



MATCHLINE - SHEET C-18

MATCHLINE - SHEET C-17

- UTILITY KEYNOTES**
- A APPROXIMATE LOCATION OF EXISTING SANITARY SEWER LATERAL AT 1.0% MINIMUM SLOPE COORDINATE WITH ARCHITECT
  - B GAS ENTRY VALVE. CONTRACTOR RESPONSIBLE FOR INSTALLING PIPE BOLLARD PER CITY SPECIFICATIONS. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR LOCATION OF BOLLARD
  - C CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GAS COMPANY REGARDING INSTALLATION OF SERVICE LINE
  - D CONTRACTOR TAMPER SIGN TO BE INSTALLED ADJACENT TO 12" FIRE SERVICE LINE
  - E CONTRACTOR TO VERIFY EXISTING SANITARY SEWER LATERAL. CONTRACTOR TO VERIFY EXISTING SANITARY SEWER LATERAL AND SANITARY SEWER COMPANY PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE WITH THE ELECTRIC COMPANY. FINAL LOCATION OF SANITARY SEWER LATERAL AND BOLLARD CANNOT CONFLICT WITH TRUCK ACCESS TO DOOR DOOR
  - F SANITARY SEWER LATERAL TO BE EXTENDED TO BUILDING BY TELEPHONE COMPANY.

- G CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE TELEPHONE COMPANY FOR THE INSTALLATION OF ANY ADDITIONAL OVERHEAD TELEPHONE LINES. CONTRACTOR TO COORDINATE WITH TELEPHONE COMPANY TO INSURE PROPER SEPARATION BETWEEN OVERHEAD LINES AND LIGHT POLES
- H DOMESTIC WATER LINE ENTRY PER TOWN OF LEESBURG REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE SUCH AS BACKFLOW PREVENTION DEVICES, GATE VALVES, ETC. WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH TOWN OF LEESBURG.
- I SPRINKLER ENTRY. CONTRACTOR SHALL BE REQUIRED TO INSTALL ANY APPURTENANCES ON THE SPRINKLER LINE SUCH AS, BUT NOT LIMITED TO, A DOUBLE DETECTOR CHECK BACKFLOW PREVENTION DEVICE, IN SERIES WITH A CHECK VALVE, GATE VALVES, ETC. MEETING TOWN OF LEESBURG SPECIFICATIONS.
- J PROPOSED FIRE HYDRANT AND ASSEMBLY, TYPICAL AS INDICATED. SEE DETAIL SHEET 62 OUT OF 100
- K REMOTE CROWN CENTER UTILITIES PIPE BOLLARD. SEE DETAIL SHEET 67 OUT OF 100

- NO LP CAMERAS ARE REQUIRED WITH THIS PLAN.**
- L ALL LP CAMERA PULL BOXES LOCATED IN PAVED AREAS SUBJECT TO TRUCK TRAFFIC SHALL BE 14" 30" LEAD RATED. THE TYPICAL PULL BOX SIZE SHALL BE 17" X 30" 28" SQUARE. PULL BOXES SHALL BE POLYETHYLENE OR APPROVED EQUAL. EGRESS HOLES MAY BE REQUIRED WHEN THE CONDUIT ALIGNMENT IS AFFECTED BY OTHER UTILITIES. THE PULL BOX SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATION WITH A CONCRETE COLLAR AND A MINIMUM OF 8" OF GRAVEL COMPACTED PER PROJECT SPECIFICATIONS
  - M ONE 1/2" DIAMETER GUN ON TYPE 120" DIRECT BURIAL TELEPHONE DUCT OR 3" SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE POLYPROPYLENE ROPE WITH A MINIMUM PULLING TENSION OF 100 POUNDS. THE MINIMUM BURIAL DEPTH SHALL BE 24". INSTALL AN ORANGE DETECTABLE HAZARD TAPE WITH INTEGRAL "BURIED CABLE" WORKING. 12" ABOVE CONDUIT
  - N ONE 2" CONDUIT SHALL BE CARLON TYPE 120" DIRECT BURIAL TELEPHONE DUCT OR SCHEDULE 40 PVC. INSTALL GALVANIZED PULL WIRE OR PURPLE POLYPROPYLENE ROPE WITH A MINIMUM PULLING TENSION OF 100 POUNDS. THE MINIMUM BURIAL DEPTH SHALL BE 24". INSTALL AN ORANGE DETECTABLE HAZARD TAPE WITH INTEGRAL "BURIED CABLE" WORKING 12" ABOVE CONDUIT. THE 2" LP CAMERA CONDUIT SHALL BE SEPARATED FROM THE ABOVE LIGHT FUTURE POWER BY A DIVIDER PLACED IN THE LIGHT POLE BASE ANJUNCTION BOX

