NO SCALE

EXISTING TELECOMMUNICATIONS × — × — × EXISTING FENCE LINE EXISTING CATCH BASIN EXISTING SANITARY MANHOLE EXISTING SANITARY CLEANOUT EXISTING DOWN SPOUT

EXISTING FIRE HYDRANT EXISTING WATER VALVE EXISTING POWER POLE

EXISTING ELECTRICAL TRANSFORMER EXISTING ELECTRIC MANHOLE EXISTING ELECTRIC METER

EXISTING GUY WIRE EXISTING POST **1**101 SOIL BORING NAIL SET

UTILITY LIST

FRONTIER COMMUNICATIONS (FORMER VERIZON) 500 LANCASTER PIKE CIRCLEVILLE, OH 43113 (740) 474-5033

COLUMBIA GAS TRANSMISSION 1440 MCNAUGHTON ROAD COLUMBUS, OH 43232

SOUTH CENTRAL POWER COMPANY 720 MILL PARK DR., LANCASTER, OHIO 43130 MIKE CHALFAN (740) - 689 - 6168

COLUMBIA GAS OF OHIO 843 PIATT AVENUE CHILLICOTHE, OHIO 45601 MICHAEL PAULUS (740) 774-8229 HUDŚON PARK – ASSOCIATE FIELD ENGINEER

AMERICAN ELECTRIC POWER 1320 SUGAR GROVE ROAD LANCASTER, OHIO 43130 EMAIL PLANS TO: DRBROWN@AEP.COM (740) 689-4700

SPRINT COMMUNICATIONS STEVE HUGHES 3873 TWP RD 134 CARDINGTON, OH 43315

MOX NETWORKS (FIBER OPTICS) MICK SHIELDS, MÌCK@MOXNETWÓRKS.COM (312) 502-5590

200 EAST STATION STREET ASHVILLE, OHIO 43103 (740) 983–6367

GRADING LEGEND

0.5%

 $\times^{674.00}$

 $\times^{674.00*}$

 $\sim \sim \rightarrow$

PROPOSED MINOR CONTOUR

PROPOSED SPOT ELEVATION

DRAINAGE FLOW ARROW

ADD 0.50' FOR TOP OF CURB ELEVATION

PROPOSED SLOPE

SPECTRUM / TIME WARNER COMMUNICATIONS 1315 GRANVILLE PIKE LANCASTER, OHIO 43130 (740) 635 - 9685

140 WEST WHEELING STREET LANCASTER, OHIO 43130 (740) 687-6696

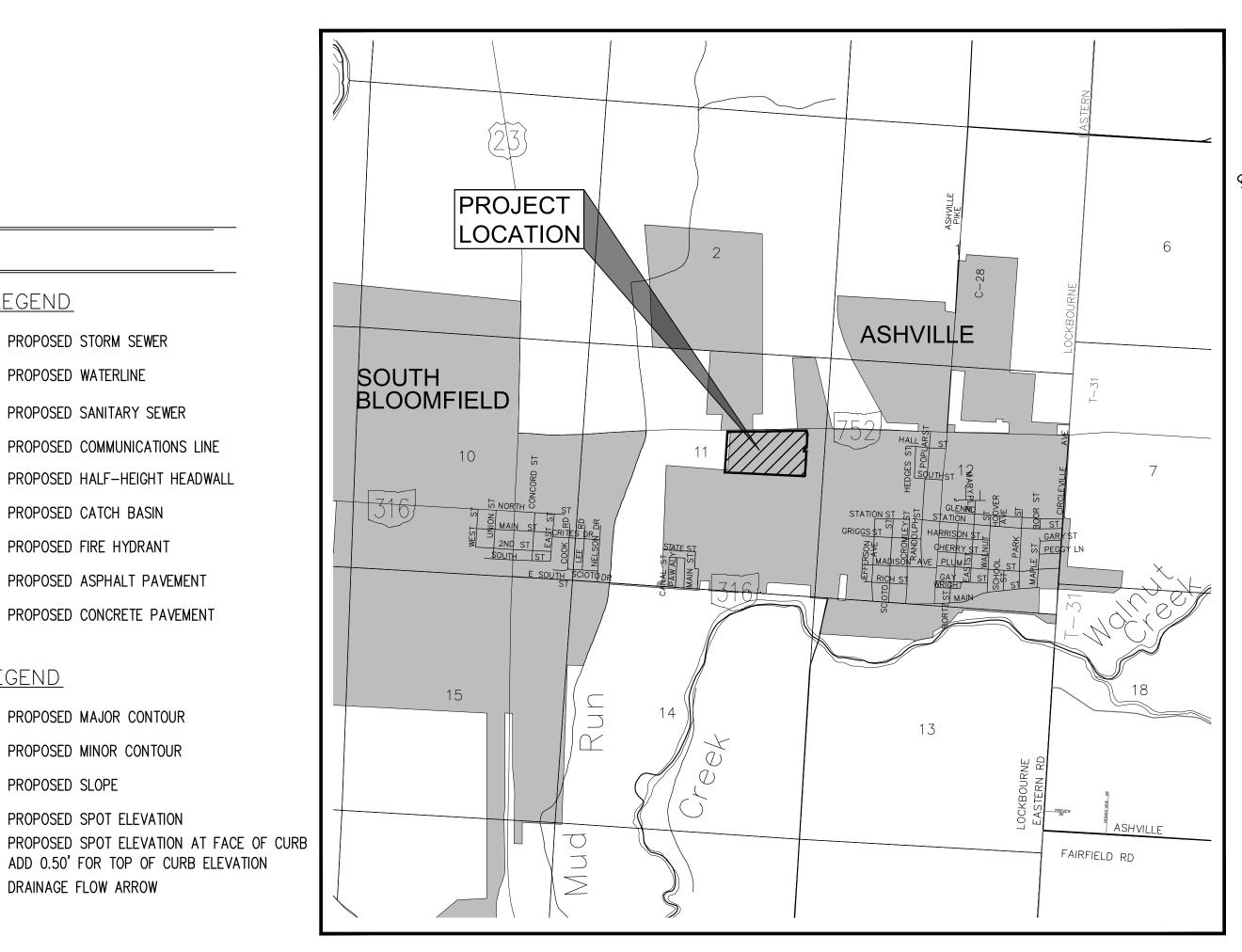
*VILLAGE OF ASHVILLE SERVICE DEPARTMENT 160 CHERRY STREET ASHVILLE, OHIO 43103 (740) 983-4053

WATERLINE SANITARY SEWER & STORM SEWER ONLY

*THE VILLAGE OF ASHVILLE DOES NOT SUBSCRIBE OR IS A MEMBER OF OUPSOHIO 45601 (614) 772-9224

DHL SUPPLY CHAIN

ASHVILLE LOGISTICS PARK ASHVILLE, OHIO



INDEX MAP SCALE: 1 inch = 2000 feet

SIGNATURES

SERVICE DEPARTMENT, SUPERVISOR

VILLAGE ENGINEER, VILLAGE OF ASHVILLE

MAYOR, VILLAGE OF ASHVILLE

VILLAGE ADMINISTRATOR, VILLAGE OF ASHVILLE

NOTE: APPROVAL OF THESE PLANS DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. THE REVIEWER DOES NOT ACCEPT RESPONSIBILITY FOR THE INTEGRITY OF THE PLANS. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN.

OWNER PRAIRIE ACRES LLC CIMS PROPERTY MANAGEMENT 32 MILLER ST. SUITE A ASHVILLE, OHIO 43103

<u>DEVELOPER</u> DHL SUPPLY CHAIN 360 WESTAR BLVD WESTERVILLE, OH 43082

DESIGN ENGINEER POGGEMEYER DESIGN GROUP A KLEINFELDER COMPANY 1168 NORTH MAIN STREET BOWLING GREEN, OH 43402 PH: (419) 352-7537

SPECIFICATIONS

ALL MATERIAL AND CONSTRUCTION MUST MEET THE REQUIREMENTS OF THE VILLAGE OF ASHVILLE:

STORM SEWER

THE STANDARDS AND SPECIFICATIONS OF THE VILLAGE OF ASHVILLE AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY

WATERLINES

THE STANDARDS AND SPECIFICATIONS OF THE VILLAGE OF ASHVILLE AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY

SANITARY SEWER

SHEET#

THE STANDARDS AND SPECIFICATIONS OF THE VILLAGE OF ASHVILLE AND THE OHIO ENVIRONMENTAL PROTECTION AGENCY

PAVEMENT

THE STANDARDS AND SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN (SWP3)

BENCHMARK

VERTICAL DATUM IS BASED ON NAVD88 AS OBSERVED FROM CONTINUALLY OPERATED BASE STATION MANAGED BY OHIO

THE COORDINATES ARE REFERENCED TO OHIO STATE PLANE GRID COORDINATES OH-S NAD83 (2011).

ZONING

ZONING - LI (LIMITED INDUSTRIAL DISTRICT)

SETBACKS

50' SIDE YARD SETBACK 50' REAR YARD SETBACK MAX. BLDG. HEIGHT 50'

SITE DATA

..40.366 ACRES EXISTING R/W.... ...1.001 ACRES WETLANDS....0.70 ACRES

SHEET INDEX

DRAWING DESCRIPTION

1	COVER SHEET
2	GENERAL SUMMERY
3	GENERAL NOTES
4	GENERAL NOTES
5	SEWER DETAIL SHEET
6	WATERLINE DETAIL SHEET
7	WATERLINE DETAIL SHEET
8	WATERLINE DETAIL SHEET
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12	DETAIL SHEET
13	STORM WATER PUMP STATION PLAN AND DETAILS
14	EROSION AND SEDIMENT CONTROL DETAILS
15	EROSION AND SEDIMENT CONTROL NOTES
16	EXISTING TOPOGRAPHY AND DEMOLITION PLAN
17	OVERALL PROPOSED SITE PLAN
18	DIMENSION AND PAVEMENT PLAN
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20	GRADING PLAN
21	GRADING PLAN
22	UTILITY PLAN
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26	STORM SEWER PROFILES
27	STORM SEWER AND SANITARY SEWER PROFILES
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29	CONSTRUCTION EROSION AND SEDIMENT CONTROL PLAN
30	LANDSCAPE PLAN

2/3/23 VILLAGE SUBMITTAL

REV. DATE DESCRIPTION

POGGEMEYER DESIGN GROUP





KAM

MEK

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09/13/2022

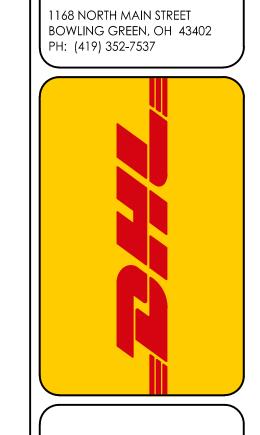
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(740) 637-9378

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441	1,910	C.Y.	ASPH	IALT CON	ICRETE	SURFACE	COURS	E, TYPE	A, (446)
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603	2,604	L.F.				ONDUIT,			
603	416	L.F.				ONDUIT,			
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603	192	L.F.				ONDUIT,			
603	433	L.F.			24" ST	ORM FOR	RCE MAIN	1	
603	3	EACH			24	" 45° ELE	BOW		
604	14	EACH		-		MANHOL			
	16	EACH				ASIN, TYF			
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604	7	EACH				<u> </u>	T A A C :	00.4	
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				WATER SUPPLY AND DISTRIBUTION
	801	4,863	L.F.	10" WATERLINE
	801	200	L.F.	6" WATERLINE
	801	150	L.F.	3" WATERLINE
	801	3	EACH	10" 90° ELBOW
	222		= 4 011	(011) (011) (701) (701)
	802	9	EACH	10" VALVES WITH BOXES
	802	2	EACH	3" VALVE
	803	14	EACH	10"x6" ANCHOR TEE,
	803	11	EACH	10"x10" TEE,
	803	1	EACH	12"x12" TEE, CUT-IN-SLEEVE
	803	1	EACH	10"x12" REDUCER
	803	2	EACH	10"x3" TEE
	809	14	EACH	HYDRANT ASSEMBLY
	809	1	EACH	FIRE HYDRANTS, RELOCATED
	009	'	LACIT	TIKE TITOKANTO, KELOCATED
				SANITARY SEWER WORK
	901	253	L.F.	6" SANITARY SEWER SERVICE
	901	1,010	L.F.	6" C-900 PVC DR-18 SANITARY FORCE MAIN
	904	1	EACH	SANITARY SEWER MANHOLE, TYPE C
	904	1	L.S.	SANITARY SEWER PUMP STATION
	915	4	EACH	6" 45° ELBOW
	915	2	EACH	CLEANOUTS
				INCIDENTIALS
	607	2,852	L.F.	FENCE, TYPE 8' CHAIN LINK FENCE WITH 3 STRANDED BARBED WIRE
	607	4	EACH	36' DOUBLE LEAF GATE
	608	7,966	S.F.	CONCRETE WALK/STOOP/INTEGRAL CURB
	608	4	EACH	CURB RAMPS
	609	7,332	L.F.	COMBINATION CURB AND GUTTER, TYPE 2- 8" CURB
	609	1,896	L.F.	COMBINATION CURB AND GUTTER, TYPE 1-12" CURB
		1,000		
	0.1.1			GENERAL
	614	1	L.S.	MAINTAINING TRAFFIC
	616	1	L.S.	DUST CONTROL
-	616	1	L.S.	EROSION CPNTROL
	623	1	L.S.	CONSTRUCTION LAYOUT STAKES
	624	1	L.S.	MOBILIZATION
	630	1	L.S.	TRAFFIC SIGNS AND SIGN SUPPORTS
	501	32	EACH	BOLL
	301	32	LAUT	ARDS
				PAVEMENT MARKING
		1	 	PAVEMENT MARKINGS-GENERAL
	640	1	L.S.	FAVLIVILIT WARRINGS-GLINERAL
	640	1	L.S.	
	640	66,432	L.S. S.Y.	ROADSIDES SEEDING AND MULCHING



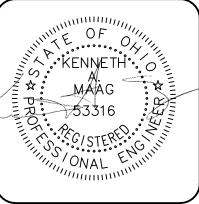


DHL SUPPLY CHAIN ASHVILLE LOGISTICS PARK ASHVILLE, OHIO

GENERAL SUMMERY

DRAWN BY CHECKED BY KAM

WER RAW



2/3/23 VILLAGE SUBMITTAL
REV. DATE DESCRIPTION

VILLAGE OF ASHVILLE GENERAL NOTES GENERAL PLAN NOTES (06-01-20)

GEN 1 THE VILLAGE OF ASHVILLE REQUIREMENTS, TOGETHER WITH THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION AND THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATION, SHALL GOVERN ALL CONSTRUCTION ITEMS, MATERIAL, WORKMANSHIP, ETC THAT ARE A PART OF THIS PLAN, ENFORCE ON THE DATE OF CONTRACT, UNLESS OTHERWISE NOTED. EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING GENERAL NOTES AND/OR SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN. THE CONTRACTOR SHALL ALSO CONFORM TO REQUIREMENTS OF THE VILLAGE OF ASHVILLE GENERAL PROVISIONS AND THE STANDARD CITY OF COLUMBUS DETAIL CONSTRUCTION DRAWINGS. IF THERE ARE ANY DISCREPANCIES, THE VILLAGE OF ASHVILLE

GEN 2 ANY MODIFICATION TO THE SPECIFICATIONS OR CHANGES TO WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE VILLAGE ENGINEER.

GEN 3 THE CONTRACTOR OR SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR OR SUBCONTRACTOR SHALL ALSO ABIDE BY ALL ORDINANCES OF THE VILLAGE OF ASHVILLE, OHIO.

GEN 4 PRIOR TO BIDDING THE CONTRACTOR SHALL, BY PERSONAL EXAMINATION, SATISFY THEMSELVES AS TO THE LOCATION OF THE PROPOSED WORK AND TO ACQUAINT THEMSELVES THOROUGHLY WITH THE EXISTING CONDITIONS AND THE DIFFICULTIES THAT ARE LIKELY TO BE ENCOUNTERED IN THE PERFORMANCE OF THE PROPOSED WORK. THIS IS ESPECIALLY TRUE WITH REGARD TO ANY REMOVAL ITEMS.

GEN 5 ALL WORK SHALL BE COMPLETELY ACCEPTABLE TO THE VILLAGE OF ASHVILLE OFFICIALS. NO WORK SHALL BE COMMENCED UNTIL ARRANGEMENTS HAVE BEEN MADE WITH THE VILLAGE OF ASHVILLE ENGINEER FOR INSPECTION. NECESSARY LINE AND GRADE STAKING WILL BE PROVIDED BY THE DEVELOPER. CUT SHEETS SHALL BE SUBMITTED AND APPROVED BY THE VILLAGE PRIOR TO THE BEGINNING OF CONSTRUCTION.

GEN 6 PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS NECESSARY TO COORDINATE AND PROVIDE FULL-TIME INSPECTION SERVICE BY THE VILLAGE FOR THE PROPOSED WORK. COST OF INSPECTION SHALL BE PAID FOR BY THE DEVELOPER.

GEN 7 THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE VILLAGE OF ASHVILLE ENGINEERING

DEPARTMENT AT LEAST SEVEN (7) DAYS PRIOR TO ANY CONSTRUCTION. GEN 8 THE CONTRACTOR OR DEVELOPER SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND GOVERNMENT FEES, LICENSES, AND INSPECTIONS FOR THE PROPER EXECUTION AND COMPLETION OF THE IMPROVEMENTS SHOWN ON THE

PLANS PRIOR TO CONSTRUCTION. ALL PERTINENT STANDARD CONSTRUCTION DRAWINGS ARE AVAILABLE UPON REQUEST

OF THE OFFICE OF THE VILLAGE ENGINEER. GEN 9 THE CONTRACTOR SHALL NOTIFY ALL OF THE AFFECTED PROPERTY OWNERS AT LEAST TWO (2) WEEKS PRIOR TO THE SCHEDULED COMMENCEMENT OF WORK ON THE JOB SITE. THIS LETTER SHALL STATE THE DATE CONSTRUCTION IS TO BEGIN AND THAT RESIDENT SHOULD REMOVE ANY ITEMS. EXAMPLE: SHRUBS. SPOT LIGHTS. FENCES. STONES OR BRICKS. ETC., WHICH MAY FALL WITHIN THE WORK LIMITS. THE LETTER SHOULD ALSO CONTAIN THE NAME AND A TWENTY-FOUR (24) HOUR PHONE NUMBER OF A CONTACT, FROM THE CONTRACTOR'S FIRM, WHO COULD BE CONTACTED IN CASE OF

EMERGENCY. THIS LETTER, FOR CONVENIENCE PURPOSES, SHALL CONTAIN A PHONE NUMBER FOR ALL LOCAL LAW

GEN 10 EXISTING UTILITIES SHOWN ARE FROM BEST AVAILABLE RECORDS AND FIELD INVESTIGATION, AND ARE NOT NECESSARILY COMPLETE OR EXACT. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT OF THE PROPOSED CONSTRUCTION, AND SHALL MAKE ADJUSTMENTS IN ELEVATIONS AS DIRECTED BY THE VILLAGE ENGINEER TO PROVIDE SUFFICIENT CLEARANCE BETWEEN THE PROPOSED AND EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 THREE (3) WORKING DAYS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES AND ACCORDING TO 153.64, OHIO REVISED CODE (ORC) SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

GEN 11 THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND DO SUBSCRIBE TO A REGISTERED UNDERGROUND UTILITY SERVICES:

SPRINT COMMUNICATIONS

3873 TWP RD 134

(312) 502-5590

(740) 983-4053

(740) 983–6367

CARDINGTON, OH 43315

MOX NETWORKS (FIBER OPTICS)

MICK SHIELDS, MICK@MOXNETWORKS.COM

*VILLAGE OF ASHVILLE SERVICE DEPARTMENT

160 CHERRY STREET ASHVILLE, OHIO 43103

WATERLINE SANITARY SEWER & STORM SEWER ONLY

200 EAST STATION STREET ASHVILLE, OHIO 43103

FRONTIER COMMUNICATIONS (FORMER VERIZON) 500 LANCASTER PIKE CIRCLEVILLE, OH 43113

ENFORCEMENT AGENCIES AND FIRE SAFETY FORCES.

(740) 474-5033 COLUMBIA GAS OF OHIO 843 PIATT AVENUE CHILLICOTHE, OHIO 45601

MICHAEL PAULUS (740) 774-8229 HUDSON PARK - ASSOCIATE FIELD ENGINEER (740) 637-9378

SOUTH CENTRAL POWER COMPANY 720 MILL PARK DR., LANCASTER, OHIO 43130 MIKE CHALFAN (740)-689-6168

AMERICAN ELECTRIC POWER 1320 SUGAR GROVE ROAD LANCASTER, OHIO 43130 EMAIL PLANS TO: DRBROWN@AEP.COM (740) 689-4700

SPECTRUM / TIME WARNER COMMUNICATIONS 1315 GRANVILLE PIKE LANCASTER, OHIO 43130 (740) 635-9685

140 WEST WHEELING STREET LANCASTER, OHIO 43130

COLUMBIA GAS TRANSMISSION 1440 McNAUHTON ROAL COLUMBUS, OHIO 43232

*THE VILLAGE OF ASHVILLE DOES NOT SUBSCRIBE OR IS A MEMBER OF OUPSOHIO 45601 (614) 772-9224

GEN 12 THE CONTRACTOR IS SPECIFICALLY CALITIONED THAT THE LOCATION AND/OR FLEVATION OF EXISTING LITHLITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIES ON AS BEING EXACT OR COMPLETE. THE VILLAGE OF ASHVILLE AND/OR ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR DEPTHS OF THE UNDERGROUND FACILITIES AS SHOWN ON THE PLANS. THE CONTRACTOR MUST CALL APPROPRIATE UTILITY COMPANY AT LEAST SEVEN (7) DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY FOR THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED GEN 13 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF ANY UTILITIES AS REQUIRED BY THE

PLAN WITH THE OWNER OF THE AFFECTED UTILITY. GEN 14 WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF LAYING PIPE OR DUCT IN ORDER THAT THE

ENGINEER MAY DETERMINE THE EXACT ELEVATION AND MAKE ANY NECESSARY ADJUSTMENTS. COST OF THE ABOVE SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS IN THE CONTRACT.

GEN 15 ALL MATERIALS INCLUDING PIPING, APPURTENANCES, MANHOLES, GRAVEL, ETC. TO BE UTILIZED FOR DEDICATED PUBLIC UTILITIES OR ROADWAYS MUST BE APPROVED BY THE VILLAGE OF ASHVILLE ENGINEER.

GEN 16 ALL FIFLD THES BROKEN DURING EXCAVATION SHALL BE REPLACED BY THE CONTRACTOR TO ORIGINAL CONDITION OR CONNECTED TO THE CURB SUB DRAIN OR TO THE STORM SEWER SYSTEMS AS DIRECTED BY THE ENGINEER.

GEN 17 TWENTY-FOUR (24) HOUR ADVANCE NOTIFICATION IS REQUIRED FOR ALL WORK REQUIRING INSPECTION, TESTING, OR APPROVAL BY THE VILLAGE ENGINEER OR BUILDING DEPARTMENTS.

GEN 18 THE CONTRACTOR SHALL REPAIR OR REPLACE ANY AND ALL EXISTING WORK DAMAGED DURING OR DUE TO THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION PRIOR TO THE DAMAGE. AT THEIR OWN EXPENSE, ALL SAID WORK TO BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE DEVELOPER'S ENGINEER AND VILLAGE OF ASHVILLE ENGINEER. ANY DAMAGE TO OTHER UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE APPROPRIATE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.

GEN 19 CARE SHALL BE EXERCISED WHEN WORKING THE AREA AROUND EXISTING TREES AND SHRUBS. ANY TREES OR SHRUBS NOT MARKED FOR REMOVAL THAT ARE DAMAGED BY THE CONTRACTOR WILL HAVE TO BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.

