CONTRACTOR TO VERIFY THE TYPE, DIRECTION, DEPTH, AND SIZE OF ALL PIPES INTO MANHOLES PRIOR TO ORDERING THE MANHOLES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE SANITARY SEWER IN SERVICE DURING THE INSTALLATION OF THE NEW SANITARY SEWER MANHOLE. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ON THE PROCEDURE THE CONTRACTOR WILL USE.

PAYMENT OF ITEM 611, MANHOLE MISC.: TYPE 3 SANITARY MANHOLE, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 611 CONDUIT, TYPE B, AS PER PLAN, (SANITARY)

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS AND DRAINS, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL CONSIST OF EXCAVATION, STRUCTURAL BEDDING, INSTALLATION OF THE NEW SANITARY SEWER, STRUCTURAL BACKFILL, COMPACTION, AND ALL REQUIRED TESTING PER CITY STANDARDS THIS ITEM SHALL ALSO INCLUDE ANY DEWATERING NECESSARY FOR INSTALLATION OF SANITARY.

IN REPLACEMENT SITUATIONS THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. WHEN A NEW SANITARY SEWER MAIN, CONNECTS TO AN EXISTING
SEWER MAIN A FERNCO COUPLING SHALL BE INSTALLED. THE COST OF
THE COUPLING AND ASSOCIATED WORK SHALL BE INCLUDED IN THE COST
OF THE PROPOSED SANITARY SEWER MAIN.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE EXISTING SANITARY SEWER MAIN IN SERVICE DURING THE INSTALLATION OF THE NEW SANITARY SEWER. CONTRACTOR IS ALSO TO CONNECT ALL EXISTING SERVICES TO MAIN.

3. IF THE CONTRACTOR DEEMS BYPASS PUMPING NECESSARY, CONTRACTOR SHALL PUMP THE EXISTING SEWAGE STARTING FROM THE NEXT UPSTREAM MANHOLE TO THE NEXT DOWN STREAM MANHOLE LOCATED OUTSIDE OF THE PROJECT LIMITS, OR AS DIRECTED BY THE CITY. IF BYPASS PUMPING, THE CONTRACTOR IS TO HAVE ON SITE ONE SPARE PUMP AND NECESSARY PUMP LINE IN CASE OF EMERGENCY.

4. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ON THE PROCEDURE THE CONTRACTOR WILL USE PRIOR TO STARTING ANY WORK.

PAYMENT OF ITEM 611, SANITARY SEWER, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT FOOT BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 611 6" CONDUIT, TYPE B, AS PER PLAN, 707.45 (SANITARY)

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 611, PIPE CULVERTS, SEWERS AND DRAINS, EXCEPT AS HEREIN MODIFIED.

THIS WORK SHALL CONSISTS OF THE EXCAVATION, STRUCTURAL BEDDING, INSTALLATION OF THE SANITARY SEWER LATERAL (INCLUDING ALL WYES, TEES, BENDS, CLEANOUT (IF APPLICABLE), PLUG/CAP AND PAINTED POST (FOR NEW), AND FERNCO COUPLING (TO TIE INTO EXISTING LATERAL), STRUCTURAL BACKFILL, COMPACTION, AND ALL REQUIRED TESTING. EACH LATERAL SHALL BE INSTALLED PER ONE OF THE OPTIONS SHOWN IN THE PLANS.

IN REPAIR SITUATIONS, TO AVOID CONFLICTS WITH THE PROPOSED CONSTRUCTION, THE SANITARY SEWER LATERAL SHALL BE REPLACED TO THE STREET RIGHT-OF-WAY OR AS INDICATED IN THE PLANS. THIS WORK SHALL CONSIST OF EXCAVATION, STRUCTURAL BEDDING, INSTALLATION OF THE SANITARY SEWER LATERAL (INCLUDING ALL FITTINGS, BENDS, ETC.), STRUCTURAL BACKFILL, COMPACTION CLEANOUT (IF APPLICABLE) AND FERNCO COUPLING (TO TIE INTO EXISTING). TESTING OF THE LATERAL WILL BE WAIVED.

ITEM 611 6" CONDUIT, TYPE B, AS PER PLAN, 707.45 (SANITARY)

THE SANITARY LATERAL SHALL BE PAID FOR BY THE HORIZONTAL FOOT INSTALLED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR VERTICAL SECTIONS OF PIPE INSTALLED.

EACH SANITARY LATERALS SHALL BE INSTALLED PER THE DETAIL SHOWN IN THE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE SANITARY SEWER IN SERVICE DURING THE INSTALLATION. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ON THE PROCEDURE THE CONTRACTOR WILL USE.

ITEM 611 - CONDUIT MISC.: 16" STEEL ENCASED CONDUIT, BORED AND JACKED

WHERE IT IS SPECIFIED THAT A CONDUIT BE INSTALLED BY THE METHOD OF BORING OR JACKING, NO TRENCH EXCAVATION SHALL BE CLOSER THAN 25 FEET TO THE (EDGE OF PAVEMENT) (NEAREST RAIL). PROVIDE A STEEL CASING PIPE CONFORMING TO 748.06. JOINTS WITH A CIRCUMFERENTIAL FULLY PENETRATING BU4B WELD THAT IS PERFORMED BY BY CERTIFIED WELDER FOR WELDING CODE AMERICAN WELDING SOCIETY (AWS) D1.1. THE INSTALLED CASING PIPE IS THE STORM WATER CONVEYANCE CARRIER UNLESS OTHERWISE SPECIFIED IN THE PLANS. HYDROSTATIC TESTING IS NOT REQUIRED FOR THE CASING PIPE. ADDITIONAL NOTES AND DETAILS CAN BE FOUND ON SHEET 123.

