

MEDIAN OF SOUTHWEST INDUSTRIAL PARK
PHASE II, IN P.B. 12, PG. 161

ROOF DRAIN COLLECTOR NOTE

PROVIDE 160 L.F. OF NEW 6" SCHEDULE 40 PVC PIPE @ 1.50% TO SERVE AS A DOWNSPOUT COLLECTOR FOR BACK HALF OF ROOF RUNOFF.
INV. IN=1172.5 (AT NW CORNER OF BLDG)
INV. OUT=1170.1 (AT 36" SWM PIPE)

PROVIDE 51 L.F. OF NEW 6" SCHEDULE 40 PVC PIPE AT 5.50% TO SERVE AS A DOWNSPOUT COLLECTOR FOR RUNOFF FROM A PORTION OF THE FRONT OF THE BUILDING
INV. IN= 1172.5 (AT SE CNR OF BLDG)
INV. OUT=1169.70 (AT 36" SWM PIPE)

COMPACTION NOTES

SUBGRADE UNDER NEW BUILDINGS, CONCRETE, 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).

NEW STORM DRAIN SCHEDULE

1. PROVIDE NEW DI-22X22 W/ 24X24 GRATE AS MANUFACTURED BY HANSON PIPE PRODUCTS OF ROANOKE, VA.
RIM=1174.0
INV. OUT=1171.5
2. PROVIDE 58 L.F.-15" ALUMINIZED TYPE II C.M. PIPE @ 0.5%
INV. IN=1171.5
INV. OUT=1170.7
3. PROVIDE 120 L.F.-48" ALUMINIZED TYPE II C.M. PIPE @ 0.5%
INV. IN=1168.7
INV. OUT=1168.1
4. PROVIDE 77 L.F.-36" ALUMINIZED TYPE II C.M. PIPE @ 0.5%
INV. IN=1168.5
INV. OUT=1168.1
5. PROVIDE DI-36, L=6', H=3.3'
TOP=1171.9
INV.=1168.25
6. PROVIDE 29 L.F.-15" C.M. PIPE @ 0.5%
INV. IN=1168.25
INV. OUT=1168.1
7. PROVIDE 5'x4' CONC MONOBOX W/2'x2' MIN. LOCKABLE HATCH RIM 1174.0
INV. IN (48", 36", 15")=1168.1
INV. OUT=1168.0
8. PROVIDE 10.5 L.F.-15" CONC. PIPE @ 6.87%
INV. IN=1168.0
INV. OUT=1167.3
9. PROVIDE VDOT STD. ES-1 FLARED END SECTION AT OUTLET END

SANITARY SEWER SCHEDULE

1. PROVIDE STANDARD SSCQ, INV=66.5
2. PROVIDE SAMPLING MANHOLE IN ACCORDANCE WITH RKE CO. UTIL. DEPT. STD. DD-06.
3. PROVIDE 86 L.F.-6" SS @ 5.0%
4. PROVIDE STANDARD SSCQ, INV=70.8
5. PROVIDE 24 L.F.-6" SS @ 7.0%
6. PROVIDE STANDARD SSCQ, INV=72.5

GENERAL SANITARY SEWER NOTES

ALL NEW SANITARY SEWER PIPE, CLEANOUTS, FITTINGS, ETC. SHALL BE SDR-35 UNPLASTICIZED POLYVINYL CHLORIDE. MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE ROANOKE COUNTY WATER AND SEWER REGULATIONS, 3RD EDITION.

THE CONNECTION OF THE NEW SANITARY SEWER LATERAL TO THE EXISTING LATERAL IS TO BE PERFORMED BY THE PLUMBING CONTRACTOR. LOCATION INDICATED ON PLANS IS APPROXIMATE. PLUMBING CONTRACTOR WILL FIELD VERIFY LOCATION AND DEPTH OF EXISTING LATERAL AND NOTIFY THE ENGINEER IF FIELD CONDITIONS DIFFER FROM THOSE SHOWN.

THE SLOPE OF THE NEW 6" SANITARY SEWER PIPE SHALL BE UNIFORM BETWEEN MANHOLES/CLEAN-OUTS. SEE SCHEDULE BELOW FOR SLOPES OF INDIVIDUAL PIPE RUNS.

