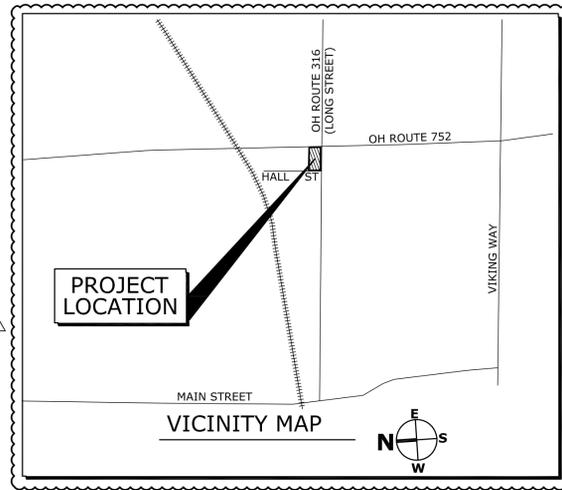


SERVICE DEPARTMENT, SUPERVISOR	DATE
VILLAGE ENGINEER, VILLAGE OF ASHVILLE	DATE
MAYOR, VILLAGE OF ASHVILLE	DATE
VILLAGE ADMINISTRATOR, VILLAGE OF ASHVILLE	DATE

APPROVAL OF THESE PLANS DOES NOT CONSTITUTE ASSURANCE TO OPERATE AS INTENDED. THE REVIEWER DOES NOT ACCEPT RESPONSIBILITY FOR THE INTEGRITY OF THE PLANS.

SHEET NO.	DESCRIPTION
C1.1	DEMOLITION PLAN
C2.1	SITE PLAN
C3.1	GRADING PLAN
C4.1	UTILITY PLAN
C5.1	BMP PLAN
C6.1	GENERAL NOTES, ABBREVIATIONS & LEGEND
C6.2	DETAIL SHEET
C6.3	DETAIL SHEET
C6.4	DETAIL SHEET
C6.5	DETAIL SHEET

PLAN REVISIONS		
DESCRIPTION	DATE	INITIALS



**SURVEY INFORMATION**  
 THE SURVEY UTILIZED AS THE BASIS FOR THIS DESIGN WAS CONDUCTED ON 2-28-2016 BY CARDINAL ENGINEERING AND LAND SURVEYING. RELEVANT SURVEY DATA IS AS FOLLOWS:

**BASIS OF BEARINGS**  
 BASIS OF BEARING WAS ESTABLISHED WITH OHIO SOUTH (3402) 0007 VRS BENCHMARK W-187.

**BASIS OF ELEVATION**  
 BASIS OF ELEVATION WAS ESTABLISHED BY RECORDED SPIKE BENCHMARK IN POWER POLE, VERTICAL DATUM BASED ON NAVD83, ELEVATION=716.48

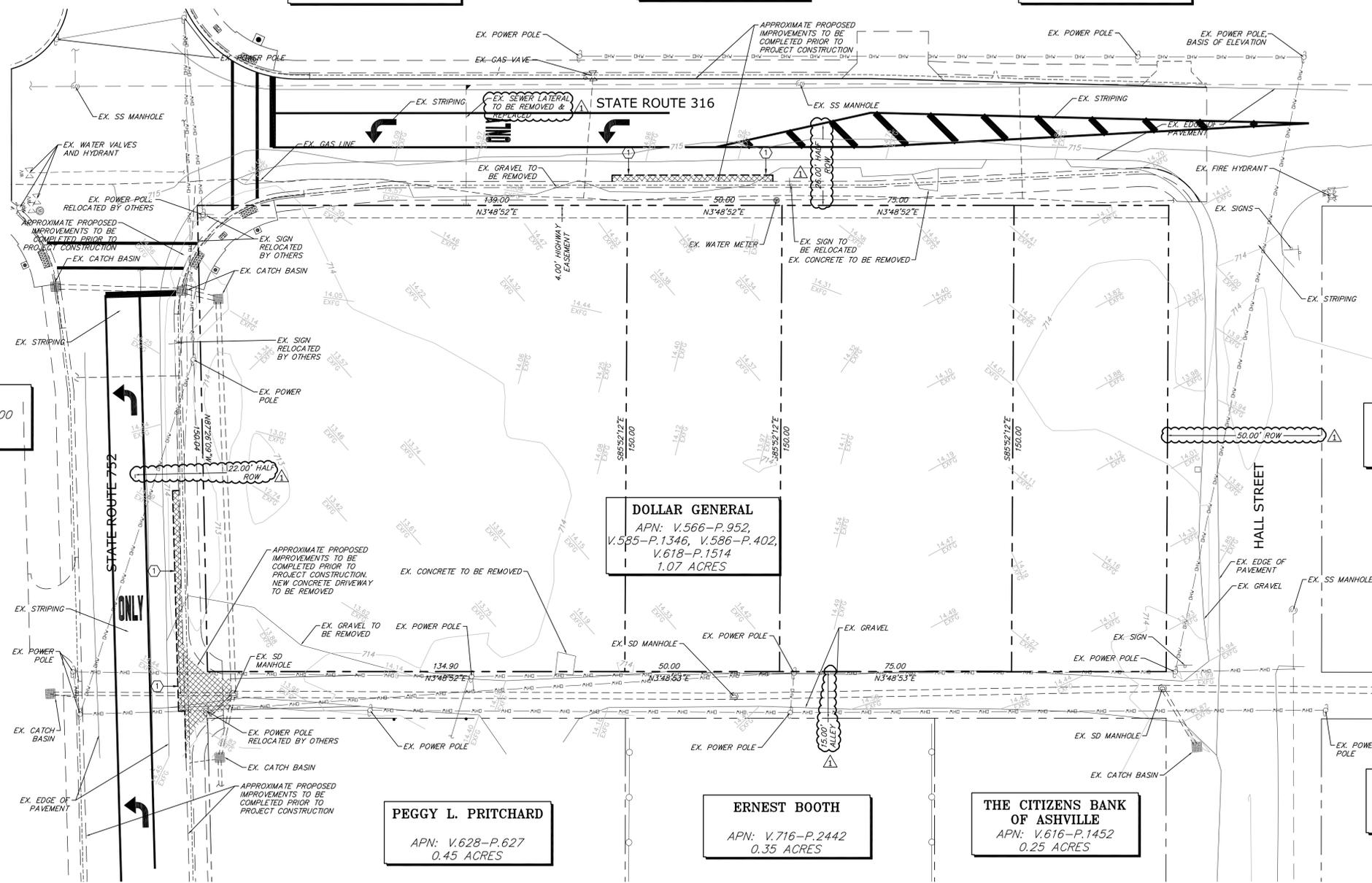
UTILITY PROVIDER	UTILITY
POWER	SOUTH CENTRAL POWER
TELEPHONE	FRONTIER
GAS	COLUMBIA GAS
WATER	VILLAGE OF ASHVILLE
SEPTIC	VILLAGE OF ASHVILLE

- NOTES:**
1. REFERENCE "GENERAL NOTES" ON SHEET C6.1
  2. REFERENCE "ABBREVIATIONS" ON SHEET C6.1
  3. REFERENCE "LEGEND" ON SHEET C6.1
  4. ADD 700 TO ALL FINISHED GRADE OR INVERT ELEVATIONS
  5. COORDINATE WITH POWER COMPANY ON RELOCATION OF EXISTING POWER POLES AND OVERHEAD LINES.
  6. EXISTING TREES ONSITE TO BE REMOVED SHALL BE REMOVED WITH ROOTS, NO GRINDING OF STUMP
- CONSTRUCTION NOTES:**
1. SAWCUT AS PER DETAIL 1, SHEET C6.2

**JAMES F. METS**  
 APN: D1300300005200  
 0.55 ACRES

**VICTOR RIZZARDI A & JOAN M**  
 APN: D1600300005300  
 0.93 ACRES

**GARY ETAL**  
 APN: D1300300005301  
 0.22 ACRES



**BANK SAVINGS**  
 APN: D1300300011200  
 1.60 ACRES

**DOLLAR GENERAL**  
 APN: V.566-P.952, V.585-P.1346, V.586-P.402, V.618-P.1514  
 1.07 ACRES

**RYAN ALREDGE**  
 APN: D1300300002800-D1300300003100  
 0.34 ACRES

**PEGGY L. PRITCHARD**  
 APN: V.628-P.627  
 0.45 ACRES

**ERNEST BOOTH**  
 APN: V.716-P.2442  
 0.35 ACRES

**THE CITIZENS BANK OF ASHVILLE**  
 APN: V.616-P.1452  
 0.25 ACRES

**HALL INVESTMENT CO**  
 APN: D1300050101400-D1300050101300  
 0.17 ACRES

**DEMOLITION PLAN**

SCALE: 1" = 20'-0"



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 10451 Double R Boulevard, Reno, NV 89521  
 tel 775-824-9988  
 fax 775-824-9986  
 www.tectonicsdesigngroup.com

**Dollar General Ashville, Ohio**  
**CROSS DEVELOPMENT, LLC**  
 420 SOUTHFORK DR. LEWISVILLE, TEXAS 75057

DESIGNER: TECTONICS DESIGN GROUP  
 PROJECT/CLIENT: #1: 16047  
 DATE: 04/18/16  
 SUBMITTAL: 04/18/16 80% REVIEW  
 04/28/16 FOR PERMIT  
 05/19/16 SEWER REVISION  
 09/09/16 VILLAGE OF ASHVILLE REVIEW COMMENTS

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 DESIGNED: S.W.T.  
 CHECKED/STAMPED: MATT K. RASMUSSEN, P.E.

