CITY OF SAINT LOUIS

DEPARTMENT OF THE PRESIDENT, BOARD OF PUBLIC SERVICE

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ADDENDUM NO. 3

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PLANS AND SPECIFICATIONS

FOR

FOREST PARK PARKWAY OVER METROLINK BRIDGE REPLACEMENT

ST. LOUIS, MISSOURI

DATE: **8/9/2016** LETTING NUMBER: **8615**

The following changes and additions shall be made in the plans and to the estimate. The cost thereof shall be included in the proposals submitted by the bidders.

Please acknowledge receipt of this addendum on the bid proposal.

ADDENDUM TO DRAWINGS

Revise Sheet Q-1 to update list of quantities based on additions, deletions, and revisions listed below in section "BID ITEMS".

Revise Sheet S-1 to show the installation of additional lighting pullboxes at Station 14+00 left and Station 17+76 left.

ADDENDUM TO SPECIFICATIONS

Revise the "Sample Itemized Bid Form" to reflect the additions, deletions, and revisions of bid items listed in the following section.

Delete the following text from Section X.3.d) Weekend Shut Down (Bus Bridge) on pages JSP-28/29 of the project specifications: "If it is necessary for Metro forces to adjust or remove catenary system, eight (8) hours prior to and eight (8) hours following contractor's work must be allowed for within the 50hr work window." Add the following text: "The overhead catenary system will remain in place throughout the weekend closure. It is the contractor's responsibility to protect the system from any damage during the demolition of the bridge."

BID ITEMS

DELETE - Bid Item 6206201 "Type A Epoxy Pavement Marking, 4 in. White"

DELETE - Bid Item 6206202 "Type A Epoxy Pavement Marking, 4 in. Yellow"

DELETE - Bid Item 6206203 "Type A Epoxy Pavement Marking, 12 in. Yellow"

ADD - Bid Item 6206000C "4 In. White Waterborne Pavement Marking Paint, Type P Beads" - 943 lf

ADD - Bid Item 6206001C "4 In. Yellow Waterborne Pavement Marking Paint, Type P Beads" - 888 lf

ADD - Bid Item 6209903 "12 In. Yellow Waterborne Pavement Marking Paint, Type P Beads" - 223 lf

ADD - Bid Item 6092011 "Integral Curb, 6", Type A" - 405 lf

REVISE - Bid Item 9016120 "Pullbox, Concrete, Standard" - Increase bid quantity from 3 to 5.

QUESTIONS and ANSWERS

Q: Is there an additional cost if Metro removes the catenary
system during the 50 hour weekend closure?
A: Due to the complexity of the wiring configuration at the
project location, Metro cannot remove the catenary system during
50 hours weekend closure. The contractor will be responsible for
protecting the in-place catenary system during demolition. See
"Addendum to Specifications" above.

Q: Do the catenary lines need to be de-energized while driving pile or can this be accomplished under a flagging operation? A: Due to the proximity of the abutment to the centerline of Metrolink tracks, it is anticipated that pile driving equipment will foul the adjacent track and therefore require that one track be taken out of service. Per Section 1.20 on page JSP-40 of the specifications, the contractor is required to submit a complete procedure plan to Metro for approval. The contractor may, at their own risk, submit a plan showing the pile driving operations being done adjacent to an in-service line with flaggers. Metro will review and, at its sole discretion, will determine if the plan is acceptable or if the pile driving will need to be done with a track closure. No additional compensation will be granted to the contractor if Metro rejects the plan and requires the track be taken out of service. If Metro approves a procedure plan that includes driving pile adjacent to live tracks, Metro reserves the right to decide that the adjacent track be taken out of service if at any time Metro determines that the track is being fouled. In such an event, no additional compensation will be granted to the contractor for the costs associated with closing the track.

