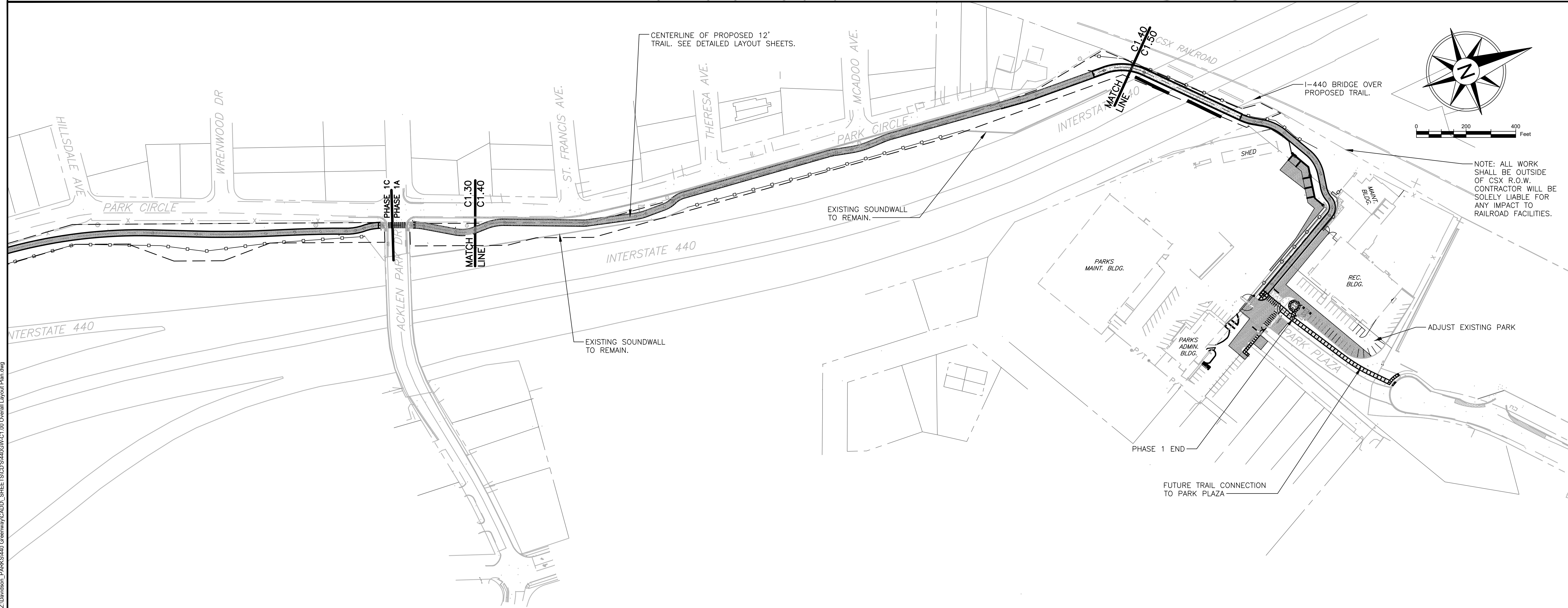


PHASE PLAN:
 PHASE 1A: ACKLEN PARK DR. TO PARK PLAZA
 PHASE 1B: ELMINGTON PARK TO MURPHY RD.
 PHASE 1C: MURPHY RD. TO ACKLEN PARK DR.
 NOTE: CONTRACTOR SHALL RECEIVE A NOTICE TO PROCEED FOR EACH INDIVIDUAL PHASE.



NOTE: ALL WORK SHALL BE OUTSIDE OF CSX R.O.W. CONTRACTOR WILL BE SOLELY LIABLE FOR ANY IMPACT TO RAILROAD FACILITIES.

NO.	DATE	BY	DESCRIPTION
1	10/06/16	NAC	MWS TECHNICAL COMMENTS
2	01/09/17	MJP	OWNER COMMENTS
3	03/15/17	NAC	ADA COMMENTS
4	03/22/17	NAC	ADA OWNER COMMENTS
5	05/31/17	MJP	CONSTRUCTION DIRECTIVE #1
6	06/21/17	NAC	CONSTRUCTION DIRECTIVE #2
7	07/13/17	NAC	ADDED SHEET C2.51
8	08/16/17	NAC	C0.23, C1.30, C1.50, C2.30, C2.50

COLLIER
 ENGINEERING CO., INC.
 CONSULTING & DESIGN & CONSTRUCTION

5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
 PHONE: (615) 331-1441 FAX: (615) 331-1050