SHEET TITLE: DEMOLITION PLAN  
 SHEET: C1.1

**NOTES:**

- PERMANENT STRIPING, BIKE LANES, AND MARKINGS SHALL BE IN ACCORDANCE WITH THE "OHIO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- PARKING SPACE LINES SHALL BE 4-INCH WIDE, YELLOW STRIPES.
- HANDICAP PARKING SPACES SHALL BE MARKED WITH A PAINTED BLUE WHEELCHAIR SYMBOL.
- HANDICAP PARKING AISLE LINES SHALL HAVE 4-INCH WIDE, BLUE STRIPES AT A 45 DEGREE ANGLE AND AT 18-INCHES ON CENTER.
- ALL EXTERIOR CONCRETE EXPOSED TO FREEZING AND THAWING CONDITIONS SHOULD BE RATED AT 4,500 PSI MINIMUM.
- REFERENCE "GENERAL NOTES" ON SHEET C6.1
- REFERENCE "ABBREVIATIONS" ON SHEET C6.1
- REFERENCE "LEGEND" ON SHEET C6.1

**CONSTRUCTION NOTES:**

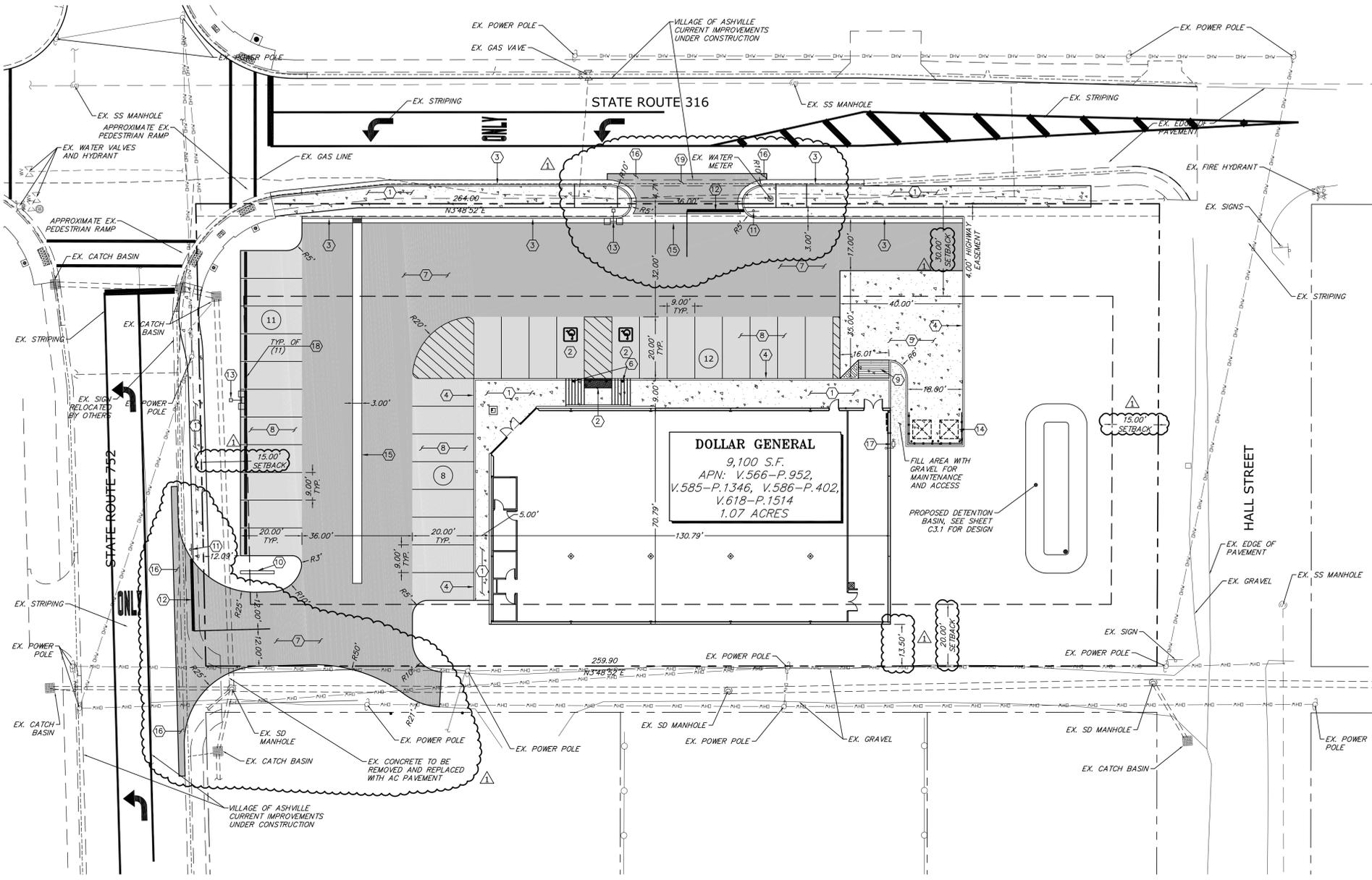
- CONSTRUCT SIDEWALK PER DETAIL 2, SHEET C6.2
- CONSTRUCT ACCESSIBLE RAMP AND STALL AS PER DETAIL 3, SHEET C6.2
- CONSTRUCT TYPE 1 P.C.C. CURB & GUTTER AS PER DETAIL 6, SHEET C6.2
- CONSTRUCT P.C.C. MEDIAN CURB PER DETAIL 7, SHEET C6.2
- CONSTRUCT 7" CONCRETE SECTION OVER 6" CLASS 2 AGGREGATE BASE AS PER DETAIL 8, SHEET C6.2. FOR JOINTS IN CONCRETE SEE DETAIL 1 & 1A ON SHEET C6.3
- INSTALL ACCESSIBLE PARKING STALL SIGNAGE/6" BOLLARD AS PER DETAIL 2, SHEET C6.3
- CONSTRUCT HEAVY ASPHALT SECTION OF 4" ASPHALTIC CONCRETE PAVEMENT, PG 64-22 OVER 8" CLASS 2 AGGREGATE BASE AS PER DETAIL 3, SHEET C6.3
- CONSTRUCT LIGHT ASPHALT SECTION OF 3" ASPHALTIC CONCRETE PAVEMENT, PG 64-22 OVER 6" CLASS 2 AGGREGATE BASE AS PER DETAIL 4, SHEET C6.3
- CONSTRUCT DELIVERY RAMP AS PER DETAIL 5, SHEET C6.3

**10. 11' LONG BY 8" HIGH SITE MONUMENT SIGN, COORDINATE WITH ELECTRICAL.**

- INSTALL TYPE R1-1 30"x30" STOP SIGN AS PER OHIO M.U.T.C.D. STANDARDS AND POST AS PER DETAIL 6, SHEET C6.3. ENGINEER TO LOCATE STOP SIGN AND STOP BAR IN FIELD PRIOR TO CONSTRUCTION.
- CONSTRUCT 12" WIDE WHITE STOP BAR AND STOP LEGEND AS PER M.U.T.C.D. STANDARDS
- INSTALL SITE LIGHTING, COORDINATE LOCATION AND SIZE WITH LIGHTING PLANS. SEE STRUCTURAL FOR LIGHT POLE BASE DETAIL.
- INSTALL TRASH AREA, SEE ARCHITECTURAL FOR DESIGN
- INSTALL 3" LONGITUDINAL VALLEY GUTTER AS PER DETAIL 4, SHEET C6.4
- CONSTRUCT PAVEMENT PATCH AS PER DETAIL 1, SHEET C6.3
- INSTALL GAS METER, COORDINATE LOCATION & DESIGN WITH LOCAL GAS PURVEYOR
- INSTALL PRECAST CONCRETE WHEEL STOP 2' FROM EDGE OF PAVEMENT
- CONSTRUCT DRIVEWAY APPROACH AS PER DETAIL 5, SHEET C6.5

PROJECT LEGEND	
A.P.N.:	V.566-P.952, V.585-P.1346, V.586-P.402
PARCEL ZONING:	GB- GENERAL BUSINESS
SITE SETBACKS:	
FRONT YARD:	= 30 FEET
SIDE YARD:	= 15 FEET
BACK YARD:	= 20 FEET

PARKING SUMMARY	
PARKING REQUIRED: VILLAGE OF ASHVILLE ZONING ORDINANCE - CHAPTER 1169	
INDIVIDUAL PARKING REQUIREMENTS RETAIL 9,100 S.F. / 400 S.F.*	= 23 SPACES
HANDICAP PARKING REQUIREMENTS: 1:25 FOR FIRST 100	= 2 SPACES
PARKING PROVIDED:	
STANDARD PARKING PROVIDED	= 29 SPACES
HANDICAP PARKING PROVIDED: VAN (WITH 8' MIN ACCESS)	= 2 SPACES
TOTAL SPACES PROVIDED:	= 31 SPACES
*PARKING VARIANCE WILL BE REQUIRED BY VILLAGE OF ASHVILLE.	



**DOLLAR GENERAL**  
 9,100 S.F.  
 APN: V.566-P.952,  
 V.585-P.1346, V.586-P.402,  
 V.618-P.1514  
 1.07 ACRES

**SITE PLAN**  
 SCALE: 1" = 20'-0"



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 DRAWN: R.W.G.  
 DESIGNED: S.W.T.  
 CHECKED/STAMPED: MATT K. RASMUSSEN, P.E.  
 STAMP:  
 DESIGNER:  
 PROJECT/CLIENT: Dollar General, Ashville, Ohio  
 SHEET TITLE: SITE PLAN  
 SHEET: C2.1  
 SUBMITTAL RECORD: #1: 16047  
 DATE: 04/18/16 SUBMITTAL  
 04/18/16 80% REVIEW  
 04/28/16 FOR PERMIT  
 05/19/16 SEWER REVISION  
 09/09/16 VILLAGE OF ASHVILLE REVIEW COMMENTS  
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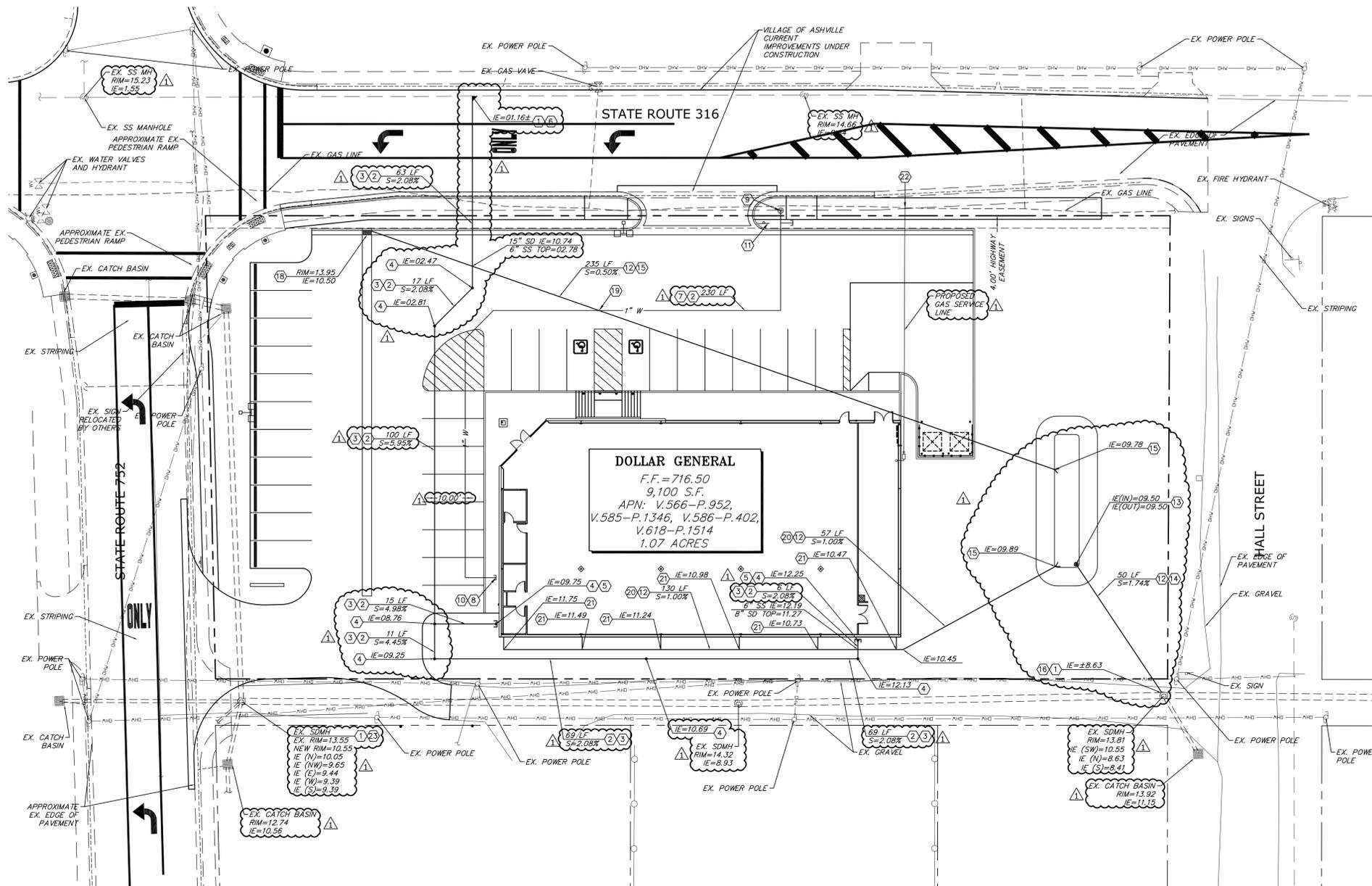


