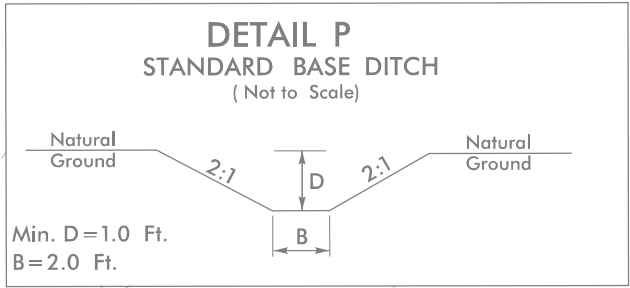
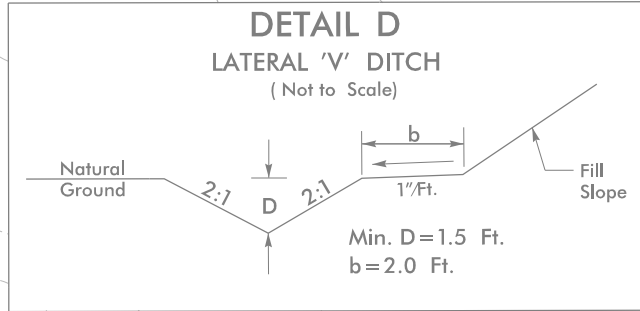
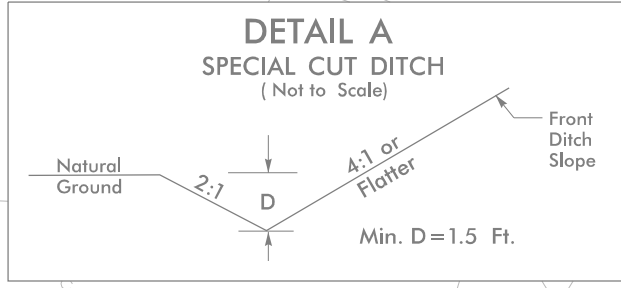
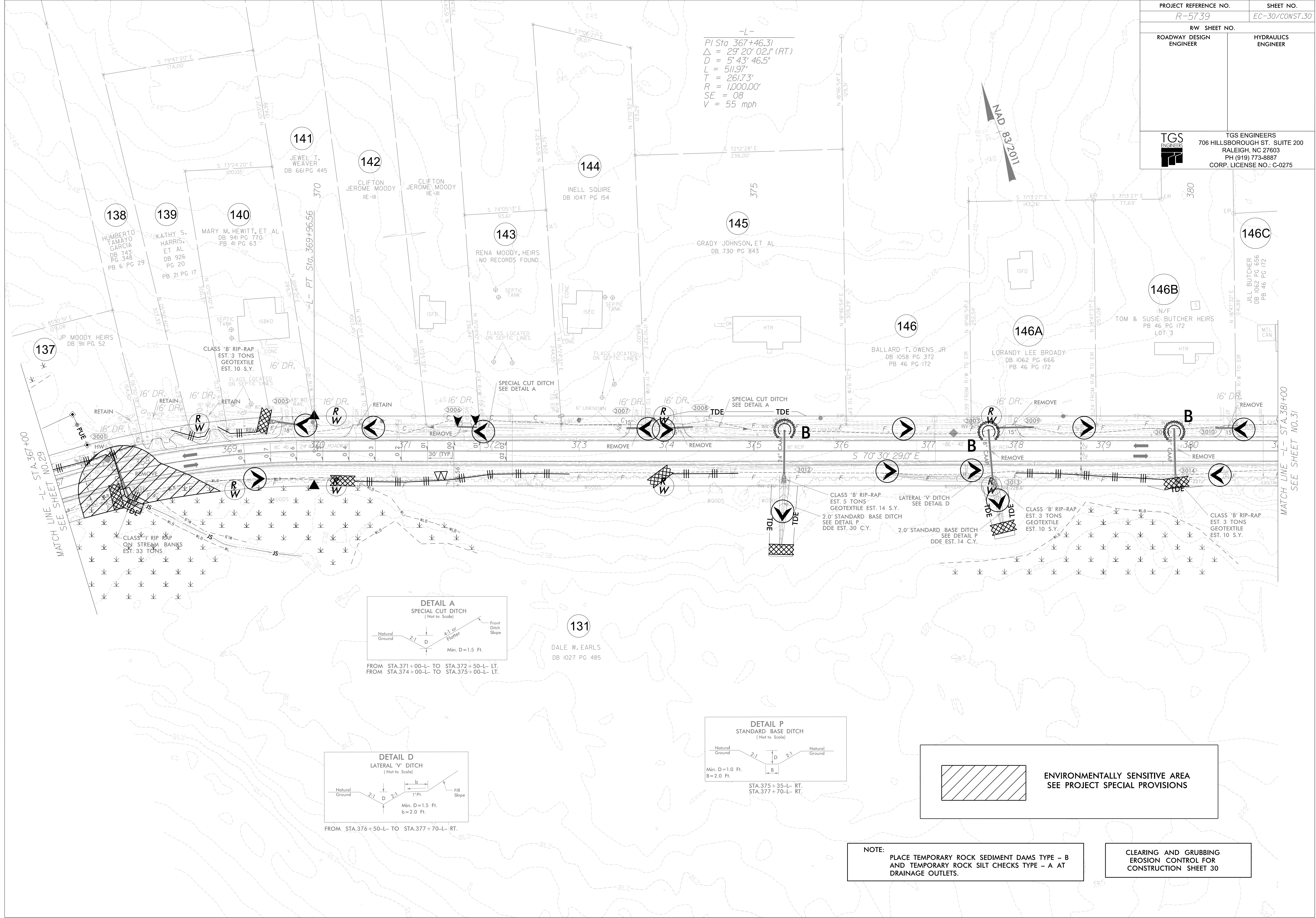
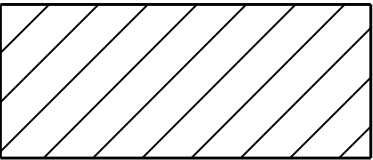


PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-30/CONST.30	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS 706 HILLSBOROUGH ST. SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

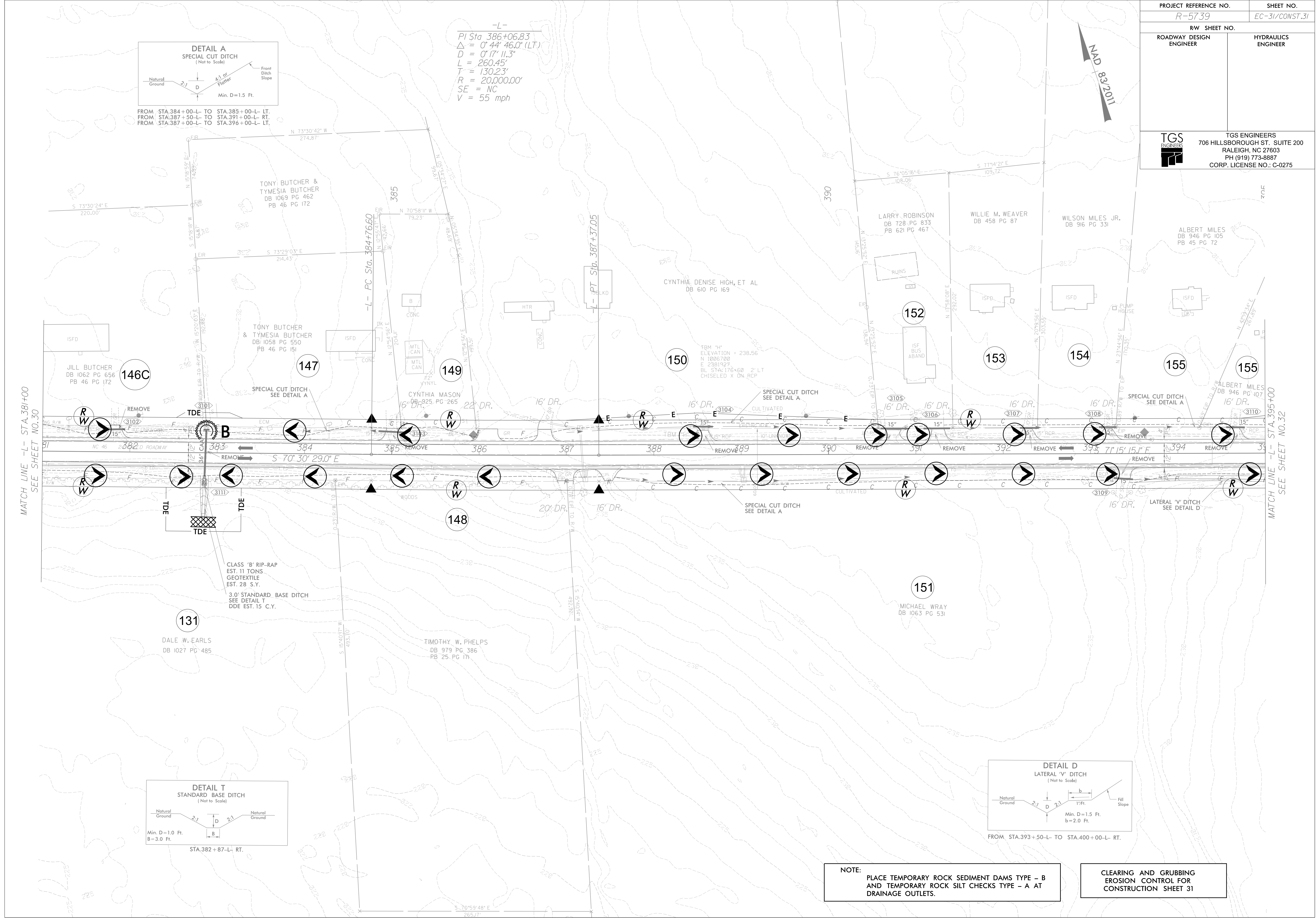


 ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

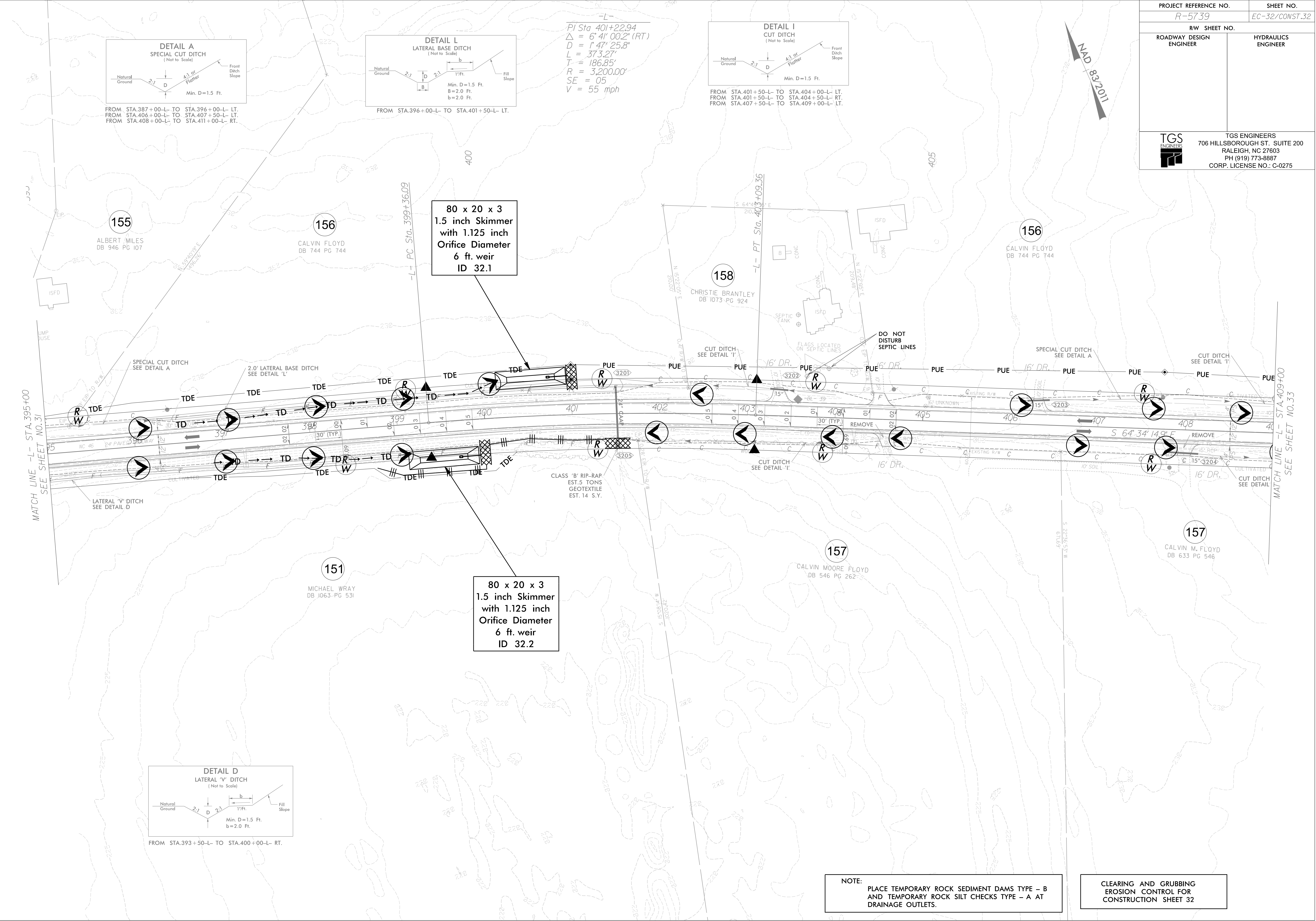
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 30

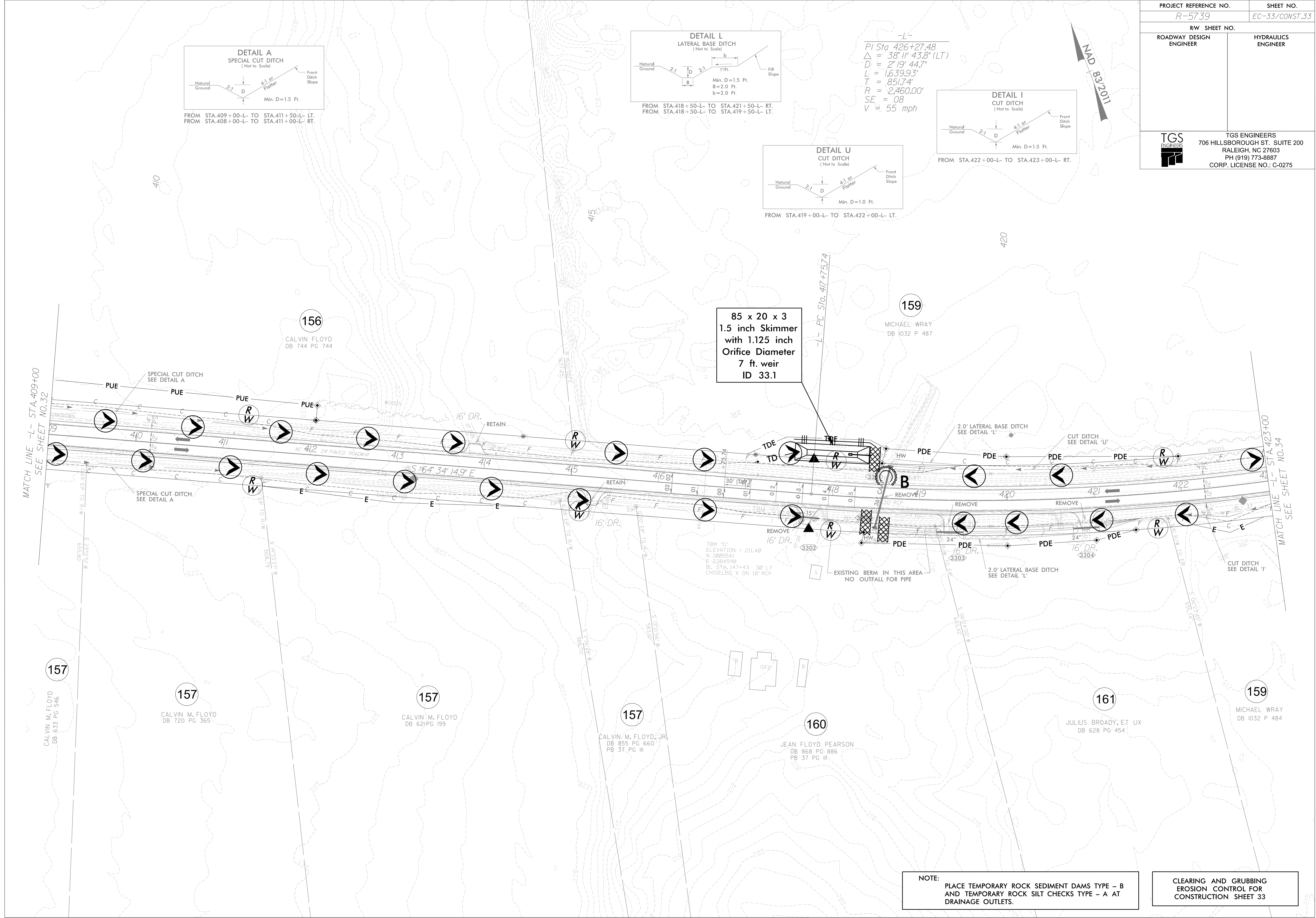
PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-31/CONST.31	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
TGS ENGINEERS 		TGS ENGINEERS 706 HILLSBOROUGH ST. SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-32/CONST.32	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS	
706 HILLSBOROUGH ST. SUITE 200		706 HILLSBOROUGH ST. SUITE 200	
RALEIGH, NC 27603		RALEIGH, NC 27603	
PH (919) 773-8887		PH (919) 773-8887	
CORP. LICENSE NO.: C-0275		CORP. LICENSE NO.: C-0275	

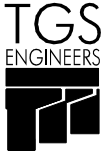


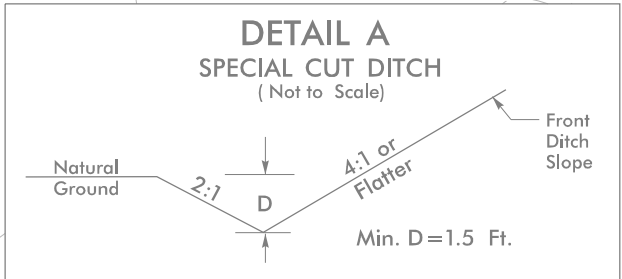
PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-33/CONST.33	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



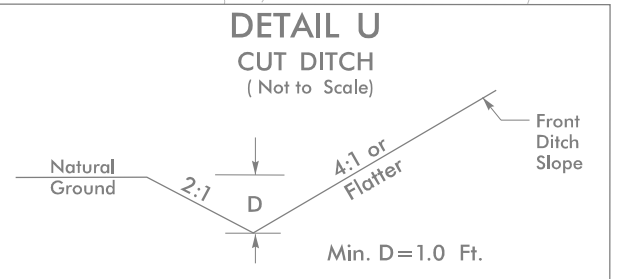
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 33

PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-34/CONST.34
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275

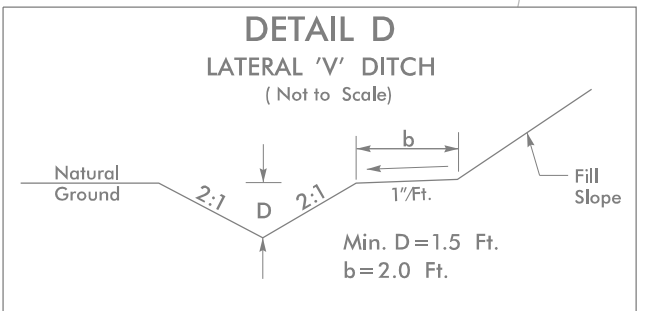


FROM STA.427+50-L- TO STA.429+50-L- RT.
FROM STA.427+50-L- TO STA.433+50-L- LT.
FROM STA.433+93-L- TO STA.439+00-L- LT.



FROM STA.424+50-L- TO STA.425+50-L- LT.

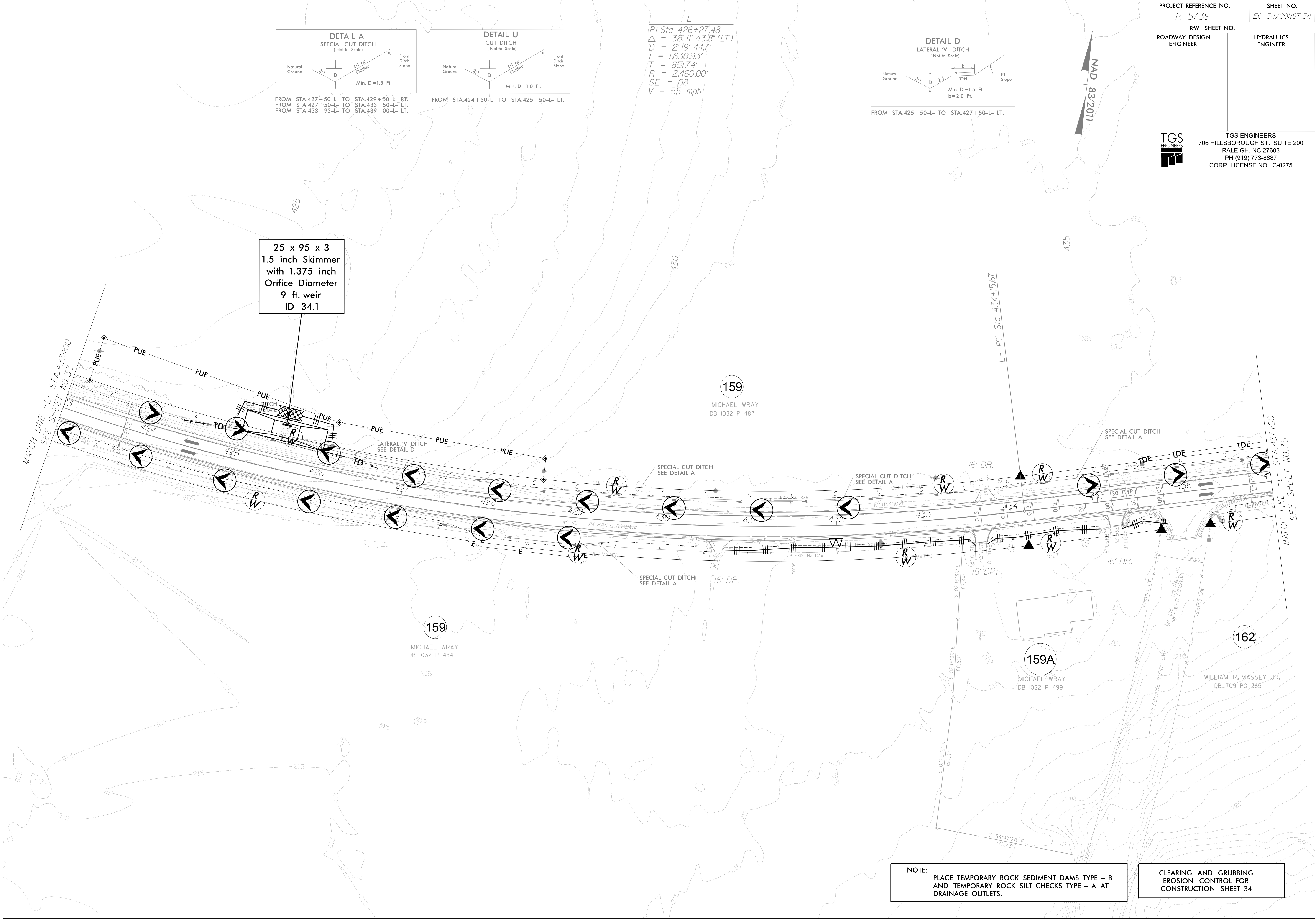
-L-
PI Sta 426+27.48
 $\Delta = 38^{\circ}11'43.8''$ (LT)
 $D = 2^{\circ}19'44.7''$
 $L = 1,639.93'$
 $T = 851.74'$
 $R = 2,460.00'$
 $SE = .08$
 $V = 55 \text{ mph}$



FROM STA.425+50-L- TO STA.427+50-L- LT.

NAD
83/2011

25 x 95 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 34.1



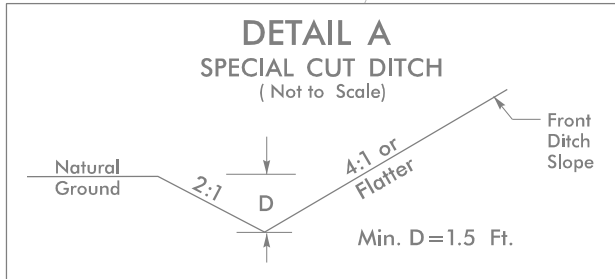
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 34

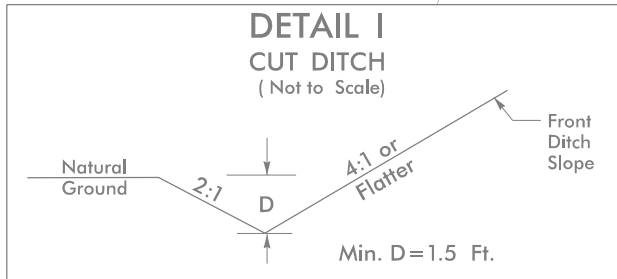
PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-35/CONST.35	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS	
706 HILLSBOROUGH ST. SUITE 200		706 HILLSBOROUGH ST. SUITE 200	
RALEIGH, NC 27603		RALEIGH, NC 27603	
PH (919) 773-8887		PH (919) 773-8887	
CORP. LICENSE NO.: C-0275		CORP. LICENSE NO.: C-0275	

PI Sta 439+12.93
 $\Delta = 0^{\circ}12'14.2''$ (LT)
 $D = 0^{\circ}34'22.6''$
 $L = 35.59'$
 $T = 17.80'$
 $R = 10,000.00'$
 $SE = NC$
 $V = 55$ mph

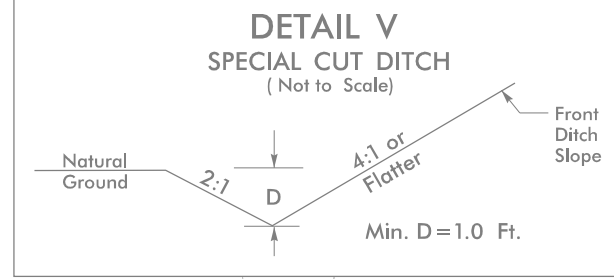
PI Sta 451+90.14
 $\Delta = 18^{\circ}45'19.8''$ (RT)
 $D = 5^{\circ}33'45.7''$
 $L = 337.17'$
 $T = 170.10'$
 $R = 1,030.00'$
 $SE = 08$
 $V = 55$ mph



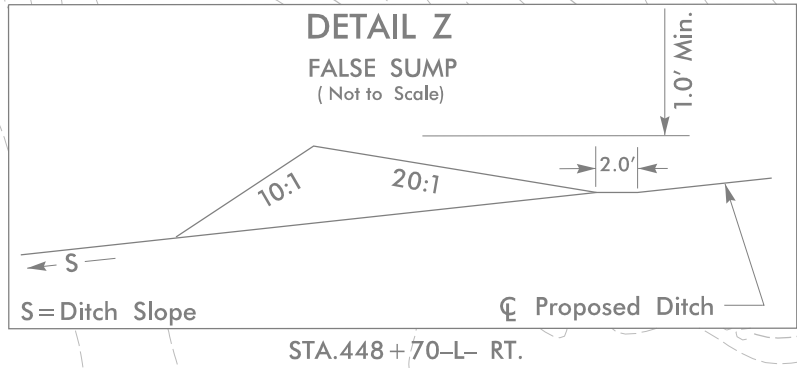
FROM STA.433+93-L- TO STA.439+00-L- LT.
FROM STA.444+50-L- TO STA.446+00-L- RT.



