

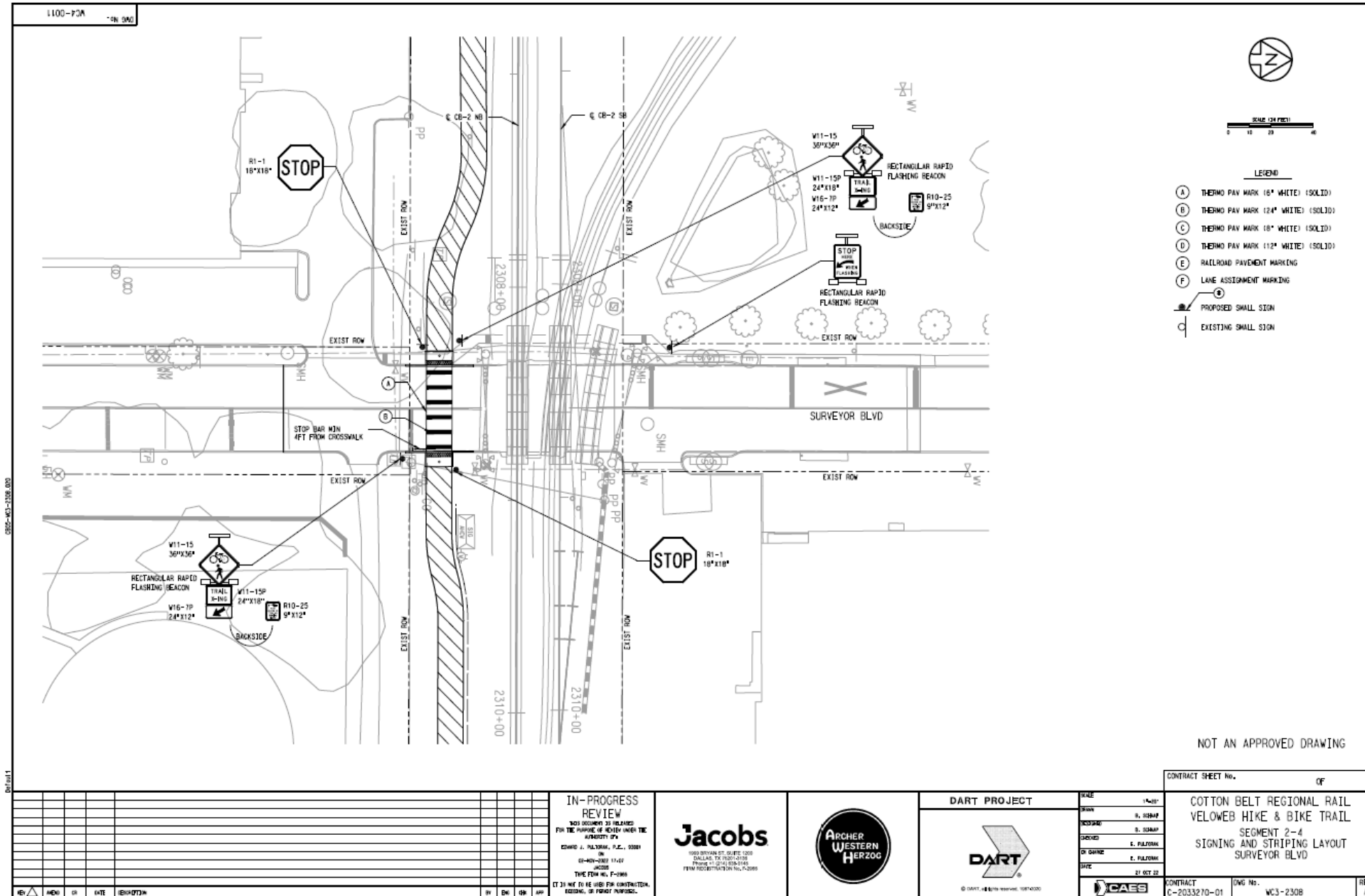
B – Project Details

Trail Crossings of Roadways and Intersections (60% Design)

Plan Sheets reflecting various improvements

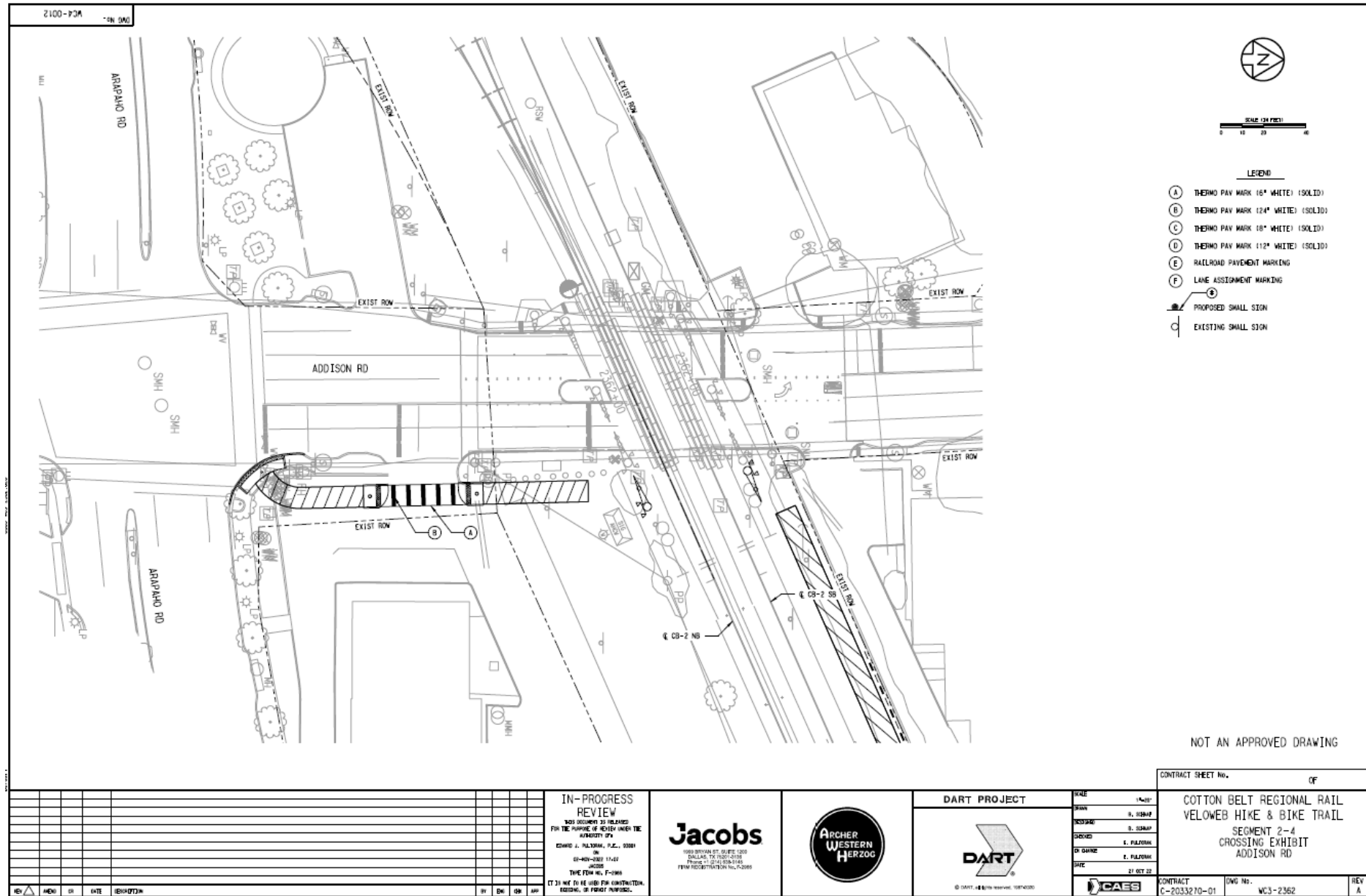
Location	Sheet Title	Drawing No.
Addison Rd.	Crossing Exhibit	WC3-2362
Quorum Dr.	Signage and Striping Layout	WC3-2374
Spectrum Dr.	Signage and Striping Layout	WC3-2382
Dallas North Tollway (DNT) Southbound Frontage Rd	Traffic Signal Layout	WC4-3010
Dallas North Tollway (DNT) Southbound Frontage Rd	Traffic Signal Summary	WC4-3011
Dallas North Tollway (DNT) Northbound Frontage Rd	Traffic Signal Layout	WC4-3012
Dallas North Tollway (DNT) Northbound Frontage Rd	Traffic Signal Summary	WC4-3014
Davenport West Rd.	Traffic Signal Layout	WC4-3098
Davenport West Rd.	Traffic Signal Summary	WC4-3099
Campbell Rd.	Traffic Signal Layout	WC4-3110
Campbell Rd.	Traffic Signal Summary	WC4-3111
McCallum Blvd.	Traffic Signal Layout	WC4-3170
McCallum Blvd.	Traffic Signal Summary	WC4-3171
Meandering Way	Signage and Striping Layout	WC3- 3180
Red Moon Way	Signage and Striping Layout	WC3-3417
West City Line Dr.	Signage and Striping Layout	WC3-3246
Pres. George Bush Turnpike (PGBT) Westbound Frontage Rd	Traffic Signal Layout	WC4-3438
Pres. George Bush Turnpike (PGBT) Westbound Frontage Rd	Traffic Signal Summary	WC4-3439