GEN 20 ANY PROPERTY CORNER PINS OR PERMANENT SURVEY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A REGISTERED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

GEN 21 EXISTING STRUCTURES TO BE REMOVED OR DEMOLISHED REQUIRE A "DEMOLITION PERMIT" ISSUED BY THE VILLAGE OF ASHVILLE ENGINEER.

GEN 22 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MAIL SERVICE IN THE CONSTRUCTION AREA.

GEN 23 ALL EXCAVATION ON THIS PROJECT IS UNCLASSIFIED. THE CONTRACTOR SHALL MAKE ALL EXCAVATION OF WHATEVER NATURE NECESSARY FOR CONSTRUCTION OF WATER LINES AND SEWERS AND THEIR APPURTENANT structures included in this project.

GEN 24 APPROVALS OF CONSTRUCTION PLANS IS CONTINGENT ON ALL EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE WORK BEING SECURED AND SHOWN ON THE FINAL PLAT FOR RECORDING. NO WORK THAT REQUIRES AN EASEMENT WILL BE ALLOWED TO PROCEED UNTIL THIS HAS BEEN DONE.

GEN 25 TWENTY-FOUR (24) HOUR ADVANCE NOTIFICATION IS REQUIRED FOR ALL WORK REQUIRING INSPECTION, TESTING, OR APPROVAL BY THE VILLAGE ENGINEER OR BUILDING DEPARTMENTS.

GEN 26 THE CONTRACTOR IS RESPONSIBLE TO NOTIFY THE VILLAGE ENGINEER AND REQUEST A FINAL PUNCH-OUT INSPECTION OF THE SITE ONCE ALL OF THE ITEMS ON THE APPROVED DEVELOPMENT PLANS HAS BEEN COMPLETED.

GEN 27 THE CONTRACTOR SHALL SUFFICIENTLY EXPOSE EACH UTILITY OR STRUCTURE INDICATED ON THE PLANS IN ADVANCE OF EXCAVATING TO DETERMINE IF A GRADE CONFLICT OCCURS. LOCATIONS SHOWN ARE APPROXIMATE ONLY. OTHER UTILITIES NOT MARKED MAY ALSO REQUIRE EXPOSING.

GEN 28 THE DEVELOPER IS RESPONSIBLE FOR HAVING ?AS-BUILT? CONSTRUCTION DRAWINGS SENT TO THE VILLAGE FNGINFER AFTER THE PROJECT HAS BEEN COMPLETED. THE PLANS MUST INCLUDE TOP-OF-CASTING AND FLOW-LINE ELEVATIONS FOR ALL SANITARY AND STORM STRUCTURES AND IDENTIFY ALL FIELD MODIFICATIONS TO THE APPROVED PLAN SET. THE "AS BUILT" DRAWINGS MUST ALSO INCLUDE STATE PLANE COORDINATES FOR ALL NEWLY CONSTRUCTED

GEN 29 ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE SHOWN ON

GEN 30 ALL SITE CLEARING SHALL BE PERFORMED BY THE OWNER AT HIS EXPENSE PRIOR TO CONSTRUCTION OF THIS PROJECT SUBJECT TO COMPLIANCE WITH THE VILLAGE OF ASHVILLE ZONING CODE.

GEN 31 AT ALL UTILITY CROSSINGS. THE BACKFILL SHALL CONSIST OF COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH C.M.S.C. ITEM 912 BETWEEN THE DEEPER AND SHALLOWER PIPE. WHERE PROPOSED UTILITIES OR SERVICES CROSS PROPOSED OR EXISTING PAVEMENT AREAS. BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH C.M.S.C. ITEM 912 EXTENDING AT LEAST THREE (3) FEET BEYOND THE BACK OF CURB OR EDGE OF PAVEMENT. THE COST IS TO BE INCLUDED IN THE PRICE BID FOR RELATED PIPE, C.M.S.C. ITEM 912 MAY BE SUBSTITUTED.

GEN 32 PRIOR TO THE CONSTRUCTION OF THE STREETS. SOIL TESTS SHALL BE MADE ON ALL SANITARY SEWER AND DESIGNATED STORM SEWER TRENCHES WHICH CROSS THE PROPOSED PAVEMENTS OR WHICH LIE SUCH THAT THE PROPOSED PAVEMENTS ARE LOCATED WITHIN ANY PART OF THE INFLUENCE LINE OF SAID TRENCH. WHERE SAID RESULTS INDICATED THAT THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF 912.03 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, ALL BACKFILL MATERIAL SHALL BE REMOVED, REPLACED AND RE-TESTED UNTIL COMPACTION MEETS REQUIREMENTS OF 912.03.

GEN 33 ALL SIDEWALKS, CURB ROMPS, AND CURBS AND GUTTERS SHALL MEET FEDERAL A.D.A. (AMERICANS WITH DISABILITIES ACT) REQUIREMENTS, LATEST EDITION.

GEN 34 ANY EXISTING PAVEMENT REMOVED FOR SANITARY SEWER, STORM SEWER OR WATERLINE PLACEMENT SHALL BE BACKFILLED AND COMPACTED TO A MAXIMUM DENSITY OF 100X OR WITH. CONTROLLED DENSITY FILL (CDF), REFERENCE CITY OF COLUMBUS ITEM 912 OR 636. IF CDF IS USED ALL DUCTILE OR COST IRON PIPE IN CONTACT WITH CDF SHALL BE POLY-WRAPPED IN ACCORDANCE WITH C-7484 OR AWWA C-105.

GEN 35 ANY TUNNELING OR BORING OF ANY PIPELINES SHALL BE IN ACCORDANCE WITH PLANS APPROVED BY THE VILLAGE ENGINEER.

GEN 36 DURING THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THESE PLANS, SEDIMENTATION AND EROSION CONTROL SHALL BE CONTROLLED IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH EPA STANDARDS WHERE NEEDED FOR THE DURATION OF THE PROJECT. ALL COSTS ASSOCIATED WITH SEDIMENTATION AND EROSION CONTROL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PIPE.

GEN 37 THE CONTRACTOR SHALL, PRIOR TO BIDDING, CAREFULLY STUDY THE GEOTECHNICAL REPORT, AS PROVIDED AS A PART OF THE BID DOCUMENTS, AND MAKE SITE VISITS TO SATISFY HIMSELF OF THE SITE CONDITIONS. THE CONTRACTOR SHALL. AS A PART OF HIS BID. SUBMIT A DETAILED DEWATERING PLAN THAT SHALL INCLUDE THE NUMBER AND SPACING OF WELL POINTS, THE SIZE OF PUMPS TO BE USED, THE POINTS OF DISCHARGE OF SAID DEWATERING OPERATIONS, AND ANY OTHER INFORMATION PERTINENT TO THE DEWATERING OF THE PROJECT. NO EXTRA PAYMENT SHALL BE MADE FOR DEWATERING, ALL COSTS FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ASSOCIATED ITEMS. BY SUBMITTING A BID THE CONTRACTOR IS STATING THAT HE CLEARLY UNDERSTANDS THE SCOPE OF THE DEWATERING FOR THE PROJECT AND HAS INCLUDED THIS WORK IN HIS UNIT PRICE BID FOR ASSOCIATED ITEMS.

GEN 38 THE CITY OF COLUMBUS STANDARD DRAWINGS SHALL GOVERN ALL PROJECTS UNLESS OTHERWISE NOTED.

GEN 39 THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATIONS AND RESTORE ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF

GEN 40 THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT OR THE EXISTING RIGHT-OF-WAYS, CONSTRUCTION, AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER.

GEN 41 THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION OFF-SITE OR MOUND FOR FUTURE SECTIONS MOUNDED MATERIAL SHALL BE DRESSED-UP, STABILIZED AND SEEDED ACCORDING TO SPECIFICATIONS. MOUNDS SHALL NOT EXCEED TO THE HEIGHT AND SHALL NOT INTERFERE WITH SITE DRAINAGE.

GEN 42 THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS NOT REPRESENTED, WARRANTED, OR GUARANTEED TO BE COMPLETE OR ACCURATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY LOCATE AND VERIFY, IN THE FIELD, ALL UTILITY LOCATIONS AND ELEVATIONS, WHETHER SHOWN ON THE PLAN OR NOT, PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SUPPORT, PROTECT, AND RESTORE ALL EXISTING UTILITIES AND THEIR ASSOCIATED ITEMS.

GEN 43 COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 IS REQUIRED OF ALL CONTRACTORS ON THIS PROJECT.

GEN 44 WHERE MANHOLES ARE LOCATED WITHIN STREET GRADING LIMITS, THE TOPS SHALL BE BUILT TO ELEVATIONS SHOWN OR ORDERED. ELSEWHERE MANHOLES SHALL BE BUILT OR SUBSEQUENT ADJUSTED TO MEET SURFACE GRADES ESTABLISHED FOR THE DEVELOPMENT. THE COST OF THE ADJUSTMENT IS TO BE INCLUDED IN THE PRICE BID FOR THE

GEN 45 THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIAL RESULTING FROM HIS OPERATION AND RESTORE ALL OTHER SURFACES, STRUCTURES, DITCHES, ON PUBLIC AND ADJACENT PROPERTY TO THERE ORIGINAL CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND THE DEVELOPER'S PROPERTY TO THEIR SATISFACTION. ALL COSTS FOR THIS WORK SHALL BE INCLUDED WITH THE PRICE BID FOR THE VARIOUS ITEMS.

RDW 1 ALL PAVEMENT SUB-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ITEM 203 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, THE SOILS REPORT AND AS DIRECTED BY THE REGISTERED SOILS ENGINEER PRESENT ON THE SITE. SECTION 203.12 SHALL BE MODIFIED SUCH THAT ALL COMPACTION SHALL BE TO ONE HUNDRED (100) PERCENT OF THE MAXIMUM DRY UNIT WEIGHT OBTAINED IN THE LABORATORY BY THE ?STANDARD PROCTOR? COMPACTION TEST (ASTM D698). MOISTURE CONTENT OF THE NEW FILL SHALL BE IN RANGE 10FWO (2)

PERCENT OF THE OPTIMUM MOISTURE CONTENT DETERMINED BY AST D698.

RDW 2 PRIOR TO CONSTRUCTION OF THE STREETS, SOIL TESTS SHALL BE MADE ON ALL SANITARY SEWER AND DESIGNATED STORM SEWER TRENCHES WHICH CROSS PROPOSED PAVEMENTS OR WHICH LIF SUCH THAT THE PROPOSED PAVEMENTS ARE LOCATED WITHIN ANY PART OF THE INFLUENCE LINE OF SAID TRENCH. WHERE SAID RESULTS INDICATE THAT THE TRENCH BACKFILL DOES NOT MEET THE COMPACTION REQUIREMENTS OF 912.03 (MINIMUM OF 100 % OF MAXIMUM LABORATORY DENSITY) OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, ALL BACKFILL MATERIAL SHALL BE REMOVED, REPLACED, AND RE-TESTED UNTIL COMPACTION MEETS SAID REQUIREMENTS OF 912.03.

RDW 2 ALL PAVEMENT JOINTS, PARTICULARLY WHERE A PROPOSED PAVEMENT ABUTS AN EXISTING PAVEMENT, AND ALL PAVEMENT JOINTS ABUTTING UTILITY STRUCTURES SUCH AS MANHOLES, CATCH BASINS, VALVE BOXES, ETC. SHALL BE SEALED IN ACCORDANCE WITH ITEM 413 TYPE (1) OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL

RDW 3 THE CONTRACTOR SHALL CONTACT THE COLUMBIA GAS OF OHIO, INC. OPERATIONS SUPERVISOR AT 614-818-2109 ONE (1) WEEK PRIOR TO ROADWAY CONSTRUCTION FOR THE DELIVERY OF PVC GAS SLEEVES OR COLUMBUS SOUTHERN POWER COMPANY ENGINEERING LIAISON COORDINATOR AT 614-464-7379 FOR ELECTRIC CONDUIT SLEEVES.

RDW 4 AT THE OPTION OF THE DEVELOPER OR THE VILLAGE, THE PLACEMENT OF THE FINAL WEARING COURSE OF ITEM 404 ASPHALT CONCRETE MAY BE DELAYED UNTIL SUCH TIME THAT THE MAJORITY OF THE RESIDENTIAL HOUSING CONSTRUCTION IN THE AREA IS COMPLETE OR WEATHER PERMITS.

RDW 5 WEARING COURSE OF ASPHALT CONCRETE IS TO MEET CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATION ITEM 404 AND ADDITIONAL MIX DESIGN REQUIREMENTS OF THE VILLAGE OF ASHVILLE.

RDW 6 PAVEMENT CUTS FOR UTILITY LINE INSTALLATIONS ARE SUBJECT TO THE BACKFILL REQUIREMENTS OF ITEM 912 IN LIEU OF COMPACTED GRANULAR MATERIAL. FLOWABLE CONTROLLED DENSITY FILL. ITEM 636 TYPE-11 MAY BE USED. PAVEMENT SHALL BE CONSTRUCTED TO MATCH THE EXISTING SECTION OR NINE INCHES OF ITEM 404 ASPHALT CONCRETE, WHICHEVER IS GREATER. AS AN OPTION, THE CONCRETE BASE EXTENDING ONE (1) FOOT BEYOND EITHER EDGE OF THE EXCAVATION, WITH TWO (2) INCHES OF ITEM 404 ASPHALT WEARING COURSE PLACED ON TOP.

RDW 7 STEEL PLATES SHALL BE POSITIONED AND SECURED IN PLACE WITH STEEL SPIKES AND COLD PATCH ASPHALT MIX OVER ALL TRENCHES THAT ARE LEFT OPEN ON A TEMPORARY BASIS AND SUBJECT TO TRAFFIC.

RDW 8 VILLAGE STREETS ARE TO BE KEPT CLEAN AND FREE FROM MUD, STONE, DIRT, ETC. A TEMPORARY CONSTRUCTION ENTRANCE COMPRISED OF A 20' X 50' MAT OF NUMBER 2 STONE IS TO BE MAINTAINED AT ALL SITE ENTRANCES.

RDW 9 CONCRETE CURBS ARE TO BE BRANDED DURING PLACEMENT UTILIZING THE STANDARD BRAND SET PROVIDED BUY THE VILLAGE OF ASHVILLE ENGINEER. BRAND CURBS ARE AS FOLLOWS:

"S" — ON TOP OF CURB FOR SANITARY LATERAL LOCATIONS "W" — ON FACE OF CURB FOR WATER SERVICE BOX LOCATIONS.

"WV" - ON FACE OF CURB FOR HYDRANT WATCH VALVE LOCATIONS. "WM" — ON FACE OF CURB FOR WATER MAIN VALVE LOCATIONS.

Brands that are missed must be mechanically grounded into curb after the concrete is set.

RDW 10 THE COMBINATION CURB AND GUTTER SHALL BE PLACED CONTINUOUSLY. DRIVEWAY KNOCK DOWNS SHALL BE SAW-CUT AT THE TIME EACH INDIVIDUAL RESIDENT IS CONSTRUCTED.

RDW 11 MONUMENT BOXES SHALL BE INSTALLED AT INTERSECTIONS DESIGNATED ON THE PLAN. BOXES SHALL BE NFFNAH R-1968. TYPE 36-8 OR FAST JORDAN IRON WORKS NUMBER 8371, MONUMENTS ARE TO BE SET IN A CONCRETE FILLED TWENTY-FOUR (24) INCH DIAMETER CORED HOLE, FLUSH WITH THE TOP OF THE PAVEMENT PER VILLAGE

RDW 12 ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS" COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 25 SOUTH FRONT STREET, COLUMBUS, OHIO 43215.

RDW 13 LANE RESTRICTIONS OR CLOSURES REQUIRED DURING CONSTRUCTION MUST BE APPROVED BY THE VILLAGE OF ASHVILLE ENGINEER AND SERVICE DEPARTMENTS A MINIMUM OF TWO (2) WEEKS PRIOR TO ANY WORK BEING PERFORMED. OTHERWISE, TRAFFIC LANES SHALL BE FULLY OPEN TO TRAFFIC AT ALL TIMES AND INGRESS AND EGRESS SHALL BE MAINTAINED TO PUBLIC AND PRIVATE PROPERTY.

RDW 14 THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR THE PROVISION AND SCHEDULING OF PERSONNEL FOR CONCRETE, ASPHALT, AND SOILS TESTING PROCEDURES AS REQUIRED BY THE VILLAGE ENGINEER, TESTING IS TO BE PERFORMED BY REGISTERED TESTING PROCEDURES AS REQUIRED BY THE VILLAGE ENGINEER. TESTING IS TO BE PERFORMED BY A REGISTERED TESTING AGENCY THAT IS APPROVED BY THE VILLAGE ENGINEER.

RDW 15 THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR THE PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PROVIDED WHETHER INSIDE OR OUTSIDE OF THE WORK LIMITS BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF TRAFFIC CONTROL SERVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS (CURRENT EDITION). COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPARTMENT OF TRANSPORTATION, OFFICE OF TRAFFIC ENGINEERING.

RDW 16 THE TRACKING OF SPILLAGE OF MUD, DIRT OR DEBRIS UPON VILLAGE STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

RDW 17 NO NON-RUBBER TIRE VEHICLE SHALL BE MOVED ON VILLAGE STREETS. EXCEPTIONS MAY BE GRANTED BY AN AUTHORIZED VILLAGE OFFICIAL WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE

RDW 18 STEADY BURNING TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS AND SIMILAR TRAFFIC DEVICES IN USE AT NIGHT. CONES ARE NOT PERMITTED TO BE USED FOR NIGHT WORK.

RDW 19 ALL TRAFFIC LANES SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 6:00 P.M., UNLESS OTHERWISE APPROVED BY THE VILLAGE. ONE LANE MAY BE CLOSED TO TRAFFIC DURING WORKING HOURS, DURING SANITARY SEWER BORING OPERATION.

RDW 20 THE PAVEMENT SHALL BE REPLACED BY FIRST REMOVING THE TEMPORARY PAVEMENT DOWN TO THE CLEAN GRANULAR MATERIAL AND REMOVING THE EXISTING PAVEMENT FOR AT LEAST 12 INCHES BEYOND THE TRENCH LIMITS ON EACH SIDE. THE PAVEMENT TO BE REMOVED SHALL BE NEATLY SAWED. NOT MORE THAN 24 HOURS PRIOR TO THI PLACING OF PERMANENT PAVEMENT MATERIALS. THE PERMANENT PAVEMENT MATERIALS AND WORKMANSHIP SHALL BE AT LEAST EQUIVALENT TO THE EXISTING PERMANENT PAVEMENT REPLACED, AS DETERMINED BY THE ENGINEER. AFTER REMOVAL OF THE TEMPORARY PAVEMENT AND SAWING OF THE EXISTING PAVEMENT EDGES, ITEM 407 TACK COAT SHALL BE APPLIED TO THE EXPOSED EXISTING PAVEMENT EDGES, AND TO THE BASE MATERIAL, PRIOR TO THE PLACING OF THE PERMANENT PAVEMENT.

RDW 21 ALL TRENCHES IN THE ROADWAY SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

RDW 22 IN THE EVENT EXCAVATION FOR THE STREET IS FROM ZERO (0) INCHES TO TWELVE (12) INCHES BELOW WHAT IS CALLED FOR ON THE PLANS THE CONTRACTOR SHALL REPLACE THIS EXCESS EXCAVATED MATERIAL AS DIRECTED BY THE GEOTECHNICAL ENGINEER. ITEM 310 OR 304 AS DIRECTED AND AT NO EXTRA COST TO THE OWNER.

RDW 23 WHERE NECESSARY TO DISTURB EXISTING PAVEMENT OR DRIVES, THE PAVEMENT SHALL BE SAW CUT IN NEAT, STRAIGHT LINES. THE DEPTH OF SAW CUT SHALL BE AT LEAST TWO (2) INCHES.

SAS 1 ALL SEWERS. APPURTENANCES. AND METHODS OF CONSTRUCTION AND WORKMANSHIP FOR SEWERS AND APPURTENANCES SHOWN ON THESE PLANS SHALL CONFORM TO THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATION DIVISION 900 AND APPLICABLE REFERENCES THEREIN. CURRENT ON THE DATE OF THE CONTRACT, UNLESS THE REQUIREMENTS OF SUCH RULES AND REGULATIONS ARE UPGRADED OR MODIFIED BY THE FOLLOWING NOTES OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

SAS 2 SANITARY SEWER LEAKAGE TESTING; LEAKAGE TESTING: LEAKAGE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 901.20 AND SHALL INCLUDE MAIN SEWER, MANHOLES AND SERVICE CONNECTIONS DURING THE CONSTRUCTION OF THE SEWER AND MANHOLES GROUND WATER LEVELS SHALL BE OBSERVED AND REPORTED IN A SUITABLE LOG GROUND WATER ORSERVATION PIPES SHALL BE INSTALLED IN MANHOLES AS FOLLOWS FOR THE PURPOSE OF MONITORING GROUND WATER LEVELS PREVAILING OVER THE PROJECT AT THE TIME OF LEAKAGE TESTING. THESE MANHOLES ARE MHS 2, 5, 7, 10, 13, 14, 17 AND 19.

SAS 3 THE CONTRACTOR'S SPECIFIC ATTENTION IS DIRECTED TO THE REQUIREMENTS OF EITHER THE INFILTRATION OR EXFILTRATION AS SPECIFIED BY THE VILLAGE OF ASHVILLE. LEAKAGE THROUGH THE JOINTS OF THE SEWER SHALL NOT EXCEED THE FOLLOWING ALLOWARDE LIMITS: ONE HUNDRED (100) GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER TWENTY FOUR (24) HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT FOR SHORTER LENGTHS AND SHORTER PERIODS OF TIME. ALL SANITARY SEWERS AND SERVICES SHALL BE TESTED. ALL SANITARY SEWERS SHALL BE SUBJECT TO AND PASS THE INFILTRATION OR EXFILTRATION TEST PRIOR TO ACCEPTANCE. AN AIR TEST IS ACCEPTABLE TO THE VILLAGE OF ASHVILLE. THIS AIR TEST SHALL BE PERFORMED ACCORDING TO THE CURRENT REGULATIONS OF THE VILLAGE'S ENGINEERING DEPARTMENT.

SAS 4 CLEAN WATER CONNECTIONS INCLUDING ROOF DRAINS, FOUNDATION DRAINS, SUMPS, ETC. ARE PROHIBITED FROM BEING CONNECTED TO THE SANITARY SEWER.

SAS 5 MATERIAL: UNLESS OTHERWISE INDICATED ON THE PLANS, SEWERS AND SERVICES ARE TO BE SUPPLIED WITH MATERIAL CONFORMING TO ITEM 901 CMSC. POLYVINYL CHLORIDE (PVC) PLASTIC PIPE: ITEM 720.08 PIPE SHALL CONFORM TO ASTM D-3034 SDR 35 FOR SIZES 6", 8", 10", 12" AND 15". FITTINGS SHALL ALSO CONFORM TO ASTM F-1336. POLYVINYL CHLORIDE (PVC) LARGE DIAMETER PLASTIC PIPE: ITEM 720.08. THE PIPES AND FITTINGS SHALL

CONFORM TO ASTM F-679 FOR SIZES 18" THROUGH 36". SAS 6 PIPES FOR ALL 6" SERVICES SHALL BE PVC SEWER PIPE CONFORMING TO REQUIREMENTS OF ASTM D-3034, SDR 35. THESE SERVICES ARE ALL SUBJECT TO LEAK TESTING. SERVICES EXTENSIONS SHALL BE INSTALLED AT A MINIMUM GRADE OF 1/4" PER FOOT AND SHALL BE CONSTRUCTED AT THE TIME OF CONSTRUCTING THE MAIN SEWER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SAS 7 THE MINIMUM REQUIREMENT FOR SEWER PIPE ON THIS PROJECT SHALL BE SDR35, ASTM D3034 POLYVINYL CHLORIDE (PVC) SEWER PIPE WITH ASTM C1784 CELL CLASSIFICATION OF 12454 B OR 12454 C, UNLESS OTHERWISE SHOWN ON THE PLANS.

