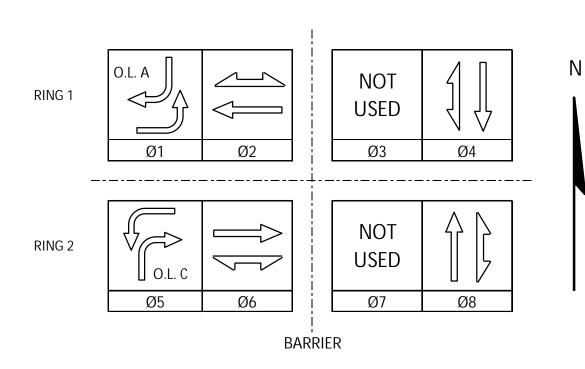


Ø1	HEAD NUMBERS 11,12	F L A S H R
Ø2	1,2,3,4	R
Ø3		
Ø4	13,14,15	R
Ø5	5,6	₽Į
Ø6	7,8,9,10	R
Ø7		
Ø8	16,17,18	R
Ø2P	81,82	
Ø4P		
Ø6P	87,88	
Ø8P		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		4		Х
2		6		Х
3				
4				Х
5		8		Х
6		2		Х
7				
8				Χ

EMERGENCY VEHICLE PREEMPTION SEQUENCE									
EMERGENCY VEHICLE PREEMPTOR	А	В	С	D					
MOVEMENT									
PHASE	2+5	6+1							

AFTER PREEMPTION SEQUENCE A OR B, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE C OR D, CONTROLLER SHALL RETURN TO PHASES 4+8.

CELL MODEM

TYPE OF COORD	INATION	
NONE		
TBC		
TRAFFIC RESPONSIVE		Χ
CLOSED LOOP		
ADAPTIVE		
*LOCATION OF MASTER		
CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	-22	

TYPE OF INTERCONNECT/COMMUNICATION

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	
IN SEPARATE DOT LIGHTING CABINET	Х

TYPE OF PRE-EMPT					
NONE					
RAILROAD					
EMERGENCY VEHICLE	Χ				
GTT					
TOMAR					
HARDWIRE					
OTHER					
LIFT BRIDGE					
QUEUE DETECTION					

GENERAL NOTES:

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	25	27	29	51	61
CALLED PHASE	1	2	2	2	2	2	5	6
CALL OPTION								
DELAY TIME								
EXTENSION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	24	26	28	41	52	62
PHASE CALLED	1	2	2	2	2	4	5	6
CALL OPTION								
DELAY TIME								
EXTENSION OPTION								
EXTEND TIME								

19	17	23	21	27	25	31	29	DETECTOR INPUT	
63	65	67	69					PLAN LOOP DETECTOR*(S)	1.
6	6	6	6					CALLED PHASE	٠.
								CALL OPTION	
								DELAY TIME	2.
								EXTENSION OPTION	
								EXTEND TIME	
								USE ADDED INITIAL	3.
								CROSS SWITCH PHASE	
								_	
20	18	24	22	28	26	32	30	DETECTOR INPUT	4.
64	66	68	81					PLAN LOOP DETECTOR*(S)	
6	6	6	8					PHASE CALLED	
								CALL OPTION	
								DELAY TIME	
								EXTENSION OPTION	
								EXTEND TIME	

East Washington Avenue and Livingston Street
CITY OF MADISON
DANE COUNTY
SIGNAL NO:
CABINET TYPE: TS2
CONTROLLER TYPE: COBALT

DATE: 8/1/2022

CITY OF MADISON, DANE COUNTY, WI

SEQUENCE OF OPERATION: E WASHINGTON AVENUE AT LIVINGSTON STREET BUS RAPID TRANSIT CITY OF MADISON, DA

60631225P

S-3

PROJECT ID:	60631225
INTERSECTION:	EAST WASHINGTON AVENUE & LIVINGSTON STREET

		RED - red	GRN - green
Signal wire Color Coding	WHT - white	BLU - blue	ORG - orange

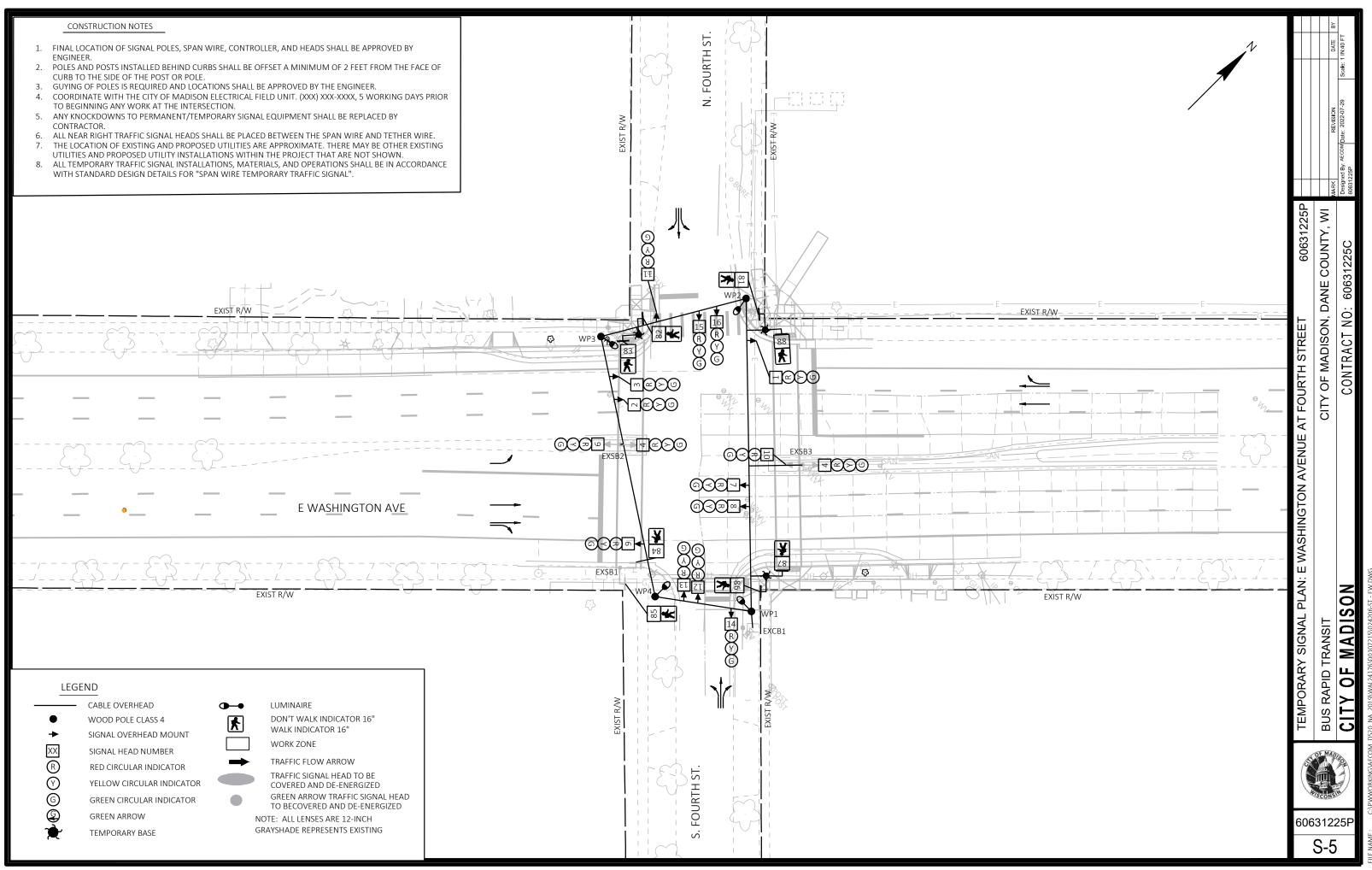
	NO OF							SIGNAL	INDICATION W	IRE COLOR						
ЕХСВ1 ТО	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<green></green>	<flashing YELLOW></flashing 	" - "	"Δ"	" "	D/WALK	WALK	PED BUTTON	OTHE
	1.2															
SB1	12	1	RED	ORG	GRN											<u> </u>
		81			ļ								BLK	BLU		
		83			ļ								BLK/WHT	BLU/BLK		
		В		-									+ +		WHT/BLK	
SB2	12	5		+	 	RED	ORG	GRN					+			
362	12	8	DED/DI K	ORG/BLK	CDN/DLK	KED	UKG	GKN					+			
		8	KED/BLK	OKG/BLK	GRN/BLK								+			
SB3	12	9	RED	ORG	GRN											
		10		ORG/BLK												
SB4	7	16	RED	ORG	GRN											
		88											BLK	BLU		
SB5	12	7	RED	ORG	GRN											
		86											BLK	BLU		
		В													WHT/BLK	
		87											BLK/WHT	BLU/BLK		
EVODA	EVICTING				ļ					EVICTINO						
EXSB6	EXISTING	6								EXISTING						
		15								EXISTING EXISTING						
		85 B								EXISTING						
		В		T						EXISTING			1 1		<u> </u>	
EXSB7	EXISTING	12		.1	ļ			<u> </u>		EXISTING	ļ				<u> </u>	
		14								EXISTING						
		17								EXISTING						
EXSB8	EXISTING	18		•	•			•		EXISTING	•	•			•	
		84								EXISTING						
		В		_						EXISTING		_			.	
		_											1			ļ
SB9	12	2	RED	ORG	GRN								1			<u> </u>
		11	-	1		RED/BLK	ORG/BLK	GRN/BLK					1			1
6040	40		DED	000	CDN							-	+			
SB10	12	3	RED	ORG ORG/BLK	GRN								+			1
	+	4	KED/BLK	OKG/BLK	GKN/BLK							 	+ +			1
EXSB11	EXISTING	13		1	<u> </u>	<u> </u>				EXISTING	<u> </u>	ļ				·
LAUDII	LAISTING	82								EXISTING						
		B								EXISTING						
	+	+ <u> </u>	 	1		1		1			1		1			

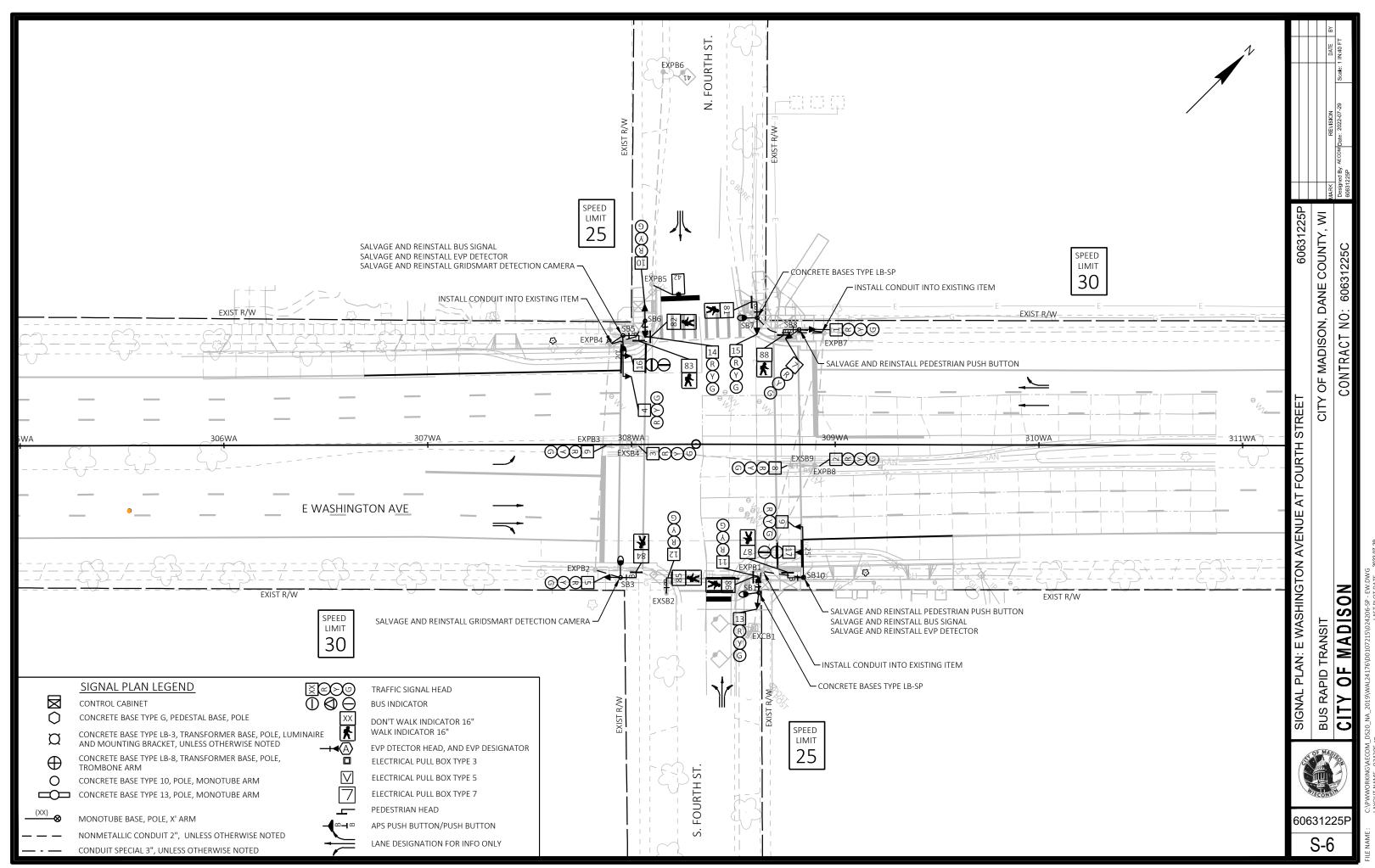




60631225P

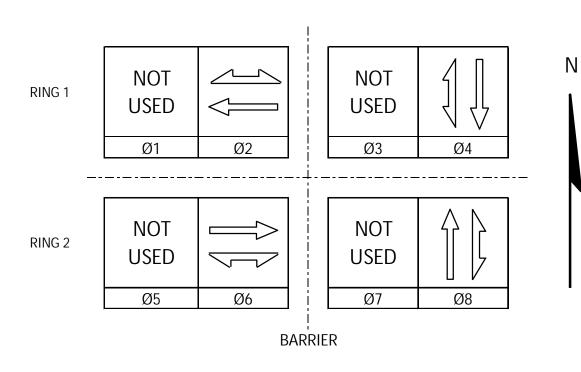
S-4





	HEAD NUMBERS	F L A S H
Ø1		
Ø2	1,2,3,4	R
Ø3		
Ø4	10,11,12	R
Ø5		
Ø6	5,6,7,8,9	R
Ø7		
Ø8	13,14,15	R
Ø2P	81,82	
Ø4P	83,84	
Ø6P	85,86	
Ø8P	87,88	

DETECTOR INPUT 3



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2		6		Х
3				
4		8		Χ
5				
6		2		Χ
7				
8		4		Χ

EMERGENCY VEHICLE PREEMPTION SEQUENCE								
EMERGENCY VEHICLE PREEMPTOR	А	В	С	D				
MOVEMENT		\						
PHASE 2+6 6+2								

AFTER PREEMPTION SEQUENCE A OR B, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE C OR D, CONTROLLER SHALL RETURN TO PHASES 4+8.

R LOGIC CLOSED LOOP TWISTED PAIR FIBER OPTIC* FIBER OPTIC (ETHERNET) RADIO

CELL MODEM

TYPE OF COORD	INATION	
NONE		
TBC		
TRAFFIC RESPONSIVE		Χ
CLOSED LOOP		
ADAPTIVE		
*LOCATION OF MASTER		
CONTROLLER NO:	S-	
SIGNIAL SYSTEM NO:	22	

TYPE OF INTERCONNECT/COMMUNICATION

Χ

TYPE OF PRE-EMPT					
IONE					
RAILROAD					
MERGENCY VEHICLE	Χ				
GTT					
TOMAR					
HARDWIRE					
OTHER					
IFT BRIDGE					
QUEUE DETECTION					

GENERAL NOTES:

DETECTOR LOGIC

PLAN LOOP DETECTOR*(S)	41							
PHASE CALLED	4							
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								
DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR INPUT PLAN LOOP DETECTOR*(S)		2	8	6	12	10	16	14
	42	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	42 4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S) PHASE CALLED	42 4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S) PHASE CALLED PHASE EXTENDED	42	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S) PHASE CALLED PHASE EXTENDED DISCONNECT TIME	42	2	8	6	12	10	16	14

19	17	23	21	27	25	31	29	DETECTOR INPUT	
								PLAN LOOP DETECTOR*(S)	1
								PHASE CALLED	
								PHASE EXTENDED	
								DISCONNECT TIME	2.
								CALLING DELAY	
								EXTENSION STRETCH	
								LOOP FUNCTION	3.
								-	
20	18	24	22	28	26	32	30	DETECTOR INPUT	4.
								PLAN LOOP DETECTOR*(S)	4.
								PHASE CALLED	
								PHASE EXTENDED	
								DISCONNECT TIME	
								CALLING DELAY	
								EXTENSION STRETCH	
								LOOP FUNCTION	

East Washington Avenue and Fourth Street Early Works
CITY OF MADISON
DANE COUNTY
SIGNAL NO: CABINET TYPE: TS2

DATE: 8/1/2022

CONTROLLER TYPE: COBALT

CITY OF MADISON, DANE COUNTY, WI

SEQUENCE OF OPERATION: E WASHINGTON AVENUE AT FOURTH STREET BUS RAPID TRANSIT

CONTRACT NO: 60631225C

60631225P

S-7

PROJECT ID:	60631225	•		BLK - black	RED - red
INTERSECTION:	EAST WASHINGTON AVENUE & FOURTH STREET		Signal Wire Color Coding		BLU - blue

	T	SIGNAL INDICATION WIRE COLOR														
EXCB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<red></red>	<yellow></yellow>	<green></green>	<flashing YELLOW></flashing 	н " п	" Δ "	" "	D/WALK WALK PED B	PED BUTTON	OTHER	
SB1	12	11	RED	ORG	GRN											
		13	RED/BLK	ORG/BLK	GRN/BLK											
		86											BLK	BLU		
		В													WHT/BLK	
		1		Ļ	ļ					EVICTING						<u> </u>
EXSB2	7	12				ı		1		EXISTING	1	1	1 511/			
		85											BLK	BLU	WUIT/DI 16	
		В													WHT/BLK	
0.00	_	_	555	000	000											
SB3	7	5	RED	ORG	GRN								DI K	BLU		
		84											BLK	BLU	WIIT/DLK	
		В											+		WHT/BLK	
EVOD4	EVICTING									EXISTING						
EXSB4	EXISTING	3								EXISTING						
		6				ı		Ι	<u> </u>	EXISTING	I					
ODE	7	4	RED	000	GRN											
SB5	 		KED	ORG	GRN								DI K	DI II		
		83 B											BLK	BLU	WHT/BLK	
		<u> </u>													WHI/BLK	
SB6	12	10	RED	ORG	GRN											
300	12	14		ORG/BLK												
		82	KED/BLK	OKG/BLK	GRN/BLK								BLK	BLU		
		B			<u> </u>								BLN	BLU	WHT/BLK	
		<u> В</u>		+									+		WHI/BLK	
SB7	7	15	RED	ORG	GRN											
367	1	81	KED	UKG	GRN								BLK	BLU		
		B											BLN	BLU	WHT/BLK	
		<u> </u>													WHI/BLK	
SB8	12	1	RED	ORG	GRN											
360	12	7			GRN/BLK											
		88	KLD/BLK	ORGIBER	GRAZBER								BLK	BLU		
		B											BLK	BLU	WHT/BLK	
				 	+								+ +		WHI/BLK	
EXSB9	EXISTING	2				l .		<u>I</u>		EXISTING	<u>l</u>					
LAGDS	LAISTING	8								EXISTING						
SB10	7	9	RED	ORG	GRN								+ +			
0510	'	87	ILL	0									BLK	BLU		
		B											 :\		WHT/BLK	
					<u> </u>								+			

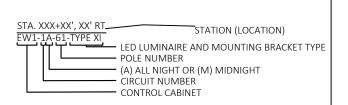
GRN - green ORG - orange





CONSTRUCTION NOTES:

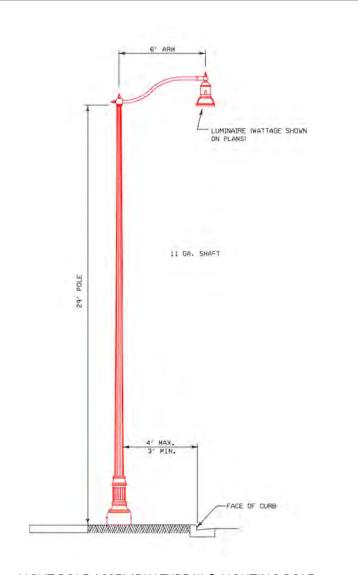
- 1. ALL EXISTING CIRCUITS ARE 240/480V ON EAST WASHINGTON AVENUE. ALL PROPOSED CIRCUITS ARE 120/240V.
- COORDINATE ALL MODIFICATIONS OF EXISTING LIGHTING CIRCUITS WITH THE CITY OF MADISON.
- NO CIRCUIT CONDUCTOR SPLICES ARE ALLOWED IN PULL BOXES.
- REMOVAL OF ALL AERIAL CABLE AND ABANDONMENT OF BELOW GRADE WIRING IS INCIDENTAL TO THE REMOVING LIGHTING UNITS BID ITEM.
- CONTACT CITY FORESTRY 48-HOURS PRIOR TO INSTALLING STREET LIGHTS IF TREE TRIMMING IS NEEDED.
- THE MINIMUM OFFSET FOR STREET LIGHT BASES FROM THE EDGE OF DRIVEWAYS SHALL BE: RESIDENTIAL - 5'
 - COMMERCIAL 10'
- 7. CHECK FOR BASES OVERHEAD UTILITY CONFLICTS PRIOR TO CONSTRUCTING THE CONCRETE BASES.
- INSTALLING WOOD POLES, RELOCATING LIGHTING CONTROL CABINETS, INSTALLING GUY WIRES, AERIAL CABLE, AND CONDUIT RISERS ARE INCIDENTAL
- LIGHTING SYSTEM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION AT EACH STATION. NO TEMPORARY SYSTEM WILL INSTALLED EXCEPT FOR THE LOCATIONS LISTED IN THE TABLE BELOW.
- 10. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA NOT SHOWN.
- 11. PLANS WERE DEVELOPED BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. CONTRACTOR TO FIELD REVIEW SIGNAL/LIGHTING INFRASTRUCTURE LOCATIONS AND WIRE/CABLE ROUTING AND ADJUST AS NECESSARY. COORDINATE ALL FIELD ADJUSTMENTS WITH THE ENGINEER.
- 12. REMOVE ALL LIGHTING WIRE AND CABLE, AND GROUNDING WIRES FROM EXISTING CONDUIT SYSTEM WHERE APPLICABLE. ABANDON CONDUIT IN



TEMPORARY LIGHTING LOCATIONS

E WASHINGTON AVENUE & N LIVINGSTON ST

E WASHINGTON AVENUE & N 4TH ST



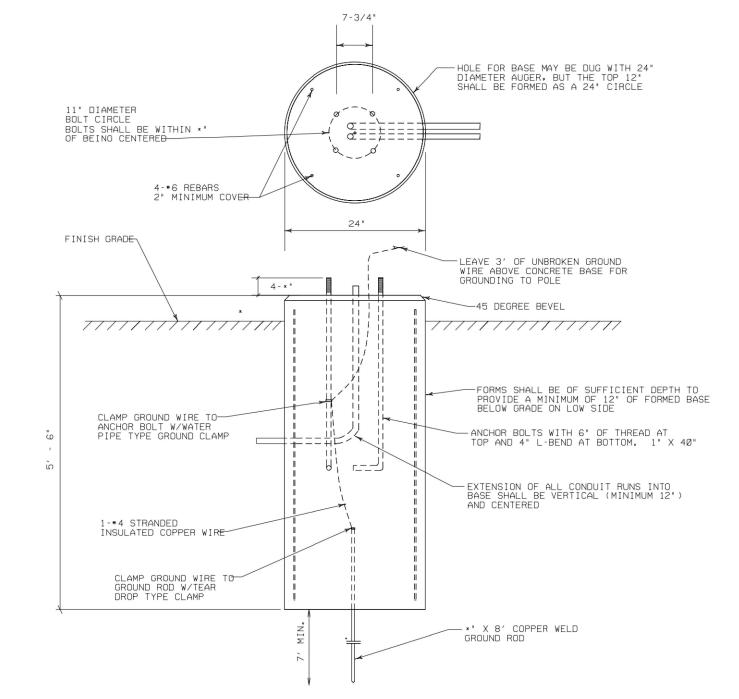
LIGHT POLE ASSEMBLY TYPE III & LIGHTING POLE ASSEMBLY TYPE III POLE (NOT TO SCALE)

LIGHTING ASSEMBLY LEGEND

LED LUMINARE

AND MOUNTING BRACKET PLAN SYMBOL LIGHTING ASSEMBLY LUMINAIRE ARM

TYPE X - K809-P4L-III-100(SSL)-8060-120-277-KPL20-4K LIGHT POLE ASSEMBLY TYPE 3-HAPCO 6-FT SINGLE TYPE XI - K809-P4L-III-150(SSL)-8060-120-277-KPL20-4K



LIGHTING ASSEMBLY TYPE III POLE CONCRETE - LP-SP (NOT TO SCALE)



