CONSTRUCTION DRAWINGS

WESTMINSTER SEWER IMPROVEMENT AREA SANITARY SEWER COLLECTION SYSTEM

AUGLAIZE TOWNSHIP, ALLEN COUNTY, OHIO

APRIL, 2009

CONTRACT E

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CONVENTIONAL SIGNS

CENTER/BASE LINE	
PROPERTY LINE	
WATER LINE	
GAS LINE	
OIL LINE	
LOT LINE	
PROPOSED SANITARY SEWER	
EXISTING SANITARY SEWER	
PROPOSED FORCE MAIN	F M
PROPOSED MANHOLE	●
EXISTING MANHOLE	○
EXISTING STORM SEWER	
CATCH BASIN/YARD DRAIN	□
FIRE HYDRANT	
GAS VALVE	⋈
GAS METER	□G
WATER VALVE	⋈WV
WATER METER	○WM
UNDERGROUND TELEPHONE	UGT
UNDERGROUND ELECTRIC	UGE
UNDERGROUND TELEVISION	UGTV
PERMANENT EASEMENT	
TEMPORARY EASEMENT	
GRANULAR BACKFILL	G.B.
POLE	
MAIL BOX	□MB
ASPHALT DRIVE	Ⓐ
CONCRETE DRIVE	Ⓒ
STONE DRIVE	Ⓢ
SHEET NUMBER	XX

VICINITY MAP

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1–800–362–2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON–MEMBERS
MUST BE CALLED DIRECTLY

WE, THE UNDERSIGNED, HEREBY APPROVE AND ACCEPT THESE DRAWINGS AND THE SPECIFICATIONS FOR THIS PROJECT.

ALLEN COUNTY SANITARY ENGINEER

_____ DATE 6/21/10

OHIO ENVIRONMENTAL PROTECTION AGENCY

By Letter DATE 2/9/2010

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THIS SANITARY SEWER SYSTEM ARE PROHIBITED.

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWN STREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES OFF SANITARY LINE.

AS–BUILT DWGS
MAY 07, 2019
○ MANHOLE
× LATERAL

STATE OF OHIO
JACK R. HARTLEY
E–53822
REGISTERED
JUNE 24, 2010

CALCULATED BWA
CHECKED JRM

KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ELECTRICAL ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

TITLE SHEET

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

C–902

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SHEET LAYOUT

GENERAL NOTES

UTILITIES: THE ENGINEER CONTACTED OHIO UTILITIES PROTECTION SERVICE (OUPS) THE LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES IN THE WESTMINSTER SEWER IMPROVEMENT AREA, SANITARY SEWER COLLECTION SYSTEM. THE (OUPS) REFERENCE NUMBERS FOR THE ABOVE PROJECT ARE AS FOLLOWS:

BELLEFONTAINE ROAD (S.R.117)	A-829-400-997	OCTOBER 20, 2008
McPHERON ROAD	A-835-100-540	DECEMBER 16,2008
JOHNSTON ROAD	A-835-400-665	DECEMBER 19,2008
CAREY STREET	A-836-600-139	DECEMBER 31,2008
FAULKNER ROAD	A-836-600-148	DECEMBER 31,2008
WESTMINSTER STREET	A-836-600-152	DECEMBER 31,2008
KATRINA STREET	A-836-600-157	DECEMBER 31,2008
CARDINAL DRIVE	A-836-600-165	DECEMBER 31,2008

THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 800-362-2764 AT LEAST TWO WORKING DAYS PRIOR TO PLANNED WORK.

THE FOLLOWING UTILITIES SERVE THE AREA WITHIN THE WESTMINSTER SEWER IMPROVEMENT AREA, SANITARY SEWER COLLECTION SYSTEM AND HAVE FACILITIES WHICH MAY INTERFERE WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE UTILITIES BEFORE THE WORK BEGINS AND WORK WITH THEM WHEN WORK IS ADJACENT TO THEIR FACILITIES. ANY AND ALL WORK REQUIRED FOR ADJUSTMENT OF PRIVATE UTILITIES SHALL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS.

SAN. SEWERS	ALLEN COUNTY SANITARY ENGINEER	419-228-3700
ELECTRIC	AMERICAN ELECTRIC POWER	800-672-2231
	MID OHIO ENERGY	888-382-6732
	ODOT	419-222-9055
PHONE	CENTURYLINK	800-407-5411
	AT&T	419-245-5588
	QUEST	419-872-8534
GAS	DOMINION EAST OHIO GAS	419-227-5416
CABLE VISION	TIME WARNER CABLE	419-331-2288

GAS LINE LOCATIONS SHOWN WERE LOCATED FROM FIELD MARKINGS AND SUPPLEMENTED WITH INFORMATION FROM MAPS SUPPLIED BY DOMINION.

WORK NEAR UTILITY LINES: SPECIAL CARE IS TO BE USED WHEN EXCAVATING NEAR UTILITY LINES. SHORING MAY BE REQUIRED TO PREVENT DAMAGE TO THE LINES.

PERMITS: THE COUNTY WILL PROVIDE THE NECESSARY PERMISSION TO CONSTRUCT THE SEWERS ON COUNTY AND TOWNSHIP RIGHTS-OF-WAY. THE CONTRACTOR MUST OBTAIN PERMITS FROM THE COUNTY ENGINEER'S OFFICE AS WORK PROGRESSES FOR THE INDIVIDUAL LOCATIONS.

SURVEYS: SEWERS WILL BE STAKED FOR LASER CONSTRUCTION. MANHOLES WILL BE STAKED, AND ONE GRADE STAKE BETWEEN MANHOLES WILL BE PROVIDED FOR CHECKING GRADE. ADDITIONAL GRADE STAKES MAY BE PROVIDED AT CONTRACTOR'S EXPENSE.

MAINTAINING LOCAL TRAFFIC: THE WORK SHALL BE SCHEDULED SO THAT LOCAL TRAFFIC CAN ENTER AND EXIT THE WORK AREA WITH LITTLE INCONVENIENCE. OTHER PROVISIONS FOR MAINTAINING TRAFFIC ARE SET FORTH IN THE SPECIFICATIONS.

GRANULAR BACKFILL: GRANULAR BACKFILL OVER PIPE LOCATED UNDER PAVEMENT, DRIVEWAYS, BERMS AND PARKING AREAS SHALL EXTEND FROM PIPE BEDDING UP TO THE SURFACE. WHEN PIPE IS PARALLEL WITH AND 4 FEET OR MORE OUTSIDE THE EDGE OF PAVEMENT, GRANULAR BACKFILL SHALL BE PROVIDED UP TO A POINT X' BELOW THE SURFACE WHERE X = DISTANCE BETWEEN EDGE OF PAVEMENT AND CENTERLINE OF SEWER LESS 4 FEET. THE BALANCE OF THE TRENCH SHALL BE BACKFILLED WITH SELECT SOIL BACKFILL.

LATERALS: THE ACTUAL LOCATION FOR EACH SERVICE LATERAL WILL BE CONFIRMED AND STAKED IN THE FIELD PRIOR TO SEWER INSTALLATION. ALL LATERALS TO HAVE A MINIMUM OF 6.5' COVER AT PROPERTY LINE WHERE POSSIBLE.

SEEDING AND MULCHING: QUANTITIES (ITEM 659) SHOWN ARE FOR RESEEDING DISTURBED AREAS ALONG THE PAVEMENT AND OTHER MOWABLE AREAS. DISTURBED AREAS THROUGH AGRICULTURAL AREAS AND OTHER OPEN AREAS SHALL BE SEEDED WITH A TEMPORARY SEED MIXTURE.

TREE AND/OR STUMP REMOVAL: COSTS TO REMOVE TREES, STUMPS AND BUSHES ARE TO BE INCLUDED IN THE PRICE UNDER ITEM 201 CLEARING AND GRUBBING. NO SEPARATE PAYMENT WILL BE MADE FOR TREE, STUMP OR BUSH REMOVAL. TREES, PLANTS AND SHRUBBERY NOT TO BE REMOVED SHALL BE CAREFULLY PROTECTED DURING THE PROGRESS OF THE WORK. IF TREES CAN BE SAVED BY MOVING THE SEWER LOCATION, THIS WILL BE DONE WHERE POSSIBLE.

TREE REMOVAL SHALL BE LIMITED TO THAT NECESSARY FOR CONSTRUCTION. TREE REMOVAL WILL BE COMPLETED BETWEEN THE DATES OF SEPTEMBER 15 TO APRIL 1. NO TREE REMOVAL WILL BE PERMITTED OUTSIDE OF STREET RIGHTS-OF-WAY OR PERMANENT EASEMENT LIMITS.

