SITE NOTES:

1. NO CONSTRUCTION/FIELD CHANGES WITHOUT THE APPROVAL OF THE CONSULTING ENGINEER, ROANOKE COUNTY, VDOT, AND/OR WVWA.

2. ANY NEW ALIGNMENTS, CHANGES IN GRADES, ALTERNATIVE PIPE SIZE OR MANHOLES OR ESC MEASURES WILL REQUIRE A NEW SET OF PLANS STAMPED BY THE CONSULTING ENGINEER. PLAN SHEETS CAN BE 8.5"x11" IF THE INFORMATION IS LEGIBLE.

3. ALL BUILDING DIMENSIONS AND UTILITY CONNECTIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS. THE CONCRETE PAD CONSTRUCTION SHALL BE COORDINATED WITH THE ARCHITECTURAL PLANS.

4. ROOF LEADERS FOR BUILDING SHALL DISCHARGE AT GRADE TO THE PARKING SPACES IN THE REAR OF THE BUILDING. (SOUTHWEST LOCATION) G.C. SHALL PROVIDE COMMERCIAL GRADE SPLASH BLOCKS FOR DOWNSPOUT EXTENSIONS TO ENSURE ALL ROOF WATER IS CONVEYED TO THE PARKING AREA.

5. ALL STANDARD PARKING LOT STRIPING SHALL BE PAINTED WITH 4" WIDE WHITE PAINT. HANDICAP SPACES SHALL BE PAINTED WITH 4" WIDE BLUE PAINT.

6. G.C. SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES TO BRING NECESSARY UTILITIES TO THE PROPOSED BUILDING.

   A. ROANOKE GAS SHALL PROVIDE THE GAS LATERAL FROM THE EXISTING MAIN TO THE METER SETTER AT THE BUILDING
   B. A.E.P. – SHALL PROVIDE THE REQUIRED ELECTRICAL CABLE FROM THE UTILITY POLE TO THE METER AT THE BUILDING IN THE GENERAL CONTRACTORS SUPPLIED & INSTALLED CONDUIT.
   C. COX COMMUNICATIONS – G.C. SHALL COORDINATE DIRECTLY TO DETERMINE WHERE THE PROVIDER WILL PROVIDE SERVICE FROM AND CONNECTION TO THE BUILDING.

7. G.C. SHALL COORDINATE & PROVIDE ALL REQUIRED CONDUIT INSTALLATION FOR ALL NECESSARY UTILITIES FOR THE BUILDING. CONDUIT SHALL BE PROVIDED FOR ALL UTILITIES LOCATED UNDER PAVEMENT OR CONCRETE PRIOR TO PLACEMENT.

8. G.C. SHALL ENSURE POSITIVE DRAINAGE AWAY FROM PROPOSED BUILDING.

9. ALL SITE GRADING AND SUB-GRADE SHALL CONFORM TO THE RECOMMENDATIONS AND REQUIREMENTS SETFORTH BY THE GEOTECHNICAL REPORT PROVIDED BY F&R.

10. G.C. SHALL CONFIRM DURING THE EXCAVATION PROCESS THAT THE EXISTING PAVEMENT CUT SHOWN ON THE EAST SIDE OF THE EXISTING MOTEL BUILDING DOES NOT CONTAIN AN UNDERDRAIN SYSTEM OR OTHER PIPING BURIED UNDERGROUND.

11. ALL SITE IMPROVEMENTS, GRADING, MATERIAL PLACEMENT, AND COMPACTION STANDARDS SHALL COMPLY WITH THE GEOTECHNICAL REPORT FROM F&R DATED SEPTEMBER 2013

CONDUIT NOTES:

1. G.C. SHALL PROVIDE (2) 4" PVC SCHEDULE 40 CONDUITS FROM BUILDING TO PROVIDE POWER TO THE PROPOSED MONUMENT SIGN.

2. G.C. SHALL PROVIDE (4) 4" PVC SCHEDULE 40 CONDUITS BETWEEN THE EXISTING UTILITY SERVICE AND PROPOSED SERVICE IN BUILDING. G.C. TO COORDINATE DIRECTLY WITH AEP/VERIZON/T.E.C./ETC.

