

Terre Haute Sanitary District - Large Diameter Sewer Rehabilitation 2005 Bid Date: November 22, 2005

The Proposed Control of Management of Control of Cont	Bid Date: November 22, 2005																		
2 Method (mile 1967) Met	Bidder:						Pres		inc.				Coastal Gunit	е		Superior Gunite)	Abhe & S	voboda, Inc.
3 New Wilson 17 19 19 19 19 19 19 19	1	- V					-		2			-				X			X
A -	2	2 Bid Bond										X		X			X		
Standard Section Standard Communication	3	3 Indiana Form 96 W / Non-Collusion Affidavit									X			X			X		
But Control	4	4 Proof of Insurance													X				
A processor of Advanced and Company of Com	5	Surety Intent to Provide Required Bonds												X	3 8				
The	6	Acknowledgement of Addendum #1														X		X	
Common C	7	Acknowledgement of Addendum #2										X			X	ii	X		
Description	8											X		X		X			
Comment of Process Comment																Superior Gunite		Abhe & S	voboda, Inc.
To Some with content of High Private Related 1 1 1/22 200-00 200-	Item	Description	Unit	Quantity	Unit Cost	Amount	Unit Cost	Amount	Bid Doc	Unit Cost	Amount	Unit Cost	Amount	Bid Doc	Unit Cost	Amount	Bid Doc	Unit Cost	Amount
Part	I. Chestnu																		
See with company of PF Distant Method 21 U. 1. 18.00.00 18.97,70.00 19.00.00 1	1															\$214,524.00		\$327.00	\$347,274.00
A Source of Congress (Annual Congress)	2															\$309,546.00		\$299.00	\$354,614.00
Separation of the Content of the C	3																		\$346,918.00
Fig. Sear with carried of Fig. States Method Fig. Fi	4																		\$3,920.00
To Morace Regal Type TVP									·										\$78,336.00
A	6																		\$6,280.00
Continuous of Finds	7 .	1 7 21																	\$12,600.00
Description																			\$8,000.00
State Stat														-					\$20,000.00
Series of Control (Control Middle)	10		LS		φοσ,σου.υυ		\$12,500.00			φου,υυυ.υ0		\$10,000.00		-	\$205,000.00			\$100,000.00	\$100,000.00
To Green with Common of 115, Stocking Method of 11 F 1,000 150	0 11 1			 		φ1,229,020.00		φ901,203.00			φ1,123,830.00		\$1,047,890.00			\$1,155,389.00			\$1,277,942.00
2 Sover will diseased of \$2°; Bottom Method of LP 450 \$350.00 \$950,750.00 \$350.00	II. Hulman		1E	1 002	\$300.00	\$7/1 780 OO	\$200.00	\$568 608 00		\$345.00	\$656 100 00	\$204.00	¢570 000 00	-	400000	¢544 000 50		0000	6767 070
Some will demander of \$2 Statemen Method #1 LP 186 \$300.00 \$100.000 \$300.000	1																		\$737,976.00
Some with distination of PC, State-tool Method #1				-										\$EE 707.00					\$744,579.00
Sover will dament of Pf, Statistics Method #1																			\$59,520.00
Concerned Mandred of Pic States Method of 1																			\$720,213.00
Soverer with Clamarion of eth", Protectes Methol of B LF 366 \$200.00 \$140.000 \$440.0																			\$242,046.00
8 Severe with General or 64", Prevente Method RF LF 30 500.00 \$14,00.00 \$14,00.00 \$16,00.00 \$15,00.0																			\$102,843.00
Second Repair Pays Part EACH 1 \$600.00 \$1,00														\$13 230 00					\$105,248.00
Name Repair Type Mar Repair Type														φ13,230.00					\$15,840.00 \$1,800.00
1																			\$34,000.00
1																			\$2,500.00
15 1 5138,400.00 512,000.00 512,000.00 510,00																			\$20,000.00
Waht Steel			LS	1	\$138,400.00	\$138,400.00	\$12,500.00	\$12,500.00		\$50,000.00	\$50,000.00								\$100,000.00
III Ward Street						\$2,906,350.00		\$2,607,094.00			\$2,466,530.00			\$2,688,744.00	77.77.55.55			V100,000.00	\$2,886,565.00
Sever with diameter of 67; Shotcrete Method #1	III. Walnut	Street																	4=1000100000
Sever with diameter of 92°, Shotcrete Method at LF 333 \$3100 \$100,200 \$22700 \$275,000 \$275,000 \$310,000 \$3500,000 \$3	1		LF	6,703	\$330.00	\$2,211,990.00	\$224.00	\$1,501,472.00		\$275.00	\$1,843,325.00	\$304.00	\$2,037,712.00	\$2,038,673.00	\$271.00	\$1,816,513.00		\$327.00	\$2,191,881.00
3	2	Sewer with diameter of 92", Shotcrete Method #1	LF	333	\$310.00	\$103,230.00	\$227.00	\$75,591.00	\$75,595.00	\$305.00	\$101,565.00	\$278.00	\$92,574.00		\$260.00	\$86,580.00			\$104,229.00
Second Control Report Figs Mar	3	Manhole Repair, Type "M1"	EACH	5	\$600.00	\$3,000.00	\$1,800.00	\$9,000.00		\$1,500.00	\$7,500.00	\$1,000.00	\$5,000.00		\$825.00	\$4,125.00		\$1,800.00	\$9,000.00
6 Marhola Repair, Type "Mo"	4	Manhole Repair, Type "M2"		7		\$2,100.00	\$1,800.00					\$800.00	\$5,600.00		\$345.00	\$2,415.00	- F	\$2,000.00	\$14,000.00
7 Marthole Repair, Type 'M6"	5	Manhole Repair, Type "M3"											\$2,000.00		\$1,600.00	\$1,600.00		\$2,000.00	\$2,000.00
Standard	6	Manhole Repair, Type "M5"																\$3,000.00	\$3,000.00