**ALERT TO CONTRACTOR:**  
ALL GENERAL CONTRACTOR WORK TO BE COMPLETED BY THE DATE INDICATED BY THE MILESTONE DATE IN PROJECT DOCUMENTS.

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
(Symbol)	SANITARY LINE	(Symbol)
(Symbol)	STORM LINE	(Symbol)
(Symbol)	SANITARY DEWER LATERAL	(Symbol)
(Symbol)	UNDERGROUND WATER LINE	(Symbol)
(Symbol)	UNDERGROUND ELECTRIC LINE	(Symbol)
(Symbol)	UNDERGROUND GAS LINE	(Symbol)
(Symbol)	OVERHEAD WIRE	(Symbol)
(Symbol)	UNDERGROUND TELEPHONE LINE	(Symbol)
(Symbol)	UNDERGROUND CABLE LINE	(Symbol)
(Symbol)	STORM SEWER MANHOLE	(Symbol)
(Symbol)	STORM SEWER MANHOLE	(Symbol)
(Symbol)	WATER METER	(Symbol)
(Symbol)	WATER METER	(Symbol)
(Symbol)	GAS VALVE	(Symbol)
(Symbol)	GAS METER	(Symbol)
(Symbol)	TYPICAL END SECTION	(Symbol)
(Symbol)	HEADWALL OR ENDWALL	(Symbol)
(Symbol)	YARD INLET	(Symbol)
(Symbol)	CURB INLET	(Symbol)
(Symbol)	CLEAN OUT	(Symbol)
(Symbol)	ELECTRIC MANHOLE	(Symbol)
(Symbol)	TELEPHONE MANHOLE	(Symbol)
(Symbol)	ELECTRIC BOX	(Symbol)
(Symbol)	ELECTRIC PEDESTAL	(Symbol)
(Symbol)	MONITORING WELL	(Symbol)
(Symbol)	TEST PIT	(Symbol)