CONSTRUCTION DOCUMENTS
440 GREENWAY - PHASE I
 DEPARTMENT OF PARKS AND RECREATION
 METRO DAVIDSON COUNTY, TENNESSEE



DATE: 05/04/2016
 DESIGNED BY: MLD
 SUPERVISED BY: JDC
 CHECKED BY: CAC

OVERALL LAYOUT PLAN

SHEET NO: C1.00

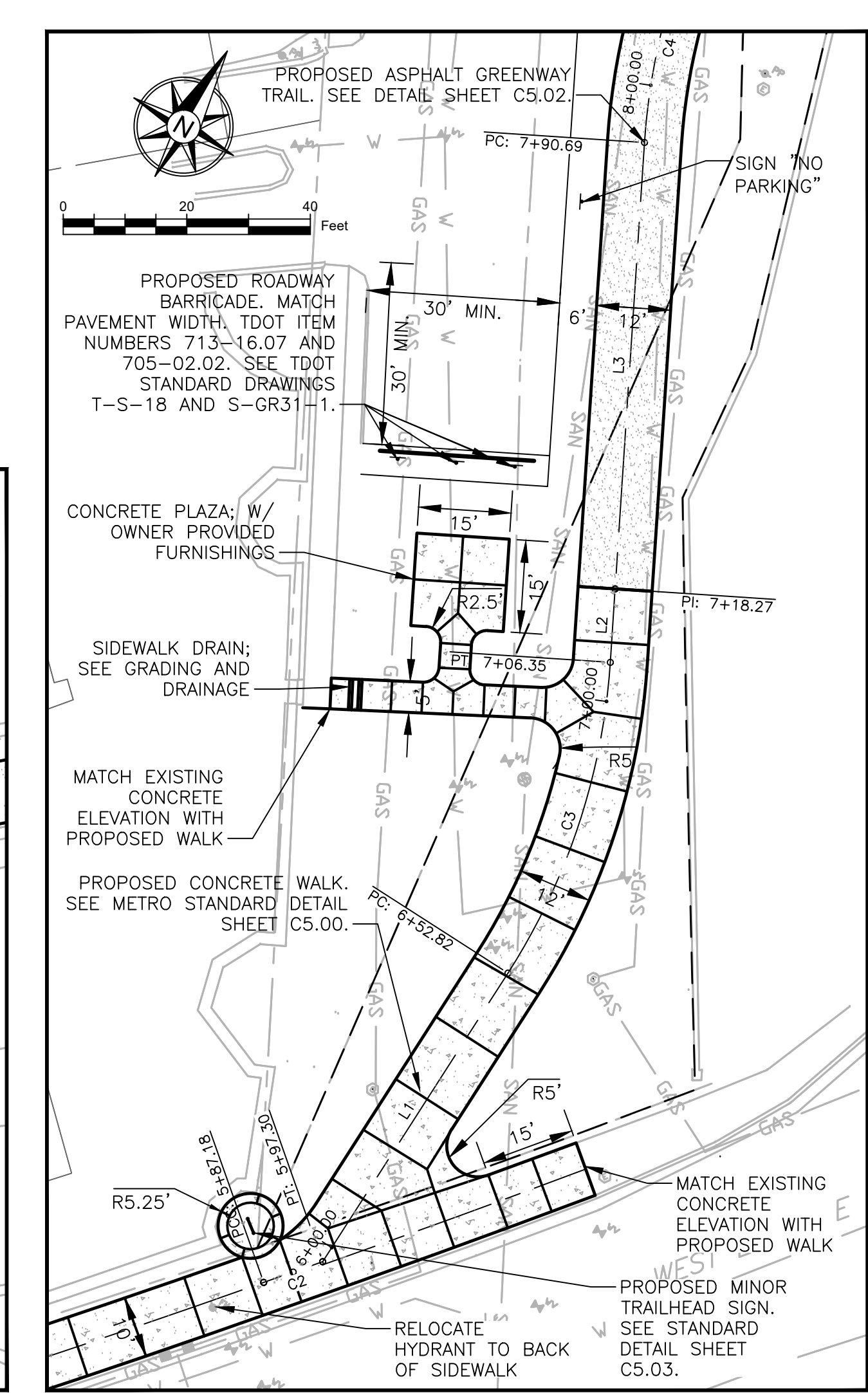
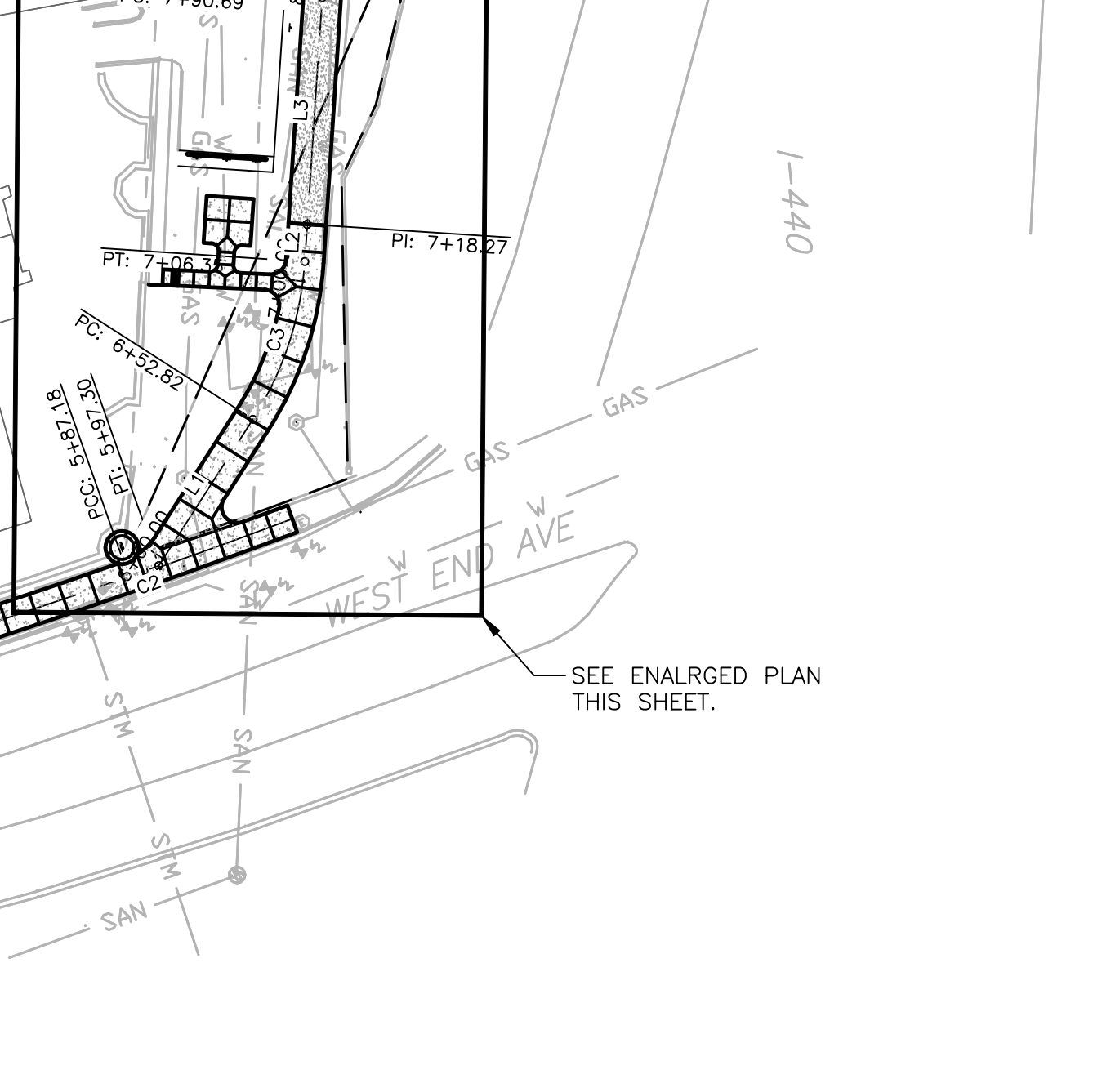
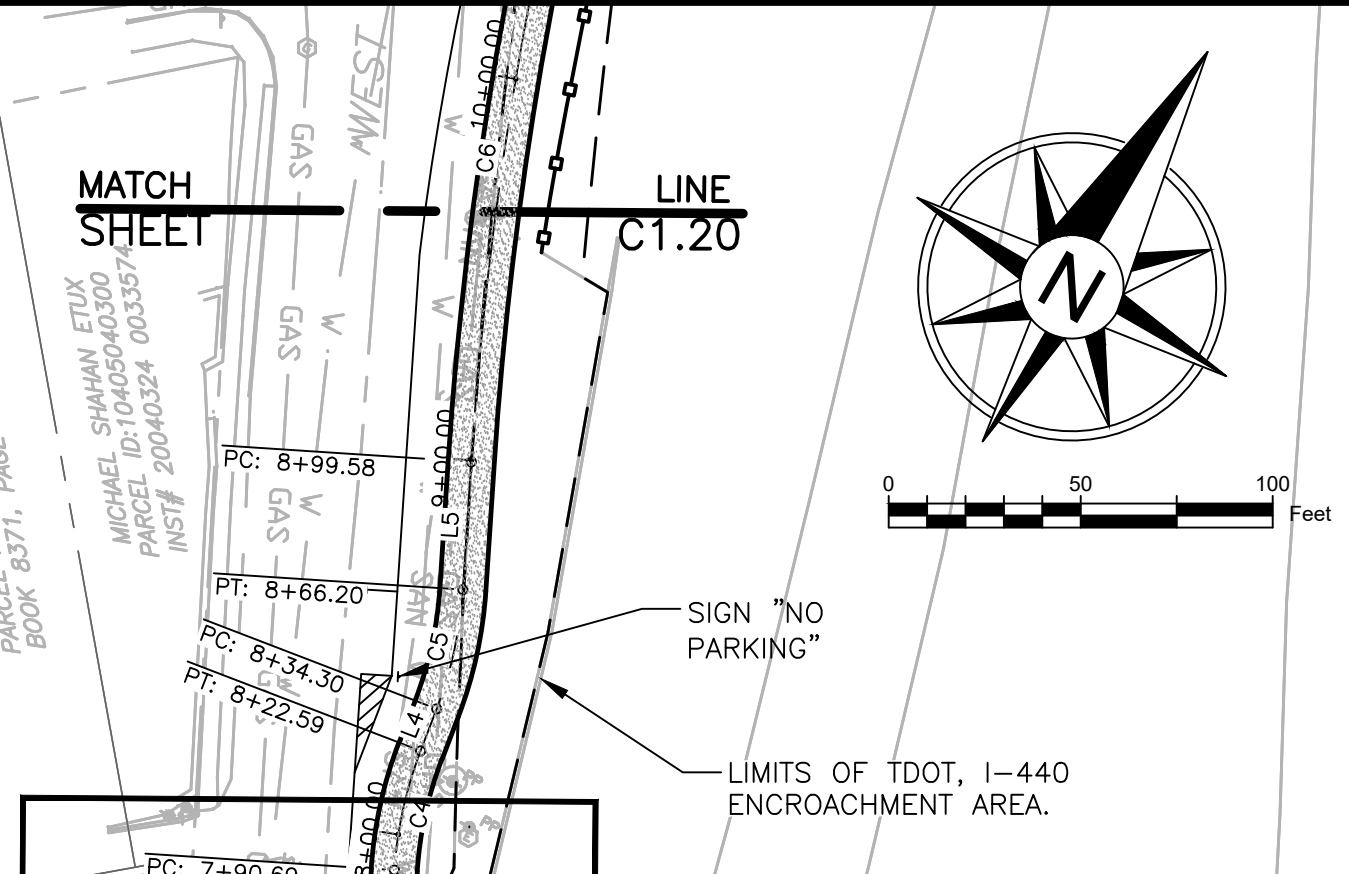
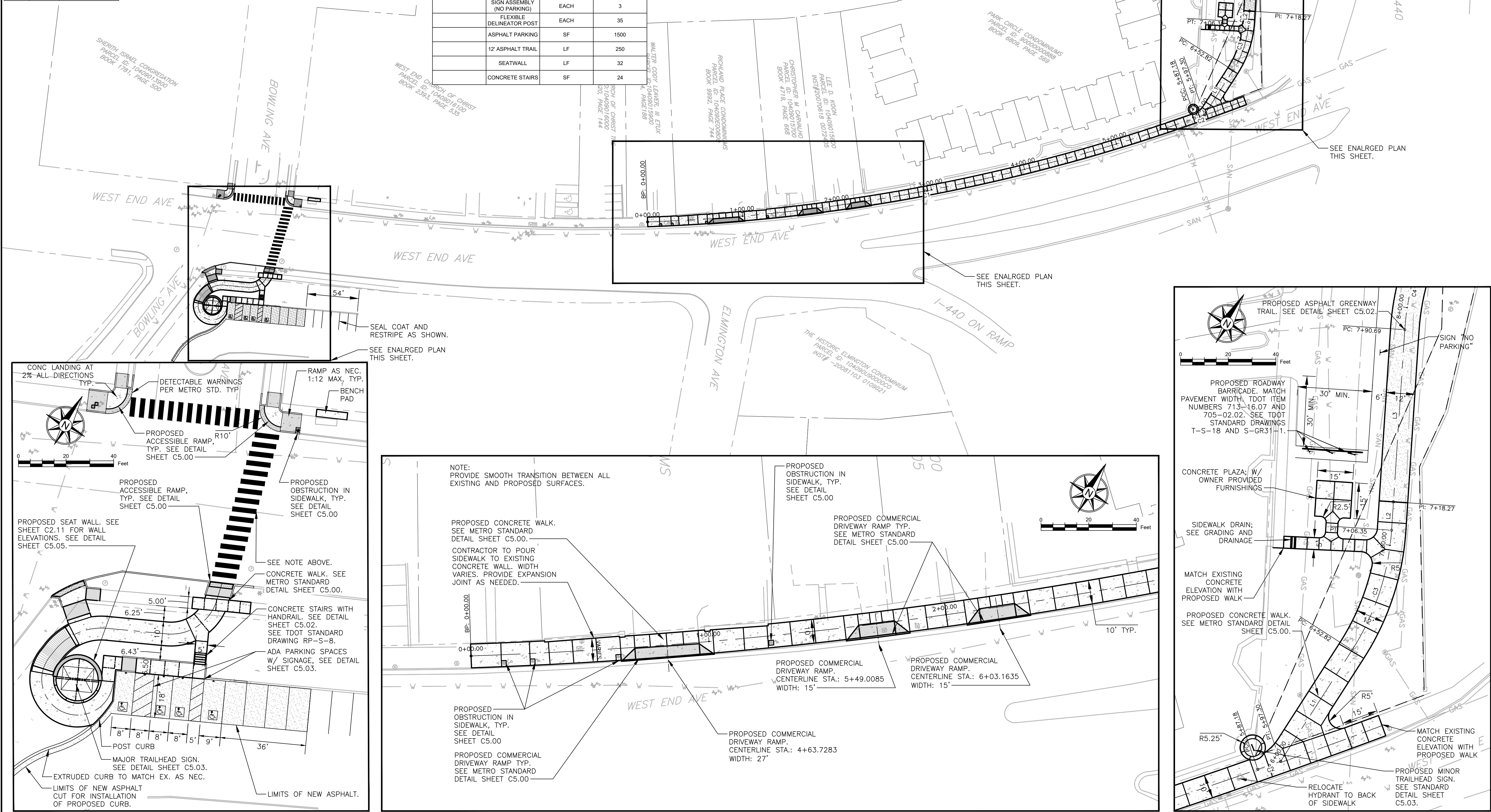
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Line Table: Alignments			Line Table: Alignments			Curve Table: Alignments			Curve Table: Alignments		
Line #	Length	Direction	Line #	Length	Direction	Curve #	Radius	Length	Curve #	Radius	Length
L1	55.519	N02° 41' 42.84"E	L21	22.826	N01° 44' 08.21"W	C1	1919.123	587.177	C21	100.000	39.000
L2	11.923	N26° 14' 15.16"W	L22	159.079	N20° 36' 34.76"E	C2	2319.213	10.126	C22	50.000	7.324
L3	72.416	N26° 14' 15.16"W	L23	98.012	N12° 13' 02.45"E	C3	106.000	53.527	C23	100.000	22.269
L4	11.719	N08° 59' 45.91"W	L24	39.639	N00° 32' 30.39"W	C4	106.000	31.898	C24	50.000	19.295
L5	33.375	N26° 14' 15.16"W	L25	3.078	N22° 39' 08.25"W	C5	106.000	31.898	C25	50.000	23.309
L6	263.222	N17° 14' 43.90"W	L26	31.168	N10° 58' 09.55"E	C6	1006.000	157.882	C26	156.000	18.819
L7	33.985	N17° 14' 43.90"W	L27	30.419	N02° 27' 25.90"W	C7	806.000	131.085	C27	156.000	36.557
L8	79.271	N07° 55' 37.60"W	L28	39.305	N04° 18' 20.78"E	C8	306.000	89.379	C28	156.000	18.414
L9	68.675	N08° 48' 30.03"E	L29	122.679	N00° 13' 46.35"E	C9	63.466	109.171	C29	494.000	35.145
L10	12.882	N07° 07' 41.24"E	L30	23.368	N00° 13' 46.35"E	C10	56.000	44.269	C30	106.000	82.716
L11	65.998	N03° 13' 01.31"E	L31	214.853	N44° 56' 23.47"E	C11	61.943	52.064	C31	106.000	27.751
L12	35.668	N25° 20' 41.55"W	L32	16.454	N29° 56' 23.47"E	C12	56.000	66.640	C32	96.937	50.756
L13	11.657	N42° 27' 20.11"W	L33	62.014	N59° 56' 23.47"E	C13	1000.000	63.207	C33	75.000	50.251
L14	48.789	N64° 33' 36.55"W	L34	28.783	S81° 40' 17.37"E	C14	1006.000	377.441	C34	50.000	25.781
L15	66.716	N03° 37' 17.32"E	L35	180.234	S30° 10' 13.15"E	C15	1994.000	139.869	C35	25.000	35.362
L16	124.863	N00° 00' 00.00"E	L36	27.135	S30° 10' 13.15"E	C16	2006.000	103.922			
L17	87.964	N21° 29' 48.42"E	L37	76.900	N59° 18' 58.44"E	C17	106.000	36.478			
L18	58.559	N17° 28' 39.98"E	L38			C18	106.000	34.936			
L19	65.815	N19° 36' 45.74"E	L39			C19	106.000	20.321			
L20	65.187	N30° 35' 47.95"E				C20	71.000	40.066			