ITEM 611 - CONDUIT UNDER RAILROAD

THE DEPARTMENT WILL PAY TO THE RAIL COMPANY ALL COSTS FOR WATCHMEN OR FLAGGERS DEEMED NECESSARY BY THE RAIL COMPANY DURING THE INSTALLATION OF CONDUIT UNDER THE RAILROAD. ANY COSTS FOR WATCHMEN OR FLAGGERS REQUIRED BY AN ALTERNATE METHOD OF INSTALLATION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE COSTS FOR WATCHMEN OR FLAGGERS DUE TO THE NEGLIGENCE OF THE CONTRACTOR, OR ANY SUB-CONTRACTOR, IN CONNECTION WITH THE INSTALLATION OF THE CONDUIT MUST BE PAID BY THE CONTRACTOR.

TRACK SUPPORTS REQUIRED BY THE RAIL COMPANY IN CONNECTION WITH THE INSTALLATION OF THE CONDUIT ARE INCLUDED IN THE COMPANY FORCE ACCOUNT WORK AND PAID BY THE DEPARTMENT. THE COST OF ANY TRACK SUPPORTS REQUIRED BY AN ALTERNATE METHOD OF INSTALLATION OF CONDUIT ARE THE RESPONSIBILITY OF THE CONTRACTOR.

THE CONTRACTOR IS RESPOSIBLE TO SECURE APPROVAL OF OPERATIONS FROM THE DEPARTMENT AND THE RAIL COMPANY. THE RAIL COMPANY WILL PERFORM AN ENGINEERING REVIEW OF METHODS OF OPERATIONS AND ENGINEERING SUPERVISION OF CONSTRUCITON WITHOUT COST TO THE CONTRACTOR.

PRIOR TO BIDDING, COORDINATE WITH THE RAIL COMPANY TO AGREE UPON THE REQUIREMENTS OF WATCHMEN AND FLAGGERS TO PROTECT RAILROAD TRAFFIC DURING THE CONTRACTOR'S OPERATIONS. EXECUTE A BOND IN FAVOR OF BOTH THE STATE AND THE COMPANY AS REQUIRED BY SECTION 5525.16 OF THE REVISED CODE OF OHIO.

COORDINATE WITH THE RAIL COMPANY CONCERNING WORK ADJACENT TO RAILROAD TRACKS, IN ORDER TO AVOID DELAY TO, OR INTERFERENCE WITH RAILROAD TRAFFIC, AND NOTIFY THE RAIL COMPANY 72 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.

ITEM 638 WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN

THIS ITEM OF WORK SHALL APPLY TO ALL WATERMAIN SIZES AND SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638 WATER MAINS AND SERVICE BRANCHES EXCEPT AS HEREIN MODIFIED. ALL MATERIALS, PROCEDURES, AND TESTING USED SHALL CONFORM WITH THE CITY ENGINEERING STANDARDS AND SPECIFICATIONS. ALL FITTINGS SHALL BE MADE IN THE USA. THE CONTRACTOR WILL PERFORM THE WATER MAIN HYDROSTATIC AND CHLORINATING TEST. BACTERIA TEST WILL BE PERFORMED BY THE CITY. NO WATER SERVICES SHALL BE TIED INTO THE NEW WATER MAIN UNTIL A SUCCESSFUL BACTERIA TEST IS COMPLETED. PAVEMENT RESTORATION, CURB AND GUTTER, CONCRETE PAVEMENT AND SIDEWALK REPLACEMENT SHALL BE PAID UNDER THEIR RESPECTIVE ITEM NUMBER. HOWEVER, STRUCTURAL BEDDING AND ANY REQUIRED STRUCTURAL BACKFILL SHALL BE INCLUDED WITH THIS ITEM. ALL WATER MAIN SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE REMOVAL OF THE EXISTING STREET. WORK SHALL INCLUDE THE 8 MIL. POLYETHYLENE WRAP REQUIRED FOR ALL SADDLES, FITTINGS AND FIRE HYDRANTS. PAYMENT FOR ITEM 638 WATER MAIN, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT FOOT BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 638 POLYETHYLENE SERVICE BRANCH, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638, FURNISHING AND INSTALLING SERVICE BRANCHES, EXCEPT AS HEREIN MODIFIED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE TAP, INCLUDING ALL COORDINATION, TAPPING SADDLES, CORPORATION STOPS, SERVICE STOPS AND SERVICE BOXES IF APPLICABLE. PAYMENT FOR ITEM 638 POLYETHYLENE SERVICE BRANCHES, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT FOOT BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 638 METER SETTING, STOP AND CHAMBER, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF THE WORK AS DESCRIBED IN OHIO DEPARTMENT OF TRANSPORTATION ITEM 638, METER, SETTING, STOP, AND CHAMBER EXCEPT AS HEREIN MODIFIED. FOR SINGLE METERS, THIS ITEM SHALL CONSIST OF ALL PARTS THAT ARE LISTED UNDER EACH SPECIFIC METER SIZE. PAYMENT FOR ITEM 638 METER, SETTING, STOP, AND CHAMBER, AS PER PLAN, FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE AT THE CONTRACT EACH BID PRICE AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM SPECIAL - MAILBOX REMOVED AND RESET

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS. AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

RAILROAD COORDINATION

AS CLARIFICATION, THE RAIL LINE INVOLVED IS OWNED BY CSX TRANSPORTATION, BUT LEASED TO THE CHICAGO, FORT WAYNE & EASTERN (CFE) FOR MAINTENANCE AND OPERATION. THE CONTRACTOR SHOULD REFER TO THE "SPECIAL CLAUSES IN THE PROPOSAL" FOR ALL NECESSARY INSURANCE, CONTACT AND SAFETY INFORMATION REQUIRED BY CFE BEFORE WORK CAN BEGIN ON THE RAILROAD ROW.