Intersection – Surveyor Blvd. (60% Design) Sheet WC3-2308



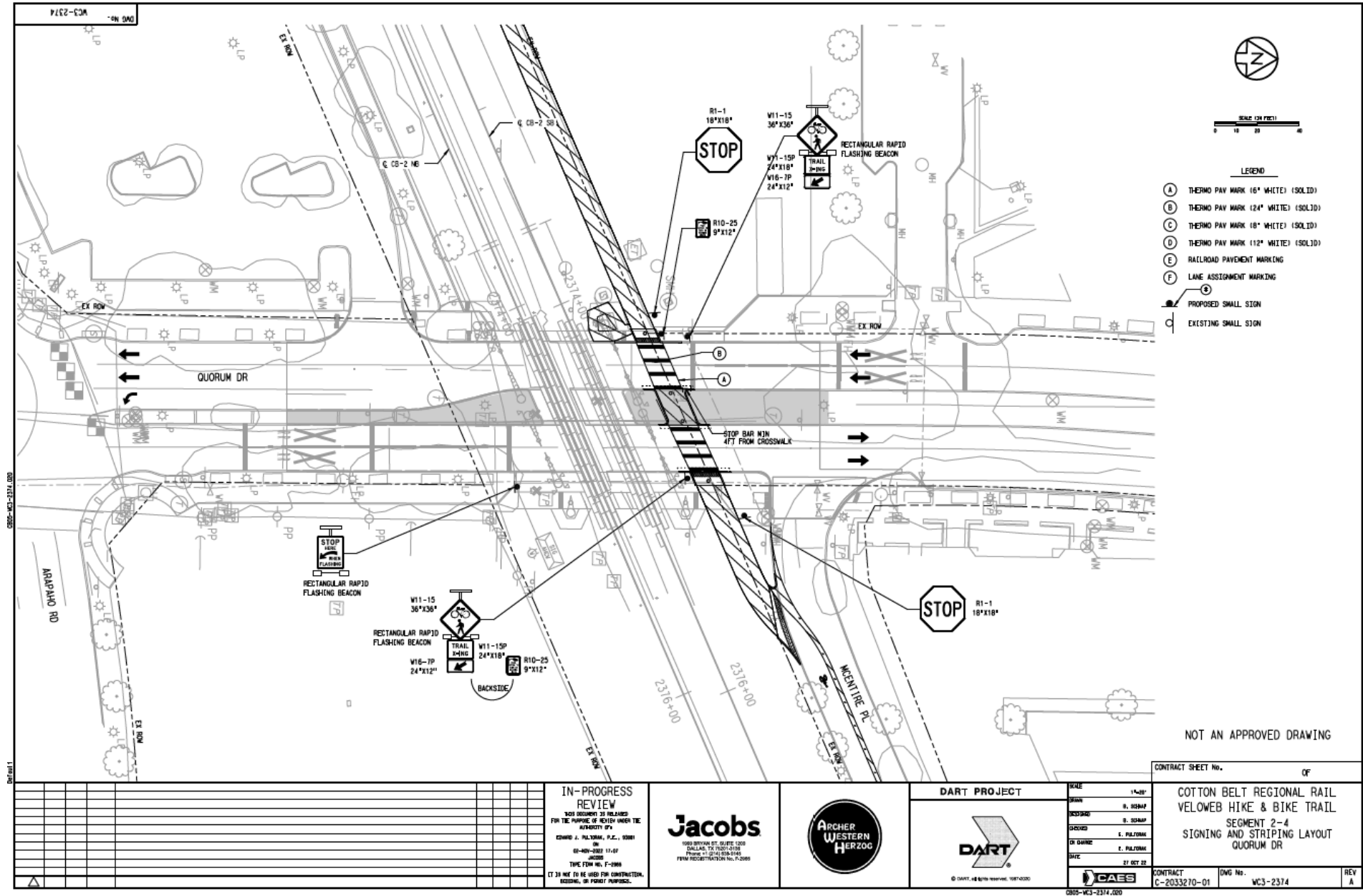
COTTON BELT / SILVER LINE RAIL TRAIL CRITICAL SECTIONS

Crossing – Addison Rd. (60% Design) Sheet WC3-2362



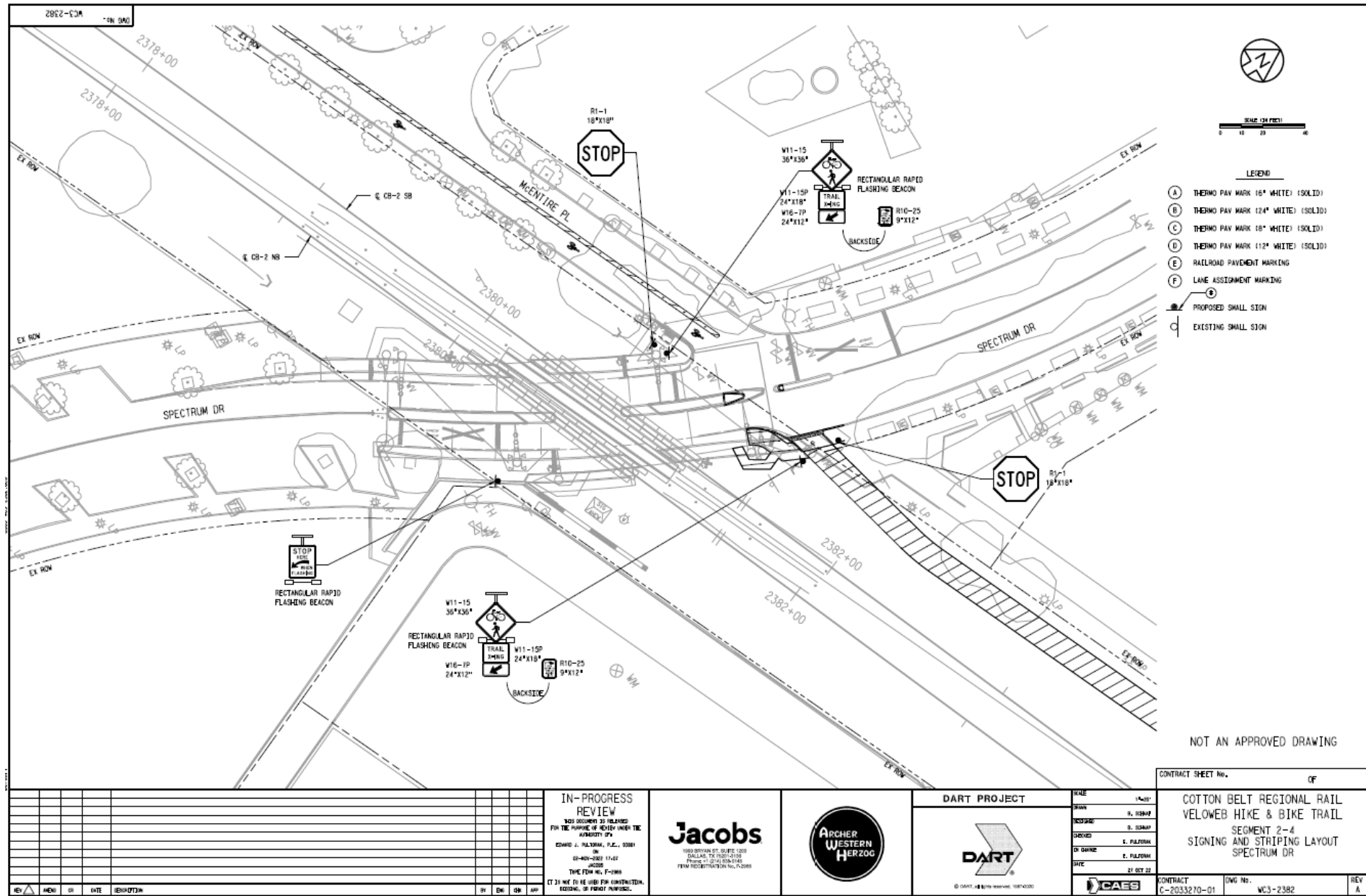
COTTON BELT / SILVER LINE RAIL CRITICAL SECTIONS

Intersection – Quorum Dr. (60% Design) Sheet WC3 - 2374



COTTON BELT / SILVER LINE RAIL TRAIL CRITICAL SECTIONS

Intersection – Spectrum Dr. (60% Design) Sheet WC-2382



Intersection – DNT/SBFR (60% Design) Sheet WC4-3010



COTTON BELT / SILVER LINE RAIL TRAIL CRITICAL SECTIONS

DNT/SBFR (60% Design) – Traffic Signal Summary Sheet WC4-3011

1000-PJM

08/20/2022

POLE NO.	A	B	C	D	E	F	G	NO. HEADS		JL/SN	LUM	PED	FOUNDATION	
								N.A.	POLE				TYPE	DEPTH
P1	1	14	10	12		30	30	3	1		1	1	24-A	15
P2	3						10						24-A	6
P3	6						30		1		1	1	24-A	6

