

MATCH LINE - SEE SHEET C-9 FOR CONTINUATION

PROVIDE "ENKAMAT" TYPE 7010 EROSION CONTROL FABRIC IN DITCH LINES. FABRIC SHALL BE INSTALLED IN ACCORDANCE WITH VDOT STD EC-3, AND TO A FLOW DEPTH OF 12" MINIMUM.

BENCHMARK:
CHISELED SQUARE ON SOUTHEAST CORNER OF EXISTING CURB INLET "L", LOCATED IN THE NORTHWEST CORNER OF BRUGH TAVERN PARKING LOT. ELEVATION=1031.87



GEOHERMAL WELL NOTE
THE TWENTY-ONE PROPOSED GEOHERMAL WELLS AROUND THE PERIMETER OF THE PROPOSED BUILDING ARE SHOWN ON THIS SHEET FOR REFERENCE ONLY. THE CONTRACTOR IS DIRECTED TO THE PLUMBING AND MECHANICAL PLANS AND SPECIFICATIONS FOR DETAILS CONCERNING THE INSTALLATION AND CONNECTIONS TO BE PERFORMED UNDER THIS CONTRACT.

EXIST. PUMP STATION CONTROL PANEL ON 4"x4" POSTS

EXISTING SEWERAGE HOLDING TANK
MANWAY ELEVATION = 1021.48
INV. IN (4" GRAVITY)=1018.31

SCHEDULE OF SANITARY SEWER ITEMS

1. PROVIDE 4" SS @ 2.08 % MIN.
2. PROVIDE 4" SS @ 2.08 % MIN.
3. PROVIDE SSCO, INV.=1031.04 AND 4"x6" ENLARGER
4. PROVIDE 15'-6" SS @ 1.04 %
5. EXISTING SSCO, INV.=1030.88
6. EXISTING 65'-6" SS @ 1.04 %
7. EXISTING SSCO, INV.=1030.20
8. EXISTING 72'-6" SS @ 1.04 %
9. EXISTING SSCO, INV.=1029.45
10. EXISTING 100'-6" SS @ 7.68 %
11. EXISTING SSCO, INV.=1021.80
12. INTERCONNECTION OF 6" LATERAL WITH 4" LATERAL FROM TAUBMAN WELCOME CENTER AT ± 7.68%

SCHEDULE OF EXISTING STORM DRAIN STRUCTURES

- | | |
|--|--|
| A EXIST. GRATE INLET (DI-7, TYPE III GRATE)
TOP=1042.57
INV.=1039.17 | H EXIST. GRATE INLET (DI-7, TYPE III GRATE)
TOP=1034.32
INV.=1032.42 |
| B EXIST. GRATE INLET (DI-7, TYPE III GRATE)
TOP=1038.95
INV. IN=1035.85
INV. OUT=1035.75 | J EXIST. GRATE INLET (DI-7, TYPE III GRATE)
TOP=1027.75
RAISE TO TOP=1030.40
INV. IN=1019.95
INV. IN=1020.05
INV. OUT=1019.85 |
| C EXIST. SDMH
TOP=1039.77
INV. IN=1034.17
INV. OUT=1034.02 | K EXIST. GRATE INLET (DI-7, TYPE III GRATE)
TOP=1027.91
INV. IN=1019.91
INV. OUT=1019.81
CONTRACTOR SHALL REMOVE INLET TOP, PROVIDE RISER & GRADE RINGS AND FRAME AND COVER REQUIRED TO CONVERT TO A MANHOLE WITH RIM=1032.00 |
| D EXIST. SDMH
TOP=1034.51
INV. IN=1029.11
INV. OUT=1029.01 | L EXIST. CURB INLET
TOP=1031.90
INV. IN=1019.80
INV. OUT=1019.50 |
| E EXIST. GRATE INLET (DI-7, TYPE III GRATE)
TOP=1033.90
INV. OUT=1030.00 | M EXIST. CURB INLET
TOP=1027.08
INV. IN=1017.83
INV. OUT=1017.68 |
| F EXIST. CURB INLET
TOP=1026.35
INV. OUT=1022.57 | |
| G EXIST. CURB INLET
TOP=1027.50
INV. IN=1022.10
INV. OUT=1022.00
CONTRACTOR SHALL ROTATE TOP TO ALIGN WITH NEW CURBING, AS SHOWN. | |

SCHEDULE OF NEW STORM DRAIN ITEMS

NEW STORM DRAIN CULVERTS SHALL BE IN ACCORDANCE WITH VDOT STD. PC-1 (16 GA CORRUGATED STEEL), AND SHALL RECEIVE VDOT STD ES-2 FLARED END SECTIONS ON INLET AND OUTLET ENDS. NEW STORM DRAIN STRUCTURES SHALL BE PRE-CAST CONCRETE. MATERIALS, FABRICATION, AND INSTALLATION SHALL BE TO VDOT STANDARDS AND SPECIFICATIONS. NEW STRUCTURES ON EXISTING HOPE PIPE MAY BE CONSTRUCTED USING EITHER VDOT STD. B-1 MONOLITHIC BASE UNITS OR VDOT STD. B-2 "DOGHOUSE" BASE UNITS. AT THE CONTRACTOR'S OPTION, THE JOINT AT HOPE PIPE/CONCRETE STRUCTURE SHALL BE MADE WATERTIGHT USING NON-SHRINK GROUT.