**NOTES:**

1. REFERENCE "GENERAL NOTES" ON SHEET C6.1
2. REFERENCE "ABBREVIATIONS" ON SHEET C6.1
3. REFERENCE "LEGEND" ON SHEET C6.1
4. ADD 700 TO ALL FINISHED GRADE OR INVERT ELEVATIONS

**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL POTHOLE AND VERIFY EXACT LOCATION OF UTILITY PRIOR TO THE CONSTRUCTION OF ANY IMPROVEMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS FOUND IN THE FIELD
2. **CONSTRUCT WATER & SEWER TRENCH AS PER DETAIL 1, SHEET C6.2**
3. CONSTRUCT 6" SDR 35 PVC SANITARY SEWER LATERAL AS PER DETAIL 6, SHEET C6.4. LENGTH AND SLOPE AS SHOWN ON PLANS.
4. CONSTRUCT SANITARY SEWER CLEAN OUT AS PER DETAIL 7, SHEET C6.4.
5. FOR INTERNAL CONTINUATION OF SANITARY SEWER, SEE PLUMBING PLANS
6. REMOVE EXISTING 6" SANITARY SEWER STUB AND REPLACE WITH NEW SANITARY SEWER LATERAL, COORDINATE WITH VILLAGE OF ASHVILLE DIVISION
7. INSTALL 1" HDPE DOMESTIC WATER SERVICE, PIPE LENGTH AS SHOWN ON PLANS
8. FOR INTERNAL CONTINUATION OF DOMESTIC WATER SERVICE, SEE PLUMBING PLAN
9. CONNECT TO EXISTING WATER SERVICE & INSTALL 1" DOMESTIC WATER METER AS PER DETAIL 6, SHEET C6.5. COORDINATE CONNECTION WITH VILLAGE OF ASHVILLE
10. CONSTRUCT DOMESTIC BACKFLOW PREVENTER INSIDE BUILDING, SEE PLUMBING PLANS AND REFERENCE DETAIL 8, SHEET C6.5
11. CONSTRUCT IRRIGATION STUB OUT WITH BACKFLOW PREVENTER. CONTRACTOR TO COORDINATE PER REFERENCE DETAIL 8, SHEET C6.5
12. CONSTRUCT TYPICAL TRENCH EXCAVATION AND BACKFILL AS PER DETAIL 7, SHEET C6.3
13. INSTALL 12" STAND PIPE WITH BEEHIVE GRATE AS PER DETAIL 3, SHEET C6.4
14. CONSTRUCT 12" SDR 35 PVC STORM DRAIN PIPE, LENGTH AND SLOPE AS SHOWN ON PLANS
15. CONSTRUCT 15" SDR 35 PVC STORM DRAIN PIPE, LENGTH AND SLOPE AS SHOWN ON PLANS
16. **TE INTO TO EXISTING STORM DRAIN MANHOLE**
17. CONSTRUCT FLARED END SECTION WITH RIP RAP AT OUTFALL AS PER DETAIL 2 & 3, SHEET C6.5
18. CONSTRUCT TYPE 4R CATCH BASIN AS PER DETAIL 4, SHEET C6.5
19. CONSTRUCT WATER/SEWER MAIN CROSSING AS PER DETAIL 2, SHEET C6.4
20. INSTALL 8" ADS TRUNK LINE, LENGTH AND SLOPE AS SHOWN ON PLANS
21. CONSTRUCT ADS TEE CONNECTION TO DOWNSPOUT AS PER DETAIL 1, SHEET C6.5
22. CONNECT TO EXISTING GAS LINE FOR GAS SERVICE. COORDINATE SERVICE LINE ROUTING, TAP LINE SIZE & DESIGN WITH LOCAL GAS PURVEYOR
23. ADJUST EXISTING MANHOLE RIM TO NEW FINISH GRADE ELEVATION



**UTILITY PLAN**  
SCALE: 1" = 20'-0"

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 DRAWN: R.W.G.  
 DESIGNED: S.W.T.  
 CHECKED/STAMPED: MATT K. RASMUSSEN, P.E.  
 STAMP:  
 DESIGNER:  
 PROJECT/CLIENT: Dollar General, Ashville, Ohio  
 #1: 16047  
 DATE: 04/18/16 SUBMITTAL  
 04/18/16 80% REVIEW  
 04/28/16 FOR PERMIT  
 05/19/16 SEWER REVISION  
 09/09/16 VILLAGE OF ASHVILLE REVIEW COMMENTS  
 SHEET TITLE: UTILITY PLAN  
 SHEET: C4.1



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 DESIGNED: S.W.T.  
 CHECKED/STAMPED: MATT K. RASMUSSEN, P.E.

STAMP:

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DESIGNER:

**Dollar General**  
 Ashville, Ohio

**CROSS DEVELOPMENT, LLC**  
 420 SOUTH FORK DR. LEWISVILLE, TEXAS 75057

PROJECT/CLIENT: #1: 16047

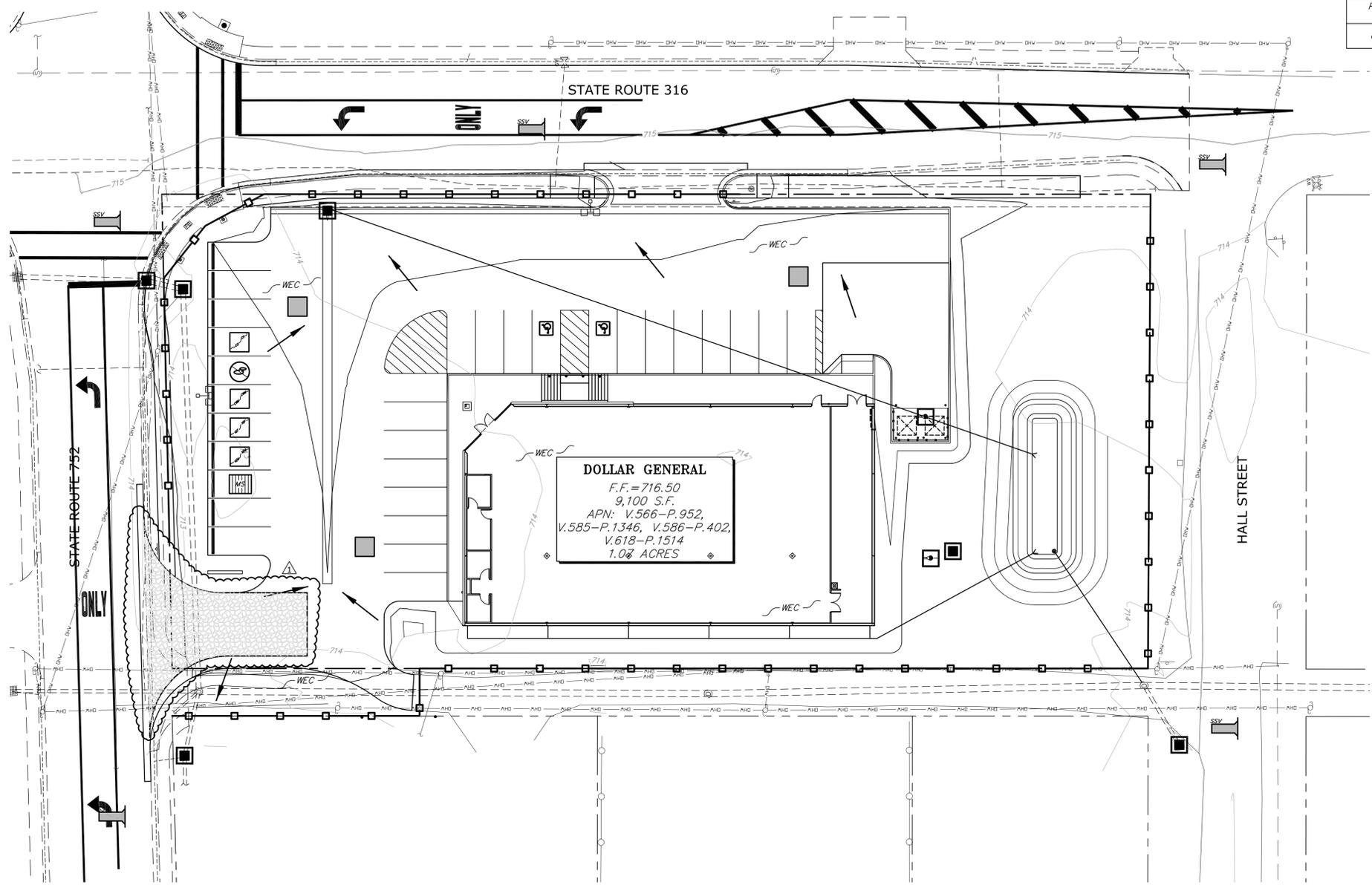
DATE:	SUBMITTAL
04/18/16	80% REVIEW
04/28/16	FOR PERMIT
05/19/16	SEWER REVISION
09/09/16	VILLAGE OF ASHVILLE REVIEW COMMENTS

SHEET TITLE: BMP PLAN

SHEET: **C5.1**

LEGEND		
BMP	#	SYMBOL
REVEGETATION	SS-2	PEV
WIND EROSION AND DUST CONTROL	WE-1	WEC
SILT FENCES	SC-1	SC-1
STABILIZED CONSTRUCTION SITE ENTRANCE / EXITS	TC-1	TC-1
STORM DRAIN OUTLET PROTECTION	SS-10	SS-10
STORM DRAIN INLET PROTECTION	SC-10	SC-10
STOCKPILE MANAGEMENT	WM-3	WM-3
STREET SWEEPING AND VACUUMING	SC-7	SC-7
SPILL PREVENTION AND CONTROL	WM-4	WM-4
CONCRETE WASTE MANAGEMENT	WM-8	WM-8
VEHICLE AND EQUIPMENT FUELING	NS-9	NS-9
VEHICLE AND EQUIPMENT MAINTENANCE	NS-10	NS-10
MATERIAL DELIVERY STORAGE	WM-1	WM-1
PAVEMENT CONSTRUCTION MANAGEMENT	NS-3	NS-3
GRADED FLOW DIRECTION		→

- STORMWATER NOTES:**
1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATE IN, THE PUBLIC RIGHT OF WAYS OF THE VILLAGE OF ASHVILLE AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
  2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED BY THE VILLAGE OF ASHVILLE.
  3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
  4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTION MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES.
  5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.
  6. REFER TO THE VILLAGE OF ASHVILLE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MANUAL FOR FURTHER CONSTRUCTION SITE BEST MANAGEMENT PRACTICES DEFINITIONS.



