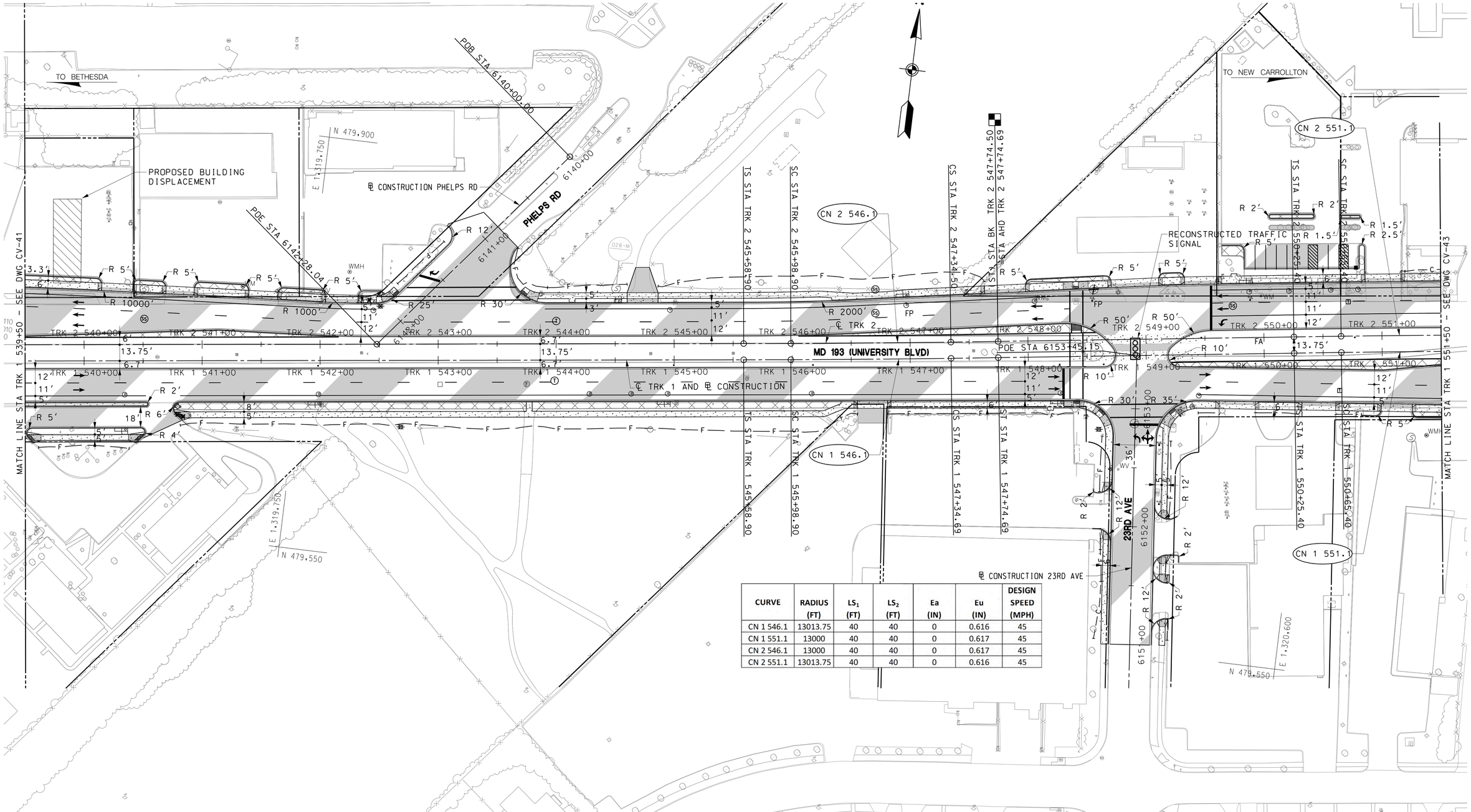

CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 546.1	13013.75	40	40	0	0.616	45
CN 1 551.1	13000	40	40	0	0.617	45
CN 2 546.1	13000	40	40	0	0.617	45
CN 2 551.1	13013.75	40	40	0	0.616	45

40′ 0 40′ 80′
SCALE: 1″=40′

DRAFT WORK-IN-PROGRESS

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NO.	DESCRIPTION	BY	DATE

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)
STA TRK 1 539+50 TO STA TRK 1 551+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–42
SHEET NO. 135 OF 497

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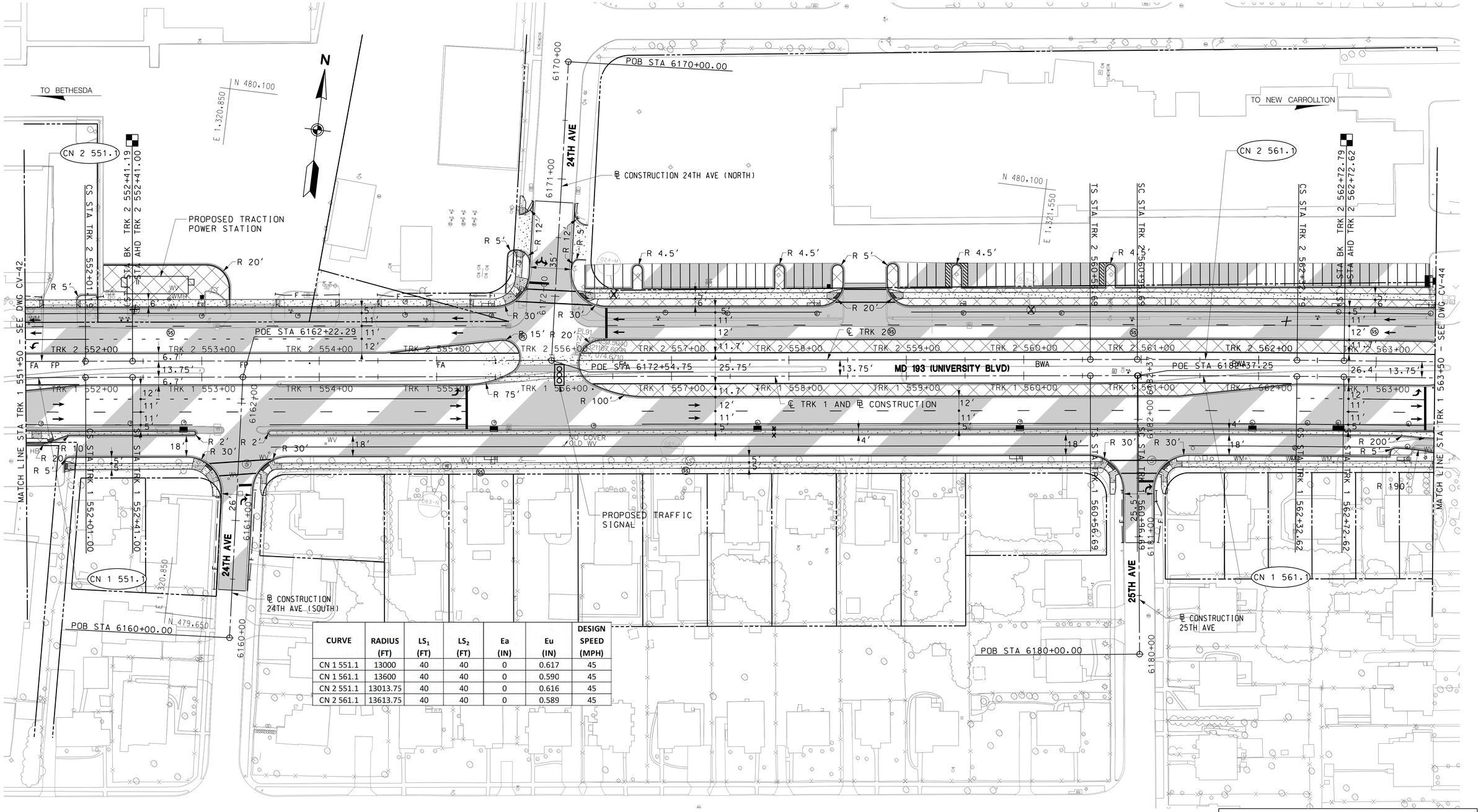
10/05/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 551.1	13000	40	40	0	0.617	45
CN 1 561.1	13600	40	40	0	0.590	45
CN 2 551.1	13013.75	40	40	0	0.616	45
CN 2 561.1	13613.75	40	40	0	0.589	45

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)

STA TRK 1 551+50 TO STA TRK 1 563+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-43

SHEET NO. 136 OF 497

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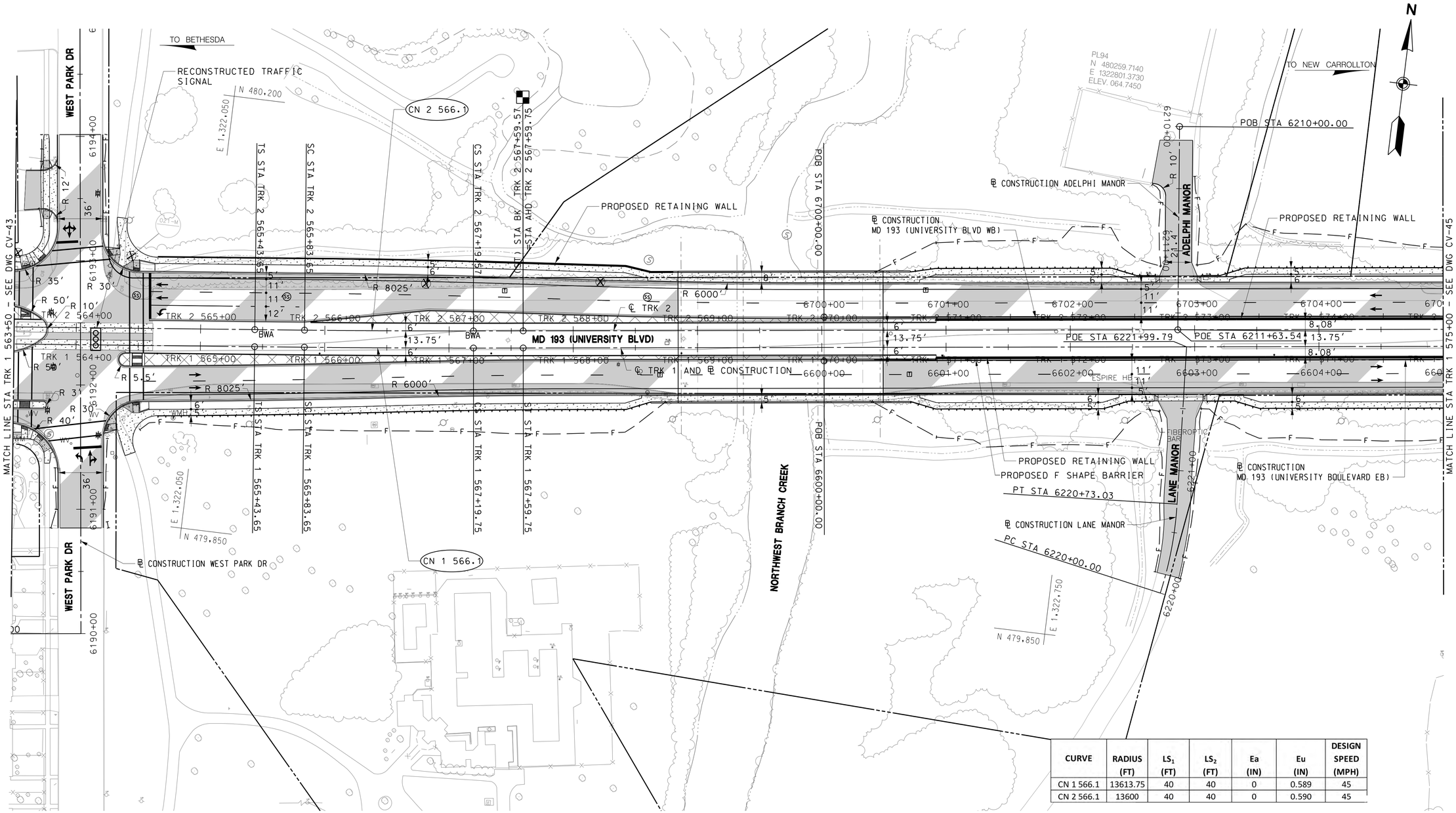
10/05/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 566.1	13613.75	40	40	0	0.589	45
CN 2 566.1	13600	40	40	0	0.590	45