ALL NEW CONNECTIONS TO SANITARY SEWER SHALL BE MADE BY THE ROANOKE COUNTY UTILITY DEPT.

GENERAL WATER NOTES

ALL EXTERIOR WATERLINE MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WATER AND SEWER REGULATIONS OF THE COUNTY OF ROANOKE UTILITY DEPARTMENT, 3RD EDITION.

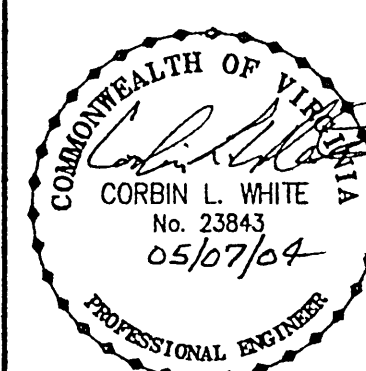
DOMESTIC WATER SERVICE FOR THE PROPOSED FACILITY IS TO CONNECT TO THE EXISTING 8" PUBLIC WATERLINE ON THE WEST SIDE OF COMMONWEALTH DRIVE.

THE CONNECTION TO THE MAIN, METER BOX, SETTER, AND 3/4" METER IS TO BE FURNISHED AND INSTALLED BY THE COUNTY OF ROANOKE UTILITY DEPARTMENT.

THE PRESSURE AT THE POINT OF CONNECTION IS APPROXIMATELY 94 PSI. AS SUCH, IT IS THE PLUMBING CONTRACTORS RESPONSIBILITY TO:

- VERIFY PRESSURE WITH THE ROANOKE COUNTY UTILITY DEPARTMENT PRIOR TO COMMENCING WORK.
- PROVIDE AND INSTALL A PRESSURE-REDUCING VALVE AND VALVE BOX (ON THE PRIVATE SIDE OF THE WATER METER) TO REDUCE THE DOMESTIC PRESSURE TO 80 PSI OR LESS.
- PROVIDE AND INSTALL ALL PIPE, FITTINGS, BENDS, ETC. TO BRING WATER SERVICE FROM THE METER TO THE BUILDING.
- COORDINATE EXACT LOCATION OF WATERLINE ENTRY INTO THE BUILDING WITH THE PLUMBING SHEETS OF THE ARCHITECTURAL PLANS

ALL TAPS TO EXISTING WATER AND SEWER LINES TO BE PERFORMED BY THE ROANOKE COUNTY UTILITY DEPARTMENT.



GRADING, STORM DRAINAGE AND SITE UTILITIES PLAN
FOR

ANDRE PERDUE

SHOWING A NEW 7250 SQ. FT. BUILDING AND ASSOCIATED IMPROVEMENTS
SITUATE LOT 1 SOUTHWEST INDUSTRIAL PARK, PHASE II
(PB 11, PG 57)

COMMONWEALTH DRIVE (VA. SEC. RTE. 1723)
CAVE SPRING MAGISTERIAL DISTRICT
COUNTY OF ROANOKE, VA



CALDWELL WHITE ASSOCIATES

ENGINEERS / SURVEYORS / PLANNERS

4203 MELROSE AVENUE

P.O. BOX 0260

ROANOKE, VIRGINIA 24017-0260

(540) 368-3400

FAX: (540) 368-8702

Designed: JMK/CLW
Drawn: JMK
Checked: CLW
Date: FEB. 27, 2004
Rev: MAY 7, 2004
Scale: 1"=10'
Tax Parcel: 087.14-03-01.05
W.O. No.: 03-0125
F.B. No.: HES-22

ADDITIONAL SEWER NOTES

*THE LOCATION OF THE EXISTING CLEAN-OUT SHOWN ON THE PLANS IS APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF THE EXISTING CLEAN-OUT AND NOTIFY THE ENGINEER IF LOCATION OR ELEVATION DIFFERS FROM THAT SHOWN ON THE PLANS.

**CONTRACTOR SHALL VERIFY VERTICAL CLEARANCE BETWEEN LATERAL AND 36" PIPE. IF LESS THAN 18" OF CLEARANCE EXISTS THE CONTRACTOR SHALL INSTALL CONCRETE PIERS IN ACCORDANCE WITH ROANOKE COUNTY UTILITY DEPARTMENT STANDARD DD-18.