CSX GENERAL NOTES FOR WORK WITHIN CSX PROPERTY

- 1. REFER TO THE CSX PIPELINE DESIGN & CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENTS OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.
- 3. THE OPERATIONS SHALL BE PROGRESSED ON A 24-HR BASIS WITHOUT STOPPAGE (EXCEPT FOR ADDING LENGTHS OF PIPE) UNTIL THE LEADING EDGE OF THE PIPE HAS REACHED THE RECEIVING PIT.
- 4. THE AUGER AND CUTTING HEAD ARRANGEMENT SHALL BE REMOVABLE FROM WITHIN THE PIPE IN THE EVENT AN OBSTRUCTION IS ENCOUNTERED.
- 5. PIPELINE SHALL BE PROMINENTLY MARKED AT BOTH SIDES OF THE CSX PROPERTY LINES BY DURABLE, WEATHERPROOF SIGNS LOCATED OVER THE CENTERLINE OF THE PIPE IN ACCORDANCE WITH CSX SPECIFICATIONS.
- 6. NO CONSTRUCTION OR ENTRY UPON THE CSX CORRIDOR IS PERMITTED UNTIL THE DOCUMENT TRANSACTION IS COMPLETED, YOU ARE IN RECEIPT OF A FULLY EXECUTED DOCUMENT, AND YOU HAVE OBTAINED AUTHORITY FROM THE LOCAL ROADMASTER.
- 7. IF REQUIRED, A DEWATERING PLAN IN ACCORDANCE WITH CSX
 SPECIFICATIONS WILL BE SUBMITTED TO THE CSX REPRESENTATIVE
 FOR REVIEW AND APPROVAL PRIOR TO ANY DEWATERING
 OPERATIONS. CSX PROHIBITS THE DISCHARGE OF WATER ONTO ITS
 PROPERTY WITHOUT PRIOR APPROVAL.
- 8. BLASTING IS NOT PERMITTED UNDER OR ON CSX PROPERTY.
- 9. CSX DOES NOT GRANT OR CONVEY AN EASEMENT FOR THIS INSTALLATION.
- 10. EXISTING PIPES TO BE ABANDONED WILL BE COMPLETELY FILLED WITH CEMENT GROUT OR COMPACTED SAND.
- 11. PROJECTS THAT GENERATE SOILS FROM CSX PROPERTY MUST ADHERE TO CSX's SOIL MANAGEMENT POLICIES. CSX REQUIRES SOILS GENERATED FROM ITS PROPERTY TO EITHER BE PROPERLY DISPOSED IN A CSX APPROVED DISPOSAL FACILITY OR REUSED ON CSX PROPERTY. THE MANAGEMENT OF SOILS GENERATED FROM CSX PROPERTY SHOULD BE PLANNED FOR AND PROPERLY PERMITTED (IF APPLICABLE) PRIOR TO INITIATING ANY WORK ON CSX PROPERTY.

ENVIRONMENTAL COMMITMENT NOTES

- THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY ENDANGERED INDIANA BAT AND NORTHERN LONG-EARED BAT, AND THE STATE ENDANGERED LITTLE BROWN AND TRICOLORED BATS. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT AND ORC 1531.25. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FFFT.
- 2. THE PROJECT IS LOCATED WITHIN THE KNOWN NESTING RANGE OF THE STATE ENDANGERED UPLAND SANDPIPER (BIRD). THE CITY OF VAN WERT WILL INSTRUCT THE AIRPORT TO MOW THE GRASSY AREA BETWEEN STA 33+10 AND STA 36+10 SOUTH OF LEESON AVENUE PRIOR TO APRIL 1ST. TO DISCOURAGE THE BIRDS FROM NESTING IN THIS AREA DURING THE CONSTRUCTION OF THIS PROJECT, THIS AREA MUST BE ROUTINELY MOWED DURING THE NEST SEASON OF APRIL 1ST THROUGH JULY 31ST. ROUTINE MOWING CAN STOP ONCE CONSTRUCTION IN THIS AREA HAS BEEN COMPLETED.

PAYMENT FOR ROUTINE MOWING SHALL BE PAID AT THE CONTRACT MSF BID PRICE FOR ITEM 659, MOWING. A QUANTITY OF 48 MSF HAS BEEN INCLUDED IN THE BID FOR THIS ITEM OF WORK.

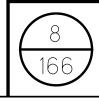
- 3. ACCESS TO SMILEY PARK SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR THE TIME NEEDED TO TEMPORARILY OCCUPY THE PROPERTY, WHICH SHALL BE LESS THAN THE TIME NEEDED TO CONSTRUCT THE PROJECT.
- 4. TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED ALONG THE PROPOSED CONSTRUCTION LIMITS WITHIN SMILEY PARK PRIOR TO THE START OF CONSTRUCTION TO PROTECT THE PARK PROPERTY AND THE PUBLIC.

PAYMENT FOR THE CONSTRUCTION FENCING AT SMILEY PARK SHALL BE AT THE CONTRACT LUMP SUM BID PRICE ITEM 607, FENCE MISC.: CONSTRUCTION FENCING.

5. APPROPRIATE SIGNAGE SHALL BE INSTALLED TO ALERT USERS OF SMILEY PARK OF CONSTRUCTION ACTIVITIES, ACCESS RESTRICTIONS OR CLOSURES, AND TO DIRECT USERS TO SECONDARY ACCESS POINTS.

PAYMENT FOR THE APPROPRIATE SIGNAGE SHALL BE INCIDENTAL TO ITEM 614 MAINTENANCE OF TRAFFIC.

6. THE CONTRACTOR SHALL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH ODOT AND THE CITY OF VAN WERT PRIOR TO THE START OF CONSTRUCTION ACTIVITIES THAT MAY IMPACT SMILEY PARK.