SAS 8 ALL PVC PIPE SHALL BE DEFLECTION TESTED THIRTY (30) DAYS OR MORE AFTER THE TRENCH HAS BEEN BACKFILLED TO FINISHED GRADE. THE TESTING SHALL BE DONE IN ACCORDÁNCE WITH ITEM 901.21 CMSC. A RIGID MANDREL PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER SHALL BE USED FOR THE TESTING. NO MECHANICAL PULLING DEVICES SHALL BE USED. PIPE DEFLECTION SHALL NOT EXCEED FIVE (5) PERCENT. AN ACCURATE LOG OF THE SEWER INSTALLATION SEGMENTS AND DATES SHALL BE KEPT BY THE CONTRACTOR.

SAS 9 6'-0" LONG CLAY DAMS ARE TO BE INSTALLED ALONG MAIN LINE SEWERS IN ACCORDANCE WITH ITEM 901.11 CMCS AT HALF THE DISTANCE BETWEEN EACH PAIR OF MANHOLES. BUT NO CLOSER THAN TEN (10) FEET FROM A LATERAL SERVICE, COST TO BE INCLUDED WITH CARIOUS SEWER ITEMS.

SAS 10 6'-0" LONG CLAY DAMS ARE TO BE INSTALLED ON ALL SANITARY LATERAL SEWERS BUT NO CLOSER THAN FIVE (5) FEET FROM THE END OF THE SERVICE. DAMS ARE TO BE INSTALLED BY SITE UTILITY CONTRACTOR WITH THE COST TO BE INCLUDED WITH VARIOUS SEWER ITEMS.

SAS 11 PUBLIC SANITARY MANHOLE COVERS ARE TO BE EAST JORDAN IRON WORKS NO. 1660-A2 OR EQUIVALENT AND EMBOSSED "VILLAGE OF ASHVILLE SANITARY SEWER".

SAS 12 ALL SANITARY MANHOLES AND LATERAL SERVICES ARE TO BE MARKED WITH A 4"X4"X10'-0" PRESSURE TREATED

WOOD POST WITH 4'-0" PROJECTING ABOVE THE FINISHED GRADE AND WITH THE TOP 1'-0" PAINTED GREEN ON FOUR (4) SIDES. ADDITIONALLY A 2"X2" HARDWOOD WYE POLE IS TO BE WIRED TO THE BASE OF EACH 4"X4" POLE AND EXTENDED DOWN TO THE END OF EACH LATERAL SERVICE. COST TO BE INCLUDED IN THE VARIOUS ITEMS. SAS 13 WHERE THE COVER TO FINISHED GRADE OVER A SANITARY WYE IS IN EXCESS OF TWELVE (12) FEET, A LENGTH OF

RISER PIPE AND A FORTY—FIVE (45) DEGREE BEND SHALL BE INSTALLED ALONG WITH A MINIMUM OF ONE WHOLE LENGTH

OF SIX (6) INCH PIPE SUCH THAT THE END OF THE SERVICE WILL BE TEN (10) FEET BELOW GRADE. ALL SANITARY LINES

AND SERVICES ARE TO BE DESIGNED AND INSTALLED SO AS TO PROVIDE BASEMENT SERVICE.

SAS 14 WHERE THE SANITARY SEWER CROSSES UNDER A PROPOSED STORM SEWER OR WATERLINE THE TRENCH SHALL BE BACKFILLED TO THE BOTTOM OF THE PROPOSED STORM SEWER OR WATERLINE WITH COMPACTED GRANULAR MATERIAL AS PER ITEM 912. FOR A LENGTH OF TWENTY (20) LINEAR FEET CENTERED ON THE STORM SEWER OR WATERLINE. THE COST OF THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SEWER ITEMS.

SAS 15 PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY MANHOLE CONSTRUCTION AND TOP-OF-CASTING ELEVATION. MANHOLES SHALL BE BUILT OR ADJUSTED SO THE TOPS CONFORM TO THE ELEVATIONS SHOWN ON THESE PLANS. ALL MANHOLE CASTING ADJUSTMENTS SHALL BE ACCOMPLISHED WITH PRE-CAST CONCRETE ADJUSTMENT

SAS 16 ALL PIPES SHALL BE INSTALLED WITH STONE OR GRAVEL BEDDING AS SHOWN IN THE STANDARD DRAWINGS.

SAS 17 SANITARY TRENCH DETAILS SHALL BE IN ACCORDANCE WITH THE CITY OF COLUMBUS STANDARD DRAWINGS AA-S149 UNLESS OTHERWISE INDICATED BY VILLAGE OF ASHVILLE STANDARD DRAWINGS. ALL PIPES SHALL BE INSTALLED WITH STONE OR GRAVEL TYPE BEDDING.

SAS 18 TEMPORARY BULKHEADS SHALL BE PLACES WHERE INDICATED ON THE PLANS AND SHALL REMAIN IN PLACE UNTIL REMOVAL IS DIRECTED BY THE VILLAGE ENGINEER.

SAS 19 SANITARY LATERALS INSTALLED IN A COMMON TRENCH ARE TO BE INSTALLED WITH A MINIMUM 2'-0" CENTER TO CENTER SEPARATION OF PIPES IN A 4'-0" MINIMUM TRENCH WITH A 1'-0" MINIMUM BEDDING AROUND PIPES. PIPE ENDS ARE TO BE FLARED TO A MINIMUM 10'-0" CENTER TO CENTER SEPARATION OF PIPES AT 5'-0" FROM THE PROPERTY LINE

SAS 20 A PERMANENT FLEXIBLE WATER JOINT SEALANT BETWEEN THE TOPS OF SANITARY MANHOLES AND MANHOLE CASTINGS SHALL BE INSTALLED. SEALANT TO BE "CONSEAL" AS MANUFACTURED BY CONCRETE SEALANTS, INC. NEW CARLISLE, OHIO OR APPROVED EQUAL.

SAS 21 EACH MANHOLE SHALL BE PROVIDED WITH A "CHIMNEY SEAL" CONSISTING OF A TRIPLE PLEATED RUBBER SLEEVE HAVING A MINIMUM THICKNESS OF 3/16 INCH, A MINIMUM UNEXPANDED VERTICAL HEIGHT OF EIGHT (8) INCHES, CAPABLE OF EXPANDING NOT LESS THAN TWO (2) INCHES VERTICALLY WHEN INSTALLED, EQUIPPED WITH SIXTEEN (16) GAUGE BY 1-3/4 INCH WIDE A.S.T.M. STAINLESS STEEL TYPE 304 EXPANSION BANDS, THE ENTIRE UNIT AS MANUFACTURED BY CRETEX SPECIALTY PRODUCTS OR APPROVED EQUAL.

SAS 22 NO FLOW MAY BE DIVERTED INTO THE NEW OR EXISTING SEWER UNTIL THEY HAVE BEEN INSPECTED, TESTED, AND APPROVED FOR USE. WRITTEN APPROVAL FOR SUCH USE SHALL BE OBTAINED FROM THE VILLAGE OF ASHVILLE.

SANITARY AND STORM SEWER NOTES STM/SAS 1 ROOF DRAINS. FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED ON THIS PROJECT.

STM/SAS 2 ALL SANITARY SEWERS CONSTRUCTED UNDER THIS PLAN SHALL MEET THE REQUIREMENTS OF THE VILLAGE OF

STM/SAS 3 THE CONSTRUCTION OF NEW SANITARY SEWERS OR WATERLINES SHALL NOT BEGIN UNTIL THE VILLAGE RECÉIVES AN APPROVED AND CURRENT OHIO ENVIRONMENTAL PROTECTION AGENCY PERMIT TO INSTALL (PTI), OR A

ashville, unless otherwise noted.

FURNISHING AND INSTALLING PIPE.

STM/SAS 4. THERE SHALL BE NO SANITARY SEWER INSTALLED IN REAR OR SIDE LOT EASEMENTS WITHOUT PRIOR WRITTEN APPROVAL FROM THE VILLAGE OF ASHVILLE WASTEWATER SUPERINTENDENT.

STM/SAS 5 THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE SHALL BE PVC SEWER PIPE ASTM D-3034, SDR 35

STM/SAS 6 THE MINIMUM REQUIREMENT FOR STORM SEWER PIPE SHALL BE: 8" THROUGH 36" HIGH DENSITY POLYETHYLENE N-12 OR EQUAL HIGH DENSITY POLYETHYLENE PIPE WITH SMOOTH INTERIOR WAIL. STORM DRAINS LARGER THAN 36" SHALL MEET THE REQUIREMENTS OF AASHTO M-294-S. REINFORCED CONCRETE RCP MAY BE SPECIFIED BY THE ENGINEER WHEN THEY DEEM NECESSARY.

STM/SAS 7 ALL TRENCH BACKFILL SHALL BE COMPACTED BACKFILL AS PER CMSC ITEM 911. THE COST OF OIL COMPACTED BACKFILL SHALL BE INCLUDED IN THE PRICE BID FOR FURNISHING AND INSTALLING PIPE. THE CONTRACTOR IS HEREBY NOTIFIED THAT THE CMSC FOR ASHVILLE REQUIRES THE USE OF NUMBER 57 CRUSHED LIMESTONE ROUND GRAVEL FOR

STM/SAS 8 IN ADDITION TO THE REQUIREMENTS OF CMSC ITEM 901.08 AS IT REFERS TO COMPACTED BACKFILL, THERE MAY BE AREAS ON THE PLANS WITH THE LIMITS INDICATED ON THE PROFILE VIEW OF THE SEWER AS "COMPACTED GRANULAR BACKFILL". THESE AREAS WILL BE COMPACTED TO MEET THE REQUIREMENTS OF CMSC ITEM 912.03. PAYMENT FOR THE COMPACTION OF BACKFILL WITHIN THESE AREAS SHALL BE INCLUDED IN THE PRICE BID FOR

STM/SAS 9 ALL BEDDING OF SANITARY SEWER PIPE SHALL CONFORM TO THE TYPICAL TRENCH DETAIL.

STM/SAS 10 THE CONTRACTOR'S SPECIFIC ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE LEAKAGE TEST. ALL SANITARY SEWERS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH 901.20 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. THIS IS AN EXFILTRATION WATER TEST. AN AIR TEST IS PERMITTED AS DIRECTED BY THE VILLAGE OF ASHVILLE. AN INFILTRATION TEST MAY BE REQUIRED IN AREAS OF HIGH GROUNDWATER.

STM/SAS 11 PIPE FOR ALL SIX (6) INCH HOUSE SERVICES SHALL BE PVC SEWER PIPE, ASTM D-3034, SDR 35. ALL SERVICE EXTENSIONS SHALL BE LAID AT A 'MINIMUM GRADE OF TWO (2) PERCENT AND SHALL BE CONSTRUCTED AT THE TIME OF CONSTRUCTION OF THE MAIN SEWER, UNLESS OTHERWISE DIRECTED BY THE VILLAGE ENGINEER.

STM/SAS 12 CONNECTIONS BETWEEN EXISTING AND PROPOSED SERVICE LINES SHALL BE COMPLETED USING A FOUR (4) INCH OR SIX (6) INCH FERNCO, INC. DONUT OR BOOT. STM/SAS 13 A WYE POLE MADE OF 4" BY 4" LUMBER SHALL BE FURNISHED AND PLACED AT ALL WYE BRANCHES AND AT

THE END OF EXTENDED SERVICE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE SEWER ITEMS. STM/SAS 14 ALL SANITARY SEWER LINES INSTALLED USING PVC PIPE WILL BE. SUBJECT TO DEFLECTION TESTING BY PULLING AN APPROVED MANDREL EQUAL IN DIAMETER TO 95% OF THE PIPE DIAMETER THROUGH THE PIPE NO LESS

STM/SAS 15 THE WYE LOCATIONS SHOWN ON THE PLANS ORE APPROXIMATE AND SHALL BE FIELD LOCATED DURING CONSTRUCTION TO SERVE THE INDIVIDUAL STRUCTURES.

STM/SAS 16 MANHOLE COVERS FOR SANITARY SEWERS SHALL CONFORM TO VILLAGE OF ASHVILLE STANDARD

STM/SAS 17 MANHOLE TOPS SHALL BE BUILT OR SUBSEQUENTLY ADJUSTED TO MEET SURFACE GRADES ESTABLISHED FOR

THE DEVELOPMENT. COST OF THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SEWER ITEMS.

STM/SAS 18 ALL SANITARY SEWER LINES SHALL END WITH MANHOLES.

STM/SAS 19 ALL NEW SANITARY SEWER AND STORM DRAIN MANHOLES INSTALLED IN THE VILLAGE OF ASHVILLE SANITARY SEWER AND STORM DRAIN SYSTEMS SHALL BE AS FOLLOWS:

THAN (30) DAYS AFTER THE PIPE IS BACKFILLED.

*PRE-CAST CONCRETE *FOUR (4) FOOT DIAMETER, MINIMUM

CENTER OF THE MANHOLE BASE.

*INSTALLED WITH FORMED CHANNELS STM/SAS 20 ALL NEW SANITARY SEWER MANHOLES AND EXISTING SANITARY MANHOLES ADJUSTED TO GRADE SHALL BE

CONSTRUCTED WITH CHIMNEY SEALS AND DISH IN ACCORDANCE WITH VILLAGE OF ASHVILLE SPECIFICATIONS. STM/SAS 21 ALL NEW MANHOLES AND EXISTING MANHOLES ADJUSTED TO GRADE SHALL HAVE CONCRETE COLLARS.

STM/SAS 22 SANITARY SEWER--MANHOLE CONNECTIONS: THE SANITARY SEWER PIPE TO MANHOLE CONNECTIONS SHALL BE OF A FLEXIBLE WATERTIGHT JOINT OF APPROVED MANUFACTURE. THE JOINT MAY BE OF THE FOLLOWING DESIGN (A) RUBBER SLEEVE WITH STAINLESS STEEL BANDING, (B) RUBBER GASKET COMPRESSION, OR (C) RUBBER GASKET

STM/SAS 23 MANHOLE LOCATIONS: THE STATION AND OFFSET OF THE MANHOLES SHOWN ON THE PLANS ARE TO THE

STM/SAS 24 THE MAXIMUM TRENCH WIDTH SHALL NOT BE GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE PLUS

STM/SAS 25 THE CONTRACTOR SHALL MAKE PROVISIONS TO MAINTAIN FLOWS IN THE EXISTING SEWER AT ALL TIMES -DURING CONSTRUCTION METHODS FOR MAINTAINING

STM/SAS 26 ALL SANITARY SEWERS SHALL BE RECORDED IN DVD FORMAT AFTER CONSTRUCTION PRIOR TO ACCEPTANCE OF THE SEWERS BY THE VILLAGE OF ASHVILLE. THE DVD SHALL REMAIN THE PROPERTY OF THE VILLAGE OF ASHVILLE. THE DVD SHALL CLEARLY IDENTIFY THE LOCATION OF THE CAMERA WITHIN THE SEWER, DATE AND TIME OF THE DVD AND BE OF SUFFICIENT QUALITY TO DETERMINE THE CONDITIONS OF THE SANITARY SEWERS. AN ADDITIONAL DVD SHALL BE PERFORMED JUST PRIOR TO THE EXPIRATION OF THE ONE (1) YEAR WARRANTY PERIOD.

STM/SAS 27 THE MAXIMUM VELOCITY IN ANY NEW SANITARY SEWER SHALL NOT EXCEED TEN FEET PER SECOND (10 FPS).

STM/SAS 28 TESTING OF LATERAL CONNECTIONS SHALL BE ADHERED TO.

DURING CONSTRUCTION METHODS FOR MAINTAINING FLOWS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. AT NO TIME WILL SANITARY SEWAGE BE ALLOWED TO DISCHARGE TO ANY RIVER OR STREAM NOR SPILL OUT ON THE GROUND, APPROVAL OF PLANS BY THE FNGINFER TO MAINTAIN FLOWS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY TO ADEQUATELY PROVIDE FOR ALL FLOWS. THE CONTRACTOR SHALL BE AWARE THAT THE EXISTING SEWERS MAY BE OPERATING UNDER PRESSURE (HEAD) DURING TIMES OF RAINFALL: THEREFORE THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING ON THESE SEWERS. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE ITEM BID FOR FURNISHING AND INSTALLING PIPE.

STM/SAS 29 THE CONTRACTOR SHALL MAKE PROVISIONS TO MAINTAIN FLOWS IN THE EXISTING SEWER AT ALL TIMES -

STM/SAS 30 THE CONTRACTOR SHALL SUBMIT TO THE DESIGN ENGINEER AND THE VILLAGE ENGINEER FOR HIS OR HER REVIEW. FIVE COPIES OF SHOP DRAWINGS FOR ALL MATERIALS. STRUCTURES. GRADATION CERTIFICATIONS AND EQUIPMENT BEFORE ANY OF THE SAID MATERIALS, STRUCTURES OR EQUIPMENT IS ORDERED. THE OWNER NOR VILLAGE BARE ANY RESPONSIBILITY TO ACCEPT ANY OF THE ABOVE MENTIONED ITEMS WITHOUT A COMPLETED REVIEW OF SAID SHOP DRAWINGS. SHOP DRAWINGS SHALL BE APPROVED BY THE DESIGN ENGINEER PRIOR TO SUBMITTAL TO THE VILLAGE ENGINEER. THESE DOCUMENTS SHALL BE BOUND AND INDEXED WITH NUMBERED SHEETS FOR EACH ITEM OR PAGES NUMBERED THROUGHOUT.

STM/SAS 31 THE MINIMUM CLEARANCE BETWEEN SANITARY AND WATER MAINS SHALL BE TEN (10) FEET HORIZONTAL OR ONE(1) FOOT SIX (6) INCHES VERTICAL OUTSIDE OF PIPE TO OUTSIDE OF PIPE. STM 1 THE MINIMUM REQUIREMENTS FOR STORM SEWER PIPE WITH THE VILLAGE RIGHT-OF-WAY OR EASEMENTS SHALL BE REINFORCED CONCRETE PIPE ASTM C655 OR ASTM C76 AND NON-REINFORCED CONCRETE PIPE ASTM C14 OR CORRUGATED POLYETHYLENE SMOOTH LINES M-294, TYPES S, AS PER OHIO DEPARTMENT OF TRANSPORTATION

CONSTRUCTION AND MATERIAL SPECIFICATIONS ITEM 707. STM 2 FLEXIBLE STORM SEWERS ARE SUBJECT TO MANDREL TESTING AND/OR VIDEO INSPECTION AS DIRECTED BY THE VILLAGE ENGINEER. TESTING SHALL BE PERFORMED NO SOONER THAN THIRTY (30) DAYS AFTER THE PIPE TRENCH HAS BEEN BACKFILLED AND ALL ROADWAY AND SITE FILLS OVER THE STORM LINES HAVE BEEN CONSTRUCTED. MAXIMUM

DEFLECTION SHALL NOT EXCEED 7.5% OF THE BASE INSIDE DIAMETER. COST OF TESTING SHALL BE AT THE EXPENSE OF

STM 3 ALL STORM MANHOLES SHALL BE MARKED WITH A 4" X 4" X 10' - 0" PRESSURE TREATED WOODEN POST PROJECTING 4' - 0" ABOVE THE FINISHED GRADE AND WITH THE TOP 1' - 0" PAINTED GREEN ON FOUR SIDES.

STM 4 THE COST OF ANY DEWATERING OPERATIONS REQUIRED FOR THE CONSTRUCTION OF THE STORM SEWER SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SEWER ITEMS.

STM 5 THE COST OF ANY ROCK EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE STORM SEWER. THE BIDDER SHALL DETERMINE IF ANY ROCK EXCAVATION WILL BE REQUIRED AND ADJUST THEIR BIDS ACCORDINGLY.

STM 6 THE FLOW IN ALL SEWERS, DRAINS, AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.

STM 7 ALL MAJOR FLOOD ROUTES AND DETENTION BASINS ARE TO BE SURVEYED BY A REGISTERED SURVEYOR TO VERIFY CONFORMANCE TO THE APPROVED GRADING PLAN. COST OF THIS WORK SHALL BE AT THE EXPENSE OF THE

STM 8 EROSION CONTROL MEASURES ARE TO BE INSTALLED BY THE CONTRACTOR DURING CONSTRUCTION TO PROTECT CATCH BASINS AND CURB INLETS FROM SILT, MUD, AND DEBRIS.

FLOW LINE GRADE OF TWO (2) PERCENT, AND A MAXIMUM SIDE SLOPE OF 4:1. STM 10 ALL CATCH BASINS, MANHOLES, AND CURB INLETS SHALL HAVE CONCRETE CHANNELS POURED IN PLACE TO

STM 9 ALL DRAINAGE FLOOD ROUTES, SWALES, AND DITCHES ARE TO BE DESIGNED AND GRADED WITH A MINIMUM

ASSURE POSITIVE DRAINAGE THROUGH THESE STRUCTURES.

of castings should be set at $1 - \frac{1}{2}$ " above finished grade.

STM 11 PUBLIC STORM SEWER MANHOLE LIDS ARE TO BE EAST JORDAN IRON WORKS NUMBER 1660 - A2 OR EQUIVALENT AND EMBOSSED "VILLAGE OF ASHVILLE STORM SEWER".

STM 12 STORM SEWER CURB INLETS ARE TO BE ADJUSTED WITHIN 1/4" OF PLAN ELEVATION USING STEEL SHIMS. STM 13 PRE-CAST RINGS ARE TO BE USED FOR ALL FINAL ADJUSTMENTS OF MANHOLE CASTINGS. STORM MANHOLE TOP

STM 14 OPENINGS SHALL BE PROVIDED IN DRAINAGE STRUCTURES TO ACCOMMODATE UNDER DRAIN OUTLETS. UNDER DRAINS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAILS GIVEN IN THE PLANS.

WML 1 ALL WATERLINE SERVICE SADDLES SHALL BE DOUBLE BOLT STAINLESS STEEL STYLE 306 AS MANUFACTURED BY ROMAC, OR EQUAL.

WML 2 LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL WATER LINES, SERVICES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SLIBMIT HIS DETAILS AND METHODS OF SUPPORTING THE WATER LINES ACROSS THE SEWER TRENCH TO THE ENGINEER FOR APPROVAL BY THE WATER DEPARTMENT. SUPPORT METHOD AND DETAIL APPROVAL SHALL BE SECURED PRIOR TO THE COMMENCEMENT OF

WML 3 WATER MAINS SHALL, WHERE POSSIBLE, BE DEFLECTED AROUND STRUCTURES WITHOUT THE USE OF SPECIAL FITTINGS AND WITHOUT EXCEEDING THE MANUFACTURER'S ALLOWABLE DEFLECTION.

WML 4 THE CONTRACTOR SHALL HAND SWAB ALL PIPE AND FITTINGS THAT ARE NOT OTHERWISE DISINFECTED. THE

ASHVILLE, WATER DEPARTMENT. WML 5 ANY TESTING PERFORMED AGAINST EXISTING VALVES SHALL BE DONE AT THE CONTRACTOR'S RISK AND IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE ENGINEER. IF SATISFACTORY TEST RESULTS CANNOT BE OBTAINED AGAINST AN EXISTING VALVE, THE NEW LINE SHALL BE DISCONNECTED FROM THE EXISTING LINE, PLUGGED AND

AMOUNT OF CHLORINE TO BE USED DURING HAND SWABBING OPERATIONS SHALL BE DETERMINED BY THE VILLAGE OF

WML 6 ALL COST TO PLUG AND BLOCK THE ENDS OF WATER MAINS AT LOCATION SHOWN IN THE PLANS SHALL BE

RE-TESTED. DAMAGE CAUSED TO EXISTING LINES AND VALVES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN

WML 7 WATER SERVICE BOXES SHALL BE LOCATED 6" TO 12" FROM THE ROADWAY RIGHT-OF-WAY LINE, UNLESS

INCLUDED IN THE PRICE BID FOR PIPE.

SEPARATE PAYMENT WILL BE MADE.

WORKING PRESSURE PLUS SURGE PRESSURE.

