

The contractor shall submit the form over the web (preferred method) or by fax to the numbers on the printed form. The notice must be submitted a minimum of 2 and a maximum of 10 working days prior to excavation just as Missouri One Call requires.

**3.0** Ameren Missouri owns utility poles located within the City's existing right-of-way. Ameren will relocate their utility poles, as indicated in the contract documents, at their expense. Contractor shall be required to coordinate construction operations with Ameren to ensure utility pole relocation does not delay the project.

**3.1** No direct payment will be made for incidental items necessary to complete the work, unless specifically provided as a pay item in the contract.

#### **G. UTILITY APPURTENANCE RELOCATE OR ADJUST TO GRADE**

**1.0 Description.** This work shall consist of relocating or adjusting utility appurtenances, such as valves, valve boxes, fire hydrants, etc., to new grades or to avoid interference with proposed improvements. This work shall be considered incidental to the project with no direct payment.

**1.1** Contractor shall relocate or adjust utility appurtenances to new grades, where indicated in the contract documents, in accordance with the individual utility's construction specifications.

**3.0 Basis of Payment** No direct payment will be made for incidental items necessary to complete the work, unless specifically provided as a pay item in the contract.

#### **H. AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE AND FINAL ACCEPTANCE OF CONSTRUCTED FACILITIES JSP-10-01**

**1.0 Description.** The contractor shall comply with all laws pertaining to the Americans with Disabilities Act during construction of pedestrian facilities on public rights of way for this project. An ADA Post Construction Checklist is provided herein to be utilized by the contractor for verifying compliance with the ADA law. The contractor is expected to familiarize himself with the plans involving pedestrian facilities and the ADA Post Construction Checklist prior to performing the work.

**2.0 ADA Post Construction Checklist.** The contractor can locate the ADA Inspection Checklist form on the Missouri Department of Transportation website:

[http://www.modot.mo.gov/business/contractor\\_resources/forms.htm](http://www.modot.mo.gov/business/contractor_resources/forms.htm)

**2.1** The checklist is intended to be a helpful tool for the contractor to use during the construction of the pedestrian facilities and a basis for the City of Olivette's acceptance of work. Prior to work being performed, the contractor shall bring to the engineer's attention any planned work that is in conflict with the design or with the requirement shown in the checklist. Situations may arise where the checklist may not fully address all requirements needed to construct a facility to the full requirements of current ADA law. In those situations, the contractor shall propose a solution to the engineer that is compliant with current ADA law using the following hierarchy of resources: Americans with Disabilities Act Accessibility Guidelines (ADAAG), Draft Public Rights of Way Accessibility Guidelines (PROWAG), MoDOT's Engineering Policy Guidelines (EPG), or a solution approved by the Access Board.

**2.2** It is encouraged that the contractor monitor the completed sections of the newly constructed pedestrian facilities in attempts to minimize impacts that his equipment, subcontractors or general public may have on the tolerances as established in the checklist.

### **3.0 Coordination of Construction.**

**3.1** Prior to construction and/or closure on an existing pedestrian path of travel, the contractor shall submit a schedule of work to be constructed, which includes location of work performed, the duration of time the contractor expects to impact the facility and an accessible signed pedestrian detour during each stage of construction. This plan shall be submitted to the engineer for review and approval at or prior to the pre-construction conference.

**3.2** When consultant survey is included in the contract, the contractor shall use their survey crews to verify that the intended design can be constructed to the full requirements as established in the ADAAG. When ADAAG does not give sufficient information to construct the contract work, the contractor shall refer to the Draft PROWAG.

**3.3** When consultant survey is not included in the contract, the contractor shall coordinate with the engineer, prior to construction, to determine if additional survey will be required to confirm the designs constructability.

**4.0 Final Acceptance of Work.** The contractor shall provide the completed ADA Post Construction Checklist to the engineer at the semi-final inspection. ADA improvements require final inspection and compliance with the ADA Post Construction Checklist. Each item listed in the checklist must receive either a "YES" or an "N/A" score. Any item receiving a "NO" will be deemed non-compliant and shall be corrected at the contractor's expense unless deemed otherwise by the engineer.

**5.0 Basis of Payment.** The contractor will receive full pay of the contract unit cost

for all sidewalk, ramp, curb ramp, median, island, approach work, cross walk striping, APS buttons, pedestrian heads and detectible warning systems that are completed during the current estimate period as approved by the engineer. Based upon completion of the ADA Post Construction Checklist, the contractor shall complete any necessary adjustments deemed non-compliant as directed by the engineer.

**5.1** No direct payment will be made to the contractor to recover the cost of equipment, labor, materials, or time required to fulfill the above provisions, unless specified elsewhere in the contract documents.

**5.2** No direct payment will be made to the contractor to recover the cost of the equipment, labor, materials, or time required to provide an accessible signed detour during the various stages and locations of construction.

## **I. RELOCATE EXISTING PERMANENT SIGNAGE**

**1.0 Description.** This work shall consist of removing and relocating existing permanent signage as indicated in the contract documents.

**1.1** Contractor shall reinstall existing signs in accordance with the details in the contract documents and the MoDOT Standard Drawings 903.02 and 903.03. Contractor shall remove any dirt or concrete that may adhere to the existing post prior to reinstalling at existing centerline station and new lateral location. All existing signs mounted to utility poles shall be removed prior to the utility pole being relocated and mounted to temporary frames. Upon completion of the utility pole relocation the existing sign shall be re-mounted to the utility pole at the clearance height specified as stated above.

**1.1.1** In the event an existing sign and/or post does not meet the clearance height requirements as stated in the contract documents the contractor shall notify the City of Olivette and the engineer. The City of Olivette may request a proposal to replace the post in accordance with current MoDOT signage standards for height and clearance. Any sign installed on a new post without prior approval will be done at the contractor's expense. Contractor shall not hold the City of Olivette or other entity liable for unapproved work.

**1.2** Contractor shall take all necessary precautions when removing existing signage. In the event any damage occurs to the sign and/or post the contractor shall assume all liability and shall be responsible to replace the sign and/or post at no additional cost to the City of Olivette or other entity. Contractor shall not hold the City of Olivette or other entity liable for damages to existing signs and/or posts.

**1.3** Contractor shall notify the City of Olivette and the engineer of signs and/or posts with existing damage. The City of Olivette may request a proposal to replace damaged signs and/or posts in accordance with current MoDOT signage standards for size and mounting. If sign/post replacement is approved the contractor shall replace the sign and/or post in accordance with current MoDOT standards.

**1.4** Contractor shall backfill any hole or void, created by the removal of posts or footings, to finished grade.

**2.0 Method of Measurement.** Final measurement will not be made except for authorized changes during construction, or where appreciable errors are found in the contract quantity.

**3.0 Basis of Payment.** The contractor shall receive full pay for each relocated sign at the contract unit cost for Relocate Existing Signs. No direct payment will be made for incidental items necessary to complete the work, unless specifically provided as a pay item in the contract.