TREES WHICH ARE NOT REMOVED SHALL BE PROTECTED FROM DAMAGE WHEN REMOVING ADJACENT TREES. SOIL OR OTHER FILL MATERIAL SHALL NOT BE STORED NEXT TO OR WITHIN THE DRIP-LINE OF TREES.

"AS CONSTRUCTED DRAWINGS": THE CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL DEVIATIONS FROM THE DRAWINGS AND MAKE THIS INFORMATION AVAILABLE DURING WORKING HOURS. AT THE COMPLETION OF WORK, THE CONTRACTOR SHALL GIVE TO THE COUNTY A MARKED-UP SET OF DRAWINGS SHOWING ALL DEVIATIONS AND ALL SEWER CONNECTION LOCATIONS.

PRESSURE PIPE: PROVIDE PRESSURE PIPE CONFORMING TO ASTM D-2241SDR 21 WITH SCHEDULE 40 FITTINGS AT THE LOCATIONS NOTED.

SPECIAL NOTES

COSTS TO REMOVE, STORE AND RE-ERRECT ROAD AND ADDRESS SIGNS AND MAILBOXES THAT MAY INTERFERE WITH CONSTRUCTION SHALL BE INCLUDED IN THE PRICE PER FOOT UNDER ITEM 901.

NO CONSTRUCTION TRAFFIC, HEAVY TRUCKS OR EQUIPMENT SHALL BE ALLOWED ON CARDINAL DRIVE.

MANHOLE TOP ELEVATIONS SHOWN ARE FOR INFORMATION ONLY. TOP TO BE RAISED OR LOWERED TO FIT FIELD CONDITIONS WITH CHIMNEY SEAL SIZED ACCORDINGLY. PAY QUANTITIES TO BE BASED ON FINAL MEASUREMENTS.

WORK IS TO BEGIN AT THE PUMP STATION, THEN PROCEED EAST AND WEST ON MCPHERON ROAD, THEN NORTH AND SOUTH ON BELLEFONTAINE ROAD BEFORE STARTING EAST ALONG KATRINA ROAD. CONTRACTOR TO PROVIDE A SCHEDULE OF WORK TO THE OWNER PRIOR TO STARING WORK.

CALCULATED JRH
CHECKED JRM

KOHLI & KALIHER ASSOCIATES, INC.
ENGINEERS & SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

GENERAL NOTES
SHEET LAYOUT

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

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ITEM NO.	DESCRIPTION	QUANTITY	UNIT	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	ITEM NO.
201	CLEARING AND GRUBBING INCLUDING	1	LUMP																									201
	TREE REMOVED 18" SIZE	1	EACH						1																			
	TREE REMOVED 48" SIZE	2	EACH						2																			
	STUMP REMOVED 18" SIZE	17	EACH	1						1			1		5	2	1	4	2									
	STUMP REMOVED 30" SIZE	8	EACH					2	2	1		1							2									
	STUMP REMOVED 48" SIZE	2	EACH						2																			
202	FENCE REMOVED FOR REUSE AND REINSTALLED	72	LF															72										202
202	FENCE REMOVED FOR REUSE TYPE CL AND REINSTALLED	135	LF									135																202
602	CONCRETE MASONRY	5	CY																									602
603	REPLACEMENT OF PIPE TYPE A <=12"	700	LF																									603
603	REPLACEMENT OF PIPE TYPE B <=12"	700	LF																									603
603	REPLACEMENT OF PIPE TYPE A > 12"	200	LF																									603
603	REPLACEMENT OF PIPE TYPE B > 12"	100	LF																									603
603	12" CMP DRIVE PIPE REPLACED	100	LF																									603
604	CATCH BASIN REPLACED	6	EACH	1		1	1									1					2							604
614	MAINTAINING TRAFFIC	1	LUMP																									614
659	SEEDING AND MULCHING	32702	SY	1224	1085	720		280	3557	2400	576	1550	1822	427	1501	1968	3536	2884	3004	1604	462	350	224	242	606	180	2500	659
670	EROSION CONTROL MAT TYPE E	77	SY	41					36																			670
901	6" SANITARY SEWER ASTM D-3034 SDR 35	1852	LF	80	65	363	150	48	36	21	32	25	52	20	14	80	170	31	61	45	88	34	203	32	194	8		901
901	6" SANITARY SEWER ASTM D-2241 SDR 21	380	LF		99		139			34			25		35						12					36		901
901	8" SANITARY SEWER ASTM D-3034 SDR 35	11404	LF	838	213	640	467	706	810	298	324	848	551	174	189	578	990	748	679	504	543	295	303	181	345	130	50	901
901	8" SANITARY SEWER ASTM D-2241 SDR 21	2283	LF	78	362		184			525			350	5	388						116					275		901
902	SANITARY MANHOLE TYPE A	515.9	VF	75.2	8.2		6.6	28.9	45.5	25.7	27.7	18.0	28.4	35.2	17.3	17.5	30.9	23.1	22.6	21.2	34.0	8.2	16.9		8.3	16.5		902
902	SANITARY MANHOLE TYPE B	96.90	VF	49.5	16.2	29.5																						902
902	SANITARY MANHOLE TYPE C	3	EACH				1					1												1				902
902	CHIMNEY SEAL, MANHOLE DISH	55	EACH	8	2	2	2	2	4	2	3	3	2	2	2	2	3	2	2	2	3	1	2	1	1	2		902
902	CLEAN OUT WITH COVER	159	EACH	10	7	12	11	10	3	8	2	9	13	3	3	6	12	5	6	5	12	6	4	1	6	5		902
904	INCREASE EARTH	100	CY																									904
906	STONE FOUNDATION	100	CY																									906
909	6" LATERAL INSTALLED BY HDD METHODS WITH HDPE PIPE	2525	LF	185				234	77	230		220	280	60		68	194	208	139	140	293	197						909
909	STEEL CASING BORED IN PLACE	60	LF		60																							909
912	GRANULAR BACKFILL	9120	CY	918	504	1055	774	999	79	511	289	207	597	160	190	206	192	61	68		856	307	386	108	334	266		912
915	8" X 6" SEWER CONNECTION ASTM D-3034 SDR 35	135	EACH	10	3	12	6	10	3	6	2	9	10	3	1	6	12	5	6	5	11	6	4	1	6	2		915
915	8" X 6" SEWER CONNECTION ASTM D-2241 SDR 21	24	EACH		4		5			2			3		2						1					3		915
915	6" SANITARY RISER ASTM D-3034 SDR 35	322	VF	65		64	17	52		2	2	6	30	9		14	18	10	8	6	9	10						915
915	6" SANITARY RISER ASTM D-2241 SDR 21	51	VF		21					18			12															915
917	ASPHALT DRIVE REPAIR	205	SY	84						16		12		13	7	44	21	8										917
917	CONCRETE DRIVE REPAIR	134	SY	18					17				35	16	14		20											917
917	CONCRETE SIDEWALK REPAIR	726	SF			86	64	64	32												384		96					917
917	STONE DRIVE REPAIR	1132	SY	43	80	36	58	99	27	61	24	47	68	14		15	22	10	21		37		224	10	35	201		917
917	ASPHALT ROADWAY TRENCH REPAIR	1365	SY		63	47	283	118		59		18			12						480	168	26		70	8		917
2000	WESTMINSTER PUMP STATION	1	EACH																								1	2000
2030	COMMINUTOR WITH STRUCTURE	1	EACH																								1	2030
3000	PRECONSTRUCTION AUDIO-VIDEO DOCUMENTATION	1	EACH																									3000
	PAVEMENT REPAIR AND RESURFACING																											
917	NO. 1&2 FOR GRANULAR STABILIZATION	120	CY																									917
917	SUBGRADE COMPACTION	730	SY																									917
917	AGGREGATE BASE	185	CY																									917
917	ASPHALT CONCRETE BASE	81	CY																									917
917	TACK COAT	732	GAL																									917
917	ASPHALT CONCRETE SURFACE	305	CY																									917
	SWP3 - EROSION CONTROL																											
207	INLET PROTECTION USING SEDIGUARD OR SIMILAR	20	EACH																									207
207	INLET PROTECTION - FILTER FABRIC	240	LF																									207
207	FILTER FABRIC DITCH CHECK	160	LF																									207
207	BALE FILTER DIKE	360	LF																									207
207	SEDIMENT REMOVAL	1	CY																									207
207	TEMPORARY SEEDING, SEDIMENT & EROSION CONTROL	10500	SY																									207
207	INSPECTIONS AND MAINTENANCE OF BMP's	1	LS																									207
	ALLOWANCE FOR REPLACEMENT OF FAILED WELLS	8	EACH																									

QUANTITIES ARE MEASURED MANHOLE TO MANHOLE

CALCULATED JRH
CHECKED JRM

KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ENVIRONMENTAL CONSULTANTS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

QUANTITIES

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
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EROSION AND SEDIMENTATION CONTROL

1. EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSTALLED TO NATURAL RESOURCES CONSERVATION SERVICE OR EQUIVALENT STANDARDS AND SPECIFICATIONS FOR PARTICULAR TECHNIQUES. THE PRACTICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

2. CLEARING AND GRUBBING SHALL NOT COMMENCE UNTIL THE CONTRACTOR IS PREPARED TO START CONSTRUCTION.

3. EXISTING TOPSOIL THAT IS TO BE REUSED SHALL BE STOCKPILED AND REPLACED UPON FINAL GRADING. STOCKPILED TOPSOIL SHALL BE PROTECTED WITH SILT BARRIERS AND TEMPORARY SEEDING OR A COVERING SUCH AS ANCHORED STRAW MULCH.

4. EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPHILL SIDE OF TRENCHES.

5. ONLY THOSE TREES, SHRUBS, AND GRASSES THAT MUST BE REMOVED FOR CONSTRUCTION MAY BE REMOVED; PROTECT THE REST TO PRESERVE THEIR AESTHETIC, HABITAT, AND EROSION CONTROL VALUES.

6. DISTURBED LAND EXPOSED LONGER THAN 15 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING AND MULCHING OR MULCHING ALONE.

7. AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZE EACH DISTURBED AREA WITH PERENNIAL VEGETATION. IF FINAL GRADING AND SEEDING WILL NOT OCCUR WITHIN 30 DAYS, ALL DISTURBED AREAS SHALL BE TEMPORARILY SEEDED AND/OR MULCHED IMMEDIATELY.

8. FINAL GRADING SHALL BE CONSISTENT WITH PRE–CONSTRUCTION TOPOGRAPHY TO MAINTAIN DRAINAGE AND AESTHETICS.

9. NO MORE THAN 200 FEET OF TRENCH SHALL BE OPEN AT ANY TIME. MINIMIZE THE AREA DISTURBED FOR TRENCH OPENING, LAYING OF PIPE, AND BACKFILLING.

10. TRENCHES SHALL BE BACKFILLED IMMEDIATELY; COMPACT AND SEED AND/OR MULCH TRENCHES IN UNPAVED AREAS WITHIN 15 DAYS AFTER THEY HAVE BEEN OPENED.

11. UNPAVED AREAS SHALL BE WET DOWN AS NECESSARY USING WATER OR OTHER ENVIRONMENTALLY BENIGN SUBSTANCE DURING CONSTRUCTION TO MINIMIZE DUST.

12. IF WORK IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROLS IN GOOD OPERATING CONDITION DURING THE SUSPENSION OF THE WORK. ALSO, WHEN SEASONAL CONDITIONS PERMIT AND THE SUSPENSION OF WORK IS EXPECTED TO EXCEED A PERIOD OF ONE MONTH, THE CONTRACTOR SHALL PLACE TOPSOIL, FINE GRADE, SEED, FERTILIZE, AND MULCH ALL DISTURBED AREAS LEFT EXPOSED WHEN WORK IS STOPPED.

13. MATERIAL EXCAVATED FROM BORING PITS (FOR JACK AND BORE LOCATIONS) SHALL BE SURROUNDED WITH SILT BARRIERS AT SUFFICIENT DISTANCE TO ENSURE THEIR INTEGRITY AND EFFECTIVENESS.

14. CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL, AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS, DRIVES, OR WALKS BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.

15. ALL MATERIALS TO BE DISPOSED OF OFF–SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS. EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED.

FLOODPLAINS / WETLANDS

1. WHEN PIPELINE CONSTRUCTION TAKES PLACE IN FLOODPLAINS AND WETLANDS, THE CONTRACTOR SHALL PLACE BULKHEADS OF CLAY SOIL ACROSS THE TRENCH AT 100 FOOT INTERVALS TO RESIST THE MOVEMENT OF GROUNDWATER THROUGH GRANULAR MATERIAL. SUCH BULKHEADS SHALL BE CAREFULLY COMPACTED AND SHALL EXTEND APPROXIMATELY 3 FEET IN A DIRECTION PARALLEL TO THE PIPE AND SHALL EXTEND FROM THE BOTTOM OF THE TRENCH TO A HEIGHT OF 6 INCHES ABOVE THE GROUNDWATER TABLE OR THE TOP OF THE GRANULAR FILL MATERIAL, WHICHEVER IS HIGHER.

TRAFFIC CONTROL

1. AT LEAST ONE LANE OF TRAFFIC SHALL BE MAINTAINED ALONG THE TRAVEL ROUTE TO THE CONSTRUCTION SITE.

2. ACCESS SHALL BE MAINTAINED FOR EMERGENCY VEHICLES AT ALL TIMES.

3. NO TRENCH SHALL BE LEFT OPEN AT THE END OF THE WORK DAY.

4. ANY CONSTRUCTION EQUIPMENT OR EXCAVATIONS NEAR ROADS SHALL BE MARKED WITH LIGHTS OR REFLECTORS.

5. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES, WARNING SIGNS, DANGER SIGNALS, FLAGGERS, WATCHERS, AND ALL OTHER APPROPRIATE PRECAUTIONS NECESSARY TO THE PROTECTION OF THE WORK AND FOR SAFETY.

6. PRIOR TO CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE, OR BOULEVARD, THE CONTRACTOR SHALL HAVE CONSENT FROM LOCAL OFFICIALS AND THE ENGINEER.

AIR POLLUTION / NOISE CONTROL

1. CONSTRUCTION SHALL BE LIMITED TO DAYTIME HOURS.

2. CONSTRUCTION EQUIPMENT SHALL BE PROVIDED WITH INTAKE SILENCERS AND MUFFLERS, AS REQUIRED BY SAFETY STANDARDS.

3. ALL CONSTRUCTION VEHICLES SHALL BE EQUIPPED WITH PROPER EMISSIONS CONTROL EQUIPMENT.

4. ALL EQUIPMENT AND MACHINERY SHALL BE MAINTAINED TO MINIMIZE EXHAUST EMISSIONS AND NOISE.

TREES / VEGETATION PROTECTION

1. TREE REMOVAL SHALL BE LIMITED TO THAT NECESSARY FOR CONSTRUCTION AND SHALL BE LIMITED TO THE PERMANENT EASEMENT UNLESS EXPLICITLY PERMITTED BY THE ENGINEER.

2. NO TREE REMOVAL SHALL BE PERMITTED OUTSIDE THE TEMPORARY EASEMENT WITHOUT PERMISSION OF THE ENGINEER.

3. TREES WHICH ARE NOT TO BE REMOVED SHALL BE PROTECTED FROM INJURY BY TREES BEING FELLED.

4. PRIOR TO CLEARING, THE CONTRACTOR AND ENGINEER SHALL WALK THE ACQUIRED EASEMENTS AND DESIGNATE THE TREES THAT ARE TO BE SAVED. TREES TO BE SAVED SHALL BE CLEARLY MARKED BY PAINT WITH THE LETTER "S". TREES TO BE PROTECTED BY AN APPROPRIATE BARRIER SHALL BE MARKED WITH A "S" ENCLOSED ON A CIRCLE.

5. SOIL AND OTHER MATERIAL SHALL NOT BE STORED NEXT TO OR WITHIN THE DRIP–LINE OF TREES.

6. PRESERVATION OF LANDSCAPING SHOULD TAKE PRECEDENCE OVER REMOVAL. IF REMOVAL OR DAMAGE IS UNAVOIDABLE, EXISTING VEGETATION SHALL BE REPAIRED OR REPLACED "IN–KIND" UNLESS THE LAND OWNER SPECIFIES OTHERWISE.

7. IF TREES/SHRUBS CANNOT BE REPLACED IN THE SAME LOCATION DUE TO INSTALLATION OF THE WATER OR SEWER LINES, RELOCATION OF THE TREES/SHRUBS SHALL BE CONSIDERED.

8. THE CONTRACTOR SHALL REPAIR ALL INJURIES TO BARK, TRUNKS, LIMBS, AND ROOTS OF REMAINING VEGETATION BY PROPERLY DRESSING, CUTTING, AND BRACING, USING ONLY APPROVED TREE SURGERY METHODS, TOOLS, AND MATERIALS. WHEN ROOTS ARE DAMAGED DURING EXCAVATION, THE ABOVE–GROUND PORTION OF THE TREE SHALL BE PRUNED TO COMPENSATE.

9. SELECTIVE PRUNING OF TREE LIMBS PRIOR TO CONSTRUCTION SHALL ONLY BE DONE WITHIN ESTABLISHED EASEMENTS WHERE REMOVAL IS NECESSARY FOR OPERATION OF EQUIPMENT.