SHEET C1.10 QUANTITIES			
ITEM NUMBER	ITEM NAME	UNIT	QUANTITY
604-01.04	1 1/2" STL PIPE	LF	55
701-01.01	CONC. SIDEWALK (4")	SF	10778
701-02.01	CONCRETE CURB	SFL	355
701-02.02	CONC. DRIVEWAY RAMP	SF	400
702-01	CONC. CURB	LF	225
702-01.01	EXTRUDED CURB	LF	65
716-05.08	PAINTED PVTM MARKING (PARKING LINE)	LF	400
SP-3	BOLLARD (REMOVABLE)	EACH	1
SP-4	BOLLARD (PERMANENT)	EACH	5
SP-5	MINOR TRAILHEAD SIGN	EACH	1
SP-6	MAJOR TRAILHEAD SIGN KIOSK	EACH	1
	ADA PARKING SIGN ASSEMBLY	EACH	4
	PAINTED PAVEMENT MARKING (ADA SYMBOL)	EACH	4
	DETECTABLE WARNING	SF	256
	GUARDRAIL	LF	25
	SIGN ASSEMBLY (OBJ MARKER)	EACH	3
	SIGN ASSEMBLY (NO PARKING)	EACH	3
	FLEXIBLE DELINEATOR POST	EACH	35
	ASPHALT PARKING	SF	1500
	12" ASPHALT TRAIL	LF	250
	SEATWALL	LF	32
	CONCRETE STAIRS	SF	24

SEE TRAFFIC PLAN SHEETS FOR ALL MARKINGS, SIGNAL IMPROVEMENTS AND SIGNAGE ASSOCIATED WITH INTERSECTIONS. IF WORK BY OTHERS IS IN PROGRESS OR HAS NOT BEGUN, CONTRACTOR IS RESPONSIBLE FOR TEMPORARY PEDESTRIAN CROSSING CONSISTENT WITH SHEET T1.01. TEMPORARY PEDESTRIAN CROSSING WILL BE PER METRO STANDARDS FOR TEMPORARY PAINTED TRAFFIC MARKINGS.

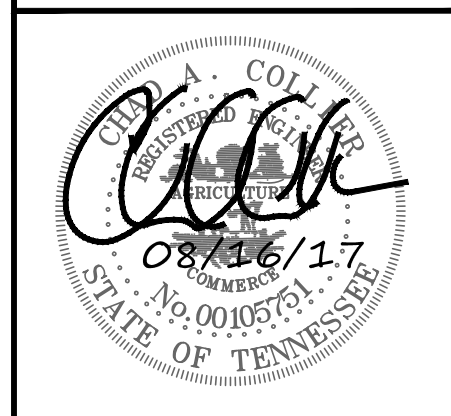


REVISIONS	
NO.	DESCRIPTION
1	10/06/16 NAC MWS TECHNICAL COMMENTS
2	07/09/17 MJP OWNER COMMENTS
3	03/15/17 NAC ADA COMMENTS
4	03/22/17 NAC ADA COMMENTS
5	05/31/17 MJP CONSTRUCTION DIRECTIVE #1
6	06/21/17 NAC CONSTRUCTION DIRECTIVE #2
7	07/31/17 NAC ADDED SHEET C2.51
8	08/16/17 NAC C0.23, C1.30, C1.50, C2.30, C2.50

COLLIER ENGINEERING CO., INC.
CONSULTING & DESIGN & CONSTRUCTION

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CONSTRUCTION DOCUMENTS
440 GREENWAY - PHASE I
DEPARTMENT OF PARKS AND RECREATION
METRO DAVIDSON COUNTY, TENNESSEE