**3.1** Removing dirt or concrete from posts and supplying necessary hardware shall be included in the contract unit price. No direct payment will be made for additional items or labor necessary to complete the work.

**3.2** The contractor shall receive full pay for approved sign and/or post replacement with new materials at the approved revised or amended contract price.

**3.3** No direct payment will be made to backfill any hole or void made by the removal of sign posts or footings.

## J. RELOCATE EXISTING MAILBOXES

**1.0 Description.** This work shall consist of removing and relocating existing mailboxes as indicated in the contract documents.

**1.1** Contractor shall remove and reinstall existing mailboxes in accordance with the St. Louis County Highways & Traffic Standard Drawing C608.56. More specifically the face of the mailbox shall be 6" from the face of the curb where possible, the bottom of the mailbox shall be 42"-48" from pavement. Contractor shall replace any footing with the same material at the new location. Contractor shall remove any dirt or concrete that may adhere to the existing post prior to reinstalling at existing centerline station and new lateral location. If mailbox is not immediately relocated to new location contractor shall provide for a temporary usable location.

**1.1** Contractor shall take all necessary precautions when removing existing mailbox. In the event any damage occurs to the mailbox and/or post during construction the contractor shall assume all liability and shall be responsible to replace the mailbox and/or post, in kind, at no additional cost to the City of Olivette, homeowner, or other entity. Contractor shall not hold the City of Olivette, homeowner, or other entity liable for damages to existing mailboxes and/or posts.

**1.2** Contractor shall document all existing damage to existing mailboxes with photos and written descriptions of damage, or lack thereof. Contractor shall provide copies of mailbox inspection logs to the homeowner. It will be the responsibility of the

contractor to acquire acknowledgment of any existing damage, or lack thereof, from the homeowner. The contractor shall be liable for any existing undocumented damage and shall be responsible to repair or replace the mailbox and/or post, in kind, at no additional cost to the City of Olivette, homeowner, or other entity. Contractor shall not hold the City of Olivette, homeowner, or other entity liable for undocumented damages to existing mailboxes and/or posts.

**1.3** Contractor shall backfill any hole or void, created by the removal of mailbox posts, to finished grade.

**2.0 Method of Measurement.** Final measurement will not be made except for authorized changes during construction, or where appreciable errors are found in the contract quantity.

**3.0 Basis of Payment.** The contractor shall receive full pay for each relocated mailbox at the contract unit cost for Relocate Existing Mailbox. No direct payment will be made for incidental items necessary to complete the work, unless specifically provided as a pay item in the contract.

**3.1** Removing dirt or concrete from posts and supplying necessary material or hardware shall be included in the contract unit price. No direct payment will be made for additional items or labor necessary to complete the work.

**3.2** No direct payment will be made to backfill any hole or void made by the removal of mailbox posts. No direct payment will be made for temporary installation.

K. BRICK / CONCRETE PAVER DRIVEWAY

**1.0 Description.** This work shall consist of replacing disturbed or damaged brick or concrete paver driveways with similar material of identical, or as near identical as possible, size, shape, and color. Material, size, shape, and color shall be approved by home or property owner.

**1.1** Contractor shall remove brick or concrete paver driveways to nearest joint or unit. Sawcutting brick or concrete paver driveways will not be permitted unless otherwise directed by the City of Olivette or the engineer.

**1.2** Contractor shall construct brick or concrete paver driveways, including necessary subbase and/or drainage course, in accordance with the manufacturer's specifications.

**2.0 Method of Measurement.** Final measurement will not be made except for authorized changes during construction, or where appreciable errors are found in the contract quantity.

**3.0 Basis of Payment.** The contractor shall receive full pay for each driveway completed at the contract unit cost for Brick/Concrete Paver Driveway. No direct

payment will be made for incidental items necessary to complete the work, unless specifically provided as a pay item in the contract.

#### L. ENTRANCE MONUMENTS

**1.0 Description.** This work shall consist of replacing existing entrance monumentation in kind where indicated in the contract documents. New monuments shall match the removed monuments in material, color, shape, design, foundation, inscription, landscaping, and lighting, if any.

**1.1** Contractor shall remove existing monuments and dispose of properly.

**1.3** Contractor shall construct monument to match existing to the satisfaction of the City of Olivette.

**2.0 Method of Measurement.** Final measurement will not be made except for authorized changes during construction, or where appreciable errors are found in the contract quantity.

**3.0 Basis of Payment.** The contractor shall receive full pay for each monument completed at the contract unit cost for Entrance Monuments. No direct payment will be made for incidental items necessary to complete the work, unless specifically provided as a pay item in the contract.

#### M. PEDESTRIAN FENCE

**1.0 Description.** This work shall consist of installing permanent metal or wood fence where indicated in the contract documents.

**2.0 Material.** The material for metal fence shall be black aluminum with a minimum nominal height of 36". Panels shall have a minimum of two (2) rails, top and bottom. Pickets shall be 5/8" square and spaced per local code. Pickets shall not extend above top rail. Posts shall be a minimum 2" x 2" x 0.060" and spaced no more than 72" OC. Fence panels, posts, and footings shall be installed in accordance with the manufacturer's specifications.

**2.0.1** The material for wood fence shall match existing wood fence indicated to be moved in the contract documents. If existing components, posts or rails, are deemed unusable new materials shall match nominal dimensions, wood species, and configuration of the existing fence. Moved or new fence to be installed in similar, or better, fashion than the existing.

**3.0 Method of Measurement.** Final measurement will not be made except for authorized changes during construction, or where appreciable errors are found in the contract quantity.

**4.0 Basis of Payment.** The contractor shall receive full pay for the contract unit cost

for all fence completed at the contract unit cost per foot for Pedestrian Fence. No direct payment will be made for incidental items necessary to complete the work, unless specifically provided as a pay item in the contract.

#### N. STONE REVETMENT

**1.0 Description.** This work shall consist of constructing a protective blanket of rock or crushed limestone at a storm water discharge point as indicated in the contract documents.

**2.0 Material.** The material for stone revetment shall be stone or crushed limestone. All stone or crushed limestone shall be sound, durable, and free from cracks and other structural defects that would cause it to deteriorate. It shall not contain any soapstone, shale, or other material easily disintegrated.

**2.1** All stones shall be at least 7 inches in size and shall not weigh less than 25 pounds, and at least 75 percent shall weigh not less than 50 pounds.

**3.0 Construction Requirements.** A 1 foot deep trench shall be excavated to the dimensions shown on the plans. A toe wall shall be constructed on the down stream end of the revetment extending 2 feet from the finished grade with a minimum length of 12 inches. The rock shall be placed and manipulated such that most of the flat sides are in contact, thereby eliminating large voids. The finished surface of the revetment shall represent an appearance free from segregation and with a proportionate quantity of the larger pieces showing.