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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NO.	DESCRIPTION	BY	DATE

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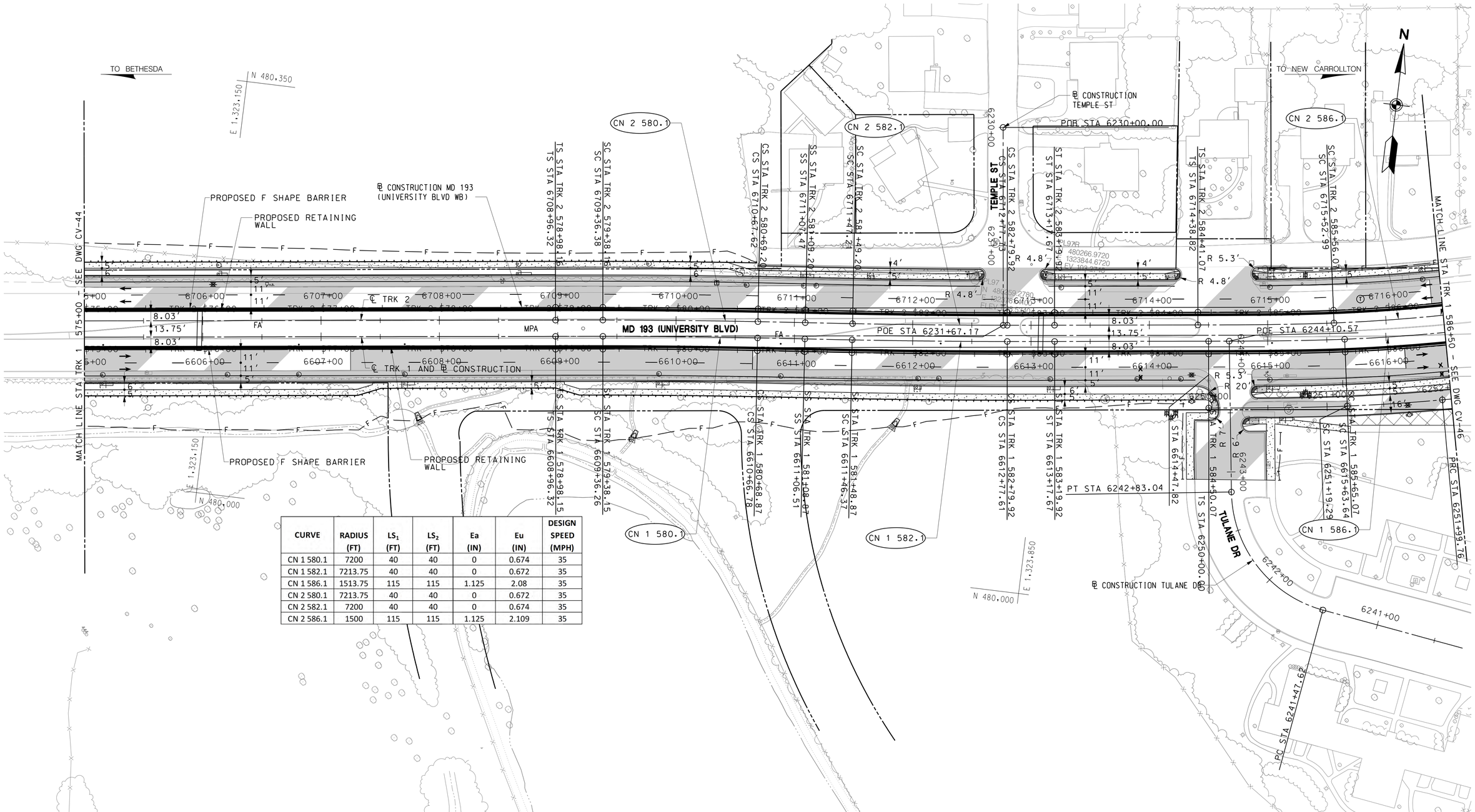
CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)
STA TRK 1 563+50 TO STA TRK 1 575+00

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-44
SHEET NO. 137 OF 497

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Civil\Sandbox\201305 08 FEIS\1042pCV6111.dgn
5/10/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 580.1	7200	40	40	0	0.674	35
CN 1 582.1	7213.75	40	40	0	0.672	35
CN 1 586.1	1513.75	115	115	1.125	2.08	35
CN 2 580.1	7213.75	40	40	0	0.672	35
CN 2 582.1	7200	40	40	0	0.674	35
CN 2 586.1	1500	115	115	1.125	2.109	35

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)
STA TRK 1 575+00 TO STA TRK 1 586+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-45
SHEET NO. 138 OF 497

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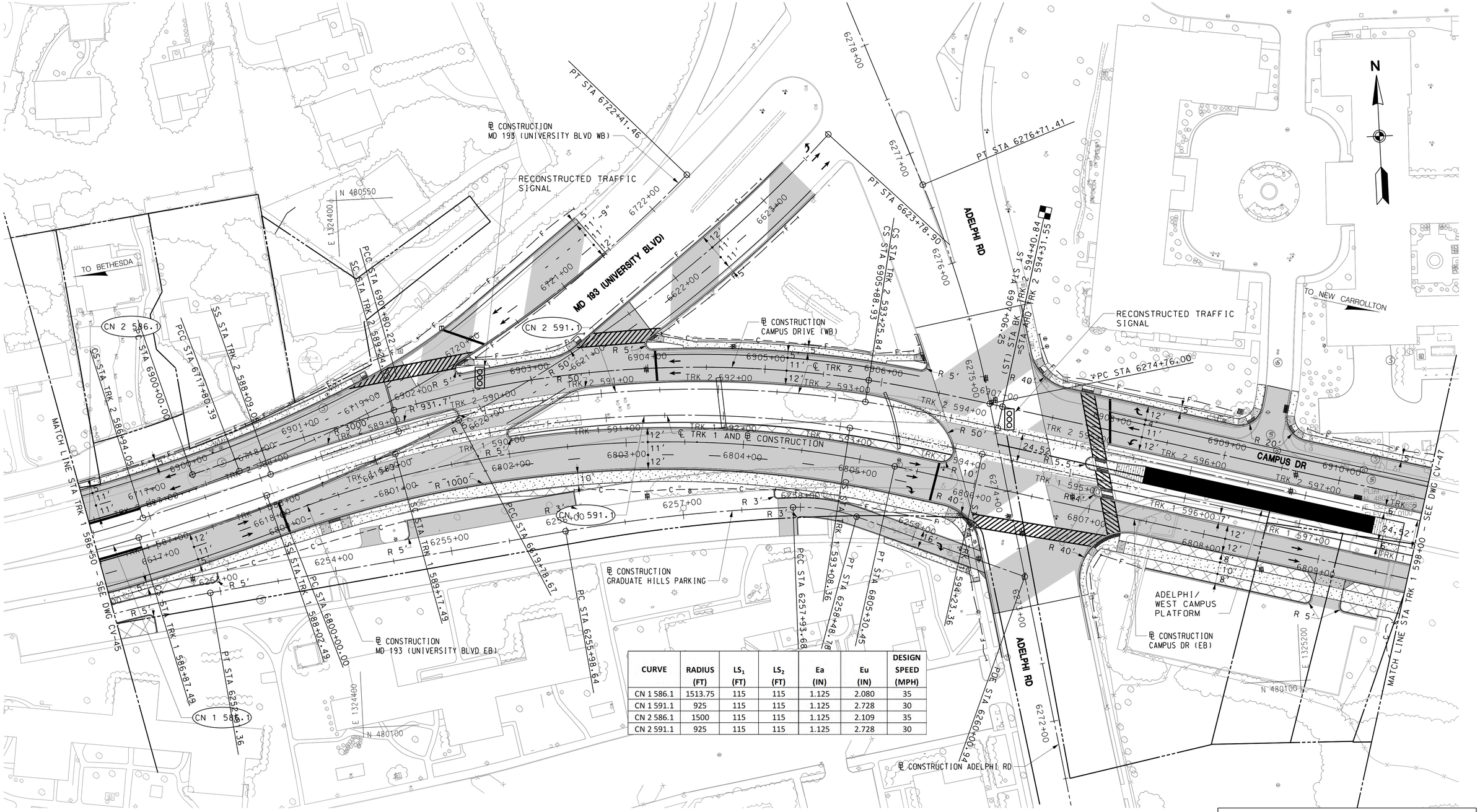
10/05/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 586.1	1513.75	115	115	1.125	2.080	35
CN 1 591.1	925	115	115	1.125	2.728	30
CN 2 586.1	1500	115	115	1.125	2.109	35
CN 2 591.1	925	115	115	1.125	2.728	30

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)

