Docusign Envelope ID: 49367812-862C-40D6-8ECB-7C5FAF876061

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
W-5704E	6
R/W SHEET NO.	

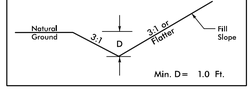
ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 19724 ENGINEER MATTHEW BURKE EVANS
3/16/2026

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 044158 ENGINEER BRIAN JAMES LEWICKI
3/16/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

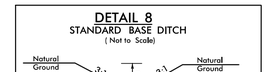
DETAIL 1
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



Min. D= 1.0 Ft.

FROM	–L– STA. 38+00	TO	STA. 38+45 RT
FROM	–L– STA. 44+25	TO	STA. 49+50 RT
FROM	–L– STA. 50+50	TO	STA. 52+50 RT
FROM	–L– STA. 38+00	TO	STA. 40+00 LT
FROM	–L– STA. 44+00	TO	STA. 48+50 LT
FROM	–Y4– STA. 11+30	TO	STA. 15+00 RT
FROM	–Y4– STA. 10+50	TO	STA. 15+00 LT
FROM	–Y5– STA. 14+50	TO	STA. 15+28 RT
FROM	–Y5– STA. 14+50	TO	STA. 15+28 LT

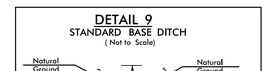
DETAIL 8
STANDARD BASE DITCH
(Not to Scale)



Min. D= 1.5 Ft.
B= 3.0 Ft.

–L– STA. 47+21 LT
–L– STA. 47+00 RT

DETAIL 9
STANDARD BASE DITCH
(Not to Scale)



Min. D= 1.5 Ft.
B= 4.0 Ft.

–L– STA. 38+27 LT

2020 ADT	
2040 ADT	
12,320	–L– SR 1700
18,400	
1,820 / 2,600	1,350 / 2,300
	11,840 / 18,100
	3,170 / 4,900

–Y4– SR 1705 (CASTLEBURY ROAD)

SEE SHEET 12 FOR –L– PROFILE
SEE SHEET 14 FOR –Y4– PROFILE
SEE SHEET 15 FOR –Y5– PROFILE

★ UPGRADE EXISTING OR NEW SIGNAL

–L– CURVE DATA

PI Sta 39+41.70	PI Sta 49+12.84
Δ = 22° 07' 12.3" (LT)	Δ = 9° 37' 30.0" (LT)
D = 2° 51' 53.2"	D = 4° 58' 56.1"
L = 772.14'	L = 193.19'
T = 390.94'	T = 96.82'
R = 2,000.00'	R = 1,150.00'
SE = 04	SE = 04
DS = 50 MPH	DS = 50 MPH

–Y4– CURVE DATA

PI Sta 10+55.53
Δ = 15° 57' 30.9" (RT)
D = 28° 38' 52.4"
L = 55.71'
T = 28.03'
R = 200.00'
SE = SEE PLANS
DS = STOP COND.

3/16/2026
X:\Vcdot\w-5704e\roadway\proj\W-5704E_RDY_PSH06.dgn
User:bevans