**4.0 Method of Measurement.** Measurement will be made to the nearest one-half cubic yard of material in place in the completed stone revetment.

**5.0 Basis of Payment.** Contractor shall provide the material, and all costs of securing the source, quarrying, excavating, breaking and hauling the material to the site will be paid for and completely covered by the contract unit price per one-half cubic yard for Stone Revetment. No direct payment will be made for excavation, backfilling, or other incidental items necessary to complete the work, unless specifically provided as a pay item in the contract.

#### K. LIQUIDATED DAMAGES SPECIFIED JSP-93-28

**1.0 Description.** If final paving operations and new sidewalks are not complete and open to traffic by the completion date stated in the "Notice to Contractors", the City of Olivette, the traveling public, and state and local police and governmental authorities will be damaged in various ways, including but not limited to, increased construction administration cost, potential liability, traffic and traffic flow regulation cost, traffic congestion and motorist delay, with its resulting cost to the traveling public. These damages are not reasonably capable of being computed or quantified. Therefore, the contractor will be charged with liquidated damages specified in the

amount of \$1,100.00 per day for each full day that final paving operations and new sidewalks are not complete and open to traffic in excess of the limitation as specified elsewhere in this special provision. It shall be the responsibility of the engineer to determine the quantity of excess closure time.

**1.1** The said liquidated damages specified will be assessed regardless if whether it would otherwise be charged as liquidated damages under the Missouri Standard Specification for Highway Construction, as amended elsewhere in this contract.

REMOVAL OF IMPROVEMENTS									
SHEET NO.	ITEM	LT/RT	STA TO STA	LENGTH (LIN. FT)	WIDTH (FT)	AREA (SQYD)	EACH	REMARKS	
PP001	SIDEWALK	LT	10+83.23	11+07.03	23.8	4.0	10.6		
PP001	CURB & GUTTER	LT	10+83.59	11+06.39	30.0				
PP001	SIDEWALK	RT	11+09.10	15+80.00	322.4				
PP001	SIDEWALK	LT	11+59.17	11+78.53	19.4	4.0	8.6		
PP001	CURB & GUTTER	LT	11+54.19	14+39.90	323.8			INCLUDES HASTINGS DR	
PP001	ENTRANCE	LT	11+89.80						
PP001	SIDEWALK	LT	11+89.64	12+28.11	29.5	VARIES	26.2		
PP001	ENTRANCE	LT	12+40.10						
PP001	SIDEWALK	LT	12+52.89	12+82.00	29.1	4.0	12.9		
PP001	ENTRANCE	LT	12+93.40						
PP001	SIDEWALK	LT	13+05.83	14+33.30	127.5	3.0	42.5		
PP001	DRIVEWAY	LT	13+89.40						
PP001	CURB INLET	RT	14+10.91					1	
PP001	CURB & GUTTER	LT	14+64.82	15+80.00	147.4				INCLUDES HASTINGS DR
PP001	SIDEWALK	LT	14+71.52	15+80.00	108.5	3.0	36.2		
PP002	CURB & GUTTER	RT	15+80.00	21+60.00	580.0				
PP002	CURB & GUTTER	LT	15+80.00	18+67.81	298.6				INCLUDES LINDLEY DR
PP002	SIDEWALK	LT	15+80.00	18+48.21	268.2	3.0	89.4		
PP002	CURB INLET	RT	15+89.91					1	
PP002	SIDEWALK	LT	18+48.21	18+62.81	14.6	4.3	6.9		
PP002	CURB & GUTTER	LT	18+62.81	19+29.28	66.1				INCLUDES LINDLEY DR
PP002	SIDEWALK	LT	18+94.29	19+22.86	28.6	3.0	9.5		
PP002	CURB INLET	RT	20+55.18					1	
PP002	CURB & GUTTER	LT	19+47.28	21+60.00	225.7				INCLUDES LINDLEY DR
PP002	SIDEWALK	LT	19+53.63	21+60.00	206.4	3.0	68.8		
PP003	CURB & GUTTER	RT	21+60.00	27+01.28	573.7				INCLUDES BONHOMME ESTATES DR
PP003	CURB & GUTTER	LT	21+60.00	27+20.00	580.0				
PP003	SIDEWALK	LT	21+60.00	23+16.45	159.1	3.0	53.0		
PP003	ENTRANCE	RT	22+82.36						
PP003	SCHOOL ENT	LT	23+35.23						
PP003	SIDEWALK	RT	23+35.32		16.0	VARIES	10.1		
PP003	SIDEWALK	LT	23+58.85	24+91.91	133.1	5.0	73.9		
PP003	SCHOOL ENT	LT	25+25.30						
PP003	SIDEWALK	LT	25+46.88	27+20.00	173.1	5.0	96.2		
PP004	CURB & GUTTER	RT	27+13.57	27+85.10	118.0				INCLUDES BONHOMME ESTATES DR & HEATHER HILL LN
PP004	CURB & GUTTER	LT	27+20.00	32+40.00	520.0				
PP004	SIDEWALK	LT	27+20.00	29+12.00	192.0	5.0	106.7		
PP004	SIDEWALK	RT	27+23.73	27+77.85	79.7	3.0	26.6		
PP004	CURB & GUTTER	RT	28+05.90	32+00.00	400.3				INCLUDES HEATHER HILL LN & STONEY SIDE LN
PP004	SIDEWALK	RT	28+09.00	31+93.17	384.2	3.0	128.1		
PP004	SCHOOL ENT	LT	29+23.60						
PP004	DRIVEWAY	RT	29+23.60						
PP004	SIDEWALK	LT	29+31.73	29+65.33	33.6	VARIES	30.6		
PP004	DRIVEWAY	RT	29+69.46						
PP004	SIDEWALK	LT	29+65.33	32+40.00	274.7	3.0	91.6		
PP004	DRIVEWAY	RT	31+64.50						
PP004	SCHOOL ENT	L	32+18.75						
PP005	CURB & GUTTER	RT	32+34.13	33+74.30	156.1				INCLUDES STONEY SIDE LN & DOWNEY LN
PP005	SIDEWALK	RT	32+38.65	33+65.96	127.3	3.0	42.4		
PP005	CURB & GUTTER	LT	32+40.00	38+20.00	580.0				
PP005	SIDEWALK	LT	32+40.00	38+20.00	580.0	3.0	193.3		
PP005	DRIVEWAY	LT	33+50.00						
PP005	CURB & GUTTER	RT	33+93.14	38+20.00	411.9				INCLUDES DOWNEY LN
PP005	SIDEWALK	RT	33+96.80	38+20.00	423.2	3.0	141.1		
PP005	DRIVEWAY	LT	34+21.50						
PP005	DRIVEWAY	LT	34+62.71						
PP005	DRIVEWAY	LT	35+38.30						
PP005	DRIVEWAY	RT	36+26.60						
PP005	DRIVEWAY	LT	36+43.40						
PP005	DRIVEWAY	LT	36+77.00						
PP005	DRIVEWAY	RT	37+20.00						
PP005	DRIVEWAY	LT	37+46.40						
PP005	DRIVEWAY	RT	38+07.70						
PP006	CURB & GUTTER	LT	38+20.00	39+61.27	141.8				INCLUDES HOMESTEAD ACRES ST
PP006	SIDEWALK	LT	38+20.00	38+56.00	36.0	3.0	12.0		
PP006	CURB & GUTTER	RT	38+20.00	41+26.24	306.2				INCLUDES BEECHMONT CT
PP006	SIDEWALK	RT	38+20.00	41+23.50	303.5	3.0	101.2		
PP006	DRIVEWAY	RT	39+00.00						
PP006	DRIVEWAY	RT	39+60.50						
PP006	CURB & GUTTER	LT	40+00.00	43+60.00	342.4				INCLUDES HOMESTEAD ACRES ST
PP006	SIDEWALK	LT	40+03.20	43+60.00	356.8	3.0	118.9		
PP006	DRIVEWAY	RT	40+52.30						
PP006	CURB & GUTTER	RT	41+51.70	43+60.00	215.3				INCLUDES BEECHMONT CT
PP006	SIDEWALK	RT	41+52.60	43+60.00	207.4	3.0	69.1		
PP006	DRIVEWAY	LT	42+04.25						
PP006	DRIVEWAY	RT	42+68.85						
PP006	DRIVEWAY	RT	43+54.20						
PP007	CURB & GUTTER	LT	43+60.00	45+08.55	157.3				INCLUDES LYNNE CT
PP007	SIDEWALK	LT	43+60.00	45+08.90	148.9	3.0	49.6		
PP007	CURB & GUTTER	RT	43+60.00	48+46.65	494.7				INCLUDES ARBOR RD
PP007	SIDEWALK	RT	43+60.00	48+42.00	482.0	3.0	160.7		
PP007	DRIVEWAY	LT	44+93.77						
PP007	DRIVEWAY	RT	45+06.50						
PP007	SIDEWALK	RT	45+19.63	48+41.96	322.3	3.0	107.4		
PP007	CURB & GUTTER	LT	45+32.67	49+40.00	415.0				INCLUDES LYNNE CT
PP007	SIDEWALK	LT	45+41.54	49+40.00	398.5	3.0	132.8		
PP007	CURB INLET	RT	46+25.30					1	
PP007	15" VCP	RT	46+25.30		29.6				
PP007	DRIVEWAY	LT	46+52.50						
PP007	DRIVEWAY	LT	47+02.65						
PP007	DRIVEWAY	LT	48+34.85						
PP007	DRIVEWAY	LT	48+57.30						
PP007	CURB & GUTTER	RT	48+66.29	49+40.00	82.6				INCLUDES ARBOR RD
PP007	SIDEWALK	RT	48+67.61	49+40.00	72.4	3.0	24.1		
PP008	CURB & GUTTER	LT	49+40.00	51+08.85	182.3				INCLUDES PLANTERS DR
PP008	SIDEWALK	LT	49+40.00	50+99.80	159.8	3.0	53.3		
PP008	CURB & GUTTER	RT	49+40.00	52+66.07	341.1				INCLUDES BEAUWOOD CT
PP008	SIDEWALK	RT	49+40.00	52+45.54	305.5	3.0	101.8		
PP008	DRIVEWAY	RT	49+58.60						
PP008	DRIVEWAY	RT	50+12.50						
PP008	DRIVEWAY	RT	50+73.00						
PP008	CURB & GUTTER	LT	51+34.14	53+51.15	224.5				INCLUDES BONHOMME WOODS DR
PP008	SIDEWALK	LT	51+44.90	53+44.90	200.0	3.0	66.7		
PP008	DRIVEWAY	RT	51+46.30						
PP008	DRIVEWAY	LT	52+73.20						
PP008	CURB & GUTTER	RT	52+92.88	55+00.00	225.3				INCLUDES BEAUWOOD CT
PP008	SIDEWALK	RT	53+01.50	55+00.00	198.5	3.0	66.2		
PP008	CURB & GUTTER	LT	53+76.36	55+00.00	137.6				INCLUDES BONHOMME WOODS DR
PP008	SIDEWALK	LT	53+87.88	55+00.00	112.1	3.0	37.4		
PP008	DRIVEWAY	LT	54+53.10						