Mobilization/Demobilization LS 1 \$116,870.00 \$116,870.00 \$12,500.00 \$12,500.00 \$50,000.00 \$50,000.00 \$10,000.00 \$250,000.00 \$250,000.00 \$310,000	7			1															\$3,500.00
N. Spruco Street SUBTOTAL \$2,444,940.00 \$1,633,963.00 \$2,017,455.00 \$2,017,455.00 \$2,176,347.00 \$2,207,283.00 \$2,247,	8	Maintenance of Traffic		1													100	\$20,000.00	\$20,000.00
N. Spruce Street N. Spruce S	9		LS	1	\$116,670.00		\$12,500.00			\$50,000.00		\$10,000.00			\$250,000.00		- 6	\$100,000.00	\$100,000.00
1		SUBTOTAL				\$2,454,940.00		\$1,633,963.00			\$2,017,455.00		\$2,175,386.00	\$2,176,347.00		\$2,207,283.00			\$2,447,610.00
2 Sewer with diameter of 72°, Shotcrete Method #3 LF 542 \$245.00 \$132,790.00 \$321.00 \$173,982.00 \$335.00 \$165,310.00 \$366.00 \$198,372.00 \$344.00 \$213,548.00 \$213,000.00 \$377.00 \$204, 400.00 \$1,800.00 \$1,800.00 \$1,800.00 \$1,800.00 \$1,800.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$2,400.00 \$344.00	IV. Spruce											· ·							
Substate Contingency (%) Substate Construction Costs Substate Contingency (%) Substate Conting									\$624,996.00										\$732,240.00
4 Manhole Repair, Type "M2" EACH 3 \$30.00 \$900.00 \$1,800.00 \$5,400.00 \$895.00 \$2,600.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$1,000.00 \$3,000.00 \$2,000.00 \$3,000.0																	\$213,000.00		\$204,334.00
Second Contingency (5%) Subtoal Construction Cost State Contingency (5%) State Contingen	3																		\$1,800.00
6 Maintenance of Traffic LS 1 \$2,500.00 \$15,000.00 \$15,000.00 \$10,000.00 \$10,000.00 \$5,000.00 \$5,000.00 \$15,139.00 \$15, 139.00	4																		\$6,000.00
7 Mobilization/Demobilization LS 1 \$30,850.00 \$30,850.00 \$12,500.00 \$12,500.00 \$50,000.00 \$50,000.00 \$10,000.00 \$85,000.00 \$85,000.00 \$10,000.0																			\$3,000.00
Subtotal Construction Costs \$647,910.00 \$841,138.00 \$841,138.00 \$731,135.00 \$1,000,372.00 \$965,293.00 \$965,293.00 \$1,062,	6																		\$15,139.00
Subtotal Construction Costs \$7,238,820.00 \$362,000.00 \$362,000.00 \$362,000.00 \$56,043,398.00 \$6,036,738.00 \$6,911,886.00 \$6,913,353.00 \$7,356,541.00 \$7,674,	7		LS	1	\$30,850.00		\$12,500.00		0004 470 00	\$50,000.00		\$10,000.00			\$85,000.00		#00= 00=	\$100,000.00	\$100,000.00
Contingency (5%) \$362,000.00 \$6,043,398.00 \$6,036,738.00 \$6,038,950.00 \$6,911,886.00 \$6,913,353.00 \$7,356,541.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$6,043,398.00 \$6,038,950.00 \$6,914,886.00 \$6,914,886.00 \$7,356,541.00 \$7,356,541.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$7,356,541.00 \$7,356,541.00 \$7,356,541.00 \$7,356,541.00 \$7,356,541.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$7,356,541.00 \$7,356,541.00 \$7,356,541.00 \$7,356,541.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$7,356,541.00 \$7,356,541.00 \$7,356,541.00 \$7,356,541.00 \$7,604,200.00 \$7,604,200.00 \$7,604,200.00 \$7,356,541.00 \$7,356,541.00 \$7,356,541.00 \$7,356,541.00 \$7,604,200.00 \$7,604,200.00 \$7,356,541.								\$841,138.00	\$834,478.00		\$731,135.00		\$1,000,372.00			\$965,293.00	\$965,295.00		\$1,062,513.00
TOTAL CONSTRUCTION COST \$7,600,820.00 \$6,043,398.00 \$6,043,398.00 \$6,036,738.00 \$6,938,950.00 \$6,911,886.00 \$6,913,353.00 \$7,356,541.00 \$7,674,																			
MANDATORY Alternate No. 1 MANDATORY Alternate No. 1 MANDATORY Alternate No. 1 MANDATORY Alternate No. 1 Manual Description Unit Quantity Unit Cost Unit Cost Amount Unit Cost		Contingency (5%)		 				\$6.043.300.00	\$6.036.739.00		\$6 338 050 00		\$6 D11 DD6 00	\$6.012.252.00		\$7.356 E44.00			¢7 674 000 00
Item Description Unit Quantity Unit Cost Unit Cost Unit Cost Amount Unit Cost			Hamat- N	1		\$7,600,820.00		Φ0,043,398:00	φυ,υ30,738.00		φυ,υσο,θου.υ0		\$6,911,686.00	φυ,θ13,353.00		φ1,350,541.00		7.77794	\$7,674,630.00
1. Road Repair and Restoration					Unit Coot		Unit Cost	A	unt	Unit Cost	Amount	Unit Coot	Δ	ount	Unit Cost	A	unt.	Unit Ct	
1 Repair any road cuts, damages and any sort of disturbance to the asphalt and its surrounding base SY 1 \$800.00 \$115.00 \$1,000.00 \$1,000.00 \$65.00 \$100.00 \$1			Unit	Quantity	Unit Cost		Unit Cost	Amo	unt	OHIL COST	Amount	Unit Cost	Amo	Julit	Unit Cost	Amot	mt	Unit Cost	Amount
disturbance to the asphalt and its surrounding base SY 1 \$800.00 \$100.00 \$115.00 \$1,000.00 \$1,000.00 \$65.00 \$100.00				Т														Т	
Total Mandatory #1 Bid \$800.00 \$115.00 \$1,000.00 \$100.00 \$100.00	1		ev			1	\$000.00	¢ 000	00	\$11E.00	\$115.00	\$1,000,00	¢4.00	20.00	\$65.00	005	20	\$100.00	#400 00
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M. SALLING		I otal Mandat	ory #1 BId					\$600	.00		φ113.00		\$1,00	70.00					\$100.00

