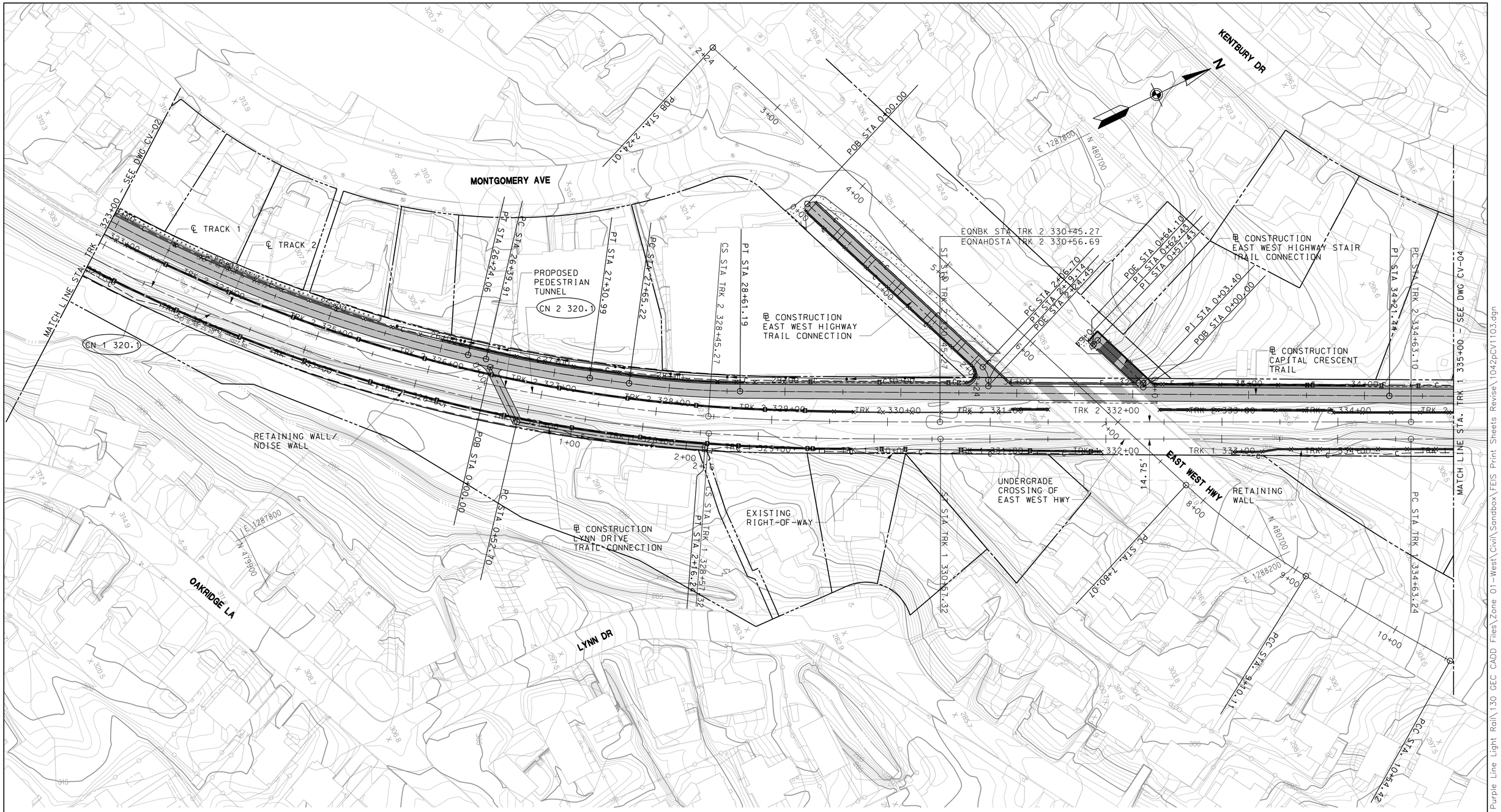

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 320.1	1,364.75	200	200	3.25	2.626	45
CN 2 320.1	1,350	200	200	3.25	2.690	45

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

DRAFT WORK-IN-PROGRESS

STUDY INFORMATION SHOWN SHALL BE USED FOR GENERAL PLANNING /INFORMATION ONLY AND IS SUBJECT TO CHANGE DURING PRELIMINARY ENGINEERING

MARYLAND DEPARTMENT OF TRANSPORTATION

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Gannett Fleming WR&A

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License No. Expiration Date

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	REVISIONS		

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN

STA TRK 1 323+00 TO STA TRK 1 335+00

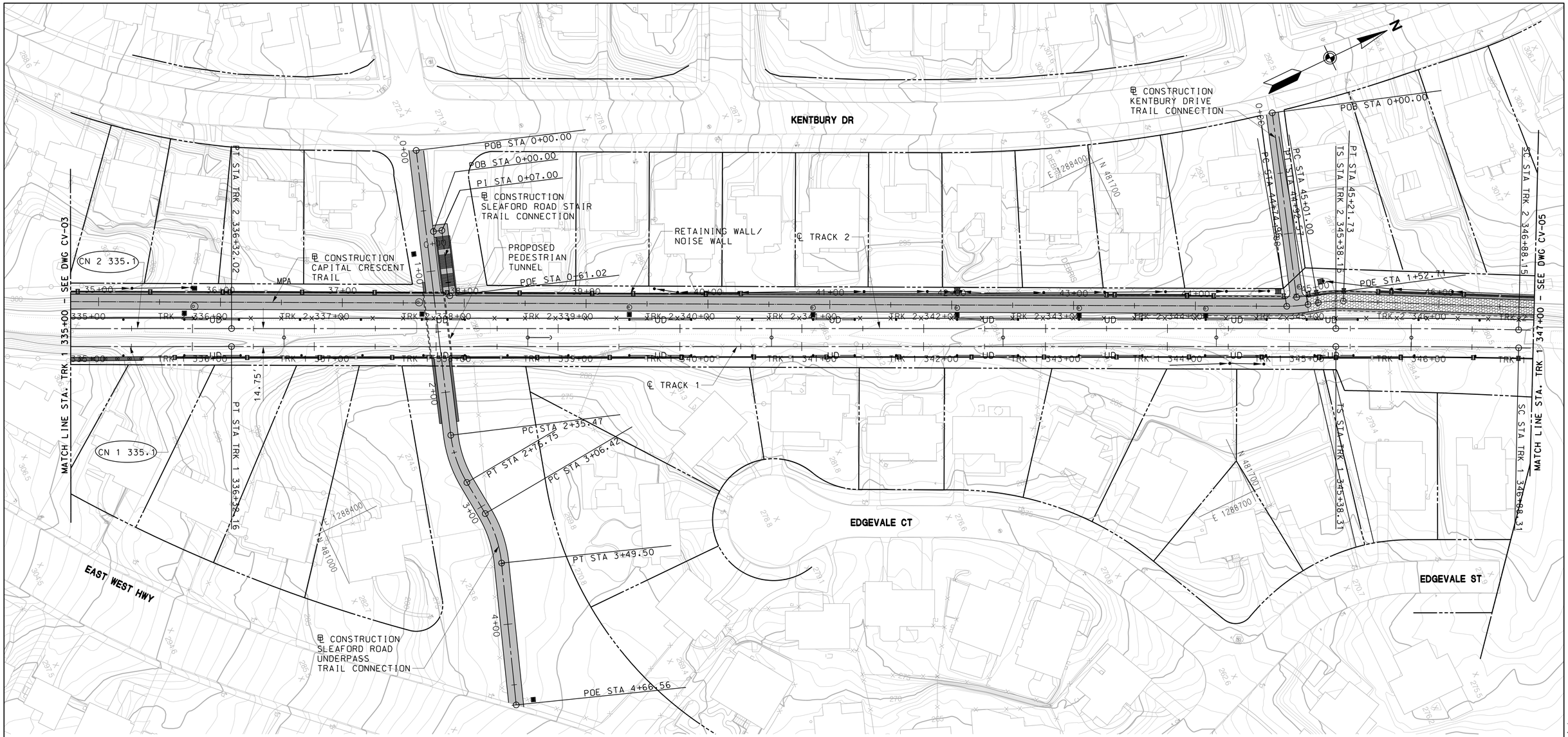
DATE: MAY 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-03

SHEET NO. 96 OF 497

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\1.30 GEC CADD Files\Zone 01-West\Civil\Sandbox\FEIS Print Sheets Revise\1042pCV1103.dgn
7/31/2013



CURVE	RADIUS (FT)	LS 1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 335.1	130.000	0	0	0	0.09	55
CN 2 335.1	130.000	0	0	0	0.09	55

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

STA TRK 1 335+00 TO STA TRK 1 347+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-04

SHEET NO. 97 OF 497

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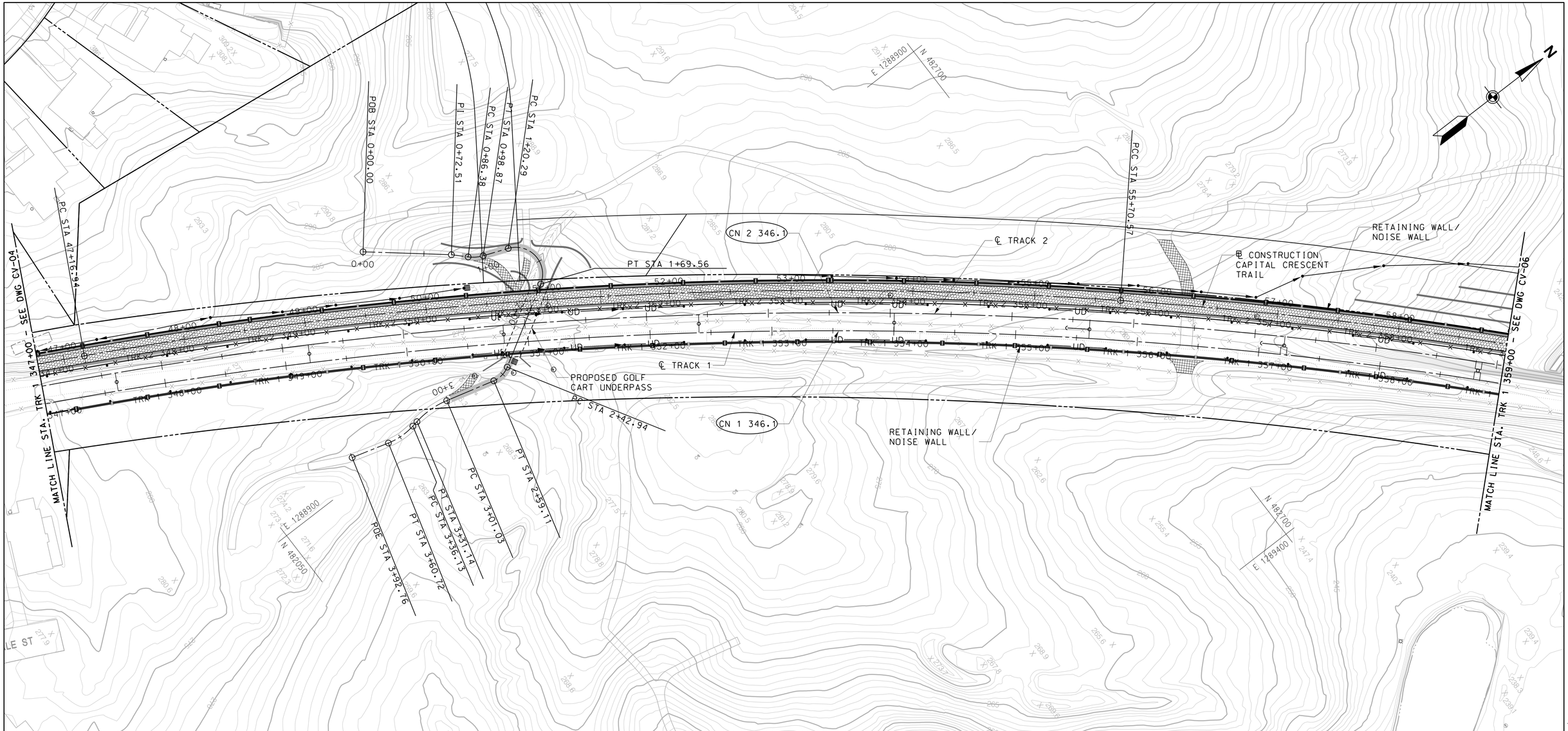
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 347.1	3500	150	150	2.000	1.42	55
CN 2 347.1	3514.75	150	150	2.000	1.41	55

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
STA TRK 1 347+00 TO STA TRK 1 359+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-05
SHEET NO. 98 OF 497

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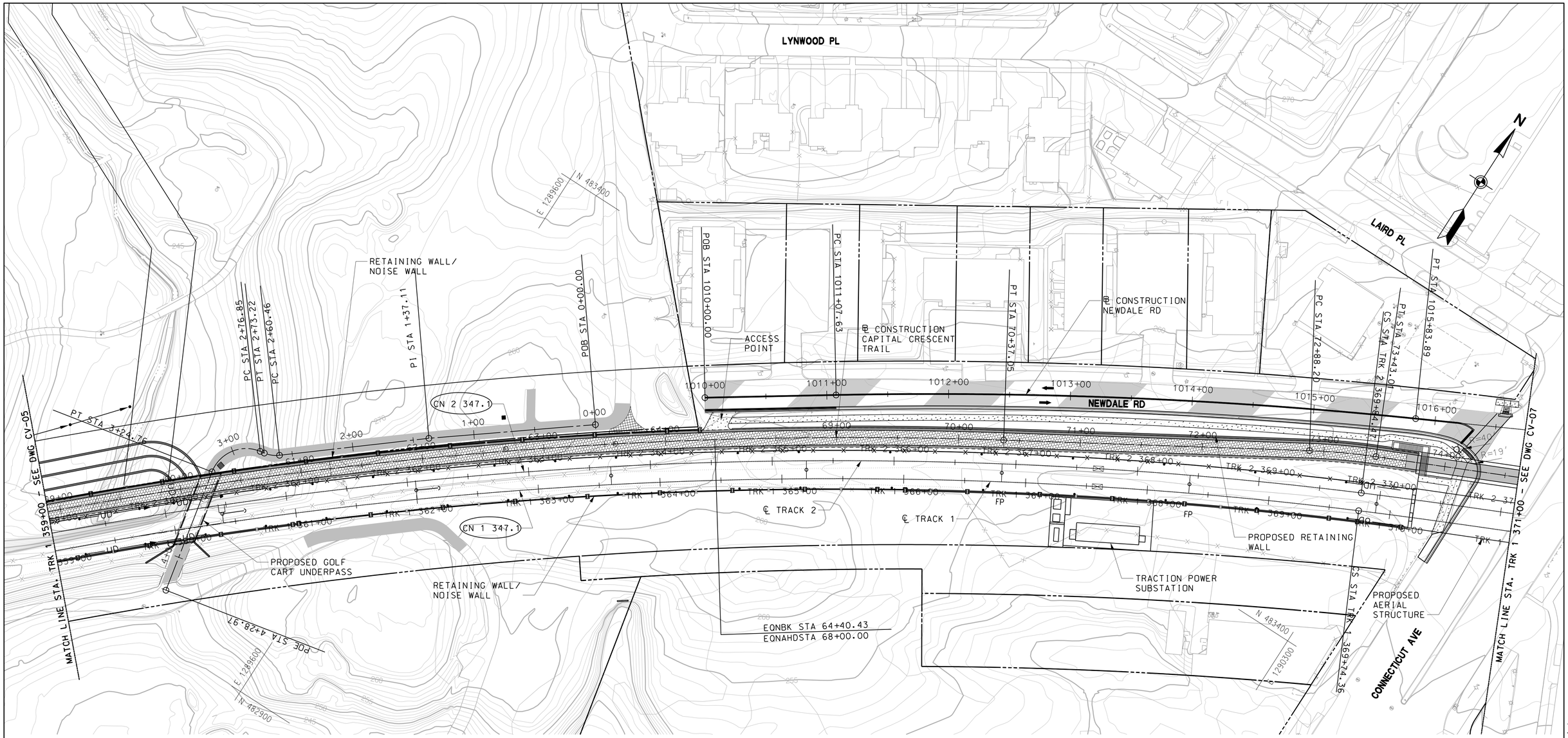
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 347.1	3500	150	150	2.000	1.423	55
CN 2 347.1	3514.75	150	150	2.000	1.408	55

40′ 0 40′ 80′
SCALE: 1"=40′

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN

STA TRK 1 359+00 TO STA TRK 1 371+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-06

SHEET NO. 99 OF 497

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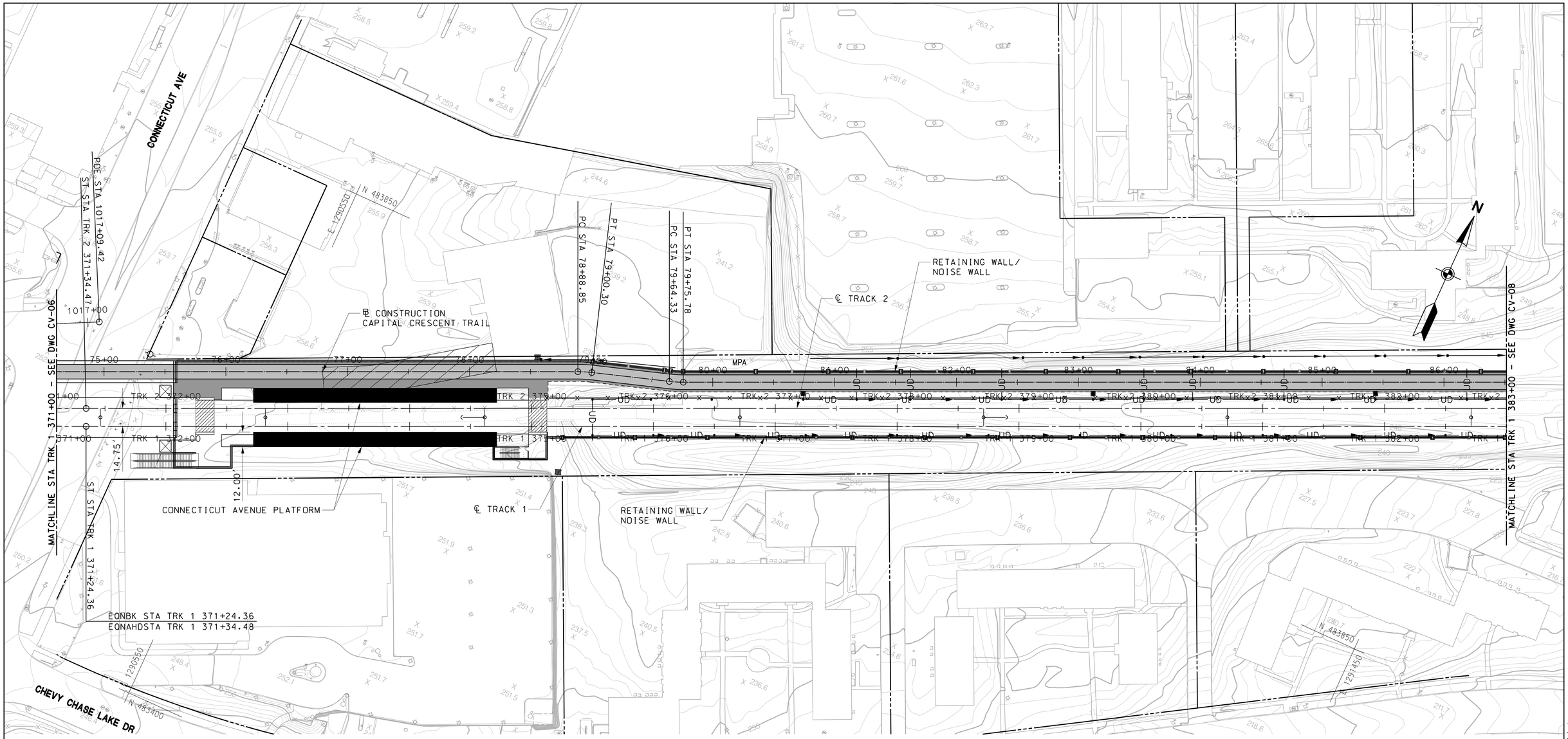
9/27/2012