REMOVAL OF IMPROVEMENTS									
SHEET NO.	ITEM	LT/RT	STA TO STA	LENGTH (LIN. FT)	WIDTH (FT)	AREA (SQYD)	EACH	REMARKS	
PP009	CURB & GUTTER	LT	55+00.00	58+86.97	208.3				INCLUDES BONHOMME FOREST DR
PP009	SIDEWALK	LT	55+00.00	58+71.91	171.9	3.0	57.3		
PP009	CURB & GUTTER	RT	55+00.00	56+31.16	41.3				INCLUDES JACKLYNN CT
PP009	SIDEWALK	RT	55+00.00	55+24.80	24.8	3.0	8.3		
PP009	CURB & GUTTER	RT	55+48.27	60+80.00	539.7				INCLUDES JACKLYNN CT
PP009	CURB & GUTTER	LT	57+14.15	60+80.00	381.0				INCLUDES BONHOMME FOREST DR
PP009	DRIVEWAY	RT	57+38.70						
PP009	DRIVEWAY	LT	58+11.10						
PP009	DRIVEWAY	LT	59+00.00						
PP009	DRIVEWAY	RT	59+05.40						
PP009	DRIVEWAY	LT	59+70.20						
PP009	DRIVEWAY	RT	60+61.00						
PP010	CURB & GUTTER	LT	60+80.00	62+80.63	222.2				INCLUDES WHITE ROSE LN
PP010	SIDEWALK	LT	60+80.00	62+54.60	174.6	3.0	58.2		
PP010	CURB & GUTTER	RT	60+80.00	66+40.00	560.0				
PP010	DRIVEWAY	LT	60+84.20						
PP010	DRIVEWAY	LT	62+24.30						
PP010	CURB & GUTTER	LT	63+07.86	66+40.00	356.2				INCLUDES WHITE ROSE LN
PP010	SIDEWALK	LT	63+35.10	66+40.00	304.9	3.0	101.6		
PP010	DRIVEWAY	LT	63+68.90						
PP010	DRIVEWAY	RT	64+70.00						
PP010	DRIVEWAY	LT	65+10.00						
PP011	CURB & GUTTER	LT	68+40.00	68+76.38	252.6				INCLUDES DIELMAN DR
PP011	SIDEWALK	LT	68+40.00	68+61.40	21.2	3.0	73.8		
PP011	CURB & GUTTER	RT	66+40.00	68+76.23	257.2				INCLUDES DIELMAN DR
PP011	DRIVEWAY	RT	66+50.00						
PP011	DRIVEWAY	RT	67+61.50						
PP011	DRIVEWAY	LT	67+61.50						
PP011	CURB & GUTTER	LT	69+01.15	72+20.00	337.6				INCLUDES DIELMAN DR
PP011	SIDEWALK	LT	69+01.65	69+22.95	37.8	VARIES	17.8		
PP011	CURB & GUTTER	RT	69+04.07	72+20.00	335.5				INCLUDES DIELMAN DR
PP011	SIDEWALK	RT	69+05.97	69+38.64	40.7	VARIES	16.5		
PP011	SIDEWALK	LT	69+22.95	72+20.00	297.1	3.0	99.0		
PP011	SIDEWALK	RT	69+38.64	72+20.00	281.4	3.0	93.8		
PP011	DRIVEWAY	LT	70+27.50						
PP011	DRIVEWAY	RT	70+34.70						
PP011	DRIVEWAY	LT	70+97.50						
PP011	DRIVEWAY	LT	71+02.65						
PP011	DRIVEWAY	LT	71+24.20						
PP011	DRIVEWAY	RT	71+27.10						
PP011	DRIVEWAY	RT	72+12.60						
PP012	CURB & GUTTER	LT	72+20.00	73+72.83	172.6				INCLUDES CHAR BEA LN