SANITARY SEWER SCHEDULE:

FROM	INV IN	TO	INV OUT	
E	1146.12	D	1146.0	6' OF 4" SDR-35 PVC PIPE @ 2.0%
D	1146.0	C	1144.08	26' OF 4" SDR-35 PVC PIPE @ 7.3%
C	1144.08	B	1143.32	38' OF 4" SDR-35 PVC PIPE @ 2.0%
BLDG.	1145.0	B	1143.32	23' OF 4" SDR-35 PVC PIPE @ 7.3%
B	1138.72	A	1137.58	57' OF 4" SDR-35 PVC PIPE @ 2.0%
A	1137.58	EX. MH.	1137.4	9' OF 6" SDR-35 PVC PIPE @ 2.0%

D= 1,500 GALLON GREASE TRAP (SEE DETAIL) (TOPS TO BE SET FLUSH WITH CONC.)

*NOTE: ALL S.S. TOP LOCATED WITH VEHICULAR AREAS SHALL HAVE TRAFFIC BEARING TOPS

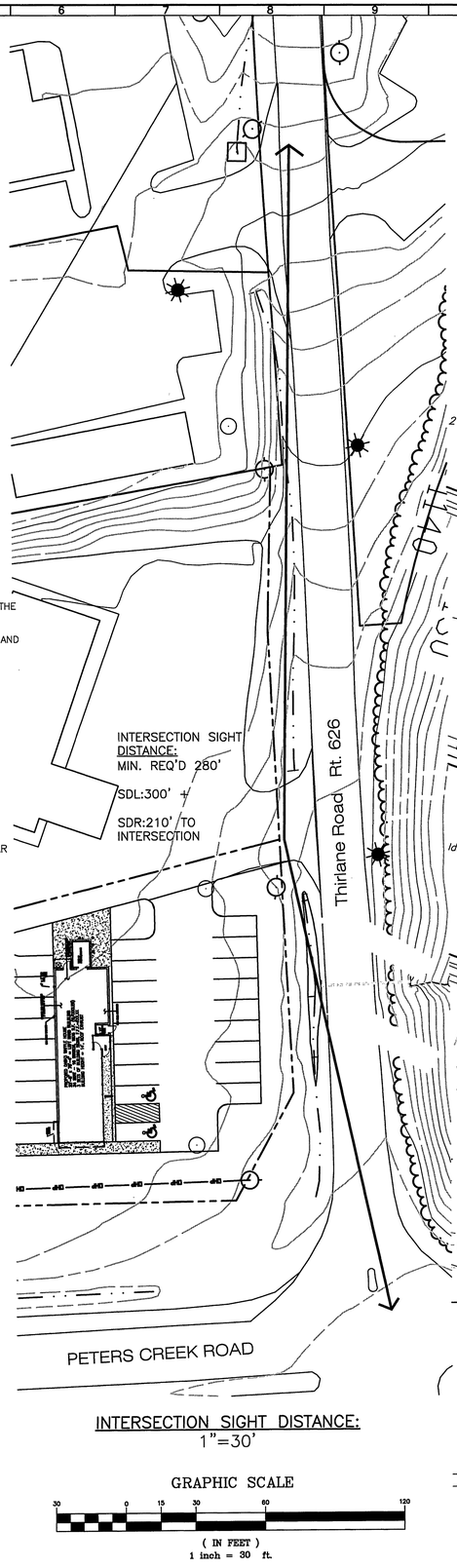
(STRUCTURE A SHALL BE A ST'D SAMPLING MANHOLE TYP.)