- UTILITY NOTES:**
- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES
  - CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE
  - WATER LINES SHALL BE AS FOLLOWS:  
2" AND 3" DUCTILE IRON PIPE CLASS 52 ALL DUCTILE IRON PIPE SHALL BE PROVIDED WITH POLYETHYLENE CASING SEAMLESS COPPER TUBE TYPE "K" WILL BE USED FOR THE 2" WATER SERVICE LINE BETWEEN THE WATER MAIN AND TOWN WATER
  - TRENCH WIDTHS TO BE BASED ON PIPE DIAMETERS PER TOWN DETAILS SD-5 AND WD-12 TO ALLOW SUFFICIENT WORKSPACE FOR ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS SHOWN ON THE TOWN DETAIL.
  - IF FEASIBLE ALL UTILITIES SHOULD BE KEPT TEN (10') CLEAR (PARALLEL OR WHEN CROSSING) 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE)
  - CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4' COVER ON ALL WATERLINES UNLESS OTHERWISE SPECIFIED
  - IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET FROM BOTH SIDES OF CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE MEETING REQUIREMENTS OF AND A11.10 OR A11.21.11 (AWWA C-151) (CLASS 52)
  - ALL UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING
  - TOPS OF EXISTING MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS
  - ALL CONCRETE FOR ENCASUREMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
  - EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES
  - REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES
  - CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES (TOWN OF LEESBURG) WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES
  - 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 ACCESSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE RECORDS MAY BE INCOMPLETE OR INACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF UTILITIES OF ALL UTILITY COMPANIES AT LEAST 10 FEET BEFORE ANY EXCAVATION TO RELOCATE EXISTING UTILITIES WHICH COMPLY WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS
  - CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION
  - CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS
  - UTILITIES SHOWN AS EXISTING IN PUBLIC ROW (WATER, SEWER, STORM) AND THE ROADWAYS THEMSELVES ARE NOT CONSTRUCTED BY THIS PROJECT. THIS WORK SHALL BE SUBJECT AS SHOWN BY OTHERS (BUT NOT ALL BE COMPLETED) AT TIME OF WALMART'S CONSTRUCTION
  - REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN
  - FOR CONNECTIONS TO EXISTING SANITARY SEWER MANHOLES MUST BE CORE DRILLED WITH A 1/2" APPROVED FLEXIBLE SLEEVE ADDED
  - FOR GRAVITY SEWER APPLICATIONS, DUCTILE IRON PIPE AND FITTINGS (EPOXY COATED CLASS 52) ARE REQUIRED FOR PIPE DEPTHS LESS THAN 4' THAT ARE SUBJECT TO VEHICULAR LOADS
  - ALL UNDERGROUND UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER AND SHOWN ON THE PLANS. WHEN CONNECTING TO EXISTING STRUCTURES (FIRE CAST, CAST-IN-PLACE CONCRETE BLOCK, BRICK, ETC.) ALL PIPES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND BE AT LEAST 10 FEET FROM ANY EXCAVATION TO RELOCATE EXISTING UTILITIES TO ELIMINATE THE POTENTIAL FOR SINK FAILURE, TO BE SOIL TIGHT, AND LEAK RESISTANT (FLARE CONNECTIONS)
  - FOR CONNECTIONS TO EXISTING UTILITIES, SEE CONTRACTOR CHECK CONNECTIONS CENTER PHASE 1 INFRASTRUCTURE PLAN: CAP-2016-03A, SEE PAGES 96 AND 98 FOR STORM CONNECTIONS AND PAGE 93 FOR SANITARY SEWER CONNECTIONS. SEE PAGE 98 FOR WATER MAIN CONNECTIONS
  - ALL INVERTS, PIPE LINES, STEEL-OUT VALVES, BENDS, TEES, CROSSES, WYES, PLUGS AND CAPS SHALL HAVE POURED-IN-PLACE CONCRETE ANCHOR THRUST BLOCKS AGAINST UNDERLINED EARTH
  - STRUCTURES A19 AND B19 PROPOSED AS SINKING MANHOLES WITH SLOTTED GRATES
  - PULL ACCESS SERVING TELEPHONE AND FIBER OPTIC CONDUIT TO FUTURE PULL STATION SHALL BE 1" DIA. 12" DIA. AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS WITH A CONCRETE COLLAR AND A MINIMUM OF 8" OF GRAVEL BEDDING COMPACTED PER THE PROJECT SPECIFICATIONS

Walmart  
Supercenter

**REVISIONS**

NO.	DESCRIPTION	DATE
1	REVISED PER COUNTY AND TOWN COMMENTS	01/24/20
2	REVISED PER COUNTY AND TOWN COMMENTS	01/24/20
3	REVISED PER COUNTY AND TOWN COMMENTS	01/24/20

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**UTILITY PLAN**  
UTILITY PLAN #1904-005 - SPAM #1  
CATOCTIN ELECTION DISTRICT,  
LEESBURG, LOUDOUN COUNTY, VA  
WAL-MART STORES, INC. BENTONVILLE, AR

**C-16**  
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