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 – CONN. AVE. PLATFORM

STA TRK 1 371+00 TO STA TRK 1 383+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-07

SHEET NO. 100 OF 497

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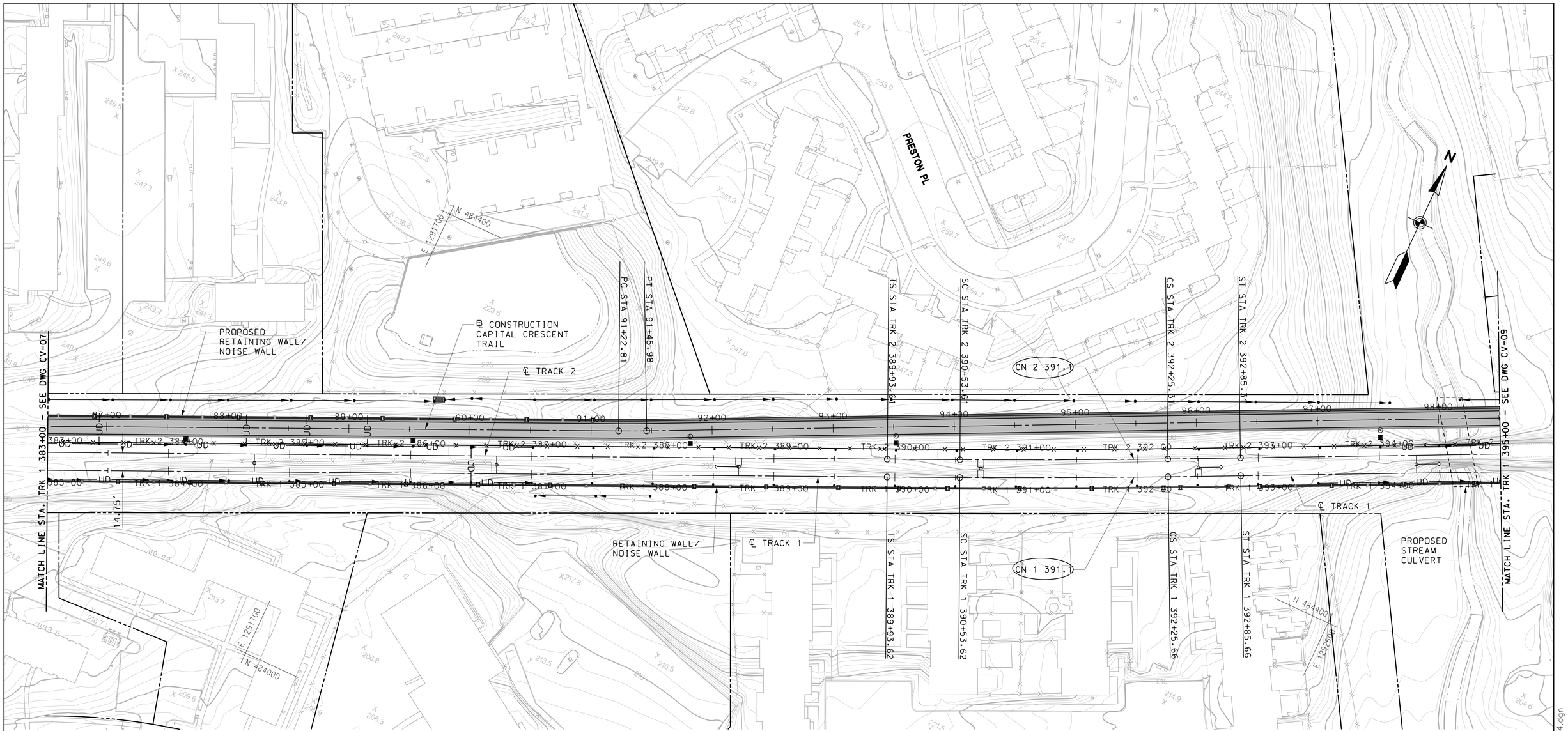
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Eq (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 391.1	10,015	60	60	0.750	0.446	55
CN 2 391.1	10,000	60	60	0.750	0.448	55

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

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN

STA TRK 1 383+00 TO STA TRK 1 395+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-08

SHEET NO. 101 OF 497

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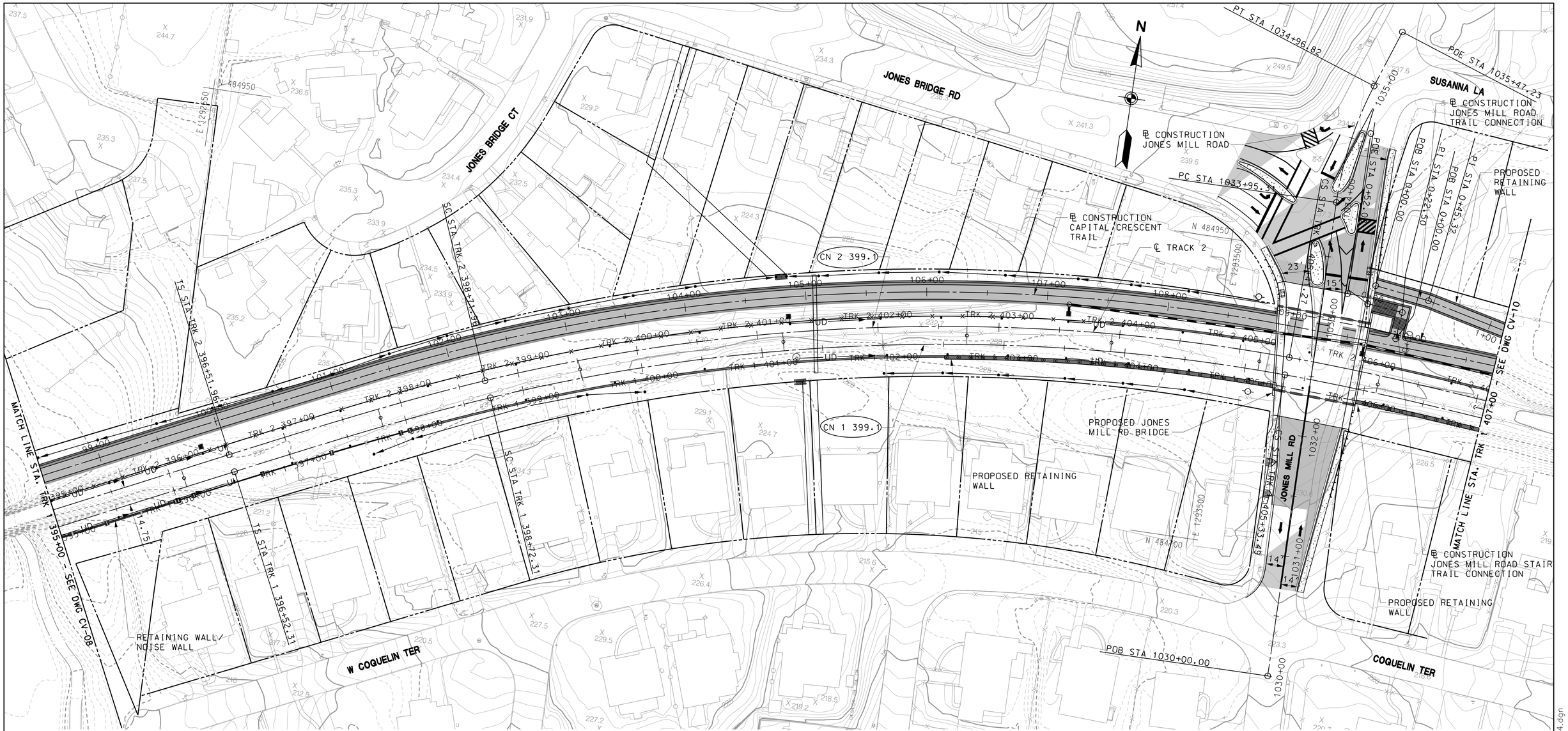
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 399.1	1600	220	220	3.250	2.938	50
CN 2 399.1	1614.75	220	220	3.250	2.884	50

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

STA TRK 1 395+00 TO STA TRK 1 407+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-09

SHEET NO. 102 OF 497

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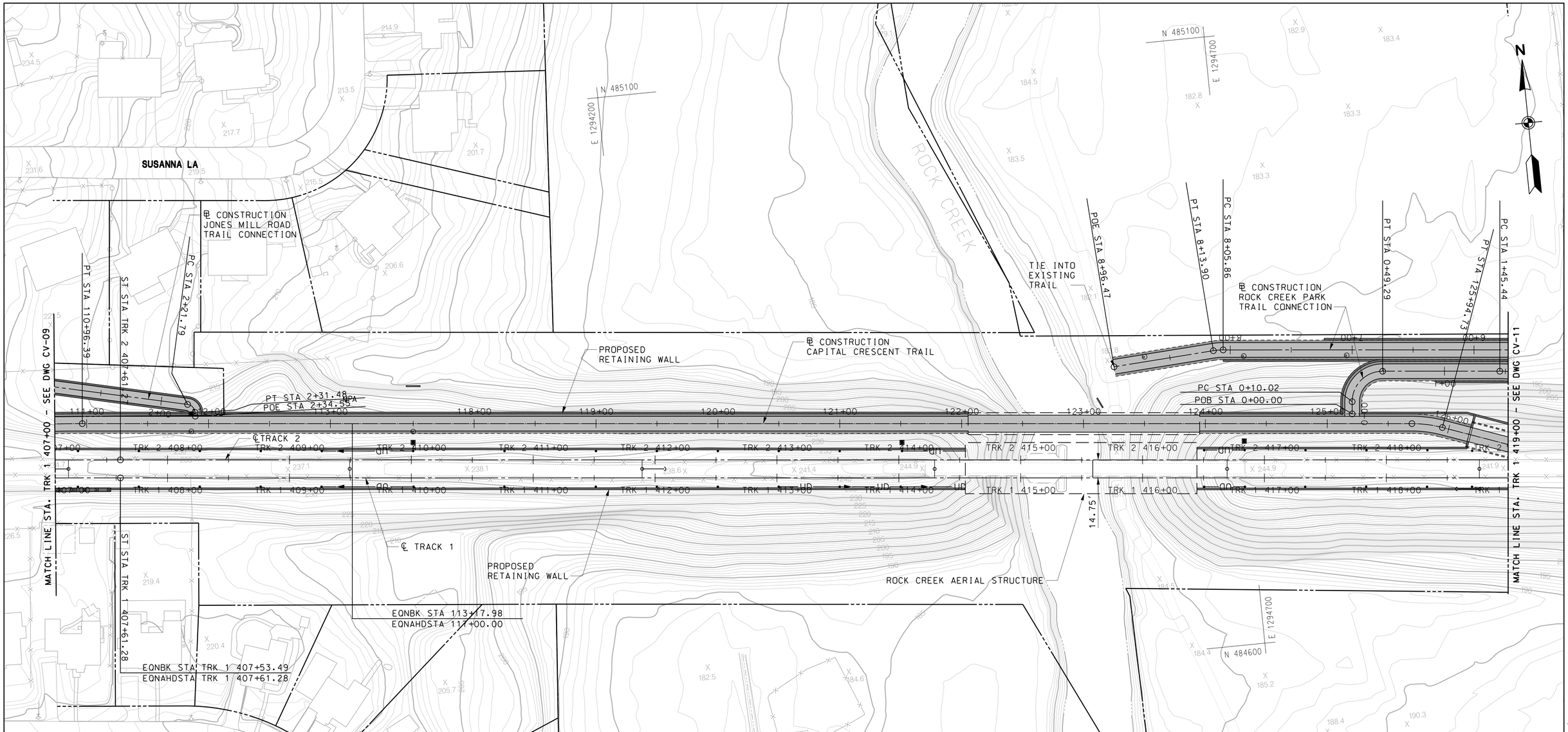
9/27/2012



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

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN

STA TRK 1 407+00 TO STA TRK 1 419+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. CV–10

SHEET NO. 103 OF 497

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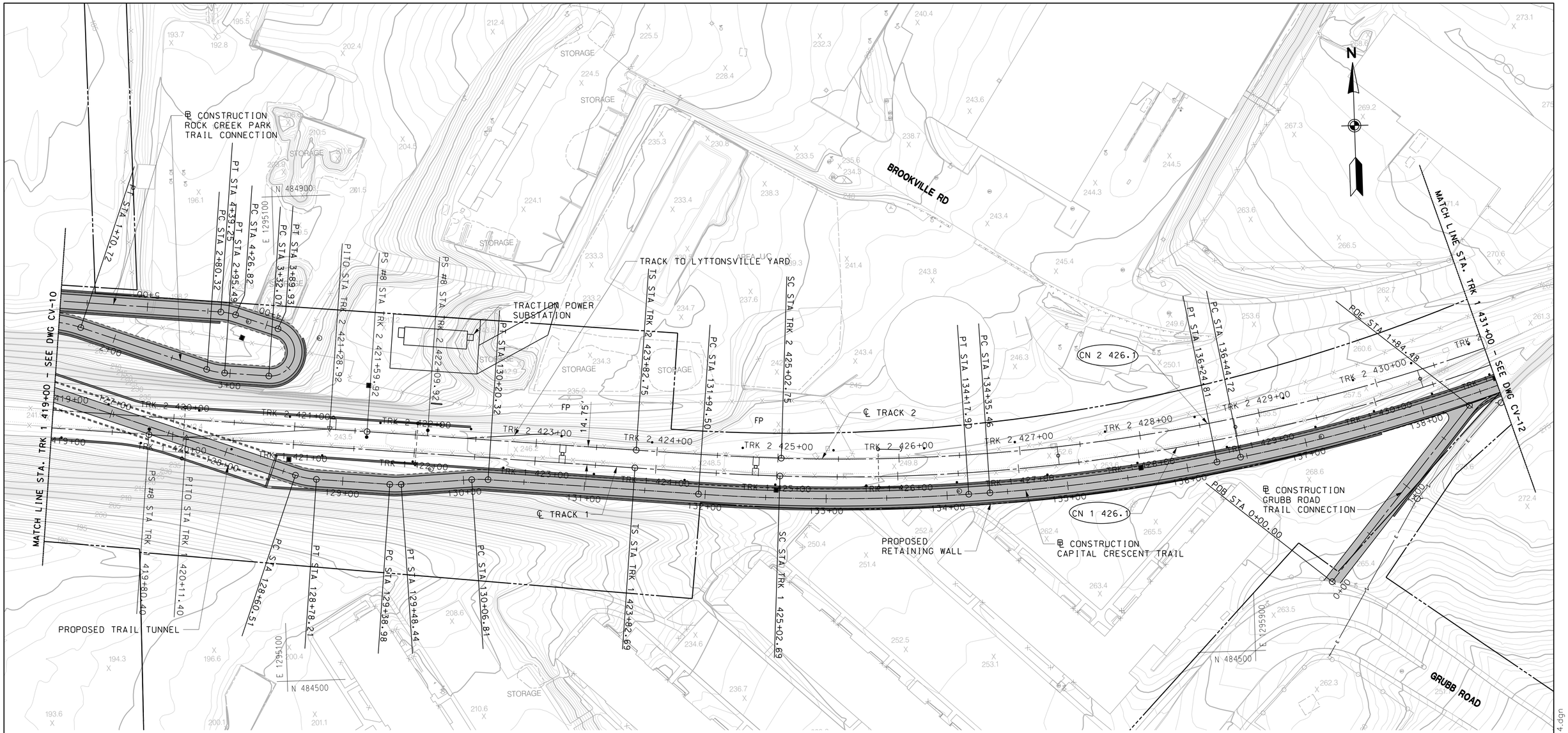
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 426.1	1605	120	60	2.125	1.823	40
CN 2 426.1	1590	120	56	2.125	1.860	40

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

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN

STA TRK 1 419+00 TO STA TRK 1 431+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-11

SHEET NO. 104 OF 497

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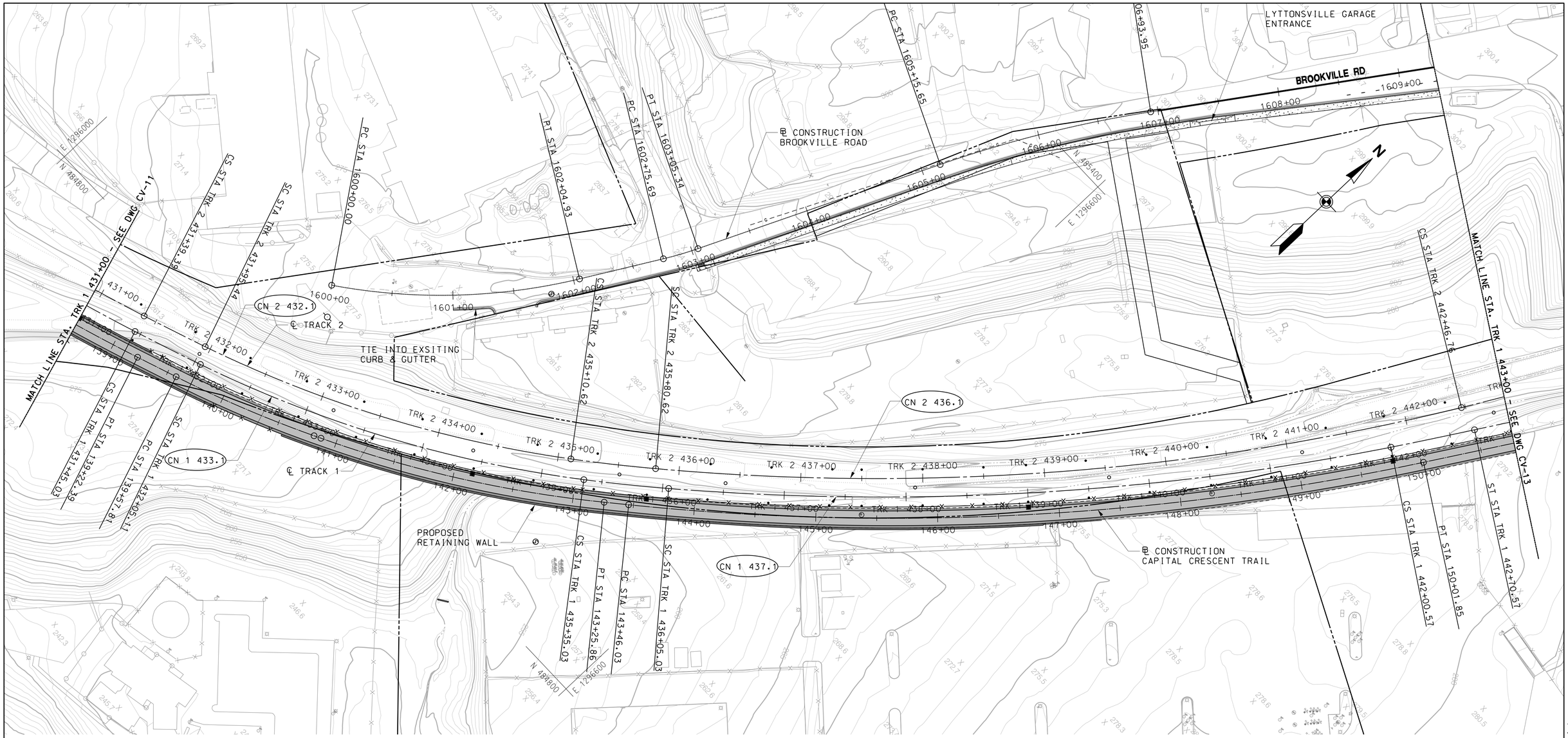
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 433.1	1026	60	70	2.750	1.978	35
CN 2 432.1	1012	56	70	2.750	2.043	35
CN 1 437.1	2160	70	70	1.500	0.746	35
CN 2 436.1	2010	70	80	1.625	0.788	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
STA TRK 1 431+00 TO STA TRK 1 443+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-12
SHEET NO. 105 OF 497

