

BENCHMARK:
 (CHISELED) "E" SET ON FRONT LEFT
 CORNER OF EXIST. CURB INLET ON
 EASTERN SIDE OF TOM ANDREWS ROAD,
 AT NORTHWEST CORNER OF "J.H. HEAFNER" SITE.
 ELEVATION = 1103.72

STORM DRAIN SCHEDULE

- | | | | | | |
|---|--|----|---|----|--|
| 1 | PROVIDE VDOT STD. DI-3B, L=14' TOP=1108.02 INV.=1103.35 | 7 | PROVIDE VDOT STD. 4' DIA. STORM MANHOLE RIM=1111.00 INV.=1105.82 INV. OUT=1105.72 | 15 | PROVIDE 30'-15" CONC. PIPE @ 0.50 % INV. IN=1107.36 INV. OUT=1105.82 |
| 2 | PROVIDE VDOT STD. 4' DIA. STORM MANHOLE TOP=1113.50 INV. IN=1108.65 INV. OUT=1106.85 | 8 | PROVIDE 42'-15" CONC. PIPE @ 6.04 % INV. IN=1103.35 INV. OUT=1100.81 | 16 | PROVIDE 34'-12" ADS "N-12" HOPE PIPE @ 0.80 % INV. IN=1105.72 INV. OUT=1103.00 |
| 3 | PROVIDE VDOT STD. DI-3C, L=12' TOP=1110.10 INV. IN=1105.10 INV. OUT=1104.45 | 9 | PROVIDE 24'-12" ADS "N-12" HOPE PIPE @ 1.00 % INV. IN=1111.00 INV. OUT=1108.60 | 17 | PROVIDE VDOT STD. 4' DIA. STORM DRAIN MANHOLE RISER. SEE DETAILS, SHEET C5. |
| 4 | PROVIDE VDOT STD. DI-3C, L=16' TOP=1108.70 INV. IN=1102.60 INV. OUT=1102.50 | 10 | PROVIDE 13'-15" CONC. PIPE @ 1.20 % INV. IN=1106.85 INV. OUT=1105.20 | 18 | PROVIDE 25'-24" CONC. PIPE @ 0.89 % INV. IN=1096.90 INV. OUT=1096.68 |
| 5 | PROVIDE VDOT STD. DI-3C, L=16' TOP=1110.20 INV. IN=1099.79 INV. OUT=1099.69 | 11 | PROVIDE 24'-18" CONC. PIPE @ 0.75 % INV. IN=1104.45 INV. OUT=1102.60 | 19 | PROVIDE PRE-CAST CONC. 24" x 22.5" BEND. INV.=1096.68 |
| 6 | PROVIDE VDOT STD. DI-3C, L=12' TOP=1110.20 INV. IN=1097.79 INV. OUT=1097.69 | 12 | PROVIDE 36'-24" CONC. PIPE @ 0.75 % INV. IN=1102.50 INV. OUT=1099.79 | 20 | PROVIDE 23'-24" CONC. PIPE @ 0.89 % INV. IN=1096.68 INV. OUT=1094.63 |
| | PROVIDE VDOT STD. 15'-1 INLET SHAPING | 13 | PROVIDE 25'-24" ADS "N-12" HOPE PIPE @ 0.75 % INV. IN=1099.69 INV. OUT=1097.79 | 21 | PROVIDE VDOT STD. STORM MANHOLE RIM=1100.00 INV.=1094.63 |
| | | 14 | PROVIDE 26'-24" ADS "N-12" HOPE PIPE @ 0.75 % INV. IN=1097.69 INV. OUT=1097.50 | 22 | PROVIDE 60'-24" CONC. PIPE @ 15.35 % INV. IN=1094.63 INV. OUT=1085.42 |

TOP ELEVATIONS FOR STRUCTURES ARE TO THE CENTER OF THE STEEL COVER. CONTRACTOR SHALL BE REQUIRED TO PLACE NEW INLET TOPS TRUE TO GRADE AND ELEVATION AS SHOWN HEREON.
 STORM DRAIN PIPE LENGTHS SHOWN ARE FROM CENTER OF COVER TO CENTER OF COVER. ADJUSTMENTS TO PIPE LENGTHS WILL BE REQUIRED DUE TO ROTATION OF MANHOLE BARREL IN ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS.