10. LIMIT THE USE OF RIP–RAP TO AREAS WHERE STREAM FLOW CONDITIONS PRECLUDE VEGETATIVE STABILIZATION.

DEWATERING

1. ALL DEWATERING FLOWS SHALL BE SETTLED IN SILTATION BASINS OR DIRECTED THROUGH FILTERING DEVICES BEFORE DISCHARGE TO STABILIZED SITES, SUCH AS STREAMS OR STORM SEWERS, NOT ONTO EXPOSED SOILS, STREAM BANKS, OR ANY OTHER SITE WHERE THE FLOW COULD CAUSE EROSION.

2. SILT FROM CONSTRUCTION SITES SHALL NOT BE PERMITTED TO ENTER STORM SEWERS. WHEN CONSTRUCTION OCCURS NEAR STORM SEWER INLETS, EROSION CONTROL MEASURES SUCH AS INLET FILTERS SHALL BE USED TO PREVENT SILT FROM ENTERING THE STORM SEWERS.

3. ALL WATER SHALL BE CONVEYED FROM THE CONSTRUCTION SITE IN A CLOSED CONDUIT. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

ARCHAEOLOGICAL / HISTORICAL RESOURCES

1. CONTRACTORS AND SUBCONTRACTORS ARE REQUIRED UNDER OHIO REVISED CODE SECTION 149.53 TO NOTIFY THE OHIO HISTORICAL SOCIETY AND THE OHIO HISTORIC SITE PRESERVATION BOARD OF ARCHAEOLOGICAL DISCOVERIES IN THE PROJECT AREA, AND TO COOPERATE WITH THOSE ENTITIES IN ARCHAEOLOGICAL AND HISTORIC SURVEYS AND SALVAGE EFFORTS.

CONTACT: OHIO HISTORIC PRESERVATION OFFICE
PHONE: 614–297–2470

PROHIBITED CONSTRUCTION ACTIVITIES

1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL OR TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDOR, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.

2. STOCKPILING MATERIALS OR STORING CONSTRUCTION EQUIPMENT AND VEHICLES ON PROPERTY NOT SPECIFIED ON THE PLANS BY THE ENGINEER FOR SUCH PURPOSES.

3. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.

4. PUMPING OF SEDIMENT–LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS; ALL SUCH WATER SHALL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.

5. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE, OR OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO ANY NATURAL OR MAN–MADE CHANNELS.

6. PERMANENT OR UNSPECIFIED ALTERATION OF THE FLOW LINE OF ANY STREAM.

7. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.

8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.

9. DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, DRILLING, BUFFING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL, PROFESSIONAL, QUASI–PUBLIC, OR PUBLIC PLACES OF HUMAN OCCUPATION.

10. RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHTS–OF–WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE ENGINEER.

11. OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 A.M. AND 5:00 P.M. OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS.

12. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE, OR BOULEVARD WITHOUT THE PRIOR CONSENT OF MUNICIPAL OFFICIALS AND THE ENGINEER, AND CLOSING CLEAR ACCESS:

– BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES;

– BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI–PUBLIC OR PUBLIC ESTABLISHMENT, OR RESIDENCE; OR

– BY VEHICLES TO DRIVEWAYS WITHOUT PROVIDING ALTERNATE ACCESS.

STRAW BALE FILTER DIKE

CONSTRUCT SEDIMENT FENCE ON LOW SIDE OF EXCAVATIONS AND SOIL STOCKPILES TO PREVENT SEDIMENT FROM BEING WASHED INTO THE DRAINAGE SYSTEM.

LOCATE POSTS DOWNSIDE OF FABRIC TO HELP SUPPORT FENCING.

FILTER FABRIC FENCE

INLET PROTECTION

THREE DIMENSIONAL NATURAL FIBER INLET PROTECTION DEVICE (SEDIGUARD BY EARTH SUPPORT SYSTEMS OR APPROVED EQUIVALENT)

CALCULATED JRH
CHECKED JRM

KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS & SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

GENERAL NOTES
ENVIRONMENTAL

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

I:\cp\Westminster\As Built 2019\Updated PP Sheets\02-04 GENERAL NOTES, QUANT.dwg, ENVIRO, 5/7/2019 1:43:54 PM

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
6600	138.0' E	MC2	_	_	_
6480	108.3' E	MC2			
6590	27.6' E	MC2			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP T-BAR SET(PNT#4581)
SOUTH EAST CORNER OF KATRINA AND BELLEFONTAINE ROAD
N378113.7459
E1557897.2980
EL 939.45

CP T-BAR SET(PNT#10284)
NORTH WEST CORNER OF McPHERON AND BELLEFONTAINE ROAD
N378172.0920
E1557709.7977
EL 938.04

CP T-BAR SET(PNT#10281)
SOUTH SIDE OF McPHERON ROAD ACROSS FROM HOUSE NUMBER 6427 DRIVEWAY
N378125.1330
E1556987.3203
EL 938.75

BM#12 ELEV. 939.17
TOP OF THE WESTERNMOST OF THREE RUSTY BOLTS, FOUND IN THE AUG-206-059 SIGN MOUNTED ON THE WEST END OF THE CULVERT HEADWALL ON THE SOUTH SIDE OF McPHERON ROAD, ABOUT 300 FEET WEST OF THE STOP SIGN AT BELLEFONTAINE ROAD.

BM#16 ELEV. 939.67
MAGNAIL SET IN THE EAST FACE OF THE UTLITY POLE ON THE SOUTHEAST CORNER OF BELLEFONTAINE ROAD AND KATRINA DRIVE. POLE IS TAGGED AS OHIO POWER CO. #825B3/8

N

SCALE IN FEET: 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 9+00 TO STA. 18+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

McPHERON ROAD

I:\cp\Westminster\As Built_2019\Updated PP Sheets\05 RCp01003.dwg, PP, 5/7/2019 1:47:36 PM

SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS					
ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
???	137.2' ENE	B2	_	_	_
3575 Bell.	207.4' ENE	B2			
3110 Kat.	237.8' ENE	B2			
6633 Kat.	320.8' ENE	B2			
6715 Kat.	6.0' NE	C1			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #4581 T-BAR SET SOUTH EAST CORNER OF KATRINA AND BELLEFONTAINE ROAD
N378113.7459
E1557897.2980
EL 939.45

CP #1210 IRON ROD FOUND AT THE INERSECTION OF CENTERLINE OF CAREY STREET PROJECTED TO THE NORTH R/W LINE OF KATRINA STREET.
N378293.0380
E1558161.2190
EL 941.83

CP #1354 T-BAR SET AT THE INTERSECTION OF NORTH EDGE OF PAVEMENT OF KATRINA STREET AND THE EAST EDGE OF PAVEMENT OF CARDINAL DRIVE.
N378434.5273
E1558477.0810
EL 947.32

BM #16
ELEV 939.67
MAGNAIL SET IN THE EAST FACE OF THE UTLITY POLE ON THE SOUTHEAST CORNER OF BELLEFONTAINE ROAD AND KATRINA DRIVE. POLE IS TAGGED AS OHIO POWER CO. #825B3/8

BM #17
ELEV 942.57
MAGNAIL SET IN THE SOUTH FACE OF THE UTLITY POLE THAT IS NORTH OF THE INTERSECTION OF KATRINA DRIVE AND CAREY STREET. POLE IS TAGGED AS OHIO POWER CO. #925B3/47 AND UNITED TELEPHONE COMPANY #058DH05/21

SCALE IN FEET 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ELECTRICAL ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 9+00 TO STA. 16+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

6
31

KATRINA STREET

C-902

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SCALES:
1" = 40' HOR
1" = 5' VER