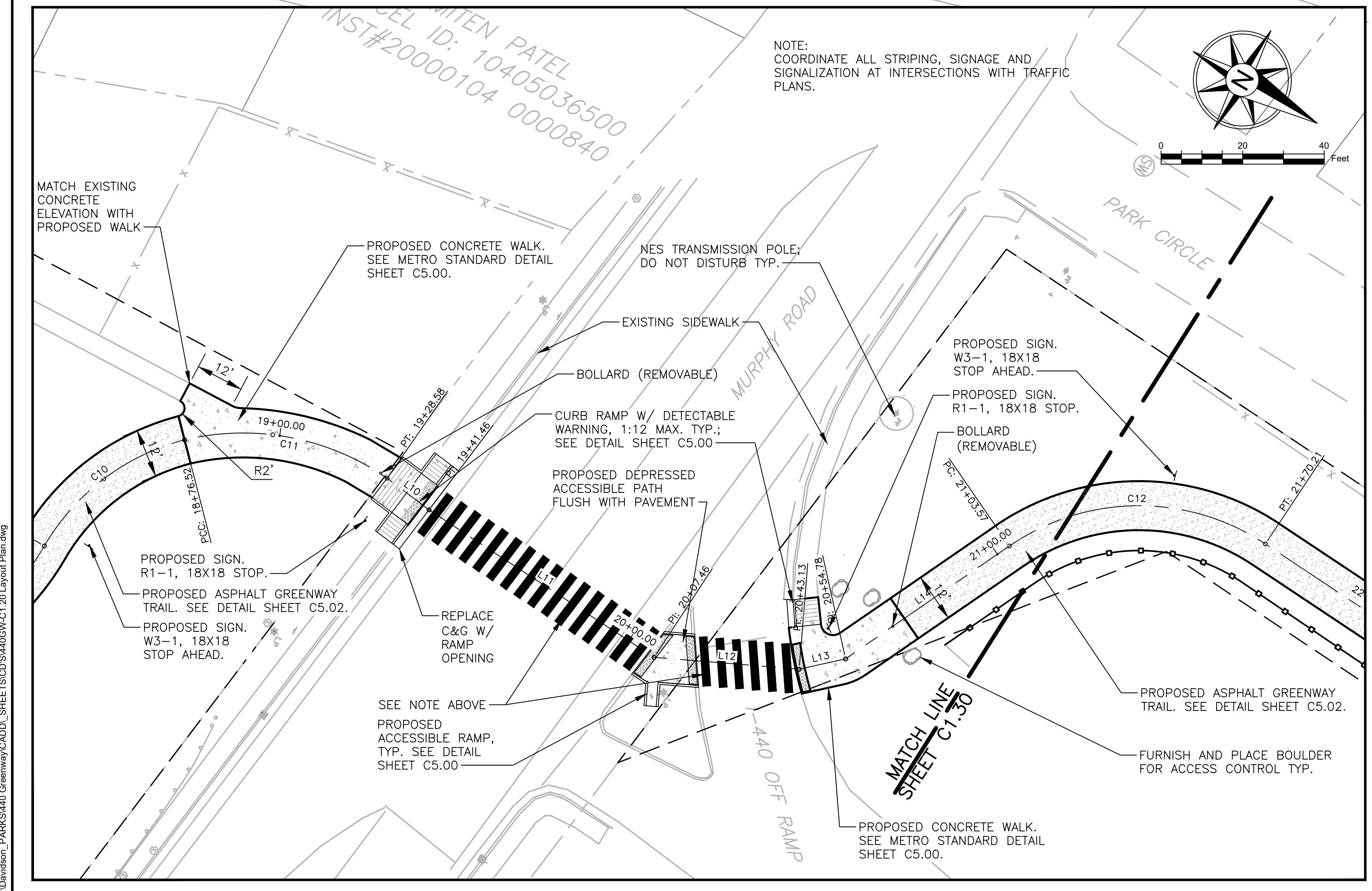
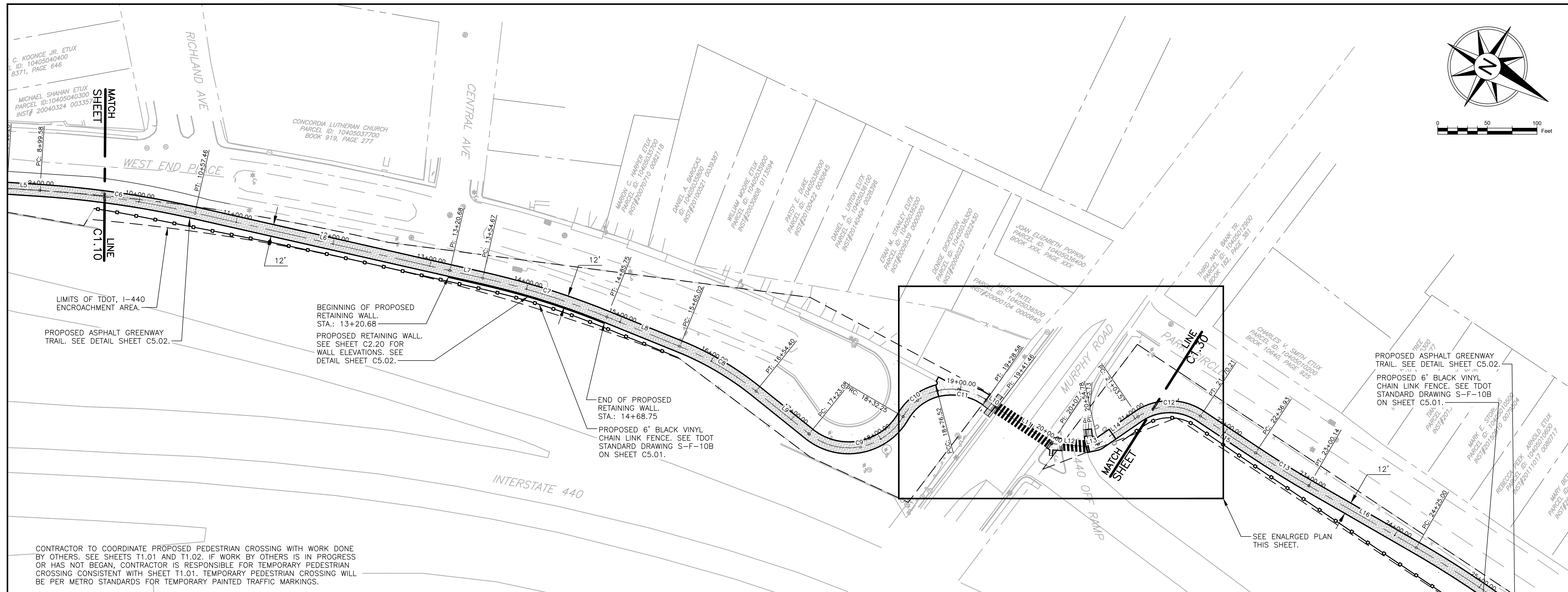


DATE: 05/04/2016
DESIGNED BY: MLD
SUPERVISED BY: JDC
CHECKED BY: CAC

LAYOUT PLAN

SHEET NO: C1.10

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SHEET C1.20 QUANTITIES

ITEM NUMBER	ITEM NAME	UNIT	QUANTITY
701-01.01	CONC. SIDEWALK (4")	SF	1153
701-02.01	CONCRETE CURB RAMP	SF	225
702-01	CONC. POST CURB	LF	56
702-03	CONC C&G	LF	35
707-01.02	END AND CORNER POST ASSEMBLY	EACH	2
SP-3	BOLLARD (REMOVABLE)	EACH	2
RS-11	CHAIN LINK FENCE	SF	3660
	FURNISH AND PLACE BOULDER	EACH	3
	DETECTABLE WARNING	SF	95
	SIGN ASSEMBLY (TRAIL STOP AHEAD)	EACH	2
	SIGN ASSEMBLY (TRAIL STOP)	EACH	2

912 LF ASPHALT TRAIL

303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	414
404-01.01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	215
404-01.02	MINERAL AGGREGATE FOR COVER MATERIAL (PC)	TON	8
411-01.11	ACS MIX (PG64-22) GRADING E ROADWAY	TON	141

Line Table: Alignments			Line Table: Alignments			Curve Table: Alignments			Curve Table: Alignments		
Line #	Length	Direction	Line #	Length	Direction	Curve #	Radius	Length	Curve #	Radius	Length
L1	55.519	N02° 41' 42.84"E	L21	22.826	N01° 44' 08.21"W	C1	1919.123	587.177	C21	100.000	39.000
L2	11.923	N26° 14' 15.16"W	L22	159.079	N20° 36' 34.76"E	C2	2319.213	10.126	C22	50.000	7.324
L3	72.416	N26° 14' 15.16"W	L23	98.012	N12° 13' 02.45"E	C3	106.000	53.527	C23	100.000	22.269
L4	11.719	N08° 59' 45.91"W	L24	39.639	N00° 32' 30.39"W	C4	106.000	31.898	C24	50.000	19.295
L5	33.375	N26° 14' 15.16"W	L25	3.078	N22° 39' 08.25"W	C5	106.000	31.898	C25	50.000	23.309
L6	263.222	N17° 14' 43.90"W	L27	31.168	N10° 58' 09.55"E	C6	1006.000	157.882	C26	156.000	18.819
L7	33.985	N17° 14' 43.90"W	L28	30.419	N02° 27' 25.90"W	C7	806.000	131.085	C27	156.000	36.557
L8	79.271	N07° 55' 37.60"W	L30	39.305	N04° 18' 20.78"E	C8	306.000	89.379	C28	156.000	18.414
L9	68.675	N08° 48' 30.03"E	L31	122.679	N00° 13' 46.35"E	C9	63.466	109.171	C29	494.000	35.145
L10	12.882	N07° 07' 41.24"E	L32	23.368	N00° 13' 46.35"E	C10	56.000	44.269	C30	106.000	82.716
L11	65.998	N03° 13' 01.31"E	L33	214.853	N44° 56' 23.47"E	C11	61.943	52.064	C31	106.000	27.751
L12	35.668	N25° 20' 41.55"W	L34	16.454	N29° 56' 23.47"E	C12	56.000	66.640	C32	96.937	50.756
L13	11.657	N42° 27' 20.11"W	L35	62.014	N59° 56' 23.47"E	C13	1000.000	63.207	C33	75.000	50.251
L14	48.789	N64° 33' 36.55"W	L36	28.783	S81° 40' 17.37"E	C14	1006.000	377.441	C34	50.000	25.781
L15	66.716	N03° 37' 15.32"E	L37	180.234	S30° 10' 13.15"E	C15	1994.000	139.869	C35	25.000	35.362
L16	124.863	N00° 00' 00.00"E	L38	27.135	S30° 10' 13.15"E	C16	2006.000	103.922			
L17	87.964	N21° 29' 48.42"E	L39	76.900	N59° 18' 58.44"E	C17	106.000	36.478			
L18	58.559	N17° 28' 39.98"E				C18	106.000	34.936			
L19	65.815	N19° 36' 45.74"E				C19	106.000	20.321			
L20	65.187	N30° 35' 47.95"E				C20	71.000	40.066			

