STORM SEWER STRUCTURE SCHEDULE	
STRC. NUMBER	STRC. DATA
1	DI–2A, L=2.2' TOP: 1101.80 INV. OUT: 1097.80 (TO #2, 15" HDPE,NE)
2	VDOT STD. DI–1 TOP: 1101.50 INV. IN: 1097.10 (FROM #1, 15" HDPE, SW) INV. OUT: 1097.00 (TO #3, 15" HDPE,NE)
3	VDOT STD. DI–2A (L=6–FT) TOP: 1102.50 INV. IN: 1096.30 (FROM #2, 15" HDPE, SW) INV. IN: 1096.30 (FROM #4, 15" HDPE, W) INV. OUT: 1096.20 (TO #5, 15" HDPE,NE)
4	VDOT STD. DI–2A (L=6–FT) TOP: 1104.50 INV. OUT: 1100.00 (TO #3, 15" HDPE,E)
5	ADS BARACUDA MAX STORMWATER SEPERATOR TOP: 1101.35 INV. IN: 1095.00 (FROM #3, 15" HDPE, SW) INV. OUT: 1094.90 (TO #6, 15" HDPE,E)
6	VDOT STD. MH–1 (48–IN DIA.) TOP: 1100.12 INV. IN: 1094.10 (FROM #5, 15" HDPE, W) INV. OUT: 1093.10 (TO #7, 18" HDPE,SE)
8	VDOT STD. MH–1 (48–IN DIA) TOP: 1098.60 INV. IN: 1093.00 (FROM #7, 48" HDPE, SW) INV. OUT: 1093.00 (TO #STM–31, 15" HDPE,SE)
9A	NYLOPLAST 12" TEE (18"X8") TOP: 1092.00 INV. IN: 1092.20 (FROM #9, 8" HDPE, W)
9	24" DIA GRATE NYLOPLAST INLINE DRAIN TRAFFIC BEARING TOP: 1100.40 INV. OUT: 1096.00 (TO #9A, 8" HDPE,E)

STORM SEWER STRUCTURE SCHEDULE	
STRC. NUMBER	STRC. DATA
10	24" DIA GRATE NYLOPLAST INLINE DRAIN TOP: 1101.50 INV. OUT: 1099.50 (TO #11, 8" HDPE,W)
11A	ADS N12 TEE (12"X8") TOP: 1095.82 INV. IN: 1095.09 (FROM #11, 8" HDPE, N)
11	24" DIA GRATE NYLOPLAST INLINE DRAIN TOP: 1101.50 INV. IN: 1099.00 (FROM #10, 8" HDPE, E) INV. OUT: 1099.00 (TO #11A, 8" HDPE,S)
12	NYLOPLAST (2'X3') CURB INLET TOP: 1101.50 INV. OUT: 1099.50 (TO #13, 8" HDPE,E)
13	NYLOPLAST (2'X3') CURB INLET TOP: 1101.50 INV. IN: 1099.20 (FROM #12, 8" HDPE, W) INV. OUT: 1099.20 (TO #14, 8" HDPE,N)
14	BEND TOP: 1102.00 INV. IN: 1098.72 (FROM #13, 8" HDPE, S) INV. OUT: 1098.72 (TO #15, 8" HDPE,NE)
15	BEND TOP: 1102.00 INV. IN: 1098.49 (FROM #14, 8" HDPE, SW) INV. OUT: 1098.49 (TO #16, 8" HDPE,E)
16	24" DIA. NYLOPLAST INLINE DRAIN GRATE TOP: 1101.70 INV. IN: 1098.05 (FROM #15, 8" HDPE, W) INV. OUT: 1098.05 (TO #17, 8" HDPE,E)
17	ADS N–12 TEE W/ 24" DIA. DRAIN COVER TOP: 1097.48 INV. IN: 1096.75 (FROM #16, 8" HDPE, W)

STORM SEWER STRUCTURE SCHEDULE	
STRC. NUMBER	STRC. DATA
18	24" DIA. INLINE DRAIN TOP: 1101.50 INV. OUT: 1098.50 (TO #19, 8" HDPE,SW)
19	24" DIA. INLINE DRAIN TOP: 1101.50 INV. IN: 1098.15 (FROM #18, 8" HDPE, NE) INV. OUT: 1098.15 (TO #20, 8" HDPE,S)
20	24" DIA. INLINE DRAIN TOP: 1101.50 INV. IN: 1097.79 (FROM #19, 8" HDPE, N) INV. OUT: 1097.79 (TO #STM–13, 8" HDPE,S)