FROM STA.439+50-L- TO STA.441+50-L- RT.
FROM STA.443+50-L- TO STA.444+37-L- RT.



FROM STA.439+00-L- TO STA.443+50-L- LT.



2 @ 80 x 20 x 3
1.5 inch Skimmers
with 1.375 inch
Orifice Diameter
12 ft. weirs
ID 35.1

TEMP. SILT DITCH W/
STRAW MATTING
2' BASE
-L- 443+50 TO 450+00 LT

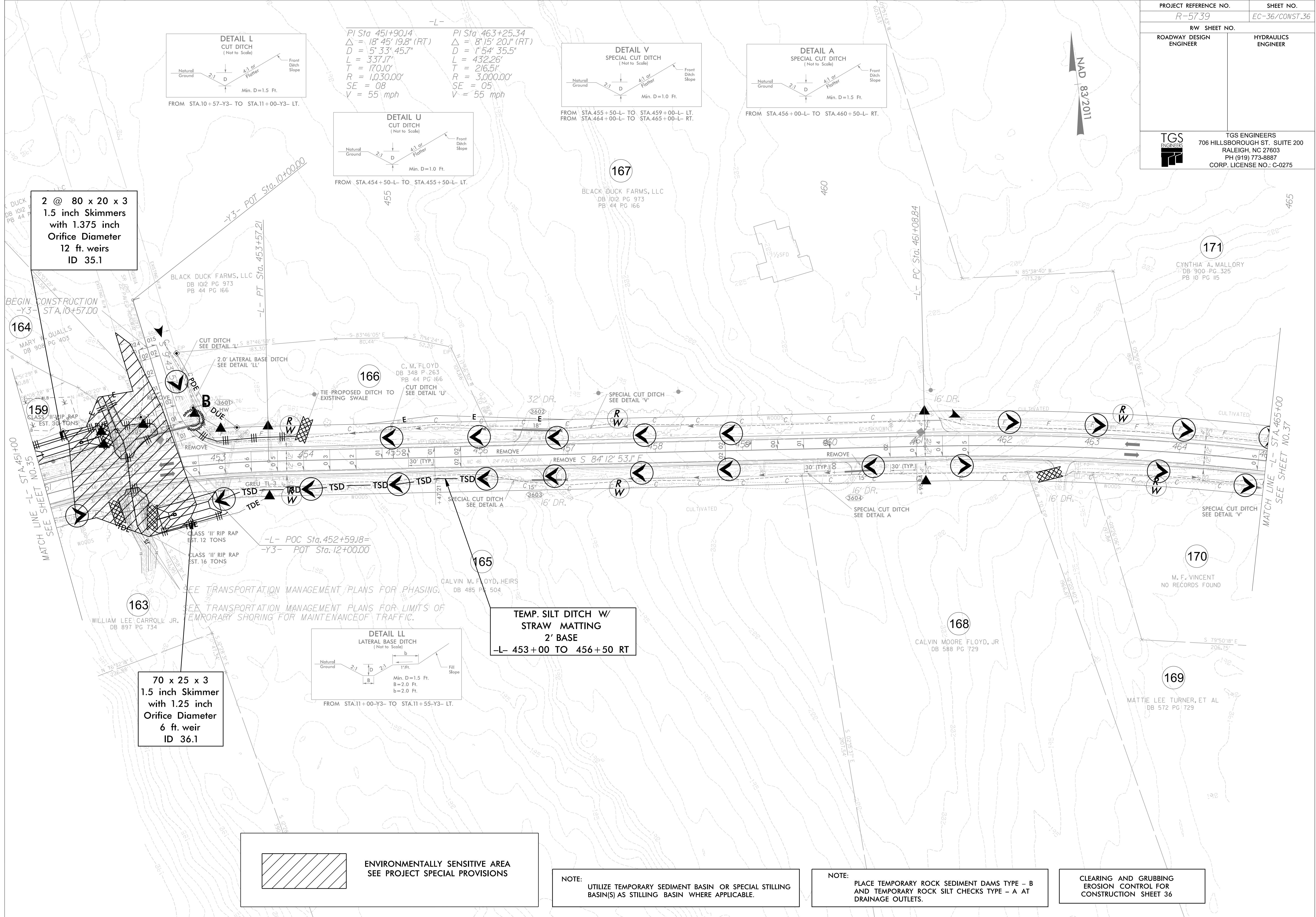
MATCH LINE -L- STA.437+00
SEE SHEET NO.34

MATCH LINE -L- STA.451+00
SEE SHEET NO.36

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 35

PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-36/CONST.36	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS	
706 HILLSBOROUGH ST. SUITE 200		706 HILLSBOROUGH ST. SUITE 200	
RALEIGH, NC 27603		RALEIGH, NC 27603	
PH (919) 773-8887		PH (919) 773-8887	
CORP. LICENSE NO.: C-0275		CORP. LICENSE NO.: C-0275	



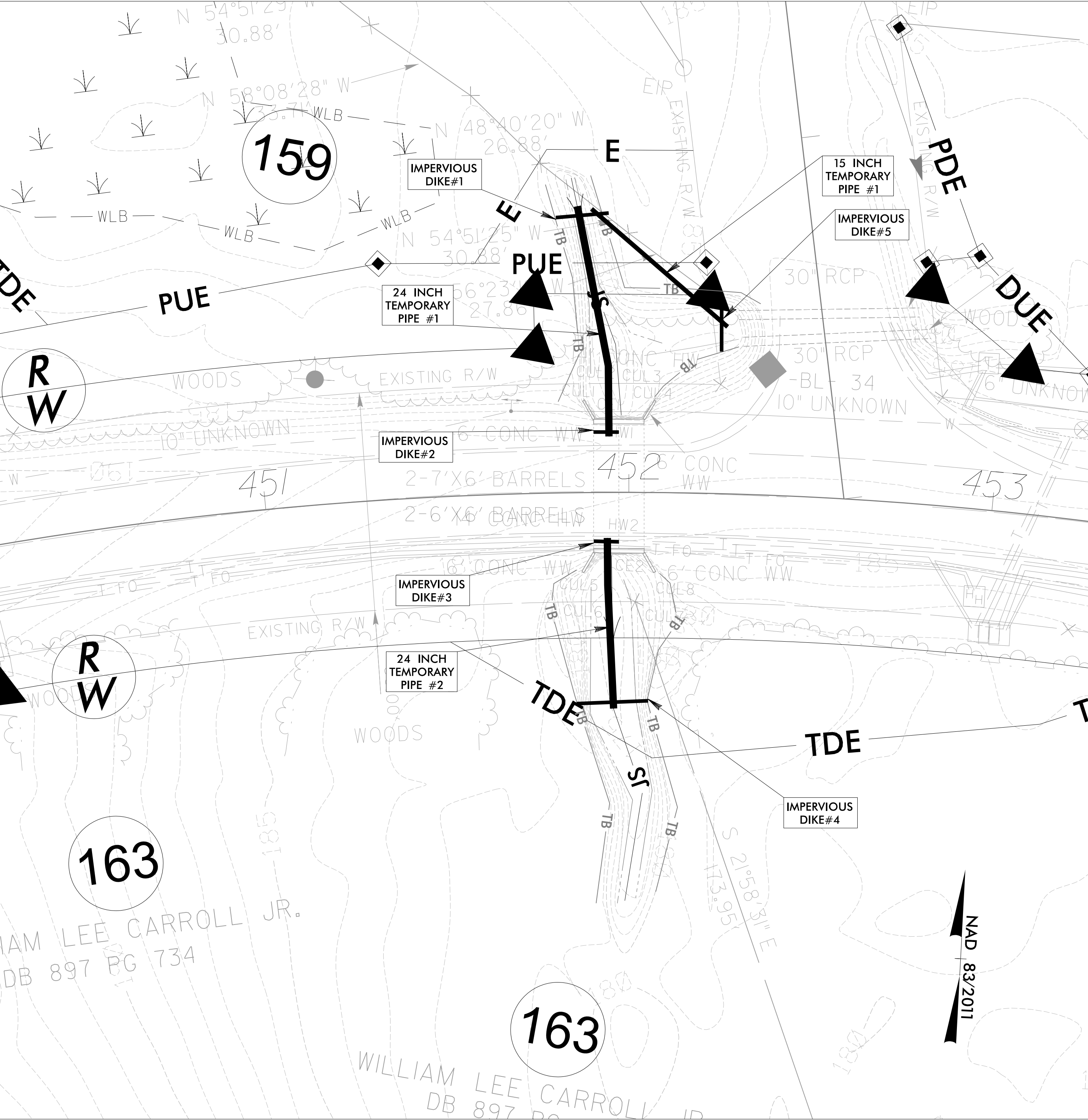
CULVERT CONSTRUCTION SEQUENCE STA. 451+96 -L-

1"=20'

PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-36A/CONST.36
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

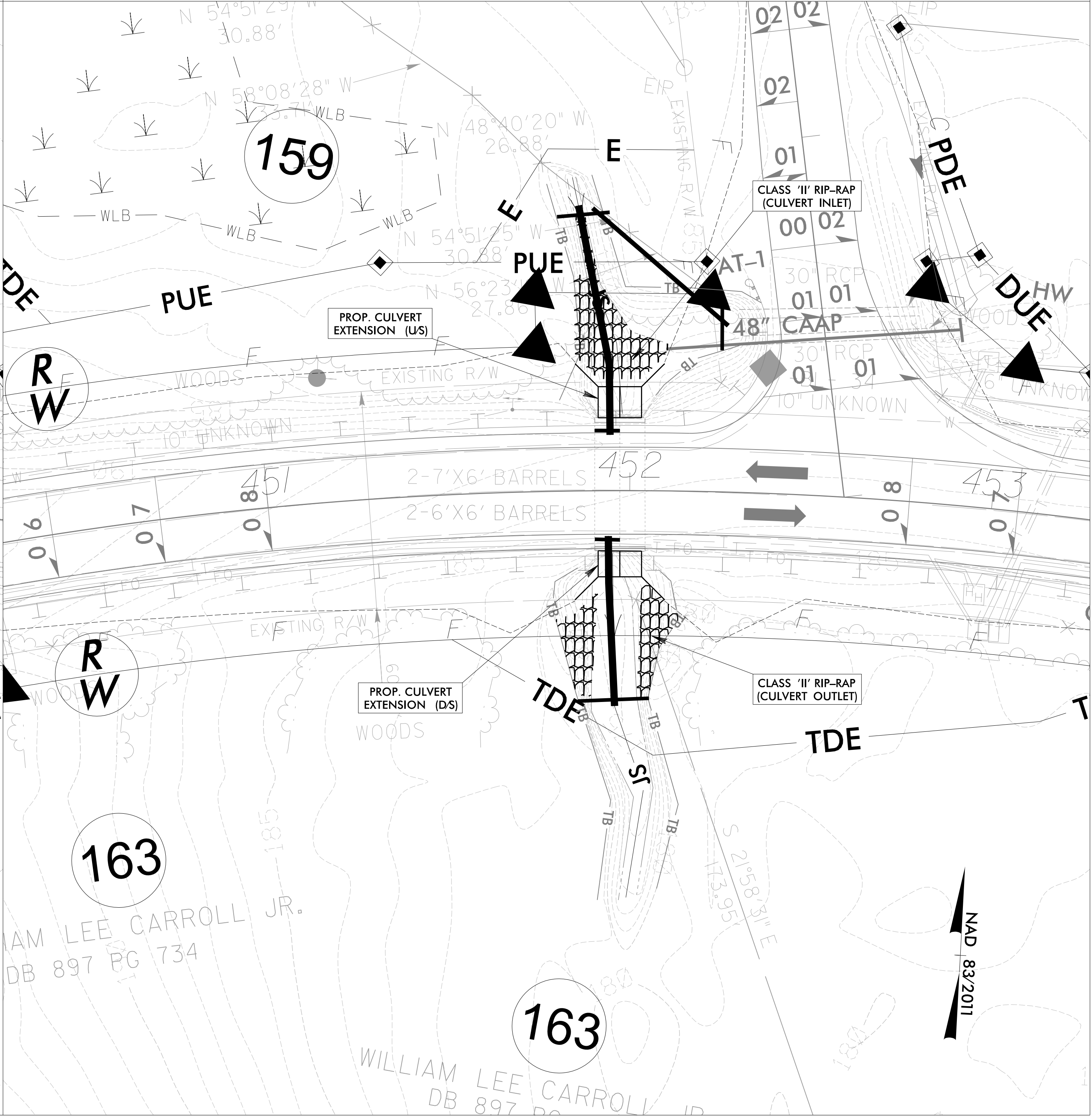
PHASE I

1. INSTALL IMPERVIOUS DIKES #1, #2, #3, #4, & #5, 24 INCH TEMPORARY PIPES #1 & #2, AND 15 INCH TEMPORARY PIPE #1.
2. DEWATER CONSTRUCTION AREA INTO SKIMMER BASINS #35.1, #36.1, AND SPECIAL STILLING BASIN(S) AS REQUIRED.
3. REMOVE EXISTING HEADWALLS AND WINGWALLS.



PHASE II

1. CONSTRUCT PROPOSED CULVERT EXTENSIONS, HEADWALLS, AND WINGWALLS.
2. INSTALL PROPOSED CLASS 'II' RIP-RAP AT CULVERT INLET AND OUTLET.
3. REMOVE IMPERVIOUS DIKES #1, #2, #3, #4, & #5, 24 INCH TEMPORARY PIPES #1 & #2, AND 15 INCH TEMPORARY PIPE #1.



**DETAIL A
SPECIAL CUT DITCH
(Not to Scale)**

Natural Ground 2:1 D 4:1 or Flatter Front Ditch Slope
Min. D=1.5 Ft.

**DETAIL V
SPECIAL CUT DITCH
(Not to Scale)**

Natural Ground 2:1 D 4:1 or Flatter Front Ditch Slope
Min. D=1.0 Ft.

FROM STA. 472+00-L TO STA. 473+00-L- RT.

FROM STA. 473+50-L TO STA. 476+00-L- LT.

PI Sta 463+25.34
 $\Delta = 8^{\circ}15'20.1''$ (RT)
 $D = 154'35.5''$
 $L = 432.26'$
 $T = 216.51'$
 $R = 3,000.00'$
 $SE = 05$
 $V = 55$ mph

PI Sta 477+04.57
 $\Delta = 0^{\circ}08'53.9''$ (RT)
 $D = 0'22'55.1''$
 $L = 38.83'$
 $T = 19.41'$
 $R = 15,000.00'$
 $SE = NC$
 $V = 55$ mph

170 M. F. VINCENT
NO RECORDS FOUND

169 MATTIE LEE TURNER, ET AL
DB 572 PG 729

171 CYNTHIA A. MALLORY
DB 900 PG 325
PB 10 PG 115

172 MICHAEL WRAY
DB 1076 PG 119

173 LAWRENCE J. MOODY, ET AL
DB 593 PG 547
PB 10 PG 125

174 ALICE SQUIRE WILKINS
DB 676 PG 259
PB 13 PG 73

175 LAWRENCE J. MOODY
DB 659 PG 908

176 KELVIN LAMONT MILLS, ET UX
DB 742 PG 149
PB 20 PG 147

177 LAWRENCE J. MOODY
DB 733 PG 667

178A JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

178 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

179 GREGORY JOHNSON
DB 655 PG 658

180 WILLIE CLINTON VINSON, ET AL
DB 636 PG 722
PB 20 PG 147

181 NORTHAMPTON REALTY & INSURANCE COMPANY
DB 627 PG 332
PB 20 PG 147

182 KELVIN LAMONT MILLS, ET UX
DB 742 PG 149
PB 20 PG 147

183 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

184 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

185 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

186 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

187 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

188 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

189 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

190 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

191 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

192 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

193 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

194 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

195 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

196 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

197 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

198 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

199 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

200 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

201 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

202 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

203 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

204 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

205 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

206 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

207 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

208 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

209 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

210 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

211 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

212 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

213 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

214 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

215 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

216 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

217 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

218 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

219 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

220 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

221 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

222 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

223 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

224 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

225 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

226 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

227 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

228 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

229 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

230 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

231 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

232 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

233 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

234 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

235 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

236 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

237 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

238 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

239 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

240 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

241 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

242 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

243 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

244 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

245 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

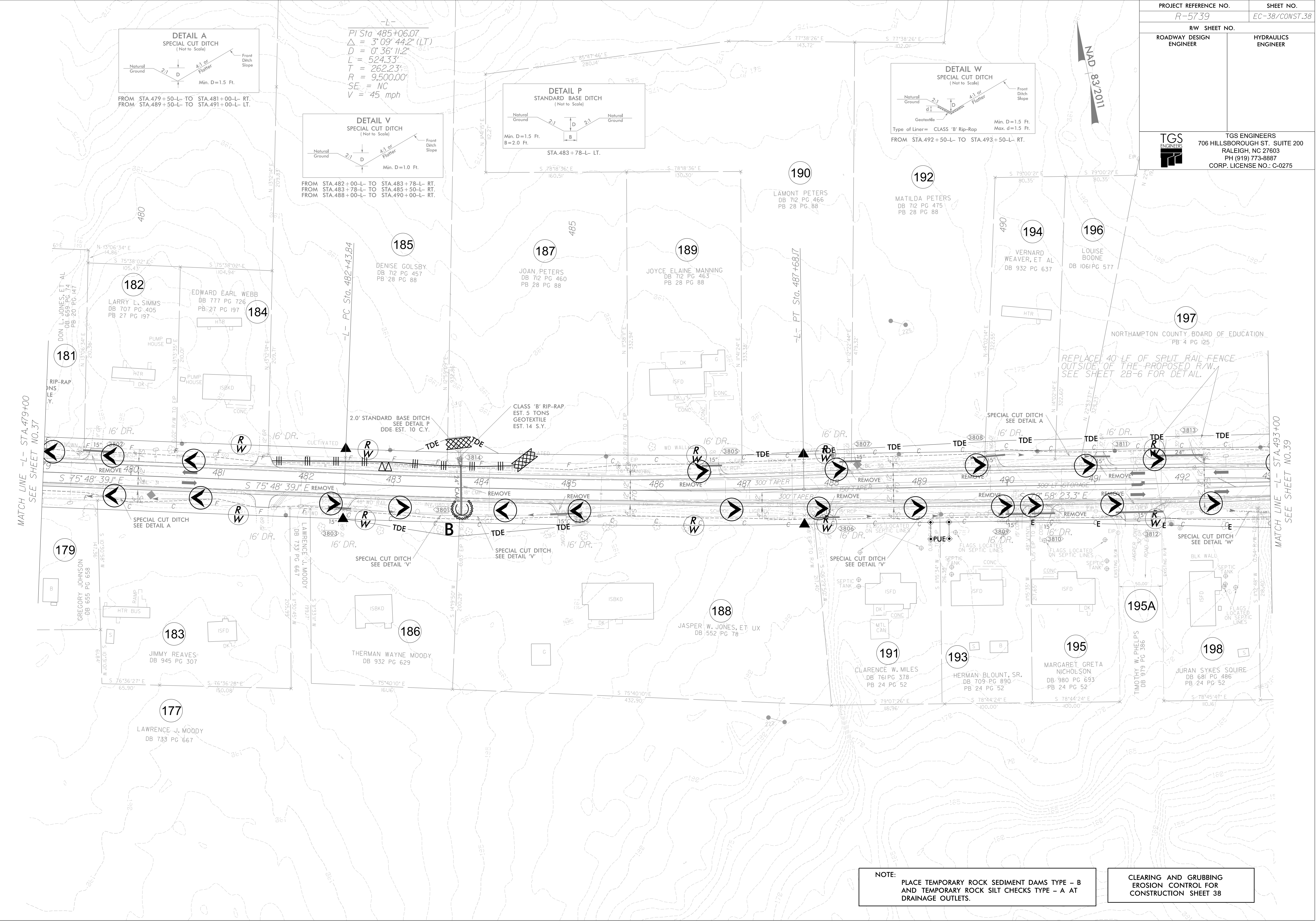
246 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

247 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

248 JAHMEL AHAMED DIMSON
DB 976 PG 697
PB 20 PG 147

24

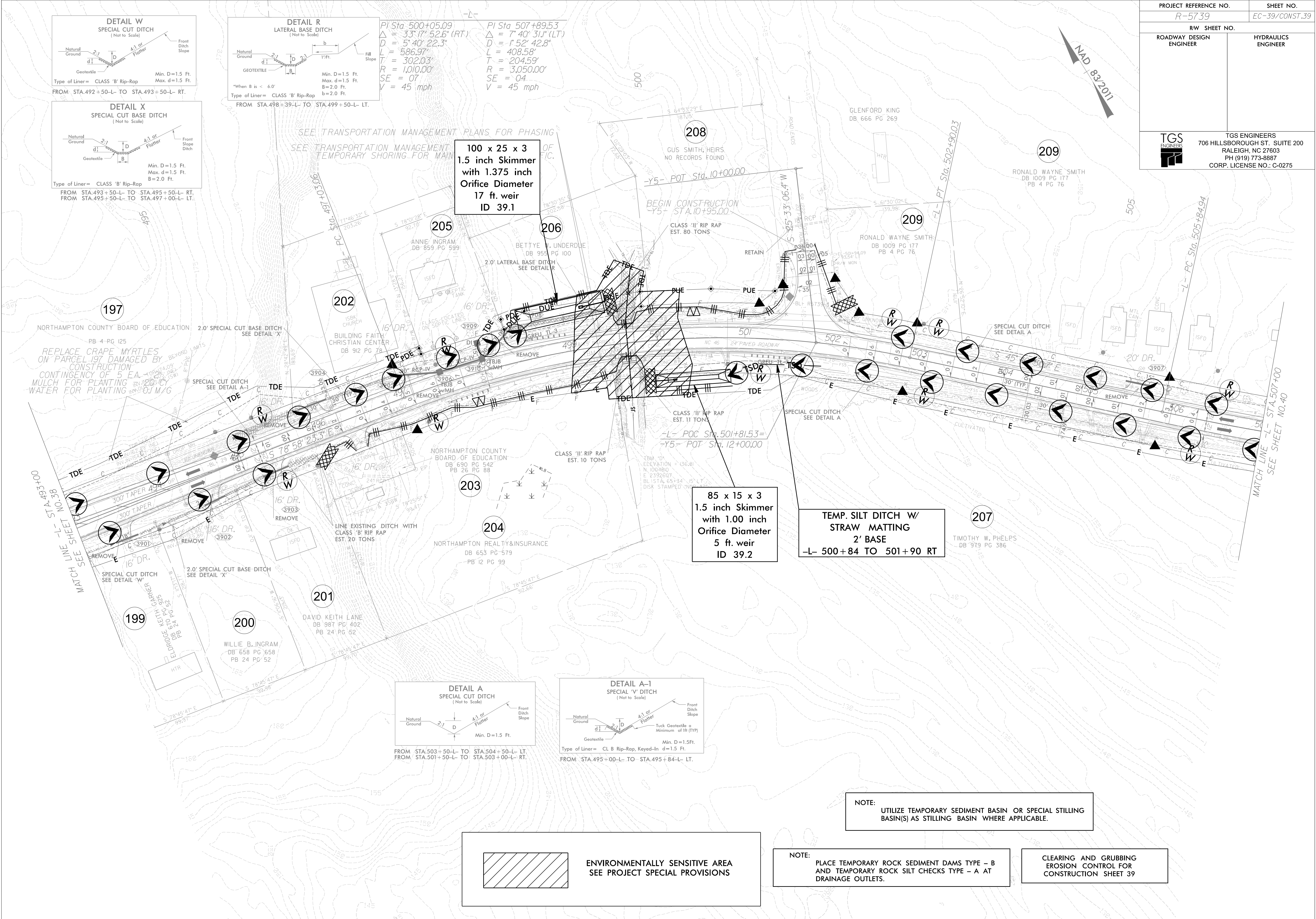
PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-38/CONST.38
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275



NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 38

PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-39/CONST.39	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		TGS ENGINEERS	
		706 HILLSBOROUGH ST., SUITE 200	
		RALEIGH, NC 27603	
		PH (919) 773-8887	
		CORP. LICENSE NO.: C-0275	



CULVERT CONSTRUCTION SEQUENCE STA. 499 + 66 -L-

1" = 20'