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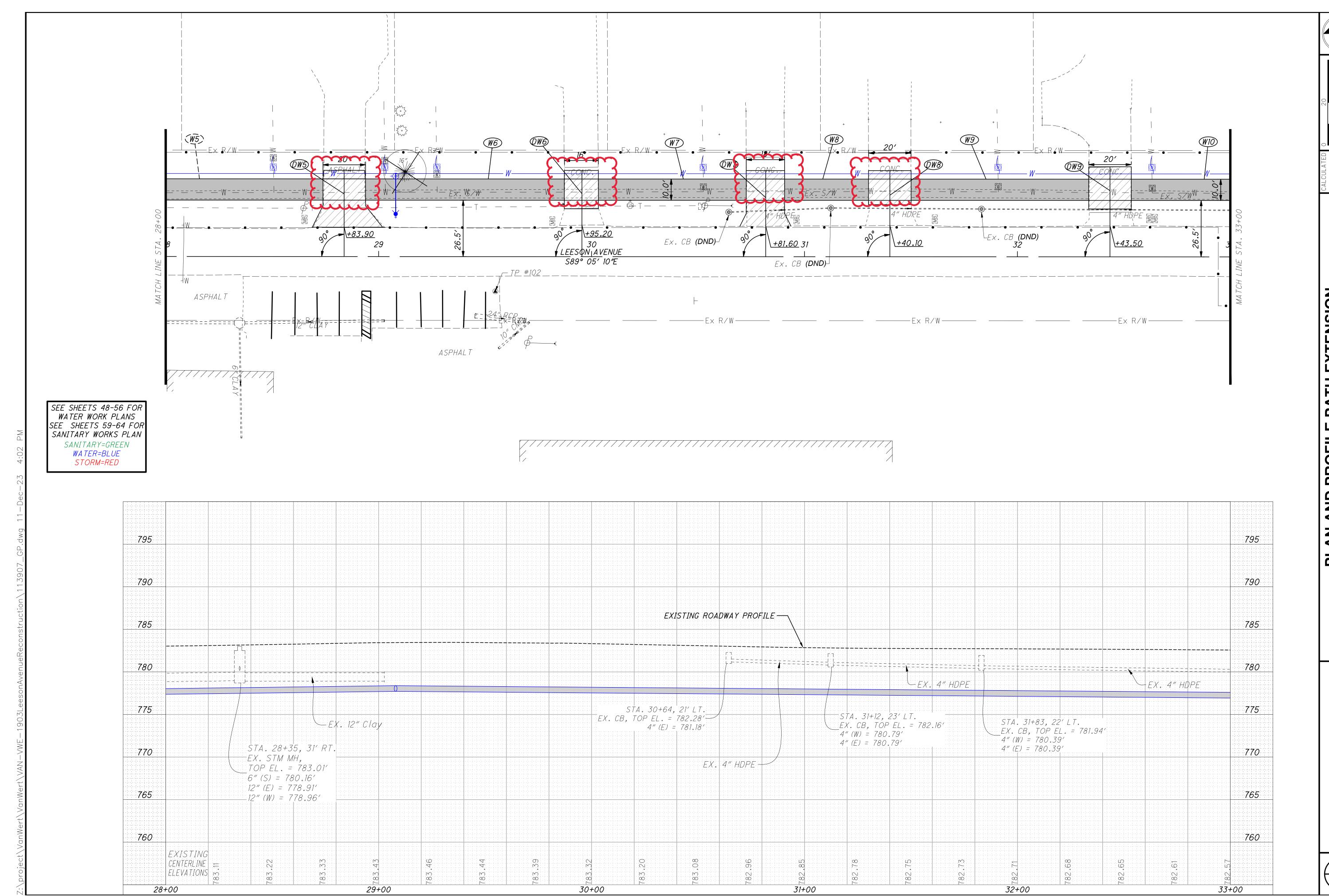
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7, 12	MANHOLE, NO. 3 WITH 90 BASE I.D. AND 9 WEIK  MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN		5	99661	611		2	3	2				3						
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	LOW STRENGTH MORTAR BACKFILL	CY	2	41200	613			2									2		
								<u> </u>		<u> </u>		<u> </u>							
ļ	MANUFACTURED WATER QUALITY STRUCTURE, TYPE 3	EACH	1	10030	895			1		<u> </u>		<b></b>		1					
<u> </u>										<u> </u>		<u> </u>			<b></b>				
	PAVEMENT						<b></b> /	<u> </u>	<del>                                     </del>	<del> </del>		<del>                                     </del>	<b></b> /	$\longrightarrow$	$\longrightarrow$				
7	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, VARIABLE DEPTH		872	01001	254			872		<del></del>		<del>                                     </del>	<b></b>	<del>                                     </del>	<del>                                     </del>			872	
/	PATCHING PLANED SURFACE, AS PER PLAN	SY	44	01601	254			44		<del> </del>		<del> </del>			<del>                                     </del>		$\longrightarrow$	44	
1	ASPHALT CONCRETE BASE, PG64-22, (449)	CY	1,329	56000	302			1,329	-									1,329	
<del> </del>	ASPHALI CONCRETE BASE, PG04-22, (443)		1,329	30000	302			1,329	-		+							1,323	
1	AGGREGATE BASE	СУ	3,179	20000	304	522		2,657							44		478	2,657	
†	NON-TRACKING TACK COAT		1,515	20000	407	322		1,515							1		1	1,513	
		1	_,		101														
	SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS	FT	792	30000	409			792										792	
				20000			2000												
	STABILIZED CRUSHED AGGREGATE	CY	2,415	10000	411	1,119		1,296							270	226	623	1,296	
		<del>The same and the </del>								<u> </u>			<u> </u>	<u> </u>	m				
	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	CY	911	70000	441			911	<u> </u>	<u> </u>		<u> </u>					1	910	
<b>_</b>	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)		582	70300	441			582	<u> </u>	<b></b>	<b></b>	<b></b>						582	
<u> </u>	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)		1	70500	441	1			<u> </u>	<u> </u>		<u> </u>		<b></b>	1				
1	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (DRIVEWAYS)	CY	2	70600	441	2	<b></b>	<u> </u>	<u> </u>	<del>                                     </del>		<b></b>	<b></b> /	<del>                                     </del>	2		$\longrightarrow$		
<u> </u>	CU NON DEINEODOED CONODETE DAVENTENT CLASS OC 1D	**************************************	1.007	10010	452	1 607					<del></del>		m	m	1 607				
	5" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	<del>min</del>	1,607	10010	452	1,607							لسط		1,607				
5	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	FT	6,422	12001	609			6,422			+						6,422		
<del>                                     </del>	CURB, TYPE 6		36	26000	609	36		0,422			<b>†</b>				9		27		
1		1																	
	WATER WORK	+																	
														L		1			
	METER VAULT REMOVED	EACH	72	75600	202		72			23	36	13							
	METER VAULT REMOVED VALVE BOX REMOVED		72 11	75600 75610	202 202		72 11			23 11	36	13							
	VALVE BOX REMOVED	EACH	11	75610	202		11			11	36								
8, 12	VALVE BOX REMOVED 4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN	EACH FT	11 87	75610 00521	638		11 87			23	36	87							
8, 12	VALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN	EACH FT FT	11 87 279	75610 00521 01131	202 638 638		11 87 279			23	36	87 279							
