

NOTES

1. ALL WATER AND SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE WESTERN VIRGINIA WATER AUTHORITY'S WATER AND SANITARY SEWER STANDARDS.
2. ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED.
3. SANITARY SEWER MATERIAL SHALL BE PVC, SDR 35, EXCEPT AS NOTED, OR APPROVED EQUAL.
4. WATER LINE MAIN MATERIAL SHALL BE C900, DR14, EXCEPT AS NOTED, OR APPROVED EQUAL.
5. ALL WATER METERS SHALL BE 5/8" x 3/4" SIZE.
6. INDIVIDUAL PRESSURE REDUCING VALVES (SEE DETAIL W-02, ON SHEET 14) ARE REQUIRED ON THE CUSTOMER'S SIDE OF THE METER FOR LOTS 1 THROUGH 4 AND 30 THROUGH 32.
7. THE WORKING PRESSURE FOR WATER MAINS WITHIN THE BOUNDARIES OF THIS SUBDIVISION IS LESS THAN 100 PSI.
8. NET TAPS TO THE EXISTING WATER MAIN ARE TO BE PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY AFTER EXCAVATION IS PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE TAPPING SLEEVE AND TAPPING VALVE.
9. SANITARY SEWER CONNECTIONS TO THE EXISTING MANHOLES SHALL BE EXCAVATED BY THE CONTRACTOR AND CENTER MARKED FOR CORING (IF REQUIRED). CORING, IF REQUIRED, TO BE PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS FOR DAMAGE TO EXISTING STRUCTURES AS A RESULT OF CONSTRUCTION IN ACCORDANCE WITH VDOT, WESTERN VIRGINIA WATER AUTHORITY, AND/OR ROANOKE COUNTY STANDARDS AND SPECIFICATIONS.
11. PERPENDICULAR SAW CUT AND TACK COAT TO BE PROVIDED WHERE NEW PAVEMENT CONNECTS TO EXISTING PAVEMENT. LOCATION OF SAW CUT TO BE DETERMINED IN FIELD AND SHALL BE LOCATED AT THE TERMINATION OF THE FULL DEPTH ASPHALT SECTION FOR THE EXISTING PAVEMENT.

FIRE HYDRANT FLOW AND PRESSURE INFORMATION			
HYDRANT LOCATION	STATIC PRESSURE	FLOW	RESIDUAL PRESSURE
STA 14+54.80 CRUMPACKER DRIVE	81 PSI	2180 GPM	56 PSI
STA 40+42.84 TOLMAN CIRCLE	61 PSI	2200 GPM	37 PSI
STA 29+15.22 CRUMPACKER DRIVE	47 PSI	2050 GPM	20 PSI

FIRE FLOW INFORMATION IS BASED ON A WATERLOG COMPUTER SIMULATION ASSUMING THAT THE WATER TANKS SERVING THIS DEVELOPMENT ARE AT ELEVATION 1390. IN ADDITION, AN ESTIMATION OF THE EXISTING DOMESTIC DEMAND ON THE SYSTEM WAS INCLUDED IN THE SIMULATION. THIS INFORMATION HAS NOT BEEN FIELD VERIFIED.

Sewer Distances

MH EX1 → MH1A	38.6'
1A → 1	105.6'
1 → 2	49.0'
2 → 3	22.9'
3 → 4	253.0'
4 → 5	176.3'
5 → 6	30.0'
6 → 7	148.3'
7 → 8	253.0'
8 → 9	204.4'
9 → EX2	96.0'
EX3 → 11	184.7'
11 → 11A	138.5'
11A → 12	15.7'
12 → 13	99.4'
13 → 14	163.1'
14 → 15	154.2'

Sewer MH Depths

MH 1A	6.60'
1	10.60'
2	11.10'
3	12.30'
4	11.87'
5	11.60'
6	7.60'
7	7.70'
8	8.20'
9	8.70'
10	5.40'
11	7.90'
12	9.56'
13	8.70'
14	5.70'
15	4.60'