60631225P

⋝

COUNTY,

DANE (

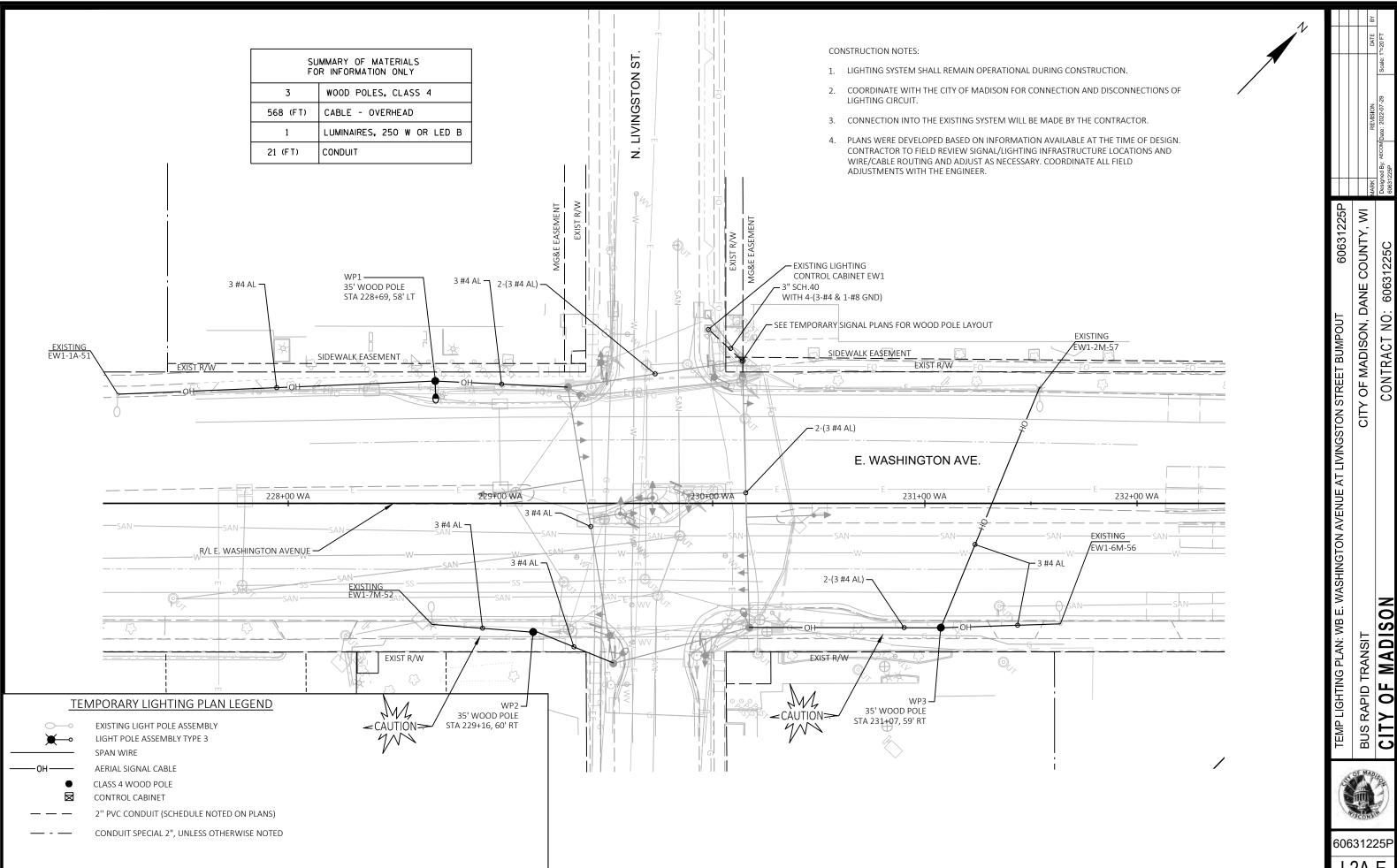
MADISON,

QF

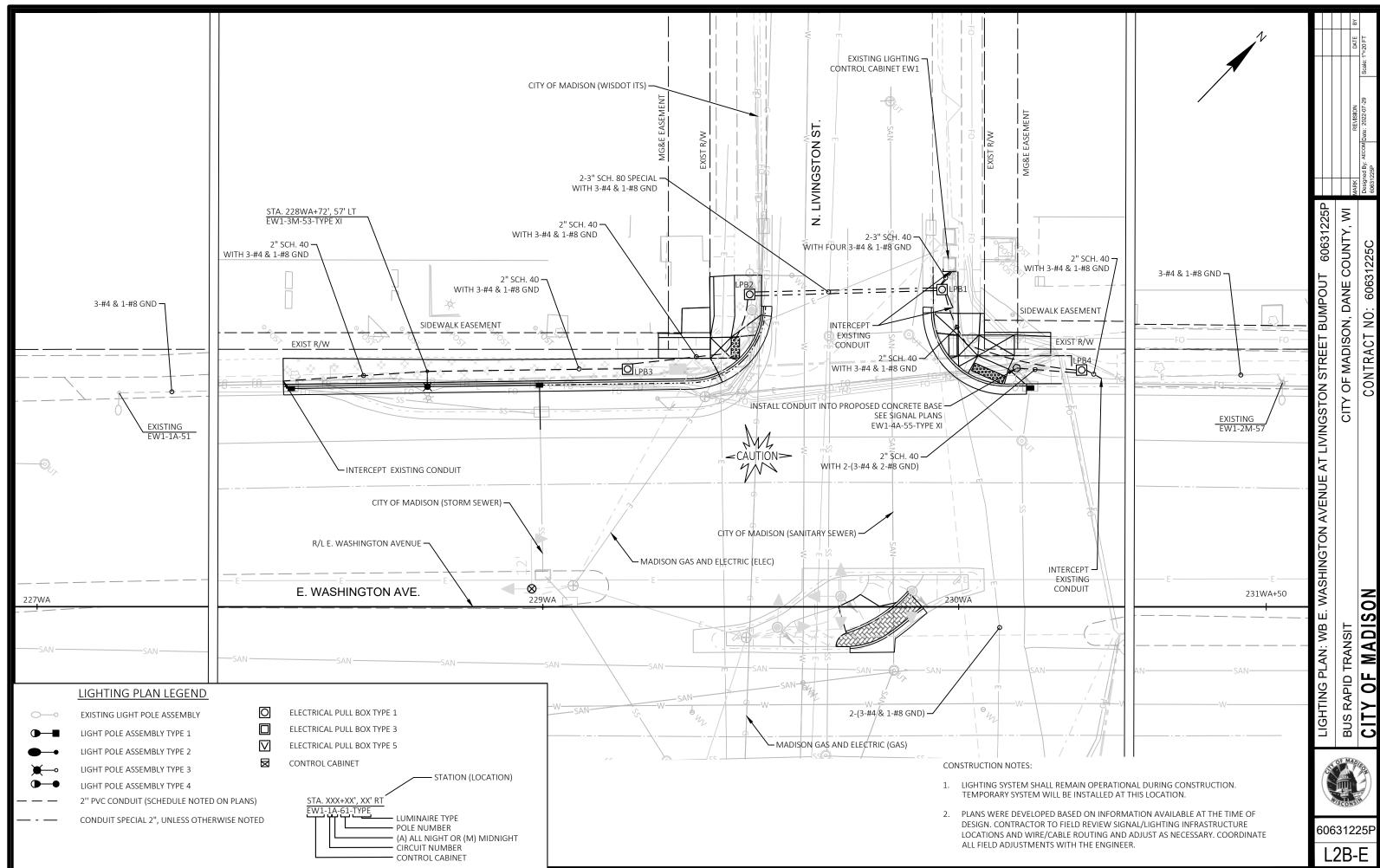
CITY

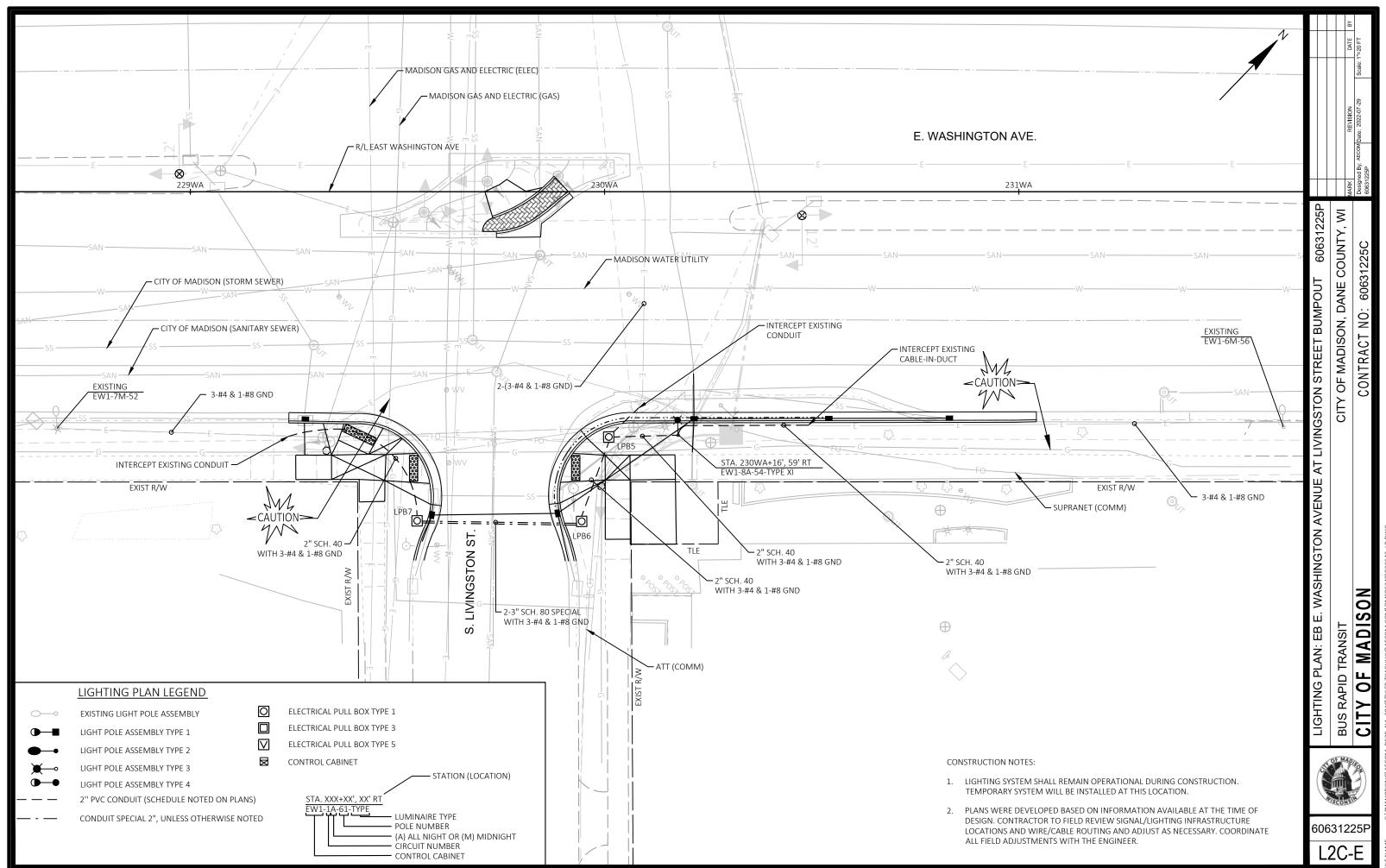
RAPID TRANSIT MADI 0F BUS

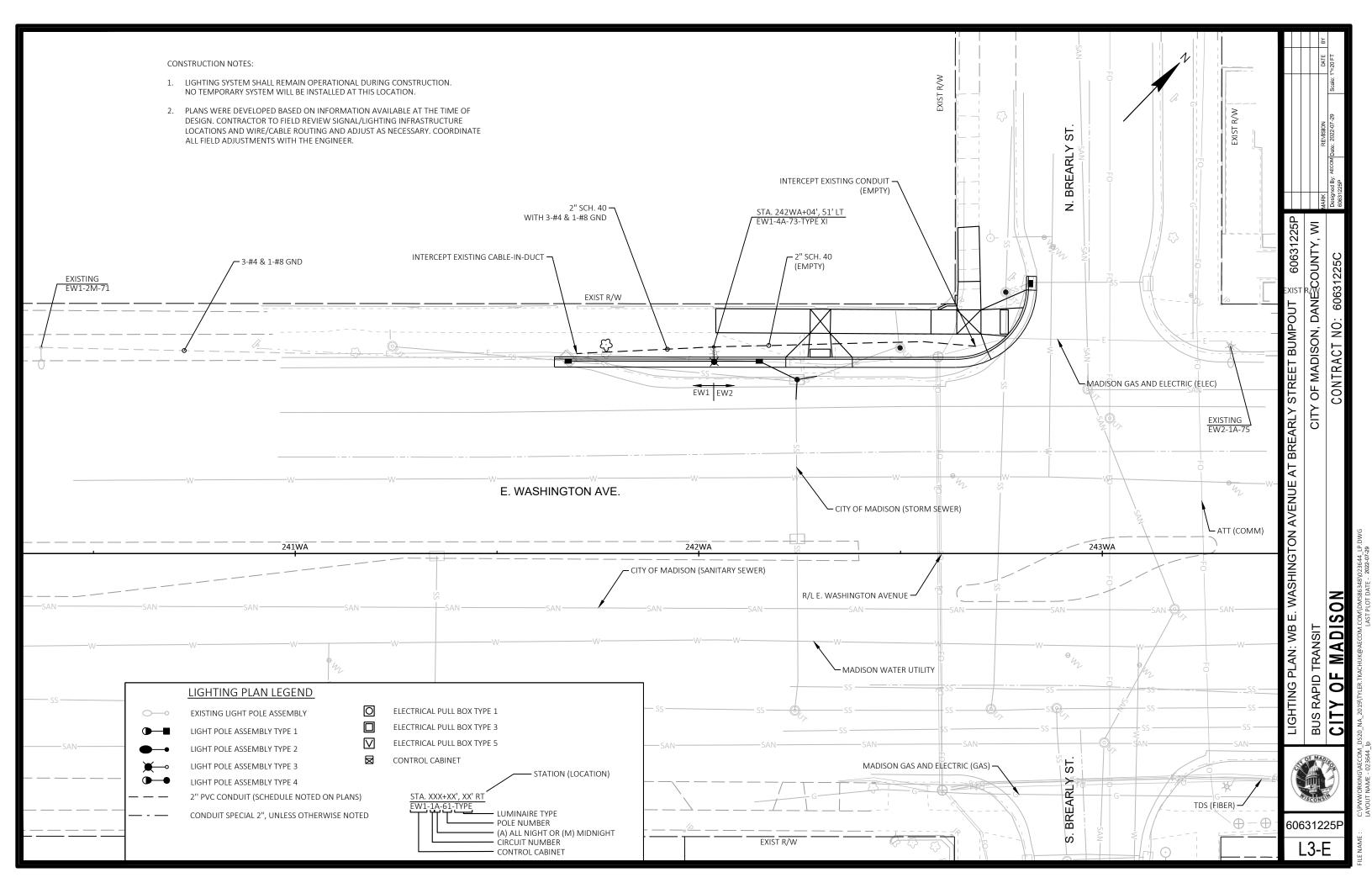
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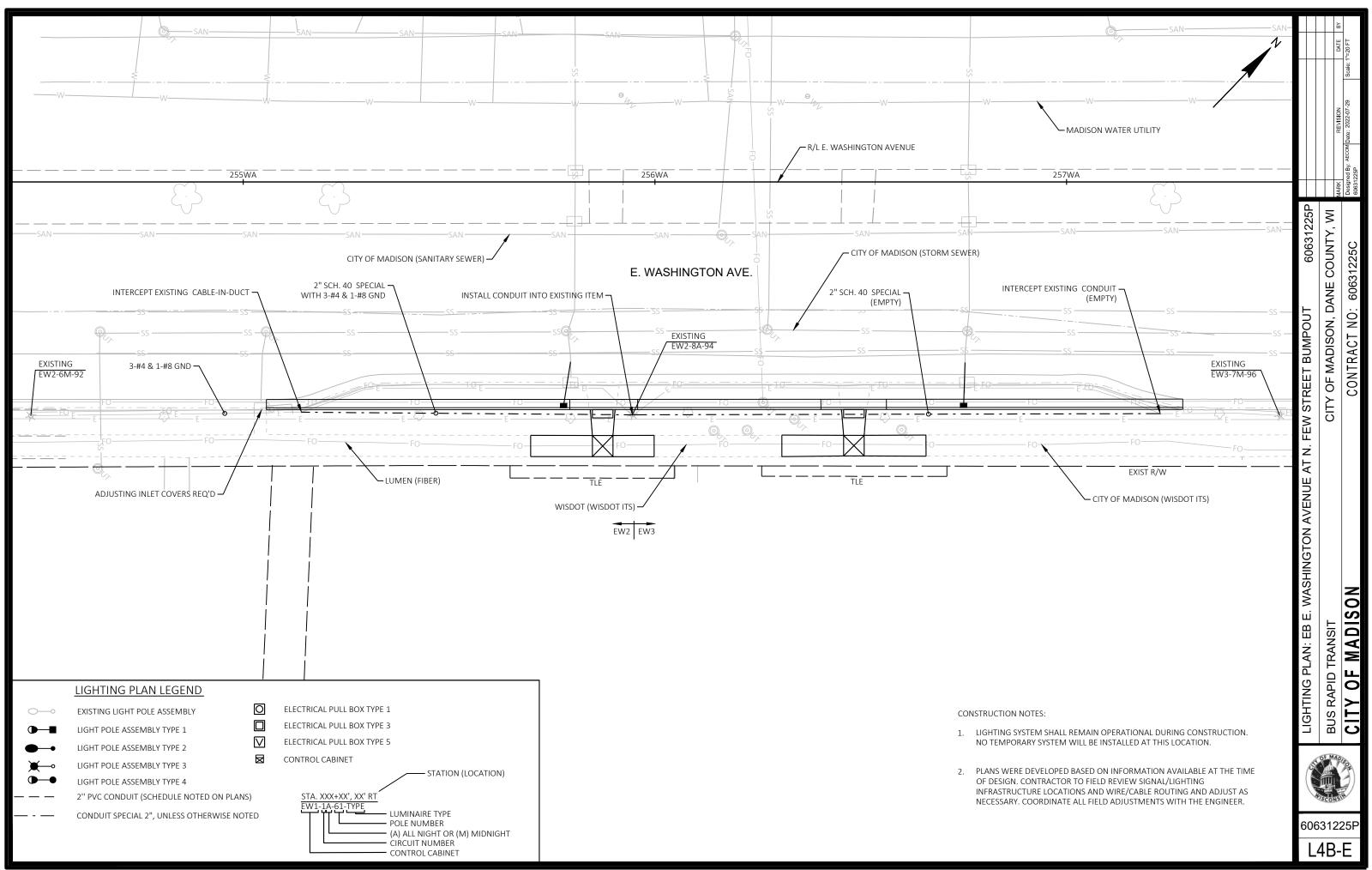


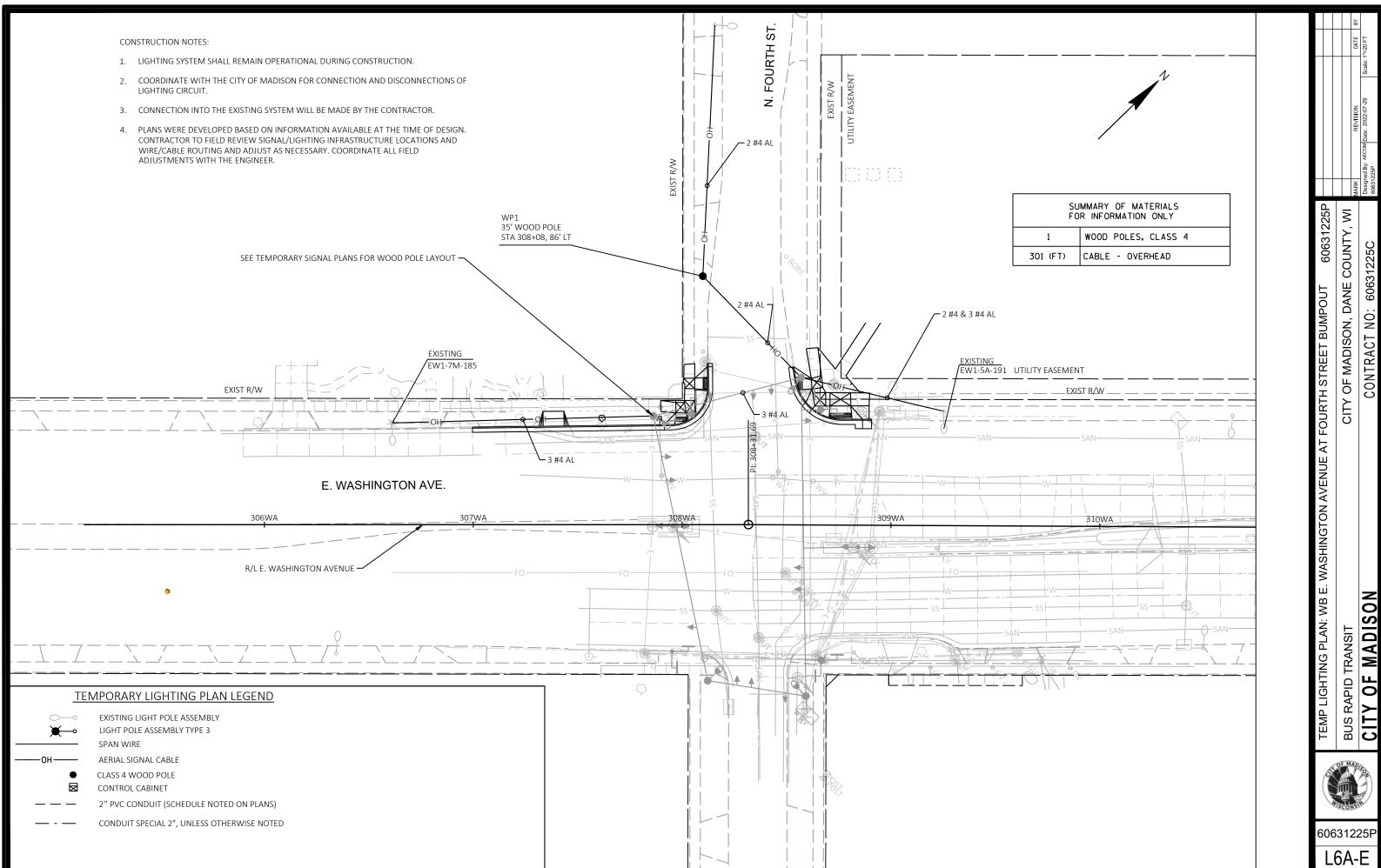


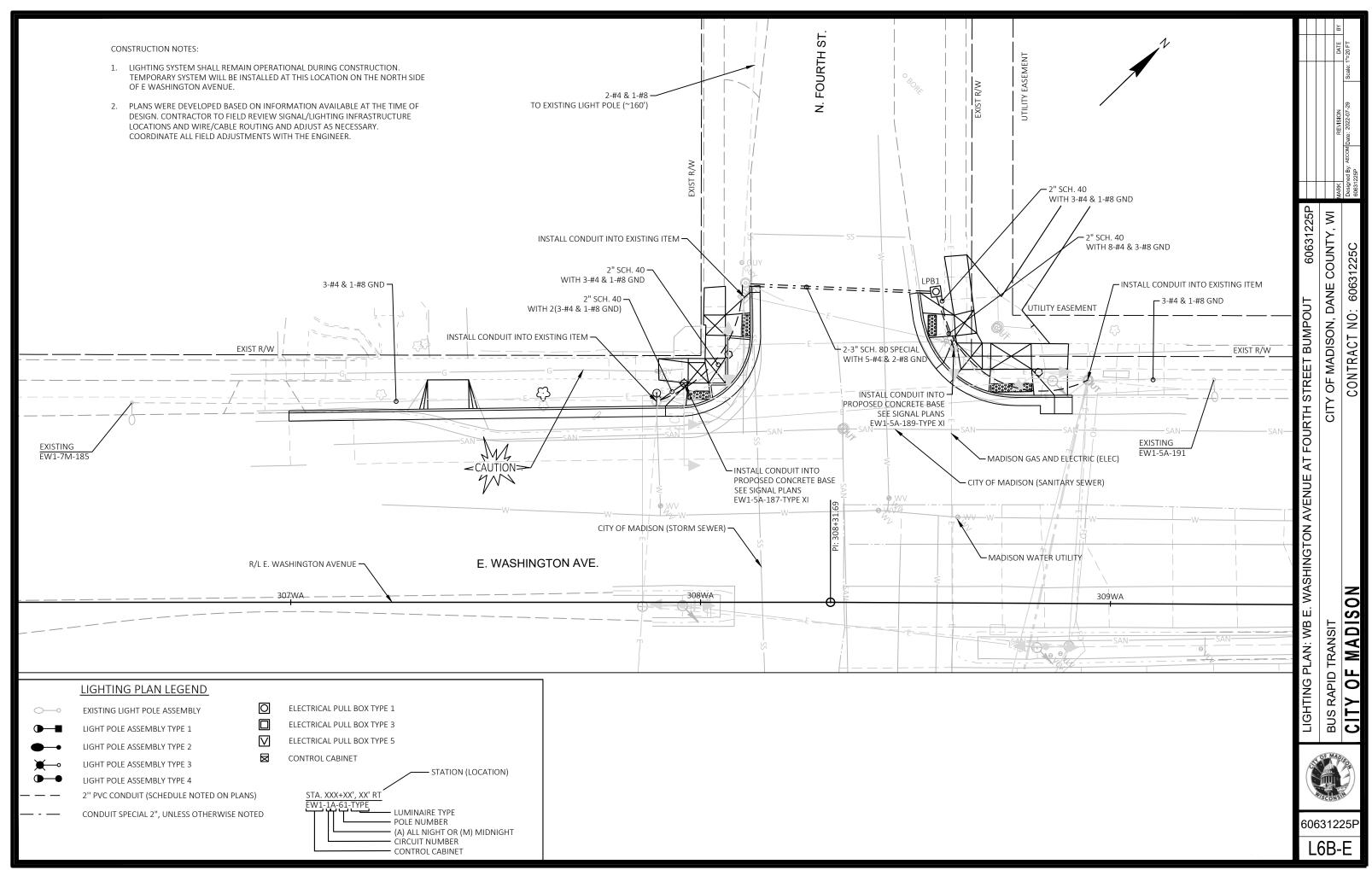
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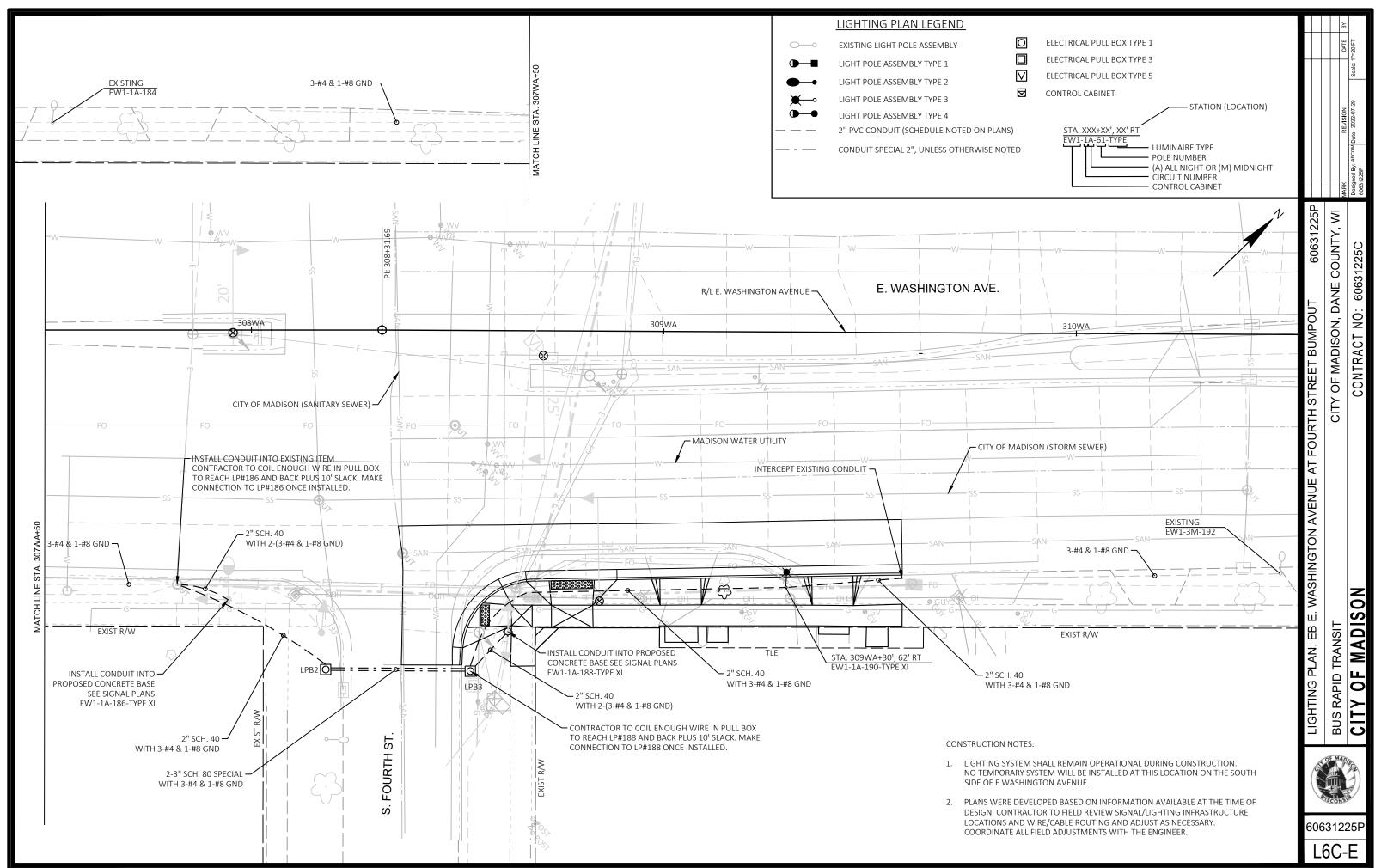
C:\PWWORKING\AECOM_DS20_NA_2019\TY LAYOUT NAME - 023646_lp

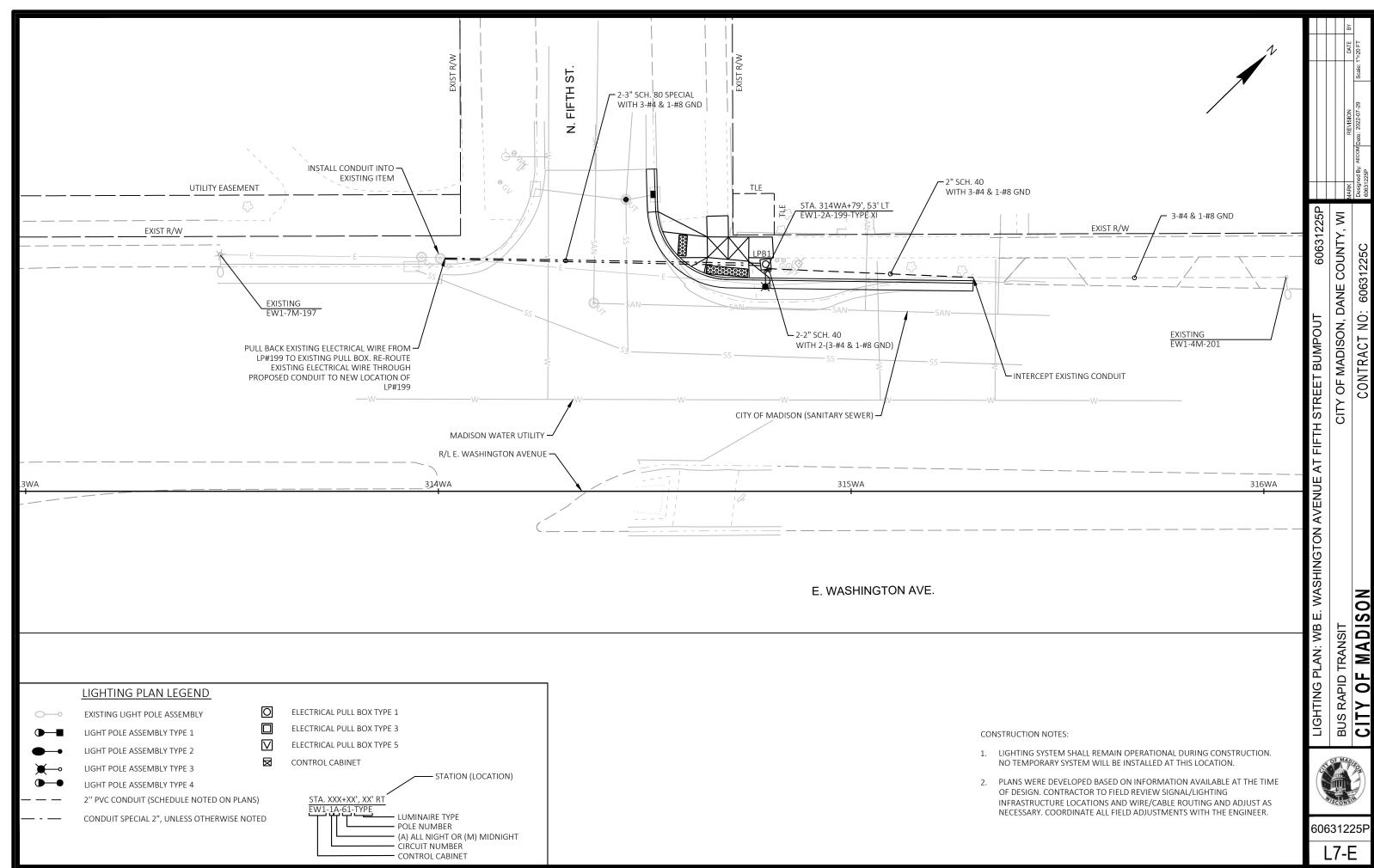
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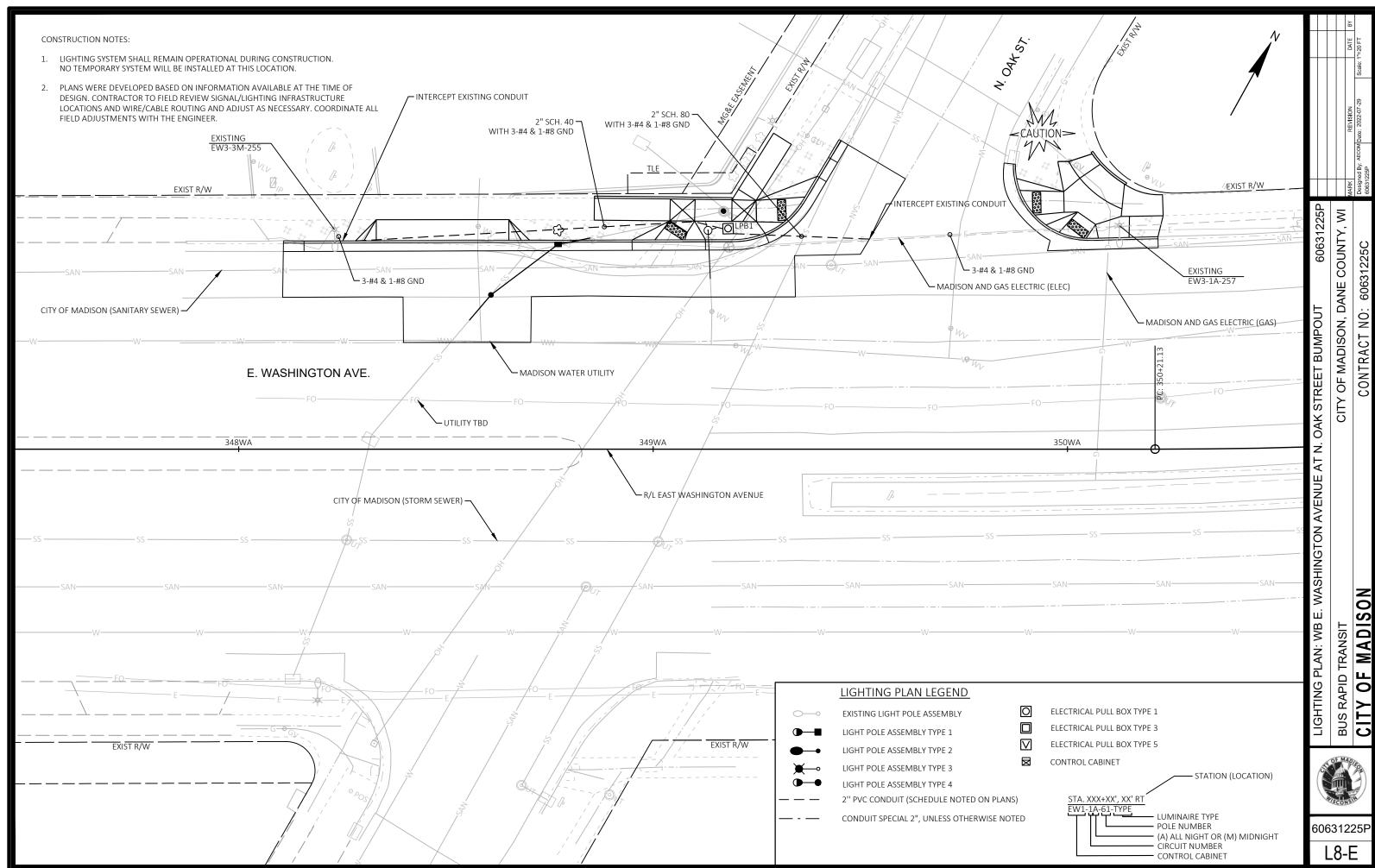