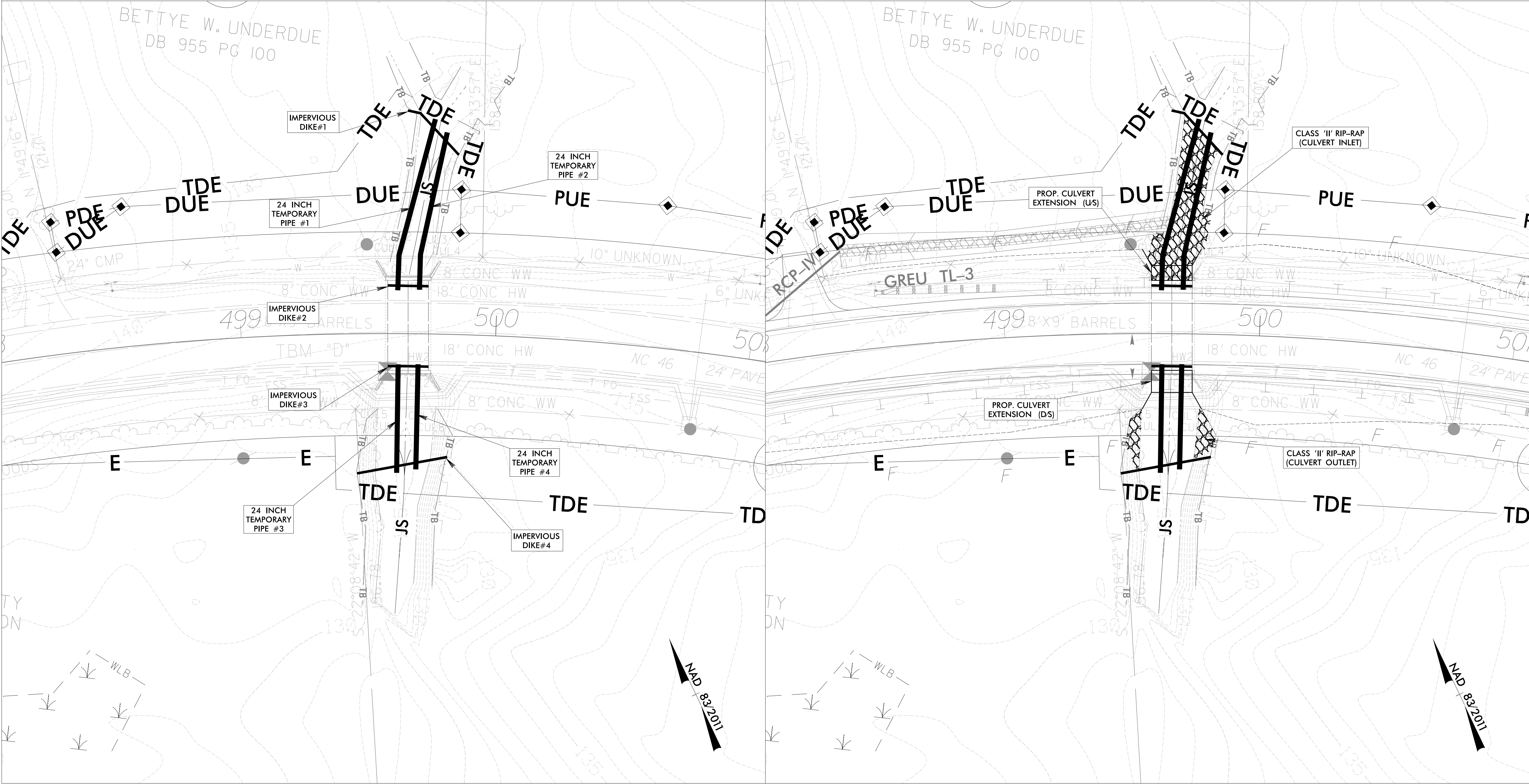
PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-39A/CONST.39
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PHASE I

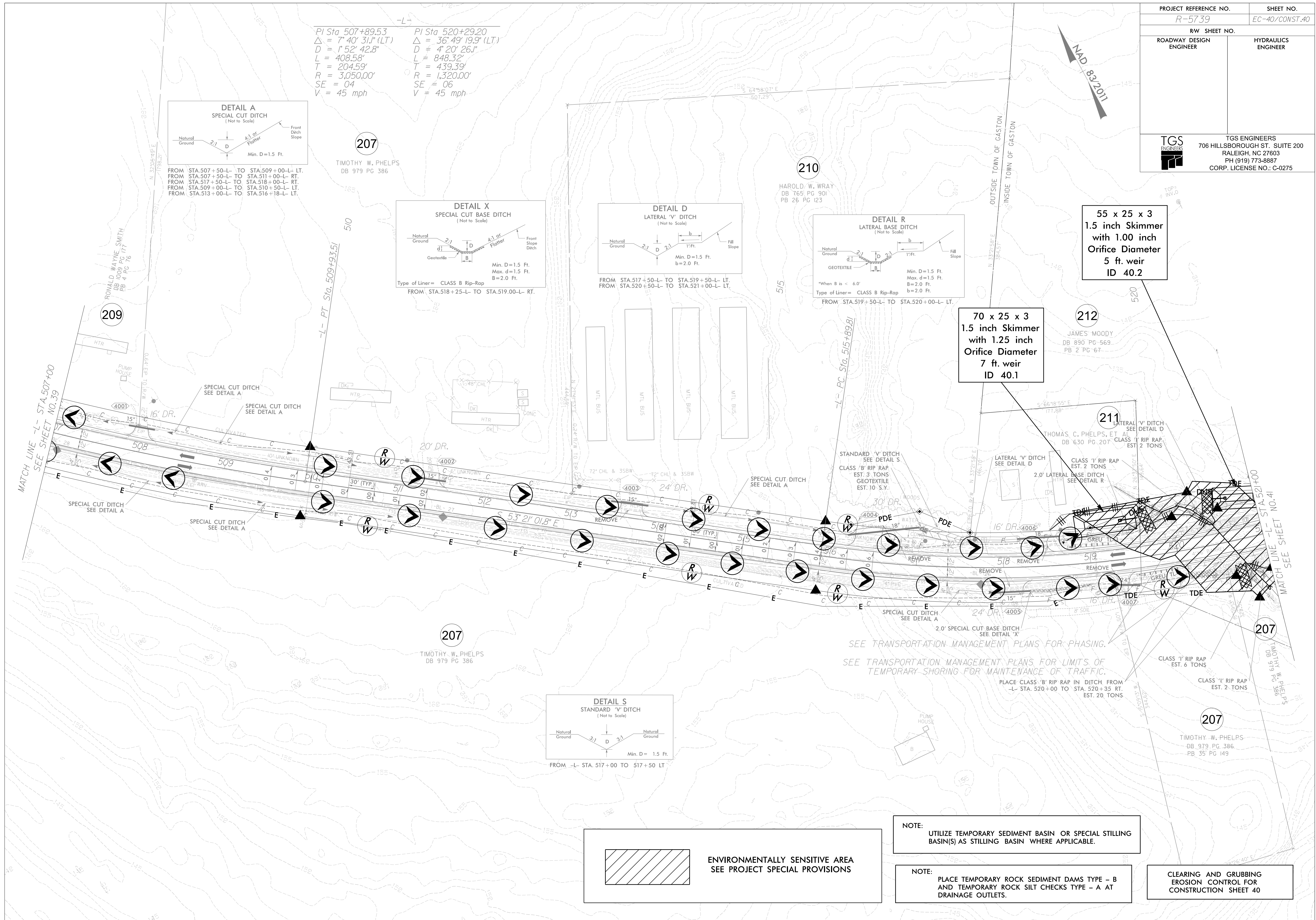
1. INSTALL IMPERVIOUS DIKES #1, #2, #3, & #4 AND 24 INCH TEMPORARY PIPES #1, #2, #3, & #4.
2. DEWATER CONSTRUCTION AREA INTO SKIMMER BASINS #39.1, #39.2, AND SPECIAL STILLING BASIN(S) AS REQUIRED.
3. REMOVE EXISTING HEADWALLS AND WINGWALLS.

PHASE II

1. CONSTRUCT PROPOSED CULVERT EXTENSIONS, HEADWALLS, AND WINGWALLS.
2. INSTALL PROPOSED CLASS 'II' RIP-RAP AT CULVERT INLET AND OUTLET.
3. REMOVE IMPERVIOUS DIKES #1, #2, #3, & #4, AND 24 INCH TEMPORARY PIPES #1, #2, #3, & #4.



PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-40/CONST.40
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 706 HILLSBOROUGH ST. SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



CULVERT CONSTRUCTION SEQUENCE STA. 520+60 -L-

1"=20'

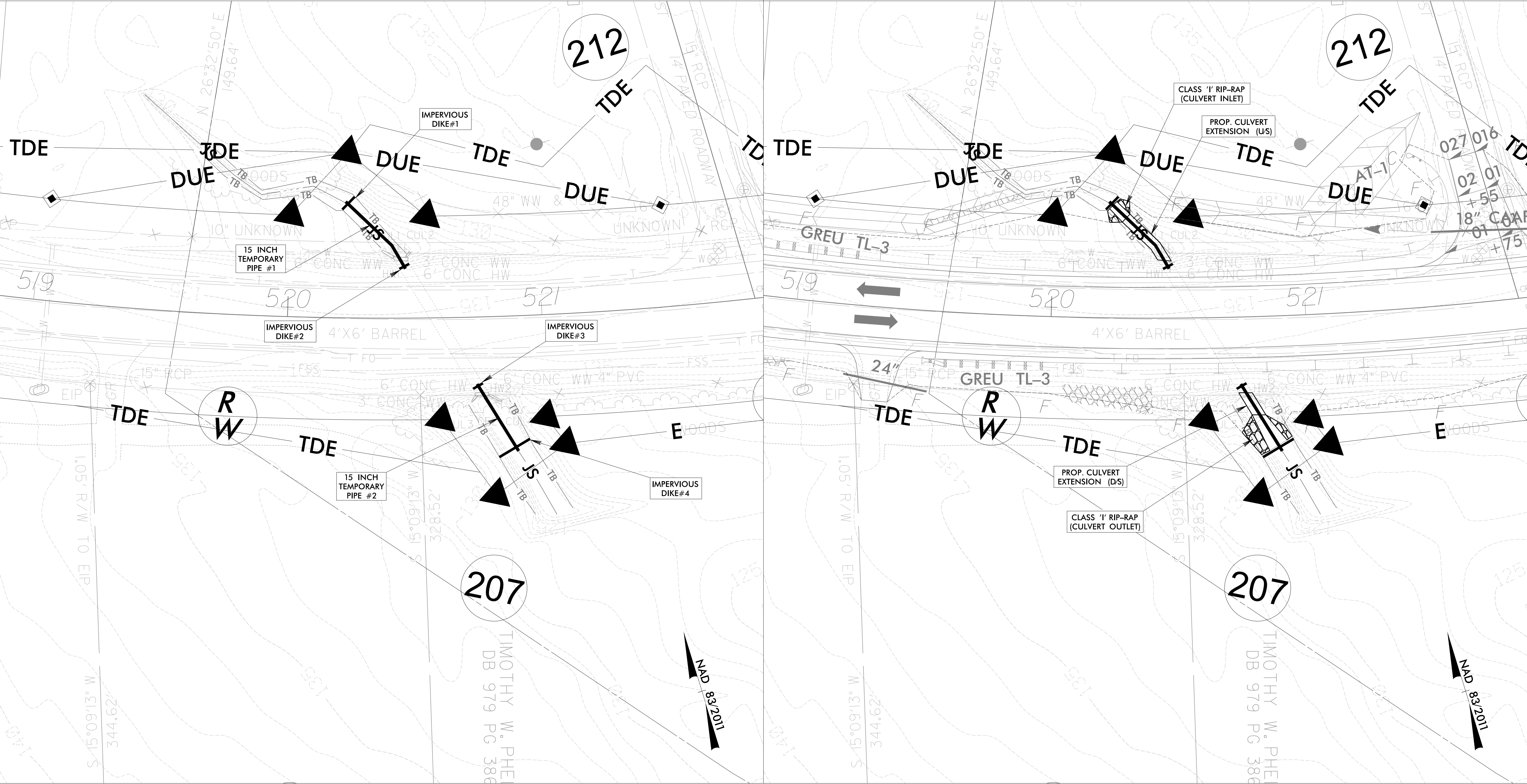
PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-40A/CONST.40
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PHASE I

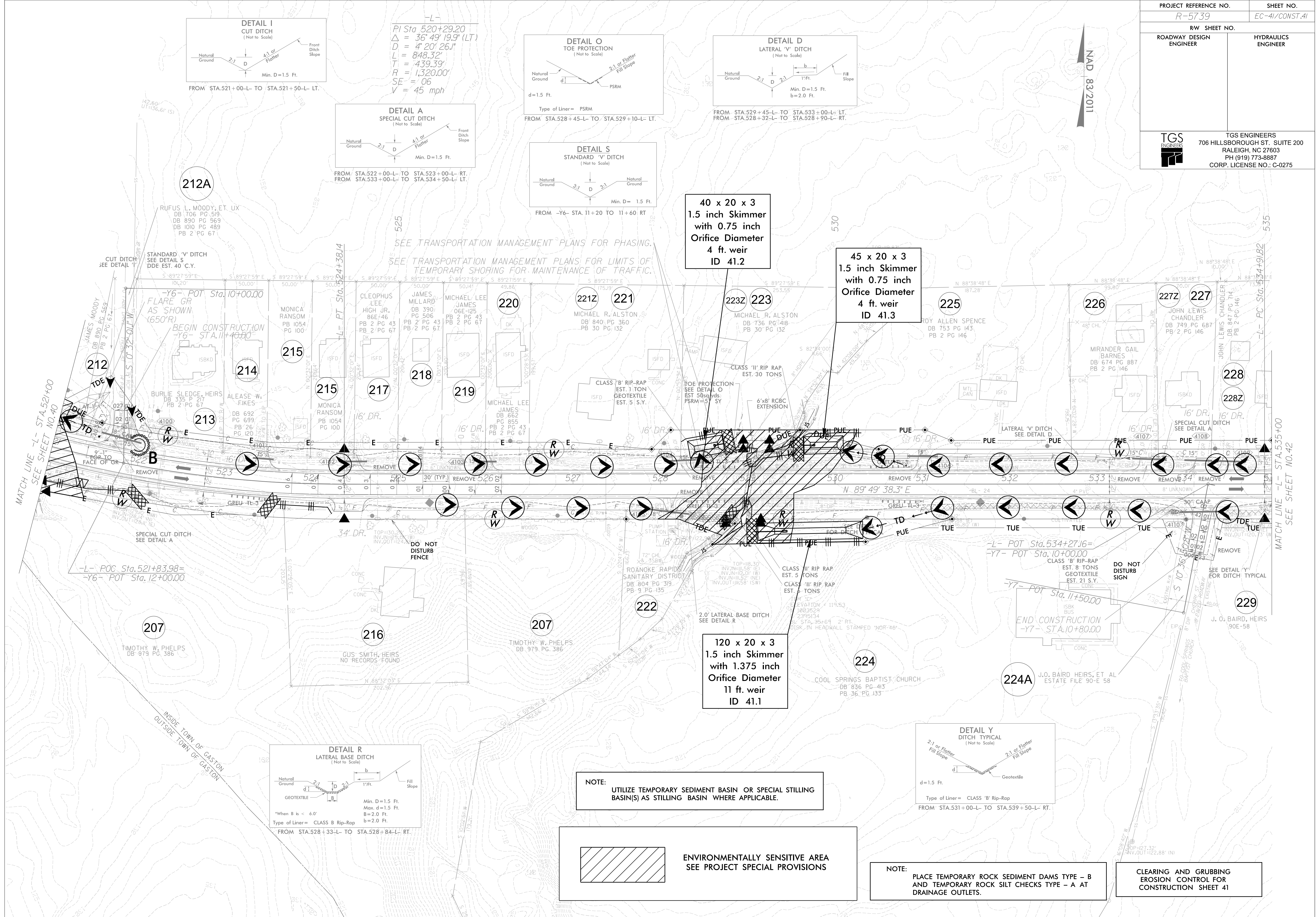
1. INSTALL IMPERVIOUS DIKES #1, #2, #3, & #4 AND 15 INCH TEMPORARY PIPES #1 & #2.
2. DEWATER CONSTRUCTION AREA INTO SKIMMER BASINS #40.1, #40.2, AND SPECIAL STILLING BASIN(S) AS REQUIRED.
3. REMOVE EXISTING HEADWALLS AND WINGWALLS.

PHASE II

1. CONSTRUCT PROPOSED CULVERT EXTENSIONS, HEADWALLS, AND WINGWALLS.
2. INSTALL PROPOSED CLASS 'I' RIP-RAP AT CULVERT INLET AND OUTLET.
3. REMOVE IMPERVIOUS DIKES #1, #2, #3, & #4, AND 15 INCH TEMPORARY PIPES #1 & #2.



PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-41/CONST.41	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS	
706 HILLSBOROUGH ST. SUITE 200		706 HILLSBOROUGH ST. SUITE 200	
RALEIGH, NC 27603		RALEIGH, NC 27603	
PH (919) 773-8887		PH (919) 773-8887	
CORP. LICENSE NO.:		C-0275	



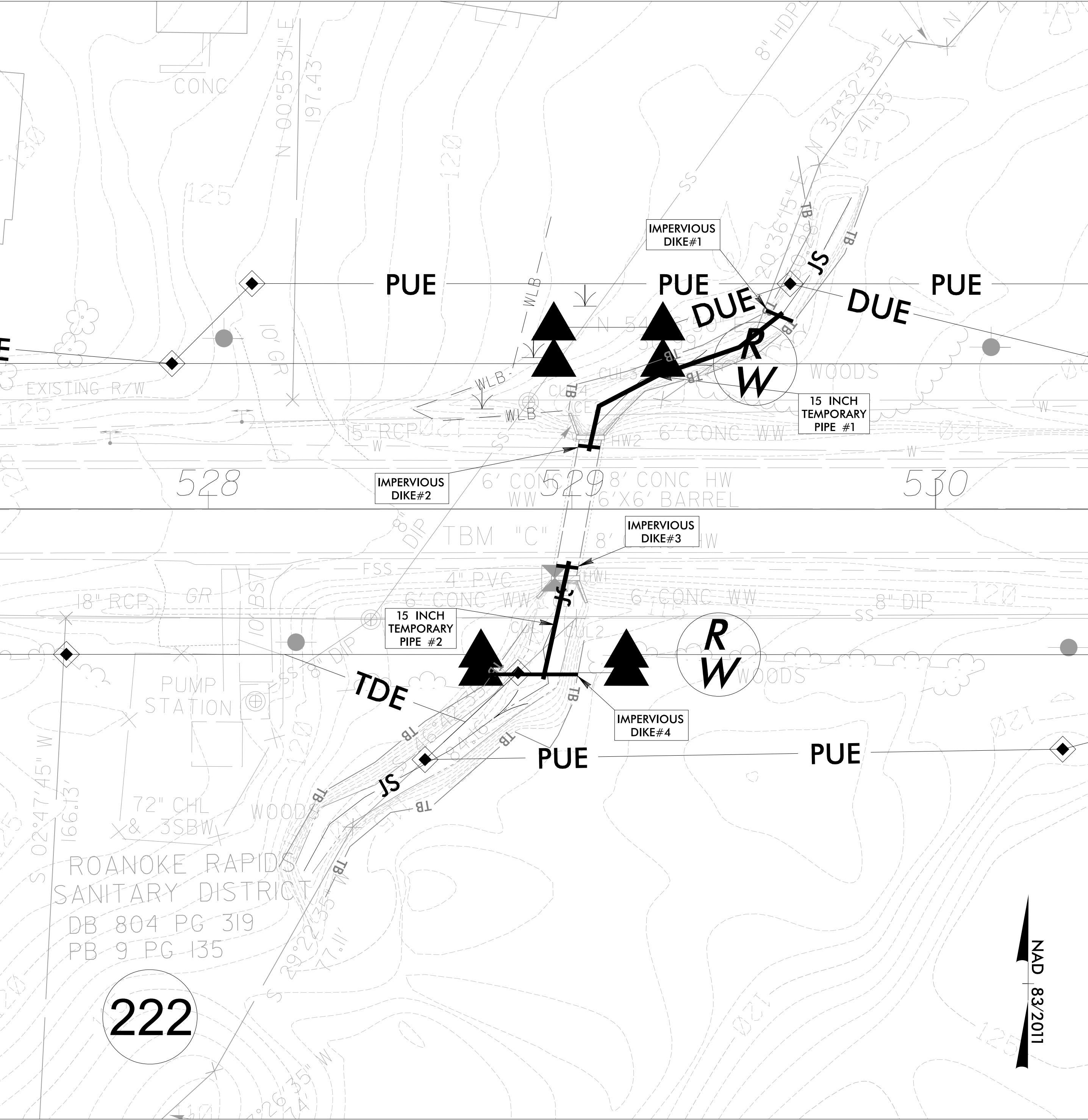
CULVERT CONSTRUCTION SEQUENCE STA. 529+02 -L-

1"=20'

PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-41A/CONST.41
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

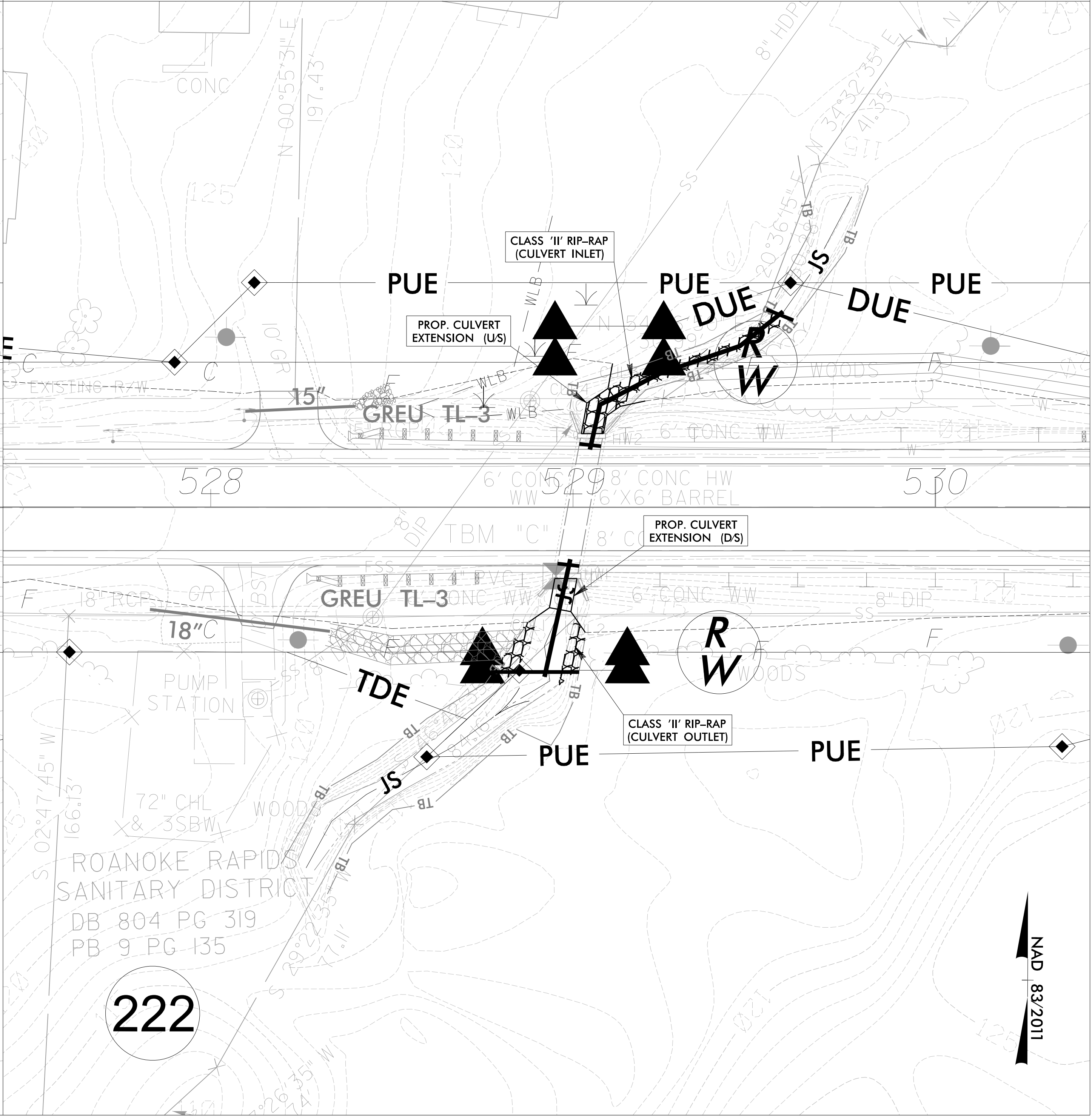
PHASE I

1. INSTALL IMPERVIOUS DIKES #1, #2, #3, & #4 AND 15 INCH TEMPORARY PIPES #1 & #2.
2. DEWATER CONSTRUCTION AREA INTO SKIMMER BASINS #41.1, #41.2, & 41.3 AND SPECIAL STILLING BASIN(S) AS REQUIRED.
3. REMOVE EXISTING HEADWALLS AND WINGWALLS.

