

7/2/99

PROJECT REFERENCE NO. R-2417BB		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER	SEAL 02116 4.15.04		
WETHERILL ENGINEERING		SEAL 09334 9.13.04	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION			
SUNGATE DESIGN GROUP, P.A.			
915 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258			

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CUMNOCK2"

WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 6516512853(M) EASTING: 19282652445(M)

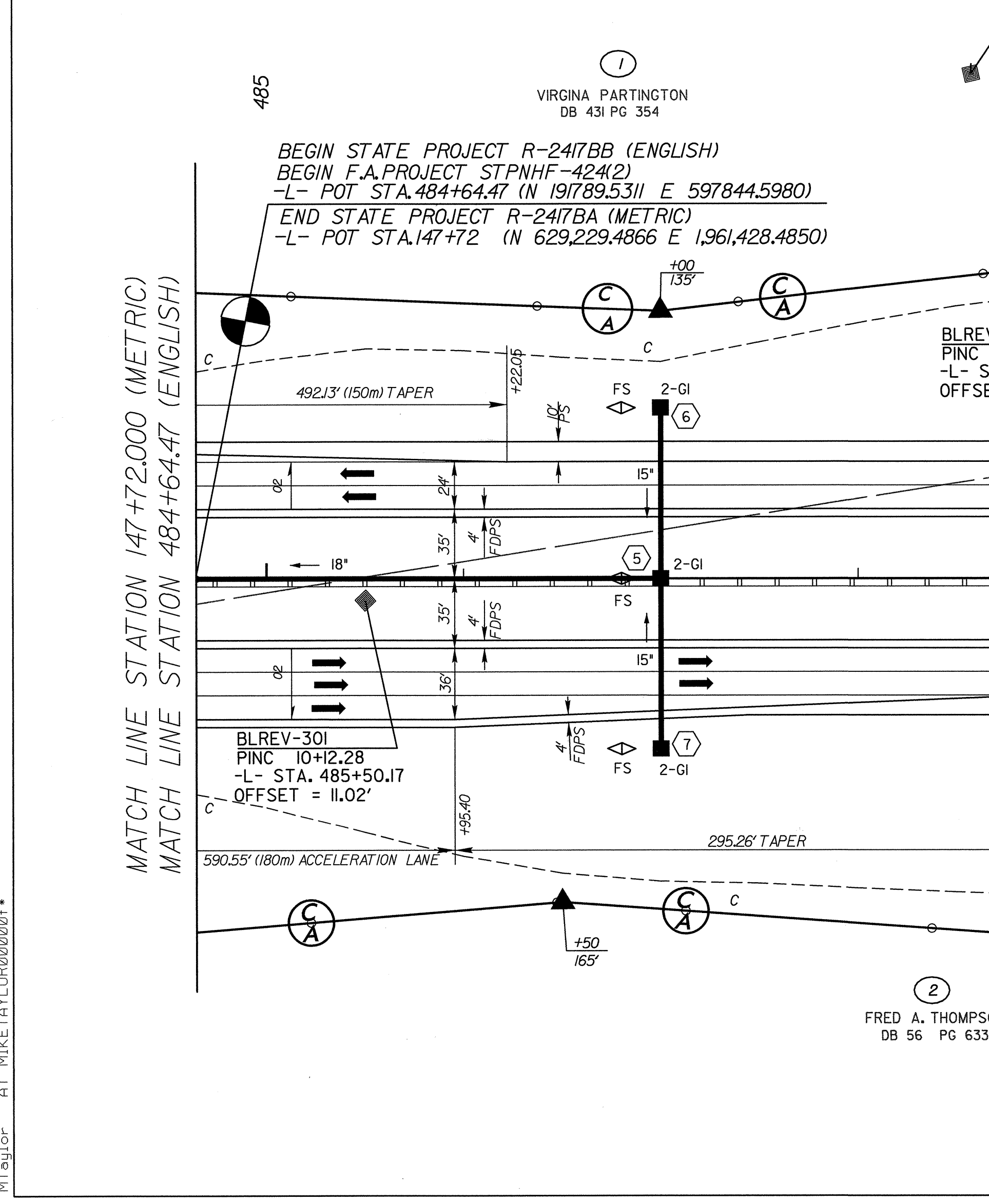
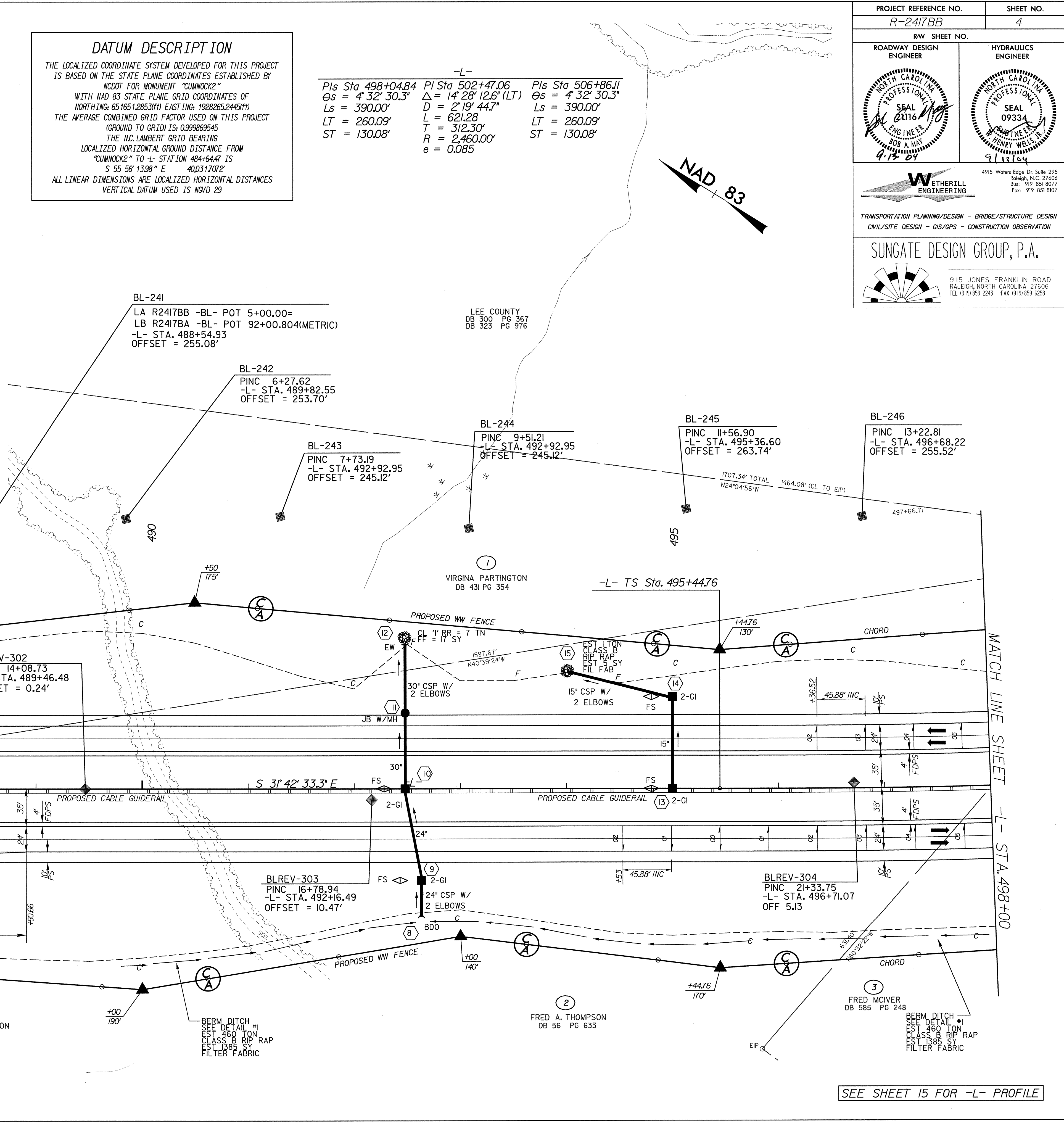
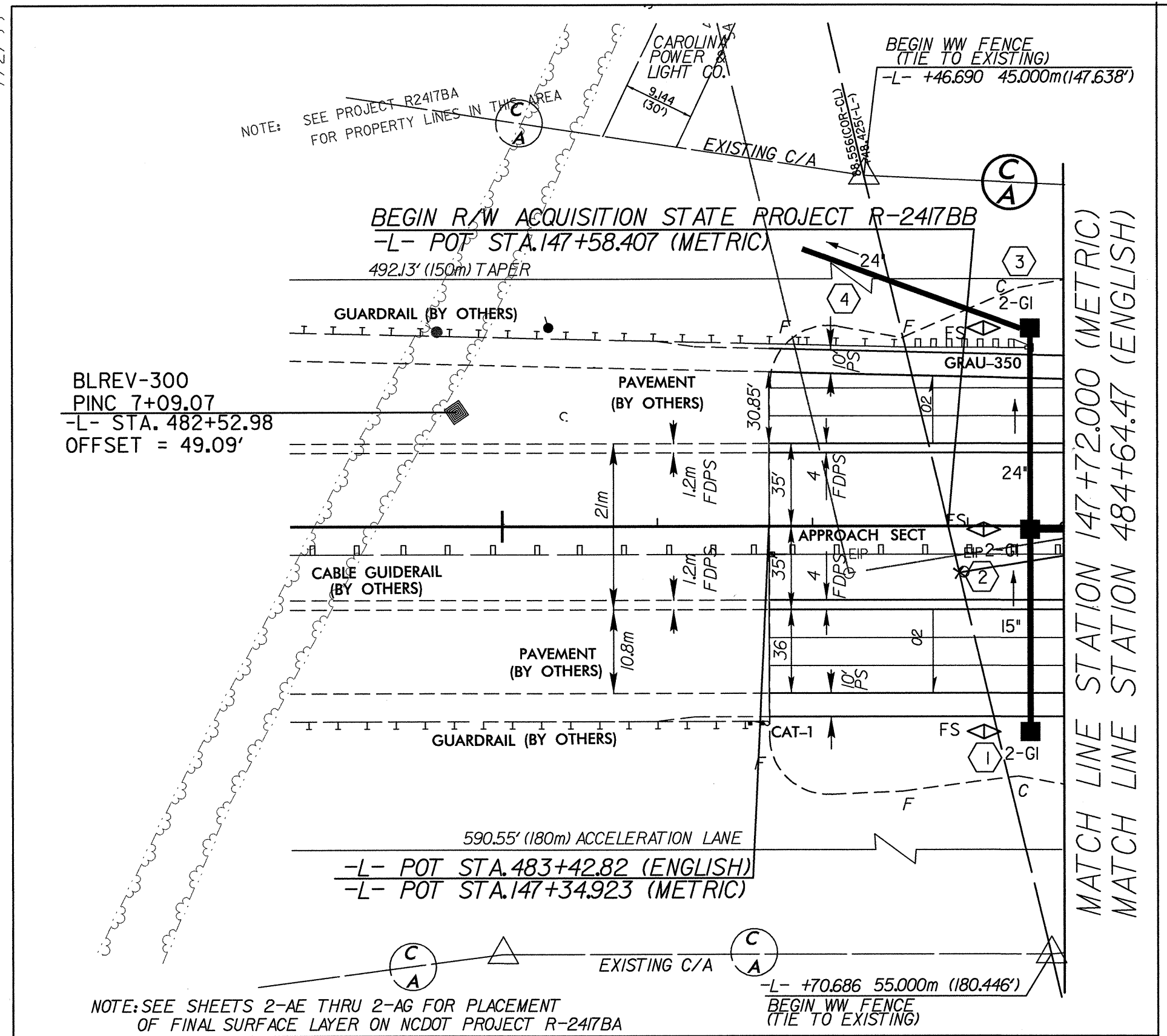
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99869545

THE N.C. LAMBERT GRID BEARING LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CUMNOCK2" TO -L- STATION 484+64.47 IS S 55° 56' 13.98" E 40.031707'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

-L-

PIs Sta 498+04.84	PI Sta 502+47.06	PIs Sta 506+86.11
$\Theta_s = 4' 32' 30.3"$	$\Delta = 14' 28' 12.6"$ (LT)	$\Theta_s = 4' 32' 30.3"$
$L_s = 390.00'$	$D = 2' 19' 44.7"$	$L_s = 390.00'$
$LT = 260.09'$	$L = 621.28'$	$LT = 260.09'$
$ST = 130.08'$	$T = 312.30'$	$ST = 130.08'$
	$R = 2,460.00'$	
	$e = 0.085$	



SEE SHEET 15 FOR -L- PROFILE

15-JUL-2004 13:30
 R:\R-2417bb\Drawings\Plan\2417bb_RDY_psh04.dgn
 PLOT BY: MTK
 PLOT AT: MIKE TAYLOR