SANITARY SEWER MAIN BEARINGS AND DISTANCES		
LINE	BEARING	DISTANCE
EX1 TO 1A	S 38° 48' 18" W	38.08'
1A TO 1	S 38° 48' 18" W	108.10'
1 TO 2	S 68° 10' 50" W	47.05'
2 TO 3	N 55° 31' 02" W	226.07'
3 TO 4	N 65° 43' 24" W	250.59'
4 TO 5	N 71° 37' 52" W	176.54'
5 TO 6	S 81° 05' 37" W	28.67'
6 TO 7	S 84° 23' 55" W	149.51'
7 TO 8	S 83° 14' 08" W	250.85'
8 TO 9	S 48° 50' 06" W	201.74'
EX2 TO 10	N 41° 25' 36" E	95.51'
EX3 TO 11	N 60° 08' 13" W	184.88'
11 TO 11A	N 35° 04' 20" W	136.85'
11A TO 12	N 35° 04' 20" W	18.39'
12 TO 13	S 65° 31' 24" W	99.42'
13A TO 14	N 08° 59' 11" E	163.20'
14 TO 15	N 10° 59' 21" E	149.83'

C1 Centerline A= 1578.49' D= 514.74' R= 1000.00' T= 134.50' L= 287.56' P.C. 15+15.89 P.T. 15+50.48 P.T. 17+83.44	C2 Centerline A= 4948.44' D= 1729.508' R= 570.00' T= 152.30' L= 285.18' P.C. 20+24.30 P.T. 21+76.60 P.T. 23+08.48	C3 Centerline A= 2439.54' D= 1003.07' R= 570.00' T= 124.62' L= 245.33' P.C. 25+02.46 P.T. 26+27.08 P.T. 27+47.84
C4 Centerline A= 2205.35' D= 315.47' R= 1755.92' T= 345.08' L= 677.59' P.C. 28+55.31 P.T. 31+48.37 P.T. 35+32.80	C5 Centerline A= 3232.32' D= 2225.068' R= 250.00' T= 12.07' L= 141.89' P.C. 40+44.82 P.T. 41+17.79 P.T. 41+68.81	C6 Centerline A= 4840.57' D= 3058.15' R= 165.00' T= 63.00' L= 157.19' P.C. 41+68.81 P.T. 42+78.50 P.T. 43+44.00