8, 12 8, 12	VALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN	FT FT FT	87 279 3,593	75610 00521 01131 01721	638 638 638		87 279 3,593			23	36	87 279 3,593							
8, 12 8, 12 8, 12	VALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN	FT FT FT	11 87 279 3,593 718	75610 00521 01131 01721 02321	638 638 638 638		11 87 279 3,593 718			23		87 279							
8, 12 8, 12	VALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN	FT FT FT	87 279 3,593	75610 00521 01131 01721	638 638 638		87 279 3,593			23	36	87 279 3,593							
8, 12 8, 12 8, 12 8, 12	VALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN	FT FT FT FT	11 87 279 3,593 718 46	75610 00521 01131 01721 02321 05301	638 638 638 638 638		11 87 279 3,593 718 46			23	46	87 279 3,593 718							
8, 12 8, 12 8, 12 8, 12 8, 12	WALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN	FT FT FT FT	11 87 279 3,593 718 46	75610 00521 01131 01721 02321 05301 05401	638 638 638 638 638		11 87 279 3,593 718 46			23	46	87 279 3,593 718							
8, 12 8, 12 8, 12 8, 12	VALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN	FT FT FT FT FT FT	11 87 279 3,593 718 46	75610 00521 01131 01721 02321 05301	638 638 638 638 638		11 87 279 3,593 718 46			23	46	87 279 3,593 718							
8, 12 8, 12 8, 12 8, 12 8, 12	WALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN	FT FT FT FT FT FT FT	11 87 279 3,593 718 46 2,219 145	75610 00521 01131 01721 02321 05301 05401 05501	638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145			23	46	87 279 3,593 718 447 82							
8, 12 8, 12 8, 12 8, 12 8, 12	WALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  3/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  2" POLYETHYLENE SERVICE BRANCH	FT	11 87 279 3,593 718 46 2,219 145 11	75610 00521 01131 01721 02321 05301 05401 05501 05600	638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11			23	46	87 279 3,593 718 447 82 11							
8, 12 8, 12 8, 12 8, 12 8, 12	WALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  2" POLYETHYLENE SERVICE BRANCH  16" STEEL PIPE ENCASEMENT, BORED OR JACKED	FT	11 87 279 3,593 718 46 2,219 145 11	75610 00521 01131 01721 02321 05301 05401 05501 05600 07300	638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11			23	46	87 279 3,593 718 447 82 11							
8, 12 8, 12 8, 12 8, 12 8, 12	WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN 6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN 8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN 10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN 8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN 1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN 1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN 2" POLYETHYLENE SERVICE BRANCH 16" STEEL PIPE ENCASEMENT, BORED OR JACKED 4" GATE VALVE AND VALVE BOX	FT FT FT FT FT FT FT EACH	11 87 279 3,593 718 46 2,219 145 11 54 1	75610  00521 01131 01721 02321 05301  05401 05501 05600 07300 07700  07800	638 638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11 54 1			23	46	87 279 3,593 718 447 82 11 54 1							
8, 12 8, 12 8, 12 8, 12 8, 12	WALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  2" POLYETHYLENE SERVICE BRANCH  16" STEEL PIPE ENCASEMENT, BORED OR JACKED  4" GATE VALVE AND VALVE BOX  8" GATE VALVE AND VALVE BOX	EACH  FT FT FT FT FT FT FT EACH  EACH	11 87 279 3,593 718 46 2,219 145 11 54 1	75610  00521 01131 01721 02321 05301  05401 05501 05600 07300 07700  07800 07900	638 638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11 54 1			23	46	87 279 3,593 718 447 82 11 54 1							