STORM STRUCTURE SCHEDULE:

1. VDOT ST'D DI-1 (GRATE w/SQUARE TOP) TOP=1145.8 INV. OUT=1141.8
2. 14 LF OF 15" ALLUMINIZED CMP @ 2% INV. OUT TO SWM=1141.52
3. TRAFFIC BEARING ACCESS MANHOLE W/CONC. COLLAR TOP=1146.5 (SEE SHEET C11)
4. 60 LF OF 48" ALLUMINIZED CMP UNDERGROUND S.W.M. (PIPE SLOPE 1.0%) UPPER INV:1139.20 INV. OUT:1138.60 (SEE SHEET C11)
5. TRAFFIC BEARING ACCESS MANHOLE W/CONC. COLLAR TOP=1147.1 (SEE SHEET C11)

   ORIFICE INFO: (3.5" ORIFICE AT ELEV. 1138.60 ON OUTLET PIPE FROM U.G. S.W.M. PIPE W/DEBRIS RACK)

6. VDOT ST'D DI-3B (6' THROAT) TOP=1144.7 INV. OUT=1140.7
7. 28 LF OF 15" ALLUMINIZED CMP @ 2% INV. OUT TO SWM=1140.14
8. 28 LF OF 15" HDPE N-12 CMP @ 2% INV. OUT=1138.04
9. 6'x4' FILTERRA UNIT W/4" PVC DISCHARGE PIPE TO CONNECT DIRECTLY TO S.W.M. PIPE TOP=1146.5 INV. OUT FROM FILTERRA=1143 INV. IN TO STR. #1=1142.0 (PROVIDE WATERTIGHT FERNCO COUPLER OR APPROVED EQUAL FOR CONNECTION TO STUB OUT FOR S.W.M. FACILITY)

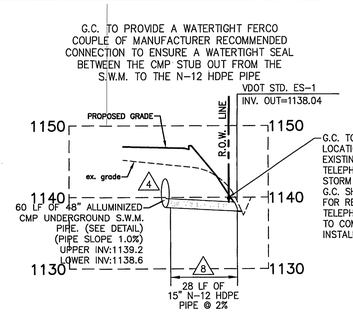


INTERSECTION SIGHT DISTANCE:
1"=30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

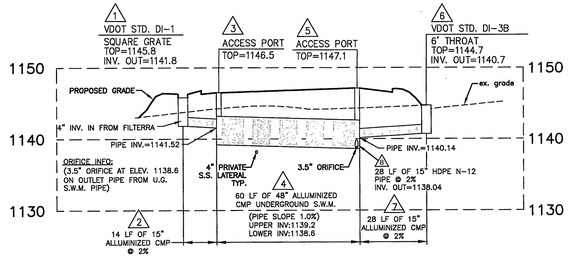
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

NORTH



STORM SEWER PROFILE (STR. #5 - #8)
NOTE: G.C. TO PROVIDE NECESSARY TRENCH BOXES FOR CONSTRUCTION AND COMPLY WITH ALL OSHA STANDARDS AND PROCEDURES

1"=30' HORIZONTAL
1"=10' VERTICAL



STORM SEWER PROFILE (STR. #1 - #6)
1"=30' HORIZONTAL
1"=10' VERTICAL

NOTE: G.C. TO PROVIDE NECESSARY TRENCH BOXES FOR CONSTRUCTION AND COMPLY WITH ALL OSHA STANDARDS AND PROCEDURES

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COMMONWEALTH OF VIRGINIA
CHRISTOPHER P. BURNS
Lic. No.047338
11-5-2013
PROFESSIONAL ENGINEER

WAFFLE HOUSE - 627 RELOCATION

GRADING PLAN

CATAWBA DISTRICT
ROANOKE COUNTY, VIRGINIA

DRAWN BY	BTC
DESIGNED BY	BTC
CHECKED BY	CPB
DATE	9-19-2013
SCALE	1"=20'

REVISIONS:
10-18-2013
11-5-2013

SHEET NO.
C05

JOB NO. R1300107.00