CONCRETE PIPE SHALL BE CLASS III REINFORCED

HDPE PIPE SHALL BE TYPE "N-12" AS MANUFACTURED BY ADS, INC. OF COLUMBUS, OHIO, PHONE (800)733-7473, OR ENGINEER APPROVED EQUAL. HDPE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH BEDDING DETAIL J-5

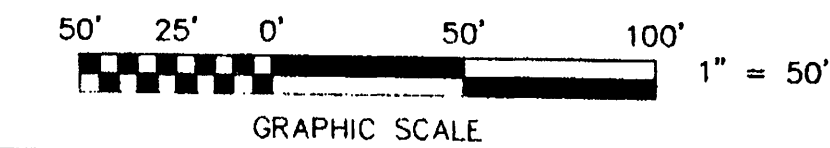
SANITARY SEWER SCHEDULE

- EXISTING 6" S.S., 6" S.S.C., & 5'-6" S.S. STUB INV. STUB = 1106.48
- REMOVE CAP, PROVIDE 67'-6" S.S. @ 2.72 %
- PROVIDE 6" S.S.C.O. INV. = 1108.30
- PROVIDE TRAFFIC-BEARING FRAME AND COVER, TOP=1112.50

NEW SANITARY SEWER PIPE AND FITTINGS SHALL BE SDR-35 POLYVINYL CHLORIDE, OR CITY OF ROANOKE APPROVED EQUAL.