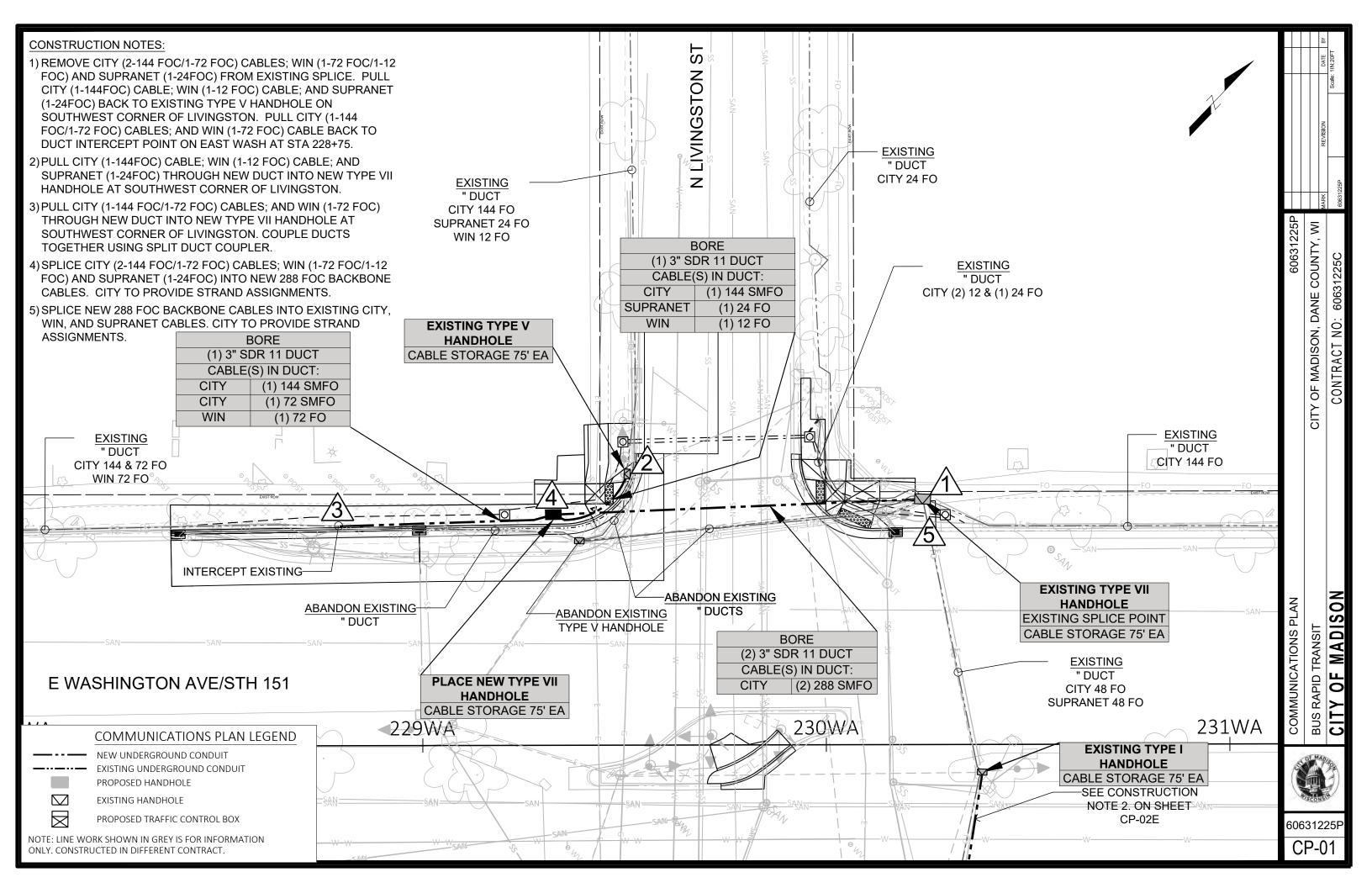


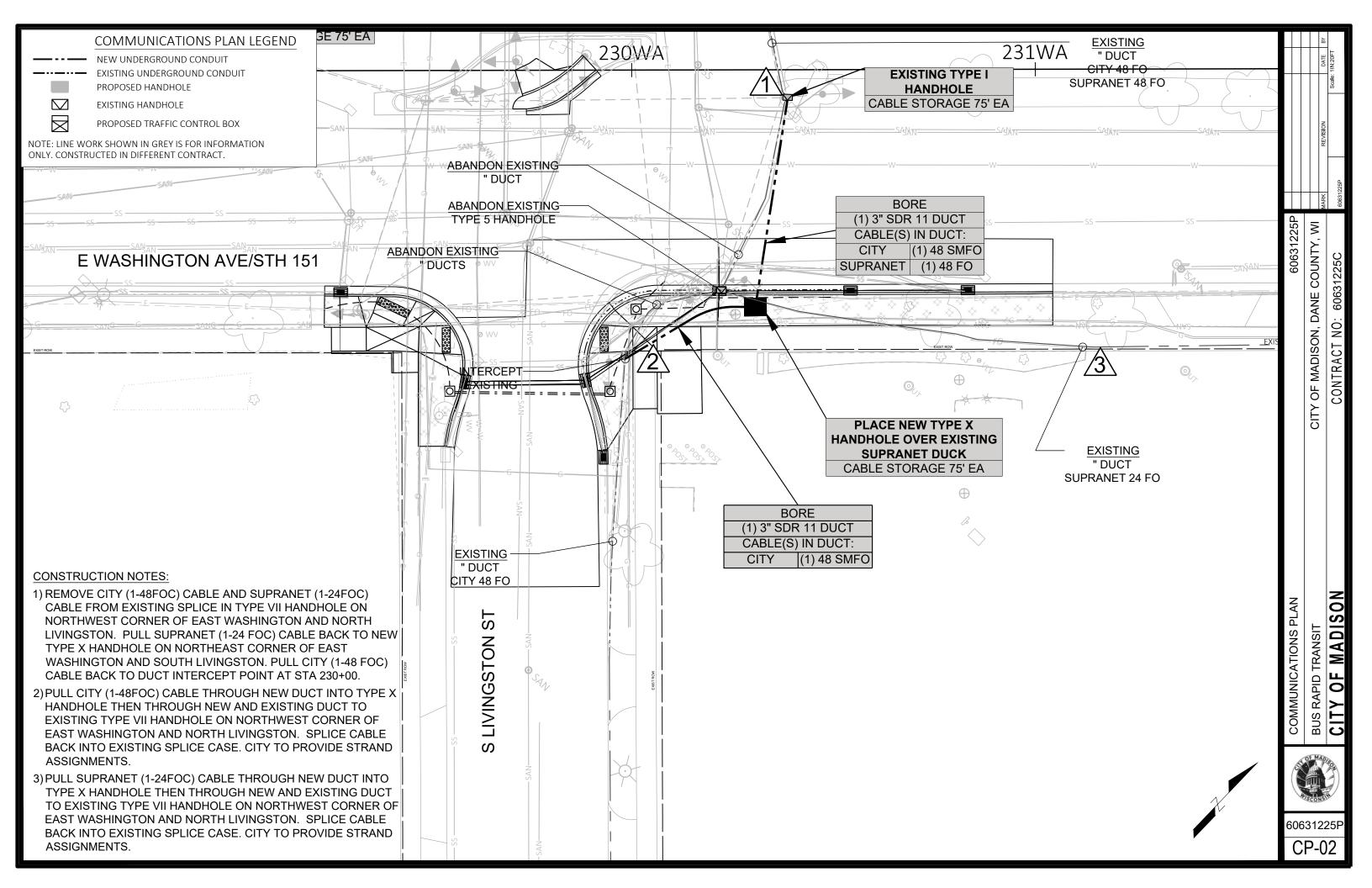
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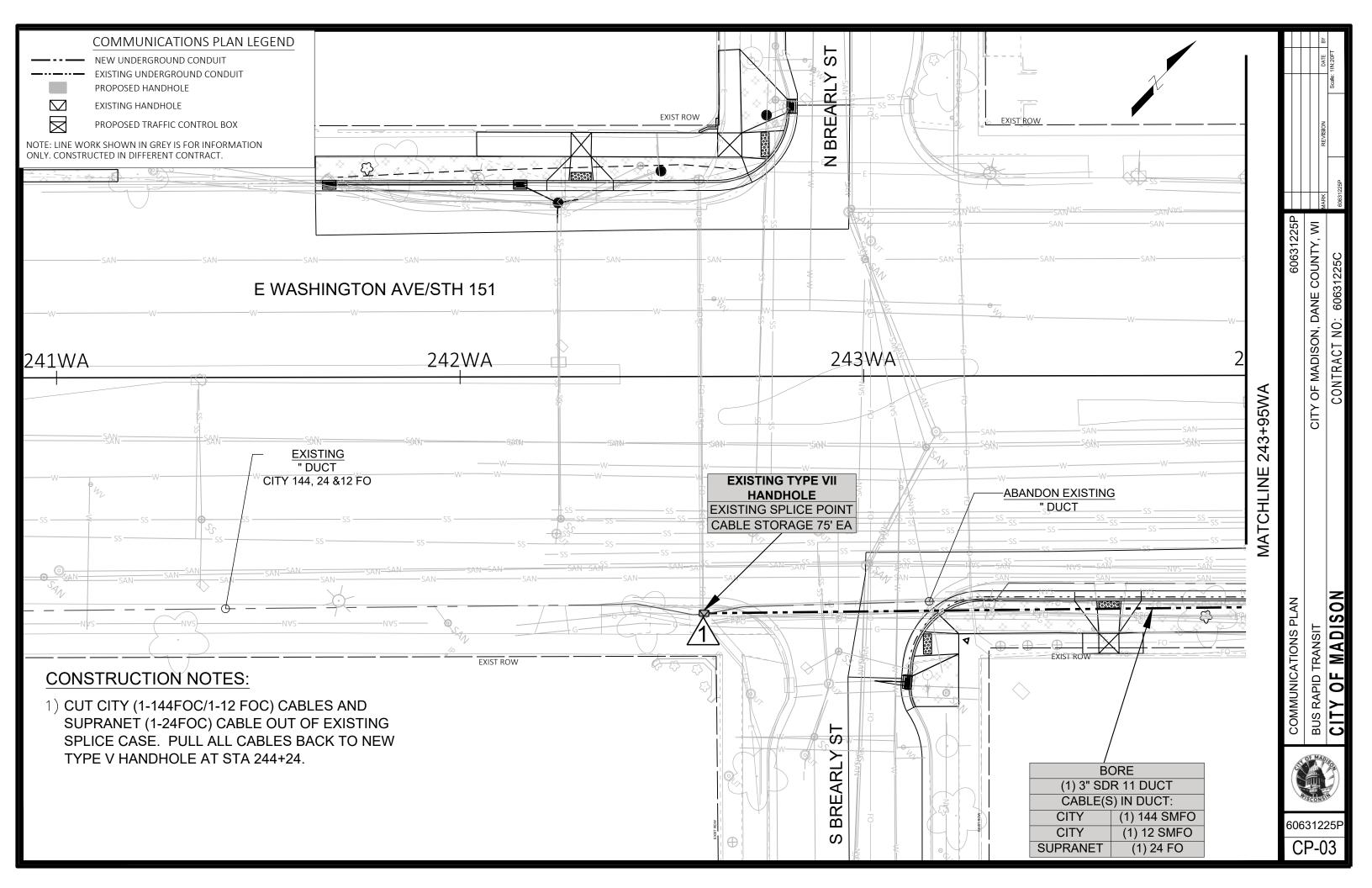
C:\PWWORKING\AECOM_DS20_NA_2019\TYLER.TKACHUK@AE LAYOUT NAME - 023652_lp

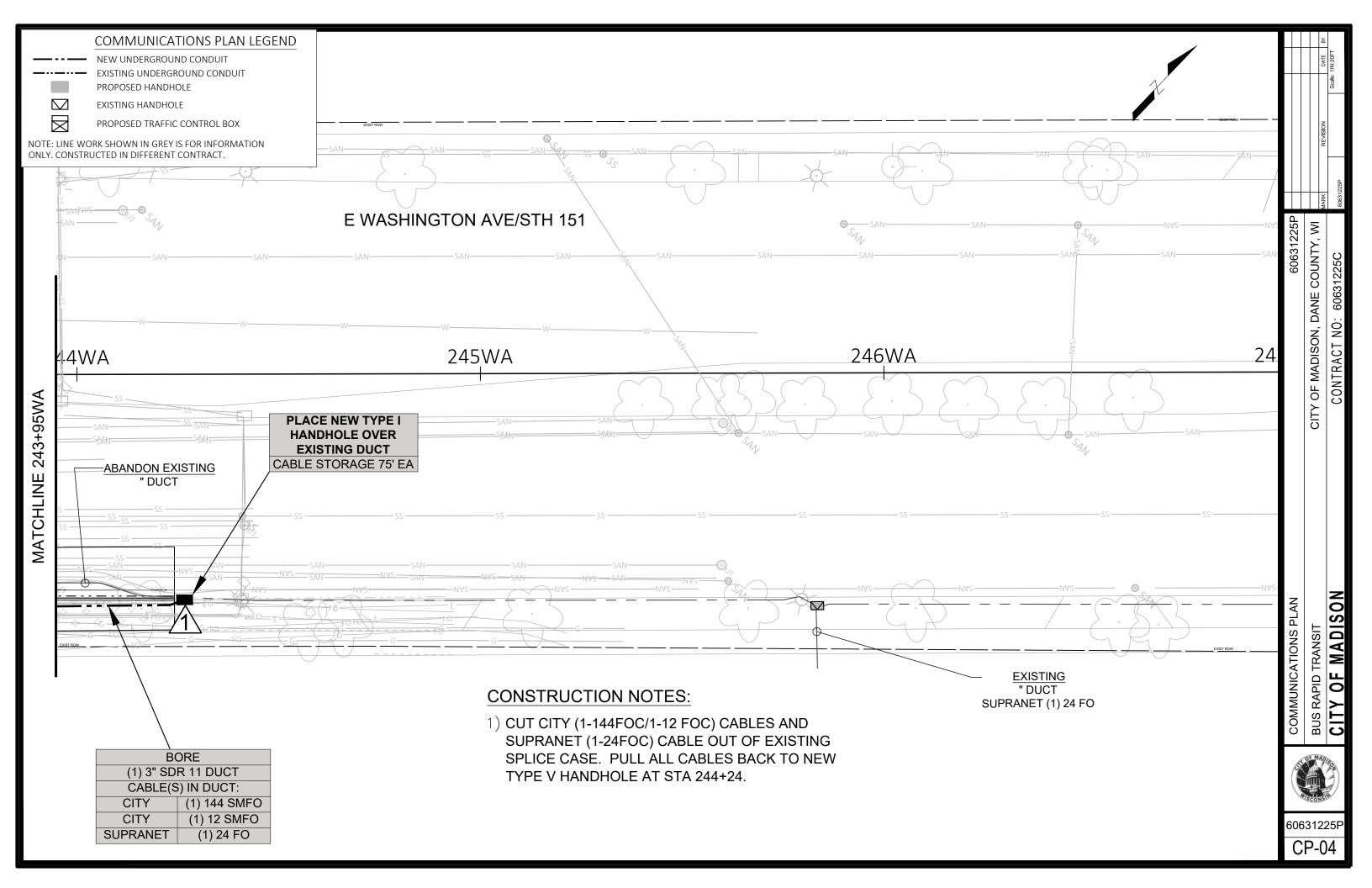
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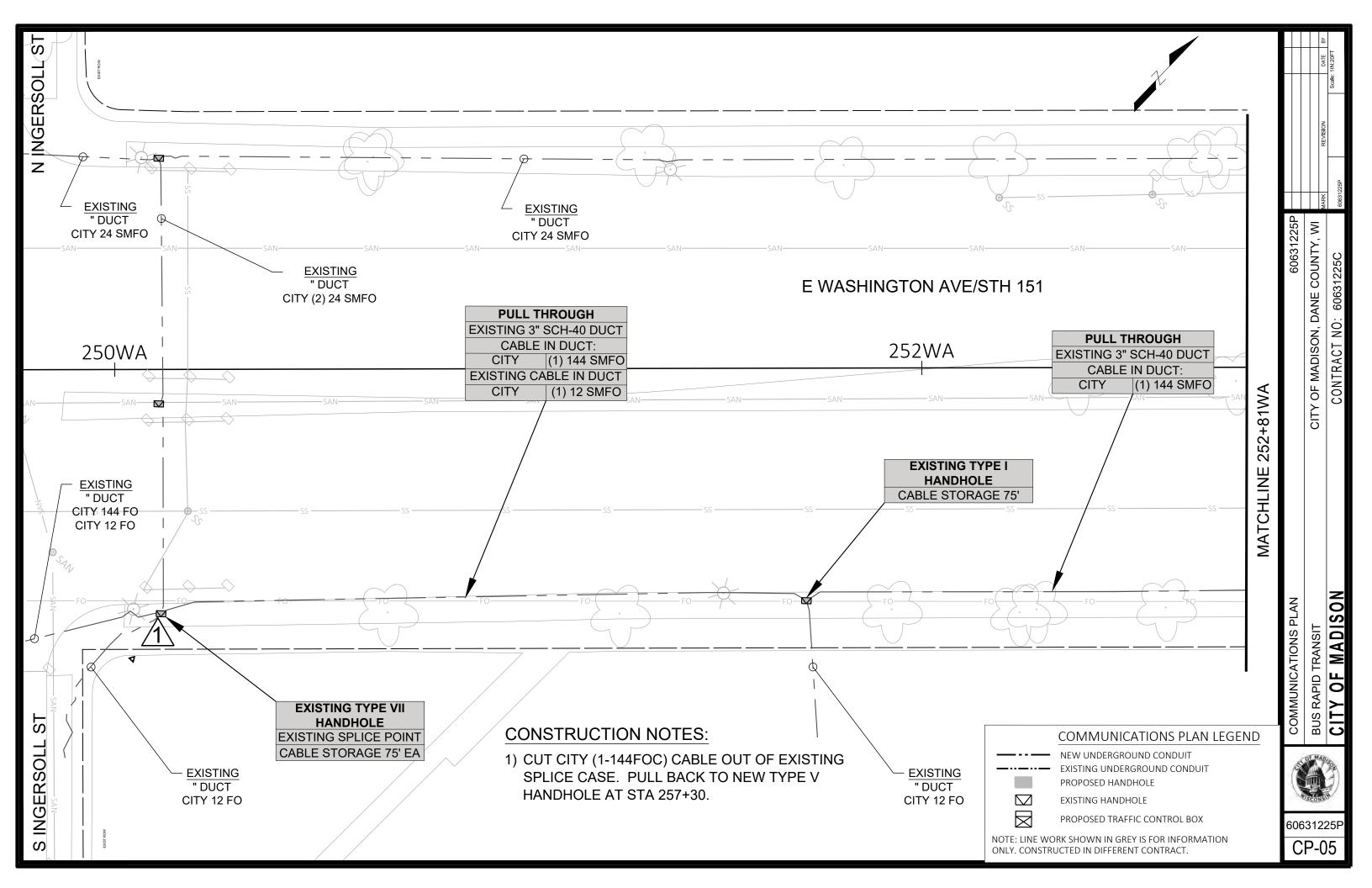


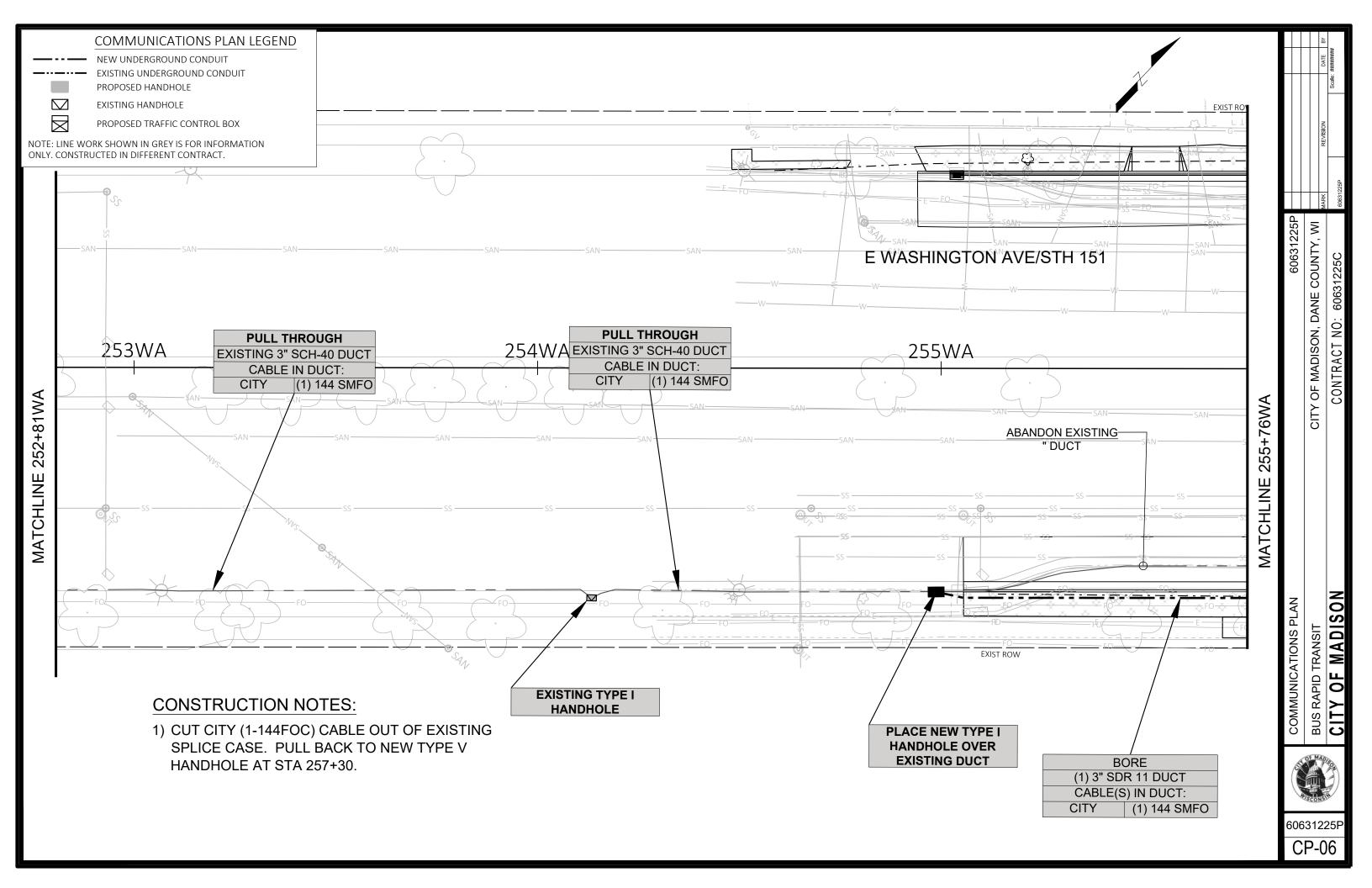


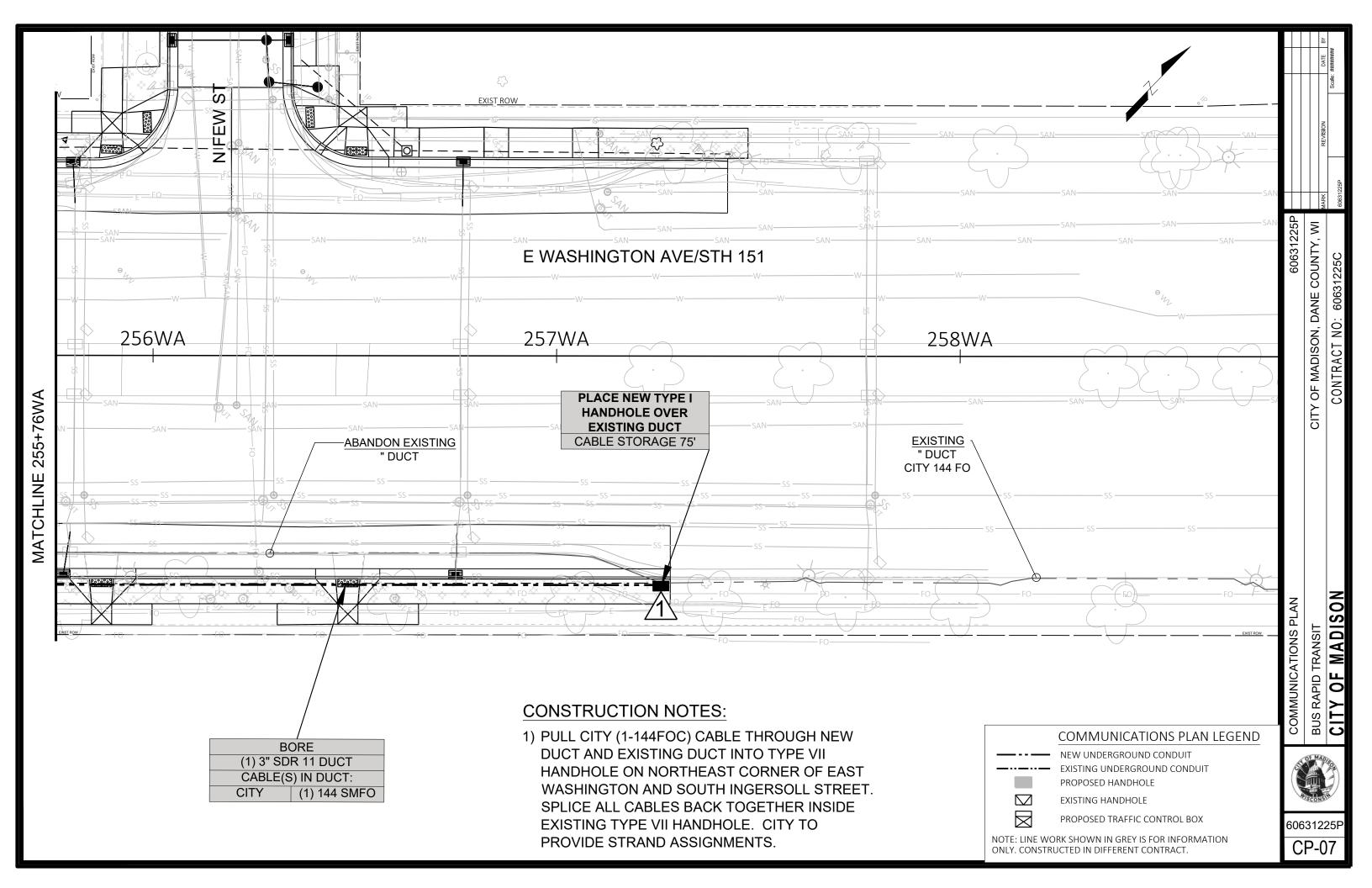


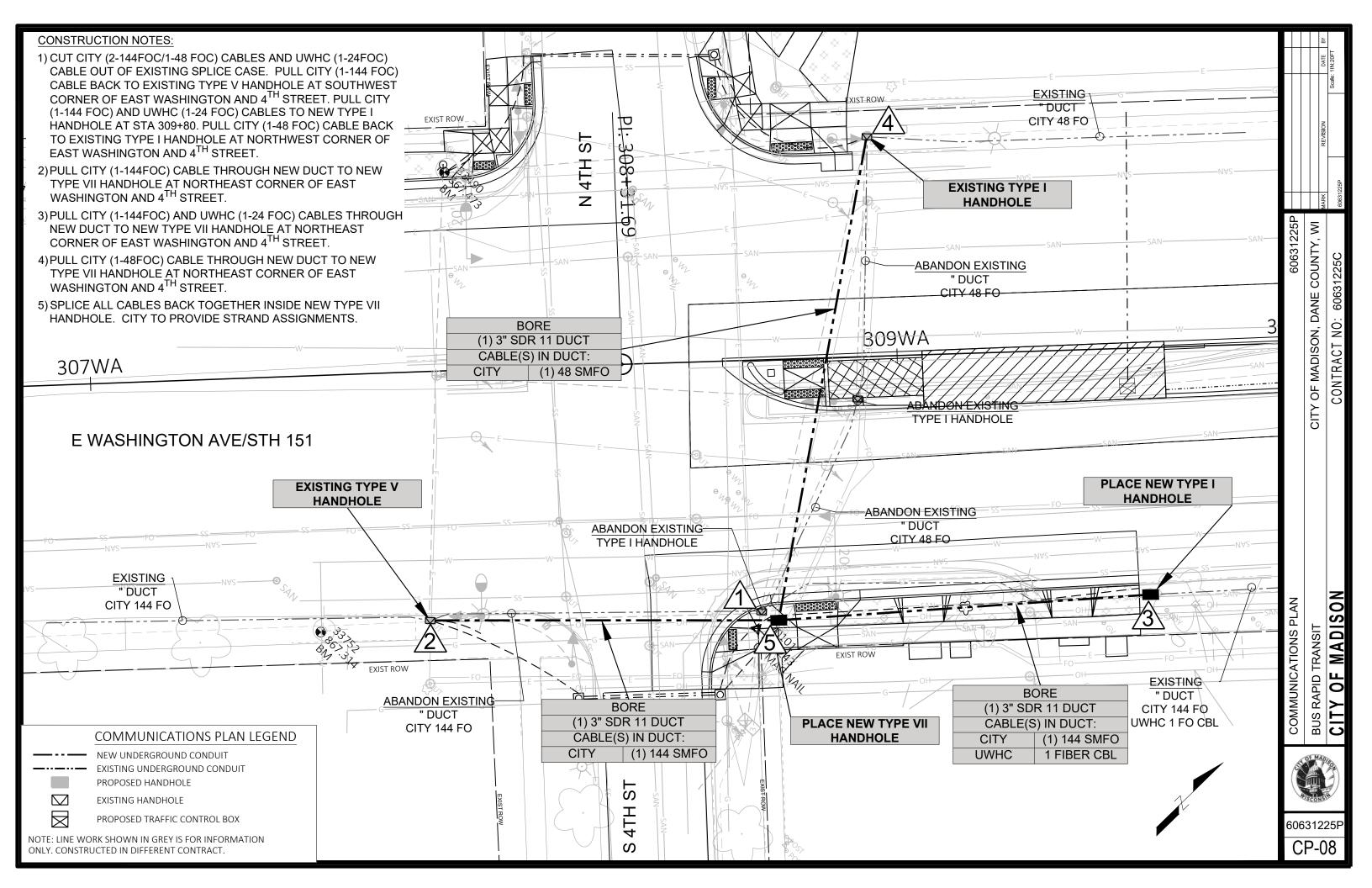












MAINTENANCE OF TRAFFIC GENERAL NOTES:

- THE MAINTENANCE OF TRAFFIC PLANS ARE INTENDED TO SERVE AS A GUIDE AND MAY BE MODIFIED BASED ON FIELD CONDITIONS WITHOUT IMPACTING THE SAFETY OF VEHICLES, BICYCLISTS, PEDESTRIANS AND WORKERS, WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER. WHEN WORK COMMENCES, THE CONTRACTOR SHALL ASSUME THE MAINTENANCE OF ANY PAVEMENT. DRAINAGE FACILITIES, TRAFFIC CONTROL SIGNS, TRAFFIC SIGNALS, LIGHTING, PAVEMENT MARKINGS, AND OTHER APPURTENANCES OF ROADWAYS WITHIN THE LIMITS OF THE CONTRACT.
- ALL EXISTING SIGNS THAT CONFLICT WITH THE MAINTENANCE OF TRAFFIC OPERATIONS SHALL BE COVERED OR REMOVED AFTER APPROVAL FROM THE CITY TRAFFIC ENGINEER. THIS WORK SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CITY. ALL TEMPORARY SIGNS SHALL MEET CITY OF MADISON STANDARDS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES REGARDING LOCATION, TYPE, SIZE, NUMBER, AND DURATION.
- THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH TRAFFIC CONTROL PLAN STAGING OPERATIONS. REMOVAL OF PAVEMENT MARKINGS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE PERFORMED AT NO COST TO THE CITY.
- ALL SIGN ASSEMBLIES SHALL BE CERTIFIED BY THE CONTRACTOR AS MEETING THE APPLICABLE REQUIREMENTS OF NCHRP REPORT 350, TEST LEVEL 3 AND SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS ADJACENT TO WORK AREAS TO ASSESS NEEDS FOR ACCESS AND SHALL PROVIDE MEANS FOR PARKING ACCESS, UTILITY ACCESS, EMERGENCY ACCESS AND PEDESTRIAN ACCESS AS NECESSARY.
- DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES AND ADJACENT PROPERTY FROM DEBRIS BLOWN OR OTHERWISE REMOVED FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF THE TRAVELED LANE SURFACES. THIS WORK SHALL BE INCLUDED IN THE COST OF THE "643.5000 TRAFFIC CONTROL" PAY ITEM.
- THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT AGAINST THE FLOW OF TRAFFIC. THESE VEHICLES SHALL ENTER AND LEAVE WORK AREAS IN A MANNER THAT WILL NOT BE HAZARDOUS TO OR INTERFERE WITH NORMAL TRAFFIC.
- ALL CONTRACTOR SUPPLIED TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE IN GOOD CONDITION AND SHALL BE SUBJECT TO APPROVAL OF THE CITY TRAFFIC ENGINEER.
- ALL CURBSIDE WORK IS TO BE COORDINATED WITH ADJACENT BUSINESSES. PROVIDE A MINIMUM OF 48 HOUR NOTICE PRIOR TO WORKING IN FRONT OF
- 10. PEDESTRIAN ACCESS TO ALL BUSINESSES, BUS STOPS, AND ADJACENT PROPERTIES MUST BE MAINTAINED AT ALL TIMES.
- INSTALL TEMPORARY RAMPS FOR USE BY PEDESTRIANS WHEN REPLACING EXISTING RAMPS. TEMPORARY RAMPS SHALL BE PAID FOR SEPARATELY DEPENDENT ON THE 11 TYPE OF MATERIAL USED, I.E. ASPHALT, PLYWOOD, PLATE, ETC.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY LANDSCAPING RESTORATION IN DAMAGE RESULTING FROM THE PLACEMENT OF TEMPORARY TRAFFIC CONTROL 12. DEVICES OR FOLIPMENT OUTSIDE THE CONSTRUCTION LIMITS.
- TRAFFIC CONDITIONS, CRASHES, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE CITY TRAFFIC ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE CITY TRAFFIC ENGINEER WITHOUT DELAY. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF THE MAINTENANCE OF TRAFFIC ITEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR IS DIRECTED TO THE FACT THAT OTHER SEPARATE CONTRACTS ARE, OR MAY BE, IN FORCE THAT INTERSECT THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS IN THE PHASING AND PERFORMANCE OF THIS WORK SO AS NOT TO DELAY, INTERRUPT OR HINDER THE PROGRESS OR COMPLETION OF THE WORK BEING PERFORMED BY OTHER CONTRACTORS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS, NOR FOR ANY DELAYS OR INCONVENIENCES RESULTING FROM ACTIVITIES OF OTHER CONTRACTORS. SHOULD A CONFLICT ARISE BETWEEN CONTRACTORS WITH RESPECT TO SEQUENCE OF CONSTRUCTION OR MAINTENANCE OF TRAFFIC REQUIREMENTS, SAID CONFLICTS SHALL BE RESOLVED BY, OR AT THE DIRECTION OF, THE CITY TRAFFIC ENGINEER.
- THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY REQUESTS FOR CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGEMENT TEAM AT LEAST 72 HOURS PRIOR TO AN ACTUAL TRAFFIC CONTROL CHANGE. A REQUEST DOES NOT CONSTITUTE APPROVAL.
- WHERE REQUIRED, TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO DRUMS, BARRICADES, AND VERTICAL PANELS IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS. TYPE A WARNING LIGHTS SHALL BE INSTALLED ON ALL BARRICADES USED IN THE PROJECT PER STATE OF WISCONSIN SDD 15C2-4B. CONTRACTOR SHALL ALSO PLACE TYPE C WARNING LIGHTS ON ANY BARRELS USED TO TAPER TRAFFIC OR LANE CLOSURES. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY. CLEANING SHALL BE CONSIDERED INCIDENTAL TO THE "643.5000 TRAFFIC CONTROL" PAY ITEM.
- NIGHT OPERATIONS: WHEN ARTIFICIAL LIGHTING IS UTILIZED DURING NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AS WELL AS THE ADJOINING BUSINESSES AND RESIDENTIAL AREAS.
- WHEN LANES CLOSURES ARE EXPECTED TO EXTEND INTO DARKNESS, TYPE II BARRICADES WITH STEADY-BURNING TYPE C LIGHTS SHALL BE SUBSTITUTED
- THE ADJACENT LANE SHALL BE CLOSED WHEN WORK IS PERFORMED OR ANY PERSON, EQUIPMENT, OR MATERIAL IS WITHIN 2 FEET FROM THE EDGE OF AN ACTIVE TRAVELED LANE.
- SIGN PLACEMENT SHOULD CONFORM TO THE FOLLOWING GUIDELINES WHEREVER POSSIBLE: (A) TEMPORARY SIGNS OR SIGNS MOUNTED ON BARRICADES A MINIMUM OF 2 FEET FROM THE ADJACENT TRAVEL LANE AND A MINIMUM OF 2 FEET ABOVE THE PAVEMENT ELEVATION. (B) POST-MOUNTED SIGNS A MINIMUM OF 2 FEET FROM THE EDGE OF SHOULDER OR FACE OF CURB AND A MINIMUM OF 7 FEET ABOVE THE PAVEMENT. (C) SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS AT A MINIMUM OF 5' ABOVE THE PAVEMENT.
- CONTRACTOR/DEVELOPER SHALL NOTIFY TOM MOHR OF CITY TRAFFIC ENGINEERING AT (608) 267-8725 AT LEAST 10 WORKING DAYS PRIOR TO THE START OF ANY LANE CLOSURE. WORK WITHIN THE RIGHT-OF-WAY SHALL NOT BEGIN UNTIL THE TRAFFIC CONTROL PLAN IS PROVIDED.

- "MADISON METRO TRANSIT" BRANDED CONSTRUCTION SIGNS SHALL BE INSTALLED AT THE CONSTRUCTION PROJECT LIMITS OR AS DIRECTED BY THE CITY OF MADISON. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
- 23. THE CONTRACTOR IS ALERTED TO THE FOLLOWING PEAK HOUR RESTRICTIONS FOR TRAFFIC CONTROL STAGING OPERATIONS ALONG EAST WASHINGTON AVENUE. CONTACT TOM MOHR AT THE CITY OF MADISON TRAFFIC ENGINEERING AT (608) 267-8725 FOR ADDITIONAL INFORMATION AS NECESSARY.
 - * WESTBOUND (INBOUND) DIRECTION:
 - ALL LANES SHALL REMAIN OPEN DURING AM PEAK HOURS (7:00 AM TO 8:30 AM)
 - ALL LANES SHALL REMAIN OPEN DURING PM PEAK HOURS (4:00 PM TO 6:00 PM)
 - * EASTBOUND (OUTBOUND) DIRECTION:
 - SINGLE LANE CLOSURES ARE ALLOWED DURING AM PEAK HOURS (7:00 AM TO 8:30 AM)
 - ALL LANES SHALL REMAIN OPEN DURING PM PEAK HOURS (3:00 PM TO 6:00 PM)

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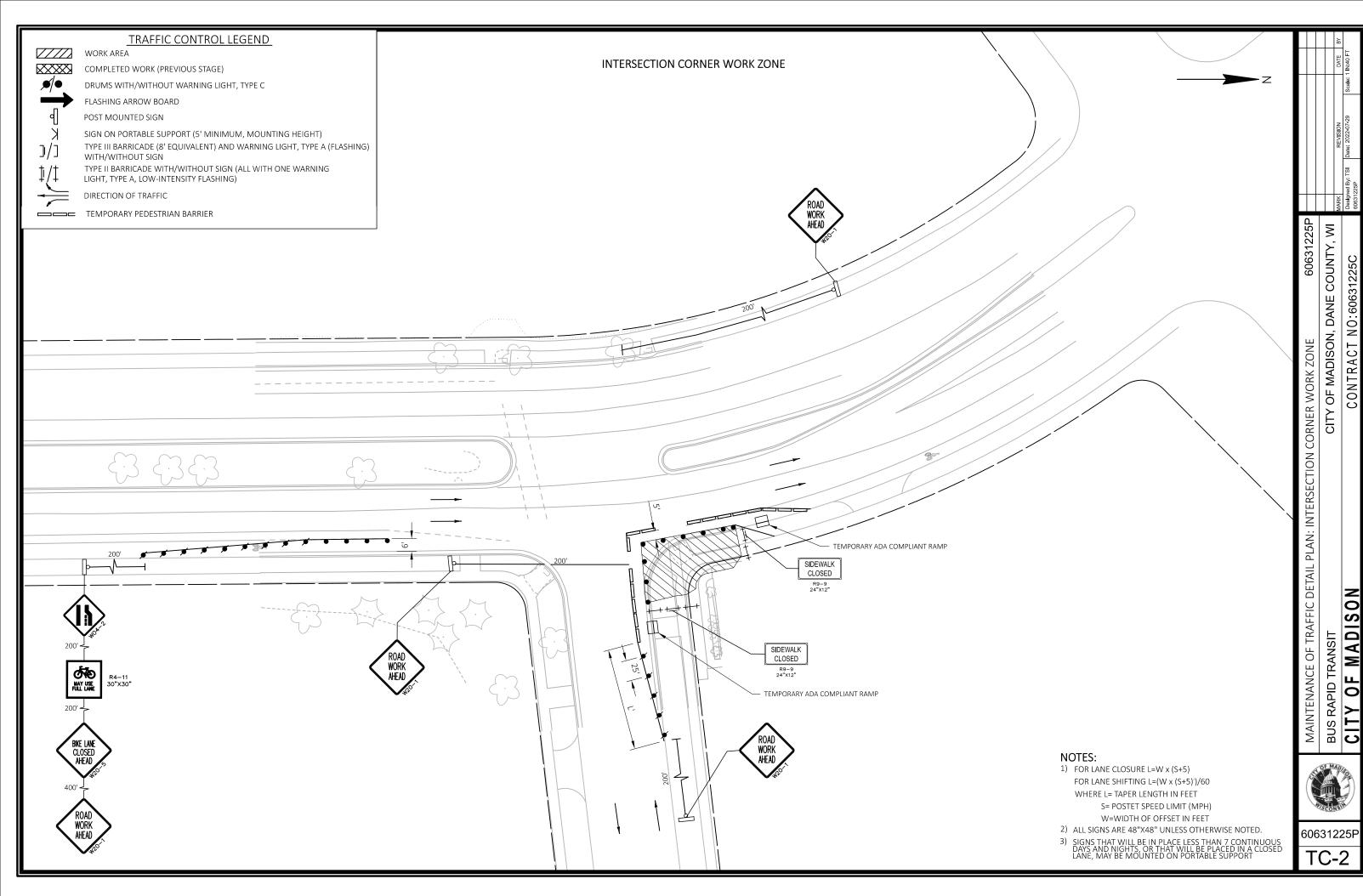
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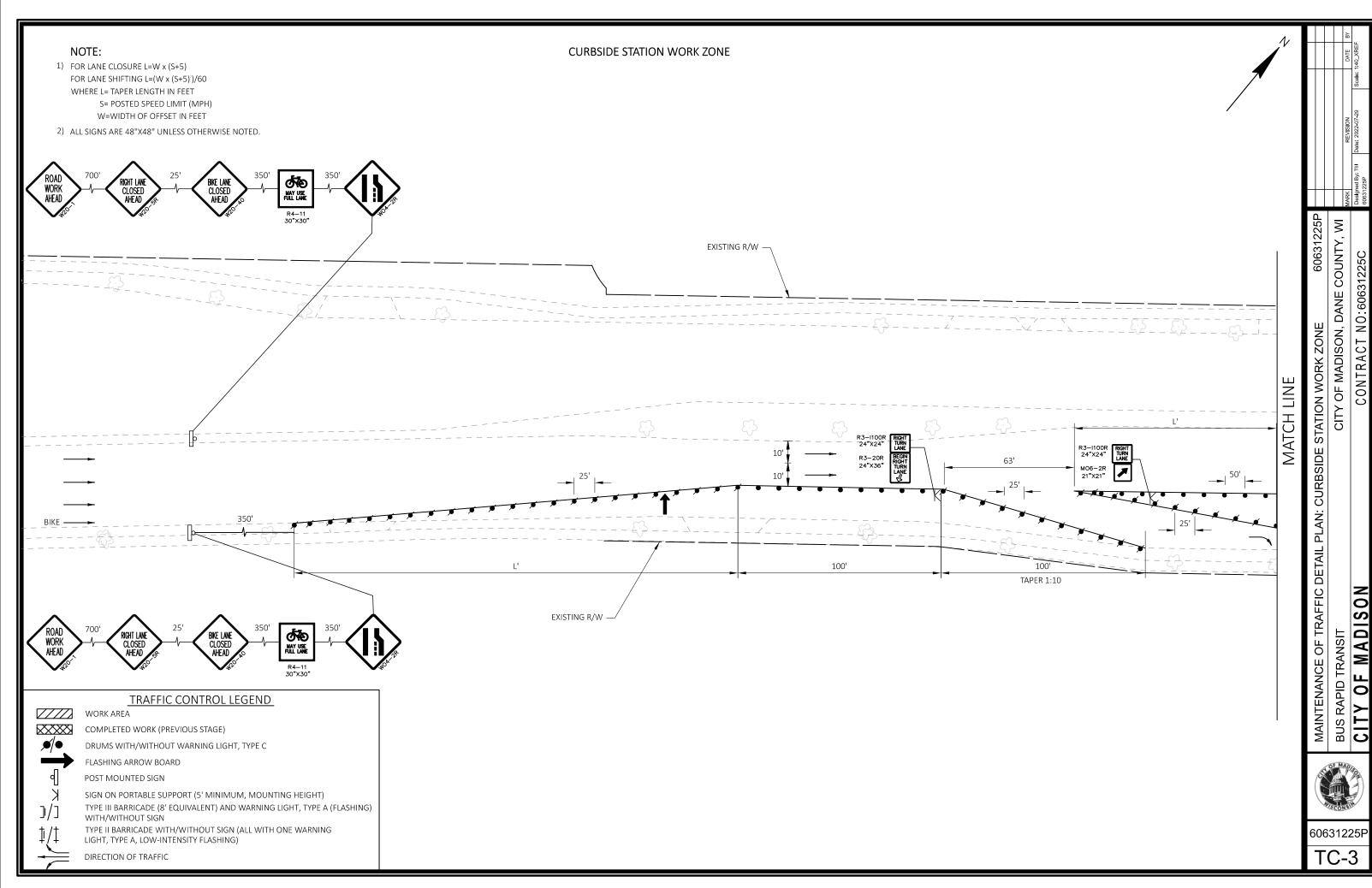
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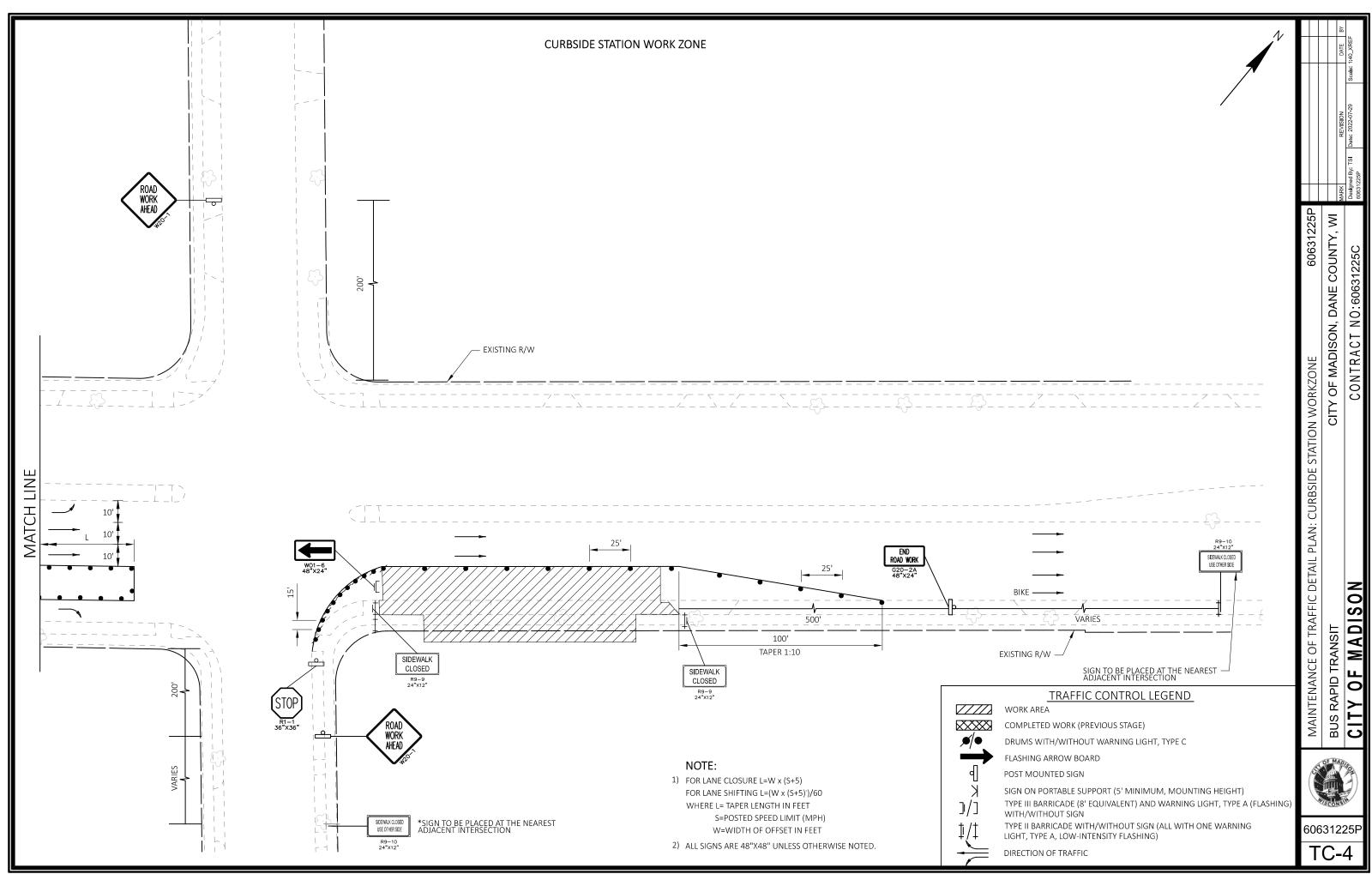
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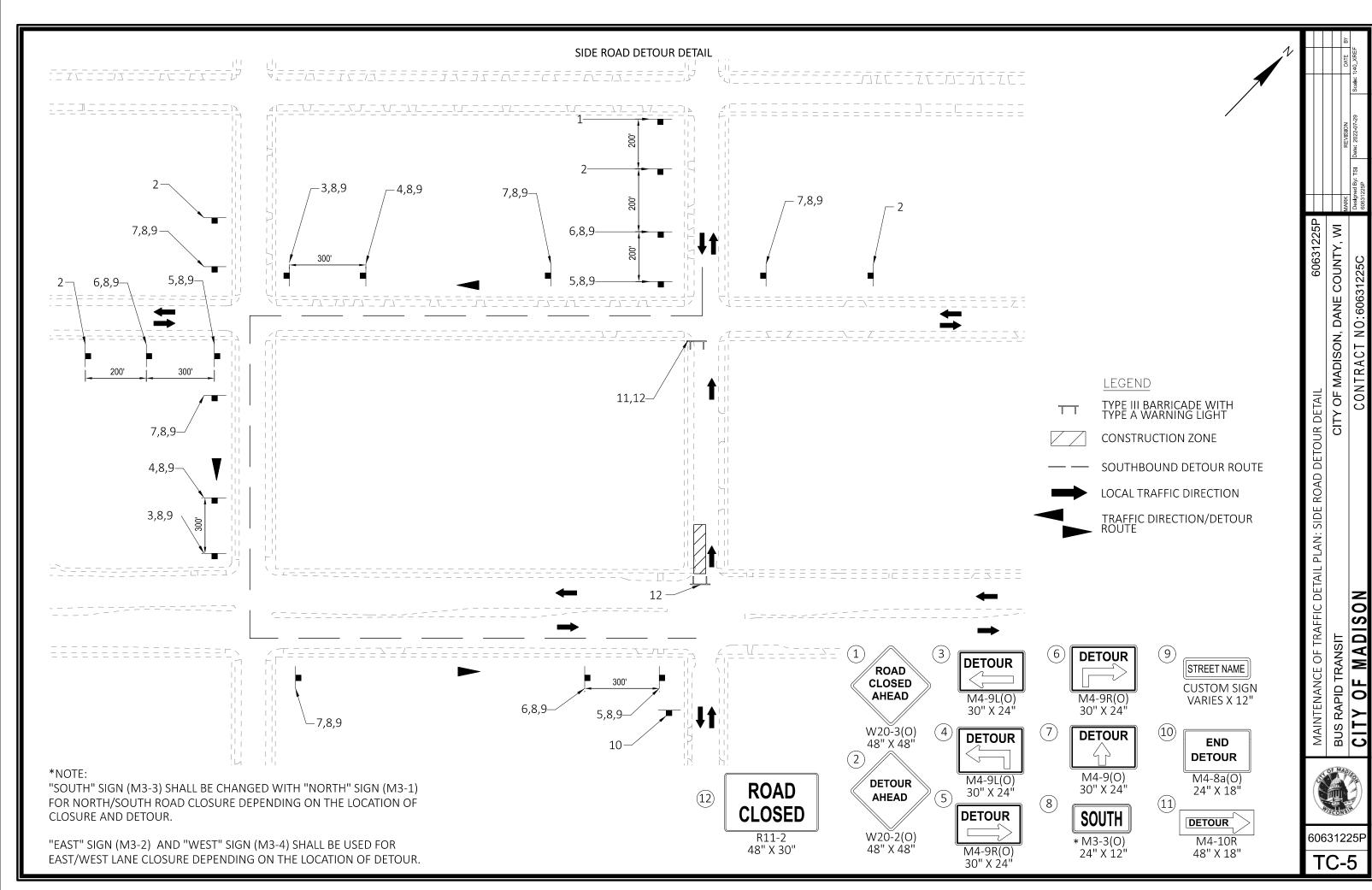
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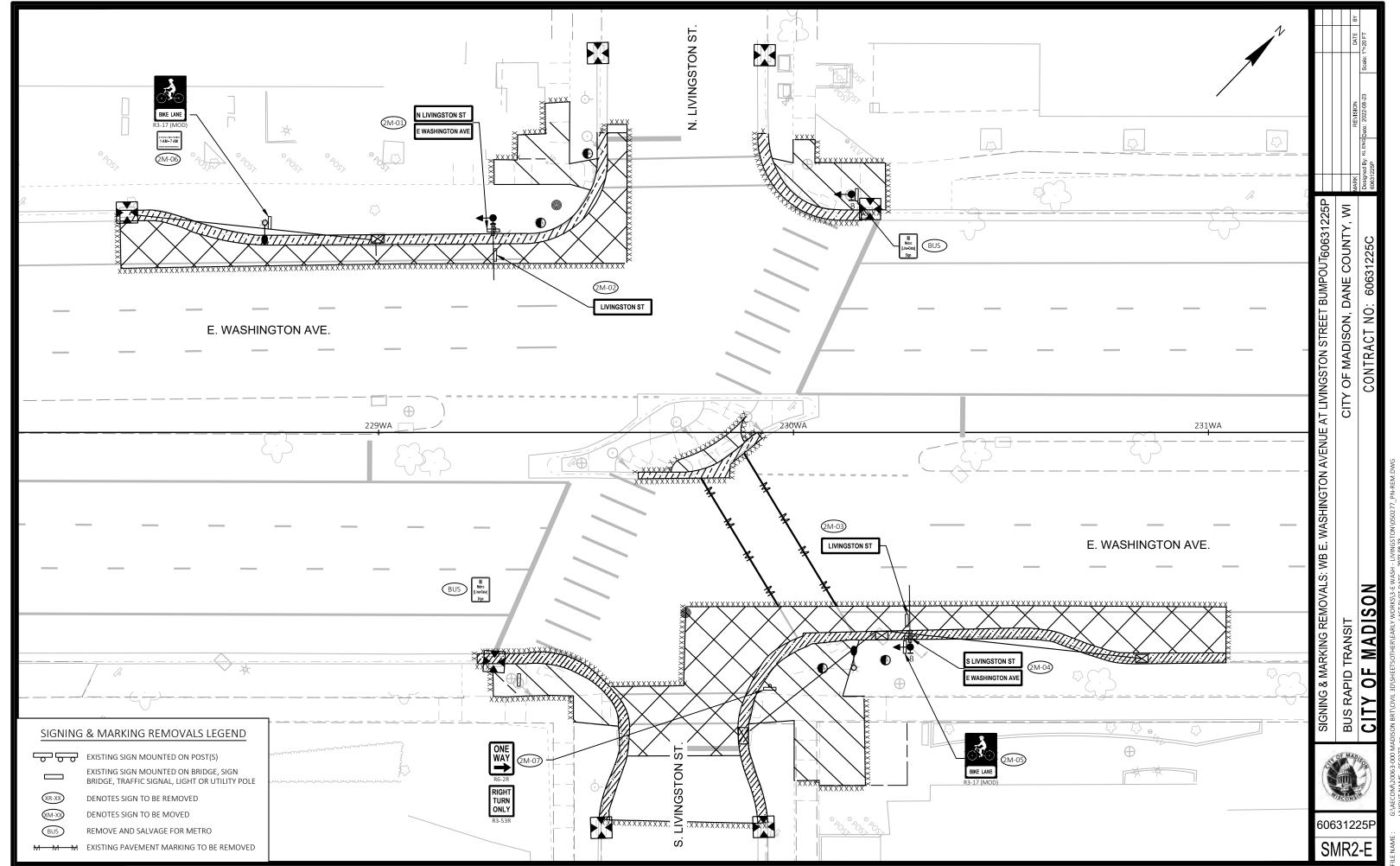