KATRINA STREET
WESTMINSTER STREET
FAULKNER ROAD
CAREY STREET
50 FOOT WELL ISOLATION RADIUS
CONTROL POINT 1210
310 LF 8" SAN @ 0.40%
330 LF 8" SAN @ 0.40%
BM#20
MH #C1
MH #C2
MH #F3
MH #F3A
CP #1353
LATERAL
2"STEEL GAS MAIN
UNIMPROVED ALLEY (GRASS ONLY)
UNINTERRUPTED GRASS AREA
BLACKTOP ROADWAY
STONE ALLEY
STONE/GRASS ALLEY
BLACKTOP APRON
CONCRETE SIDEWALK
BRICK BLDG.
4 UGD.DROPS
BLOCK BUILDING
STONE PARKING LOT
6"PINE
2"TREE
15"TREE
24"TREE
12"TREE
36"TREE
30"TREE
8"TREE
42"TREE
27"TREE
10"TREE
6"CLAY
8"CLAY
4S VAULT
7S VAULT
STUMP
CISTERN
GAS IN
GAS SVC.
GME
SVC.LOC.INDEF.
GME REMOVED
FENCE
CHAIN LINK FENCE
WOOD FENCE
TIMBERS
TO CLAY
4S BUILT
6S BUILT
4S LINE
6S LINE
BRKTP.
BLACKTOP PARKING AREA
1-STORY HOUSE
2-STORY HOUSE
1-STORY BRICK RANCH-TYPE HOUSE
1-STORY HOUSE (PARTIAL LOG HOUSE)
1-STORY HOUSE W/BASEMENT
2-STORY HOUSE W/BASEMENT
LARGE OLD GARAGE W/ADD-ON
LARGE GARAGE
GARAGE
STONE
BLACKTOP DRIVEWAY
CONC.WALK
CONCRETE DRIVEWAY
SEPTIC
GRILL
OLM
CLEANOUT
CONC.PAD
CONC.PAD
OHANG PUMP
FENCE
WOOD FENCE
CHAIN LINK FENCE
TOWER
TURBINE
CONC.BENCH
CONC.BLOCK
BRICK
STONE
BLACKTOP
CONCRETE
GRASS
SEPTIC
CONC.PAD
CLEANOUT
TIMBERS
STONE
GARAGE
STONE
STONE
STON

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

BM #2
ELEV 947.28
MAG NAIL SET IN TOP OF CURB ON NORTH SIDE OF FAULKNER ROAD @ NE CORNER OF BELEFONTAINE ROAD & FAULKNER ROAD, 5.75' WEST OF STOP SIGN.

BM #3
ELEV 943.76
MAG NAIL SET ON NW SIDE OF TELEPHONE POLE 058DH09/6 ON SE CORNER OF CAREY STREET & FAULKNER ROAD.

CP #1356
N377556.1030
E1558176.1247
ELEV 946.81
MAG NAIL SET IN SIDEWALK AT THE NORTHWEST CORNER OF FAULKNER ROAD AND BELLEFONTAINE ROAD.

CP #1353
N377662.1816
E1558464.0297
ELEV 944.04
MAG NAIL SET IN THE SOUTH WEST QUADRANT OF THE INTERSECTION OF FAULKNER ROAD, AND CAREY STREET

CP #1352 & BM#4
N377852.5545
E1558773.1868
ELEV 943.46
MAG NAIL SET ON WEST WALL OF CATCH BASIN AT ABOUT THE CENTER OF THE WEST WALL OF THE CATCH BASIN ON THE NE COR. OF FAULKNER ROAD AND CARDINAL DRIVE

REV. 07-08-2011 BWA

FAULKNER ROAD

SCALE IN FEET: 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS
2244 Belaire Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 6+00 TO STA. 15+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

8
31

C-902

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SCALES:
1" = 40' HORE
1" = 5' VER

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
6825	54.5' E	F4	_	_	_
6830	133.1' E	F4			
6840	211.7' E	F4			
6845	236.4' E	F4			
6842	297.7' E	F4			
6868	312.8' E	F4			
???	103.3'	F5			
6900	193.1' E	F5			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

BM #5
ELEV 946.83
MAG NAIL SET ON SOUTH SIDE OF O.P. CO. #925D1/9 POWER POLE ON NORTH SIDE OF FAULKNER ROAD @ PC OF CURVE

CP #1288
N377814.5549
E1559570.9116
ELEV 944.71
T-BAR SET LOCATED EAST OF CONCRETE DRIVE LEADING TO 6925 FAULKNER ROAD.
LOCATED 25' EAST OF POWER POLE AND 4.4' NORTH OF CATCH BASIN

CP #1353
N377662.1816
E1558464.0297
ELEV 944.04
MAG NAIL SET IN THE SOUTH WEST QUADRANT OF THE INTERSECTION OF FAULKNER ROAD, AND CAREY STREET

CP #1352 & BM#4
N377852.5545
E1558773.1868
ELEV 943.46
MAG NAIL SET ON WEST WALL OF CATCH BASIN AT ABOUT THE CENTER OF THE WEST WALL OF THE CATCH BASIN ON THE NE COR. OF FAULKNER ROAD AND CARDINAL DRIVE

N

SCALE IN FEET: 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS & SURVEYORS
2264 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 14+00 TO STA. 23+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

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31

FAULKNER ROAD

C-902

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SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

BM #5
ELEV 946.83
MAG NAIL SET ON SOUTH SIDE OF O.P. CO. #925D/9 POWER POLE ON NORTH SIDE OF FAULKNER ROAD @ PC OF CURVE

BM #6
ELEV 943.385
MAG NAIL SET ON NORTH SIDE OF O.P. CO. #925D1/12 POWER POLE ON SOUTH SIDE OF FAULKNER ROAD @ PT OF CURVE

CP #1288
N377814.5549
E1559570.9116
ELEV 944.71
T-BAR SET LOCATED EAST OF CONCRETE DRIVE LEADING TO 6925 FAULKNER ROAD.
LOCATED 25' EAST OF POWER POLE AND 4.4' NORTH OF CATCH BASIN

CP #1287
N377474.9852
E1560126.3722
ELEV 947.01
T-BAR SET LOCATED NORTH SIDE OF FAULKNER ROAD. ±31.5 FEET WEST OF POWER POLE AND ±20.1 FEET NORTH OF NORTH EP OF FAULKNER ROAD. STRAIGHT NORTH OF STONE DRIVE THAT LEADS TO 7100 FAULKNER ROAD

FAULKNER ROAD

SCALE IN FEET: 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
ENGINEERS, SURVEYORS, ARCHITECTS
2241 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 22+00 TO STA. 31+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

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SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
7220	263.2' E	F11	_	_	_
7219	171.5' E	F11			
7165	96.4' SE	F10			
7160	80.2' SE	F10			
7130	276.1' SE	F9			
7125	178.5' SE	F9			
7100	103.6' SE	F9			
7105	41.6' SE	F9			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1287
N377474.9852
E1560126.3722
ELEV 947.01
T-BAR SET LOCATED NORTH SIDE OF FAULKNER ROAD. ±31.5 FEET WEST OF POWER POLE AND ±20.1 FEET NORTH OF NORTH EP OF FAULKNER ROAD. STRAIGHT NORTH OF STONE DRIVE THAT LEADS TO 7100 FAULKNER ROAD

CP #1350
N377232.1111
E1560639.7697
ELEV 951.38
MAG NAIL FOUND AND RESET APPROXIMATELY CENTERLINE OF JOHNSTON ROAD PROJECTED TO THE SOUTH EP OF FAULKNER ROAD.

BM #7
ELEV 951.005
MAG NAIL SET IN THE SOUTH FACE OF POWER/TELEPHONE POLE #925D1/17 ON THE NORTH SIDE OF FAULKNER ROAD AT "BUTLERS" GARAGE.

SCALE IN FEET
0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & TRANSPORTATION ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 30+00 TO STA. 39+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

11/31

FAULKNER ROAD

C-902

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TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
7277	17.9' E	F13	_	_	_
7265	9.7' E	F12			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1350
N377232.1111
E1560639.7697
ELEV 951.38
MAG NAIL FOUND AND RESET APPROXIMATELY CENTERLINE OF JOHNSTON ROAD PROJECTED TO THE SOUTH EP OF FAULKNER ROAD.

BM #10
ELEV 952.51
MAG NAIL SET ON SOUTH SIDE OF TELEPHONE POLE LP1058 OH 2014 ON NORTH SIDE OF FAULKNER ROAD AT END OF PROJECT.

SCALE IN FEET
0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ENVIRONMENTAL ENGINEERS
2264 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 38+00 TO STA. 44+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

12/31

FAULKNER ROAD

C-902

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SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
3215	284.2' NE	J2	_	_	_
3295	180.2' NE	J2			
3250	146.7' NE	J2			
3260	74.1' NE	J2			
3300	212.5' NE	J1			
stub	166.1' NE	J1			
3344	89.6' NE	J1			
3370	182.8' NE	F11			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1350
N377232.1111
E1560639.7697
ELEV 951.38
MAG NAIL FOUND AND RESET APPROXIMATELY CENTERLINE OF JOHNSTON ROAD PROJECTED TO THE SOUTH EP OF FAULKNER ROAD.

CP #1349
N378106.7225
E1561092.8197
ELEV 950.54
T-BAR SET
APPROXIMATLY 85' NORTH OF THE WEST END OF 30" CULVERT, AND ±85.6' NORTH OF THE EAST END OF 30" CULVERT

BM #8
ELEV 950.52
MAG NAIL SET ON WEST SIDE TELEPHONE POLE 058DH/4 ON EAST SIDE OF JOHNSTON ROAD.

