

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

OCTOBER 30, 2012

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

*[Signature]* 12/14/12  
City Engineer Date

INDEX OF SHEETS

SHEET NO.	TITLE
1	PROJECT OVERVIEW & ALIGNMENTS
D1	TYPICAL SECTIONS & DETAILS
D2-D4	E. WASHINGTON AVENUE GRADING PLAN
D5	E. WASHINGTON AVE PLAN & PROFILE
PI-P2	UTILITIES PLAN & PROFILE AND DETAILS
UI-U3	WATER MAIN PLAN & PROFILE AND DETAILS
WI-W4	ELECTRICAL PLAN AND DETAILS
E1-E11	TRAFFIC CONTROL PLAN
TC1-TC23	PAVEMENT MARKING PLAN
MI-M2	STREET CROSS SECTIONS

## EAST WASHINGTON AVENUE & LIVINGSTON STREET INTERSECTION IMPROVEMENTS - 2013

CITY PROJECT NO. 53W1409  
CONTRACT NO. 6906

STREET DESIGNED BY:



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	[Symbol]
COMBUSTIBLE FLUIDS	[Symbol]

## CONSTRUCTION PROJECT LOCATION

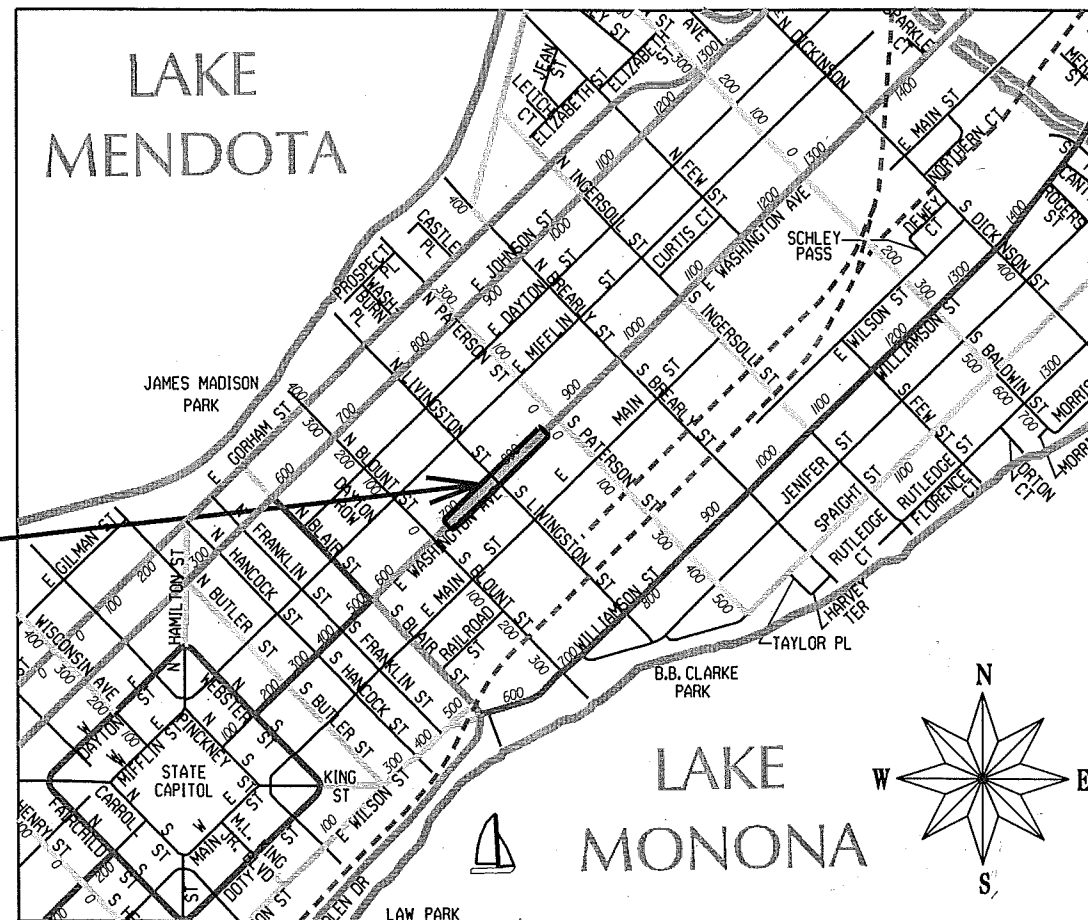
NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.40% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

EARTH WORK SUMMARY:

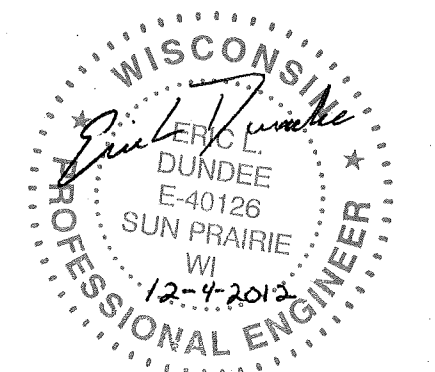
EXCAVATION CUT (MEASURED PLAN QUANTITY) ..... 1480 C.Y.  
ESTIMATED UNDISTRIBUTED UNDERCUT ..... 300 C.Y.  
TOTAL UNCLASSIFIED EXCAVATION CUT ..... 1780 C.Y.



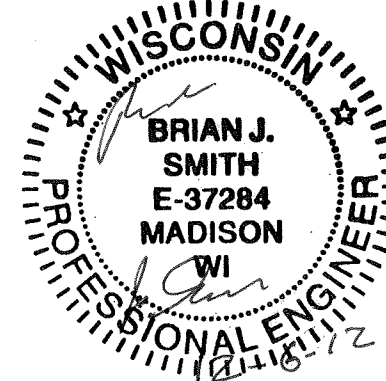
TRAFFIC CONTROL & PAVEMENT MARKINGS DESIGNED BY:



STORM & SANITARY SEWER DESIGNED BY:

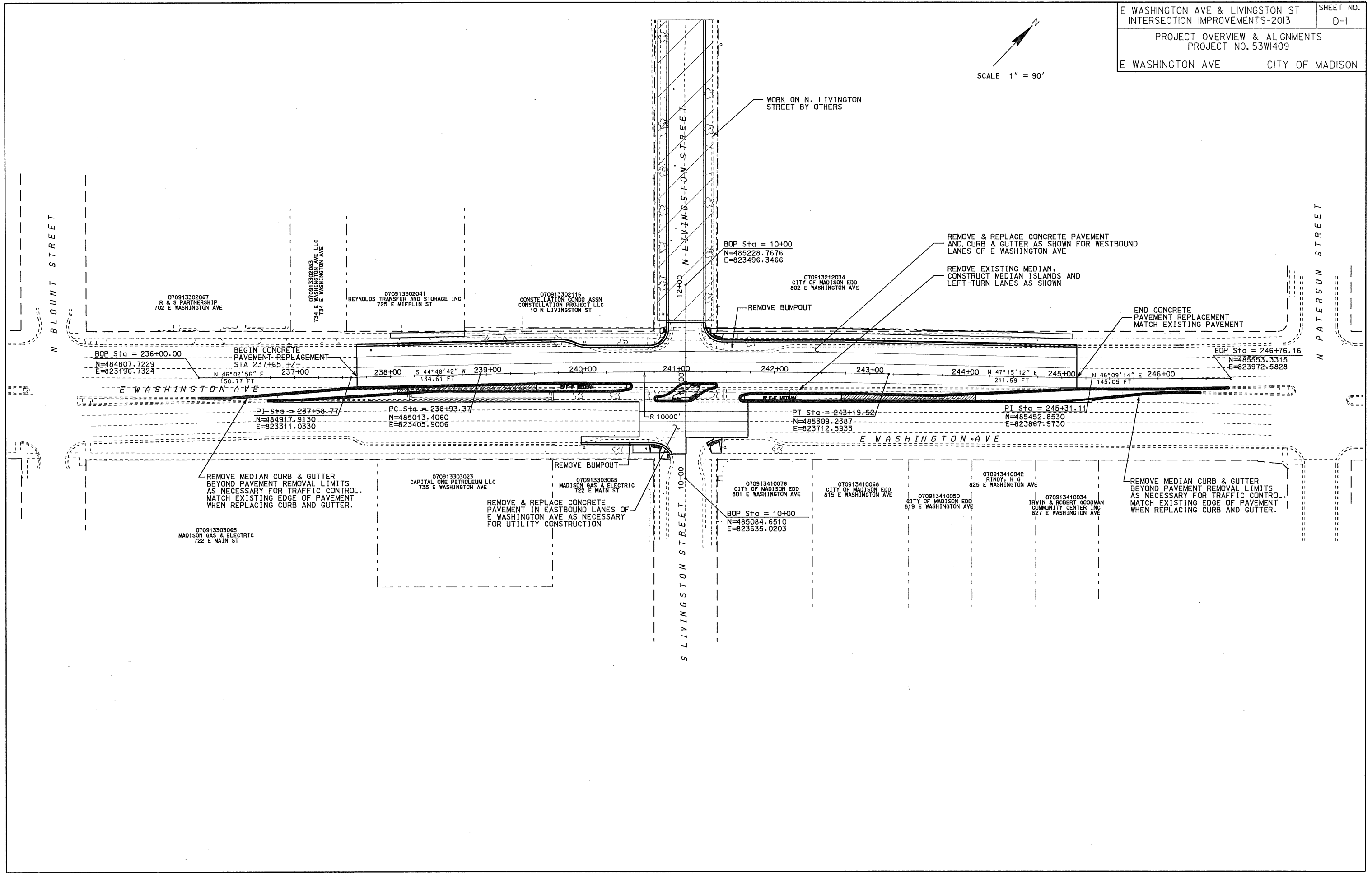
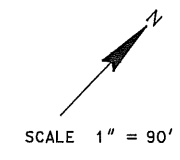


ELECTRICAL DESIGNED BY:



WATER MAIN DESIGNED BY:



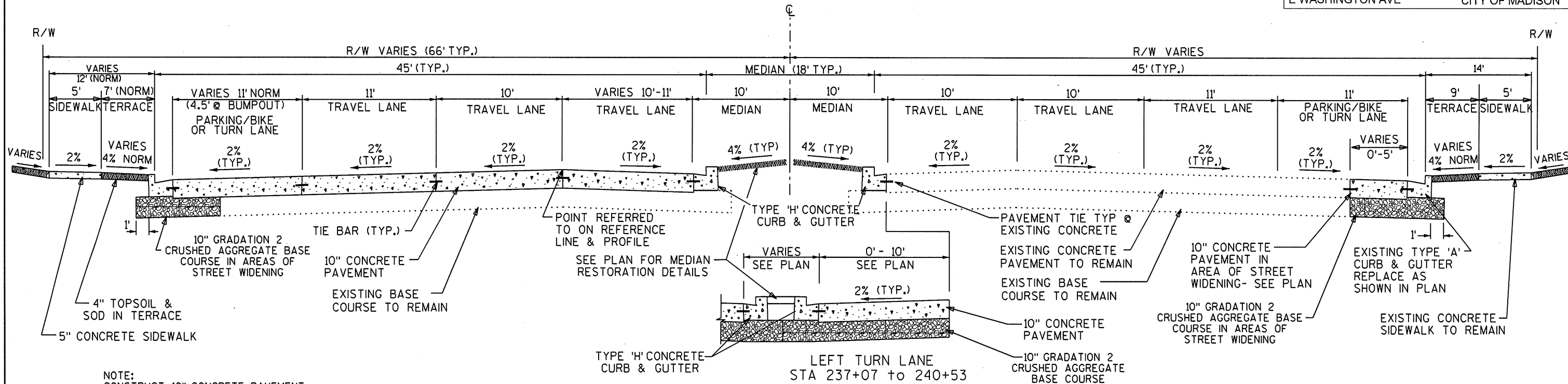


PLOT SCALE: \_\_\_\_\_

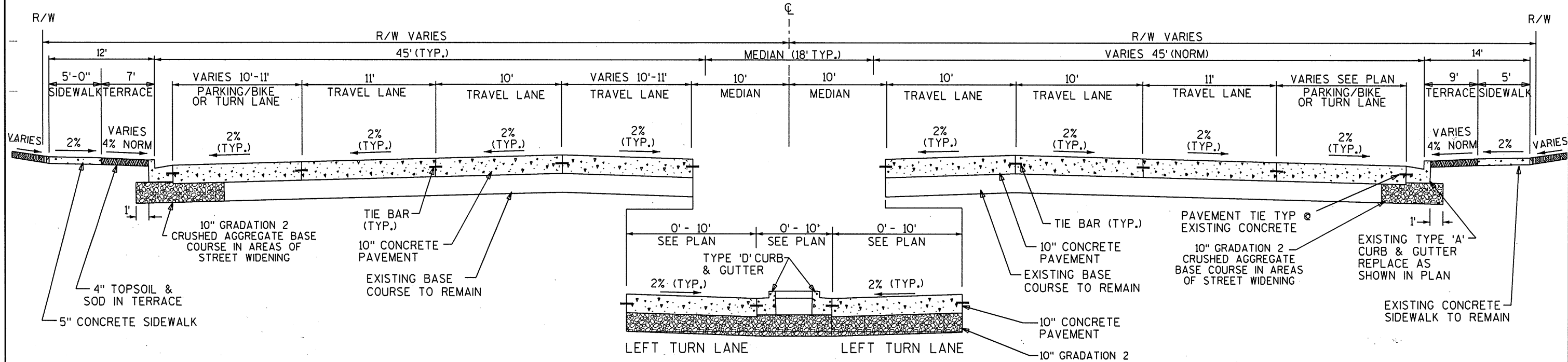
PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**FINISHED TYPICAL SECTION  
EAST WASHINGTON AVENUE  
STA 237+65 to STA 240+53**

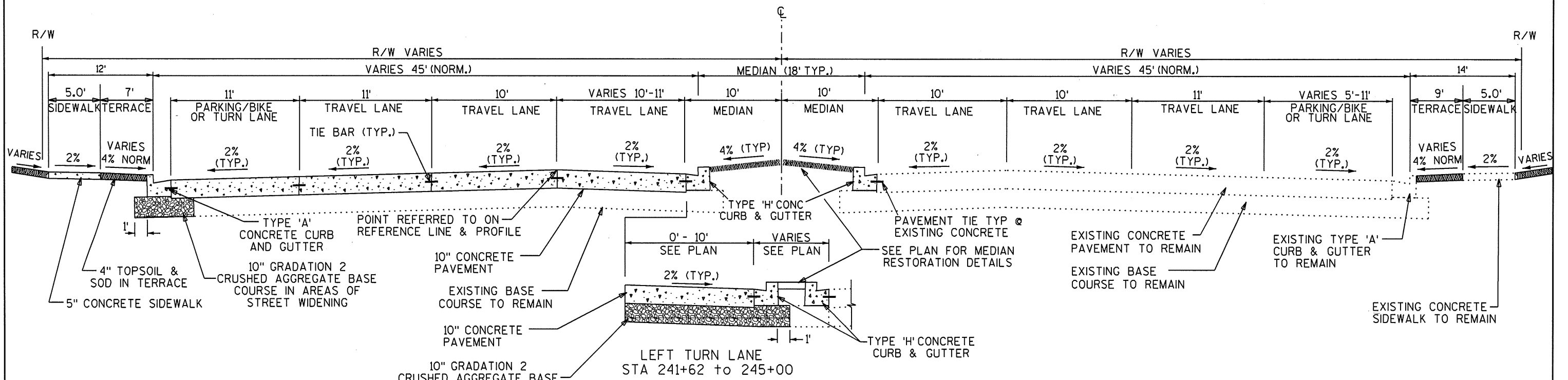


**FINISHED TYPICAL SECTION  
EAST WASHINGTON AVENUE  
STA 240+53 to STA 241+62**

NOTE:  
CONSTRUCT 10" CONCRETE PAVEMENT  
PER S.D.D. 3.10 & 3.11

NOTES:  
CONSTRUCT 10" CONCRETE PAVEMENT  
PER S.D.D. 3.10 & 3.11  
SEE PLAN FOR MEDIAN  
RESTORATION DETAILS

PLOT SCALE: \_\_\_\_\_  
PLOT NAME: \_\_\_\_\_  
REV. DATE: \_\_\_\_\_  
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTE:  
CONSTRUCT 10" CONCRETE PAVEMENT  
PER S.D.D. 3.10 & 3.11

**FINISHED TYPICAL SECTION  
EAST WASHINGTON AVENUE  
STA 241+62 to STA 245+17**

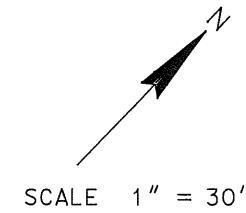
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PLOT NAME:

REV. DATE:

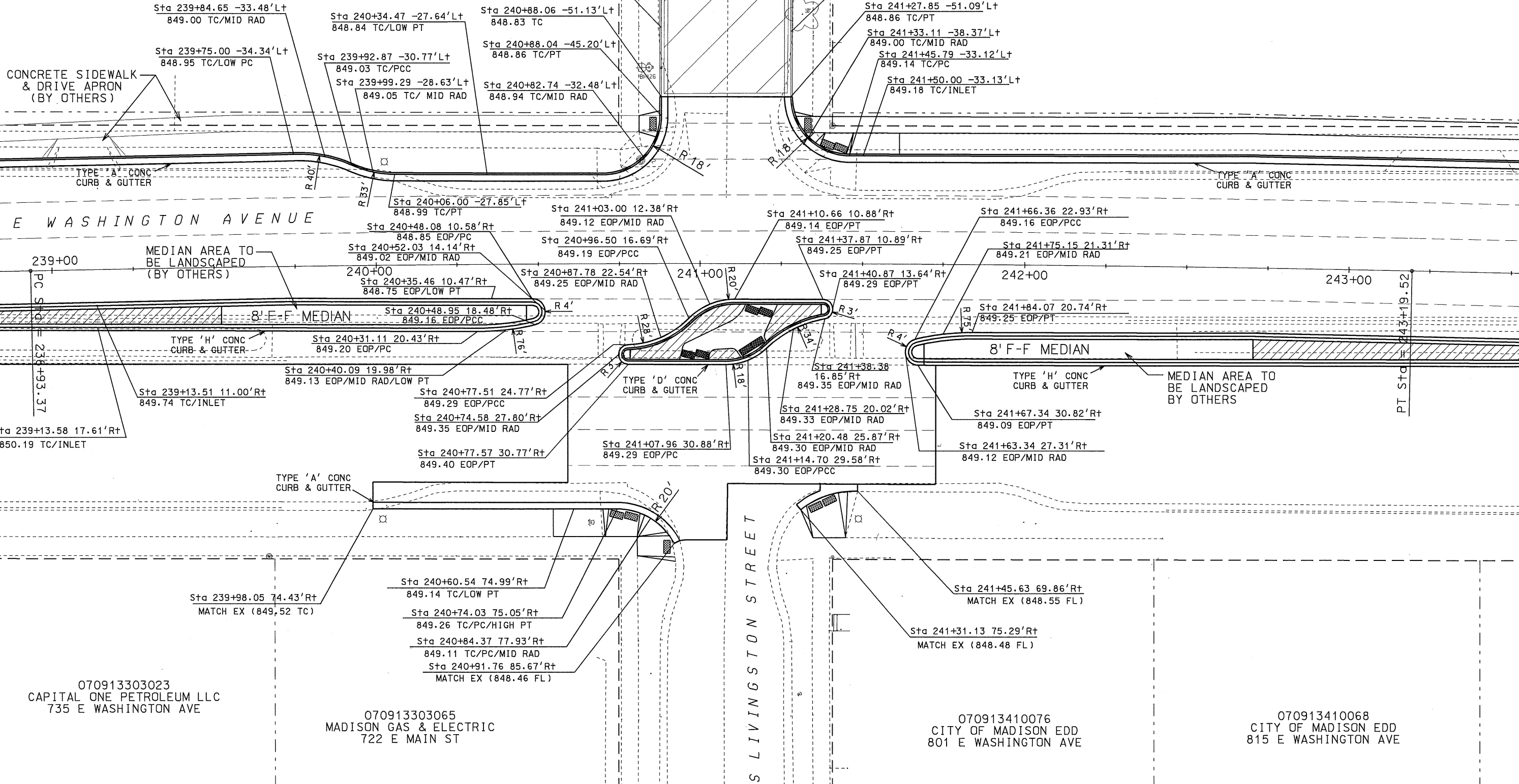
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

070913212034  
 CITY OF MADISON EDD  
 802 E WASHINGTON AVE



070913302116  
 CONSTELLATION CONDO ASSN  
 CONSTELLATION PROJECT LLC  
 10 N LIVINGSTON ST

WORK ON N. LIVINGSTON ST  
 (BY OTHERS)



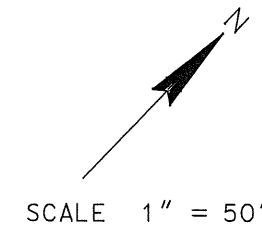
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 CAPITAL ONE PETROLEUM LLC  
 735 E WASHINGTON AVE

070913303065  
 MADISON GAS & ELECTRIC  
 722 E MAIN ST

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 CITY OF MADISON EDD  
 801 E WASHINGTON AVE

070913410068  
 CITY OF MADISON EDD  
 815 E WASHINGTON AVE

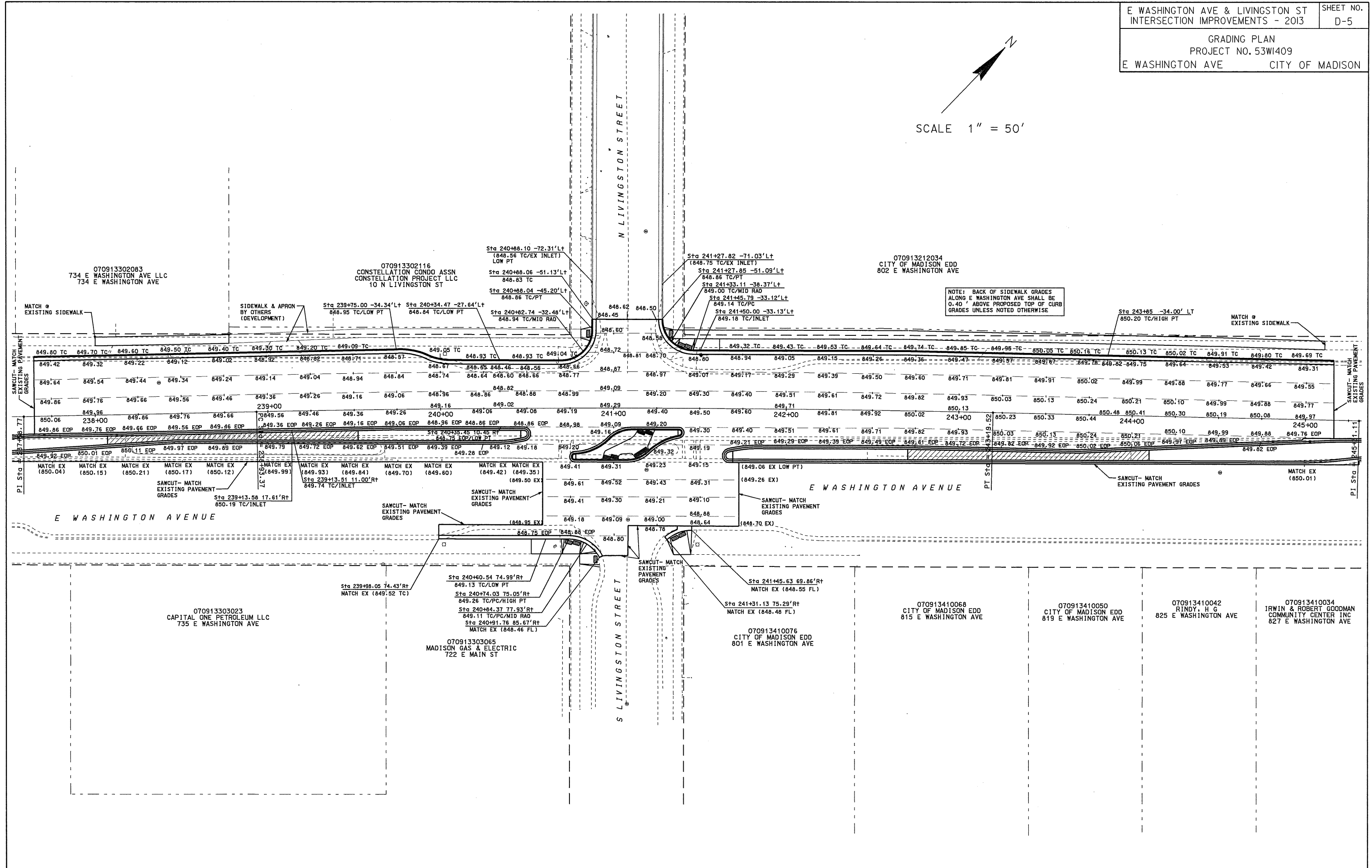
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 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: 1" = 50'

REV. DATE:

PLOT NAME:



ORIGINATOR: CITY OF MADISON - STREETS DIVISION

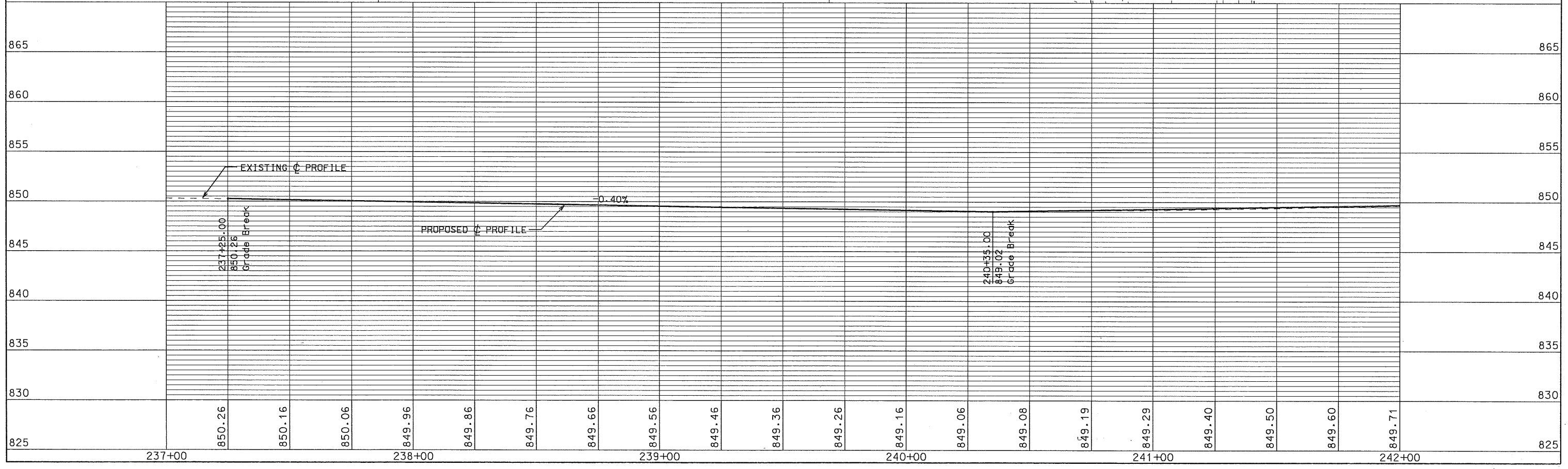
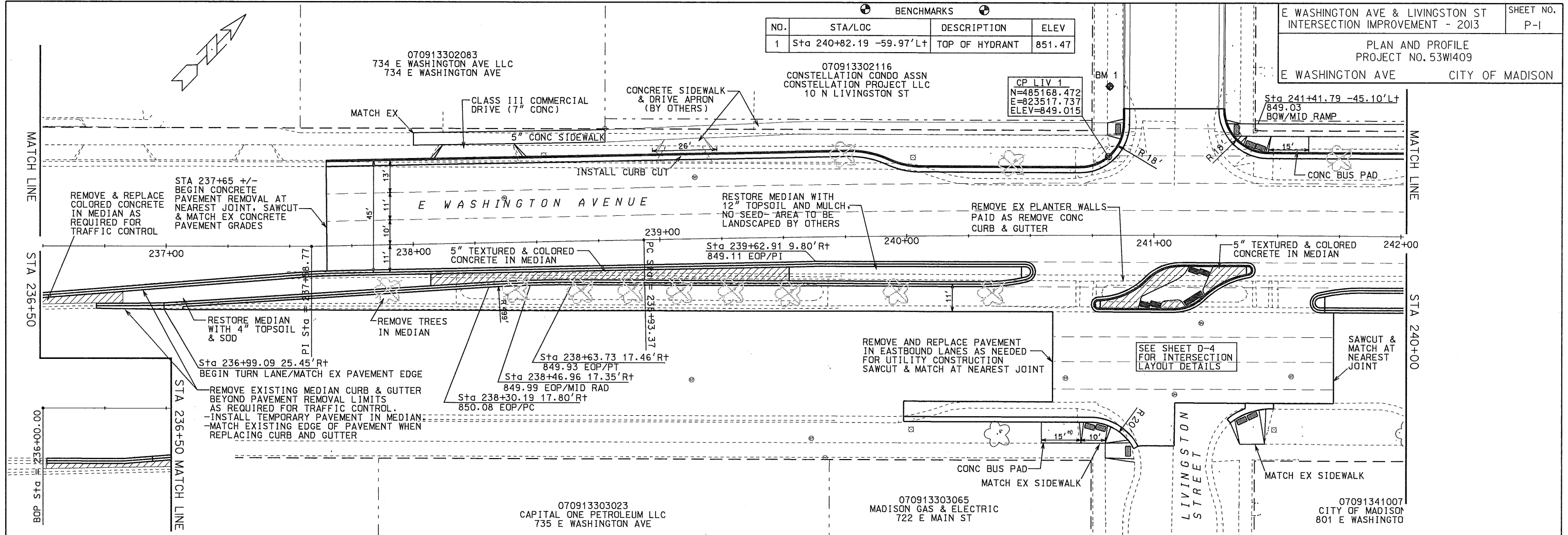
BENCHMARKS			
NO.	STA/LOC	DESCRIPTION	ELEV
1	Sta 240+82.19	-59.97'Lt TOP OF HYDRANT	851.47