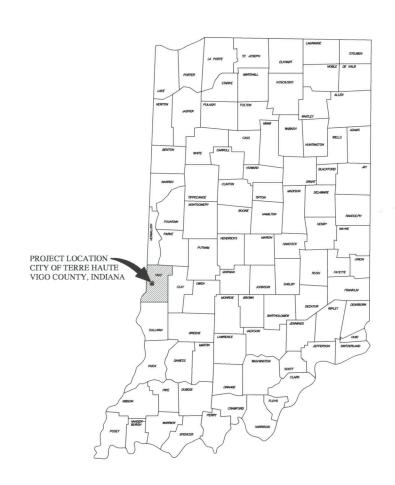
	, /
	11/28/05
Date:	11/23/
Date.	





Terre Haute Sanitary District Large Diameter Sewer Rehabilitation 2005

September 2005



Area Location Map: State of Indiana



CITY OF TERRE HAUTE

Kevin D. Burke

Mayor

BOARD OF COMMISSIONERS

L.E. Frazier Pat Goodwin, P.E.

Steve Witt

President Member Member

Sanitary District Attorney

Lou Britton

Wastewater Utility Certified Operator

PROTOSED
REHABILITATION

OSCIPLE

PROTOSED

OSCIPLE

OSCI

Site Location Map: City of Terre Haute, Indiana



Architect, Civil:

HANNUM, WAGLE & CLINE

e n g i n e e r i n g

Address:
Phone:

3050 POPLAR STREET, SUITE B, TERRE HAUTE, IN 47803

(812) 234-2551 FAX (812) 234-9067

ERIC M. SMITH, P.E.

NO. 19800369

DATE

SANITARY SEWER GENERAL NOTES

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL THOROUGHLY DOCUMENT THE CONDITION OF ALL EXISTING ROADS, SIGNS, DRIVEWAYS, CULVERTS, STRUCTURES AND GROUNDS IN GENERAL BY USE OF NEW 1/2" HIGH DEIREN, EXTENDED STILL FRAME CAPABLE, COLOR VHS FORMAT VIDEO CASSETTES, ECCORDD TAPES SHALL BE COMPATIBLE FOR A PLYBRACK WITH ANY STANDARD PLAYBE-RECORDER. ALL PRE-CONSTRUCTION VIDEO TAPES SHALL BE LOGGED AND PRESENTED TO THE ENGINEER BEFORE THE ACTUAL CONSTRUCTION HAS STARTED.
- ALL COSTS REQUIRED TO CONSTRUCT THE WORK AS GENERALLY INTENDED AND SPECIFIED HEREIN SHALL BE CONSIDERED AND COMPENSATED FOR BY THE CONTRACTOR AND BE INCLUDED IN HIS BID. NO ADDITIONAL PAYMENT WILL BE CONSIDERED FOR CONTRACTOR'S FAILURE TO MAKE SUCH CONSIDERATION.
- 3. UNLESS OTHERWISE INDICATED ALL MATERIALS SHALL BE IN STRICT COMPLIANCE WITH INDOT STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- CONTRACTOR SHALL COMPLY TO ALL REQUIREMENTS OF PERMITS AND AGENCY REQUIREMENTS, HEREIN MADE PART OF THE CONTRACT DOCUMENTS BY REFERENCE. CONTRACTOR SHALL ARRANGE AND PAY FOR ALL INSPECTIONS, PERMITS, APPROVALS, TESTS AND OTHER ASSOCIATED COSTS REQUIRED TO CONSTRUCT WORK IN COMPLIANCE TO APPLICABLE CODES AND AGENCY REQUIREMENTS.
- TO APPLICABLE CODES AND AGENCY REQUIREMENTS.

 5. NOT ALL GAS, POWER, OR TELEPHONE LINES, WHETHER ABOVE OR BELOW GROUND, HAVE BEEN SHOWN ON THE DRAWINGS. ANY UNDERGROUND INFORMATION SHOWN ON THE DRAWINGS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONTRACTORS BENETIC. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR PROTECTING ALL UTILITIES IN HIS WORK AREA WHETHER SHOWN OR NOT, AND MUST REALIZE THAT THE ACTUAL LOCATION OF THE UTILITIES MAY BE DIFFERENT FROM THAT SHOWN ON THE DRAWINGS. ALL DISTINIG UTILITIES ENCOUNTERED IN THE WORK, WHETHER IN PUBLIC RIGHTS OF WAY OR ON PRIVATE PROPERTY, SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN IN SERVICE ANY UTILITIES WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDOUR INTERRUPTION TO SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERFONSION OF THE UTILITY, IF MINOR CONFILITY. IF MINOR OF THE INSTALLATION OF THE WORK IF ACCEPTABLE TO THE ENGINEER. BEFORE WORKING WITH OR ARROUND UTILITIES, THE APPLICABLE UTILITY COMPANY SHALL BE NOTIFIED BY THE CONTRACTOR.
- SHALL BE NOTIFIED BY THE CONTRACTOR.

 3. SAFETY PROVISIONS FOR THE WORK SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE RULES AND REQULATIONS OF THE INDIANA OSHA AND ANY OTHER LOCAL STATE OR PEDERAL AGENCY HAWING JURISDICTION. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB STIE, INCLIDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. CONTRACTOR SHALL AT MINIMUM, PROVIDE TRAFFIC CONTROL AS REQUIRED TO SAFELY PROTECT THE GENERAL PUBLIC, THE CONTRACTOR'S WORK FORCES AND THE WORK. TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREDMENTS OF THE LATEST EDITION OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL SHALL CONFORM TO THE REQUIREDMENTS OF THE LATEST EDITION OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL SHALL PROVISIONS, STANDARD DEPARLES AND HICHWAYS, AND THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, SPECIAL PROVISIONS, STANDARD DETAILS AND GENERAL INSTRUCTIONS TO FIELD EMPLOYEES. THE REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. THE OPTION OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE CONSTRUCTION SITE. CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE AND TRAFFIC CONTROL DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS, REQUIREMENTS, SAFETY MEETING REQUIREMENTS AND AGENCY REQUIREMENTS FOR TRAFFIC CONTROL AND SAFETY PRECAUTIONS, THERE WILL BE NO SEPARATE OR ADDITIONAL PAYMENT FOR THIS WORK.

