

DRAINAGE DESCRIPTIONS

SHEET C102

- (C102-1) Adjust Existing MH-1 or 2
Adjust to Grade
9.0 LF St'd. MH-1 or 2 Req'd.
1 St'd. MH-1 Frame & Cover Req'd
Proposed Top Elev. 1118.7'
Inv. 1109.7'
1 St'd. SL-1 Req'd
- (C102-1 - C102-3) 29.5'-24" Existing Pipe (Exist.Cover)
Inv.(In) 1109.7' Inv.(Out) 1109.4'
- (C102-2) Existing Drop Inlet
To Be Removed
- (Exist.Hdwl. - C102-3) 47.4'-36" Existing Pipe (Exist.Cover)
Inv.(In) 1112.9' Inv.(Out) 1109.4'
- (C102-3) Replace Existing Grate Inlet
Add MH-1 or 2.
Adjust To Grade
8.5 LF St'd. MH-1 or 2 Req'd.
Proposed Top Elev. 1117.6'
1 St'd. MH-1 Frame & Cover Req'd
Inv. 1109.3'
1 St'd. SL-1 Req'd
- (C102-3 - C102-4) 37.5'-36" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1109.3' Inv.(Out) 1108.9
- (C102-4) Adjust Existing MH
Adjust to Grade.
8.2 LF St'd. MH-1 or 2 Req'd.
Proposed Top Elev. 1117.0'
St'd. MH-1 Frame & Cover Req'd
Inv. 1108.8'
1 St'd. SL-1 Req'd
- (C102-4 - C102-10) 138.8'-36" Existing Pipe (Exist.Cover)
Inv.(In) 1108.8' Inv.(Out) 1101.9'
- (C102-5) 1 St'd. DI-3B Req'd
L =10.0'. H =4.0' Inv. 1114.3'
St'd. IS-1 Req'd.
- (C102-5 - C102-6) 15.6'-24" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1114.3' Inv.(Out) 1113.5'
- (C102-6) Adjust Existing MH-1 or 2
Adjust to Grade
8.5 LF St'd. MH-1 or 2 Req'd.
1 St'd. MH-1 Frame & Cover Req'd
Proposed Top Elev. 1117.7'
Inv. 1109.2'
1 St'd. SL-1 Req'd
- (C102-6 - C102-4) 29.7'-36" Existing Pipe (Exist.Cover)
Inv.(In) 1109.2' Inv.(Out) 1108.9'
- (C102-7) Adjust Existing MH-1 or 2
Adjust to Grade
1 St'd. MH-1 Frame & Cover Req'd.
Approx. Proposed Top Elev. 1117.99'
- (C102-8) Adjust Existing MH-1 or 2
Adjust to Grade
1 St'd. MH-1 Frame & Cover Req'd.
Approx. Proposed Top Elev. 1117.12'
- (C102-9) 1 St'd. DI-13 Type II Req'd
L =20'. H =3.3' Inv. 1114.0'
St'd. IS-1 Req'd.
- (C102-9 - C102-10) 79.0'-15" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1114.0' Inv.(Out) 1101.9'
- (C102-10) 9.3 LF St'd. MH-1 or 2 Req'd.
1 St'd. MH-1 Frame & Cover Req'd
Inv. 1101.8'
1 St'd. SL-1 Req'd
- (C102-10 - C102-11) 16'-36" Conc. Pipe Req'd. (1'Cover)
Inv.(In) 1101.8' Inv.(Out) 1101.3'
- (C102-11) 1 St'd. 36" EW-1 Req'd.
Inv. 1101.3'
Proposed Top Elev. 1105.38
- (C102-12) Replace Existing Drop Inlet
Add MH-1 or 2 Req'd.
Adjust to Grade
6.5 LF St'd. MH-1 or 2 Req'd.
1 St'd. MH-1 Frame & Cover Req'd
Inv. 1117.8'
1 St'd. SL-1 Req'd
- (C102-12 - C102-13) 32'-24" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1117.8' Inv.(Out) 1113.7'

- (C102-13) 7.2 LF St'd. MH-1 or 2 Req'd.
1 St'd. MH-1 Frame & Cover Req'd
Inv. 1113.6'
1 St'd. SL-1 Req'd

- (C102-13 - C102-1) 52'-24" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1113.6 Inv.(Out) 1109.8'