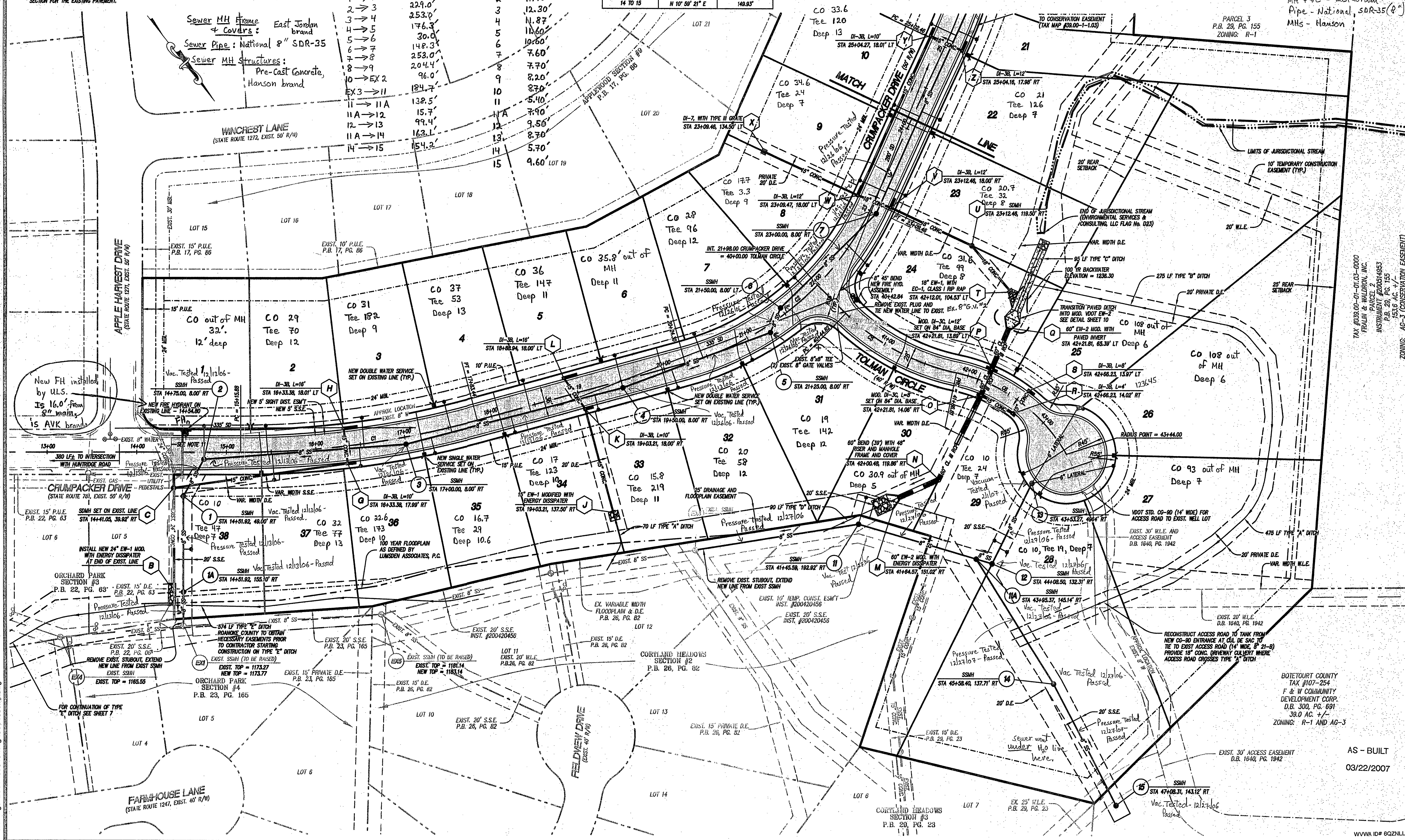
ABBREVIATIONS

D.E.	DRAINAGE EASEMENT
W.E.	WATER LINE EASEMENT
S.S.E.	SANITARY SEWER EASEMENT
P.U.E.	PUBLIC UTILITY EASEMENT
EASMT.	EASEMENT
M.B.L.	MINIMUM BUILDING LINE
R/W	RIGHT OF WAY
VAR.	VARIABLE
EXIST.	EXISTING
D.B.	DEED BOOK
P.B.	PLAT BOOK
PG.	PAGE
No.	NUMBER
TYP.	TYPICAL
STATION	STATION
LT.	LEFT
RT.	RIGHT
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SSMH	STORM DRAIN MANHOLE
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
W	WATER LINE

LEGEND

ITEM	EXISTING	PROPOSED
Pavement	---	---
Curb and Gutter	---	---
Storm Drain Line	---	---
Sanitary Sewer Manhole	---	---
Sanitary Sewer Line	---	---
Waterline	---	---
Hydrant	---	---
Underground Electric Line	---	---
Overhead Electric Line	---	---
Underground Telephone Line	---	---
Contours	---	---
Tree/line	---	---

MH F9C = East Jordan
Pipe - National, SDR-35(8")
MHS - Hanson



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PREPARED FOR
F. & W. COMMUNITY DEVELOPMENT CORPORATION
HOLLIS MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

DIMENSIONAL LAYOUT

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DATE: October 23, 2006

SCALE: 1" = 50'

COMMISSION NO.: 2005-346

SHEET 5 OF 16