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9/27/2012

POE STA. 1059+11.86
BROOKVILLE RD
CONSTRUCTION BROOKVILLE ROAD
EONBK STA TRK 2 443+26.76
EONAHDSTA TRK 2 443+45.16
PROPOSED LYTTONSVILLE PLACE BRIDGE
UNDERGRADE CROSSING OF LYTTONSVILLE PLACE
LYTTONSVILLE PLATFORM
TRACK TO LYTTONSVILLE YARD
℄ TRACK 2
℄ TRACK 1
MATCH LINE STA. TRK 1 443+00 – SEE DWG CV-12
MATCH LINE STA. TRK 1 455+00 – SEE DWG CV-14
MATCHLINE STA 1054+00 – SEE DWG CV-84
PROPOSED RETAINING WALL
CONSTRUCTION LYTTONSVILLE PLACE TRAIL CONNECTION
CONSTRUCTION CAPITAL CRESCENT TRAIL
CONSTRUCTION COMMERCIAL ACCESS DRIVEWAY
SWM ACCESS
CONSTRUCTION LYTTONSVILLE PLACE
LYTTONSVILLE PL
CN 1 445.1
PT STA. 1055+00.89
PC STA. 1054+20.84
POE STA 3+59.44
POB STA 2020+00.00
PC STA 2021+92.00
PT STA 2022+91.89
PC STA 2023+98.34
PC STA 162+41.01
PT STA 160+57.15
PT STA 160+50.49
PS #8 STA TRK 2 451+67.22
PITO STA TRK 2 451+36.22
TS STA TRK 2 452+75.45
SC STA TRK 2 454+51.45
PITO STA TRK 1 452+14.28
PS #8 STA TRK 1 452+45.28
TS STA TRK 1 452+86.18
SC STA TRK 1 454+62.18
PC STA 152+84.34
PT STA 152+47.13
POB STA 0+00.00
CS STA TRK 1 445+07.61
ST STA TRK 1 445+47.61
ST STA TRK 2 443+45.15
TS STA TRK 1 443+77.13
N 485900
E 1296950
N 486600
E 1297350
E STA 1616+60.81

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 445.1	2600	40	40	0.875	0.496	30

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

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – LYTTONSVILLE PLATFORM
STA TRK 1 443+00 TO STA TRK 1 455+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-13
SHEET NO. 106 OF 497

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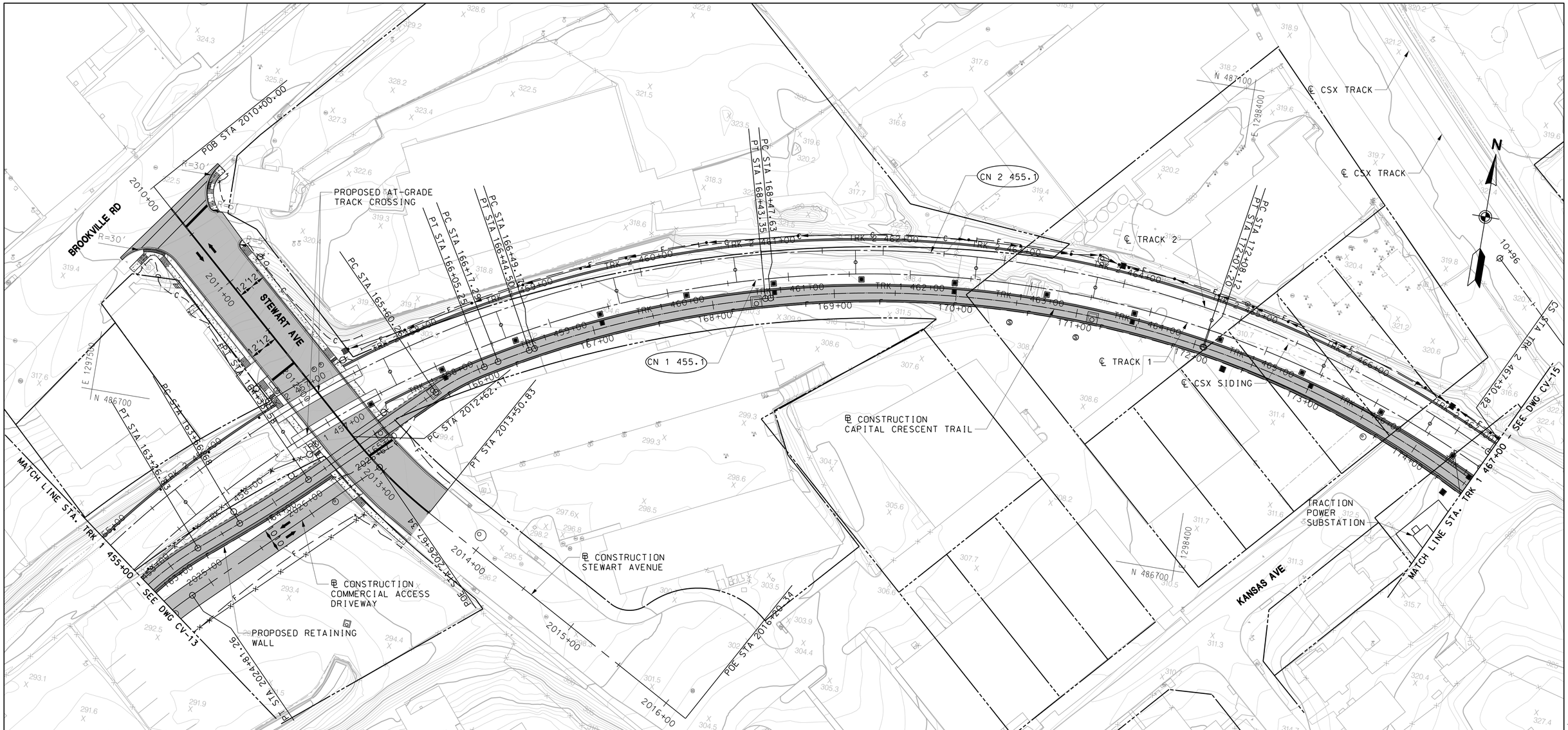
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 2 455.1	896	176	176	3.25	3.821	40
CN 1 455.1	871	176	176	3.25	4.024	40

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

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN

STA TRK 1 455+00 TO STA TRK 1 467+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-14

SHEET NO. 107 OF 497

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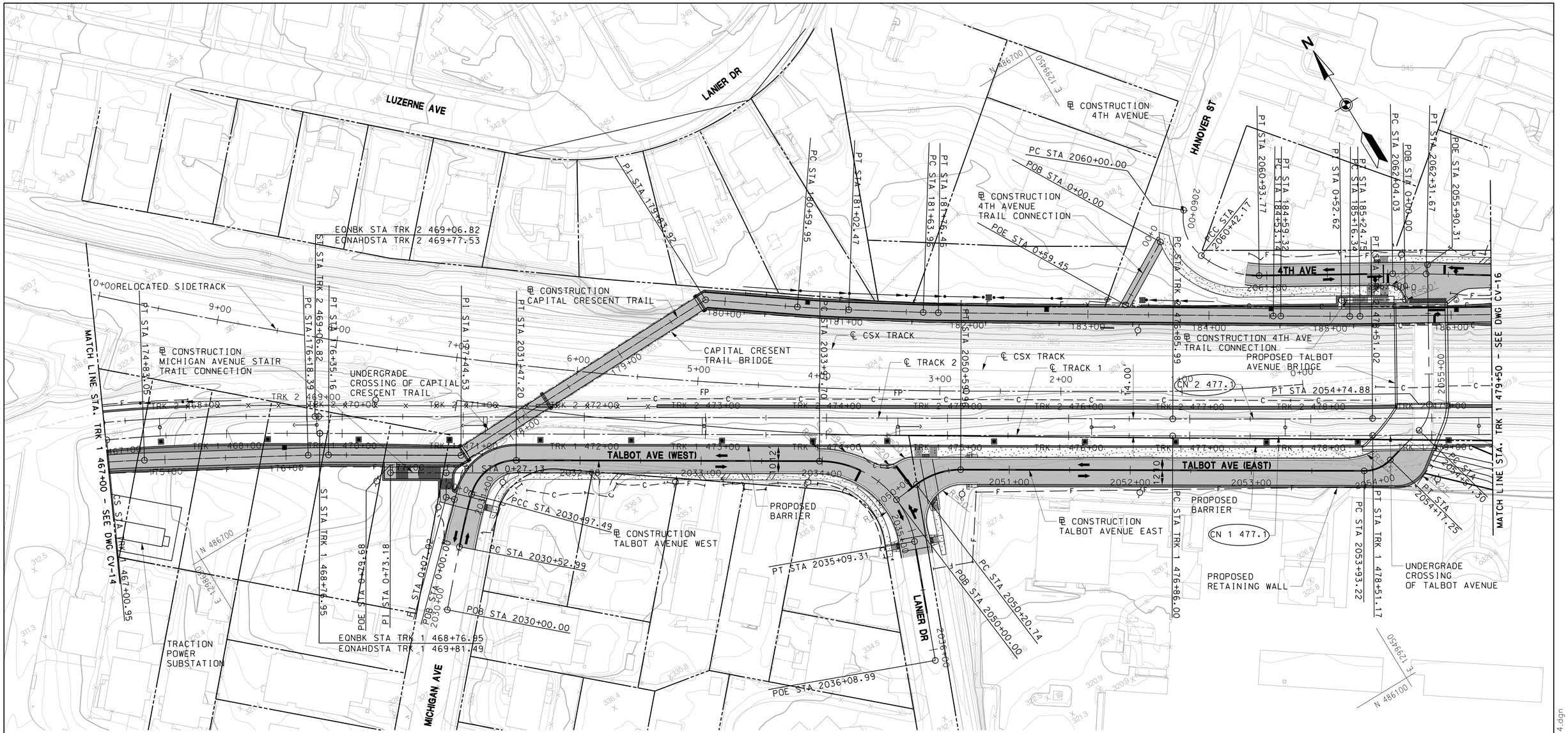
9/27/2012



CURVE	RADIUS (FT)	LS1/2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 477.1	15,114	0	0	0.793	55
CN 2 477.1	15,100	0	0	0.793	55

40′ 0 40′ 80′
SCALE: 1"=40′

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN

STA TRK 1 467+00 TO STA TRK 1 479+50

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-15

SHEET NO. 108 OF 497

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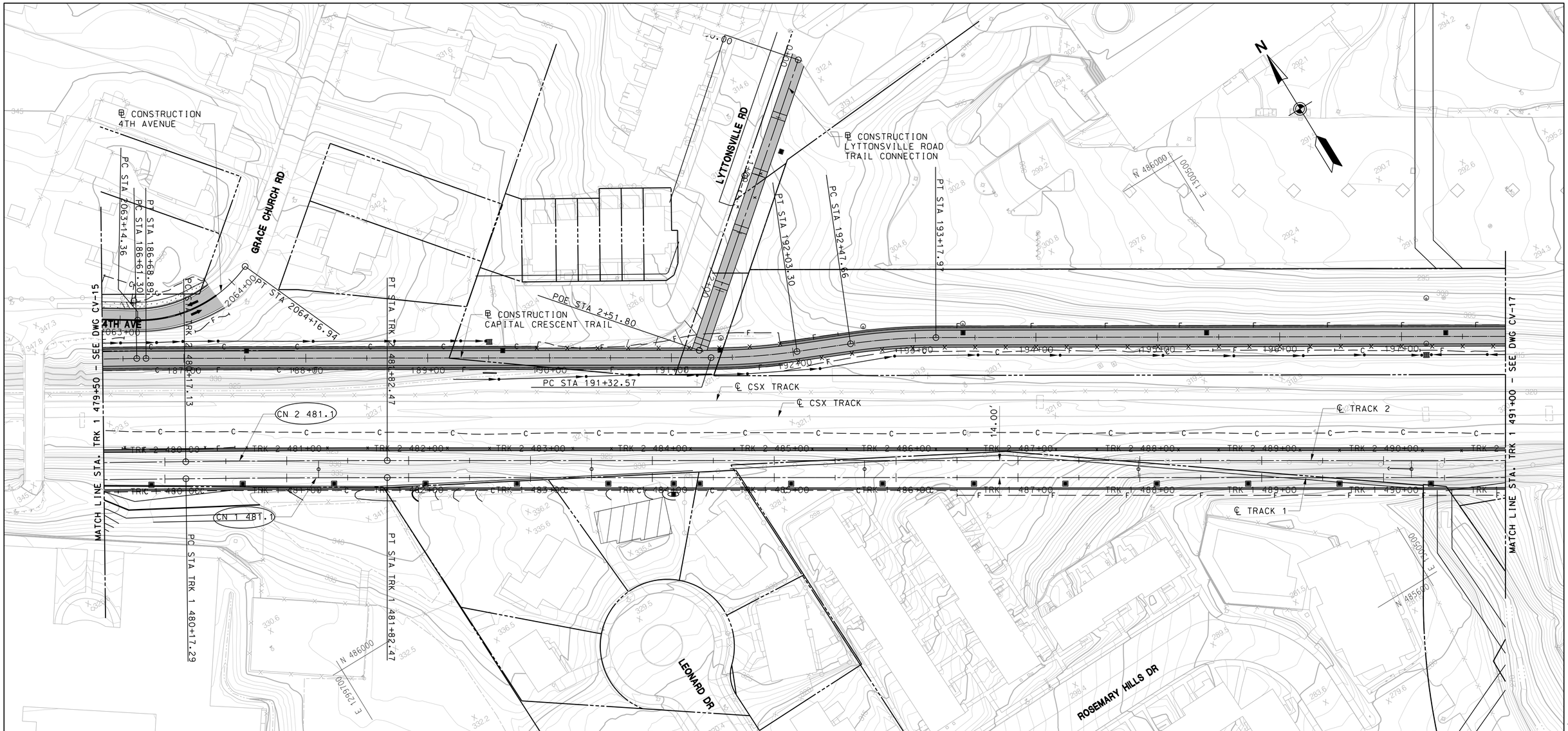
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 481.1	14,700	0	0	0	0.815	55
CN 2 481.1	14,714	0	0	0	0.814	55

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

DRAFT WORK-IN-PROGRESS

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License No. Expiration Date

NO.	DESCRIPTION	BY	DATE

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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN

STA TRK 1 479+50 TO STA TRK 1 491+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-16

SHEET NO. 109 OF 497

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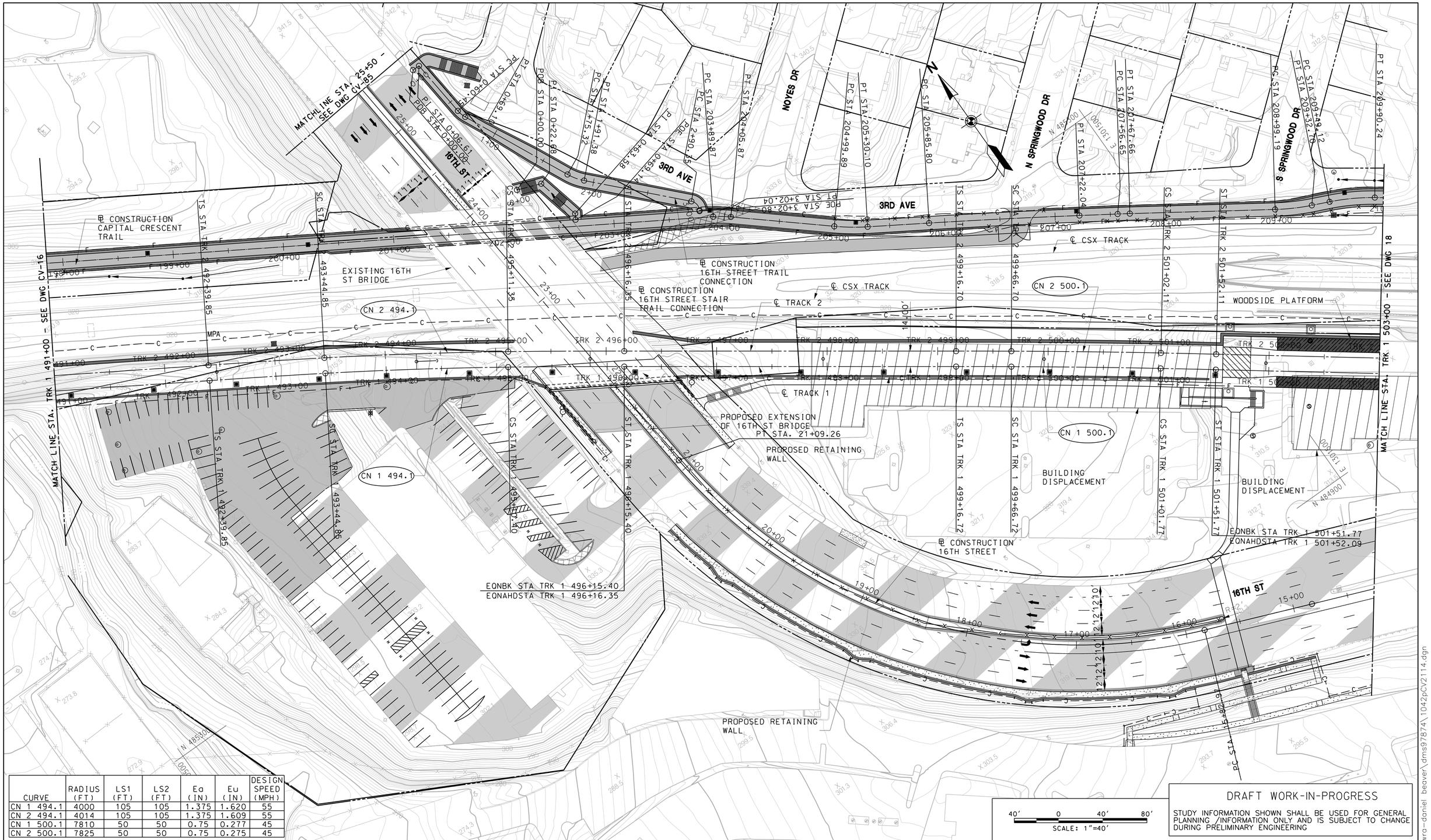
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 494.1	4000	105	105	1.375	1.620	55
CN 2 494.1	4014	105	105	1.375	1.609	55
CN 1 500.1	7810	50	50	0.75	0.277	45
CN 2 500.1	7825	50	50	0.75	0.275	45

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NO.	DESCRIPTION	BY	DATE
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CONCEPT PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – WOODSIDE PLATFORM WEST

STA TRK 1 491+00 TO STA TRK 1 503+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-17