E WASHINGTON AVE & LIVINGSTON ST  
INTERSECTION IMPROVEMENT - 2013

PLAN AND PROFILE  
PROJECT NO. 53W1409

E WASHINGTON AVE CITY OF MADISON

SHEET NO.  
P-1

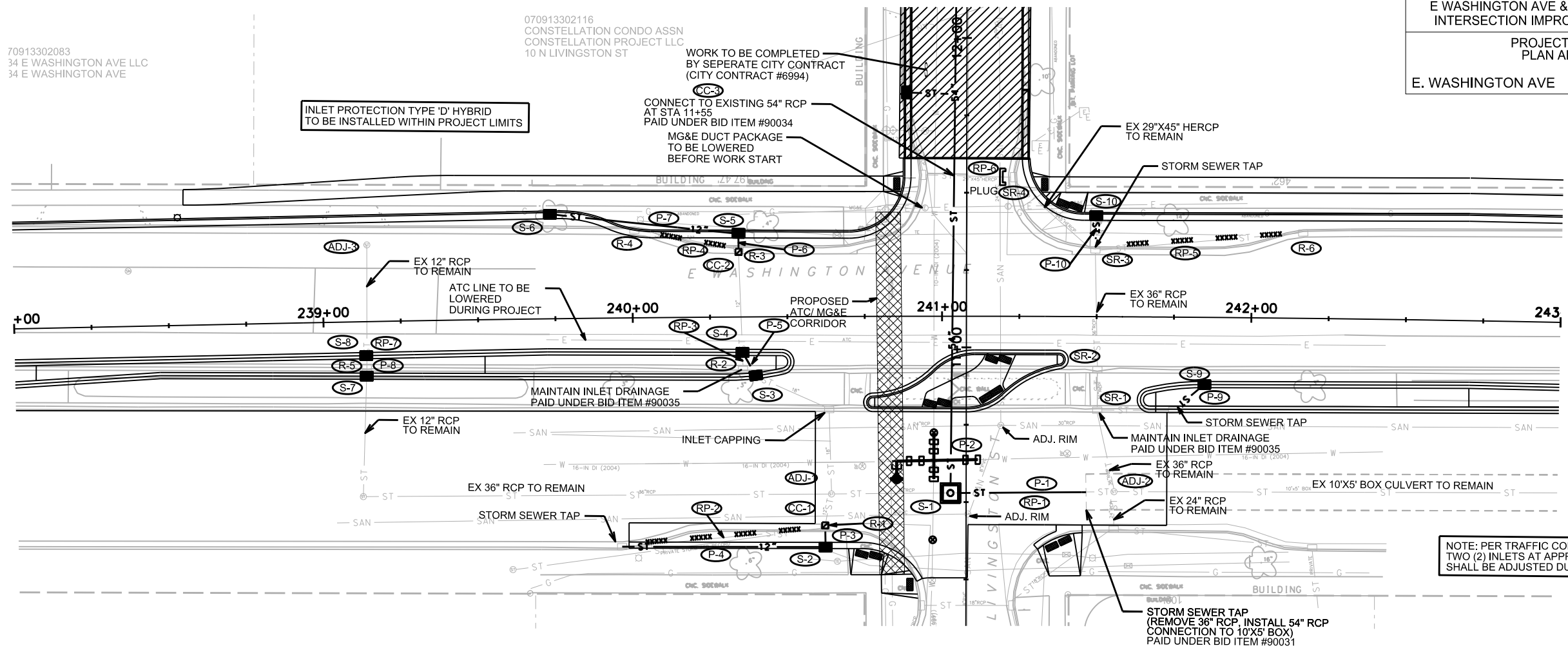


ORIGINATOR: CITY OF MADISON, STREETS DIVISION

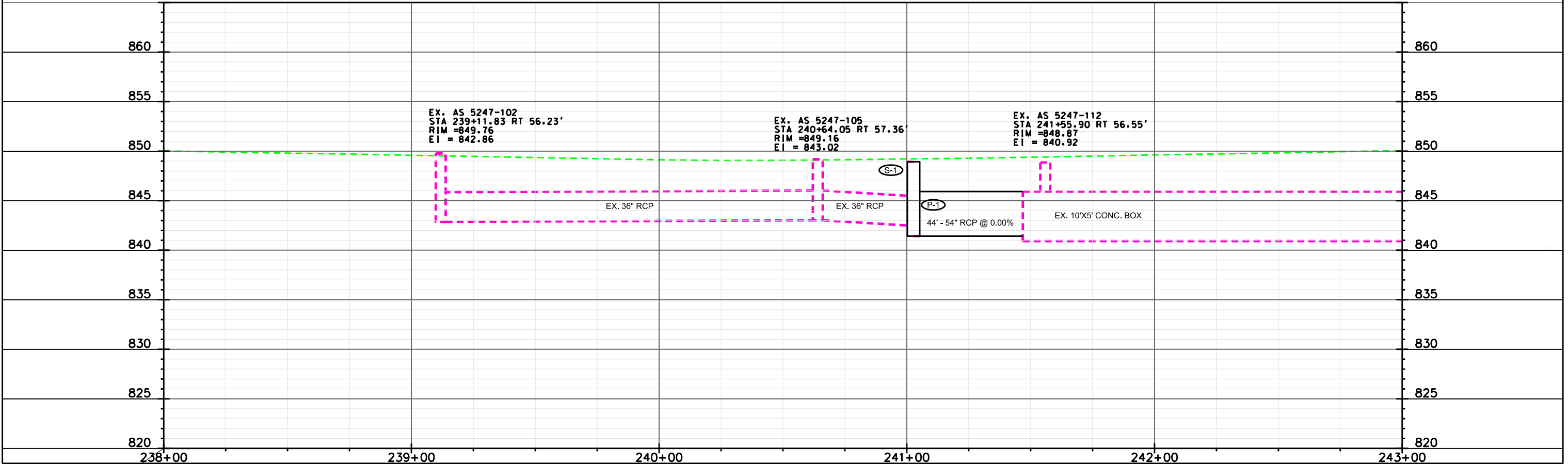
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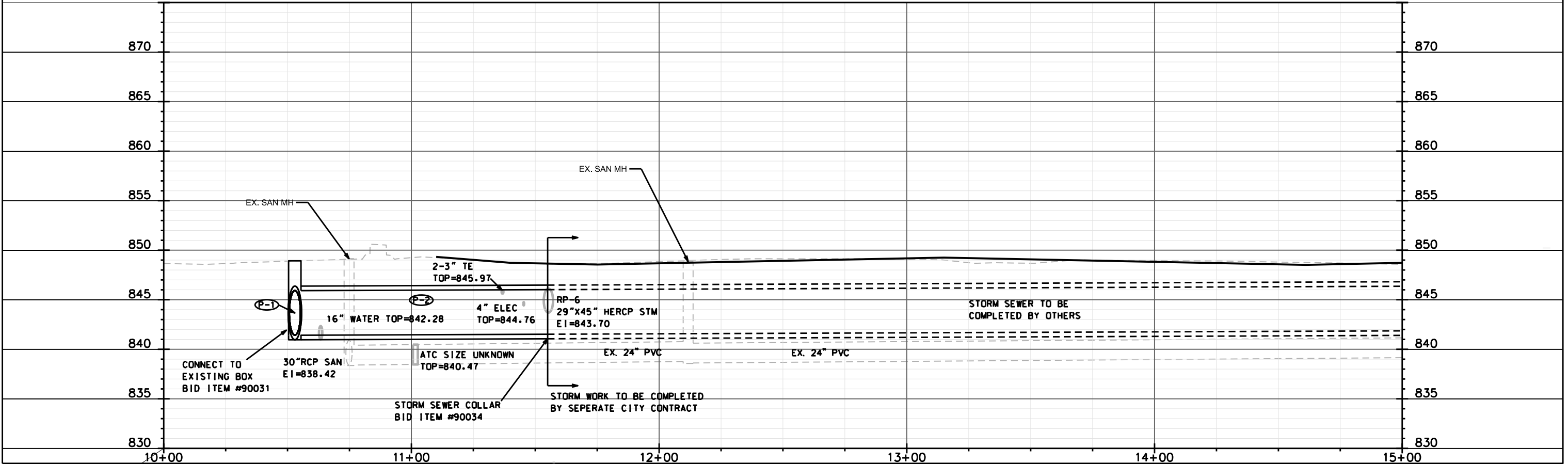
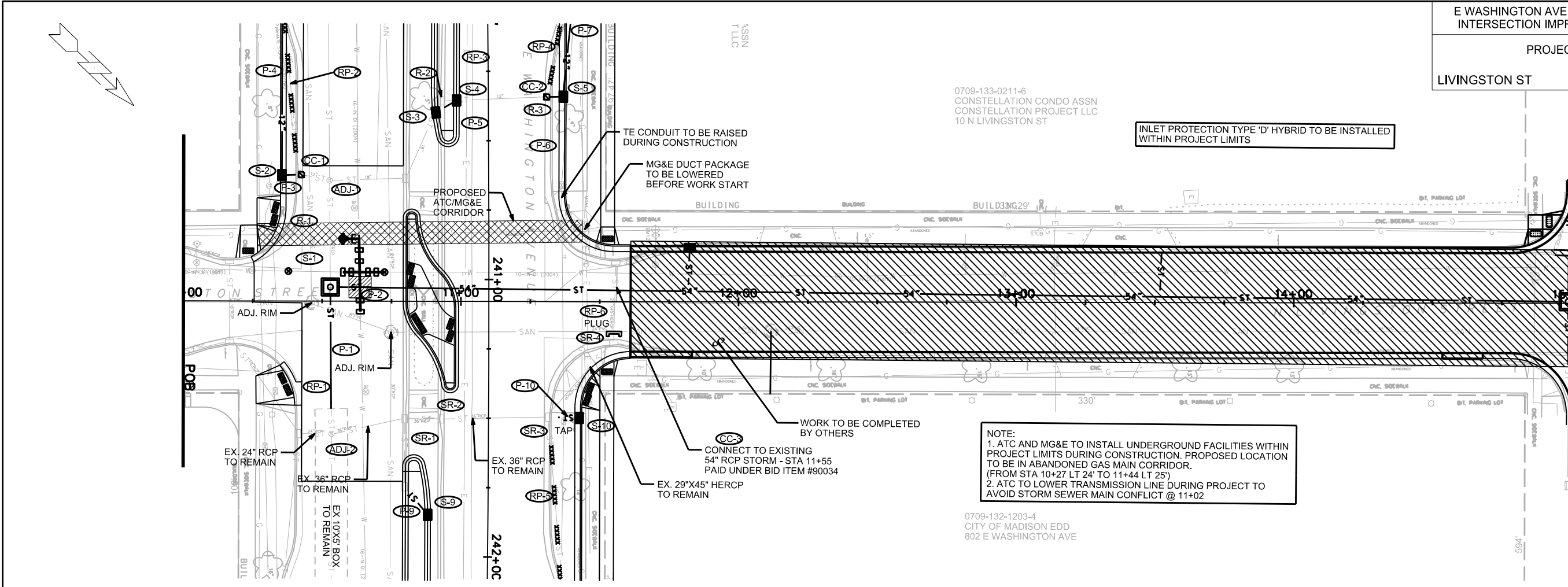




NOTE: PER TRAFFIC CONTROL PHASING TWO (2) INLETS AT APPROX. STA. 246+00 SHALL BE ADJUSTED DURING PROJECT.



PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# SEWER SCHEDULE

## ALIGNMENT CODES:

'EW' = EAST WASHINGTON AVE  
'L' = LIVINGSTON ST

E WASHINGTON AVE & LIVINGSTON ST

SHEET NO.

INTERSECTION IMPROVEMENT - 2013

U-3

PROJECT NO. 53W1409

SEWER SCHEDULE

CITY OF MADISON

## STORM SEWER STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	241'EW'+02.74	RT-57.12	5X5 SAS	849.19	841.42	7.77	FP, W/ R-1550-0054
S-2	240'EW'+62.08	RT-74.50	H INLET	849.13	844.87	4.26	W/ R-3067-7004
S-3	240'EW'+39.65	RT-19.21	H INLET	849.56	844.92	4.64	FP, W/ R-3067-7004, (2)
S-4	240'EW'+35.45	RT-11.47	H INLET	849.19	845.15	4.04	FP, W/ R-3067-7004, (2)
S-5	240'EW'+34.35	LT-27.02	H INLET	848.84	845.59	3.25	W/ R-3067-7004
S-6	239'EW'+73.66	LT-33.79	H INLET	848.95	845.88	3.07	W/ R-3067-7004
S-7	239'EW'+13.65	RT-17.62	H INLET	850.19	845.80	4.39	FP, W/ R-3067-7004, (2)
S-8	239'EW'+13.64	RT-10.97	H INLET	849.74	845.90	3.84	FP, W/ R-3067-7004, (2)
S-9	241'EW'+85.00	RT-21.71	H INLET	849.65	844.95	4.70	W/ R-3067-7004, (2)
S-10	241'EW'+49.71	LT-32.63	H INLET	849.18	845.34	3.84	W/ R-3067-7004

## STORM SEWER STRUCTURE REMOVALS

STRUC. REM. NO.	STRUC. ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
R-1	IN 5247-106	240'EW'+61.98	RT-68.49	INLET	(3)
R-2	IN 5247-108	240'EW'+35.55	RT-16.97	INLET	
R-3	IN 5247-110	240'EW'+34.36	LT-22.03	INLET	(3)
R-4	IN 5247-111	240'EW'+00.83	LT-28.30	INLET	(3)
R-5	IN 5247-103	239'EW'+13.74	RT-15.48	INLET	
R-6	IN 5247-126	242'EW'+16.44	LT-27.59	INLET	(3)

## CONCRETE COLLARS

STRUC. NO.	STATION	LOCATION (OFFSET)	E.I.	NOTES
CC-1	240'EW'+61.96	RT-67.49	844.75	
CC-2	240'EW'+34.34	LT-21.03	844.54	
CC-3	11'L'+55.00	LT-4.50	841.62	PAID UNDER BID ITEM #90034

## SANITARY SEWER STRUCTURE ADJUSTS

STRUC. ID NO.	STATION	LOCATION (OFFSET)	TYPE	EX. TOP OF CASTING	NEW TOP OF CASTING	NOTES
5247-052	241'EW'+19.09	RT-35.25	4' SAS	849.15	849.24	
5247-051	241'EW'+08.39	RT-63.90	4' SAS	848.87	849.07	

## SPECIFIC NOTES

- (1) P-1 CONNECTION TO EXISTING 10'X5' BOX
- (2) ALL MEDIAN INLET LOCATIONS PER S.D.D. 5.7.28
- (3) SALVAGE CASTING FOR REUSE

## STORM SEWER PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	EX. 10'X5' BX	S-1	44	841.52	841.52	0.00%	54"	RCP	(1)
P-2	S-1	EX. 54" STM	103	841.52	841.62	0.10%	54"	RCP	
P-3	CC-1	S-2	6	844.75	844.87	2.00%	12"	RCP	
P-4	S-2	IN 5247-107	66	844.87	845.06	0.29%	12"	RCP	
P-5	S-3	S-4	9	844.92	845.15	2.56%	18"	RCP	
P-6	CC-2	S-5	6	844.54	845.59	17.50%	12"	RCP	
P-7	S-5	S-6	61	845.59	845.88	0.48%	12"	RCP	
P-8	S-7	S-8	7	845.80	845.90	1.43%	12"	RCP	
P-9	IN 5247-120	S-9	13	844.85	844.95	0.77%	12"	RCP	
P-10	IN 5247-125	S-10	11	845.27	845.34	0.64%	12"	RCP	

## STORM SEWER PIPE REMOVAL

PIPE REM. NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	PIPE SIZE	NOTES
RP-1	EX. 10'X5' BX	S-1	30	N	30"	
RP-2	IN 5247-106	IN 5247-107	66	Y	12"	
RP-3	IN 5247-108	S-4	6	N	18"	
RP-4	IN 5247-110	IN 5247-111	36	Y	12"	
RP-5	IN 5247-125	IN 5247-126	69	Y	12"	
RP-6	IN 5247-127	P-2	18	Y	29"X45"	PLUG PIPE
RP-7	S-7	S-8	7	N	12"	

## STORM SEWER STRUCTURE ADJUSTS

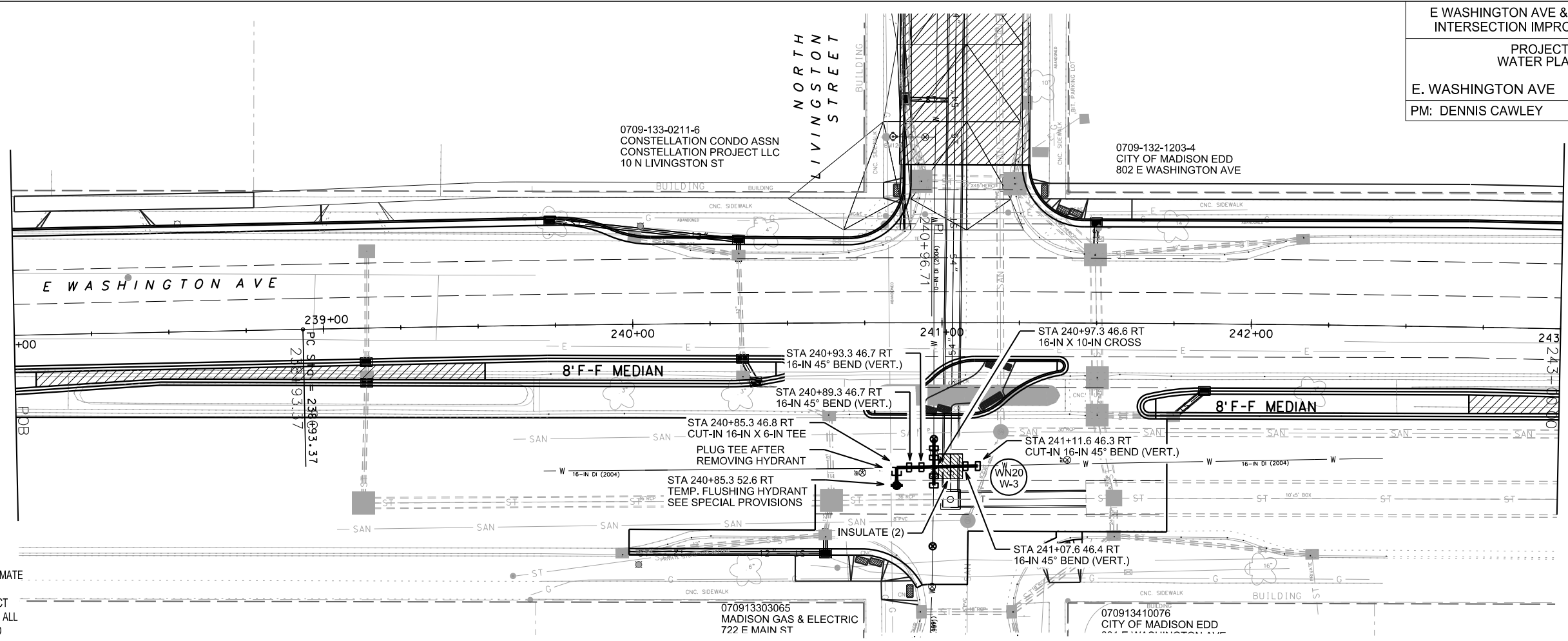
STRUC. ADJ. NO.	STRUC. ID NO.	STATION	LOCATION (OFFSET)	TYPE	EX. TOP OF CASTING	NEW TOP OF CASTING	NOTES
ADJ-1	AS 5247-105	240'EW'+64.05	RT-57.36	6X6 SAS	849.16	849.15	
ADJ-2	AS 5247-112	241'EW'+55.90	RT-56.55	SAS	848.87	848.87	
ADJ-3	AS 5247-104	239'EW'+13.64	LT-25.00	SAS	849.03	848.99	

## STORM SEWER STRUCTURE RECONSTRUCTIONS

STRUC. ADJ. NO.	STRUC. ID NO.	STATION	LOCATION (OFFSET)	TYPE	EX. TOP OF CASTING	NEW TOP OF CASTING	NOTES
SR-1	IN 5247-123	241'EW'+50.00	RT-29.50	6X6	849.39	849.15	W/ R-1550-0054
SR-2	IN 5247-124	241'EW'+50.00	RT-17.50	6X6	849.65	849.21	W/ R-1550-0054
SR-3	IN 5247-125	241'EW'+50.00	LT-22.00	6X6	849.40	849.04	W/ R-1550-0054
SR-4	IN 5247-127	241'EW'+23.50	LT-45.00	6X6	848.71	848.50	W/ R-1550-0054

## STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT ERIC DUNDEE OF CITY ENGINEERING AT (608) 266-4913 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

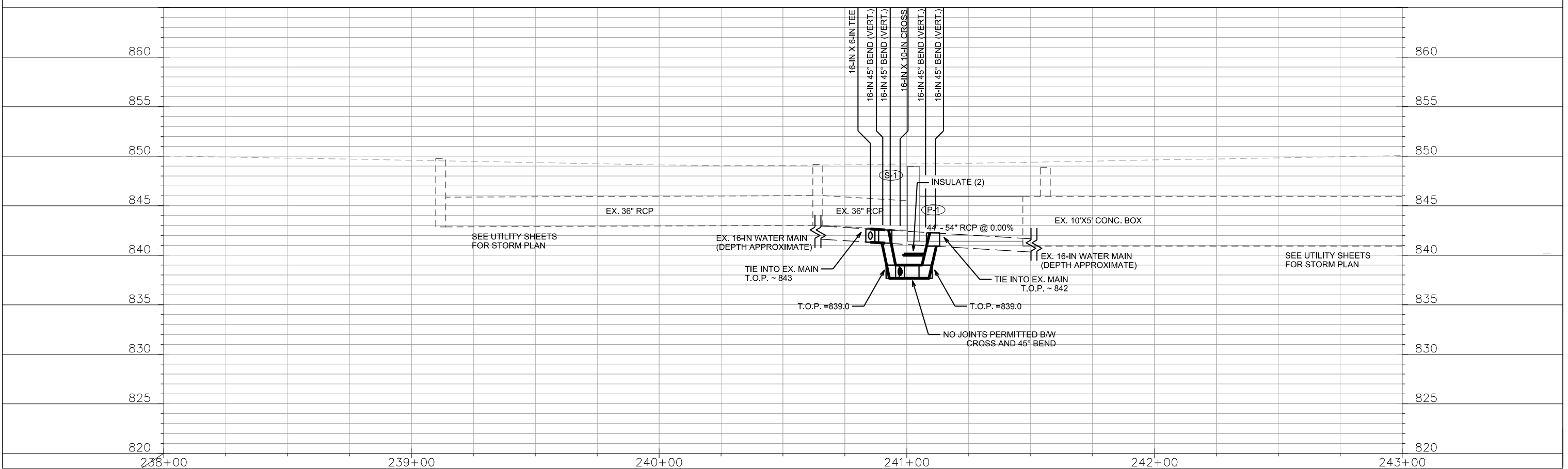


DISCLAIMER NOTE:  
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE  
TOLL FREE  
811 OR 1-800-242-8511  
FAX-A-LOCATE 1-800-338-3860  
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974)  
REQUIRES MIN. OF 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE.

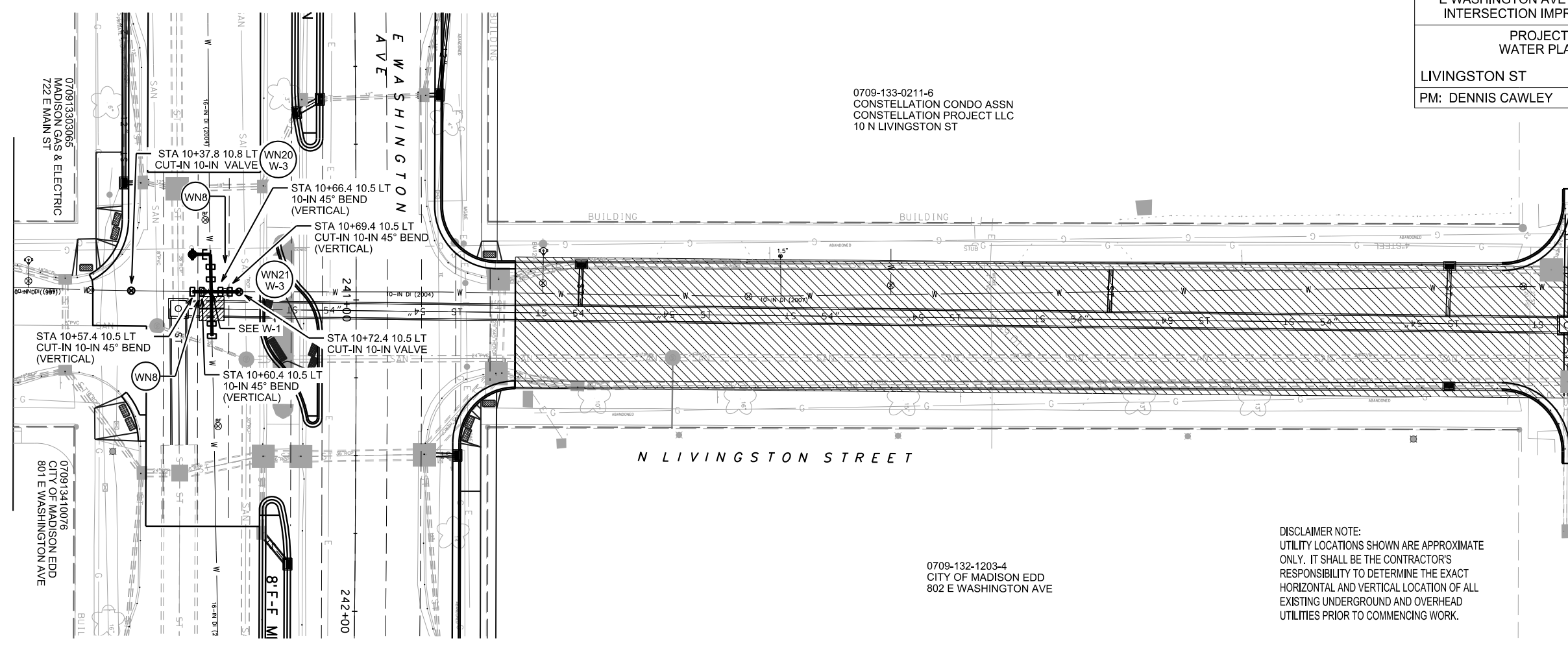


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

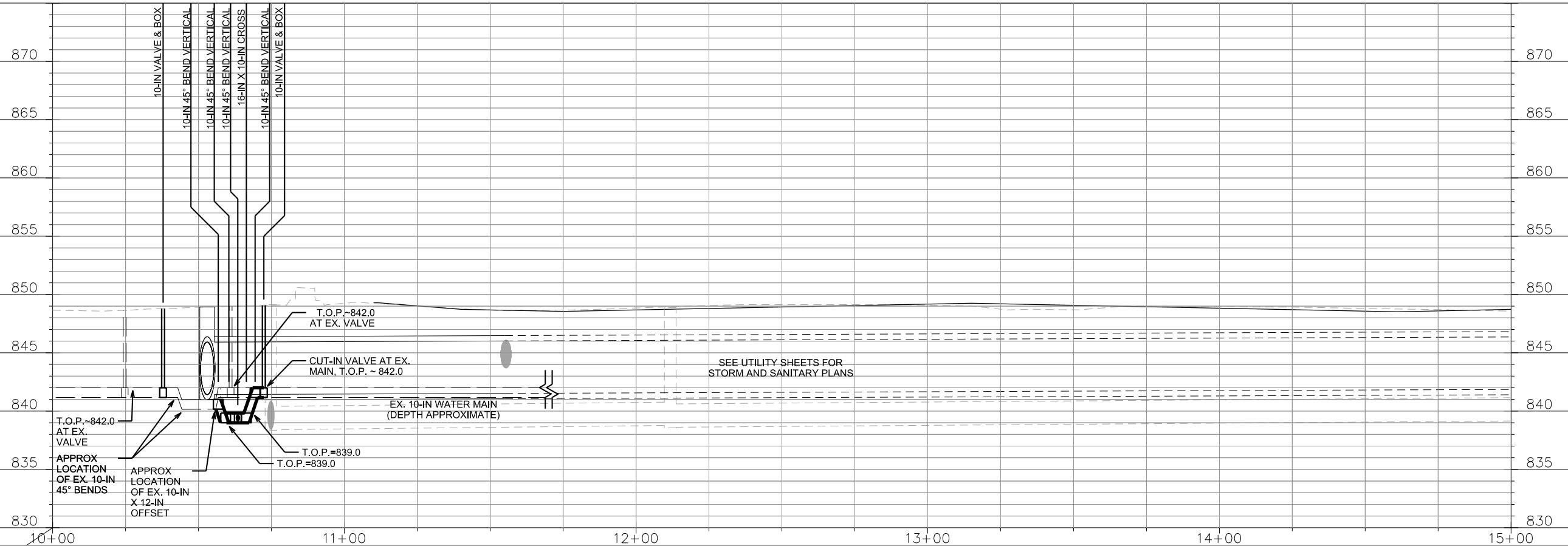
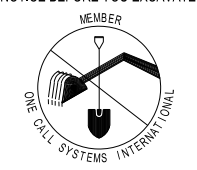
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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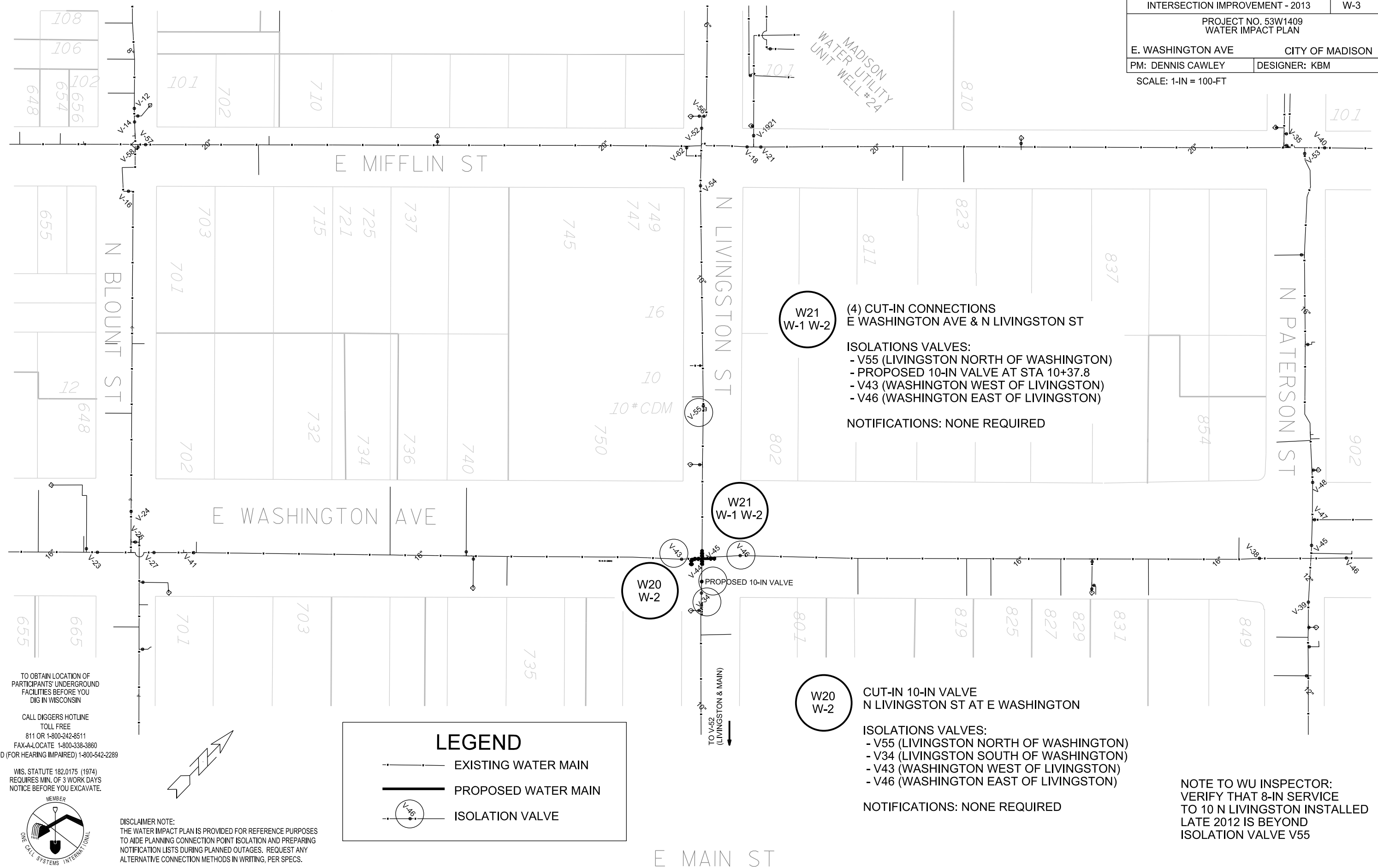


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



W21  
W-1 W-2

(4) CUT-IN CONNECTIONS  
E WASHINGTON AVE & N LIVINGSTON ST

ISOLATIONS VALVES:  
- V55 (LIVINGSTON NORTH OF WASHINGTON)  
- PROPOSED 10-IN VALVE AT STA 10+37.8  
- V43 (WASHINGTON WEST OF LIVINGSTON)  
- V46 (WASHINGTON EAST OF LIVINGSTON)

NOTIFICATIONS: NONE REQUIRED

W21  
W-1 W-2

W20  
W-2

CUT-IN 10-IN VALVE  
N LIVINGSTON ST AT E WASHINGTON

ISOLATIONS VALVES:  
- V55 (LIVINGSTON NORTH OF WASHINGTON)  
- V34 (LIVINGSTON SOUTH OF WASHINGTON)  
- V43 (WASHINGTON WEST OF LIVINGSTON)  
- V46 (WASHINGTON EAST OF LIVINGSTON)

NOTIFICATIONS: NONE REQUIRED

NOTE TO WU INSPECTOR:  
VERIFY THAT 8-IN SERVICE  
TO 10 N LIVINGSTON INSTALLED  
LATE 2012 IS BEYOND  
ISOLATION VALVE V55

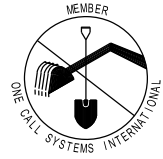
**LEGEND**

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- ISOLATION VALVE

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE TOLL FREE  
811 OR 1-800-242-8511  
FAX-A-LOCATE 1-800-338-3860  
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974)  
REQUIRES MIN. OF 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE.