BMP PLAN  
 SCALE: 1" = 20'-0"



Ohio Utilities Protection Service

**Call 811**  
 before you dig

1"=20'-0" DOLLAR GENERAL 16047 C51

# GENERAL NOTES

- GEN 1 The Village of Ashville requirements, together with the latest edition of the State of Ohio Department of Public Safety's Manual for Manufacture of Standard Material Specifications, shall govern all construction items, material, workmanship, etc. that are a part of this plan, insofar as the date of contract, unless otherwise noted. Except as such specifications are modified by 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 Standard City of Columbus Detail Construction Drawings. If there are any discrepancies, the Village of Ashville requirements shall govern.
- GEN 2 Any modification to the specifications or changes to work as shown on these drawings must have been 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 install, maintain, and supervise all safety requirements, precautions, and programs in connection with the work. The contractor or subcontractor shall also be fully responsible for 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 ascertain 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 these drawings. All pertinent standards and 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 start of any work on these drawings. The letter shall state the location, location, location, protection and restoration of all existing utilities and appearances whether shown on these plans or not. The contractor shall protect all utilities or structures prior to construction to prevent any damage to the property. The contractor shall coordinate and 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 (DURS) at 1-800-362-2764 three (3) working days prior to the start of any work on these drawings. The contractor shall call 1-531-54, Ohio Revised Code (ORC) shall notify all utility companies within forty-eight (48) hours prior to work on the proposed drawings. The contractor shall be responsible for the excavation to recover exact field location of utilities. It shall be the responsibility of the contractor to locate all existing utilities which conflict with the proposed improvements shown on these plans.
- GEN 11 The following utilities and services are located within the work limits of this project and do subscribe to a regulated underground utility services:
 

Verizon 600 Lancaster Pike Circleville, OH 43113 (740) 474-5023	COLUMBIA GAS TRANSMISSION 1440 N. State St. COLUMBUS, OH 43232 (614) 653-4422
American Electric Power 1320 Sugar Grove Road Lancaster, Ohio 43130 (740) 689-4700	3SC 145 West Wheeling Street Lancaster, Ohio 43130 (740) 687-6656
Time Warner Communications 1315 Granville Pike Lancaster, Ohio 43130 (740) 683-9685	Waterline 150 Cherry Street, Ashville, Ohio 43103 (740) 383-6233
Columbia Gas of Ohio 843 Platt Avenue Chillicothe, Ohio 45601 (614) 772-9224	Waterline 200 East Station Street, Ashville Ohio 43103 (740) 383-6387
- GEN 12 The Village of Ashville does not subscribe or is a member of DURS.
- GEN 12 The contractor is specifically cautioned that the location and/or elevation of existing utilities 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 relied on as being exact or complete. The Village of Ashville 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 companies to determine the location of utilities. An excavation to recover exact field location of utilities. It shall be the responsibility of the contractor to locate all existing utilities which conflict with the proposed improvements shown on these plans.
- 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 in advance of any grading. The contractor shall 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, grates, etc. to be utilized for dedicated public utilities or roadways must be approved by the Village of Ashville Engineer.
- GEN 16 All field lines 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 approved 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 Department.
- 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 his 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 to the appropriate authority 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 shall be protected and the contractor shall 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 repaired 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 The contractor shall not order material or perform work for items designated by plan notes as "at Engineer's Option". The contractor shall be responsible for the actual work locations and quantities used for such items shall be incorporated into the final change order governing completion of this project.
- GEN 24 All items of work called for on the plans for which no specific method of payment is provided shall be performed by the contractor and the cost of all shall be included in the price bid for the various related items.
- GEN 25 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 appurtenances structures included in this project.
- GEN 26 Approvals of construction plans is contingent on all permit requirements required for the construction of the work being secured and shown on the final plan for recording. No work shall be started or an easement will be allowed to proceed until this has been done.
- GEN 27 Twenty-four (24) hour advance notification is required for all work requiring inspection, testing, or approval by the Village Engineer or Building Department.
- GEN 28 The contractor is responsible to notify the Village Engineer and request a final punch list inspection of the site one of all the items on the approved development plans has been completed.
- GEN 29 The contractor shall sufficiently expose a 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 30 The developer is responsible for having "as-built" construction drawings sent to the Village Engineer 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 city pipe construction public utility structures.
- GEN 31 Access to all adjoining properties shall be maintained at all times, unless otherwise shown on the drawings.
- GEN 32 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 33 All trees, either standing or fallen, and stumps within the construction limits shall be removed under the lump sum bid item 201. Clearing and grubbing unless directed otherwise.
- GEN 34 All utility coverings, the backfill shall consist of compacted granular material in accordance with C.M.C.E. 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.C.E. Item 912 extending at least three (3) feet beyond the back of curb or edge of pavement. The cost to be included in the price bid for the related pipe, C.M.C.E. Item 912 may be substituted.
- GEN 35 In the event that it becomes necessary, the Village of Ashville shall perform work on an immediate nature required of the contractor by this contract because of the failure or refusal of the contractor to perform such work, the contractor shall reimburse the Village of Ashville at the cost of labor, materials and equipment necessary to perform such work. The Village of Ashville shall be required to notify or attempt to notify the designated contractor of the necessity of the necessary to perform such work. In the event of an emergency, no notification is required. If the contractor refuses or fails within a reasonable time to perform or cause the performance of such work, the Village of Ashville shall be reimbursed by the contractor in the amount provided herein. Reasonable time for all streets involved in this contract is one (1) hour from the time of notification by the Village of Ashville.
- GEN 36 Prior to the construction of the streets, soil tests shall be made on all sanitary and storm structures which are ductile iron manholes, manholes, or approved equivalent which meet or exceeds the requirements of ANSI / AWWA C500.
- GEN 29 Valve boxes to be by Tyler 5/8E Curb Boxes, valve boxes to be to heavy duty if requirements of 912.03 of the Construction and Material Specifications, all backfill material shall be removed, replaced and re-tested until compacted meets requirements of 912.03.
- GEN 37 All sidewalks, curb ramps, and curbs and gutters shall meet Federal A.D.A. (Americans with Disabilities Act) requirements, latest edition.
- GEN 38 Any existing pavement removed for sanitary sewer, storm sewer or waterline shall be backfilled and compacted to a maximum density of 100% or with Controlled Density Fill (CDF), reference City of Columbus Item 912 or 636. If CDF is used all ductile iron pipe in contact with CDF shall be poly-wrapped in accordance with C-748 of AWWA C-105.
- GEN 39 Any tunneling or boring of any pipelines shall be in accordance with plans approved by the Village Engineer.
- GEN 40 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 as required by 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 41 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 depth of wells, pumps to be used, the location of the wells, the points of dewatering and all 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 deemed to have clearly understood the scope of the dewatering for the project and has included the cost in his unit price bid for the associated items.
- GEN 42 The City of Columbus Standard Drawings shall govern all projects unless otherwise noted.
- GEN 43 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 the engineer.
- GEN 44 The contractor shall confine his activities to the project site until development or the existing right-of-way, construction, and a permanent easement and shall not trespass upon any other private property without the written approval of the owner.
- GEN 45 The contractor shall dispose of all surplus excavated off-site or mound for future use. Mounds shall not be dressed to the height and shall not interfere with the drainage.
- GEN 46 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 be responsible for the location and restoration of all existing utilities.
- GEN 47 Compliance with the Occupational Safety and Health Act of 1970 is required of all contractors on this project.
- GEN 48 Where manholes are located within street grading limits, the tops shall be built to meet surface grades established for the pavement. The cost of the adjustment to be included in the price bid for the manhole.
- GEN 49 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 their original condition 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.

### WATER MAINLINE NOTES:

1. WML #1 Waterline service saddles shall be double bolt stainless steel size 306 as manufactured by INOCAL, or equal.
2. WML 2 Locations, support, protection and restoration of all water lines, services and appurtenances shall be the responsibility of the contractor. The contractor shall submit his details and methods of supporting the water lines across the sewer trench to the engineer for approval by the water department. Support and design shall be approved by the engineer prior to the commencement of excavation operations.
3. WML 4 The contractor shall hand wash all pipe and fittings that are not otherwise disinfected. The amount of chlorine to be used during hand swabbing operations shall be determined by the Village of Ashville, water department.
4. 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 above listed test results cannot be obtained against an existing valve, the new line shall be disconnected from the existing valve, plugged and re-tested. Damage caused to existing lines and valves shall be repaired by the contractor at his own expense.
6. WML 6 All pipe to plug and block the ends of water mains at location shown in the plans shall be included in the price bid for pipe.
7. WML 7 Water service boxes shall be located "10" to "12" from the roadway right-of-way line, unless otherwise authorized by the Village Engineer.
8. WML 8 A detectable underground utility marking tape shall be installed approximately 12" below Grade. This tape shall consist of a minimum 5' min. Overall thickness, with a solid aluminum foil core, with a 2 mil. clear film overcoat laminated to an aluminum 2 mil. clear film, making the film permanently printed. Color code shall be in blue indicating water and associated lines. The tape shall be manufactured with ultraviolet, acidic and neutral pH 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 separate payment will be made.
9. 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 for the Village of Ashville bear any responsibility to accept any of the above-mentioned items without a complete review and approval of the engineer. The shop drawings shall be approved by the Engineer prior to submission to the Village, these documents shall be bound into a folder and approved by the engineer.
10. WML 10 All Water Pipes and Fittings, and methods of construction and workmanship for Water Lines and Appurtenances shown in these plans shall 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 each rate and regulations are upgraded or modified by the following notes or by the construction details set forth herein.
11. WML 11 Work requiring the shutdown of existing water mains to be coordinated with the Village of Ashville water department forty-eight (48) hours prior to the scheduled work to be performed. All affected customers shall be notified by the contractor at least twenty-four (24) hours prior to the shut down.
12. WML 12 Water mains shall be ductile iron pipe designed in accordance with the latest revisions of A.S.T.M. 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 to 2 to 1 factor or safety on the basis of working pressure plus surge and pressure.
13. WML 13 Water mains shall be ductile iron pipe, class 52 (AWWA C153) with cement mortar lining and seal coating (AWWA/C154) in accordance with Village Specifications. Joints shall be rubber gasket outside (AWWA C153). Mechanical (AWWA C153) shall be maintained with cast iron with cement mortar lining and seal coating with mechanical joints and shall conform to AWWA C153.
14. WML 14 Ductile iron pipe shall be Manufactured in the U.S.A. in accordance with the latest revision of A.S.T.M. A.W.W.A. C150/A21.53. Each pipe shall be subject to a hydrostatic pressure test of at least 500 PSI at the point of Manufacture.
15. WML 15 Pipe shall have standard asphalt coating on the exterior pipe shall have a cement mortar on the interior in accordance with A.S.T.M. A.W.W.A. C104/A21.4 of the latest revision.
16. 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 manufacturer'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.
17. WML 17 PVC Plastic pipe, A.W.W.A. C200 DR 18R for sizes 4" to 12" and A.W.W.A. C200 DR 18R for sizes 14" and above may be used only when approved by the Village of Ashville.
18. 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 type K, soft tempered, copper tubing conforming in all respects to A.S.T.M. A318-88B. All piping two (2) inches or more in diameter shall be approved compression type joints. In general, there will be no fittings permitted between the main pipe connection and the control valve.
19. WML 19 Dead end water lines shall terminate with a fire hydrant and a wench valve or two 1/2 inch wench valves 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 plugging and blocked per the "Standard Drawing".
20. WML 20 Waterlines shall be installed with a minimum of four (4) feet of cover measured from the finished grade to the top of the water main.
21. WML 21 All main line valves, hydrant watch valves, curb boxes and dead end lines are to be marked with a "4"x12" or "12" x 12" pressure rated metal plate with a "4" x 4" minimum length of fire pipe and a forty-five (45) degree hand shall be installed along with a minimum 1/2 inch below grade. All sanitary lines and services are to be designed and installed so as to provide basement service.
22. 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'-0" vertical and 10'-0" horizontal clearance from sanitary and storm sewers.
23. WML 23 If there are any conflicts in grade between water lines and gravity sewers, the water lines shall be lowered during construction. Manholes stated must be maintained at the elevations shown on these plans. All manhole casting adjustments shall be accomplished with pre-cast concrete adjustment rings.
24. WML 24 A permit for any conflicts in grade 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.
25. 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.
26. WML 26 The caps and inside of all mainline water valves shall be painted blue, and the caps and inside of all 1/2 inch and 3/4 inch water valves shall be painted red with the color of fire inhibitive paint. Public fire hydrants are to be painted with two coats of Federal Safety Red, Sherwin Williams White 1507 per Village of Ashville 1507.06(4). Hydrants painted in a Factory loaded system shall be painted all Federal Safety Red.
27. WML 27 Tapping valves are to be Ford Meter Box Style F555 all stainless steel or JCM 432 all stainless steel.