SHEET NO. 110 OF 497

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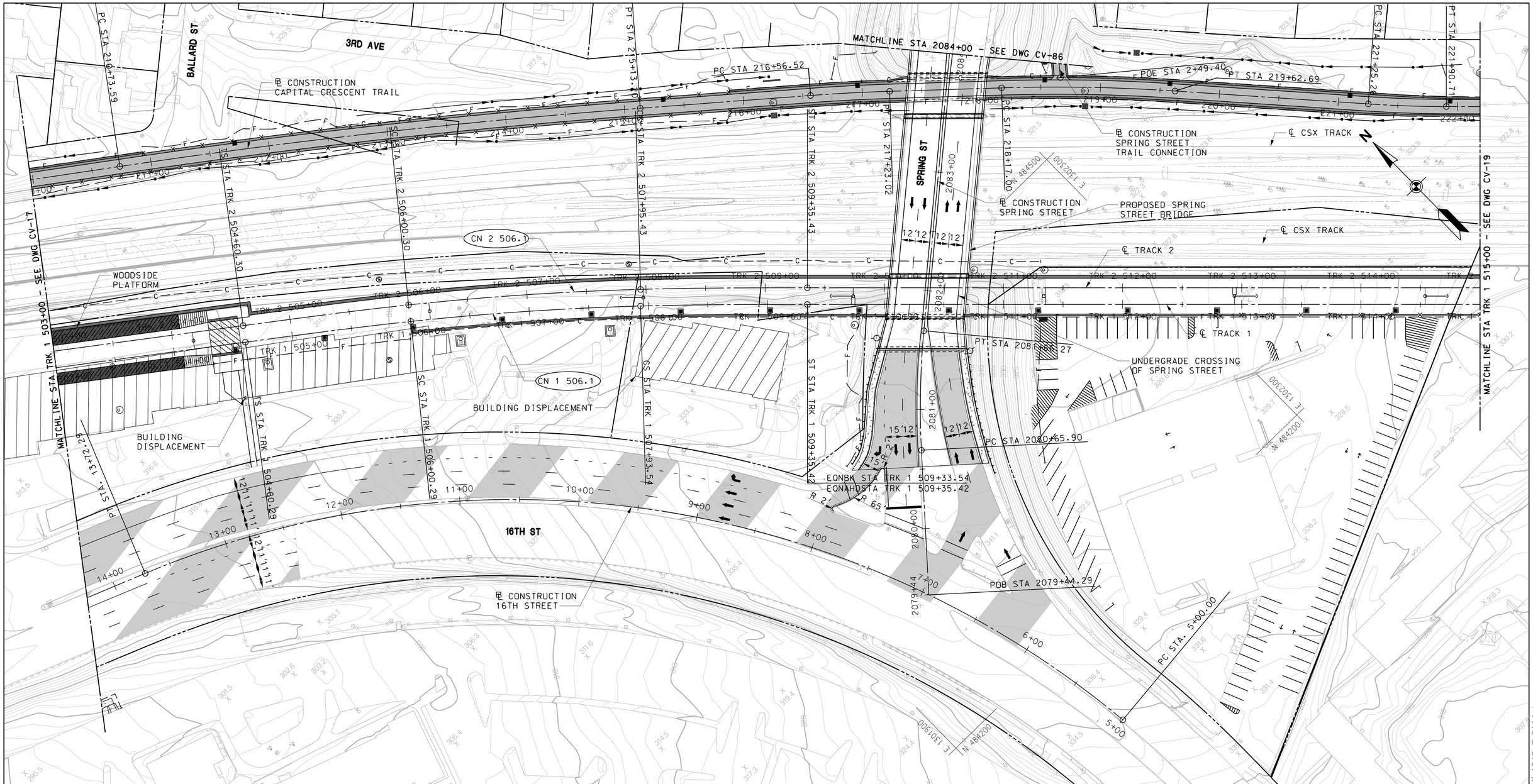

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 506.1	2486	140	140	2.00	1.226	45
CN 2 506.1	2500	140	140	2.00	1.208	45

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

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – WOODSIDE PLATFORM EAST

STA TRK 1 503+00 TO STA TRK 1 515+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-18

SHEET NO. 111 OF 497

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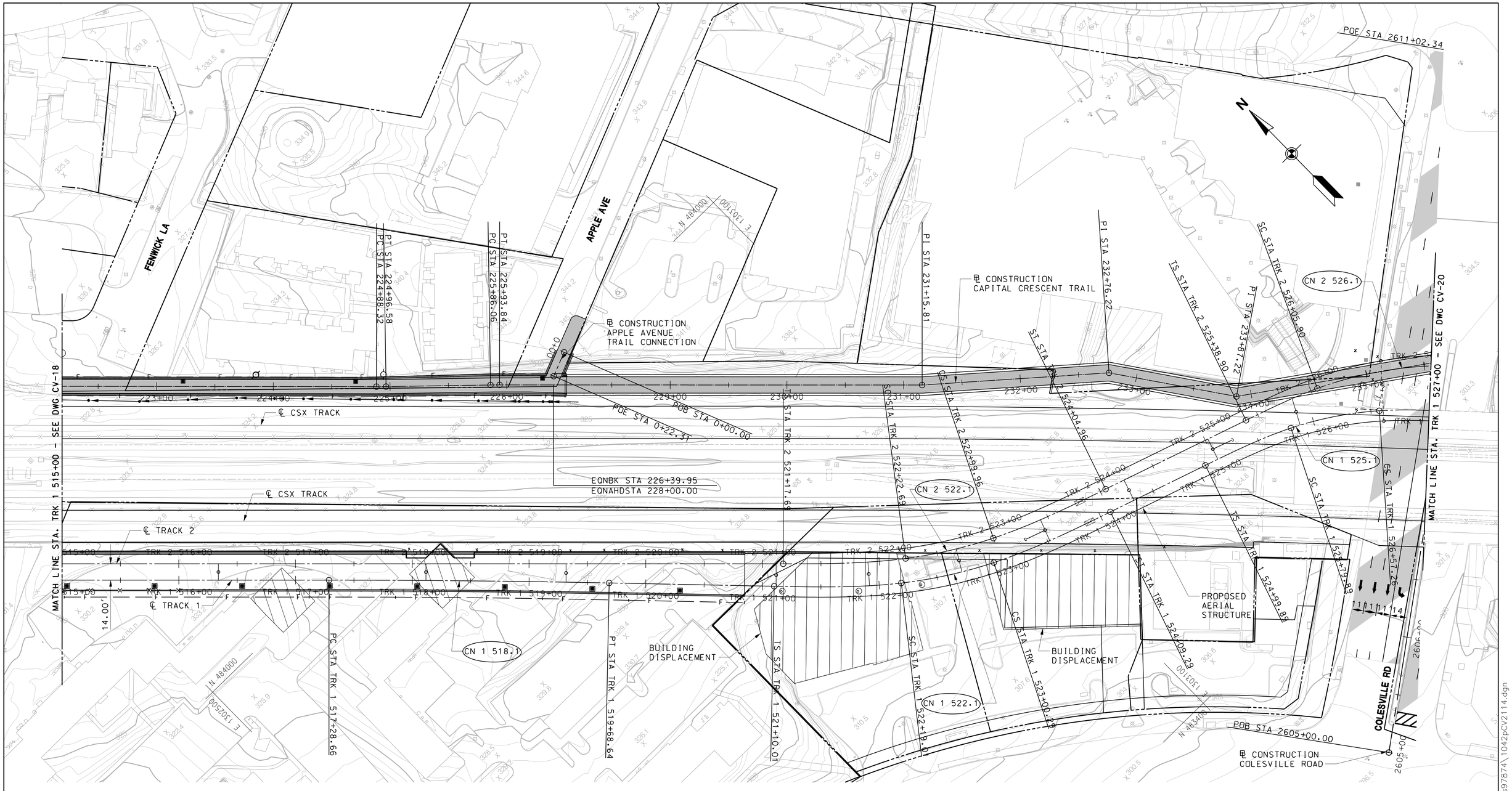

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 518.1	12,000	0	0	0	0.825	50
CN 1 522.1	400	109	109	2.50	3.688	25
CN 2 522.1	400	105	105	2.50	3.688	25
CN 1 525.1	300	80	80	2.375	2.905	20
CN 2 526.1	320	67	67	2.000	2.950	20

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

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN

STA TRK 1 515+00 TO STA TRK 1 527+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-19

SHEET NO. 112 OF 497

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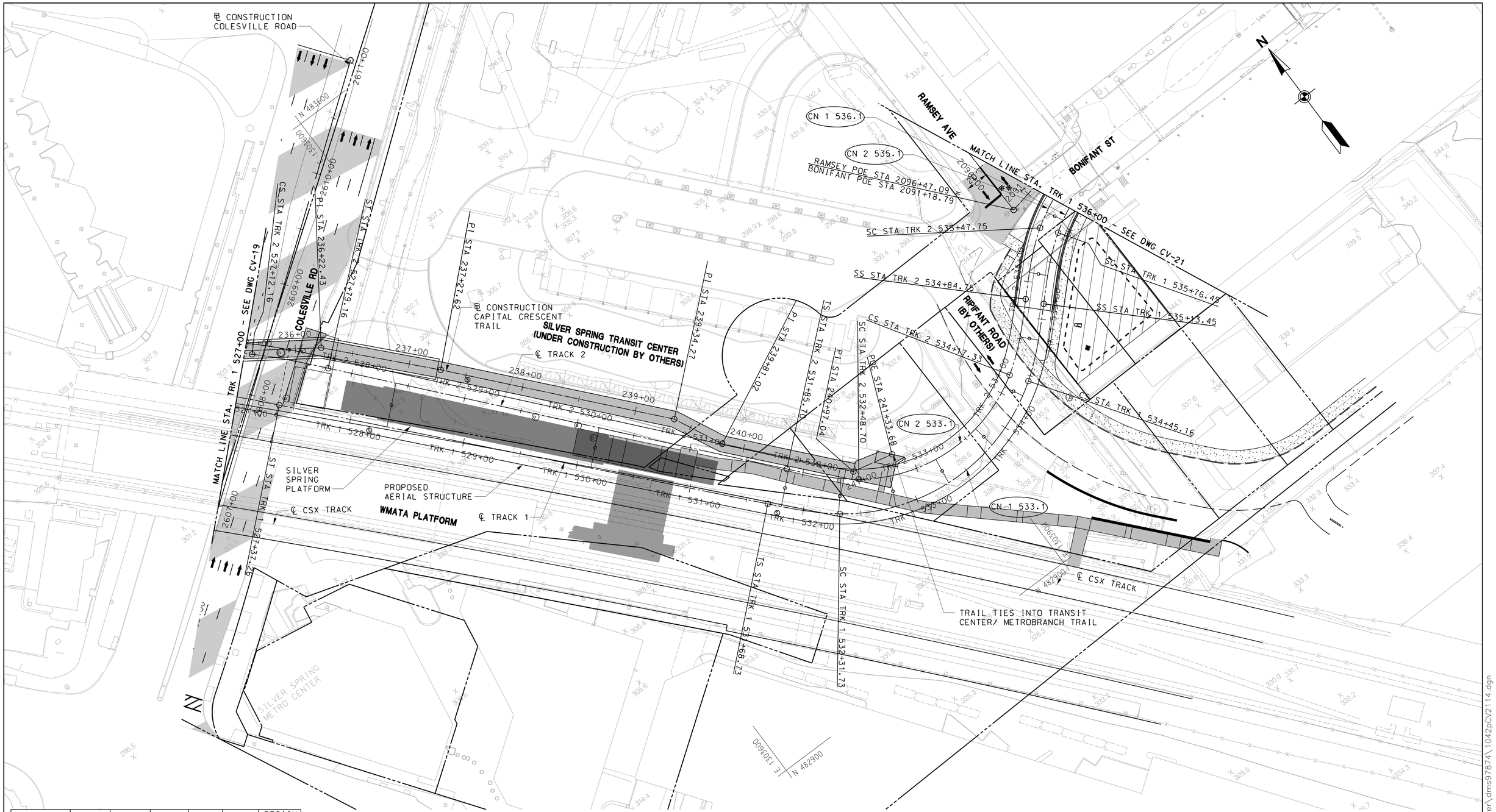

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 533.1	170	63	68	1.00	1.329	10
CN 2 533.1	141	63	67	1.00	1.809	10
CN 1 536.1	148	63	63	0.875	1.801	10
CN 2 535.1	148	63	63	0.875	1.801	10

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

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – SILVER SPRING PLATFORM

STA TRK 1 527+00 TO STA TRK 1 536+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-20

SHEET NO. 113 OF 497

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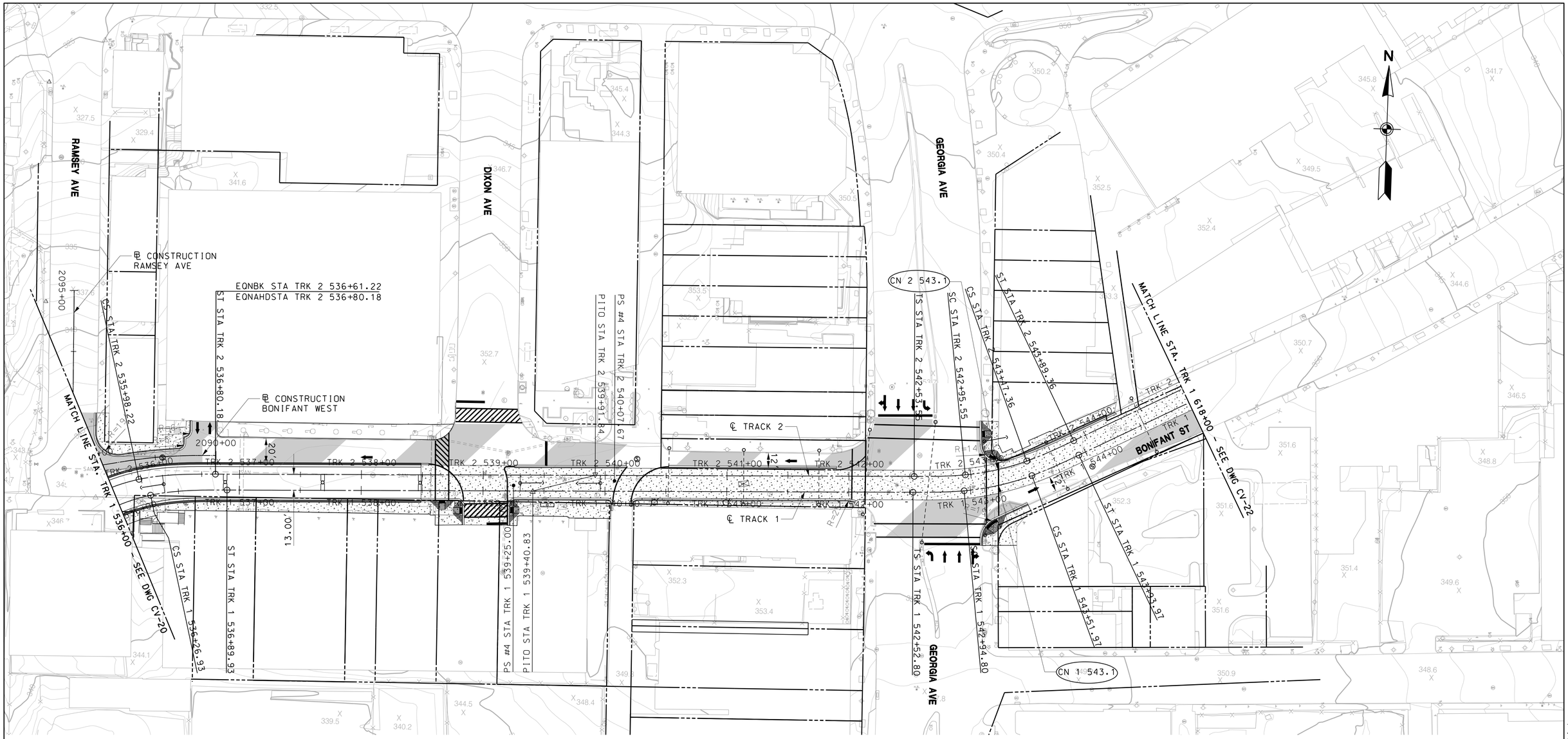

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 543.1	222	42	42	-1.0	2.784	10
CN 2 543.1	210	42	42	-1.0	2.886	10

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

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – BONIFANT STREET

STA TRK 1 536+00 TO STA TRK 1 618+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. CV–21

SHEET NO. 114 OF 497

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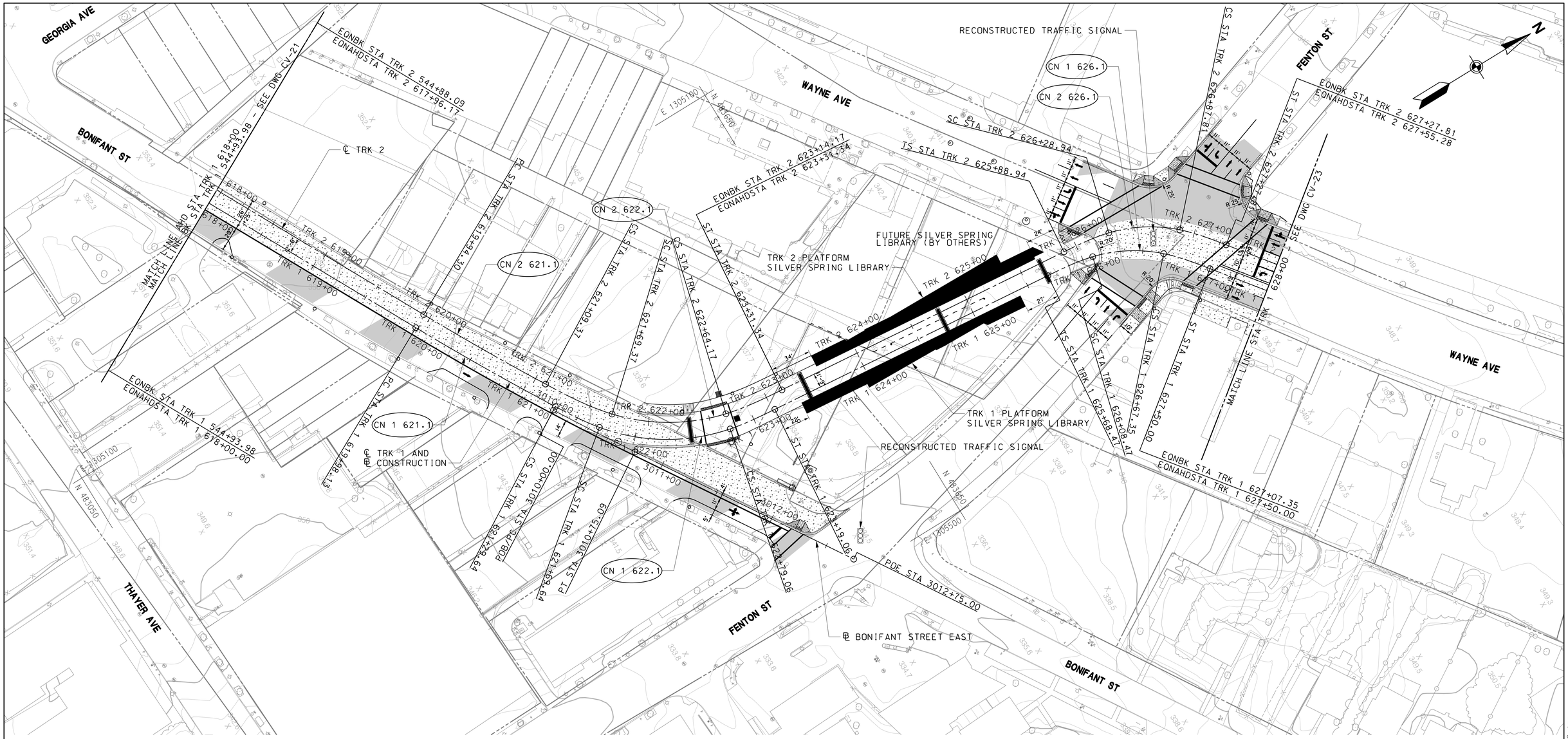

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 621.1	2412.5	0	40	0.283	-0.119	10
CN 2 621.1	2400	0	60	0.283	-0.118	10
CN 1 622.1	160	40	40	0.000	0.619	5
CN 2 622.1	160	60	50	0.000	0.619	5
CN 1 626.1	120	40	40	0.283	3.017	10
CN 2 626.1	120	40	40	0.283	3.017	10

ALL ROAD MEASUREMENTS ARE TO THE FACE OF CURB
ALL STATIONS ARE BASED ON THE TRK 1 CENTERLINE

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

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – BONIFANT ST / WAYNE AVE
STA TRK 1 618+00 TO STA TRK 1 628+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-22
SHEET NO. 115 OF 497