TRAFFIC SIGNAL

ELECTRIC SERVICE DESCRIPTION	SERVICE CONDUIT NO./SIZE	SERVICE CONDUCTORS NO./SIZE	SAFETY SWITCH AMPS	MAIN DISCONNECT KVT./BRK. POLE/AMPS	TWO-POLE CONTRACTOR AMPS	PANEL BO./ LOAD CENTER AMP RATING (KVA)	CIRCUIT NO.	BRANCH KVT./BRK. POLE/AMPS	BRANCH KVT./BRK. POLE/AMPS	KVA LOAD
TYPE D (120V/240) OUTGOING SERVICE (V)	2"	3 / #4	N/A	25/10	30	100	T.S. LIGHTING	1P/50	23	<1.1

RUN NO.	LENGTH OF RUN (LFT)	CONDUIT TYPE			WIRE				SIGNAL CABLE	
		TRENCH SCH 40 PVC	BORED SCH 40 PVC	STEEL ENCASED 3"	NO. 6 BARE	NO. 6 INSULATED	NO. 8 BARE	NO. 8 INSULATED	10 CNDR	12 CNDR
1	15	1			1	2		2	4	2
2	15	1			1				1	
3	30	1			1			2	1	1
4	10	1			1			1	1	
5	50		1		1			1	1	
6	30	1			1			1	1	
7	50			2	1			2	1	
8	10	1			1			2	1	
TOTAL (LFT)	110	50	180	250	60	205	250	280	120	

CNR NO.	CONDUCTOR COLOR	CABLE TERMINATION CHART		
		CABLE 1 FROM P1 TO CNTR TO CNDR	CABLE 2 FROM P2 TO CNTR TO CNDR	CABLE 3 FROM P3 TO CNTR TO CNDR
1	BLACK	SPARE	SPARE	SPARE
2	WHITE	SEC COMM	SEC COMM	SEC COMM
3	RED	PH. 2 SH 1,2,3 RED BALL	PH. 2 SH 4 RED BALL	PH. 2 SH 5 RED BALL
4	GREEN	PH. 2 SH 1,2,3 GREEN BALL	PH. 2 SH 4 GREEN BALL	PH. 2 SH 5 GREEN BALL
5	ORANGE	PH. 2 SH 1,2,3 YELLOW BALL	PH. 2 SH 4 YELLOW BALL	PH. 2 SH 5 YELLOW BALL
6	BLUE	SPARE	SH W/LW	SH W/LW
7	WHITE/BLACK	SPARE	SH W/LW	SH W/LW
8	RED/BLACK	SPARE	SPARE	SPARE
9	GREEN/BLACK	SPARE	SPARE	SPARE
10	ORANGE/BLACK	SPARE	SPARE	SPARE

NOTES:

1. LOCATE ALL UTILITIES, DRAINAGE STRUCTURES AND OTHER CONFLICTS PRIOR TO TRENCHING. INSTALLING DRILLED SHAFTS OR PILES, IF NECESSARY, ADJUST LOCATIONS IN ACCORDANCE WITH TRAFFIC SIGNAL PLACEMENT GUIDELINES AND AS DIRECTED BY THE ENGINEER.

2. TRAFFIC SIGNAL POLES SHALL BE ASSEMBLED AND INSTALLED PER TDOT SMA-80-12 AND TS-PD-12 STANDARDS.

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CONTRACT SHEET No. OF

IN-PROGRESS REVIEW

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EDWARD J. WALSH, P.E., 2021

ON 08-20-2022 (08-20-2022)

THIS FOR NO. F-1000

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JACOBS

1000 BRYAN ST. SUITE 1200 DALLAS, TX 75201-2000 PHONE: (214) 424-0000 FAX: (214) 424-0001

ARCHER WESTERN HERZOG

DART PROJECT

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DATE	BY	REVISION
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08/20/22	0.3	REVISION
08/20/22	0.4	REVISION
08/20/22	0.5	REVISION
08/20/22	0.6	REVISION
08/20/22	0.7	REVISION
08/20/22	0.8	REVISION
08/20/22	0.9	REVISION
08/20/22	1.0	REVISION

CONTRACT

C-2033270-01

CONTRACT NO.

