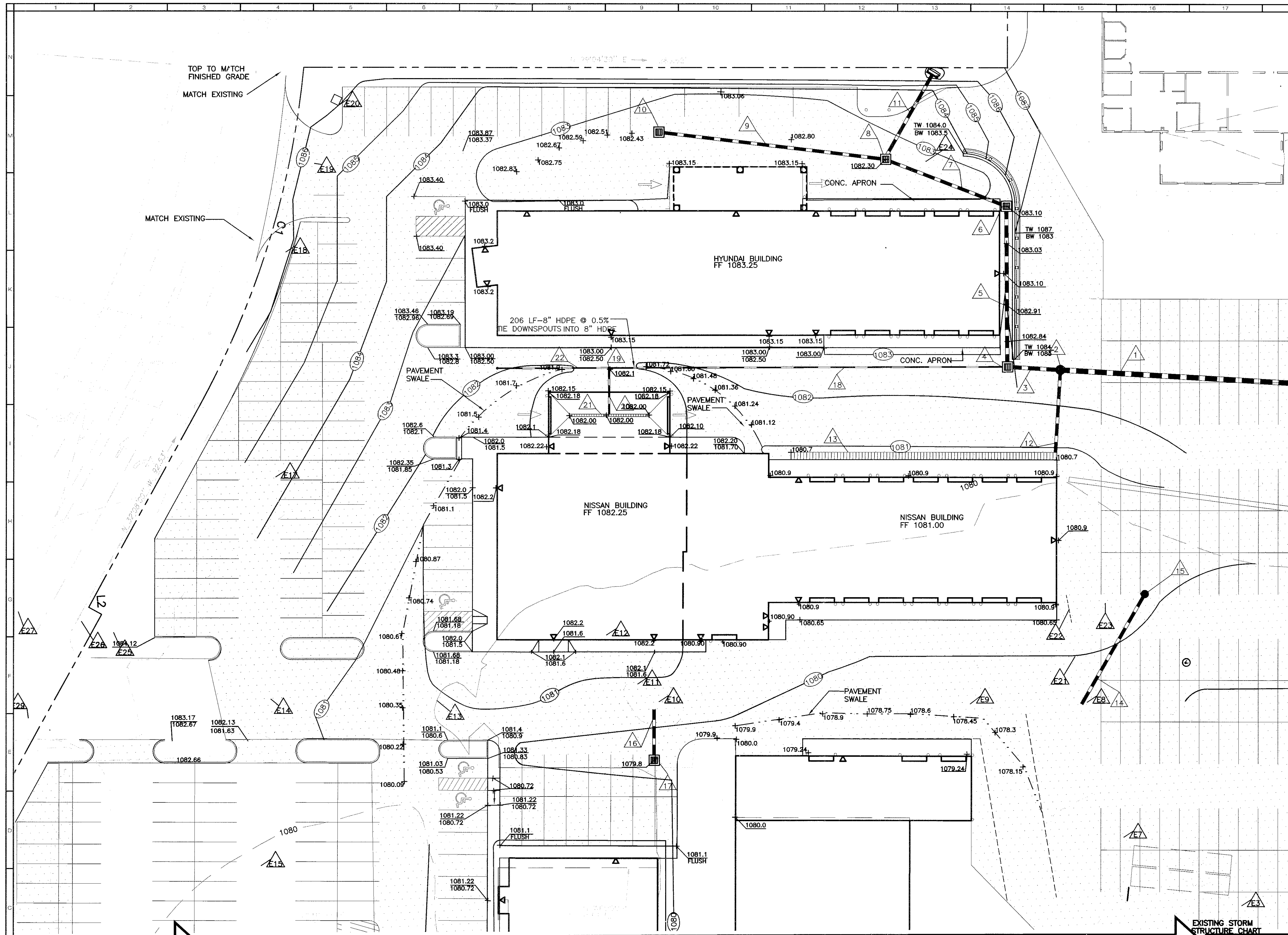




PROPOSED STORM  
STRUCTURE CHART

- 1 210.91 LF-24" HDPE @ 0.50%  
INV IN=1078.05, INV OUT=1077.00
- 2 SDMH TOP=1083.91
- 3 22.05 LF-18" HDPE @ 0.50%  
INV IN=1078.26, INV OUT=1078.15
- 4 DI-1 WITH GRATE, TOP=1082.78
- 5 65.42 LF-18" HDPE @ 0.50%  
INV IN=1078.69, INV OUT=1078.36
- 6 DI-1 WITH GRATE, TOP=1083.10
- 7 52.99 LF-15" HDPE @ 1.0%  
INV IN=1079.32, INV OUT=1078.79
- 8 DI-1 WITH GRATE, TOP=1082.30
- 9 92.21 LF-15" HDPE @ 0.5%  
INV IN=1079.88, INV OUT=1079.42
- 10 DI-1 WITH GRATE, TOP=1082.30
- 11 39.67 LF-15" HDPE @ 10.26% WITH EW-1  
INV IN=1083.49, INV OUT=1079.42
- 12 35.04 LF-15" HDPE @ 1.54%  
INV IN=1078.69, INV OUT=1078.15
- 13 TRENCH DRAIN L=108.00', TOP=1080.70  
INV IN=1079.87, INV OUT=1078.79  
NEENAH R-4990-DX OR EQUAL  
WITH GRATED COVER
- 14 51.71 LF-15" HDPE @ 8.10%  
INV IN=1073.59, INV OUT=1069.4
- 15 SDMH TOP=1080.21
- 16 23 LF-15" HDPE @ 1.17%  
INV IN=1075.27, INV OUT=1075.00
- 17 DI-1 WITH GRATE, TOP=1079.8

