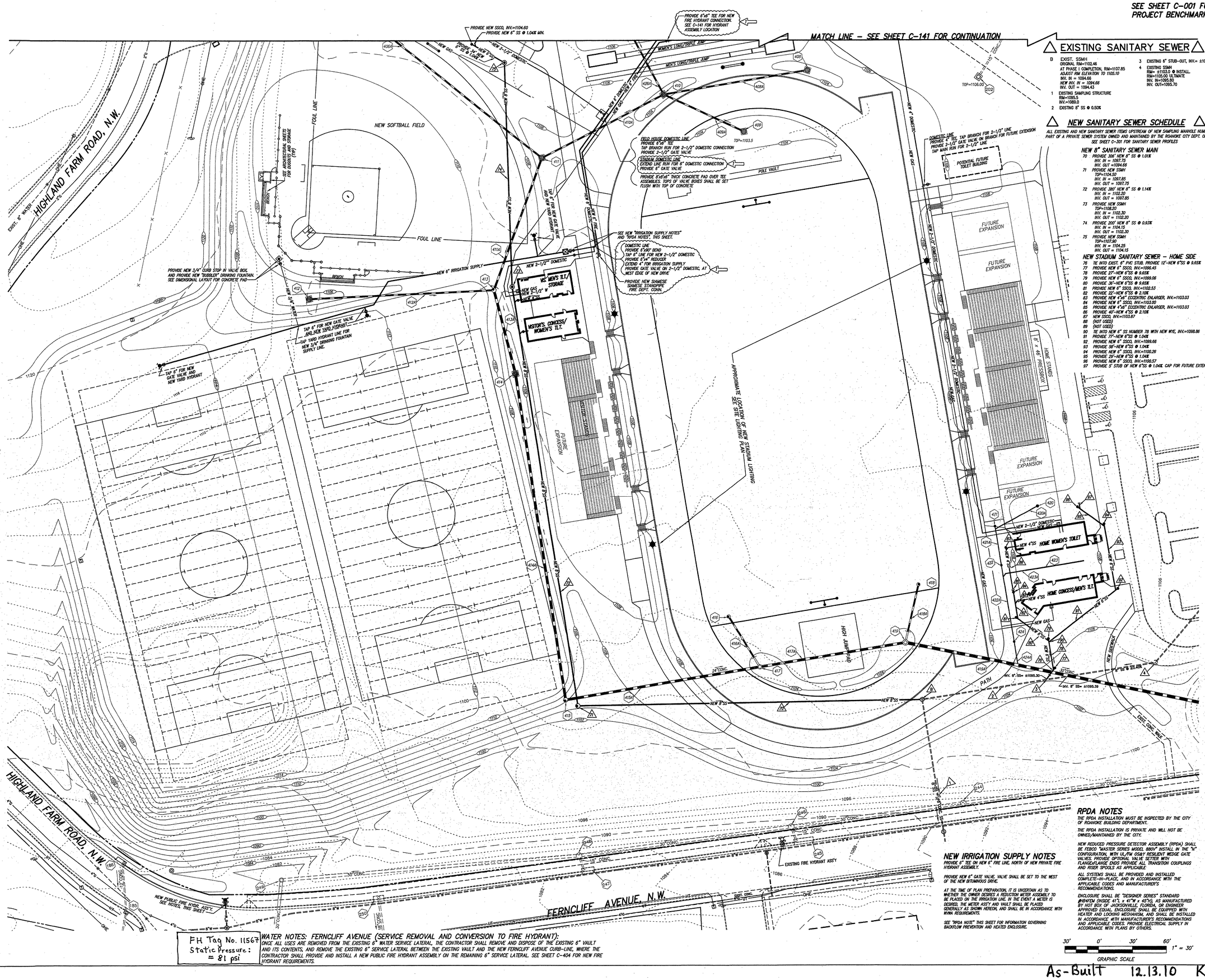
SEE SHEET C-001 FOR PROJECT BENCHMARKS

MATCH LINE - SEE SHEET C-141 FOR CONTINUATION



EXISTING SANITARY SEWER

B EXIST. SSMH
ORIGINAL RIM=1102.46
AT PHASE 1 COMPLETION, RIM=1107.85
ADJUST RIM ELEVATION TO 1105.10
INV. IN = 1094.66
NEW INV. IN = 1094.66
INV. OUT = 1094.43