- 7. ANY WORK DONE WITHOUT LINES AND GRADES BEING GIVEN, OR BEYOND THE LINES AND GRADES SHOWN ON THE DRAWINGS OR OTHERWISE GIVEN, EXTRA WORK DONE WITHOUT AUTHORITY OR ANY OTHER WORK WHICH FAILS TO COMPLY WITH THE CONTRACT DOCUMENTS WILL BE CONSIDERED UNAUTHORIZED AND AT THE EXPENSE OF THE CONTRACTOR, AND WILL NOT BE PAID FOR BY THE THE OWNER.
- 8. CONTRACTOR CAN ONLY WORK WITHIN EASEMENT LIMITS AND RIGHT-OF-WAY SHOWN UNLESS ARRANGEMENTS ARE MADE BY CONTRACTOR WITH OTHER PROPERTY OWNERS IN THE AREA FOR STORAGE, STAGNOR, ETC.
- WHEN PIPE LINES, SUCH AS DRAIN TILES, ETC., ARE DAMAGED AND REPAIRED OR REPLACED, THE REPAIR OR REPLACEMENT MATERIAL SHALL BE SIMILAR OR BETTER THAN THE EXISTING PIPE WHENEVER POSSIBLE.
- 10. THE CONTRACTOR IS REQUIRED TO INSTALL MANHOLES, CLEANOUTS, AND VALVE BOXES AS SHOWN ON THE DRAWNINGS. PERMISSION FROM THE OWNER, ENGINEER, OR OWNER'S REPRESENTATIVE IS REQUIRED FOR ANY ADDITIONS OR MODIFICATIONS TO THE PLANNED LOCATION. THE CONTRACTOR MUST CERTIFY MANHOLE ELEVATIONS, ETC. FOR ANY ADDITIONS OR MODIFICATIONS TO THE WORK AS PLANNED.
- THE MANHOLE CASTINGS MAY BE ADJUSTED IN THE FIELD SHOULD A DISCREPANCY OCCUR BETWEEN PLAN GRADE AND EXISTING GRADE.
- 12. MANHOLE INVERT SHALL BE SHAPED FOR FLOW CHANNEL WITH CONCRETE SMOOTHLY FINISHED BY A U-SHAPED SECTION CONFORMING TO THE INSIDE DUMETER OF THE CONNECTING SEWERS, CHANGES IN THE SIZE AND GRADE SHALL BE MADE WITH SMOOTH TRUE CURVES FOR ALL CONNECTING SEWERS AT EACH MANHOLE.
- 13. THE CONTRACTOR SHALL REMOVE BY PUMPING OR OTHER SUITABLE METHODS ANY WATER WHICH MAY ACCUMULATE IN TRENCHES OR PIPES. NO WATER SHALL BE PERMITTED TO FLOW INTO THE PROPOSED SANITARY SEWER SYSTEM DURING CONSTRUCTION. THE CONTRACTOR SHALL UNILIZE A PUMP TO KEEP THE WATER LEVEL BELOW THE TRENCH BOTTOM. PUMP DISCHARGE SHALL BE DIRECTED TO A STORM OUTLET IN ACCORDANCE WITH THE EROSION CONTROL PLAN. ANY PIPE ENTERING EXISTING SEWERS SHALL BE PLUGGED TO ELIMINATE WATER FLOW UNTIL SUCH TIME AS ALL TESTS ON THE SEWERS HAVE BEEN COMPLETED AND THE LINES HAVE BEEN APPROVED OR WRITTEN AUTHORIZATION IS GIVEN BY THE ENGINEER.
- 14. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS AND CHECK ALL DIMENSIONS NECESSARY FOR THE PROPER INSTALLATION OF THE WORK SHOWN ON THE DRAWINGS AND/OR NOTED WITHIN THE SPECIFICATIONS, AND DURING THE PROSECUTION OF THE WORK. HE SHALL MAKE ALL NECESSARY MEASUREMENTS TO PREVENT MISETTINE IN SAID WORK. LOCATIONS, SIZES AND ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND COMPENSATE ACCORDINGLY IN HIS BID. ADJUST LOCATIONS AS REQUIRED TO MISS EXISTING UTILITIES, SUBJECT TO COORDINATION AND APPROVAL OF AUTHORIZED OWNER REPRESENTATIVE.
- 15. PROVIDE EROSION CONTROL TO SATISFACTION OF THE SOIL CONSERVATION SERVICE.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DUE TO THE WORK IN RESIDENTIAL AREAS, ALL AT NO ADDITIONAL COST TO THE OWNER.
- 17. WHERE PROPERTY MARKERS, SECTION CORNERS, SURVEY MARKS OR BENCH MARKS, SUCH AS STONES, PIPES, OR OTHER SUCH MONUMENTS ARE ENCOUNTERED AND CONFLICT WITH THE WORK, THE ENGINEER SHALL BE NOTIFIED BEFORE THEY ARE DISTURBED, THE MARKERS SHALL BE PROTECTED AFTER THE OWNER, BORNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR REFERENCED THEIR LOCATIONS.

VIGO COUNTY UTILITY CONTACTS



"DON'T

HOLEY MOLEY SAYS,

TELEPHONE:
GTE
711 POPLAR STREET
TERRE HAUTE, IN 47807
CONTACT:
(812) 462–9369

SEWER: CITY ENGINEER
17 HARDING AVENUE
TERRE HAUTE, IN 47807
CONTACT: TROY SWAN
(812) 232—4028

INDIANA GAS P.O. BOX 1647 TERRE HAUTE, IN 47808 CONTACT: BUD SHUTE (812) 231-6436

INDIANA-AMERICAN WATER CO. 51 LOCUST STREET TERRE HAUTE, IN 47807 CONTACT: RICK CARROLL (812) 232-1400

ELECTRIC:
CINERGY PSI
301 HOME AVENUE
TERRE HAUTE, IN 47803
CONTACT: JOHN MORRISON
(812) 231–6785

CABLE TV:
TIME WARNER
1605 WABASH AVENUE
TERRE HAUTE, IN 47807
CONTACT: AL WINN/FRANK CHESHER
(812) 232-5013

EROSION CONTROL GENERAL NOTES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN SHALL BE INSTALLED TO MEET THE DESIGN CRITERIA, STANDARDS, AND SPECIFICATIONS OUTLINED IN THE "INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS" FROM THE IDNR, DIVISION OF CONSERVATION.
- PROVISION OF THIS PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF MEETING ALL REQUIREMENTS SET IN THE "INDIANA HANDBOOK FOR EROSION CONTROL IN DEVELOPING AREAS" AND PER ALL GOVERNING AGENCIES.
- 3, REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 4. RETURN SILTATION CONTROL AREAS TO THE ORIGINAL GROUND CONDITIONS AT PROJECT COMPLETION.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING ANY CONSTRUCTION DEBRIS OF SEDIMENT FROM EXISTING ROADS AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. ALL ROADWAYS SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO SUBSTRATIAL COMPLETION OF
- NO RUNOFF ORIGINATING FROM THE PROJECT AREA OR DIRECTED ONTO IT FROM UPSTREAM AREAS SHALL LEAVE THE BOUNDARIES OF THE PROJECT AREA UNLESS IT PASSES THROUGH A CONTROL MEASURE OR CONTROL FACILITY.
- 7. THE SITE SHALL BE CONSIDERED TO BE PERMANENTLY STABILIZED WHEN:

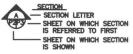
 ALL PERMANENT CONTROL MEASURES HAVE BEEN COMPLETED AND ARE
 OPERATIONAL.

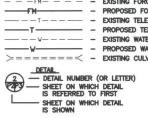
 TEMPORARY CONTROL MEASURES HAVE BEEN REMOVED.

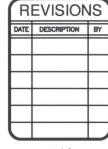
 UNIFORM EROSION RESISTANT PERENNAL VEGETATION IS ESTABLISHED TO
 THE POINT WHERE THE SURFACE SOIL IS CAPABLE OF RESISTING EROSION
 DURING RUNOFF EVENTS. THE STANDARD FOR THIS VEGETATIVE COVER WILL
 BIE A UNIFORM COVERAGE OR DENSITY OF 70% ACROSS THE DISTURBED AREA.

LEGEND

LEGE				PROPERTY LINE
<u> </u>	TEMPORARY BENCH MARK		_	APPROXIMATE RIGHT—OF—WAY
⊠ -	MONUMENT FOUND			EXISTING EASEMENT
—	NEW FIRE HYDRANT			PROPOSED TEMPORARY EASEMENT
Δ -	EXISTING FIRE HYDRANT		_	EXISTING FENCE
◎ -	NEW GATE/TAPPING VALVE		Ξ	PROPOSED FENCE
×	SOIL BORING LOCATION	0000000	_	TREE LINE
O _{MB} −	EXISTING VALVE	5.30	Ξ	EXISTING CONTOUR LINE
_	MAILBOX		_	PROPOSED CONTOUR LINE
—» <u> </u>	GUY WIRE	(530)	_	DITCH FLOWLINE
	LIGHT POLE		_	The state of the s
oco -	CLEAN OUT	—E	-	EXISTING ELECTRIC SERVICE
0 -	EXISTING MANHOLE	—Е——	_	PROPOSED ELECTRIC SERVICE
• -	PROPOSED MANHOLE	c	_	EXISTING CABLE SERVICE
w -	WATER METER		-	PROPOSED CABLE SERVICE
© -	GAS METER		-	EXISTING GAS LINE
0 -	MISC. OBJECT	——G———	-	PROPOSED GAS LINE
Δ -	P.K. NAIL		-	EXISTING STORM SEWER
	POWER POLE	T2	-	PROPOSED STORM SEWER
-O- -	UTILITY POLE	s	-	EXISTING SANITARY SEWER
ريع -	TREE OR SHRUB	s	-	PROPOSED SANITARY SEWER
4	THEE ON SHINED	FM	-	EXISTING FORCEMAIN SEWER
+538.20 -	EXISTING SPOT ELEVATION	-FM-	-	PROPOSED FORCEMAIN SEWER
		———т———	-	EXISTING TELEPHONE LINE
538.50	PROPOSED CURB AND	—т—	-	PROPOSED TELEPHONE LINE
538.00	GUTTER ELEVATIONS		_	EXISTING WATER LINE
V-PT3) -	VALVE /CATE IDENTIFICATION	v	-	PROPOSED WATER LINE
V-F13) -	VALVE/GATE IDENTIFICATION	>======	-	EXISTING CULVERT







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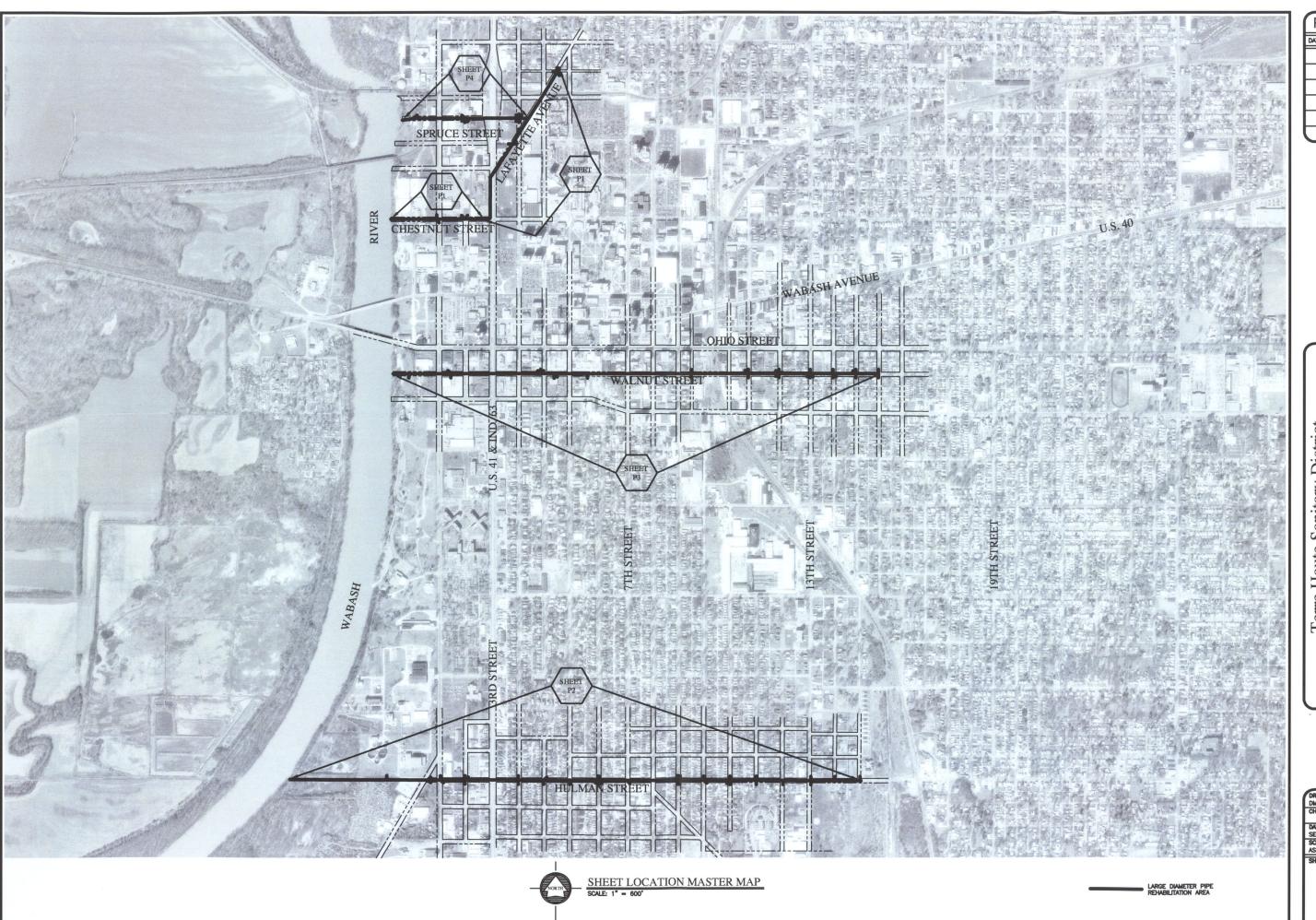
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SHEET INDEX Sheet G1 General Notes and Index Sheet G2 Sheet Location Master Map Plan Sheets Chestnut Street & Lafavette Avenue Plan Sheet Sheet P1 Hulman Street Plan Sheet Sheet P2 Sheet P3 Walnut Street Plan Sheet Sheet P4 Spruce Street Plan Sheet Details Sheet DT1 Miscellaneous Details