SHEET NO.	LT/RT	STA TO STA		SIDEWALK		REMARKS
		LENGTH (LIN FT)	WIDTH (FT)	AREA (SQYD)		
PP001	LT	10+85.36	10+93.01	7.65	5	4.3
PP001	RT	11+13.60	13+95.53	295.83	6	197.2
PP001	LT	11+67.11	11+78.52	11.41	4	6.2 INCLUDES PASSING AREA
PP001	LT	11+98.60	12+28.13	29.53	4	13.1
PP001	LT	12+50.94	12+83.27	32.33	4	14.4
PP001	LT	13+06.28	13+82.57	76.29	4	35.0 INCLUDES PASSING AREA
PP001	LT	13+95.23	14+17.76	22.53	4	10.0
PP001	RT	13+95.53	15+80.00	184.47	5	102.5
PP001	LT	14+81.79	15+80.00	98.21	4	44.7 INCLUDES PASSING AREA
PP002	LT	15+80.00	16+47.68	67.68	4	30.1
PP002	RT	15+80.00	21+60.00	580.00	5	322.2
PP002	LT	16+56.37	18+52.92	196.55	4	88.5 INCLUDES PASSING AREA
PP002	LT	19+02.08	19+13.33	11.25	4	6.1 INCLUDES PASSING AREA
PP002	LT	19+61.74	21+60.00	199.51	4	88.8 INCLUDES PASSING AREA
PP003	LT	21+60.00	22+76.63	116.63	4	51.8
PP003	RT	21+60.00	22+63.98	103.98	5	57.8
PP003	LT	22+76.63	23+16.45	40.63	VARIES	28.2
PP003	RT	23+03.86	23+32.71	28.85	5	16.0
PP003	RT	23+32.71	23+37.73	5.02	VARIES	10.1
PP003	RT	23+37.73	26+98.82	387.31	5	215.2
PP003	LT	23+60.65	24+90.06	129.41	5	71.9
PP003	LT	25+46.74	27+20.00	173.26	5	83.4
PP004	LT	27+20.00	29+09.91	189.91	5	95.2
PP004	RT	27+23.73	27+66.16	64.98	VARIES	28.5
PP004	RT	28+14.70	29+17.73	103.03	VARIES	48.5 INCLUDES PASSING AREA
PP004	RT	29+29.37	29+61.15	31.78	4	14.1
PP004	LT	29+31.73	29+64.32	42.00	VARIES	29.6
PP004	LT	29+64.32	32+01.20	236.88	4	109.1 INCLUDES PASSING AREA
PP004	RT	29+74.87	31+53.87	179.00	4	80.9 INCLUDES PASSING AREA
PP004	RT	31+73.46	31+84.10	10.64	4	4.7
PP004	LT	32+35.84	32+40.00	4.16	4	1.8
PP005	LT	32+40.00	33+35.13	95.13	4	42.3
PP005	RT	32+46.04	33+56.92	110.88	4	50.4 INCLUDES PASSING AREA
PP005	LT	33+58.37	34+13.68	55.31	4	25.7 INCLUDES PASSING AREA
PP005	RT	34+04.04	36+18.55	214.51	4	96.4 INCLUDES PASSING AREA
PP005	LT	34+29.14	34+56.58	27.44	4	12.2
PP005	LT	34+72.08	35+31.12	59.04	4	26.2
PP005	LT	35+47.10	36+34.82	87.72	4	40.1 INCLUDES PASSING AREA
PP005	RT	36+33.94	37+03.29	69.35	4	30.8
PP005	LT	36+51.25	36+69.87	18.62	4	8.3
PP005	LT	36+83.82	37+40.37	56.55	4	25.1
PP005	RT	37+35.79	37+99.75	63.96	4	29.5 INCLUDES PASSING AREA
PP005	LT	37+52.83	38+20.00	67.17	4	31.0 INCLUDES PASSING AREA
PP005	RT	38+15.14	38+20.00	4.86	4	2.2
PP006	LT	38+20.00	39+48.30	128.30	4	57.0
PP006	RT	38+20.00	38+94.21	74.21	4	33.0
PP006	RT	39+05.71	39+51.34	45.63	4	20.3
PP006	RT	39+67.74	40+46.89	79.15	4	36.3 INCLUDES PASSING AREA
PP006	LT	40+11.91	41+99.95	188.04	4	83.6 INCLUDES TWO PASSING AREAS
PP006	RT	40+57.66	41+14.50	56.84	4	26.2
PP006	RT	41+58.29	42+63.20	104.91	4	47.9 INCLUDES PASSING AREA
PP006	LT	42+10.16	43+60.00	134.89	4	60.0
PP006	RT	42+76.62	43+46.59	70.97	4	31.5
PP007	LT	43+60.00	45+01.31	141.31	4	63.9 INCLUDES PASSING AREA
PP007	RT	43+62.13	43+68.67	6.54	4	2.9
PP007	RT	43+84.83	44+97.30	112.47	4	51.1 INCLUDES PASSING AREA
PP007	RT	45+16.46	46+92.32	175.86	4	79.3 INCLUDES PASSING AREA
PP007	RT	45+16.46	45+38.96	25.30	3.5	9.8 REMOVE AND REPLACE PRIVATE SDWK
PP007	LT	45+49.64	46+46.64	97.00	4	44.2 INCLUDES PASSING AREA
PP007	LT	46+57.72	48+29.61	171.89	4	77.5 INCLUDES PASSING AREA
PP007	RT	47+11.58	48+34.66	123.08	4	55.8 INCLUDES PASSING AREA
PP007	LT	48+41.55	48+58.41	16.86	4	7.5
PP007	RT	48+74.38	49+40.00	65.62	4	29.2
PP007	LT	48+78.55	49+40.00	61.45	4	27.3
PP008	LT	49+40.00	50+88.96	148.96	4	67.3 INCLUDES PASSING AREA
PP008	RT	49+40.00	49+51.65	11.65	4	5.2
PP008	RT	49+65.39	50+04.29	38.90	4	18.4 INCLUDES PASSING AREA
PP008	RT	50+20.19	50+64.47	44.28	4	19.7
PP008	RT	50+79.84	51+37.69	57.85	4	25.7
PP008	RT	51+53.68	52+33.36	79.68	4	37.9 INCLUDES PASSING AREA
PP008	LT	51+54.10	52+66.70	112.60	4	49.8 INCLUDES PASSING AREA
PP008	LT	52+82.89	53+35.94	53.05	4	23.6
PP008	RT	53+10.26	53+59.06	48.80	4	21.7
PP008	RT	53+71.06	55+00.00	128.94	4	59.1 INCLUDES PASSING AREA
PP008	LT	53+94.92	54+49.06	54.14	4	25.2 INCLUDES PASSING AREA
PP008	LT	54+57.49	55+00.00	42.51	4	18.9
PP009	LT	55+00.00	56+66.11	166.11	4	74.9 INCLUDES PASSING AREA
PP009	RT	55+00.00	55+15.61	15.61	4	6.9
PP009	RT	55+63.58	57+30.63	167.45	4	75.5 INCLUDES PASSING AREA
PP009	LT	57+37.11	58+74.61	137.50	4	62.2 INCLUDES PASSING AREA
PP009	RT	57+46.57	58+90.93	144.36	4	65.3 INCLUDES PASSING AREA
PP009	LT	58+90.94	58+95.24	4.30	4	1.9
PP009	LT	59+04.86	59+59.33	54.47	4	24.2
PP009	RT	59+21.60	60+54.75	133.15	4	60.3 INCLUDES PASSING AREA
PP009	LT	59+80.03	60+80.00	99.97	4	45.5 INCLUDES PASSING AREA
PP009	RT	60+67.21	60+80.00	12.79	4	5.7
PP010	LT	60+80.00	60+87.69	7.69	4	3.4
PP010	RT	60+80.00	64+60.93	380.93	4	170.4 INCLUDES PASSING AREA
PP010	LT	61+02.34	62+15.94	113.60	4	51.6 INCLUDES PASSING AREA
PP010	LT	62+32.21	62+37.28	5.07	4	2.3
PP010	LT	63+39.40	63+60.65	21.25	4	10.5 INCLUDES PASSING AREA
PP010	LT	63+76.37	65+83.99	207.62	4	93.4 INCLUDES PASSING AREA
PP010	RT	64+78.88	66+39.67	160.79	4	72.6 INCLUDES PASSING AREA
PP010	LT	65+96.05	66+06.19	10.14	4	5.7
PP010	LT	66+14.08	66+40.00	26.45	4	11.8
PP011	LT	66+40.00	67+52.62	112.62	4	51.2 INCLUDES PASSING AREA
PP011	RT	66+62.79	67+39.59	76.80	4	34.1
PP011	RT	67+66.05	68+51.67	86.05	4	39.3 INCLUDES PASSING AREA
PP011	LT	67+69.22	68+49.28	80.06	4	36.7 INCLUDES PASSING AREA
PP011	LT	69+03.65	69+04.81	9.33	VARIES	4.9
PP011	LT	69+14.28	70+20.39	106.11	VARIES	50.2 INCLUDES PASSING AREA
PP011	RT	69+27.87	70+28.90	101.03	4	46.0 INCLUDES PASSING AREA
PP011	LT	70+33.02	70+95.85	62.83	4	27.9
PP011	RT	70+40.92	70+91.35	50.43	4	22.4
PP011	RT	71+02.99	71+21.22	18.23	4	8.1