Q: There is a section in the specs after the lead and asbestos survey that contains requirements for a lead abatement contractor. We are not abating any lead, we are removing the beams that have lead paint. Are we required to have a Lead Abatement Supervisor on site at all times during abatement? A: The need for a lead abatement supervisor will only be required during activities that would potentially create moderate levels of lead dust (cutting, grinding, welding, etc) during the removal of the beams. General handling of the beams will not require a lead abatement supervisor. However the City's onsite engineer may at any time require one if, in his/her opinion, the handling of the beams is being done in a manner that creates a risk.

Q: MoDOT requirements typically state AASHTO ASD Specifications for MSE walls, however the plans indicate 2012 AASHTO LRFD Specifications. Please confirm the walls are to be designed in LRFD, and the allowable bearing pressure in the geotechnical report is the maximum factored bearing resistance using a reduction factor of 0.65 typical for MSE walls.

A: The walls should be designed in LRFD. The numbers given in the geotechnical report for the allowable bearing pressures include the 0.65 reduction factor.

Q: The Assessment of Trees included in the specification states a cost of \$7,313.00 due to the City's Forest Division for the replacement of trees. Will a line item be added to the contract to account for this cost?

A: The contractor is <u>not</u> responsible for any costs mentioned in the Forestry Division's Assessment of Trees.

Q: Will the Kingshighway intersection project contractor remove the detour or will they be finished within the bridge contract's timeframe?

A: The intersection project is scheduled to be complete faster than the bridge project. It will be the bridge contractor's responsible to set up, maintain, and remove the detour.

Q: What, if any, expansion joint are required at the approach slabs?

A: MoDOT Standard Plan Sheets 504.00J 1-3 require a $\frac{34}{}$ expansion joint between the bridge approach slabs and the concrete approach pavements. Also required is a 2" expansion joint between the concrete approach pavement and the concrete pavement. Payment for these items is to be considered to be covered by the Unit Bid Price per square yard of concrete approach pavement.

Q: Does the bid quantity for the line item "Conduit, 2 in., Rigid

HDPE" include the conduit installed on the bridge? A: No. The two 2" conduits shown to be installed in the safety barrier curb located on the north side of the bridge will be paid for under the lump sum line item "Conduit System on Structure".

END OF ADDENDUM NO. 3

Pre-Bid Meeting Minutes

Forest Park Parkway over Metrolink Bridge Replacement August 1, 2016

- This project will remove and replace the existing bridge with a new, single span prestressed concrete box girder bridge. Work will include approaches, MSE walls, lighting, fencing, and a small amount of new roadway west of the bridge.
- Bids are due in this room on Tuesday, August 16, at 1:45 pm. At that time they will be opened and read. Bette Behan will be sending out bid packets that will include the bid proposal form and an official envelope. If you return your bid documents in anything other than the official envelope, it will be rejected. If you make any alterations to the bid proposal form, it will also be rejected.
- This project has a calendar completion date of June 12, 2017.
- Bidders must submit a bid deposit equal to 5% of the total bid.
- This contract requires that all onsite workers be paid prevailing wages. Workers must have completed the OSHA 10 hours safety training course.
- The DBE goal of this contract is set at 12% of the total contract amount. There is an On the Job goal of one trainee for 1,000 hours.
- This contract has a Buy America policy that will be strictly enforced on all iron, steel, and steel coating products.

Project Specific

- It is anticipated that there will be one weekend with a complete shutdown of Metrolink to allow for the demolition of the bridge. This will need to be scheduled with Metrolink I believe two months in advance. Metro is aware of our timeline and has us penciled in for November, give or take a month. Construction will also require at times flaggers and single track shutdowns. Everyone working within Metrolink ROW is required to be Tier 1 certified. There is a single line item titled "Metrolink Coordination and Fees". This line item is the only compensation you will get for any and all costs associated with Metrolink. In the specs, you'll find about 80 pages of documents dedicated to working around Metrolink tracks, including the costs of permits and flaggers. Study it.
- 2. Also note that Metrolink has a track access point from Forest Park, between the bridge and Union. When we close the parkway at Union, it must be done in a way that allows Metrolink continued access. A track access plan will need to be approved by Metrolink.
- 3. BJC is reconstructing the intersection of Kingshighway and Forest Park Parkway. The east end of our project limits ties in to the west end of theirs. There will be the need for the two contractors to coordinate. A couple things to note:
- This bridge contract is responsible for installing and maintaining the detour route. The intersection project will only be responsible for traffic control up on Kingshighway.
- The intersection contractor is required to provide us with access from the east as needed.
- About 30' east of our project limits, BJC will be installing a tunnel underneath the parkway. You will need to work with the BJC contractor to coordinate the tie in of the two streets.