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Terre Haute Sanitary District Large Diameter Sewer Rehabilitation 2005

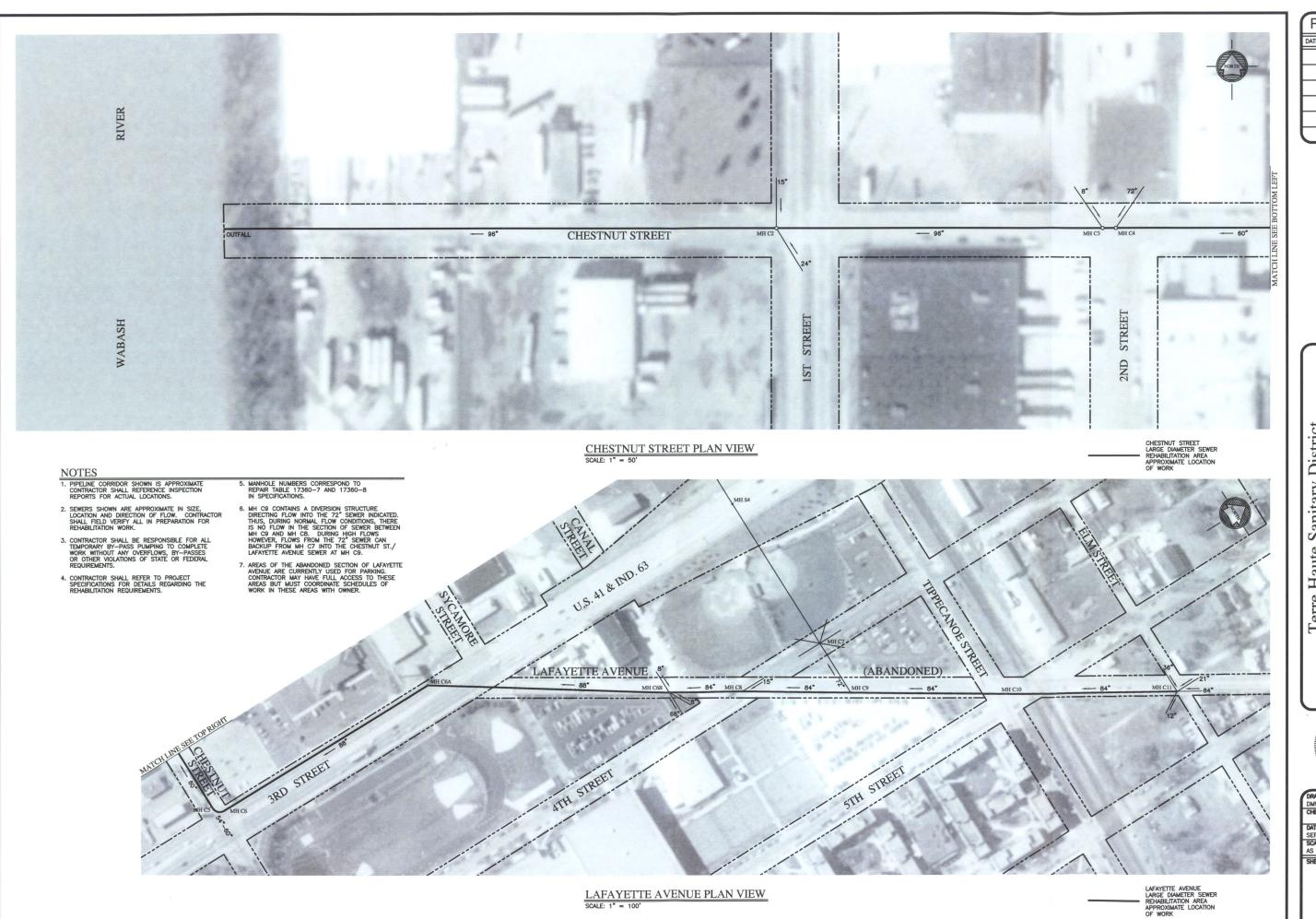
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Avenue Plan Sheet