SHEET NO.	LT/RT	STA TO STA		SIDEWALK		REMARKS
		LENGTH (LIN FT)	WIDTH (FT)	AREA (SQYD)		
PP011	LT	71+09.01	71+18.11	9.10	4	4.0
PP011	LT	71+30.85	72+20.00	89.15	4	40.7 INCLUDES PASSING AREA
PP011	RT	71+32.55	72+06.41	73.86	4	33.9 INCLUDES PASSING AREA
PP011	RT	72+18.37	72+20.00	1.63	4	0.7
PP012	LT	72+20.00	73+47.78	127.80	4	57.9 INCLUDES PASSING AREA
PP012	RT	72+20.00	73+46.08	126.39	4	57.3 INCLUDES PASSING AREA
PP012	LT	74+23.34	75+53.37	130.16	4	58.9 INCLUDES PASSING AREA
PP012	RT	74+34.30	76+40.68	206.38	4	92.8 INCLUDES PASSING AREA
PP012	LT	75+63.67	76+49.43	85.76	4	38.1
PP012	LT	76+59.45	77+90.07	130.73	4	59.2 INCLUDES PASSING AREA
PP012	RT	76+95.81	77+73.49	77.68	4	35.6 INCLUDES PASSING AREA
PP012	RT	77+83.28	78+00.00	16.72	4	7.4
PP013	RT	78+00.00	78+82.56	82.56	4	37.8 INCLUDES PASSING AREA
PP013	LT	78+45.71	79+90.48	144.88	4	65.5 INCLUDES PASSING AREA
PP013	RT	79+38.09	80+07.73	69.64	4	31.0
PP013	RT	80+21.42	82+08.07	186.65	4	86.6 INCLUDES PASSING AREA
PP013	LT	80+31.47	81+03.56	72.09	4	29.8
PP013	LT	81+16.72	82+06.84	90.12	4	41.2 INCLUDES PASSING AREA
PP013	LT	82+25.73	82+77.28	51.55	4	22.9
PP013	RT	82+27.24	82+64.03	36.79	4	16.4
PP013	RT	82+90.97	83+30.90	49.93	4	23.3 INCLUDES PASSING AREA
PP013	LT	82+88.08	83+51.83	63.75	4	28.3
PP014	LT	83+62.69	83+90.03	27.34	4	13.3 INCLUDES PASSING AREA
PP014	RT	83+81.30	85+28.78	147.48	4	66.6 INCLUDES PASSING AREA
PP014	LT	84+03.58	85+41.74	138.16	4	62.5 INCLUDES PASSING AREA
PP014	RT	85+41.84	86+72.10	130.26	4	57.9
PP014	LT	85+96.89	87+04.80	107.91	4	48.0
PP014	RT	86+81.60	87+44.99	63.39	4	29.3 INCLUDES PASSING AREA
PP014	LT	87+30.26	87+40.87	10.61	4	5.8 INCLUDES PASSING AREA
PP014	RT	87+53.57	88+39.84	86.27	4	38.3
PP014	RT	87+59.80	88+03.07	43.27	4	19.2
PP014	RT	88+16.91	88+70.71	53.80	4	23.9
PP014	LT	88+57.18	88+87.01	29.83	4	13.3
PP014	RT	88+86.69	89+30.97	45.18	VARIES	21.1 INCLUDES PASSING AREA
PP014	LT	88+99.39	89+40.00	40.61	4	18.9 INCLUDES PASSING AREA
PP015	LT	89+40.00	90+52.99	112.99	4	50.5
PP015	RT	89+42.34	90+44.88	102.54	4	45.6
PP015	RT	90+56.89	91+44.51	87.62	4	40.0 INCLUDES PASSING AREA
PP015	LT	90+72.29	90+83.59	11.30	4	5.0
PP015	LT	90+99.61	92+48.28	148.67	4	67.2 INCLUDES PASSING AREA
PP015	RT	91+60.73	92+04.74	44.01	4	19.6
PP015	RT	92+24.36	92+66.66	42.30	4	18.8
PP015	LT	92+67.16	95+20.00	252.84	4	113.5 INCLUDES PASSING AREA
PP015	RT	92+85.11	93+38.02	52.91	4	24.6 INCLUDES PASSING AREA
PP015	RT	93+49.87	93+67.23	17.36	4	7.7
PP015	RT	93+76.55	94+15.11	38.56	4	17.1
PP015	RT	94+31.84	95+20.00	88.16	4	40.3 INCLUDES PASSING AREA
PP016	LT	95+20.00	95+90.81	70.81	4	32.6 INCLUDES PASSING AREA
PP016	RT	95+20.00	95+73.76	53.76	4	23.9
PP016	RT	95+85.43	95+85.89	15.13	VARIES	8.9
PP016	LT	96+05.49	96+14.61	2017.00	VARIES	11.2
TOTAL						6526.8