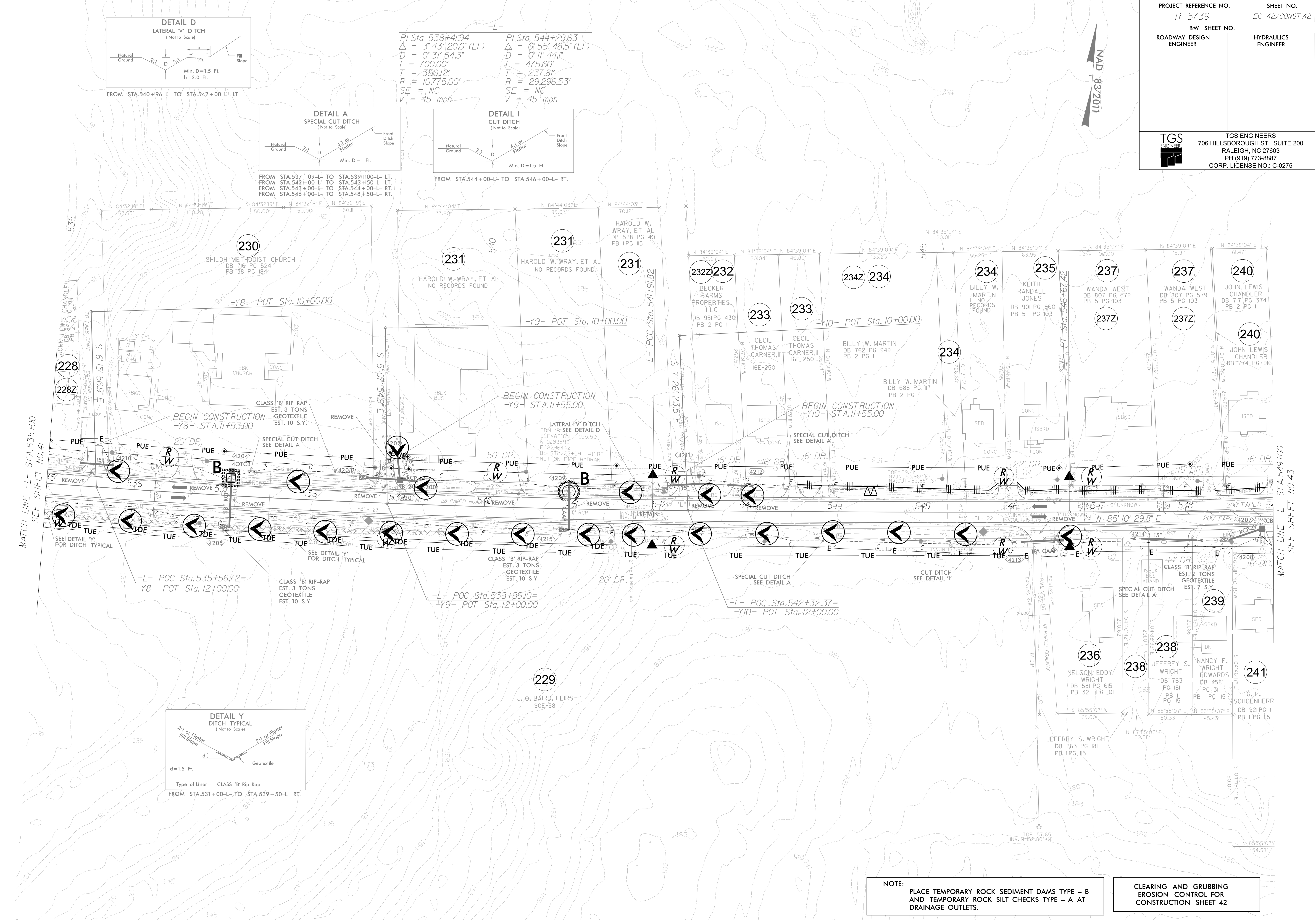


PHASE II

1. CONSTRUCT PROPOSED CULVERT EXTENSIONS, HEADWALLS, AND WINGWALLS.
2. INSTALL PROPOSED CLASS 'II' RIP-RAP AT CULVERT INLET AND OUTLET.
3. REMOVE IMPERVIOUS DIKES #1, #2, #3, & #4, AND 15 INCH TEMPORARY PIPES #1 & #2.



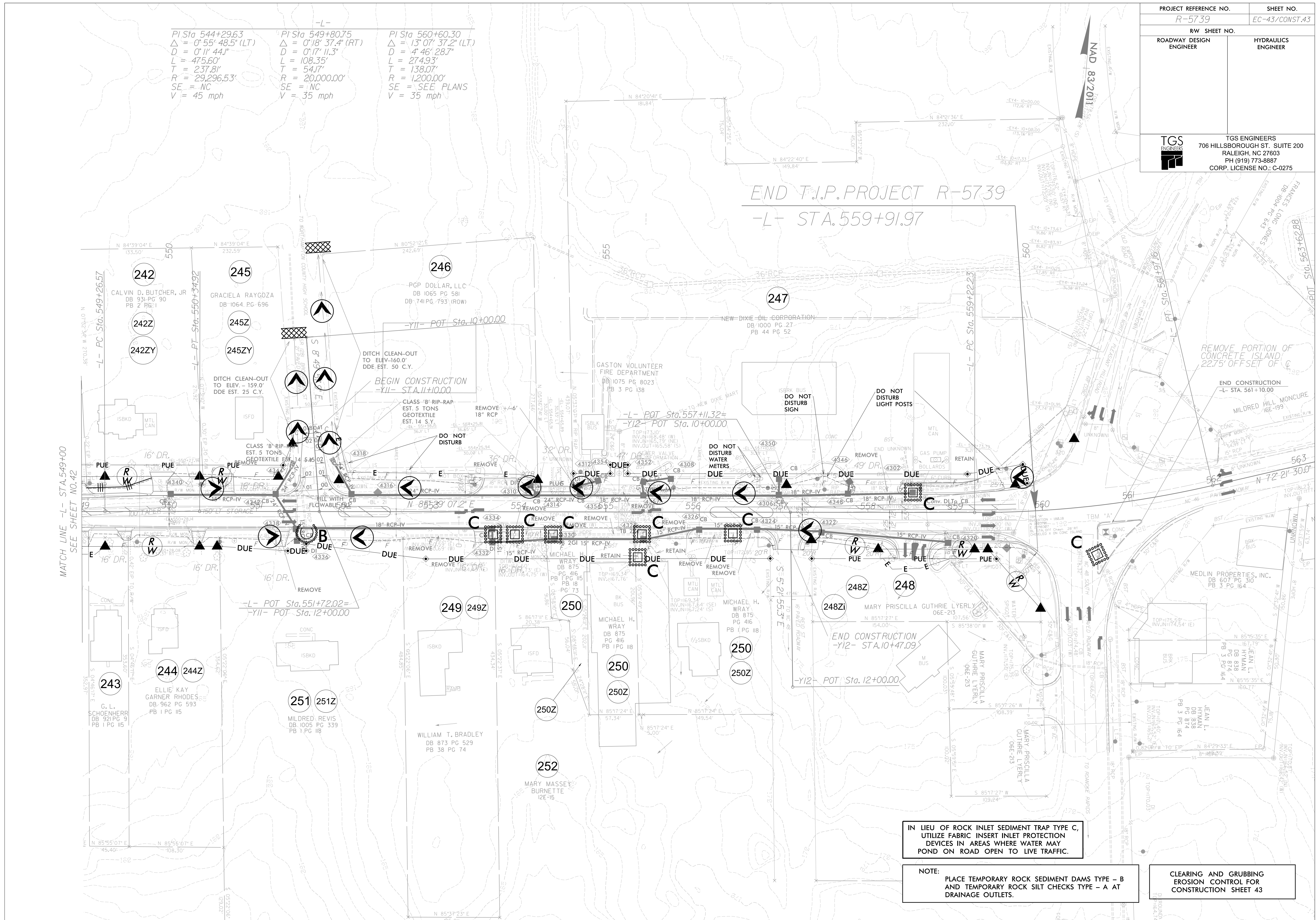
PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-42/CONST.42
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS
706 HILLSBOROUGH ST., SUITE 200		706 HILLSBOROUGH ST., SUITE 200
RALEIGH, NC 27603		RALEIGH, NC 27603
PH (919) 773-8887		PH (919) 773-8887
CORP. LICENSE NO.: C-0275		CORP. LICENSE NO.: C-0275



NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 42

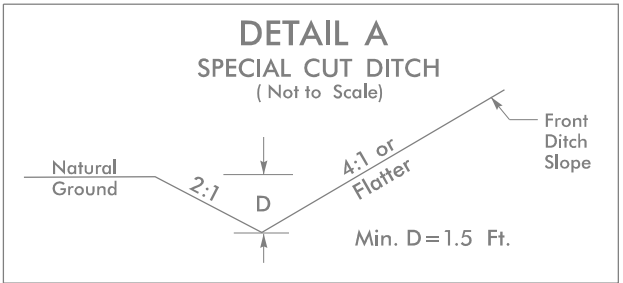
PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-43/CONST.43
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



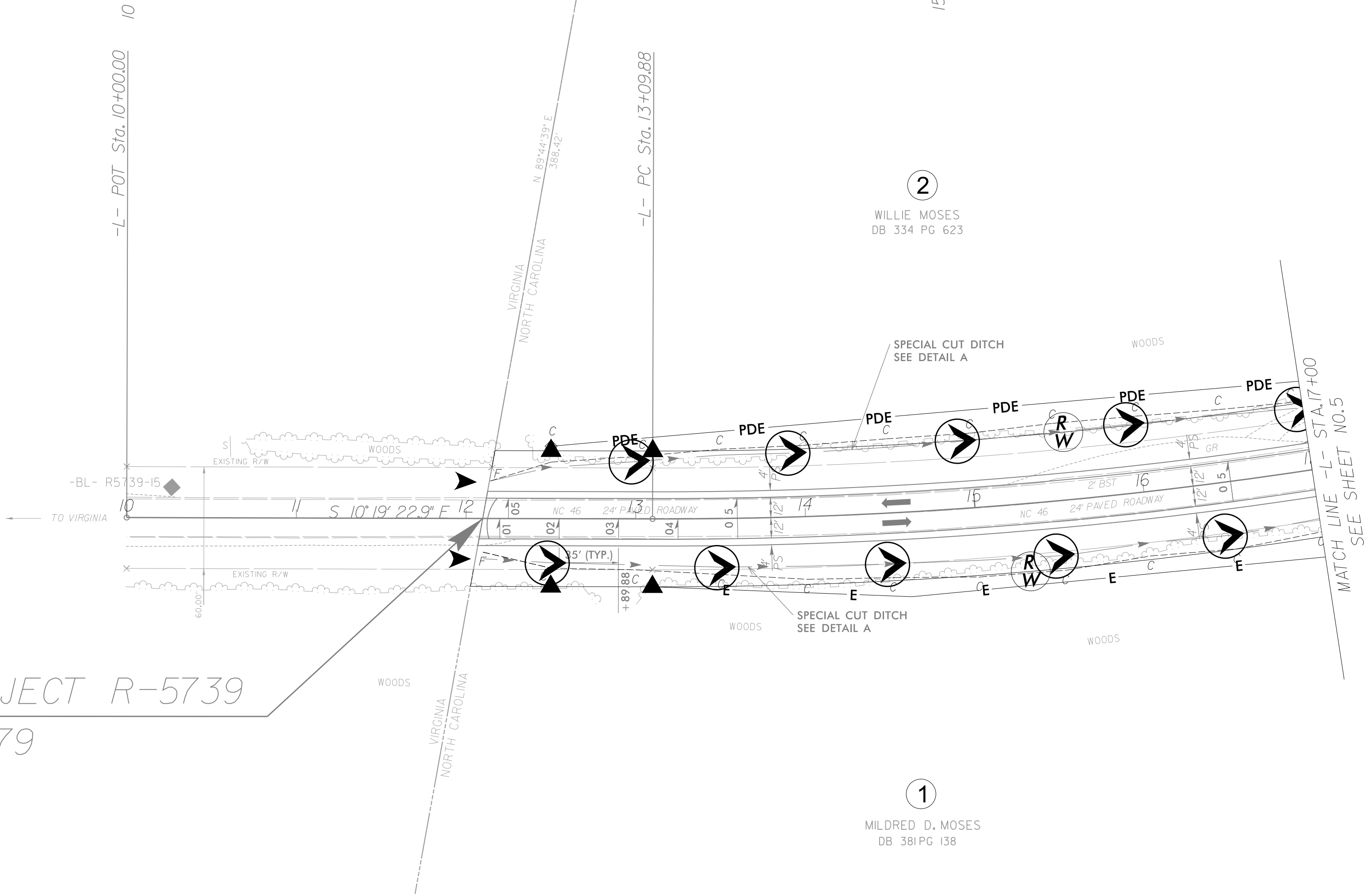
PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-44/CONST.4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275

-L-
PI Sta. 23+30.62
 $\Delta = 43^{\circ}56'36.9"$ (LT)
 $D = 2^{\circ}15'52.8"$
 $L = 1,940.41'$
 $T = 1,020.74'$
 $R = 2,530.00'$
 $SE = 05$
 $V = 55 \text{ mph}$

NAD 83/2011

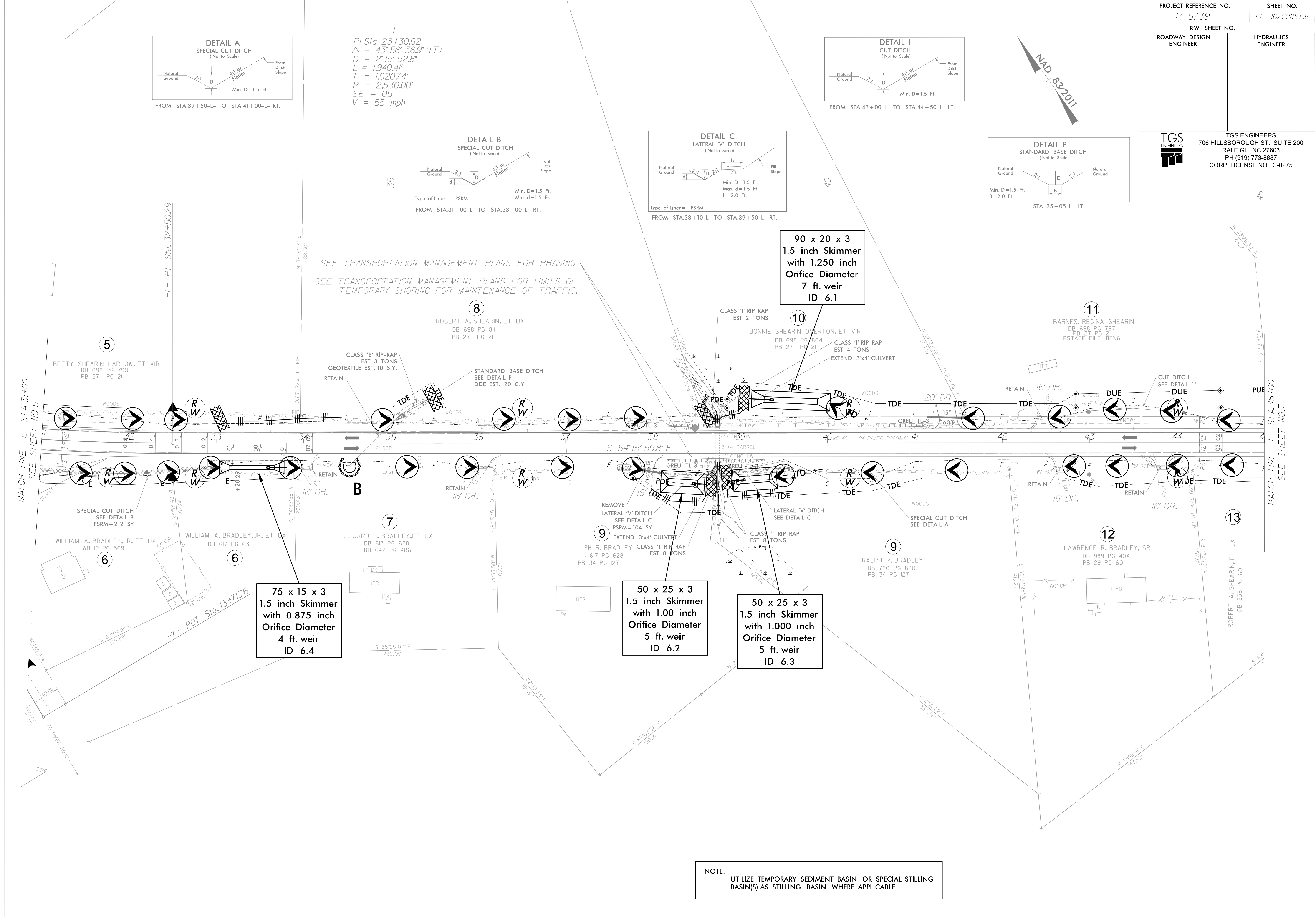


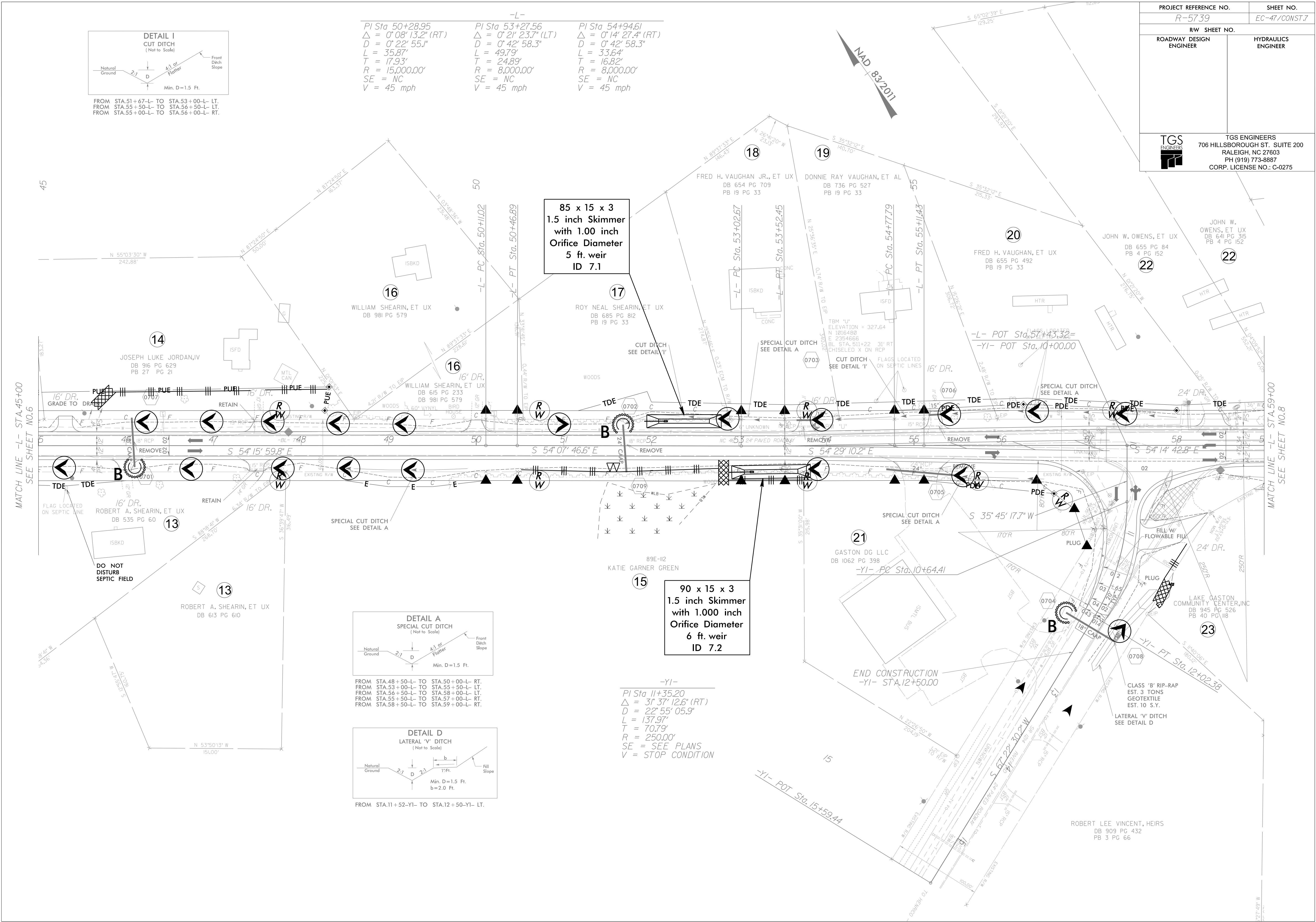
FROM STA.12+10-L- TO STA.17+00-L- LT.
FROM STA.12+50-L- TO STA.17+00-L- RT.

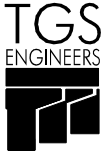


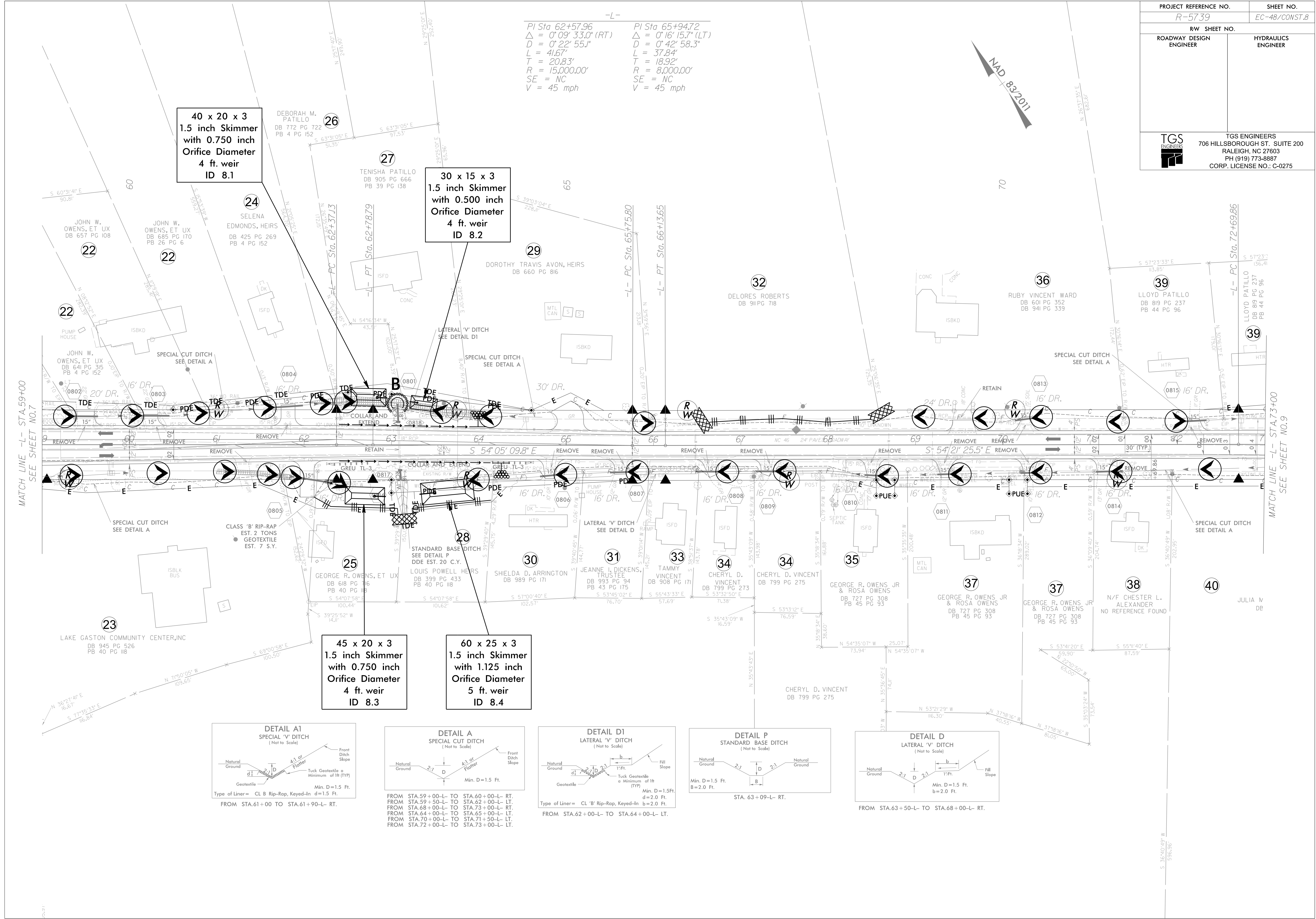
BEGIN T.I.P.PROJECT R-5739
-L- STA.12+09.79

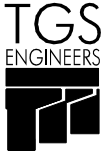
PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-46/CONST.6
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS
706 HILLSBOROUGH ST., SUITE 200		706 HILLSBOROUGH ST., SUITE 200
RALEIGH, NC 27603		RALEIGH, NC 27603
PH (919) 773-8887		PH (919) 773-8887
CORP. LICENSE NO.: C-0275		CORP. LICENSE NO.: C-0275