8, 12 8, 12 8, 12 8, 12 8, 12	WALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  2" POLYETHYLENE SERVICE BRANCH  16" STEEL PIPE ENCASEMENT, BORED OR JACKED  4" GATE VALVE AND VALVE BOX  6" GATE VALVE AND VALVE BOX  10" GATE VALVE AND VALVE BOX	EACH  FT  FT  FT  FT  FT  FT  FT  EACH  EACH  EACH	11 87 279 3,593 718 46 2,219 145 11 54 1 12 18 5	75610  00521 01131 01721 02321 05301  05401 05501 05600 07300 07700  07800 07900 08000	638 638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11 54 1			23	46	87 279 3,593 718 447 82 11 54 1							
8, 12 8, 12 8, 12 8, 12 8, 12	WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN 5" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN 8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN 10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN 10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN 10" POLYETHYLENE SERVICE BRANCH, AS PER PLAN 10" POLYETHYLENE SERVICE BRANCH, AS PER PLAN 10" POLYETHYLENE SERVICE BRANCH, AS PER PLAN 10" STEEL PIPE ENCASEMENT, BORED OR JACKED 10" GATE VALVE AND VALVE BOX	EACH  FT  FT  FT  FT  FT  FT  FT  EACH  EACH  EACH  EACH  EACH	11 87 279 3,593 718 46 2,219 145 11 54 1	75610  00521 01131 01721 02321 05301  05401 05501 05600 07300 07700  07800 07900 08000 10201	638 638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11 54 1			23	46	87 279 3,593 718 447 82 11 54 1							
8, 12 8, 12 8, 12 8, 12 8, 12	WALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  6" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  2" POLYETHYLENE SERVICE BRANCH  16" STEEL PIPE ENCASEMENT, BORED OR JACKED  4" GATE VALVE AND VALVE BOX  6" GATE VALVE AND VALVE BOX  10" GATE VALVE AND VALVE BOX	EACH  FT  FT  FT  FT  FT  FT  FT  EACH  EACH  EACH  EACH  EACH	11 87 279 3,593 718 46 2,219 145 11 54 1 12 18 5	75610  00521 01131 01721 02321 05301  05401 05501 05600 07300 07700  07800 07900 08000	638 638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11 54 1			23	46	87 279 3,593 718 447 82 11 54 1							
8, 12 8, 12 8, 12 8, 12 8, 12	WALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  5" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  3/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  2" POLYETHYLENE SERVICE BRANCH  16" STEEL PIPE ENCASEMENT, BORED OR JACKED  4" GATE VALVE AND VALVE BOX  5" GATE VALVE AND VALVE BOX  8" GATE VALVE AND VALVE BOX  10" GATE VALVE AND VALVE BOX  5" FIRE HYDRANT, AS PER PLAN  FIRE HYDRANT, REMOVED	FT FT FT FT FT FT FT EACH EACH EACH EACH EACH EACH	11 87 279 3,593 718 46 2,219 145 11 54 1 12 18 5 10 6	75610  00521 01131 01721 02321 05301  05401 05501 05600 07300 07700  07800 07900 08000 10201 10480	638 638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11 54 1 12 18 5 10 6			23 11	46 1,772 63	87 279 3,593 718 447 82 11 54 1 12 18 5							
8, 12 8, 12 8, 12 8, 12 8, 12 126	WALVE BOX REMOVED  4" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  5" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  3/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  2" POLYETHYLENE SERVICE BRANCH  16" STEEL PIPE ENCASEMENT, BORED OR JACKED  4" GATE VALVE AND VALVE BOX  5" GATE VALVE AND VALVE BOX  8" GATE VALVE AND VALVE BOX  5" GATE VALVE AND VALVE BOX  5" FIRE HYDRANT, AS PER PLAN  FIRE HYDRANT, AS PER PLAN  FIRE HYDRANT REMOVED	EACH  FT FT FT FT FT FT FT EACH EACH EACH EACH EACH EACH EACH EACH	11 87 279 3,593 718 46 2,219 145 11 54 1 12 18 5	75610  00521 01131 01721 02321 05301  05401 05501 05600 07300 07700  07800 07900 08000 10201 10480  11201	638 638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11 54 1			23 11	46	87 279 3,593 718 447 82 11 54 1							