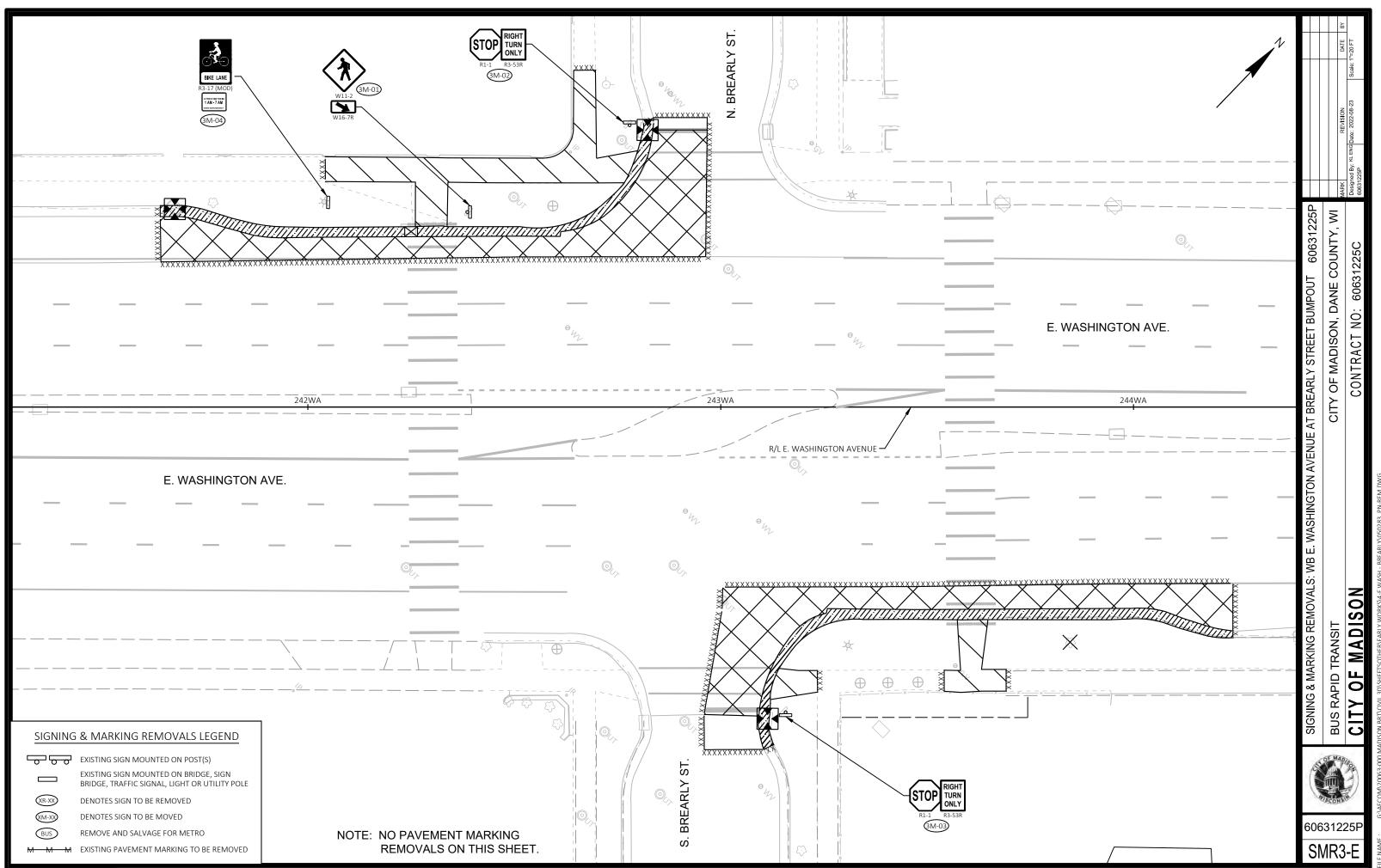


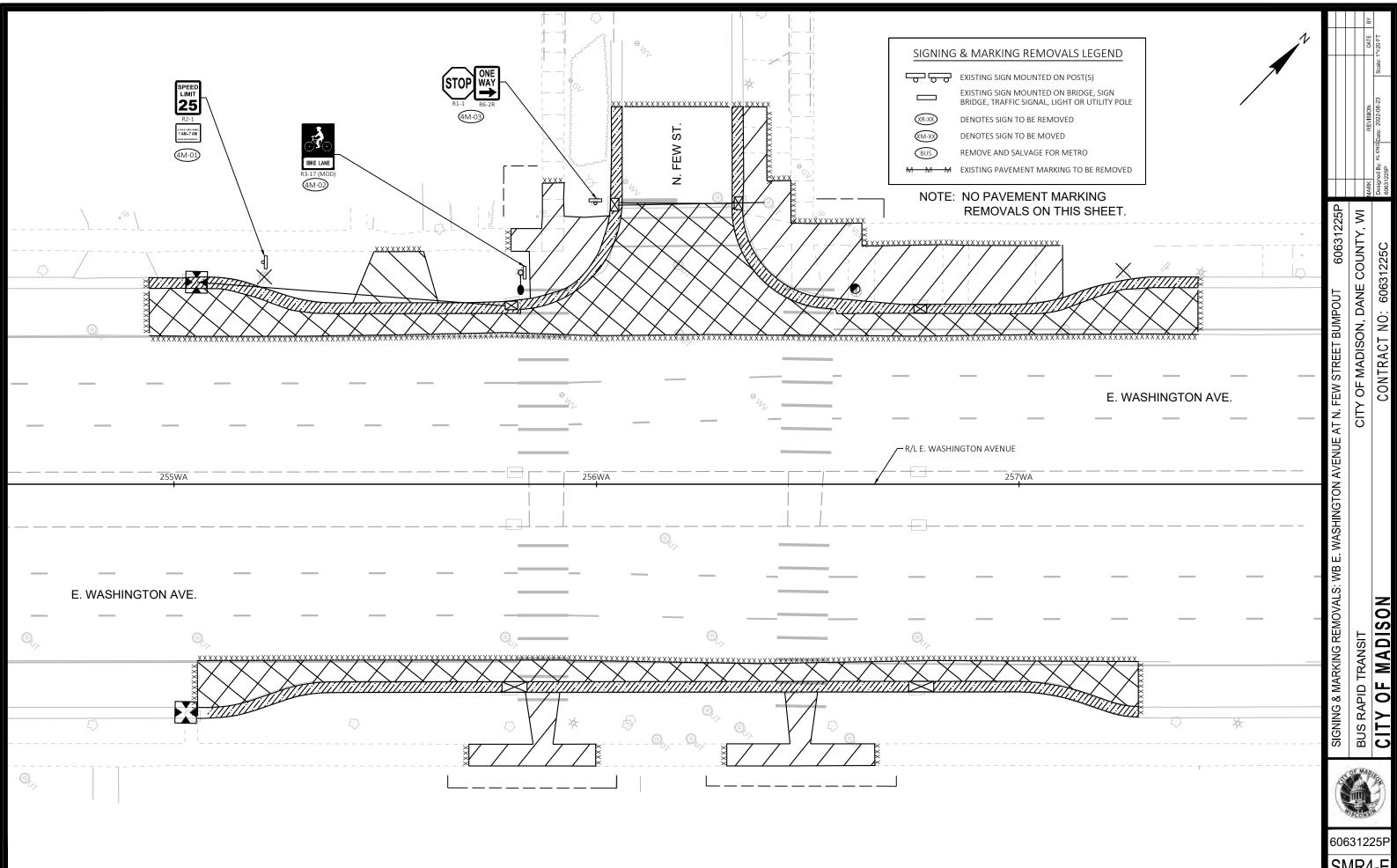
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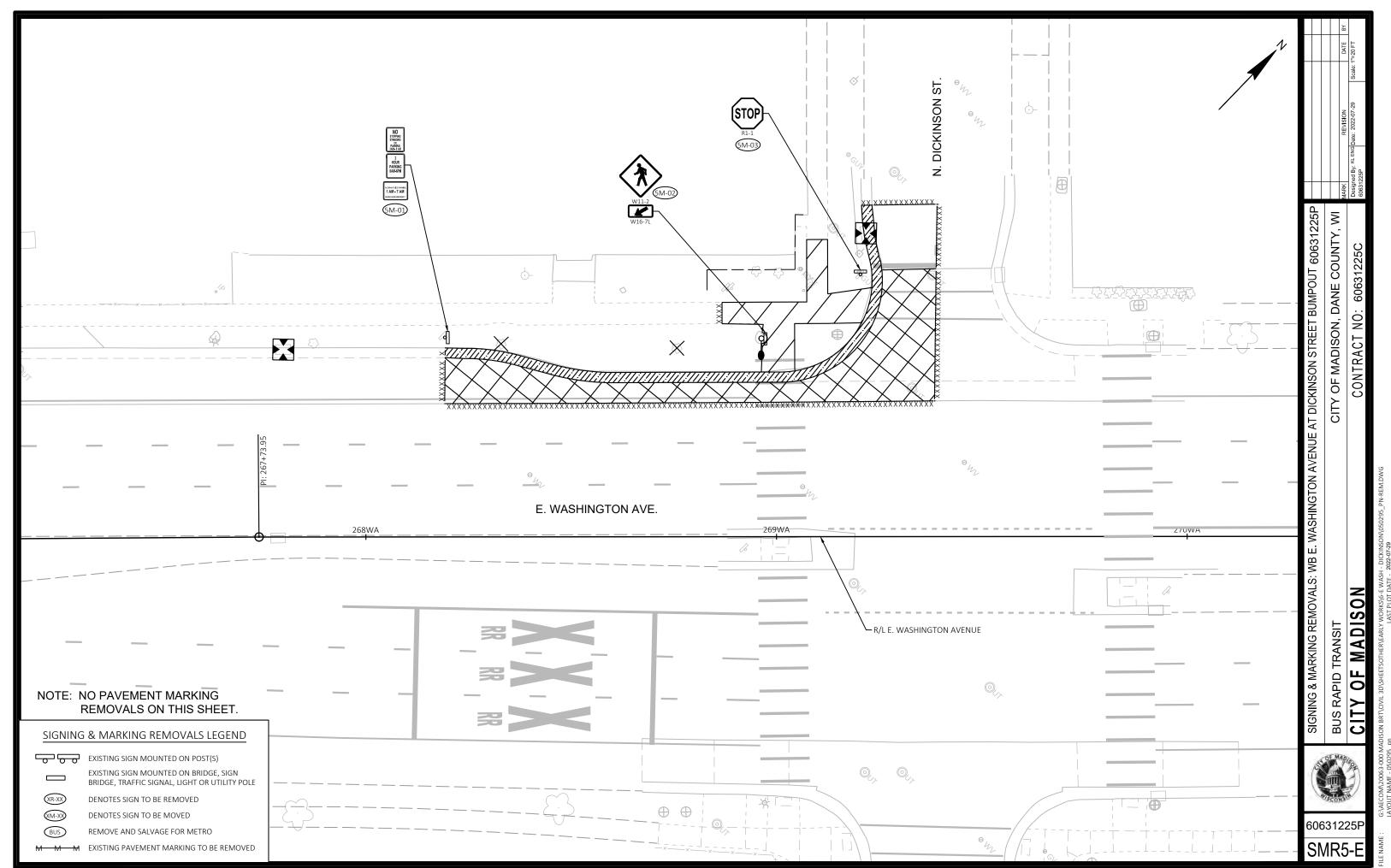
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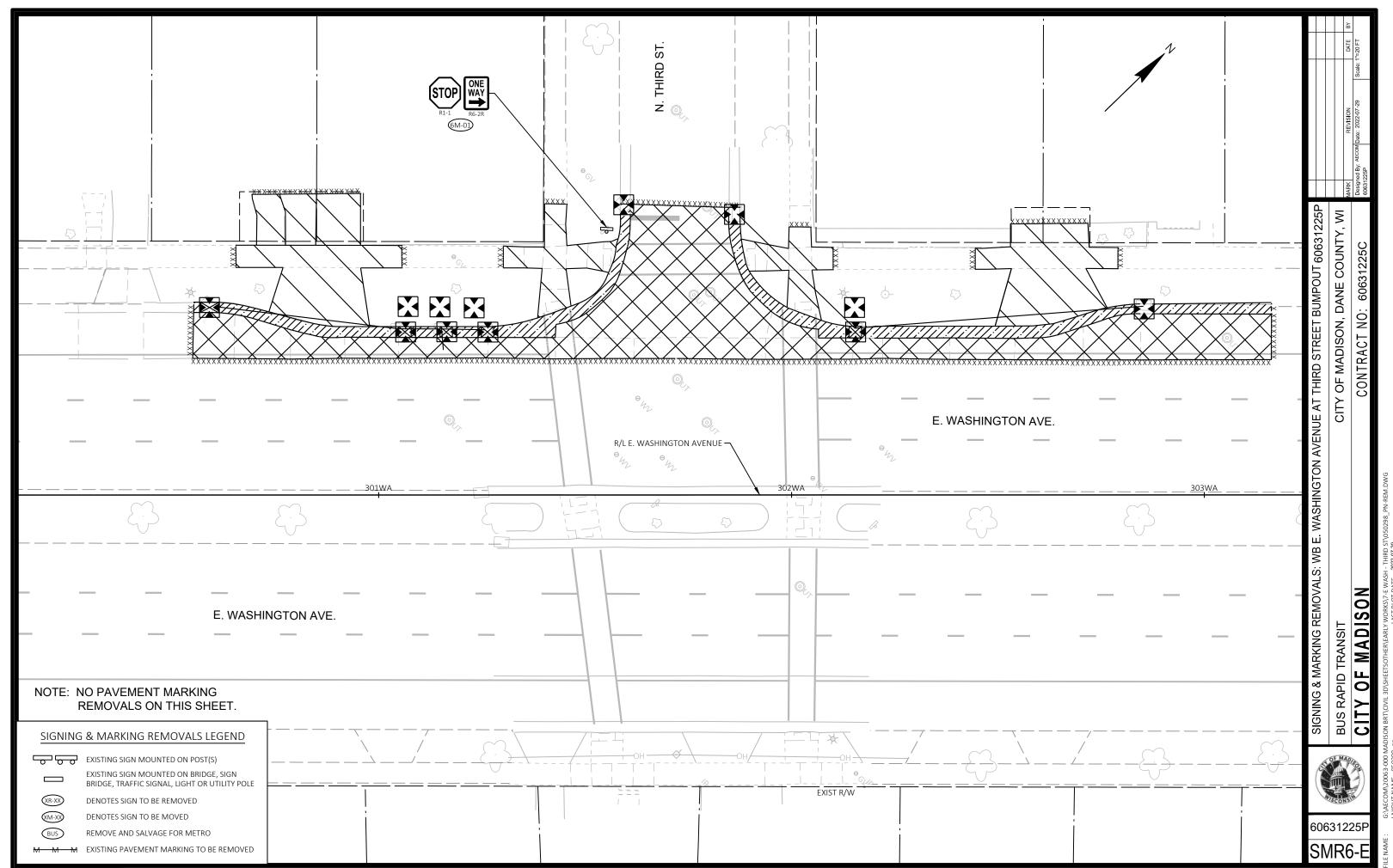
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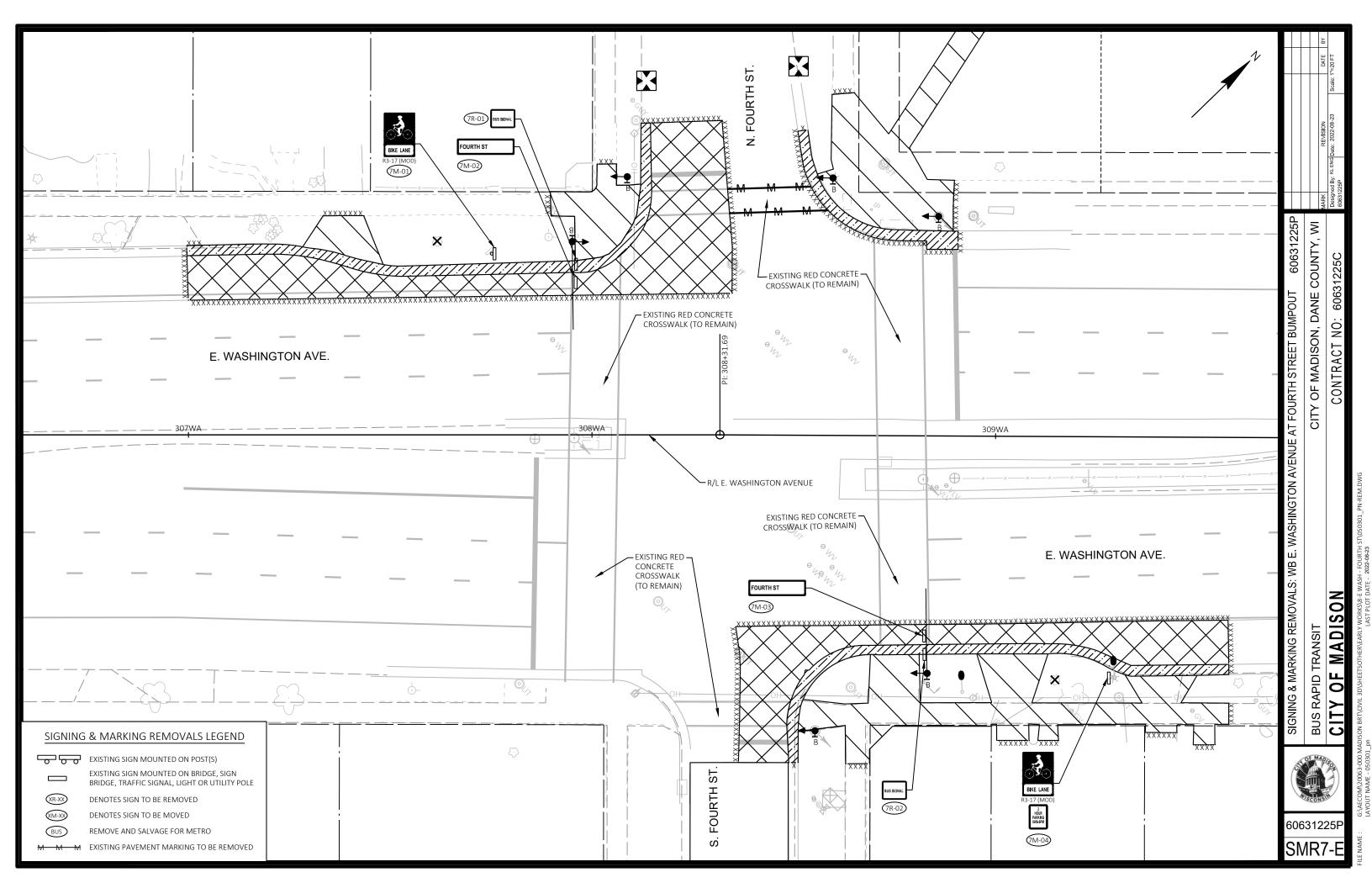