OTHERWISE AUTHORIZED BY THE VILLAGE ENGINEER. WML 8 A DETECTABLE UNDERGROUND UTILITY MARKING TAPE SHALL BE INSTALLED APPROXIMATELY 18" BELOW GRADE. THIS TAPE SHALL CONSIST OF A MINIMUM 5 MIL. OVERALL THICKNESS. WITH A SOLID ALUMINUM FOIL CORE. WITH. A 2 MIL. CLEAR FILM REVERSE PRINT LAMINATED TO AN ALUMINUM FOIL TO 2 MIL. CLEAR FILM, MAKING THE FILM PERMANENTLY PRINTED. COLOR CODE SHALL BE BLUE INDICATING WATER AND ASSOCIATED LINES. THE TAPE SHALL BE MANUFACTURED TO WITHSTAND ALKALINE, ACIDIC AND NEUTRAL SOIL CONDITIONS. ANY DIRECTIONAL BORED PIPE SHALL HAVE A NO. 6 BRAIDED WIRE, INSTALLED WITH THE PIPE. COST SHALL BE INCLUDED WITH THE PRICE OF PIPE. NO

WML 9 THE CONTRACTOR SHALL SUBMIT TO THE VILLAGE ENGINEER FOR REVIEW, FIVE COPIES OF SHOP DRAWINGS FOR ALL MATERIALS, STRUCTURES, GRADATION CERTIFICATIONS AND EQUIPMENT BEFORE ANY OF THE SAID MATERIALS, STRUCTURES AND EQUIPMENT IS ORDERED. THE OWNER NOR THE VILLAGE OF ASHVILLE BEAR ANY RESPONSIBILITY TO ACCEPT ANY OF THE ABOVE-MENTIONED ITEMS WITHOUT A COMPLETE REVIEW OF SAID SHOP DRAWINGS. THE SHOP DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO SUBMISSION TO THE VILLAGE, THESE DOCUMENTS SHALL BE

BOUND INTO A FOLDER WITH EITHER AN INDEX WITH # OF SHEETS FOR EACH ITEM OR PAGES IDENTIFIED THROUGHOUT.

WML 10 ALL WATER PIPES AND FITTINGS, AND METHODS OF CONSTRUCTION AND WORKMANSHIP FOR WATER LINES AND APPURTENANCES SHOWN IN THESE PLANS SHOULD CONFORM TO THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, DIVISION 800 AND APPLICABLE REFERENCES THEREIN, CURRENT ON THE DATE OF CONTRACT, UNLESS THE REQUIREMENTS OF SUCH RULES AND REGULATIONS ARE UPGRADED OR MODIFIED BY THE FOLLOWING NOTES OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

WML 11 WORK REQUIRING THE SHUTDOWN OF EXISTING WATER MAINS IS TO BE COORDINATED. WITH THE VILLAGE OF

ASHVILLE WATER DEPARTMENT FORTY-EIGHT (48) HOURS PRIOR TO THE SCHEDULED. WORK BEING PERFORMED. ALL EFFECTED CUSTOMERS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE WML 12 WATER MAINS SHALL BE DUCTILE IRON PIPE DESIGNED IN ACCORDANCE WITH THE LATEST REVISIONS OF

A.N.S.I./A.W.W.A. C150/A21.50 FOR A MINIMUM 150 PSI (OR PROJECT REQUIREMENTS, WHICHEVER IS GREATER) RATED

WORKING PRESSURE PLUS A 100 PSI MINIMUM SURGE ALLOWANCE, A 2 TO 1 FACTOR OR SAFETY ON THE SUM OF

WML 13 WATER MAINS SHALL BE DUCTILE IRON PIPE, CLASS 52 (AWWA C151) WITH CEMENT MORTAR LINING AND SEAL COATING (AWWAC104) IN ACCORDANCE WITH VILLAGE SPECIFICATIONS. JOINTS SHALL BE RUBBER GASKET PUSH-ON MECHANICAL (AWWA C111). WATER MAIN FITTINGS SHALL BE OF DUCTILE IRON WITH CEMENT MORTAR LINING AND

SEAL COATING WITH MECHANICAL JOINTS AND SHALL CONFORM TO AWWA C153.

WML 14 DUCTILE IRON PIPE SHALL BE MANUFACTURED IN THE U.S.A. IN ACCORDANCE WITH THE LATEST REVISION OF A.N.S.I. /A.W.W.A. C151/A21.51. EACH PIPE SHALL BE SUBJECT TO A HYDROSTATIC PRESSURE TEST OF AT LEAST 500 PSI AT

WML 15 PIPE SHALL HAVE STANDARD ASPHALTIC COATING ON THE EXTERIOR PIPE SHALL ALSO HAVE A CEMENT MORTAR ON THE INTERIOR IN ACCORDANCE WITH A.N.S.I. /A.W.W.A. C104/A21.4 OF THE LATEST REVISION.

WML 16 THE CLASS OR NOMINAL THICKNESS, NET WEIGHT WITHOUT LINING, AND CASTING PERIOD SHALL BE CLEARLY MARKED ON EACH LENGTH OF PIPE. ADDITIONALLY, THE MANUFACTURE'S MARK, COUNTRY WHERE CAST, YEAR IN WHICH THE PIPE WAS PRODUCED, AND LETTERS "DI" OR "DUCTILE" SHALL BE CAST OR STAMPED ON THE PIPE.

WML 17 PVC PLASTIC PIPE, A.W.W.A. C900 DR 18 FOR SIZES 4" TO 12" AND A.W.W.A. C905 DR 18 FOR SIZES 14" AND ABOVE MAY BE USED ONLY WHEN APPROVED BY THE VILLAGE OF ASHVILLE.

WML 18 ALL PIPING TWO (2") INCHES OR LESS IN DIAMETER BETWEEN THE WATER MAIN AND THE CONTROL VALVE OR THE METER PIT SHALL BE ADS POTABLE WATER SERVICE TUBING (CTS) CONFORMING IN ALL RESPECTS TO A.S.T.M. D2737.

AWWA C901 AND NSF STANDARDS 41 AND 61. FITTINGS SHALL BE HIGH QUALITY COPPER BRASS WITH AWWA APPROVED

THE VILLAGE WILL ALLOW THE USE OF TYPE K, SOFT TEMPERED, COPPER TUBING CONFORMING IN ALL RESPECTS TO

COMPRESSION TYPE JOINTS. IN GENERAL, THERE WILL BE NO FITTINGS PERMITTED BETWEEN THE WATER MAIN

CONNECTION AND THE CONTROL VALVE.

PAINTED ALL FEDERAL SAFETY RED.

A.S.T.M. 888 ONLY WITH PRIOR WRITTEN APPROVAL.

WML 19 DEAD END WATER LINES SHALL TERMINATE WITH A FIRE HYDRANT AND A WATCH VALVE OR TWO 3/4 INCH WATER SERVICE FOLLOWED BY SUFFICIENT LENGTH OF WATER LINE TO RESTRAIN THE VALVE AND SHALL BE FOLLOWED BY A MAIN LINE VALVE AND AN ADDITIONAL SECTION OF WATER LINED PLUGGED AND BLOCKED PER THE "STANDARD

WML 20 WATERLINES SHALL BE INSTALLED WITH A MINIMUM OF FOUR (4) FEET OF COVER MEASURED FOR THE FINISHED GRADE TO THE TOP OF THE WATER MAIN.

WML 21 ALL MAIN LINE VALVES, HYDRANT WATCH VALVES, CURB BOXES AND DEAD END LINES ARE TO BE MARKED WITH A 4"X4"8'0" OR 10'-0" PRESSURE TREATED WOOD POST WITH 4'-0" PROJECTING ABOVE THE FINISH GRADE AND THE TOP 1'-0" POINTED BLUE ON ALL FOUR (4) SIDES.

WML 22 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HORIZONTAL AND VERTICAL DEFLECTIONS OR BENDS OF THE WATER LINES IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DEFLECT WATER LINES TO PROVIDE 1'-6" VERTICAL AND 10'-0" HORIZONTAL CLEARANCE FROM SANITARY AND STORM SEWERS.

WML 23 IF THERE ARE ANY CONFLICTS IN GRADE BETWEEN WATER LINES AND GRAVITY SEWERS, THE WATER LINES SHALL BE LOWERED DURING CONSTRUCTION. CLEARANCES STATED MUST BE MAINTAINED.

WML 24 A PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE VILLAGE OF ASHVILLE, PRIOR TO MAKING A

CONNECTION TO THE WATER SERVICE INSTALLED AS PART OF THIS PROJECT AND PRIOR TO MAKING ANY ADDITIONAL

TAPS INTO THESE WATER LINES. WML 25 THE WATER SERVICE TAPS SHALL CONSIST OF ALL PIPE. VALVES FITTINGS AND APPURTENANCES REQUIRED FROM

AND INCLUDING THE WATER MAIN CONNECTION TO AND INCLUDING THE CONTROL VALVE AND BOX OR METER PIT.

WML 26 THE CAPS AND INSIDE OF ALL MAINLINE WATER VALVE BOXES SHALL BE PAINTED BLUE, AND THE CAPS AND INSIDE OF ALL FIRE HYDRANT GATE VALVE BOXES SHALL BE POINTED RED WITH TWO COATS OF RUST INHIBITIVE PAINT. PUBLIC FIRE HYDRANTS ARE TO BE PAINTED WITH TWO COATS OF FEDERAL SAFETY RED, SHERWIN WILLIAMS B54Y37 PER VILLAGE OF ASHVILLE 1507.08(A)(1). PRIVATE FIRE HYDRANTS ARE TO BE PAINTED FEDERAL SAFETY RED AND WHITE CAPS and bonnets per village of ashville 1507.14(B)(4). Hydrants places in a factory looped system shall be

WML 28 ALL GATE VALVES SHALL BE DUCTILE IRON RESILIENT WEDGE, TWO HUNDRED AND FIFTY (250) POUNDS PER SQUARE INCH (PSI), AS MANUFACTURED BY AMERICAN FLOW CONTROL OR APPROVED EQUIVALENT WHICH MEETS OR EXCEEDS THE REQUIREMENTS OF ANSI / AWWA C509.

WML 27 TAPPING SLEEVES ARE TO BE FORD METER BOX STYLE FTSS ALL STAINLESS STEEL OR JCM 432 ALL STAINLESS

WML 29 VALVE BOXES ARE TO BE TYLER 6500 SCREW TYPE FOR MAIN AND WATCH VALVES WITH FORD F-1000 CORPORATION STOPS, AND TYLER 94E CURB BOXES. VALVE BOXES ARE TO BE HEAVY DUTY IF LOCATED IN PAVED AREAS. CONTROL VALVES SHALL BE FORD Z44-333 VALVES.

WML 30 WATER MAIN CLEANING AND FLUSHING SHALL CONFORM TO ITEM 801.11 CMSC.

OF THE RIGHT-OF-WAY LINE, WHENEVER PRACTICAL.

WML 31 HYDROSTATIC TESTS (AS REQUIRED IN SECTION 5 OF A.W.W.A C600) SHALL CONFORM TO ITEM 801.12 CMSC. 33. CHLORINATING OF COMPLETED PIPE LINE SHALL CONFORM TO ITEM 801.13 CMSC.

STOPS. CONTROL VALVES SHALL BE FORD Z44-333 VALVES. WML 33 WATER SERVICE BOXES ARE TO BE LOCATED IN PAIRS ALONG PROPERTY LINES. 8"-0" APART AND 2' - 0" OUTSIDE

WML 32 FOR WATER SERVICE TAPS, WATER MAIN CONNECTION SHALL BE MADE USING FORD F-1000 CORPORATION

WML 34 ALL WATER LINES SHALL BE TESTED (AWWA 600) AND STERILIZED (AWWA C651) BY THE CONTRACTOR IN ACCORDANCE WITH THE VILLAGE OF ASHVILLE AND AWWA SPECIFICATIONS. TESTING SHALL BE DONE UNDER THE SUPERVISION OF THE VILLAGE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

WML 35 IT IS THE POLICY OF THE VILLAGE OF ASHVILLE THAT THE DESIGN OF THE WATER DISTRIBUTION SYSTEM

IMPROVEMENTS BE SUCH THAT THE WORKING PRESSURE SHOULD NOT BE LESS THAN THIRTY-FIVE (35) POUNDS PER

SQUARE INCH (PSI) DURING PEAK FLOW CONDITIONS, OR MINIMUM OF TWENTY (20) PSI DURING PEAK FLOW PLUS FIRE

FLOW CONDITIONS. INDIVIDUAL BOOSTER PUMPS FOR THE PURPOSE OF RAISING SUPPLY LINE PRESSURE SHALL NOT BE PERMITTED FOR NON-SINGLE FAMILY RESIDENTIAL APPLICATION. WML 36 THE METER PIT FOR SINGLE-FAMILY RESIDENTIAL APPLICATION, INCLUDING ALL PIPING, FITTINGS, EQUIPMENT,

AND APPURTENANCES ARE SUBJECT TO APPROVAL BY THE VILLAGE OF ASHVILLE PRIOR TO INSTALLATION. METER PITS

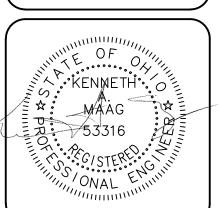
DOMESTIC LINES AND 200 PSI FOR FIRE SUPPRESSION LINES (PER NFPA 13). HYDROSTATIC TESTS (AS REQUIRED IN

WML 38 CHLORINATION OF COMPLETED PIPELINE SHALL CONFORM TO ITEM 801.13 CMSC.GE OF ASHVILLE WATER

UNABLE TO BE PROVIDED WITH A GRAVITY FLOOR DRAIN MUST BE INSTALLED IN A DEDICATED METER ROOM. GRAVITY DRAWS SHALL HAVE A BACKFLOW PREVENTION INSTALLED. WML 37 THE PRESSURE REQUIRED TO PERFORM HYDROSTATIC TESTING ON WATER LINES MUST BE 150 PSI FOR

SECTION 5 OF AWWA C 600) SHALL CONFORM TO ITEM 801.12 CMSC.

DEPARTMENT FORTY-EIGHT.



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KAM MEK

09/13/2022

2/3/23 VILLAGE SUBMITTAL REV. DATE DESCRIPTION

PROJECT NUMBER

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SUPERVISE THE WORK.

PROJECT RECORD DRAWINGS

COORDINATION

REMOVALS

PROTECTION

CONSTRUCTION.

PROCEDURES RELATED TO CONSTRUCTION.

TESTING LABORATORY SERVICES

SLOPES AND SPECIFICATIONS.

VERIFICATION AND PROTECTION

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE LOCATION,

ALIGNMENT, ELEVATION, AND GRADE OF ALL WORK SHOWN ON THE DRAWINGS AND

THE CONTRACTOR SHALL USE COMPETENT PERSONNEL AND SUITABLE EQUIPMENT. IF

NECESSARY, THE CONTRACTOR SHALL EMPLOY A REGISTERED ENGINEER OR SURVEYOR TO

PROMPTLY NOTIFY OWNER OF ANY DISCREPANCIES DISCOVERED.

PRESERVE PERMANENT REFERENCE POINTS DURING CONSTRUCTION.

CONCEALED UPON COMPLETION OF WORK AND ALL CHANGES MADE DURING CONSTRUCTION.

DIMENSION UNDERGROUND AND CONCEALED WORK AND UTILITIES FROM PERMANENT REFERENCE

POINTS: RECORD VERTICAL DISTANCES. SUBMIT PROJECT RECORD DRAWINGS TO OWNER UPON

COMPLETION OF WORK IN THE FORM OF EITHER AUTOCAD OR MICROSTATION ELECTRONIC FILES.

SCHEDULE AND TRAFFIC MAINTENANCE SHALL BE APPROVED BY THE OWNER.

REMOVAL OF EXISTING PAVEMENT SHALL BE ACCOMPLISHED BY SAW CUTTING IN A NEAT. STRAIGHT

JUNCTURE BETWEEN NEW AND EXISTING PAVEMENT IS FLUSH AND MADE IN A MANNER TO ENSURE A

CONTINUOUS BOND. CLEAN FACE AND APPLY A TACK COAT JUST PRIOR TO PLACING NEW ASPHALT

APPLY A BONDING AGENT JUST PRIOR TO PLACING NEW CONCRETE PAVEMENT PER THE SECTION ON

PROTECT IMPROVEMENTS ON SITE AND ON ADJOINING PROPERTIES. PROVIDE BARRICADES,

THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, LATERAL SUPPORTS, ETC. AND TAKE

THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION AGAINST DAMAGE TO ALL EXISTING

CONTRACTOR SHALL EMPLOY AND PAY FOR SERVICES OF AN INDEPENDENT TESTING

THIS WORK SHALL CONSIST OF ALL CLEARING AND GRUBBING. REMOVAL OF EXISTING

STRUCTURES UNLESS OTHERWISE STATED. PROPER AND APPROVED DISPOSAL OF MATERIALS

NOT REUSED FOR THE PROJECT. PREPARATION OF THE LAND TO BE FILLED, FILLING OF THE

LAND. SPREADING AND COMPACTION OF THE FILL. AND ALL SUBSIDIARY WORK NECESSARY TO

COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES,

REMOVE TREES, STUMPS, SNAGS, SHRUBS, BRUSH, HEAVY GROWTHS OF GRASS, WEEDS AND

CUT BRUSH AND VEGETATION FLUSH WITH GROUND. GRUB OUT STUMPS, AND ROOTS HAVING

A DIAMETER OF 2" OR LARGER, AND ROOT CLUSTERS TO A DEPTH OF AT LEAST 24 INCHES

OTHER VEGETATION, IMPROVEMENTS, RUBBISH AND DEBRIS, AND OBSTRUCTIONS THAT

INTERFERE WITH PROPOSED CONSTRUCTION; REMOVE ITEMS ONLY AS NECESSARY FOR

WHATEVER PRECAUTIONS NECESSARY TO PREVENT THE UNDERMINING OF ADJACENT EXISTING

UTILITIES, STRUCTURES, AND COMPLETED PORTIONS OF THE WORK, AND TO PREVENT INJURIES

TO PERSONS. IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO MAINTAIN THE

INTEGRITY OF ALL UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY

THE CONTRACTOR SHALL MAINTAIN FULL RESPONSIBILITY FOR ALL METHODS, MEANS AND

LABORATORY TO PERFORM SPECIFIED INSPECTION AND TESTING.

REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE SOLELY BY THE CONTRACTOR.

COVERINGS, OR OTHER TYPES OF PROTECTION AS NECESSARY TO PREVENT DAMAGE AND TO

SAFEGUARD AGAINST INJURY. RESTORE TO ORIGINAL CONDITION IMPROVEMENTS DAMAGED

LINE TO PROVIDE A SMOOTH VERTICAL SURFACE. FOR ASPHALT PAVEMENT ENSURE THAT THE

PAVEMENT PER THE APPROPRIATE SECTION SHOWN ON THE PLANS. FOR CONCRETE PAVEMENT

BY THE WORK OR IMPROVEMENTS WHICH REQUIRED TEMPORARY REMOVAL DURING

FOUNDATIONS AND MAINTAIN THE STRUCTURAL INTEGRITY OF EXISTING STRUCTURES.

EQUIPMENT, AND EMPLOYEE PARKING WITH THE OWNER.

THE CONTRACTOR SHALL COORDINATE THE STAGING AREA LOCATION FOR MATERIALS,

THE OWNER'S BUILDING OPERATIONS SHALL BE MAINTAINED AT ALL TIMES; CONSTRUCTION

VERIFY LOCATIONS OF SURVEY CONTROL POINTS PRIOR TO STARTING WORK.

2. PROTECT OR RELOCATE SURVEY CONTROL POINTS PRIOR TO STARTING SITE WORK:

ELEVATION DATUM: ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM. (ONLY IF NEEDED).

KEEP A CURRENT SET OF DRAWINGS AT JOB SITE THAT ARE MARKED TO SHOW LOCATION OF ITEMS

STOCKPILE TOPSOIL IN STORAGE PILES IN AREAS AS DESIGNATED BY OWNER. CONSTRUCT STORAGE PILES TO FREELY DRAIN SURFACE WATER. COVER OR SPRINKLE WATER ON STORAGE PILES TO PREVENT WINDBLOWN DUST.

EARTH WORK AND GRADING CONSTRUCTION

COMPLETION OF WORK.

- ALL EARTH AND GRADING SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE DEPARTMENT OF TRANSPORTATION LATEST EDITION.
- THE GRADING OPERATIONS SHALL BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. ALL TESTING, INSPECTION AND SUPERVISION OF THE SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE GEOTECHNICAL ENGINEER.
- THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORMWATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE.

- THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADE, EXCEPT FOR AREAS AS DESIGNATED FOR FUTURE DEVELOPMENT.
- THE DETENTION BASIN AND BERMS MAY BE OVER EXCAVATED TO MEET FILL REQUIREMENTS. THE OVER EXCAVATED AREAS WILL BE REFILLED WITH SUITABLE MATERIAL.
- THE SELECTED FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS SO THAT THE COMPACTED THICKNESS IS APPROXIMATELY SIX INCHES (6"). EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY.
- PLACE FILL IN PAVEMENT AREAS, DETENTION POND DIKES, UNDER BUILDING FOUNDATIONS AND SLABS, UNDER OUT LOT BUILDING PADS, AND WITHIN 10 FEET OF BUILDING LINES IN LOOSE LIFTS NOT MORE THAN 8 INCHES THICK, AT A MOISTURE CONTENT AT OR NEAR OPTIMUM, AND COMPACT TO AT LEAST 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-1557 (MODIFIED PROCTOR METHOD), OR TO OTHER DENSITY AS DETERMINED BY THE GEOTECHNICAL ENGINEER. PLACE FILL IN LANDSCAPE AREAS IN LOOSE LIFTS 12 INCHES THICK AND COMPACT TO 90% OF MAXIMUM STANDARD PROCTOR DENSITY.

FILL: FILL MATERIALS SHALL BE CLEAN GRANULAR MATERIAL. SUITABLE ON-SITE CUT MATERIAL MAY BE USED FOR REQUIRED FILLS. PROVIDE ADDITIONAL OFF-SITE FILL AS NECESSARY TO BRING SITE TO REQUIRED GRADES. FILL MATERIALS SHALL BE APPROVED BY GEOTECHNICAL

- THE SURFACE VEGETATION, TOPSOIL AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHOULD BE STRIPPED FROM ALL AREAS TO RECEIVE FILL. IF THE UNDERLYING SUBGRADE SOILS RUT DEEPER THAN ONE INCH (1") UNDER THE CONSTRUCTION EQUIPMENT OR IF THE MOISTURE CONTENT EXCEEDS THAT NEEDED FOR PROPER COMPACTION, THE SOIL SHALL BE SCARIFIED, DRIED AND RE-COMPACTED TO NINETY-FIVE PERCENT (95%) OF MODIFIED PROCTOR WITHIN BUILDING PAD AND PAVEMENT AREAS.
 - IF UNSUITABLE BEARING SOILS ARE REMOVED FROM BENEATH PROPOSED FOOTINGS, EXCAVATION SHALL EXTEND LATERALLY BEYOND PERIMETER OF FOUNDATION FOR A DISTANCE AT LEAST EQUAL TO THICKNESS OF BACKFILL BELOW FOOTING BASE. THIS PROVISION SHALL ALSO APPLY WHERE A RAISED STRUCTURAL PAD IS CONSTRUCTED TO ACHIEVE A BEARING ELEVATION GREATER THAN THE EXISTING GRADES.

UNSUITABLE MATERIALS: EXCAVATE ORGANIC, FROZEN, WET, SOFT, AND LOOSE SOILS (INCLUDING PREVIOUSLY PLACED UNCOMPACTED FILL SOILS); BOULDERS; REMNANTS OF PREVIOUS CONSTRUCTION: AND OTHER UNSUITABLE MATERIALS FROM BENEATH PROPOSED FOUNDATIONS, SLABS, PAVEMENTS, AND DETENTION POND DIKES. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BASE BID FOR THE PROJECT.

