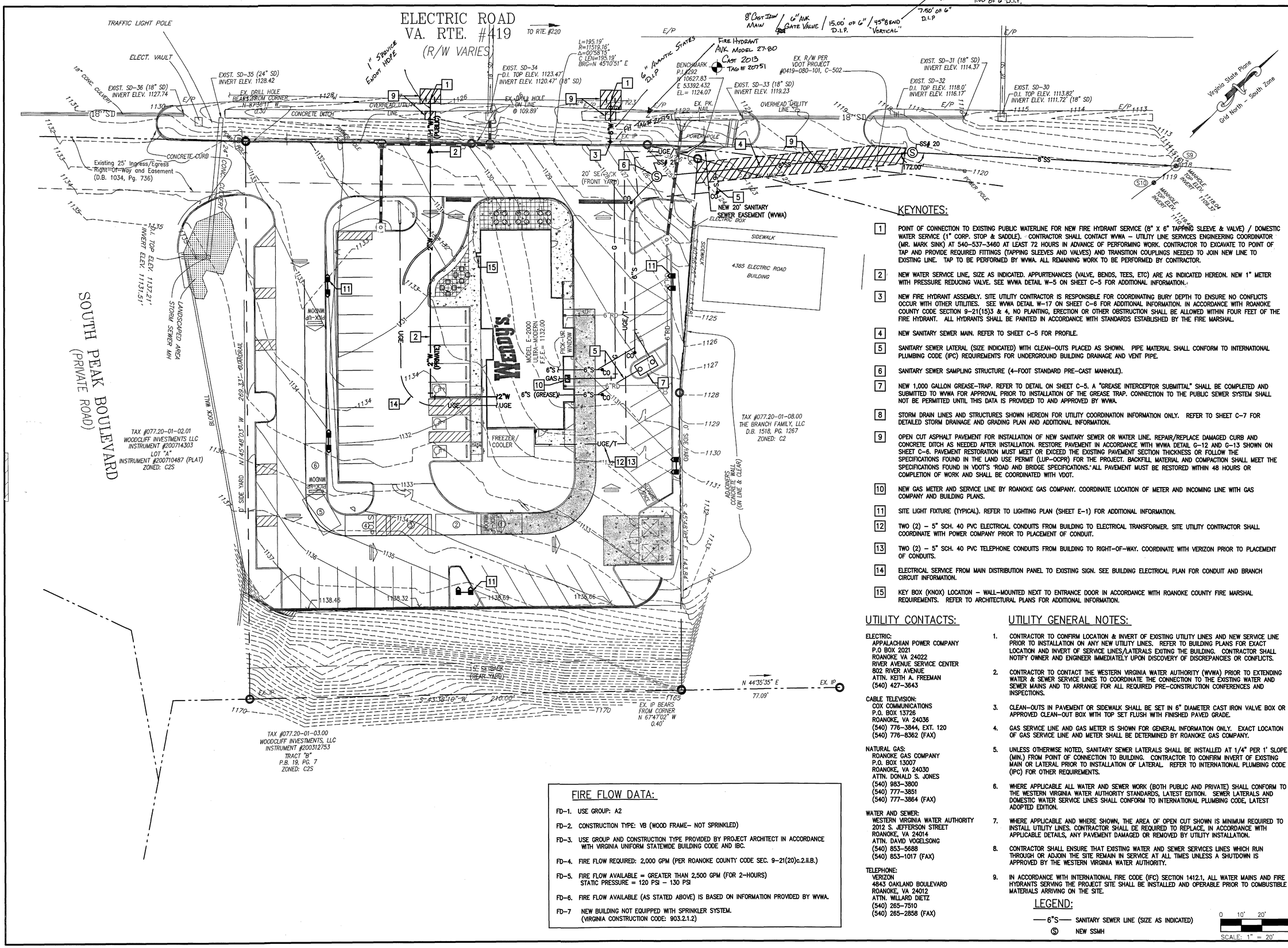

KEYNOTES:

1. POINT OF CONNECTION TO EXISTING PUBLIC WATERLINE FOR NEW FIRE HYDRANT SERVICE (8" X 6" TAPPING SLEEVE & VALVE) / DOMESTIC WATER SERVICE (1" CORP. STOP & SADDLE). CONTRACTOR SHALL CONTACT WVWA – UTILITY LINE SERVICES ENGINEERING COORDINATOR (MR. MARK SINK) AT 540-537-3460 AT LEAST 72 HOURS IN ADVANCE OF PERFORMING WORK. CONTRACTOR TO EXCAVATE TO POINT OF TAP AND PROVIDE REQUIRED FITTINGS (TAPPING SLEEVES AND VALVES) AND TRANSITION COUPLINGS NEEDED TO JOIN NEW LINE TO EXISTING LINE. TAP TO BE PERFORMED BY WVWA. ALL REMAINING WORK TO BE PERFORMED BY CONTRACTOR.
2. NEW WATER SERVICE LINE, SIZE AS INDICATED. APPURTENANCES (VALVE, BENDS, TEES, ETC) ARE AS INDICATED HEREON. NEW 1" METER WITH PRESSURE REDUCING VALVE. SEE WVWA DETAIL W-5 ON SHEET C-5 FOR ADDITIONAL INFORMATION.
3. NEW FIRE HYDRANT ASSEMBLY. SITE UTILITY CONTRACTOR IS RESPONSIBLE FOR COORDINATING BURY DEPTH TO ENSURE NO CONFLICTS OCCUR WITH OTHER UTILITIES. SEE WVWA DETAIL W-17 ON SHEET C-6 FOR ADDITIONAL INFORMATION. IN ACCORDANCE WITH ROANOKE COUNTY CODE SECTION 9-21(15)3 & 4, NO PLANTING, ERECTION OR OTHER OBSTRUCTION SHALL BE ALLOWED WITHIN FOUR FEET OF THE FIRE HYDRANT. ALL HYDRANTS SHALL BE PAINTED IN ACCORDANCE WITH STANDARDS ESTABLISHED BY THE FIRE MARSHAL.
4. NEW SANITARY SEWER MAIN. REFER TO SHEET C-5 FOR PROFILE.
5. SANITARY SEWER LATERAL (SIZE INDICATED) WITH CLEAN-OUTS PLACED AS SHOWN. PIPE MATERIAL SHALL CONFORM TO INTERNATIONAL PLUMBING CODE (IPC) REQUIREMENTS FOR UNDERGROUND BUILDING DRAINAGE AND VENT PIPE.
6. SANITARY SEWER SAMPLING STRUCTURE (4-FOOT STANDARD PRE-CAST MANHOLE).
7. NEW 1,000 GALLON GREASE-TRAP. REFER TO DETAIL ON SHEET C-5. A "GREASE INTERCEPTOR SUBMITTAL" SHALL BE COMPLETED AND SUBMITTED TO WVWA FOR APPROVAL PRIOR TO INSTALLATION OF THE GREASE TRAP. CONNECTION TO THE PUBLIC SEWER SYSTEM SHALL NOT BE PERMITTED UNTIL THIS DATA IS PROVIDED TO AND APPROVED BY WVWA.
8. STORM DRAIN LINES AND STRUCTURES SHOWN HEREON FOR UTILITY COORDINATION INFORMATION ONLY. REFER TO SHEET C-7 FOR DETAILED STORM DRAINAGE AND GRADING PLAN AND ADDITIONAL INFORMATION.
9. OPEN CUT ASPHALT PAVEMENT FOR INSTALLATION OF NEW SANITARY SEWER OR WATER LINE. REPAIR/REPLACE DAMAGED CURB AND CONCRETE DITCH AS NEEDED AFTER INSTALLATION. RESTORE PAVEMENT IN ACCORDANCE WITH WVWA DETAIL G-12 AND G-13 SHOWN ON SHEET C-6. PAVEMENT RESTORATION MUST MEET OR EXCEED THE EXISTING PAVEMENT SECTION THICKNESS OR FOLLOW THE SPECIFICATIONS FOUND IN THE LAND USE PERMIT (LUP-OCPR) FOR THE PROJECT. BACKFILL MATERIAL AND COMPACTION SHALL MEET THE SPECIFICATIONS FOUND IN VDOT'S "ROAD AND BRIDGE SPECIFICATIONS." ALL PAVEMENT MUST BE RESTORED WITHIN 48 HOURS OR COMPLETION OF WORK AND SHALL BE COORDINATED WITH VDOT.
10. NEW GAS METER AND SERVICE LINE BY ROANOKE GAS COMPANY. COORDINATE LOCATION OF METER AND INCOMING LINE WITH GAS COMPANY AND BUILDING PLANS.
11. SITE LIGHT FIXTURE (TYPICAL). REFER TO LIGHTING PLAN (SHEET E-1) FOR ADDITIONAL INFORMATION.
12. TWO (2) – 5" SCH. 40 PVC ELECTRICAL CONDUITS FROM BUILDING TO ELECTRICAL TRANSFORMER. SITE UTILITY CONTRACTOR SHALL COORDINATE WITH POWER COMPANY PRIOR TO PLACEMENT OF CONDUIT.
13. TWO (2) – 5" SCH. 40 PVC TELEPHONE CONDUITS FROM BUILDING TO RIGHT-OF-WAY. COORDINATE WITH VERIZON PRIOR TO PLACEMENT OF CONDUITS.
14. ELECTRICAL SERVICE FROM MAIN DISTRIBUTION PANEL TO EXISTING SIGN. SEE BUILDING ELECTRICAL PLAN FOR CONDUIT AND BRANCH CIRCUIT INFORMATION.
15. KEY BOX (KNOX) LOCATION – WALL-MOUNTED NEXT TO ENTRANCE DOOR IN ACCORDANCE WITH ROANOKE COUNTY FIRE MARSHAL REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.