STA TRK 1 586+50 TO STA TRK 1 598+00

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-46

SHEET NO. 139 OF 497

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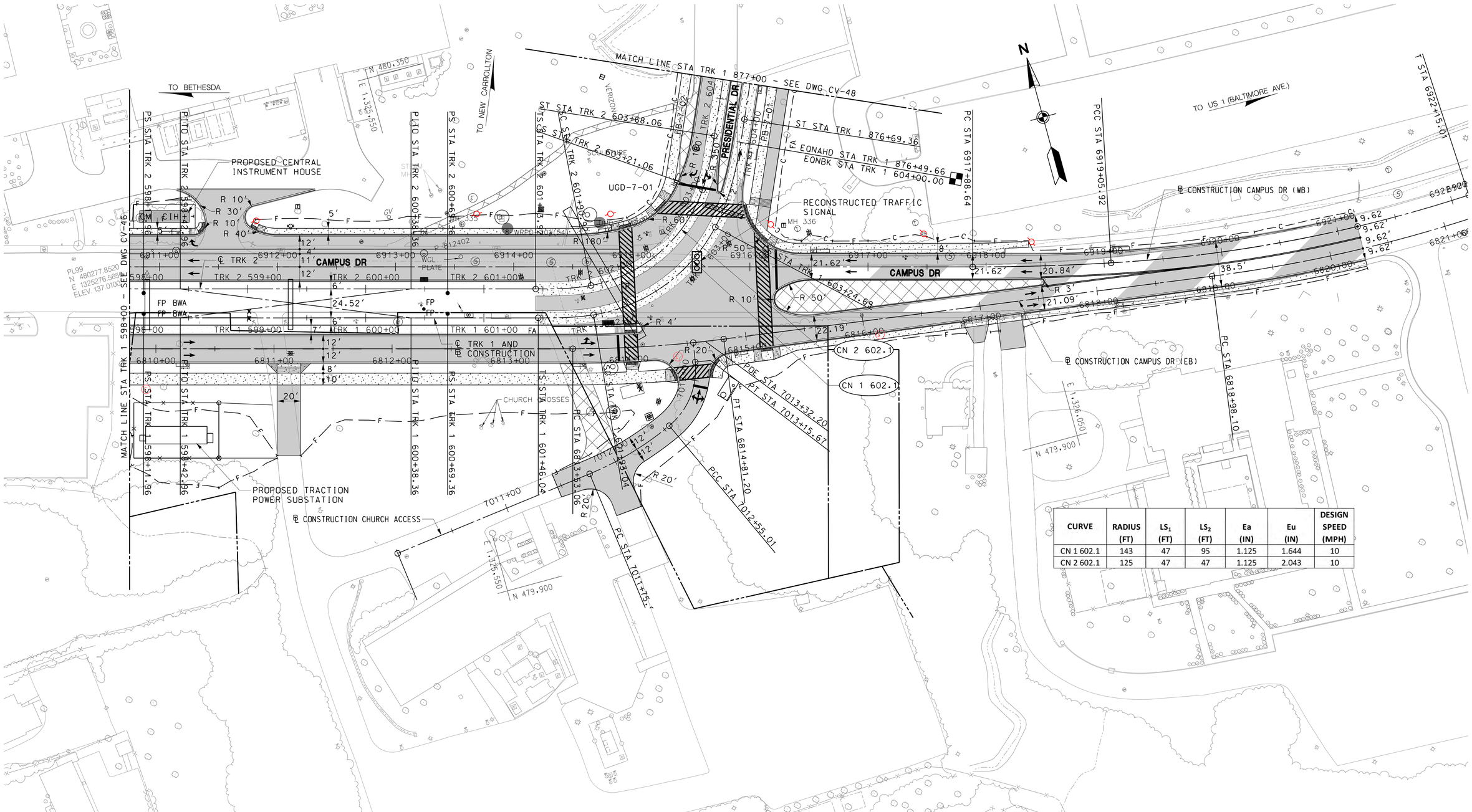
10/05/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 602.1	143	47	95	1.125	1.644	10
CN 2 602.1	125	47	47	1.125	2.043	10

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)
STA TRK 1 598+00 TO STA TRK 1 604+00

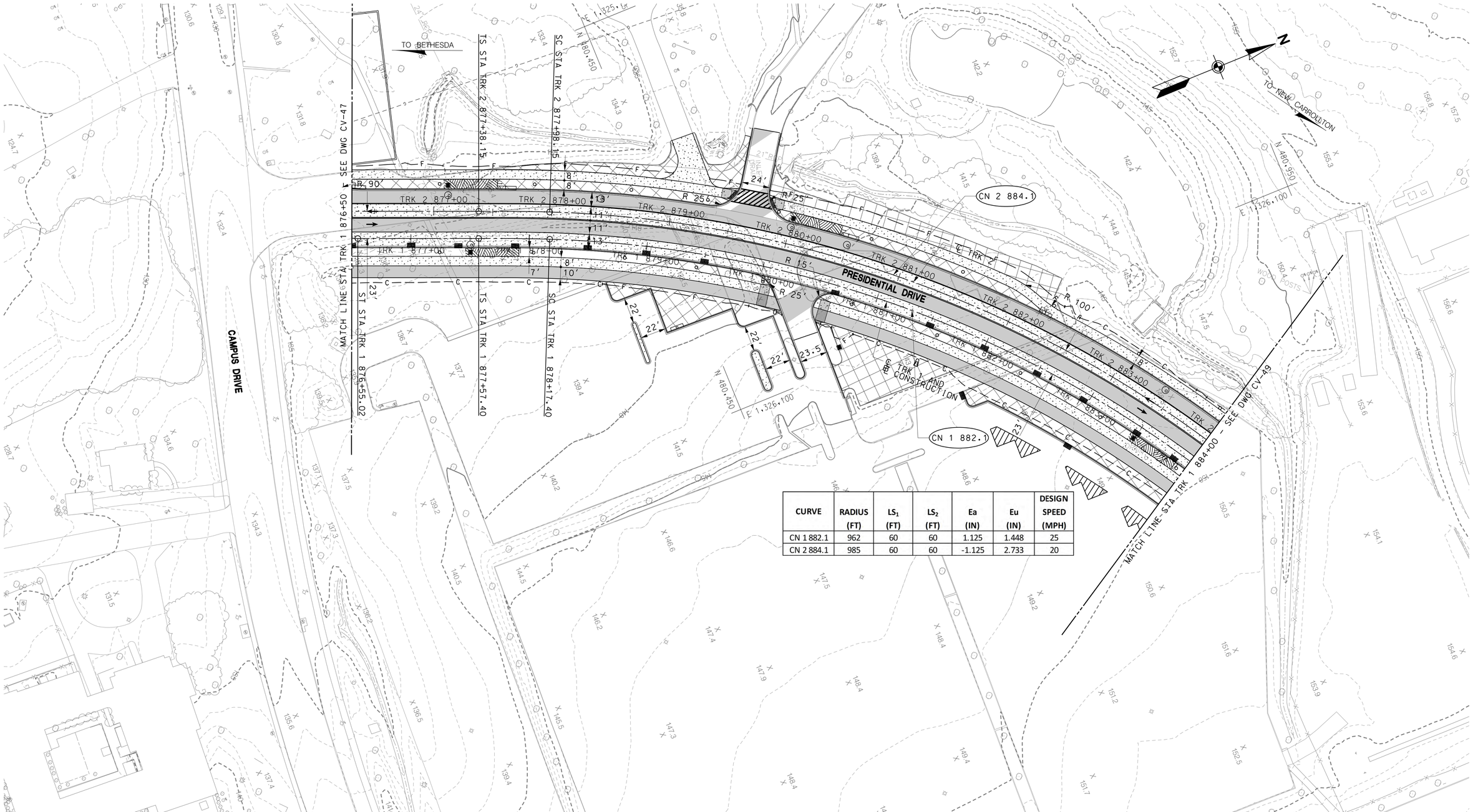
DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-47

SHEET NO. 140 OF 497

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 06-East\Civil\Sandbox\20130508 FEIS\1042pCV6114.dgn
5/10/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 882.1	962	60	60	1.125	1.448	25
CN 2 884.1	985	60	60	-1.125	2.733	20

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – PRESIDENTIAL DRIVE

STA TRK 1 876+50 TO STA TRK 1 884+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-48

SHEET NO. 141 OF 497

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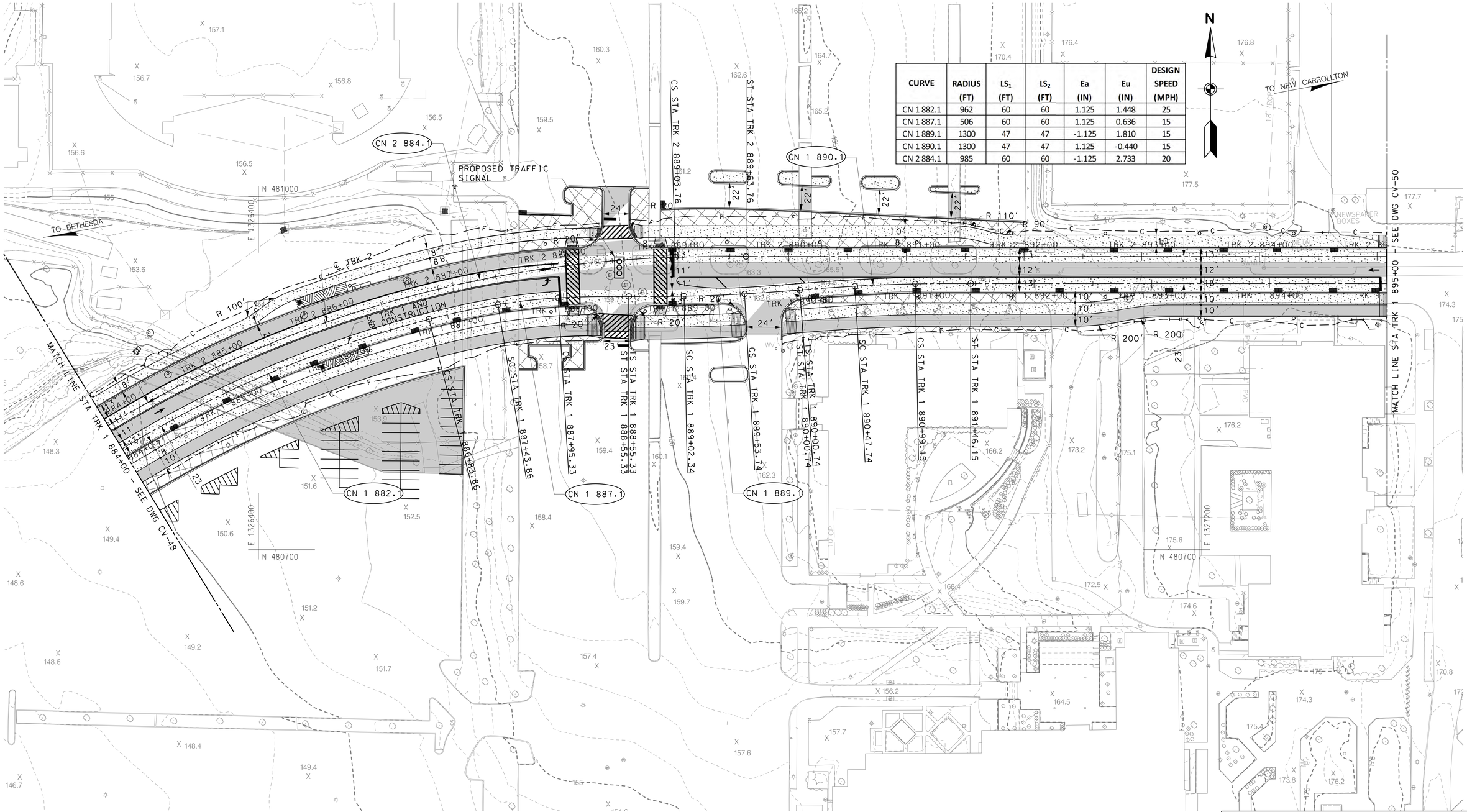
9/17/2012

CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 882.1	962	60	60	1.125	1.448	25
CN 1 887.1	506	60	60	1.125	0.636	15
CN 1 889.1	1300	47	47	-1.125	1.810	15
CN 1 890.1	1300	47	47	1.125	-0.440	15
CN 2 884.1	985	60	60	-1.125	2.733	20



