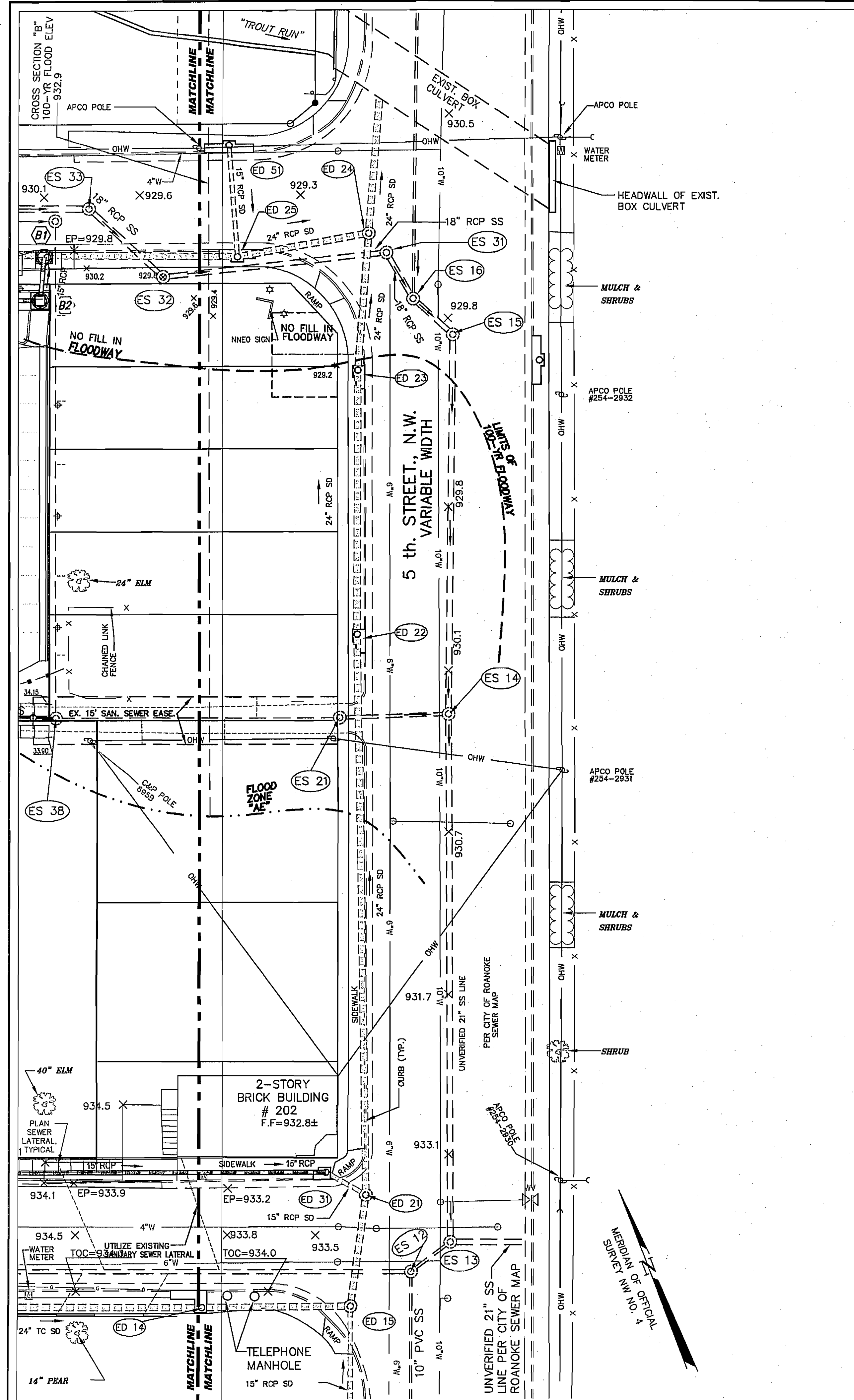




EXISTING STORM SEWER SUMMARY					
STRUCTURE ID	TYPE	TOP ELEV	INVERT ELEV	PIPE SIZE, TYPE, INV TYPE	
ED 12	DRAINAGE MANHOLE	938.0	936.4	8" TC IN	10" TC IN (ED 11)
			935.9	24" TC IN (ED 11)	24" TC IN (ED 11)
			934.6	24" TC IN (ED 11)	24" TC IN (ED 11)
			933.7	24" TC IN (ED 11)	24" TC IN (ED 11)
			933.6	24" TC IN (ED 11)	24" TC IN (ED 11)
ED 13	DRAINAGE MANHOLE	935.1	931.4	6" PVC IN	24" TC IN (ED 12)
			931.2	24" TC IN (ED 12)	24" TC IN (ED 12)
			931.1	24" TC IN (ED 12)	24" TC IN (ED 12)
			931.1	24" TC IN (ED 12)	24" TC IN (ED 12)
ED 14	CURB INLET	934.1	930.3	24" TC IN (ED 13)	24" TC IN (ED 13)
			930.3	24" TC IN (ED 13)	24" TC IN (ED 13)
ED 15	DRAINAGE MANHOLE	934.4	930.4	24" TC IN (ED 14)	24" TC IN (ED 14)
			929.9	24" TC IN (ED 14)	24" TC IN (ED 14)
			929.9	24" TC IN (ED 14)	24" TC IN (ED 14)
			929.9	24" TC IN (ED 14)	24" TC IN (ED 14)
ED 21	DRAINAGE MANHOLE	932.9	929.0	24" RCP IN (ED 15)	24" RCP IN (ED 15)
			928.6	24" RCP IN (ED 15)	24" RCP IN (ED 15)
			926.5	24" RCP IN (ED 15)	24" RCP IN (ED 15)
			926.4	24" RCP IN (ED 15)	24" RCP IN (ED 15)
ED 22	CURB INLET	930.0	925.4	24" RCP IN (ED 21)	24" RCP IN (ED 21)
			925.4	24" RCP IN (ED 21)	24" RCP IN (ED 21)
			925.3	24" RCP IN (ED 21)	24" RCP IN (ED 21)
ED 23	CURB INLET	929.5	925.0	24" RCP IN (ED 22)	24" RCP IN (ED 22)
			925.0	24" RCP IN (ED 22)	24" RCP IN (ED 22)
ED 24	DRAINAGE MANHOLE	929.4	925.3	24" RCP IN (ED 23)	24" RCP IN (ED 23)
			924.7	24" RCP IN (ED 23)	24" RCP IN (ED 23)
			924.7	24" RCP IN (ED 23)	24" RCP IN (ED 23)
			924.7	24" RCP IN (ED 23)	24" RCP IN (ED 23)