WC4-3011

REV

A

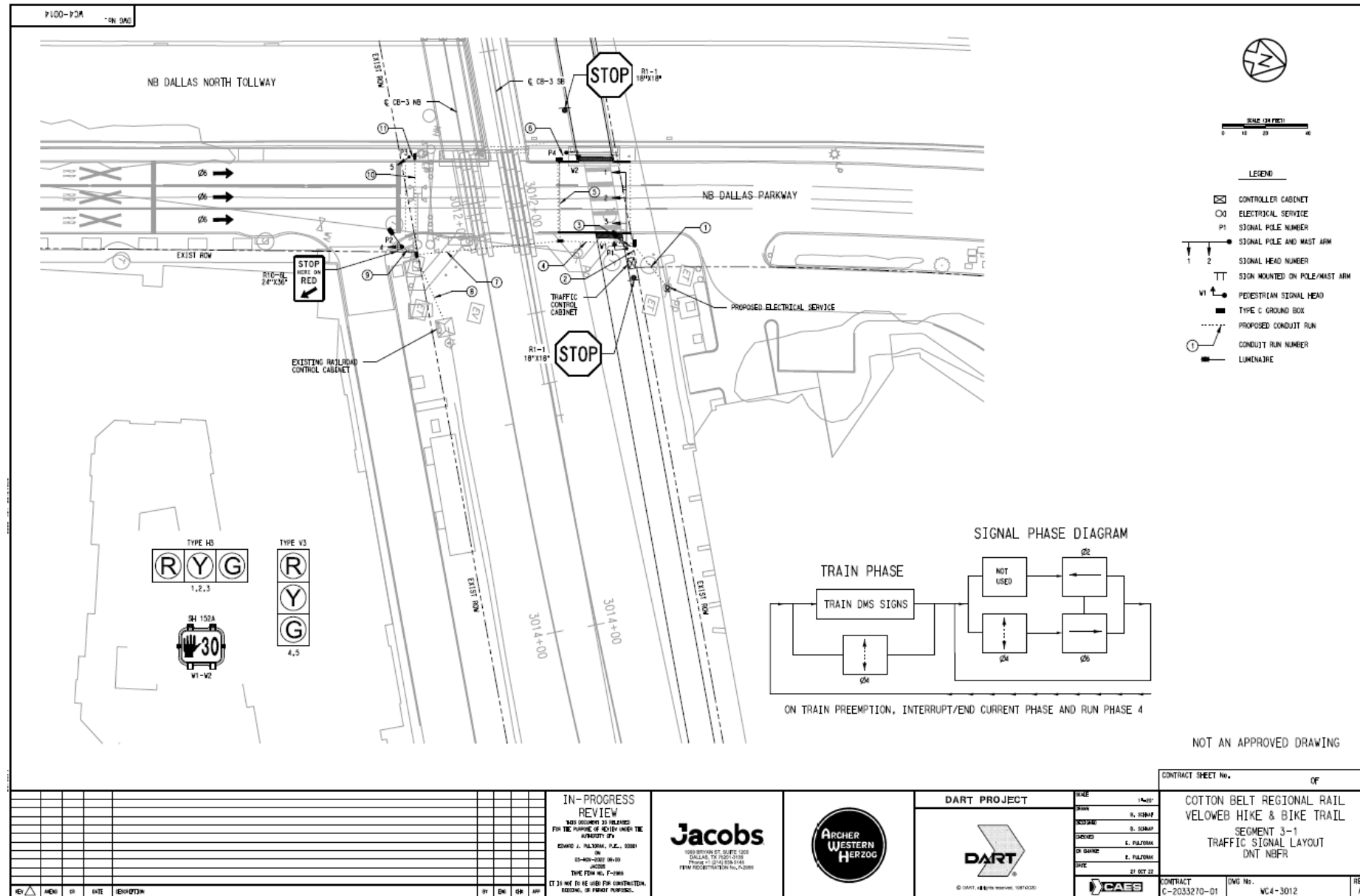
COTTON BELT REGIONAL RAIL VELOWEB HIKE & BIKE TRAIL

SEGMENT 3-1

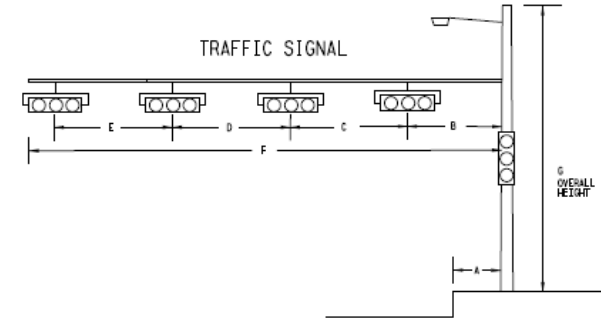
TRAFFIC SIGNAL SUMMARY

DNT SBFR

Intersection – DNT/NBFR (60% Design) Sheet WC4-3012



DNT/NBFR (60% Design) – Traffic Signal Summary Sheet W4-3014



SIGNAL POLES														
POLE NO.	A	B	C	D	E	F	G	NO. HEADS		JLN (EA)	LUM (EA)	PED (EA)	FOUNDATION	
								W.A.	POLE				TYPE	DEPTH
P1	7	12	12	12		36	30	3				1	24-A	13
P2	4						30	1			1		24-A	6
P3	3						10		1				24-A	6
P4	5						10				1		24-A	6

ELECTRIC SERVICE DATA										
ELECTRIC SERVICE DESCRIPTION	SERVICE CONDUIT NO./SIZE	SERVICE CONDUCTORS NO./SIZE	SAFETY SWITCH AMPS	MAIN DISCONNECT CKT,BRK POLE/AMPS	TWO-POLE CONTRACTOR AMPS	PANEL BS./ LOADCENTER AMP RATING (MNI)	CIRCUIT NO.	BRANCH CKT. BRK. POLE/AMPS	BRANCH CKT. BRK. POLE/AMPS	KVA LOAD
TYPE D (120/240) OTOINS(SSE/PS/U)	2"	3 / #4	N/A	29770	30	100	T.S.	1P/50	23	<7.1
							LIGHTING	1P/20	5	

CONDUIT RUNS											
RUN NO.	LENGTH OF RUN	CONDUIT TYPE			WIRES				SIGNAL CABLE		
		TRENCH SCH 40 PVC 3"	BORNE SCH 40 PVC 4"	STEEL ENCASED 3"	NO. 6 BARE QTY/RUN	NO. 6 INSULATED QTY/RUN	NO. 8 BARE QTY/RUN	NO. 8 INSULATED QTY/RUN	10 CMR 14 AWG QTY/RUN	2 CMR 12 AWG QTY/RUN	
1	25	1				2		2			
2	10	1							5	2	
3	5	1					1	2		1	
4	35	1					1	2	4	1	
5	40		1				1		1	1	
6	5						1			1	
7	20			2				2	3		
8	35	1								1	
9	10	1					1	2			
10	45		1							1	
11	5						1			1	
TOTAL (11)	130	85		140	285	70	190	290	345	105	

CABLE TERMINATION CHART					
CNDR NO.	CONDUCTOR COLOR	CABLE 1 FROM P1 TO CNTRL 10 CNDR	CABLE 2 FROM P2 TO CNTRL 10 CNDR	CABLE 3 FROM P3 TO CNTRL 10 CNDR	CABLE 4 FROM P4 TO CNTRL 10 CNDR
1	BLACK	SPARE	SPARE	SPARE	SPARE
2	WHITE	SGO COMM	SGO COMM	SGO COMM	SGO COMM
3	RED	PH, 6 SH 1,2,3 RED BALL	PH, 6 SH 4 RED BALL	PH, 6 SH 5 RED BALL	SPARE
4	GREEN	PH, 6 SH 1,2,3 GREEN BALL	PH, 6 SH 4 GREEN BALL	PH, 6 SH 5 GREEN BALL	SPARE
5	YELLOW	PH, 6 SH 1,2,3 YELLOW BALL	PH, 6 SH 4 YELLOW BALL	PH, 6 SH 5 YELLOW BALL	SPARE
6	BLUE	SH W1/W	SPARE	SPARE	SH W2/W
7	WHITE/BLACK	SH W1/W	SPARE	SPARE	SH W2/W
8	RED/BLACK	SPARE	SPARE	SPARE	SPARE
9	GREEN/BLACK	SPARE	SPARE	SPARE	SPARE
10	YELLOW/BLACK	SPARE	SPARE	SPARE	SPARE

NOTES:

1. LOCATE ALL UTILITIES, DRAINAGE STRUCTURES AND OTHER CONFLICTS PRIOR TO TRENCHING. INSTALLING DRILLER SHAPED POLES IF NECESSARY, ADJUST LOCATIONS IN ACCORDANCE WITH TxDOT'S POLE PLACEMENT GUIDELINES AND AS DIRECTED BY THE ENGINEER.
2. TRAFFIC SIGNAL POLES SHALL BE ASSEMBLED AND INSTALLED PER TxDOT SMA-80-12 AND TS-FD-12 STANDARDS.

NOT AN APPROVED DRAWING

CONTRACT SHEET No.	OF
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COTTON BELT REGIONAL RAIL
VELOWEB HIKE & BIKE TRAIL
SEGMENT 3-1
TRAFFIC SIGNAL SUMMARY
DNT NBR

CONTRACT	DWG No.	REV
C-2033270-01	WC4-3014	A

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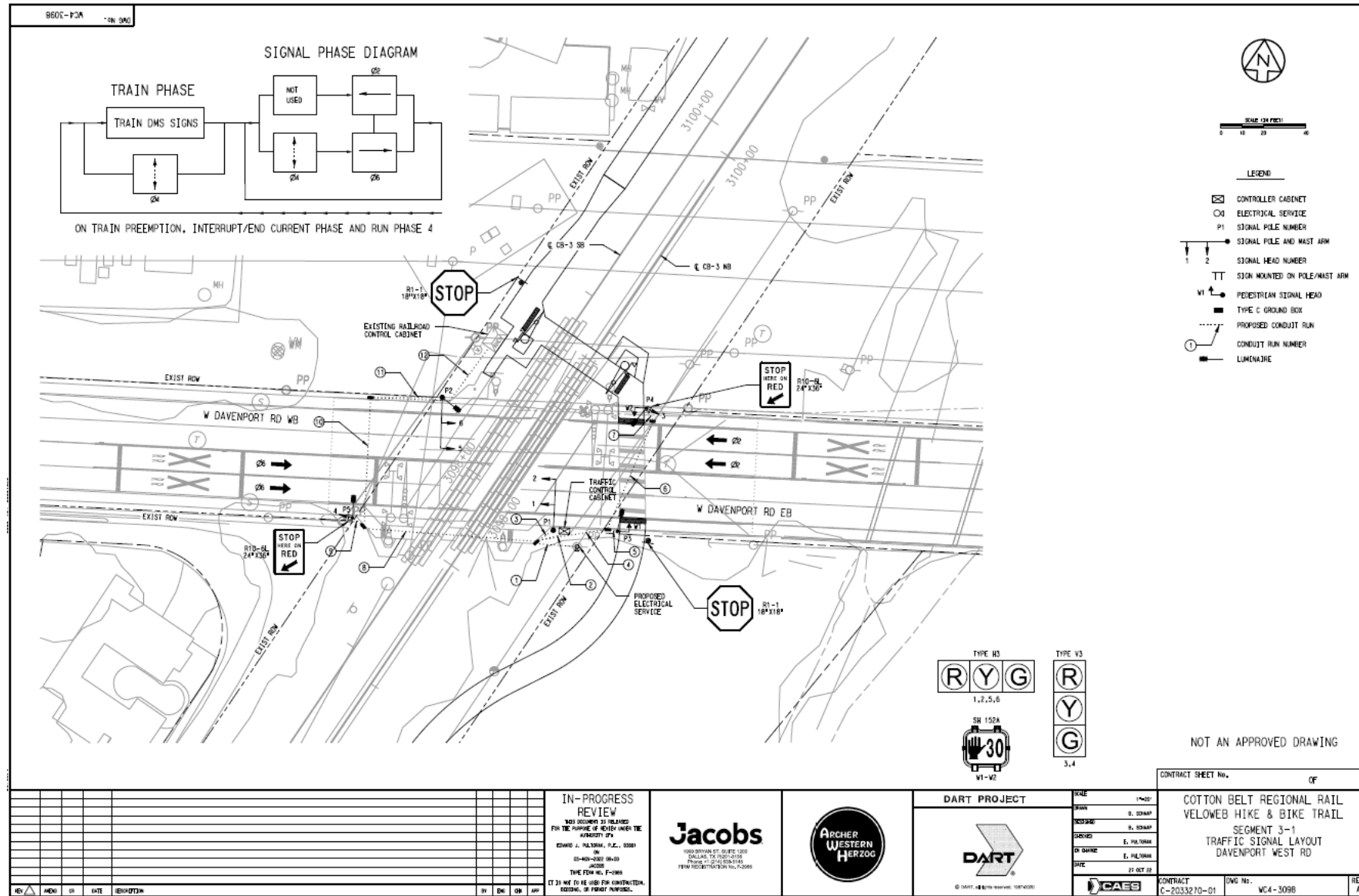
Country	1950	1960	1970	1980	1990	2000	2010	2020	2030	2040	2050
Japan	7	8	10	12	14	16	18	20	22	24	26
Italy	5	6	7	8	9	10	11	12	13	14	15
Germany	4	5	6	7	8	9	10	11	12	13	14
France	3	4	5	6	7	8	9	10	11	12	13
United States	2	3	4	5	6	7	8	9	10	11	12