QUESTIONS & ANSWERS

Q: What type of foundation improvements will be allowed for the MSE walls?

A: Brad Dunagan (Cochran Engineering) answered that any industry standard improvements will be allowed. It is at the discretion of

the general contractor and the MSE wall designer, who should work together to determine what method of improvements would work best for them. Proposed improvements should be included in the MSE wall submittal for review/approval.

Q: When will the Kingshighway/Forest Park Parkway intersection project begin construction?A: BJC has a contractor under contract and is ready to begin as soon as the detour is set up.

Q: Will Metrolink allow for a second weekend shutdown to allow for the placement of girders?A: No, only one weekend shutdown (to allow for the demolition of the bridge) will be allowed under this contract.

Q: Will the timing of the traffic signals along the detour route be changed?
A: This contract does not include any provisions to retime traffic signals. It is possible that the City's Traffic Division may choose to retime the signals after the detour is in place.

Q: The tree assessment in the project's specifications state a
removal fee of \$7,313.00 for tree replacement due to construction
of the bridge. Who is responsible for this cost?
A: See addendum

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Name 8-1-16	Company	Email/Phone Number
Charles Tallman	Millstone Weber Chou	1: Jallman @ Millster ere ber com
Charice Hayes	Milldege Weber Chastre	636-688-8797 Hayes@MillstoneWeber.com
Gordon Kaney		636-296-2012+201 Araney Otozeny Waga era lorn
Ryan Lazier	Gershenson	636-549-0198 rlazier@genslensen.com
Brad Dunayan	Cochron Eng	314-842-4033 <u>bdunayun @coc</u> hroneng.&
Josh Kambitch	CAY BPS	573-450-9726 <u>Kembitch jØstlavis ma</u> , gav
Bette Behan	6PS	589-6214
ANDY HAMEPSEN	Thomas Ind. Coatings	314-220-4767
Matt Austin	Inventure Civil	Costor 1346-9245 Austin Malnuotane Civil, com
Steve Teipe	KCI Construction	314-200-3548 sterpe @. Kci construction. Con
Justin CUNE	KCI Construction	314-200-6472. J <u>CLIAE. @Kci[°]Construction</u> com
Raman Tumblin-Ruck	L BSC Healthcore	314 575-3014 Rx+1215 2 5; c. oneg

Bid No.	Description	Unit	Quantity	Unit Cost	Extended Cost
2013000	Clearing and Grubbing	AC	0.4		\rightarrow — — — — — — — — — — — — — — — — — — —
2022010	Removal of Improvements	LS	1		\land
2035000	Unclassified Excavation	СҮ	1,736		$\langle \rangle$
2035500	Embankment in Place	СҮ	2,903	\land	
2036000	Compacting Embankment	СҮ	2,903		
3040143	Type 5 Aggregate for Base (4" Thick)	sx	1377		>
5021110	Concrete Pavement (10 in. Non-Reinforced)	sy	1,37		
6061010	Type A Guardrail	LK	178	· · ·	
6062300A	Transition Section, 6.5 Ft. Posts	EA	2	\	
6062400	Bridge Anchor Section	EA		>	
6071012A	Chain-Link Fence (60 IN.)	LF	370		
6081000	Concrete Median	SY	6.7		
6092011	Integral Curb, 6", Type A	LF	405		
6178003A	Traffic Barrier Delineator, Yellow/Yellow	EA	10		
6181000	Mobilization	LS	1		
6274000	Contractor Furnished Surveying and Staking	LS	1		
7034216	Concrete Barrier Curb, Type B (Modified)	LF	130		
7034410	Median Barrier Curb	LF	252		
7034412	Median Barrier Curb Transition	LF	20		
8061019	SiltFence	LF	1,236		
8051000A	Seeding - Cool Season Mixtures	AC	0.4		
				Sub-Total Roadway Items	