BM #9
ELEV 948.865
MAG NAIL SET IN TOP OF 30" CONCRETE CULVERT 1.8' FROM EAST END OF PIPE ON EAST SIDE OF JOHNSTON ROAD AT NORTH END OF PROJECT.

SCALE IN FEET
0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
E. 5 ALLEN ST. LIMA, OHIO
2241 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 9+00 TO STA. 19+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

13
31

JOHNSTON ROAD C-902

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SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS					
ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP#10281 T-BAR SET SOUTH SIDE OF McPHERON ROAD ACROSS FROM HOUSE NUMBER 6427 DRIVEWAY
N378125.1330
E1556987.3203
EL 938.75

CP#1160 IRON REBAR FOUND NORTHWEST CORNER OF LOT NUMBER 6420 McPHERON ROAD
N378119.6555
E1556839.1930
EL 939.42

CP#1167 IRON PIN FOUND NORTHEAST CORNER OF LOT NUMBER 6300 McPHERON ROAD
N378125.5864
E1556384.5310
EL 952.63

CP#1168 IRON PIPE FOUND NORTHWEST CORNER OF LOT NUMBER 6266 McPHERON ROAD
N378124.99
E1556068.5900
EL 953.87

BM#13 ELEV. 942.46 MAGNAIL SET IN NORTH FACE OF POWER POLE #925B3/66 ON THE SOUTH SIDE OF McPHERON ROAD AND ON THE EAST SIDE OF PURCELL'S LONG STONE DRIVEWAY, NORTHWEST OF HOUSE #6420.

BM#14 ELEV. 952.24 MAGNAIL SET IN NORTH FACE OF THE UTILITY POLE #925B3/38 ON SOUTH SIDE OF McPHERON ROAD, NORTHWEST OF HOUSE #6336. ALSO CARRIES A UTELCO TAG.

SCALE IN FEET: 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & LAND DEVELOPMENT CONSULTANTS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 17+00 TO STA. 26+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

McPHERON ROAD

C-902

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SCALES:
1" = 40' HOR
1" = 5' VER

14

TAP LOCATIONS					
ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP#1160 IRON REBAR FOUND NORTHWEST CORNER OF LOT NUMBER 6420 McPHERON ROAD
N378119.6555
E1556839.1930
EL 939.42

CP#1167 IRON PIN FOUND NORTHEAST CORNER OF LOT NUMBER 6300 McPHERON ROAD
N378125.5864
E1556384.5310
EL 952.63

CP#1168 IRON PIPE FOUND NORTHWEST CORNER OF LOT NUMBER 6266 McPHERON ROAD
N378124.99
E1556068.5900
EL 953.87

BM#14 ELEV. 952.24
MAGNAIL SET IN THE NORTH FACE OF THE UTILITY POLE ON THE SOUTH SIDE OF McPHERON ROAD, NORTHWEST OF HOUSE #6336. POLE IS TAGGED AS OHIO POWER CO. #925B3/38 AND ALSO CARRIES A UTELCO TAG.

BM#15 ELEV. 955.18
MAGNAIL SET IN THE NORTH FACE OF THE UTILITY POLE ON THE SOUTH SIDE OF McPHERON ROAD, BETWEEN HOUSE #6266 AND HOUSE #6244. POLE IS TAGGED AS OHIO POWER CO. #925B3/64

N

SCALE IN FEET
0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 25+00 TO STA. 30+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

McPHERON ROAD

C–902

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SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS					
ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
6540 Belle.	98.3' N	BR5	_	_	_
???	152.9' N	BR5			
???	154.4' N	BR5			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

BM#21 ELEV. 939.64
MAGNAIL SET IN THE SOUTHWEST FACE OF THE UTLITY POLE ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD ABOUT 100 FEET NORTHWEST OF THE BROWN "RUDOLPH FOODS COMPANY" SIGN. POLE IS TAGGED AS OHIO POWER CO. #925B3/293

BM#22 ELEV. 942.26
DRILL HOLE SET NEAR THE SOUTHERNMOST CORNER OF THE SOUTH HEADWALL AT THE RUDOLPH FOODS DIVEWAY THAT IS OPPOSITE FROM HOUSE #6526 BELLEFONTAINE ROAD

SCALE IN FEET 0 5 40 80 0 5 10

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ENVIRONMENTAL ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 19+00 TO STA. 28+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

16
31

BELLEFONTAINE ROAD(SR117)

C-902

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SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

NOTE:
LATERALS CROSSING BELLEFONTAINE ROAD ARE TO BE BORED

CP #1205
IRON ROD FOUND NORTHEAST SIDE OF BELLEFONTAINE ROAD OPPOSITE HOUSE #6390 AND HOUSE #6400.
N379042.3437
E1556572.0340
EL 949.095

CP#10284 T–BAR SET NORTH WEST CORNER OF McPHERON AND BELLEFONTAINE ROAD
N378172.0920
E1557709.7977
EL 938.04

BM#23 ELEV. 942.48
DRILL HOLE SET NEAR THE SOUTHERNMOST CONER OF THE CONCRETE PAD FOR THE "HAWK" GAS STATION SIGN AT THE NORTHWEST CORNER OF BELLEFONTAINE ROAD AND BRENTLINGER ROAD.

BM#24 ELEV. 949.86
MAGNAIL SET IN THE NORTHEAST FACE OF THE UTLITY POLE ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD OPPOSITE HOUSE #6390 AND HOUSE #6400. POLE IS TAGGED AS OHIO POWER CO. #925B3/43

SCALE IN FEET
0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS & SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 27+00 TO STA. 36+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

17
31

BELLEFONTAINE ROAD(SR117)

C–902

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TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1205
IRON ROD FOUND NORTHEAST SIDE OF BELLEFONTAINE ROAD OPPOSITE HOUSE #6390 AND HOUSE #6400.
N379042.3437
E1556572.0340
EL 949.095

CP #1204
IRON ROD FOUND NORTHEAST SIDE OF BELLEFONTAINE ROAD OPPOSITE HOUSE #6240.
N379529.9916
E1555874.1760

BM#24 ELEV. 949.86
MAGNAIL SET IN THE NORTHEAST FACE OF THE UTLITY POLE ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD OPPOSITE HOUSE #6390 AND HOUSE #6400. POLE IS TAGGED AS OHIO POWER CO. #925B3/43

BM#25 ELEV. 957.06
MAGNAIL SET IN THE SOUTHWEST FACE OF THE UTLITY POLE ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD OPPOSITE HOUSE #6330. POLE IS TAGGED AS OHIO POWER CO. #925–130

BM#26 ELEV. 964.56
MAGNAIL SET IN THE SOUTHWEST FACE OF THE UTLITY POLE THAT IS ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD OPPOSITE HOUSE #6240. POLE IS TAGGED AS OPCO#925–128

SCALE IN FEET: 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ENVIRONMENTAL ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 35+00 TO STA. 44+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

18
31

C–902

BELLEFONTAINE ROAD(SR117)

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TAP LOCATIONS					
ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1202
IRON ROD FOUND SOUTHWEST CORNER OF LOT #6045 NORTHEAST SIDE OF BELLEFONTAINE ROAD.
N380139.4756
E1555003.7790

CP #1204
IRON ROD FOUND NORTHEAST SIDE OF BELLEFONTAINE ROAD OPPOSITE HOUSE #6240.
N379529.9916
E1555874.1760

BM#26 ELEV. 964.56
MAGNAIL SET IN THE SOUTHWEST FACE OF THE UTLITY POLE THAT IS ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD OPPOSITE HOUSE #6240. POLE IS TAGGED AS OPCO#925-128

BM#27 ELEV. 972.93
MAGNAIL SET IN THE SOUTHWEST FACE OF THE UTLITY POLE ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD IN FRONT OF HOUSE #6167. POLE IS TAGGED AS OHIO POWER CO. #925-121

SCALE IN FEET: 0 5 10 / 0 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ELECTRICAL ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 43+00 TO STA. 52+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

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TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
field stub	248.5' SE	B18	_	_	_
5979	198.7' SE	B18			
field stub	155.0' SE	B18			
6020	29.9' SE	B18			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1202
IRON ROD FOUND SOUTHWEST CORNER OF LOT #6045 NORTHEAST SIDE OF BELLEFONTAINE ROAD.
N380139.4756
E1555003.7790

CP #1157
IRON ROD FOUND SOUTHWEST CORNER OF LOT #5979 NORTHEAST SIDE OF BELLEFONTAINE ROAD.
N380447.8138
E1554562.8540

BM#28 ELEV. 981.26
DRILL HOLE SET IN THE WESTERNMOST CORNER OF THE CONCRETE WALL OF A 2'X2' CATCH BASIN ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD ABOUT 50 FEET WEST OF A UTILITY POLE TAGGED AS OHIO POWER CO. #925-119

BM#29 ELEV. 994.61
DRILL HOLE SET IN THE WESTERNMOST CORNER OF THE CONCRETE WALL OF A 2'X2' CATCH BASIN ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD WITHIN THE EASEMENT OF THE POWER COMPANY'S MAJOR TRANSMISSION LINE OF STEEL TOWERS.