SHOW	9. 30
END OF SHOW	9. 30
SHOWED	6. FILM
ON GAMING	6. FILM
DATE	27 OCT

OWG No.	104 304
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REV	
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Intersection – Davenport West Rd. (60% Design) Sheet WC4-3098



COTTON BELT / SILVER LINE RAIL TRAIL CRITICAL SECTIONS

Davenport West Dr. (60% Design) – Traffic Signal Summary Sheet WC4-3099

ELECTRIC SERVICE DATA											
ELECTRIC SERVICE DESCRIPTION	SERVICE CONDUIT NO./SIZE	SERVICE CONDUCTORS NO./SIZE	SAFETY SWITCH AMPS	W/IN DISCONNECT	TWO-POLE CONTRACTOR AMPS	PANEL BO./ LOADCENTER AMP RATING (W/IN)	CIRCUIT NO.	BRANCH CKT. BRK. POLE/AMPS	BRANCH CKT. BRK. POLE/AMPS	KVA LOAD	
TYPE B (120/240) 670KNS/SS/EP/UL	2"	3 / #4	N/A	2P/70	30	100	T. S. LIGHTING	1P/20	23	<1.1	

CONDUIT RUNS											
RUN NO.	LENGTH OF RUN (LF)	CONDUIT TYPE			VDE				SUNL CABLE		
		TRENCH SCH 40 PVC	BORED SCH 40 PVC	STEEL ENCASED SCH 40 PVC	NO. 6 BARE	NO. 6 INSULATED	NO. 8 BARE	NO. 8 INSULATED	10 CDR	12 CDR	
1	20	1			1	2	1	2	6	2	
2	15	1			1	2			1		
3	10	1			1	2			1		
4	35	1			1		1	2	2	2	
5	5	1			1		1	2	1	1	
6	60		1		1		1	2	1	1	
7	5	1			1		1	2	1	1	
8	85			2	1		1	2	3		
9	60	1			1		1	2	1		
10	10		1		1		1	2	2		
11	35	1			1		1	2	1		
12	70	1			1		1	2	1		
TOTAL (LF)	255	70		110	410	70	315	630	680	170	

CABLE TERMININATION CHART						
CONDUCTOR NO.	CONDUCTOR COLOR	CABLE 1 FROM P1 TO CNTRL TO CNDR	CABLE 2 FROM P2 TO CNTRL TO CNDR	CABLE 3 FROM P3 TO CNTRL TO CNDR	CABLE 4 FROM P4 TO CNTRL TO CNDR	CABLE 5 FROM P5 TO CNTRL TO CNDR
1	BLACK	SPARE	SPARE	SPARE	SPARE	SPARE
2	WHITE	SEC COMM	SEC COMM	SEC COMM	SEC COMM	SEC COMM
3	RED	PH. 6 SH 1,2 RED BALL	PH. 2 SH 5,6 RED BALL	SPARE	PH. 2 SH 3 RED BALL	PH. 6 SH 4 RED BALL
4	GREEN	PH. 6 SH 1,2 GREEN BALL	PH. 2 SH 5,6 GREEN BALL	SPARE	PH. 2 SH 3 GREEN BALL	PH. 6 SH 4 GREEN BALL
5	ORANGE	PH. 6 SH 1,2 YELLOW BALL	PH. 2 SH 5,6 YELLOW BALL	SPARE	PH. 2 SH 3 YELLOW BALL	PH. 6 SH 4 YELLOW BALL
6	BLUE	SPARE	SPARE	SH W/ LOW	SH W/ LOW	SPARE
7	WHITE/BLACK	SPARE	SPARE	SH W/ LOW	SH W/ LOW	SPARE
8	RED/BLACK	SPARE	SPARE	SPARE	SPARE	SPARE
9	GREEN/BLACK	SPARE	SPARE	SPARE	SPARE	SPARE
10	ORANGE/BLACK	SPARE	SPARE	SPARE	SPARE	SPARE

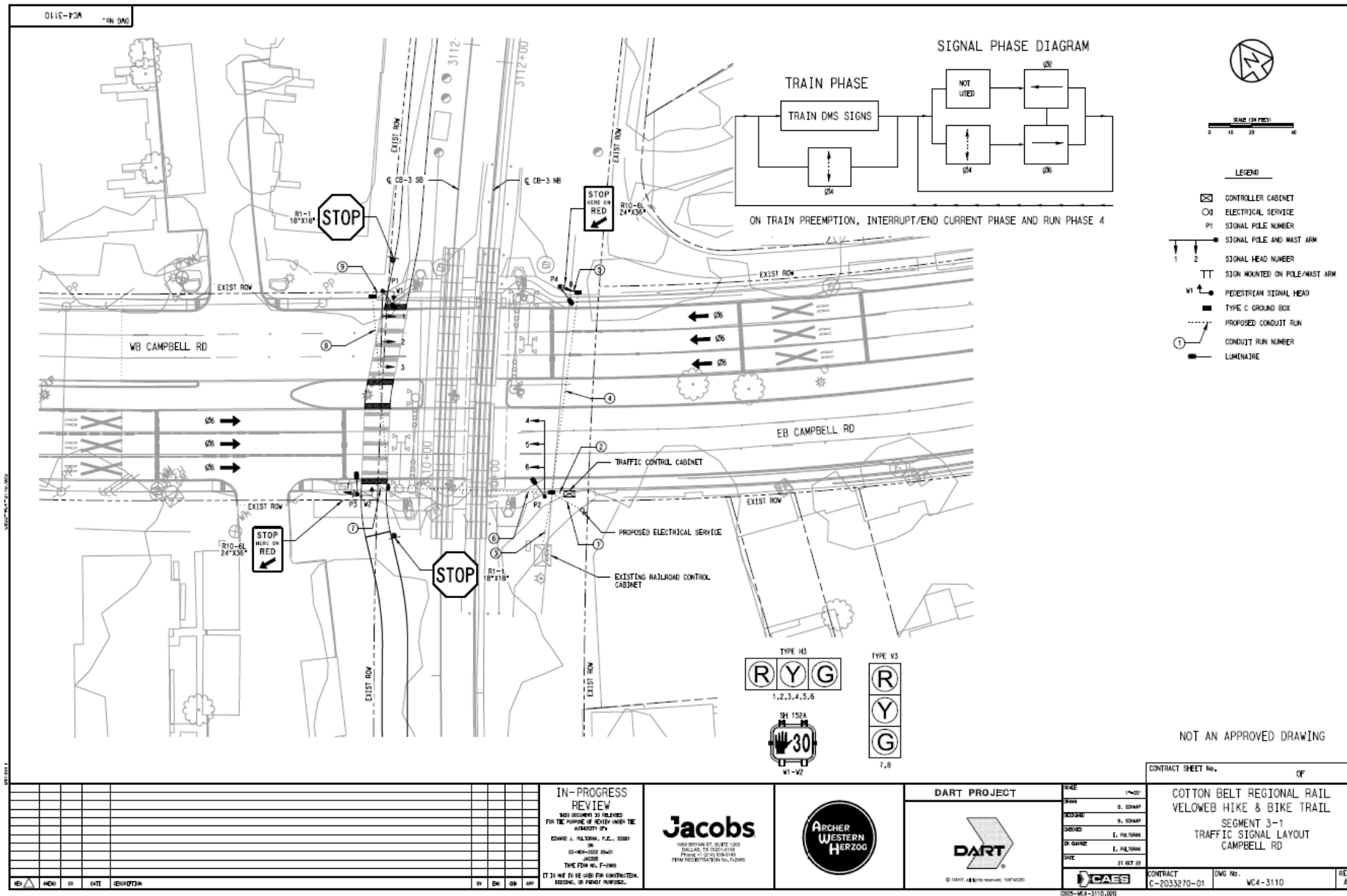
NOTES											
1. LOCATE ALL UTILITIES, DRAINAGE STRUCTURES AND OTHER CONFLICTS PRIOR TO TRENCHING. INSTALLING SPILLED SHAFTS OR POLES, IF NECESSARY, ADJUST LOCATIONS IN ACCORDANCE WITH TRDOT'S POLE PLACEMENT GUIDELINES AND AS DIRECTED BY THE ENGINEER.											
2. TRAFFIC SIGNAL POLES SHALL BE ASSEMBLED AND INSTALLED PER TRDOT SMA-80-12 AND TS-PD-12 STANDARDS.											