Continued on next page

ITEMIZED BID FORM CONTINUED

Bid No.	Description	Unit	Quantity	Unit Cost	Extended Cost
					\land —
2160500	Removal of Bridges	EA	1		
5031010	Bridge Approach Slab	SY	270	$\langle \langle \rangle$	
5041000	Concrete Approach Pavement	SY	708		$\langle \rangle$
6071068	Ornamental Fence on Curb, 72"	LF	231	\land	
6071069	Ornamental Fence, 72"	LF	233		\sim
6161001	Metrolink Coordination and Fees	LS			
7021010	Structural Steel Piles (10 in.)	LA	1,792	$//$ \checkmark	
7027000	Pile Point Reinforcement	EA	28	\langle	
7034003	Class B1 Concrete (Substructure)	(CA	48.6	\sum	
7034215	Safety Barrier Curb	AF.	214	\checkmark	
7034222	Slab on Concrete Beam	sy	661		
7034410	Median Barrier Curb	LF	107		
7056055	27 In., Prestressed Concrete Adj. Box Beam	LF	1,486		
7071000	Conduit System on Structure	LS	1		
7101000	Reinforcing Stee (Grade 60) (Epox) Coated)	LB	11,906		
7110400	Sacrificial Grafiti Protection System	SF	8,792		
7161000	Plain Neoprene Bearing Pads	EA	57		
7201000	Mechanically Stabilized Earth Wall System	SF	7,232		
				Sub-Total Bridge Items	

Continued on next page

ITEMIZED BID FORM CONTINUED

Bid No.	Description	Unit	Quantity	Unit Cost	Extended Cost
6161005	Construction Signs	SF	728		
6161031	Type III Moveable Barricade with Light	EA	21		
6161098	Changeable Message Signs (Contractor Furnished / Contractor Retained)	EA	3		
6169903	Construction Fencing (72" Chain Link)	LF	718		
6206000C	4 In. White Waterborne Pavement Marking Paint, Type P Beads	LF	943	\land	
6206001C	4 In. Yellow Waterborne Pavement Marking Paint, Type P Beads	LF	888	1	Y
6209903	12 in. Yellow Waterborne Pavement Marking Paint, Type P Beads	LF	223		
	A A A A A A A A A A A A A A A A A A A	sub-	Total Sigi	ning/Striping/Signals Items	
			\backslash	\checkmark	
8031000A	Turf Type Tall Fescue Sodding	SY	2,009		
8080603	Landscape/Groundcover	EA	50		
		1		Sub-Total Lighting Items	
9011029	Lighting Pole, 30 Ft, Type B	EA	2		
9011108	Bracket Arm, 8 Ft	EA	4		
9011310	Luminaire, 270 Watt High Pressure Sorthum	EA	4		
9013002	Conduit, 2 IN Rigid HDPE	LF	905		
9015010	Trenching Type 1	LF	400		
9016120	Pull Box, Concrete, Standad	EA	5		
9017008	Cable, 8 AWG 1 Conductor	LF	1,842		
9018230	Pole Foundation (30 Ft. Mounting Height)	ΕA	2		
				Sub-Total Lighting Items	
				Total Base Bid	

GENERAL NOTES & QUANTITIES

LEGEND

EXISTING	
RIGHT-OF-WAY	—
CENTERLINE OF ROAD	
EXISTING MAJOR CONTOUR	970
EXISTING MINOR CONTOUR	
EXISTING AERIAL ELECTRIC	AE
EXISTING STORM SEWER	SS
EXISTING UNDERGROUND ELECTRIC	UGE
EXISTING FENCE	——×——
EXISTING TREE	
EXISTING TREELINE	
EXISTING UTILITY (TERMINUS UNKNOWN)	·