### SANITARY AND STORMWATER NOTES:

1. STMS/SAS 1 Riser drains, foundation drains and other clean water connections to the sanitary sewer system is prohibited on this project.
2. STMS/SAS 2 All sanitary sewers constructed under this plan shall meet the requirements of the Village of Ashville, unless otherwise noted.
3. STMS/SAS 3 The construction of new sanitary sewers or waterlines shall not begin until the Village receives an approved and current Ohio Environmental Protection Agency Permit to Install (PTI), or a letter of Acceptance.
4. STMS/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.
5. STMS/SAS 5 The minimum requirements for sanitary sewer pipe shall be PVC sewer pipe ASTM D-3034, SDR 35 per ASTM F-679.
6. STMS/SAS 6 The minimum requirement for storm sewer pipe shall be 30" High Density Polyethylene H-12 or equal High Density Polyethylene Pipe with smooth interior finish. Storm drains shall be included in the price bid for item 13. Hydrostatic Tested Reinforced concrete RCP may be specified by the Engineer when they deem necessary.
7. STMS/SAS 7 All trench backfill shall be compacted backfill as per item 911. The cost of the contractor shall be included in the price bid for the contractor. The contractor is hereby notified that the crmc for Ashville requires the use of number 57 crushed limestone. Road Gravel for bedding sanitary pipe.
8. STMS/SAS 8 In addition to the requirements of crmc item 901.08 as it refers to compacted backfill, there may be areas on the plans with the limit indicated on the profile view of the sewer "compacted granular backfill". These areas will be compacted to meet the requirements of crmc Item 912.03, prepared for the construction of backfill within these areas shall be included in the price bid for furnishing and installing pipe.
9. STMS/SAS 9 All bedding of sanitary sewer pipe shall conform to the typical trench detail.
10. STMS/SAS 10 The contractor's specific attention is directed to the requirements of the Village of Ashville, unless otherwise noted. This is an infiltration water line. All test is to be performed by the Village of Ashville. An infiltration test will be required in areas of high groundwater.
11. STMS/SAS 11 Pipe for all (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 man sewer, unless otherwise directed by the Village Engineer.
12. STMS/SAS 12 Connections between existing and proposed service lines shall be completed using a four (4) inch or (6) inch Fernox, Inc. Ductile iron pipe.
13. STMS/SAS 13 A Wye pipe made of "4" x 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.
14. STMS/SAS 14 All sanitary sewer lines installed using PVC pipe will be subject to deflection testing by pulling an approved 12 inch diameter steel rod through the pipe. The deflection over the pipe no less than (30) days after the pipe is backfilled.
15. STMS/SAS 15 The Wye locations shown on the plans are approximate and shall be laid to the engineer's satisfaction to serve the individual structures.
16. STMS/SAS 16 Manhole covers for sanitary sewers shall conform to Village of Ashville Standard Drawings.
17. STMS/SAS 17 Manhole tops shall be built or subsequently adjusted to meet surface grades established for the development. Cost of this work to be included in the price bid for the various sewer items.
18. STMS/SAS 18 All sanitary sewer lines shall and manholes.
19. STMS/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:
  - A. Pre-cast Concrete
  - B. Four (4) foot diameter, minimum
  - C. Installed with formed channels
20. STMS/SAS 20 All sanitary sewer manholes and existing sanitary manholes adjusted to grade shall be constructed with chimney seals and Duct in accordance with Village of Ashville Specifications.
21. STMS/SAS 21 All new manholes and existing manholes adjusted to grade shall have concrete collars.
22. STMS/SAS 22 Sanitary sewer-manhole connections: The sanitary sewer pipe to manhole connections shall be of a flexible waterproof joint of approved manufacture. The joint may be of the following design (A) rubber sleeves with stainless steel bands; (B) rubber gasket compression, or (C) rubber gasket expansion.
23. STMS/SAS 23 Manhole locations: The station and offset of the manholes shown on the plans are to be the center of the manhole bases.
24. STMS/SAS 24 The maximum trench width shall not be greater than the outside diameter of the pipe plus two (2) feet.
25. STMS/SAS 25 The contractor shall make provisions to maintain flows in the existing sewer at all times - during construction methods for maintaining
26. STMS/SAS 26 All sanitary sewers shall be recorded in DWO format after construction prior to acceptance of the sewers by the Village of Ashville. The DWO shall remain the property of the Village of Ashville. The DWO shall clearly identify the location of the camera within the sewer, date and time of the DWO and of sufficient quality to determine the conditions of the sanitary sewers. An additional DWO shall be performed just prior to the expiration of the one (1) year warranty period.
27. STMS/SAS 27 The maximum velocity in any new sanitary sewer shall not exceed ten feet per second (10 FPS).
28. STMS/SAS 28 Testing of lateral connections shall be achieved to:
29. STMS/SAS 29 The contractor shall make provisions to maintain flows in the existing sewer at all times - during construction methods for maintaining flows shall be submitted to the engineer for approval prior to construction. At all times sanitary sewer shall be ready to receive discharge to any river or stream nor spill on the ground. Approval of plans by the engineer shall not relieve the contractor of his responsibility for the adequacy of the sewer for all flows. During the contract the contractor shall be aware that the existing sewers may be operating under pressure (head) during times of lateral trouble the contractor shall be notified by the engineer and shall be responsible for these sewers. Payments for this work to be included in the item bid for furnishing and installing pipe.
30. STMS/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 for installation certifications and equipment before any of the said materials, structures or equipment is ordered. The contractor shall be responsible for the actual work locations and quantities used for such items shall be incorporated into the final change order governing completion of this project. Shop drawings shall be bound and indexed with numbered sheets for each item or pages number throughout.
31. STMS/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 suitable of pipe.

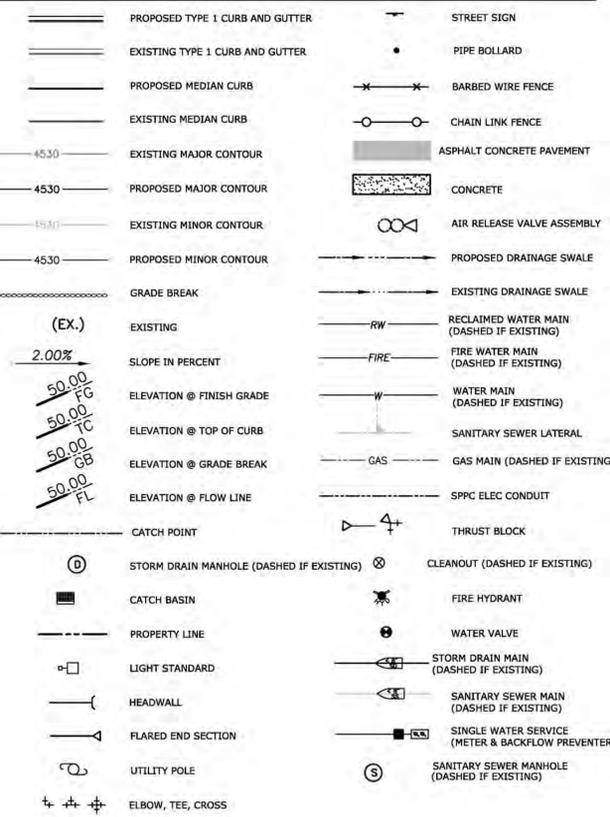
### ROADWAY NOTES:

1. 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 modified through the registered soils engineer present on the site. Section 203.12 shall be drilled with all compacted soil to be one hundred (100) percent of the maximum dry unit weight obtained in the laboratory by the "Standard Proctor" compaction test (ASTM D698). Moisture content shall be maintained at or below the range of a two (2) percent of the optimum moisture content determined by ASTM D698.
2. RDW 2 Prior to construction of the streets, soil tests shall be made on all sanitary sewer and designated storm sewer trenches which show proposed pavement areas that the proposed pavements are located within any part of the influence line of said trench. Where said results indicate that the trench shall be constructed in accordance with requirements of 912.03 (minimum of 100% of maximum laboratory density) the contractor shall be notified, replaced, and re-tested until compacted meets requirements of 912.03.
3. 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, water boxes, etc. shall be sealed in accordance with item 413 (1) of the City of Columbus Construction and Material Specifications.
4. RDW 3 The contractor shall contact the Columbus Gas of Ohio, Inc. Operations Supervisor at 614-219-0101 and (1) week prior to roadway construction to obtain a list of PVC gas sleeves of Columbus Southern Power Engineering Liaison Coordinator at 614-464-7279 for electric conduit sleeves.
5. RDW 4 At the option of the developer or the Village, the completion of the final warning 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.
6. RDW 5 Warning course of asphalt concrete to meet City of Columbus Construction and Material Specification Item 404 and additional mix design requirements of the Village of Ashville.
7. 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 RCP, Item 636 Type 100. The pavement shall be constructed to match the existing section or the inches of item 404 asphalt concrete, whichever is greater. As an option, the concrete base and bedding one (1) foot below either side of the excavation, with two (2) inches of item 404 asphalt wearing course placed on top.
8. 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.
9. RDW 8 Village Streets are to be kept clean and free from mud, stone, dirt, etc. A temporary construction entrance composed of a 2' x 50' mat of number 2 stone shall be to be maintained at all site entrances.