40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – PRESIDENTIAL DRIVE

STA TRK 1 884+00 TO STA TRK 1 895+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-49

SHEET NO. 142 OF 497

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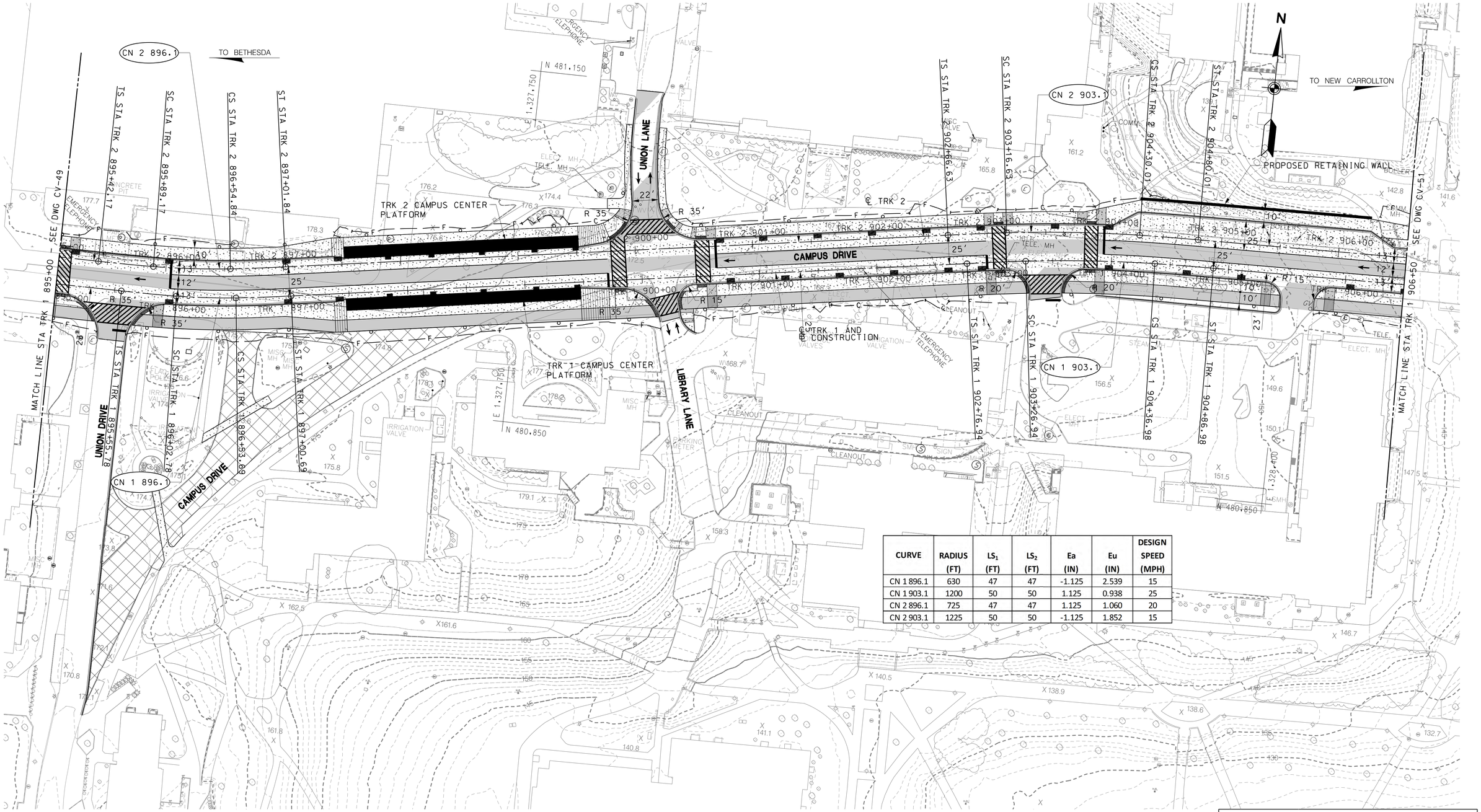
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 896.1	630	47	47	-1.125	2.539	15
CN 1 903.1	1200	50	50	1.125	0.938	25
CN 2 896.1	725	47	47	1.125	1.060	20
CN 2 903.1	1225	50	50	-1.125	1.852	15

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – CAMPUS DRIVE
STA TRK 1 895+00 TO STA TRK 1 906+50

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-50
SHEET NO. 143 OF 497

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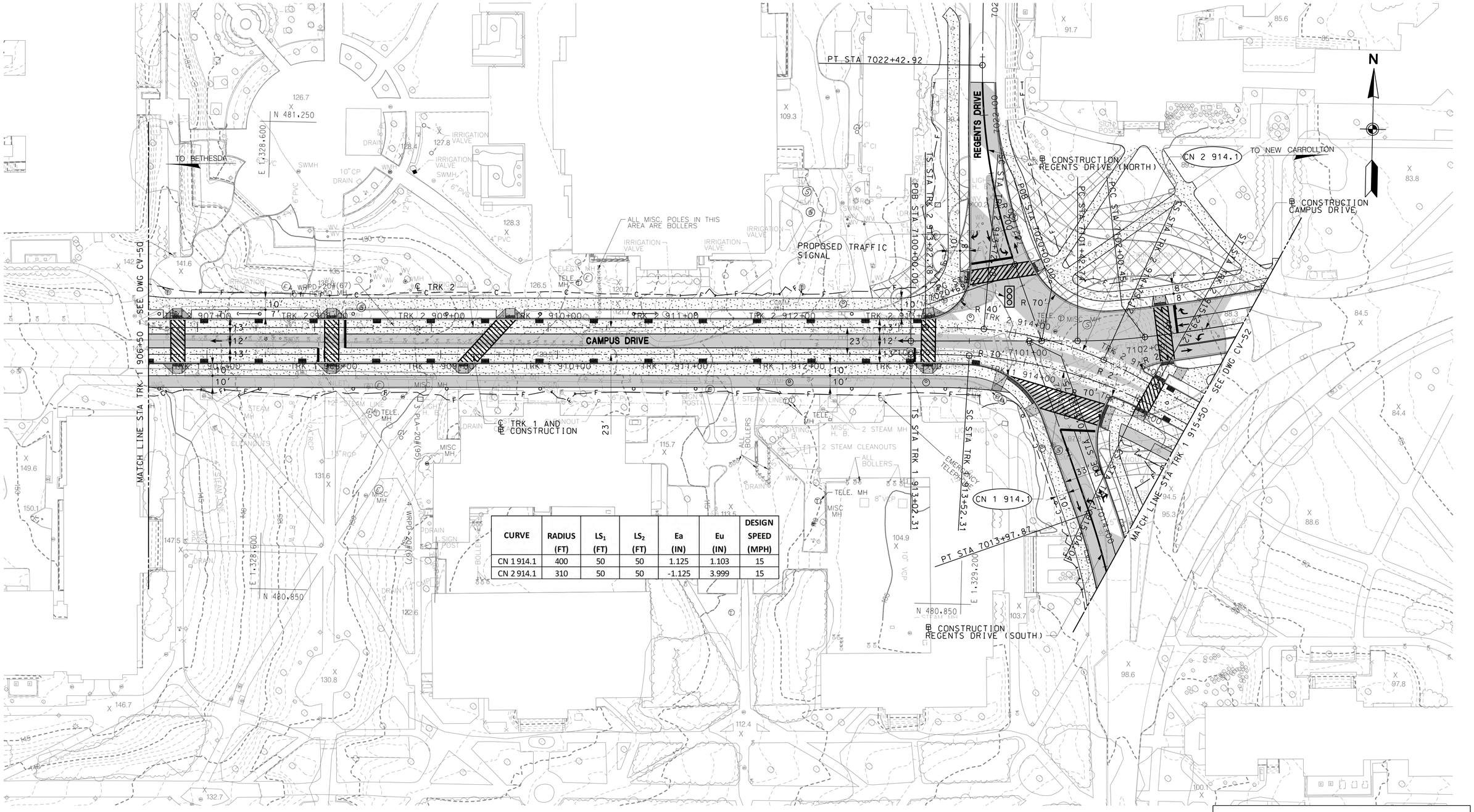
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 914.1	400	50	50	1.125	1.103	15
CN 2 914.1	310	50	50	-1.125	3.999	15

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – CAMPUS DRIVE

STA TRK 1 906+50 TO STA TRK 1 915+50

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-51

SHEET NO. 144 OF 497

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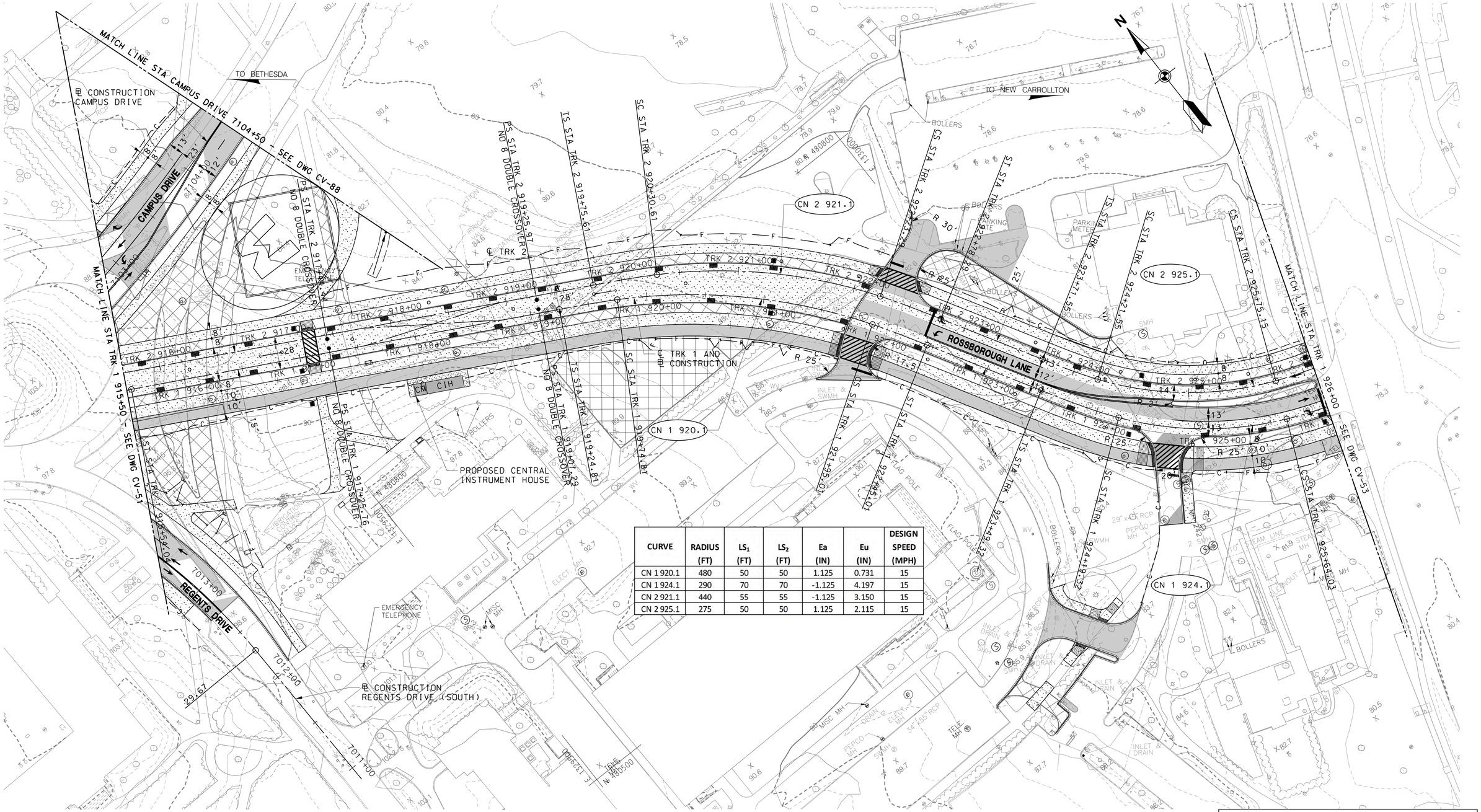
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 920.1	480	50	50	1.125	0.731	15
CN 1 924.1	290	70	70	-1.125	4.197	15
CN 2 921.1	440	55	55	-1.125	3.150	15
CN 2 925.1	275	50	50	1.125	2.115	15