Lafayette

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Street

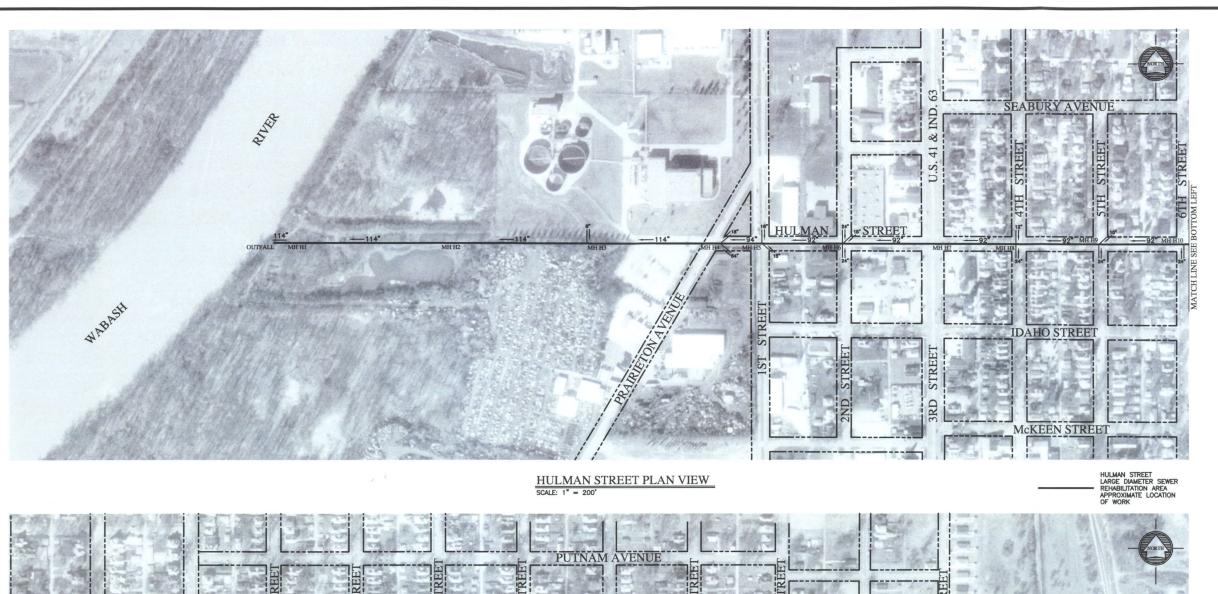
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HULMAN STREET PLAN VIEW
SCALE: 1" = 200'

HULMAN STREET
LARGE DIAMETER SEWER
REHABILITATION AREA
APPROXIMATE LOCATION
OF WORK

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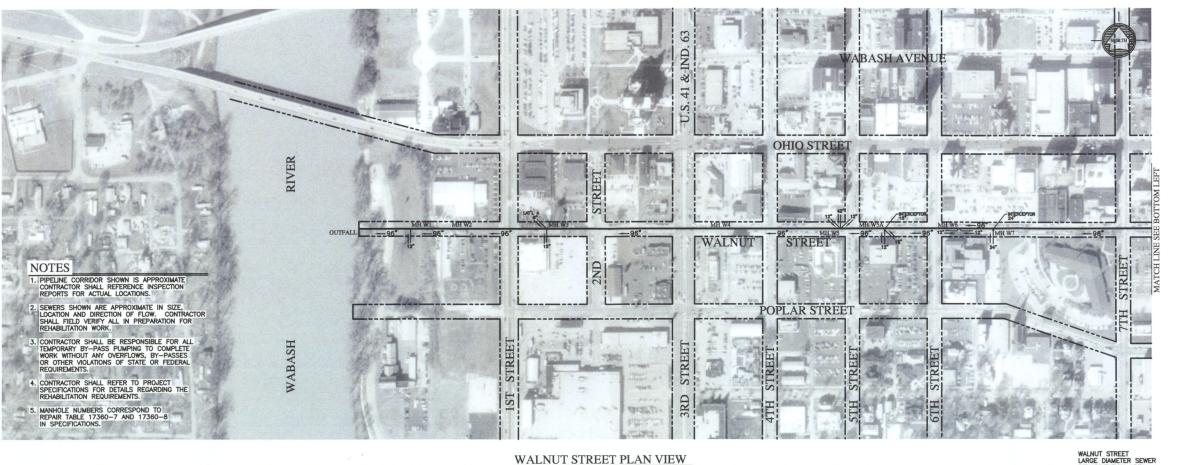
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WALNUT STREET LARGE DIAMETER SEWER REHABILITATION AREA APPROXIMATE LOCATION OF WORK



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Plan

Street]

Walnut

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Terre Haute Sanitary District Diameter Sewer Rehabilitation 2005 Large

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AS SHOWN

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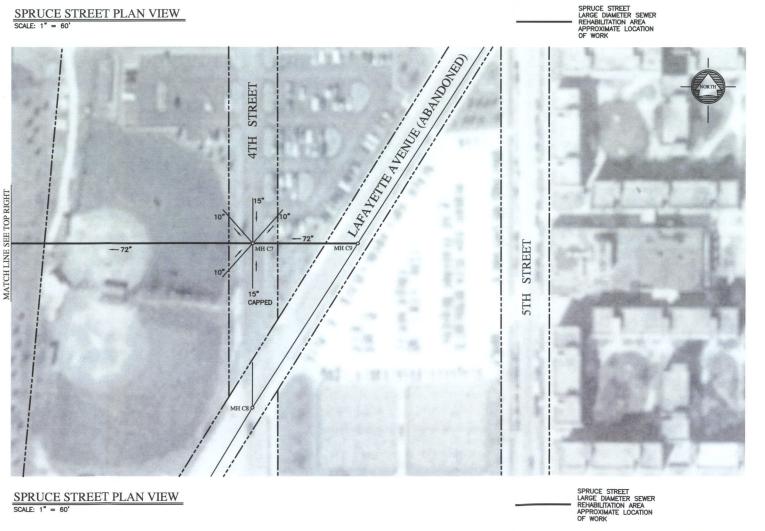
WALNUT STREET PLAN VIEW