ALL UNSTABLE MATERIAL AND ALL SURPLUS EXCAVATED MATERIAL NOT REQUIRED SHALL BE REMOVED FROM THIS SECTION. THE LOCATION OF DUMP AND LENGTH OF HAUL SHALL BE THE CONTRACTOR'S RESPONSIBILITY WITH THE OWNER'S APPROVAL, PRIOR TO EXPORTING FILL FROM SITE. AN ADDITIONAL EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED AS AN AMENDMENT/ADDITION TO THIS PROJECT.

- TOLERANCE FOR AREAS TO RECEIVE SLABS OR PAVEMENTS SHALL BE 0.10 FT. ABOVE OR BELOW ESTABLISHED SUBGRADE. TOLERANCE FOR AREAS TO RECEIVE TOPSOIL SHALL BE 0.30 FT. ABOVE OR BELOW ESTABLISHED SUBGRADE.
- THE SUBGRADE FOR PAVEMENT AREAS SHALL BE PROOF-ROLLED BY THE CONTRACTOR AND ANY UNSUITABLE AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

SUBGRADE: PRIOR TO FILLING, PROOF-ROLL EXPOSED SUBGRADE TO DETECT AREAS WHICH MUST BE UNDERCUT OR IMPROVED BY APPROPRIATE PREPARATION AND COMPACTION TECHNIQUES. SUBGRADE FOR FOUNDATIONS, SLABS, PAVEMENTS, AND FILL SHALL BE APPROVED BY GEOTECHNICAL ENGINEER.

- UPON COMPLETION OF THE SURFACE IMPROVEMENTS, THE CONTRACTOR SHALL RE-SPREAD A MINIMUM OF THREE INCHES (4") OF TOPSOIL ON ALL DISTURBED AREAS.
- BACKFILL: PLACE FILL OR BACKFILL ADJACENT TO STRUCTURES IN A MANNER TO PREVENT DAMAGE AND ALLOW STRUCTURES TO ASSUME LOADS GRADUALLY AND UNIFORMLY. AT APPROXIMATELY SAME RATE ON ALL SIDES. BACKFILL FOR FOUNDATION WALLS AND BEHIND RETAINING WALLS FOR A LATERAL DISTANCE OF AT LEAST 3 TO 4 FT., OR FOR A DISTANCE AT LEAST EQUAL TO WIDTH OF BASE OF FOOTING, WHICHEVER IS GREATER, SHALL BE WELL-GRADED, FREE DRAINING GRANULAR MATERIAL.

DEWATERING: PERFORM SITE GRADING IN A MANNER TO PREVENT SURFACE WATER AND GROUND WATER FROM FLOWING INTO WORK AREA. PROMPTLY REMOVE WATER FROM EXCAVATIONS USING PUMPS. SUMPS. AND DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS. CONVEY WATER REMOVED FROM EXCAVATIONS AND RAIN WATER TO COLLECTION OR RUN-OFF AREAS. PROVIDE AND MAINTAIN TEMPORARY DRAINAGE DITCHES. IF UNDERGROUND SPRINGS OR DRAIN TILE ARE ENCOUNTERED, NOTIFY GEOTECHNICAL ENGINEER BEFORE PROCEEDING. WHEN POSSIBLE MAINTAIN EXISTING DRAIN TILE OR REROUTE INTO NEW STORM SEWER.

TRENCHING FOR UTILITIES

- EXCAVATE TRENCHES SO THAT PIPE CAN BE LAID SAFELY AND ACCURATELY TO REQUIRED LINE AND GRADE. HAND EXCAVATE FOR BELLS, FITTINGS AND PROJECTIONS TO ALLOW FOR PROPER JOINTING AND TO INSURE THAT PIPE RESTS EVENLY ALONG BARREL AND IS NOT RESTING ON
- IF ROCK IS ENCOUNTERED DURING TRENCHING, CONTACT OWNER BEFORE PROCEEDING FURTHER WITH AFFECTED PIPELINE.
- DEWATER TRENCHES AS REQUIRED TO PROVIDE STABLE BEDDING FOR PIPE. DEWATERING WILL BE INCIDENTAL TO WORK; NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- WHEN TRENCH BOTTOM IS UNSTABLE BECAUSE OF GROUND WATER, GEOTECHNICAL ENGINEER MAY REQUIRE EXTRA EXCAVATION TO REMOVE UNSTABLE MATERIAL AND REPLACE IT WITH CRUSHED STONE.
- IN SAND AND GRAVEL SOILS, BOTTOM OF TRENCH MAY BE SHAPED TO FIT BOTTOM 1/3 OF PIPE. IN SILT AND CLAY SOILS, BOTTOM OF TRENCH SHALL BE 4 INCHES BELOW PIPE BARREL AND 3 INCHES BELOW BELL. IN ROCK, BOTTOM OF TRENCH SHALL BE 6 INCHES BELOW PIPE BARREL. UNDER FOUNDATIONS AND FOOTINGS, BOTTOM OF TRENCH SHALL BE 8 INCHES BELOW PIPE BARREL.
- BEDDING, HAUNCHING, AND INITIAL BACKFILL FOR RIGID PIPES SHALL BE IN ACCORDANCE WITH ASTM C12, CLASS C OR BETTER. TRENCHES DUG-IN SANDY OR GRAVEL MATERIALS MAY USE UNDISTURBED EARTH FOR BEDDING PROVIDED SURFACE IS SHAPED TO CONFORM TO PIPE. PROVIDE GRANULAR BEDDING IN ALL OTHER TRENCHES FROM SUBGRADE TO A POINT SUPPORTING BOTTOM 1/3 OF PIPE FOR RIGID PIPE AND TO SPRINGLINE (MID-HEIGHT) FOR FLEXIBLE PIPE. PLACE AND COMPACT BEDDING SO THAT IT FILLS AND SUPPORTS PIPE HAUNCH
- PROVIDE TAMPED GRANULAR INITIAL BACKFILL UP TO A MINIMUM DEPTH OF 1 FOOT ABOVE PIPE. TAKE SPECIAL CARE IN PLACING AND TAMPING INITIAL BACKFILL MATERIAL SO ALIGNMENT AND GRADE OF PIPE IS NOT DISTURBED NOR PIPE DAMAGED.
- BACKFILL MORE THAN 1 FOOT OVER PIPE SHALL BE GRANULAR BACKFILL. COMPACT BACKFILL IN ACCORDANCE WITH REQUIREMENTS OF "SITE GRADING" ARTICLE.
- GRANULAR BEDDING SHALL BE PLACED WITH A MINIMUM THICKNESS OF 6 INCHES (6") BENEATH THE BARREL AND BELL OF THE PIPE. THE 6 INCH (6") GRANULAR BEDDING BENEATH THE PIPE SHALL BE TAMPERED PRIOR TO THE PIPE PLACEMENT. GRANULAR BEDDING SHALL EXTEND UP AND AROUND THE PIPE TO 12 INCHES (12") ABOVE THE PIPE AND SHALL BE COMPACTED IN GRAVEL AGGREGATE FOR PVC PIPE. BEDDING SHALL BE COMPACTED IN ACCORDANCE WITH STATE DOT STANDARD SPECIFICATIONS.
- PIPE BACKFILL SHALL INCLUDE THE MATERIAL PLACED OVER THE PIPE EMBEDMENT MATERIAL. TRENCHES COMING WITHIN FIVE FEET (5') OF PAVED OR STONED STREETS, ALLEYS, DRIVEWAYS, SIDEWALKS, AND PARKING AREAS SHALL BE BACK FILLED FOR THEIR FULL DEPTH WITH GRANULAR MATERIAL MEETING THE REQUIREMENT OF BACKFILL FOR TYPE "B" CONDUITS. THE TOP OF THE BACKFILL SHALL EXTEND FROM FIVE FEET (5') OUTSIDE CURB TO FIVE FEET (5') IF APPLICABLE. THE COST OF PROVIDING THE COMPACTED GRANULAR BACKFILL SHALL BE INCLUDED IN THE CONTRACTORS BID. GRANULAR BACKFILL SHALL BE MECHANICALLY COMPACTED 304 STONE AND SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST.

ADDITIONAL STORM SEWER NOTES

FINGER DRAINS SHALL BE INSTALLED IN ALL CATCH BASINS. 10' LONG IN ALL FOUR DIRECTIONS.

THE STORM DRAINAGE SYSTEM SHALL BE CLEANED BY THE CONTRACTOR PRIOR TO ACCEPTANCE BY

INSPECTION AND TESTING: CONTRACTOR SHALL PERFORM THE FOLLOWING INSPECTIONS AND TESTS IN PRESENCE OF ENGINEER:

- 1. LEAKAGE INSPECTION: STORM SEWERS SHALL BE INSPECTED FOR EXCESSIVE INFILTRATION AND SAND LEAKAGE. CONTRACTOR SHALL REPAIR ALL SAND LEAKS AND INFILTRATION LEAKS WHICH MAY CAUSE A CONTINUED MAINTENANCE PROBLEM.
- ALIGNMENT AND GRADE: CHECK ALIGNMENT AND GRADE BY LAMPING METHOD. IF PIPE SHOWS POOR ALIGNMENT. OFFSET OR OPEN JOINTS, SAGS, OR KINKS, DEFECTS SHALL BE CORRECTED BY CONTRACTOR BEFORE FINAL ACCEPTANCE. PIPELINE SHALL BE RELAID IF LAMP CANNOT BE VIEWED BETWEEN ADJACENT MANHOLES.
- DEFLECTION LIMITATION: DEFLECTIONS IN PVC AND PE PIPE SHALL BE LIMITED TO 5% PERCENT OF NOMINAL PIPE DIAMETER. IF VISUAL INSPECTION INDICATES A GREATER DEFLECTION, CONTRACTOR SHALL SUPPLY AND PULL A BALL WITH A DIAMETER 5% PERCENT LESS THAN INTERNAL PIPE SIZE THROUGH SEWER; FAILURE TO FREELY PASS THROUGH SHALL BE CAUSE FOR REJECTION OF SEWER.

11. DOWN SPOUT LATERALS

- PIPE: PVC DRAINS FROM DOWN SPOUTS TO STORM SEWER SHALL BE PVC PIPE, ASTM D2665, WITH SOLVENT WELD JOINTS.
- STONE BACKFILL: WASHED, EVENLY GRADED GRAVEL OR CRUSHED STONE WITH 100% PASSING 1 INCH SIEVE AND NOT MORE THAN 5% PASSING NO. 8 SIEVE.
- 12. PAVEMENT AND RETAINING WALL DRAIN TILE
- A. UNDER DRAIN PIPE: PERFORATED CORRUGATED POLYETHYLENE DRAINAGE PIPE COMPLYING
- B. PIPE WRAP: SYNTHETIC FABRIC WITH AN APPROXIMATE WEIGHT OF 3 OZ./SQ. YD; ADS SOCK, OR APPROVED EQUAL.
- UNDER DRAIN AGGREGATE: CLEAN, WASHED, 1/2 INCH STONE CHIPS OR PEA GRAVEL. 1/2 INCH STONE CHIPS SHALL BE GRADED IN ACCORDANCE WITH ASTM C33, SIZE NO 7. PEA GRAVEL SHALL CONSIST OF ROUNDED, FREE FLOWING AGGREGATE WITH PARTICLE SIZE NOT MORE THAN 3/4 INCH AND NOT LESS THAN 1/8 INCH IN DIAMETER.
- D. GEOTEXTILE FABRIC: DRAINAGE FILTRATION FABRIC COMPLYING WITH STATE DOT STD. SPEC.

13. MANHOLES AND INLETS

- MANHOLES: MANHOLES SHALL BE PRECAST REINFORCED CONCRETE RINGS, ASTM C478 OF SIZES SHOWN ON DRAWINGS. JOINT SHAPE SHALL BE COMPATIBLE WITH DESIGNATED JOINT MATERIALS. STEPS AND PIPE SEAL COMPONENTS SHALL BE CAST INTO RISER SECTIONS. JOINT MATERIALS SHALL BE RUBBER RING GASKETS OR PLASTIC GASKET MATERIAL. PIPE SEALS SHALL BE FLEXIBLE, WATER TIGHT. GASKETED SEALS FOR PIPE ENTRANCE HOLES. EXCEPT THAT MORTAR SEALS MAY BE USED FOR STORM SEWER PIPE. ALL INVERTS SHALL BE POURED OR
- B. CASTINGS: FRAMES AND LIDS SHALL BE CAST IRON, ASTM A48, CLASS 30, OR UNIFORM QUALITY, FREE FROM BLOW HOLES, POROSITY, HARD SPOTS, SHRINKAGE DEFECTS, CRACKS OR OTHER SERIOUS DEFECTS. MANHOLE CASTINGS SHALL BE TRUE TO PATTERN WITH MACHINED BEARING FACES BETWEEN FRAME AND COVER. TYPE OF CASTINGS SHALL BE AS DESIGNATED ON DRAWINGS. LIDS FOR SANITARY MANHOLES SHALL HAVE SELF-SEALING NEOPRENE O-RING GASKETS AND CONCEALED PICK HOLES.
- C. STEPS: ASTM C478; CAST IRON OR STEEL REINFORCED COPOLYMER POLYPROPYLENE.
- CONCRETE: CONCRETE FOR INVERTS SHALL HAVE 3 TO 5 PERCENT AIR-ENTRAINMENT AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- INSTALLATION: MANHOLES WITH MORE THAN ONE ENTRANCE PIPE AND MANHOLES AT CHANGES IN ALIGNMENT OR GRADE SHALL HAVE FORMED FLOW CHANNELS WITH SMOOTH RADIUS TRANSITIONS. PIPE SEALS SHALL BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PIPES WITH FLEXIBLE SEALS SHALL BE SUPPORTED OUTSIDE MANHOLES BY BEDDING AS SPECIFIED FOR TYPE OF PIPE INSTALLED.

14. OUTFALLS

- END WALLS: APRON END WALLS SHALL BE PRE-FABRICATED FLARED END SECTIONS OF SAME MATERIAL AS SEWER PIPE OR OF REINFORCED CONCRETE. PROVIDE TRASH GUARDS AND PIPE TIES AS DETAILED ON DRAWINGS.
- B. RIPRAP: RIPRAP SHALL BE IN ACCORDANCE WITH STATE DOT.
- C. GEOTEXTILE FILTER FABRIC: FILTER FABRIC SHALL BE IN ACCORDANCE WITH STATE DOT.
- INSTALLATION: INSTALL FILTER FABRIC AS SHOWN AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. SURFACE TO RECEIVE FABRIC SHALL BE SMOOTH AND FREE OF OBSTRUCTIONS, DEPRESSIONS, AND DEBRIS. LAY FABRIC PARALLEL TO DIRECTION OF WATER FLOW. IF LAPPING OF FABRIC IS REQUIRED, MINIMUM OVERLAP SHALL BE 2 FT. OVERLAPS MAY BE ELIMINATED IF FABRIC SECTIONS ARE EITHER FACTORY OR FIELD SEWN. SEAM STRENGTH SHALL BE AT LEAST 80% OF FABRIC TENSILE STRENGTH. SECURE FABRIC IN

PLACE TO PREVENT SHIFTING BEFORE OR DURING PLACEMENT OF STONE OR RIPRAP. PLACE

RIPRAP FROM BASE OF SLOPE UPWARD; HEIGHT OF RIPRAP FREE FALL SHALL BE NO MORE

THAN 1FT. REPAIR OR REPLACE TORN OR PUNCTURED FABRIC IN ACCORDANCE WITH

MANUFACTURERS INSTRUCTIONS; NO EXTRA COMPENSATION WILL BE ALLOWED.

ADDITIONAL PAVEMENT NOTES

15. PAVEMENT CONSTRUCTION

- ALL PAVEMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE STATE DEPARTMENT OF TRANSPORTATION LATEST
- UNSUITABLE MATERIAL ENCOUNTERED IN EXCAVATING FOR PAVEMENT SUBGRADE SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO THE LIMITS APPROVED BY THE ENGINEER. UNSUITABLE MATERIAL THAT IS EXCAVATED SHALL BE DISPOSED OF ELSEWHERE AT
- THE PAVEMENT SUBGRADE AND BASE COURSE MATERIAL SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF THE AGGREGATE BASE COURSE, AT WHICH TIME. THE SUBGRADE AND BASE COURSE SHALL BE "PROOF ROLLED" BY THE CONTRACTOR WITH LEGALLY LOADED SIX-WHEELED TRUCK IN THE PRESENCE OF THE ENGINEER AND OWNER.
- SUBGRADE COMPACTION: COMPACTED SUB-BASE SOIL UNDER ROADWAY WILL BE ?PROOF ROLLED? FOR COMPACTION BY CONTRACTOR BY A TANDEM DUMP TRUCK LOADED WITH A LEGAL LOAD OF STONE, BEFORE STONE BASE IS PLACED. ALL SOFT SPOTS FOUND DURING PROOF ROLL OF SUB-BASE SHALL BE DUG OUT AND REPLACED WITH SUITABLE SOIL OR #2 STONE. IN LIEU OF USING #2 STONE, FABRIC OR GEOGRIDS MAY BE USED. STONE BASE WILL BE ?PROOF ROLLED? AGAIN BY DUMP TRUCK OUT TO THE EDGES OF THE PAVEMENT, BEFORE PAVING BEGINS. SUB-BASE SOIL COMPACTION TESTS SHALL MEET CURRENT SPECIFICATIONS FOR SUBGRADE COMPACTION.

16. CURB AND GUTTER, WALKS, AND SLABS

- CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS INTERSECT CURB LINE AT PAVEMENT INTERSECTION, CONCRETE SPILLWAYS, AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
- CONCRETE CURB AND GUTTER SHALL BE IN ACCORDANCE WITH DOT STANDARD SPEC., LOCATE CONTRACTION JOINTS AT 20 FT. ON CENTER, UNLESS OTHERWISE SHOWN. LOCATE EXPANSION JOINTS AS REQUIRED BY STATE DOT STD. SPEC.
- CONCRETE WALKS, SHALL BE IN ACCORDANCE WITH DOT STANDARD SPECS. UNLESS OTHERWISE SHOWN, LOCATE SIDEWALK CONTRACTION JOINTS AT 5FT. ON CENTER AND EXPANSION JOINTS AT 50 FT. ON CENTER. UNLESS OTHERWISE SHOWN, LOCATE CONTRACTION JOINTS IN LARGER SLABS AT 15 FT. INTERVALS IN EACH DIRECTION, REINFORCED WITH LUBRICATED SMOOTH DOWEL BARS (3/4 INCH DIAMETER, 18 INCH LENGTH, AT 12 INCH CENTERS).
- ALL CONCRETE CURB AND GUTTER AND PAVEMENT SHALL BE BROOMED FINISHED. CONCRETE TEST CYLINDERS SHALL BE TAKEN EACH DAY THAT CONCRETE IS POURED. A COMPRESSIVE STRENGTH OF AT LEAST 3,500 PSI FOR CURB AND GUTTER AND 4,000-4,500 PSI FOR PAVEMENT SHALL BE VERIFIED BY AN INDEPENDENT LABORATORY TO BE ACCEPTABLE. RESULT OF THE TESTING SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.
- FOR ALL CONCRETE CURB AND GUTTER AREAS, THREE-QUARTER INCH (3/4") THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 3/4" X 20" PLAIN ROUND STEEL DOWEL BARS SHALL BE INSTALLED AT ALL P.C.'S., P.T.'S., CURB RETURNS, AND AT THE END OF EACH POUR. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. THREE-QUARTER INCH (3/4") THICK FIBER EXPANSION JOINTS SHALL BE USED IN EVERY CASE AT TWELVE FOOT (12') MAXIMUM INTERVALS IN THE CURB AND CUT 2 1/4" DEEP. CURB JOINTING SHALL BE LOCATED AT CONCRETE PAVEMENT JOINTS. THE GRANULAR CURB BASE SHALL BE A MINIMUM OF SIX (6) INCHES OF AGGREGATE BASE MATERIAL TO ALLOW FOR PROPER SUBGRADE DRAINAGE. COMPACTED CURB SUBGRADE SHALL BE SHAPED PARALLEL TO THE CURB FLOW LINE AND POSITIVELY DRAINED TO INLETS AND CATCH BASINS. ALL ROADWAYS SHALL BE CONSTRUCTED TO A SELECT COMPACTED SUBGRADE, GRADED PARALLEL TO THE FINISH SURFACE.

17. BASE COURSE

PLACE CRUSHED AGGREGATE BASE COURSE TO THE LINES AND GRADES SHOWN IN ACCORDANCE WITH STATE DOT STD. SPEC. BASE COURSE SHALL BE GRADUATION NO. 2. COMPACT BASE COURSE IN 6 INCH MAXIMUM LIFTS TO 95% OF STANDARD PROCTOR DENSITY, ASTM D698.

18. P.C.C. PAVEMENT

- THIRTY DAYS PRIOR TO THE START OF PAVING THE CONTRACTOR SHALL SUBMIT A MIX DESIGN ANALYSIS OF THE PROPOSED CONCRETE. THE MIX DESIGN SHALL INCLUDE THE SOURCE AND QUANTITY OF ALL CONSTITUENTS, COMPRESSIVE STRENGTH, FLEXURAL STRENGTH, AIR CONTENT, SLUMP AND YIELD. PAVING MAY NOT BEGIN PRIOR TO OWNER'S APPROVAL OF THE
- CONCRETE SHALL CONFORM TO THE DEPARTMENT OF TRANSPORTATION AND ALL OTHER APPLICABLE SECTIONS WITH A WATER/CEMENT RATIO OF .45 OR LESS AND AIR CONTENT OF 6% (-1 TO +2).
- FOR EACH 150 CUBIC YARDS OR PORTION THEREOF PLACED PER DAY, THE FOLLOWING TESTS SHALL BE PERFORMED: SLUMP, AIR CONTENT, TEMPERATURE, ON SET OF 3 COMPRESSIVE STRENGTH CYLINDERS. FOR EVERY FIFTH SET OF CYLINDERS ONE SET OF THREE FLEXURAL STRENGTH BEAMS SHALL BE CAST. ALL TESTING SHALL COMPLY WITH ASTM STANDARDS: C-31, C-39, C-78, C-143.
- AFTER CONCRETE HAS SET, ALL EXPANSION JOINTS ADJACENT TO BUILDINGS SHALL BE CLEANED AND SEALED WITH HOT APPLIED RUBBERIZED SEALANT MEETING FEDERAL SPECIFICATION SS-S-1401C AND ASTM D3405.
- CONTRACTOR SHALL PROVIDE A JOINTING AND EXPANSION LAYOUT PLAN TO OWNER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.

19. ASPHALTIC CONCRETE PAVEMENT

PLACE ASPHALTIC CONCRETE BINDER AND WEARING COURSES TO THE LINES AND GRADES SHOWN IN ACCORDANCE WITH DOT STD. SPEC. ASPHALT CEMENT SHALL BE PENETRATION GRADE 85-100 OR PERFORMANCE GRADE PG 58-28. COMPACT PAVEMENT UNTIL ROLLER MARKS ARE ELIMINATED AND NOT LESS THAN 92% OF THE TARGET MAXIMUM DENSITY IS OBTAINED.

