#### D -\_\_\_\_\_ PARTIAL GRADING PLAN , SECT. I, BLOCK 2 , LOTS 67,8,9,10 & 11 MATER DETAILS \_\_\_\_\_ SANITARY SEWER DETAILS 13 \_\_\_\_\_ EROSION & SILTATION CONTROL DETAILS YESIGNED J.V.J. REVISIONS REMARKS DATE BY DRAWN D.W.B. 5-17-88 REVISED PER IST REVIEW ROANOKE CO. S.V.D.D.T. DW.B. 6-30-88 REVISED PER 250 REVIEW ROANOKE CO. JOHN T. PARKER 1ATE 2-19-88 CIVIL ENGINEER TCALE AS SHOWN CERTIFICATE NO. H.O. 87-2186 5447 N.B. <u>J.R.-18</u>

## SURVEY INFORMATION

by T.P. PARKER & SON, LTD. All elevations must be referenced to the National Geodetic Vertical Datum of 1929 Source of topographic mapping is T.P. PARKER & SON, LTD. dated 1987 Boundary survey was performed by T.P. PARKER & SON, LTD.

# ENGINEERS NOTES

T.P. PARKER & SON assumes no responsibility for adequacy of plans or for information on plans until such plans have approved by the required public

Any work commenced on a project prior to plan approval is at sole risk of

T.P. PARKER & SON does not guarantee the completion or quality of performance of the contracts or the completion or quality of performance of contracts by subcontractors or other third parties.

#### LEGEND

Property Line		<u> </u>	<del></del>	
Right of -way —		—-R/W—- ——-		
Centerline —		<u> </u>	-	
Minimum building line		<u>•</u>	·	
Exist storm sewer	18"SD ====	<del></del>		18"S D
Exist sanitary sewer	8"SAN			B"SAN ====================================
Exist water main	4" W	<del></del>	<u> </u>	4'W
Exist contour			- 1045	
Prop contour			- 1045	•
Prop dramage divide				
Prop. limits of clearing	· · · · · · · · · · · · · · · · · · ·		<del></del> .	
Prop storm sewer		24" S D.		
Prop sanitary sewer	В"		М,Н	•
Prop water main		1 10115	<del></del>	BLOWOFF -
	. HYDRAN	VALVE >		BLOWER -

# SEWER NOTES

A minimum cover of three (3) feet is required over proposed lines. Contractor shall be responsible for locating and uncovering all manholes after paving, Manhole tops shall be adjusted to grade if necessary.

All existing utilities may not be shown or may not be shown in the exact location. Time contractor shall comply with State Water Works Regulations, Section 12.05.03, where

House connections are to be made with 40 pipe installed on a minimum orage of 1/4 inch

Laterals from manholes shall be PV.C. or Ductile Iron of sufficient length to provide two (2) feet of bearing on natural ground. The transition from ductile iron to asbestos coment or concrete pipe shall be made with an adapter coupling in R/W.

All trenches in existing or future highway right of ways shall be compacted according

#### WATER NOTES

A minimum cover of Three (3) feet is required over proposed lines. Contractor shall be responsible for locating and uncovering valve vaults after paving and adjustment to final grade if necessary.

All existing utilities may not be shown or may not be shown the exact location. The contractor shall comply with State Water Works Regulations, Section 12.05 03, where

All trenches in existing or future highway right of ways shall be compacted according to V.D.H. & T. standards.

Lines shall be staked prior to construction

Water main shall be minimum Class 52 ductile iron in accordance to AWWA Cl51 or DR-14 PVC in accordance to AWWA C-900.

Application for utilities to serve development reference

### V.D.H.&T. NOTES

Streets to be graded, paved and all structural components erected in accordance with the Virginia Department of Highways and Trans-portation Road and Bridge Specifications and Road Design Standards. All materials used shall be tested in accordance with standard policies. The developer must contact the office of the resident engineer, prior to beginning any construction at which time an inspection and testing procedure policy will be drawn. The developer may produce test reports from a proved independent laboratories or solicit testing by VDHT, in either event at the developer's expense.

The pavement designs shown are based on a subgrade rating of CBR 10 or greater. The subgrade soil is to be tested by an independent laboratory and the results submitted to the Virginia Department of Highways and Transportation prior to pavement construction. Should the subgrade CBR values be less than CBR 10, then additional base material will be required.

All necessary utility laterals will be placed prior to pavement surfacing or conduit provisions made for the same (i.e. water, sewer, gas and telephone).

Gas or petroleum transmission lines will not be permitted within the pavement or shoulder element (back of curb to back of curb) of this development. Service laterals crossing and pipe lines located outside the pavement but inside the right of way will be constructed in conformity with A.S A. B-31.8 specifications and safety regulations. Distribution lines with pressures less than 120 lbs. are unaffected by the above.

Permits will be required for all utilities within street right of way prior to acceptance into the secondary highway system.

Standard CG-8 gutter will be provided at all entrances to private lots where Standard CG-6 curb and gutter is approved for use.

Permits will be required for all private entrances constructed on street rights of way prior to acceptance into the secondary highway Care must be taken during construction to prevent erosion, dust

and mud from damaging adjacent property, clogging ditches, track-ing public streets and otherwise creating a public or private nuisance to surrounding areas.

The entire construction area back of curbs and or pavement to be backfilled and seeded together with ditches and channels, at the earliest possible time after final grading.

Drainage easements must be defined by excavated ditches or channels for their full length to well defined existing natural watercourses. This road will be reviewed during construction for the need and

limits of paved gutters.

ALITATION I ONDITELIO

If erosion is encountered in any drainage easement, it will be the responsibility of the developer to sod, rip-rap, grout, pave, or to do whatever is necessary to correct the problem.

Minimum pavement radius of 25 feet required at all street inter-

While these plans have been approved, such approval does not exempt connections with existing state-maintained roads from critical review at the time permit applications are made. This is necessary in order that the prevailing conditions be taken into consideration regarding safety requirements. Additional safety accompaniments such as turning lanes may or may not be required.

ALL FILL MATERIAL ON SITE SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR TEST

NAME OF DEVELOPMENT PLANIATION GARDENS				
LOCATION	HOLLINS MAGISTERIAL DIŜTRICT PLÂNTATION ROAD, ROANOKE COUNTY, VIRGINIA			
OWNER (name, address, telephone)	F. & B. DEVELOPER'S, INC.	(703) 989-9044		
DEVELOPER (name, address, telephone)	SEE ABOVE			
ENGINEER, ARCHITECT OR SURVEYOR (name, address, phone)	T.P. PARKER & SON, LTD. BIG BOULEVARD SALEM, VIRGINIA 24153	(703) 387-1153		
TAX MAP NO(S)	BLOCK NO(S) 5	PARCEL_NO(S)		

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8 -IN SAN SEWER P.V.C.

4 - IN SAN SEWER P.V.C.

STD. MANHOLE W/FRAME & COVER

AS-BUILT PLANS

CONTINGENCY

ESTIMATED TOTAL

SUB - TOTAL

SERVICE CONNECTIONS W/ CLEANOUTS

hereby certify that the foregoing estimate reflects the current improvement costs of this project

3,551

80

17

15.00

 $\infty$ .SI

1,000

400

1,000

LIN FT

LIN FT

EA.

EA.

LUMP SUM

LUMP SUM

53,265

960

17,000

29,200

 $1,\infty$ 

\$ 308,728

**\$** 30,873

\$ 339,601

CHECKED \_\_\_