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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NO.	DESCRIPTION	BY	DATE

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – ROSSBOROUGH LANE

STA TRK 1 915+50 TO STA TRK 1 926+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-52

SHEET NO. 145 OF 497

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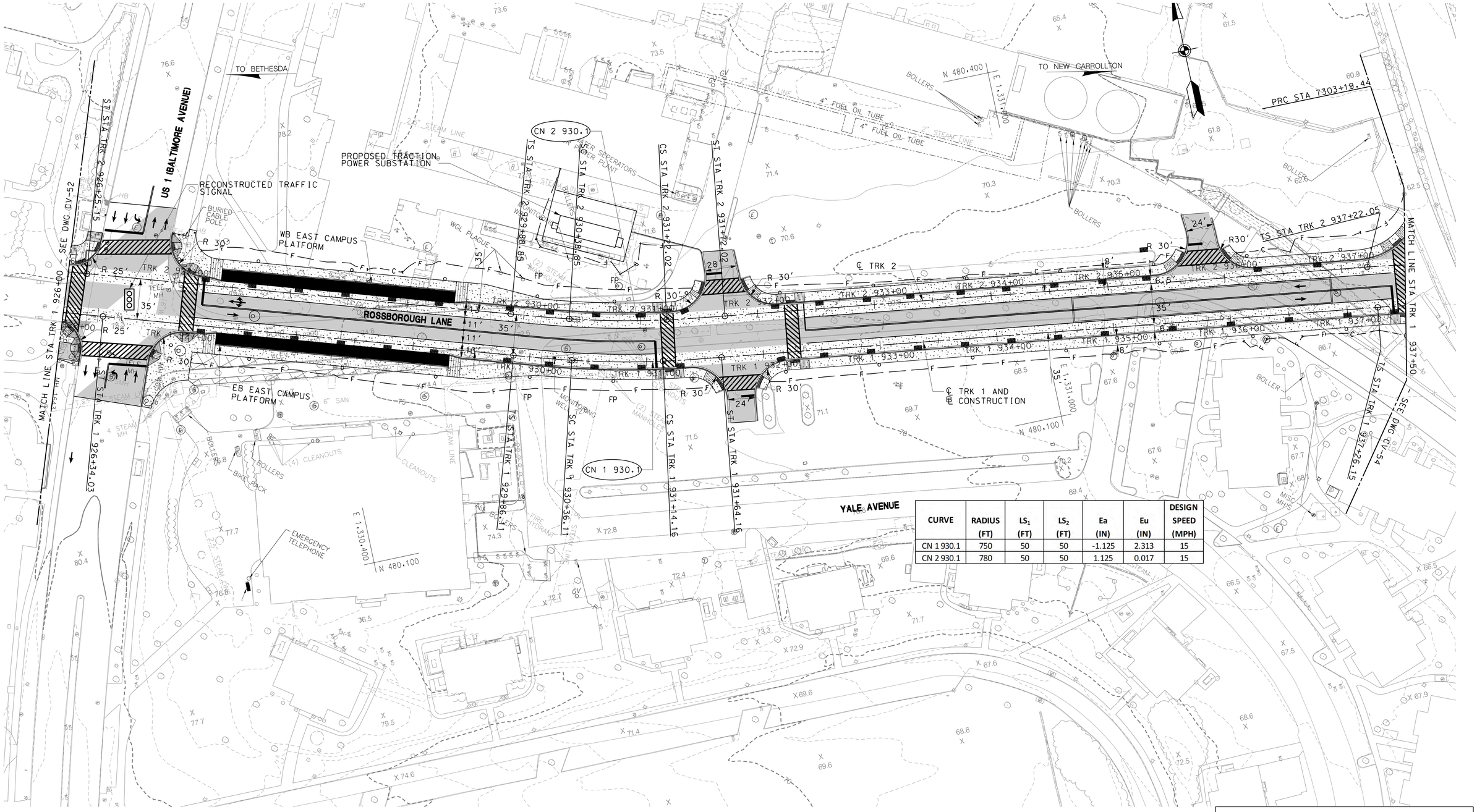
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 930.1	750	50	50	-1.125	2.313	15
CN 2 930.1	780	50	50	1.125	0.017	15

40′ 0 40′ 80′
SCALE: 1″=40′

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – ROSSOBOROUGH LANE
STA TRK 1 926+00 TO STA TRK 1 937+50

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–53
SHEET NO. 146 OF 497

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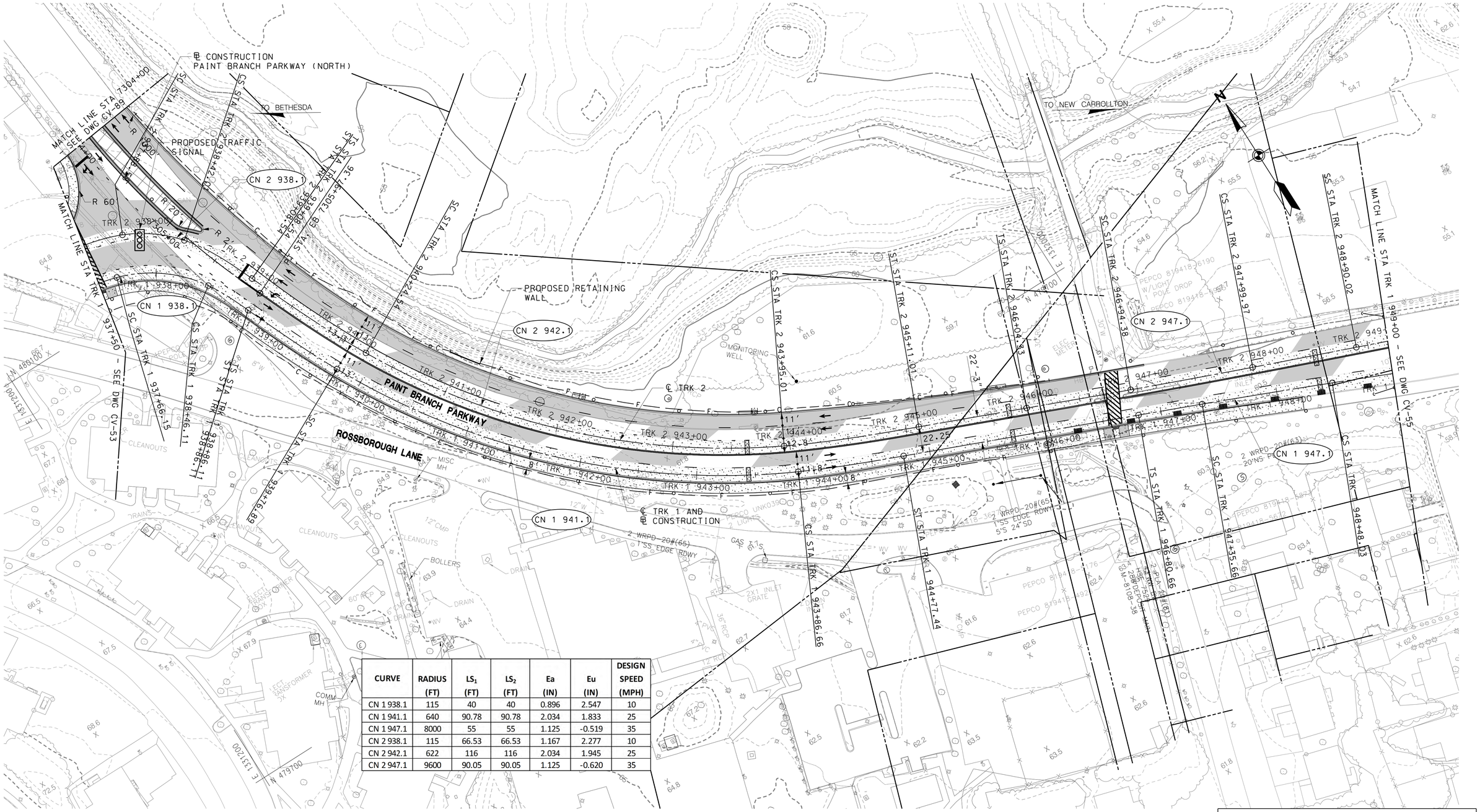
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 938.1	115	40	40	0.896	2.547	10
CN 1 941.1	640	90.78	90.78	2.034	1.833	25
CN 1 947.1	8000	55	55	1.125	-0.519	35
CN 2 938.1	115	66.53	66.53	1.167	2.277	10
CN 2 942.1	622	116	116	2.034	1.945	25
CN 2 947.1	9600	90.05	90.05	1.125	-0.620	35

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – PAINT BRANCH PARKWAY
STA TRK 1 937+50 TO STA TRK 1 949+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-54
SHEET NO. 147 OF 497