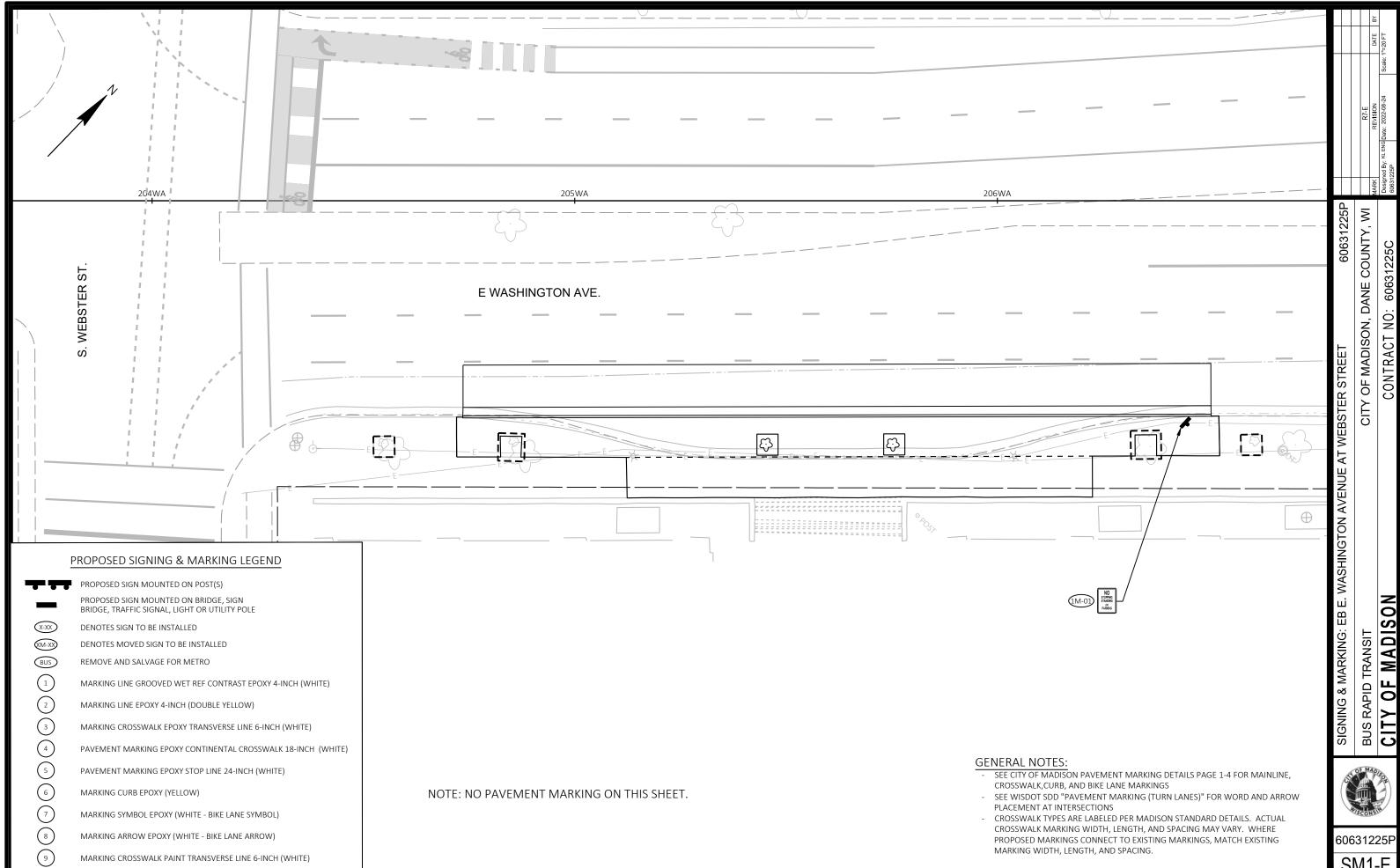


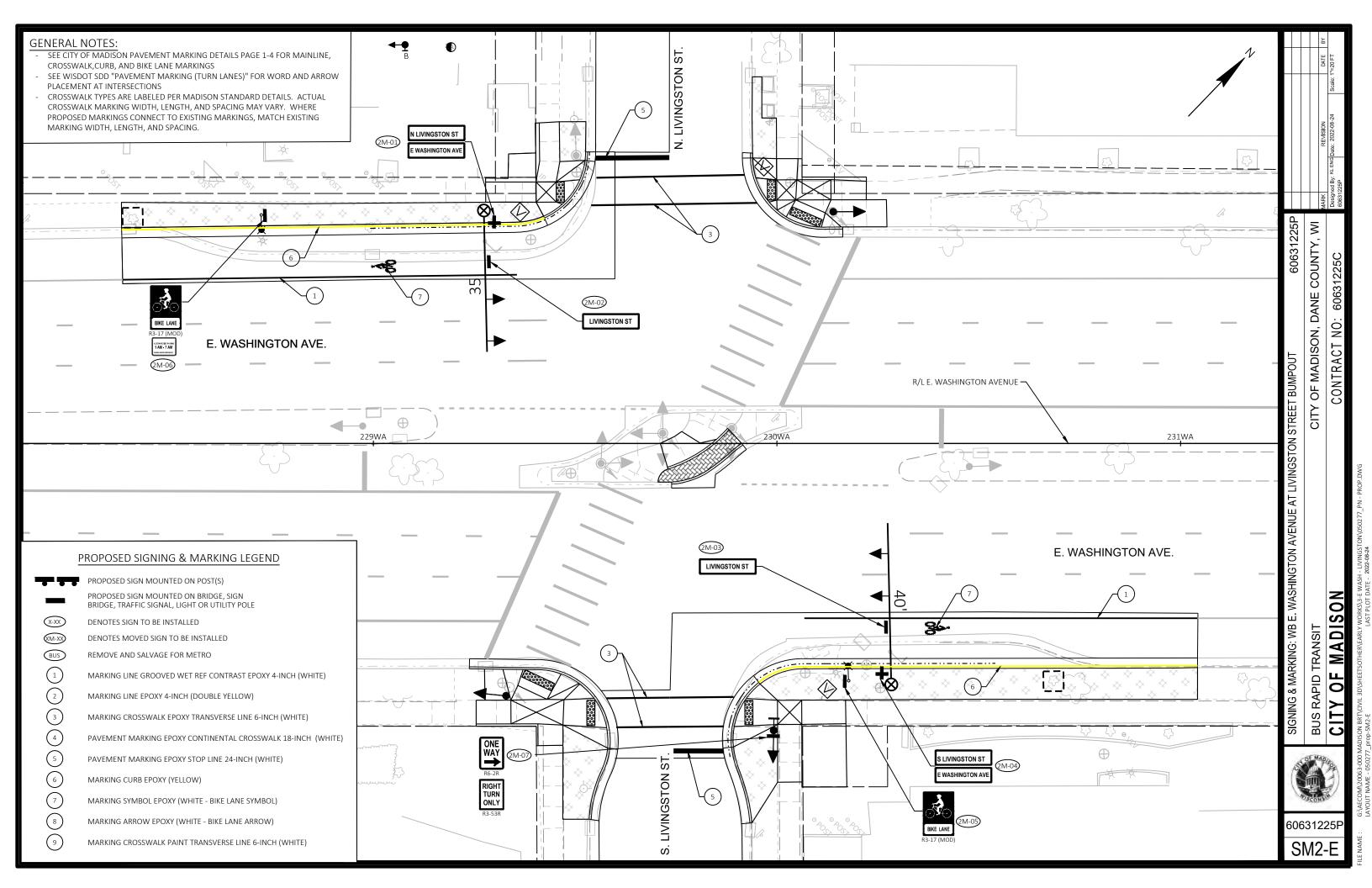


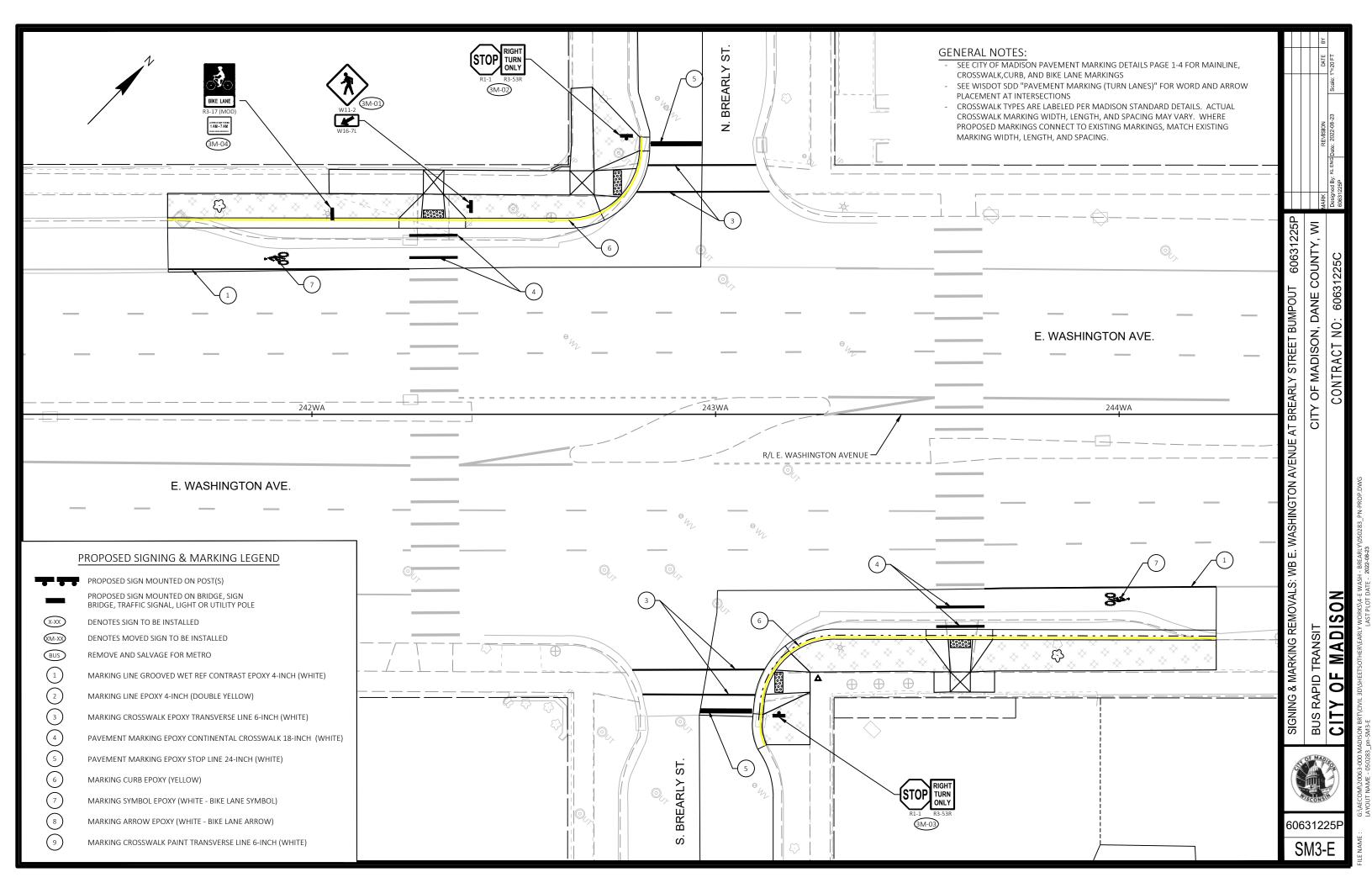


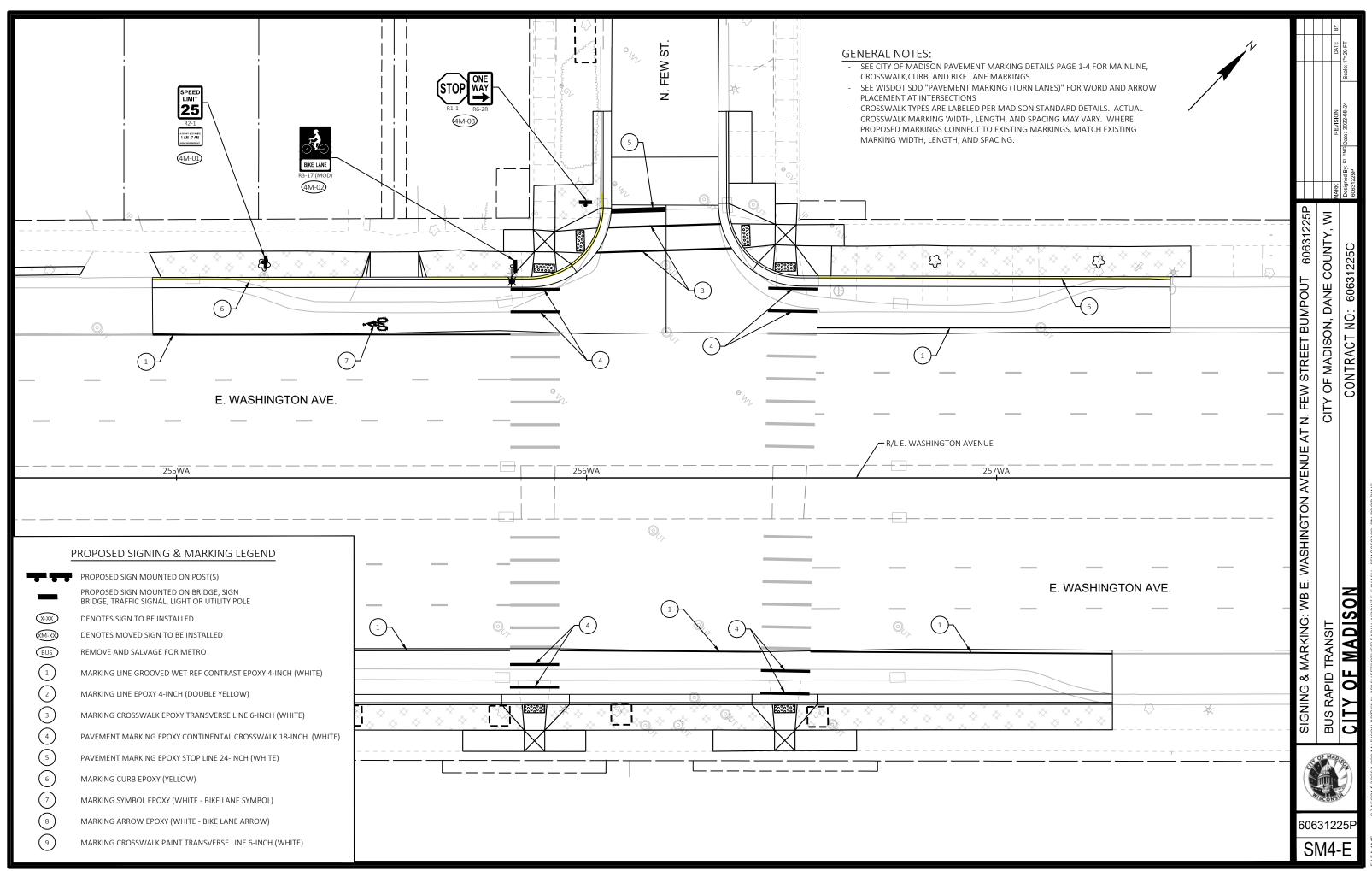


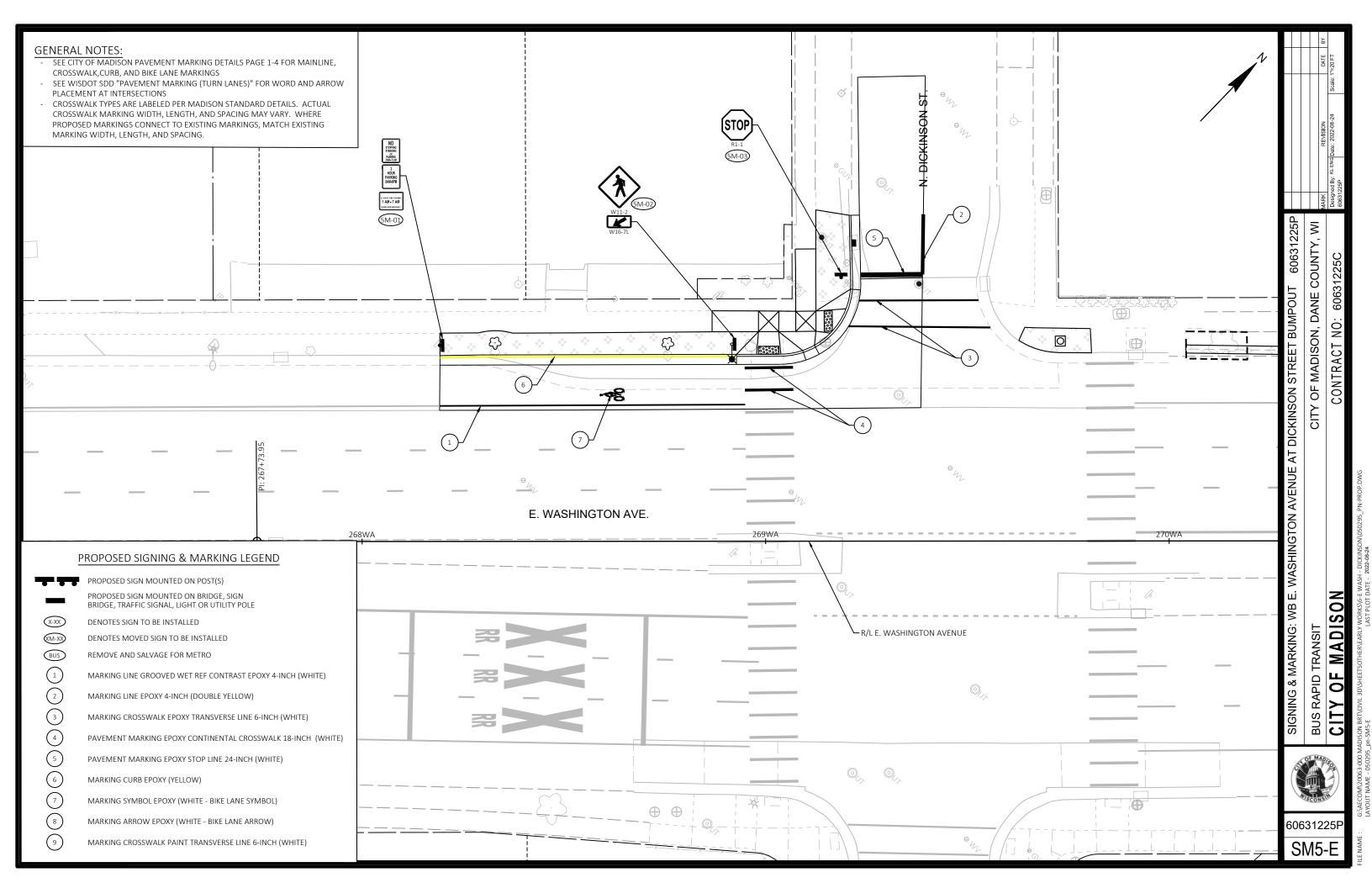
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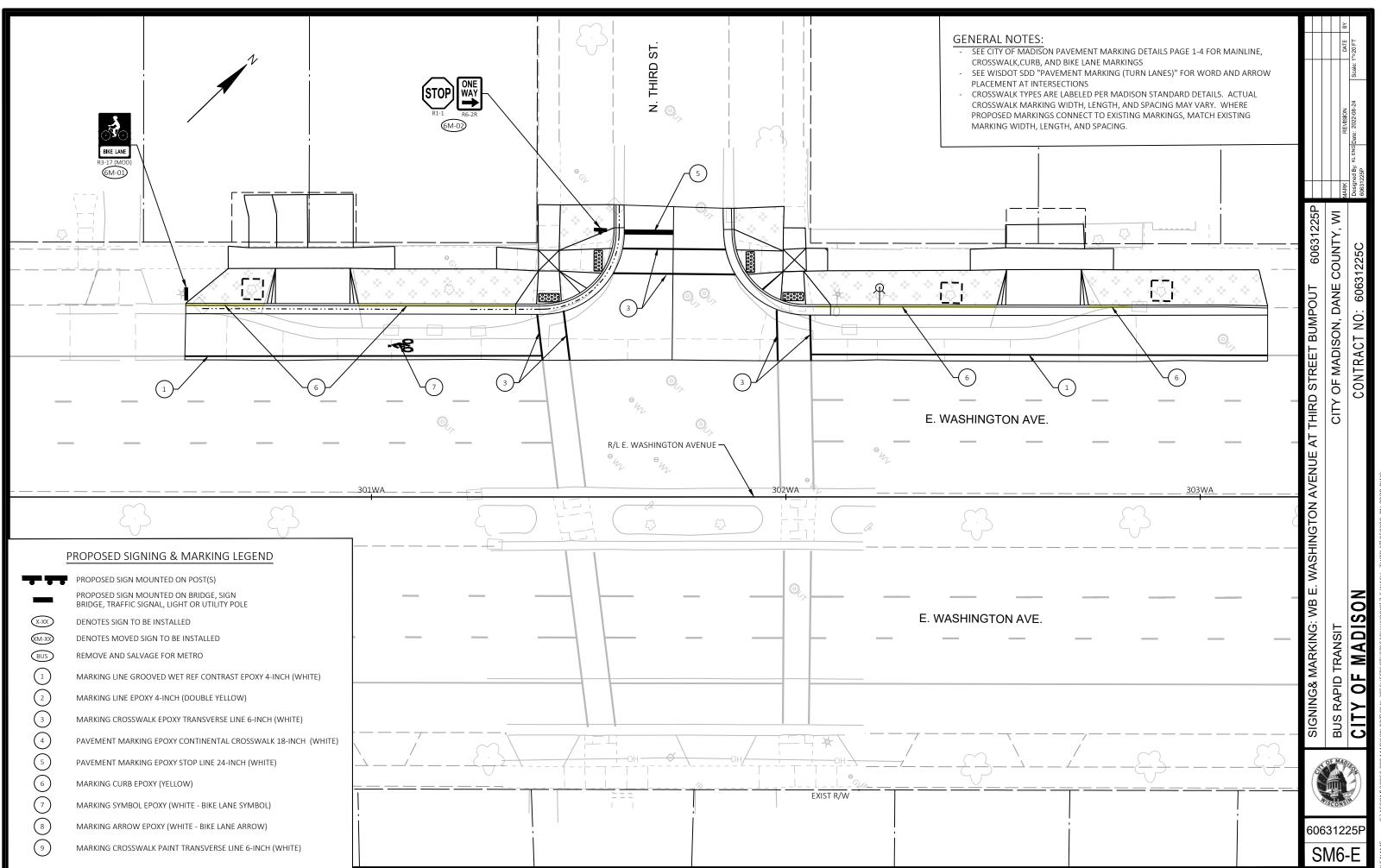


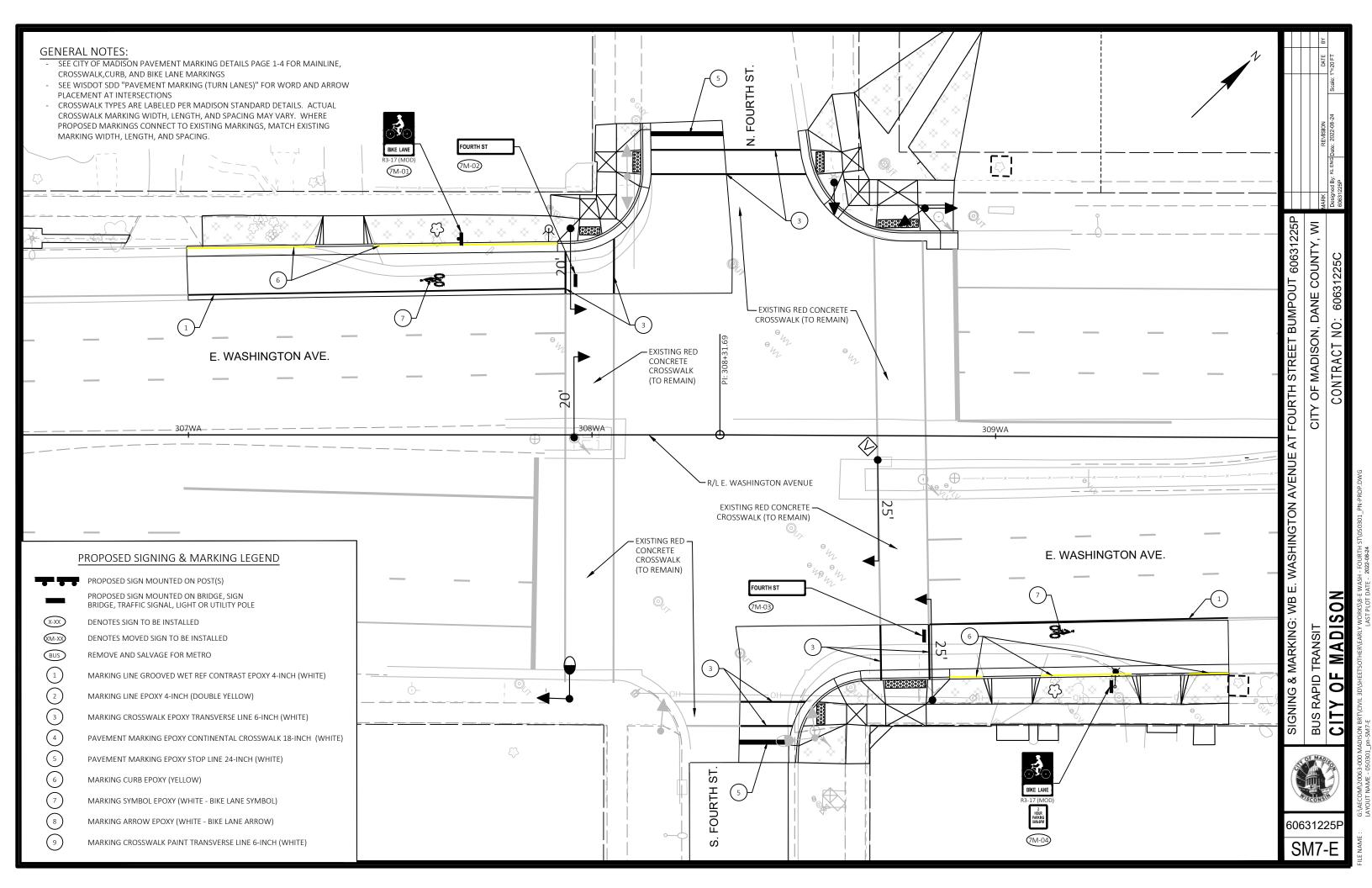


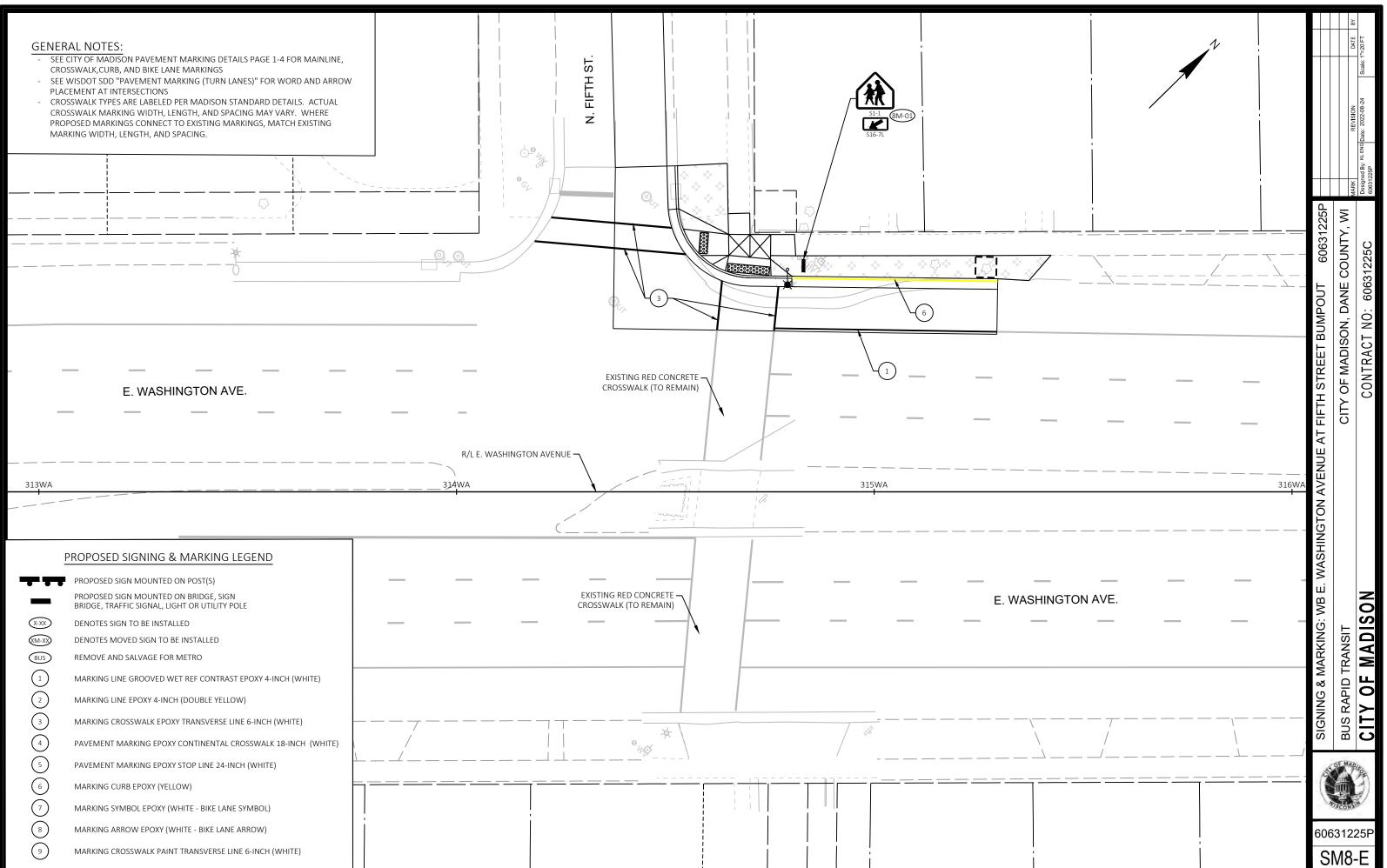








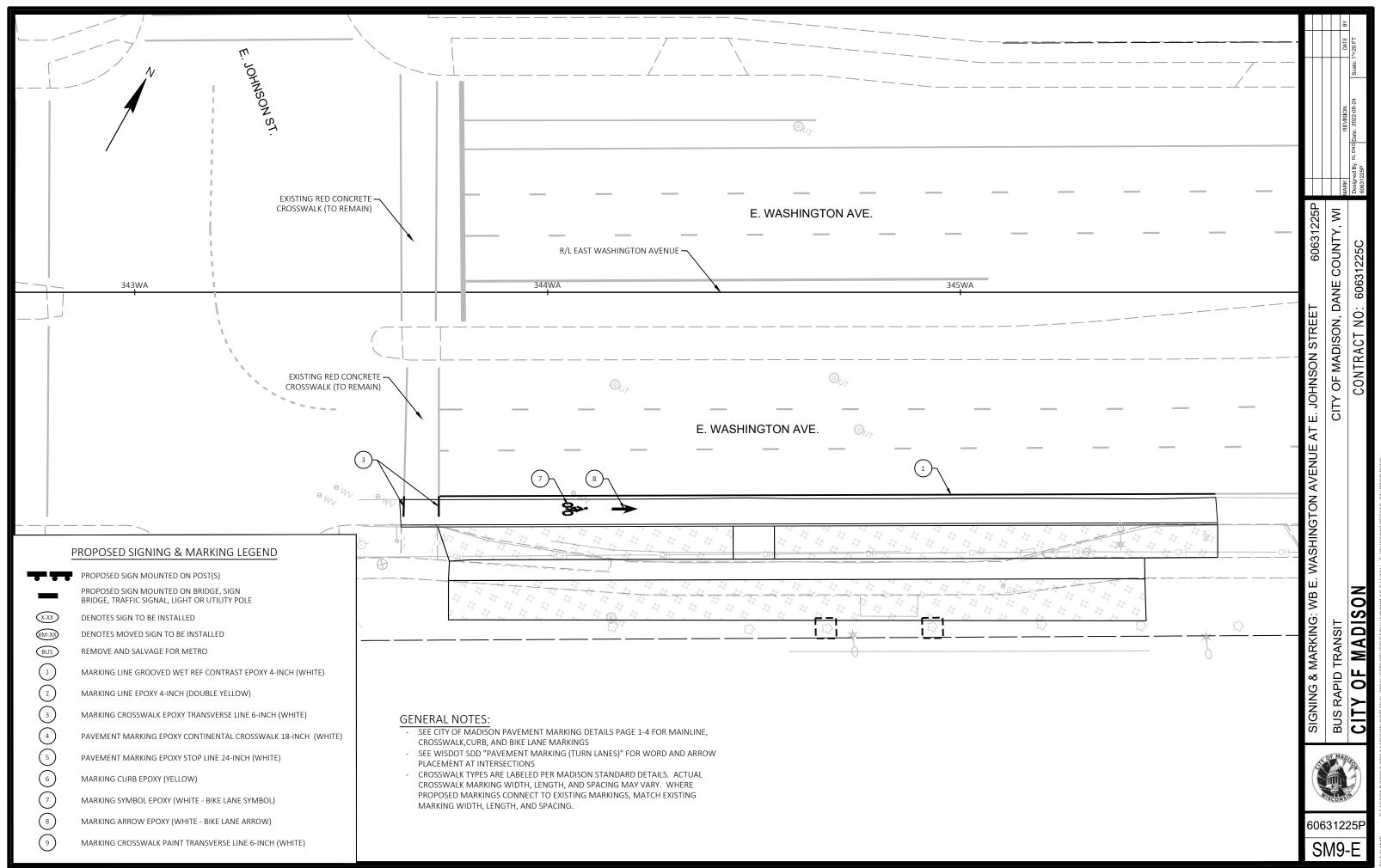


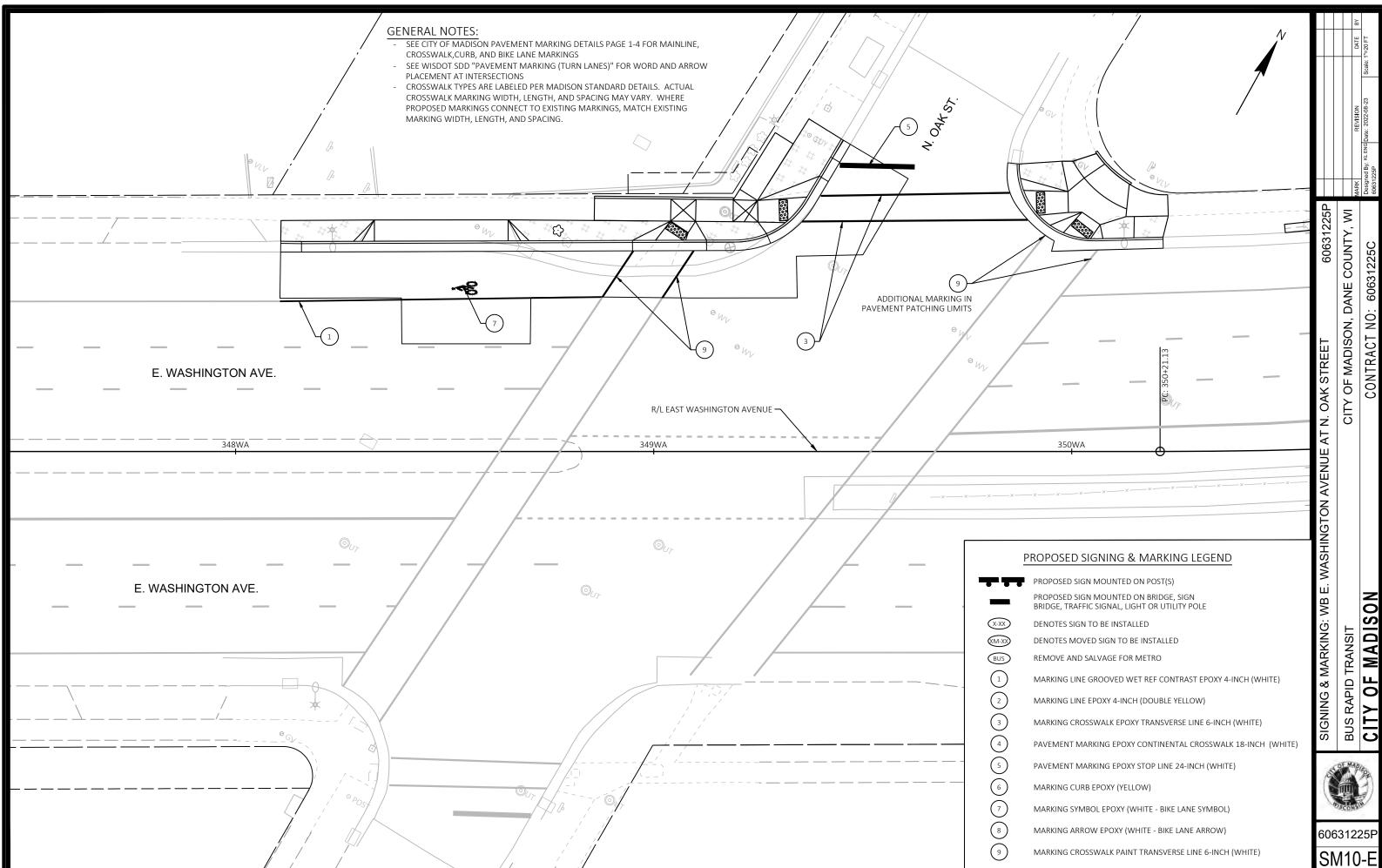


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BUMPOUT LOCATION: EAST WASHINGTON AT WEBSTER STREET

40.01204.0110Removing Asphaltic SurfaceSY40.01204.0115Removing Asphaltic Surface Butt JointsSY	160 1 190
40.01 204.0115 Removing Asphaltic Surface Butt Joints SY	1 190
	190
40.01 204.0155 Removing Concrete Sidewalk SY	130
40.06 305.0120 Base Aggregate Dense 1 1/4-Inch TON	36
40.07 450.4000 HMA Cold Weather Paving TON	9
40.07 455.0605 Tack Coat GAL	2
40.07 460.2000 Incentive Density HMA Pavement DOL	6
40.07 460.6223 HMA Pavement 3 MT 58-28 S TON	5
40.07 460.6224 HMA Pavement 4 MT 58-28 S TON	4
40.06 602.0410 Concrete Sidewalk 5-Inch SF	2750
40.07 624.0100 Water MGAL	1
40.02 628.7015 Inlet Protection Type C EACH	1
40.06 632.0101.03 Trees (Shademaster Thornless Honey Locust, B&B, 2 1/2-IN) EACH	2
40.06 632.9101 Landscape Planting Surveillance and Care Cycles EACH	2
40.07 650.5000 Construction Staking Base LF	180
40.07 650.5500 Construction Staking Curb Gutter and Curb & Gutter LF	180
40.01 690.0150 Sawing Asphalt LF	180
40.01 690.0250 Sawing Concrete LF	230
40.06 SPV.0060.001 Construction Staking Sidewalk EACH	1
40.06 SPV.0060.501 Tree Protection EACH	4
40.07 SPV.0060.502 Tree Grates EACH	2
40.07 SPV.0090.001 Concrete Curb & Gutter 30-Inch Type A Special LF	180
40.07 SPV.0090.008 Cold Weather Protection of Concrete Curb & Gutter (Polyethylene) LF	180
40.06 SPV.0165.003 Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene) SF	2750

60631225P CITY OF MADISON, DANE COUNTY, WI CONTRACT NO: 60631225C MISCELLANEOUS QUANTITIES
BUS RAPID TRANSIT
CITY OF MADISON

BUMPOUT LOCATION: EAST WASHINGTON AT LIVINGSTON STREET

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.01	204.0100	Removing Concrete Pavement	SY	360
40.01	204.0110	Removing Asphaltic Surface	SY	65
40.01	204.0115	Removing Asphaltic Surface Butt Joints	SY	12
40.01	204.0120	Removing Asphaltic Surface Milling	SY	230
40.01	204.0150	Removing Curb & Gutter	LF	140
40.01	204.0155	Removing Concrete Sidewalk	SY	210
40.02	204.0220	Removing Inlets	EACH	4
40.02	204.0245.01	Removing Storm Sewer - 12 inch or less	LF	130
40.02	204.0245.03	Removing Storm Sewer - 18 inch	LF	86
40.02	204.0245.04	Removing Storm Sewer - 24 inch	LF	10
40.07	209.0300.S	Backfill Course Aggregate Size No. 1	CY	4
40.07	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	63
40.07	312.0110	Select Crushed Material	TON	98
40.06	405.1000	Stamping Colored Concrete	CY	2
40.07	415.0100	Concrete Pavement 10-Inch	SY	410
40.07	416.0610	Drilled Tie Bars	EACH	127
40.07	416.0620	Drilled Dowel Bars	EACH	40
40.07	450.4000	HMA Cold Weather Paving	TON	41
40.07	455.0605	Tack Coat	GAL	18
40.07	460.2000	Incentive Density HMA Pavement	DOL	30
40.07	460.6223	HMA Pavement 3 MT 58-28 S	TON	8
40.07	460.6224	HMA Pavement 4 MT 58-28 S	TON	33
40.02	520.8000	Concrete Collars for Pipe	EACH	6
40.06	601.0600	Concrete Curb Pedestrian	LF	18
40.06	602.0410	Concrete Sidewalk 5-Inch	SF	830
40.06	602.0420	Concrete Sidewalk 7-Inch	SF	770
40.06	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	76
40.02	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	150
40.02	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	78
40.02	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	11
40.02	611.0624	Inlet Covers Type H	EACH	1
40.02	611.2005	Manholes 5-FT Diameter	EACH	1
40.02	611.3230	Inlets 2x3-FT	EACH	4
40.02	611.8110	Adjusting Manhole Covers	EACH	1

BUMPOUT LOCATION: EAST WASHINGTON AT LIVINGSTON STREET CONTINUED

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.02	611.9710	Salvaged Inlet Covers	EACH	4
40.02	612.0106	Pipe Underdrain 6-Inch	LF	150
40.07	624.0100	Water	MGAL	8
40.06	625.0100	Topsoil	SY	210
40.08	628.1905	Mobilizations Erosion Control	EACH	1
40.06	628.2006	Erosion Mat Urban Class I Type A	SY	210
40.06	628.6505	Soil Stabilizer Type A	ACRE	0.04
40.02	628.7015	Inlet Protection Type C	EACH	17
40.06	629.0210	Fertilizer Type B	CWT	0.13
40.06	630.0140	Seeding Mixture No. 40	LB	4
40.06	630.0500	Seed Water	MGAL	2
40.06	645.0112	Geotextile Type DF Schedule B	SY	81
40.07	650.5000	Construction Staking Base	LF	280
40.07	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	32
40.07	650.7000	Construction Staking Concrete Pavement	LF	260
40.06	650.9000	Construction Staking Curb Ramps	EACH	6
50.05	678.0300	Fiber Optic Splice	EACH	288
40.01	690.0150	Sawing Asphalt	LF	110
40.01	690.0250	Sawing Concrete	LF	720
40.07	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	120
40.06	SPV.0060.001	Construction Staking Sidewalk	EACH	1
50.05	SPV.0060.246	Install Electrical Pull Box Type VII	EACH	1
50.05	SPV.0060.268	Install Electrical Pull Box Type X	EACH	1
40.06	SPV.0060.501	Tree Protection	EACH	2
40.02	SPV.0060.613	Adjust Water Valve	EACH	3
40.07	SPV.0090.001	Concrete Curb & Gutter 30-Inch Type A Special	LF	370
40.07	SPV.0090.002	Concrete Curb & Gutter 18-Inch Type A Special	LF	32
40.07	SPV.0090.008	Cold Weather Protection of Concrete Curb & Gutter (Polyethylene)	LF	420
50.05	SPV.0090.204	Conduit HDPE Directional Bore 1-Duct 3-Inch	LF	258
50.05	SPV.0090.208	Furnish and Install Fiber Optic Cable Outdoor 288-CT	LF	393
40.02	SPV.0090.606	PVC Pipe 18-inch	LF	8
40.06	SPV.0165.003	Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene)	SF	1590
40.07	SPV.0180.001	Cold Weather Protection of Concrete Pavement (Polyethylene)	SY	410

BUMPOUT LOCATION: EAST WASHINGTON AT BREARLY STREET

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.01	201.0120	Clearing	ID	48
40.01	201.0220	Grubbing	ID	48
40.01	204.0100	Removing Concrete Pavement	SY	350
40.01	204.0115	Removing Asphaltic Surface Butt Joints	SY	8
40.01	204.0120	Removing Asphaltic Surface Milling	SY	180
40.01	204.0150	Removing Curb & Gutter	LF	9
40.01	204.0155	Removing Concrete Sidewalk	SY	98
40.02	204.0220	Removing Inlets	EACH	2
40.02	204.0245.01	Removing Storm Sewer - 12 inch or less	LF	73
40.07	209.0300.S	Backfill Course Aggregate Size No. 1	CY	4
40.07	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	44
40.07	312.0110	Select Crushed Material	TON	77
40.07	415.0100	Concrete Pavement 10-Inch	SY	360
40.07	416.0610	Drilled Tie Bars	EACH	99
40.07	416.0620	Drilled Dowel Bars	EACH	32
40.07	450.4000	HMA Cold Weather Paving	TON	21
40.07	455.0605	Tack Coat	GAL	11
40.07	460.2000	Incentive Density HMA Pavement	DOL	20
40.07	460.6223	HMA Pavement 3 MT 58-28 S	TON	1
40.07	460.6224	HMA Pavement 4 MT 58-28 S	TON	20
40.02	520.8000	Concrete Collars for Pipe	EACH	4
40.06	601.0600	Concrete Curb Pedestrian	LF	8
40.06	602.0410	Concrete Sidewalk 5-Inch	SF	490
40.06	602.0420	Concrete Sidewalk 7-Inch	SF	440
40.06	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	42
40.02	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	75
40.02	611.0535	Manhole Covers Type J-Special	EACH	1
40.02	611.0624	Inlet Covers Type H	EACH	1
40.02	611.2004	Manholes 4-FT Diameter	EACH	1
40.02	611.3004	Inlets 4-FT Diameter	EACH	1
40.02	611.3230	Inlets 2x3-FT	EACH	1
40.02	611.8110	Adjusting Manhole Covers	EACH	2
40.02	611.8115	Adjusting Inlet Covers	EACH	2

BUMPOUT LOCATION: EAST WASHINGTON AT BREARLY STREET CONTINUED

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.02	611.9710	Salvaged Inlet Covers	EACH	1
40.02	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	130
40.07	624.0100	Water	MGAL	8
40.06	625.0100	Topsoil	SY	200
40.08	628.1905	Mobilizations Erosion Control	EACH	1
40.06	628.2006	Erosion Mat Urban Class I Type A	SY	200
40.06	628.6505	Soil Stabilizer Type A	ACRE	0.04
40.02	628.7015	Inlet Protection Type C	EACH	12
40.06	629.0210	Fertilizer Type B	CWT	0.13
40.06	630.0140	Seeding Mixture No. 40	LB	4
40.06	630.0500	Seed Water	MGAL	2
40.06	632.0101.07	Trees (New Horizon Elm, B&B, 2-IN)	EACH	2
40.06	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	2
40.06	645.0112	Geotextile Type DF Schedule B	SY	70
40.02	650.4000	Construction Staking Storm Sewer	EACH	3
40.07	650.5000	Construction Staking Base	LF	270
40.07	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	7
40.07	650.7000	Construction Staking Concrete Pavement	LF	260
40.06	650.9000	Construction Staking Curb Ramps	EACH	4
40.02	653.0900	Adjusting Pull Boxes	EACH	1
50.05	678.0300	Fiber Optic Splice	EACH	180
40.01	690.0150	Sawing Asphalt	LF	40
40.01	690.0250	Sawing Concrete	LF	380
40.07	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	110
40.06	SPV.0060.001	Construction Staking Sidewalk	EACH	1
50.05	SPV.0060.201	Install Electrical Pull Box Type I	EACH	1
40.02	SPV.0060.613	Adjust Water Valve	EACH	2
40.07	SPV.0090.001	Concrete Curb & Gutter 30-Inch Type A Special	LF	260
40.07	SPV.0090.008	Cold Weather Protection of Concrete Curb & Gutter (Polyethylene)	LF	270
50.05	SPV.0090.204	Conduit HDPE Directional Bore 1-Duct 3-Inch	LF	167
40.06	SPV.0165.003	Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene)	SF	930
40.07	SPV.0180.001	Cold Weather Protection of Concrete Pavement (Polyethylene)	SY	360