CONCRETE CURB (SIDEWALK TYPE "A" - SEE DETAIL SHEET CD001)					
SHEET NO.	LT/RT	STA TO STA	LENGTH (LIN FT)	REMARKS	
PP005	RT	36+33.94	37+00.00	66.06	
PP009	LT	55+35.00	55+95.00	60.00	
PP015-16	LT	95+10.00	95+90.81	80.81	
TOTAL					206.87

SEGMENTAL UNIT RETAINING WALLS						
SHEET NO.	WALL ID	LT/RT	STA TO STA	LENGTH (FT)	FACE AREA (SQFT)	REMARKS
PP001	A	RT	11+16.24	13+78.14	275.82	

TEMPORARY EROSION CONTROL						
SHEET NO.	LT/RT	STA TO STA	SILT FENCE LENGTH (LIN FT)	FIBER ROLL LENGTH (LIN FT)	REMARKS	
EC001	LT	11+99	12+25	30		
EC001	LT	12+52	12+54	32		
EC001	RT	13+73		20		
EC001	RT	14+11		25		
EC001	LT	14+14		20		
EC001	RT	15+90		20		
EC001	LT	15+91		20		
EC001	RT	16+03		20		
EC001	LT	16+73		20		
EC001/EC002	LT	20+00	22+65	294		
EC001/EC002	LT	20+50	23+15	266		
EC001	RT	20+55		25		
EC001	RT	20+72		20		
EC002	RT	23+03	23+33	30		
EC002	RT	23+38	24+00	62		
EC002	LT	23+53	24+92	142		
EC002	RT	26+50	26+94	65		
EC002	RT	27+25	27+85	88		
EC002	LT	29+44	32+00	266		
EC003	LT	34+29	34+55	26		
EC003	LT	36+49	36+70	20		
EC003	LT	36+84	37+40	57		
EC003	LT	37+53	39+61	200		
EC003	LT	38+71		20		
EC003	RT	38+72		20		
EC004	RT	43+84	45+10	141		
EC004	RT	45+16	45+20	11		
EC004	RT	45+31	46+73	142		
EC004	LT	46+25		20		
EC004	RT	46+25		20		
EC004	LT	51+35	53+51	224		
EC004/EC005	LT	54+57	56+86	239		
EC005	RT	55+10		20		
EC005	LT	56+11		20		
EC005	RT	56+11		20		
EC005	RT	56+75	57+31	56		
EC005	RT	57+46	58+00	56		
EC005	LT	57+47		20		
EC005	LT	62+32	62+50	58		
EC005	LT	65+25	65+86	61		
EC006	LT	67+25	67+54	29		
EC006	LT	68+45		20		
EC006	RT	68+45		20		
EC006	RT	72+18	73+75	163		
EC006	LT	73+20	73+72	59		
EC006	RT	73+34		20		
EC006	LT	73+62		20		
EC006	RT	74+05	76+56	258		
EC006	LT	74+10		20		
EC006	RT	76+31		20		
EC006	RT	76+82	77+73	93		
EC006/EC007	RT	77+83	78+98	118		
EC006	LT	78+00		20		
EC007	LT	78+35		20		
EC007	RT	78+70		20		
EC007	RT	79+24	80+00	79		
EC007	LT	82+25	82+77	60		
EC007	LT	82+90	83+52	64		
EC007	LT	83+63	83+90	27		
EC007	RT	83+88		20		
EC007	LT	84+04	85+58	159		
EC007	LT	85+45		20		
EC007	LT	85+84	87+11	141		
EC007	LT	87+07		20		
EC007	LT	87+31	87+42	11		
EC007	LT	87+32		20		
EC007	RT	87+36		25		
EC007	LT	88+56	88+87	32		
EC007/EC008	LT	88+99	90+53	154		
EC008	LT	90+72	90+83	12		
EC008	RT	94+32	95+84	168		
TOTALS				4193	635	

STORM SEWERS																
SHEET NO.	STRUCT TO STRUCT	STA	OFFSET	LT/RT	DOUBLE INLET (EACH)	CURB INLET (EACH)	AREA INLET (EACH)	2 GRATE INLET (EACH)	FES (EACH)	SIZE (IN)	SILL ELEV.	FLOWLINE ELEV.	PIPE SIZE (IN)	LENGTH (FT)	STONE REV/TMT (CUYD)	REMARKS
PP001	AI 1	EX-1	13+72.91	26.64	RT						700.12	696.12	12	37		
PP001	EX-1		14+10.91	15.90	RT	1					697.44	692.16	12	16		
PP002	AI 2	17M2-229D	16+03.20	23.40	RT						695.85	691.85	12	16		
PP002	17M2-229D		15+89.91	16.27	RT		1				693.74	689.63	12	22		
PP002	AI 3	17M2-270D	20+71.90	33.11	RT	1		1			697.79	693.79	12	22		
PP002	17M2-270D		20+55.18	16.56	RT						696.47	691.74	12	17		
PP007	CI 5	FE 4	46+25.30	15.74	RT		1				692.39	685.21	12	17		
PP007	FE 4		46+25.36	32.54	RT				1	12	698.47	684.87			2.5	
PP014	2AI 6	17L3-107D	87+07.14	31.71	LT						619.53	614.70	12	29		
PP014	17L3-107D		87+32.05	16.08	LT		1				619.43	611.25				
TOTALS					2	3	3	1	1				121	2.5		