8, 12 8, 12 8, 12 8, 12 8, 12 126	WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  "WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  "WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  "WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  3/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  16" STEEL PIPE ENCASEMENT, BORED OR JACKED  4" GATE VALVE AND VALVE BOX  "GATE VALVE AND VALVE BOX  "GATE VALVE AND VALVE BOX  "GATE VALVE AND VALVE BOX  FIRE HYDRANT, AS PER PLAN  FIRE HYDRANT REMOVED  METER, SETTING, STOP AND CHAMBER, AS PER PLAN  CUT AND PLUG EXISTING 4" WATER LINE, CITY OFVAN WERT	EACH  FT  FT  FT  FT  FT  FT  FT  FT  EACH	11 87 279 3,593 718 46 2,219 145 11 54 1 12 18 5 10 6	75610  00521 01131 01721 02321 05301  05401 05501 05600 07300 07700  07800 07900 08000 10201 10480  11201 63820876	638 638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11 54 1 12 18 5 10 6			23 11	46 1,772 63	87 279 3,593 718 447 82 11 54 1 12 18 5							
8, 12 8, 12 8, 12 8, 12 8, 12 126 8, 12 127	WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  "WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  "WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  "WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  10" WATER MAIN POLYVINYL CHLORIDE PIPE AND FITTINGS, AWWA C900, DR18, AS PER PLAN  8/4" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  1-1/2" POLYETHYLENE SERVICE BRANCH, AS PER PLAN  2" POLYETHYLENE SERVICE BRANCH  16" STEEL PIPE ENCASEMENT, BORED OR JACKED  4" GATE VALVE AND VALVE BOX  5" GATE VALVE AND VALVE BOX  5" GATE VALVE AND VALVE BOX  5" GATE VALVE AND VALVE BOX  "FIRE HYDRANT, AS PER PLAN  FIRE HYDRANT REMOVED  METER, SETTING, STOP AND CHAMBER, AS PER PLAN  CUT AND PLUG EXISTING 6" WATER LINE, CITY OF VAN WERT	EACH  FT  FT  FT  FT  FT  FT  FT  FT  EACH	11 87 279 3,593 718 46 2,219 145 11 54 1 12 18 5 10 6	75610  00521 01131 01721 02321 05301  05401 05501 05600 07300 07700  07800 07900 08000 10201 10480  11201 63820876 63820878	638 638 638 638 638 638 638 638 638 638		11 87 279 3,593 718 46 2,219 145 11 54 1 12 18 5 10 6			23 11	46 1,772 63	87 279 3,593 718 447 82 11 54 1 12 18 5							
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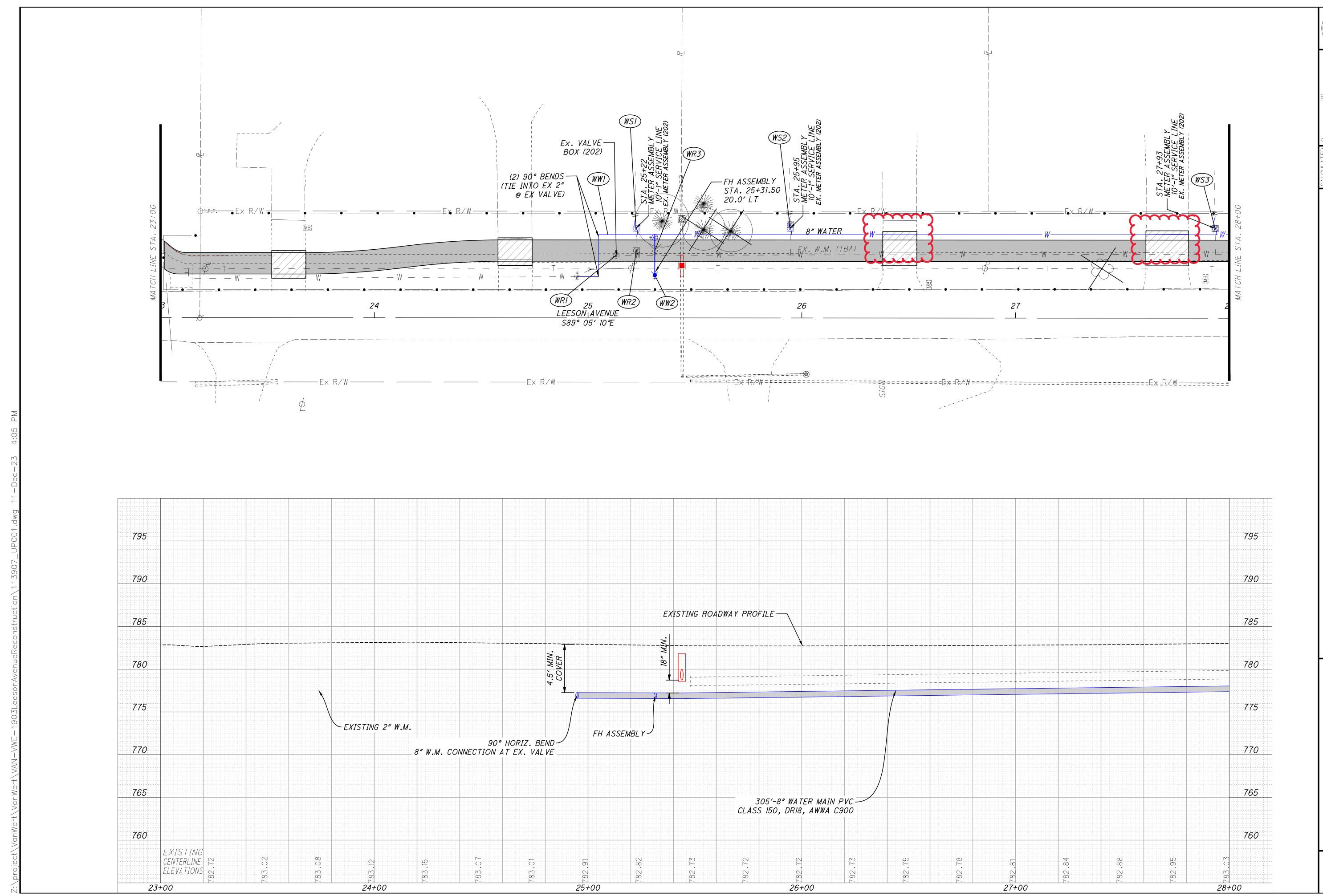
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					A	ML		PA	PA			SUB		▼ A	ON-7	ST,			AS URF4	AS INTE YPE	, ₉			
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DW1	25	23+60.00	LT	RES.	16.00	16.00	208	SY	23	FI	CY	23		CY	GAL	<i>CY</i> 3.85			CY	CY	SY 23.11			1
DW2	25	24+65.85 26+45.80	LT	RES.	16.00	16.00	208	~~~	23	~~~	~~~	23	~~~	~~~	~~~	3.85 4.74	~~~	~~~	~~~	~~~	23.11 28.44			]
DW4	25	27+71.00	LT	RES.	16.00 20.00	16.00 20.00	256 328		36			36				6.07					36.44			-
DW5	26	28+83.90	LT	RES.	20.00	19.00	598	66				66				11.07					66.44			1
DW6 DW7	26	29+95.20 30+81.60	LT LT	RES. RES.	16.00 18.00	16.00 18.00	288 489	33	32 13			32 54				5.33 9.06					32.00 54.33			-
DW8	26	31+40.10	<u>LT</u>	RES.	20.00	20.00	320	سس	36	uu	uu	36	uu	uu	uu	5.93	uu	····	uu	m	35.56			ြ ဟု
DW9 DW10	26	32+43.50 35+58.30	LT	RES. RES.	20.00 18.00	20.00 18.00	397 313		44 28			35				7.35 5.80					44.11 34.78			┨
DW11	27	36+83.10	RT	RES.	10.00	10.00	193		30	47	,	21		4.00		3.57					21.44			] <u>Z</u>
DW12 DW13	27 27-28	36+98.40 38+02.00	LT RT	RES.	18.00 15.00	18.00 15.00	410 287		18	17	15	32		1.90 3.14		6.19 2.96					37.11 17.78			} '
DW14	28	38+69.30	LT	RES.	12.00	10.26	242		13	17.5	1	27		4.00		4.48					26.89			] >