WALNUT STREET
LARGE DIAMETER SEWER
REHABILITATION AREA
APPROXIMATE LOCATION
OF WORK



NOTES

- PIPELINE CORRIDOR SHOWN IS APPROXIMATE CONTRACTOR SHALL REFERENCE INSPECTION REPORTS FOR ACTUAL LOCATIONS.
- SEWERS SHOWN ARE APPROXIMATE IN SIZE, LOCATION AND DIRECTION OF FLOW. CONTRACTOR SHALL FIELD VERIFY ALL IN PREPARATION FOR REMABILITATION WORK.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BY-PASS PUMPING TO COMPLETE WORK WITHOUT ANY OVERFLOWS, BY-PASSES OR OTHER VIOLATIONS OF STATE OR FEDERAL REQUIREMENTS.
- 4. CONTRACTOR SHALL REFER TO PROJECT SPECIFICATIONS FOR DETAILS REGARDING THE REHABILITATION REQUIREMENTS.
- MANHOLE NUMBERS CORRESPOND TO REPAIR TABLE 17360-7 AND 17360-8 IN SPECIFICATIONS.
- 6. MH C9 CONTAINS A DIVERSION STRUCTURE DIRECTING FLOW INTO THE 72" SEWER INDICATED. THUS, DURING NORMAL FLOW CONDITIONS, THERE IS NO FLOW IN THE SECTION OF SEWER BETWEEN MH C9 AND MH C8. DURING HIGH FLOWS HOWEVER, FLOWS FROM THE 72" SEWER CAN BACKUP FROM MH C7 INTO THE CHESTNUT ST./ LAFAYETTE AVENUE SEWER AT MH C9.
- 7. THE SPENCE SEWER IS LOCATED ADJACENT TO THE CITY OF TERRE HAUTE'S WELLHEAD PROTECTION AREA. THIS SEWER FROM MH C9 TO THE OUTPALL SHALL BE REHABILITATED UTILIZING METHOD \$\frac{1}{2}\$ SHOTCRETE/PERMA—CAST WHICH CONSISTS OF "PERMA—CAST" MATERIAL IN THE "LOWER" 1/3 OF THE PIPE SECTION AS SHOWN IN DETAIL 6 ON SHEET DT1 AND DESCRIBED IN SECTION 02726 OF THE TECHNICAL SPECIFICATIONS.





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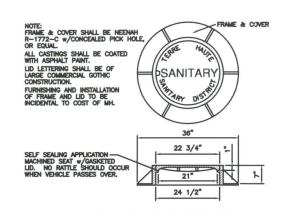
Plan

Street]

Spruce

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SCALE
AS SHOWN SHEET **P4**



STANDARD FRAME AND COVER DETAIL

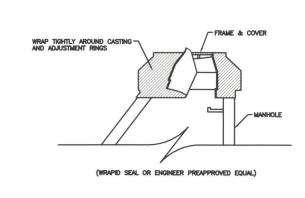
SANITARY SEWER MANHOLE FRAME AND COVER DETAIL NOT TO SCALE

RICK

FILL ALL VOILS -

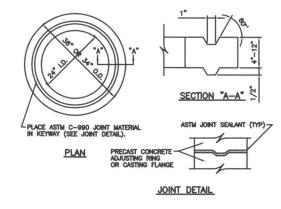
METHOD 1 SHOTCRETE
NOT TO SCALE

EXISTING BRICK— SEWER



MANHOLE SEAL DETAIL NOT TO SCALE

INSTALL #4 © 8" CIRCUMFERENTIALLY-CENTERED IN CROWN OF PIPE TO A LENGTH EQUILVALENT TO 1/4 OF SEWER CIRCUMFERENCE



MANHOLE RISER DETAIL
NOT TO SCALE

MANHOLE REPAIR METHODS

TYPE 'M1' RESET AND OR ADJUST CASTING TO GRADE. SEAL FRAME AND RISER TO CORBEL.

TYPE 'M2' SEAL FRAME AND RISER TO CORBEL.

TYPE 'M6' RESET AND OR ADJUST CASTING TO GRADE.
SEAL FRAME AND RISER TO CORBEL. PATCH
AND WIPE ENTIRE MANHOLE.

SECURE REINFORCEMENT TO EXISTING SEWER WITH HOOK BOLTS AS SPECIFIED AT 24" APART ALONG CIRCUMFERENCE OF SEWER (TYPICAL) EXISTING REINFORCED CONCRETE SEWER FILL ALL VOILS -WITH SHOTCRETE - Install 2"x2" 12/12 gauge galvanized metal wire mesh confirming to astm A-185 EXISTING BRICK --APPLY 2" OF PERMACAST MS-10,000 MORTAR AS SPECIFIED IN SECTION 02728 IN THE TECHNICAL SPECIFICATIONS IN THE "LOWER" 1/3 OF THE PIPE SECTION. TRANSITION TO SHOTCRETE MATERIAL AS PER SPECIFICATIONS. USE PERMACAST PLUG ONLY IF PIPE CONDITIONS REQUIRE.

METHOD 2 SHOTCRETE
NOT TO SCALE

FILL ALL VOILS -

- INSTALL #4 @ 12" LONGITUDINALLY CENTERED IN CROWN OF PIPE TO A LENGTH EQUILVALENT TO 1/4 OF SEWER CIRCUMFERENCE

- APPLY 4" OF SHOTCRETE INSIDE OF ORIGNAL PIPE SURFACE LINE WITH SMOOTH BROOM FINISH

SHOTCRETE REHABILITATION TYPES

- SECURE REINFORCEMENT TO EXISTING SEWER WITH HOOK BOLTS AS SPECIFIED AT 24" APART ALONG CIRCUMFERENCE OF SEWER (TYPICAL)

APPLY 2" OF SHOTCRETE INSIDE OF ORIGNAL PIPE SURFACE LINE WITH SMOOTH BROOM FINISH

SHOTCRETE METHOD 1 2-INCH SHOTCRETE LAYER WITH STEEL MESH.

4—INCH THICK SHOTCRETE LAYER WITH STEEL MESH IN ADDITION INSTALL \$4 BARS PLACED CIRCUMFERENTIALLY AT 8" CENTERS IN THE CROWN OF THE PIPE AND \$4 BARS LONGTUDINALLY EVERY 12" WITH A TOTAL LENGTH OF 1/4 OF THE CIRCUMFERENCE OF THE PIPE.

METHOD 3 SHOTCRETE/PERMA-CAST NOT TO SCALE

NOTE: THIS METHOD TO BE USED ON THE SPRUCE STREET SEWER IN WELLHEAD PROTECTION AREA ONLY.

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Miscellaneous Details

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CHECKED BY OCTOBER 7, 2005 SCALE AS SHOWN