STORM SEWER TABLE
STM–01 POSSIBLE MANHOLE UNDER ASPHALT
STM–04 POSSIBLE MANHOLE UNDER ASPHALT
STM–06 GRATE TOP = 1100.9' INVN 12" RCP = 1099.1' INVN 10" RCP = 1093.0' INVO 10" RCP = 1092.7'
STM–08 GRATE TOP = 1101.2' INVN 4" TC = 1096.2' INVN 4" TC = 1096.4' INVN 6" CONC = 1096.4' INVN 10" = 1097.6' INVN 10" RCP = 1096.1' INVO 10" METAL = 1096.1'
STM–09 GRATE TOP = 1099.9' INVN 10" RCP = 1097.5' INVO 10" RCP = 1097.3'
STM–10 GRATE TOP = 1101.3' INVN 8" = 1096.4' INVN 12" = 1094.6' INVN 12" = 1094.7' INVO 10" RCP = 1094.4'
STM–11 GRATE TOP = 1101.5' INVN 12" RCP = 1095.1' INVO 12" RCP = 1095.2'
STM–13 GRATE TOP = 1100.3' INVN 4" TC = 1097.7' INVO 8" CONC = 1097.5'
STM–31 MH TOP = 1090.74' INVN 15" RCP = 1086.6' INVO 15" RCP = 1086.5'

SAN SEWER TABLE
SAN–01 MH TOP = 1100.58' INVN 8" RCP = 1089.0' INVO 8" RCP = 1088.9'
SAN–02 MH TOP = 1100.58' INVN 8" RCP = 1093.9' INVO 8" RCP = 1093.8'
SAN–03 MH TOP = 1100.40' INVN 8" RCP = 1093.1' INVO 8" RCP = 1093.0'
SAN–04 MH TOP = 1101.95' INVN 4" TC = 1094.9' INVN 6" = 1094.9' INVN 8" = 1095.0' INVO 8" RCP = 1094.8' INVO 8" RCP = 1094.9'
SAN–05 MH TOP = 1102.28' INVN 8" RCP = 1096.1' INVO 8" RCP = 1096.1'
SAN–06 MH TOP = 1107.75' INVN 8" RCP = 1098.6' INVO 8" RCP = 1098.7'