- THE BITUMINOUS PAVEMENT COURSE MATERIAL SHALL BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY AT THE ASPHALT MIXING PLANT TO VERIFY THAT THE PORTIONS OF MATERIAL ARE WITHIN THE ALLOWABLE LIMITS OF THE SPECIFICATIONS AS DEFINED BY THE DEPARTMENT OF TRANSPORTATION APPLICABLE SECTIONS. WRITTEN CONFIRMATION OF CONFORMANCE SHALL BE SUBMITTED TO THE OWNER.
- AFTER THE BITUMINOUS AGGREGATE BASE COURSE HAVE BEEN PROOF ROLLED AND REPAIRED WHEN REQUIRED AND PRIOR TO PLACING THE SURFACE COURSE, THE BITUMINOUS AGGREGATE BASE COURSE SHALL BE SURFACE TESTED BY THE CONTRACTOR. ANY VARIATIONS IN THE SURFACE OF THE BITUMINOUS AGGREGATE BASE COURSE EXCEEDING ONE HALF (1/2") INCH SHALL BE CORRECTED BY THE REMOVAL AND REPLACEMENT OF ANY SUB-STANDARD AREAS OR THE CONSTRUCTION OF CORRECTIVE LEVELING COURSE AT THE DIRECTION OF THE
- AFTER THE INSTALLATION OF THE AGGREGATE BASE COURSE, ALL TRAFFIC SHALL BE KEPT OFF THE AGGREGATE BASE UNTIL THE BITUMINOUS AGGREGATE BASE COURSE IS LAID. AFTER INSTALLATION OF THE BITUMINOUS AGGREGATE BASE COURSE AND UPON THE COMPLETION OF INSPECTION OF SAME AND APPROVED BY THE ENGINEER AND OWNER, THE PAVEMENT SHALL BE CLEANED, PRIMED AND THE INTERMEDIATE AND SURFACE COURSES LAID. ALL DAMAGED AREAS IN THE BITUMINOUS AGGREGATE BASE COURSE, AGGREGATE BASE OR CURB AND GUTTER SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND OWNER, PRIOR TO LAYING THE SURFACE COURSE. THE PAVING CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND MANPOWER IS NECESSARY, INCLUDING THE USE OF POWER BROOMS, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. EQUIPMENT AND MANPOWER FOR CLEANING SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT OR AS NOTED IN THE PROPOSAL.
- D. AFTER COMPLETION OF THIS ITEM, AN ASPHALT-SEALING BAND SHALL BE PLACED AT ALL INTERSECTIONS, FEATHERS, TRANSITIONS AND ASPHALT DRIVEWAYS.

20. PAVEMENT MARKING

- PAINT LINE WORK ON ASPHALTIC PAVING, CONCRETE CURBS, WALKS, AND RAMPS AS SHOWN. PAINT SHALL BE FACTORY MIXED, QUICK DRYING, NON-BLEEDING TRAFFIC MARKING PAINT COMPLYING WITH AASHTO M248, TYPE S. COLOR SHALL BE WHITE, EXCEPT WHERE ANOTHER COLOR IS REQUIRED BY CODE.
- CLEAN SURFACE IN AREAS TO RECEIVE MARKINGS. PAINT MARKINGS AND SYMBOLS WITH TRAFFIC MARKING PAINT. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. APPLY TWO COATS AT MANUFACTURERS RECOMMENDED RATES.
- HANDICAPPED PARKING SIGNS
 - MINIMUM 12 INCH, X 18 INCH X 18 GA. COLD ROLLED GALVANIZED STEEL, TREATED WITH A BAKED ENAMEL FINISH. COLORS, TEXT AND DESIGN AS SHOWN ON DETAILS.
 - B. SIGN SHALL BE MOUNTED ON A SINGLE 2 INCH SQUARE STEEL POST WITH PAINTED ENAMEL
 - SIGNS SHALL BE SET PLUMB AND LEVEL. TOUCH-UP ANY ABRASIONS TO FINISH. COMPLETELY CLEAN SIGNS OF ALL FOREIGN MATTER.

22. TRAFFIC SIGNS

TRAFFIC SIGNS SHALL COMPLY WITH THE PERTINENT STATE AND LOCAL REQUIREMENTS FOR THE SIGN TYPE(S) DESIGNATED ON DRAWINGS.

SEEDING

DISTURBED AREAS (EXCLUDING PAVEMENT AND BUILDING AREAS) SHALL RECEIVE MINIMUM 4 INCHES OF SALVAGED TOPSOIL, FERTILIZER, LIME, SEED, AND MULCH. SEE EROSION AND SEDIMENT CONTROL PLAN.

DISPOSAL

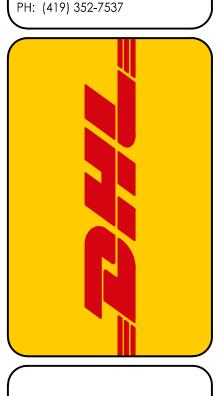
REMOVE FROM OWNER'S PROPERTY AND LEGALLY DISPOSE OF EXCESS EXCAVATED MATERIAL, TRASH, DEBRIS, AND WASTE MATERIALS.



POGGEMEYER DESIGN GROUP A KLEINFELDER COMPANY

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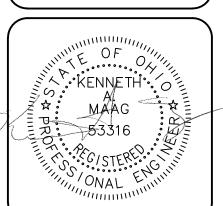
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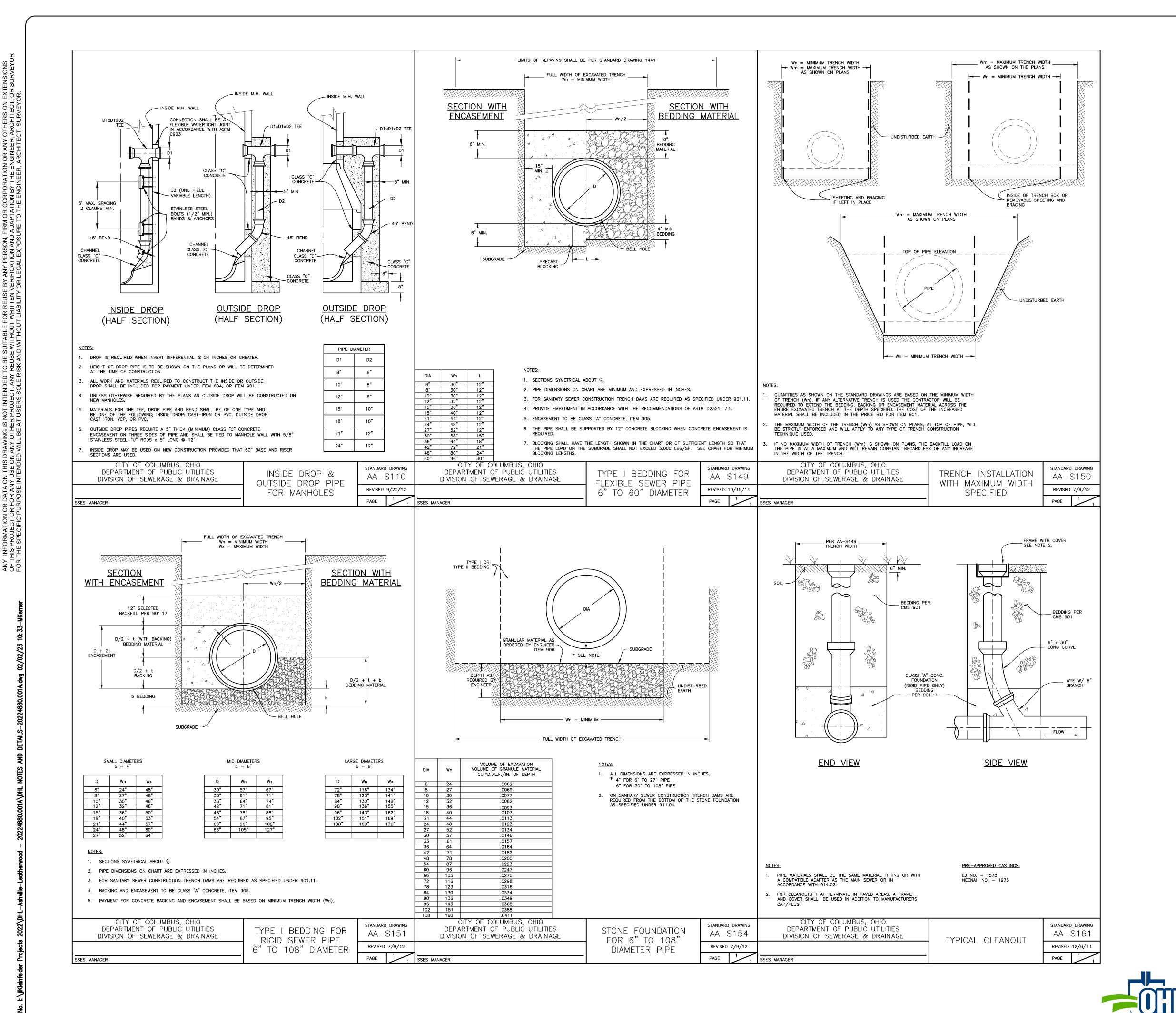
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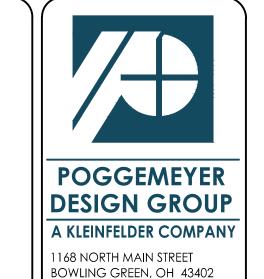


09/13/2022

2/3/23 VILLAGE SUBMITTAL REV. DATE DESCRIPTION

PROJECT NUMBER 20224880.001A





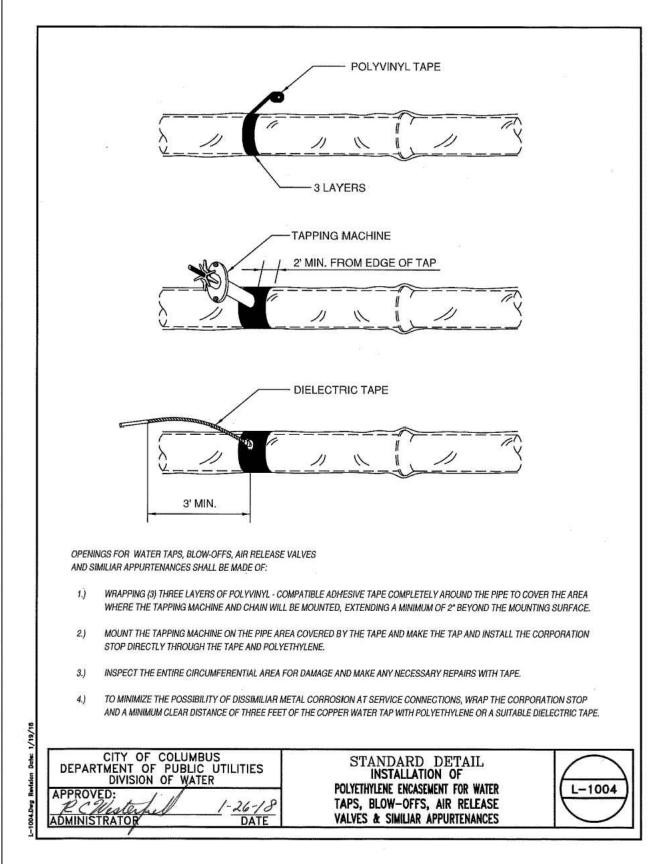


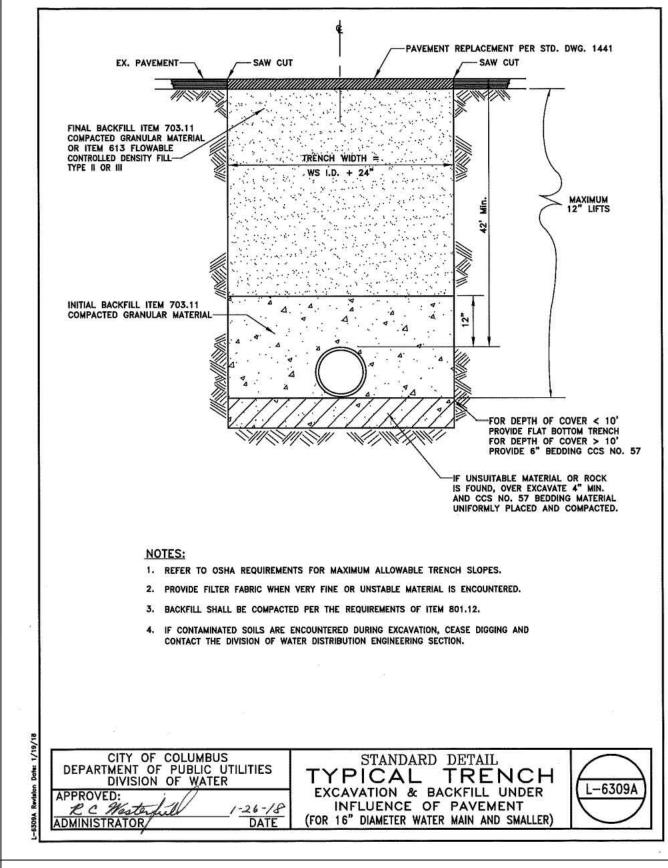
DHL SUPPLY CHAIN SHVILLE LOGISTICS PARK ASHVILLE, OHIO

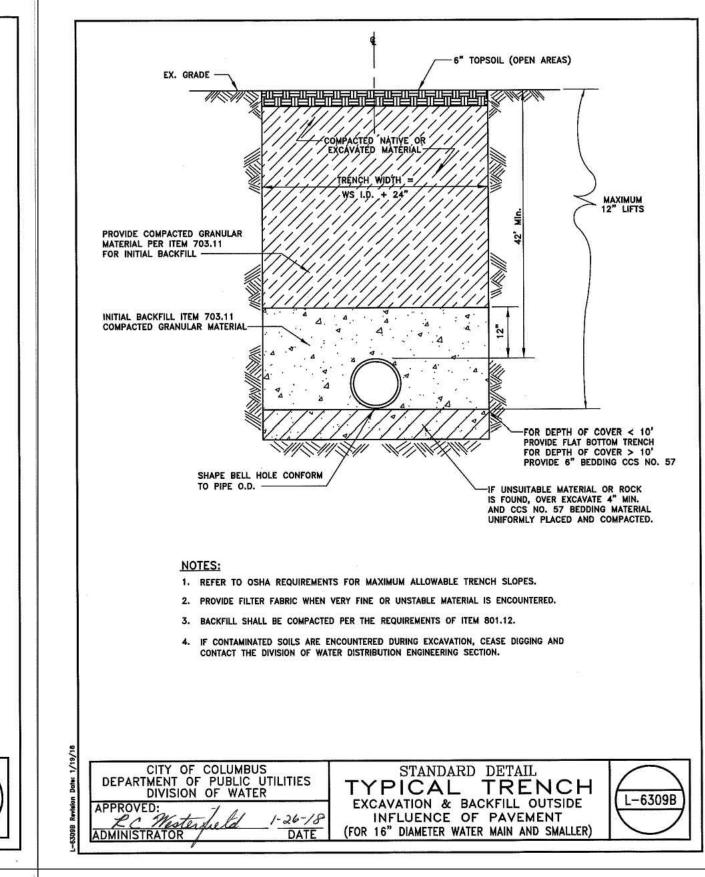
SEWER DETAIL SHEET

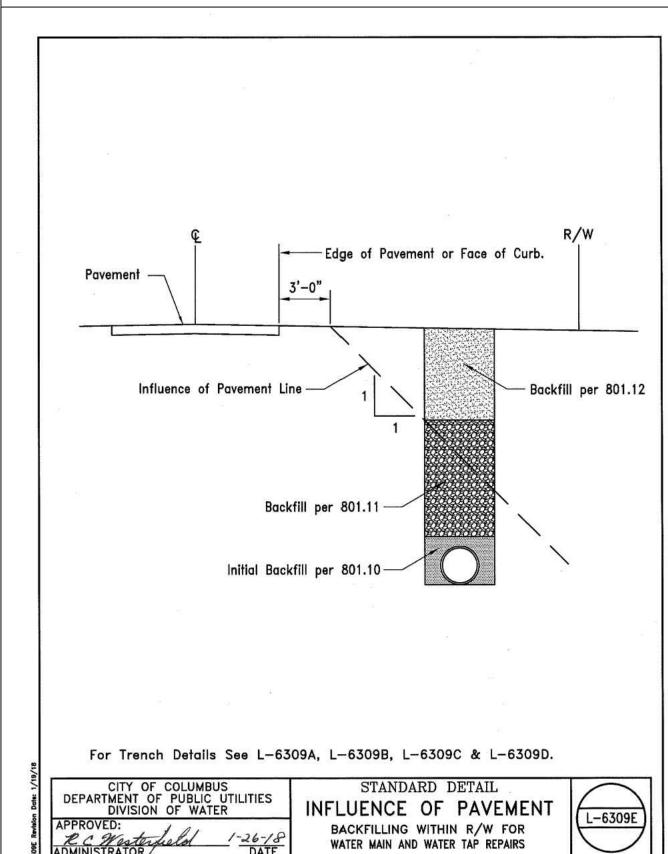
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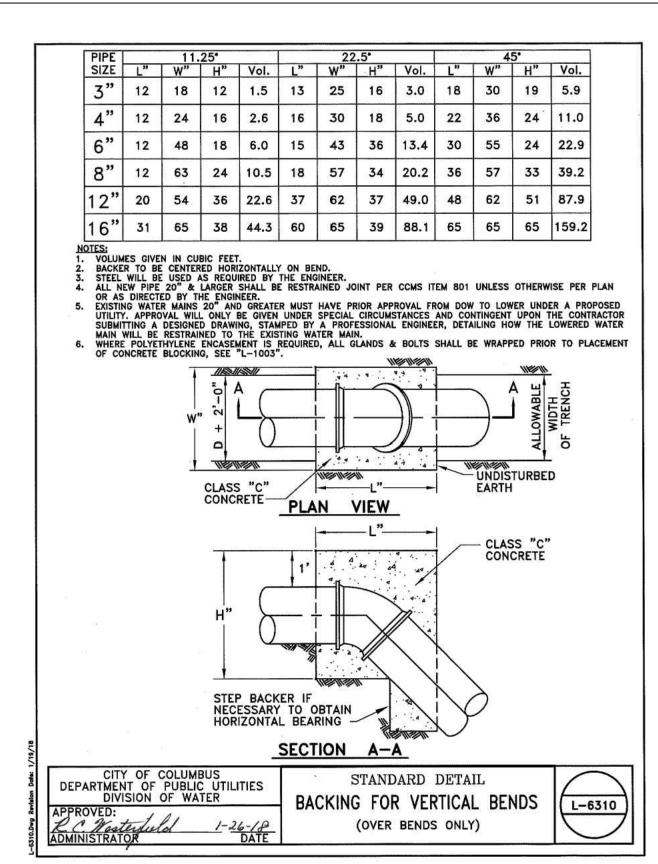
| 2/3/23 | VILLAGE SUBMITTAL | PROJECT NUMBER | 20224880.001A