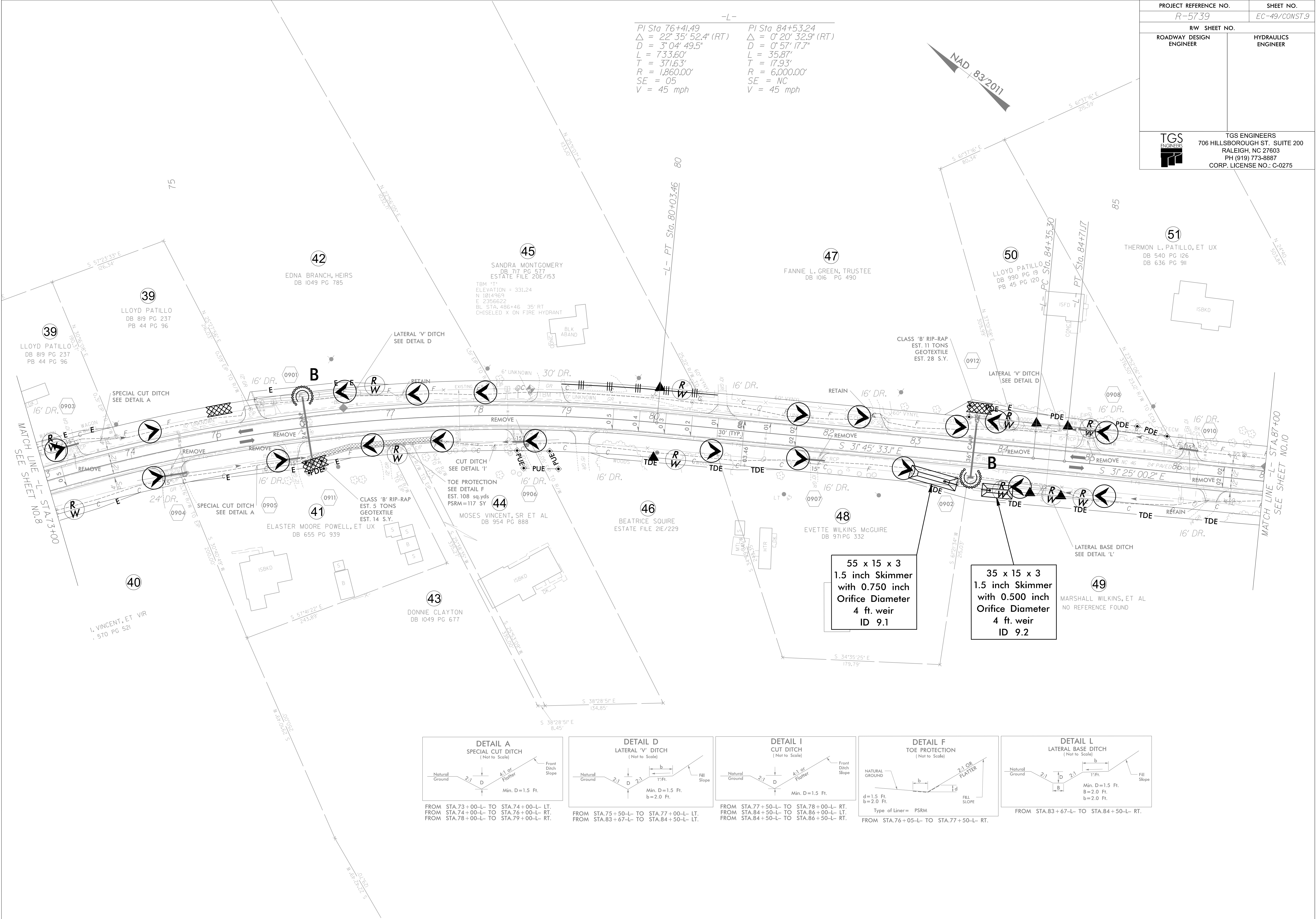




PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-48/CONST.B
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275

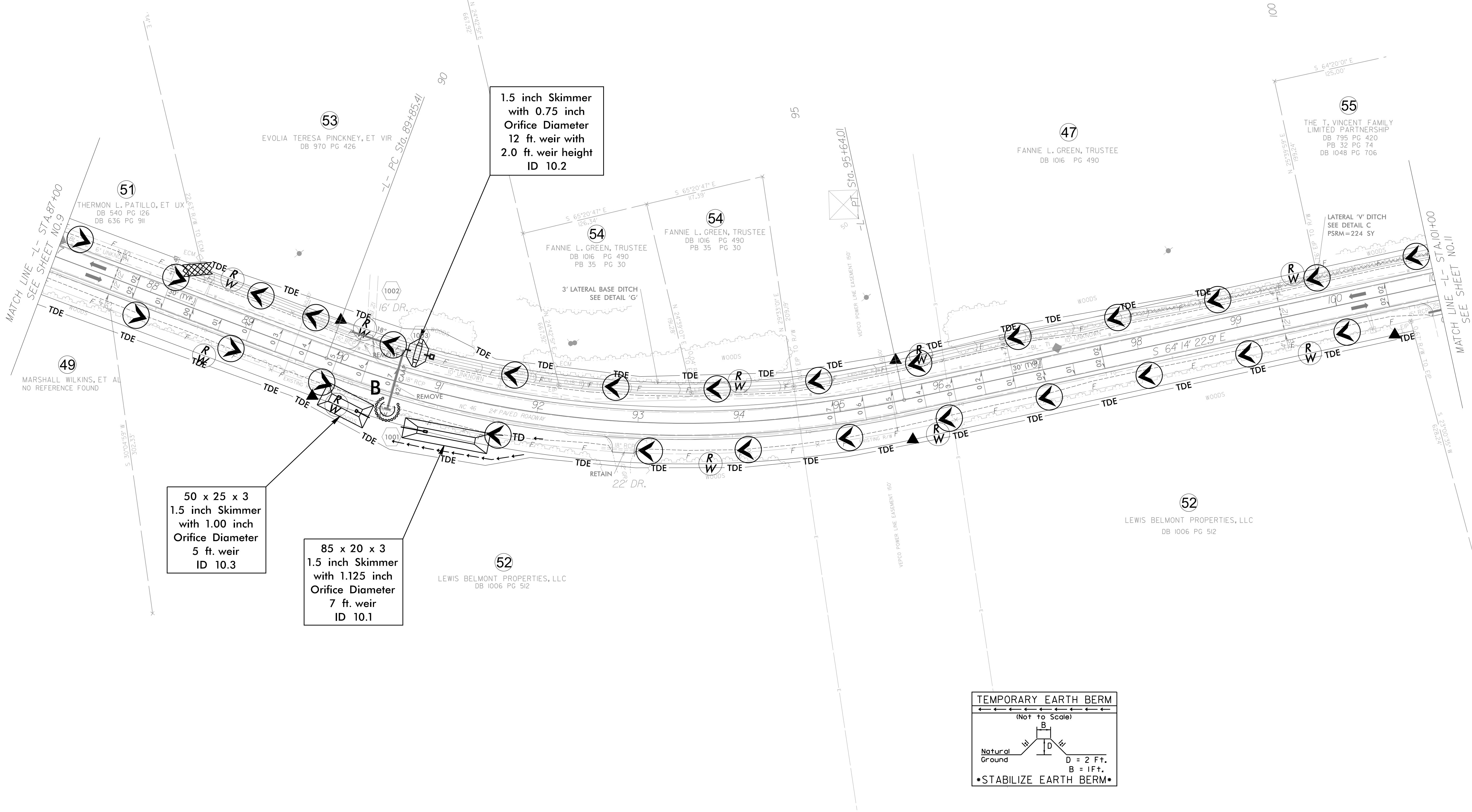
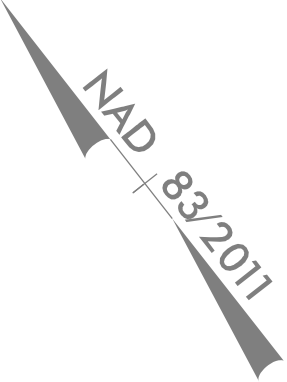
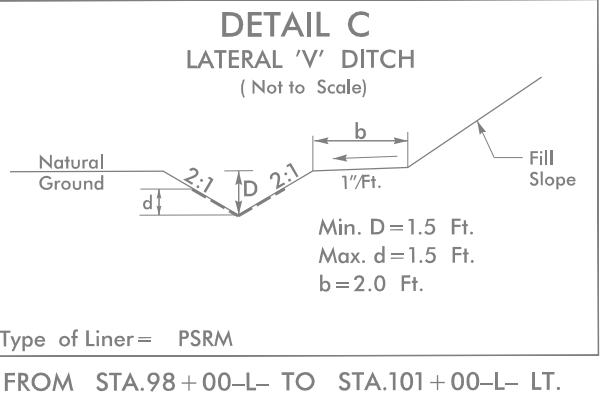
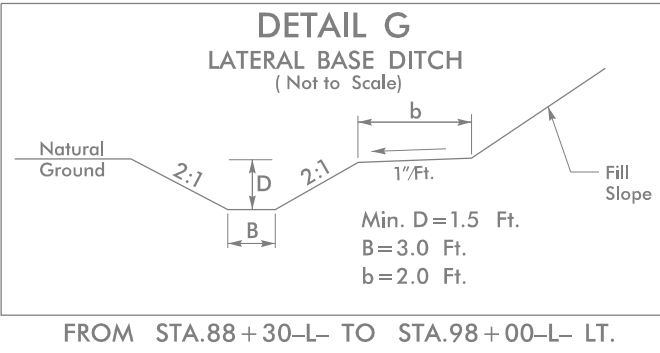


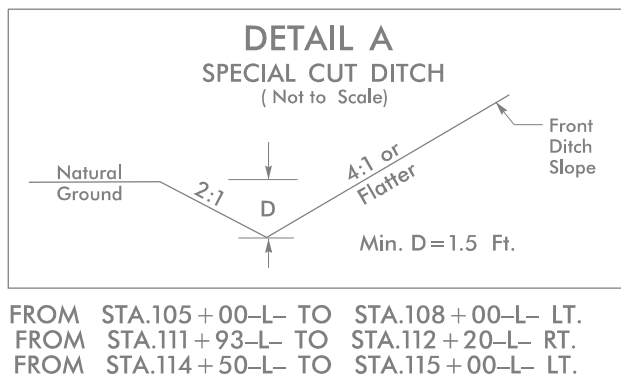
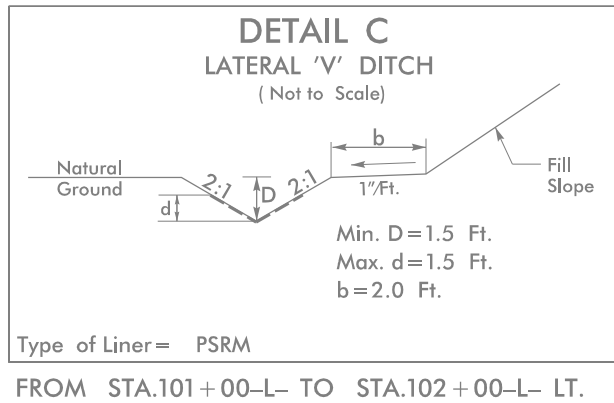
PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-49/CONST.9
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275



PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-50/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

-L-
PI Sta 92+82.89
 $\Delta = 32^{\circ}49'22.7''$ (LT)
D = 5' 40' 22.3"
L = 578.60'
T = 297.48'
R = 1,010.00'
SE = 07
V = 45 mph

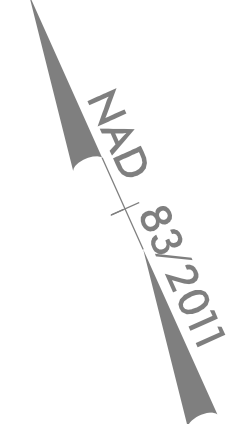
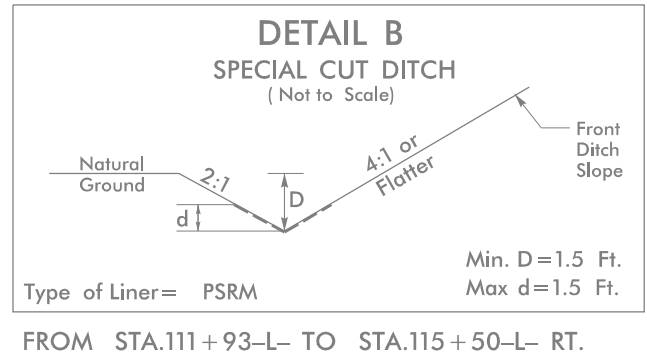




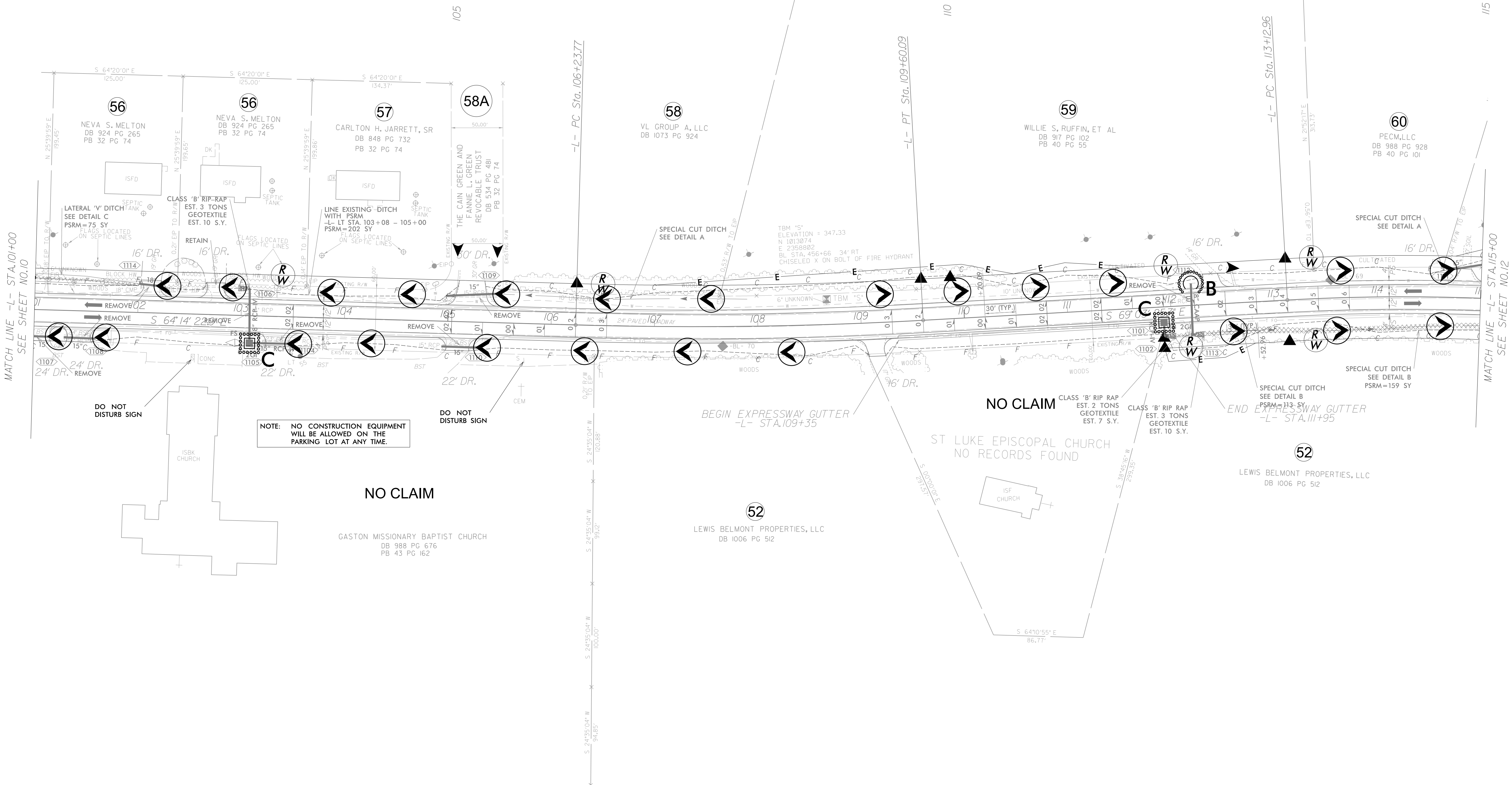
-L-

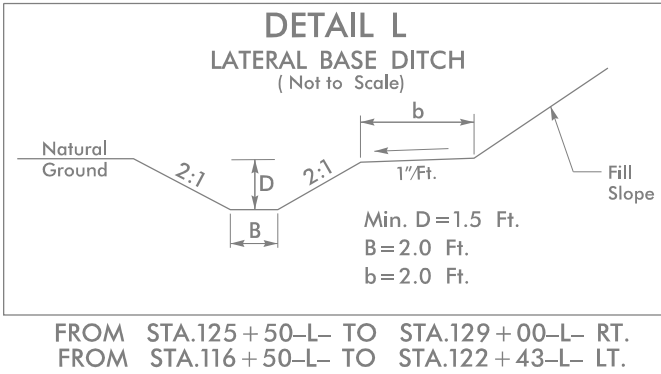
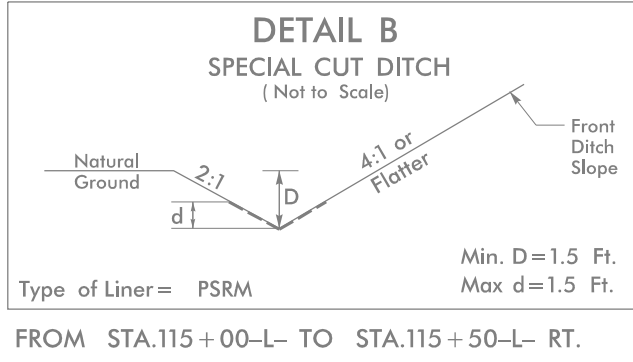
PI Sta 107+92.03
 $\Delta = 4' 49'' 02.8''$ (LT)
 $D = 1' 25' 56.6''$
 $L = 336.32'$
 $T = 168.26'$
 $R = 4,000.00'$
 $SE = 03$
 $V = 45$ mph

PI Sta 116+00.10
 $\Delta = 16' 10' 50.9''$ (RT)
 $D = 2' 50' 11.1''$
 $L = 570.46'$
 $T = 287.14'$
 $R = 2,020.00'$
 $SE = 06$
 $V = 55$ mph



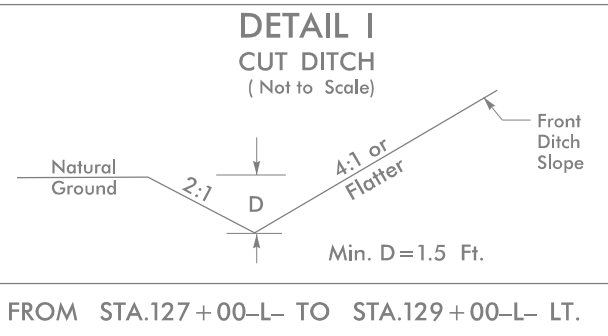
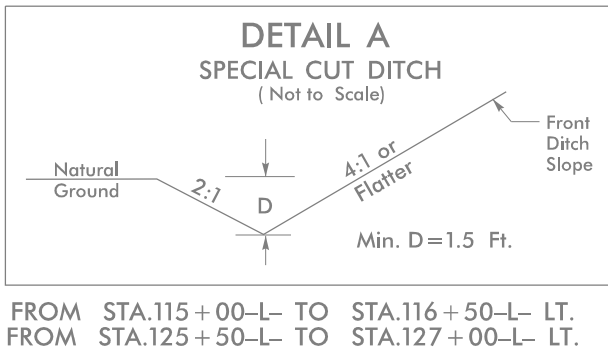
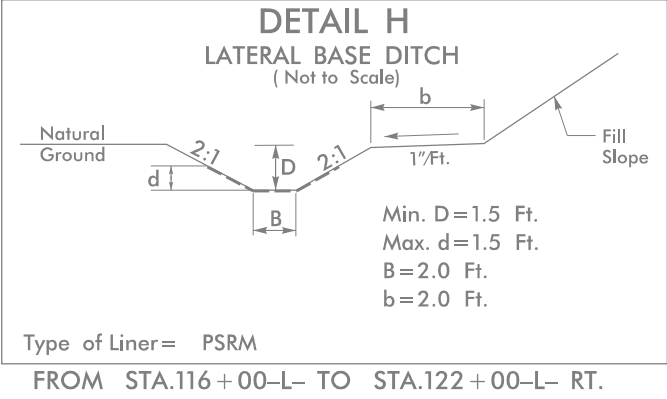
PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-51/CONST II
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275



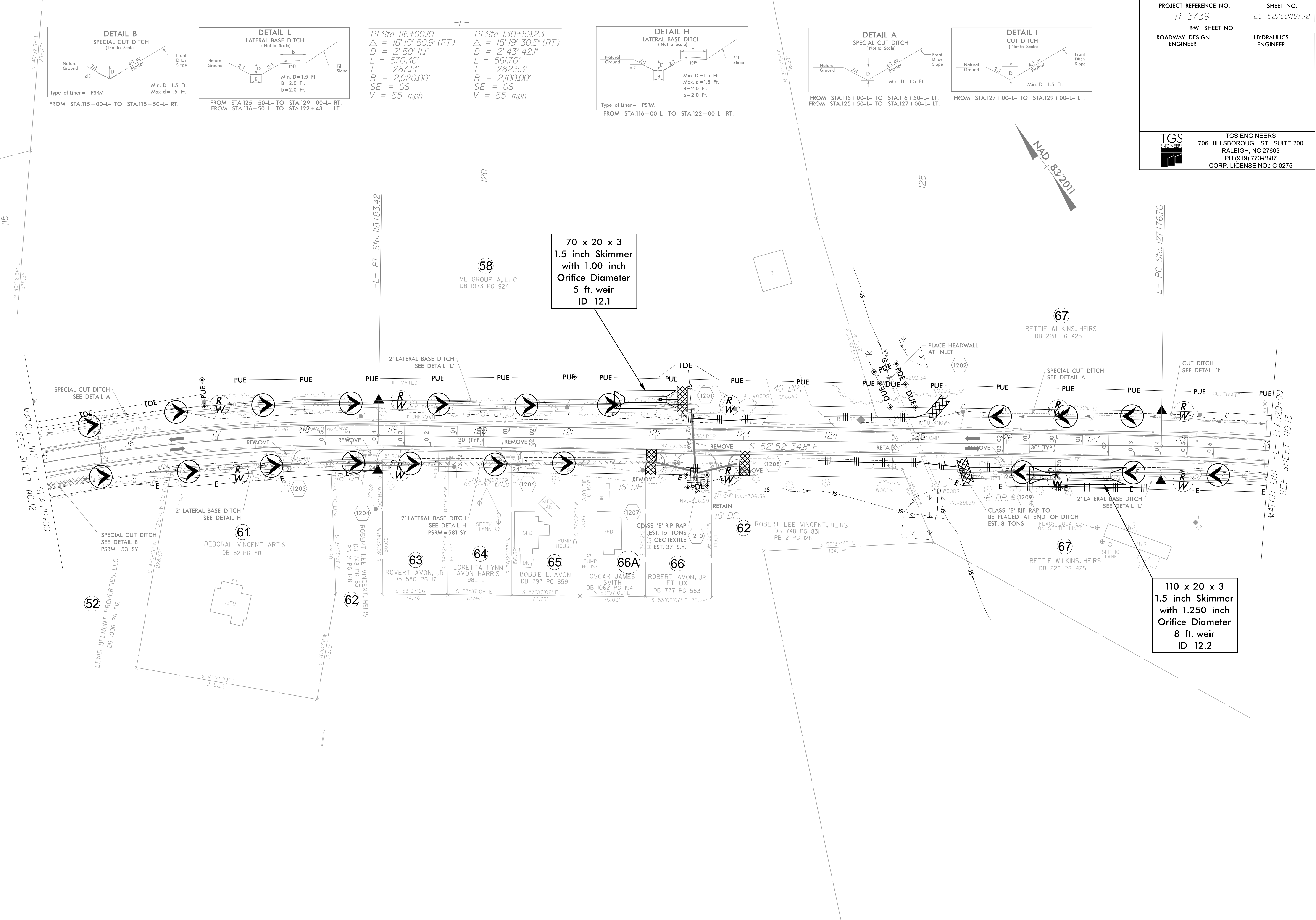


PI Sta 116+00.10
 $\Delta = 16^{\circ}10'50.9''$ (RT)
 $D = 2^{\circ}50'11.1''$
 $L = 570.46'$
 $T = 287.14'$
 $R = 2,020.00'$
 $SE = 06$
 $V = 55$ mph

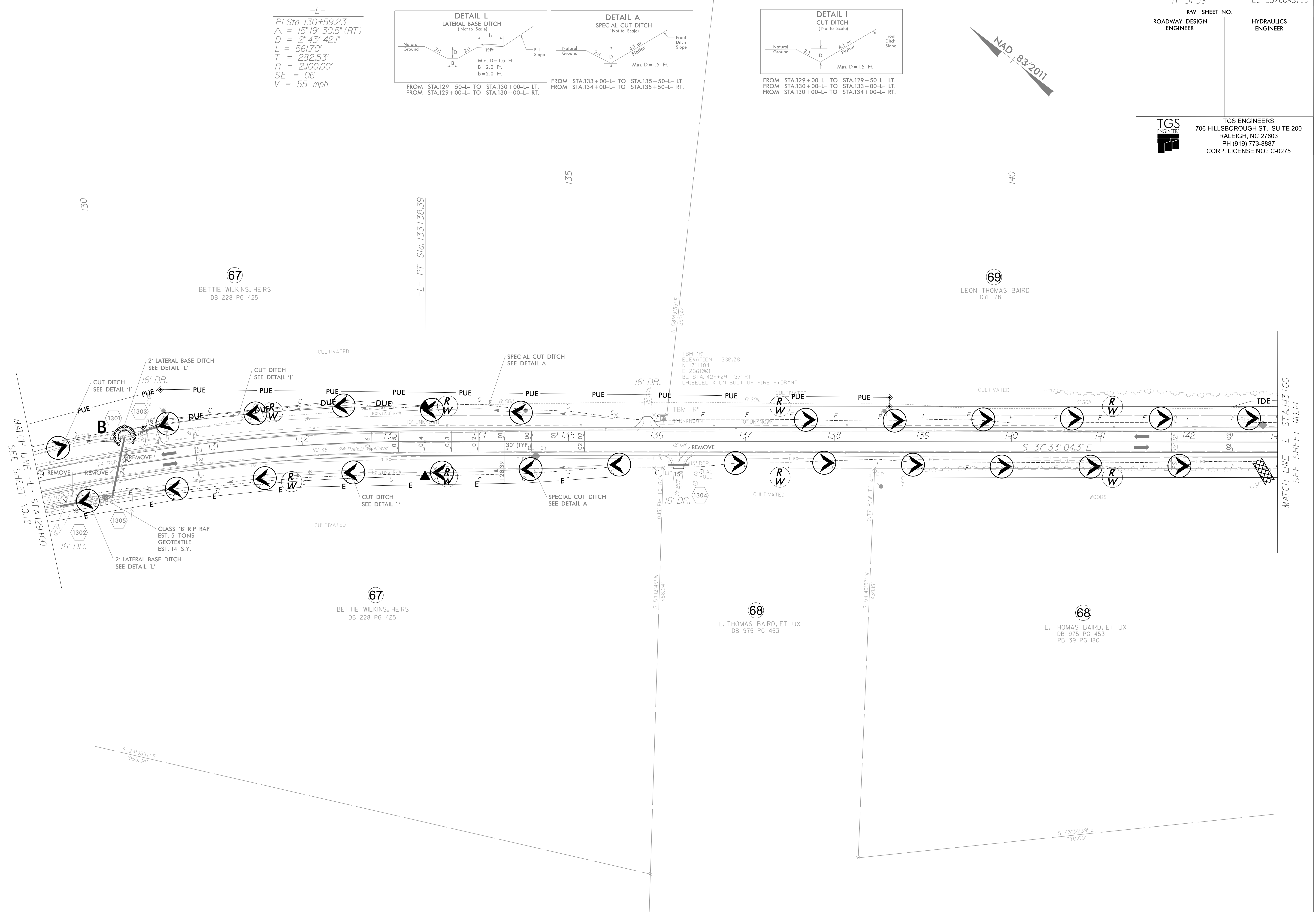
PI Sta 130+59.23
 $\Delta = 15^{\circ}19'30.5''$ (RT)
 $D = 2^{\circ}43'42.1''$
 $L = 561.70'$
 $T = 282.53'$
 $R = 2,100.00'$
 $SE = 06$
 $V = 55$ mph



PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-52/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

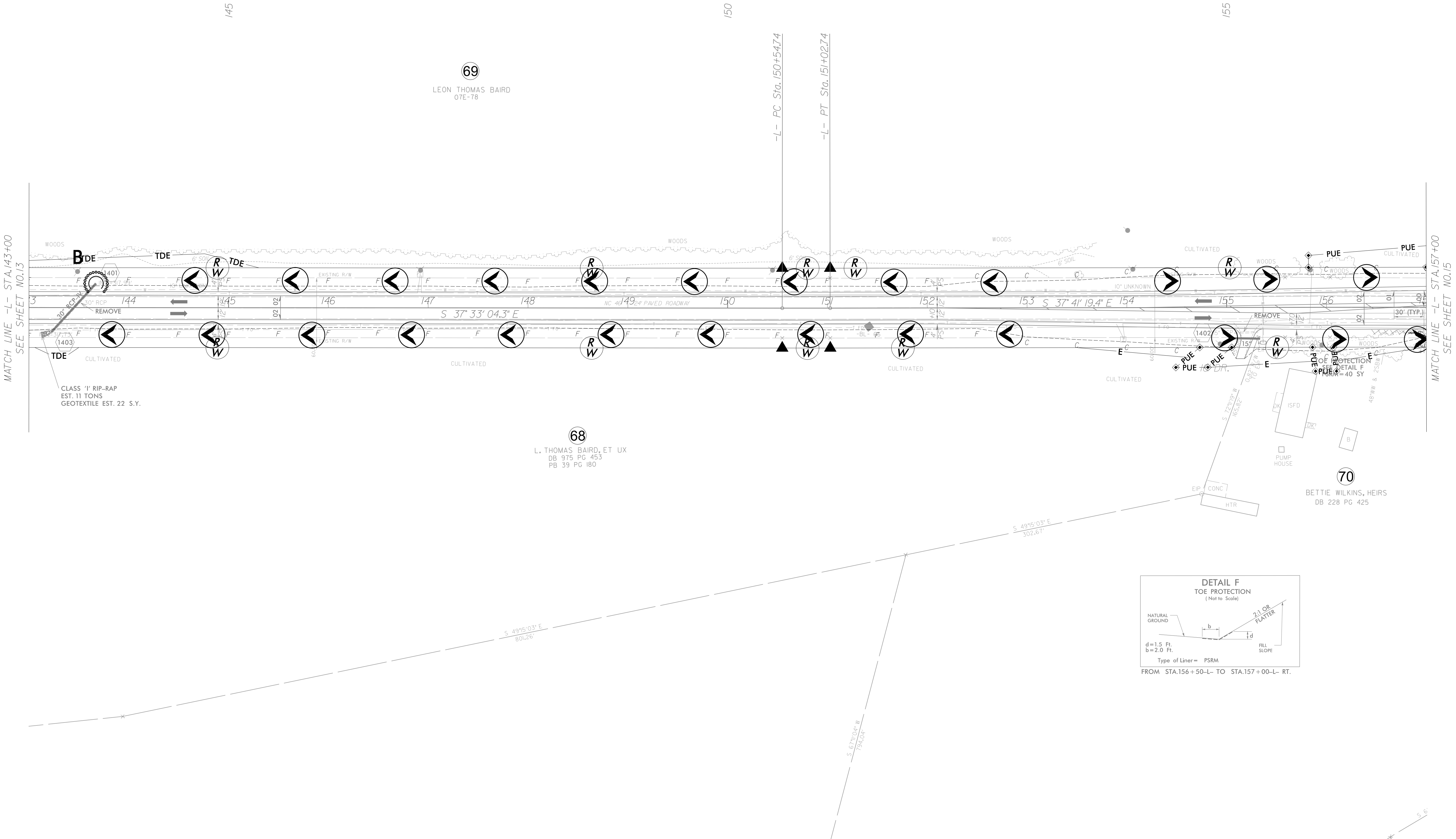
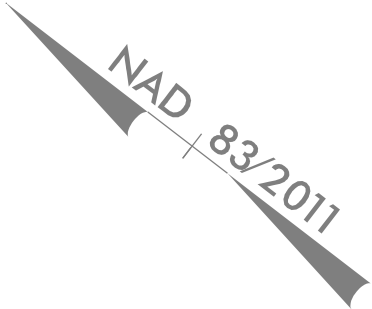


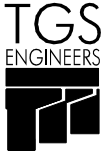
PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-53/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 TGS ENGINEERS 706 HILLSBOROUGH ST. SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



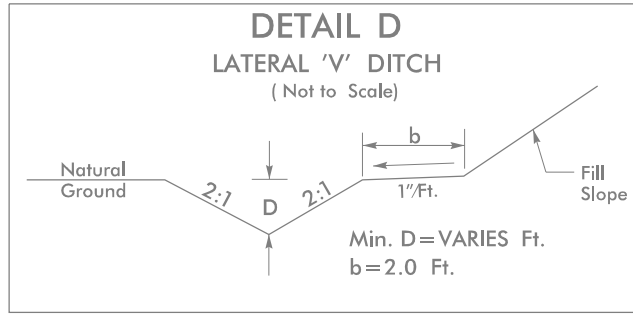
PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-54/CONST.14
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

-L-
PI Sta 150+78.74
 $\Delta = 0^{\circ} 08' 15.1''$ (LT)
 $D = 0^{\circ} 17' 11.3''$
 $L = 48.00'$
 $T = 24.00'$
 $R = 20,000.00'$
 $SE = NC$
 $V = 55 \text{ mph}$

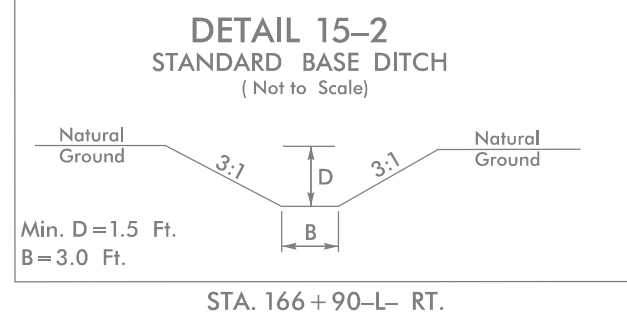
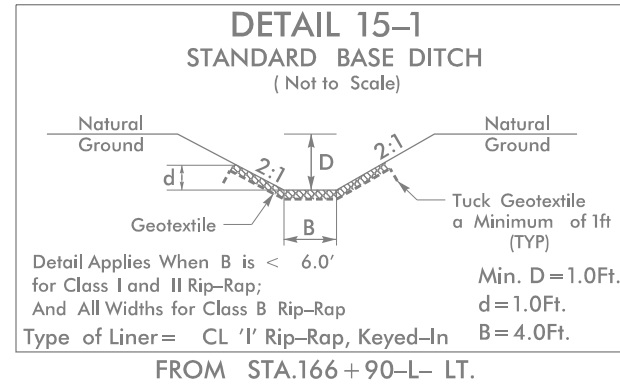
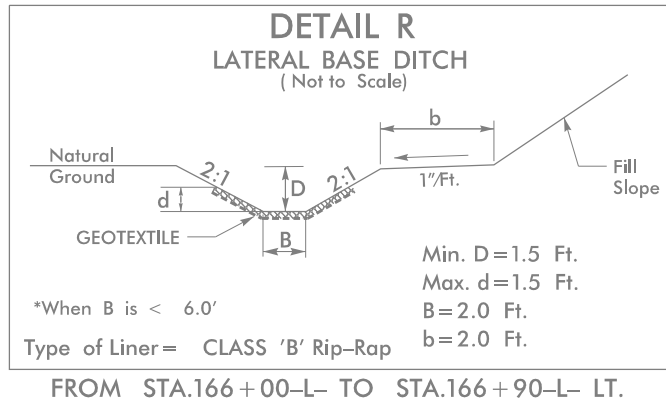


PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-55/CONST.15
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275

END CONSTRUCTION
-Y2- STA.12+35.00



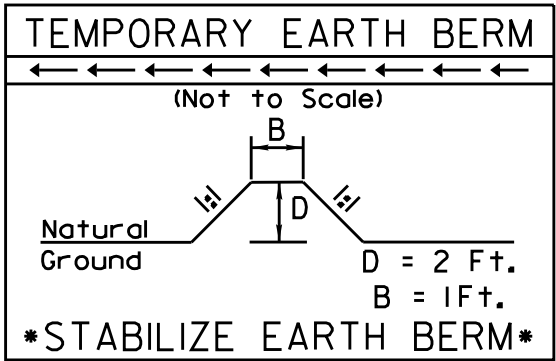
FROM STA.157+00-L- TO STA.158+79-L- LT.
FROM STA.158+79-L- TO STA.161+50-L- LT.



PI Sta 15+20.95
 $\Delta = 15^\circ 42' 44.6''$ (LT)
D = 5' 43' 46.5"
L = 274.23'
T = 137.98'
R = 1,000.00'
SE = 08
V = 55 mph

PI Sta 18+94.28
 $\Delta = 36^\circ 19' 28.9''$ (RT)
D = 19' 05' 54.9"
L = 190.20'
T = 98.42'
R = 300.00'
SE = SEE PLANS
V = STOP CONDITION

PI Sta 21+76.42
 $\Delta = 18^\circ 52' 29.7''$ (LT)
D = 8' 11' 06.4"
L = 230.60'
T = 116.35'
R = 700.00'
SE = SEE PLANS
V = STOP CONDITION



45 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 15.3

40 x 20 x 3
1.5 inch Skimmer
with 0.750 inch
Orifice Diameter
4 ft. weir
ID 15.4

75 x 20 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
5 ft. weir
ID 15.5

80 x 20 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 15.6

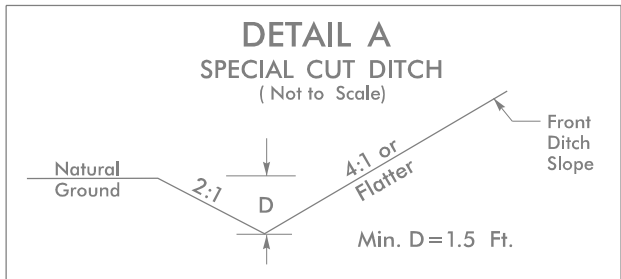
55 x 20 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 15.1

80 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
8 ft. weir
ID 15.2

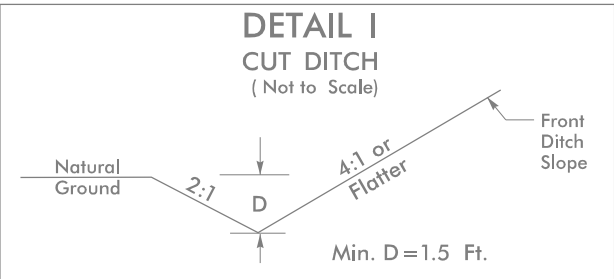
PI Sta 161+80.48
 $\Delta = 14^\circ 44' 06.5''$ (RT)
D = 1' 56' 08.4"
L = 761.24'
T = 382.73'
R = 2,960.00'
SE = 05
V = 55 mph

PI Sta 170+24.86
 $\Delta = 10^\circ 15' 55.6''$ (LT)
D = 1' 56' 08.4"
L = 530.33'
T = 265.88'
R = 2,960.00'
SE = 05
V = 55 mph

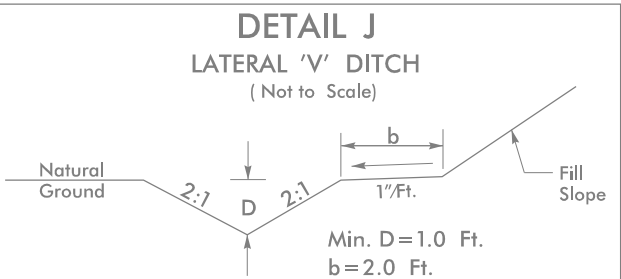
PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-56/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



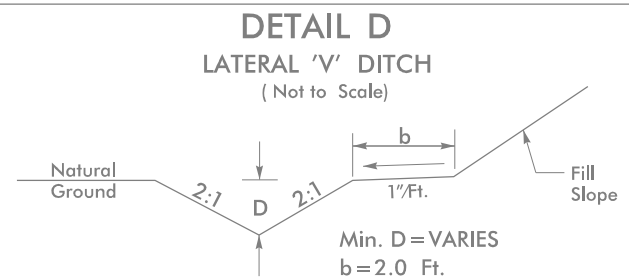
FROM STA.172+00-L- TO STA.174+00-L- LT
FROM STA.175+00-L- TO STA.177+00-L- LT
FROM STA.180+00-L- TO STA.182+00-L- RT.



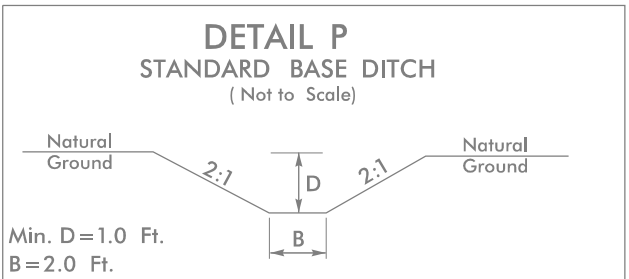
FROM STA.174+00-L- TO STA.175+00-L- LT



FROM STA.175+00-L- TO STA.176+50-L- RT

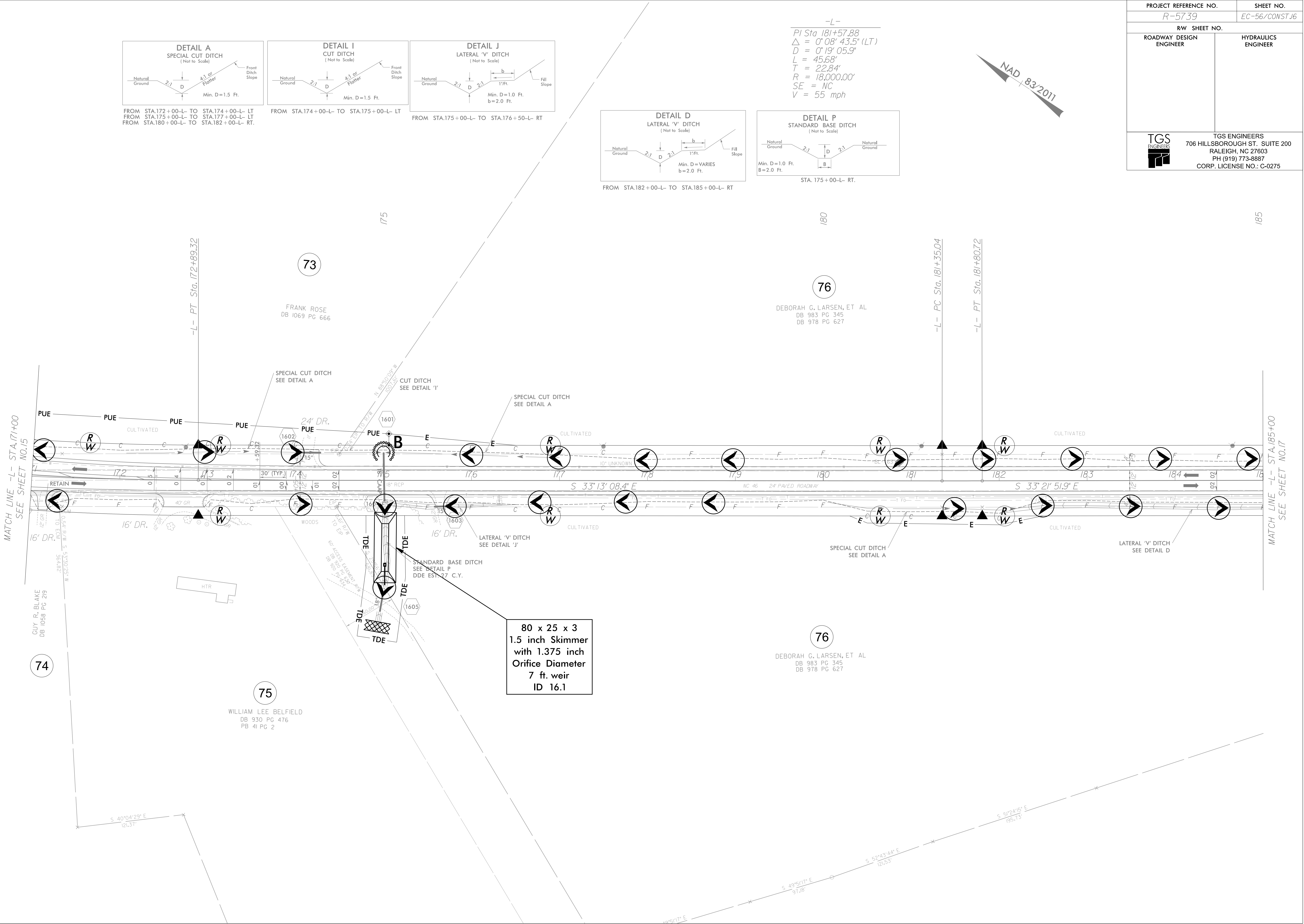
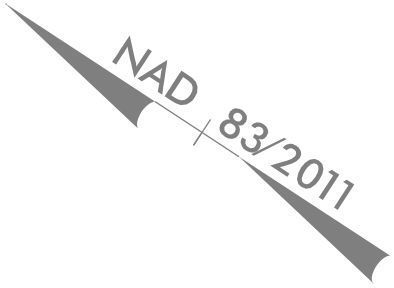


FROM STA.182+00-L- TO STA.185+00-L- RT



STA. 175+00-L- RT.

-L-
PI Sta 181+57.88
 $\Delta = 0^\circ 08' 43.5''$ (LT)
 $D = 0^\circ 19' 05.9''$
 $L = 45.68'$
 $T = 22.84'$
 $R = 18,000.00'$
 $SE = NC$
 $V = 55$ mph



DETAIL I
CUT DITCH
(Not to Scale)

FROM STA.188+00-L- TO STA.191+50-L- LT.

DETAIL D
LATERAL 'V' DITCH
(Not to Scale)

FROM STA.185+00-L- TO STA.186+50-L- RT

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)

FROM STA.186+50-L- TO STA.187+50-L- RT
FROM STA.191+50-L- TO STA.196+00-L- LT
FROM STA.196+50-L- TO STA.199+00-L- LT

DETAIL S
STANDARD 'V' DITCH
(Not to Scale)

FROM -L- STA. 186+50 RT

90 x 15 x 3
1.5 inch Skimmer
with 1.000 inch
Orifice Diameter
8 ft. weir
ID 17.2

60 x 15 x 3
1.5 inch Skimmer
with 0.750 inch
Orifice Diameter
4 ft. weir
ID 17.3

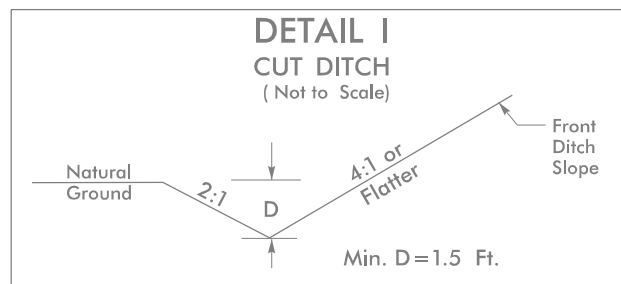
65 x 20 x 3
1.5 inch Skimmer
with 1.000 inch
Orifice Diameter
5 ft. weir
ID 17.1

DITCH CLEANOUT
DDE (EST. 10 C.Y.)
CLASS 'B' RIP RAP (EST. 20 TONS)
TO BE PLACED IN DITCH

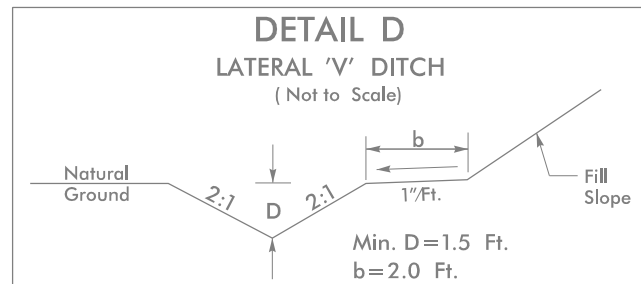
DEBORAH G. LARSEN, ET AL
DB 983 PG 345
DB 978 PG 627

MASON J. PRICE
DB 1004 PG 753
DB 1021 PG 468
PB 13 PG 158
PB 15 PG 89
PB 17 PG 63

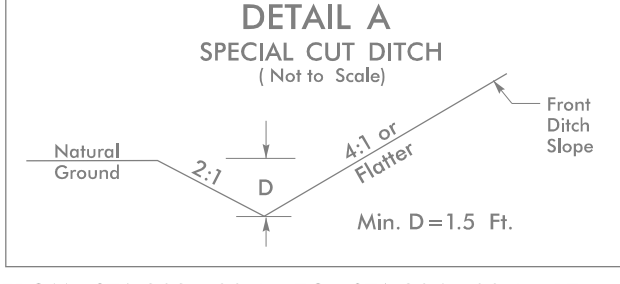
PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-58/CONST.B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



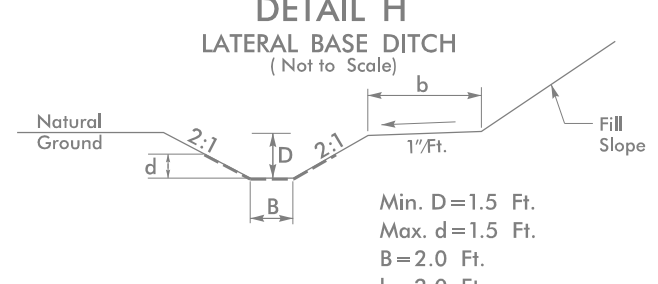
FROM STA.199+00-L TO STA.200+12-L LT.
FROM STA.201+50-L TO STA.202+00-L- RT.



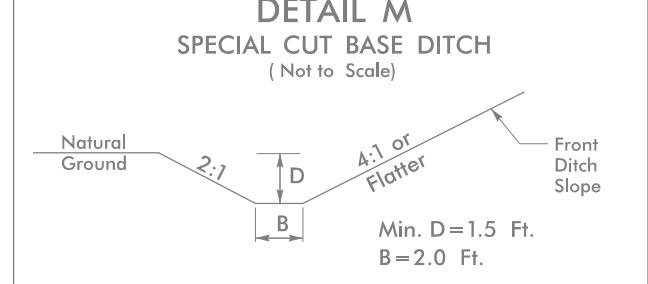
FROM STA.207+00-L TO STA.208+50-L LT.
FROM STA.210+00-L TO STA.211+50-L LT.



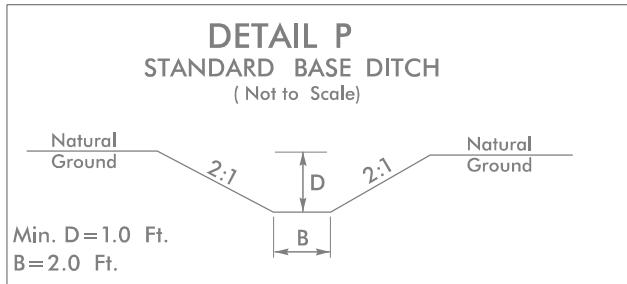
FROM STA.202+00-L TO STA.204+00-L RT.
FROM STA.204+00-L TO STA.204+50-L LT.
FROM STA.205+50-L TO STA.207+00-L RT.
FROM STA.207+50-L TO STA.209+50-L RT.
FROM STA.208+50-L TO STA.210+00-L LT.



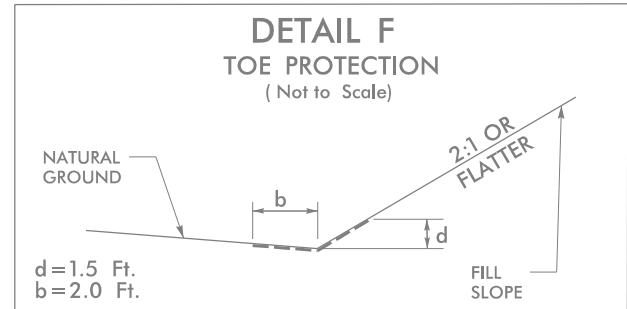
Type of Liner= PSRM
FROM STA.211+50-L TO STA.213+00-L LT.



FROM STA.209+50-L TO STA.211+54-L- RT.



STA. 200+12-L- RT.



Type of Liner= PSRM
FROM STA.204+50-L TO STA.205+00-L LT.