COLLIER ENGINEERING CO., INC.
CONSULTING DESIGN & CONSTRUCTION

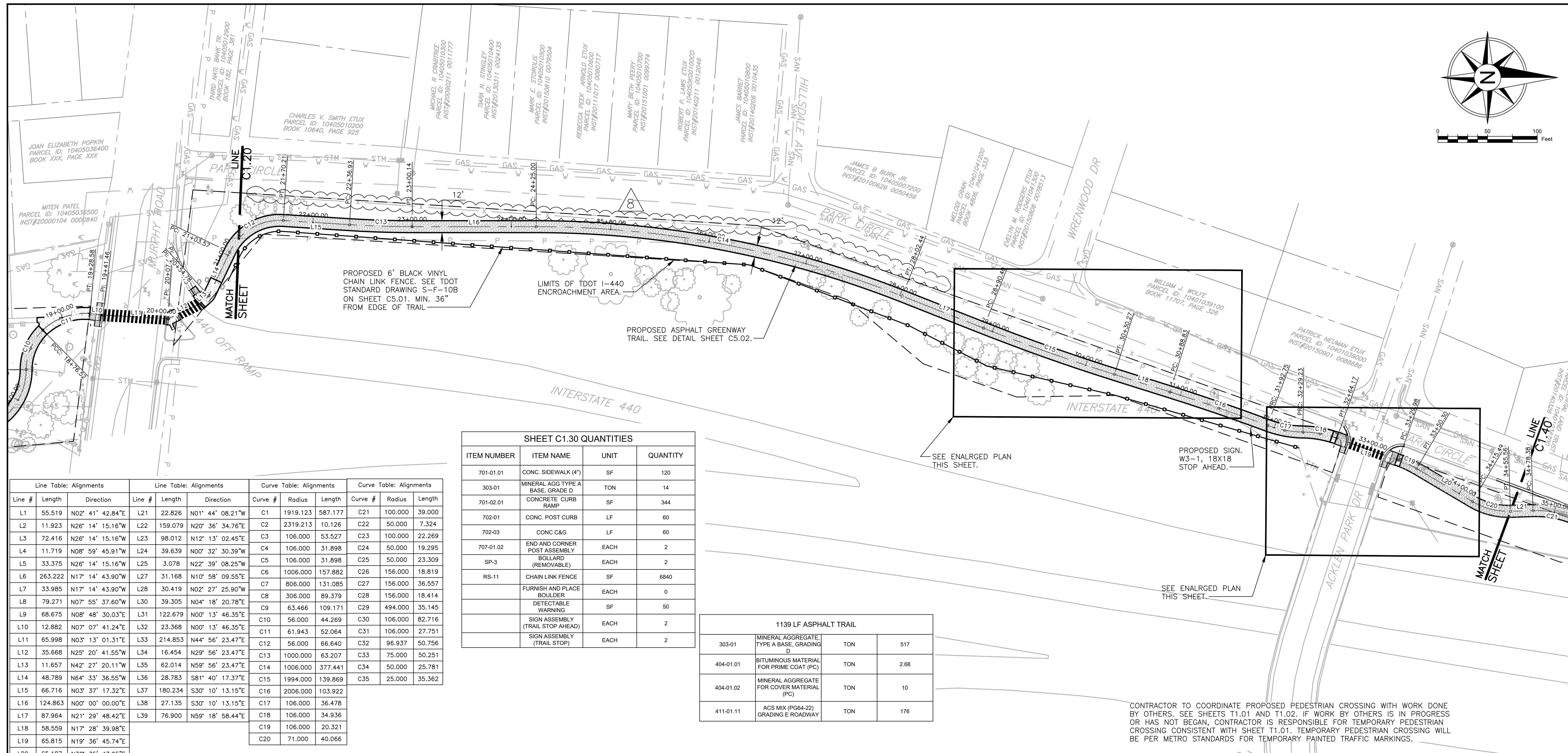
5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
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CONSTRUCTION DOCUMENTS
440 GREENWAY - PHASE I
DEPARTMENT OF PARKS AND RECREATION
METRO DAVIDSON COUNTY, TENNESSEE

DATE: 05/04/2016
DESIGNED BY: MLD
SUPERVISED BY: JDC
CHECKED BY: CAC

LAYOUT PLAN

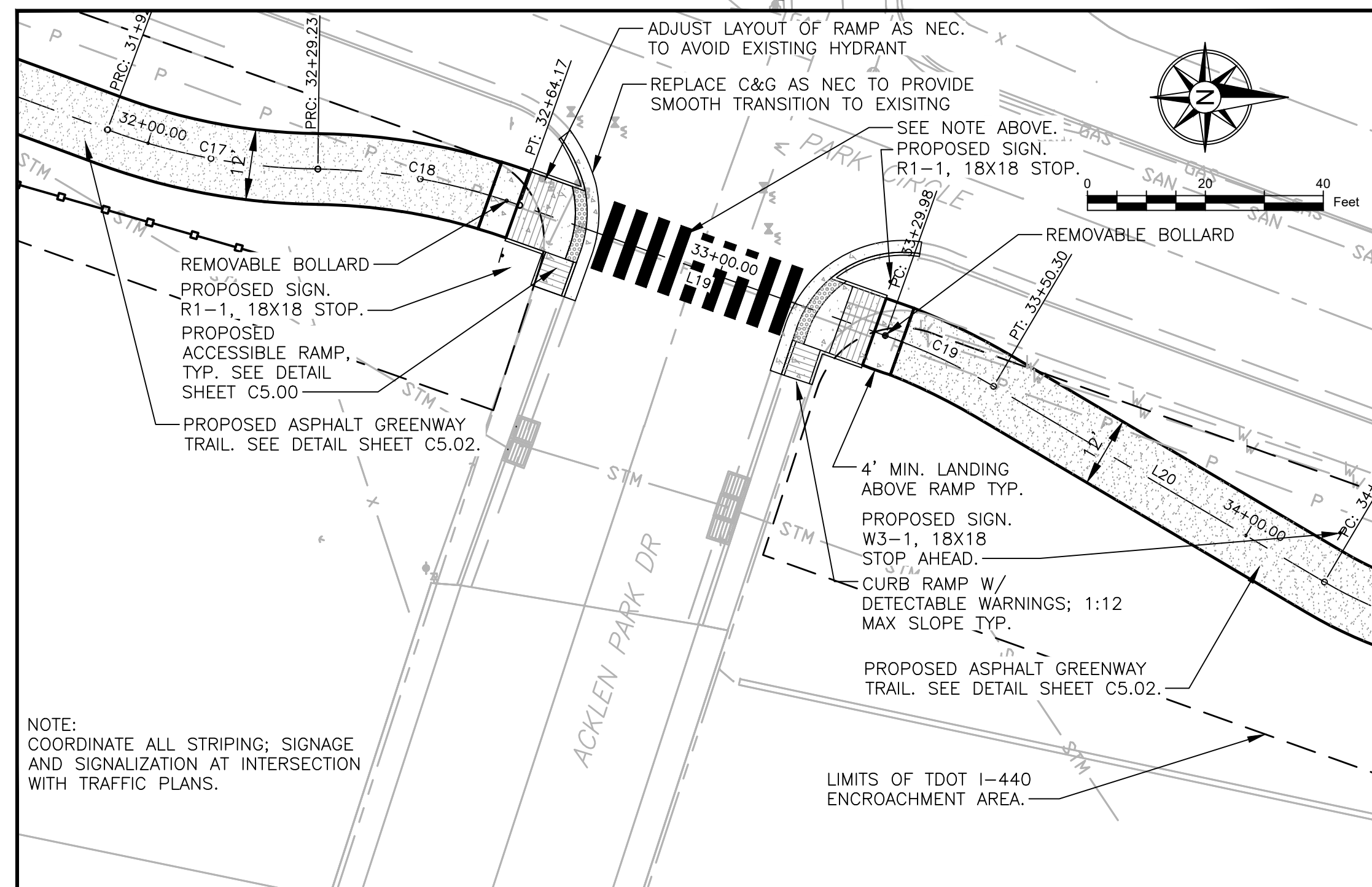
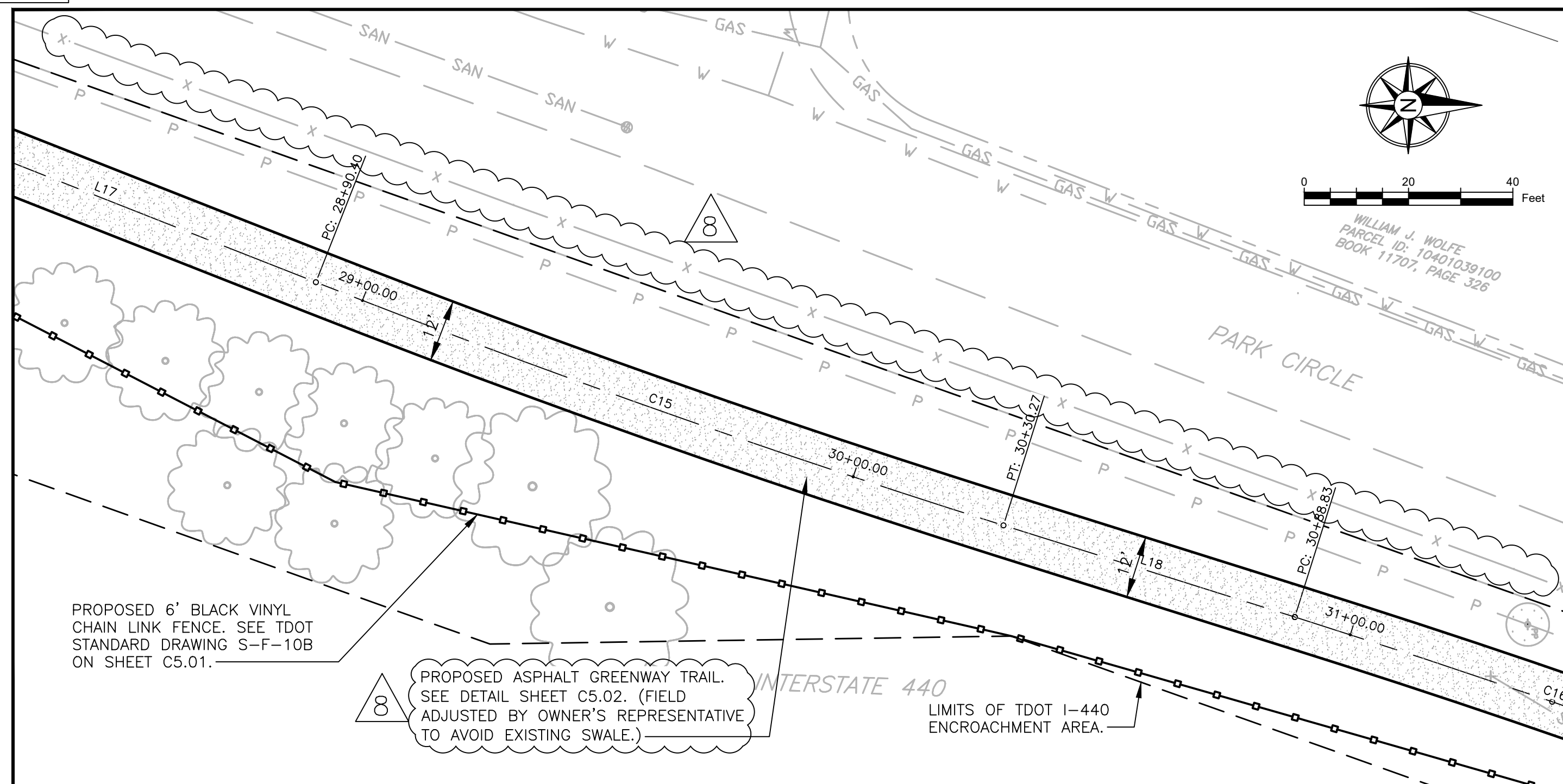
SHEET NO: C1.20