FIRE MARSHALL REQUIREMENTS

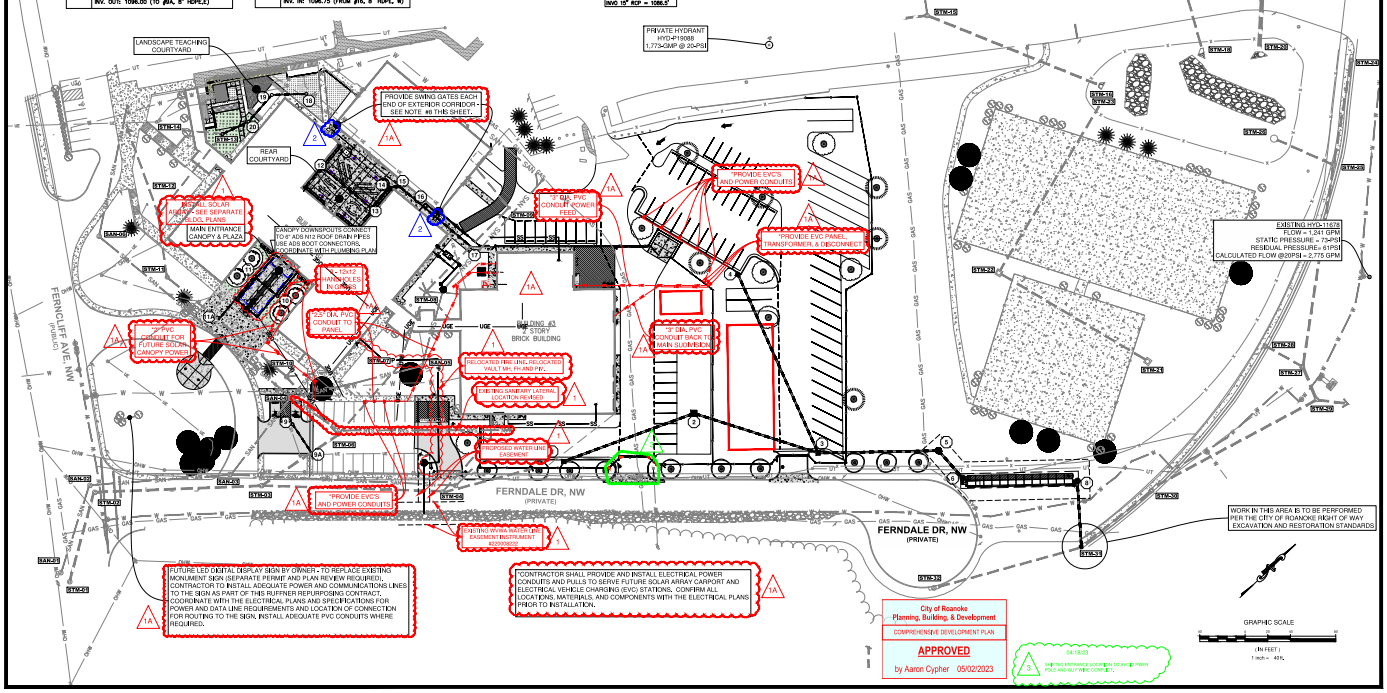
- THE EXISTING BUILDINGS FALL UNDER USE GROUP E (EDUCATIONAL).
- USE GROUP E UP TO TWO STORIES SHALL PROVIDE 2,000GPM FIRE FLOW FOR TWO HOURS AT A MINIMUM RESIDUAL PRESSURE OF 20 PSI.
- CALCULATED FLOW AT HYDRANT #11678 = 2775 GPM @ 35 PSI(WVWA TEST CONDUCTED 03/03/2023)
  - FLOW = 1,241 GPM, STATIC PRESSURE = 73 PSI
  - AVAILABLE FLOW AT PROPOSED HYDRANTS APPROXIMATELY 1,449 GPM @ 20 PSI
  - PRIVATE HYDRANT FY0898 WAS CALCULATED AT 1,773 GPM @ 20 PSI
- SECURITY GATES MAY BE INSTALLED ACROSS FIRE APPARATUS ACCESS ROADS WHEN APPROVED BY THE FIRE MARSHAL OR HIS/HER DESIGNEE. SECURITY GATES MAY BE AUTOMATICALLY OR MANUALLY OPERATED IN ACCORDANCE WITH THIS SECTION.
- WHERE A SECURITY GATE SERVES AS THE ONLY MEANS OF ACCESSING A BUILDING, THE SECURITY GATE MUST BE CAPABLE OF AUTOMATIC OPERATION AND EQUIPPED WITH AN ELECTRIC KEY SWITCH THAT IS COMPATIBLE WITH THE KNOX-BOX SYSTEM AS ADOPTED BY ROANOKE FIRE-EMS (SEE POLICY ON KNOX-BOX ENTRY SYSTEMS). THE SECURITY GATE MAY BE MANUALLY OPERATED AND EQUIPPED WITH A PADLOCK THAT IS COMPATIBLE WITH THE KNOX-BOX SYSTEM ADOPTED BY ROANOKE FIRE-EMS, HOWEVER, THE FIRE MARSHAL OR HIS/HER DESIGNEE MAY REQUIRE ANY SECURITY GATE UNDER THIS SECTION TO HAVE AUTOMATIC OPERATION WHERE SUCH GATE WOULD BE NECESSARY FOR LIFESAVING OR PROTECTIVE PURPOSES.
- SECURITY GATE TO BE EQUIPPED WITH A KNOX 3501 OR 3502 SERIES ELECTRICAL KEY SWITCH THAT IS CONFIGURED TO OPEN WHEN POWER IS LOST. THE KEY SWITCH MUST BE COMPATIBLE WITH THE KNOX-BOX SYSTEM. CONTACT TO COORDINATE KNOX-BOX LOCATIONS WITH ARCHITECT & CITY OF ROANOKE FIRE MARSHAL'S OFFICE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO ENSURE ALL ELECTRIC AND MANUAL GATES THROUGHOUT THE COMPLEX WILL INCLUDE KNOX BOX SYSTEMS AS REQUIRED PER THE FIRE MARSHALL'S OFFICE. CONTACT THE FIRE MARSHALL FOR APPROVED KNOX-BOX DEVICES BEFORE INSTALLATION.