PAVEMENT MARKING											
SHEET NO.	LT/RT	STA TO STA	4" DOUBLE YELLOW (LIN FT)	4" WHITE (LIN FT)	24" WHITE STOPBAR (LIN FT)	"STOP" LETTERING (EACH)	CROSSWALK (LIN FT)	MIDBLOCK CROSSWALK (EACH)	LEFT ARROW (EACH)	RIGHT/STRAIGHT ARROW (EACH)	REMARKS
PM001		10+79.89	11+00.15								
PM001	LT	10+99.36			29.1		46.8				
PM001	LT	11+01.28	13+13.72	212.4							
PM001	LT	10+99.22	21+60.00	1061.5							
PM001	LT	11+25.00									
PM001	LT	12+00.00									
PM002	RT	21+60.00	22+52.38	92.4							
PM002	RT	22+52.39			12.0	1					
PM002	RT	23+10.00	23+39.44								
PM002	LT	23+64.40			12.0	1		1			
PM002	RT	23+64.00	26+48.80	284.8							
PM002	RT	27+67.24	31+80.98	413.7							
PM002	RT	31+80.98			12.0	1					
PM002	LT	31+91.38	31+97.36								
PM003	LT	32+48.44			12.0	1		1			
PM003	LT	32+48.44	43+60.00	1111.6							
PM004		43+60.00	55+00.00	1140.0							
PM005		55+00.00	66+40.00	1140.0							
PM006		66+40.00	88+44.72	204.7							
PM006	RT	68+44.72			12.0						
PM006		9+58.63			12.0						
PM006		10+45.58			12.0						REMOVE EX STOPBAR ON SB DIELMAN RD
PM006	LT	69+26.11			12.0						REMOVE EX STOPBAR ON NB DIELMAN RD
PM006	LT	69+26.11	78+00.00	873.9							
PM007	RT	78+00.00	78+79.27	79.3							
PM007	RT	78+79.27			12.0						
PM007	LT	79+43.52			12.0						
PM007	LT	79+43.52	89+40.00	996.5							
PM008		89+40.00	95+65.66	625.7							
PM008		95+65.66			12.0						
SUB-TOTALS			8024.0	212.4	161.1	4.0	46.8	2.0	2.0	2.0	
MULTIPLIER			2	1	1	1	1	1	1	1	
TOTALS			16048.0	212.4	161.1	4.0	46.8	2.0	2.0	2.0	

ALL PAVEMENT MARKINGS SHALL BE HIGH BUILD ACRYLIC WATERBORNE PAVEMENT MARKING PAINT

CURB RAMPS						
SHEET NO.	STATION	LT/RT	RAMP TYPE	LENGTH (MIN) (FT)	AREA (SQYD)	REMARKS
PP001	10+93.01	LT	2	11.5	5.8	
PP001	11+67.11	LT	2	4.8	3.0	
PP001	14+17.76	LT	1	10.0	7.0	
PP001	14+81.79	LT	1	5.0	4.2	
PP002	18+52.92	LT	1	6.5	4.8	
PP002	19+02.08	LT	1	5.0	4.0	
PP002	19+13.33	LT	1	6.5	4.9	
PP002	19+61.74	LT	1	5.0	4.0	
PP004	27+66.16	RT	2	7.5	5.7	
PP004	28+14.70	RT	1	4.5	3.3	
PP004	31+84.10	RT	1	6.5	5.0	
PP005	32+46.04	RT	1	5.0	3.8	
PP005	33+56.92	RT	1	6.5	4.9	
PP005	64+04.04	RT	1	5.0	3.8	
PP006	39+48.30	LT	1	6.5	4.9	
PP006	40+11.91	LT	1	6.5	4.7	
PP006	41+14.50	LT	1	6.5	4.7	
PP006	41+58.29	LT	1	7.0	3.2	
PP007	45+01.31	LT	1	5.0	4.1	
PP007	45+49.84	LT	1	5.0	4.3	
PP007	48+34.66	RT	1	5.5	4.0	
PP007	48+74.38	RT	1	6.0	3.8	
PP008	50+88.96	LT	1	6.5	5.1	
PP008	51+54.10	LT	1	5.5	4.6	
PP008	52+33.36	RT	1	6.0	5.5	
PP008	53+10.26	RT	1	5.0	4.2	
PP008	53+35.94	LT	1	6.5	4.8	
PP008	53+94.92	LT	1	5.5	5.4	
PP009	55+15.61	RT	1	6.5	4.8	
PP009	55+63.58	RT	1	5.5	4.3	
PP009	56+66.11	LT	1	5.0	4.4	
PP009	57+37.11	LT	1	6.5	5.1	
PP010	62+37.28	LT	1	9.0	7.6	
PP010	63+39.40	LT	1	5.0	4.9	
PP011	68+49.28	LT	1	10.5	7.4	
PP011	68+51.67	RT	1	10.5	7.1	
PP011	69+14.28	LT	3	15.4	11.0	
PP011	69+27.87	RT	1	5.0	4.5	
PP012	73+46.08	RT	1	7.0	5.8	
PP012	73+47.78	LT	SPECIAL A	7.0	5.0	
PP012	74+23.34	LT	SPECIAL B	5.0	4.1	
PP012	74+34.30	RT	1	5.0	4.9	
PP012	76+40.88	RT	1	6.5	4.9	
PP012	76+55.31	LT	1	5.0	4.0	
PP012	77+90.07	LT	SPECIAL A	6.5	4.4	
PP013	78+45.71	LT	SPECIAL B	5.0	3.8	
PP013	78+82.56	RT	1	6.5	4.8	
PP013	79+38.09	RT	1	5.0	4.1	
PP013	79+90.48	LT	SPECIAL A	7.5	4.4	
PP013	80+31.47	LT	1	5.0	3.8	
PP013	83+30.59	RT	1	9.0	6.3	
PP014	83+81.30	RT	1	5.0	3.7	
PP014	85+41.74	LT	1	9.0	4.9	
PP014	85+96.89	LT	1	5.0	3.9	
PP016	95+73.76	RT	3	14.8	12.8	
PP016	95+90.81	LT	3	15.7	12.5	
TOTAL					286.5	

ENTRANCES & DRIVEWAYS						
SHEET NO.	LT/RT	STA	CONCRETE AREA (SQYD)	ASPHALT AREA (SQYD)	BRICK AREA (SQYD)	REMARKS
PP001	LT	11+88.80	24.0			
PP001	LT	12+40.10	46.3			
PP001	LT	12+93.40	41.4			
PP001	LT	13+89.40			18.5	
PP002	LT	16+25.00			27.2	