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Line #	Length	Direction	Line #	Length	Direction	Curve #	Radius	Length	Curve #	Radius	Length
L1	55.519	N02° 41' 42.84"E	L21	22.826	N01° 44' 08.21"W	C1	1919.123	587.177	C21	100.000	39.000
L2	11.923	N26° 14' 15.16"W	L22	159.079	N20° 36' 34.76"E	C2	2319.213	10.126	C22	50.000	7.324
L3	72.416	N26° 14' 15.16"W	L23	98.012	N12° 13' 02.45"E	C3	106.000	53.527	C23	100.000	22.269
L4	11.719	N08° 59' 45.91"W	L24	39.639	N00° 32' 30.39"W	C4	106.000	31.898	C24	50.000	19.295
L5	33.375	N26° 14' 15.16"W	L25	3.078	N22° 39' 08.25"W	C5	106.000	31.898	C25	50.000	23.309
L6	263.222	N17° 14' 43.90"W	L27	31.168	N10° 58' 09.55"E	C6	1006.000	157.882	C26	156.000	18.819
L7	33.985	N17° 14' 43.90"W	L28	30.419	N02° 27' 25.90"W	C7	806.000	131.085	C27	156.000	36.557
L8	79.271	N07° 55' 37.60"W	L30	39.305	N04° 18' 20.78"E	C8	306.000	89.379	C28	156.000	18.414
L9	68.675	N08° 48' 30.03"E	L31	122.679	N00° 13' 46.35"E	C9	63.466	109.171	C29	494.000	35.145
L10	12.882	N07° 07' 41.24"E	L32	23.368	N00° 13' 46.35"E	C10	56.000	44.269	C30	106.000	82.716
L11	65.998	N03° 13' 01.31"E	L33	214.853	N44° 56' 23.47"E	C11	61.943	52.064	C31	106.000	27.751
L12	35.668	N25° 20' 41.55"W	L34	16.454	N29° 56' 23.47"E	C12	56.000	66.640	C32	96.937	50.756
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L20	65.187	N30° 35' 47.95"E				C20	71.000	40.066			

ITEM NUMBER	ITEM NAME	UNIT	QUANTITY
701-01.01	CONC. SIDEWALK (4")	SF	120
303-01	MINERAL AGG TYPE A BASE, GRADE D	TON	14
701-02.01	CONCRETE CURB RAMP	SF	344
702-01	CONC. POST CURB	LF	60
702-03	CONC C&G	LF	60
707-01.02	END AND CORNER POST ASSEMBLY	EACH	2
SP-3	BOLLARD (REMOVABLE)	EACH	2
RS-11	CHAIN LINK FENCE	SF	6840
	FURNISH AND PLACE BOULDER	EACH	0
	DETECTABLE WARNING	SF	50
	SIGN ASSEMBLY (TRAIL STOP AHEAD)	EACH	2
	SIGN ASSEMBLY (TRAIL STOP)	EACH	2

ITEM NUMBER	ITEM NAME	UNIT	QUANTITY
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADE D	TON	517
404-01.01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	2.68
404-01.02	MINERAL AGGREGATE FOR COVER MATERIAL (PC)	TON	10
411-01.11	ACS MIX (PG64-22) GRADING ROADWAY	TON	176

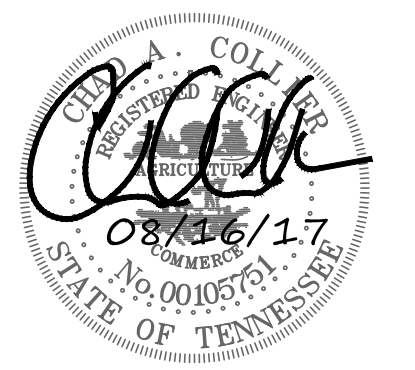


NO	DATE	BY	DESCRIPTION
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7	07/13/17	NAC	ADDED SHEET C2.51
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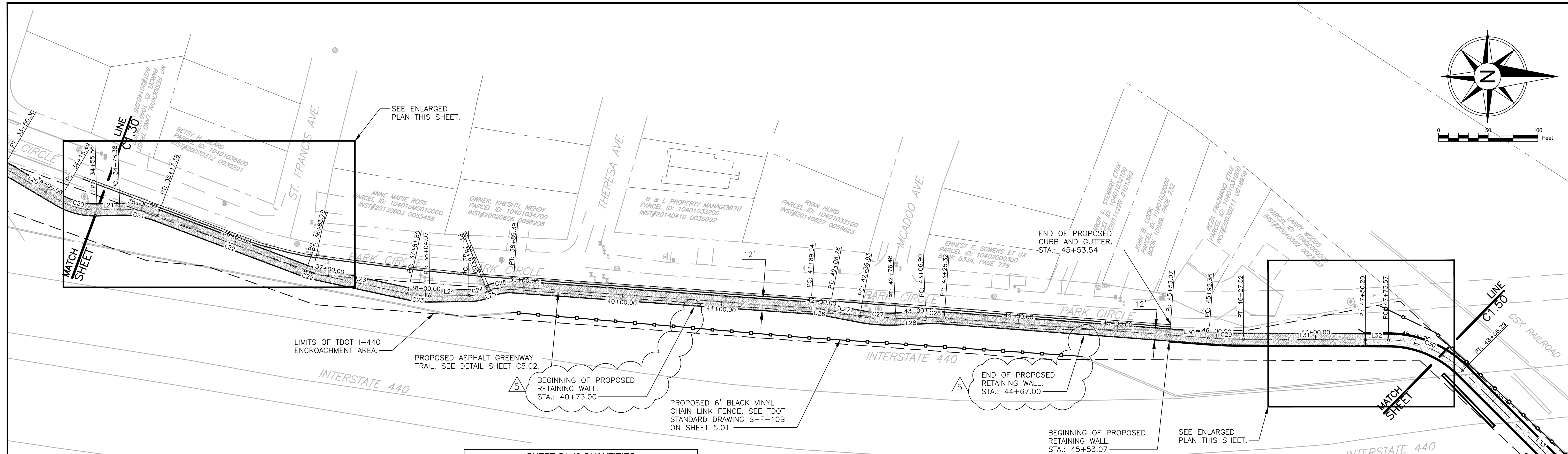
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LAYOUT PLAN
SHEET NO: C1.30