TRAFFIC SIGNAL											

SIGNAL POLES														
POLE NO.	A	B	C	D	E	F	G	NO. HEADS		J/LIN (EA)	L/W (EA)	P/D (EA)	FOUNDATION	
								N.A.	POLE				TYPE	DEPTH
P2	7	12	12			24	30	2					24-A	11
P3	6					30			1		1	1	24-A	6
P4	7					30			1		1	1	24-A	6
P5	6					30			1		1	1	24-A	6

CONTRACT INFORMATION											
CONTRACT SHEET No. _____ OF _____											
COTTON BELT REGIONAL RAIL VELOVED HIKE & BIKE TRAIL											
SEGMENT 3-1											
TRAFFIC SIGNAL SUMMARY											
DAVENPORT WEST DR											
DATE: 01 OCT 22											
CONTRACT C-2033270-01											
DWG No. WC4-3099											
REV A											

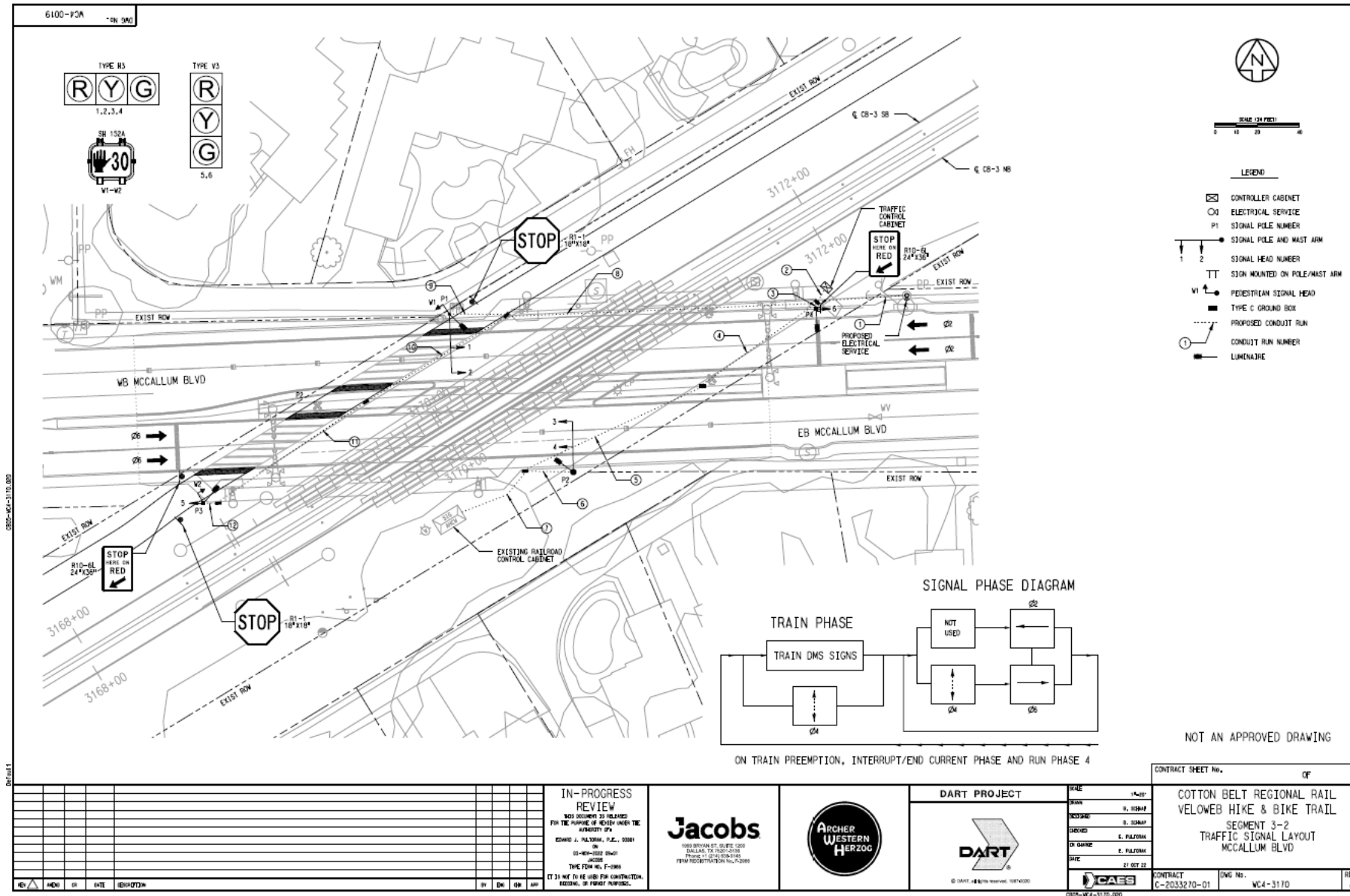
Intersection – Campbell Rd. (60% Design) Sheet WC4-3110



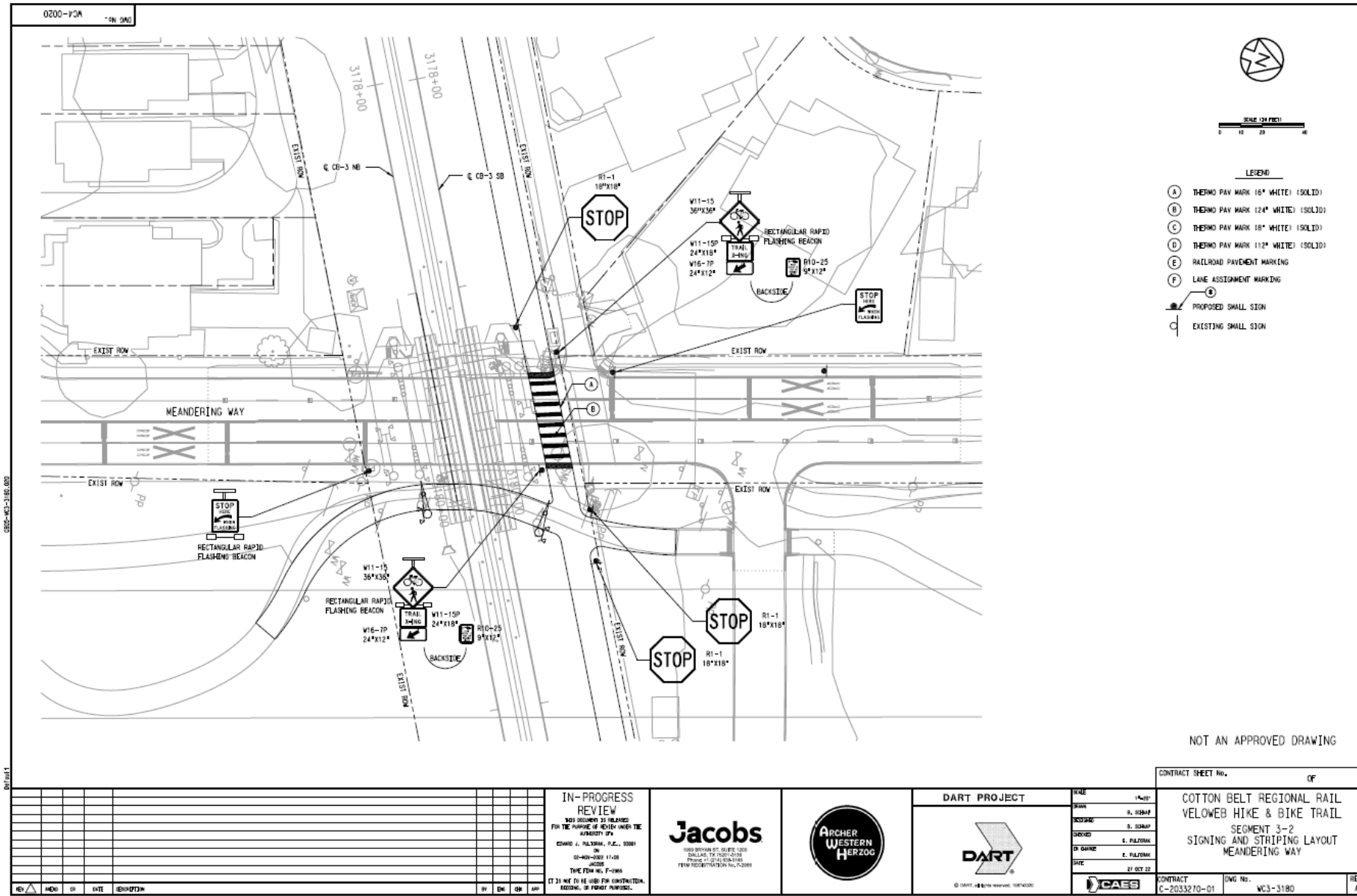
Campbell Rd. (60% Design) – Traffic Signal Summary Sheet WC4-3111