1 EXISTING SAMPLING STRUCTURE
RIM=1095.5
INV.=1089.0

2 EXISTING 8" SS @ 0.50%

3 EXISTING 6" STUB-OUT, INV.= ±1095.30

4 EXISTING SSMH
RIM= ±1103.0 @ INSTALL.
RIM=1105.00 ULTIMATE
INV. IN=1095.80
INV. OUT=1095.70

NEW SANITARY SEWER SCHEDULE

ALL EXISTING AND NEW SANITARY SEWER ITEMS UPSTREAM OF NEW SAMPLING MANHOLE NUMBER 1 ARE PART OF A PRIVATE SEWER SYSTEM OWNED AND MAINTAINED BY THE ROANOKE CITY DEPT. OF SCHOOLS.

SEE SHEET C-301 FOR SANITARY SEWER PROFILES

NEW 8" SANITARY SEWER MAIN

70 PROVIDE 306' NEW 8" SS @ 1.01%
INV. IN = 1097.75
INV. OUT =1094.66
71 PROVIDE NEW SSMH
TOP=1104.50
INV. IN = 1097.85
INV. OUT = 1097.75
72 PROVIDE 380' NEW 8" SS @ 1.14%
INV. IN = 1102.20
INV. OUT = 1097.85
73 PROVIDE NEW SSMH
TOP=1108.20
INV. IN = 1102.30
INV. OUT = 1102.20
74 PROVIDE 200' NEW 8" SS @ 0.93%
INV. IN = 1104.15
INV. OUT = 1102.30
75 PROVIDE NEW SSMH
TOP=1107.90
INV. IN = 1104.25
INV. OUT = 1104.15

NEW STADIUM SANITARY SEWER - HOME SIDE

76 TIE INTO EXIST. 6" PVC STUB. PROVIDE 12'-NEW 6"SS @ 9.65%
77 PROVIDE NEW 6" SSCO, INV.=1098.45
78 PROVIDE 27'-NEW 6"SS @ 9.65%
79 PROVIDE NEW 6" SSCO, INV.=1098.06
80 PROVIDE 36'-NEW 6"SS @ 9.65%
81 PROVIDE NEW 6" SSCO, INV.=1102.53
82 PROVIDE 22'-NEW 6"SS @ 2.10%
83 PROVIDE NEW 4"x6" ECCENTRIC ENLARGER, INV.=1103.03
84 PROVIDE NEW 6" SSCO, INV.=1103.00
85 PROVIDE NEW 4"x6" ECCENTRIC ENLARGER, INV.=1103.03
86 PROVIDE 40'-NEW 4"SS @ 2.10%
87 NEW SSCO, INV.=1103.87
88 (NOT USED)
89 (NOT USED)
90 TIE INTO NEW 6" SS NUMBER 78 WITH NEW WYE, INV.=1098.86
91 PROVIDE 77'-NEW 6"SS @ 1.04%
92 PROVIDE NEW 6" SSCO, INV.=1099.66
93 PROVIDE 58'-NEW 6"SS @ 1.04%
94 PROVIDE NEW 6" SSCO, INV.=1100.26
95 PROVIDE 29'-NEW 6"SS @ 1.04%
96 PROVIDE NEW 6" SSCO, INV.=1100.57
97 PROVIDE 5' STUB OF NEW 6"SS @ 1.04% CAP FOR FUTURE EXTENSION

RPDA NOTES

THE RPDA INSTALLATION MUST BE INSPECTED BY THE CITY OF ROANOKE BUILDING DEPARTMENT.

THE RPDA INSTALLATION IS PRIVATE AND WILL NOT BE OWNED/MAINTAINED BY THE CITY.