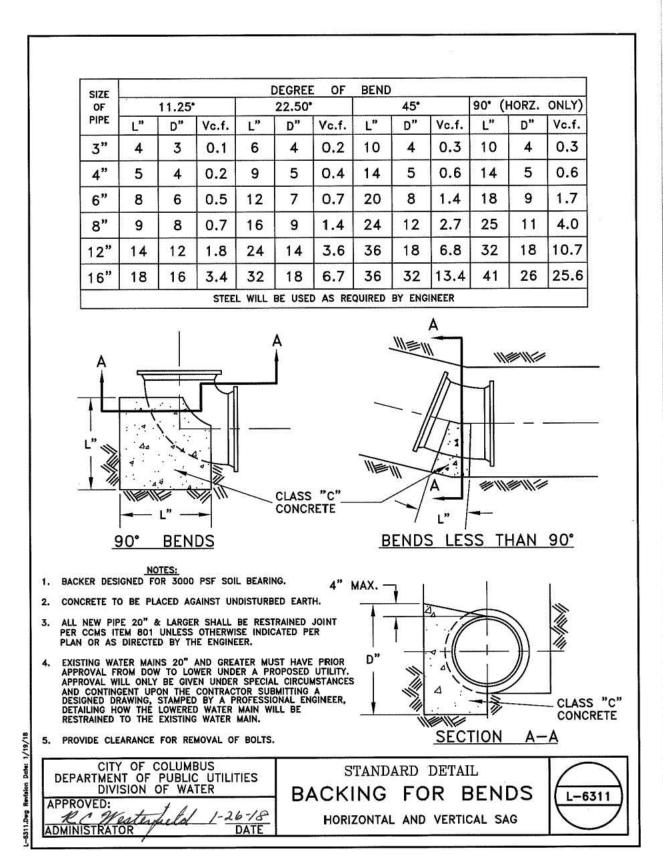


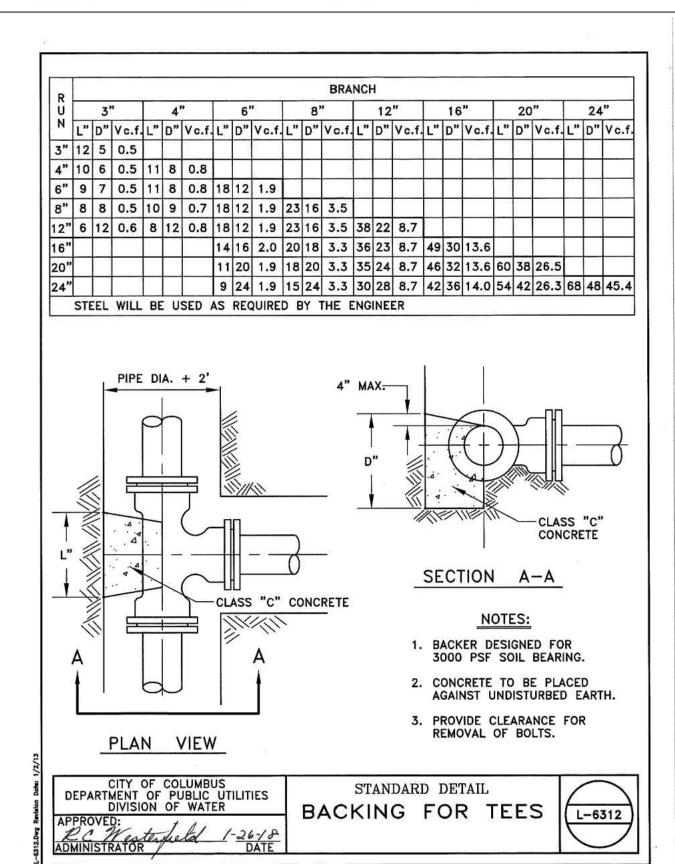














DATE 09/13/2022 2/3/23 VILLAGE SUBMITTAL REV. DATE DESCRIPTION

POGGEMEYER

DESIGN GROUP

1168 NORTH MAIN STREET BOWLING GREEN, OH 43402

PH: (419) 352-7537

A KLEINFELDER COMPANY

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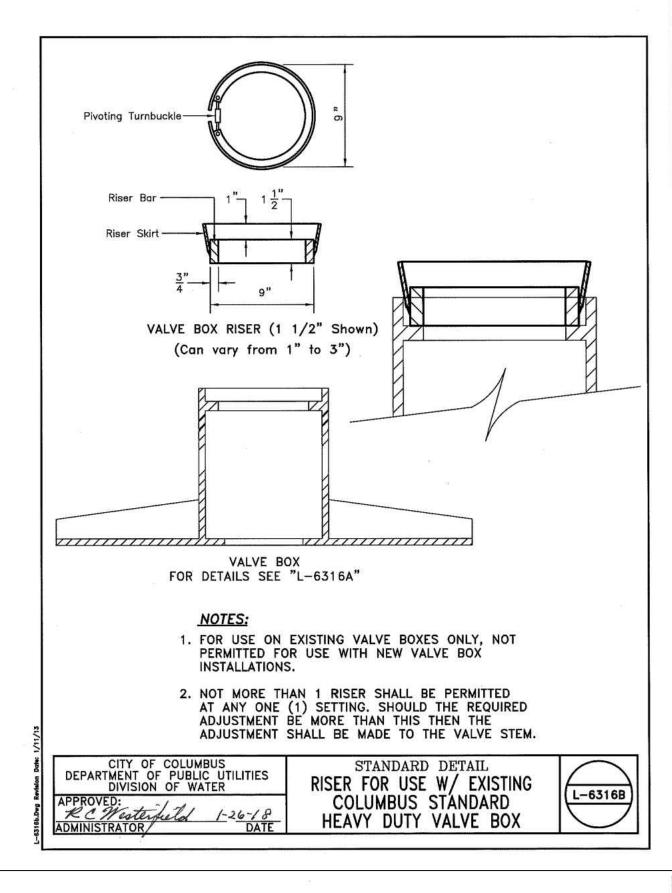
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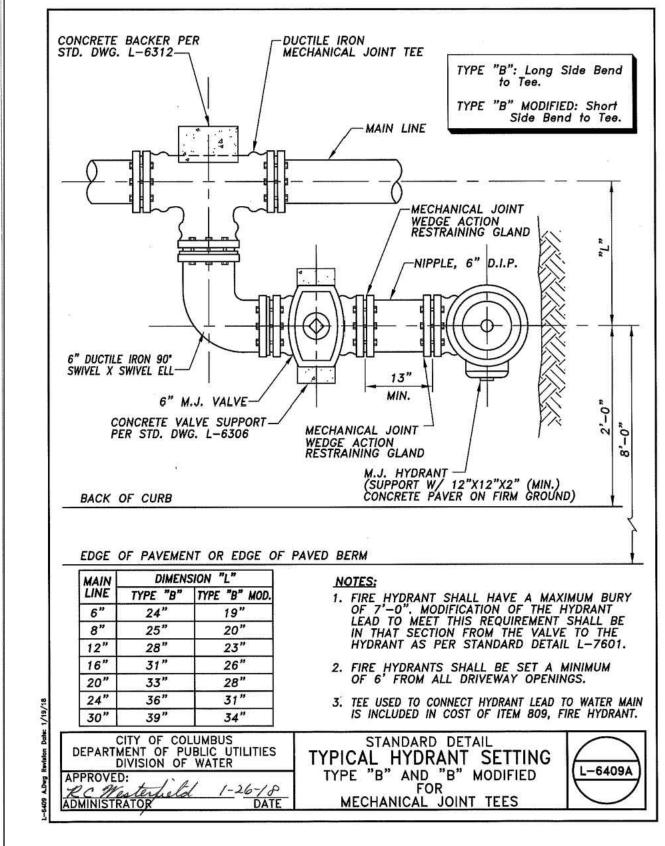
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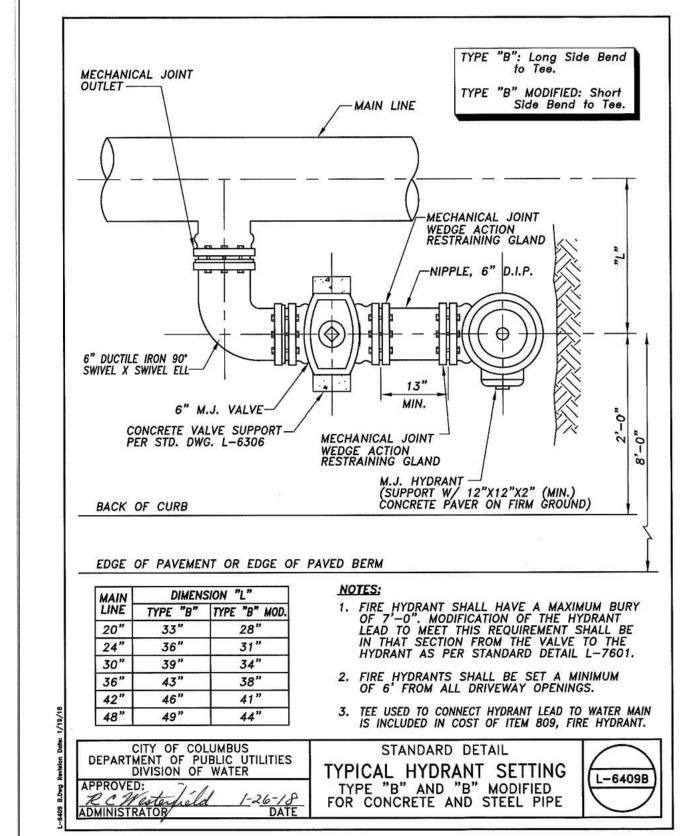
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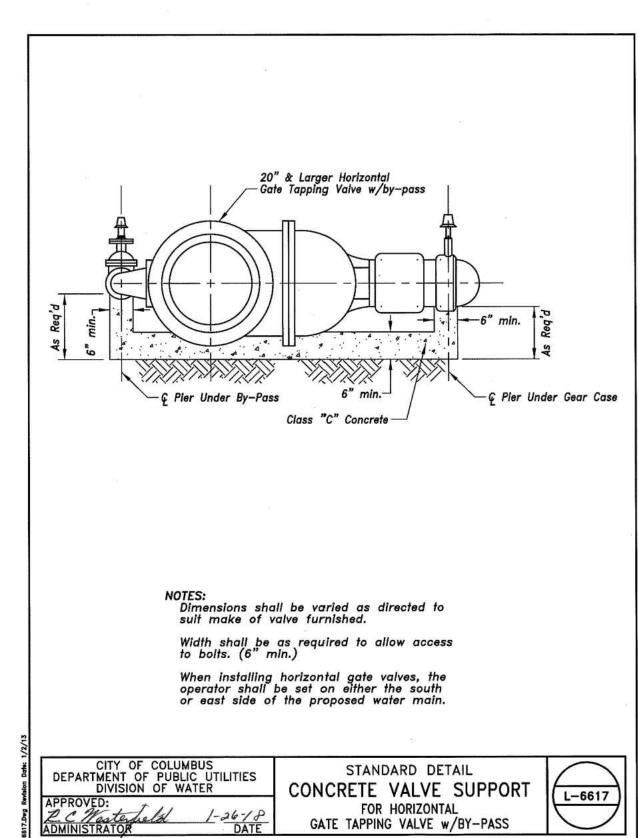
KAM MEK

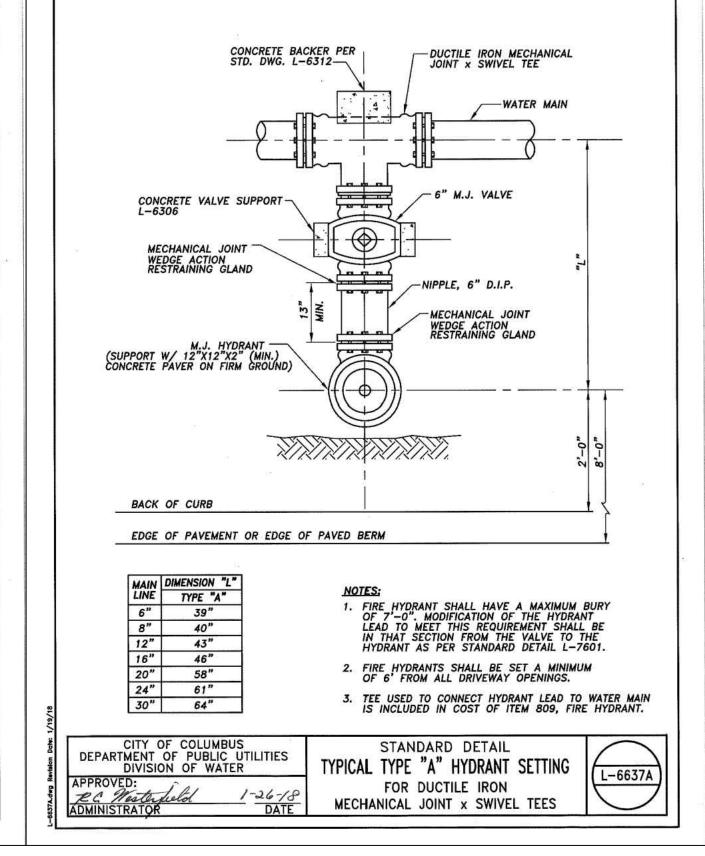
PROJECT NUMBER 20224880.001A

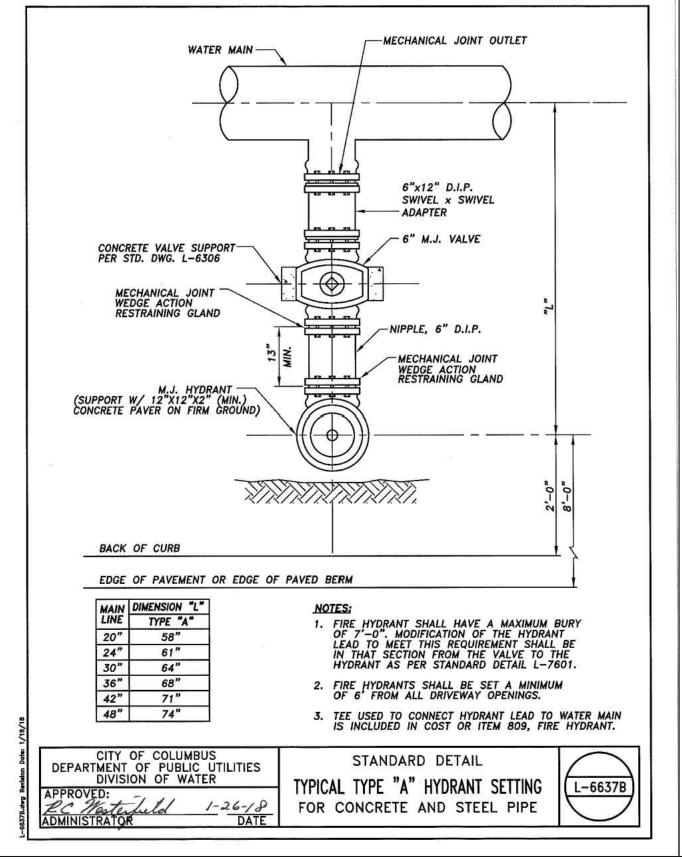


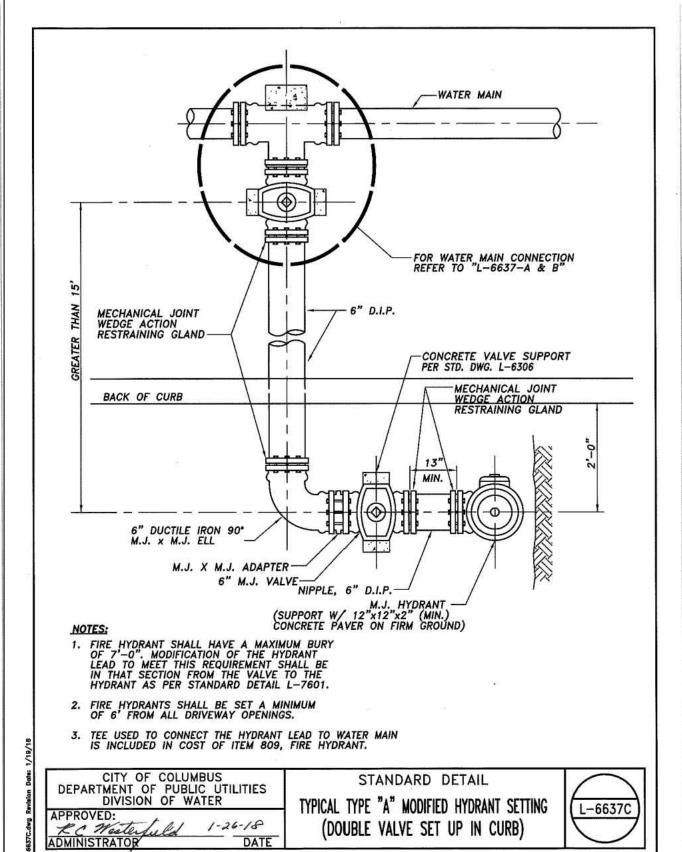














DATE 09/13/2022 PROJECT NUMBER 20224880.001A

ATERLINE DETAIL SHEET

POGGEMEYER

A KLEINFELDER COMPANY

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DESIGN GROUP

1168 NORTH MAIN STREET

PH: (419) 352-7537

BOWLING GREEN, OH 43402

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2/3/23 VILLAGE SUBMITTAL REV. DATE DESCRIPTION

L = Allowable Leakage (gal./hr.)
S = Length of pipe tested in feet.
D = Nominal pipe diameter in inches. P = Test pressure (150 psi)

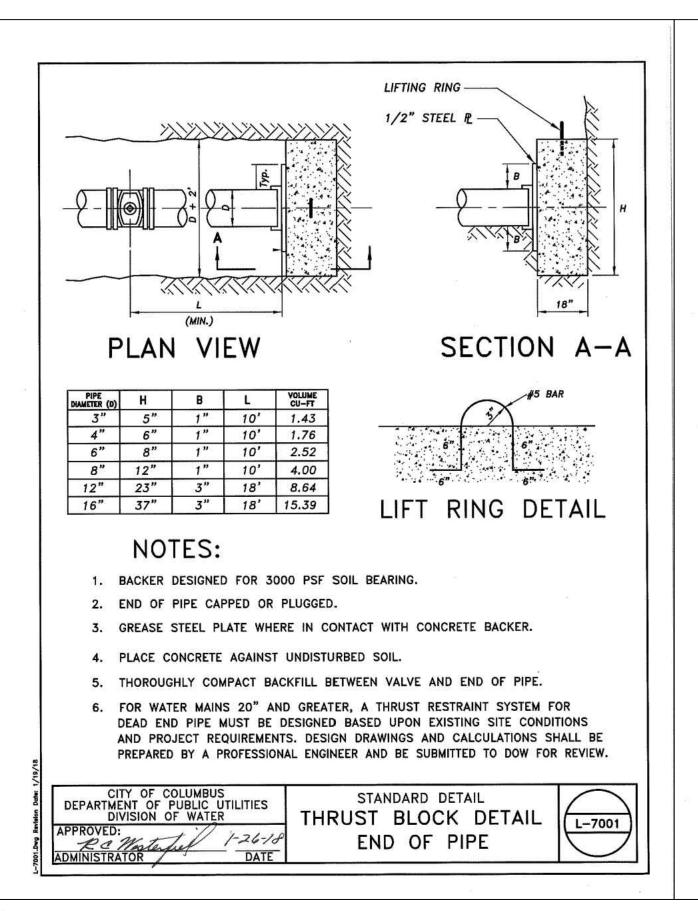
When testing against closed metal—seated valves, an additional leakage per closed valve of 0.0078 gal./hr./in. of nominal valve size will be allowed.

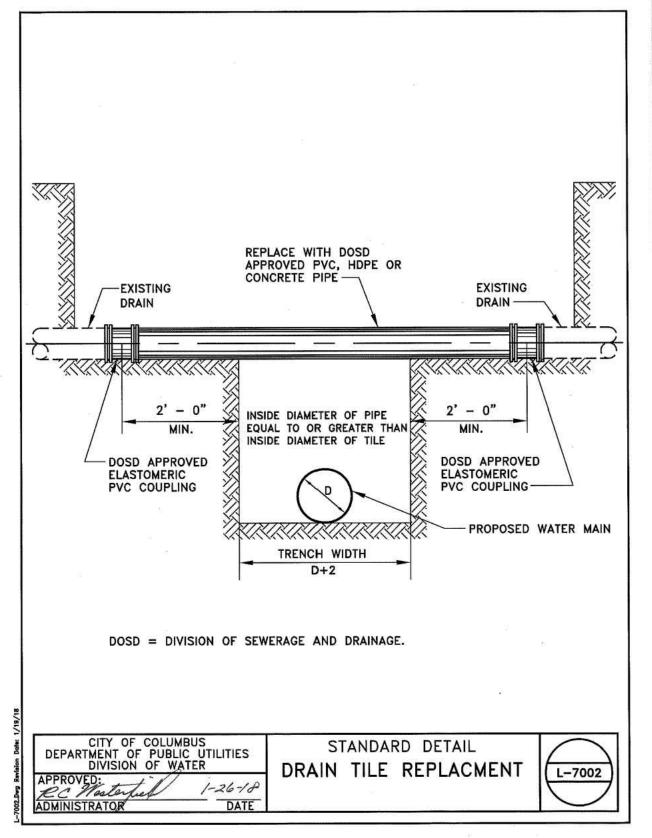
These calculations are based on "AWWA C-600-10" Specifications, Section 4, Hydrostatic Testing, Dated December 1, 2005.

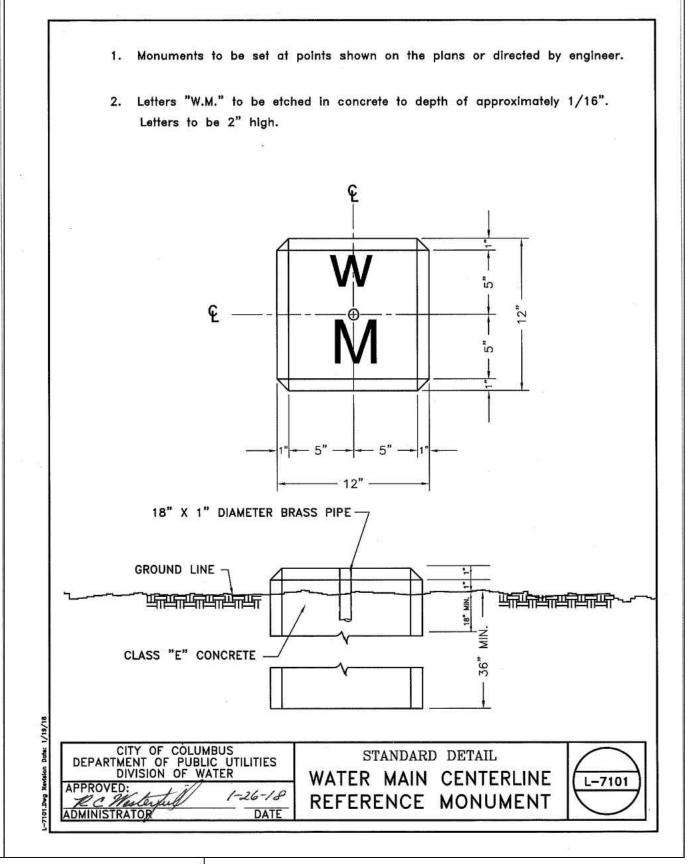
DE	CITY OF COLUM PARTMENT OF PUBL DIVISION OF W	IC UTILITIES	٨
APP	ROVED:	1-26-18	^
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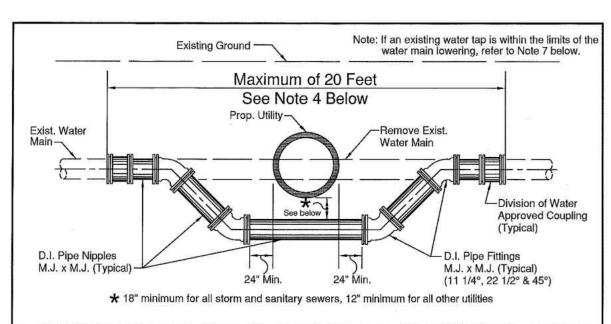
STANDARD DETAIL LLOWABLE LEAKAGE TABLE







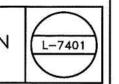


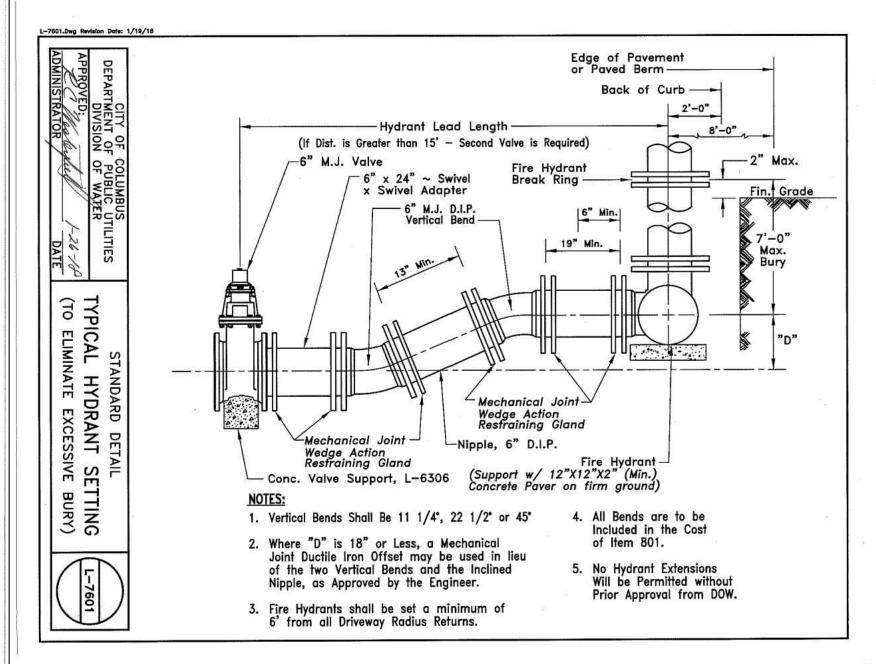


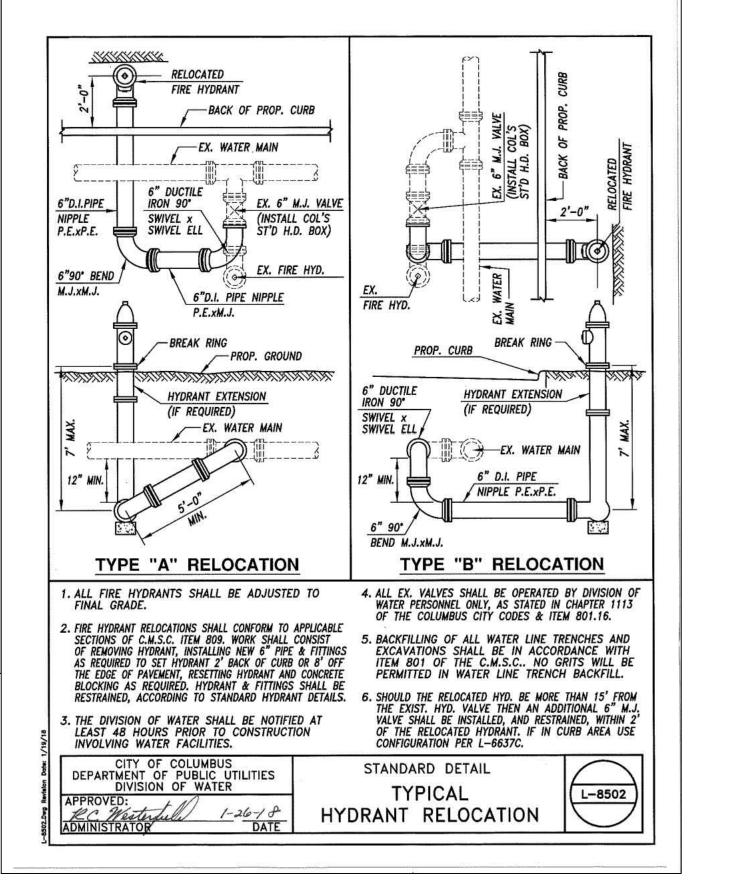
- All water main installation, as well as the scheduling of any water shut downs, shall be as per Item 801 of the current CCMS. Time and duration of all shut downs shall be determined by Division of Water. The Contractor shall notify all water customers effected by the proposed work at least 24 hours in advance of the scheduled shut down.
- Existing Water Mains 20" and greater must have prior approval of DOW to lower under a proposed utility. Approval will only be given under special circumstances and contingent upon the Contractor submitting a designed drawing, stamped by a Professional Engineer, detailing how the lowered main will be restrained to the existing water main.
- All bends shall be secured by restraining glands, rodding or other methods as approved by the Engineer to restore the water main to service as soon as possible. For water mains 16" and under, concrete backing shall then be provided in accordance with Standard Detail L-6310 for over bends and L-6311 for sag bends. For water mains 20" and larger, refer to the design plans for any specific information regarding restraint methods and concrete backing.
- All water main lowerings shall be less than or equal to 20 feet in length (cut to cut). If more than 20 feet is required, a water main relocation shall occur and will require pressure testing and chlorination.
- All water mains shall be disinfected by swabbing with a 5% Hypochlorite Solution in accordance with the applicable sections of A.W.W.A. C-651.
- 16" mains and smaller for a depth of cover less than ten (10) feet, provide a flat bottom trench. 16" mains and smaller - for a depth of cover greater than ten (10) feet, provide 6-inches of CCS No. 57 for bedding. 20" mains and larger - provide 6-inches of CCS No. 57 for bedding for all situations.
- If an existing water tap is within the limits of the water main lowering, Contractor shall expose the customer's water service line at the curb stop to determine the existing material prior to cutting the existing pipe. If the customer's water service line is found to be lead, DO NOT proceed with the lowering, and contact the Division of Water Distribution Engineering Group immediately at 614-645-7677. If after hours, DO NOT perform the lowering and contact the Division of Distribution Engineering Group immediately the following business day.