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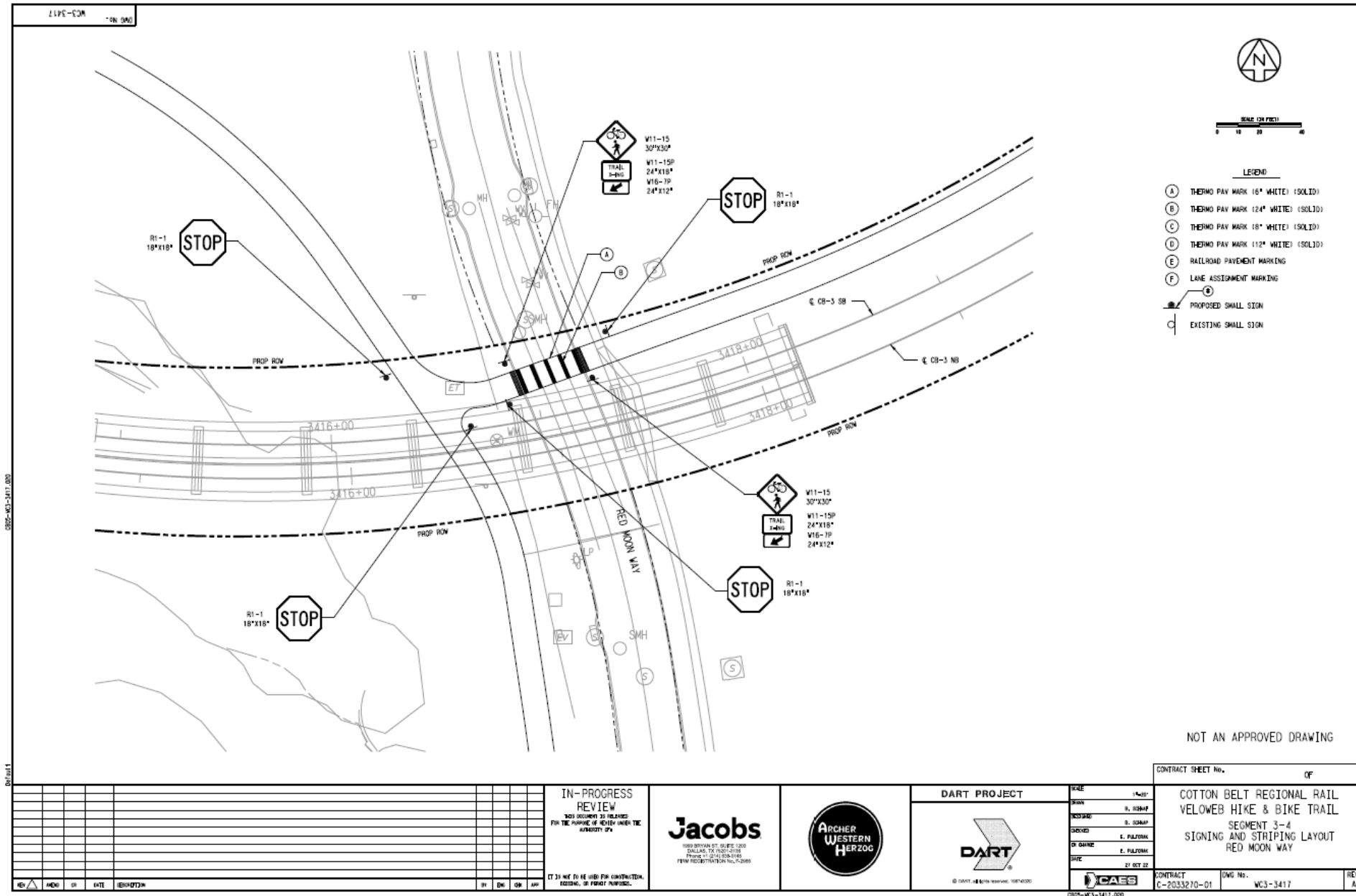
Intersections – McCallum Blvd. (60% Design) Sheet WC4-3170