1. PROVIDE 17' OF NEW 12" C.M. PIPE @ 1.00 %
INV. IN=1036.17
INV. OUT=1036.00
2. PROVIDE NEW VDOT STD. DI-7 W/TYPE III GRATE
TOP=1029.25
INV. IN=1019.70 (MATCH EXIST. PIPE)
3. PROVIDE 84' OF NEW 15" C.M. PIPE @ 5.65 %
INV. IN=1015.75
INV. OUT=1011.00

ROOF DRAIN COLLECTOR SCHEDULE

ALL NEW ROOF DRAIN COLLECTOR PIPING, FITTINGS, BENDS, CLEANOUTS, ETC. SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE, BEDED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIALS (PIPE, REDUCERS, WYES, TEES, BENDS, ETC.) WHETHER INDICATED SPECIFICALLY HEREON OR NOT, THAT ARE REQUIRED TO INSTALL THE COLLECTOR PIPING AS SHOWN.

SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF DOWNSPOUTS. FOR DOWNSPOUT/COLLECTOR CONNECTION, SEE DETAIL (A).

1. PROVIDE 4" PVC @ 2.08 % MIN.
2. PROVIDE 6" PVC @ 1.04 % MIN.
3. PROVIDE 8" PVC @ 1.00 % MIN.
4. PROVIDE CLEANOUT, INV.=1038.40
5. PROVIDE CLEANOUT, INV.=1037.78
6. PROVIDE CLEANOUT, INV.=1040.00
7. PROVIDE CLEANOUT, INV.=1036.40
8. PROVIDE CLEANOUT, INV.=1032.80
9. PROVIDE CLEANOUT, INV.=1029.10
10. PROVIDE CLEANOUT, INV.=1039.00

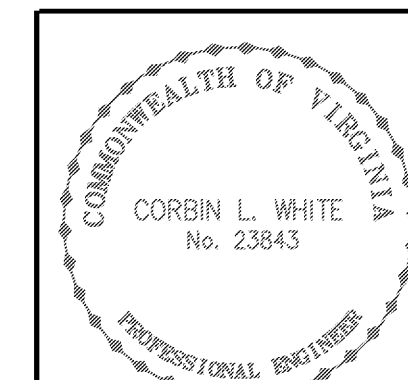
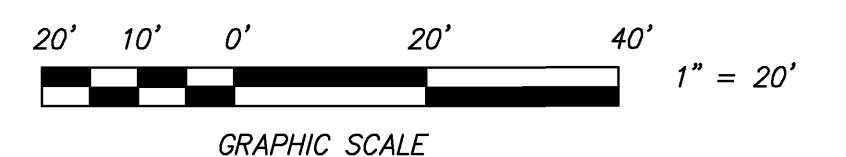
CONDUIT NOTES

THE CONDUITS SHOWN ARE FOR FUTURE LIGHTING PURPOSES. SHALL BE 2" PVC RATED FOR USE AS UNDERGROUND ELECTRICAL CONDUIT. THE CONTRACTOR SHALL PROVIDE 1/2" MARINE GRADE POLY PULL-ROPE THROUGH EACH CONDUIT. ENDS OF CONDUIT SHALL BE CAPPED FOR FUTURE USE. THE CONTRACTOR SHALL RECORD AS-BUILT INFORMATION SUFFICIENT TO LOCATE THESE CONDUIT AFTER BACK-FILLING TRENCHES.

COMPACTION NOTES

SUBGRADE UNDER NEW BUILDINGS AND PAVEMENT SHALL BE COMPACTED TO A MINIMUM OF 95 % OF STANDARD PROCTOR (ASTM D698). GRASS AND LANDSCAPE AREAS SHALL BE COMPACTED TO A MINIMUM OF 80 % OF STANDARD PROCTOR (ASTM D698).

* STREET NAMES ADDED TO MAP
REVISED NOVEMBER 08, 1999 PER COUNTY OF ROANOKE REVIEW - CLW



Designed: C.L. White
Drawn: C.L. White
Checked: C.L. White
Date: October 12, 1999
Scale: 1" = 20'
Tax Parcel: 80.00-05-24
Field Book: WES-1
W.O. No.: 99-0040

GRADING, STORM DRAIN, AND SITE UTILITIES PLAN
FOR
BLUE RIDGE PARKWAY INTERPRETIVE CENTER
FOR
VIRGINIA'S EXPLORE PARK
SITUATE OFF OF RUTROUGH ROAD AND THE BLUE RIDGE PARKWAY
VINTON MAGISTERIAL DISTRICT
COUNTY OF ROANOKE, VIRGINIA

CWA
CALDWELL WHITE ASSOCIATES
ENGINEERS / SURVEYORS / PLANNERS
1054 OLD COUNTRY CLUB ROAD
P.O. BOX 6340
ROANOKE, VIRGINIA 24017
(840) 342-7094
FAX: (840) 981-0889