EXISTING STORM  
STRUCTURE CHART

|                                                                                        |                                                                                    |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| E1 162 LF 30" RCP                                                                      | TO REMAIN                                                                          |
| E2 STORM MANHOLE<br>TOP = 1067.80<br>INV = 1064.1<br>INV = 1064.0                      | TO REMAIN                                                                          |
| E3 90 LF 15" RCP                                                                       | TO REMAIN                                                                          |
| E4 DROP INLET<br>TOP = 1076.12<br>INV = 1072.7                                         | TO REMAIN                                                                          |
| E5 97 LF 15" RCP                                                                       | TO REMAIN                                                                          |
| E6 DROP INLET<br>TOP = 1077.2<br>INV = 1070.10                                         | TO REMAIN                                                                          |
| E7 123 LF 30" RCP                                                                      | TO REMAIN INV=1064.1                                                               |
| E8 STORM MANHOLE<br>TOP = 1078.90<br>INV = 1067.6<br>INV = 1067.50<br>NEW INV = 1069.4 | TO BE REPLACED                                                                     |
| E9 173 LF 30" RCP                                                                      | TO REMAIN                                                                          |
| E10 DROP INLET<br>TOP = 1077.50<br>INV = 1069.20<br>INV = 1069.20                      | TO BE MODIFIED<br>REPLACE TOP WITH<br>MANHOLE TOP SET<br>TO FINISHED GRADE         |
| E11 35 LF 25" RCP                                                                      | TO BE REMOVED                                                                      |
| E12 DROP INLET<br>TOP = 1079.60<br>INV = 1070.20                                       | TO BE REMOVED                                                                      |
| E13 155 LF 30" RCP                                                                     | TO REMAIN                                                                          |
| E14 DROP INLET<br>TOP = 1081.25<br>INV = 1071.90<br>INV = 1071.80                      | TO REMAIN                                                                          |
| E15 138 LF 15" RCP                                                                     | TO REMAIN                                                                          |
| E16 DROP INLET<br>TOP = 1077.90<br>INV = 1075.00                                       | TO REMAIN                                                                          |
| E17 180 LF 24" RCP                                                                     | TO REMAIN                                                                          |
| E18 STORM MANHOLE<br>TOP = 1087.54<br>INV = 1076.80<br>INV = 1076.70                   | TO REMAIN                                                                          |
| E19 67 LF 24" RCP                                                                      | TO REMAIN                                                                          |
| E20 DROP INLET<br>TOP = 1086.46<br>INV = 1082.5                                        | TO BE MODIFIED<br>SET FLUSH TO<br>FINISHED GRADE                                   |
| E21 40LF 15" RCP                                                                       | TO BE REMOVED                                                                      |
| E22 DROP INLET<br>TOP = 1078.08<br>INV = 1073.1<br>INV = 1073.0                        | TO BE REMOVED                                                                      |
| E23 210 LF 15" RCP                                                                     | TO BE REMOVED<br>REMOVE 32 LF FROM<br>DOWNSTREAM END AND<br>INSTALL STRUCTURE # 15 |
| E24 60 LF 15" RCP                                                                      | TO BE REMOVED                                                                      |

MATCHLINE SHEET C6

STRUCTURE CHART

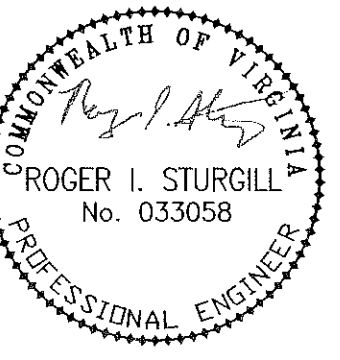
- 18 DI-1 WITH GRATE, TOP=1079.8
- 18 159.61 LF-8" HDPE @ 0.5%  
INV IN=1079.16, INV OUT=1078.36
- 19 CLEANOUT TOP=1082.0 (TRAFFIC BEARING TOP)
- 20 18.48 LF 8" HDPE @ 4.50%  
INV IN=1080.00, INV OUT=1079.16
- 21 TRENCH DRAIN, L=32.0', TOP=1082.00  
INV OUT=1080.00, NEENAH R-4990-CX OR EQUAL WITH GRATE COVER
- 22 44.94 LF-8" HDPE @ 0.5%  
INV IN=1079.38, INV OUT=1079.16

EXISTING STORM  
STRUCTURE CHART

|                                                                                  |           |
|----------------------------------------------------------------------------------|-----------|
| E25 83 LF 15" RCP                                                                | TO REMAIN |
| E26 DROP INLET<br>TOP=1085.7<br>INV IN=1078.2<br>INV IN=1075.0<br>INV OUT=1074.9 | TO REMAIN |
| E27 60 LF-15" RCP                                                                | TO REMAIN |
| E28 DROP INLET<br>TOP=1086.0<br>INV IN=1077.9<br>INV OUT=1077.8                  | TO REMAIN |
| E29 62 LF-15" RCP                                                                | TO REMAIN |
| E30 DROP INLET<br>TOP=1085.4<br>INV OUT=1080.2                                   | TO REMAIN |

GRADING PLAN

SCALE: 1"=20'



PLANNERS • ARCHITECTS  
ENGINEERS • SURVEYORS

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FIRST TEAM AUTO MALL

GRADING PLAN

HOLLINS MAGISTERIAL DISTRICT  
ROANOKE COUNTY, VIRGINIA

DRAWN BY: DRB  
DESIGNED BY: SMH  
CHECKED BY: RIS  
DATE: DEC. 2, 2002

REVISIONS:  
12-18-02  
01-08-03  
01-22-03  
02-07-03  
02-21-03

SCALE: 20'

SHEET NO.

C5

JOB NO.  
R0200107.00