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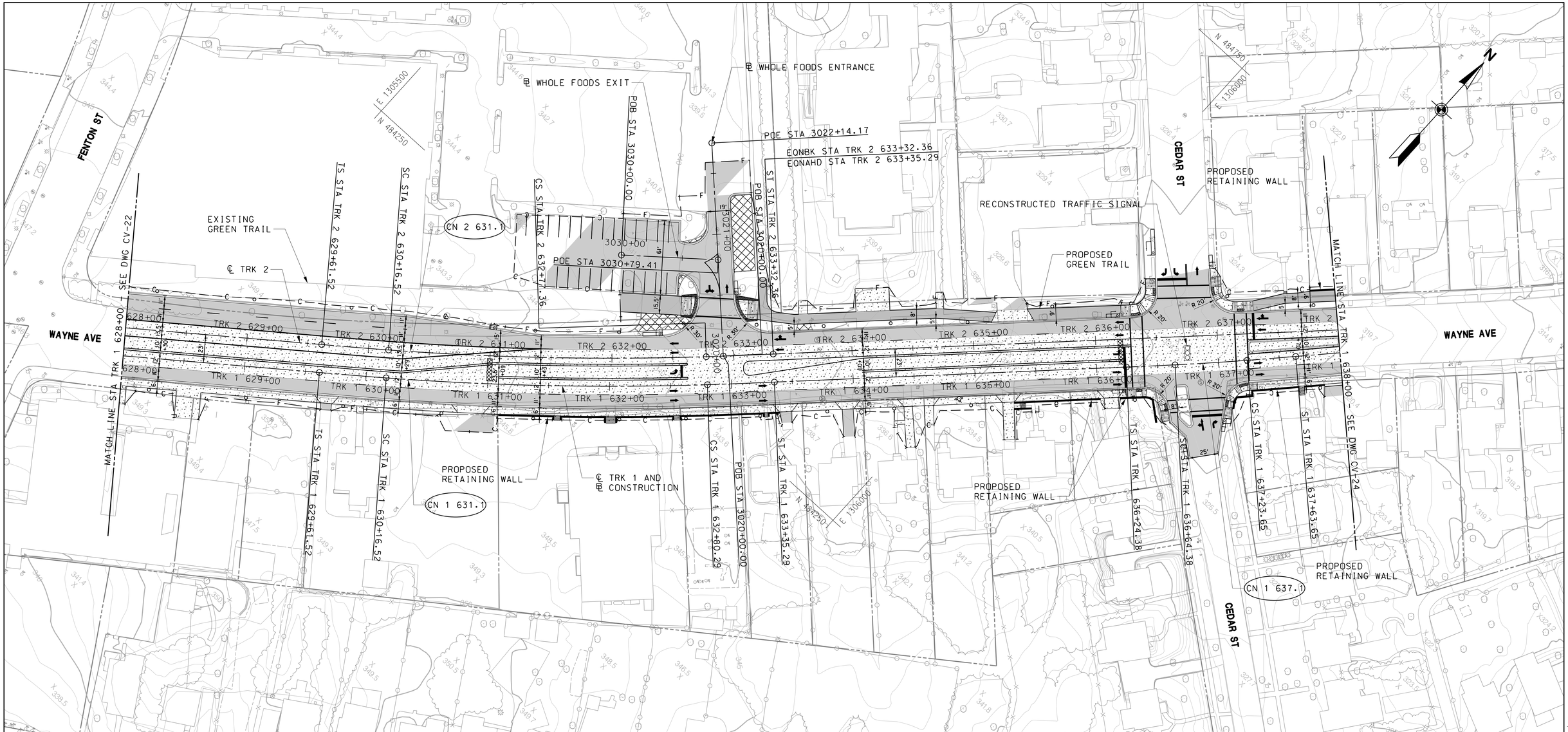

ALL ROAD MEASUREMENTS ARE TO THE FACE OF CURB
ALL STATIONS ARE BASED ON THE TRK 1 CENTERLINE

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 631.1	2500	55	55	1.000	0.426	30
CN 2 631.1	2477	55	55	1.000	0.439	30
CN 1 637.1	2500	40	40	0.625	0.801	30

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

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – WAYNE AVENUE
STA TRK 1 628+00 TO STA TRK 1 638+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-23
SHEET NO. 116 OF 497

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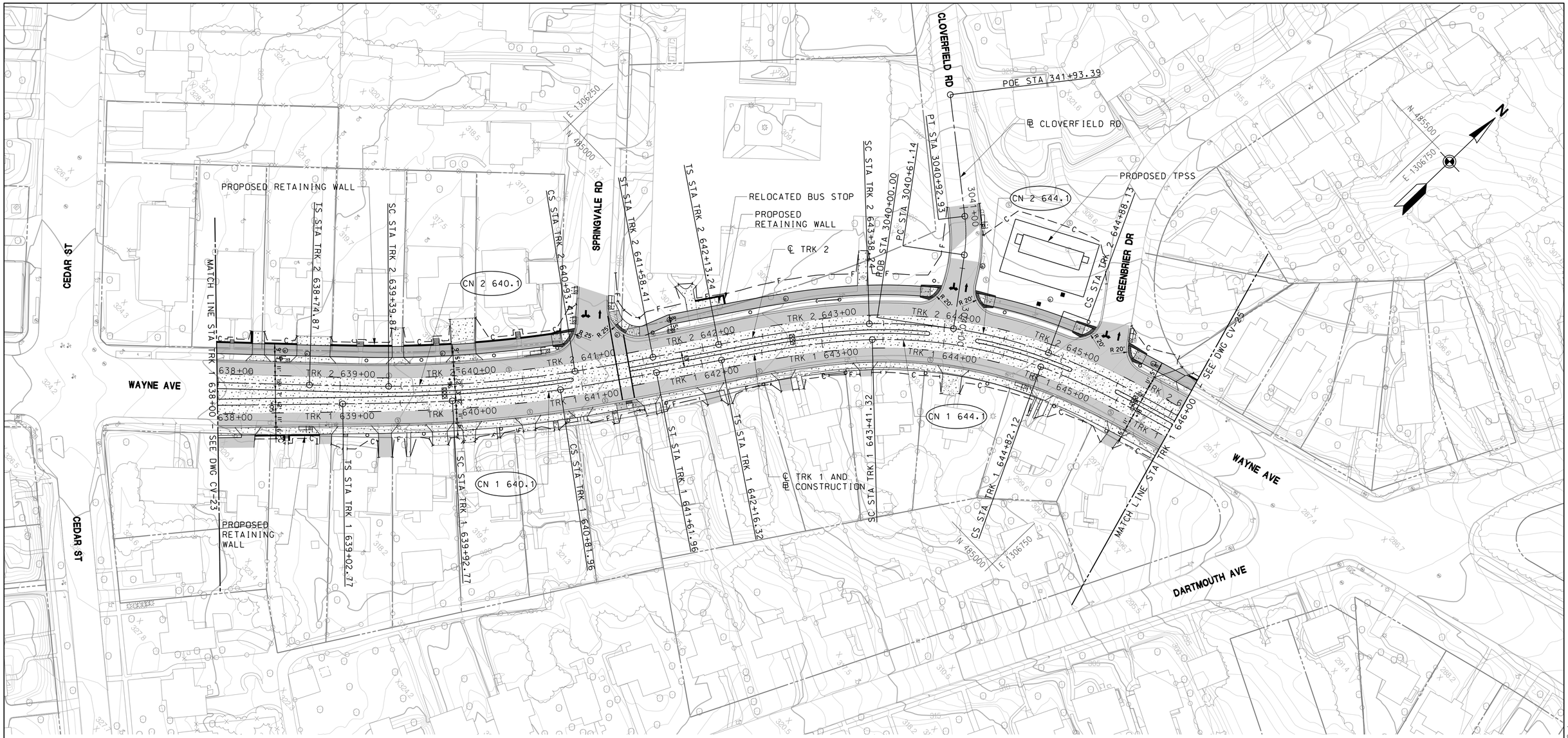

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 640.1	980	90	80	1.875	1.762	30
CN 2 640.1	1005	65	65	1.875	1.671	30
CN 1 644.1	380	125	125	3.375	3.138	25
CN 2 644.1	393	125	125	3.375	2.923	25

ALL ROAD MEASUREMENTS ARE TO THE FACE OF CURB
ALL STATIONS ARE BSED ON THE TRK 1 CENTERLINE

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

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – WAYNE AVENUE
STA TRK 1 638+00 TO STA TRK 1 646+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-24
SHEET NO. 117 OF 497

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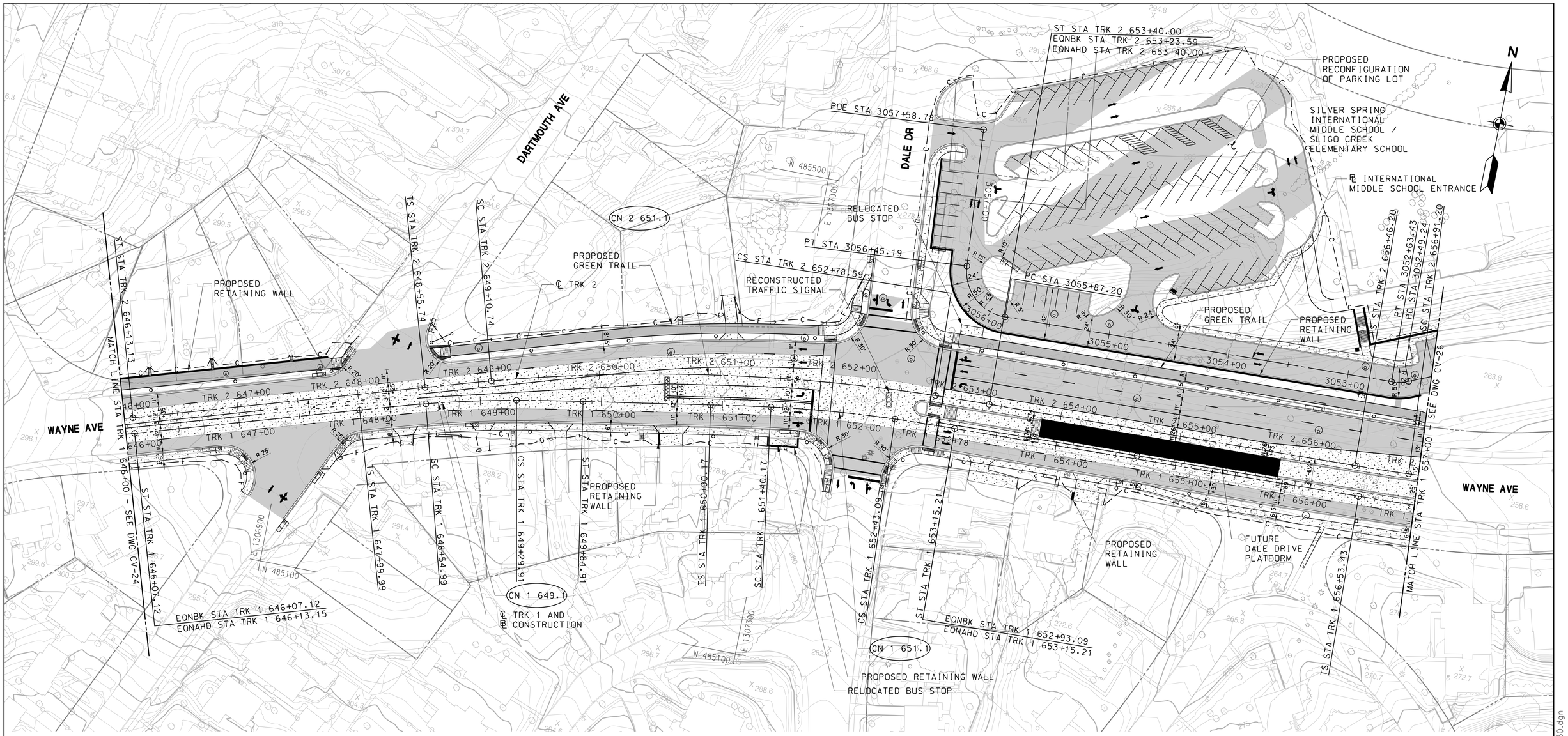

ALL ROAD MEASUREMENTS ARE TO THE FACE OF CURB
ALL STATIONS ARE BASED ON THE TRK 1 CENTERLINE

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 649.1	995	55	55	1.500	0.987	25
CN 1 651.1	1100	50	50	1.375	0.875	25
CN 2 651.1	1550	55	45	1.000	0.597	25

HORIZONTAL SCALE:
40′ 0 40′ 80′
SCALE: 1″=40′

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – WAYNE AVENUE
STA TRK 1 646+00 TO STA TRK 1 657+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–25
SHEET NO. 118 OF 497

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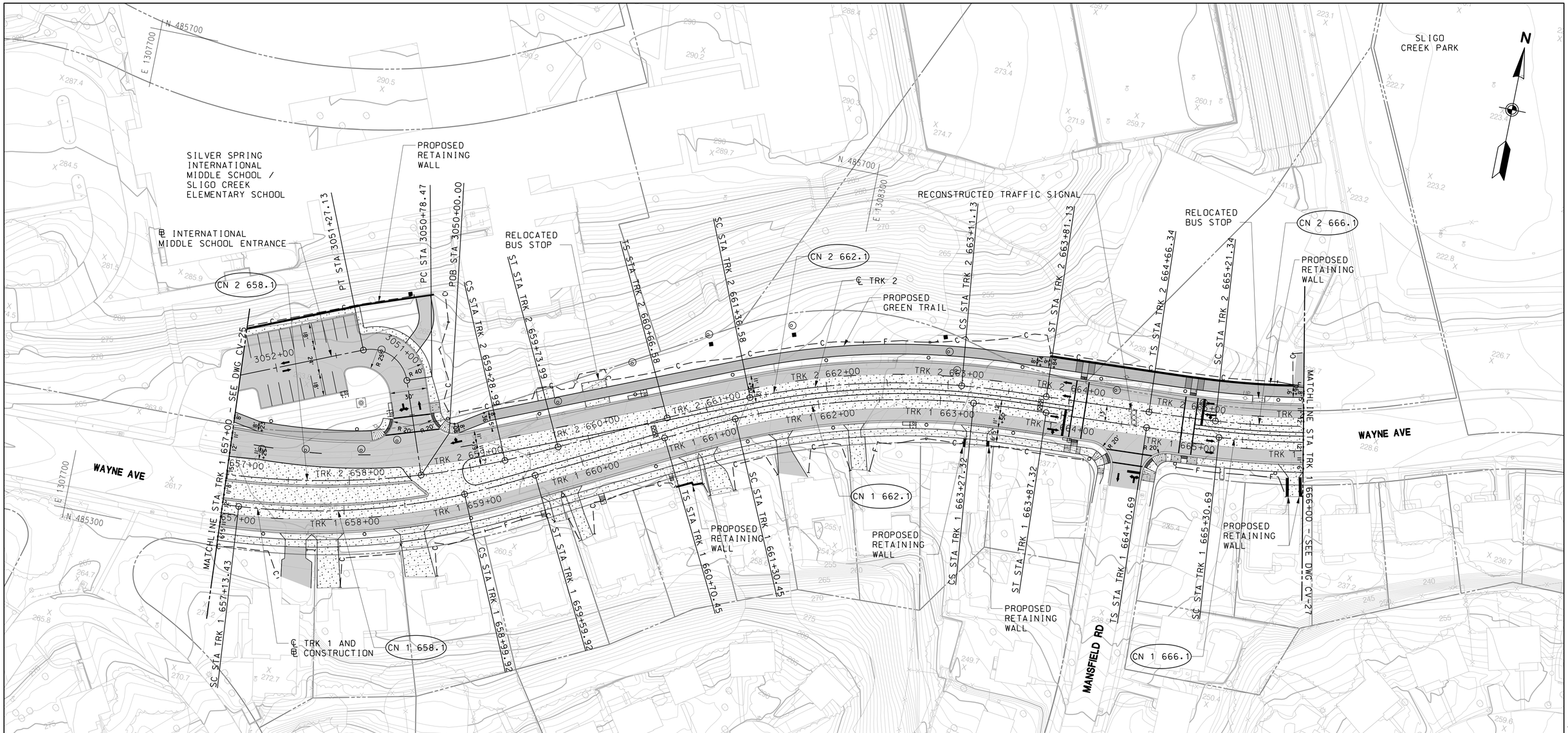

ALL ROAD MEASUREMENTS ARE TO THE FACE OF CURB
ALL STATIONS ARE BASED ON THE TRK 1 CENTERLINE

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 658.1	545	60	60	1.500	1.406	20
CN 2 658.1	655	45	45	1.250	1.168	20
CN 1 662.1	600	60	60	2.000	2.125	25
CN 2 662.1	600	70	70	1.750	2.375	25
CN 1 666.1	720	60	60	1.500	1.938	25
CN 2 666.1	732	55	55	1.500	1.881	25

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

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – WAYNE AVENUE
STA TRK 1 657+00 TO STA TRK 1 666+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-26
SHEET NO. 119 OF 497

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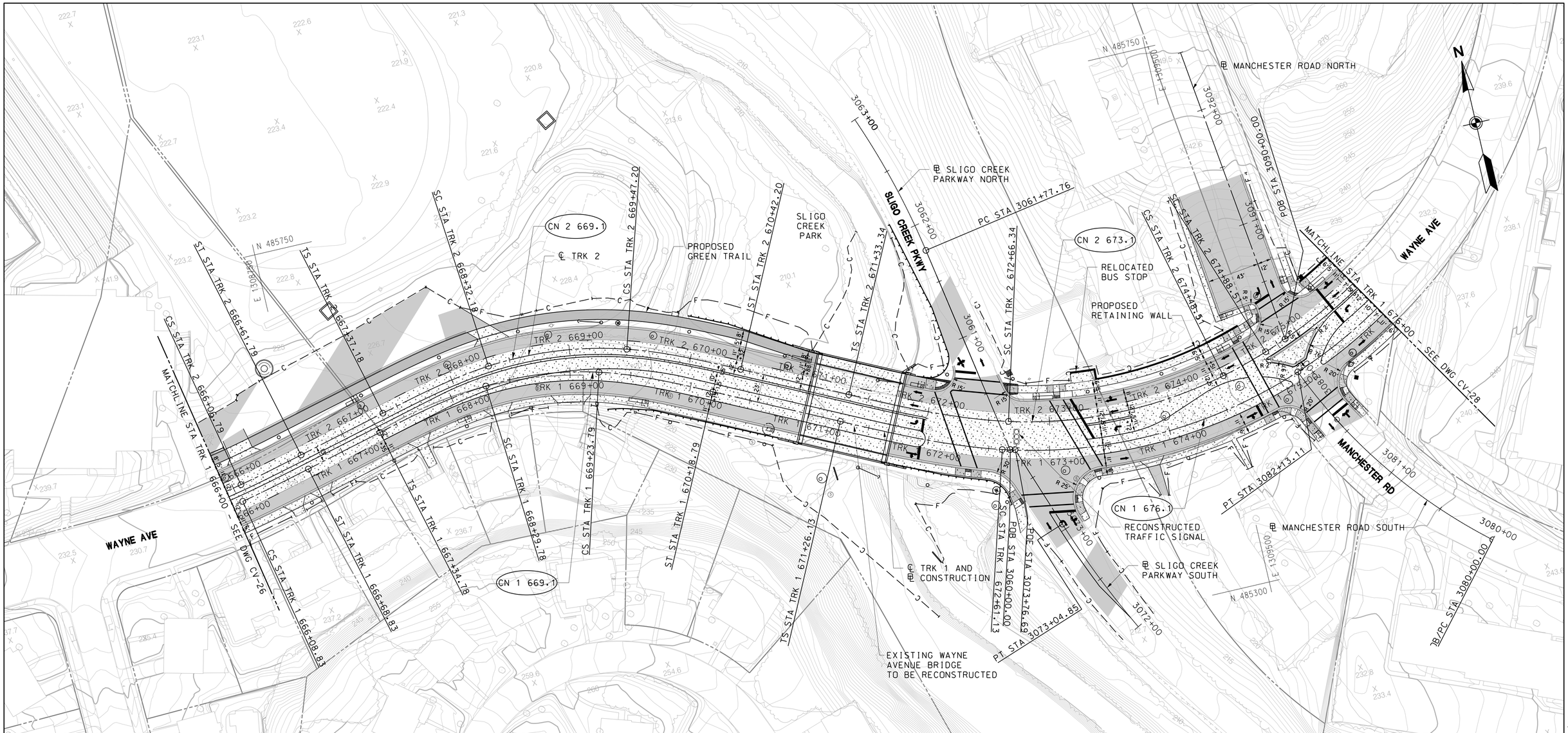