DISCLAIMER NOTE:  
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES  
TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING  
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY  
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**CONSTRUCTION NOTES:**

1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISTRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND ACCEPTED BY MADISON WATER UTILITY AND ALL SERVICES ARE RECONNECTED.
5. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
- WN4 DISCONNECT FROM THE OLD WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEW WATER MAIN.
- WN5 RELOCATE THE EXISTING FIRE HYDRANT.
- WN6 ABANDON WATER VALVE ACCESS STRUCTURE.
- WN7 FURNISH AND INSTALL THE NEW TOP SECTION FOR THE WATER ACCESS STRUCTURE.
- WN8 ABANDON THE VALVE BOX.
- WN9 FURNISH THE DITCH, COMPACTION, AND ALL MATERIALS AND LABOR FOR THE INSTALLATION OF NEW SERVICE LATERAL.
- WN10 REMOVE AND SALVAGE EXISTING HYDRANT
- WN11 REPLACE THE EXISTING COPPER SERVICE WITH A COPPER SERVICE
- WN20+ SEE WATER IMPACT PLAN FOR CONNECTION POINT ISOLATION AND WATER SHUT-OFF NOTIFICATION INFORMATION.

**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

- |                        |                               |
|------------------------|-------------------------------|
| 10' - 6" PIPE          | 1 - 16"X10" CROSS             |
| 20' - 10" PIPE         | 4 - 10" - 45° BEND            |
| 30' - 16" PIPE         | 4 - 16" - 45° BEND            |
| 90' - POLYWRAP         | 1 - 6" MJ PLUG                |
| 1 - 5" HYDRANT (TEMP.) | 16' - 2" STYROFOAM INSULATION |
| 2 - 10" VALVE AND BOX  |                               |
| 1 - 16"X6" TEE         |                               |

**MATERIALS SUPPLIED BY CITY:**

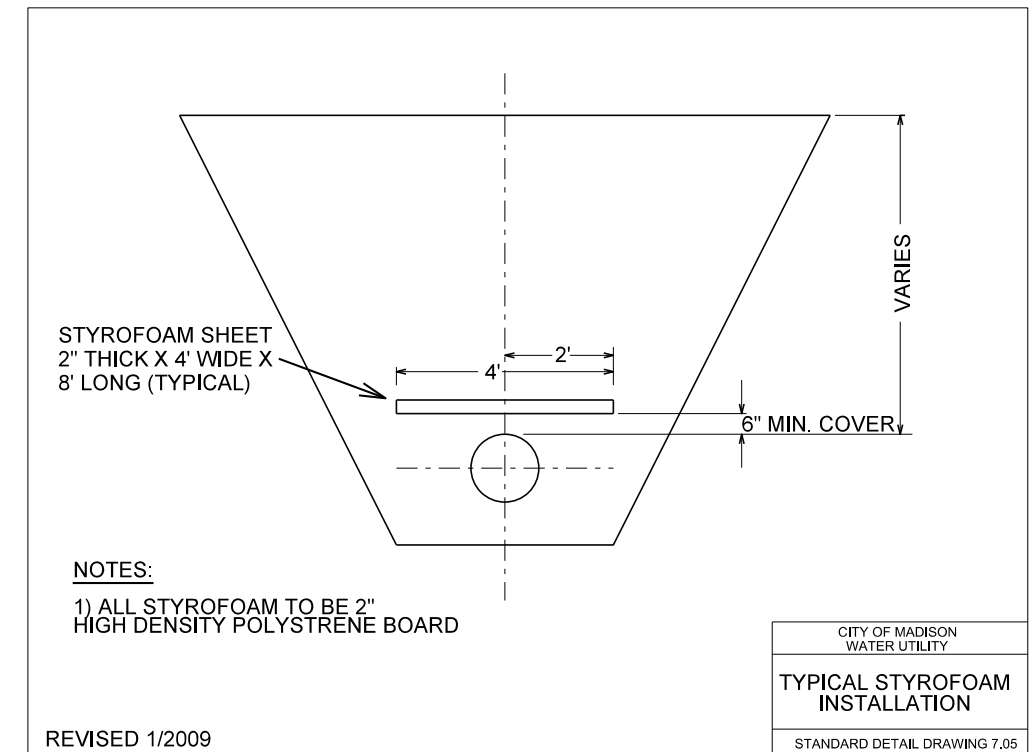
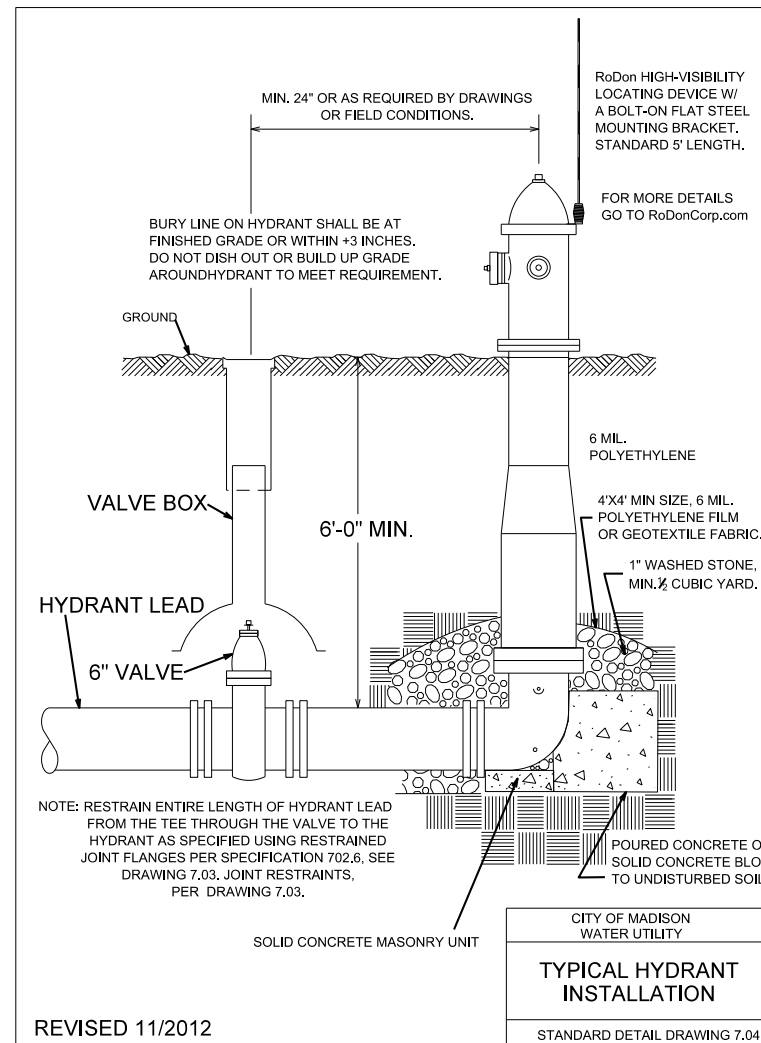
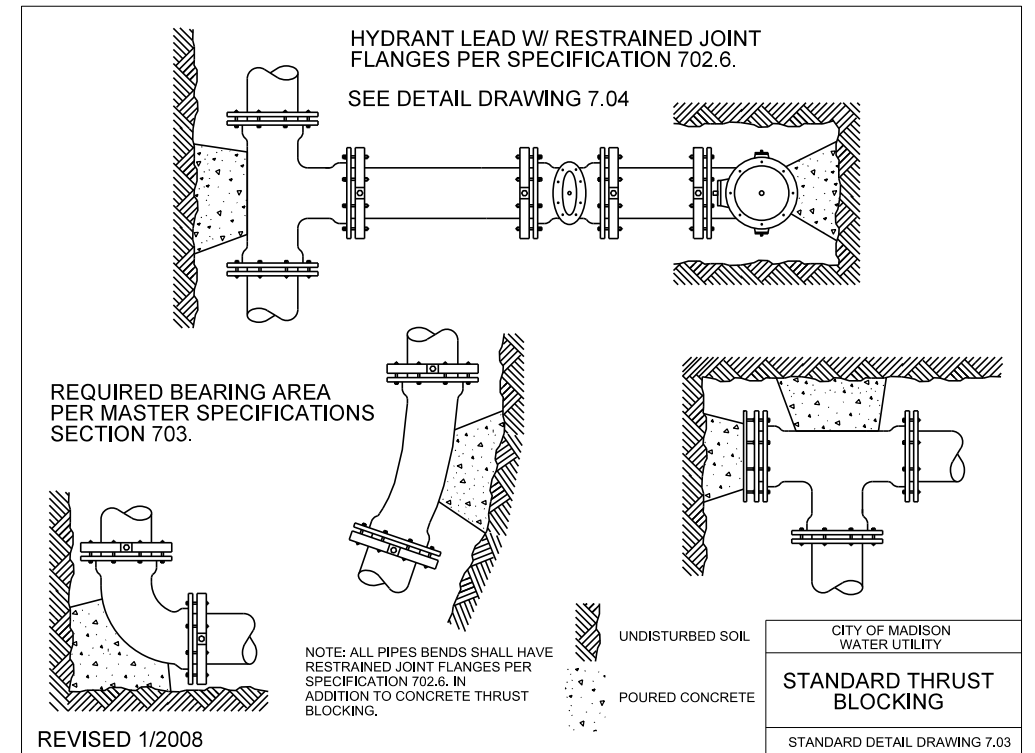
NONE

**REMOVED/SALVAGED MATERIALS:**

NONE

**REUSED MATERIALS:**

NONE



PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

GENERAL ELECTRIC NOTES:

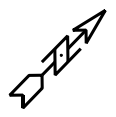
1. ALL LOCATIONS ARE APPROXIMATE. THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS. INCLUDING SETBACK IN THE FIELD. AFTER CONTRACTOR SURVEYS STAKING, THE CONTRACTOR SHALL NOTIFY BRIAN SMITH (261-9625) CITY TRAFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING BASE LOCATIONS MARKED.
2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2012 EDITION AND ALL ADDENDUMS THERETO. ALL CONDUIT SHALL BE PVC, SCHEDULE 80 UNDER PAVEMENT OR SCHEDULE 40 OTHERWISE. PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL CALL MIKE CHISTOPH (266-4767) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF POURING BASES OR BURYING CONDUIT TO ARRANGE FOR INSPECTION. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
4. THE CONTACTOR SHALL ENSURE AREA STREET LIGHTS REMAIN OPERATIONAL. PER THE CONTRACT SPECICAL PROVISIONS.

SYMBOL LIST:

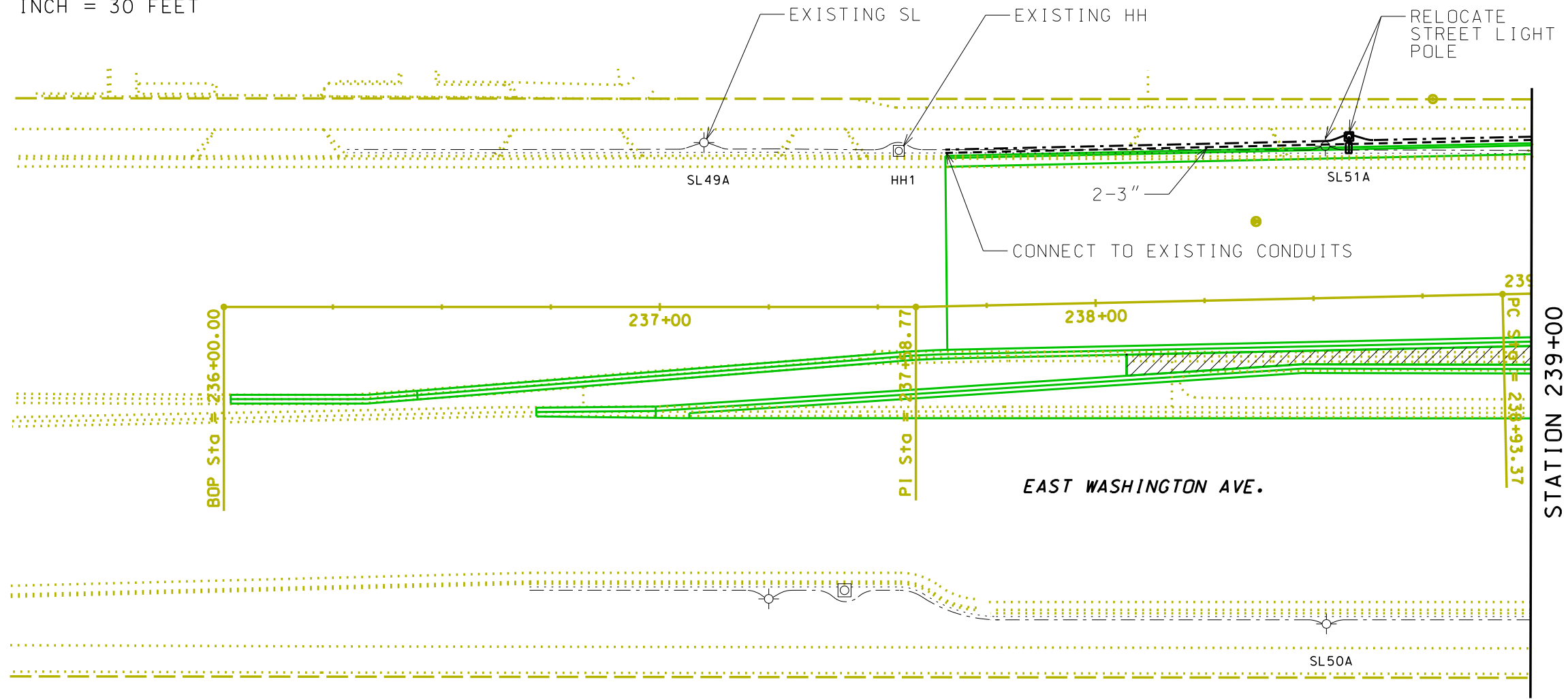
- ⊙ CONSTRUCT TYPE-10 BASE
- ◐ CONSTRUCT TYPE "G" BASE
- ☐ CONSTRUCT STREET LIGHT BASE SPECIAL (LB-SP) AND, INSTALL CITY FURNISHED STREET LIGHT UNIT (A=ALL NIGHT, M=MIDNIGHT). TYPE-A LIGHT UNIT UNLESS NOTED AS OTHER
- ⊕ EXISTING AREA STREET LIGHT POLE
- ◻ EXISTING ELECTRICAL HANDHOLE
- ◻ CONSTRUCT ELECTRICAL HANDHOLE TYPE-1
- ◻ CONSTRUCT ELECTRICAL HANDHOLE TYPE-3
- ◻ CONSTRUCT ELECTRICAL HANDHOLE TYPE-5
- ◻ CONSTRUCT ELECTRICAL HANDHOLE TYPE-7
- UNDERGROUND PVC TO INSTALLED FOR STREET LIGHTING, 2 INCH UNLESS NOTED AS OTHER
- UNDERGROUND PVC TO INSTALL FOR SIGNALS, 3 INCH UNLESS NOTED AS OTHER.
- ..... EXISTING SIGNAL/INTERCONNECT CONDUITS
- EXISTING STREET LIGHTING CONDUITS
- ◻ EXISTING CONTROL CABINET BASE
- ◻ INSTALL TYPE-M OR TYPE-P CONTROL CABINET BASE

PLOT SCALE: -----  
 PLOT NAME: -----  
 REV. DATE: -----  
 ORIGINATOR: CITY OF MADISON - STREETS DIVISION



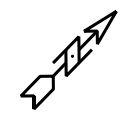


SCALE: 1 INCH = 30 FEET

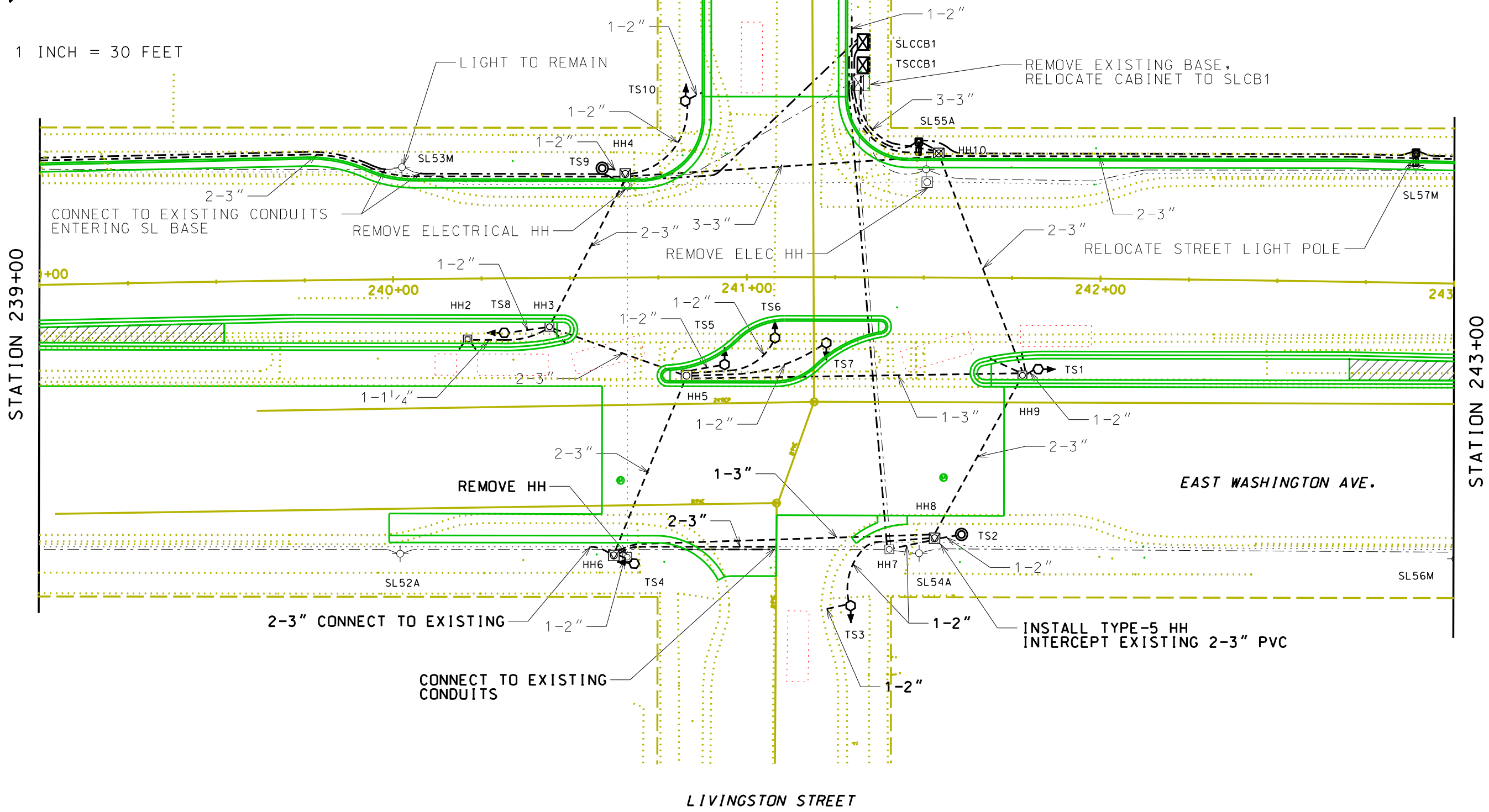


REV. DATE: \_\_\_\_\_ PLOT NAME: \_\_\_\_\_ PLOT SCALE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

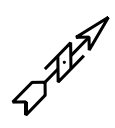
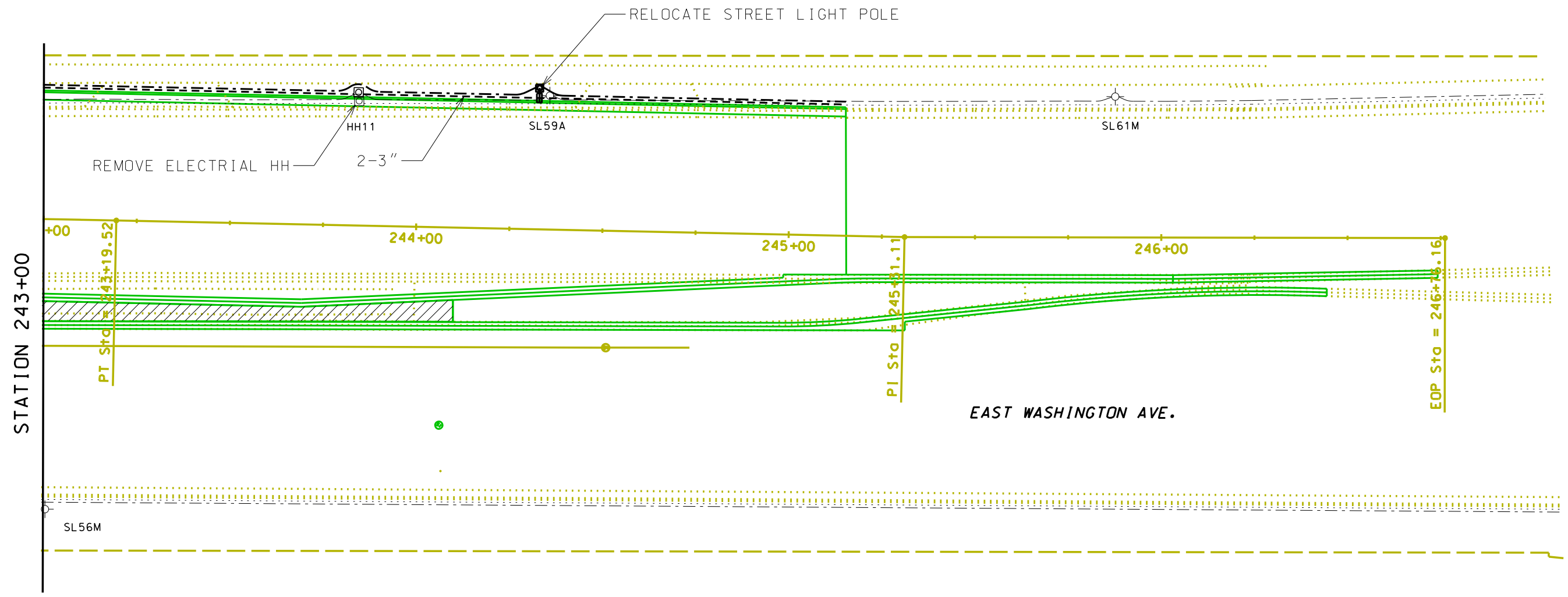


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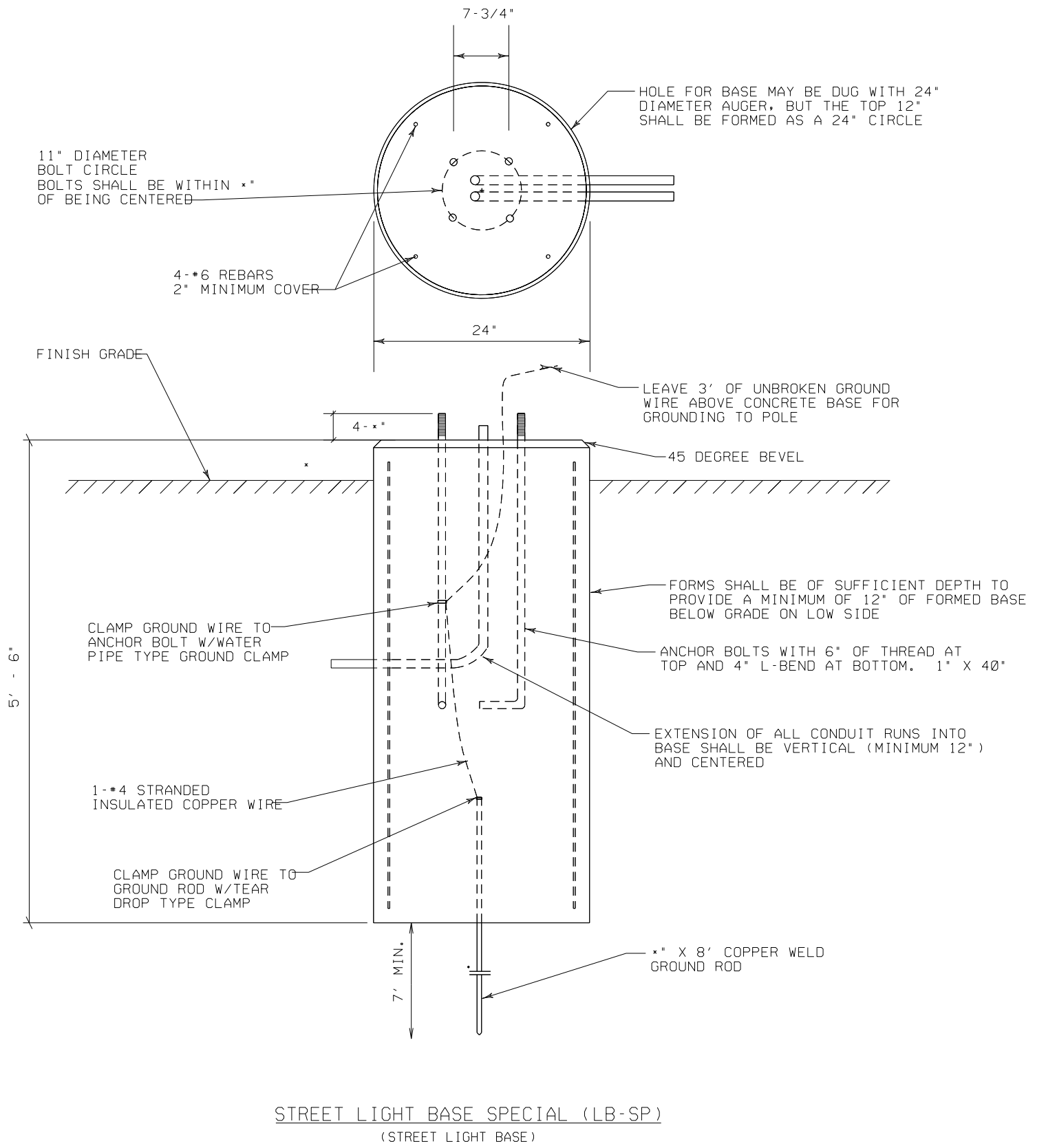
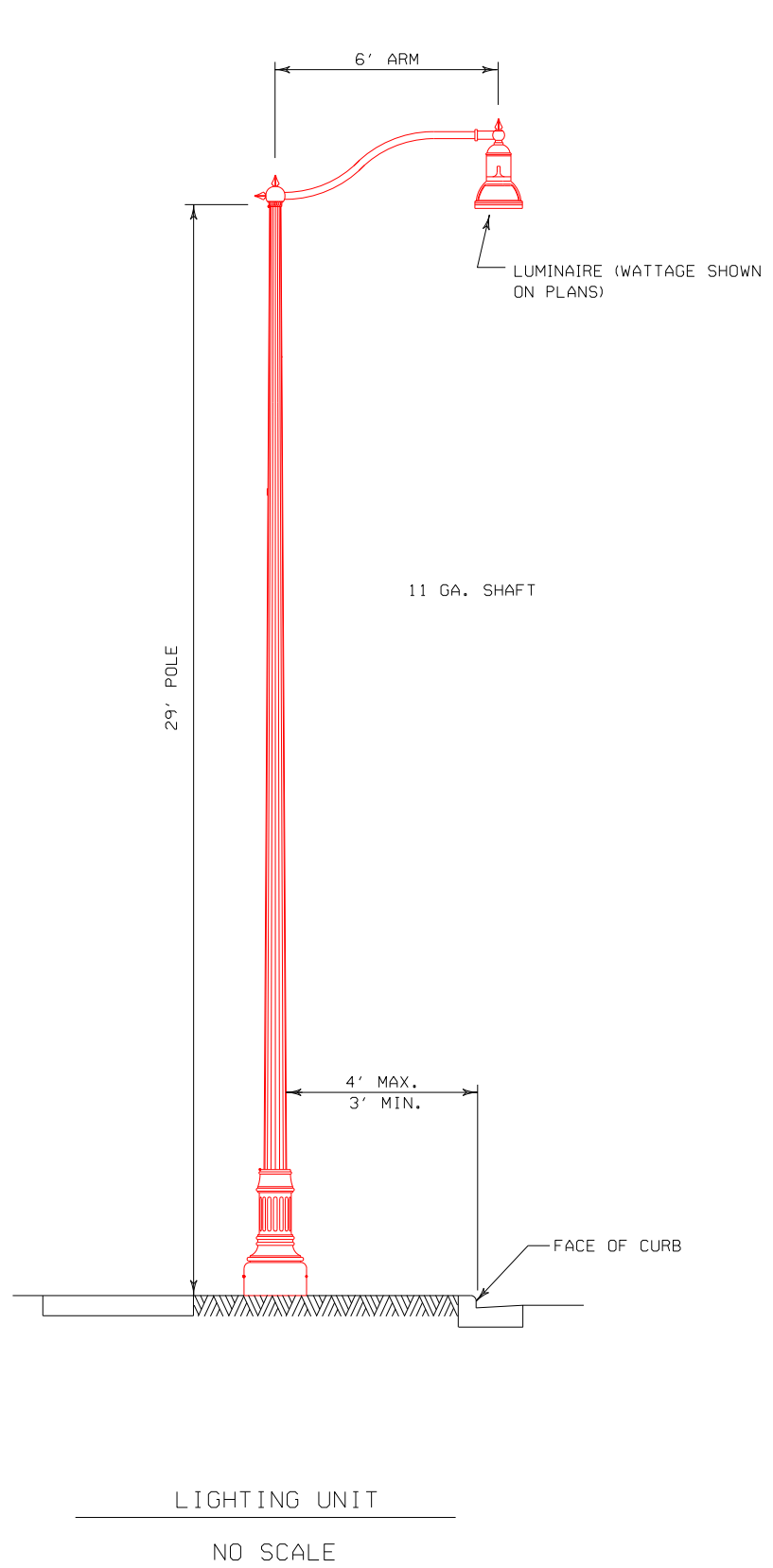
PLOT SCALE: -----  
PLOT NAME: -----  
REV. DATE: -----

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



SCALE: 1 INCH = 30 FEET

REV. DATE: \_\_\_\_\_  
PLOT NAME: \_\_\_\_\_  
PLOT SCALE: \_\_\_\_\_



PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL CONDUIT SHALL BE PVC, SCHEDULE 40

INSTALL TWO ADDITIONAL CONDUIT ENTRANCES OVER WHAT IS SHOWN ON THE PLAN SHEETS. INSTALL 2' CONDUITS FOR TYPE M BASES; 3' FOR TYPE P BASES.