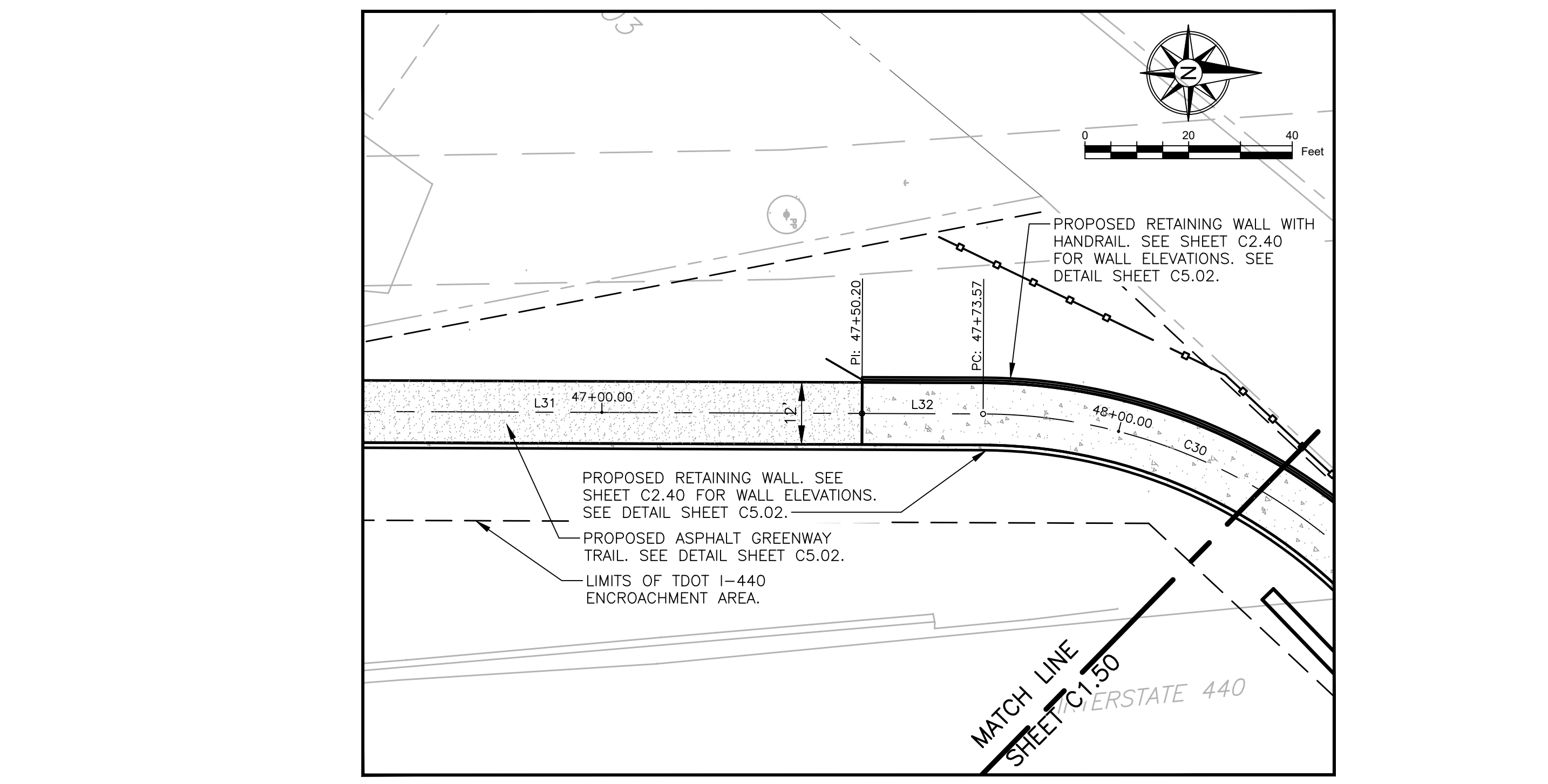
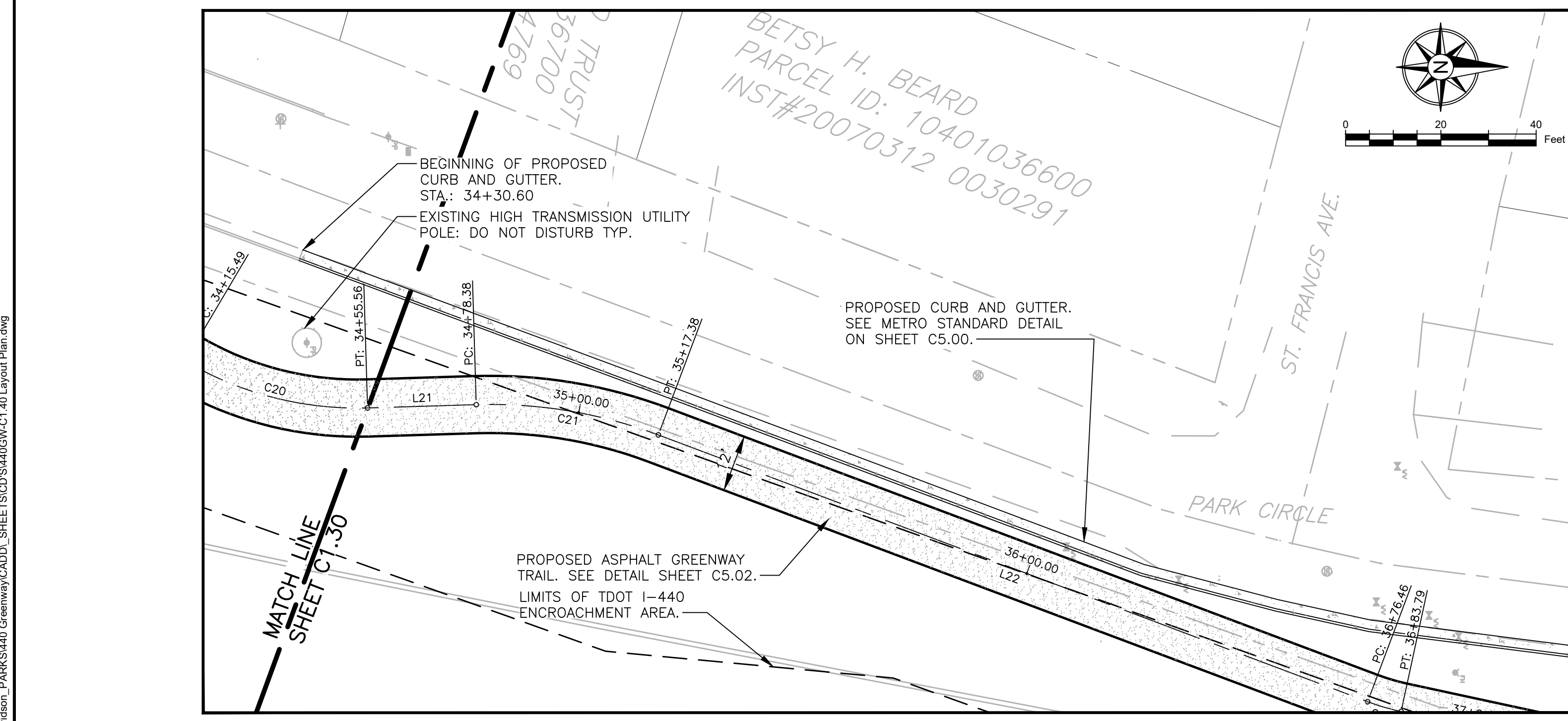
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L11	65.998	N03° 13' 01.31"E	L33	214.853	N44° 56' 23.47"E	C11	61.943	52.064	C31	106.000	27.751
L12	35.668	N25° 20' 41.55"W	L34	16.454	N29° 56' 23.47"E	C12	56.000	66.640	C32	96.937	50.756
L13	11.657	N42° 27' 20.11"W	L35	62.014	N59° 56' 23.47"E	C13	1000.000	63.207	C33	75.000	50.251
L14	48.789	N64° 33' 36.55"W	L36	28.783	S81° 40' 17.37"E	C14	1006.000	377.441	C34	50.000	25.781
L15	66.716	N03° 37' 17.32"E	L37	180.234	S30° 10' 13.15"E	C15	1994.000	139.869	C35	25.000	35.362
L16	124.863	N00° 00' 00.00"E	L38	27.135	S30° 10' 13.15"E	C16	2006.000	103.922			
L17	87.964	N21° 29' 48.42"E	L39	76.900	N59° 18' 58.44"E	C17	106.000	36.478			
L18	58.559	N17° 28' 39.98"E				C18	106.000	34.936			
L19	65.815	N19° 36' 45.74"E				C19	106.000	20.321			
L20	65.187	N30° 35' 47.95"E				C20	71.000	40.066			

SHEET C1.40 QUANTITIES

ITEM NUMBER	ITEM NAME	UNIT	QUANTITY
604-01.04	1 1/2" STL PIPE RAIL	LF	93
702-03	CONC C&G	LF	1112
203-01	EXCAVATION (UNCLASSIFIED)	CY	103
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	90
707-01.02	END AND CORNER POST ASSEMBLY	EACH	2
709-05.06	MACHINED RIP RAP (CLASS A-1)	TON	2
203-01	EXCAVATION (UNCLASSIFIED)	CY	2
	FILTER FABRIC	SF	24
RS-11	CHAIN LINK FENCE	SF	3462

1418 LF ASPHALT TRAIL			
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	643
404-01.01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	3.34
404-01.02	MINERAL AGGREGATE FOR COVER MATERIAL (PC)	TON	13
411-01.11	ACS MIX (PG64-22) GRADING E ROADWAY	TON	220

955 SF CONCRETE TRAIL (6")			
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	31
604-01.01	CLASS A CONCRETE	TON	18
604-01.02	STEEL REINFORCEMENT WWF	LB	277



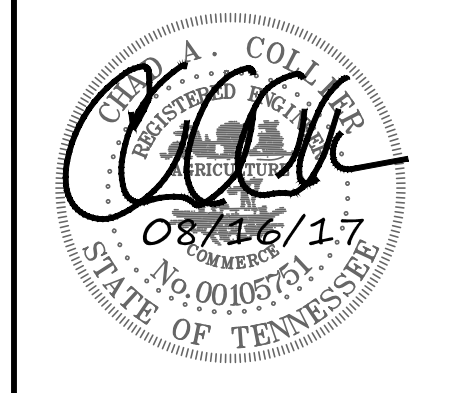
REVISIONS

NO	DATE	BY	DESCRIPTION
1	10/06/16	NAC	MWS TECHNICAL COMMENTS
2	01/09/17	MJP	OWNER COMMENTS
3	03/15/17	NAC	ADA COMMENTS
4	03/22/17	NAC	ADAWMNER COMMENTS
5	05/31/17	MJP	CONSTRUCTION DIRECTIVE #1
6	06/21/17	NAC	CONSTRUCTION DIRECTIVE #2
7	07/13/17	NAC	ADDED SHEET C2.51
8	08/16/17	NAC	C0.23, C1.30, C1.50, C2.30, C2.50

COLLIER ENGINEERING CO., INC.
CONSULTING DESIGN & CONSTRUCTION

5560 FRANKLIN PIKE CIRCLE, BRENTWOOD, TN 37027
PHONE: (615) 331-1441 FAX: (615) 331-1050

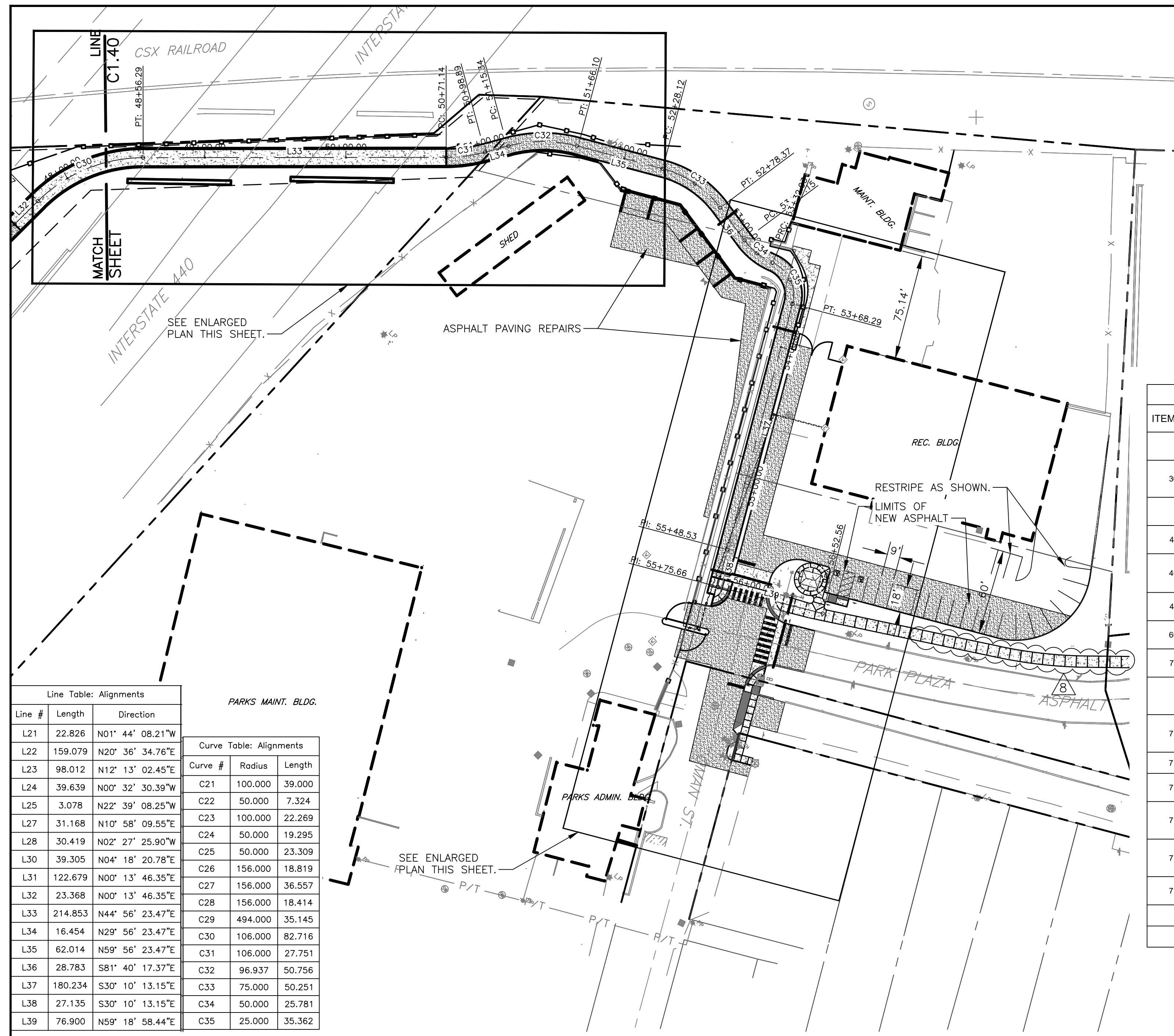
CONSTRUCTION DOCUMENTS
440 GREENWAY - PHASE I
DEPARTMENT OF PARKS AND RECREATION
METRO DAVIDSON COUNTY, TENNESSEE