ALL ROAD MEASUREMENTS ARE TO THE FACE OF CURB
ALL STATIONS ARE BASED ON THE TRK 1 CENTERLINE

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 669.1	270	95	95	2.500	3.367	20
CN 2 669.1	300	95	95	2.500	2.780	20
CN 2 673.1	360	133	40	3.250	3.625	25
CN 1 676.1	402	135	160	3.250	2.907	25

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

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – WAYNE AVENUE
STA TRK 1 666+00 TO STA TRK 1 676+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-27
SHEET NO. 120 OF 497

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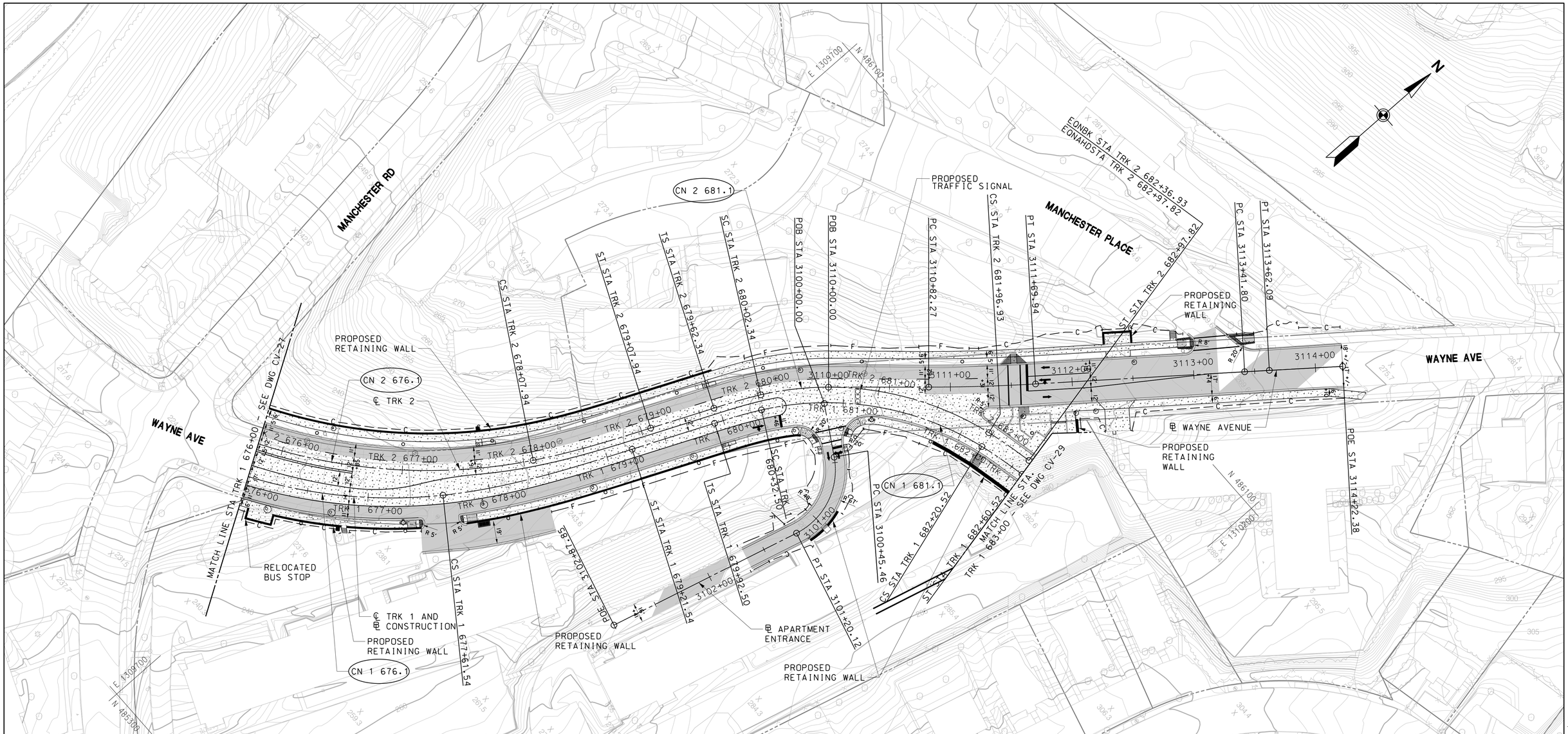

ALL ROAD MEASUREMENTS ARE TO THE FACE OF CURB
ALL STATIONS ARE BASED ON THE TRK 1 CENTERLINE

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 676.1	402	135	160	3.250	2.907	25
CN 2 676.1	450	40	100	3.250	2.250	25
CN 1 681.1	243	40	40	1.125	0.505	10
CN 2 681.1	250	40	40	1.125	0.459	10

HORIZONTAL SCALE:
40′ 0 40′ 80′
SCALE: 1″=40′

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – WAYNE AVENUE
STA TRK 1 676+00 TO STA TRK 1 683+00
DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–28
SHEET NO. 121 OF 497

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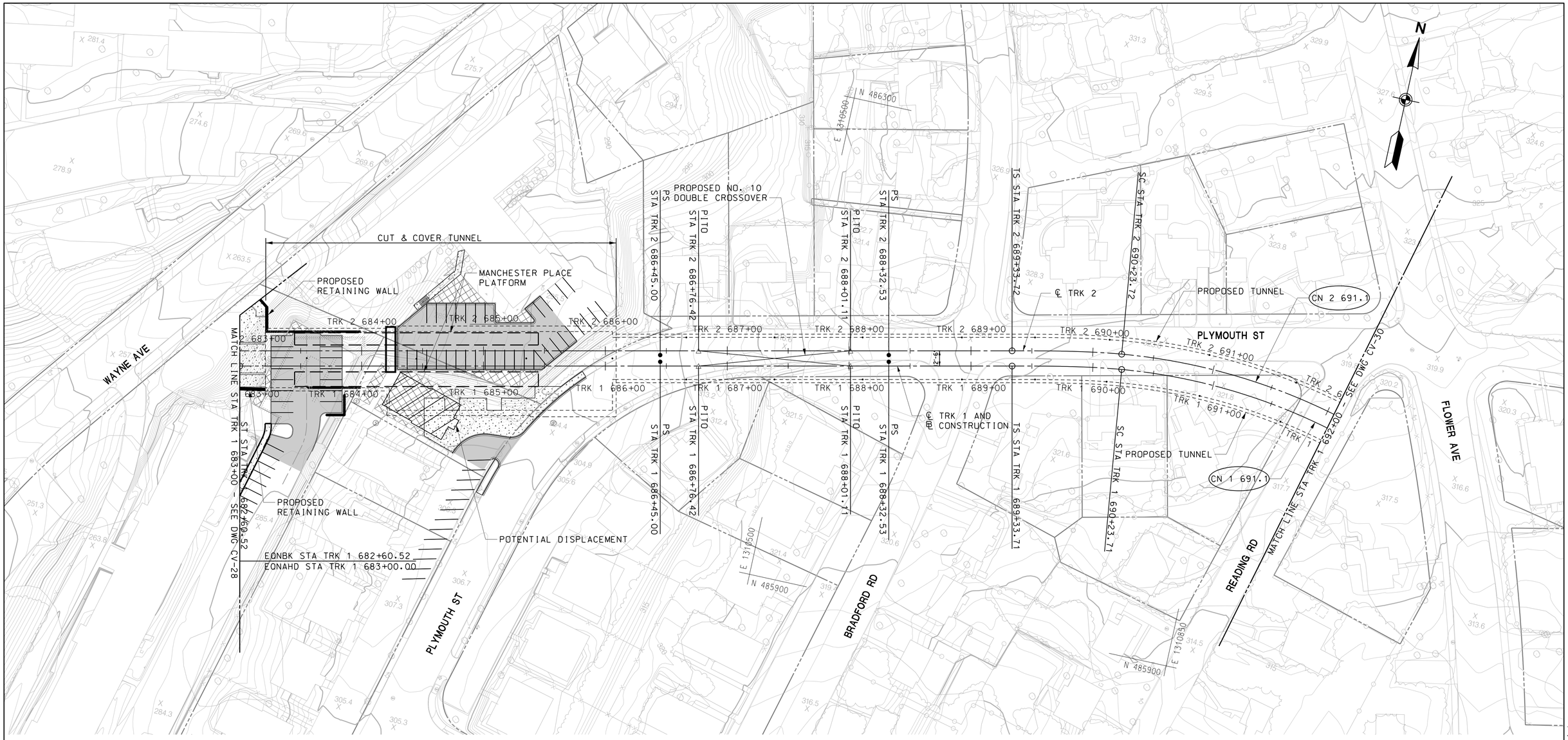

CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 691.1	480	90	90	2.125	1.175	20
CN 2 691.1	492.5	90	90	2.125	1.091	20

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

DRAFT WORK-IN-PROGRESS

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – PLYMOUTH STREET
STA TRK 1 683+00 TO STA TRK 1 692+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-29
SHEET NO. 122 OF 497

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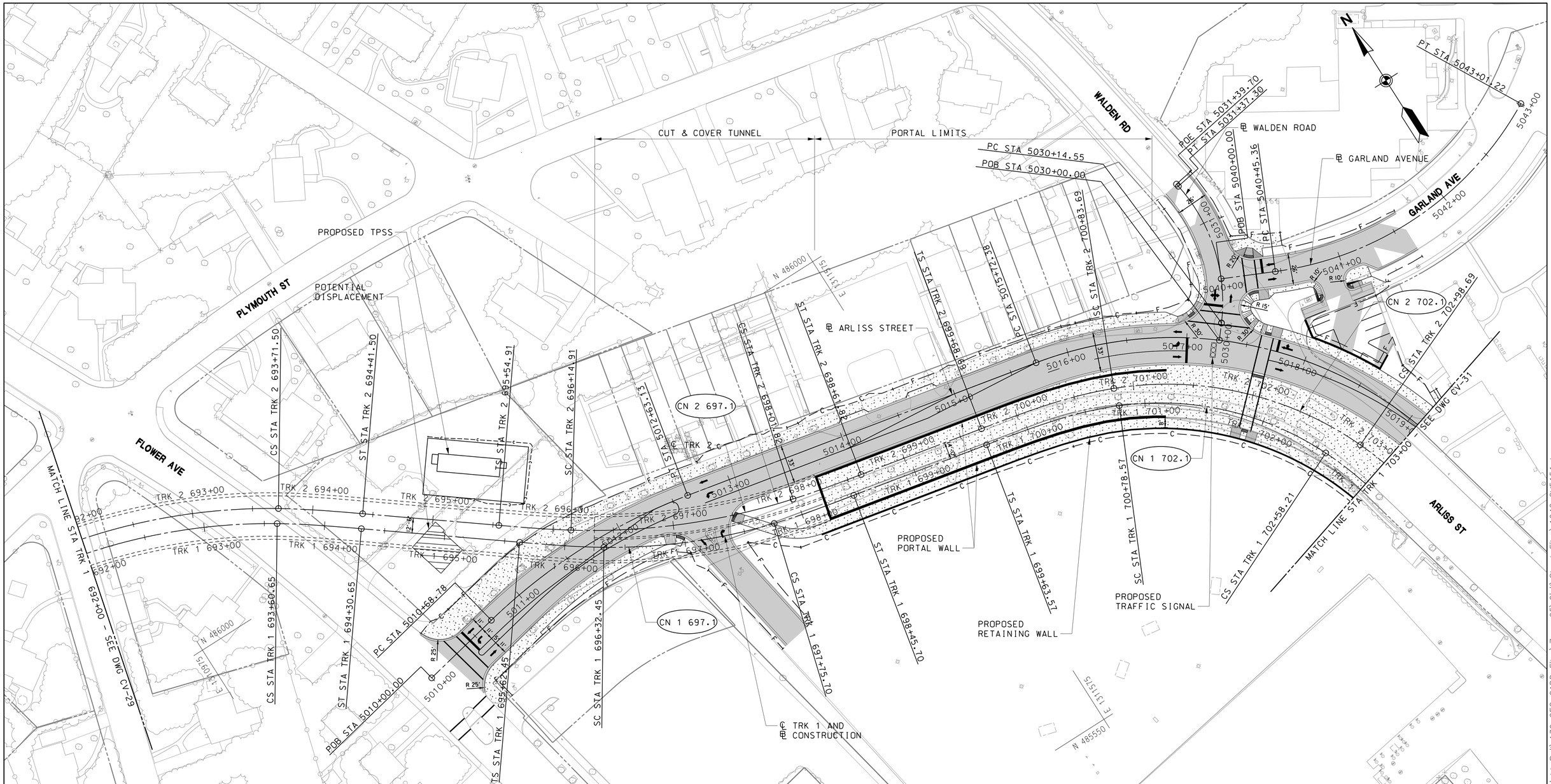
9/27/2012



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 697.1	475	70	70	2.000	1.335	20
CN 2 697.1	550	60	60	1.750	1.130	20
CN 1 702.1	250	115	115	3.375	2.961	20
CN 2 702.1	280	115	115	3.375	2.282	20

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

DRAFT WORK-IN-PROGRESS

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NO.	DESCRIPTION	BY	DATE

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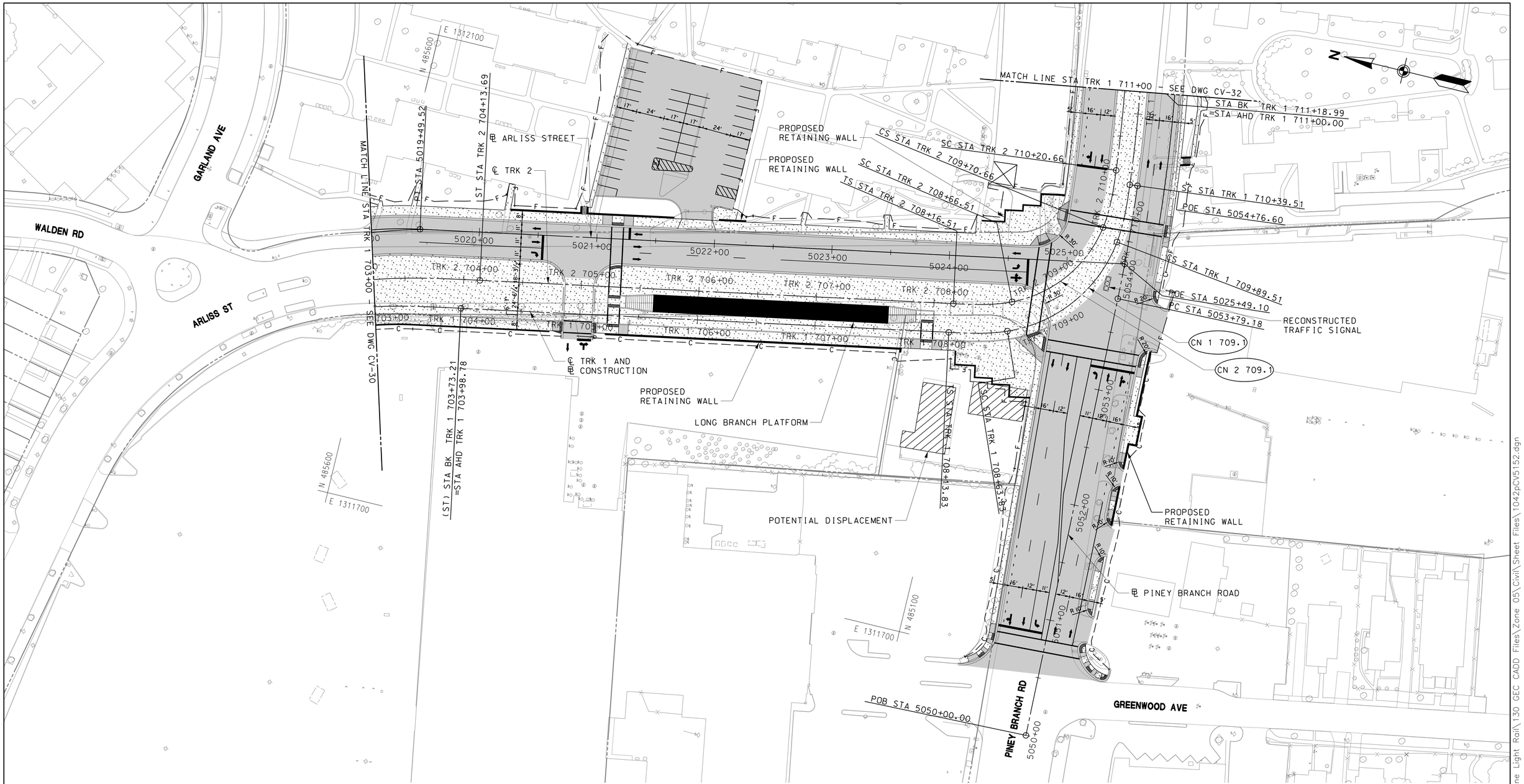
CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – PLYMOUTH TNL / ARLISS ST
STA TRK 1 692+00 TO STA TRK 1 703+00

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-30
SHEET NO. 123 OF 497

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 05\Civil\Sheet Files\1042pCV5151.dgn
5/3/2013



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 709.1	120	50	50	1.125	2.175	10
CN 2 709.1	105	50	50	1.125	2.646	10

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

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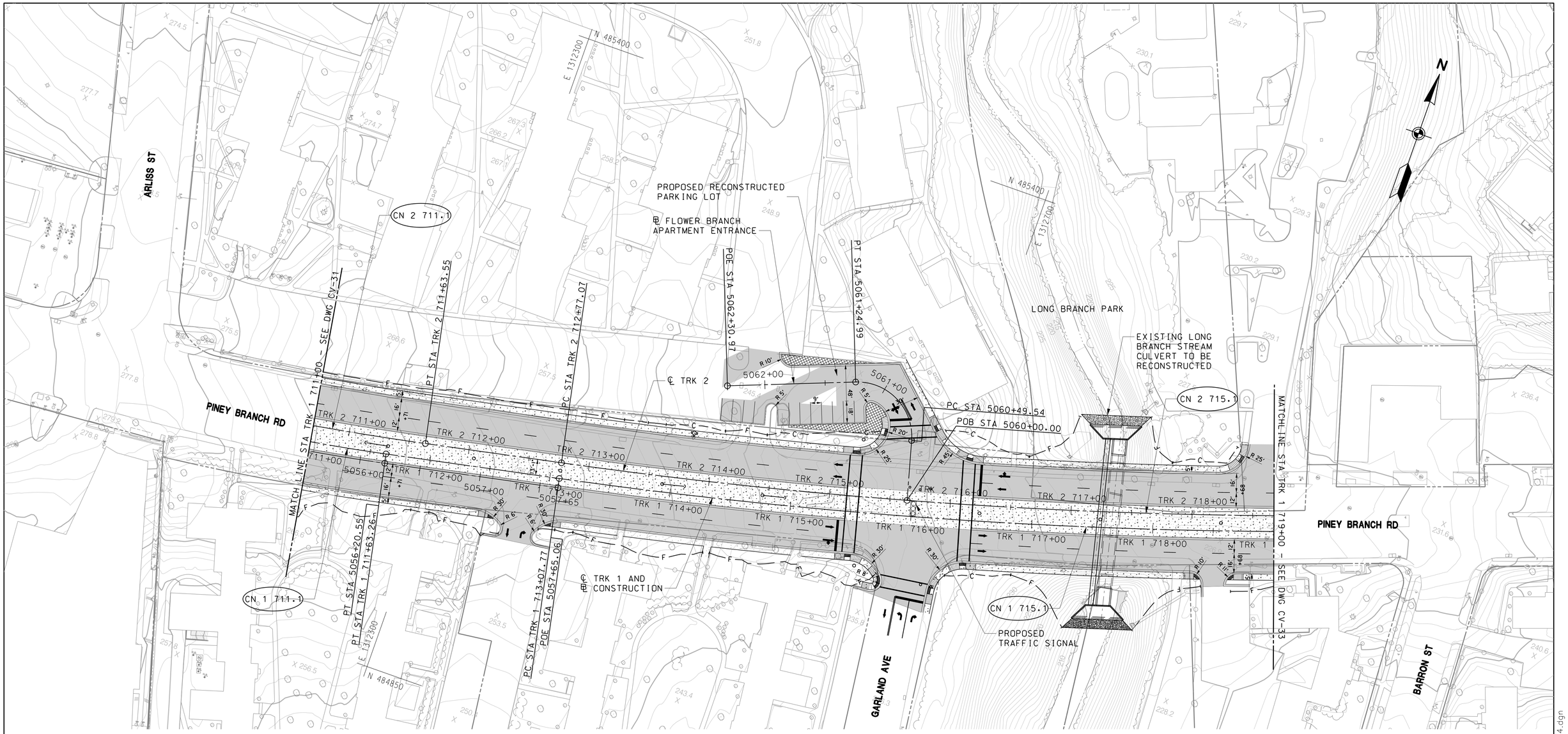
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN–ARLISS ST /PINEY BRANCH RD
STA TRK 1 703+00 TO STA TRK 1 711+00