DEPTH OF CONDUIT EXITING THE BASE SHALL MATCH THE DEPTH SPECIFIED FOR CONDUIT INSTALLATION.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

MAINTENANCE PLATFORM SHALL NOT BE INSTALLED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

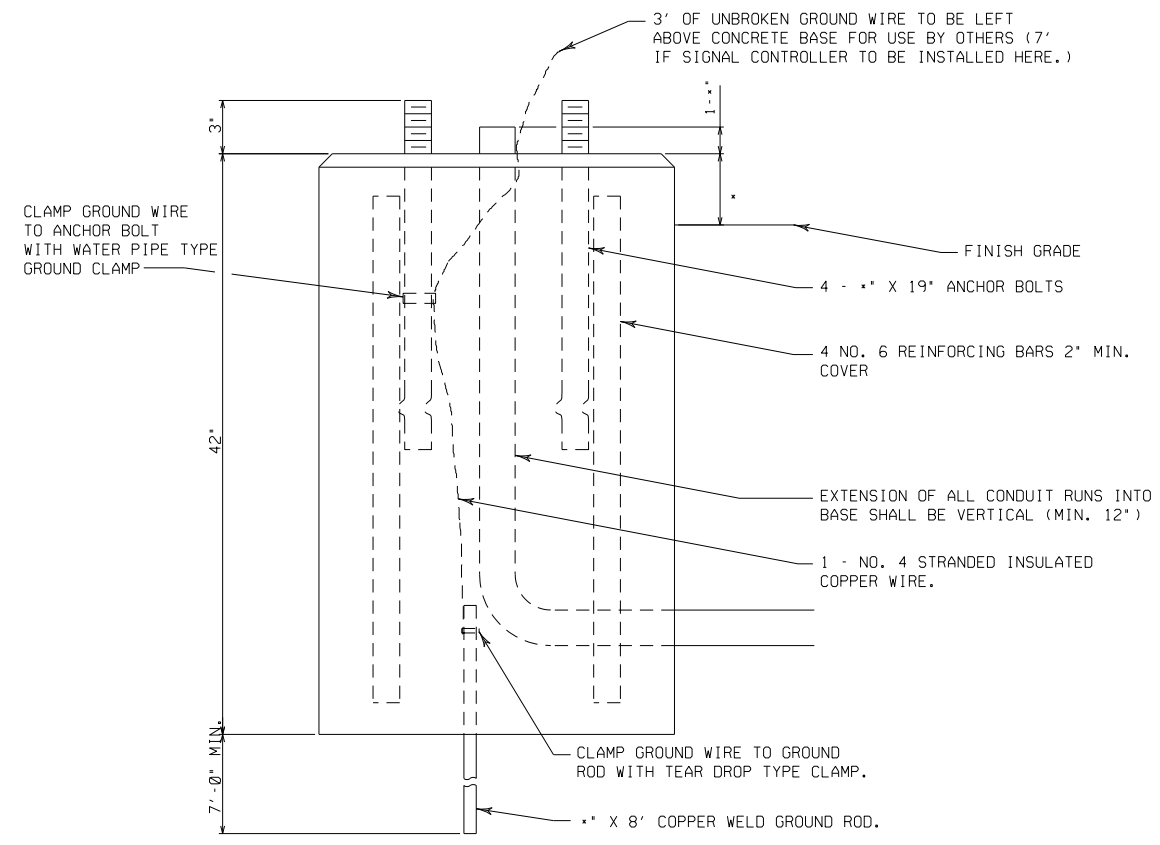
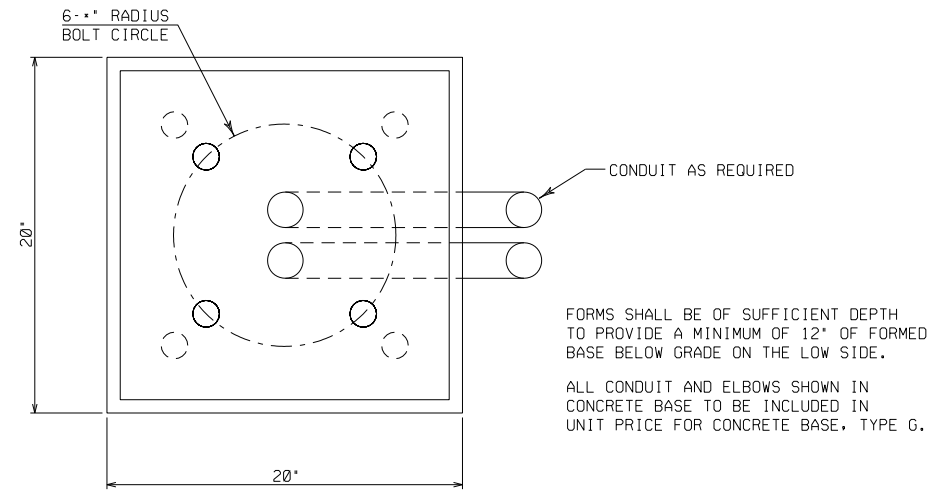
CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MINIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUITS SHALL EXIT THE BASE IN THE DIRECTION OF THE STRUCTURE IT IS TERMINATING INTO.

MAINTENANCE PLATFORM SIZE MAY VARY ON ACCOUNT OF CONDITIONS. VERIFY THE MAINTENANCE PLATFORM SIZE WITH ENGINEER PRIOR TO POURING BASE.

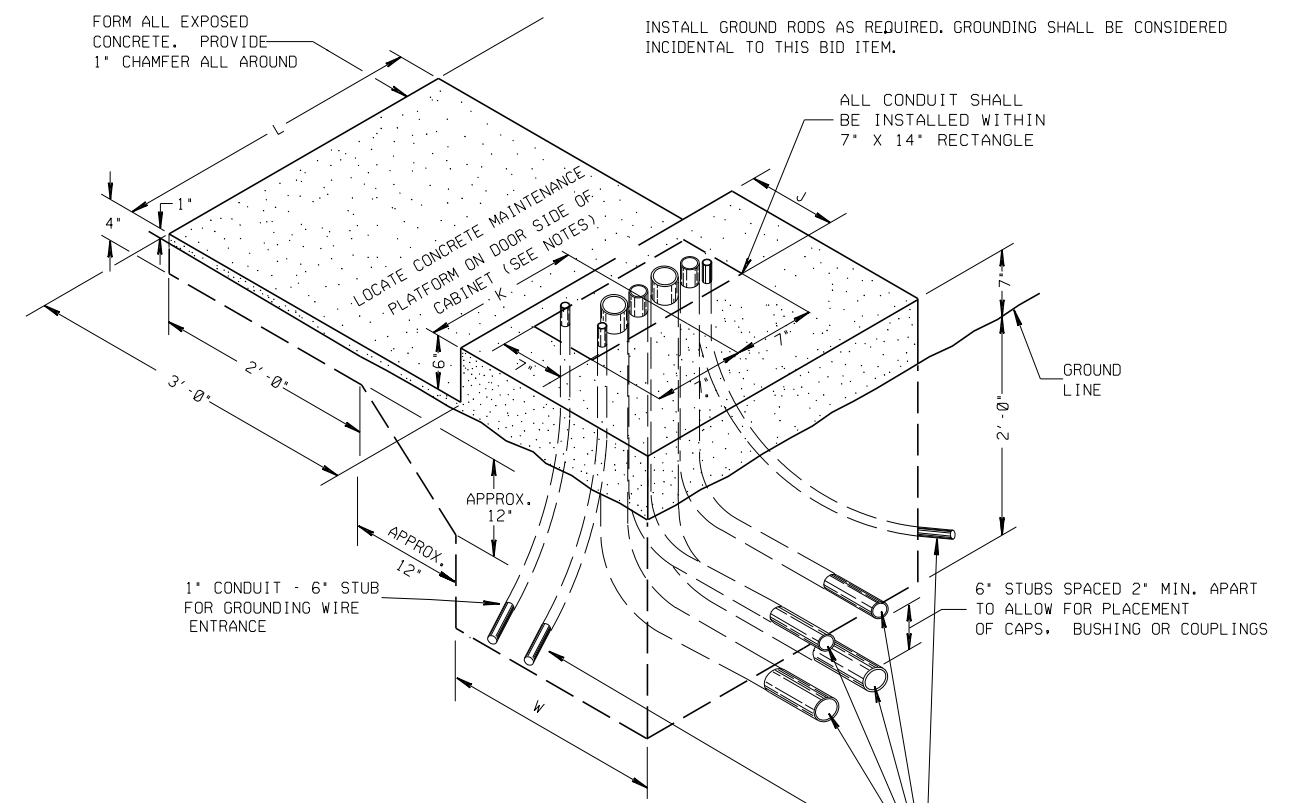
INSTALL GROUND RODS AS REQUIRED. GROUNDING SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	L	W	J	K	
TYPE M	40"	30"	12"	20"	.823
TYPE P	48"	30"	16"	24"	1.179
TYPE M MODIFIED	-	-	-	-	-
TYPE P MODIFIED	-	-	-	-	-
TYPE OTHER	-	-	-	-	-



CONCRETE BASE TYPE G

\* = 4" x 4" FOR GRASS TERRACE  
 \* = 2" x 2" FOR CONCRETE TERRACE



CONCRETE BASE TYPE M & TYPE P (CONTROL CABINET BASE)

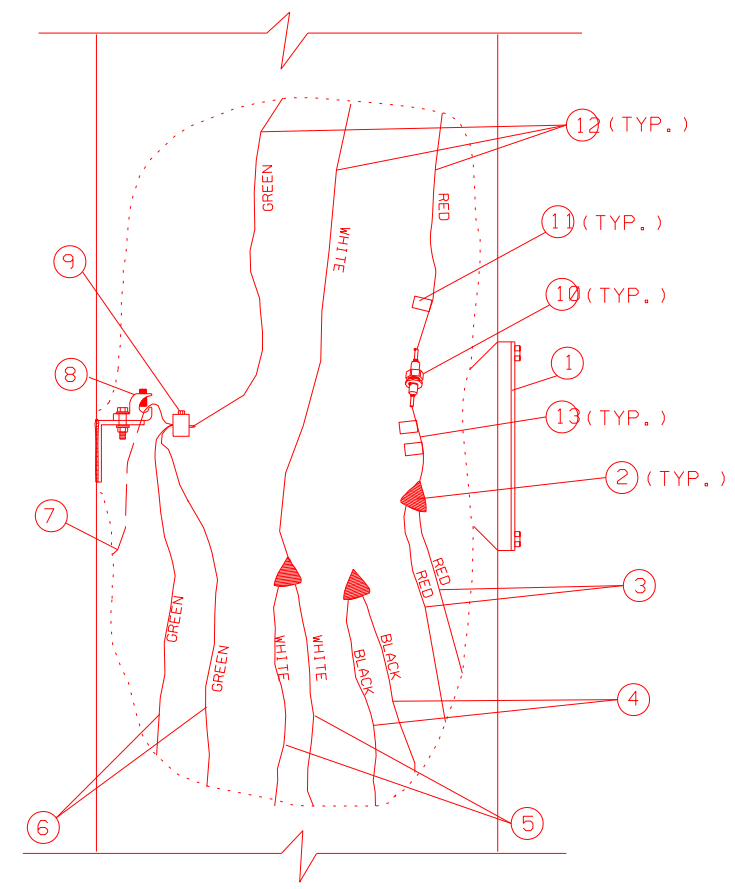
PLOT SCALE  
 PLOT NAME  
 REV. DATE

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STREET LIGHTING GENERAL NOTES:

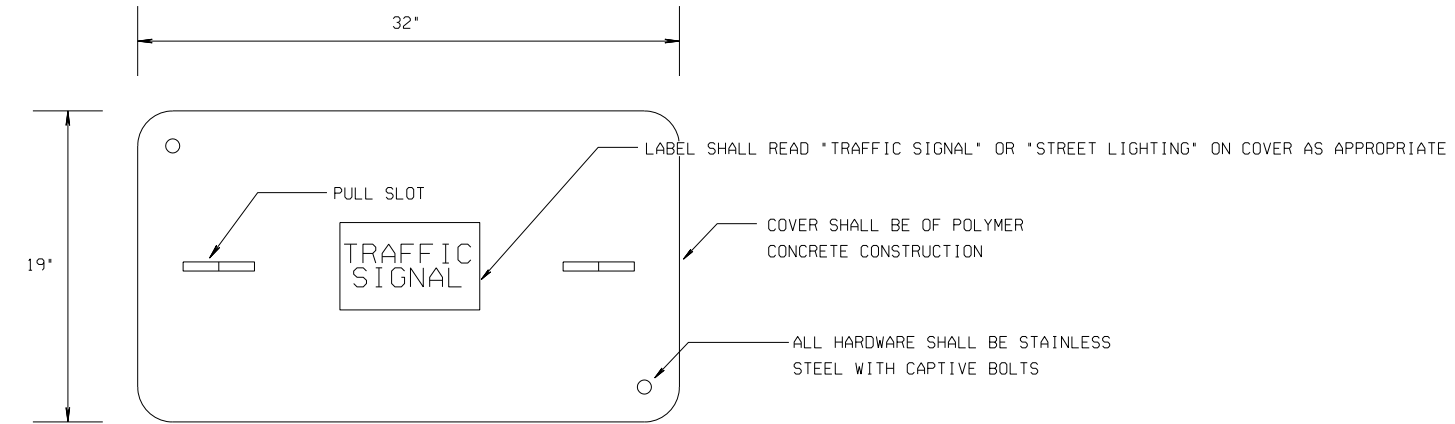
1. ALL PROPOSED LUMINAIRES SHALL BE 150 WATT HPS, EXCEPT AS NOTED.
2. EXISTING CIRCUIT 254 IS 240/480V ON EAST WASHINGTON AVENUE; EXISTING CIRCUITS EW5/4 & EW3/3 ARE 120/240V ON EAST WASHINGTON AVENUE; EXISTING CIRCUITS 3014 & 3115 ARE 115/230V WIRED CROSS-LINE ON ABERG AVENUE, STH 30 AND RAMPS.
3. COORDINATE ALL MODIFICATIONS OF EXISTING LIGHTING CIRCUITS WITH THE CITY OF MADISON.
4. NO CIRCUIT CONDUCTOR SPLICES WILL BE ALLOWED IN PULL BOXES.
5. REMOVAL OF ALL AERIAL CABLE AND ABANDONMENT OF BELOW GRADE WIRING SHALL BE INCIDENTAL TO THE REMOVING LIGHTING UNITS & REMOVING CONCRETE BASES BID ITEMS.
6. CONTACT CITY FORESTRY 48-HOURS PRIOR TO INSTALLING STREET LIGHTS IF TREE TRIMMING IS NEEDED. NEW TREES SHALL HAVE A MINIMUM OFFSET OF 30' FROM ANY STREET LIGHT.
7. THE MINIMUM OFFSET FOR STREET LIGHT BASES FROM THE EDGE OF DRIVEWAYS SHALL BE:  
RESIDENTIAL - 5'  
COMMERCIAL - 10'
8. CHECK FOR OVERHEAD UTILITY CONFLICTS PRIOR TO CONSTRUCTING CONCRETE BASES.
9. INSTALLING WOOD POLES, RELOCATING LIGHTING CONTROL CABINETS, INSTALLING GUY WIRES, AERIAL CABLE, CONDUIT RISERS, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE TEMPORARY LIGHTING BID ITEM.
10. INSTALL CONDUIT AT A DEPTH OF 12-INCHES BELOW SUBGRADE WHEN CROSSING ROADWAYS.
11. REMOVE AND STORE LIGHT 3185M (ABERG AVE.) FOR REINSTALLATION ON A NEW CONCRETE BASE.
12. INSTALL CONDUIT BY BORING WHEN CROSSING ROADWAYS. CONDUITS CROSSING ROADWAYS MAY BE INSTALLED BY TRENCHING IF THE ENGINEER DETERMINES BORING TO BE UNNECESSARY.
13. PLACE LIGHTING CONDUITS IN THE SAME TRENCH AS THE TRAFFIC SIGNAL CONDUITS WHEN POSSIBLE.
14. THE EXACT LOCATION OF THE LIGHTING CONTROL CABINETS SHALL BE DETERMINED IN THE FIELD BY THE CITY OF MADISON AND THE ENGINEER.
15. REFER TO STRUCTURE PLANS FOR ADDITIONAL ELECTRICAL WORK REQUIRED. THE INSTALLATION OF THE TOWER LIGHT FIXTURE AND UNDERDECK LUMINAIRES WILL REQUIRE COORDINATION WITH THE STRUCTURE WORK.
16. CLEARLY LABEL UNUSED CONDUCTORS AS "SPARE" IN ALL CONDUIT RUNS CONTAINING UNUSED CONDUCTORS.

- ① HANDHOLE AND COVER
- ② INSULATED SPLICE
- ③ INSULATED LIGHTING CKT CONDUCTORS FROM SYSTEM RACEWAY
- ④ ALTERNATE INSULATED LIGHTING CKT CONDUCTORS FROM SYSTEM RACEWAY PASSING THROUGH THIS POLE
- ⑤ LIGHTING CKT GROUNDED CONDUCTORS FROM SYSTEM RACEWAY
- ⑥ LIGHTING SYSTEM GROUNDING CONDUCTORS
- ⑦ #4 BARE EQUIPMENT GROUNDING CONDUCTOR TO GROUND ROD
- ⑧ HANDHOLE GROUNDING LUG
- ⑨ REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
- ⑩ FUSE ASSEMBLY, AS REQUIRED
- ⑪ CIRCUIT TAG
- ⑫ #12 AWG CONDUCTORS TO LUMINAIRE
- ⑬ 12" PIGTAIL BETWEEN SPLICE AND FUSE ASSEMBLY

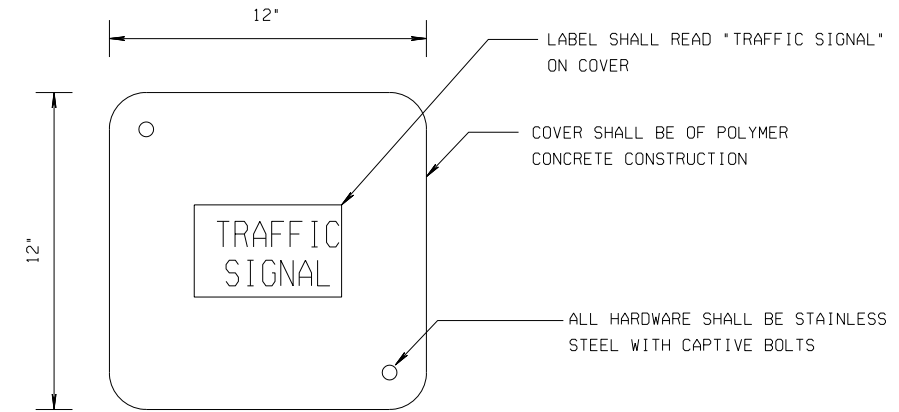


POLE WIRING DETAIL  
NO SCALE

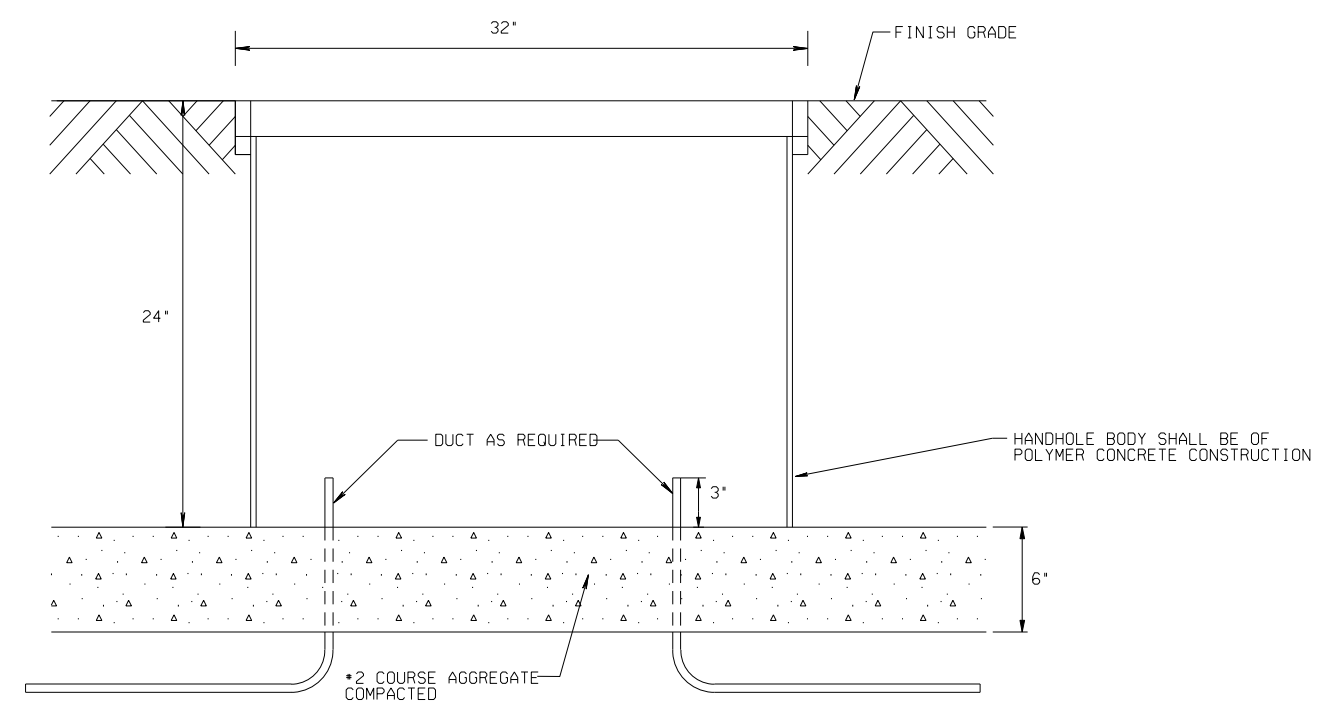
PLOT NAME: REV. DATE:



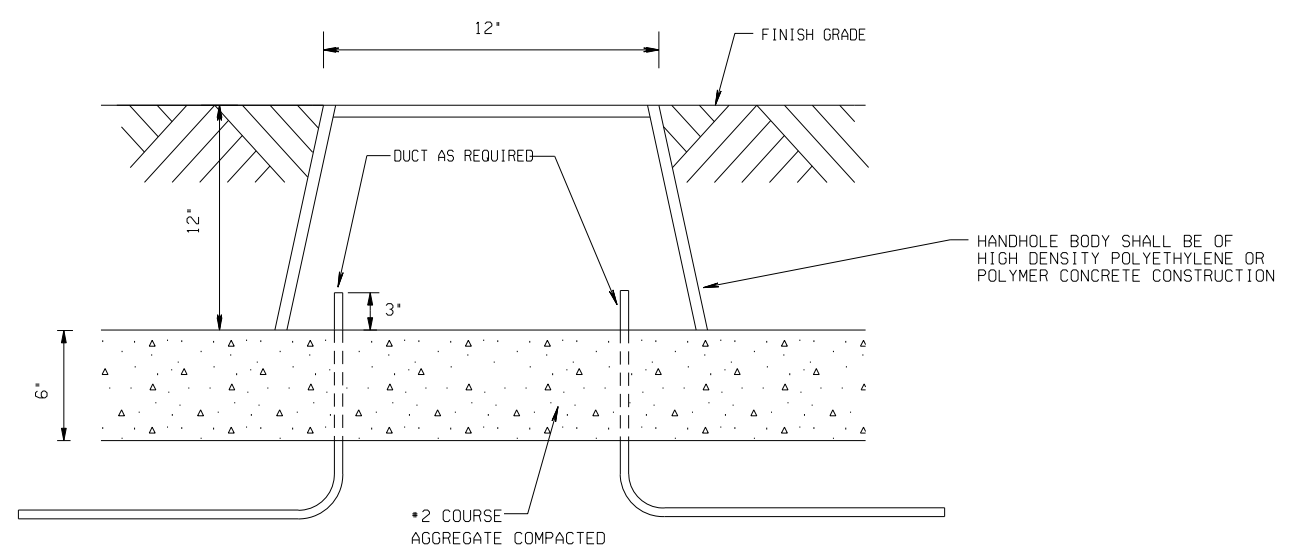
×15,000 LBS MAXIMUM LOAD OVER A 10" X 10" TEST AREA RATING FOR COVER AND BOX



×20,000 LBS LOAD RATING FOR COVER AND BOX

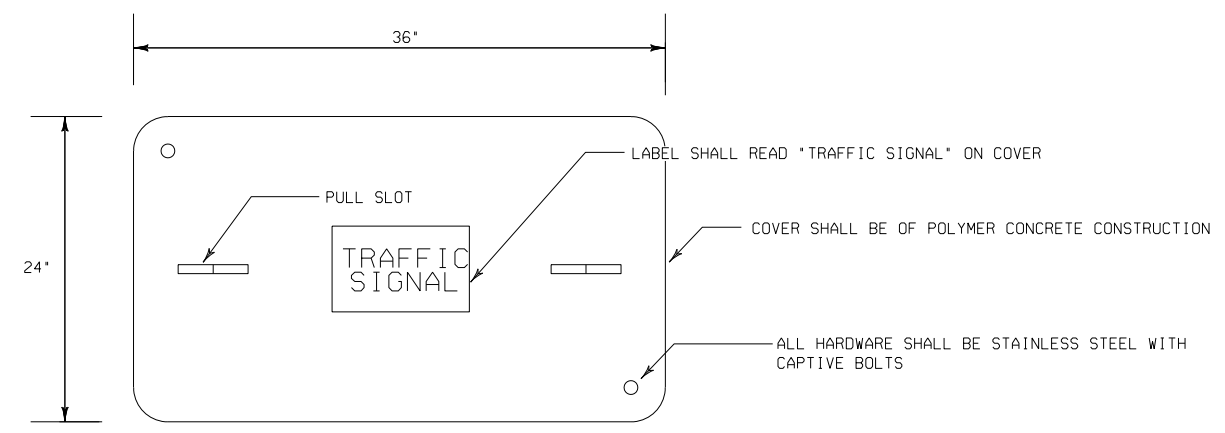


ELECTRICAL PULLBOX TYPE I

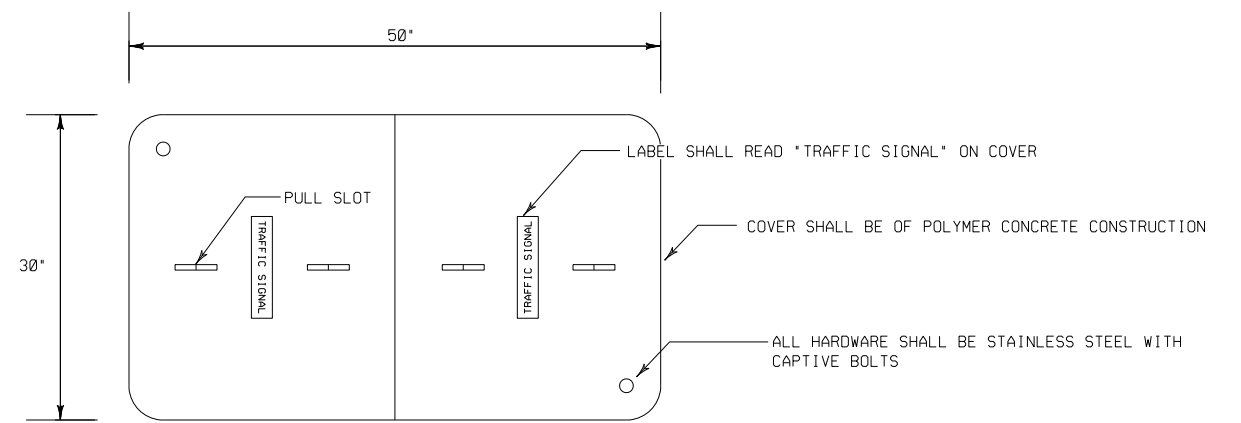


ELECTRICAL PULLBOX TYPE III

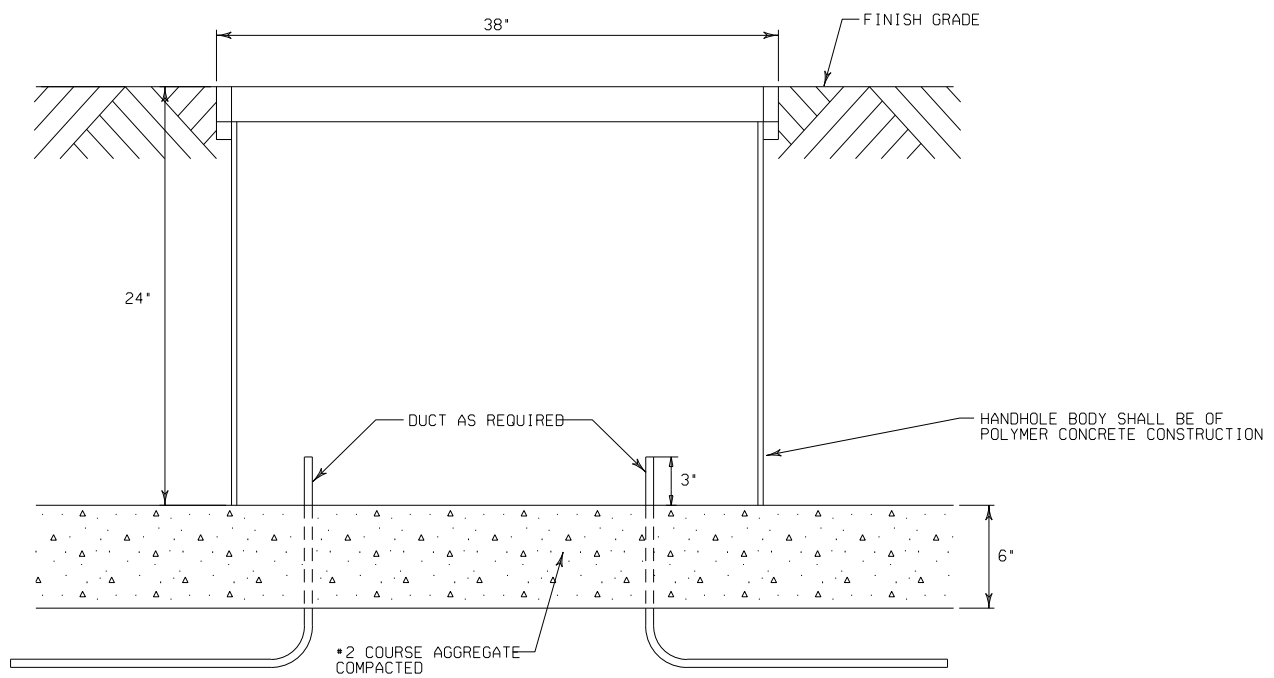
PLOT NAME  
REV. DATE



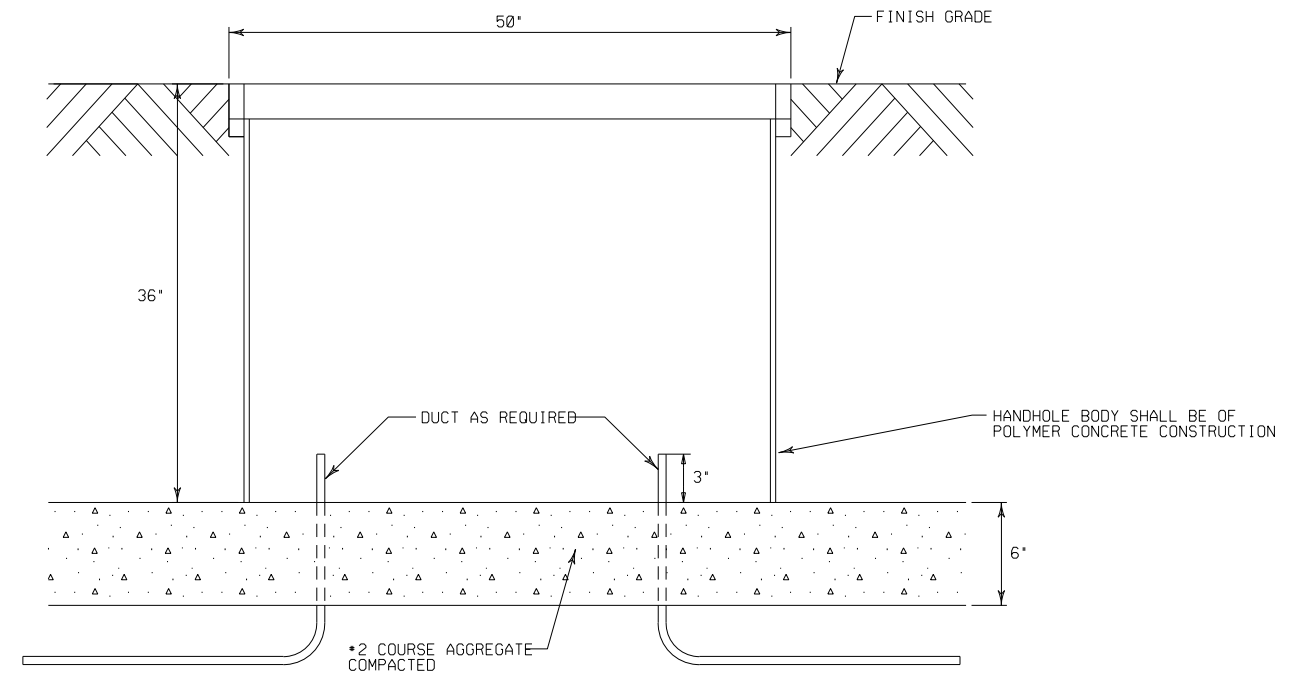
\*15,000 LBS MAXIMUM LOAD OVER A 10" X 10" TEST AREA RATING FOR COVER AND BOX



\*15,000 LBS MAXIMUM LOAD OVER A 10" X 10" TEST AREA RATING FOR COVER AND BOX



ELECTRICAL PULLBOX TYPE V



ELECTRICAL PULLBOX TYPE VII

REV. DATE



**GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

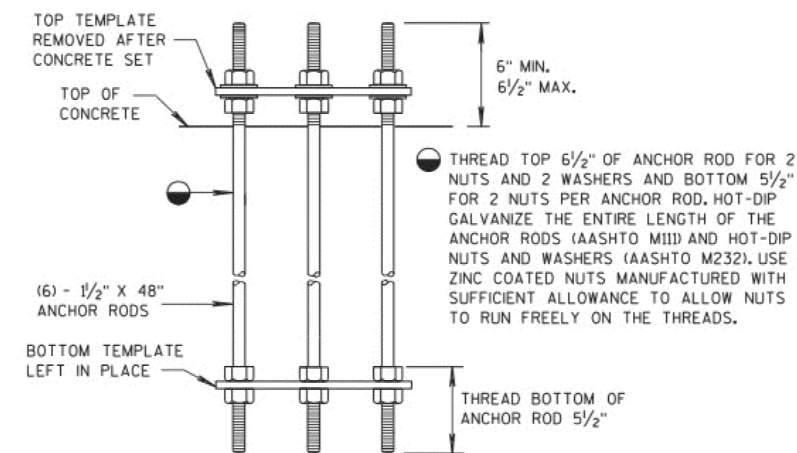
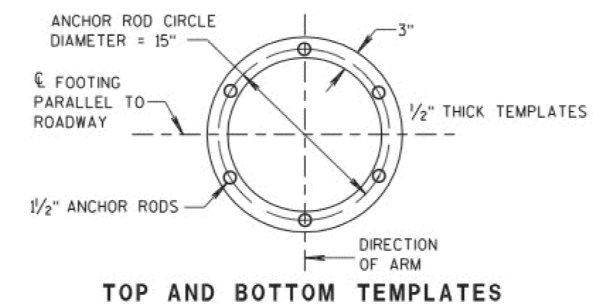
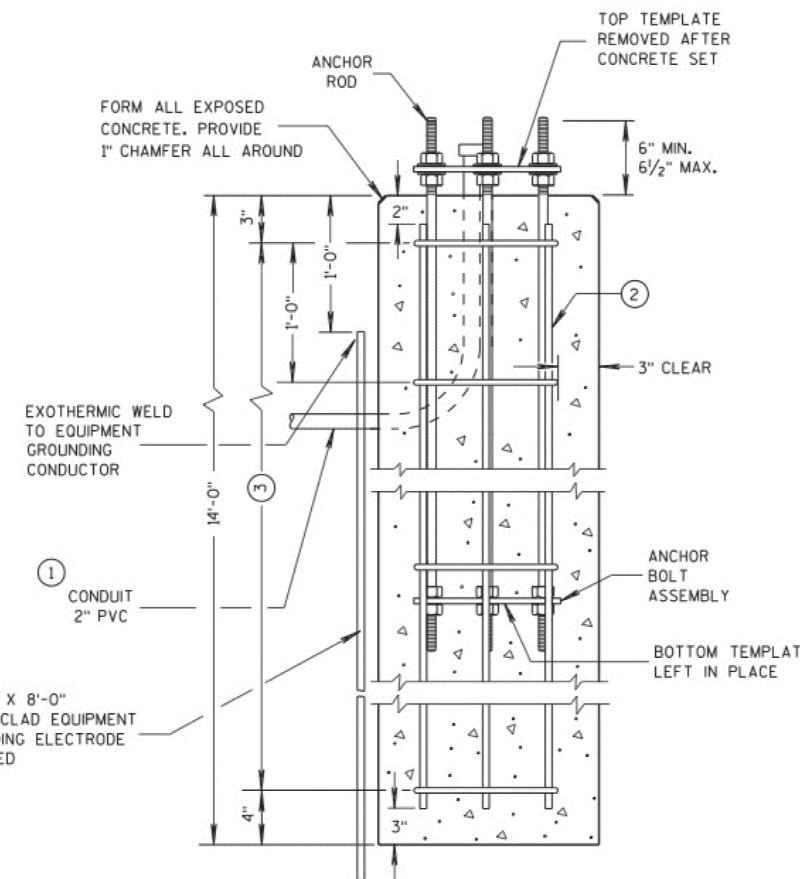
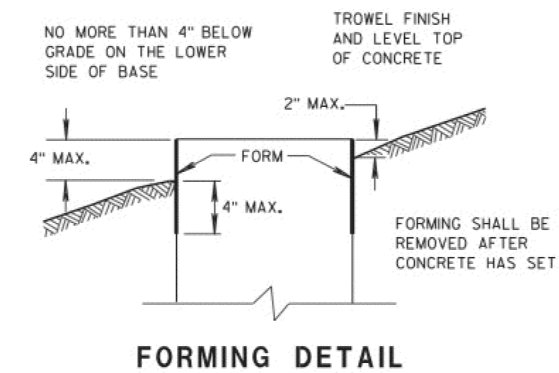
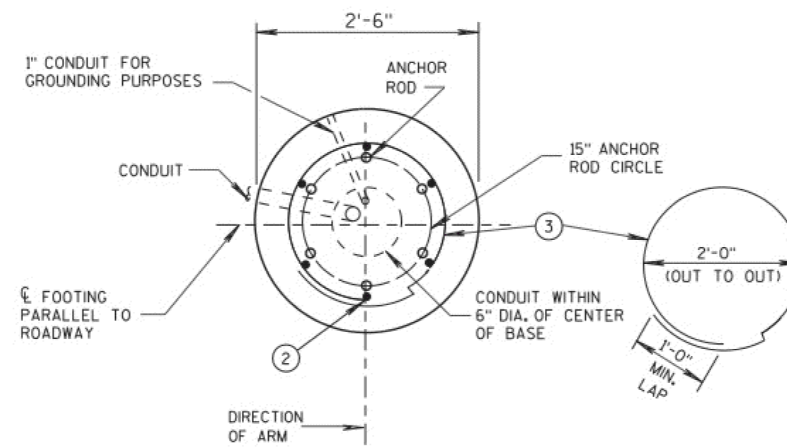
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

① THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

② (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

③ (15) NO. 4 X 7'-4" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

CONCRETE MASONRY -----  $f_c=3,500$  p.s.i.  
 HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 -----  $f_y=60,000$  p.s.i.  
 ANCHOR RODS, AASHTO M314 GRADE 55 -----  $f_y=55,000$  p.s.i.  
 TEMPLATES, ASTM, A709 GRADE 36 -----  $f_y=36,000$  p.s.i.



**CONCRETE BASE TYPE 10  
 (FOR TYPE 9 & 10 POLES)**

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-1 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	69
LBS. OF VERTICAL BAR STEEL	122

**CONCRETE BASE TYPE 10**

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

APPROVED  
 3-2-11 /s/ Thomas J. Corbin

PLOT NAME  
 REV. DATE

**CONDUITS AND WIRING**

FROM	TO	SCHEDULE 80	SCHEDULE 40	SCHEDULE 80	SCHEDULE 40	SCHEDULE 40	60241	60261	60253	COMMENTS
		60222 3" LF	60224 3" LF	60230 2" LF	60232 2" LF	60234 1 1/4" LF	GOPHER RACEWAY LF	ELECTRICAL TRENCH LF	ELECTICAL WIRE LIGHTING 3#4 & 1#8 LF	
SL49A	SL51A	-	-	94	-	-	-	159	-	-
HH1	HH4	610	-	-	-	-	-	305	-	2-3"
SL51A	SL53M	-	-	160	-	-	-	70	160	-
SL53M	SLCCB1	-	-	147	-	-	-	-	157	-
HH4	TS9	-	-	-	7	-	-	7	-	-
HH4	TS10	-	-	-	30	-	-	60	-	-
TS10	LOOP	-	-	8	-	-	-	8	-	-
HH4	HH10	267	-	-	-	-	-	89	-	3-3"
HH4	HH3	98	-	-	-	-	-	49	-	2-3"
HH3	TS8	-	-	-	13	-	-	-	-	-
HH3	HH2	-	-	-	-	24	-	24	-	-
HH3	HH5	82	-	-	-	-	-	41	-	2-3"
HH2	LOOPS	-	-	6	-	-	-	-	-	-
HH3	LOOP	-	-	5	-	-	-	-	-	-
HH5	TS5	-	-	-	12	-	-	-	-	-
HH5	TS6	-	-	-	30	-	-	18	-	-
HH5	T7	-	-	-	42	-	-	42	-	-
HH5	HH9	95	-	-	-	-	-	95	-	-
HH5	HH6	110	-	-	-	-	-	55	-	2-3"
HH6	EXISTING TO WEST	18	-	-	-	-	-	9	-	2-3"
HH6	TS4	-	-	-	7	-	-	7	-	-
HH6	EXISTING TO EAST	94	-	-	-	-	-	-	-	2-3"
HH6	HH8	93	-	-	-	-	-	93	-	-
SL52A	HH7	-	-	30	-	-	-	-	150	-
HH8	TS3	-	-	-	40	-	-	30	-	-
TS3	LOOP	-	-	8	-	-	-	8	-	-
HH8	HH7	-	-	-	13	-	-	6	-	-
HH8	TS2	-	-	-	8	-	-	8	-	-
HH7	SL54A	-	-	-	-	-	-	-	19	-
HH8	HH9	106	-	-	-	-	-	53	-	-
HH9	TS10	-	-	-	5	-	-	5	-	-
HH9	LOOPS	-	-	18	-	-	-	18	-	-
HH9	HH10	134	-	-	-	-	-	67	-	-
HH7	SLCCB1	-	-	147	-	-	-	147	314	2 RUNS OF 3#4 & 1#8
SLCCB1	SL55	-	-	-	44	-	-	-	54	-
HH10	EXISTING TO NORTH	-	-	-	56	-	-	45	-	-
HH10	TSCCB1	-	123	-	-	-	-	-	-	3-3"
HH10	SL55A	-	-	-	7	-	-	7	-	-
HH10	HH11	462	-	-	-	-	-	231	-	2-3"
SL55A	SL57M	-	-	142	-	-	-	-	152	-
SL57M	SL59A	-	-	146	-	-	-	-	156	-
HH11	EXISTING TO EAST	266	-	-	-	-	-	133	-	2-3"
SL59A	SL61M	-	-	84	-	-	-	-	165	-
UNDISTRIBUTED		-	-	-	-	-	60	-	-	-
		2435	123	985	314	24	60	1730	1486	

**PULLBOXES**

STRUCTURE	60702	60704	60706	90201	60431	COMMENT
	TYPE I EACH	TYPE III EACH	TYPE V EACH	TYPE VII EACH	ABANDON HH EACH	
HH 1	-	-	-	-	-	EXISTING
HH 2	-	1	-	-	-	-
HH 3	1	-	-	-	-	-
HH 4	-	-	1	-	1	-
HH 5	1	-	-	-	-	-
HH 6	-	-	1	-	1	-
HH 7	-	-	-	-	-	EXISTING
HH 8	-	-	1	-	-	-
HH 9	1	-	-	-	-	-
HH 10	-	-	-	1	1	-
HH 11	1	-	-	-	1	-
	4	1	3	1	4	

**BASES, LIGHT POLES AND ELEC SERVICES**

STRUCTURE	60411	60412	60413	90203	90202	60421	60422	60425	60501	60602
	G-BASE EACH	M-BASE EACH	P-BASE EACH	STREET LIGHT BASE SPECIAL EACH	TYPE 10 BASE EACH	REMOVE STR LIGHT BASE EACH	REMOVE STR LIGHT POLE EACH	REMOVE STR LIGHT CABINET EACH	INSTALL LIGHT UNIT EACH	METERED ELEC SERVICE EACH
SL51A	-	-	-	1	-	1	1	-	1	-
TS9	-	-	-	-	1	-	-	-	-	-
TS10	1	-	-	-	-	-	-	-	-	-
TS8	1	-	-	-	-	-	-	-	-	-
TS4	1	-	-	-	-	-	-	-	-	-
TS5	1	-	-	-	-	-	-	-	-	-
TS6	1	-	-	-	-	-	-	-	-	-
TS7	1	-	-	-	-	-	-	-	-	-
TS3	1	-	-	-	-	-	-	-	-	-
TS2	-	-	-	-	1	-	-	-	-	-
TS1	1	-	-	-	-	-	-	-	-	-
SL55A	-	-	-	1	-	1	1	-	1	-
TSCCB1	-	-	1	-	-	-	-	-	-	1
SLCCB1	-	1	-	-	-	-	-	1	-	1
SL57M	-	-	-	1	-	1	1	-	1	-
SL59A	-	-	-	1	-	1	1	-	1	-
	8	1	1	4	2	4	4	1	4	2

REV. DATE

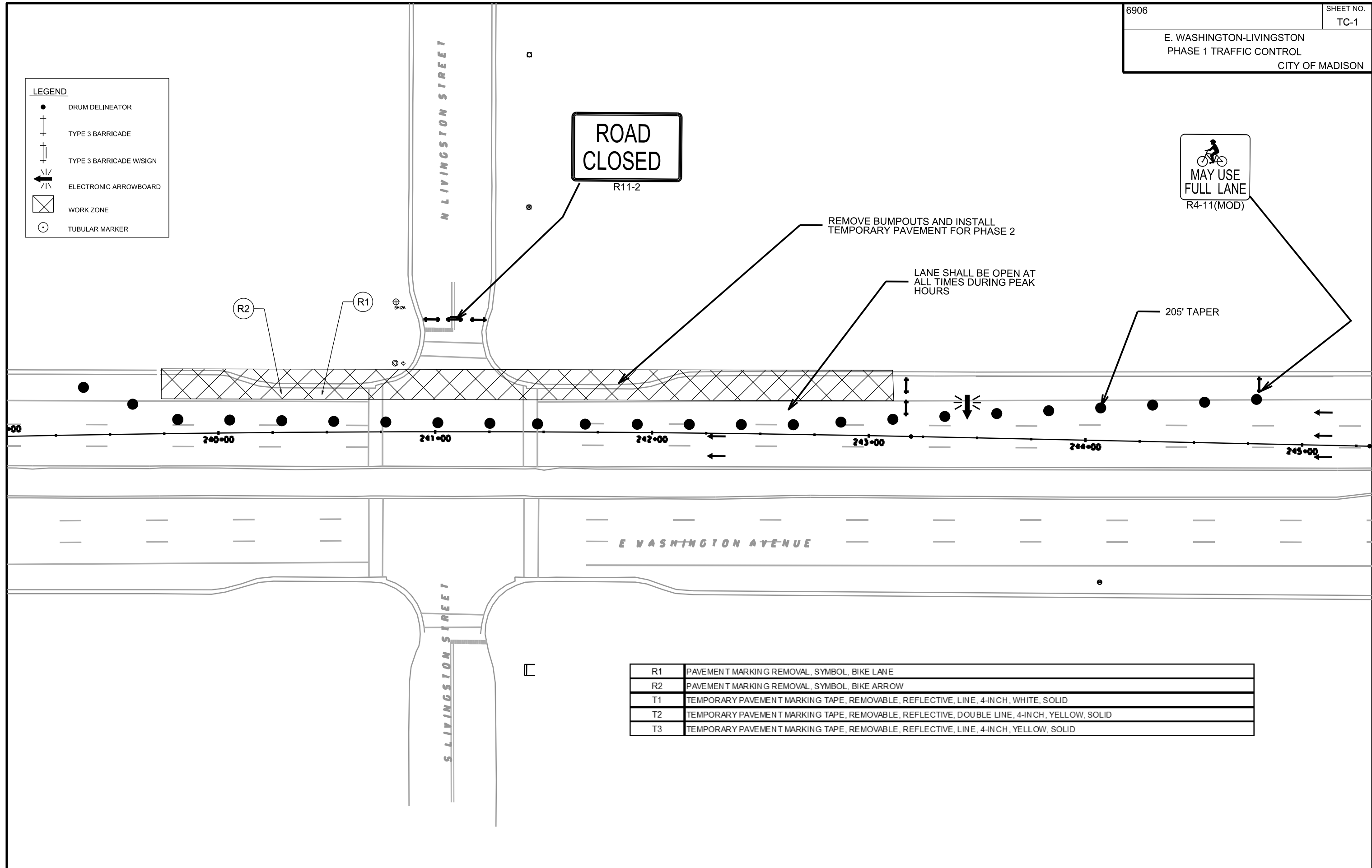
**LEGEND**

- DRUM DELINEATOR
- ⊕ TYPE 3 BARRICADE
- ⊕ TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊗ WORK ZONE
- TUBULAR MARKER

**ROAD  
CLOSED**

**MAY USE  
FULL LANE**  
R4-11(MOD)

PLOT SCALE:  
PLOT NAME:  
REV. DATE:  
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



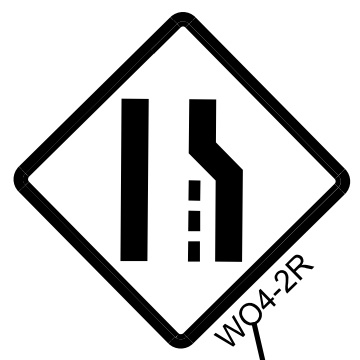
R1	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE LANE
R2	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE ARROW
T1	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, WHITE, SOLID
T2	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, DOUBLE LINE, 4-INCH, YELLOW, SOLID
T3	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, YELLOW, SOLID

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



WO4-2R

246+00

PATTERSON STREET



W20-5L



W20-5R



W20-1

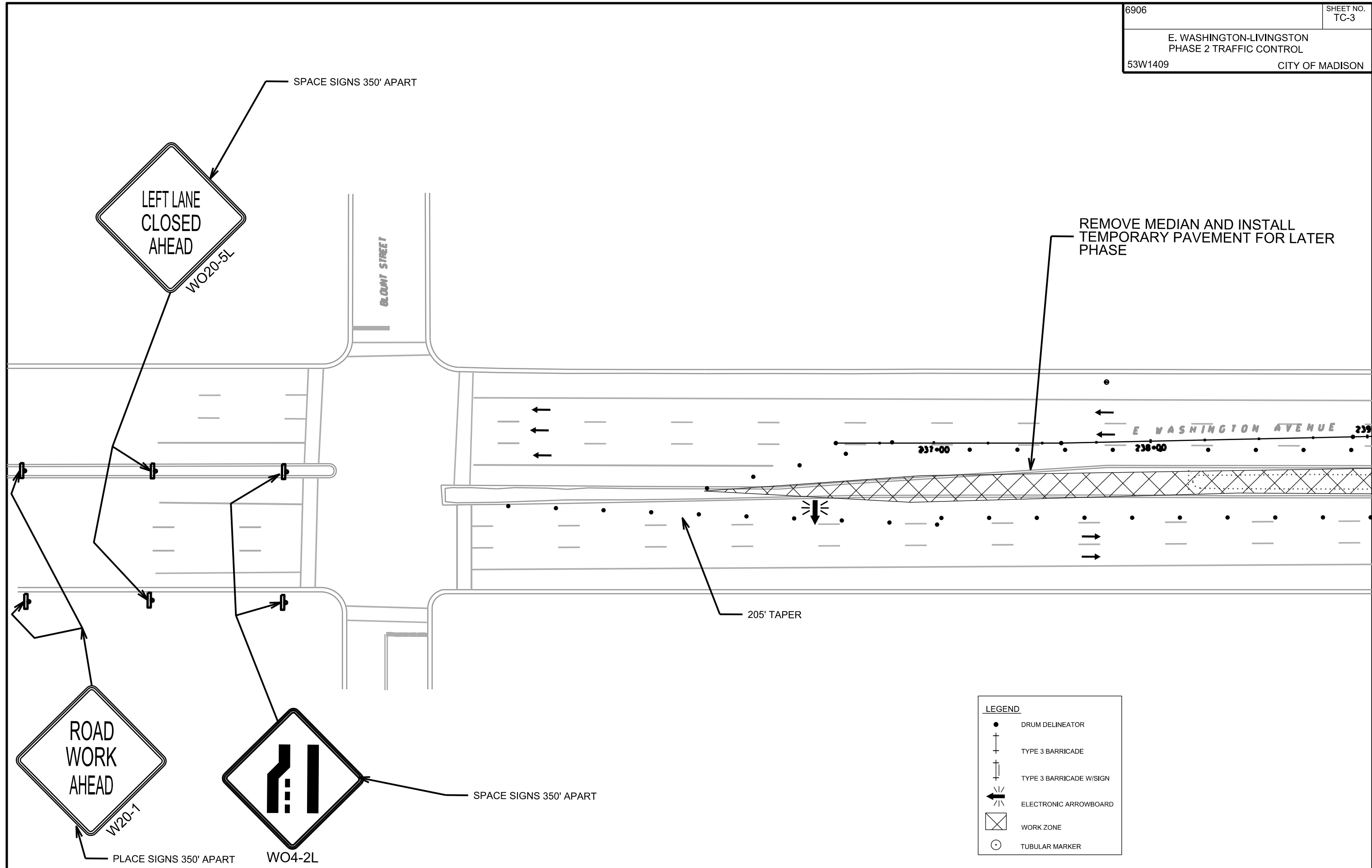
E WASHINGTON AVENUE



W20-5R

LEGEND	
	DRUM DELINEATOR
	TYPE 3 BARRICADE
	TYPE 3 BARRICADE W/SIGN
	ELECTRONIC ARROWBOARD
	WORK ZONE
	TUBULAR MARKER

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



**LEGEND**

●	DRUM DELINEATOR
+	TYPE 3 BARRICADE
+	TYPE 3 BARRICADE W/SIGN
←	ELECTRONIC ARROWBOARD
⊠	WORK ZONE
○	TUBULAR MARKER

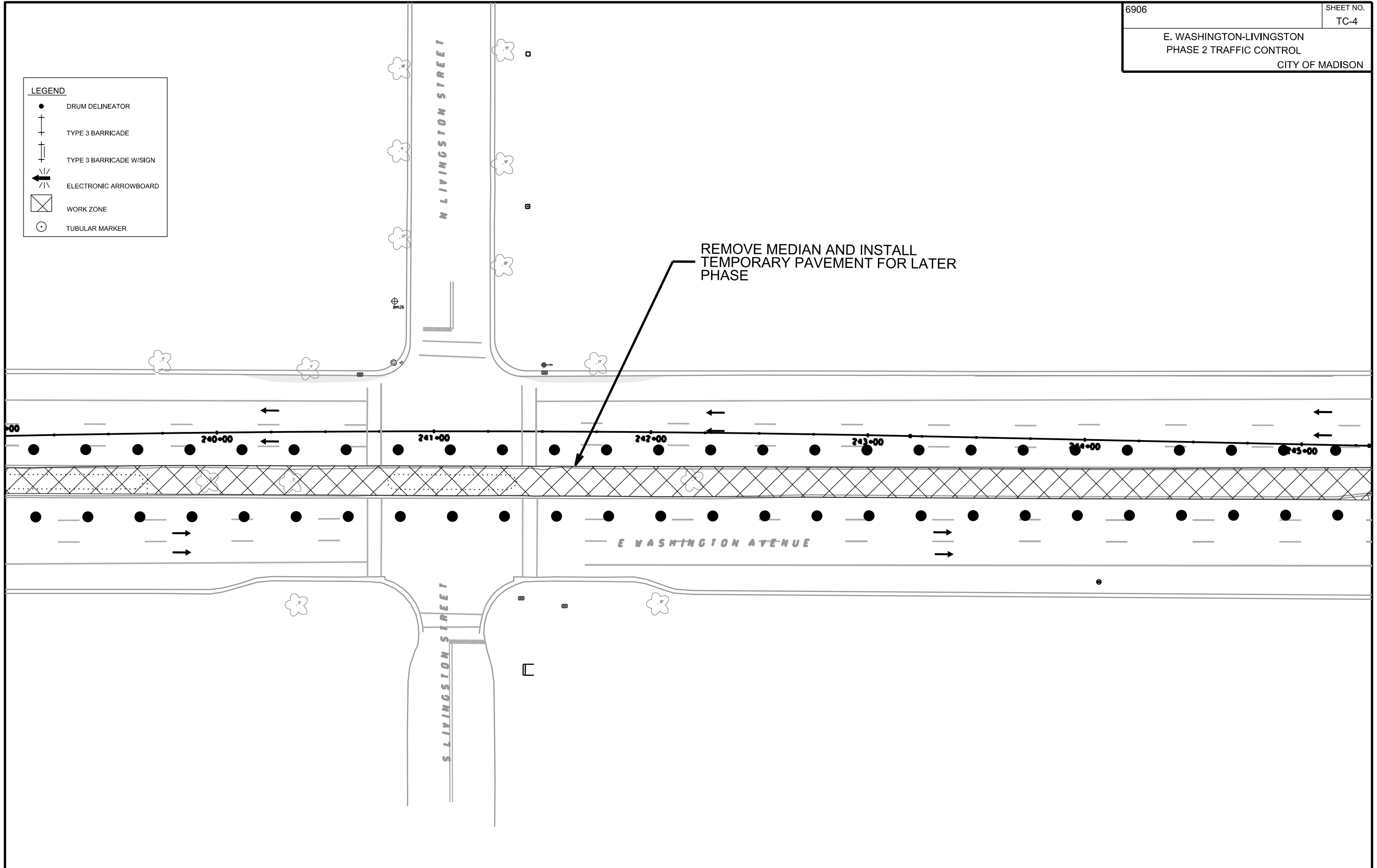
LEGEND	
●	DRUM DELINEATOR
+	TYPE 3 BARRICADE
⊥	TYPE 3 BARRICADE W/SIGN
←	ELECTRONIC ARROWBOARD
⊗	WORK ZONE
○	TUBULAR MARKER