EXISTING		NEW
	CONCRETE BRIDGE APPROACH SLAB	
6 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	CONCRETE PAVEMENT	
	GRAVEL SURFACE	
	CONCRETE SIDEWALK	
· · · · · · · ·	CONCRETE APPROACH	
	6" CONCRETE CURB	
	BRIDGE STRUCTURE	
	PRE-STRESSED CONCRETE	
	YELLOW PAVEMENT MARKING	
	WHITE PAVEMENT MARKING	
	MSE WALL	
	SAFETY BARRIER CURB	
	SILT FENCE	CILT
	CHAIN LINK FENCE	
	7' HIGH DECORATIVE METAL FENCE	0
	GUARD RAIL	
	TEMPORARY CONSTRUCTION FENCE	0
۵	LIGHT	×
	PROPOSED MAJOR CONTOUR	
	PROPOSED MINOR CONTOUR	
	CONSTRUCTION LIMITS	
	WHIN I	NUMBER OF A NORTHERE
		BRADHORD DUINAGAN NAMBER E-22970 DFESSION

LIST OF QUANTITIES

Bid From From Quantity Description IInit STA No. STA ROADWAY ITEMS 2013000 Clearing and Grubbing AC 14+00 17+76 04 2022010 Removal of Improvements LS 14+00 17+76 2035000 Unclassified Excavation CY 14+00 17+76 1,736 2035500 Embankment in Place CY 14+00 17+76 2,903 2036000 Compacting Embankment 17+76 CY 14+00 2,903 3040143 Type 5 Aggregate for Base (4" Thick) 17+76 SY 14 + 001,377 5021110 Concrete Pavement (10 in. Non-Reinforced) SY 14+00 17+76 1,377 6061010 Type A Guardrail LF 14+0017+76 175 Transition Section, 6.5 Ft. Posts 6062300A EA 15+58 16+30 2 6062400 Bridge Anchor Section EA 15+64 16+36 2 6071012A Chain-Link Fence (60 IN.) LF 14+00 15+95 370 6081000 Concrete Median SY 17+66 17 + 7667 6092011 Integral Curb, 6", Type A LE 17 + 6617 + 76405.0 6178003A Traffic Barrier Delineator, Yellow/Yellow FA 14+0017+66 10 6181000 Mobilization LS 14+00 17+76 6274000 Contractor Furnished Surveying and Staking 14+00 17+76 LS Concrete Barrier Curb, Type B (Modified) 7034216 LF 16+95 17+76 130 Median Barrier Curb 7034410 14 + 0017+46 252 1 F 17+66 7034412 Median Barrier Curb Transition 17+46 20 1 F 8061019 Silt Fence LE. 14+0017 + 761.236 8051000A Seeding - Cool Season Mixtures 17+76 AC 14+00 0.4 BRIDGE ITEMS 2160500 Removal of Bridges EA 16+07.50 17+14.48 5031010 Bridge Approach Slab SY 16+07.50 17+14.48 270 5041000 Concrete Approach Pavement SY 15+58.58 17+54.44 708 6071068 Ornamental Fence on Curb, 72" LF 16+07.50 17+14.48 231 6071069 Ornamental Fence, 72" LF | 16+07.50 | 17+14.48 233 6161001 Metrolink Coordination and Fees LS 16+07.50 17+14.48 7021010 Structural Steel Piles (10 in.) LF 16+07.50 17+14.48 1,792 7027000 EA 16+07.50 17+14.48 28 Pile Point Reinforcement 7034003 Class B1 Concrete (Substructure) CY 16+07.50 17+14.48 48.6 7034215 Safety Barrier Curb LF 16+07.50 17+14.48 214 7034222 Slab on Concrete Beam SY 16+07.50 17+14.48 661 7034410 Median Barrier Curb LF 16+07.50 17+14.48 107 7056055 27 In., Prestressed Concrete Adj. Box Beam LF 16+07.50 17+14.48 1,486 7071000 Conduit System on Structure 16+07.50 17+14.48 LS Reinforcing Steel (Grade 60) (Epoxy Coated) 7101000 16+07.50 17+14.48 11,906 LB Sacrificial Graffiti Protection System 7110400 SF 16+07.50 17+14.48 8,792 7161000 Plain Neoprene Bearing Pads EA 16+07.50 17+14.48 57 7201000 Mechanically Stabilized Earth Wall System SF 16+07.50 17+14.48 7,232 SIGNING/STRIPING/SIGNALS ITEMS 6161005 Construction Signs SF 14+00 17+76 728 6161031 Type III Moveable Barricade with Light EA 14+00 17+76 21 Changeable Message Signs (Contractor Furnished / 6161098 EA 17+76 14+00 Contractor Retained) 6169903 Construction Fencing (72" Chain Link) LF 14+00 17+76 718 6206000C 4" White Waterborne Pvmt Marking Paint, Type P Beads LF 14+00 17+76 943 6206001C 4" Yellow Waterborne Pvmt Marking Paint, Type P Beads LF 14+00 17+76 888 12" Yellow Waterborne Pvmt Marking Paint, Type P Beads | LF 17+76 6209903 14+00 223 LANDSCAPING/STREETSCAPING ITEMS 8031000A Turf Type Tall Fescue Sodding SY 14+00 17+76 2,000 17+76 8080603 Landscape/Groundcover 14+00 50 EA LIGHTING ITEMS 9011029 Lighting Pole, 30 Ft., Type B EA 15+50 17+45 9011108 Bracket Arm, 8 Ft. EA 15+50 17+45 17+45 9011310 Luminaire, 250 Watt High Pressure Sodium EA 15+50 9013002 LF 14 + 0017 + 76905 Conduit, 2 IN. Rigid HDPE 9015010 Trenching Type 1 LF 14+00 17 + 76400 9016120 Pull Box, Concrete, Standard EA 14+00 17+76 9017008 Cable, 8 AWG 1 Conductor LF 14+00 17+76 1,842 Pole Foundation (30 Ft. Mounting Height) 9018230 EA 15+50 17+45