FIRE FLOW DATA:

FD-1. USE GROUP: A2

FD-2. CONSTRUCTION TYPE: VB (WOOD FRAME– NOT SPRINKLED)

FD-3. USE GROUP AND CONSTRUCTION TYPE PROVIDED BY PROJECT ARCHITECT IN ACCORDANCE WITH VIRGINIA UNIFORM STATEWIDE BUILDING CODE AND IBC.

FD-4. FIRE FLOW REQUIRED: 2,000 GPM (PER ROANOKE COUNTY CODE SEC. 9-21(20)c.2.ii.b.)

FD-5. FIRE FLOW AVAILABLE = GREATER THAN 2,500 GPM (FOR 2-HOURS)
STATIC PRESSURE = 120 PSI – 130 PSI

FD-6. FIRE FLOW AVAILABLE (AS STATED ABOVE) IS BASED ON INFORMATION PROVIDED BY WVWA.

FD-7 NEW BUILDING NOT EQUIPPED WITH SPRINKLER SYSTEM.
(VIRGINIA CONSTRUCTION CODE: 903.2.1.2)

UTILITY CONTACTS:

ELECTRIC:
APPALACHIAN POWER COMPANY
P.O BOX 2021
ROANOKE VA 24022
RIVER AVENUE SERVICE CENTER
802 RIVER AVENUE
ATTN. KEITH A. FREEMAN
(540) 427-3643

CABLE TELEVISION:
COX COMMUNICATIONS
P.O. BOX 13726
ROANOKE, VA 24036
(540) 776-3844, EXT. 120
(540) 776-8362 (FAX)

NATURAL GAS:
ROANOKE GAS COMPANY
P.O. BOX 13007
ROANOKE, VA 24030
ATTN. DONALD S. JONES
(540) 983-3800
(540) 777-3851
(540) 777-3864 (FAX)

WATER AND SEWER:
WESTERN VIRGINIA WATER AUTHORITY
2012 S. JEFFERSON STREET
ROANOKE, VA 24014
ATTN. DAVID VOGELSONG
(540) 853-5688
(540) 853-1017 (FAX)

TELEPHONE:
VERIZON
4843 OAKLAND BOULEVARD
ROANOKE, VA 24012
ATTN. WILLARD DIETZ
(540) 265-7510
(540) 265-2858 (FAX)

UTILITY GENERAL NOTES:

1. CONTRACTOR TO CONFIRM LOCATION & INVERT OF EXISTING UTILITY LINES AND NEW SERVICE LINE PRIOR TO INSTALLATION ON ANY NEW UTILITY LINES. REFER TO BUILDING PLANS FOR EXACT LOCATION AND INVERT OF SERVICE LINES/LATERALS EXITING THE BUILDING. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES OR CONFLICTS.
2. CONTRACTOR TO CONTACT THE WESTERN VIRGINIA WATER AUTHORITY (WVWA) PRIOR TO EXTENDING WATER & SEWER SERVICE LINES TO COORDINATE THE CONNECTION TO THE EXISTING WATER AND SEWER MAINS AND TO ARRANGE FOR ALL REQUIRED PRE-CONSTRUCTION CONFERENCES AND INSPECTIONS.
3. CLEAN-OUTS IN PAVEMENT OR SIDEWALK SHALL BE SET IN 6" DIAMETER CAST IRON VALVE BOX OR APPROVED CLEAN-OUT BOX WITH TOP SET FLUSH WITH FINISHED PAVED GRADE.
4. GAS SERVICE LINE AND GAS METER IS SHOWN FOR GENERAL INFORMATION ONLY. EXACT LOCATION OF GAS SERVICE LINE AND METER SHALL BE DETERMINED BY ROANOKE GAS COMPANY.
5. UNLESS OTHERWISE NOTED, SANITARY SEWER LATERALS SHALL BE INSTALLED AT 1/4" PER 1' SLOPE (MIN.) FROM POINT OF CONNECTION TO BUILDING. CONTRACTOR TO CONFIRM INVERT OF EXISTING MAIN OR LATERAL PRIOR TO INSTALLATION OF LATERAL. REFER TO INTERNATIONAL PLUMBING CODE (IPC) FOR OTHER REQUIREMENTS.
6. WHERE APPLICABLE ALL WATER AND SEWER WORK (BOTH PUBLIC AND PRIVATE) SHALL CONFORM TO THE WESTERN VIRGINIA WATER AUTHORITY STANDARDS, LATEST EDITION. SEWER LATERALS AND DOMESTIC WATER SERVICE LINES SHALL CONFORM TO INTERNATIONAL PLUMBING CODE, LATEST ADOPTED EDITION.
7. WHERE APPLICABLE AND WHERE SHOWN, THE AREA OF OPEN CUT SHOWN IS MINIMUM REQUIRED TO INSTALL UTILITY LINES. CONTRACTOR SHALL BE REQUIRED TO REPLACE, IN ACCORDANCE WITH APPLICABLE DETAILS, ANY PAVEMENT DAMAGED OR REMOVED BY UTILITY INSTALLATION.
8. CONTRACTOR SHALL ENSURE THAT EXISTING WATER AND SEWER SERVICES LINES WHICH RUN THROUGH OR ADJOIN THE SITE REMAIN IN SERVICE AT ALL TIMES UNLESS A SHUTDOWN IS APPROVED BY THE WESTERN VIRGINIA WATER AUTHORITY.
9. IN ACCORDANCE WITH INTERNATIONAL FIRE CODE (IFC) SECTION 1412.1, ALL WATER MAINS AND FIRE HYDRANTS SERVING THE PROJECT SITE SHALL BE INSTALLED AND OPERABLE PRIOR TO COMBUSTIBLE MATERIALS ARRIVING ON THE SITE.

LEGEND:

—6"S— SANITARY SEWER LINE (SIZE AS INDICATED)
Ⓢ NEW SSMH

0 10' 20' 40'
SCALE: 1" = 20'

COMMONWEALTH OF VIRGINIA
WM. THOMAS AUSTIN
Lic. No. 039907
PROFESSIONAL ENGINEER
11/22/13

Revisions		Date
1	FIRST REVIEW COMMENTS	12/18/13
2	WVWA COMMENTS	12/31/13
3	WVWA COMMENTS	01/9/14
4	SUBMITTED FOR APPROVAL STAMP	01/22/14

Issue Date: NOV. 22, 2013
Drawn By: RWA
Designed By: RWA
Checked By: WTA
Date: 11/22/13

Mattern & Craig
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701 FIRST STREET, S.W.
ROANOKE, VIRGINIA 24011
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SITE DEVELOPMENT PLANS
NEW WENDY'S – ROANOKE, VIRGINIA

UTILITY PLAN – WATER & SEWER

ROANOKE, VIRGINIA

Vertical Scale:

Horizontal Scale: 1" = 20'

Commission Number: 3361

Sheet No.: C-4