PLOT SCALE:

PLOT NAME:

REV. DATE:

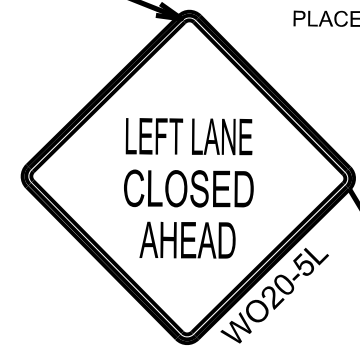
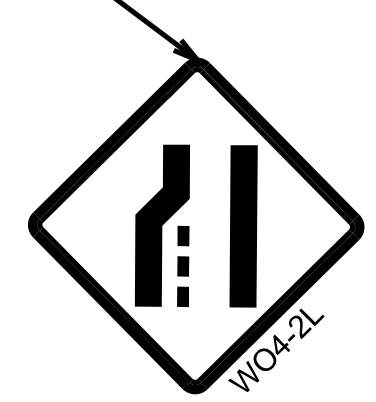
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



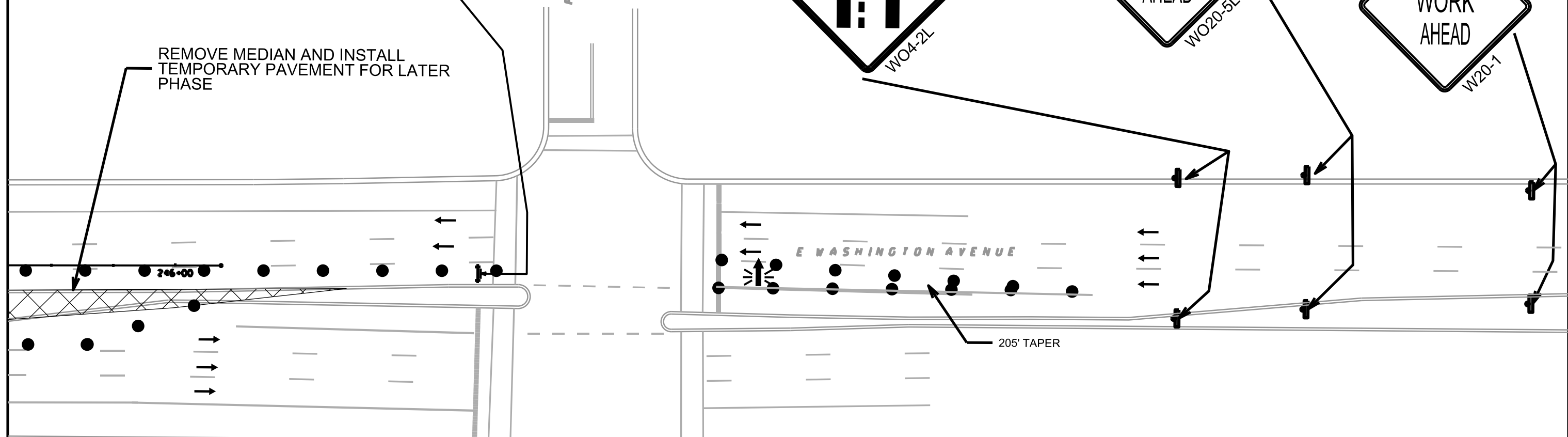
PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

PLACE SIGNS 350' APART

**LANE  
CLOSED**  
R11-2(MOD)



REMOVE MEDIAN AND INSTALL  
TEMPORARY PAVEMENT FOR LATER  
PHASE



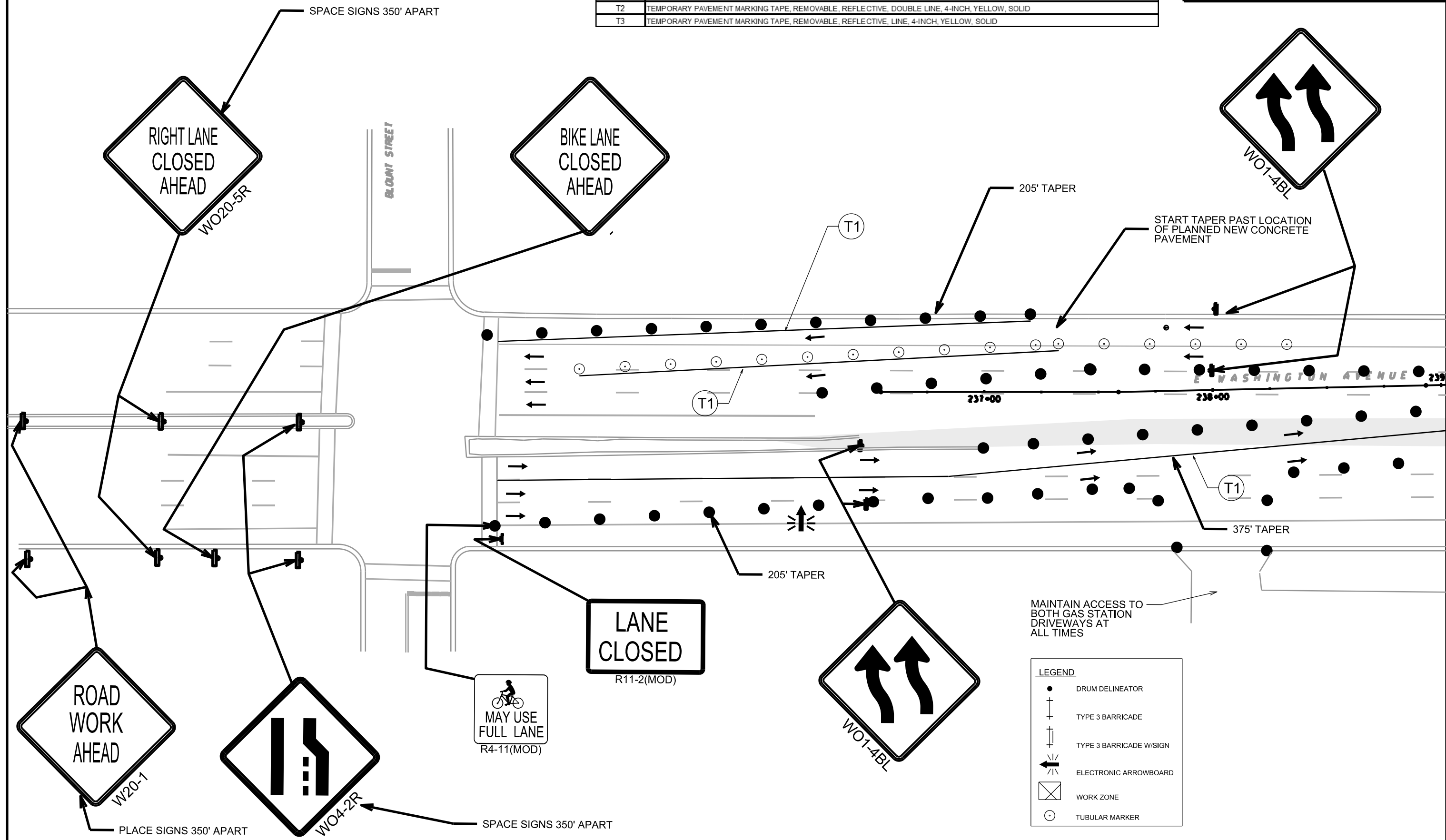
205' TAPER

**LEGEND**

●	DRUM DELINEATOR
+	TYPE 3 BARRICADE
+	TYPE 3 BARRICADE W/SIGN
←	ELECTRONIC ARROWBOARD
⊗	WORK ZONE
○	TUBULAR MARKER

R1	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE LANE
R2	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE ARROW
T1	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, WHITE, SOLID
T2	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, DOUBLE LINE, 4-INCH, YELLOW, SOLID
T3	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, YELLOW, SOLID

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



**LEGEND**

- DRUM DELINEATOR
- ⊥ TYPE 3 BARRICADE
- ⊥ TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊠ WORK ZONE
- TUBULAR MARKER

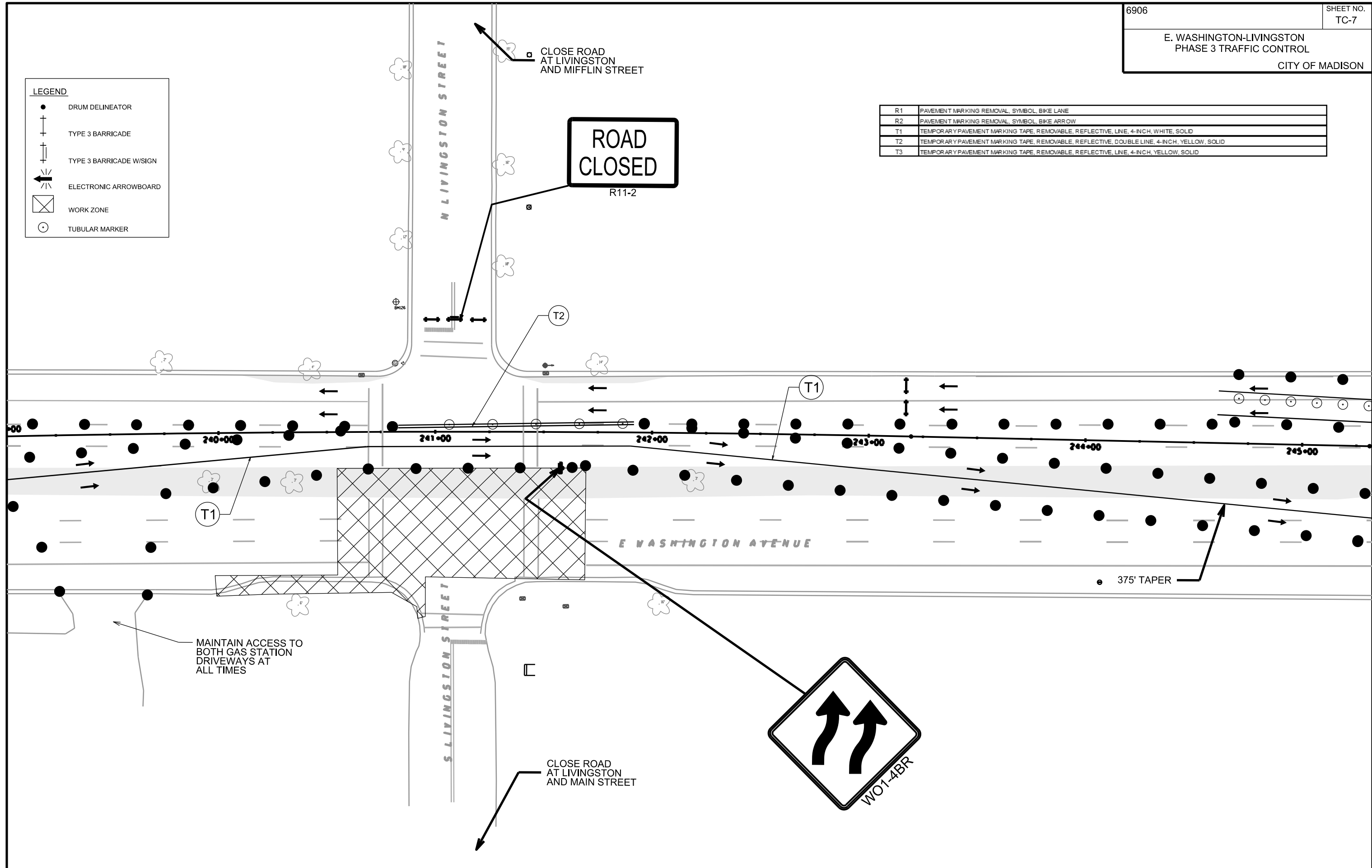


**LEGEND**

- DRUM DELINEATOR
- ⊥ TYPE 3 BARRICADE
- ⊥ TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊠ WORK ZONE
- TUBULAR MARKER

R1	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE LANE
R2	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE ARROW
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T3	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, YELLOW, SOLID

PLOT SCALE:  
PLOT NAME:  
REV. DATE:  
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

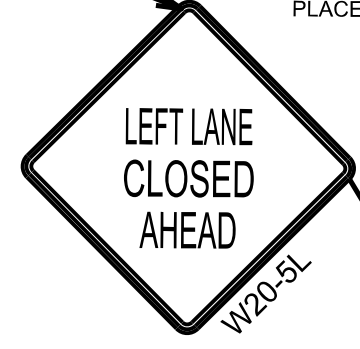
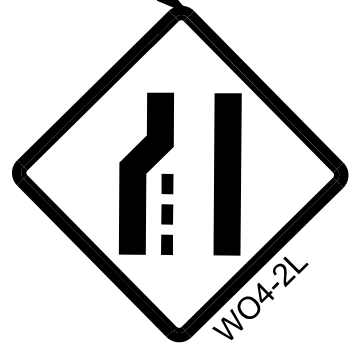


PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

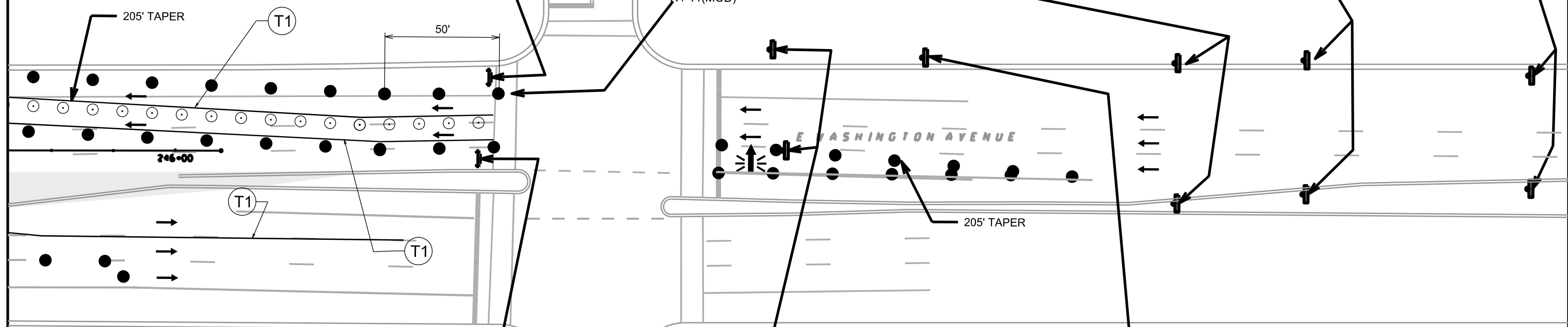
PLACE SIGNS 350' APART

**LANE CLOSED**  
 R11-2(MOD)

**MAY USE FULL LANE**  
 R4-11(MOD)



**LANE CLOSED**  
 R11-2(MOD)



R1	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE LANE
R2	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE ARROW
T1	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, WHITE, SOLID
T2	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, DOUBLE LINE, 4-INCH, YELLOW, SOLID
T3	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, YELLOW, SOLID

**LEGEND**

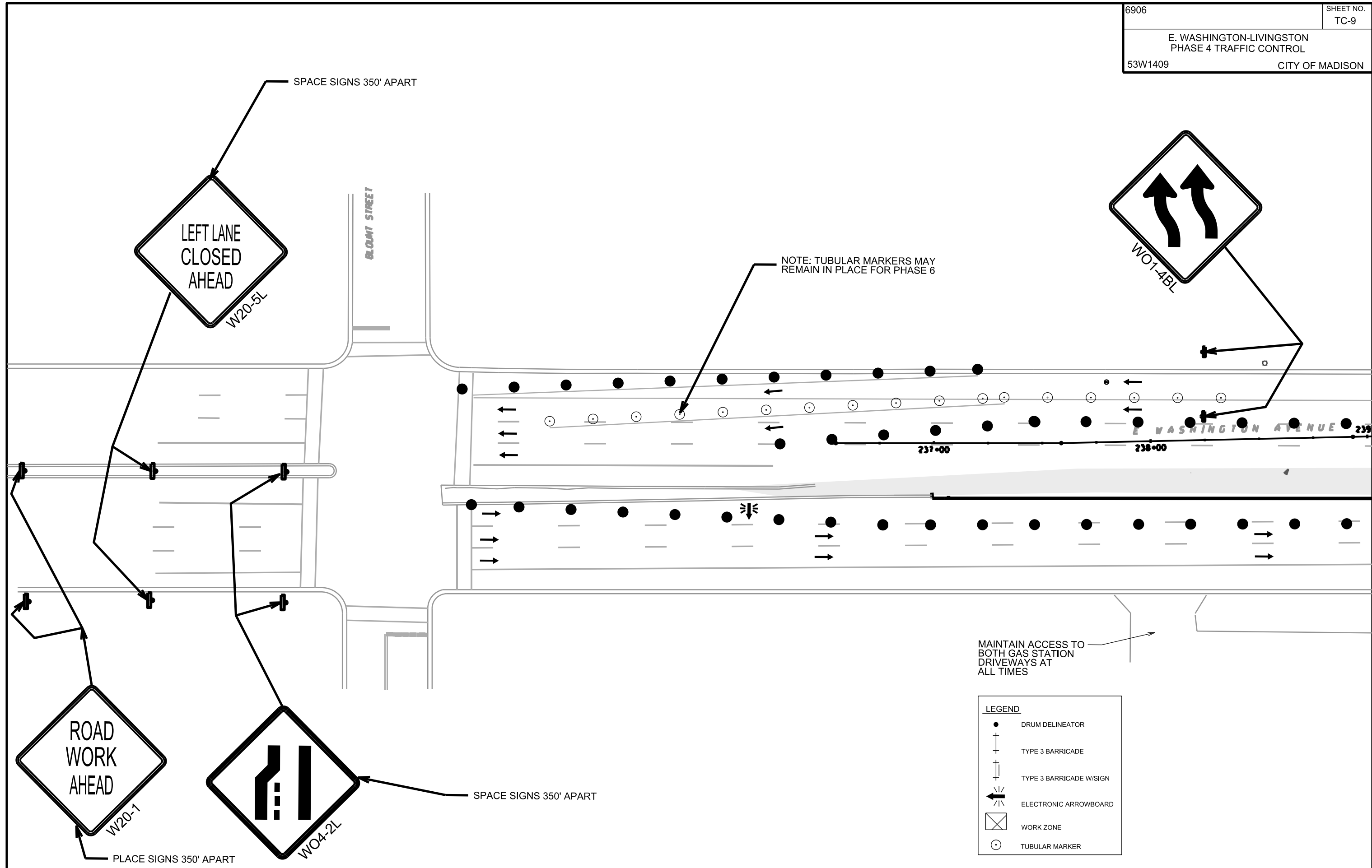
●	DRUM DELINEATOR
⊥	TYPE 3 BARRICADE
⊥	TYPE 3 BARRICADE W/SIGN
↔	ELECTRONIC ARROWBOARD
⊠	WORK ZONE
○	TUBULAR MARKER

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



SPACE SIGNS 350' APART

NOTE: TUBULAR MARKERS MAY REMAIN IN PLACE FOR PHASE 6

MAINTAIN ACCESS TO BOTH GAS STATION DRIVEWAYS AT ALL TIMES

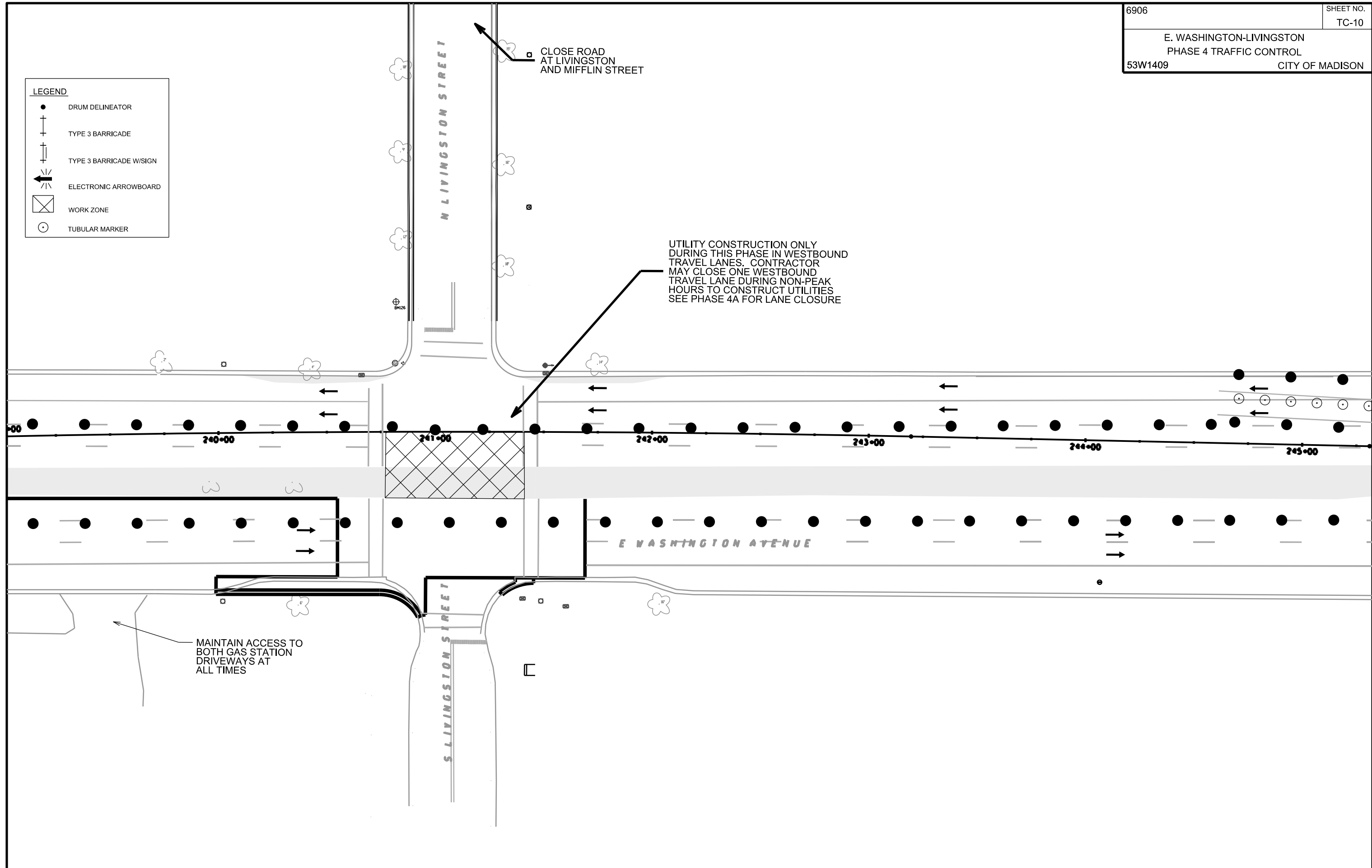
**LEGEND**

- DRUM DELINEATOR
- † TYPE 3 BARRICADE
- † TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊠ WORK ZONE
- TUBULAR MARKER

**LEGEND**

- DRUM DELINEATOR
- ⊕ TYPE 3 BARRICADE
- ⊕ TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊗ WORK ZONE
- TUBULAR MARKER

PLOT SCALE:  
PLOT NAME:  
REV. DATE:  
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

PLACE SIGNS 350' APART

**LANE CLOSED**  
 R11-2(MOD)

NOTE: TUBULAR MARKERS MAY REMAIN IN PLACE FOR PHASE 6

50'

