MATCH LINE – SEE SHEET C-9 FOR CONTINUATION

GEOTHERMAL WELL NOTE

THE TWENTY-ONE PROPOSED GEOTHERMAL 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.

BENCHMARK:

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

△ 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
B EXIST. GRATE INLET (DI-7, TYPE III GRATE) TOP=1038.95 INV. IN=1035.85 INV. OUT=1035.75
C EXIST. SDMH TOP=1039.77 INV.IN=1034.17 INV.OUT=1034.02
D EXIST. SDMH TOP=1034.51 INV.IN=1029.11 INV.OUT=1029.01
E EXIST GRATE INLET (DI-7, TYPE III GRATE) TOP=1033.90 INV.OUT=1030.00
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.*
H EXIST. GRATE INLET (DI-7, TYPE III GRATE) TOP=1034.32 INV.=1032.42
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
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*
L EXIST. CURB INLET TOP=1031.90 INV. IN=1019.60 INV. OUT=1019.50
M EXIST. CURB INLET TOP=1027.08 INV.IN=1017.83 INV. OUT=1017.68

◯ ROOF DRAIN COLLECTOR ◯ SCHEDULE

ALL NEW ROOF DRAIN COLLECTOR PIPING, FITTINGS, BENDS, CLEANOUTS, ETC. SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE, BEDDED 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 (H/11)

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

▲ 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 HDPE 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 HDPE 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. =1019.70 (MATCH EXIST. PIPE)
3 PROVIDE 84' OF NEW 15" C.M. PIPE @ 5.65 %
INV. IN=1015.75
INV. OUT=1011.00

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).

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.

FINISH TOP OF CURB ELEVATION ALONG THE NORTHERN EDGE OF THIS PARKING LOT IS 8" ABOVE EXISTING TOP OF PAVEMENT (2" OVERLAY + 6" HIGH CURB)

NEW 2" CONDUIT. SEE "CONDUIT NOTES", THIS SHEET.

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

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

UNDERGROUND PROPANE TANK

GATE POST

GRAVEL

SHED

TAUBMAN VISITOR CENTER 2 STY. FRAME BUILDING

DECK

PORCH

STEPS

SIDEWALK

BIT. SIDEWALK

PROVIDE 6' LANDING AT ELEV.=41.00

UPPER FINISH FLOOR=1044.60
LOWER FINISH FLOOR=1033.50

NEW 4"SS

NEW UT

SEE "GEOTHERMAL WELL" NOTE", THIS SHEET. (TYP. OF 21)

RELOCATE EXIST. UNDERGROUND TELEPHONE AS SHOWN

SWALE

PARKWAY

RIVER BITUMINOUS PAVEMENT

ROANOKE

CHESTNUT RIDGE RD

TRANSFORMER

EXIST. FIRE HYDRANT. BASE AND VALVE BOX HAS BEEN RAISED TO FINISH GRADE UNDER SEPARATE CONTRACT.

HANDICAP RAMP

CONC. CURB

BIT. SIDEWALK

BRUGH TAVERN
F.F. ELEV.=1039.98

PORCH

RAMP UP

BITUMINOUS PAVEMENT

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

* STREET NAMES ADDED TO MAP

1 REVISED NOVEMBER 08, 1999 PER COUNTY OF ROANOKE REVIEW – CLW

COMMONWEALTH OF VIRGINIA
CORBIN L. WHITE
No. 23843
PROFESSIONAL ENGINEER

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

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

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