76
DEBORAH G. LARSEN, ET AL
DB 983 PG 345
DB 978 PG 627

-L-
PI Sta. 204+37.91
 $\Delta = 10' 07' 51.6''$ (RT)
 $D = 3' 10' 59.2''$
 $L = 318.27'$
 $T = 159.55'$
 $R = 1,800.00'$
 $SE = 07'$
 $V = 55$ mph

76
DEBORAH G. LARSEN, ET AL
DB 983 PG 345
DB 978 PG 627

76
DEBORAH G. LARSEN, ET AL
DB 983 PG 345
DB 978 PG 627

50 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 18.3

60 x 15 x 3
1.5 inch Skimmer
with 0.750 inch
Orifice Diameter
4 ft. weir
ID 18.2

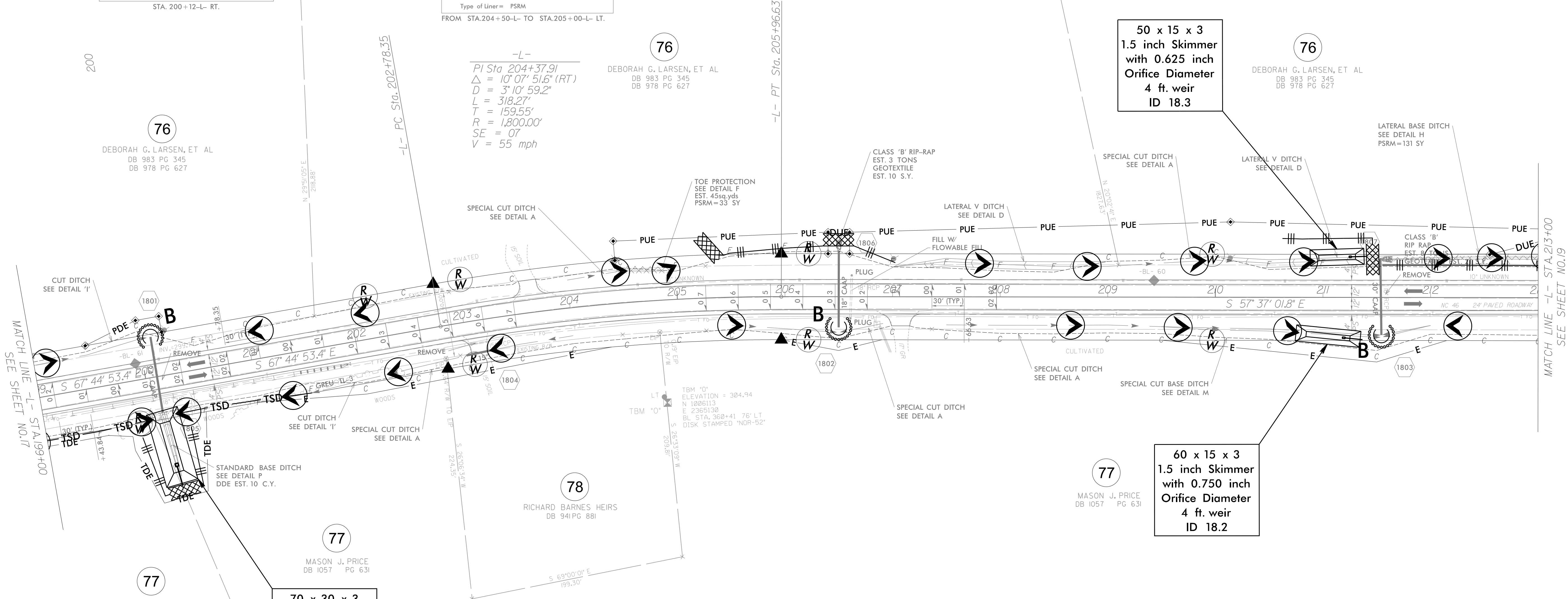
70 x 30 x 3
1.5 inch Skimmer
with 1.250 inch
Orifice Diameter
8 ft. weir
ID 18.1

77
MASON J. PRICE
DB 1004 PG 753
DB 1021 PG 468
PB 13 PG 158
PB 15 PG 89
PB 17 PG 63

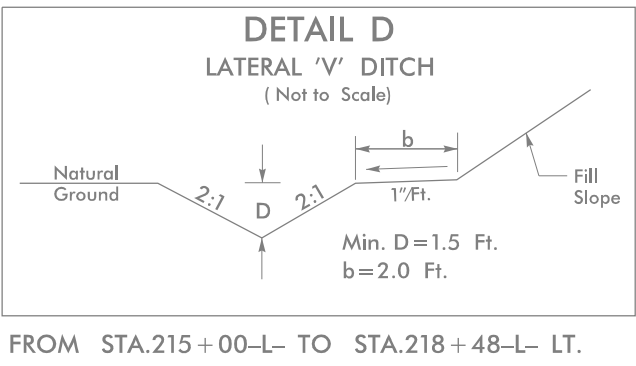
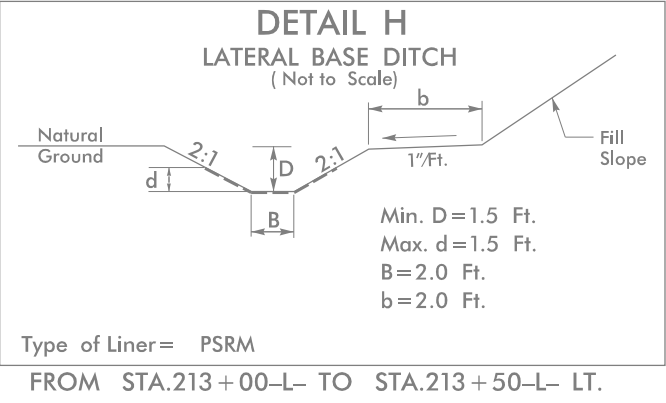
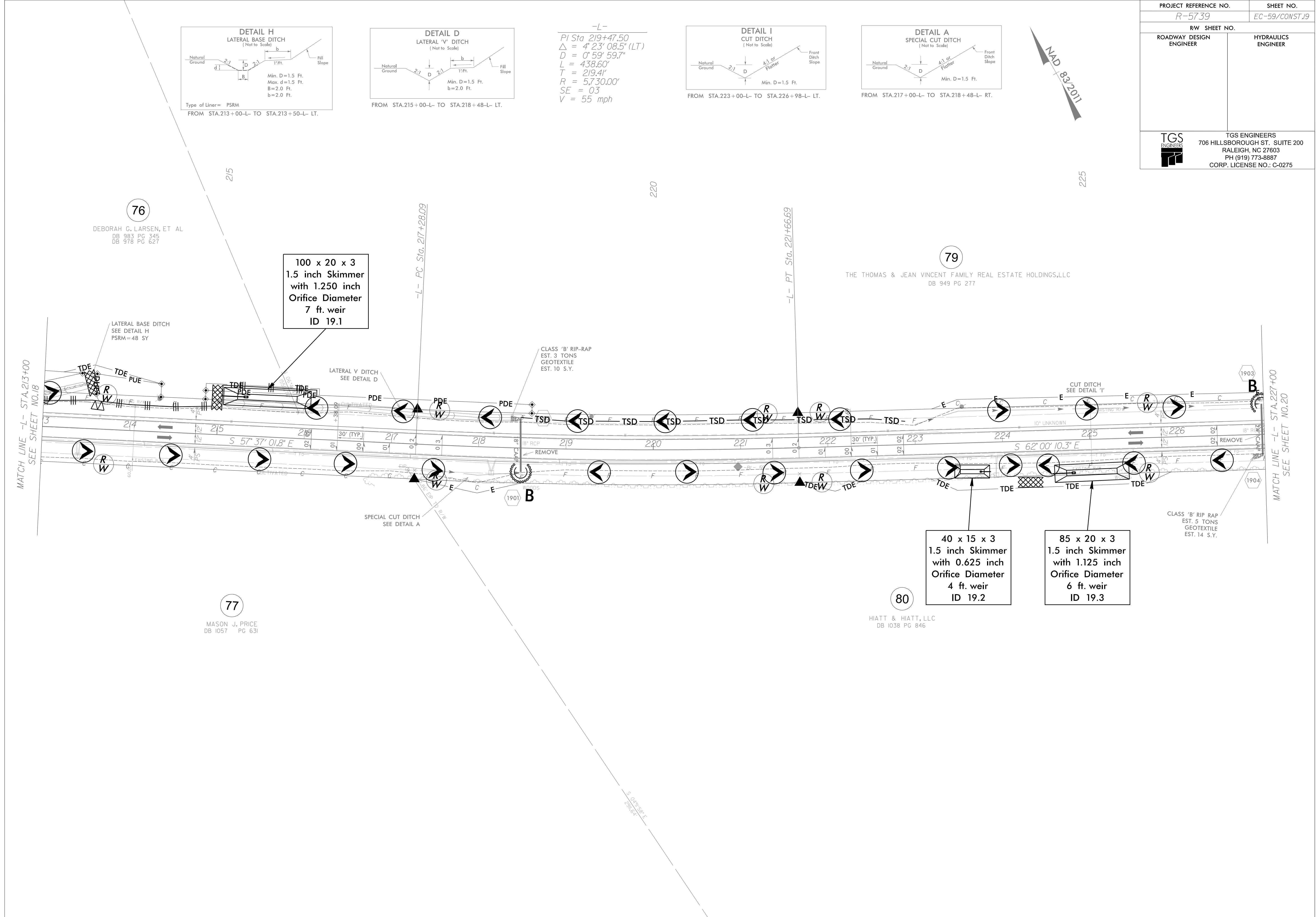
77
MASON J. PRICE
DB 1057 PG 631

78
RICHARD BARNES HEIRS
DB 941 PG 881

77
MASON J. PRICE
DB 1057 PG 631

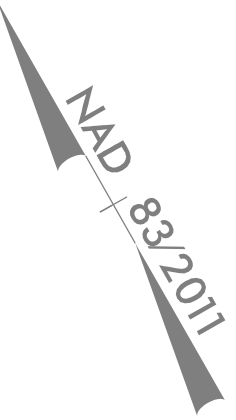
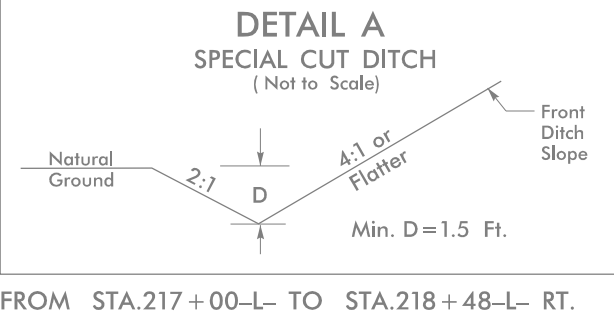
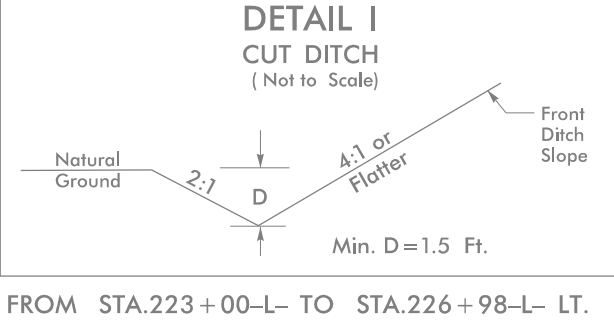


PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-59/CONST.19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	

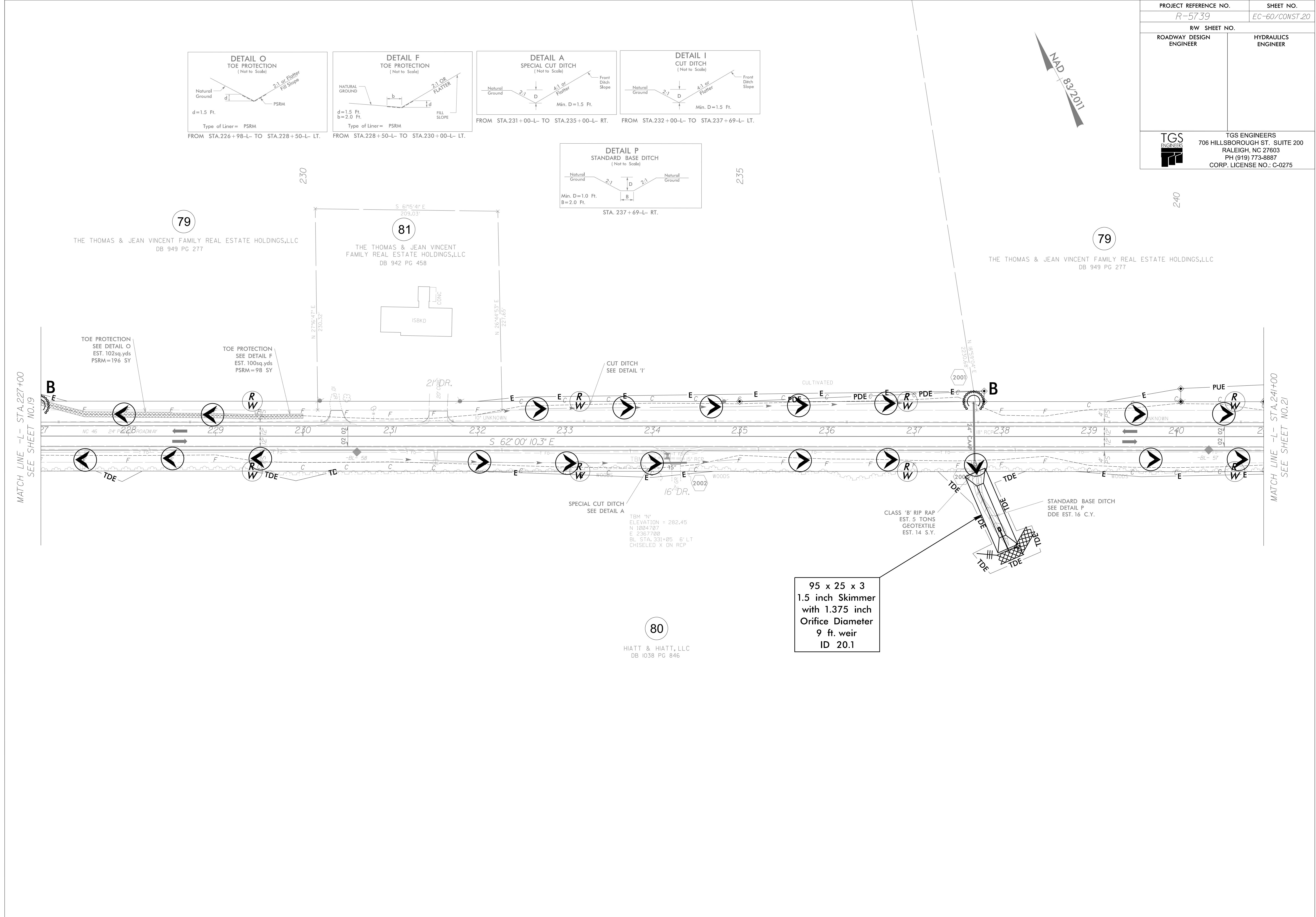


-L-

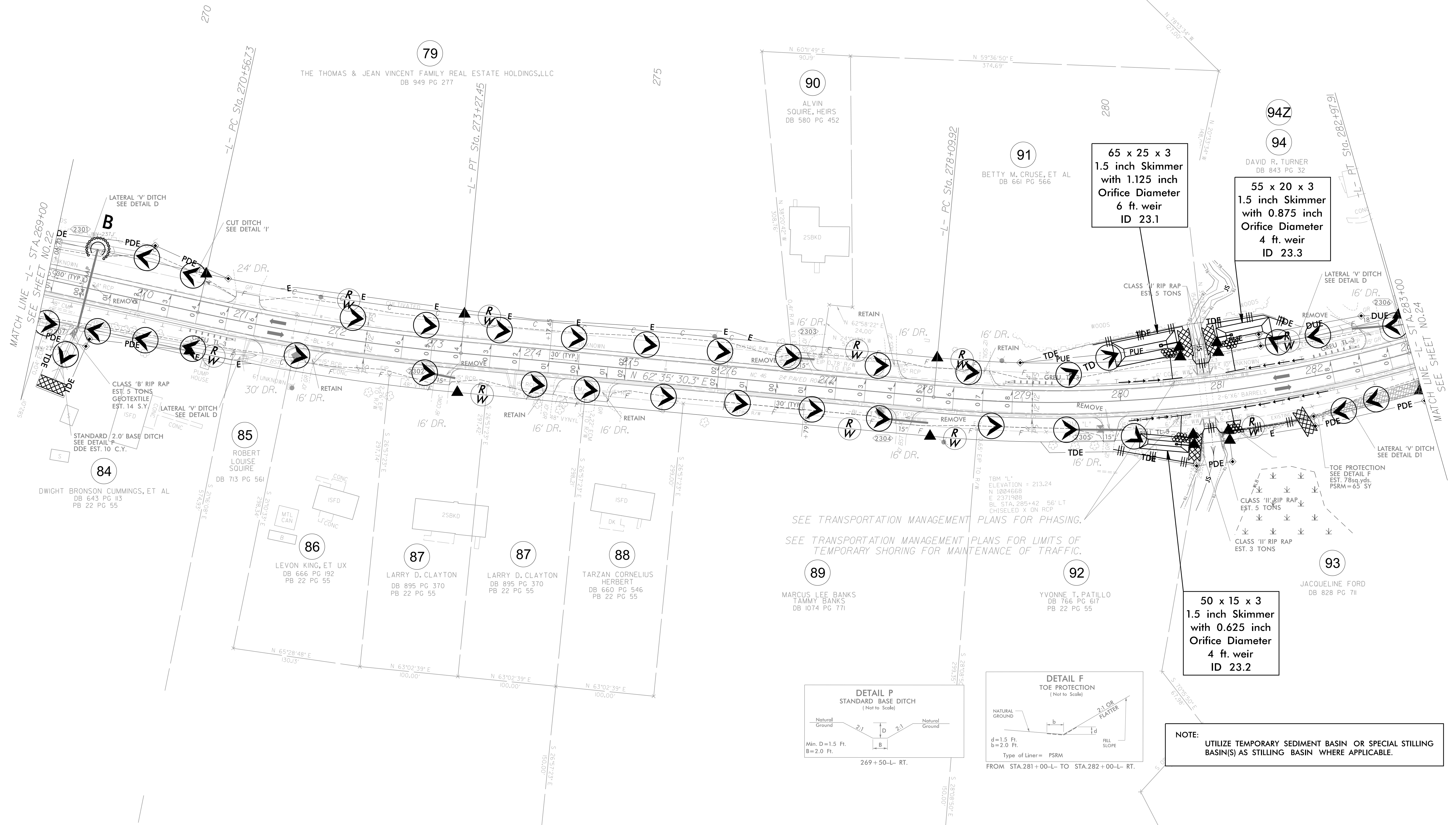
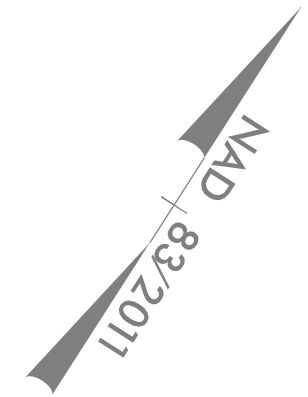
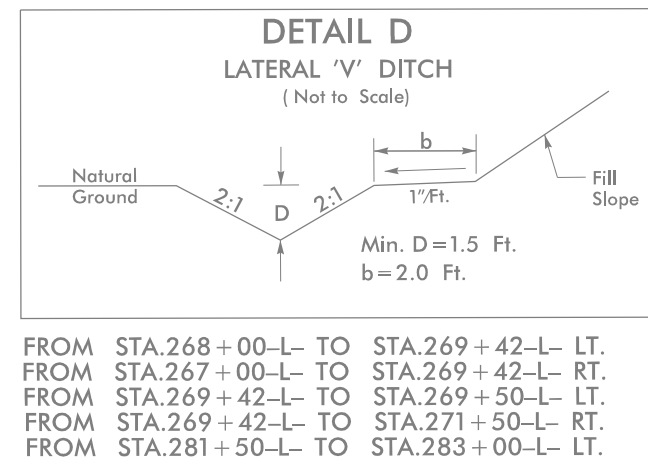
PI Sta 219+47.50
 $\Delta = 4^{\circ} 23' 08.5''$ (LT)
 $D = 0^{\circ} 59' 59.7''$
 $L = 438.60'$
 $T = 219.41'$
 $R = 5,730.00'$
 $SE = 03$
 $V = 55$ mph

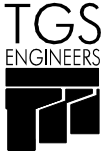


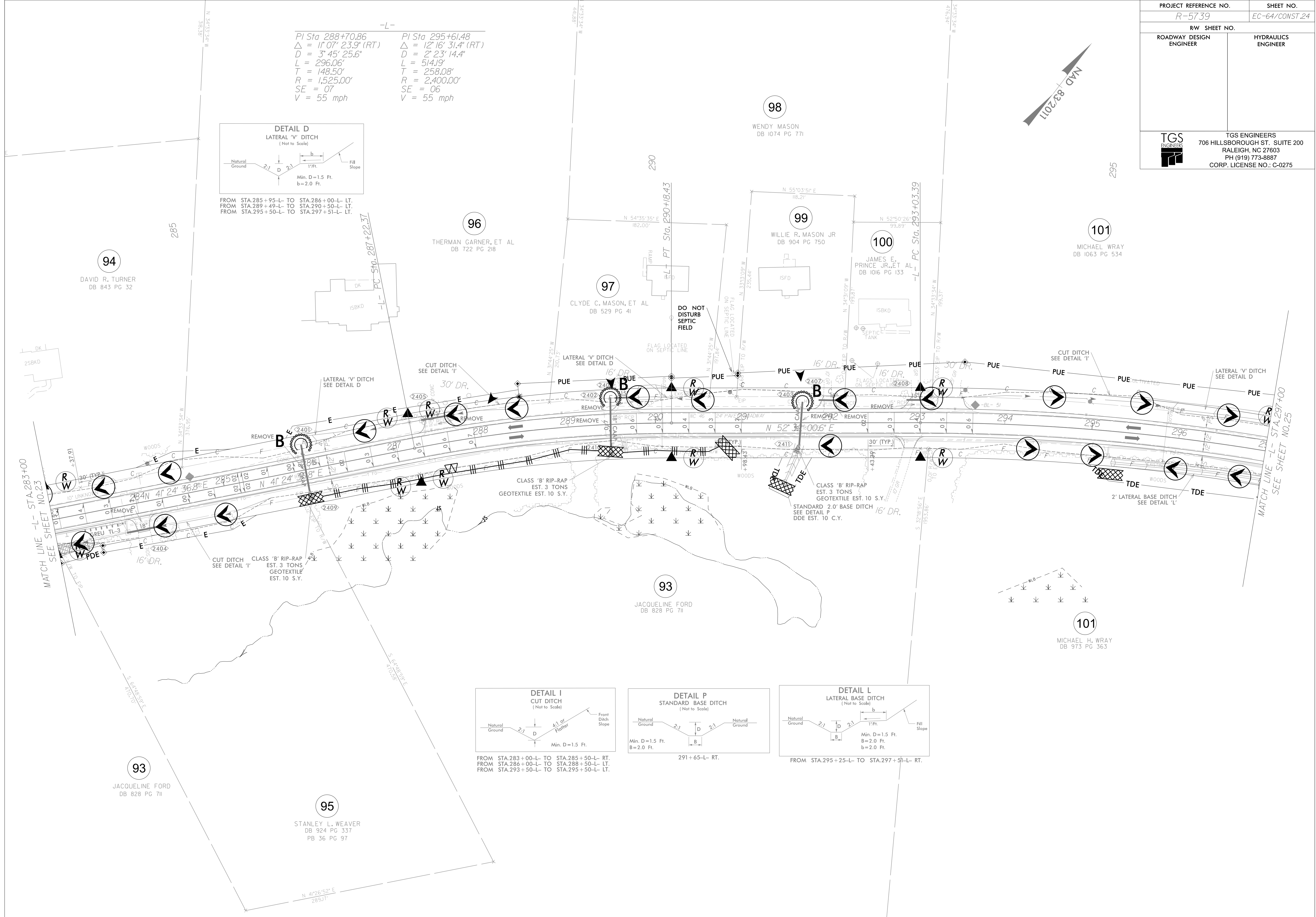
PROJECT REFERENCE NO.	SHEET NO.
R-5739	EC-60/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275	



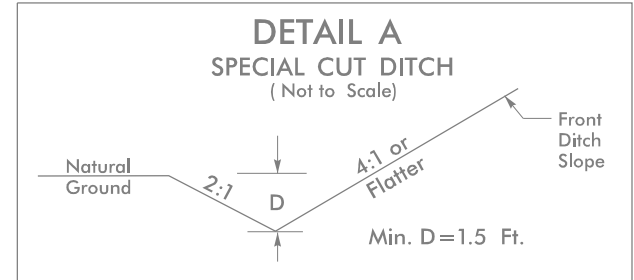
$-L-$	
$PI\ St\alpha\ 271+92.26$	$PI\ St\alpha\ 280+56.73$
$\Delta = 7^{\circ}03'01.4''\ (LT)$	$\Delta = 21^{\circ}10'53.5''\ (LT)$
$D = 2^{\circ}36'15.7''$	$D = 4^{\circ}20'26.1''$
$L = 270.72^{\circ}$	$L = 487.99^{\circ}$
$T = 135.53^{\circ}$	$T = 246.81^{\circ}$
$R = 2,200.00''$	$R = 1,320.00''$
$SE = 06$	$SE = 08$
$V = 55\ mph$	$V = 55\ mph$



PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-64/CONST.24
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275



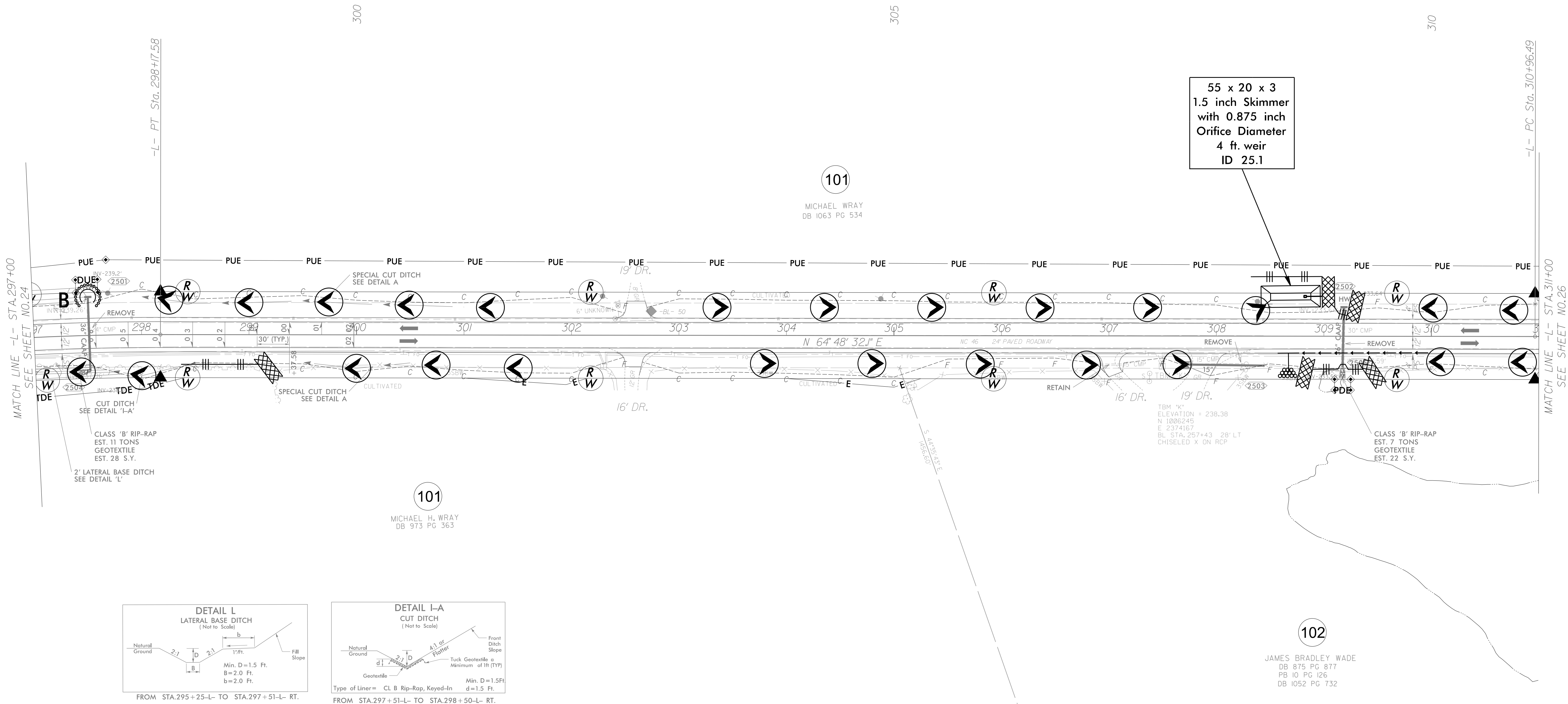
PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-65/CONST.25
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
TGS ENGINEERS		TGS ENGINEERS
706 HILLSBOROUGH ST., SUITE 200		706 HILLSBOROUGH ST., SUITE 200
RALEIGH, NC 27603		RALEIGH, NC 27603
PH (919) 773-8887		PH (919) 773-8887
CORP. LICENSE NO.: C-0275		CORP. LICENSE NO.: C-0275

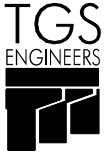


FROM STA.298+00-L- TO STA.301+00-L- LT.
FROM STA.299+50-L- TO STA.300+50-L- RT.