NOTES

PF	ROPOSED ROAD
shi Noi Ma) Tre Sid Na)	ADWAY WIDTH (BOC TO BOC) = 65.08' MIN MBER OF LANES = 4 TO 6 IE WIDTH = 11'-0" DULDER WIDTH = 8'-0" MIN. RMAL CROWN = 2.00% KIMUM SUPERELEVATION = 4% IE LAWN WIDTH = NONE EWALK WIDTH = NONE KIMUM GRADE = 6% KIMUM CURVATURE = EXISTING 649' RADIUS
<u>S</u> r	<u>TE PLAN NOTES</u>
	CONTRACTOR SHALL RELOCATE ALL EXISTING THE IMPROVEMENTS. NEW LOCATIONS SHAI REMOVAL OF IMPROVEMENTS SECTION IN TH
	CONTRACTOR SHALL ADJUST TO GRADE ALL GRADE OF THE NEW PAVEMENT. SEE THE
ST	ANDARD CONSTRUCTION
	ALL STORM AND SANITARY SEWER STRUCTU OR TO BE PRIVATE UNDER MSD INSPECTION SEWER DISTRICT, STANDARD CONSTRUCTION FACILITIES, 2009. THAT WILL INCLUDE STAN ALL SUBSEQUENT CHANGES MADE THERETO
ł	SOME RECENT CHANGES CONCERN PIPE FIE FOLLOWING:
5	PART 4 – PIPE SEWER CONSTRUCTION
}	SECTION B, PIPE FIELD TESTS, PARAGRAPH SENTENCE AND THE FOLLOWING REPLACEME
}	ALL SANITARY AND COMBINED SEWERS SHA GALLONS/INCH OF PIPE DIAMETER/MILE OF DEPARTMENT OF NATURAL RESOURCES SPEC
	SECTION B, PIPE FIELD TESTS, PARAGRAPH INFILTRATION/EXFILTRATION TESTING - DELE LIMITS, AND THE FOLLOWING REPLACEMENT
	THE MEASUREMENT OF LEAKAGE SHALL NO OF LINE/DAY, AS REQUIRED BY THE MISSO SPECIFICATIONS.
2	SECTION B, PIPE FIELD TESTS, PARAGRAPH TESTING - AFTER THE FIRST SENTENCE, TH
	THE VACUUM TEST MUST BE PERFORMED F THE CONTRACTOR PROVIDES DOCUMENTATIO STATING THAT THE MANHOLE MAY BE VACU THE CONTRACTOR MUST SUBMIT THIS DOCU MANHOLE.
	SECTION B, PIPE FIELD TESTS, PARAGRAPH EXFILTRATION TESTING - DELETE THE SECC THE FOLLOWING ADDITION APPLIES:
	FOR EXFILTRATION TESTING, THE ALLOWABLE DIAMETER/MILE OF LINE/DAY WHEN THE AV (3') OR LESS.
k .	MAINTENANCE OF THE SEWERS DESIGNATED METROPOLITAN ST. LOUIS SEWER DISTRICT
)	ANY ARANDONED SWERS SHALL BE REMOVE