SHEET C103

- (C103-1) 1 St'd. DI-3B Req'd
L =8.0. H =3.7' Inv. 1132.2'
St'd. IS-1 Req'd.
- (C103-1 - C103-2) 40'-15" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1132.2' Inv.(Out) 1125.7'
- (C103-2) 4.5 LF St'd. MH-1 or 2 Req'd.
1 St'd. MH-1 Frame & Cover Req'd
Inv. 1125.6'
1 St'd. SL-1 Req'd
- (C103-2 - C103-3) 16'-18" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1125.6' Inv.(Out) 1124.3'
- (C103-3) 1 St'd. DI-3B Req'd
L =8.0. H =4.7' Inv. 1124.2'
St'd. IS-1 Req'd.
- (C103-3 - C102-13) 138'-24" Conc. Pipe Req'd. (2'Cover)
(350 Radius with open joints - using 8' pipe joint lengths)
Joints are to be opened a maximum of 25% of the spigot or tongue length.
Inv.(In) 1124.2 Inv.(Out) 1113.7'
- (C103-4) 1 St'd. DI-3B Req'd
L =8.0. H =3.7' Inv. 1125.1
St'd. IS-1 Req'd.
- (C103-4 - C103-3) 45'-15" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1124.7' Inv.(Out) 1124.3'
- (C103-5) 1 St'd. DI-3B Req'd
L =10.0'. H =4.1' Inv. 1133.9'
St'd. IS-1 Req'd.
- (C103-5 - C103-2) 93.0'-18" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1133.9' Inv.(Out) 1125.7'
- (C103-6) 1 St'd. DI-3B Req'd
L =10.0'. H =6.3' Inv. 1148.5'
St'd. IS-1 Req'd.
- (C103-6 - C103-5) 158'-18" Conc. Pipe Req'd. (2'Cover)
(295' Radius with open joints - using 8' pipe joint lengths)
Joints are to be opened a maximum of 25% of the spigot or tongue length.
Inv.(In) 1148.5 Inv.(Out) 1134.0
- (C103-7) 1 St'd. DI-3B Req'd
L =6.0'. H =3.8' Inv. 1157.7'
St'd. IS-1 Req'd.
- (C103-7 - C103-6) 127'-15" Conc. Pipe Req'd. (2'Cover)
(295' Radius with open joints - using 8' pipe joint lengths)
Joints are to be opened a maximum of 25% of the spigot or tongue length.
Inv.(In) 1157.7' Inv.(Out) 1148.6'
- (C103-8) 1 St'd. DI-3B Req'd
L =6.0'. H =3.8' Inv. 1160.2'
St'd. IS-1 Req'd.
- (C103-8 - C103-7) 137'-15" Conc. Pipe Req'd. (2'Cover)
(295' Radius with open joints - using 8' pipe joint lengths)
Joints are to be opened a maximum of 25% of the spigot or tongue length.
Inv.(In) 1160.2' Inv.(Out) 1157.8'
- (C103-9) 1 St'd. DI-3B Req'd
L =4.0'. H =3.8' Inv. 1162.2'
St'd. IS-1 Req'd.
- (C103-9 - C103-8) 127'-15" Conc. Pipe Req'd. (2'Cover)
(295' Radius with open joints - using 8' pipe joint lengths)
Joints are to be opened a maximum of 25% of the spigot or tongue length.
Inv.(In) 1162.2' Inv.(Out) 1160.3'
- (C103-10) 1 St'd. DI-3B Req'd
L =4.0'. H =3.7' Inv. 1162.7'
St'd. IS-1 Req'd.
- (C103-10 - C103-9) 44.7'-15" Conc. Pipe Req'd. (2'Cover)
Inv.(In) 1162.7' Inv.(Out) 1162.3'

- (C103-11) 1 St'd. 15" ES-1 Req'd
Inv. 1132.0'
36 SY St'd. EC-1, Class III Req'd.
Type A Installation, Modified Length=25'

- (C103-12) 7.6 LF St'd. SWM-1 Req'd.
60" Diameter
Inv. 1121.8'

- (C103-12 - C102-12) 74.1'-24" Conc. Pipe Req'd. (9'Cover)
Inv.(In) 1121.8' Inv.(Out) 1117.9'

- (C103-13) Replace Existing Drop Inlet
Add MH-1 or 2.
Adjust to Grade
8.6 LF St'd. MH-1 or 2 Req'd.
Proposed Top Elev. 1142.5'
1 St'd. MH-1 Frame & Cover Req'd
Inv. 1133.8'

- (C103-13 - C103-11) 26.8'-15" Conc. Pipe (2'Cover)
Inv.(In) 1133.8' Inv.(Out) 1132.0'

TEMPORARY DRAINAGE

- (C103-13 - C103-1) 57.5'-15" Temporary Pipe (5'Cover)
Inv.(In) 1133.8' Inv.(Out) 1132.2'