AC	ACRES	LT	LEFT
AC	ASPHALTIC CONCRETE	M	MIDDLE ORDINATE
ACP	ASBESTOS CONCRETE PIPE	MGD	MILLION GALLONS PER DAY
BC	BUILDING CORNER	MANHOLE	
BDY	BODY	MVCV	MID-ORDINATE VERTICAL CURVE
BVC	BEGIN VERTICAL CURVE	MW	MONITORING WELL
BSW	BACK OF SIDEWALK	NC	NOT IN CONTRACT
BW	BOTTOM OF WALL	OG	ORIGINAL GROUND
CC	CORNER CONCRETE	OH	OVERHEAD
C&G	CURB AND GUTTER	OS	OFFSET LINE
CB	CATCH BASIN	PI	POINT OF INTERSECTION
CFS	CUBIC FEET PER SECOND	PIV	POST INDICATOR VALVE
C/L	CENTRLINE	PL	PROPERTY LINE
CH	CHORD	PR	POINT OF TANGENCY
CI	CAST IRON	PRC	POINT REVERSE CURVATURE
CM	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE PIPE
CO	CLEANOUT	Q	DISCHARGE RATE
CONC.	CONCRETE	R	RADIUS
CONST	CONSTRUCT	(R&A)	RADIAL
CP	CONCRETE PIPE	REB	REINFORCING BARS
CPLG	COUPLING	RCB	REINFORCED CONCRETE BOX
CR	CURB RETURN	RCP	REINFORCED CONCRETE PIPE
D	DELTA	REF	REFERENCE
DCV	DETECTOR CHECK VALVE	RET	RETURN
DIA	DIAMETER	RIF	RAIN INFILTRATION BASIN
DET	DETAIL	RIM	RIM ELEVATION
E	ELECTRICAL	ROW	RIGHT OF WAY
(EX)	EXCEPT	RT	RIGHT
EL	ELEVATION OR ELBOW	S	SLOPE
EC	EDGE CURVE	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SF	SQUARE FOOT
ES	EDGE OF SAWGUT LINE	SH	SHIELD
EVC	END VERTICAL CURVE	SI	SANITARY SEWER
FES	FLARED END SECTION	STL	STEEL
FF	FRONT FACE OF CURB	STW	STATION
FFW	FRONT FACE OF WALL	S/T	STRAIGHT
FG	FINISH GRADE	T	TRANSFORMER
FL	FLANGE	(T)	TELEPHONE
FL	FLOW LINE	TE	PIPE CONNECTION TELEVISION
(G)	GAS	TC	TOP OF CURB
(G)	GROUND	TC	TOP OF CONC. CONCENTRATION
GB	GRADE BREAK	TOE	TOP OF GRATE
GM	GAS METER	TG	TOP OF SLOPE
GP	GALLONS PER MINUTE	TP	TOP OF PAVEMENT
GV	GAS VALVE	TV	TOP OF BANK
HOR	HORIZONTAL	TW	TOP OF WALL
HP	HIGH POINT	TYP	TYPICAL
HS	HOUSE SERVICE	UC	UTILITY CURVE
I	INTENSITY	VERT	VERTICAL
IE	INVERT ELEVATION	VPI	VERTICAL POINT OF INTERSECTION
IPS	IRON PIPE SIZE	W	WATER
IRR	IRRIGATION	WM	WATER METER
L	LENGTH	WW	WATER VALVE
LF	LINEAL FEET		
LPG	LIP OF GUTTER		
LP	LOW POINT		

## 1 ABBREVIATIONS

SCALE: N.T.S.



## 2 LEGEND

SCALE: N.T.S.

**TECTONICS DESIGN GROUP**  
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**Dollar General Development, LLC**  
 Ashville, Ohio  
**CROSS DEVELOPMENT, LLC**  
 420 SOUTH FORK DR. LEWISVILLE, TEXAS 75057

GENERAL NOTES  
 ABBREVIATIONS  
 LEGEND

SHEET TITLE: SUBMITTAL RECORD: PROJECT/CLIENT: SHEET:

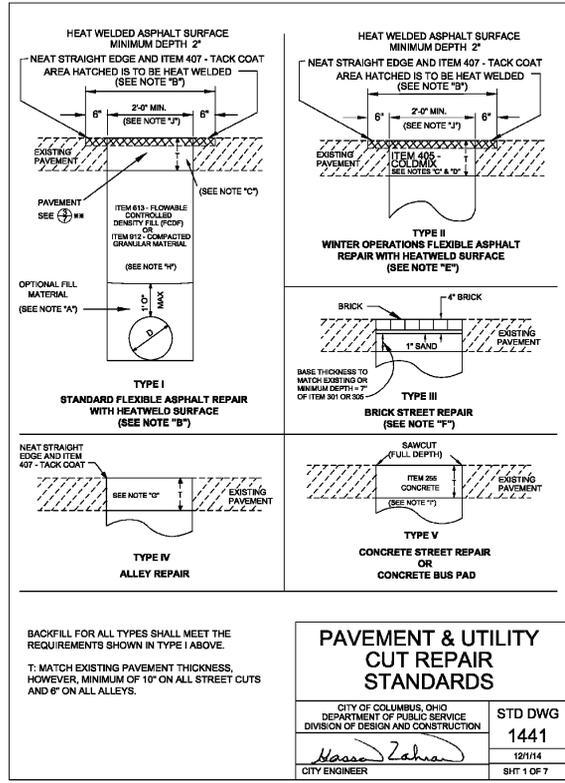
DATE: 04/18/16 05/19/16 09/09/16  
 SUBMITTAL FOR PERMIT REVIEW VILLAGE OF ASHVILLE REVIEW COMMENTS

DRAWN: R.W.G.  
 DESIGNED: S.W.T.  
 CHECKED/STAMPED:

CIPR: RIGHT: STAMP:

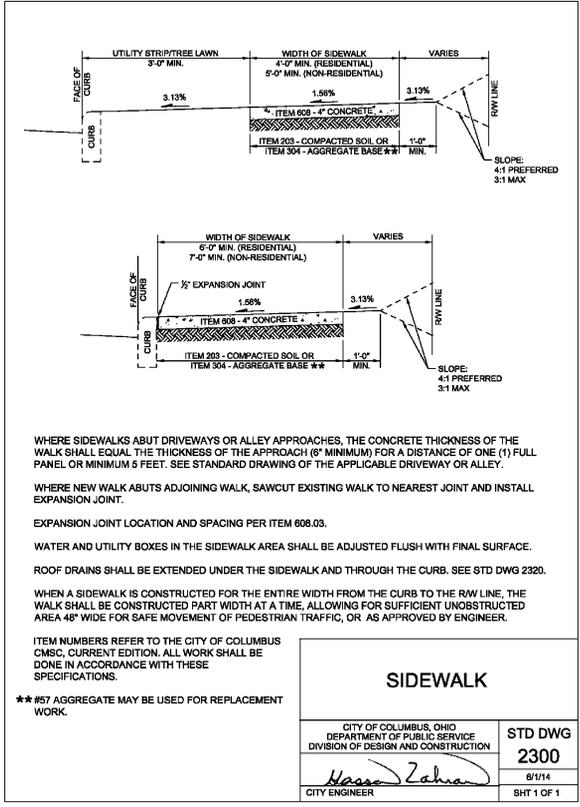
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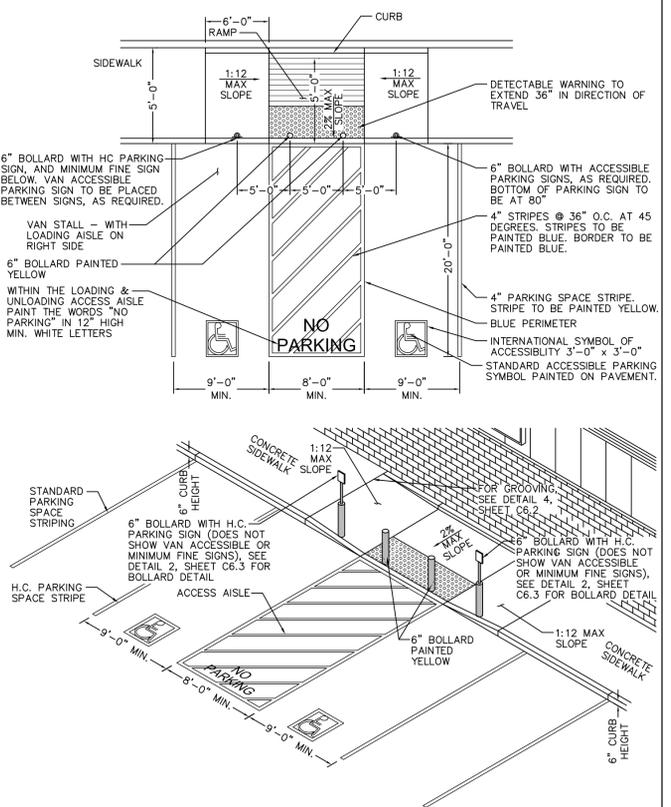
PAVEMENT & UTILITY CUT REPAIR STANDARDS	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>1441</b>
<i>Nasser Zahra</i> CITY ENGINEER	12/1/14 SHT 1 OF 7

**1 SAWCUT DETAIL**  
SCALE: N.T.S.



SIDEWALK	
CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC SERVICE DIVISION OF DESIGN AND CONSTRUCTION	STD DWG <b>2300</b>
<i>Nasser Zahra</i> CITY ENGINEER	8/1/14 SHT 1 OF 1

**2 SIDEWALK DETAIL**  
SCALE: N.T.S.

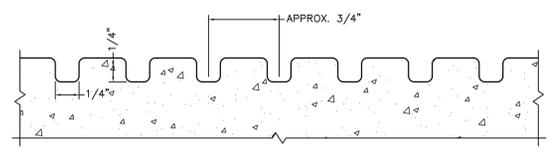


**3 ACCESSIBLE RAMP & STALL DETAIL**  
SCALE: N.T.S.

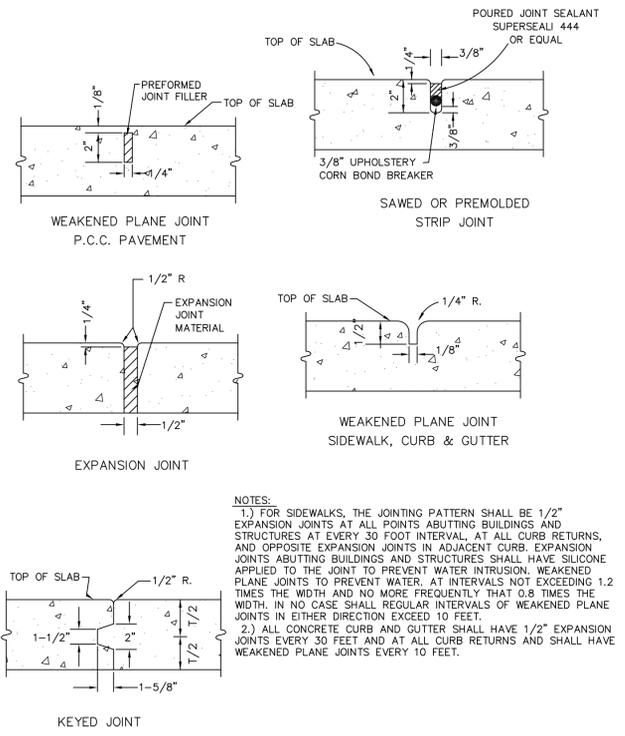
STRIPING LEGEND	
YELLOW CURBING AND BOLLARDS	SURFACES SHOULD BE CLEAN, DRY AND METAL SURFACES FREE OF HEAVY RUST, 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY YELLOW B55Y300
STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PROMAR TRAFFIC MARKING PAINT YELLOW TM5495
HANDICAP STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PROMAR TRAFFIC MARKING PAINT "H.C." BLUE.

CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (ELECTRIC, WATER, GAS, SEPTIC, SEWER) AS WELL AS PROVIDING ALL INFRASTRUCTURES REQUIRED BY UTILITY COMPANY.

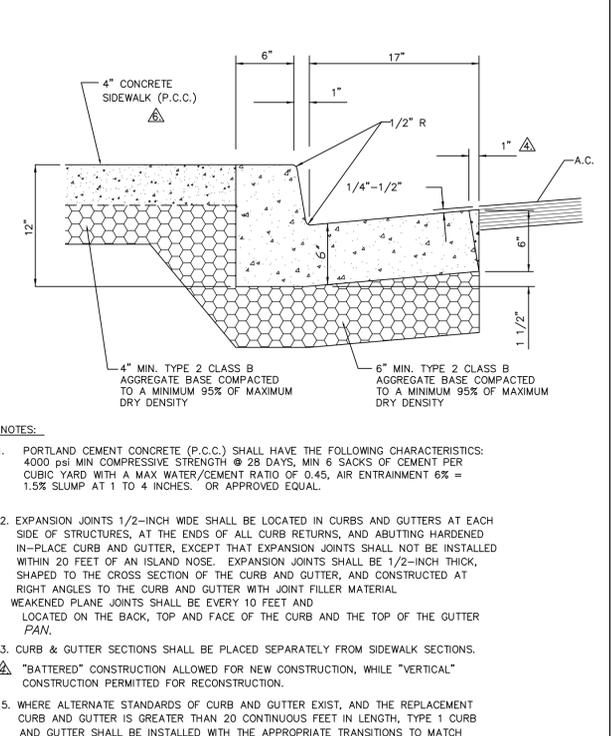
**4A STRIPING DETAIL**  
SCALE: N.T.S.



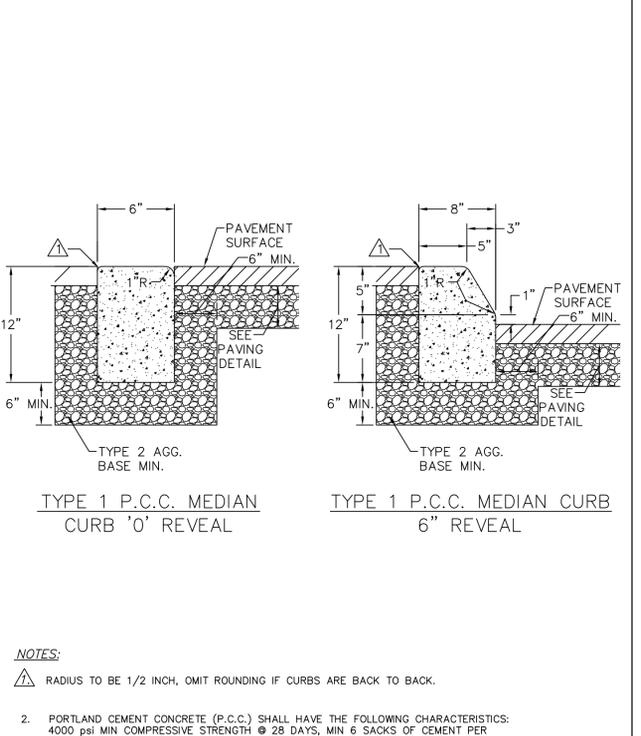
**4 GROOVING DETAIL**  
SCALE: N.T.S.



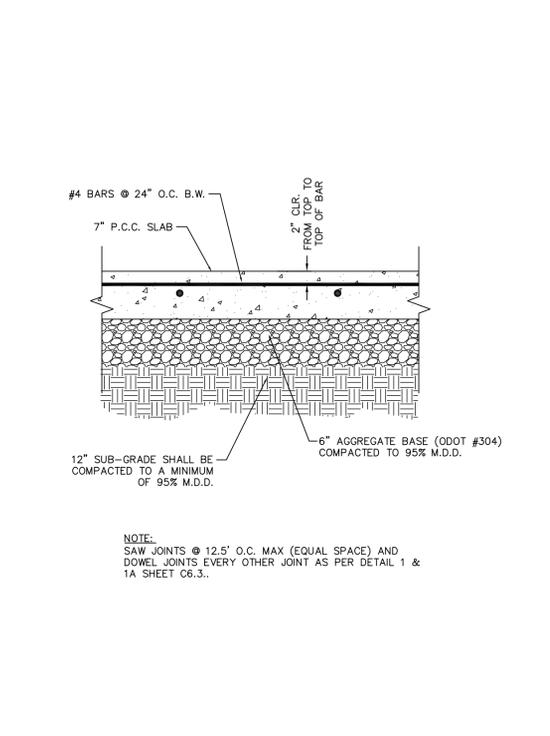
**5 P.C.C. JOINTING DETAILS**  
SCALE: N.T.S.



**6 TYPE I P.C.C. CURB & GUTTER DETAIL**  
SCALE: N.T.S.



**7 TYPE I P.C.C. MEDIAN CURB DETAIL**  
SCALE: N.T.S.



**8 CONCRETE APRON DETAIL**  
SCALE: N.T.S.

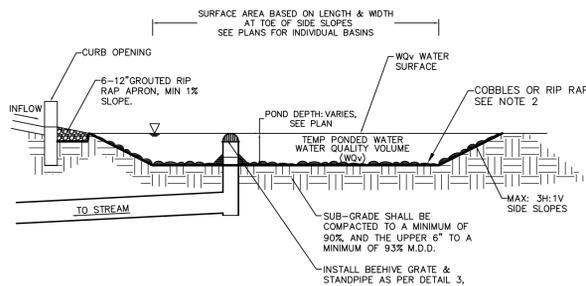
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 DESIGNED: S.W.T.  
 CHECKED/STAMPED:  
 DESIGNER:  
 PROJECT/CLIENT:  
 #1: 16047  
 DATE: 04/18/16 SUBMITTAL 80% PERMIT  
 04/28/16 FOR REVIEW  
 05/19/16 SEWER REVISION  
 09/09/16 VILLAGE OF ASHVILLE REVIEW COMMENTS  
 SHEET TITLE: DETAIL SHEET  
**C6.2**

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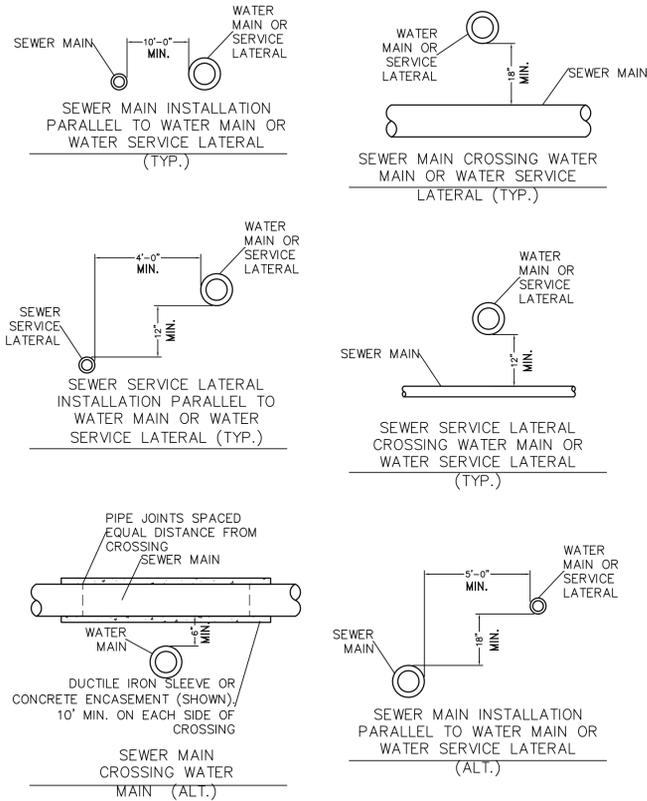




- NOTES:
1. ALL VEGETATION, DEBRIS AND BLOCKAGES SHALL REQUIRE REMOVAL IN THE BOTTOM OF THE DETENTION BASIN INCLUDING ONE FOOT UP THE SIDE SLOPES AT A MINIMUM OF ONCE EVERY TWO YEARS WHICH SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER (DETENTION BASIN SHALL BE PRIVATE).
  2. ANY SLOPE OVER 3:1 SHALL BE 6" - 12" ROCK RIP RAP OVER FILTER FABRIC & ANY SLOPE UNDER 4:1 SHALL BE 4" MINUS COBBLE OR ROCK RIP RAP.

**1** LANDSCAPE DETENTION POND

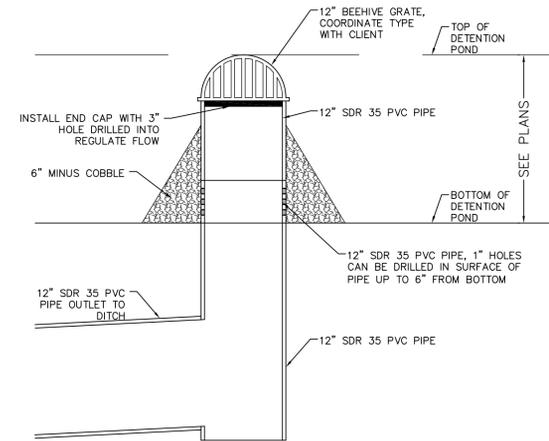
SCALE: N.T.S.