-L-

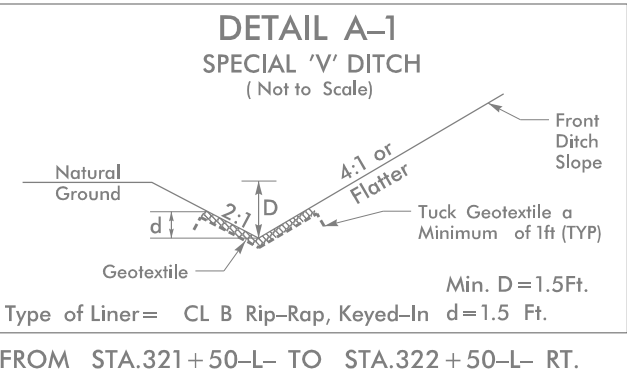
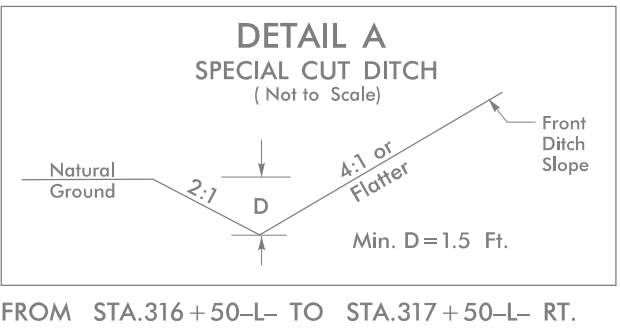
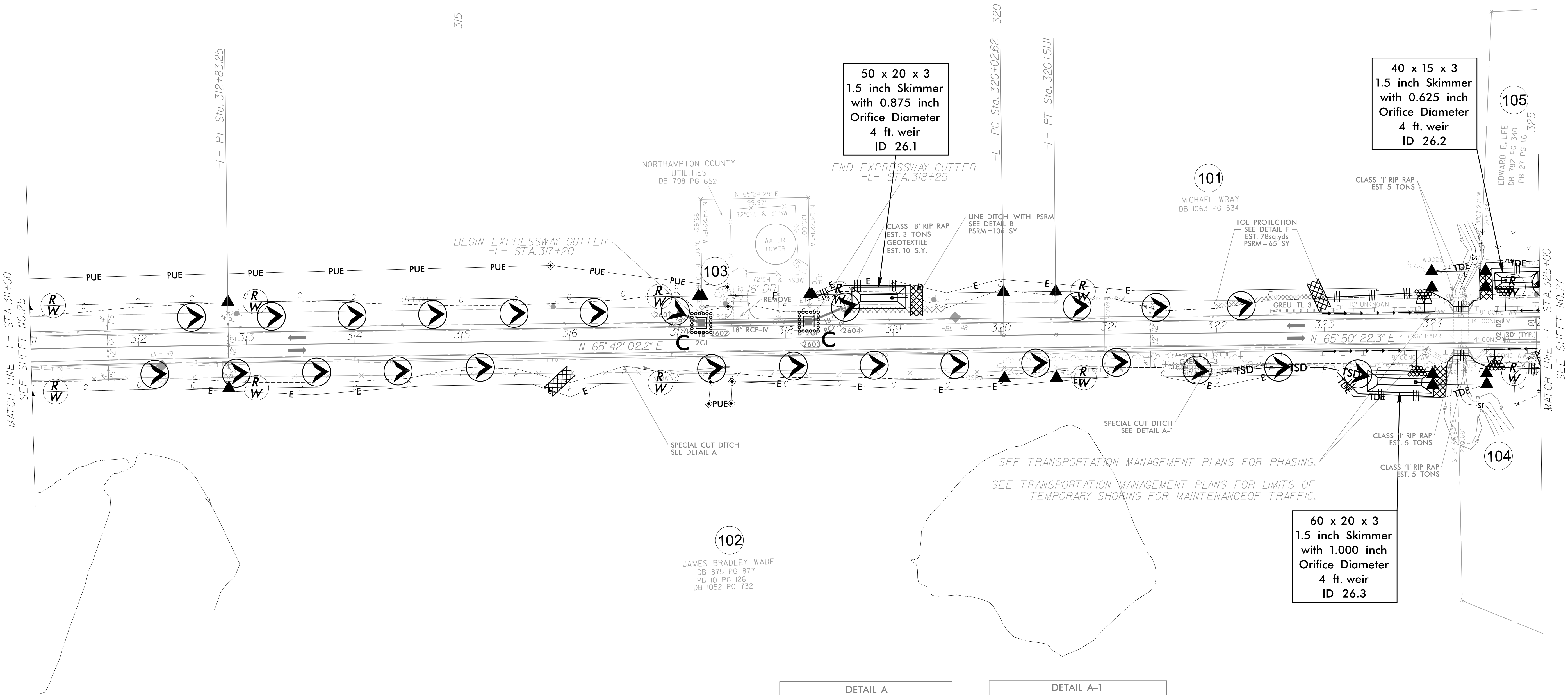
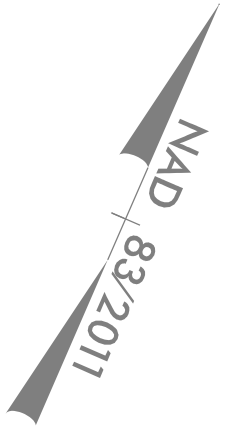
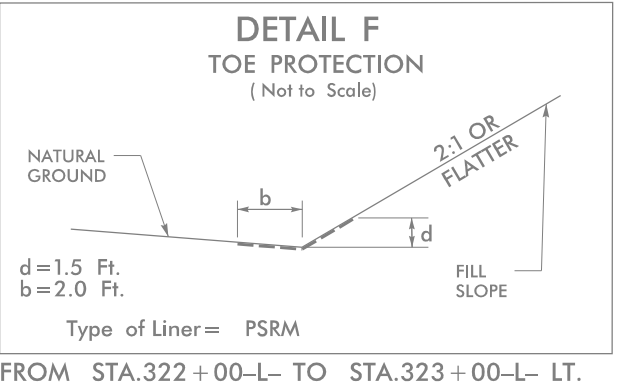
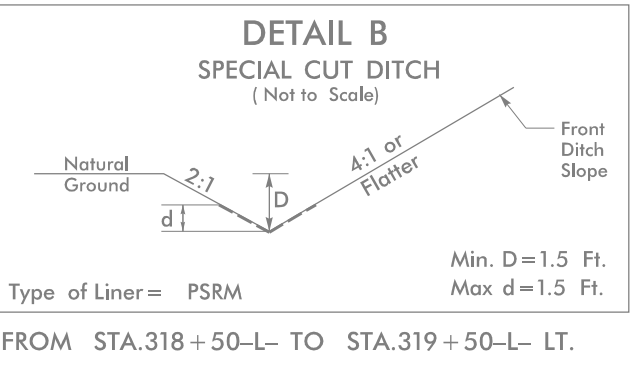
PI Sta 295+61.48	PI Sta 311+89.87
$\Delta = 12^{\circ} 16' 31.4''$ (RT)	$\Delta = 0^{\circ} 53' 30.1''$ (RT)
D = 2' 23' 14.4"	D = 0' 28' 38.9"
L = 514.19'	L = 186.76'
T = 258.08'	T = 93.38'
R = 2,400.00'	R = 12,000.00'
SE = 06	SE = NC
V = 55 mph	V = 55 mph



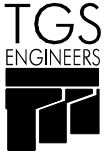
PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-66/CONST.26
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275

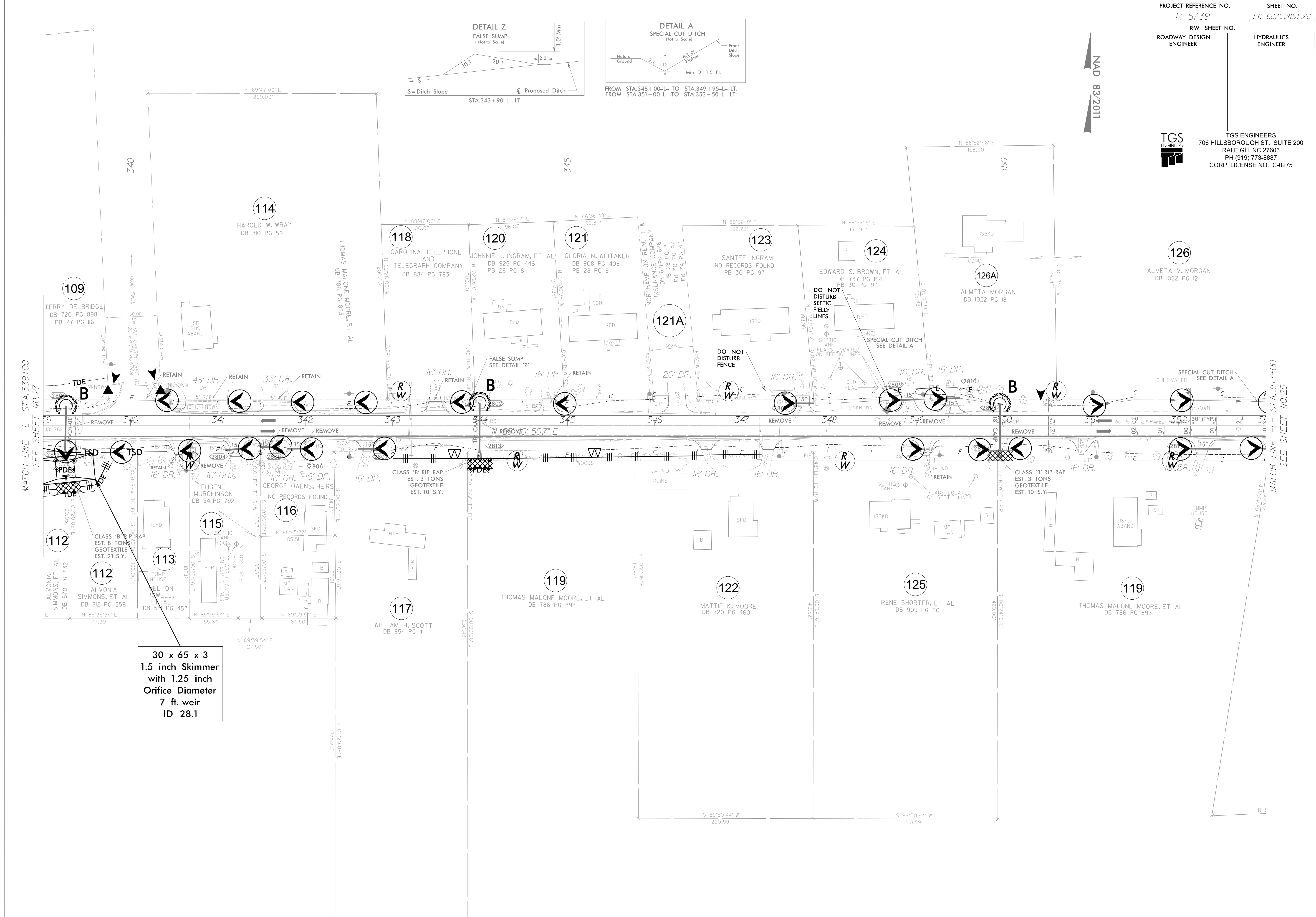
-L-

PI Sta 311+89.87	PI Sta 320+26.86
$\Delta = 0^\circ 53' 30.1''$ (RT)	$\Delta = 0^\circ 08' 20.1''$ (RT)
D = 0' 28' 38.9"	D = 0' 17' 11.3"
L = 186.76'	L = 48.49'
T = 93.38'	T = 24.24'
R = 12,000.00'	R = 20,000.00'
SE = NC	SE = NC
V = 55 mph	V = 55 mph

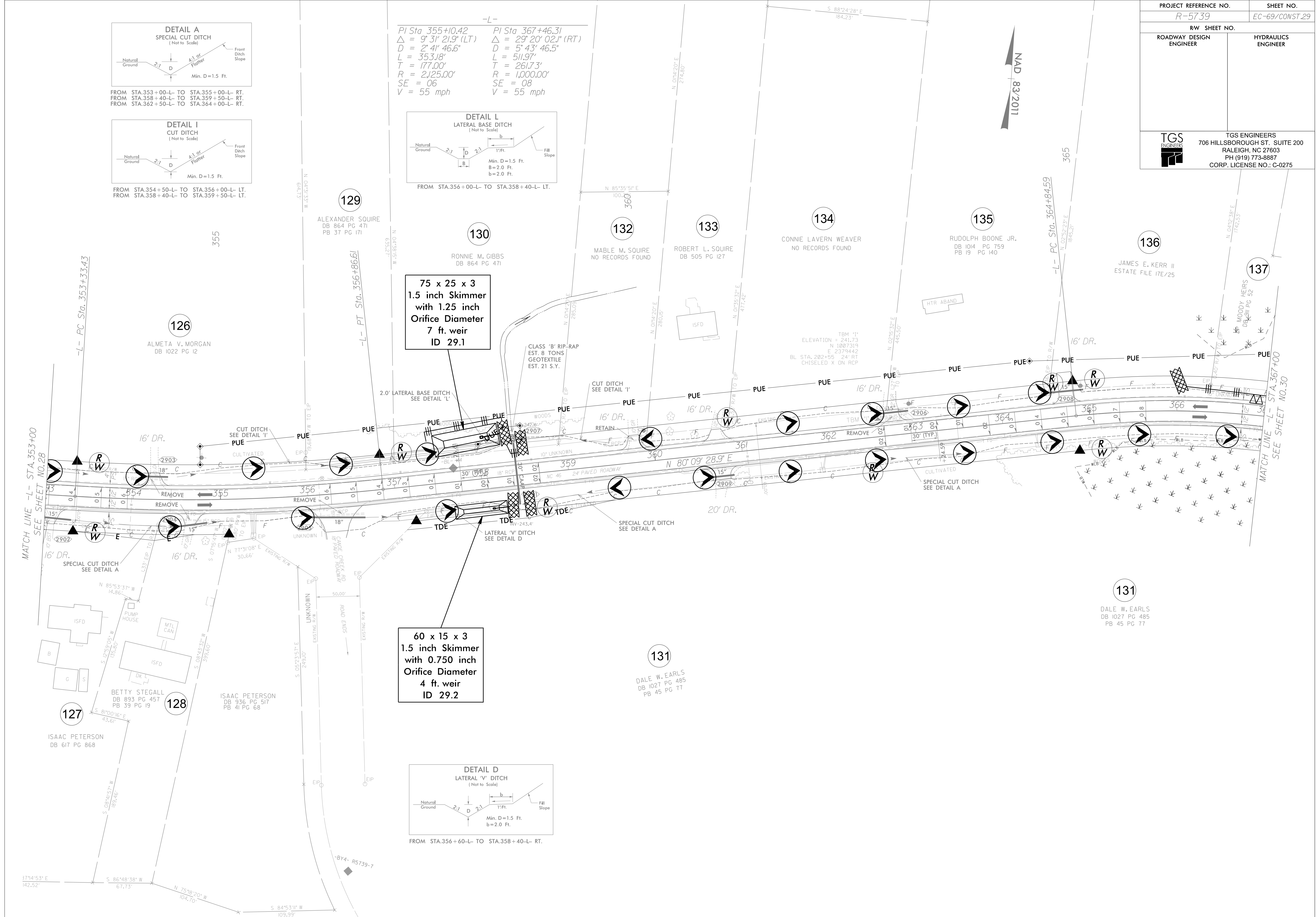


NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-68/CONST.28
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275



PROJECT REFERENCE NO.		SHEET NO.	
R-5739		EC-69/CONST.29	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		TGS ENGINEERS	
		706 HILLSBOROUGH ST., SUITE 200	
		RALEIGH, NC 27603	
		PH (919) 773-8887	
		CORP. LICENSE NO.: C-0275	



137 JP MOODY HEIRS DB 911 PG 52

138 HUMBERTO TAMAYO GARCIA DB 743 PG 348 PB 6 PG 29

139 KATHY S. HARRIS, ET AL DB 926 PG 20 PB 21 PG 17

140 MARY M. HEWITT, ET AL DB 941 PG 770 PB 41 PG 63

141 JEWEL T. WEAVER DB 661 PG 445

142 CLIFTON JEROME MOODY IIE-III

143 RENA MOODY, HEIRS NO RECORDS FOUND

144 INELL SQUIRE DB 1047 PG 154

145 GRADY JOHNSON, ET AL DB 730 PG 843

146 BALLARD T. OWENS JR DB 1058 PG 372 PB 46 PG 172

146A LORANDY LEE BROADY DB 1062 PG 666 PB 46 PG 172

147 DALE W. EARLS DB 1027 PG 485

148 TOM & JILL BROADY DB 1062 PG 666 PB 46 PG 172

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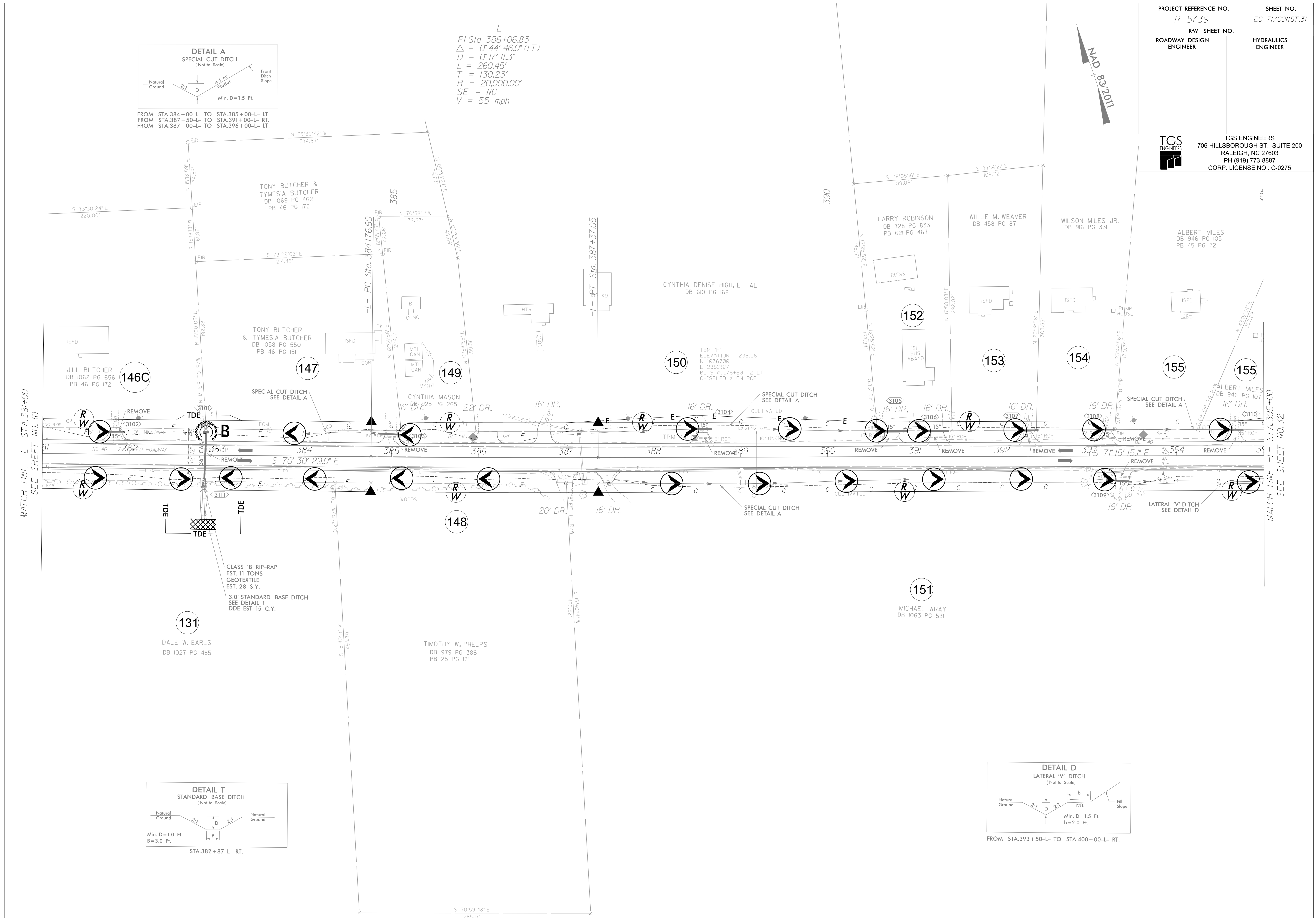
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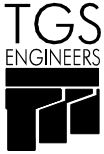
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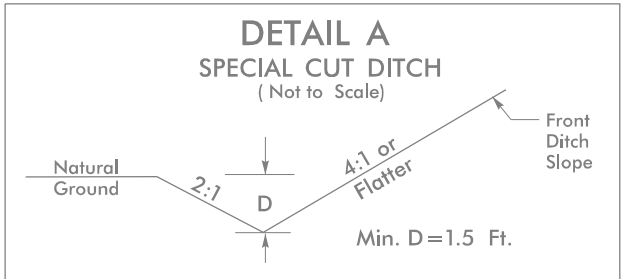
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533

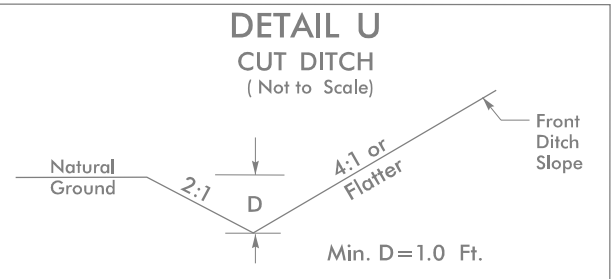
53



PROJECT REFERENCE NO.		SHEET NO.
R-5739		EC-74/CONST.34
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
		TGS ENGINEERS 706 HILLSBOROUGH ST., SUITE 200 RALEIGH, NC 27603 PH (919) 773-8887 CORP. LICENSE NO.: C-0275

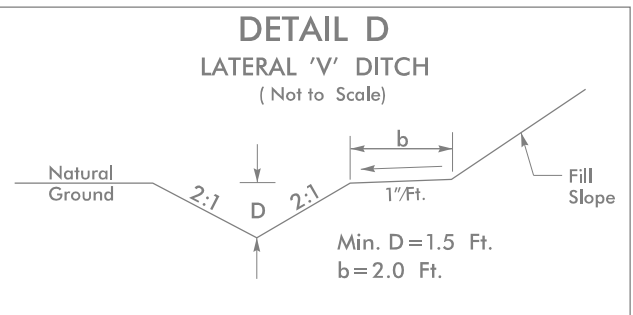


FROM STA.427+50-L- TO STA.429+50-L- RT.
FROM STA.427+50-L- TO STA.433+50-L- LT.
FROM STA.433+93-L- TO STA.439+00-L- LT.



FROM STA.424+50-L- TO STA.425+50-L- LT.

-L-
PI Sta 426+27.48
 $\Delta = 38^{\circ}11'43.8''$ (LT)
 $D = 2^{\circ}19'44.7''$
 $L = 1,639.93'$
 $T = 851.74'$
 $R = 2,460.00'$
 $SE = 08$
 $V = 55 \text{ mph}$



FROM STA.425+50-L- TO STA.427+50-L- LT.