BUMPOUT LOCATION: EAST WASHINGTON AT FEW STREET

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.01	201.0120	Clearing	ID	128
40.01	201.0220	Grubbing	ID	128
40.01	204.0100	Removing Concrete Pavement	SY	560
40.01	204.0115	Removing Asphaltic Surface Butt Joints	SY	6
40.01	204.0120	Removing Asphaltic Surface Milling	SY	140
40.01	204.0150	Removing Curb & Gutter	LF	46
40.01	204.0155	Removing Concrete Sidewalk	SY	230
40.01	204.0185	Removing Masonry	CY	1
40.02	204.0220	Removing Inlets	EACH	6
40.02	204.0245.01	Removing Storm Sewer - 12 inch or less	LF	120
40.02	204.0245.03	Removing Storm Sewer - 18 inch	LF	20
40.02	204.0245.04	Removing Storm Sewer - 24 inch	LF	11
40.07	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	102
40.07	312.0110	Select Crushed Material	TON	190
40.07	415.0100	Concrete Pavement 10-Inch	SY	660
40.07	416.0170	Concrete Driveway 7-Inch	SY	9
40.07	416.0610	Drilled Tie Bars	EACH	160
40.07	416.0620	Drilled Dowel Bars	EACH	48
40.07	450.4000	HMA Cold Weather Paving	TON	17
40.07	455.0605	Tack Coat	GAL	9
40.07	460.2000	Incentive Density HMA Pavement	DOL	11
40.07	460.6223	HMA Pavement 3 MT 58-28 S	TON	1
40.07	460.6224	HMA Pavement 4 MT 58-28 S	TON	48
40.02	520.8000	Concrete Collars for Pipe	EACH	8
40.06	602.0410	Concrete Sidewalk 5-Inch	SF	700
40.06	602.0420	Concrete Sidewalk 7-Inch	SF	540
40.06	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	60
40.02	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	150
40.02	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	18
40.02	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	12
40.02	611.0535	Manhole Covers Type J-Special	EACH	1
40.02	611.0624	Inlet Covers Type H	EACH	2
40.02	611.2004	Manholes 4-FT Diameter	EACH	1
40.02	611.3230	Inlets 2x3-FT	EACH	6

BUMPOUT LOCATION: EAST WASHINGTON AT FEW STREET CONTINUED

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.02	611.8115	Adjusting Inlet Covers	EACH	1
40.02	611.9710	Salvaged Inlet Covers	EACH	4
40.07	624.0100	Water	MGAL	12
40.06	625.0100	Topsoil	SY	290
40.08	628.1905	Mobilizations Erosion Control	EACH	1
40.06	628.2006	Erosion Mat Urban Class I Type A	SY	290
40.06	628.6505	Soil Stabilizer Type A	ACRE	0.06
40.02	628.7015	Inlet Protection Type C	EACH	16
40.06	629.0210	Fertilizer Type B	CWT	0.18
40.06	630.0140	Seeding Mixture No. 40	LB	5
40.06	630.0500	Seed Water	MGAL	2
40.06	632.0101.08	Trees (American Sentry Linden, B&B, 2-IN)	EACH	1
40.06	632.0101.09	Trees (State Street Miyabe Maple, B&B, 2-IN)	EACH	2
40.06	632.0101.10	Trees (Early Glow Buckeye, B&B, 2-IN)	EACH	4
40.06	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	7
40.02	650.4000	Construction Staking Storm Sewer	EACH	6
40.07	650.5000	Construction Staking Base	LF	510
40.07	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	46
40.07	650.7000	Construction Staking Concrete Pavement	LF	470
40.06	650.9000	Construction Staking Curb Ramps	EACH	6
50.05	678.0300	Fiber Optic Splice	EACH	160
40.01	690.0150	Sawing Asphalt	LF	26
40.01	690.0250	Sawing Concrete	LF	680
40.07	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	140
40.06	SPV.0060.001	Construction Staking Sidewalk	EACH	1
50.05	SPV.0060.201	Install Electrical Pull Box Type I	EACH	2
40.06	SPV.0060.501	Tree Protection	EACH	1
40.02	SPV.0060.613	Adjust Water Valve	EACH	4
40.07	SPV.0090.001	Concrete Curb & Gutter 30-Inch Type A Special	LF	510
40.07	SPV.0090.008	Cold Weather Protection of Concrete Curb & Gutter (Polyethylene)	LF	510
50.05	SPV.0090.204	Conduit HDPE Directional Bore 1-Duct 3-Inch	LF	215
40.06	SPV.0165.003	Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene)	SF	700
40.07	SPV.0180.001	Cold Weather Protection of Concrete Pavement (Polyethylene)	SY	660



BUMPOUT LOCATION: EAST WASHINGTON AT DICKINSON STREET

200 2255	1000 A 2	BUMPOUT LOCATION: EAST WASHINGTON AT DICKINSON STREET		01145:===
SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.01	201.0120	Clearing	ID	20
40.01	201.0220	Grubbing	ID	20
40.01	204.0100	Removing Concrete Pavement	SY	170
40.01	204.0115	Removing Asphaltic Surface Butt Joints	SY	4
40.01	204.0120	Removing Asphaltic Surface Milling	SY	85
40.01	204.0150	Removing Curb & Gutter	LF	16
40.01	204.0155	Removing Concrete Sidewalk	SY	48
40.07	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	25
40.07	312.0110	Select Crushed Material	TON	48
40.07	415.0100	Concrete Pavement 10-Inch	SY	190
40.07	416.0610	Drilled Tie Bars	EACH	47
40.07	416.0620	Drilled Dowel Bars	EACH	16
40.07	450.4000	HMA Cold Weather Paving	TON	10
40.07	455.0605	Tack Coat	GAL	5
40.07	460.2000	Incentive Density HMA Pavement	DOL	7
40.07	460.6223	HMA Pavement 3 MT 58-28 S	TON	1
40.07	460.6224	HMA Pavement 4 MT 58-28 S	TON	10
40.06	602.0410	Concrete Sidewalk 5-Inch	SF	140
40.06	602.0420	Concrete Sidewalk 7-Inch	SF	220
40.06	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	20
40.02	611.8110	Adjusting Manhole Covers	EACH	2
40.02	611.8115	Adjusting Inlet Covers	EACH	1
40.07	624.0100	Water	MGAL	4
40.06	625.0100	Topsoil	SY	91
40.08	628.1905	Mobilizations Erosion Control	EACH	1
40.06	628.2006	Erosion Mat Urban Class I Type A	SY	91
40.06	628.6505	Soil Stabilizer Type A	ACRE	0.02
40.02	628.7015	Inlet Protection Type C	EACH	3
40.06	629.0210	Fertilizer Type B	CWT	0.06
40.06	630.0140	Seeding Mixture No. 40	LB	2
40.06	630.0500	Seed Water	MGAL	1
40.06	632.0101.02	Trees (Kentucky Coffee Tree, B&B, 2 1/2-IN)	EACH	2
40.06	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	2
40.07	650.5000	Construction Staking Base	LF	130
40.07	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	16
40.07	650.7000	Construction Staking Concrete Pavement	LF	120
40.06	650.9000	Construction Staking Curb Ramps	EACH	2
40.02	653.0900	Adjusting Pull Boxes	EACH	1
40.02	690.0150	Sawing Asphalt	LF	67
40.01	690.0250	Sawing Concrete	LF	180
40.01	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	57
40.07		·	EACH	
	SPV.0060.001	Construction Staking Sidewalk		
40.06	SPV.0060.501	Tree Protection	EACH	1
40.02	SPV.0060.613	Adjust Water Valve	EACH	120
40.07	SPV.0090.001	Concrete Curb & Gutter 30-Inch Type A Special	LF	130
40.07	SPV.0090.008	Cold Weather Protection of Concrete Curb & Gutter (Polyethylene)	LF	130
40.06	SPV.0165.003	Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene)	SF	360
40.07	SPV.0180.001	Cold Weather Protection of Concrete Pavement (Polyethylene)	SY	190

BUMPOUT LOCATION: EAST WASHINGTON AT THIRD STREET

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.01	201.0120	Clearing	ID	32
40.01	201.0220	Grubbing	ID	32
40.01	204.0100	Removing Concrete Pavement	SY	390
40.01	204.0110	Removing Asphaltic Surface	SY	15
40.01	204.0155	Removing Concrete Sidewalk	SY	200
40.01	204.0185	Removing Masonry	CY	0.2
40.02	204.0220	Removing Inlets	EACH	4
40.02	204.0245.01	Removing Storm Sewer - 12 inch or less	LF	180
40.07	209.0300.S	Backfill Course Aggregate Size No. 1	CY	3
40.07	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	78
40.07	312.0110	Select Crushed Material	TON	72
40.07	415.0100	Concrete Pavement 10-Inch	SY	410
40.07	416.0170	Concrete Driveway 7-Inch	SY	61
40.07	416.0610	Drilled Tie Bars	EACH	87
40.07 40.07	416.0620	Drilled Dowel Bars	EACH	32
40.07	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	3
40.02	520.8000	Concrete Collars for Pipe	EACH	3
40.06	602.0410	Concrete Sidewalk 5-Inch	SF	510
40.06	602.0420	Concrete Sidewalk 7-Inch	SF	580
40.06	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	40
40.02	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	180
40.02	611.3004	Inlets 4-FT Diameter	EACH	1
40.02	611.3230	Inlets 2x3-FT	EACH	3
40.02	611.8110	Adjusting Manhole Covers	EACH	3
40.02	611.8115	Adjusting Inlet Covers	EACH	3
40.02	611.9710	Salvaged Inlet Covers	EACH	4
40.02	612.0106	Pipe Underdrain 6-Inch	LF	100
40.07	624.0100	Water	MGAL	6
40.06	625.0100	Topsoil	SY	160
40.08	628.1905	Mobilizations Erosion Control	EACH	1
10.06	628.2006	Erosion Mat Urban Class I Type A	SY	160
40.06	628.6505	Soil Stabilizer Type A	ACRE	0.03
40.02	628.7015	Inlet Protection Type C	EACH	12
40.06	629.0210	Fertilizer Type B	CWT	0.10
10.06	630.0140	Seeding Mixture No. 40	LB	3
40.06	630.0500	Seed Water	MGAL	
40.06	632.0101.09	Trees (State Street Miyabe Maple, B&B, 2-IN)	EACH	2
40.06			EACH	2
	632.9101 645.0112	Landscape Planting Surveillance and Care Cycles	SY	
10.06		Geotextile Type DF Schedule B		56
10.02	650.4000	Construction Staking Storm Sewer	EACH	7
10.07	650.5000	Construction Staking Base	LF	270
40.07	650.7000	Construction Staking Concrete Pavement	LF	270
40.06	650.9000	Construction Staking Curb Ramps	EACH	4
40.01	690.0150	Sawing Asphalt	LF	11
10.01	690.0250	Sawing Concrete	LF	390
10.07	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	120
10.06	SPV.0060.001	Construction Staking Sidewalk	EACH	1
10.06	SPV.0060.501	Tree Protection	EACH	2
10.02	SPV.0060.609	Relocate Hydrant	EACH	1
10.02	SPV.0060.613	Adjust Water Valve	EACH	1
10.07	SPV.0090.001	Concrete Curb & Gutter 30-Inch Type A Special	LF	250
10.07	SPV.0090.008	Cold Weather Protection of Concrete Curb & Gutter (Polyethylene)	LF	250
40.07	SPV.0090.009	Concrete Curb & Gutter 30-Inch Type X Special	LF	17
10.07	SPV.0165.003	Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene)	SF	1090
40.07	SPV.0180.001	Cold Weather Protection of Concrete Pavement (Polyethylene)	SY	410

BUMPOUT LOCATION: EAST WASHINGTON AT FOURTH STREET

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.01	201.0120	Clearing	ID	36
40.01	201.0120	Grubbing	ID	36
40.01	201.0220	ŭ .	SY	400
		Removing Concrete Pavement		
40.01	204.0115	Removing Asphaltic Surface Butt Joints	SY	5
40.01	204.0120	Removing Asphaltic Surface Milling	SY	130
40.01	204.0150	Removing Curb & Gutter	LF	53
40.01	204.0155	Removing Concrete Sidewalk	SY	280
40.07	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	72
40.07	312.0110	Select Crushed Material	TON	78
40.07	405.1000	Stamping Colored Concrete	CY	1
40.07	415.0100	Concrete Pavement 10-Inch	SY	420
40.07	416.0170	Concrete Driveway 7-Inch	SY	33
40.07	416.0610	Drilled Tie Bars	EACH	104
10.07	416.0620	Drilled Dowel Bars	EACH	32
40.07	450.4000	HMA Cold Weather Paving	TON	16
10.07	455.0605	Tack Coat	GAL	8
40.07	460.6223	HMA Pavement 3 MT 58-28 S	TON	1
40.07	460.6224	HMA Pavement 4 MT 58-28 S	TON	15
40.06	602.0410	Concrete Sidewalk 5-Inch	SF	1170
40.06	602.0420	Concrete Sidewalk 7-Inch	SF	880
40.06	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	80
40.02	611.8110	Adjusting Manhole Covers	EACH	4
40.02 40.07	624.0100	Water	MGAL	
40.07 40.06	625.0100	Topsoil	SY	
		•		180
40.08	628.1905	Mobilizations Erosion Control	EACH	100
40.06	628.2006	Erosion Mat Urban Class I Type A	SY	180
10.06	628.6505	Soil Stabilizer Type A	ACRE	0.04
40.02	628.7015	Inlet Protection Type C	EACH	3
40.06	629.0210	Fertilizer Type B	CWT	0.11
10.06	630.0140	Seeding Mixture No. 40	LB	3
10.06	630.0500	Seed Water	MGAL	2
10.06	632.0101.07	Trees (New Horizon Elm, B&B, 2-IN)	EACH	2
10.06	632.0101.08	Trees (American Sentry Linden, B&B, 2-IN)	EACH	1
40.06	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	3
40.07	650.5000	Construction Staking Base	LF	260
40.07	650.7000	Construction Staking Concrete Pavement	LF	260
40.06	650.9000	Construction Staking Curb Ramps	EACH	E
50.05	678.0300	Fiber Optic Splice	EACH	168
10.01	690.0150	Sawing Asphalt	LF	87
10.01	690.0250	Sawing Concrete	LF	530
40.07	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	130
40.06	SPV.0060.001	Construction Staking Sidewalk	EACH	1
50.05	SPV.0060.201	Install Electrical Pull Box Type I	EACH	
50.05	SPV.0060.246	Install Electrical Pull Box Type VII	EACH	
10.06	SPV.0060.501	Tree Protection	EACH	
10.00 10.02	SPV.0060.501		EACH	2
		Relocate Hydrant		
40.07	SPV.0090.001	Concrete Curb & Gutter 30-Inch Type A Special	LF	310
10.07	SPV.0090.008	Cold Weather Protection of Concrete Curb & Gutter (Polyethylene)	LF	310
50.05	SPV.0090.204	Conduit HDPE Directional Bore 1-Duct 3-Inch	LF	326
10.06	SPV.0165.003	Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene)	SF	2080
40.07	SPV.0180.001	Cold Weather Protection of Concrete Pavement (Polyethylene)	SY	420



BUMPOUT LOCATION: EAST WASHINGTON AT FIFTH STREET

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.01	204.0100	Removing Concrete Pavement	SY	160
40.01	204.0115	Removing Asphaltic Surface Butt Joints	SY	3
40.01	204.0120	Removing Asphaltic Surface Milling	SY	66
40.01	204.0155	Removing Concrete Sidewalk	SY	38
40.07	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	11
40.07	312.0110	Select Crushed Material	TON	19
40.07	415.0100	Concrete Pavement 10-Inch	SY	160
40.07	416.0610	Drilled Tie Bars	EACH	40
40.07	416.0620	Drilled Dowel Bars	EACH	16
40.07	450.4000	HMA Cold Weather Paving	TON	8
40.07	455.0605	Tack Coat	GAL	4
40.07	460.2000	Incentive Density HMA Pavement	DOL	5
40.07	460.6223	HMA Pavement 3 MT 58-28 S	TON	1
40.07	460.6224	HMA Pavement 4 MT 58-28 S	TON	8
40.06	602.0410	Concrete Sidewalk 5-Inch	SF	56
40.06	602.0420	Concrete Sidewalk 7-Inch	SF	200
40.06	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	30
40.02	611.8110	Adjusting Manhole Covers	EACH	2
40.02	611.8115	Adjusting Inlet Covers	EACH	1
40.07	624.0100	Water	MGAL	3
40.06	625.0100	Topsoil	SY	70
40.08	628.1905	Mobilizations Erosion Control	EACH	1
40.06	628.2006	Erosion Mat Urban Class I Type A	SY	70
40.06	628.6505	Soil Stabilizer Type A	ACRE	0.01
40.02	628.7015	Inlet Protection Type C	EACH	2
40.06	629.0210	Fertilizer Type B	CWT	0.04
40.06	630.0140	Seeding Mixture No. 40	LB	1
40.06	630.0500	Seed Water	MGAL	1
40.07	650.5000	Construction Staking Base	LF	100
40.07	650.7000	Construction Staking Concrete Pavement	LF	99
40.06	650.9000	Construction Staking Curb Ramps	EACH	2
40.01	690.0150	Sawing Asphalt	LF	16
40.01	690.0250	Sawing Concrete	LF	160
40.07	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	48
40.06	SPV.0060.001	Construction Staking Sidewalk	EACH	1
40.06	SPV.0060.501	Tree Protection	EACH	1
40.07	SPV.0090.001	Concrete Curb & Gutter 30-Inch Type A Special	LF	96
40.07	SPV.0090.008	Cold Weather Protection of Concrete Curb & Gutter (Polyethylene)	LF	96
40.06	SPV.0165.003	Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene)	SF	260
40.07	SPV.0180.001	Cold Weather Protection of Concrete Pavement (Polyethylene)	SY	160

60631225P CITY OF MADISON, DANE COUNTY, WI CONTRACT NO: 60631225C MISCELLANEOUS QUANTITIES
BUS RAPID TRANSIT
CITY OF MADISON

BUMPOUT LOCATION: EAST WASHINGTON AT JOHNSON STREET

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.01	204.0100	Removing Concrete Pavement	SY	280
40.01	204.0155	Removing Concrete Sidewalk	SY	140
40.02	204.0245.01	Removing Storm Sewer - 12 inch or less	LF	12
40.06	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	11
40.07	415.0100	Concrete Pavement 10-Inch	SY	90
40.07	416.0610	Drilled Tie Bars	EACH	66
40.07	416.0620	Drilled Dowel Bars	EACH	13
40.02	520.8000	Concrete Collars for Pipe	EACH	2
40.07	601.0452	Concrete Curb & Gutter Integral 30-Inch Type D	LF	200
40.06	602.0410	Concrete Sidewalk 5-Inch	SF	840
40.02	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	12
40.02	611.3230	Inlets 2x3-FT	EACH	1
40.02	611.9710	Salvaged Inlet Covers	EACH	1
40.07	624.0100	Water	MGAL	12
40.06	625.0100	Topsoil	SY	350
40.08	628.1905	Mobilizations Erosion Control	EACH	1
40.06	628.2006	Erosion Mat Urban Class I Type A	SY	350
40.06	628.6505	Soil Stabilizer Type A	ACRE	0.07
40.02	628.7015	Inlet Protection Type C	EACH	4
40.06	629.0210	Fertilizer Type B	CWT	0.22
40.06	630.0140	Seeding Mixture No. 40	LB	6
40.06	630.0500	Seed Water	MGAL	3
40.02	650.4000	Construction Staking Storm Sewer	EACH	3
40.07	650.5000	Construction Staking Base	LF	200
40.07	650.7000	Construction Staking Concrete Pavement	LF	200
40.01	690.0250	Sawing Concrete	LF	220
40.07	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	27
40.06	SPV.0060.001	Construction Staking Sidewalk	EACH	1
40.06	SPV.0060.501	Tree Protection	EACH	2
40.02	SPV.0060.611	Inlet Cover R-1878-B7G	EACH	2
40.06	SPV.0060.612	Madison Standard Saddled Inlet Type II	EACH	1
40.02	SPV.0060.613	Adjust Water Valve	EACH	1
40.07	SPV.0090.008	Cold Weather Protection of Concrete Curb & Gutter (Polyethylene)	LF	200
40.06	SPV.0165.003	Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene)	SF	840
40.07	SPV.0180.001	Cold Weather Protection of Concrete Pavement (Polyethylene)	SY	90

60631225P CITY OF MADISON, DANE COUNTY, WI CONTRACT NO: 60631225C MISCELLANEOUS QUANTITIES
BUS RAPID TRANSIT
CITY OF MADISON

BUS F

BUMPOUT LOCATION: EAST WASHINGTON AT OAK STREET

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.01	201.0120	Clearing	ID	12
40.01	201.0220	Grubbing	ID	12
40.01	204.0100	Removing Concrete Pavement	SY	250
40.01	204.0150	Removing Curb & Gutter	LF	46
40.01	204.0155	Removing Concrete Sidewalk	SY	100
40.02	204.0220	Removing Inlets	EACH	1
40.02	204.0245.01	Removing Storm Sewer - 12 inch or less	LF	35
40.07	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	29
40.07	312.0110	Select Crushed Material	TON	26
40.07	415.0100	Concrete Pavement 10-Inch	SY	240
40.07	416.0170	Concrete Driveway 7-Inch	SY	21
40.07	416.0610	Drilled Tie Bars	EACH	54
40.07	416.0620	Drilled Dowel Bars	EACH	40
40.02	520.8000	Concrete Collars for Pipe	EACH	2
40.06	602.0410	Concrete Sidewalk 5-Inch	SF	430
40.06	602.0420	Concrete Sidewalk 7-Inch	SF	440
40.06	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	40
40.02	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	36
40.02	611.0535	Manhole Covers Type J-Special	EACH	1
40.02	611.2004	Manholes 4-FT Diameter	EACH	
40.02	611.3004	Inlets 4-FT Diameter	EACH	
40.02	611.8110	Adjusting Manhole Covers	EACH	
40.02	611.9710	Salvaged Inlet Covers	EACH	
40.07	624.0100	Water	MGAL	4
40.06	625.0100	Topsoil	SY	96
40.08	628.1905	Mobilizations Erosion Control	EACH	1
40.06	628.2006	Erosion Mat Urban Class I Type A	SY	96
40.06	628.6505	Soil Stabilizer Type A	ACRE	0
40.02	628.7015	Inlet Protection Type C	EACH	2
40.06	629.0210	Fertilizer Type B	CWT	0.06
40.06	630.0140	Seeding Mixture No. 40	LB	2.00
40.06	630.0500	Seed Water	MGAL	0.80
40.06	632.0101.07	Trees (New Horizon Elm, B&B, 2-IN)	EACH	0.00
40.06	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	1
40.02	650.4000	Construction Staking Storm Sewer	EACH	2
40.07	650.5000	Construction Staking Base	LF	150
40.07	650.7000	Construction Staking Concrete Pavement	LF	150
40.06	650.9000	Construction Staking Curb Ramps	EACH	150
40.00	690.0250	Sawing Concrete	LF	340
40.07	715.0720	Incentive Compressive Strength Concrete Pavement	DOL	72
40.06	SPV.0060.001	Construction Staking Sidewalk	EACH	
40.00	SPV.0060.609	Relocate Hydrant	EACH	1
40.02	SPV.0060.609	Adjust Water Valve	EACH	1
40.02 40.07	SPV.0060.613 SPV.0090.001	Concrete Curb & Gutter 30-Inch Type A Special	LF	200
			LF LF	
40.07 40.06	SPV.0090.008	Cold Weather Protection of Concrete Curb & Gutter (Polyethylene) Cold Weather Protection of Concrete Sidewalk & Drive (Polyethylene)		200
40.06	SPV.0165.003	cold weather Protection of Concrete Sidewalk & Drive (Polyethylene)	SF	880

UNDISTRIBUTED QUANTITIES

SCC CODE	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.07	209.0300.S	Backfill Course Aggregate Size No. 1	CY	6
40.01	211.0200	Prepare Foundation for Concrete Pavement (project)	LS	1
40.08	213.0100	Finishing Roadway (project)	EACH	1
40.06	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	7
40.07	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	62
40.07	312.0110	Select Crushed Material	TON	91
40.02	612.0106	Pipe Underdrain 6-Inch	LF	38
40.02	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	20
40.08	619.1000	Mobilization	EACH	1
40.07	624.0100	Water	MGAL	6
40.06	625.0100	Topsoil	SY	152
40.08	628.1910	Mobilizations Emergency Erosion Control	EACH	10
40.06	628.2006	Erosion Mat Urban Class I Type A	SY	162
40.06	628.6505	Soil Stabilizer Type A	ACRE	0.03
40.02	628.7015	Inlet Protection Type C	EACH	7
40.06	629.0205	Fertilizer Type A	CWT	0.20
40.06	629.0210	Fertilizer Type B	CWT	0.10
40.06	630.0140	Seeding Mixture No. 40	LB	3
40.06	630.0500	Seed Water	MGAL	1
40.08	642.5401	Field Office Type D	EACH	1
40.06	645.0112	Geotextile Type DF Schedule B	SY	31
40.06	SPV.0035.002	Excavation, Hauling, Segregation, and Disposal of Contaminated Soil	TON	50

TREE LIST

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
4	AC	Acer miyabei 'Morton'	State Street Miyabe Maple	2 inch	B&B
4	AG	Aesculus glabra 'JN Select'	Early Glow Buckeye	2 inch	B&B
2	GD	Gymnocladus dioica	Kentucky Coffee Tree	2 inch	B&B
2	GT	Gleditsia triacanthos Inermis 'Shademaster'	Shademaster Thornless Honey Locust	2 inch	B&B
3	TA	Tilia americana 'McKSentry'	American Sentry Linden	2 inch	B&B
4	UH	Ulmus 'New Horizon'	New Horizon Elm	2 inch	B&B

		TRAFFIC SIGNAL C	ONDUIT SUMMARY			INST	ALL CONDU	JIT INTO EX	ISTING ITEM						L00	P DETECTIO	N			
			652.0325 CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH	652.0335 CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH	652.0615 CONDUIT	INTERSECTION EAST WASHINGTON		LOCAT STATION 230+24.5	OFFSET 60.8 'LT	652.0700. EACH	S — INTERS	ECTION	LOOP NO.	LOCA STATION	TION* OFFSET	SIZE FT X FT	NO. OF L	655.0700 DOP DETECTOR L LEAD IN CABLE LF	652.0900 LOOP DETECTOR SLOTS LF	655.0800 LOOP DETECT WIRE LF
INTERSECTION	FROM	TO	LF	LF	LF	AVENUE &		230+37.5	6.6 'RT	2	HYTEKS	Lenon	110.	317(1101)	011521	11 / 11	1011145			Li .
						LIVINGSTON STREET		229+32.0	59.3 'RT	2		SHINGTON	11	227+57.0	7.0 'RT	6 X 10		509	78	274
AST WASHINGTON	EXPB1	PB2	330	-	==			229+07.3	5.1 'LT	2	AVEN		12	228+96.8	6.9 'RT	6 X 10		319	38	156
AVENUE &	EXPB3	PB4		19	38			229+50.4	67.2 'LT	1	LIVINGSTO	ON STREET	21	231+94.0	45.2 'LT	6 X 10		252	37	163
/INGSTON STREET	PB4	EXPB5		57	21		EXSB11	229+50.2	71.4 'LT	1			22 23	231+92.5	34.2 'LT	6 X 10		252	47 57	182
	EXPB5	PB6	350				SUBTOTAL (/FACT M/ACII		10	_			231+91.0	23.9 'LT	6 X 10		252 252	68	201 224
-	EXPB8 PB9	PB9 EXCB1		18 21	40 48		AVE. & LIVIN	•		10			24 25	231+89.6 230+19.9	13.4 'LT 45.9 'LT	6 X 10 6 X 10		71	37	103
				21	48		AVE. & LIVIN	NGSTON ST.)					26	230+15.0	45.5 LT	6 X 10		71	49	126
	EXPB1 EXPB3	SB1 SB2	10 9			EAST WASHINGTON	EXPB1	308+64.4	62.4 'RT	1			27	230+10.5	25.4 'LT	6 X 10		71	59	148
	PB4	SB3	14			AVENUE &		307+89.5	49.2 'LT	1			28	230+05.5	14.5 'LT	6 X 10		71	70	173
	PB4	SB4	15			FOURTH STREET		308+94.3	54.6 'LT	1			29	229+68.2	14.4 'LT	6 X 10		229	58	163
-	EXPB5	SB5) 13	<u></u>							_		41	229+66.7	72.8 'LT	6 X 10		131	45	140
	EXPB8	SB9	9				SUBTOTAL ((EAST WASH		3			51	231+88.1	2.9 'LT	6 X 10		252	79	247
	PB9	SB10	7				AVE. & FO	DURTH ST.)					52	230+41.8	3.8 'LT	6 X 10		71	39	94
	PB9	EXSB11	19							12	_		61	227+52.9	48.5 'RT	6 X 10		509	37	191
									TOTAL	13			62	227+53.9	38.5 'RT	6 X 10		509	46	210
-	SUBTOTAL (EAST	WASH AVE. & LIVINGSTON ST.)	765	115	147								63	227+55.0	28.0 'RT	6 X 10		509	56	230
	•	,											64	227+56.0	17.5 'RT	6 X 10	5	509	68	253
ST WASHINGTON	EXPB1	SB1	10										65	229+27.9	48.7 'RT	6 X 10	4	319	37	158
AVENUE &	EXPB2	SB3	12		==		REMOVIN	NG PULL BC	OXES				66	229+32.4	38.5 'RT	6 X 10		319	46	177
DURTH STREET	EXPB4	SB5	7	==	==						_		67	229+37.0	28.0 'RT	6 X 10	4	319	57	200
	EXPB4	SB6	21				PULL BOX			653.0905			68	229+41.6	17.6 'RT	6 X 10	4	319	69	226
_	EXPB7	SB7	31				NO.	LOCA	TION	EACH			69	229+78.0	17.2 'RT	6 X 10	3	229	51	149
	EXPB7	SB8	11		==						_		81	229+80.0	78.2 'RT	6 X 10	3	225	69	184
	EXPB1	SB10	19			EAST WASHINGTON	EXPB2	EXIST		1			SUBTOTAL (FAS	ST WASH AVE &	LIVINGSTON ST.)		6,569	1,299	4,373
-	SUBTOTAL (EAST	WASH AVE. & FOURTH ST.)	111	0	0	AVENUE & LIVINGSTON STREET _	EXPB5	EXIST	IIIVG	1	_		•							
		TOTAL	880	120	150	_		AL (EAST WASH VINGSTON ST.)		2	EAST WAS AVEN	SHINGTON IUE &	42	308+23.4	73.6 'LT	6 X 10	4	345	41	163
		101/12		120	130		LIV	VINGSTON ST.)			FOURTH		SUBTOTAL (EAS	T WASH AVE. &	FOURTH ST.)			345	41	163
									TOTAL	2										
																TOTALS		6,910	1,340	4,540
													*FINAL LOCATIO	ON TO BE DETER	RMINED BY THE	ENGINEER IN T	HE FIELD			
													APPROXIMATI	E LOCATION ME	EASURED TO FRO	ONT CENTER OI	LOOP			
		TRAFFIC SIGNAL PULL BOX	SUMMARY			REMOVING CO	ONCRETE BA	ASES							CONCRET	E BASES				
						PULL BOX			653.0905						ς	PV 0060 204	SPV 0060 2	205 SPV.0060.206	6 SPV 0060 245	654.0120
			SPV.0060.202	SPV.0060.246		NO.	LOCAT	TION	EACH							CONCRETE	CONCRET			CONCRETE
			INSTALL ELECTRICAL						·							BASES	BASES	BASES	BASES	BASES
	PULL BOX	LOCATION*	PULL BOX TYPE III		EAST WASHINGTON	EXSB1	EXIST	TING	1							TYPE G	TYPE LB-3			TYPE 10-SPECIA
INTERSECTION	NO.	STATION OFFSET	EACH	EACH	AVENUE &	EXSB2	EXIST	TING	1		INTERSECTION	SB NO.	STATION	LOCATI	ON	EACH	EACH	EACH	EACH	EACH
					LIVINGSTON STREET		EXIST		1											
AST WASHINGTON		231+92.4 58.2 'LT	1	==		EXSB4	EXIST		1		EAST WASHINGTON	SB1	230+13.9			1				
AVENUE &	PB4	230+12.5 60.7 'RT	==	1		EXSB5	EXIST		1		AVENUE &	SB2	230+47.6					1		
VINGSTON STREET		227+54.6 60.7 'RT	1			EXSB6	EXIST		1		LIVINGSTON STREET	SB3	230+28.3			==			==	1
	PB9	229+36.3 57.3 'LT		1		EXSB7	EXIST	ING	1			SB4	229+99.2			1		==		
	CLIDTOTAL	FACT MACH AND OUR PROPERTY.				CLIDTOTAL (EACT	AVE 0 10 000	CTON CT '				SB5	229+32.8			1				
	ZORLOLYF (E	EAST WASH AVE & LIVINGSTON ST.	2	2		SUBTOTAL (EAST WASH	AVE. & LIVING	STON ST.)	7			SB9	228+97.3			==		1		
		TOTAL			EACT MACHINISTS	EVCD4	EVICE	TING	ā			SB10	229+27.4	1 57.7	.F1					1
		TOTAL	2	2	EAST WASHINGTON AVENUE &	EXSB1 EXSB2	EXIST EXIST		1			CLIDTOTAL	(EAST WASH A	/E & LIVINICCTO	N CT \	3		2	0	2

FOURTH STREET

*FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

EXSB3

EXSB4

EXSB5

EXSB6

EXSB7

SUBTOTAL (EAST WASH AVE. & FOURTH ST.)