- NOTES:
1. INSTALLATION OF SEWER LINES AND LATERALS SHALL BE IN CONFORMANCE WITH ALL WATER/SEWER SYSTEM SEPARATION REGULATIONS.
  2. WHENEVER POSSIBLE, SEWER LINES AND LATERALS SHALL BE INSTALLED IN SEPARATE TRENCHES IN THE TYPICAL CONFIGURATIONS SHOWN ABOVE.
  3. IF THE PIPE CANNOT BE INSTALLED IN THE TYPICAL OR ALTERNATIVE CONFIGURATIONS, THE CONTRACTOR SHALL HAVE WRITTEN APPROVAL FROM THE DIVISION OF HEALTH FOR ANY OTHER INSTALLATION CONFIGURATION.
  4. WHEN THE SEWER MAIN CROSSES THE WATER MAIN, THE SEWER MAIN MUST BE LOCATED AT LEAST 18" LOWER THAN THE WATER MAIN.
  5. WHEN THE SEWER MAIN CROSSES A WATER SERVICE LATERAL, THE SEWER MAIN MUST BE LOCATED AT LEAST 18" LOWER THAN THE WATER SERVICE LATERAL.
  6. WHEN THE SEWER SERVICE LATERAL CROSSES A WATER MAIN OR WATER SERVICE LATERAL, THE SEWER SERVICE LATERAL MUST BE LOCATED AT LEAST 12" LOWER THAN THE WATER MAIN OR WATER SERVICE LATERAL.
  7. WHEN A SEWER MAIN PARALLELS A WATER MAIN OR WATER SERVICE LATERAL, THE SEWER MAIN MUST BE IN A SEPARATE TRENCH AND MUST HAVE A 10' HORIZONTAL SEPARATION.
  8. WHEN A SEWER SERVICE LATERAL PARALLELS A WATER MAIN OR WATER SERVICE LATERAL, THE SEWER SERVICE LATERAL MUST BE IN A SEPARATE TRENCH, BE LOCATED 12" LOWER, AND MUST HAVE A 48" HORIZONTAL SEPARATION.
  9. WHEN SEPARATIONS ABOVE CANNOT BE ACHIEVED, WATERLINE SHALL BE CONCRETE ENCASED A MINIMUM OF 10' BEYOND EACH SIDE OF CROSSING WITH 4" P.C.C. CONCRETE PER ORANGE BOOK STDS.
  10. INSTALL RED MUD AT WATER - SEWER CROSSING.

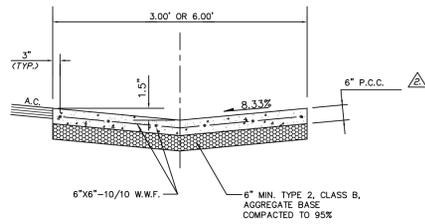
**2** WATER/SEWER CROSSING DETAIL

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**3** DETENTION POND OUTLET DETAIL

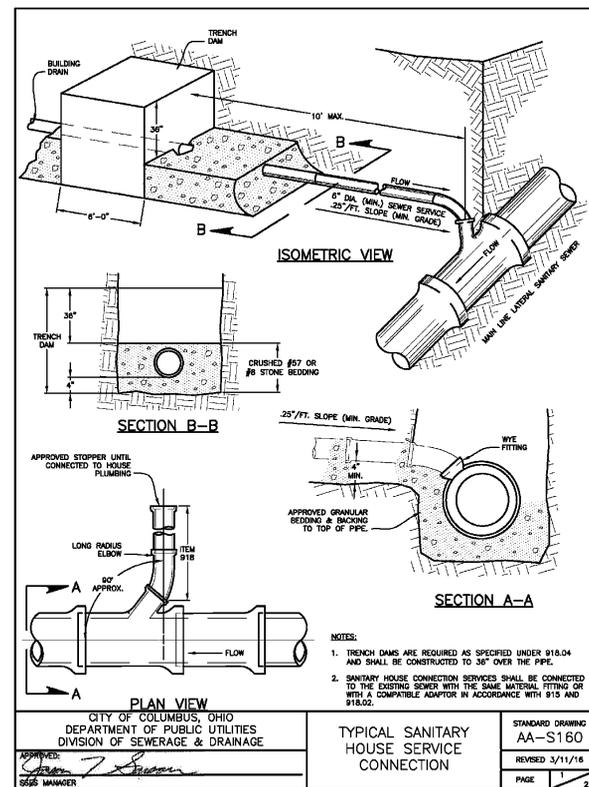
SCALE: N.T.S.



- NOTES:
1. THIS GUTTER DESIGN IS NOT FOR USE ON CITY STREETS, FOR PRIVATE USE ONLY.
  2. FOR CONCRETE MIX DESIGN SEE DETAIL 4 ON SHEET SS.1 OF THE STRUCTURAL IMPROVEMENT PLANS.
  3. LONGITUDINAL VALLEY GUTTER SHALL HAVE EXPANSION JOINTS EVERY 30 FEET AND WEAKENED PLANE JOINTS EVERY 10 FEET.
  4. FOR INDUSTRIAL AREAS, AN ENGINEERED DESIGN IS REQUIRED.
  5. AGGREGATE BASE SHALL BE ENGINEERED TYPE 2, CLASS B, COMPACTED TO A MINIMUM OF 95%.

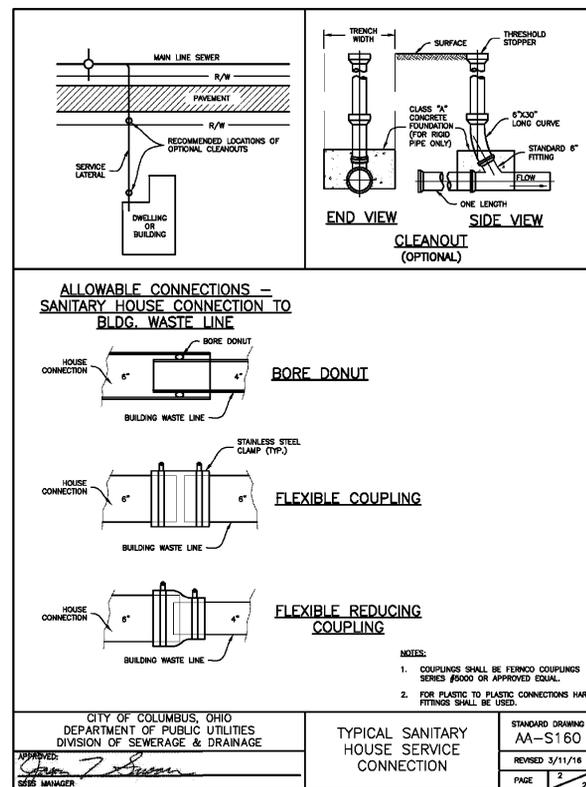
**4** LONGITUDINAL VALLEY GUTTER DETAIL

SCALE: N.T.S.



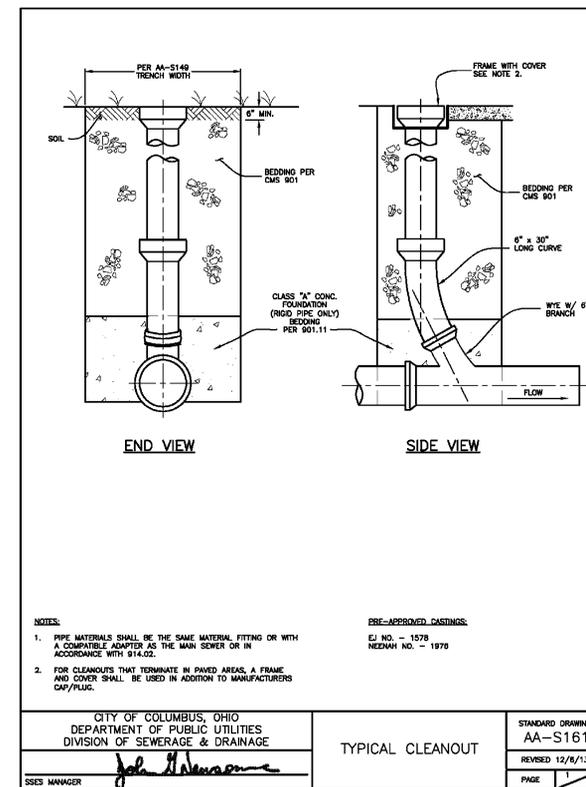
**5** SANITARY SEWER LATERAL

SCALE: N.T.S.



**6** SANITARY SEWER LATERAL

SCALE: N.T.S.



**7** SANITARY SEWER CLEAN OUT

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CHECKED/STAMPED:

STAMP:

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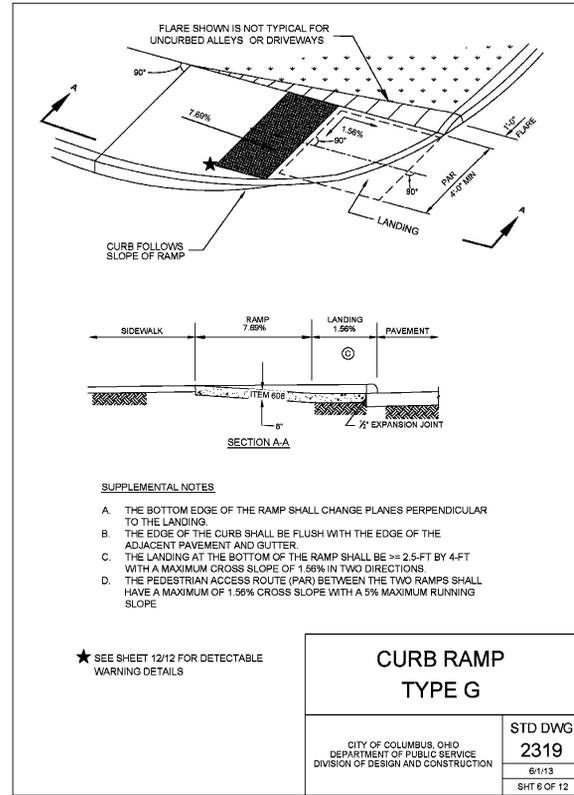
SUBMITTAL RECORD:

DATE: 12/8/13  
PAGE 1/1

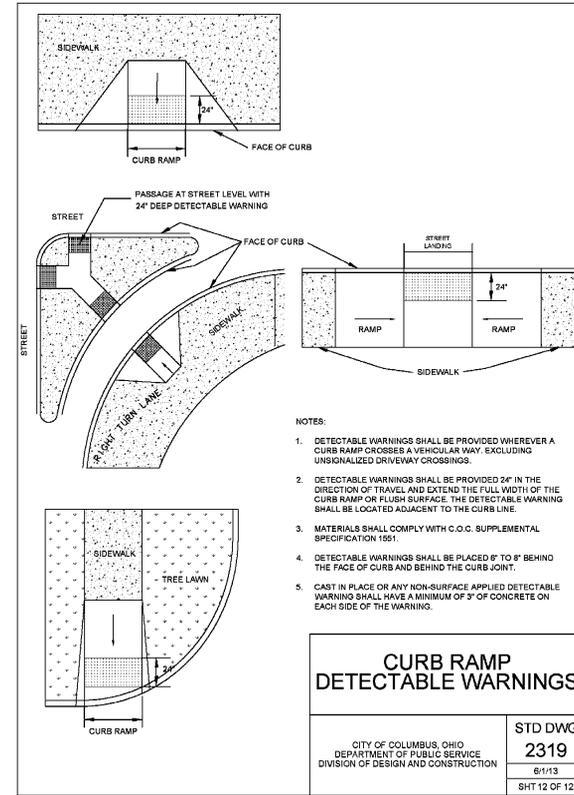
DETAIL SHEET

**C6.4**





**1** CURB RAMP DETAIL  
SCALE: N.T.S.



**2** DETECTABLE WARNING DETAIL  
SCALE: N.T.S.

**3** NOT USED  
SCALE: N.T.S.

**4** NOT USED  
SCALE: N.T.S.

**5** NOT USED  
SCALE: N.T.S.

**6** NOT USED  
SCALE: N.T.S.

**7** NOT USED  
SCALE: N.T.S.

**8** NOT USED  
SCALE: N.T.S.

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SUBMITTAL RECORD:

SHEET TITLE: DETAIL SHEET

SHEET: **C6.6**

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