NEW REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) SHALL BE FEBCO "MASTER SERIES MODEL 860V" INSTALL IN THE "V" CONFIGURATION, WITH UL/FM OS&Y RESILIENT WEDGE GATE VALVES. PROVIDE OPTIONAL VALVE SETTER WITH FLANGE/FLANGE ENDS. PROVIDE ALL TRANSITION COUPLINGS AND RISER SPOOLS AS APPLICABLE.

ALL SYSTEMS SHALL BE PROVIDED AND INSTALLED COMPLETE-IN-PLACE, AND IN ACCORDANCE WITH THE APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.

ENCLOSURE SHALL BE "DESIGNER SERIES" STANDARD #HHFSM (INSIDE 41"L x 41"W x 45"H), AS MANUFACTURED BY HOT BOX OF JACKSONVILLE, FLORIDA, OR ENGINEER APPROVED EQUAL. ENCLOSURE SHALL BE EQUIPPED WITH HEATER AND LOCKING MECHANISM, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ELECTRICAL SUPPLY IN ACCORDANCE WITH PLANS BY OTHERS.

NEW IRRIGATION SUPPLY NOTES

PROVIDE 6" TEE ON NEW 6" FIRE LINE, NORTH OF NEW PRIVATE FIRE HYDRANT ASSEMBLY.

PROVIDE NEW 6" GATE VALVE. VALVE SHALL BE SET TO THE WEST OF THE NEW BITUMINOUS DRIVE.

AT THE TIME OF PLAN PREPARATION, IT IS UNCERTAIN AS TO WHETHER THE OWNER DESIRES A REDUCTION METER ASSEMBLY TO BE PLACED ON THE IRRIGATION LINE. IN THE EVENT A METER IS DESIRED, THE METER ASSY AND VAULT SHALL BE PLACED GENERALLY AS SHOWN HEREON, AND SHALL BE IN ACCORDANCE WITH WWA REQUIREMENTS.

SEE "RPDA NOTE" THIS SHEET FOR INFORMATION GOVERNING BACKFLOW PREVENTION AND HEATED ENCLOSURE.

FH Tag No. 11567
Static Pressure: = 81 psi

WATER NOTES: FERNCLIFF AVENUE (SERVICE REMOVAL AND CONVERSION TO FIRE HYDRANT):
ONCE ALL USES ARE REMOVED FROM THE EXISTING 6" WATER SERVICE LATERAL, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING 6" VAULT AND ITS CONTENTS, AND REMOVE THE EXISTING 6" SERVICE LATERAL BETWEEN THE EXISTING VAULT AND THE NEW FERNCLIFF AVENUE CURB-LINE. WHERE THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEW PUBLIC FIRE HYDRANT ASSEMBLY ON THE REMAINING 6" SERVICE LATERAL. SEE SHEET C-404 FOR NEW FIRE HYDRANT REQUIREMENTS.

GRAPHIC SCALE 30' 0' 30' 60' 1" = 30'

As-Built 12.13.10 K. Winslow

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Structural Consultant
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Location of Area Shown Courtesy of Roanoke G.I.S. P.O. 83

CWA
ENGINEERS / SURVEYORS / PLANNERS
CWA W.O.: 09-0016 NB: Rke. City Schools

WILLIAM FLEMING HIGH SCHOOL REVISED PHASE 2 AND STADIUM CONSTRUCTION

School Site Project No. 124-40A
Literary Loan No. 11255

NUMBER	ISSUE	DATE
1	Per 1st City Review	08/24/09

Revisions

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COMMONWEALTH OF VIRGINIA
CORBIN L. WHITE
Lic. No. 23843
09-24-09
PROFESSIONAL ENGINEER

Sheet Information

Date	August 05, 2009
Job Number	XXXXXXXXX
Scale	As Shown
Drawn	C.L. White
Checked	
Approved	

Title

SITE UTILITIES PLAN

Sheet

C-142

NOT FOR CONSTRUCTION