ED 25	CURB INLET	929.3	924.9	24" RCP IN (ED 24)	24" RCP IN (ED 24)
			924.9	24" RCP IN (ED 24)	24" RCP IN (ED 24)
			924.9	24" RCP IN (ED 24)	24" RCP IN (ED 24)
			924.9	24" RCP IN (ED 24)	24" RCP IN (ED 24)
ED 26	DRAINAGE MANHOLE	933.2	928.8	24" TC IN/SILTED (ED 27)	24" TC IN/SILTED (ED 27)
			928.6	24" TC IN/SILTED (ED 27)	24" TC IN/SILTED (ED 27)
ED 27	DRAINAGE MANHOLE	932.9	929.1	18" TC IN/SILTED (ED 28)	18" TC IN/SILTED (ED 28)
			929.1	18" TC IN/SILTED (ED 28)	18" TC IN/SILTED (ED 28)
ED 28	DRAINAGE MANHOLE	932.6	928.5	18" TC IN (ED 27)	18" TC IN (ED 27)
ED 31	CURB INLET	933.2	928.5	15" RCP OUT (ED 21)	15" RCP OUT (ED 21)
			928.5	15" RCP OUT (ED 21)	15" RCP OUT (ED 21)
ED 51	CURB INLET	929.4	926.1	15" RCP OUT (ED 25)	15" RCP OUT (ED 25)
			926.1	15" RCP OUT (ED 25)	15" RCP OUT (ED 25)

PROPOSED DRAINAGE SUMMARY CENTRE AVENUE

- EXISTING CURB INLET LISTED ABOVE (MINIMUM DEPTH)
PROPOSED 15" INV IN = 928.70 (OR AT STRUCTURE FLOOR)
STRUCTURE FLOOR BOTTOM = 928.5±
EXISTING 15" RCP INV OUT = 928.5
- 123.0' - 15" RCP PIPE @ 0.8% SLOPE
(SEE PIPE TYPE NOTES ON ADJACENT SHEET)
15" INV IN = 929.68
15" INV OUT = 928.70
- PROPOSED VDOT DI-3B, L=10' W/ 48" DIAMETER BASE
TOP = 934.93
THROAT = 934.43
15" INV IN = 929.78
15" INV OUT = 929.68
- 69.75' - 15" RCP PIPE @ 0.83% SLOPE
15" INV IN = 930.36
15" INV OUT = 929.78
- PROPOSED VDOT DI-3B, L=8' W/ 48" DIAMETER BASE
TOP = 935.25
THROAT = 934.75
15" INV OUT = 930.36

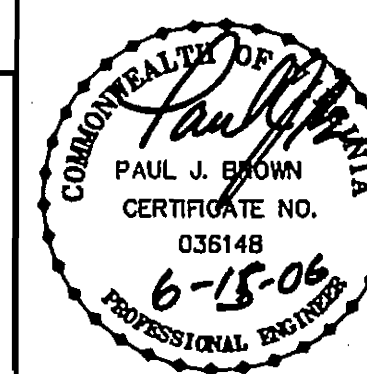
FOR DRAINAGE LINE "A6" TO "A5" INSTALL 12" FLEXIBLE DRAINAGE PIPE TO CONNECT ROOF DRAINS AND STRUCTURE "A6" TO STRUCTURE "A5". ESTIMATED AS 85 LF OF 12" FLEXIBLE PIPE AT 1.0% SLOPE.