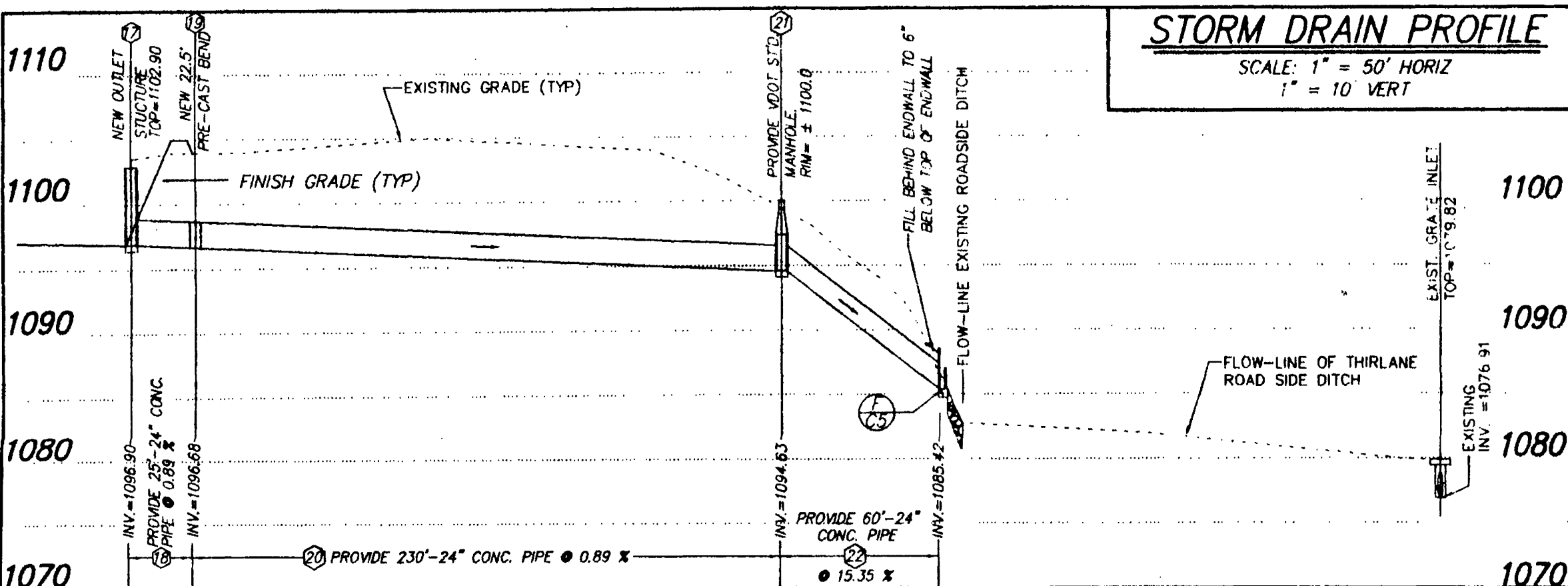
WATER NOTES

THE FIRE MAIN FOR THIS SITE HAS ALREADY BEEN CONTRACTED TO BE CONSTRUCTED TO THE WESTERN RIGHT OF WAY OF TOM ANDREWS ROAD. WATERLINE CONSTRUCTION FOR THIS PROJECT WILL CONSIST OF THE FOLLOWING:
 REMOVE CAP FROM 8" FIRE MAIN (BY CITY OF ROANOKE PERSONNEL)
 PROVIDE 8"x90" BEND (BY CITY OF ROANOKE PERSONNEL)
 TAP 8" FIRE MAIN WITH DOMESTIC LINE AND PROVIDE 2" DOMESTIC METER (BY CITY OF ROANOKE PERSONNEL)
 CONSTRUCT DETECTOR CHECK VAULT WITHIN EXISTING WATERLINE EASEMENT (BY CITY OF ROANOKE PERSONNEL)
 STUB FIRE LINE THROUGH DETECTOR CHECK VAULT (BY CITY OF ROANOKE PERSONNEL)
 PROVIDE 8"x90" BEND (BY CONTRACTOR)
 PROVIDE 63'-8" FIRE MAIN (BY CONTRACTOR)
 PROVIDE 8"x11.25" BEND (BY CONTRACTOR)
 PROVIDE 80'-8" FIRE MAIN (BY CONTRACTOR)
 PROVIDE 8"x11.25" BEND AT 5' OUTSIDE BUILDING (BY CONTRACTOR)
 PROVIDE 2-1/2" DOMESTIC SERVICE AND CAP AT 5' OUTSIDE BUILDING (BY CONTRACTOR)



STORM DRAIN PROFILE

SCALE: 1" = 50' HORIZ
 1" = 10' VERT



FIELD EVIDENCE SUGGESTS THE EXISTENCE OF AN EXISTING UNDERGROUND TELEPHONE CABLE IN THE PROXIMITY OF THE ROADSIDE DITCH ON THE EAST SIDE OF THIRLANE ROAD.
 THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THIS CABLE AND COORDINATE RELOCATION (IF REQUIRED) WITH BELL ATLANTIC TELEPHONE COMPANY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT BUILD-UP IN THE EXISTING DITCH AS REQUIRED UNTIL A SUITABLE STAND OF VEGETATION IS ACHIEVED.

REVISED JULY 03, 1996 PER CITY OF ROANOKE REVIEW - CLW
 REVISED JUNE 03, 1996 TO REFLECT NEW FINISH FLOOR ELEVATION - CLW

	GRADING AND SITE UTILITIES PLAN FOR AIRBORNE EXPRESS		
	SHOWING A NEW 109,200 SQUARE FOOT REGIONAL HUB FACILITY SITUATE TOM ANDREWS ROAD CITY OF ROANOKE, VIRGINIA		
	SCALE: 1" = 50' DATE: JUNE 01, 1996	T. P. PARKER & SON 816 Boulevard Post Office Box 39 Salem, Virginia 24153 Telephone: 540-387-1153 FAX: 540-389-5787	
	DESIGNED BY: C.L. White DRAWN BY: C.L. White CHECKED BY: F.B. Caldwell III W.O. #: 96-0314 N.B. ANDREWS PROP. TAX NO.: 6530101		