UTILITY CONNECTION NOTES:

- NO NEW SANITARY CONNECTION IS REQUIRED - EXISTING 6" LATERAL TO REMAIN.
- EXISTING WATER METER AND DOMESTIC SERVICE TO REMAIN. EXISTING INTERIOR FIXTURES UNCHANGED.
- SITE CONTRACTOR SHALL CONNECT WATER AT 5' OUTSIDE BUILDING FACE.
- ANY EXISTING WATER OR SEWER CONNECTION SERVING THIS PROPERTY NOT UTILIZED FOR THIS DEVELOPMENT SHALL BE ABANDONED AT THE MAIN BY THE DEVELOPER.
- ANY EXISTING SUMP PUMP CONNECTIONS OR OTHER SOURCES OF GROUNDWATER COLLECTION TIED DIRECTLY TO THE SANITARY SEWER SHALL BE DISCONNECTED.
- SEWER AND WATER UTILITIES INSIDE THE RIGHT-OF-WAY ARE PUBLIC. UTILITIES OUTSIDE THE RIGHT-OF-WAY ARE PRIVATE.
- INTERNAL PLUMBING SEDIMENT TRAPS DETAILED ON PLUMBING PLANS - 4-IN. PVC FROM PLUMBING SEDIMENT TRAPS SHOWN ON SHEETS C06 & C05.
- ALL NEW OR RELOCATED UTILITY SERVICE LATERALS ON SERVICE LINES SHALL BE LOCATED UNDERGROUND.

MISCELLANEOUS SITE NOTES

1. PAVEMENT SHALL BE SAWCUT AT LIMITS SHOWN FOR DEMOLITION.
2. INSTALL CONCRETE WHEEL STOPS AT ALL PARKING SPACES WHERE THERE IS NO CURB AND GUTTER.
3. PAINT PARKING SPACE LINES AND NO PARKING ZONES PER VDOT SPECIFICATIONS.
4. [illegible] SELECTION WITH OWNER AND ARCHITECT. INSTALL ALL FENCING COMPONENTS PER MANUFACTURER'S SPECIFICATIONS.
5. COORDINATE SITE FURNISHING SELECTION WITH OWNER AND ARCHITECT.
6. COORDINATE GATE REMOTE ACCESS / CARD READER SYSTEM WITH OWNER. INSTALL POWER CONDUITS AS NEEDED TO SYSTEM COMPONENTS - COORDINATE WITH ELECTRICAL SITE PLAN.
7. NEW FENCING ALONG PERIMETER TO BE SHALL BE 6' HIGH CHAIN LINK FENCE, MANUFACTURER'S STANDARD FULLY GALVANIZED CHAIN LINK FEE LIMITS SHOWN ON C06 (HEIGHT VS. MANUFACTURER OF DECORATIVE FENCE - AMCTCO, SATURN DESIGN OR VICON BUILDINGS COLOR VS. MANUFACTURER OF GALVANIZED CHAIN LINK MATERIALS) OR APPROVED EQUAL. [illegible] SYSTEM AND HARDWARE, ALL OTHER CHAIN LINK FENCE, WHERE SPECIFIED, SHALL MATCH EXISTING.
8. PROVIDE 4-7' WIDE SWING GATES (TWO 2' PANELS) AT END OF EACH REAR EXTERIOR CORRIDOR WHERE SHOWN ON THE DRAWINGS, MATCH MATERIAL TO DECORATIVE FENCE TYPE SELECTED IN #7 ABOVE. CENTER GATES BETWEEN ADJACENT WALL FACES. COORDINATE HARDWARE WITH ARCHITECT.
9. SEE ELECTRICAL PLANS FOR BUILDING AND SITE LIGHTING INFORMATION.
10. SEE SHEET C05 FOR DETENTION SYSTEM DETAILS.



CA architecture
parker DESIGN GROUP

STATE OF VIRGINIA JACK D. ELLINWOOD Lic. No. 001107 04/28/2023

RUFFNER CAREER AND TECHNICAL EDUCATION CENTER

ROANOKE, VIRGINIA

ROANOKE CITY PUBLIC SCHOOLS

REVISIONS		
No.	DATE	DESCRIPTION
	06/17/22	1ST CITY REVIEW
1A	12/04/22	MODIFY LED SIGN REQUIREMENTS AND NOTE, ADD SWING GATE ANNOTATION AND NOTE, ADD SOLAR ARRAY POWER CONDUITS AND EVC PEDESTALS WITH SUPPORTING PANELS.
1	12/04/22	SHOW SOLAR ARRAY LOCATION AT MAIN ENTRANCE. RELOCATE WLL.
2	02/05/23	CHANGE ALUMINUM EXTRUDED FENCE AND GALVANIZED CHAIN LINK FENCE DETS. REMOVE CARD ACCESS READER AT REAR SWING GATES.

DRAWN BY:	JDEJUMD
REV'D BY:	JDE
DATE:	06/17/2022
SCALE:	AS SHOWN

LAYOUT - OVERALL

C08

SHEET ____ of X