Intersections – Meandering Way (60% Design) Sheet WC3-318

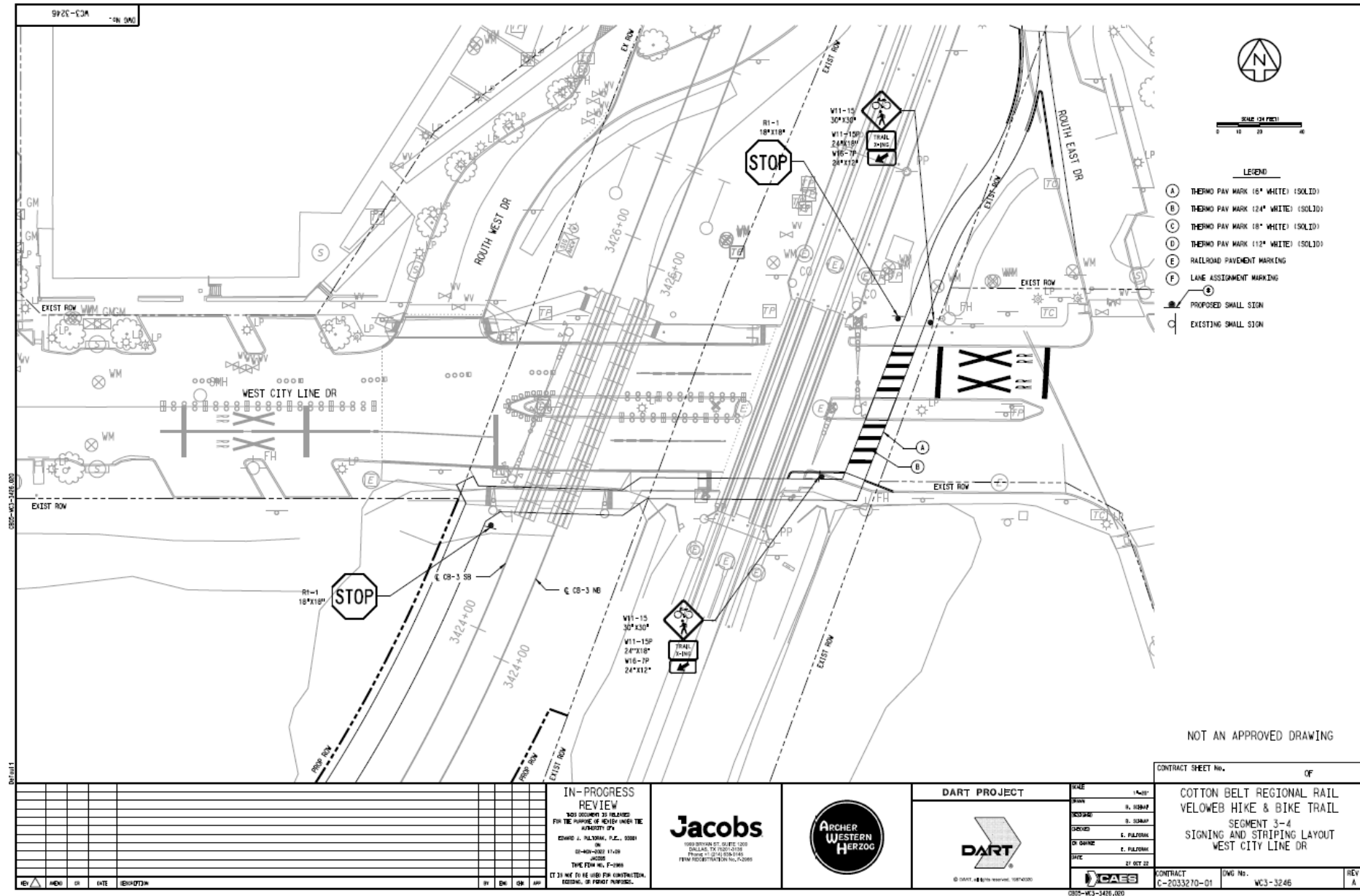


Intersections – Red Moon Way (60% Design) Sheet WC3-341



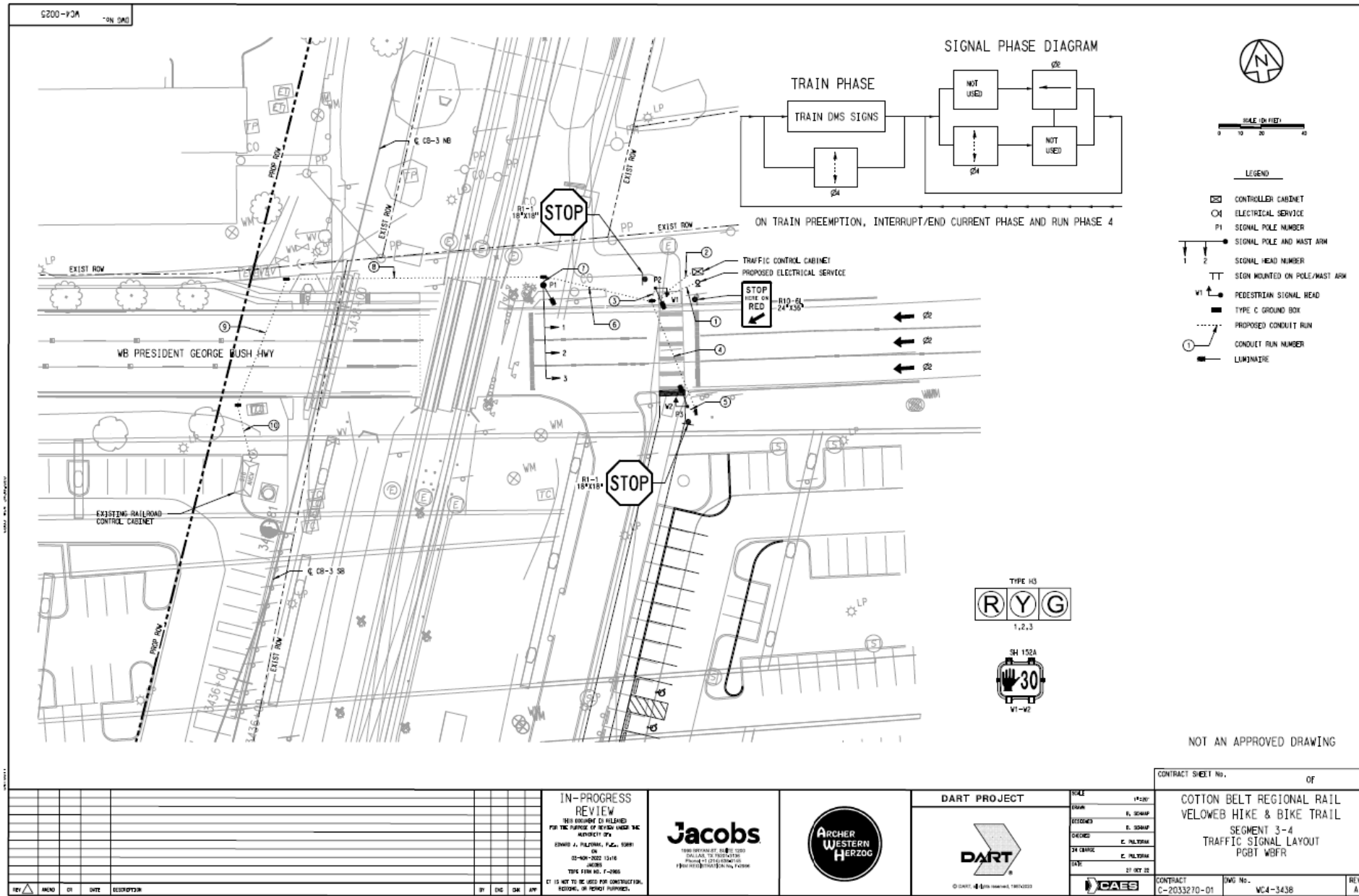
COTTON BELT / SILVER LINE RAIL TRAIL CRITICAL SECTIONS

Intersections – City Line Dr. (60% Design) Sheet WC3-3246



COTTON BELT / SILVER LINE RAIL TRAIL CRITICAL SECTIONS

Intersections – PGBT WBFR (60% Design) Sheet WC4-34



COTTON BELT / SILVER LINE TRAIL CRITICAL SECTIONS

PGBT WBRF (60% Design) – Traffic Signal Summary Sheet WC4-3439

SIGNAL POLES									
POLE NO.	A	B	C	D	E	F	G	NO. HEADS	FOUNDATION
								W.A.C. POLE	TYPE DEPTH
P1	10	20	12	12		44	30	3	24-A 13
P2							30		24-A 6
P3	7						30		24-A 6

STREET LIGHT POLE
STREET LIGHT POLE

TRAFFIC SIGNAL

ELECTRIC SERVICE DATA										
ELECTRIC SERVICE DESCRIPTION	SERVICE CONDUIT NO./SIZE	SERVICE CONDUCTORS NO./SIZE	SAFETY SWITCH AMPS	MAIN DISCONNECT CKT. BRK POLE/AMPS	TWO-POLE CONTRACTOR AMPS	PANEL BO./ LOAD CENTER AMP RATING (WEN)	CIRCUIT NO.	BRANCH CKT. BRK. POLE/AMPS	BRANCH CKT. BRK. POLE/AMPS	KVA LOAD
TYPE B (120/240) OTS/INS/SS/E/PS/U	2"	3 / #4	N/A	2P/70	30	100	T.S. LIGHTING	1P/50 1P/20	23 5	<7.1

CONDUIT RUNS										
RUN NO.	LENGTH OF RUN (LF)	CONDUIT TYPE			WIRE				SIGNAL CABLE	
		THICK SCH 40 PVC	ROBED SCH 40 PVC	STEEL ENCASED 3"	NO. 6 BARE	NO. 6 INSULATED	NO. 8 BARE	NO. 8 INSULATED	10 CDR 14 AWG	2 CDR 12 AWG
1	25	1			1	2			4	2
2	25	1			1				1	1
3	10	1			1		1	2	1	1
4	55	1	1		1		1	2	1	1
5	5	1			1		1	2	1	1
6	50	1			1		1	2	2	
7	5	1			1		1	2	1	
8	170			2	1		1	2	1	
9	65		1		1				1	
10	30	1			1				1	
TOTAL (LF)	150	120		340	440	100	310	620	540	120

CABLE TERMINATION CHART				
CNDR NO.	CONDUCTOR COLOR	CABLE 1 FROM P1 TO CNTRL TO CNDR	CABLE 2 FROM P2 TO CNTRL TO CNDR	CABLE 3 FROM P3 TO CNTRL TO CNDR
1	BLACK	SPARE	SPARE	SPARE
2	WHITE	SIG COMM	SIG COMM	SIG COMM
3	RED	PH, 2 SH 1, 2, 3 RED BALL	SPARE	SPARE
4	GREEN	PH, 2 SH 1, 2, 3 GREEN BALL	SPARE	SPARE
5	ORANGE	PH, 2 SH 1, 2, 3 YELLOW BALL	SPARE	SPARE
6	BLUE	SPARE	SH W1:V	SH W2:V
7	WHITE/BLACK	SPARE	SH W1:W	SH W2:W
8	RED/BLACK	SPARE	SPARE	SPARE
9	GREEN/BLACK	SPARE	SPARE	SPARE
10	ORANGE/BLACK	SPARE	SPARE	SPARE

NOTES:

- LOCATE ALL UTILITIES, DRAINAGE STRUCTURES AND OTHER CONFLICTS PRIOR TO TRENCHING. INSTALLING DRILLED SHAFTS OR PILES, IF NECESSARY, ADJUST LOCATIONS IN ACCORDANCE WITH TxDOT'S POLE PLACEMENT GUIDELINES AND AS DIRECTED BY THE ENGINEER.
- TRAFFIC SIGNAL POLES SHALL BE ASSEMBLED AND INSTALLED PER TxDOT SMA-80-12 AND TS-PD-12 STANDARDS.

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IN-PROGRESS REVIEW				DART PROJECT		CONTRACT SHEET No. WC4-3439 OF 01	
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EDWARD J. PALOMAK, P.E., 33081				ARCHER WESTERN HERZOG		SEGMENT 3-4	
03-SEP-2022 09:40				DART		TRAFFIC SIGNAL SUMMARY	
THIS FORM NO. F-1088				DART		PGBT WBRF	
IT IS NOT TO BE USED FOR CONSTRUCTION, RECORDING, OR PERMIT PURPOSES.				DART		CONTRACT C-2033270-01	
REV A				DART		DWG NO. WC4-3439	