NO.	DELTA	RADIUS	ARC	TAN	CHD. BRG.	CHORD
C- 1	18°30'01"	601.73	194.29	98.00'	S10°52'58"W	193.45

EXISTING CURB AND GUTTER

EXISTING 12" WATERLINE

AERIAL CENTER PARKWAY

EXISTING C.B.

STA 0+00

S20°07'58"W 231.44'

PC STA 2+31.44

PT STA 3+25.73

F.E.S. #1

X FIRE HYD.

AERIAL CENTER TRACT 2

AERIAL CENTER TRACT 3

N/F STELLA WATKINS PROPERTY

PROPERTY OF WAKE COUNTY

SAINT ANDREWS LANE

PROJECT LINE

EXISTING 8" W/L

EXISTING 8"x4" GATE VALVE

RELOCATE EX. F.H.Y.D. TO THIS POSITION

EXISTING MANHOLE TOP 298.33 INV 292.08

PROPOSED 8" W/L PVC CLASS 350 DR 18

S01°13'57"E 901.13'

STA 8+42.43

STANDARD 90°-45° SITE DETAIL 3.10 SHT 3

1½" IRRIGATION METER

2" METER

MAINTENANCE BY OWNER

BACK FLOW PREVENTER AND VAULT USE WATTS REGULATOR PRODUCT LF 909 SEE DETAIL 9.97 3

PROPOSED BLOW OFF & VALVE WESTBROOK DETAIL 4.04 SHT 3

3/4" FENCE TYP. 10 #6 (DETAIL 8.01 SHT 3)

180 LF

R=20

5 HYD w/6" GATE VALVE

SILT FENCE

20' EASEMENT

10' DRAINAGE EASEMENT

Future R/W

CB #3

CB #4

CB #5

CB #6

Note - THE CUL DE SAC IS INTENDED TO BE TEMPORARY. A ENTRANCE FOR THE NEXT BUILDING WILL BE PLACED IN ITS LOCATION SAVING AS MUCH OF THE ASPHALT AND CURB AS POSSIBLE.

60' RIGHT OF WAY
35' ROADWAY SECTION

RUNOFF CALCULATIONS AND PIPE FLOW CHART
RATIONAL METHOD WHERE Q=CIA, INTERVAL 25 YR, Tc= 5 MIN, i= 8.5 in/hr, MANNINGS n= 0.125

STRUCTURE	AREA	C	I FLOW	+FLOW PREV	TOTAL FLOW	OUTFALL	SLOPE	I.E. In	I.E. Out	TOP EL.	INV EL.
CB 3	0.27	0.9	10.91		10.91	24"	0.8	7.08	1.30	298.0	292.7
CB 4	0.27	0.9	1.82	15.81	17.72	24"	0.8	7.08	1.30	298.0	292.7
PES 2	0.22	0.9	1.49	17.73	19.21	24"	0.8	7.51	1.41	292.4	286.16
PES 1					19.21		0.5	7.08	1.50	292.5	286.12
								7.58	1.50		285.0
CB 5	0.45	0.9	3.8								
					3.8	15"	1.0	8.45	1.14	290.0	286.3
					3.8						285.0

* Q = Ki (MIN BASINS TO PES)

Note - UPON APPROVAL OF SITE STABILIZATION ASPHALT SEDIMENT BASIN #1 WILL INSTALL R.P.RAP DISSIPATOR PAD.

SEDIMENT BASIN #1
DRAINED AREA DRAINING TO BASIN 1.4Ac
SIZE REQ'D = 1.4Ac (1800 ft²) = 40'L x 15'W x 4'D
SEE DETAIL 8.03 SHEET 4
* A BASIN SHOULD TO ACCOMODATE 1.0 AC WAS APPROVED FOR THE COORDINATED MEDICAL SERVICE SITE. WE PROPOSED TO INCREASE ITS SIZE TO THE ABOVE DIMENSIONS.