EXISTING

EXISTING

EXISTING

EXISTING

EXISTING

TOTAL

14

73.0 'RT

65.4 'RT

53.4 'LT

60.5 'LT

62.1 'LT

56.4 'LT

65.4 'RT

TOTALS

308+62.6

307+94.4

307+96.0

308+06.8

308+61.5

308+82.2

308+84.7

SUBTOTAL (EAST WASH AVE & FOURTH ST.)

EAST WASHINGTON

AVENUE &

FOURTH STREET

SB1

SB3

SB5

SB6

SB7

SB8

SB10

MISCELLANEOUS QUANTITIES BUS RAPID TRANSIT

CITY OF MADISON

CITY OF MADISON, DANE COUNTY, WI CONTRACT NO: 60631225C

60631225P

ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG

TRAFFIC SIGNAL FACES SUMMARY

SIGNAL

SIGNAL

SPV.0060.220 SPV.0060.224

INSTALL

3-SECTION

TRAFFIC SIGNAL

COUNTDOWN

TRAFFIC SIGNAL HEADS 16-INCH BACKPLATES SIGNAL HEADS 12-INCH PEDESTRIAN WITH FACE 3-SECTION

SPV.0060.225

12-INCH

			SLACK PER	655.0230 CA	655.0240 BLE TRAFFIC SIGN	655.0260 NAL
			PB & CB	5-14 AWG	7-14 AWG	12-14 AWG
INTERSECTIONS	FROM	TO	L.F.	LF	LF	LF
EAST WASHINGTON	EXCB1	SB1	16			83
AVENUE &	SB1	HEAD 1	16	19		
LIVINGSTON STREET	SB1	HEAD 81	16	18		
	SB1	HEAD 83	16	18		
	EXCB1	SB2	16			165
	SB2	HEAD 5	16	19		
	SB2	HEAD 8	16	19		
	EXCB1	SB3	16			245
	SB3	HEAD 9	16	19		
	SB3	HEAD 10	16	19		
	EXCB1	SB4	16		245	
	SB4	HEAD 16	16	19		
	SB4	HEAD 88	16	18		
	EXCB1	SB5	16	==		305
	SB5	HEAD 7	16	19		
	SB5	HEAD 86	16	18		
	SB5	HEAD 87	16	18		
	EXCB1	SB9	16			185
	SB9	HEAD 2	16	19		
	SB9	HEAD 11	16	19		
	EXCB1	SB10	16			110
	SB10	HEAD 3	16	19		
	SB10	HEAD 4	16	19		
	3010	TIE/ID 4	10	15		
	,	EAST WASH AVE. & GSTON ST.)		299	245	1,093
	,			299	245	1,093
EAST WASHINGTON	,		16	299	245	1,093
EAST WASHINGTON AVENUE &	LIVIN	GSTON ST.)	16 16		245 	
	LIVIN	GSTON ST.) SB1			245 	67
AVENUE &	EXCB1 SB1	GSTON ST.) SB1 HEAD 11	16	 19	 	67
AVENUE &	EXCB1 SB1 SB1 SB1	SB1 HEAD 11 HEAD 13 HEAD 86	16 16 16	 19 19	 	67
AVENUE &	EXCB1 SB1 SB1 SB1 EXCB1	SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2	16 16 16 16	 19 19 18 	 	67
AVENUE &	EXCB1 SB1 SB1 SB1 EXCB1 EXCB1	SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85	16 16 16 16	 19 19 18 	 190	67
AVENUE &	EXCB1 SB1 SB1 SB1 EXCB1 EXCB1 EXSB2 EXCB1	SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3	16 16 16 16 16	19 19 18 	 190 165	67
AVENUE &	EXCB1 SB1 SB1 SB1 EXCB1 EXCB1 EXSB2 EXCB1 SB3	SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5	16 16 16 16 16 16 16	19 19 19 18 18	 190 165	67
AVENUE &	EXCB1 SB1 SB1 SB1 EXCB1 EXCB1 EXCB1 EXSB2 EXCB1 SB3 SB3	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84	16 16 16 16 16 16 16 16	19 19 18 18 19	 190 165 	67
AVENUE &	EXCB1 SB1 SB1 SB1 EXCB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5	16 16 16 16 16 16 16 16 16	19 19 18 18 19 18	 190 165 300	67
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXCB1 EXCB1 EXCB1 SB3 SB3 EXCB1 SB1	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4	16 16 16 16 16 16 16 16 16 16	19 19 18 18 19 18 19	 190 165 300	67
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXCB1 EXCB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 SB1	SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83	16 16 16 16 16 16 16 16 16 16 16	19 19 18 18 19 18 19	 190 165 300	67
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXCB1 EXCB1 SB3 SB3 EXCB1 SB1 SB1 SB1 SB1 SB1	SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6	16 16 16 16 16 16 16 16 16 16 16 16	19 19 18 18 19 18 19 18	 190 165 300	67 315
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 SB1 EXCB1 SB1 SB1 SB6	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10	16 16 16 16 16 16 16 16 16 16 16 16 16	19 19 18 18 19 18 19 18 19	 190 165 300	67
AVENUE &	EXCB1	SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 10	16 16 16 16 16 16 16 16 16 16 16 16 16	19 19 18 18 19 18 19 18 19 18	 190 165 300 	67
AVENUE &	EXCB1 SB1 SB1 SB1 EXCB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 EXCB1 SB6 SB6 SB6	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 14 HEAD 82	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 18 19 18 19 18 19 18 19	 190 165 300 	67 315
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 SB1 SB1 SB1 SKB1 EXCB1 SB6 SB6 SB6 EXCB1	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 84 SB5 HEAD 10 HEAD 10 HEAD 14 HEAD 82 SB7	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 18 19 18 19 18 19 18 19	 190 165 300 	67
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 SB1 SB1 EXCB1 SB6 SB6 SB6 EXCB1 SB7	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 10 HEAD 14 HEAD 82 SB7 HEAD 15	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 18 19 18 19 18 19 18 19	 190 165 300 	67
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 SB1 SB1 SB1 SKB1 EXCB1 SB6 SB6 SB6 EXCB1	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 84 SB5 HEAD 10 HEAD 10 HEAD 14 HEAD 82 SB7	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 18 19 18 19 18 19 18 19	 190 165 300 	67 315
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 EXCB1 SB6 SB6 SB6 EXCB1 SB7 SB7 EXCB1	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 14 HEAD 82 SB7 HEAD 15 HEAD 81 SB8	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 19 18 19 18 19 18 19 18 19 19 18 19 18 19 18 19	 190 165 300 	67 315
AVENUE &	EXCB1 SB1 SB1 SB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 EXCB1 SB6 SB6 SB6 EXCB1 SB7 SB7 EXCB1 SB8	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 14 HEAD 82 SB7 HEAD 81 SB8 HEAD 81	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19	 190 165 300 	67 315
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 EXCB1 SB6 SB6 SB6 SB6 EXCB1 SB7 SB7 SB7 EXCB1 SB8 SB8	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 14 HEAD 82 SB7 HEAD 15 HEAD 81 SB8 HEAD 1 HEAD 7	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19	 190 165 300 	67 315
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 SB1 EXCB1 SB6 SB6 EXCB1 SB7 SB7 EXCB1 SB7 SB7 EXCB1 SB8 SB8	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 10 HEAD 11 HEAD 12 HEAD 15 HEAD 11 HEAD 82 SB7 HEAD 15 HEAD 15 HEAD 81 SB8 HEAD 1 HEAD 81 SB8	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18		67 315
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 SB6 SB6 EXCB1 SB6 SB6 EXCB1 SB7 SB7 EXCB1 SB8 SB8 SB8 EXCB1	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 14 HEAD 82 SB7 HEAD 15 HEAD 81 SB8 HEAD 1 HEAD 17 HEAD 81 SB8 SB10	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18	 190 165 300 	67 315
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB6 SB6 SB6 EXCB1 SB7 SB7 EXCB1 SB8 SB8 SB8 SB8 SB8 SB8 SB8 SB8 SB8	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 14 HEAD 82 SB7 HEAD 84 SB7 HEAD 15 HEAD 81 SB8 HEAD 1 HEAD 81 SB8 HEAD 1 HEAD 7 HEAD 88 SB10 HEAD 9	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 19	190 165 300 245 777	67 315 225
AVENUE &	EXCB1 SB1 SB1 EXCB1 EXCB1 EXSB2 EXCB1 SB3 SB3 EXCB1 SB1 SB1 SB6 SB6 EXCB1 SB6 SB6 EXCB1 SB7 SB7 EXCB1 SB8 SB8 SB8 EXCB1	SSTON ST.) SB1 HEAD 11 HEAD 13 HEAD 86 EXSB2 HEAD 85 SB3 HEAD 5 HEAD 84 SB5 HEAD 4 HEAD 83 SB6 HEAD 10 HEAD 14 HEAD 82 SB7 HEAD 15 HEAD 81 SB8 HEAD 1 HEAD 17 HEAD 81 SB8 SB10	16 16 16 16 16 16 16 16 16 16 16 16 16 1	19 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18 19 18		67 315 225

			655.0515
INTERSECTION	FROM	TO	LF
EAST WASHINGTON	EXCB1	SB1	86
AVENUE &	SB1	SB2	125
LIVINGSTON STREET	SB2	SB3	120
	SB3	SB4	51
	SB4	SB5	135
	SB5	EXSB6	100
	EXSB6	EXSB7	55
	EXSB7	EXSB8	90
	EXSB8	SB9	130
_	SB9	SB10	110
	SB10	EXSB11	48
	EXSB11	EXCB1	125
•	SUBTOTAL (EAS	ST WASH AVE. &	1,175
	LIVINGS	TON ST.)	
EAST WASHINGTON	EXCB1	SB1	70
AVENUE &	SB1	EXSB2	165
FOURTH STREET	EXSB2	SB3	72
	EXSB3	EXSB4	120
	EXSB4	SB5	105
•	SB5	SB6	50
	SB6	SB7	195
	SB7	SB8	64
	SB8	EXSB9	120
	EXSB9	SB10	120
•	SB10	EXCB1	80
	SUBTOTAL (FAS	ST WASH AVE. &	1,161
		TH ST.)	,
		TOTAL	2,340
			:

SΔ1\/Δ	GE AND) R FINISTΔI I	MONOTURE

	SPV.0105.23
LOCATION	LS
EAST WASHINGTON AVENUE & LIVINGSTON STREET	1

SALVAGE AND REINSTALL BUS SIGNAL

LOCATION	SPV.0105.251 EACH
EAST WASHINGTON AVENUE & LIVINGSTON STREET	
EAST WASHINGTON AVENUE & FOURTH STREET	1

INTERSECTION	HEAD NO.	BASE NO.	EACH	EACH	EACH
EAST WASHINGTON	1	SB1	1		1
AVENUE &	2	SB9	1		1
LIVINGSTON STREET	3	SB10	1		1
	4	SB10	1		1
	5	SB2	1		1
	7	SB5	1		1
	8	SB2	1		1
	9	SB3	1		1
	10	SB3	1		1
	11	SB9	1		1
	16	SB4	1		1
	81	SB1		1	
	82	EXSB11		1	
	83	SB1		1	
	86	SB5		1	
	87	SB5		1	
	88	SB4		1	
,	SUBTOTAL (E.	AST WASH AVE. &	11	6	11
	LIVING	STON ST.)			
EAST WASHINGTON	1	SB8	1		1
AVENUE &	4	SB5	1		1
FOURTH STREET	5	SB3	1		1
	7	SB8	1		1
	9	SB10	1		1
	10	SB6	1		1
	11	SB1	1		1
	13	SB1	1		1
	14	SB6	1		1
	15	SB7	1		1
	81	SB7		1	
	82	SB6		1	
	83	SB5		1	
	84	SB3		1	
	85	EXSB2		1	
	86	SB1		1	
	87	SB10		1	
	88	SB8	==	1	==
					4-
		AST WASH AVE. &	10	8	10
	FOL	IRTH ST.)			
	_	TOTALS	21	14	21
		TOTALS	21	14	21

INSTALL SIGNAL MOUNTING HARDWARE

LOCATION	SPV.0105.259 LS	SPV.0105.260 LS
LIVINGSTON	1	
FOURTH EARLY WORKS		1

1,220

1,700

TEMPORARY TRAFFIC SIGNAL									
	SPV 0105 226	SPV.0105.228							
LOCATION	LS	LS							
LIVINGSTON	1								
FOURTH EARLY WORKS		1							

REMOVING	TRAFFIC SIGNA	L S
	CDV 010F 227	CDV 010F 220
	SPV.0105.227	SPV.0105.229
LOCATION	LS	LS
·		
LIVINGSTON	1	
FOURTH EARLY WORKS		1



CITY OF MADISON, DANE COUNTY, WI CONTRACT NO: 60631225C

60631225P

TRAFFIC SIGNAL BASES, POLES, MONOTUBE ARMS, PUSH BUTTONS, AND LUMINAIRES

INTERSECTION	SIGNAL BASE NO.	SPV.0060.256 INSTALL PEDESTAL BASES (GREEN) EACH	SPV.0060.257 INSTALL TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE (GREEN) EACH	SPV.0060.247 INSTALL POLE 20-FOOT 7 GAUGE (GREEN) EACH	SPV.0060.248 INSTALL POLE 30-FOOT 7 GAUGE SINGLE MOUNT (GREEN) EACH	SPV.0060.244 INSTALL LIGHTING ASSEMBLY TYPE III POLE EACH	SPV.0060.249 INSTALL TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT (GREEN) EACH	SPV.0060.270 INSTALL TRAFFIC SIGNAL TROMBONE ARM 12-FT (GREEN) EACH	SPV.0060.253 INSTALL TRAFFIC SIGNAL TROMBONE ARM 20-FT (GREEN) EACH	SPV.0060.255 INSTALL TRAFFIC SIGNAL TRO MBO NE ARM 25-FT (GREEN) EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	SPV.0060.269 SALVAGE AND REINSTALL PEDESTRIAN PUSH BUTTON EACH	SPV.0060.242 INSTALL LIGHTING ASSEMBLY TYPE III EACH	SPV.0060.260 SALVAGE AND REINSTALL EVP DETECTOR EACH	SPV.0060.262 SALVAGE AND REINSTALL GRIDSMART DETECTION CAMERA EACH
EAST WASHINGTON	SB1	1					1				1				
AVENUE &	SB2		1	1				1							
LIVINGSTON STREET	SB3													1	
	SB4	1					1								
	SB5	1					1				1				
	SB9		1	1				1							==
	SB10	==		==		==					==	==	==	1	1
	SUBTOTAL (EAST WASH AVE. & LIVINGSTON ST.)	3	2	2			3	2			2			2	1
EAST WASHINGTON	SB1		1			1					1		1		
AVENUE &	EXSB2										1				
FOURTH STREET	SB3		1		1						1		1		1
	SB5		1		1				1		1		1	1	1
	SB6	1					1				1				
	SB7		1			1					1		1		
	SB8	1					1					1			
	SB10		1	1						1		1		1	
	SUBTOTAL (EAST WASH AVE. & FOURTH ST.)	2	5	1	2	2	2		1	1	6	2	4	2	2
	TOTALS	5	7	3	2	2	5	2	1	1	8	2	4	4	3

60631225P CITY OF MADISON, DANE COUNTY, WI CONTRACT NO: 60631225C MISCELLANEOUS QUANTITIES
BUS RAPID TRANSIT
CITY OF MADISON

60631225P

	DILL BOXES	AATE BY
INSTALL CONDUIT INTO EXISTING ITEM	PULL BOXES	CONCRETE BASES
652.0700.S INSTALL CONDUIT INTO EXISTING ITEM LOCATION EACH Fourth 4 TOTAL 4	SPV.0060.201 INSTALL ELECTRICAL PULL BOX TYPE I SECTION NO. LOCATION EACH Livingston LPB1 229+96, 76' LT 1 LPB2 229+50, 75' LT 1 LPB3 229+20, 57' LT 1 LPB4 230+30, 57' LT 1 LPB5 230+01, 59' RT 1 LPB6 229+94, 80' RT 1 LPB7 229+55, 79' RT 1 LPB7 229+55, 79' RT 1 Few LPB1 256+63,51' LT 1 Dickinson LPB1 269+73,50' LT 1 Fourth LPB1 308+58, 68' LT 1 Fifth LPB1 314+79, 55' LT 1 Oak LPB1 349+18, 53' LT 1 TOTAL 12	SPV.0060.245 CONCRETE BASES TYPE LB-SP SECTION NO. LOCATION EACH Livingston 53 228+72, 57' LT 1 54 230+18, 59' RT 1 Few 95 255+82, 52' LT 1 Dickinson 115 268+92, 49' LT 1 Fifth 199 314+81, 53' LT 1 TOTAL 6 SPV.0060.245 CONCRETE BASES TYPE LB-SP SECTION NO. LOCATION EACH Livingston 53 228+72, 57' LT 1 Each 10 Modern 10
SPV.0060.242 SPV.0060.244 INSTALL INSTALL LIGHTING LIGHTING LIGHTING ASSEMBLY ASSEMBLY ASSEMBLY BASE TYPE III TYPE III POLE	204.0195 653.0905 SPV.0060.243 REMOVING REMOVING REMOVING REMOVING STREET CONCRETE BASES PULL BOXES LIGHTING ASSEMBLY	TEMPORARY LIGHTING SPV.0105.257 TEMPORARY STREET LIGHTING EARLY WORKS LOCATION EACH Project 1 TOTAL 1

60631225P MQ-1

					NONMETALLIC		NONMETALLIC	NONMETALLIC	CONDUIT			NUMBER OF		NUMBER OF	SPV.0090.203 ELECTRICAL WIRE	655.0620 ELECTRICAL WIRE LIGHTING	WIRE
					SCHEDULE 40	SCHEDULE 40	SCHEDULE 80		SPECIAL		WIRE	WIRES	LENGTH	WIRES	LIGHTING 14-3		LIGHTING
				NUMBER OF	2-INCH	3-INCH	2-INCH	3-INCH	2-INCH	3-INCH	SLACK	(INCLUDING	OF WIRE	(INCLUDING	UF GROUNDED	8 AWG	4 AWG
ION	LOC. TO	LOC.	DISTANCE	CONDUITS	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	LF	GROUND WIRE)	IN POLE	GROUND WIRE)	EACH	L.F.	L.F.
ston	E4	5 0	450	4	25						c	4	20	4	-	450	477
	51 53	53 LPB3	153 48	1	35 48	•	•	-	•	•	6 18	4	38	1	38	159 66	477
	LPB3	LPB3	40 40	1	40 40	•	-	•	•	•	30	4			•	66 70	198
_	LPB2	LPB2 LPB1	46	2	- 40	-	-	-		92	30	4			•	76	210 228
	LPB1	EW1	13	2		26	-	-			23	16				144	432
	LPB1	LPB4	43	1	43	-	-	_	-	-	30	4				73	219
_	LPB4	57	125		5	-	-		-	•	18	4				143	429
	LPB4	55	16	1	16						18	8	38	1	38	68	204
	LPB1	LPB5	141	2		32	-	-			30	8			•	342	1026
_	LPB5	54	17	1	17	-	-				18	4	38	1	38	35	105
	54	56	150	1	30	-	-	-			6	4				156	468
	LPB5	LPB6	22	1	22	-	-	-			30	4				52	156
_	LPB6	LPB7	40	2	-	-	-	-	-	80	30	4				70	210
	LPB7	52	101	1	45	-	-	-			18	4			•	119	357
			SECTI	ON SUBTOTAL	301	58	0	0	0	172					114	1573	4719
rly																	
	71	73	167	1	34	-	-	-	-		6	4	38	1	38	173	519
	73	75	-	1	65	-	-	-	-			-				-	
			SECTI	ON SUBTOTAL	99	0	0	0	0	0					38	173	519
V																	
	93	95	86	1	86	-	-	-	-	-	3	4	38	1	38	89	267
	93	95	45	1	-	-	-	-	36	-	3	4			•	48	144
_	95	LPB1		11	•	-	-	82	•	•		•			•	•	
	LPB1	97	79	1	79	-	-	-	-		18	3			•	97	194
	LPB1	8109	56	1	35	-	-	-	-	-	18	3			•	74	148
	92	94	147	1	•	-	-	-	81	-	6	3			•	153	306
_	94	96	•	1	•	-	•	•	128	•	•	•			•	•	-
			SECT	ON SUBTOTAL	200	0	0	82	245	0					38	461	1059
son																	
	113	115	128	1	42	-	-	-	-	•	6	4	38	1	38	134	402
	115	LPB1	82	1	-	-	-	-	82	•	18	4			•	100	300
_	LPB1	117	80	1	5	•	•	•	•	•	18	4			•	98	294
			SECT	ON SUBTOTAL	47	0	0	0	82	0					38	332	996
rth																	
	185	EXPB	127	•	-	-	•	•	•	•	18	4			•	145	435
	EXPB	187	8	1	8	-	•	•	•	•	18	8	38	1	38	52	156
_	EXPB	EXPB	38	2	76	•	•	•	•	•	30	4			•	68	204
	EXPB	EXLP	160	•	-	-	-	-	•	•	18	3			•	178	356
	EXPB	LPB1	46	2	•	-	-	-	•	92	18	7	••	á	•	128	320
_	LPB1	189	13	1	13	-	-	-	-	•	18	11	38	1	38	93	248
	LPB1	EXPB	49	1	49	-	-	-	-	•	30	4			•	79	237
	EXPB	191	31	-	-	-	-	-	-	•	18	4			•	49	147
_	184 EVDD	EXPB	147	- 4	42	•	•	•	-	•	18	4	^^	4	- 20	165	495
	EXPB	186	13	1	13	-	-	-	-	•	54	8	38	1	38	134	402
	EXPB	LPB2	42	1	42	-	-	-	-	•	18	4			•	60	180
_	LPB2	LPB3	33	1	33	•	•	•	-	•	30	4	^^	4	•	63	189
	LPB3	188	11	1	11	-	-	•	-	•	61	8	38	1	38	144	432
	LPB3	190	86	1	86	-	-	-	-	•	18	4	38	1	38	104	312
_	190	192	119	1	27	-	-	•	-	-	6	4			400	125	375
			SECTI	ON SUBTOTAL	358	0	0	0	0	92					190	1587	4488
1	EVDD	1.054		•						450	00					400	
	EXPB	LPB1	79	2	•	-	-	-	-	158	30	4	20		•	109	327
	LPB1	199	2	1	2	-	-	-	-	•	18	8	38	1	38	40	120
_	LBP1	201	127	1	51	-	•	•	•	450	18	4			•	145	435
			SECT	ON SUBTOTAL	53	0	0	0	0	158					38	294	882
(. == :		_							4-	_					
	255	LPB1	95	1	90	-	-	-	-	•	18	4			•	113	339
	LPB1	257	96	1	-	-	34	-	-	•	18	4			•	114	342
_			-	ON CURTOTAL	- 00	-	- 24	•	•	•	•	•			•	- 227	
			SECT	ION SUBTOTAL	90	0	34	0	0	0					0	227	681

60631225P

			638.2102	638.2602		
		SIGN		REMOVING	SIGN	
		SIZE	SIGNS	SIGNS	MOUNTED	
SIGN	SIGN	WXH	TYPE II	TYPE II	ON/SAME	
#	CODE	IN	EACH	EACH	POST AS	REMARKS
	CAT. 0010					
1M-01	PARK	18X24	1			NO STOPPING STANDING OR PARKING
BUS	BUS	60X15		1		METRO BUS STOP SIGN
2M-01	D3-1	15X9	1			SMALL STREET SIGNS (N LIVINGSTON & E WASHINGTON)
2M-02	D3-1A	30X15	1			OVERHEAD STREET SIGN (LIVINGSTON ST)
BUS	BUS	60X15		1		METRO BUS STOP SIGN
BUS	BUS	60X15		1		METRO BUS STOP SIGN
2M-03	D3-1A	30X15	1			OVERHEAD STREET SIGN (LIVINGSTON ST)
2M-04	D3-1	15X9	1			SMALL STREET SIGNS (S LIVINGSTON & E WASHINGTON)
2M-05	R3-17 (MOD)	30X24	1			BIKE LANE (BICYCLIST SYMBOL)
2M-06	R3-17 (MOD)	30X24	1		PARKING	BIKE LANE (BICYCLIST SYMBOL)
2M-07	R6-2R	30X24	1		R3-53R	ONE WAY
3M-01	W11-2	30X30	1		W16-7L	PEDESTRIAN CROSSING SYMBOL
3M-02	R1-1	30X30	1		R3-53R	STOP SIGN
3M-03	R1-1	30X30	1		R3-53R	STOP SIGN
3M-04	R3-17 (MOD)	30X24	1		PARKING	BIKE LANE (BICYCLIST SYMBOL)
4M-01	R2-1	24X30	1		PARKING	SPEED LIMIT 25 MPH
4M-02	R3-17 (MOD)	30X24	1			BIKE LANE (BICYCLIST SYMBOL)
4M-03	R1-1	30X30	1		R6-2R	STOP SIGN
5M-01	PARK	18X24	1		PARKING	NO STOPPING STANDING OR PARKING
5M-02	W11-2	30X30	1		W16-7R	PEDESTRIAN CROSSING SYMBOL
5M-03	R1-1	30X30	1			STOP SIGN
6M-01	R3-17 (MOD)	30X24	1			BIKE LANE (BICYCLIST SYMBOL)
6M-02	R1-1	30X30	1		R6-2R	STOP SIGN
7M-01	R3-17 (MOD)	30X24	1			BIKE LANE (BICYCLIST SYMBOL)
7M-02	D3-1A	30X15	1		8R-01	OVERHEAD STREET SIGN (FOURTH ST)
7R-01	BUS	30X15		1	8M-02	BUS SIGNAL
7M-03	D3-1A	30X15	1		8R-02	OVERHEAD STREET SIGN (FOURTH ST)
7R-02	BUS	30X15		1	8M-03	BUS SIGNAL
7M-04	R3-17 (MOD)	30X24	1		PARKING	BIKE LANE (BICYCLIST SYMBOL)
8M-01	S1-1	36X36	1		S16-7L	SCHOOL ADVANCE
BUS	BUS	60X15		1		METRO BUS STOP SIGN

PROJECT TOTALS: 25

6

MQ-EW1

	646.1020	646.1545	646.5020	646.5220	646.7405	646.7420	646.8120	646.9200	SPV.0090.101	SPV.0090.102
				MARKING	MARKING	MARKING			PAVEMENT MARKING	DAY/EMENT
	MARKING	MARKING LINE GROOVED WET	ARROW EPOXY	SYMBOL EPOXY	CROSSWALK PA I NT	CROSSWALK EPOXY	MARKING		EPOXY CONTINENTAL	PAVEMENT MARKING
	LINE EPOXY	REF CONTRAST	(BIKE	(BIKE	TRANSVERSE	TRANSVERSE		MARKING	CROSSWALK	EPOXY STOP
	4- I NCH	EPOXY4-INCH	LANE)	LANE)	LINE 6-INCH	LINE 6-INCH	EPOXY	REMOVAL	18-INCH	LINE 24-INCH
	(YELLOW)	(WHITE)	(WHITE)	(WHITE)	(WHITE)	(WHITE)		LINE WIDE		(WHITE)
LOCATION	LF	LF	EACH	EACH	LF	LF	LF	LF	LF	LF
WEBSTER ST & E WASHINGTON										
LIVINGSTON ST & E WASHINGTON		196		2		138	215	81		33
BREARLYST & E WASHINGTON		118		2		122	263		48	26
FEW ST & E WASHINGTON		375		1		59	195		96	14
DICKINSON ST & E WASHINGTON	30	76		1		66	74		24	16
THIRD ST & E WASHINGTON		225		1		105	55			12
FOURTH ST & E WASHINGTON		202		2		179	119	46	-	33
FIFTH ST & E WASHINGTON		54				89	50			
E JOHNSON ST & E WASHINGTON		189	1	1		10				
NOAK & E WASHINGTON		78		1	38	100		62		18
TOTAL 0010	30	1,513	1	11	38	868	971	189	168	152

TRAFFIC CONTROL

SCC Code	ITEM NUMBER	DESCRIPTION	UNITS	QUANTITY
40.08	643.0300	Traffic Control Drums	DAY	259
40.08	643.0410	Traffic Control Barricades Type II	DAY	140
40.08	643.0420	Traffic Control Barricades Type III	DAY	210
40.08	643.0705	Traffic Control Warning Lights Type A	DAY	350
40.08	643.0715	Traffic Control Warning Lights Type C	DAY	259
40.08	643.0800	Traffic Control Arrow Boards	DAY	119
40.08	643.0900	Traffic Control Signs	DAY	350
40.08	643.1000	Traffic Control Signs Fixed Message	SF	1543
40.08	643.1050	Traffic Control Signs PCMS	DAY	119
40.08	643.5000	Traffic Control	EACH	1
40.08	644.1410	Temporary Pedestrian Surface Asphalt	SF	1440
40.08	644.1420	Temporary Pedestrian Surface Plywood	SF	1440
40.08	644.1430	Temporary Pedestrian Surface Plate	SF	1440
40.08	644.1601	Temporary Pedestrian Curb Ramp	DAY	140
40.08	644.1810	Temporary Pedestrian Barricade	LF	2000
40.08	649.0105	Temporary Marking Line Paint 4-Inch	LF	8500