246+00

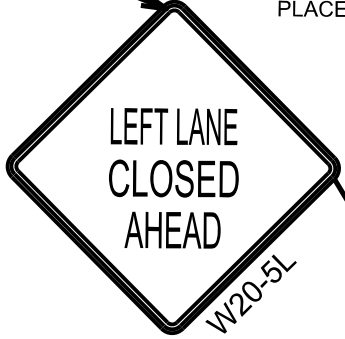
PATTERSON STREET

E WASHINGTON AVENUE

**MAY USE FULL LANE**  
 R4-11(MOD)



W04-2L



W20-5L



W20-1



W01-4BR

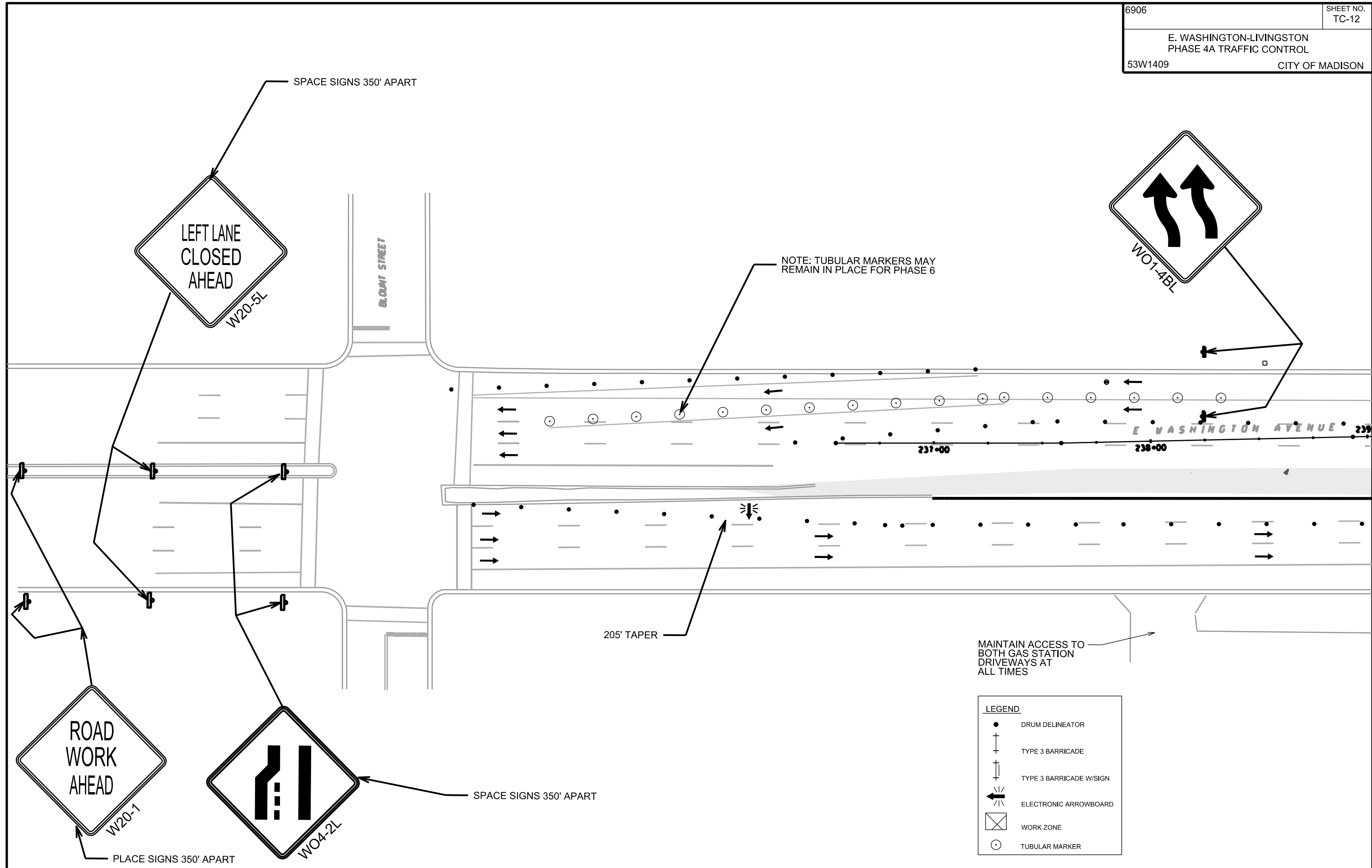


W20-5L

**LEGEND**

●	DRUM DELINEATOR
⊢	TYPE 3 BARRICADE
⊢	TYPE 3 BARRICADE W/SIGN
⬅	ELECTRONIC ARROWBOARD
⊠	WORK ZONE
○	TUBULAR MARKER

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

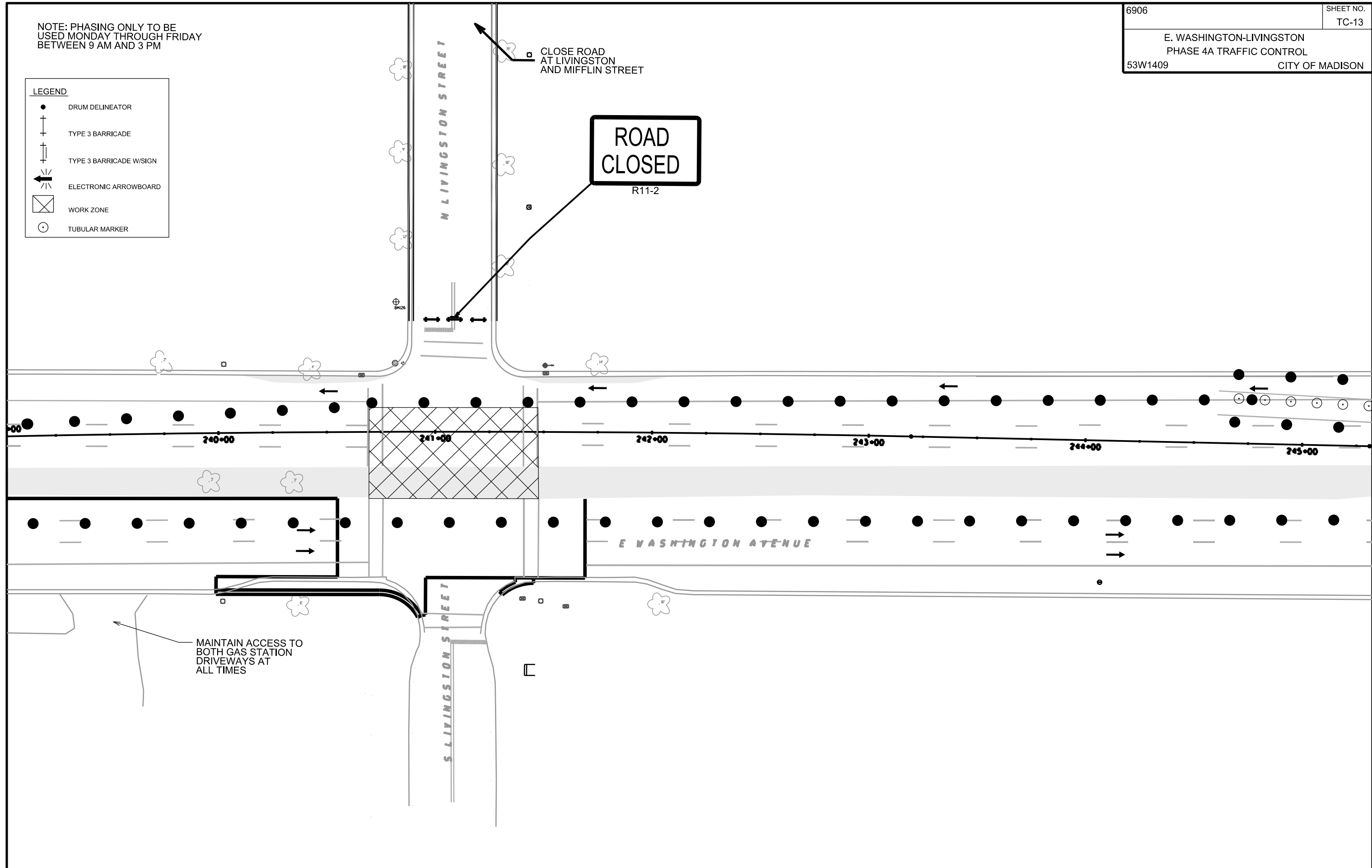


NOTE: PHASING ONLY TO BE USED MONDAY THROUGH FRIDAY BETWEEN 9 AM AND 3 PM

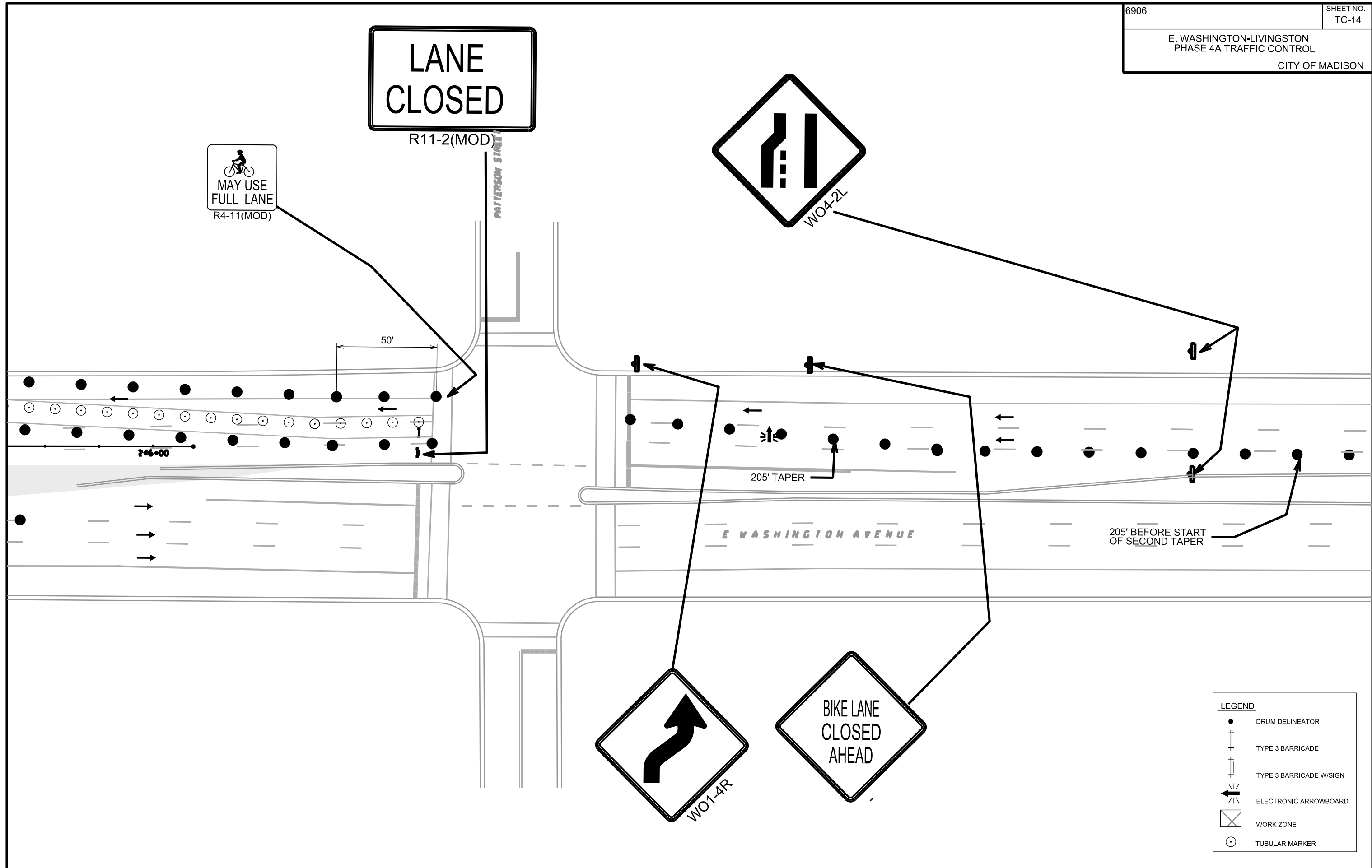
**LEGEND**

- DRUM DELINEATOR
- ⊕ TYPE 3 BARRICADE
- ⊕ TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊗ WORK ZONE
- TUBULAR MARKER

PLOT SCALE:  
PLOT NAME:  
REV. DATE:  
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

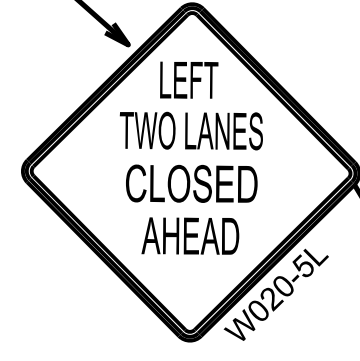
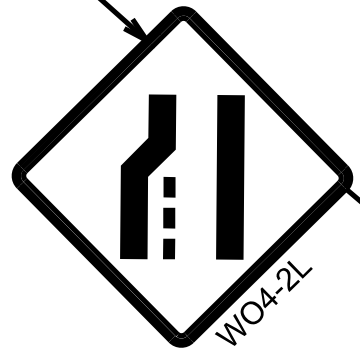




PLACE SIGNS 350' APART

PLACE SIGNS 350' APART

PLACE SIGNS 350' APART



BREARLY STREET

E WASHINGTON AVENUE

205' TAPER

PLOT SCALE:

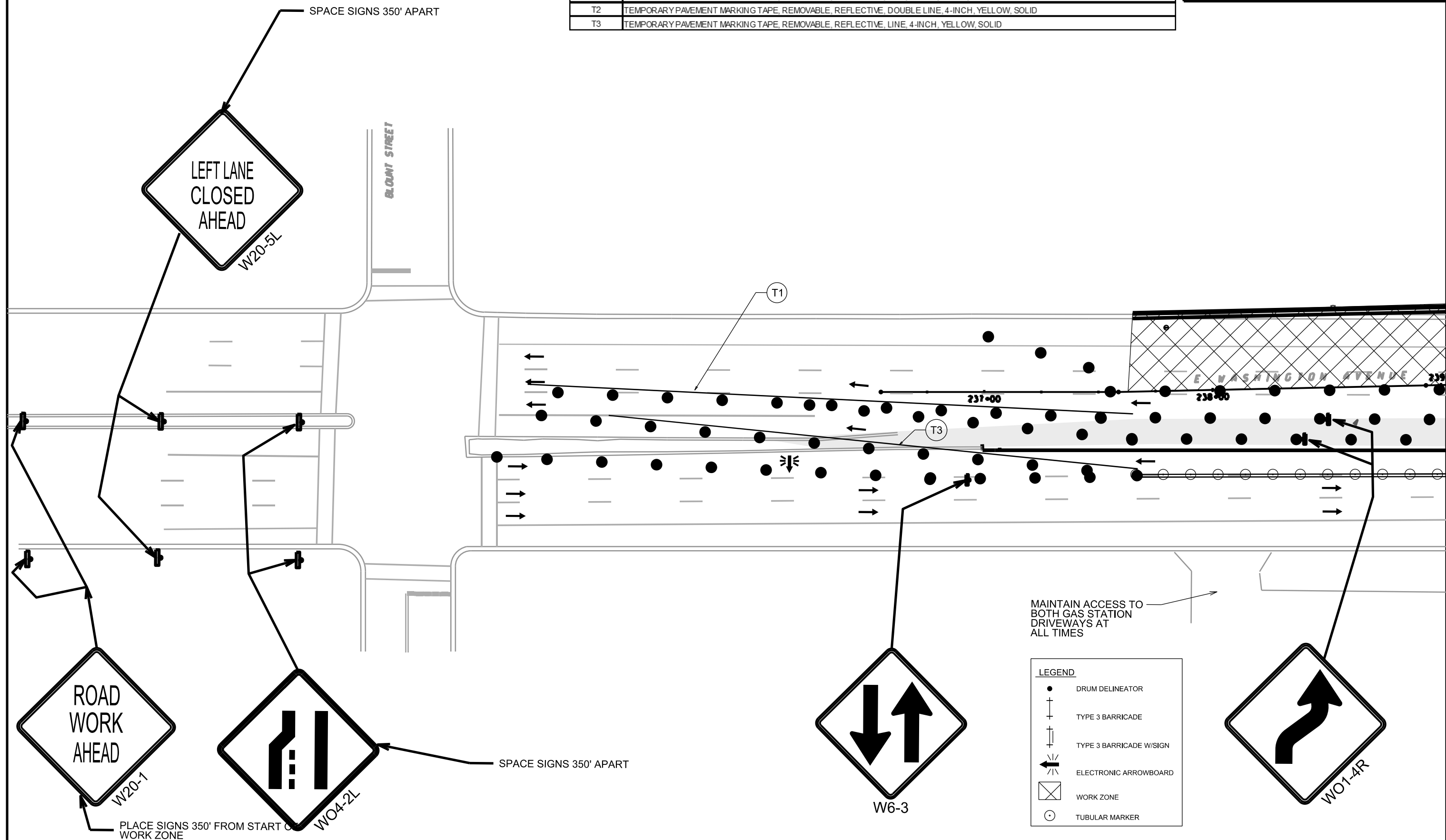
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

R1	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE LANE
R2	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE ARROW
T1	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, WHITE, SOLID
T2	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, DOUBLE LINE, 4-INCH, YELLOW, SOLID
T3	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, YELLOW, SOLID

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

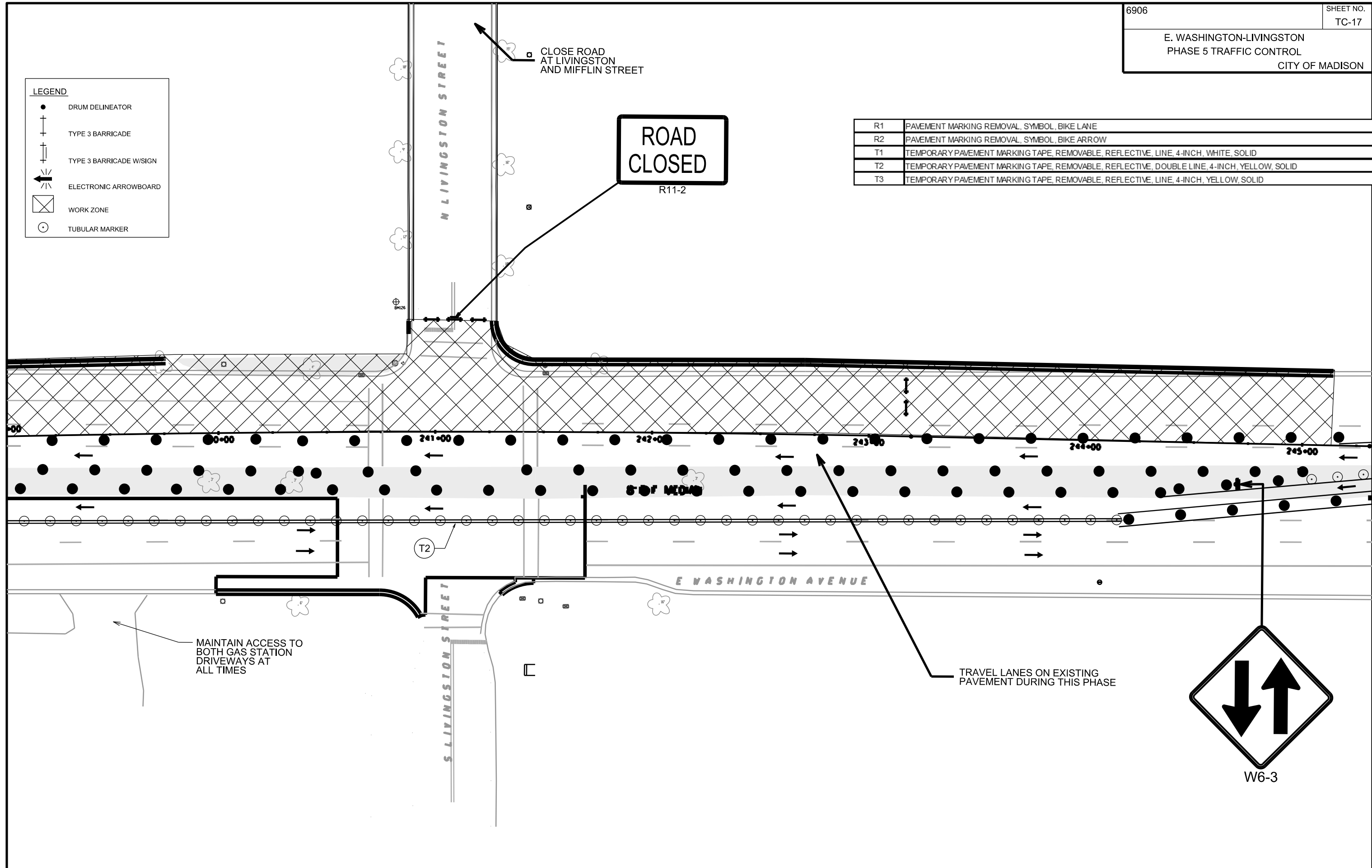


**LEGEND**

- DRUM DELINEATOR
- ⊥ TYPE 3 BARRICADE
- ⊥ TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊠ WORK ZONE
- TUBULAR MARKER

R1	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE LANE
R2	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE ARROW
T1	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, WHITE, SOLID
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PLOT SCALE:  
PLOT NAME:  
REV. DATE:  
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

PLACE SIGNS 350' APART

**LANE CLOSED**  
 R11-2(MOD)

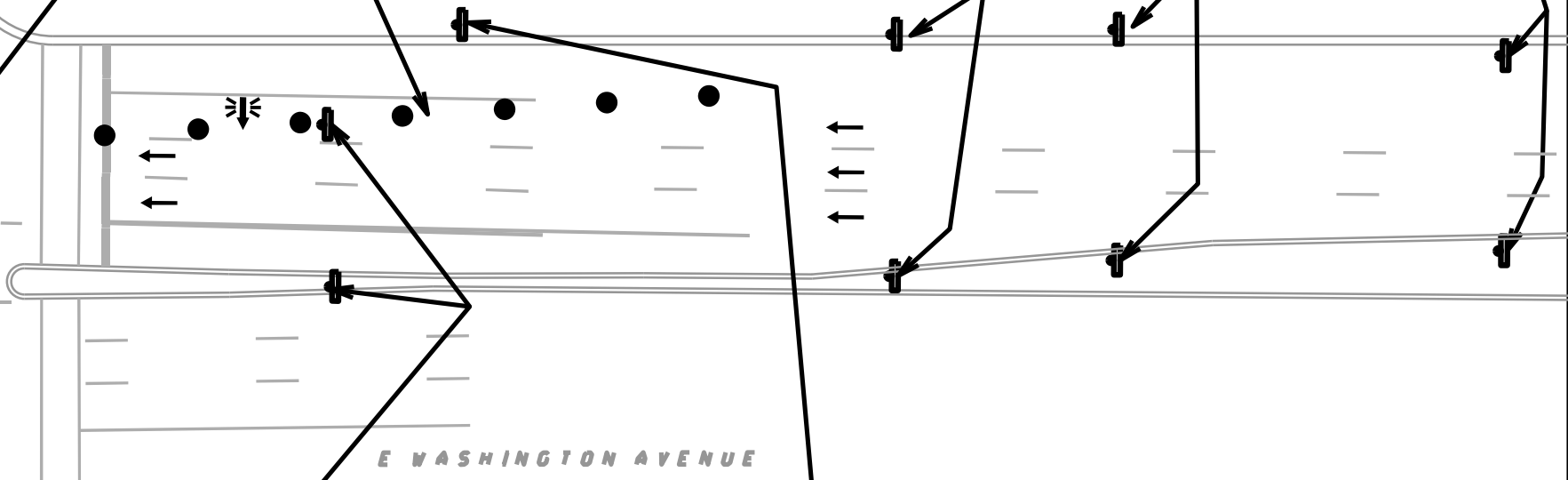
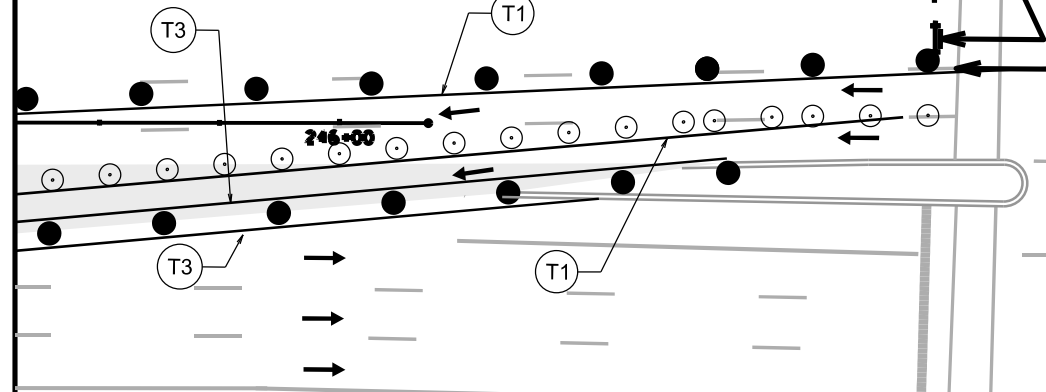
**RIGHT LANE CLOSED AHEAD**  
 W04-2R

**RIGHT LANE CLOSED AHEAD**  
 W020-5R

**ROAD WORK AHEAD**  
 W20-1

**MAY USE FULL LANE**  
 R4-11(MOD)

205' TAPER



**BIKE LANE CLOSED AHEAD**  
 W01-4BL

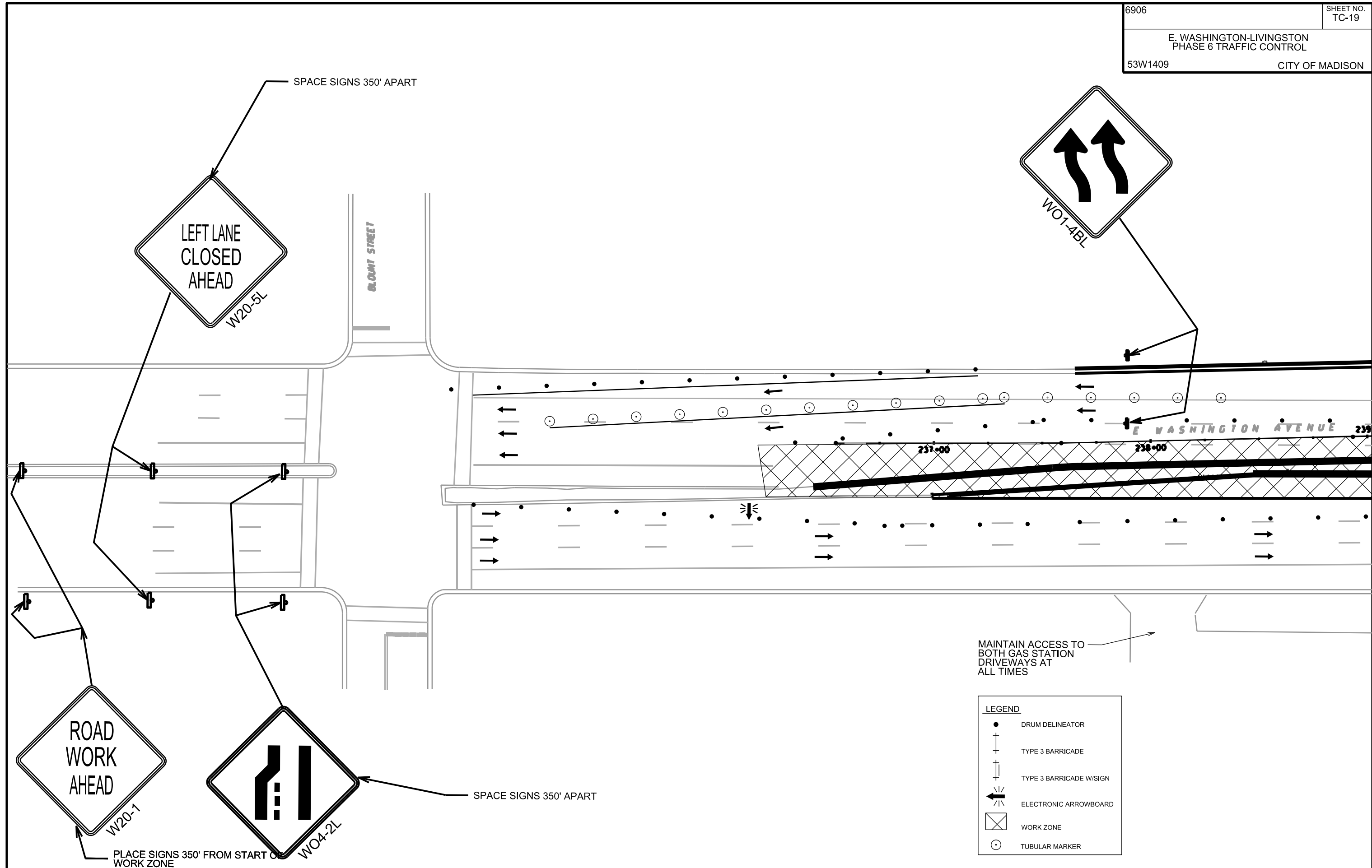
**BIKE LANE CLOSED AHEAD**  
 W20-5L

R1	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE LANE
R2	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE ARROW
T1	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, WHITE, SOLID
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T3	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, YELLOW, SOLID

**LEGEND**

●	DRUM DELINEATOR
⊥	TYPE 3 BARRICADE
⊥	TYPE 3 BARRICADE W/SIGN
←	ELECTRONIC ARROWBOARD
⊠	WORK ZONE
○	TUBULAR MARKER

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



**LEGEND**

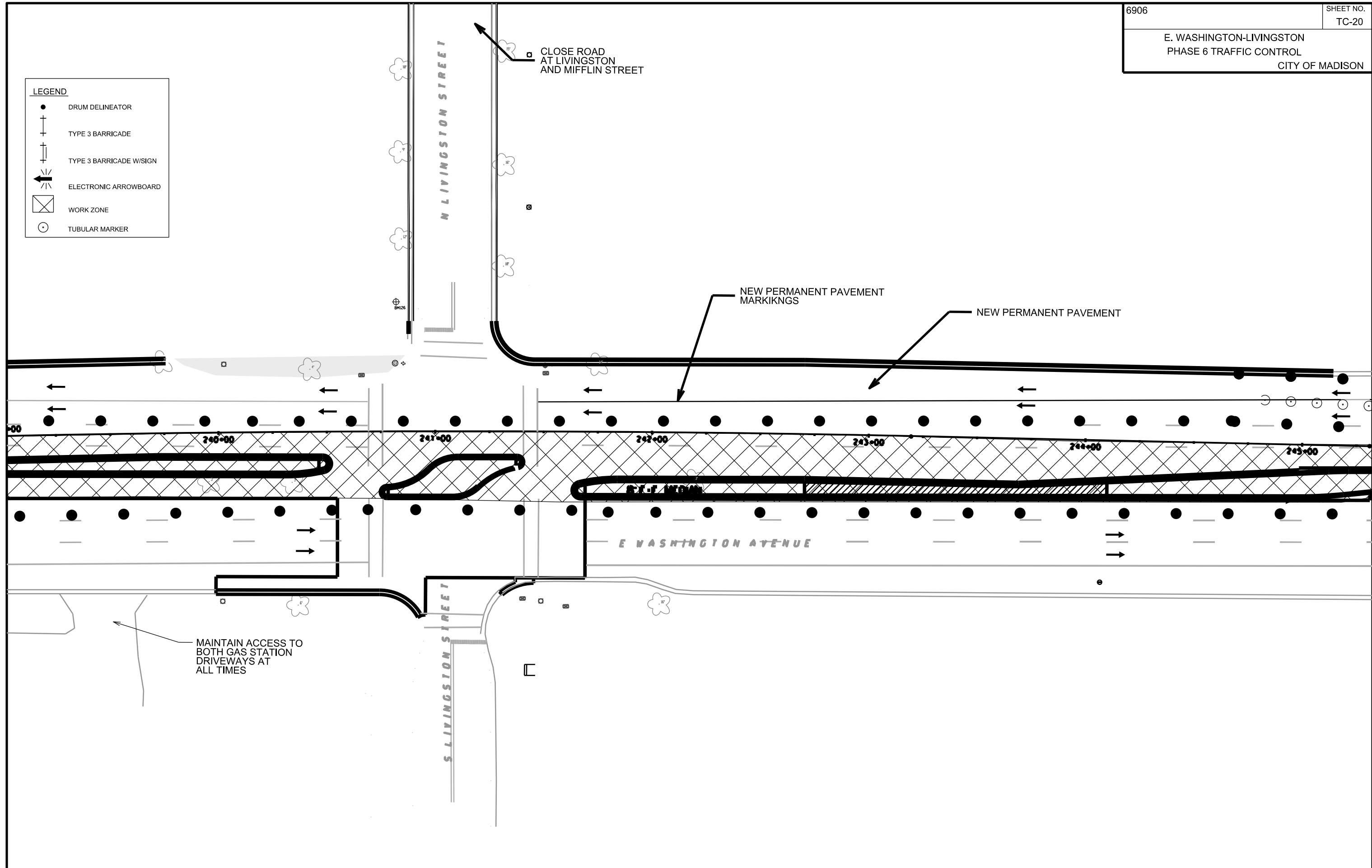
- DRUM DELINEATOR
- ⊕ TYPE 3 BARRICADE
- ⊕ TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊗ WORK ZONE
- TUBULAR MARKER