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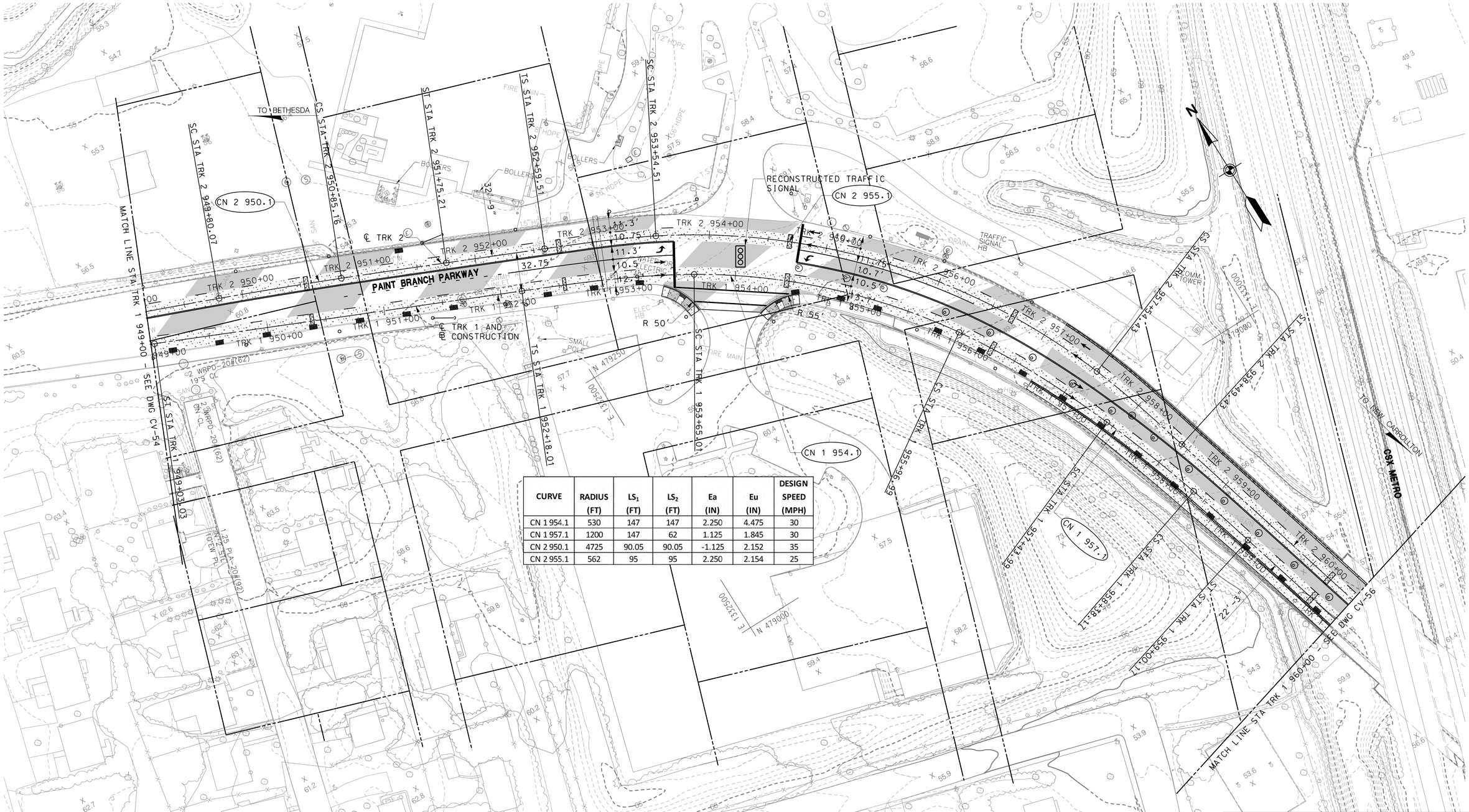
kenny\charles
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 954.1	530	147	147	2.250	4.475	30
CN 1 957.1	1200	147	62	1.125	1.845	30
CN 2 950.1	4725	90.05	90.05	-1.125	2.152	35
CN 2 955.1	562	95	95	2.250	2.154	25

DRAFT WORK-IN-PROGRESS

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License No. Expiration Date

NO.	DESCRIPTION	BY	DATE

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DESIGN DRAWN CHECK APPR

CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – PAINT BRANCH PARKWAY

STA TRK 1 949+00 TO STA TRK 1 960+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. CV–55

SHEET NO. 148 OF 497

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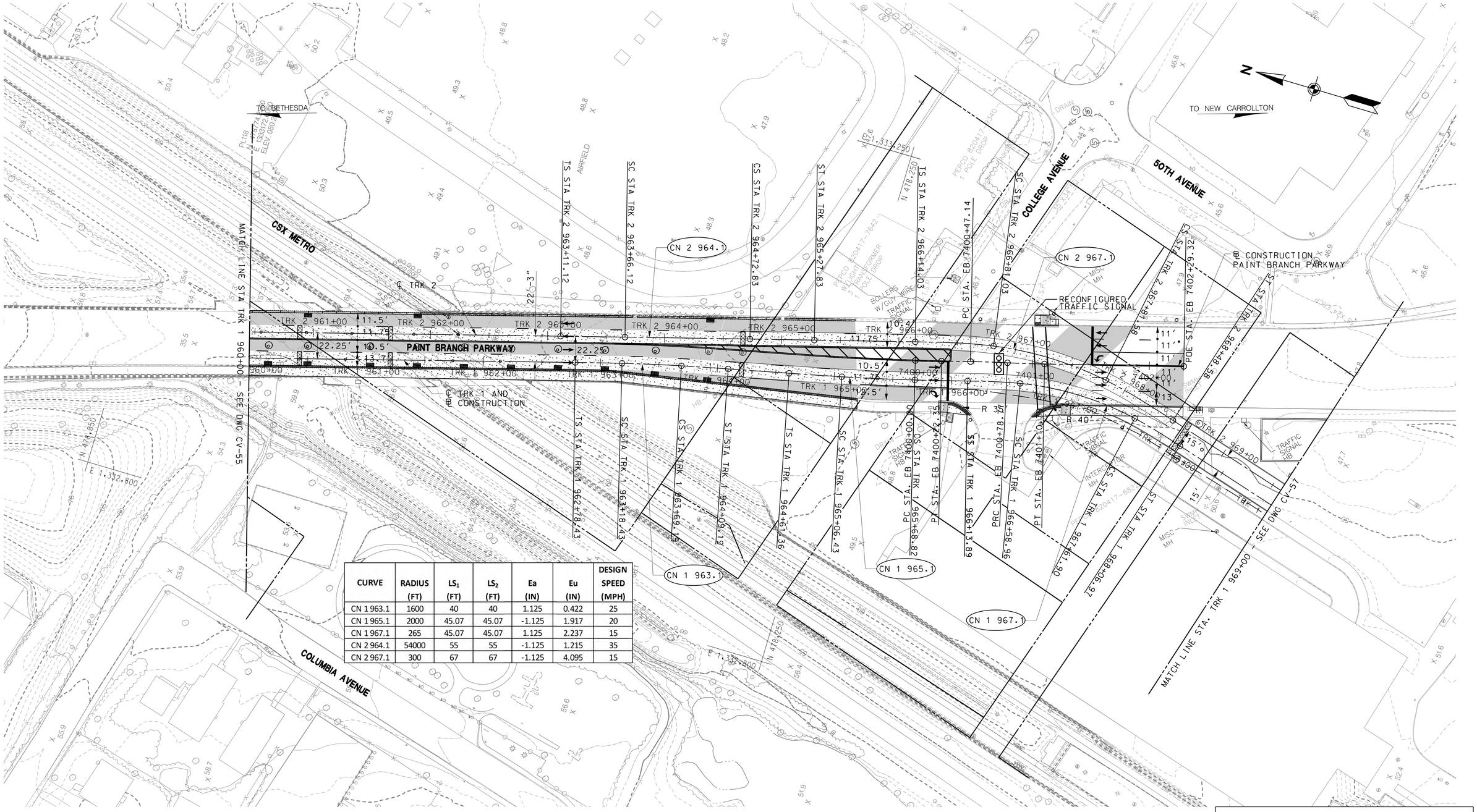
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 963.1	1600	40	40	1.125	0.422	25
CN 1 965.1	2000	45.07	45.07	-1.125	1.917	20
CN 1 967.1	265	45.07	45.07	1.125	2.237	15
CN 2 964.1	54000	55	55	-1.125	1.215	35
CN 2 967.1	300	67	67	-1.125	4.095	15

40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – PAINT BRANCH PARKWAY
STA TRK 1 960+00 TO STA TRK 1 969+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-56

SHEET NO. 149 OF 497

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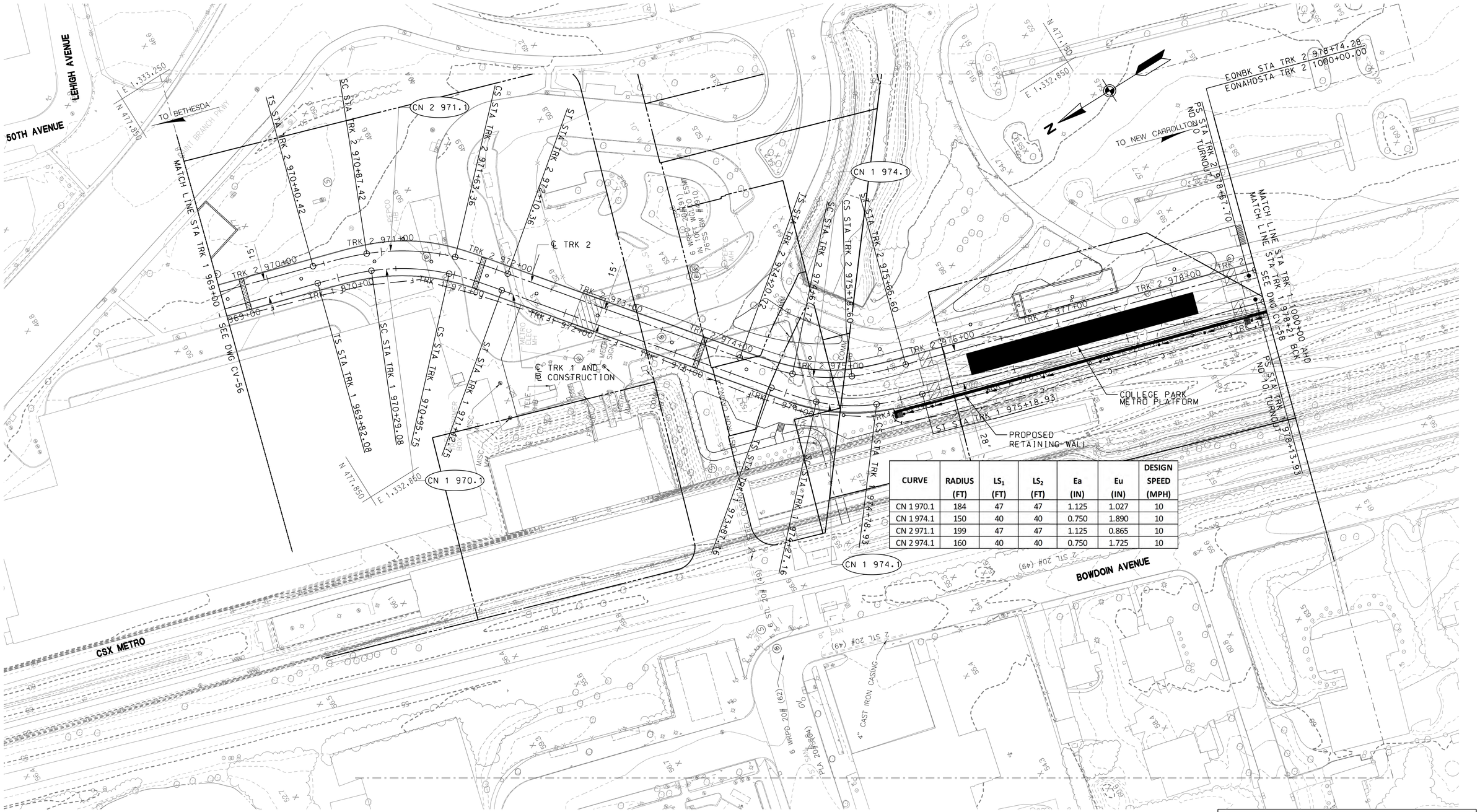
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 970.1	184	47	47	1.125	1.027	10
CN 1 974.1	150	40	40	0.750	1.890	10
CN 2 971.1	199	47	47	1.125	0.865	10
CN 2 974.1	160	40	40	0.750	1.725	10