DW15 DW16	28 28	39+03.70 39+42.70	RT RT	RES.	10.00 18.00	10.00 18.00	191 209		36		6	21		1.98		2.06 3.87					12.33 23.22			A
DW17	28	40+21.20	LT	RES.	12.00	12.00	225		17			25				4.17					25.00			Ĵ₽
DW18 DW19	28 28	40+66.00 41+54.00	RT RT	RES.	20.00 10.00	20.00 10.00	313 175		50 14	12	4	35 19		1.60		5.80 2.06					34.78 12.33			1 =
DW20	28	42+64.90	RT	RES.	16.00	16.00	270		16	9	7	30		2.44		3.17					19.00			
DW21 DW22	29 29	44+10.90 44+20.50	LT RT	RES.	12.00 22.00	12.00 22.00	232 262		15		1 13	26 29		0.54		4.30 4.28	+				25.78 29.11			1 5
DW23	29	44+74.10	LT	RES.	10.00	7.67	246		14		2	27		0.99		3.81					22.89			S
DW24 DW25	29 29	44+96.30 45+00.30	LT RT	RES.	17.00 24.00	17.00 23.50	366 354		21		3 14	39		1.23 2.57		6.02 4.63					36.11 27.78			-
DW26	29	45+62.70	LT	RES.	12.00	12.00	258		5	23	5	29		0.65		4.30					28.67			1
<i>DW27</i> <i>DW28</i>	29 29	47+33.80 47+36.10	LT RT	RES.	10.00 14.00	10.00 12.67	220 228		22 16		4	24 25		1.90		4.07 2.80					24.44 16.78			-
DW29	29	47+87.30	RT	RES.	10.00	8.80	140		12		2	16		0.72		2.06					12.33			1
DW30 DW31	29-30 30	48+00.60 48+37.30	LT RT	RES. RES.	14.00 21.00	14.00 21.80	272 134	3	18 11		1	30 15		0.32 0.57	0.23	4.80 2.06			0.18	0.11	28.78 12.33			-
DW32	30	48+76.60	LT	RES.	10.00	8.70	493		44			55				9.13					54.78			1
DW33 DW34	30 30	50+98.30 51+76.00	RT RT	RES. RES.	20.00 8.00	17.25 8.00	241 99		27		2	11				4.46 1.83					26.78 11.00			-
DW35 DW36	30 30	52+43.10 52+45.00	RT	RES. RES.	16.00 12.00	16.00 12.00	222 280		21 26	Q	4	25		1.26		3.17 5.19					19.00 31.11	6		1
DW37	31	53+19.30	LT	RES.	10.00	10.00	218		20	0	5	24				4.04					24.22	0		_
<i>DW</i> 38 <i>DW</i> 39	31 31	53+65.20 54+40.20	RT RT	RES. RES.	22.00 10.00	22.00 10.00	409 197		47 13		5	45 22		2.15		7.57 2.06					45.44 12.33			-
DW40	31	54+50.60	LT	RES.	17.00	17.00	319		2		6	35		2.10		5.91					35.44			
DW41 DW42	31 31	54+70.50 55+09.80	LT RT	RES.	10.00 12.00	10.00 10.62	217 196		19 14		4	24 22		1.60		4.02 2.43					24.11 14.56			<b>∮</b> ш
DW43	31	55+85.40	RT	RES.	10.00	10.00	147		13		3	16		0.89		2.06					12.33			]
DW44 DW45	31 31	56+69.50 57+11.20	RT RT	RES.	10.00 20.00	7.62 20.00	121 336		15 15	15	10	13 37		3.11		2.24 3.91					13.44 23.44			<b>│</b> [∐
DW46	31	57+23.60	LT	RES.	14.00	14.00	294		21		2	33		0.69		5.44					29.56			]
DW47 DW48	31-32 32	57+94.70 58+41.60	LT RT	RES. RES.	14.00 10.00	14.00 7.96	287 151		21 11		2	32 17		0.57 1.01		5.31 2.80					29.44 12.33			Z
DW49	32	59+00.70	LT	RES.	20.00	20.00	355		32		2	39		7.01		6.78					40.67			
DW50 DW51	32 32	59+28.80 59+32.45	LT RT	RES. RES.	18.00 42.00	18.00 42.00	434 514	21	14 45		2	48 57		1.14	0.24	7.87 8.67			0.19	1.33	47.22 52.00			
DW52	32	60+58.20 61+58.00	RT	RES.	10.00	10.00	220		11	17	4	24		2.72		4.07					12.33			ļ ∓
DW53 DW54	32 32	62+29.00	LT	RES.	14.00 10.00	12.97 10.00	247 209		21 19	10	3	27		2.40		2.80 3.87					16.78 23.22			Z
DW55 DW56	32 32-33	62+77.20 63+03.40		RES. RES.	10.00 22.00	10.00 22.00	209 253	43	21			23 28		1.63	0.66	3.87 3.46			0.51	0.31	23.22 20.78			<b>∤ &gt;</b>
DW57	33	64+64.65 65+33.90	LT	RES.	19.00	23.81	311	15	8	15 16	3	35		90 90 =	cre cq. = -	5.76					34.56	3		1
DW58 DW59	33 33	65+91.10		RES.	10.00 15.00	10.00 29.39	169 393		18 21	16	8	19 44		4.17		3.13 4.13					18.78 24.78			$\frac{1}{100}$
TOTALS (	CARRIED TO	GENERAL SUMMA	NRY					181	1139	168	151	1793		44	1	270			1	2	1607	9		1 \166



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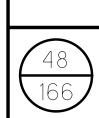
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**VAN-LEESON AVENUE** 





WATER WORKS - PLAN AND PROFILE - LEESON AVENUE

VAN-LEESON AVENUE