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–31
SHEET NO. 124 OF 497

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 05\Civil\Sheet Files\1042pCV5152.dgn
5/3/2013



CURVE	RADIUS (FT)	LS1 (FT)	LS2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 711.1	1600	40	0	0.375	0.182	15
CN 2 711.1	2550	45	0	0.250	0.099	15
CN 1 715.1	4463.08	0	0	0.500	0.299	30
CN 2 715.1	4450	0	0	0.500	0.301	30

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

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CONCEPT PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – PINEY BRANCH ROAD
STA TRK 1 711+00 TO STA TRK 1 719+00

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-32
SHEET NO. 125 OF 497

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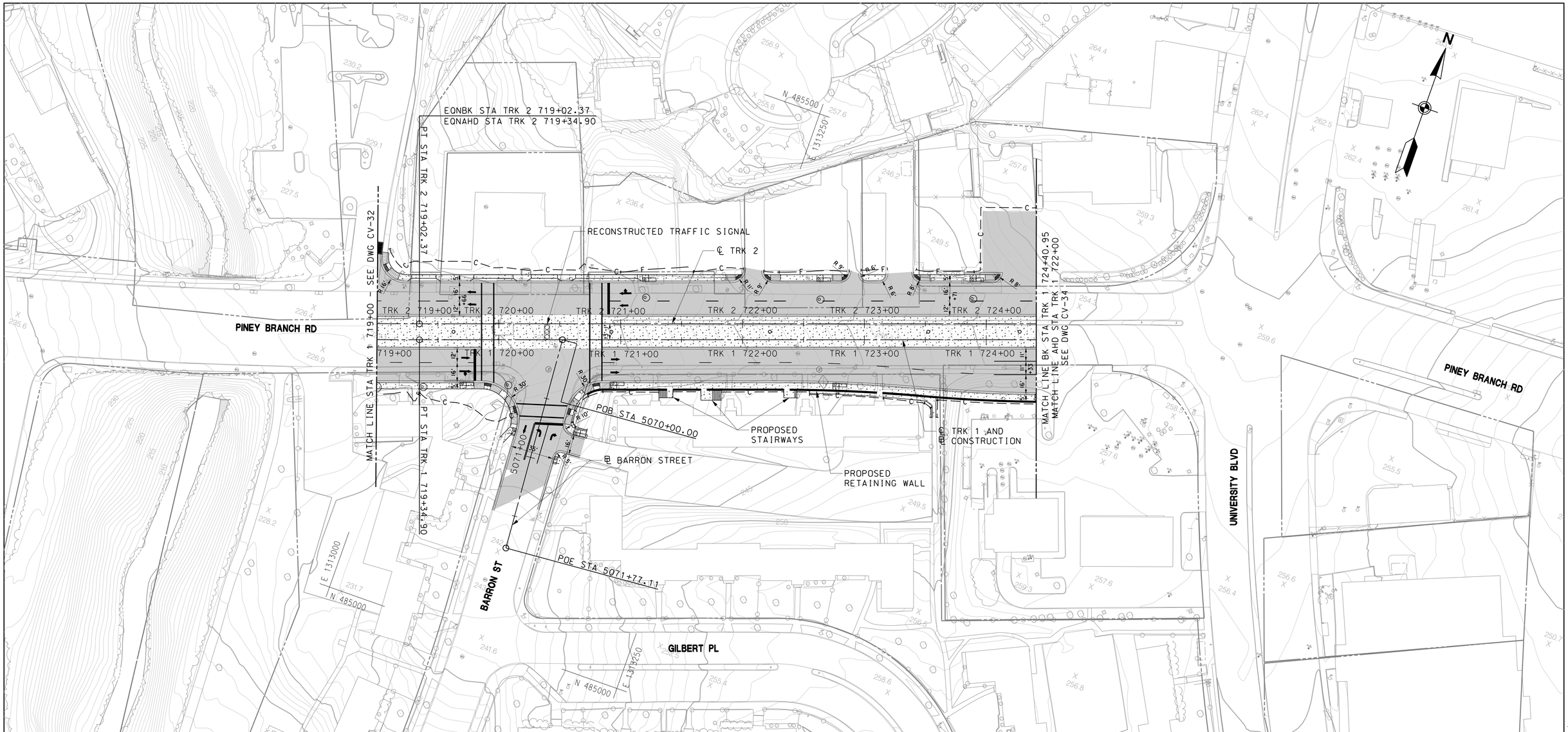
9/27/2012



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

DRAFT WORK-IN-PROGRESS

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – PINEY BRANCH ROAD
STA TRK 1 719+00 TO STA TRK 1 724+41

DATE: SEPTEMBER 28, 2012 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-33

SHEET NO. 126 OF 497

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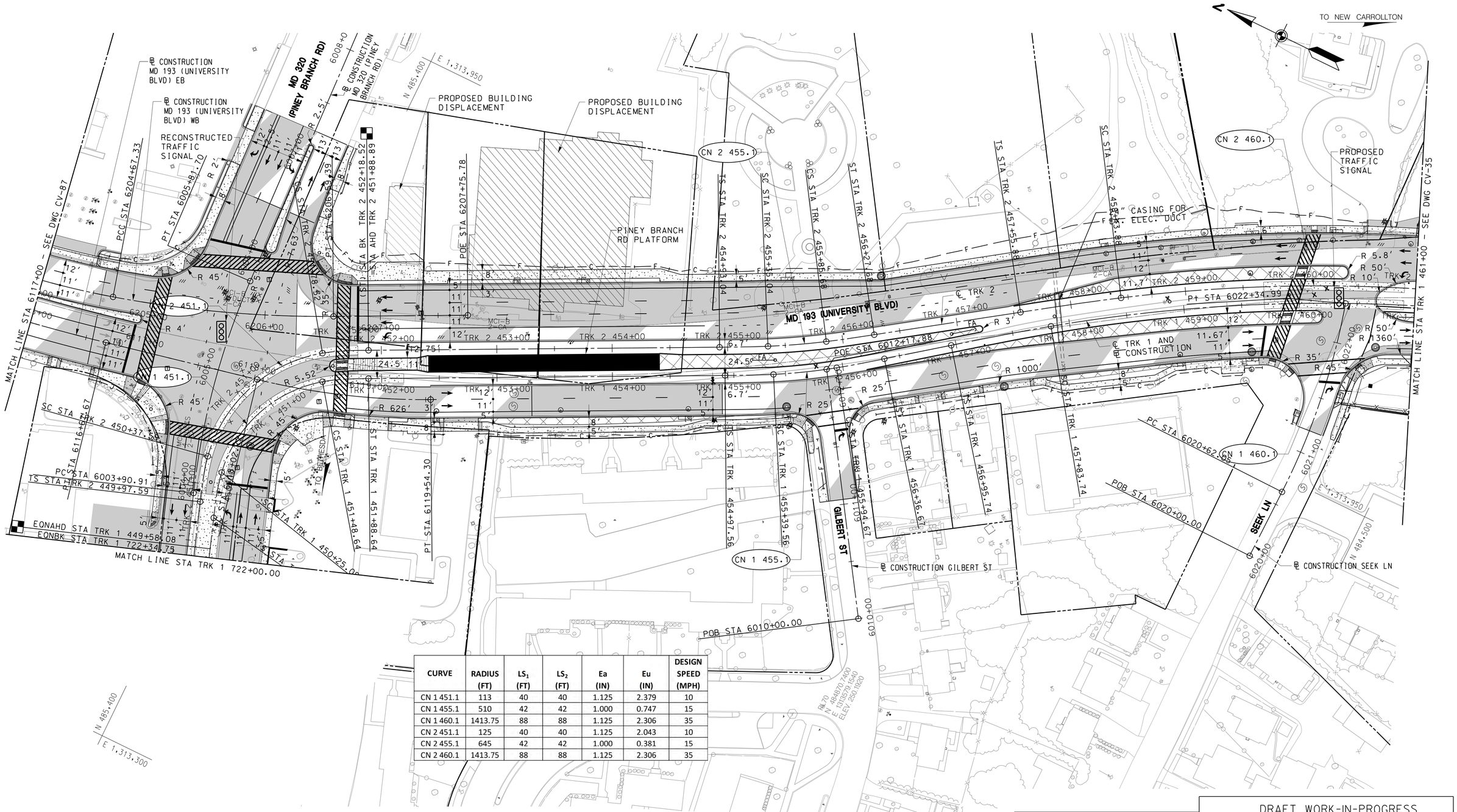
9/27/2012



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 451.1	113	40	40	1.125	2.379	10
CN 1 455.1	510	42	42	1.000	0.747	15
CN 1 460.1	1413.75	88	88	1.125	2.306	35
CN 2 451.1	125	40	40	1.125	2.043	10
CN 2 455.1	645	42	42	1.000	0.381	15
CN 2 460.1	1413.75	88	88	1.125	2.306	35

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)
STA TRK 1 722+00 TO STA TRK 1 461+00

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-34

SHEET NO. 127 OF 497

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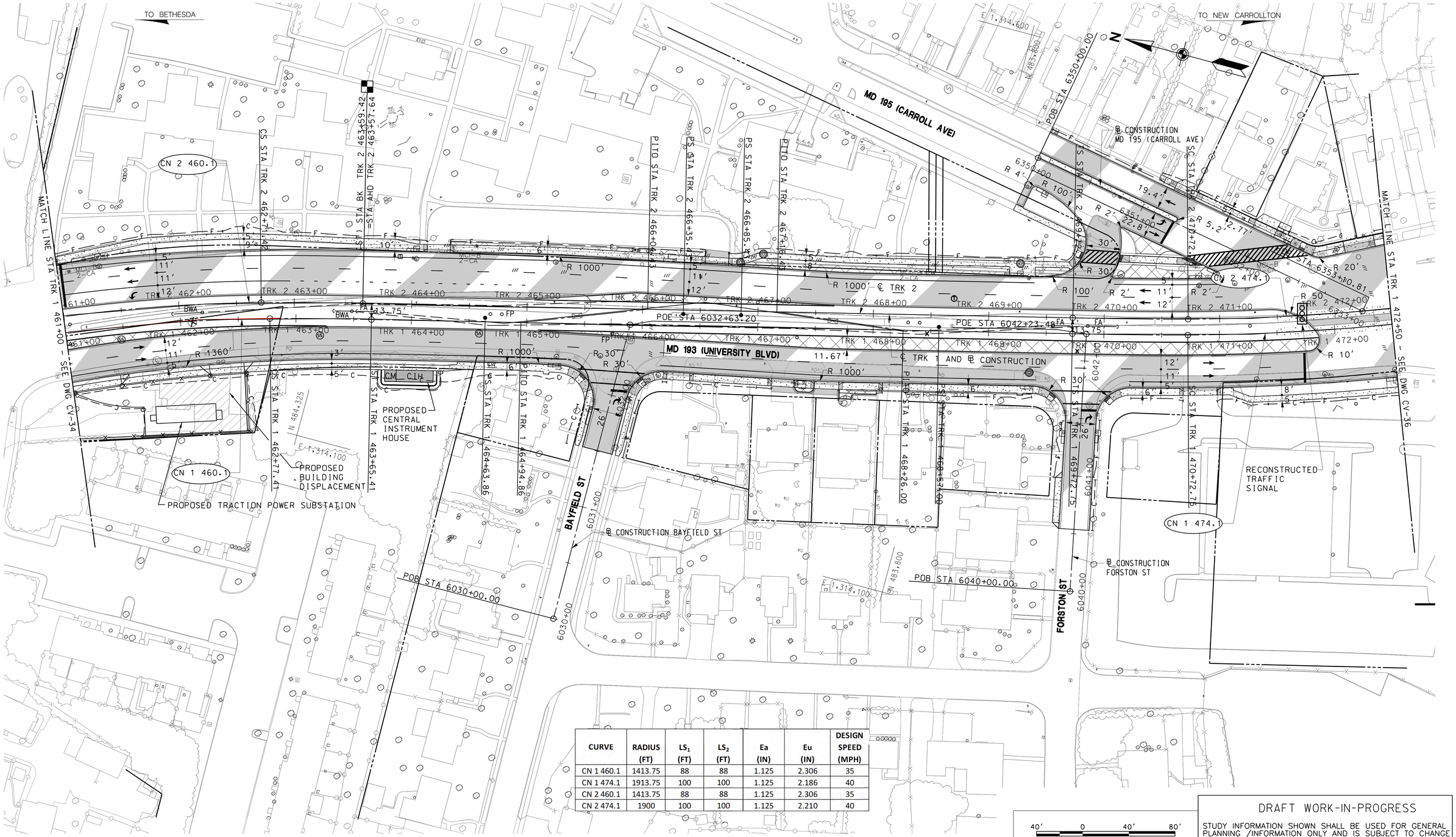
5/10/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 460.1	1413.75	88	88	1.125	2.306	35
CN 1 474.1	1913.75	100	100	1.125	2.186	40
CN 2 460.1	1413.75	88	88	1.125	2.306	35
CN 2 474.1	1900	100	100	1.125	2.210	40

40′ 0 40′ 80′
SCALE: 1"=40′

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)
STA TRK 1 461+00 TO STA TRK 1 472+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–35
SHEET NO. 128 OF 497

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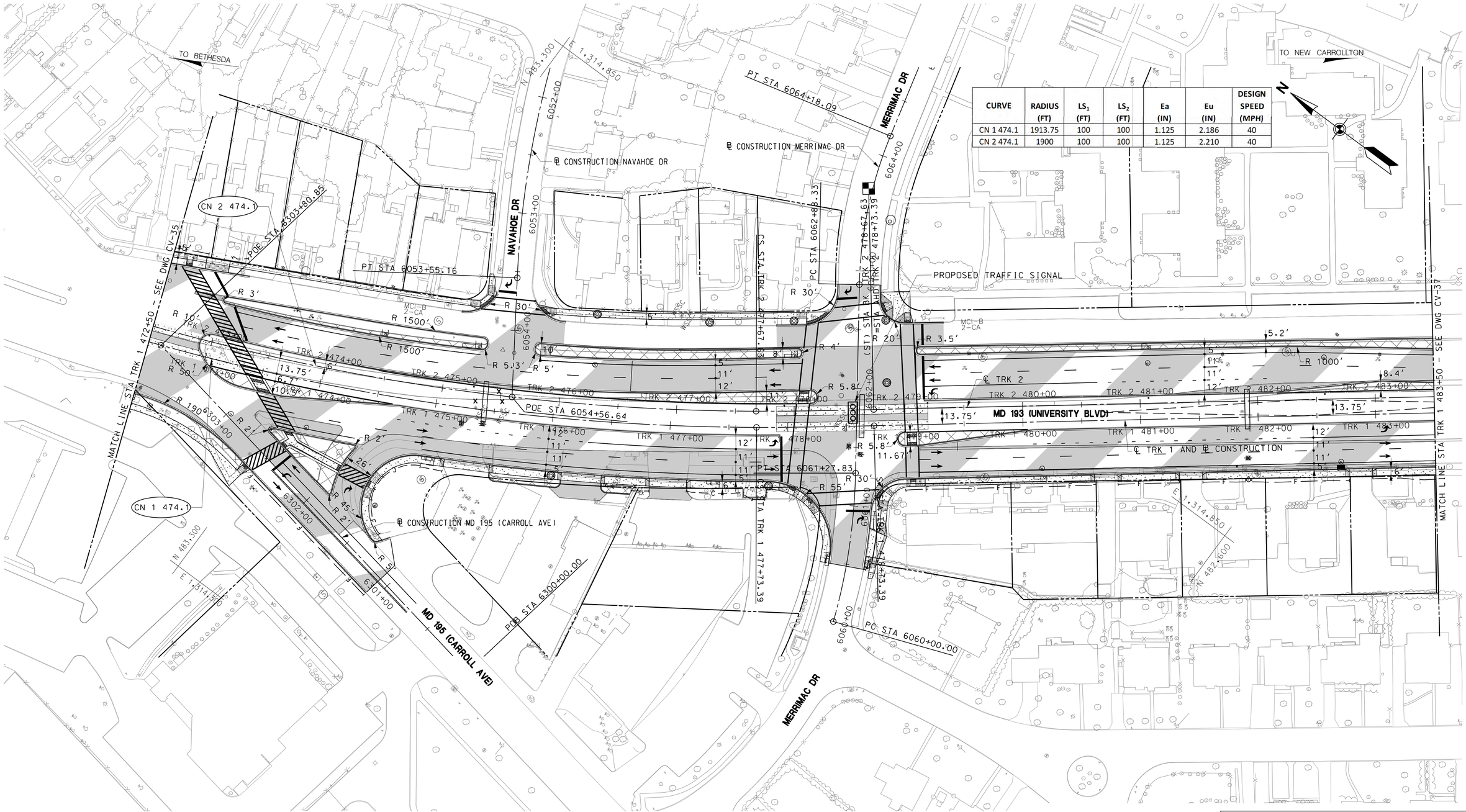
10/05/2013

CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 474.1	1913.75	100	100	1.125	2.186	40
CN 2 474.1	1900	100	100	1.125	2.210	40



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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)

STA TRK 1 472+50 TO STA TRK 1 483+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-36