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER

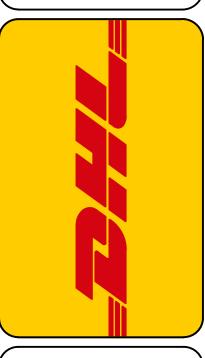
STANDARD DETAIL TYPICAL WATER MAIN LOWERING











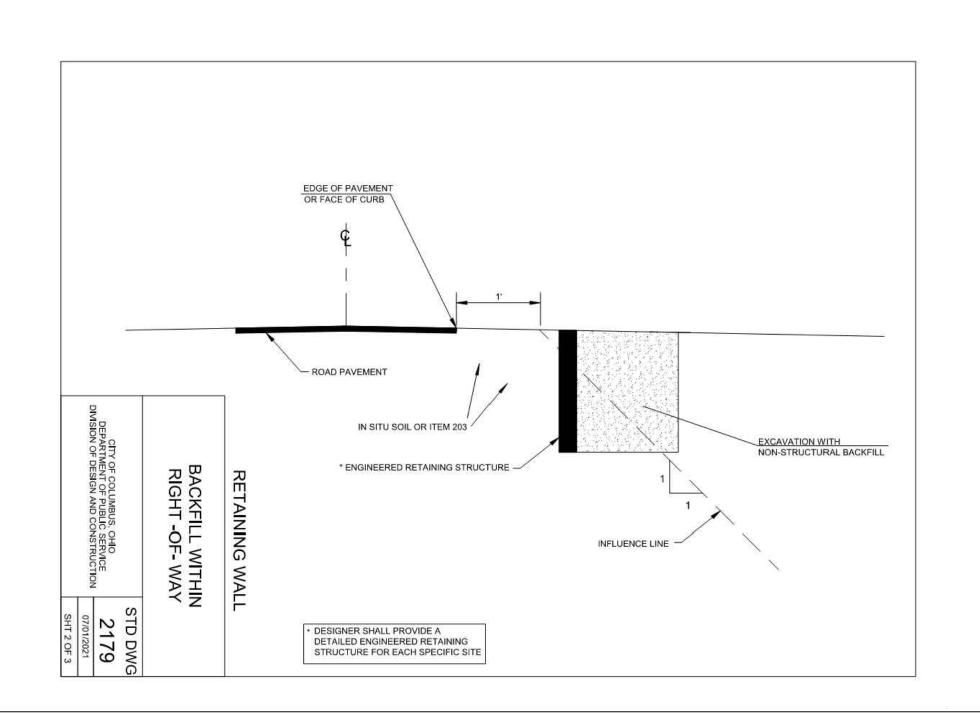
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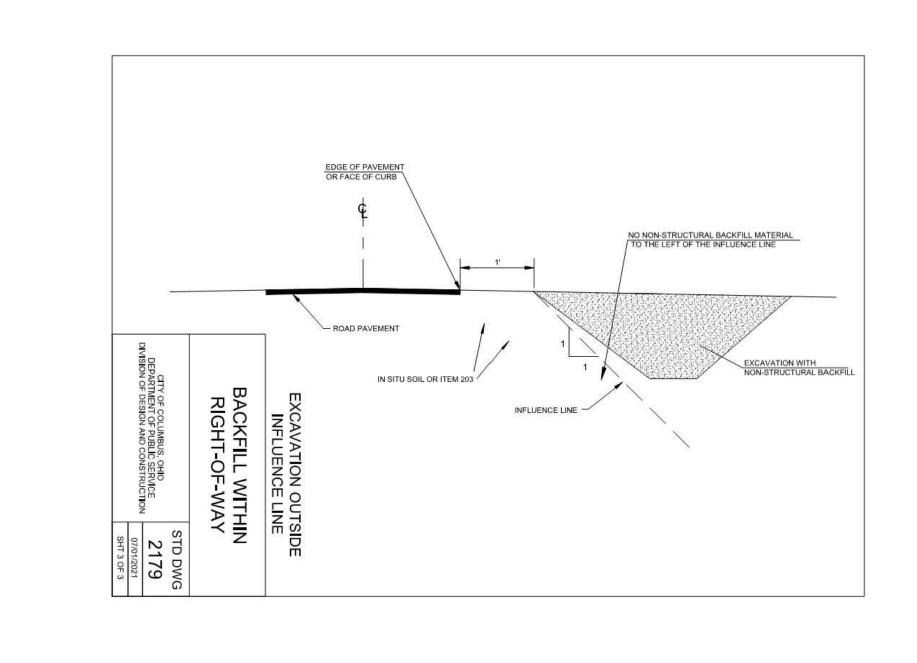
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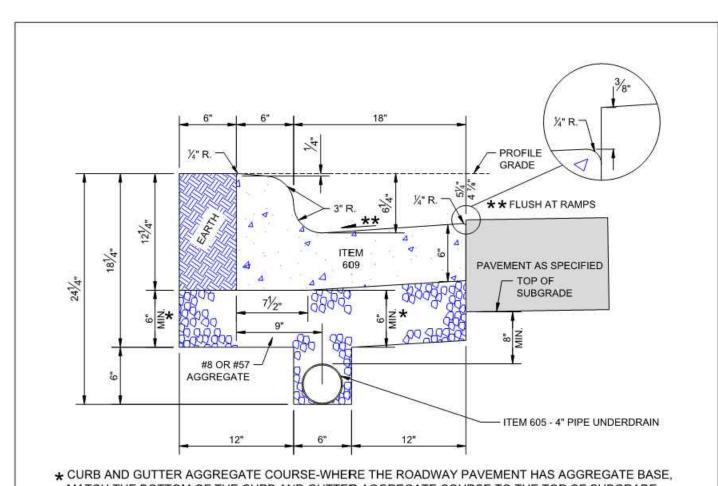


09/13/2022

2/3/23 VILLAGE SUBMITTAL 20224880.001A REV. DATE DESCRIPTION







- MATCH THE BOTTOM OF THE CURB AND GUTTER AGGREGATE COURSE TO THE TOP OF SUBGRADE. ENSURE ROADWAY SUB BASE MEETS UNDERDRAIN AGGREGATE.
- * * AT CURB RAMP LOCATIONS, THE GUTTER SLOPE SHALL NOT EXCEED 4.7%. TRANSITION GUTTER OVER 3 FT TO MATCH EXISTING CURB & GUTTER SLOPE. THE PAVEMENT SHALL BE FLUSH AT THE GUTTER IN FRONT OF CURB RAMPS. CURB RAMPS SHALL BE BUILT PER STD DWG 2319.
- IF THE TOP OF THE SUBGRADE IS BELOW THE BOTTOM OF THE CURB, THE UNDERDRAIN SHALL BE ADJUSTED TO KEEP THE TOP OF THE UNDERDRAIN AT LEAST 8" BELOW THE TOP OF THE SUBGRADE; AGGREGATE DEPTH BETWEEN BOTTOM OF CURB AND TOP OF UNDERDRAIN MAY VARY IF THIS OCCURS.
- SUBGRADE COMPACTION SHALL BE COMPLETED BEFORE UNDERDRAIN INSTALLATION.
- WHEN A CURB AND GUTTER INLET IS INSTALLED, THE TOP OF THE CASTING SHALL BE THE SAME AS THE TOP OF CURB ELEVATION. THE EDGE OF PAVEMENT SHALL BE 3/8" HIGHER THAN THE GRATE WHEREVER
- FOR REPLACEMENT WORK, THE CURB SHALL BE REMOVED AT AN EXISTING JOINT OR NO CLOSER THAN 5 FEET FROM AN EXISTING JOINT.
- 1/2" EXPANSION MATERIAL WILL BE INSTALLED BEHIND THE CURB WHEN A CONCRETE WALK, DRIVE, OR
- OTHER ITEM IS ADJOINING IT.

WHEN CONNECTING TO AN EXISTING COMBINATION CURB AND GUTTER, TRANSITION THE GUTTER PAN AS REQUIRED, OVER A DISTANCE OF 10 FEET

1.26 C.F. CONCRETE PER L.F.

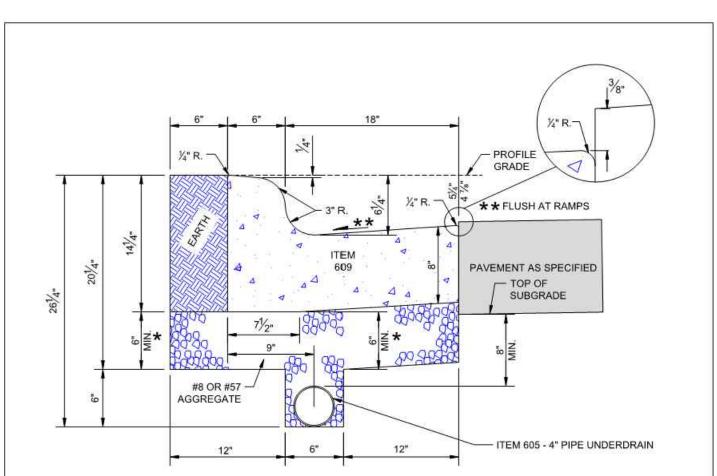
MAXIMUM, TO MAINTAIN POSITIVE DRAINAGE.

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE

GUTTER, TYPE STANDARD DIVISION OF DESIGN AND CONSTRUCTION

COMBINATION CURB &

STD DWG 2010 07/01/2021 CITY ENGINEER SHT 1 OF 1



- * CURB AND GUTTER AGGREGATE COURSE-WHERE THE ROADWAY PAVEMENT HAS AGGREGATE BASE. MATCH THE BOTTOM OF THE CURB AND GUTTER AGGREGATE COURSE TO THE TOP OF SUBGRADE. ENSURE ROADWAY SUB BASE MEETS UNDERDRAIN AGGREGATE.
- * * AT CURB RAMP LOCATIONS, THE GUTTER SLOPE SHALL NOT EXCEED 4.7%. TRANSITION GUTTER OVER 3 FT TO MATCH EXISTING CURB & GUTTER SLOPE. THE PAVEMENT SHALL BE FLUSH AT THE GUTTER IN FRONT OF CURB RAMPS. CURB RAMPS SHALL BE BUILT PER STD DWG 2319.
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- 1/2" EXPANSION MATERIAL WILL BE INSTALLED BEHIND THE CURB WHEN A CONCRETE WALK, DRIVE, OR
- OTHER ITEM IS ADJOINING IT. WHEN CONNECTING TO AN EXISTING COMBINATION CURB AND GUTTER, TRANSITION THE GUTTER PAN

MAXIMUM, TO MAINTAIN POSITIVE DRAINAGE.

1.59 C.F. CONCRETE PER L.F.

COMBINATION CURB & AS REQUIRED, OVER A DISTANCE OF 10 FEET **GUTTER, TYPE SPECIAL 8"**

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DIVISION	OF DESIGN AND CONSTRUCTION	1
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STD DWG 07/01/2021 SHT 1 OF 1

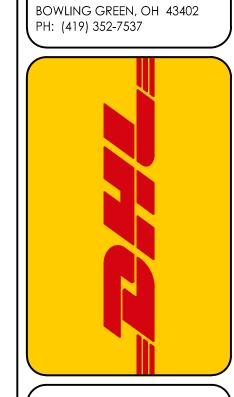


2/3/23 VILLAGE SUBMITTAL REV. DATE DESCRIPTION

POGGEMEYER DESIGN GROUP

A KLEINFELDER COMPANY

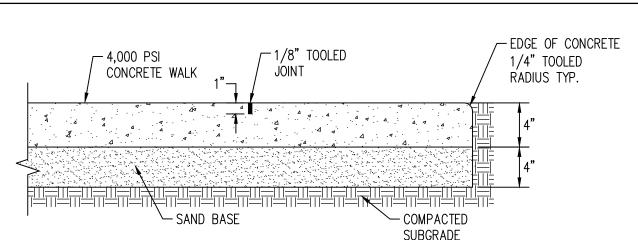
1168 NORTH MAIN STREET



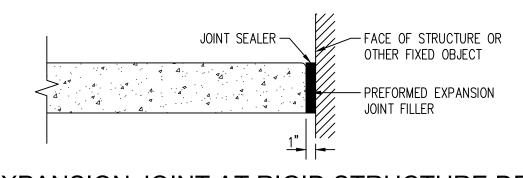
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09/13/2022 PROJECT NUMBER 20224880.001A

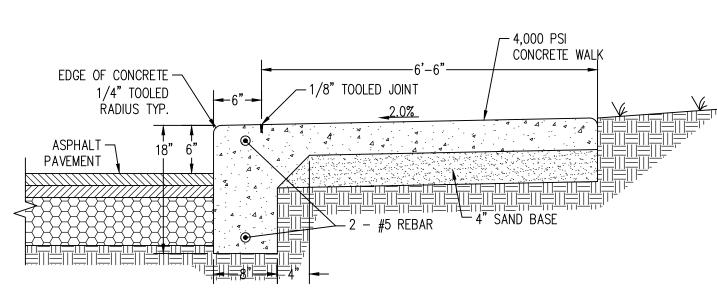


SIDEWALK CONTROL JOINT NOT TO SCALE

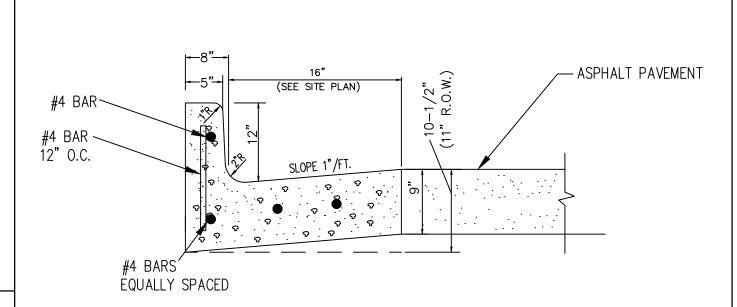


EXPANSION JOINT AT RIGID STRUCTURE DETAIL

THIS JOINT TO BE USED WHENEVER CONCRETE PAVEMENT ABUTS A RIGID STRUCTURE (RETAINING WALLS, BUILDINGS WALLS, ETC.)



INTEGRAL CONCRETE CURB & WALK NOT TO SCALE



EXPANSION JOINTS REQUIRED AT ALL STRUCTURES AND CURB RETURNS. MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'. CONCRETE TO BE 3,000 PSI AT 28 DAYS.

TYPE 1 CURB & GUTTER NOT TO SCALE

WHEN PAVEMENT SLOPE AWAY FROM CURB & GUTTER, MAKE GUTTER PAN FLAT (0%)

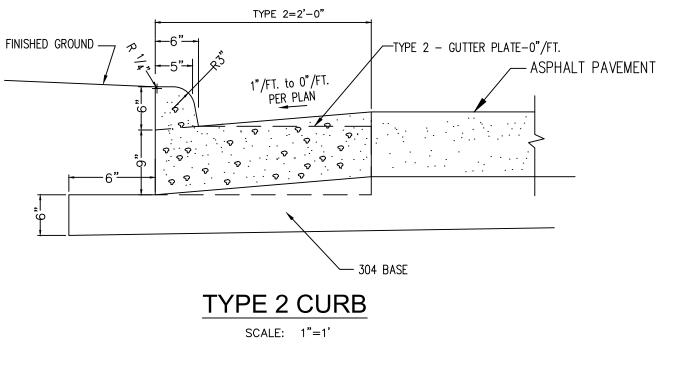
JOINT SEALER

ITEM 705.03

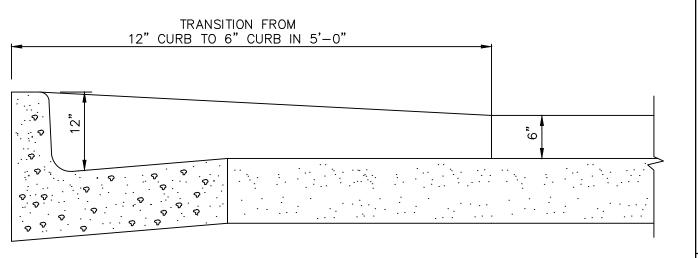
ODOT CURB TYPE 6

NOT TO SCALE

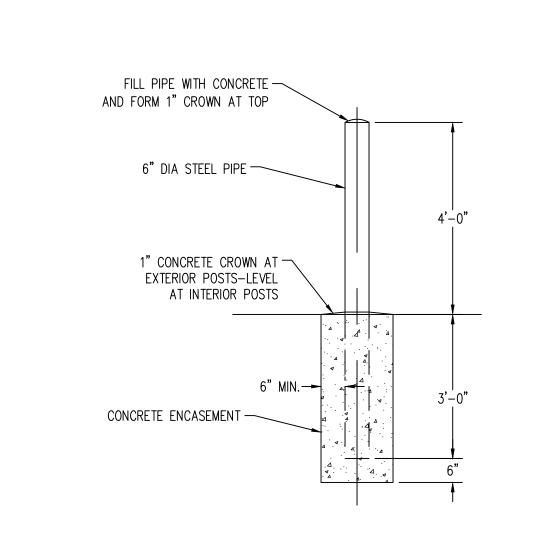
- PREFORMED EXPANSION JOINT FILLER, ODOT



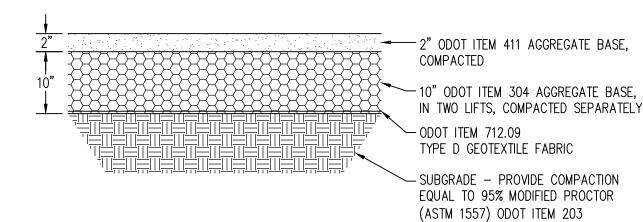
MAKE GUTTER PAN FLAT (0%)



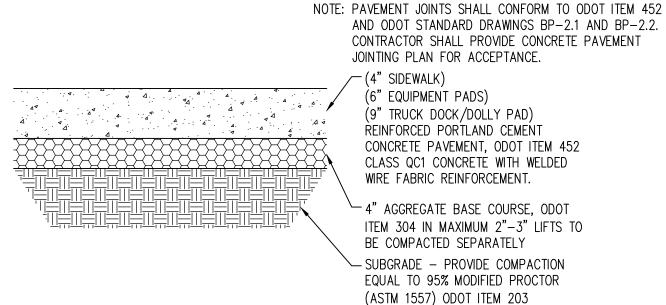
CURB TRANSITION DETAIL



BOLLARD DETAIL NOT TO SCALE



TYPICAL AGGREGATE PAVEMENT SECTION NOT TO SCALE

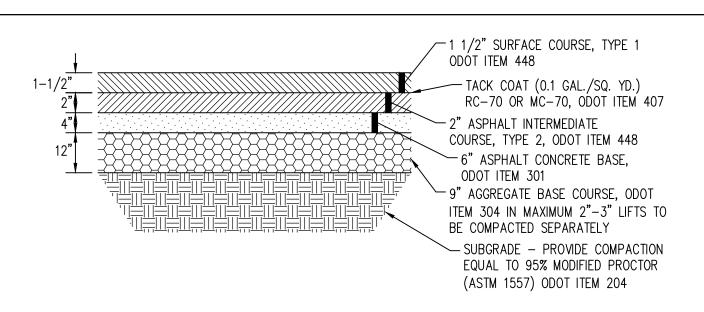


TYPICAL CONCRETE PAVEMENT SECTION NOT TO SCALE

-1-1/2" SURFACE COURSE, TYPE 1 ODOT ITEM 448 TACK COAT (0.1 GAL./SQ. YD.)

RC-70 OR MC-70, ODOT ITEM 407 -2-1/2" ASPHALT INTERMEDIATE COURSE, TYPE 2, ODOT ITEM 448 ─8" AGGREGATE BASE COURSE, ODOT ITEM 304 IN MAXIMUM 2"-3" LIFTS TO BE COMPACTED SEPARATELY - SUBGRADE - PROVIDE COMPACTION EQUAL TO 95% MODIFIED PROCTOR (ASTM 1557) ODOT ITEM 204

TYPICAL LIGHT DUTY ASPHALT PAVEMENT SECTION NOT TO SCALE



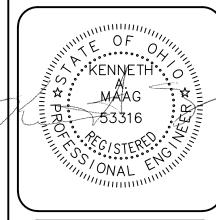
TYPICAL HEAVY DUTY ASPHALT PAVEMENT SECTION NOT TO SCALE



2/3/23 VILLAGE SUBMITTAL

REV. DATE DESCRIPTION

NOT TO SCALE



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1168 NORTH MAIN STREET

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BOWLING GREEN, OH 43402

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SHVILLE

DATE 09/13/2022

PROJECT NUMBER 20224880.001A

WHEN PAVEMENT SLOPE AWAY FROM CURB & GUTTER,

NOT TO SCALE

- ENSURE PNA DOWEL ALIGNER IS USED. PNA CONTACT INFORMATION IS 1-800-542-0214, PNA-INC.COM — DOWELS TO BE ONE OF THE FOLLOWING: 1. FOR 8" SLAB, 1" DIA. x 13" DOWEL SPACED AT 18" O.C. 2. FOR 9" SLAB, 1" DIA. x 13" DOWEL SPACED AT 12" O.C. INSTALL USING PNA DOWEL ALIGNER. DO NOT GREASE DOWEL, LIGHTLY OIL FULL LENGTH OF DOWEL TO ACT AS A BOND BREAKER - INITIAL POUR 8"(IN TRAILER PARKING AREA) IMMEDIATELY AFTER REMOVING BULKHEAD, APPLY CURING COMPOUND TO PAVEMENT VERTICAL EDGE AT A COVERAGE RATE OF — 300 SF MAX. PER GALLON. DO NOT ALLOW CURING COMPOUND TO GET ON TOP OF SLAB.

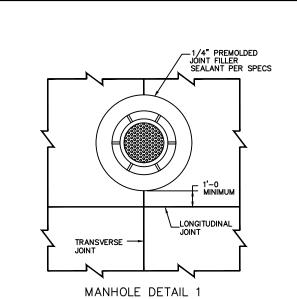
PAVEMENT

NOTE: THIS JOINT TO BE USED WHEN POURING CEASES FOR MORE THAN 30 MINUTES AND TO BE LOCATED AT A PLANNED JOINT.

CONSTRUCTION JOINT

REFERENCE ODOT STANDARD DRAWING BP-2.2

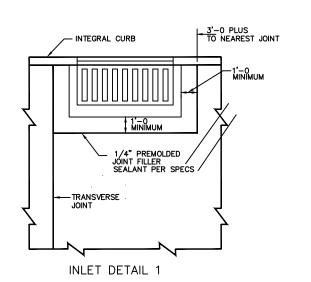
1. ENSURE TESTING AGENCY VERIFIES AGGREGATE BASE AND SUBGRADE IS ACCEPTABLE
TO THE GEOTECHNICAL ENGINEER. ENSURE TESTING AGENCY VERIFIES AGGREGATE BASE
IS COMPACTED TO THE SPECIFIED MAXIMUM DRY DENSITY AS DETERMINED BY THE
GEOTECHNICAL ENGINEER JUST PRIOR TO PLACING PAVEMENT BASE SURFACE IS SMOOTH AND PLANAR IMMEDIATELY PRIOR TO PLACING CONCRETE. 2. COATING TO BE STATE DOT APPROVED COATING AND INSTALLATION PROCEDURES.

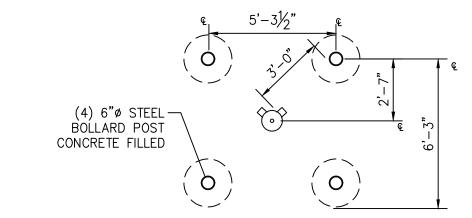


1/4" WIDE BY 1" DEEP SAWCUT.

FILL WITH PAVEMENT SEALANT
MAKE SAW CUT IMMEDIATELY PRIOR
TO INSTALLING PAVEMENT SEALANT.

 1/4" PREMOLDED
 JOINT FILLER
 SEALANT PER SPECS TRANSVERSE -MANHOLE DETAIL 2





BOLLARD SPACING DETAIL