SCALE IN FEET
0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 51+00 TO STA. 60+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

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SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
5898	57.1' SE	B19	_	_	_
5901	346.2' SE	B19			
field stub	275.1' SE	B19			
5901	158.7' SE	B19			
field stub	89.4' SE	B19			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1159
ODOT R/W MARKER ON NORTHEAST SIDE OF BELLEFONTAINE ROAD. IN FRONT OF HOUSE #5901
N380593.3948
E1554355.9130
EL 1000.69

CP #1157
IRON ROD FOUND SOUTHWEST CORNER OF LOT #5979 NORTHEAST SIDE OF BELLEFONTAINE ROAD.
N380447.8138
E1554562.8540

BM#30 ELEV. 999.93
MAGNAIL SET IN THE SOUTHWEST FACE OF THE UTLITY POLE THAT IS ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD IN FRONT OF HOUSE #5901. POLE TAGGED AS OHIO POWER CO. #925-8

BM#29 ELEV. 994.61
DRILL HOLE SET IN THE WESTERNMOST CORNER OF THE CONCRETE WALL OF A 2'X2' CATCH BASIN ON THE NORTHEAST SIDE OF BELLEFONTAINE ROAD WITHIN THE EASEMENT OF THE POWER COMPANY'S MAJOR TRANSMISSION LINE OF STEEL TOWERS.

SCALE IN FEET
0 5 40 80
0 10

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS & LAND SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA.59+00 TO STA. 64+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

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31

C-902

BELLEFONTAINE ROAD(SR117)

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TAP LOCATIONS					
ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

BM #2
ELEV 947.28
MAG NAIL SET IN TOP OF CURB ON NORTH SIDE OF FAULKNER ROAD @ NE CORNER OF BELEFONTAINE ROAD & FAULKNER ROAD, 5.75' WEST OF STOP SIGN.

CP #1356 MAG NAIL SET IN SIDEWALK AT THE NORTHWEST CORNER OF FAULKNER ROAD AND BELLEFONTAINE ROAD.
N377556.1030
E1558176.1247
ELEV 946.81

CP #4581 T-BAR SET SOUTH EAST CORNER OF KATRINA AND BELLEFONTAINE ROAD
N378113.7559
E1557897.2983

CP #10284 T-BAR SET NORTH WEST CORNER OF McPHERON AND BELLEFONTAINE ROAD
N378172.0920
E1557709.7977
EL 938.04

CP #1518 & BM #11
DRILL HOLE SET ON THE WEST WALL OF CATCH BASIN ON THE NORTHWEST CORNER OF WESTMINSTER STREET AND BELLEFONTAINE ROAD.
N377829.3142
E1557984.8260
EL 939.62

BM #16
ELEV 939.67
MAGNAIL SET IN THE EAST FACE OF THE UTLITY POLE ON THE SOUTHEAST CORNER OF BELLEFONTAINE ROAD AND KATRINA DRIVE. POLE IS TAGGED AS OHIO POWER CO. #825B3/8

SCALE IN FEET 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 0+00 TO STA. 0+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

22
31

BELLEFONTAINE ROAD(SR117)

C-902

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SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

BM #2
ELEV 947.28
MAG NAIL SET IN TOP OF CURB ON NORTH SIDE OF FAULKNER ROAD @ NE CORNER OF BELEFONTAINE ROAD & FAULKNER ROAD, 5.75' WEST OF STOP SIGN.

CP #1356
N377556.1030
E1558176.1247
ELEV 946.81
MAG NAIL SET IN SIDEWALK AT THE NORTHWEST CORNER OF FAULKNER ROAD AND BELLEFONTAINE ROAD.

SCALE IN FEET
0 5 10
0 40 80

CALCULATED –
CHECKED –

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS AND SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 12+00 TO STA. 16+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

BELLEFONTAINE ROAD(SR117)

C–902

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SCALES:
1" = 40' HOR
1" = 5' VER

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
3360 Car.	130.0' SE	C3	_	_	_
3359 Car.	122.6' SE	C3			
3330 Car.	57.7' SE	C3			
6700 Fau.	72.0' SE	F3			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

NOTE:
LATERALS CROSSING CAREY STREET ARE TO BE OPENED CUT

CP #1353
N377662.1816
E1558464.0297
ELEV 944.04
MAG NAIL SET IN THE SOUTH WEST QUADRANT OF THE INTERSECTION OF FAULKNER ROAD, AND CAREY STREET

CP #1210 IRON ROD FOUND AT THE INERSECTION OF CENTERLINE OF CAREY STREET PROJECTED TO THE NORTH R/W LINE OF KATRINA STREET.
N378293.0380
E1558161.2190
EL 941.83

BM #2
ELEV 947.28
MAG NAIL SET IN TOP OF CURB ON NORTH SIDE OF FAULKNER ROAD @ NE CORNER OF BELEFONTAINE ROAD & FAULKNER ROAD, 5.75' WEST OF STOP SIGN.

CP #1356
N377556.1030
E1558176.1247
ELEV 946.81
MAG NAIL SET IN SIDEWALK AT THE NORTHWEST CORNER OF FAULKNER ROAD AND BELLEFONTAINE ROAD.

SCALE IN FEET 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS AND SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 16+00 TO STA. 20+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

24
31

CAREY STREET

C-902

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TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1517
N377674.5326
E1557736.4425
ELEV 936.04
DRILL HOLE SET IN THE SOUTHWEST CORNER OF THE 30– INCH SQUARE CONCRETE PAD FOR A CATCH BASIN AT THE DEAD END OF THE RIGHT–OF–WAY OF WESTMINSTER STREET

CP #1518 & BM #11
N377829.3142
E1557984.8260
EL 939.62
DRILL HOLE SET ON THE WEST WALL OF THE CATCH BASIN ON THE NORTHWEST CORNER OF WESTMINSTER STREET AND BELLEFONTAINE ROAD.

CP #1519
N377983.0276
E1558323.9473
MAG NAIL SET IN THE NORTH EAST QUADRANT OF THE INTERSECTION OF CAREY STREET AND WESTMINSTER STREET

REV. 07–08–2011 BWA

WESTMINSTER STREET

SCALE IN FEET: 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS • LAND SURVEYORS
2244 Belson Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 6+00 TO STA. 14+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

25
31

C–902

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TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
3145 Cardinal	329.5' NE	C2	_	_	_
field stub	329.5' NE	C2			
6746 Westmin	323.8' NE	C2			
6745 Westmin	251.6' NE	C2			
6730 Westmin	248.3' NE	C2			
field stub	227.0' NE	C2			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1517
N377674.5326
E1557736.4425
ELEV 936.04
DRILL HOLE SET IN THE SOUTHWEST CORNER OF THE 30- INCH SQUARE CONCRETE PAD FOR A CATCH BASIN AT THE DEAD END OF THE RIGHT-OF-WAY OF WESTMINSTER STREET

CP #1518 & BM #11
N377829.3142
E1557984.8260
EL 939.62
DRILL HOLE SET ON THE WEST WALL OF THE CATCH BASIN ON THE NORTHWEST CORNER OF WESTMINSTER STREET AND BELLEFONTAINE ROAD.

CP #1519
N377983.0276
E1558323.9473
MAG NAIL SET IN THE NORTH EAST QUADRANT OF THE INTERSECTION OF CAREY STREET AND WESTMINSTER STREET

SCALE IN FEET
0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & TELECOMMUNICATIONS ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 14+00 TO STA. 18+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

26
31

WESTMINSTER STREET

C-902

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TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
6820 Fau.	303.0' ENE	C3	_	_	_
6730 Fau.	284.2' ENE	C3			
6760 Fau.	260.7' ENE	C3			
6740 Fau.	239.0' ENE	C3			
3333 1/2	150.9' ENE	C3			
3333 Fau.	99.9' ENE	C3			
6666 Fau.	66.8' SW	C3			

NOTE:
ALL TAP MEASUREMENTS ARE FROM DOWNSTREAM SANITARY MANHOLE, UNLESS OTHERWISE NOTED. MEASUREMENTS ARE 90 DEGREES FROM SANITARY LINE.