40′ 0 40′ 80′
SCALE: 1"=40′

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NO.	DESCRIPTION	BY	DATE

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – COLLEGE PARK METRO

STA TRK 1 969+00 TO STA TRK 1 978+48

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-57

SHEET NO. 150 OF 497

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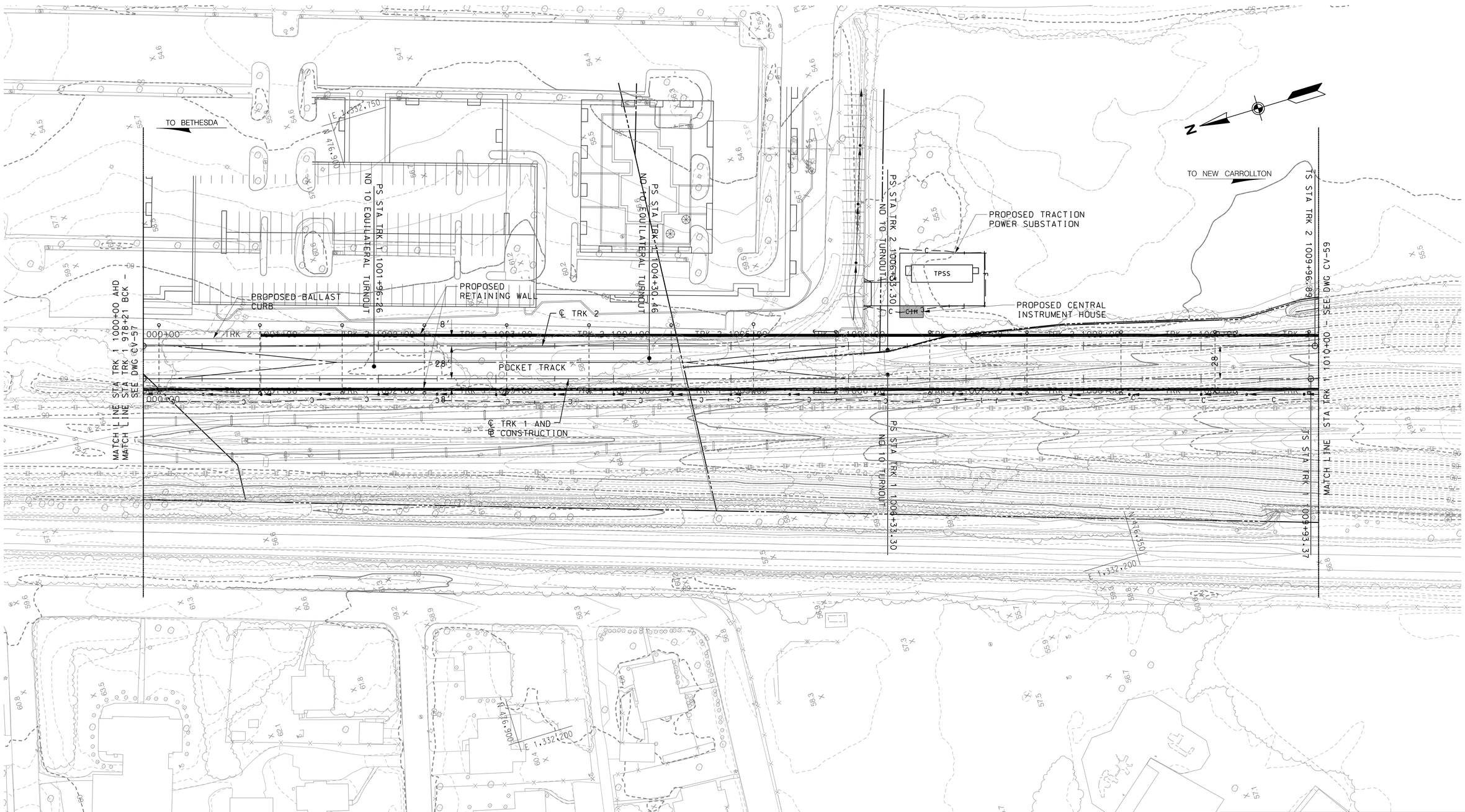
9/17/2012



40' 0 40' 80'
SCALE: 1"=40'

DRAFT WORK-IN-PROGRESS

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – COLLEGE PARK METRO
STA TRK 1 1000+00 TO STA TRK 1 1010+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-58

SHEET NO. 151 OF 497

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9/18/2012

CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 1012.1	329	136	136	3.250	4.273	25
CN 1 1017.1	601	115	115	2.750	3.180	30
CN 2 1012.1	315	146	146	3.500	4.357	25
CN 2 1016.1	615	115	115	2.750	3.045	30

40' 0 40' 80'
SCALE: 1"=40'

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – RIVER ROAD
STA TRK 1 1010+00 TO STA TRK 1 1021+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–59
SHEET NO. 152 OF 497

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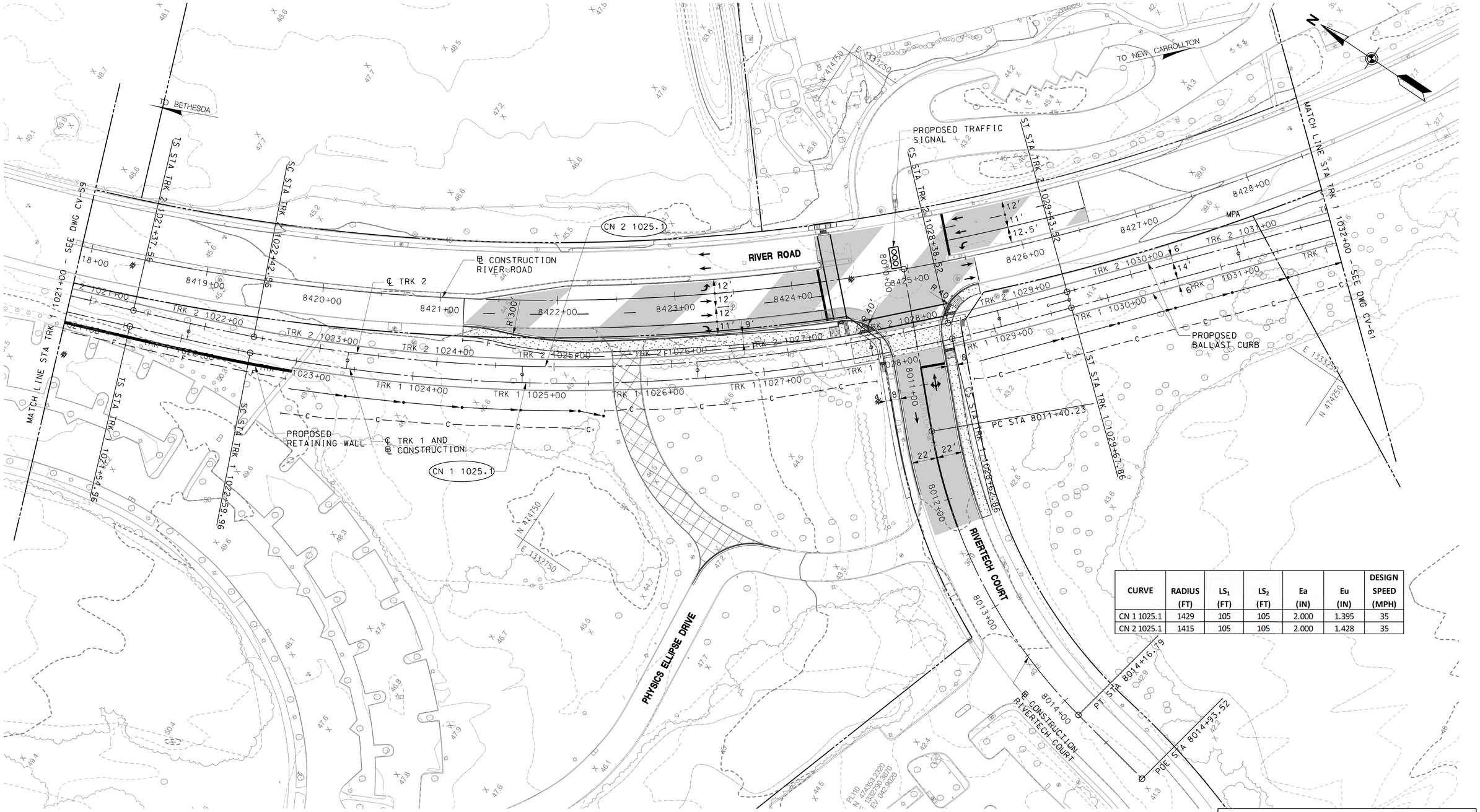
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 1025.1	1429	105	105	2.000	1.395	35
CN 2 1025.1	1415	105	105	2.000	1.428	35

40' 0 40' 80'
SCALE: 1" = 40'

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – RIVER ROAD
STA TRK 1 1021+00 TO STA TRK 1 1032+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–60
SHEET NO. 153 OF 497