OUTLET PROTECTION: V_a STONE DIA.
OUTLET PES 1 & 2 — SIZE (L x W x D): 15'x 7.5' x 12' — 6"
SEE DETAIL 4.10 SHT 3

CHANNEL PROTECTION Q_{10}
CHANNEL 1 Q_{10} 20.36 cfs, Slope = 0.5% Bottom W= 7.5' Side Slope = 2:1 n_1 = 0.035 V_a = 2.84 FPS
10 PROTECTION REQUIRED

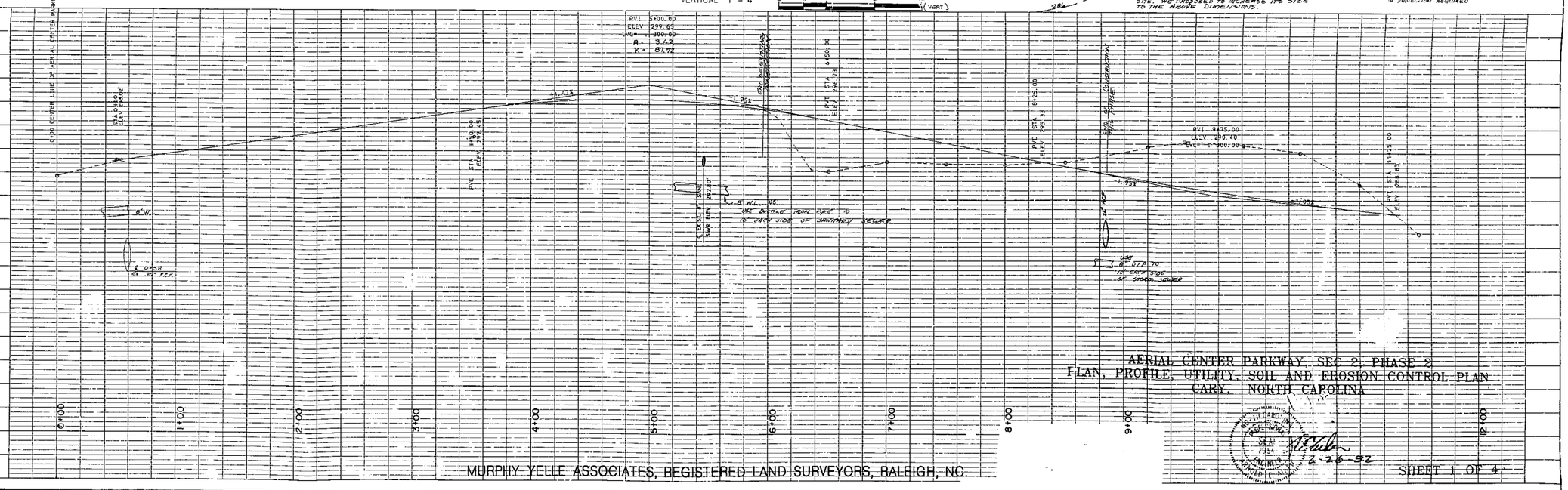
1. ALL WATER TAPS DO NOT CONFLICT WITH TREES PROPOSED LOCATION.
2. ALL CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH CURRENT TOWN OF CARY STANDARDS AND SPECIFICATIONS.
3. ALL LANDSCAPING IN MTE MEDIAN AND R/W WILL BE MAINTAINED BY THE DEVELOPER OR ADJOINER LOT OWNERS.
4. DUCTILE IRON PIPE WILL BE USED WHERE IT CROSSES UNDER STORM OR SANITARY SEWER TO A LENGTH OF 10' EACH SIDE OF THE SEWER.

COORDINATED MEDICAL SERVICES BUILDING

SCALE
HORIZONTAL 1" = 40'
VERTICAL 1" = 4'

PLAN — SURVEYED, PLOTTED, DRAWN, ALIGNMENT CHECKED, PROFILE CHECKED, CROSS SECTIONS CHECKED, NOTE BOOK, NO., DATE, BY

PROFILE — SURVEYED, PLOTTED, DRAWN, ALIGNMENT CHECKED, PROFILE CHECKED, CROSS SECTIONS CHECKED, NOTE BOOK, NO., DATE, BY



AERIAL CENTER PARKWAY, SEC 2, PHASE 2
PLAN, PROFILE, UTILITY, SOIL AND EROSION CONTROL PLAN
CARY, NORTH CAROLINA

MURPHY YELLE ASSOCIATES, REGISTERED LAND SURVEYORS, RALEIGH, NC.

2-26-92

SHEET 1 OF 4

Keuffel & Esser Company
48 7021 Made in U.S.A.

B5-283