ANY ABANDONED SWERS SHALL BE REMOVED OR COMPLETELY GROUT FILLED.

MSD PERMITS ARE REQUIRED PRIOR TO THE ABANDONMENT OR REMOVAL OF EXISTING SEWERS. TO RECEIVE MSD PERMITS THE PROJECT MUST HAVE MSD PLAN APPROVAL. NOTIFY MSD 48 HOURS PRIOR TO SEWER ABANDONMENT AND/OR REMOVAL.

TO 82.67' MAX.

NG SIGNS AS NECESSARY FOR THE CONSTRUCTION OF ALL BE AS DIRECTED BY THE ENGINEER. SEE THE SPECIFICATIONS

UTILITIES NECESSARY TO BRING THE UTILITY TO THE UTILITY ADJUSTMENT SECTION OF THE SPECIFICATIONS.

JRES AND APPURTENANCES TO BE DEDICATED TO MSD. N, SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SPECIFICATIONS FOR SEWERS AND DRAINAGE DARD DETAILS SHOWN THEREIN, AND SHALL INCLUDE

TELD TESTING AND PERFORMANCE, AND INCLUDE THE

2, REACH INTEGRITY TESTING - DELETE THE FIRST IENT APPLIES:

ALL SUSTAIN A MAXIMUM LEAKAGE MILIT OF 100 LINE/DAY, AS REQUIRED BY THE MISSOURI ECIFICATIONS.

2, REACH INTEGRITY TESTING, SUBPARAGRAPH C, ETE THE SIXTH SENTENCE, CONCERNING LEAKAGE APPLIES:

OT EXCEED 100 GALLONS/INCH OF PIPE DIAMETER/MILE OURI DEPARTMENT OF NATURAL RESOURCES

4, MANHOLE TESTING, SUBPARAGRAPH A, VACUUM HE FOLLOWING ADDITION APPLIES:

PRIOR TO BACKFILLING AROUND THE MANHOLE UNLESS ON FROM THE PRECAST MANHOLE MANUFACTURER JUM TESTED AFTER BACKFILLING HAS TAKEN PLACE UMENTATION PRIOR TO BACKFILLING AROUND ANY

4, MANHOLE TESTING, SUBPARAGRAPH B, OND SENTENCE, CONCERNING LEAKAGE LIMITS, AND

LE LEAKAGE LIMIT IS 100 GALLONS/INCH OF PIPE VERAGE HEAD ON THE TEST SECTION IS THREE FEET

) "PUBLIC" SHALL BE THE RESPONSIBILITY OF THE UPON DEDICATION OF THE SEWERS TO THE DISTRICT.

MSD P-30641-01 BASE MAP 19G3