SHEET NO. 129 OF 497

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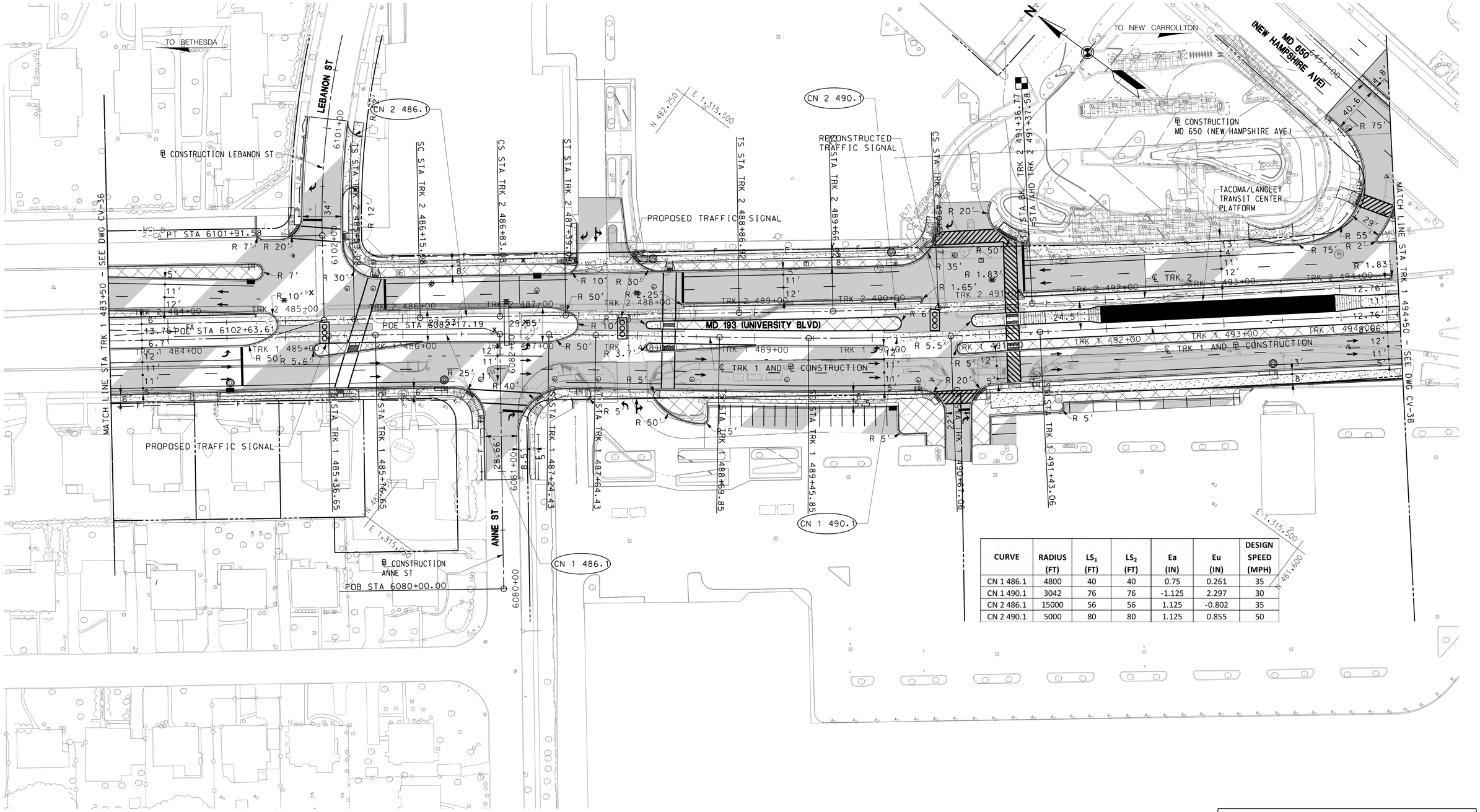
10/05/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 486.1	4800	40	40	0.75	0.261	35
CN 1 490.1	3042	76	76	-1.125	2.297	30
CN 2 486.1	15000	56	56	1.125	-0.802	35
CN 2 490.1	5000	80	80	1.125	0.855	50

40′ 0 40′ 80′
SCALE: 1"=40′

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)
STA TRK 1 483+50 TO STA TRK 1 494+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–37
SHEET NO. 130 OF 497

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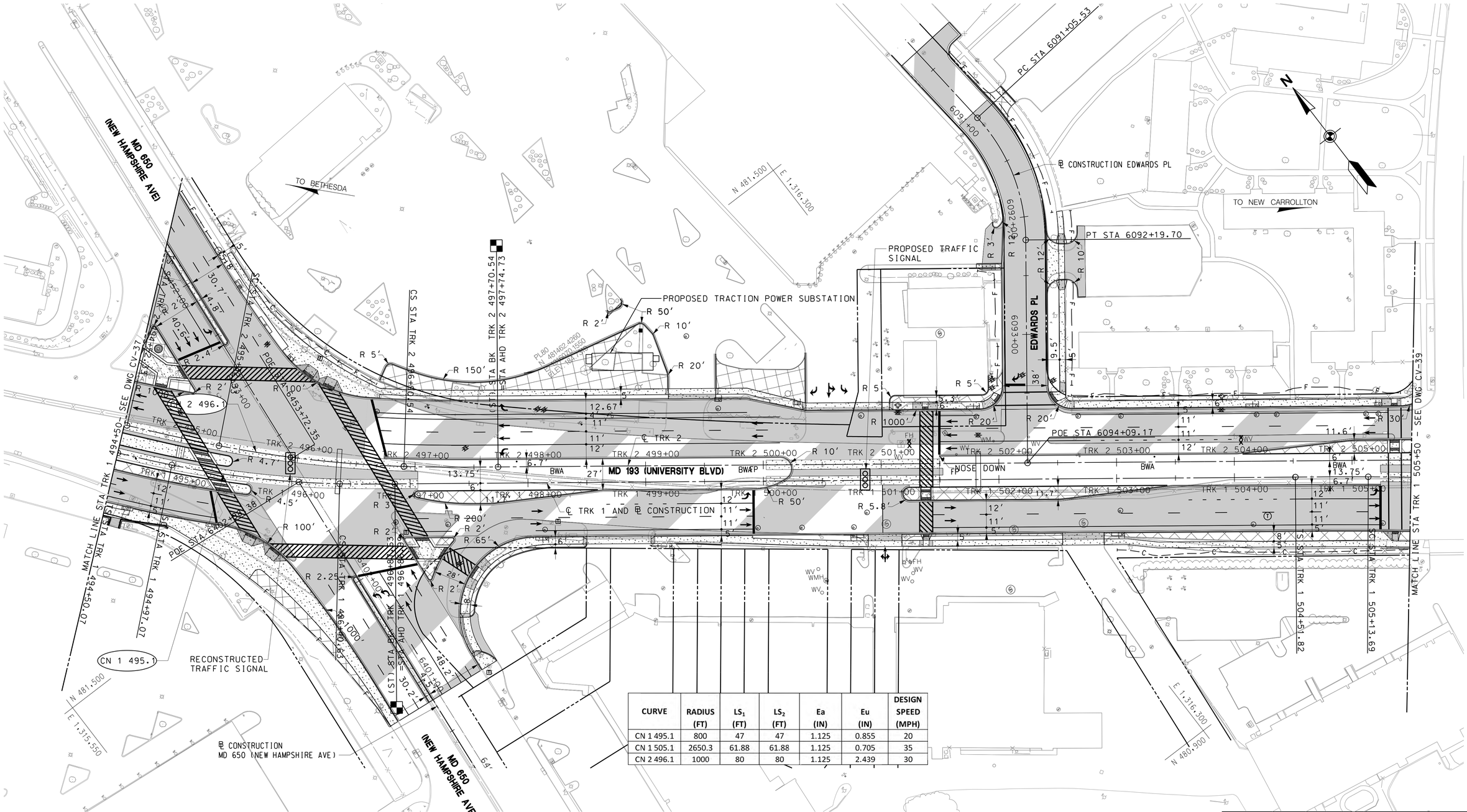
10/05/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 495.1	800	47	47	1.125	0.855	20
CN 1 505.1	2650.3	61.88	61.88	1.125	0.705	35
CN 2 496.1	1000	80	80	1.125	2.439	30

40′ 0 40′ 80′
SCALE: 1"=40′

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)
STA TRK 1 494+50 TO STA TRK 1 505+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–38
SHEET NO. 131 OF 497

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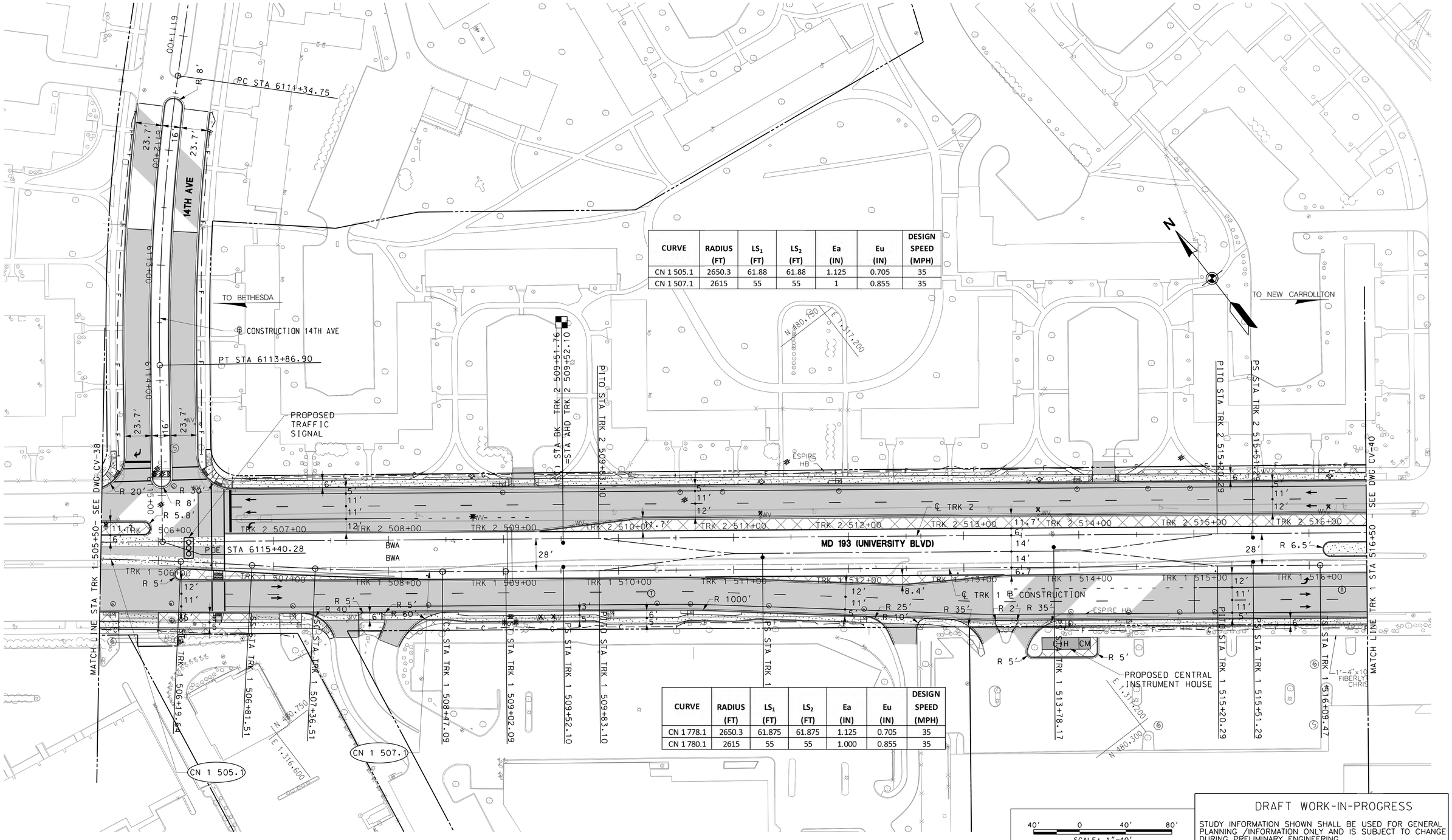

CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 505.1	2650.3	61.88	61.88	1.125	0.705	35
CN 1 507.1	2615	55	55	1	0.855	35

CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 778.1	2650.3	61.875	61.875	1.125	0.705	35
CN 1 780.1	2615	55	55	1.000	0.855	35

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)

STA TRK 1 505+50 TO STA TRK 1 516+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-39

SHEET NO. 132 OF 497

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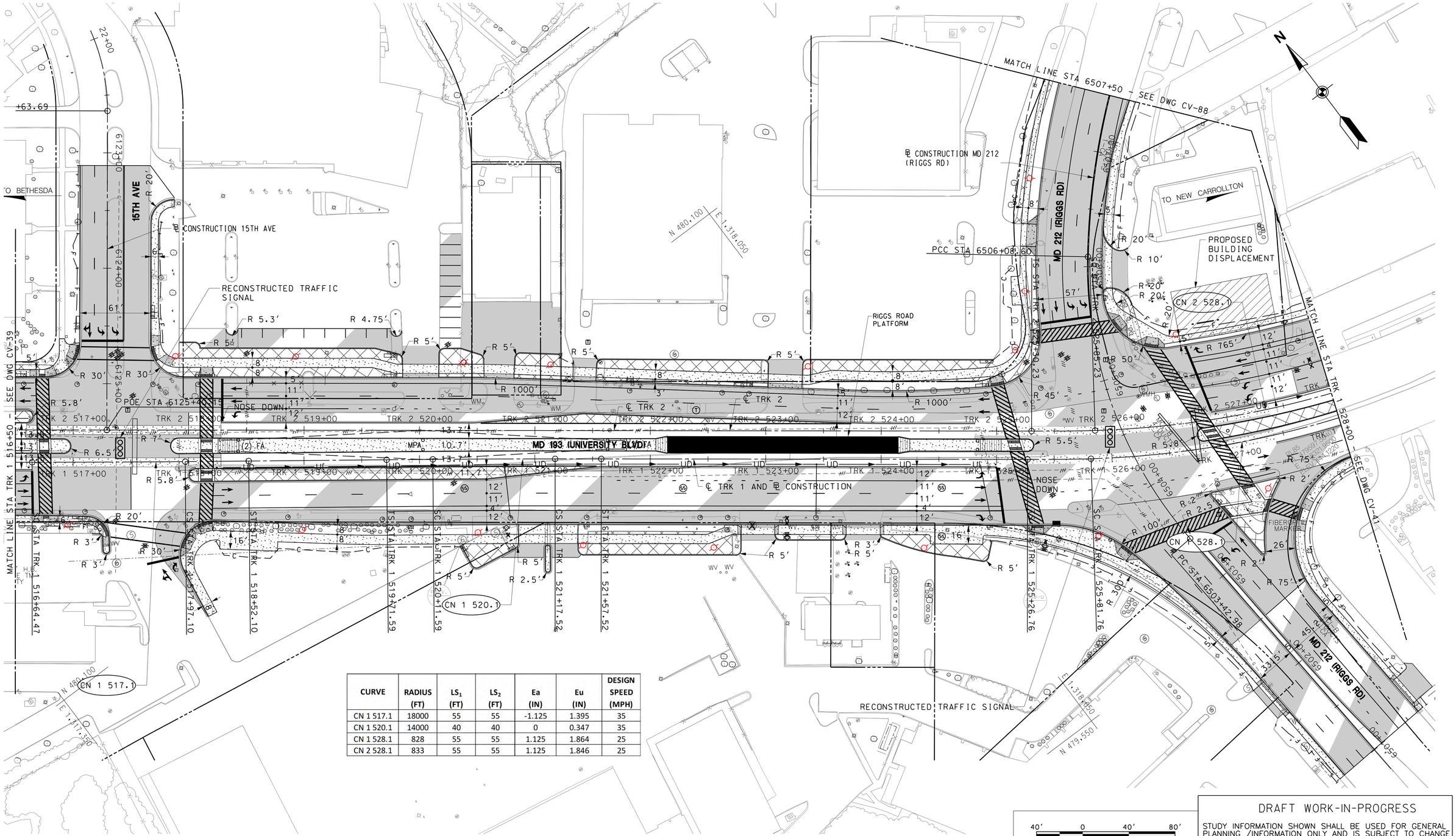
10/05/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 517.1	18000	55	55	-1.125	1.395	35
CN 1 520.1	14000	40	40	0	0.347	35
CN 1 528.1	828	55	55	1.125	1.864	25
CN 2 528.1	833	55	55	1.125	1.846	25

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)

STA TRK 1 516+50 TO STA TRK 1 528+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-40

SHEET NO. 133 OF 497

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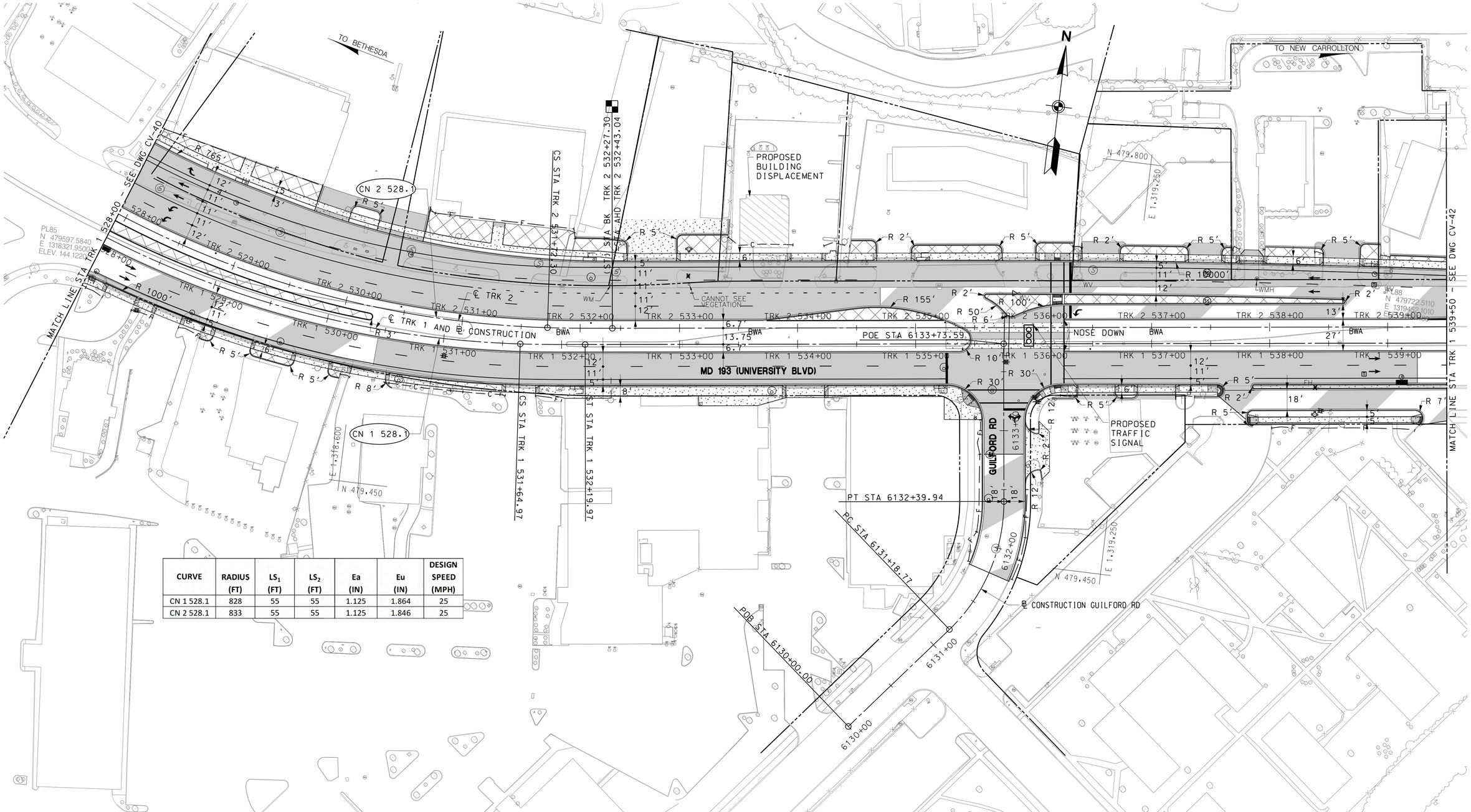
10/05/2013



CURVE	RADIUS (FT)	LS_1 (FT)	LS_2 (FT)	Ea (IN)	Eu (IN)	DESIGN SPEED (MPH)
CN 1 528.1	828	55	55	1.125	1.864	25
CN 2 528.1	833	55	55	1.125	1.846	25

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PURPLE LINE LIGHT RAIL

ALIGNMENT PLAN – MD 193 (UNIVERSITY BLVD)

STA TRK 1 528+00 TO STA TRK 1 539+50

DATE: MAY 8, 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-41

SHEET NO. 134 OF 497

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