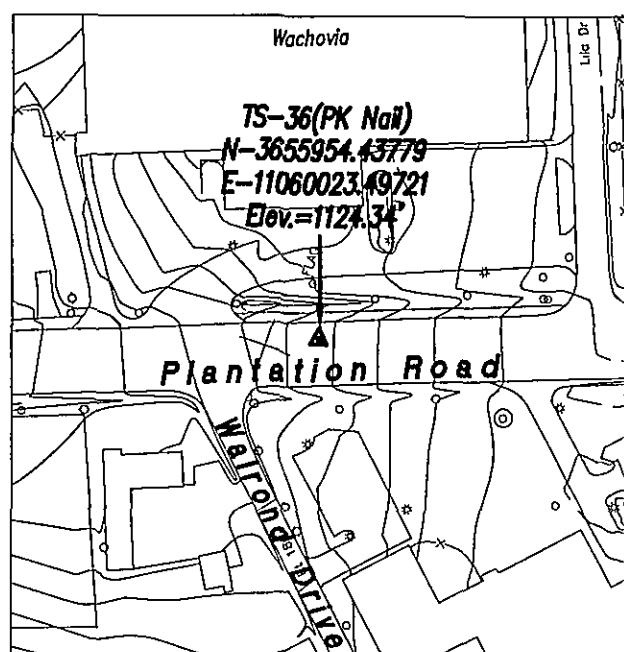
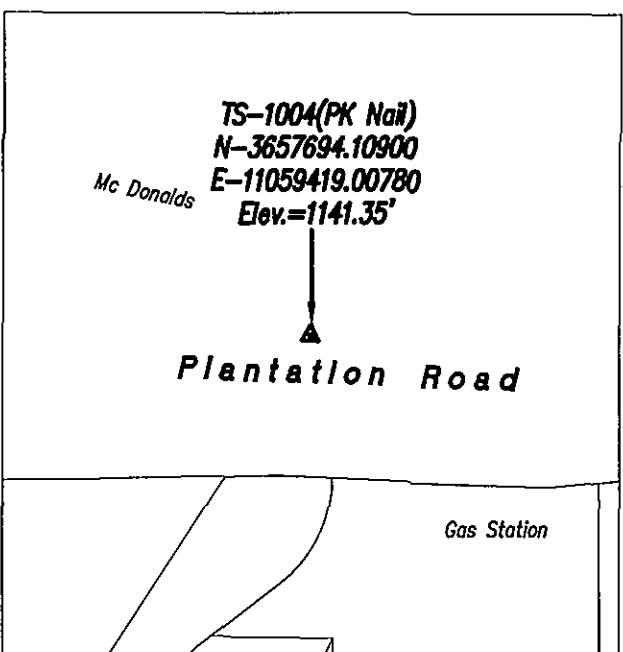
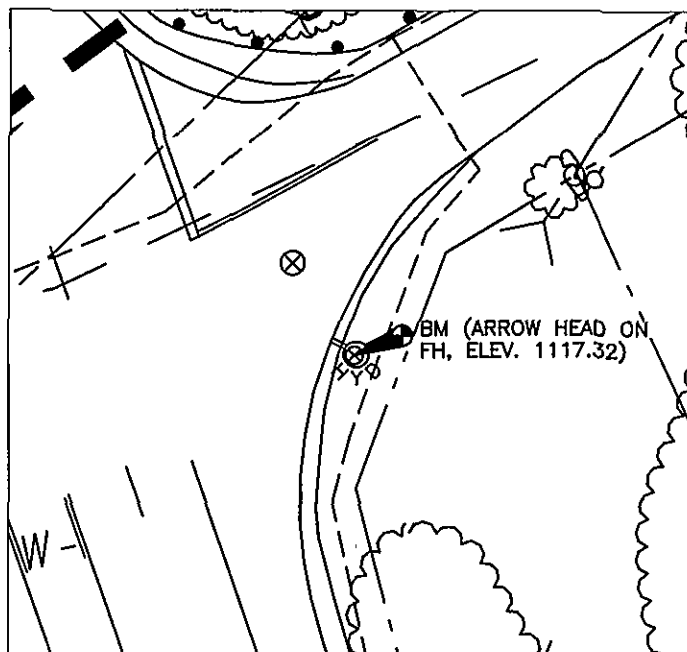
- Temp. DI-7 1 St'd. DI-7 Req'd Grate A Type II Req'd.
H =3.6' Inv. 1117.8'
(Approx. Sta.11+45 GANDER WAY)

- (Temp. DI-7 - C102-5) 88.6'-24" Temporary Pipe (1'Cover)
Inv.(In) 1117.8' Inv.(Out) 1114.3

- (C102-5) During Temporary Drainage This Structure
Will Have The Proposed DI-3B Base But Will
Start Out As A MH To Convey Water From The
Temp. DI-7 To The Existing Storm Drain Network
1 St'd. DI-3B Req'd
L =10.0'. H =4.0' Inv. 1114.3'
St'd. IS-1 Req'd.

APPROVED

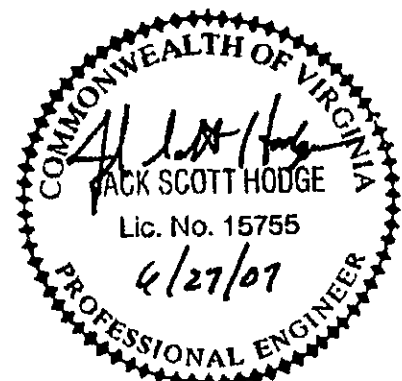
SURVEY CONTROL POINTS



Notes:

- 1) Origin of the Horiz. Control Coordinates were assumed.
2) Vertical Control is based on NGVD 29.

SEALS



CONSULTANT

OPPIDAN RETAIL CENTER

OPPIDAN INVESTMENT COMPANY

ROANOKE COUNTY, VIRGINIA

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CIVIL

DRAINAGE DESCRIPTIONS
AND SURVEY CONTROL

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