PROPOSED DRAINAGE SUMMARY LOUDON AVENUE

THESE STRUCTURES SHALL BE INSTALLED FIRST

- PROPOSED VDOT DI-3B, L=4' MONOLITHIC BOX
PLACE BOX IN LINE WITH EXISTING DRAINAGE LINE
TOP = 930.2; THROAT = 929.7
EXIST. 24" RCP INV. = 925.5 (ESTIMATED)
NEW 15" INV IN = 929.9
- 13.6' - 15" RCP PIPE @ 1.5% SLOPE
15" INV IN = 926.1
15" INV OUT = 925.9
- PROPOSED VDOT DI-7, TYPE III GRATE W/ 48" DIA. BASE
SEE DETAIL "H/C9" FOR CONCRETE FLUME
TOP = 929.70
15" INV IN (A1) = 926.2
15" INV OUT = 926.1
- 125.9' - 15" HDPE PIPE @ 0.8% SLOPE
15" INV IN = 927.2
15" INV OUT = 926.4
- PROPOSED VDOT DI-7, TYPE III GRATE W/ 48" DIA. BASE SEE DETAIL
"H/C9" FOR CONCRETE FLUME
TOP = 931.10
15" INV IN (A2) = 927.3
15" INV IN (A3) = 927.3
15" INV OUT = 927.2
- 36.0' - 15" HDPE PIPE @ 1.4% SLOPE
15" INV IN = 927.8
15" INV OUT = 927.3
- PROPOSED ADS PLASTIC YARD INLET OR LANE YARD INLET
USE BEEHIVE GRATE PER ARCHITECTURAL DETAIL
TOP = 931.5
15" INV OUT = 927.8
- 44.5' - 15" HDPE PIPE @ 4.94% SLOPE
15" INV IN = 929.5
15" INV OUT = 927.3
- PROPOSED VDOT DI-1 W/ TRAFFIC GRATE
TOP = 934.0 (STR. TO BE CONSTRUCTED ON GRADE SLOPE)
15" INV IN (A5) = 929.6
15" INV IN (A4) = 929.6
15" INV OUT = 929.5
- 35.2' - 15" HDPE PIPE @ 1.42% SLOPE
15" INV IN = 930.1
15" INV OUT = 929.6
- PROPOSED HANSON 22"x22" GRATE INLET
TOP = 932.1
15" INV OUT = 930.1
- 50.8' - 15" HDPE PIPE @ 2.76% SLOPE
15" INV IN = 931.0
15" INV OUT = 929.6
- PROPOSED ADS PLASTIC YARD INLET OR LANE YARD INLET
USE BEEHIVE GRATE PER ARCHITECTURAL DETAIL
TOP = 933.9
12" INV IN = 931.2
15" INV OUT = 931.0
- PROPOSED ADS PLASTIC YARD INLET OR LANE PRODUCTS PLASTIC
RISER. USE BEEHIVE GRATE TOP PER ARCHITECTURAL PLAN DETAIL.
TOP = 933.85
- SEVERAL ROOF DRAINS ARE BEING COLLECTED AND DISCHARGED TO CURB. SEE ARCHITECTURAL PLAN FOR SPECIFICS.

DESIGNED BY: P.J. BROWN
DRAWN BY: P.J.B.
CHECKED BY: P.J.B.
W.O. #: 06-0021-02
N.B. #: JR-217
TAX NO.: AS SHOWN



parker
DESIGN GROUP
ENGINEERS * SURVEYORS * PLANNERS * LANDSCAPE ARCHITECTS

816 Boulevard
Salem, Virginia 24153
Phone: 540-387-1153
Fax: 540-389-5767
www.parkerdg.com

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Landscape Architecture
Architecture
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120 W. Campbell Ave. SW
Roanoke, VA 24011

tel: 540-342-5263
fax: 540-345-5625

www.hillstudio.com

PARK STREET SQUARE
DRAINAGE & SPOT ELEVATION - 5TH STREET
ROANOKE, VIRGINIA

Date: JUNE 13, 2006
Scale: 1" = 20'
Revisions:

Drawn By: PJB/TPPS
Review By: PJB
Project No. 06-0021-02
HILL STUDIO NO. 0539

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