CP #1353
N377662.1816
E1558464.0297
ELEV 944.04
MAG NAIL SET IN THE SOUTH WEST QUADRANT OF THE INTERSECTION OF FAULKNER ROAD, AND CAREY STREET

REV. 07-08-2011 BWA

SCALE IN FEET: 0 5 10 40 80

CALCULATED JRH
CHECKED MJG

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ENVIRONMENTAL ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE
STA. 13+00 TO STA. 17+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

BUCKEYE ALLEY

C-902

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5

14

TAP LOCATIONS

ADDRESS	DISTANCE AND DIRECTION FROM MH	MH NO.	RISER/ DEPTH	LENGTH OF LATERAL	DEPTH AT R/W
–	–	–	–	–	–

FORCE MAIN

N

0 40 80 SCALE IN FEET
0 5 10

DRAWN BWA
CHECKED JRM

DESIGN AGENCY
KOHLI & KALIHER ASSOCIATES, INC.
CIVIL ENGINEERS AND SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PLAN AND PROFILE STA. 10+00 TO STA. 19+00

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

28/31

C-902

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NOTE: DAMAGE TO PAVEMENT, BERM, DRAINAGE, ETC. OUTSIDE OF PAY LIMITS SHALL BE REPAIRED AT CONTRACTORS EXPENSE TO ENGINEER'S SATISFACTION.

C.Y. = $\frac{WXLXD}{27}$

WHERE: W= I.D. PIPE + 2'
D= DEPTH FROM SUB GRADE OF PAVEMENT TO 1' ABOVE PIPE BARREL
L= PAVEMENT WIDTH + 8' + D OR LENGTH OF AREA FILLED WITH ITEM 912 + D

GRANULAR BACKFILL LIMITS

ITEM 912

CATCH BASIN 2-2B

NTS

RISER DETAIL

ITEM 915

ASPHALT DRIVEWAY REPLACEMENT

ITEM 917-304,404

CONCRETE DRIVEWAY REPLACEMENT

ITEM 917-452

STONE DRIVEWAY REPLACEMENT

ITEM 917-304

PIPE SIZE	6"-12"	15"-21"	24"-27"
MAX. PAY TRENCH WIDTH	36"	42"	48"
MAX. PAY PAVEMENT WIDTH	6'-0"	6'-6"	7'-0"

MAXIMUM PAY WIDTH TABLE

TYPICAL SEWER TRENCH

THE CONTRACTOR SHALL RESTORE ALL EXISTING DRAINAGE DISTURBED DURING TIE WORK. REPLACEMENT PIPE FOR DRAINAGE CROSSING THE TRENCH SHALL BE TYPE A CONDUIT AS SPECIFIED UNDER 603.02. DRAINAGE PIPE PARALLEL TO THE TRENCH SHALL BE REPLACED WITH TYPE B CONDUIT AS SPECIFIED UNDER 603.02. TYPE OF CONDUIT SHALL BE DETERMINED BY THE ENGINEER.
*PAY LENGTH FOR ALL DRAINAGE PIPES SHALL BE PAID IN ACCORDANCE WITH ITEM 603.09 AND 603.10. QUANTITIES TO BE USED AT THE DIRECTION OF THE ENGINEER ARE ESTABLISHED IN THE BID SCHEDULE.

DRAINAGE REPLACEMENT

ITEM 603

ROADWAY PAVEMENT REPLACEMENT

ITEM 917-304,402,404

CASTING INCLUDING FRAME AND LID SHALL BE HEAVY DUTY AND TOGETHER WEIGH AT LEAST 300 POUNDS. THE LID SHALL BE 23 3/4" IN DIAMETER AND 1 1/2" THICK AT THE OUTSIDE EDGE. CASTING AND FRAME TO BE NEENAH R-1668, EAST JORDAN 1590. PROVIDE SOLID LIDS WITH MACHINED BEARING SURFACE BETWEEN LID AND FRAME IN PAVED AREAS AND WHERE NOTED.

TYPE "A" MANHOLE

ITEM 902

TYPE "C" MANHOLE

ITEM 902

TYPE "B" MANHOLE

ITEM 902

CLEANOUT

ITEM 902

FOR 6" AND 8" SEWER PIPE

CALCULATED JRH
CHECKED JRM

KOHLI & KALIHER ASSOCIATES, INC.
CONSULTING ENGINEERS AND SURVEYORS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

CONSTRUCTION DETAILS

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

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LATERAL BORED IN PLACE UNDER PAVEMENT

PAY ITEM 915
NO SCALE

RESTRAINED MECHANICAL JOINT

SECTION C-C

CONCRETE THRUST BLOCKING DETAIL

GUARDPOST/BOLLARD DETAIL IN CONCRETE BOXOUT

SEWER CONNECTION

PAY ITEM 915
NO SCALE
FOR MAINLINE SEWERS 12' DEEP OR LESS TEE IN VERTICAL POSITION

SEWER CONNECTION

PAY ITEM 915
NO SCALE
FOR MAINLINE SEWERS OVER 12' DEEP TEE AT 45° ANGLE

TRENCH BACKFILL MATERIAL
1. UNDER PAVEMENT AND DRIVES USE FULL DEPTH GRANULAR BACKFILL MEETING REQUIREMENTS OF ITEM 912.
2. WITHIN 4' OF PAVEMENT, USE GRANULAR BACKFILL MEETING REQUIREMENTS OF ITEM 912 TO WITHIN 12" OF SURFACE. REMAINDER OF TRENCH TO USE SELECT EXCAVATED MATERIAL WITH TOP 6" BEING TOPSOIL.
3. BACKFILL AS DESCRIBED IN SPECIFICATIONS.

TYPICAL FORCE MAIN TRENCH

CASING TO BE A MINIMUM OF 4" LARGER IN DIA. THAN CARRIER PIPE BELL.
CASING TO BE FILLED WITH GROUT AFTER CARRIER PIPE IS INSTALLED.
CARRIER PIPE BELL SHALL NOT TOUCH CASING PIPE.

CASING DETAILS

ITEM 909

CALCULATED JRH
CHECKED JRM

KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ENVIRONMENTAL ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

CONSTRUCTION DETAILS

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

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NOTE: CONTRACTOR TO PROVIDE SERVICE SPOOL FOR 6" FLOW METER

METER MANHOLE

HOLE LOCATIONS:
A) 11" HOLE, 1'-11" UP F.O.B. SECTION A (11-06 PSX.)
B) 11" HOLE, 1'-11" UP F.O.B. SECTION A (11-06 PSX.)
C) 8" HOLE, 3'-8" UP F.O.B. SECTION A (8 QRS STEP "S" PSX.)

INSTALLATION OF ELECTRIC SERVICE TO PUMP STATION AND COMMINUTOR IS TO BE COMPLETED UNDER WASTE WATER TREATMENT CONTRACT

PUMP STATION SITE

ELECTRICAL RACK

USE THIS VIEW FOR PUMP STATION ORIENTATION

1	Item 404	1" ASPHALT CONCRETE, AC-20
2	Item 301	3" BITUMINOUS AGGREGATE BASE
3	Item 304	7" AGGREGATE BASE
4	Item 203	SUB GRADE COMPACTION

TYPICAL DRIVEWAY SECTION

1	ITEM 452	6" NON-REINFORCED PORTLAND CEMENT CONCRETE WALKWAY
2	ITEM 304	4" AGGREGATE BASE
3		1" PREFORMED EXPANSION JOINT

TYPICAL CONCRETE SECTION

AIR BUBBLER CLEANOUT DETAIL

ITEM	DESCRIPTION	MAT'L & SIZE
1	PUMP	GORMAN RUPP JSV3G60-E6.2 OR APPROVED EQUAL
2	BASE	CAST CONCRETE
3	PLUG VALVE	CAST IRON 4"
4	CHECK VALVE	CAST IRON 4"
5	WET WELL VENT	PVC 4"
6	CONTROL PANEL	STAINLESS STEEL NEMA 1
7	OPW ADAPTER W/ DUST CAP	ALUMINUM 4"
8	TELEMETRY PANEL- ALLEN COUNTY SPECIFICATION	BLACK ENAMEL 18ga. POWDER COATED STEEL, MISSION COMMUNICATION
9	FLOW METER-POLYSONICS HYDRA SX 40	STAINLESS STEEL PANEL

ALL JOINTS BETWEEN M.H. WALL AND PIPES, CONDUIT ETC. TO BE "COMPRESSION TYPE" SEALS SUCH AS PRESS WEDGE II MANUFACTURED BY PRESS- SEAL GASKET CORPORATION OR EQUAL.

PUMP STATION

COMMINUTOR MANHOLE

DRAWN JRH
CHECKED JRM

KOHLI & KALIHER ASSOCIATES, INC.
CIVIL & ELECTRICAL ENGINEERS
2244 Baton Rouge, Lima, Ohio 45805 419-227-1135

PUMP STATION COMMINUTOR

WESTMINSTER SEWER IMPROVEMENT AREA
SANITARY SEWER COLLECTION SYSTEM
ALLEN COUNTY, OHIO

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C-902

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