DATE: 05/04/2016
DESIGNED BY: MLD
SUPERVISED BY: JDC
CHECKED BY: CAC

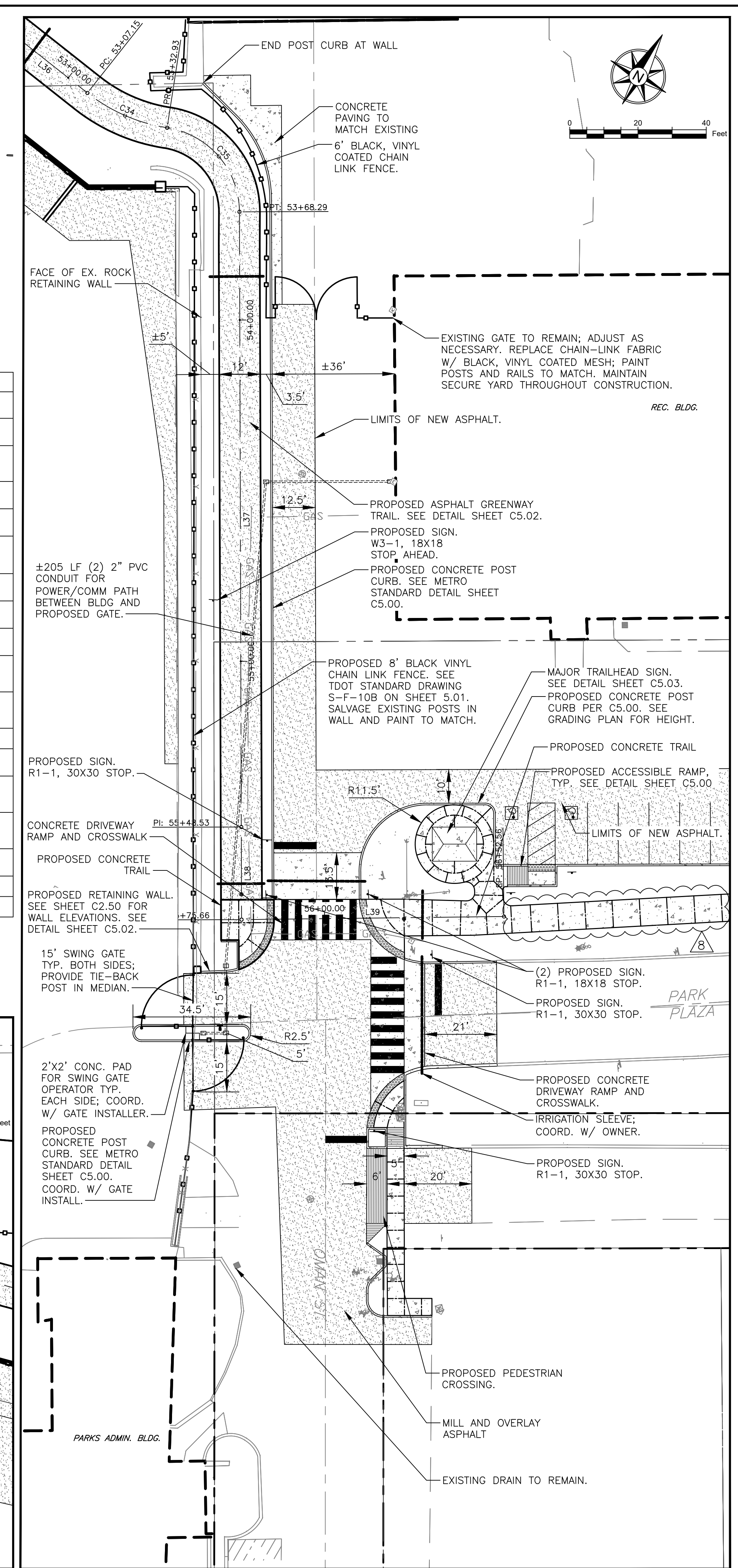
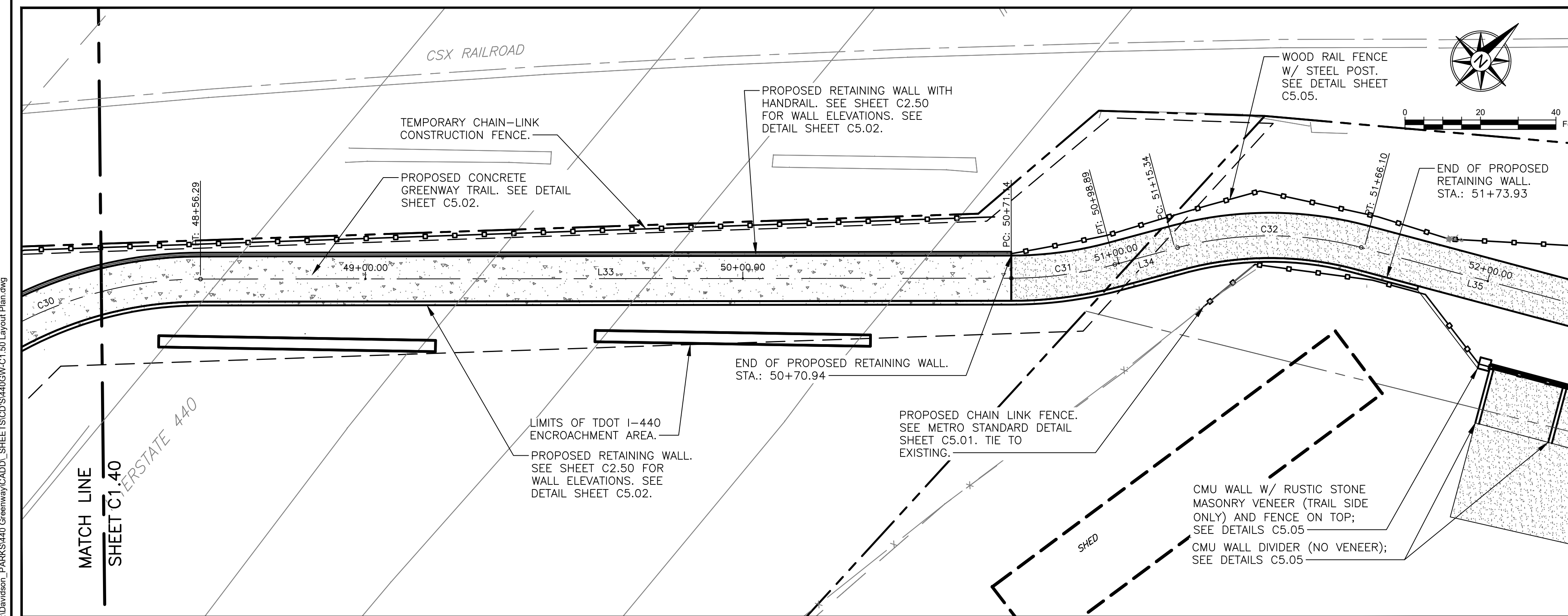
LAYOUT PLAN

SHEET NO: C1.40



SHEET C1.50 QUANTITIES

ITEM NUMBER	ITEM NAME	UNIT	QUANTITY
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	1056
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	211
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	0.4
404-01.01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	3.8
404-01.02	MINERAL AGGREGATE FOR COVER MATERIAL (PC)	TON	15
411-01.11	ACS MIX (PG64-22) GRADING E ROADWAY	TON	219
604-01.04	1" STEEL PIPE HANDRAIL (PER ADA REQUIREMENTS)	L.F.	241
701-01.01	CONCRETE SIDEWALK (4")	S.F.	1086
702-01	CONCRETE POST CURB (ST-201)	L.F.	860
710-10.02	6" PERFORATED PLASTIC PIPE (TO INCLUDE FILTER CLOTH)	L.F.	583
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	40
716-02.13	PLASTIC PAVEMENT MARKING (CROSSWALK)	L.F.	69
716-04.10	PLASTIC PAVEMENT MARKING (HANDICAP SYMBOL)	EACH	2
716-05.04	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	16
716-05.08	PAINTED PAVEMENT MARKING (PARKING LINE)	L.F.	405
RS-11	CHAIN LINK FENCE (6" BLACK VINYL)	L.F.	482
SP-6	MAJOR TRAILHEAD SIGN KIOSK	EACH	1



REVISIONS

NO.	DATE	BY	DESCRIPTION
1	10/06/16	NAC	MWS TECHNICAL COMMENTS
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7	07/13/17	NAC	ADDED SHEET C2.51
8	08/16/17	NAC	C0.23, C1.30, C1.50, C2.30, C2.50

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LAYOUT PLAN
SHEET NO: C1.50

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