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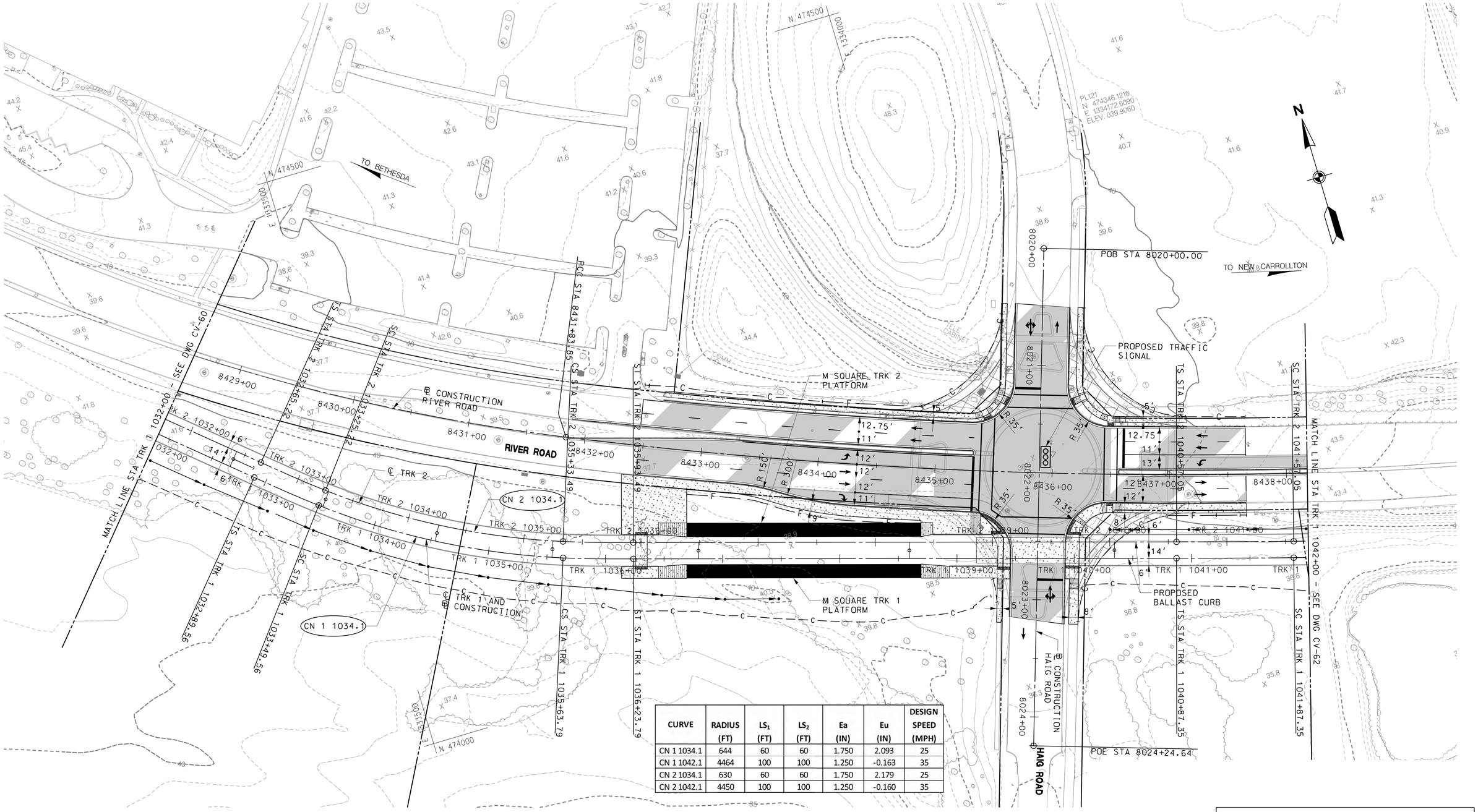
9/17/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 1034.1	644	60	60	1.750	2.093	25
CN 1 1042.1	4464	100	100	1.250	-0.163	35
CN 2 1034.1	630	60	60	1.750	2.179	25
CN 2 1042.1	4450	100	100	1.250	-0.160	35

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – RIVER ROAD

STA TRK 1 1032+00 TO STA TRK 1 1042+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. CV–61

SHEET NO. 154 OF 497

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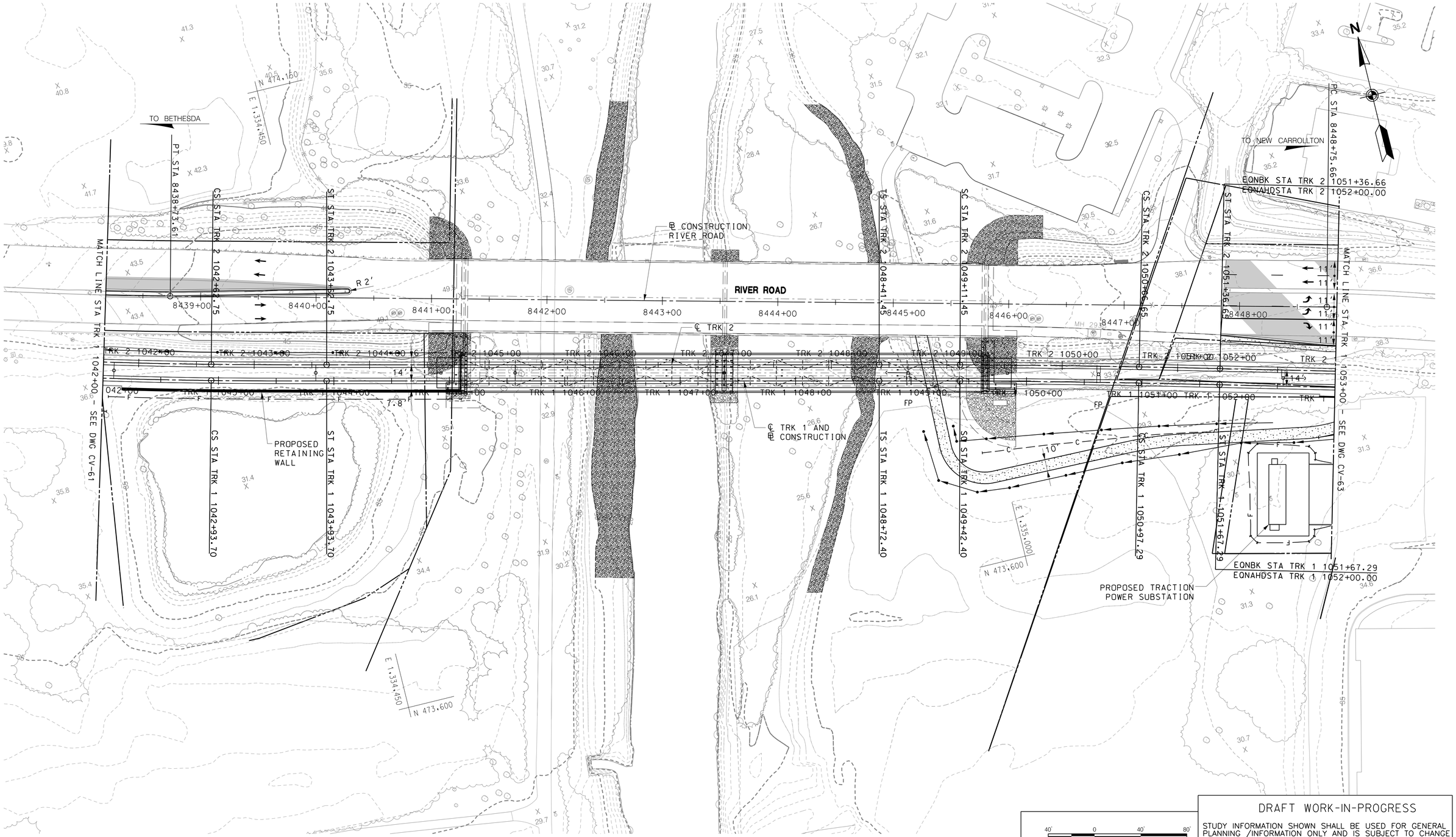

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40' 0 40' 80'
SCALE: 1" = 40'

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – RIVER ROAD

STA TRK 1 1042+00 TO STA TRK 1 1053+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-62

SHEET NO. 155 OF 497

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9/17/2012

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 1055.1	100	40	40	0.500	0.490	5
CN 2 1055.1	111	40	40	0.500	0.392	5
CN 1 1059.1	909	60	60	1.750	0.973	25
CN 2 1059.1	895	60	60	1.750	1.015	25

40′ 0 40′ 80′
SCALE: 1″=40′

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 201 (KENILWORTH AVE)
STA TRK 1 1053+00 TO STA TRK 1 1064+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-63
SHEET NO. 156 OF 497

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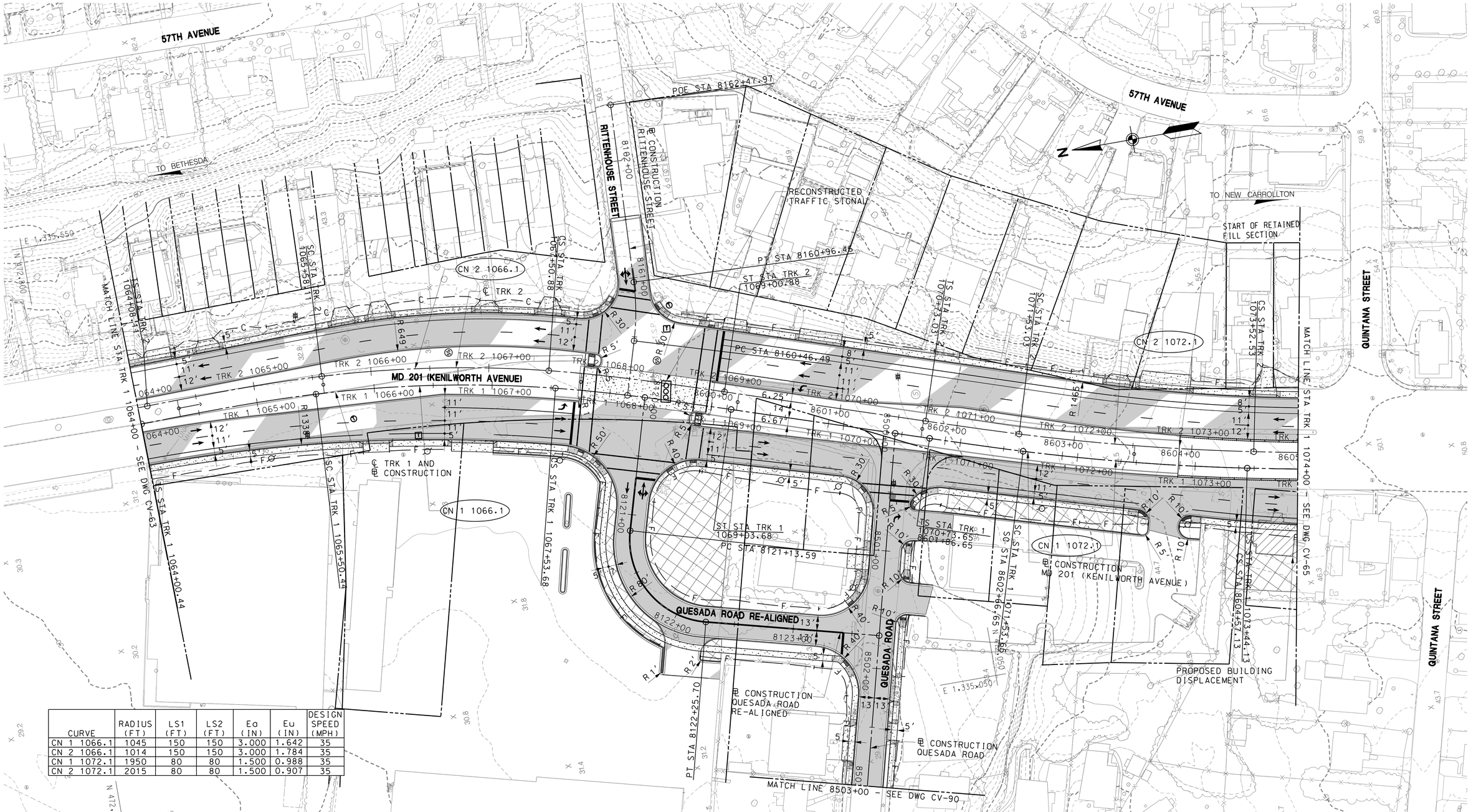
9/17/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 1066.1	1045	150	150	3.000	1.642	35
CN 2 1066.1	1014	150	150	3.000	1.784	35
CN 1 1072.1	1950	80	80	1.500	0.988	35
CN 2 1072.1	2015	80	80	1.500	0.907	35

40' 0 40' 80'
SCALE: 1"=40'

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 201 (KENILWORTH AVE)

STA TRK 1 1064+00 TO STA TRK 1 1074+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-64

SHEET NO. 157 OF 497

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9/18/2012