



NEW DRAIN CURVE TABLE

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
1	50.00'	76.19'	47.71'	89.03'	N 48°27'09" E	87°18'41"
2	300.00'	450.78'	280.21'	409.58'	N 45°50'30" E	80°05'35"
3	50.00'	80.86'	52.17'	72.20'	S 47°21'03" E	92°25'59"
4	25.00'	37.04'	22.87'	33.75'	S 43°34'59" E	84°53'52"
5	25.00'	39.27'	25.00'	35.30'	S 45°00'20" E	90°00'39"
6	25.00'	10.08'	5.11'	10.01'	N 78°26'05" E	23°06'31"
7	25.00'	39.78'	25.51'	35.71'	N 44°24'55" E	91°09'29"
8	25.00'	33.33'	19.67'	30.92'	N 37°01'48" E	76°23'15"
9	50.00'	70.77'	42.78'	65.01'	S 39°08'13" W	81°05'48"

DRAIN CONSTRUCTION NOTES

1. MAINTAIN FLOW IN EXISTING DRAINS UNTIL NEW DRAINS ARE FULLY CONSTRUCTED AND STABILIZED WITH TEMPORARY EROSION CONTROL MEASURES. STRIP TOPSOIL AND INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES PRIOR TO STARTING EXCAVATION.
2. NEW DRAIN SECTIONS MAY BE CONNECTED TO EXISTING DRAINS TO ALLOW PROPER DRAINAGE AND DEWATERING DURING CONSTRUCTION.
3. CLEAR DRAIN EASEMENT OF ALL TREES, BRUSH, AND DEBRIS. PROTECT OFF-SITE TREES. TREE LIMITS INDICATED ON THE PLAN ARE INTENDED MAJOR GROUPINGS OF TREES. INDIVIDUAL OR SMALLER GROUPS OF TREES OR BRUSH MAY ALSO REQUIRE REMOVAL.
4. PLACE SPILL MATERIAL ON THE "INLAND" SIDE OF THE DRAIN. ALL CLEAN FILL MATERIAL SHALL REMAIN ON THE SITE. ALL UNSUITABLE FILL MATERIAL OR ORGANIC DEBRIS SHALL BE REMOVED FROM THE SITE.
5. CONTRACTOR SHALL SUBMIT AND COMPLY WITH ALL TERMS OF THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT FROM THE KENT COUNTY ROAD COMMISSION.
6. REMOVAL OF SEGMENT AND DEBRIS FROM ALL EXISTING DRAINS AND BACKFILLING WITH ENGINEERED FILL IS CRITICAL AND SHALL STRICTLY FOLLOW THE PROCEDURES LISTED IN THE SPECIFICATIONS.
7. RECONSTRUCT SANITARY MANHOLES ALONG RIVERTOWN PARKWAY AS SHOWN ON THE PLANS. REMOVE AND REPLACE MANHOLE BARREL SECTIONS AS NECESSARY TO ADJUST RIM ELEVATION. REPLACE ALL CASTINGS AND COVERS WITH E.J.L.W. 1120-PT. PRESSURE TIGHT COVER.
8. DEWATERING MAY BE NECESSARY TO COMPLETE THE INSTALLATION OF THE NEW DRAIN AND CULVERTS. REFER TO THE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.



PLAN VIEW
 SCALE 1" = 100'

LEGEND

- EXTG. WATER MAIN
- EXTG. SANITARY SEWER
- EXTG. TREE LINE
- EXTG. WETLAND LIMITS
- EXTG. GROUND CONTOUR
- EXTG. MONITOR WELL
- EXTG. SOIL BORING (W/ NUMBER & YEAR)
- SLOPE STAKE LINE
- PROPOSED CULVERT (SEE ADJ. TABLE)
- R.P. RAP
- 33 STONE FILTER (SEE DETAIL SHEET)

PROPOSED CULVERT TABLE

CULVERT NUMBER	LOCATION	TYPE	SIZE	LENGTH (FEET)	OUTLET INV. ELEV.	CULVERT SLOPE
1	HUIZENGA DR. BRANCH 2 STA. 10+03 TO 11+20	CONCRETE BOX W/ END SECTIONS	7' x 5'	117'	629.71	0.12%
2	HUIZENGA DR. BRANCH 2 STA. 28+53 TO 30+03	CONCRETE BOX W/ END SECTIONS	7' x 5'	150'	632.00	0.12%
3	HUIZENGA DR. BRANCH 2 STA. 41+15 TO 41+85	CONCRETE BOX W/ END SECTIONS	6' x 4'	70'	634.23	0.23%
4	HUIZENGA DR. BRANCH 1 STA. 44+77 TO 6+47	CONCRETE BOX W/ END SECTIONS	10' x 5'	150'	630.34	0.41%
5	HUIZENGA DR. BRANCH 2 STA. 0+33 TO 1+58	CONCRETE BOX W/ END SECTIONS	TWIN 8' x 4'	125'	629.40	0.16%

* INVERT ELEVATIONS ON THE BOX CULVERTS ARE 1 FT. BELOW DITCH BOTTOM TO CREATE A NATURAL DITCH BOTTOM THROUGH CULVERT.

DRAIN RELOCATION PLAN
 RiverTown Crossings