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

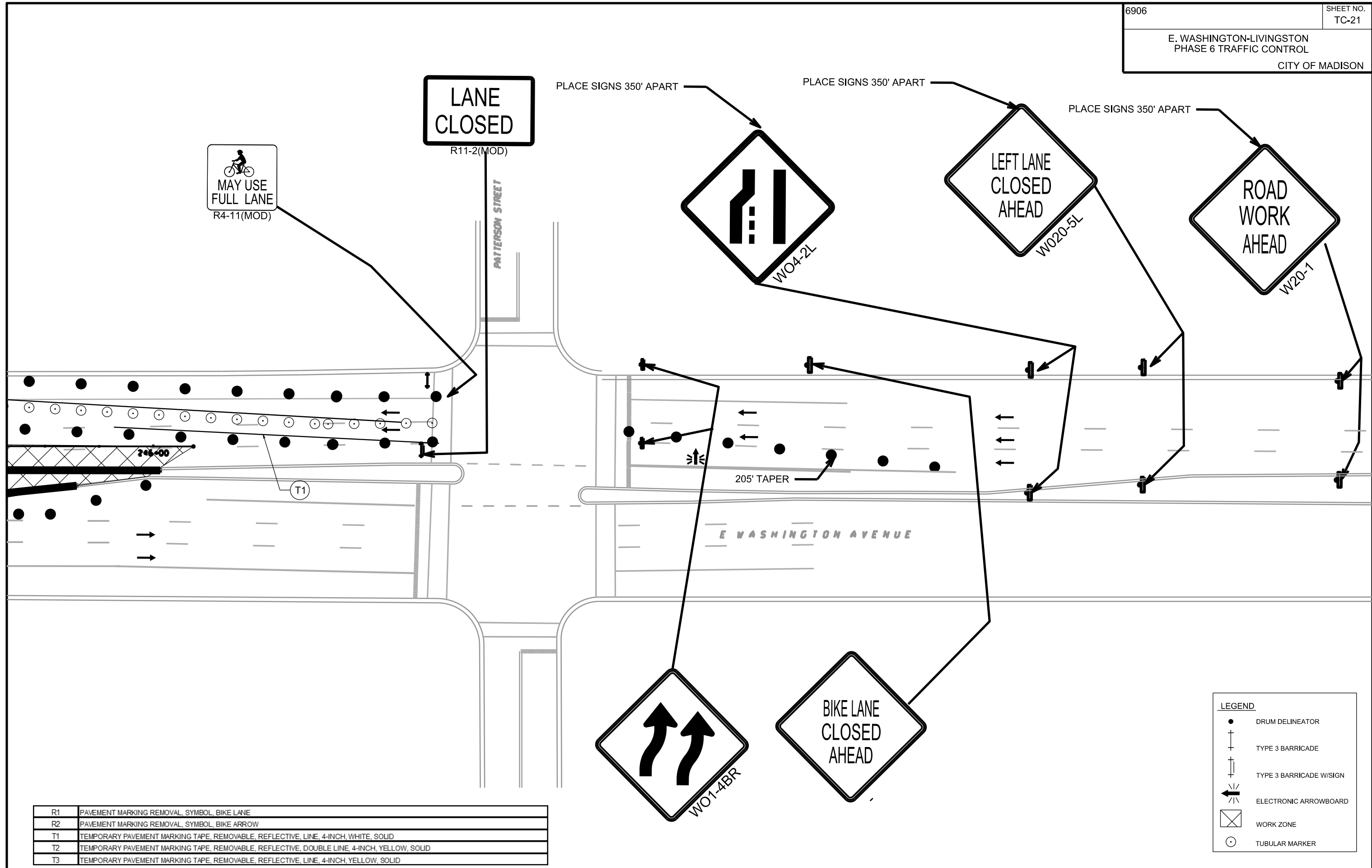


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



R1	PAVEMENT MARKING REMOVAL, SYMBOL, BIKE LANE
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T3	TEMPORARY PAVEMENT MARKING TAPE, REMOVABLE, REFLECTIVE, LINE, 4-INCH, YELLOW, SOLID

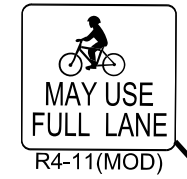
**LEGEND**

- DRUM DELINEATOR
- TYPE 3 BARRICADE
- TYPE 3 BARRICADE W/SIGN
- ELECTRONIC ARROWBOARD
- WORK ZONE
- TUBULAR MARKER

**LEGEND**

- DRUM DELINEATOR
- ⊕ TYPE 3 BARRICADE
- ⊕ TYPE 3 BARRICADE W/SIGN
- ← ELECTRONIC ARROWBOARD
- ⊗ WORK ZONE
- TUBULAR MARKER

TRAVEL LANE SHALL  
BE OPENED DURING  
PEAK HOURS WITH  
LANE CLOSURE SIGNAGE  
COVERED. BIKE LANE  
CLOSURE SIGNAGE SHALL  
REMAIN IN PLACE AT ALL TIMES

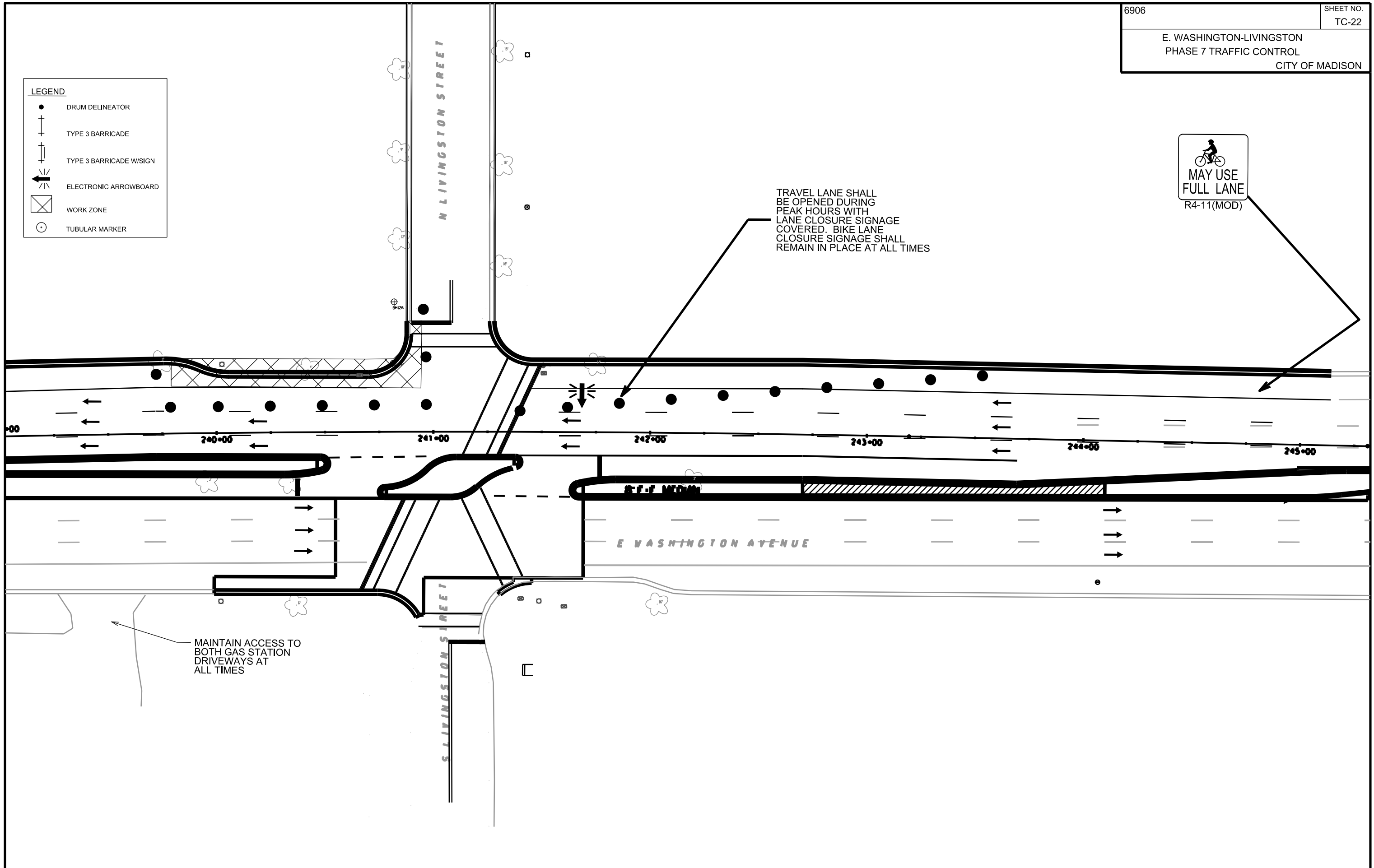


PLOT SCALE:

PLOT NAME:

REV. DATE:

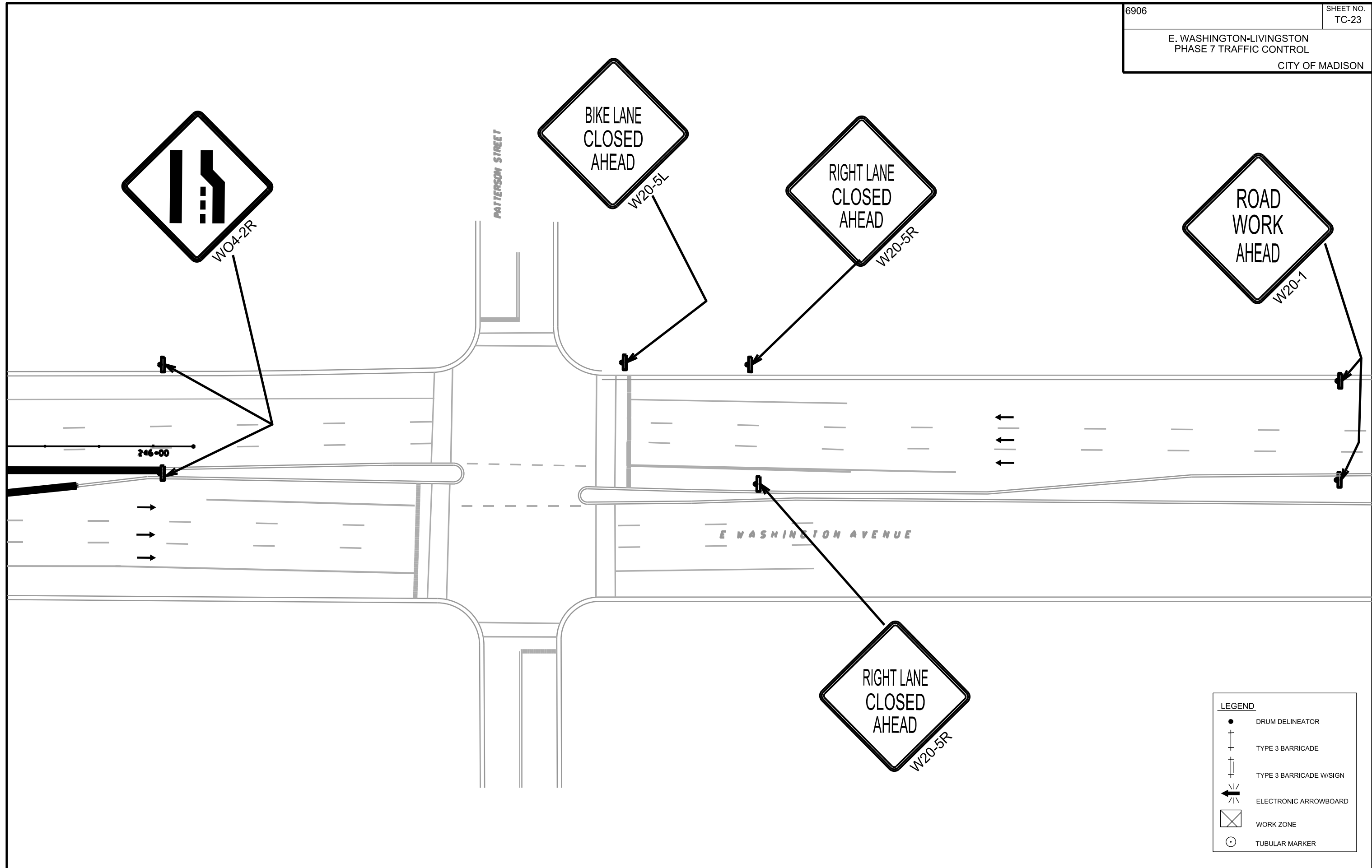
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



MAINTAIN ACCESS TO  
BOTH GAS STATION  
DRIVEWAYS AT  
ALL TIMES



PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



**LEGEND**

	DRUM DELINEATOR
	TYPE 3 BARRICADE
	TYPE 3 BARRICADE W/SIGN
	ELECTRONIC ARROWBOARD
	WORK ZONE
	TUBULAR MARKER

NOTE: ALL LANE WIDTHS MEASURED TO FACE OF CURB

6906

SHEET NO.  
M-1

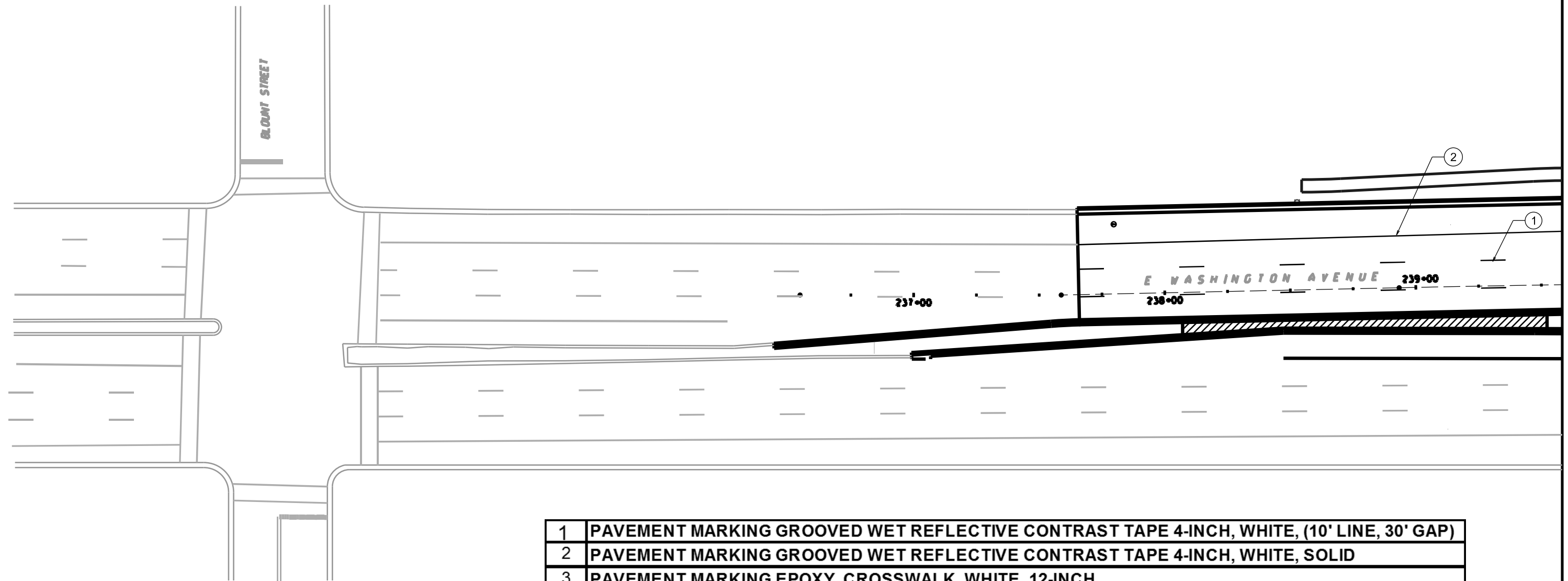
E. WASHINGTON-LIVINGSTON  
PAVEMENT MARKING PLAN  
53W1409 CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

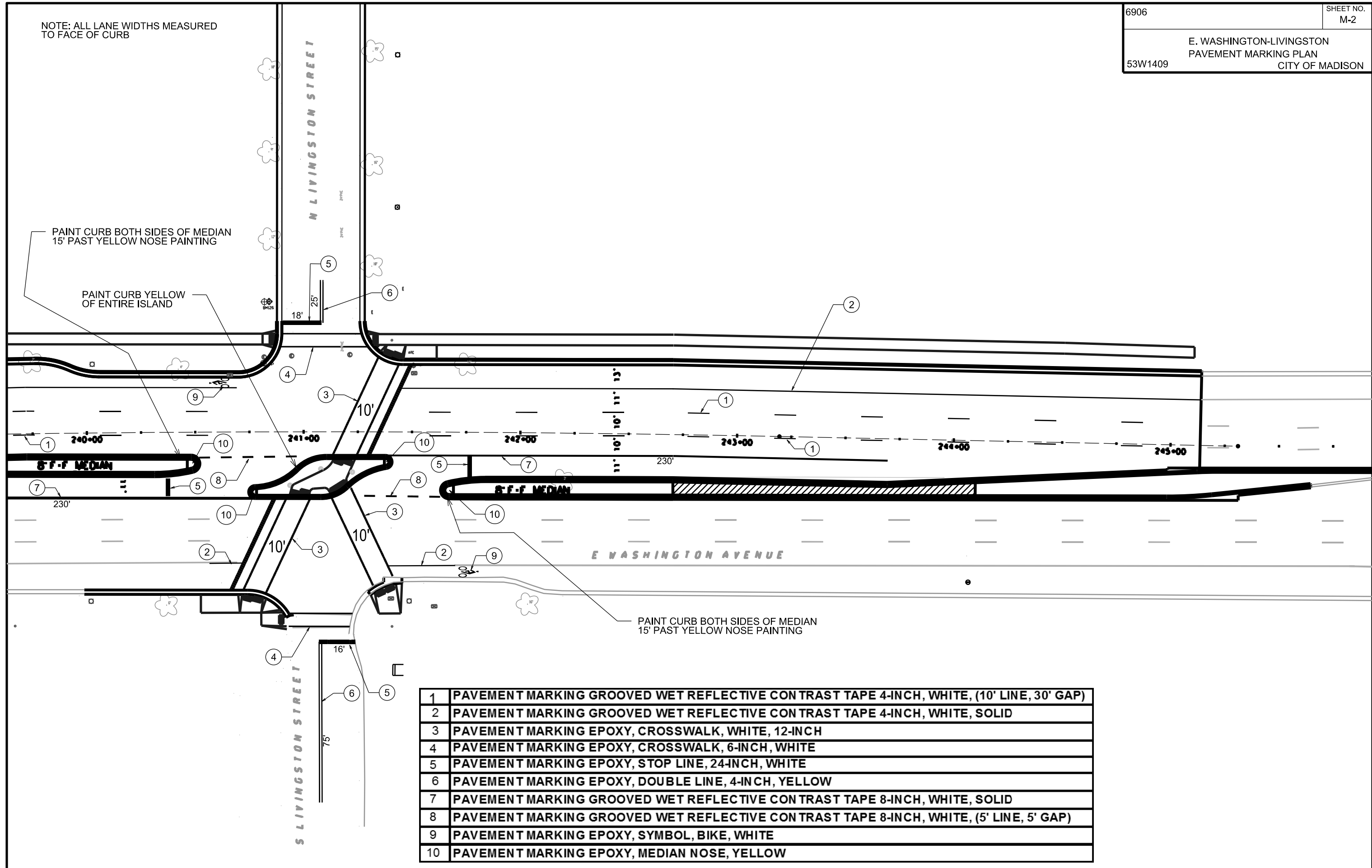
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



1	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, WHITE, (10' LINE, 30' GAP)
2	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, WHITE, SOLID
3	PAVEMENT MARKING EPOXY, CROSSWALK, WHITE, 12-INCH
4	PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH, WHITE
5	PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH, WHITE
6	PAVEMENT MARKING EPOXY, DOUBLE LINE, 4-INCH, YELLOW
7	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH, WHITE, SOLID
8	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH, WHITE, (5' LINE, 5' GAP)
9	PAVEMENT MARKING EPOXY, SYMBOL, BIKE, WHITE
10	PAVEMENT MARKING EPOXY, MEDIAN NOSE, YELLOW

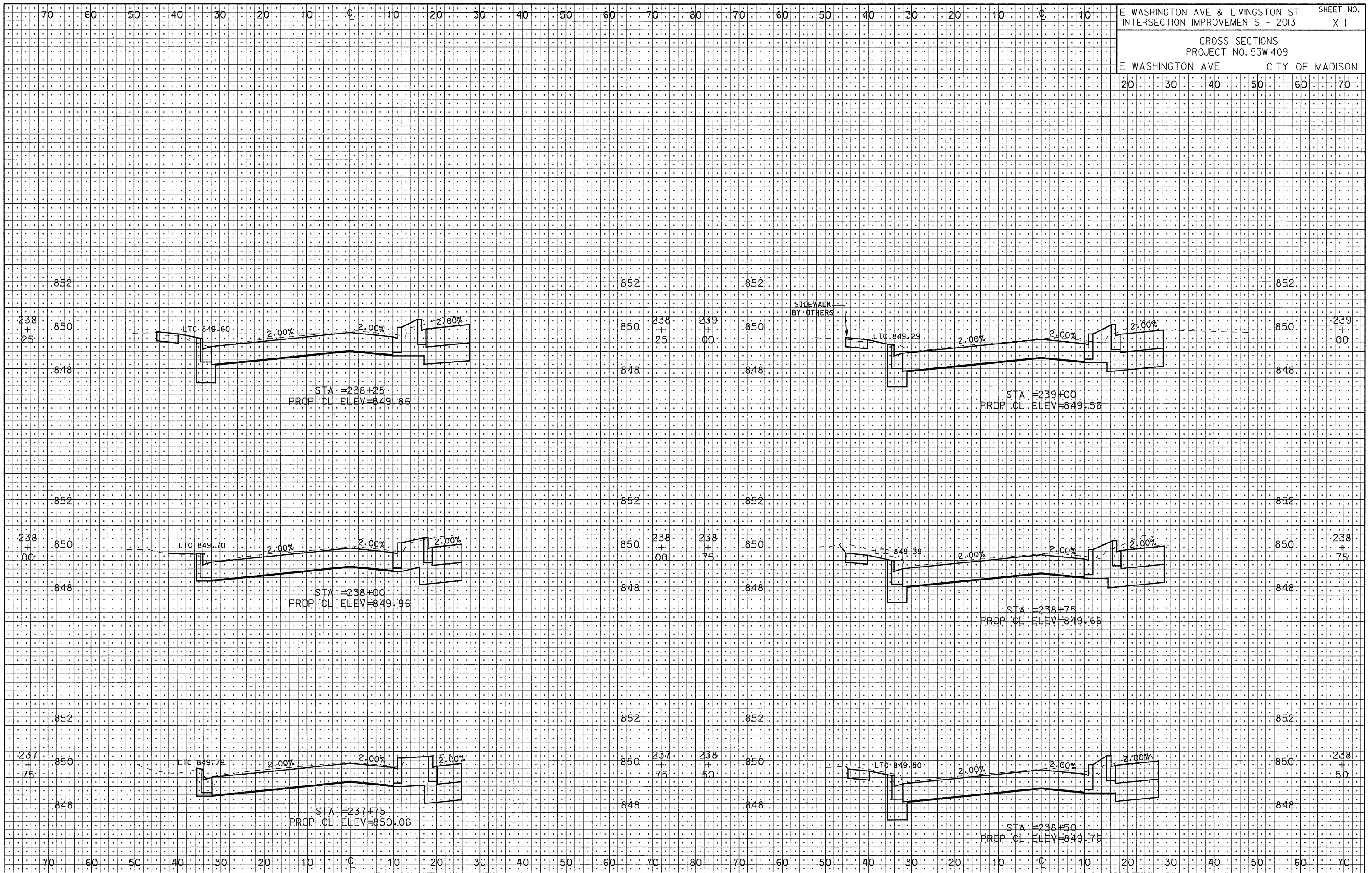
NOTE: ALL LANE WIDTHS MEASURED TO FACE OF CURB

PLOT SCALE:  
 PLOT NAME:  
 REV. DATE:  
 ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



1	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH, WHITE, (10' LINE, 30' GAP)
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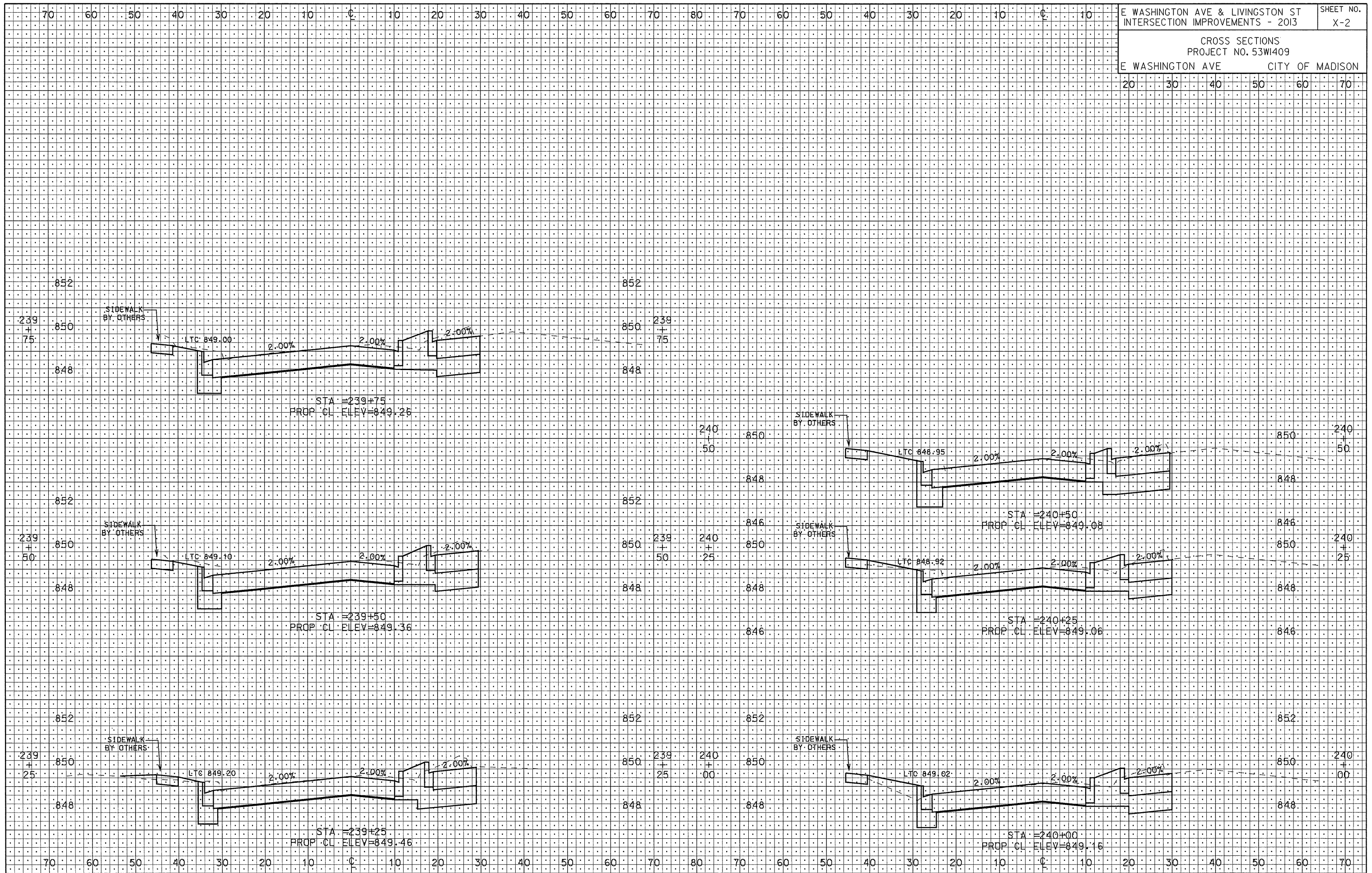
CROSS SECTIONS  
PROJECT NO. 53WI409  
E WASHINGTON AVE CITY OF MADISON



PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

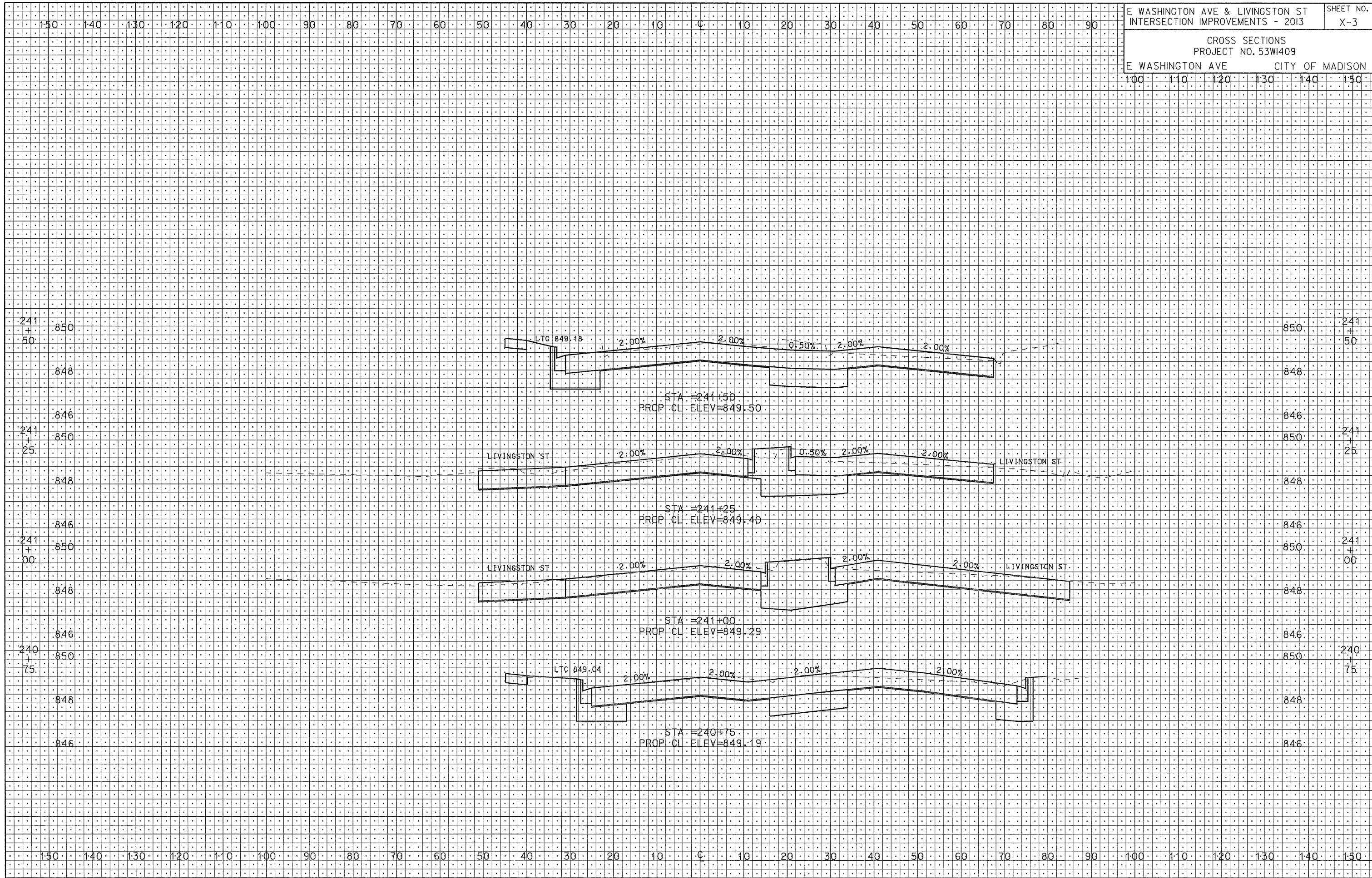
CROSS SECTIONS  
PROJECT NO. 53WI409  
E WASHINGTON AVE CITY OF MADISON



PLOT SCALE: 1" = 10'  
REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS  
 PROJECT NO. 53W1409  
 E WASHINGTON AVE CITY OF MADISON



PLOT SCALE: .....  
 PLOT NAME: .....  
 REV. DATE: .....

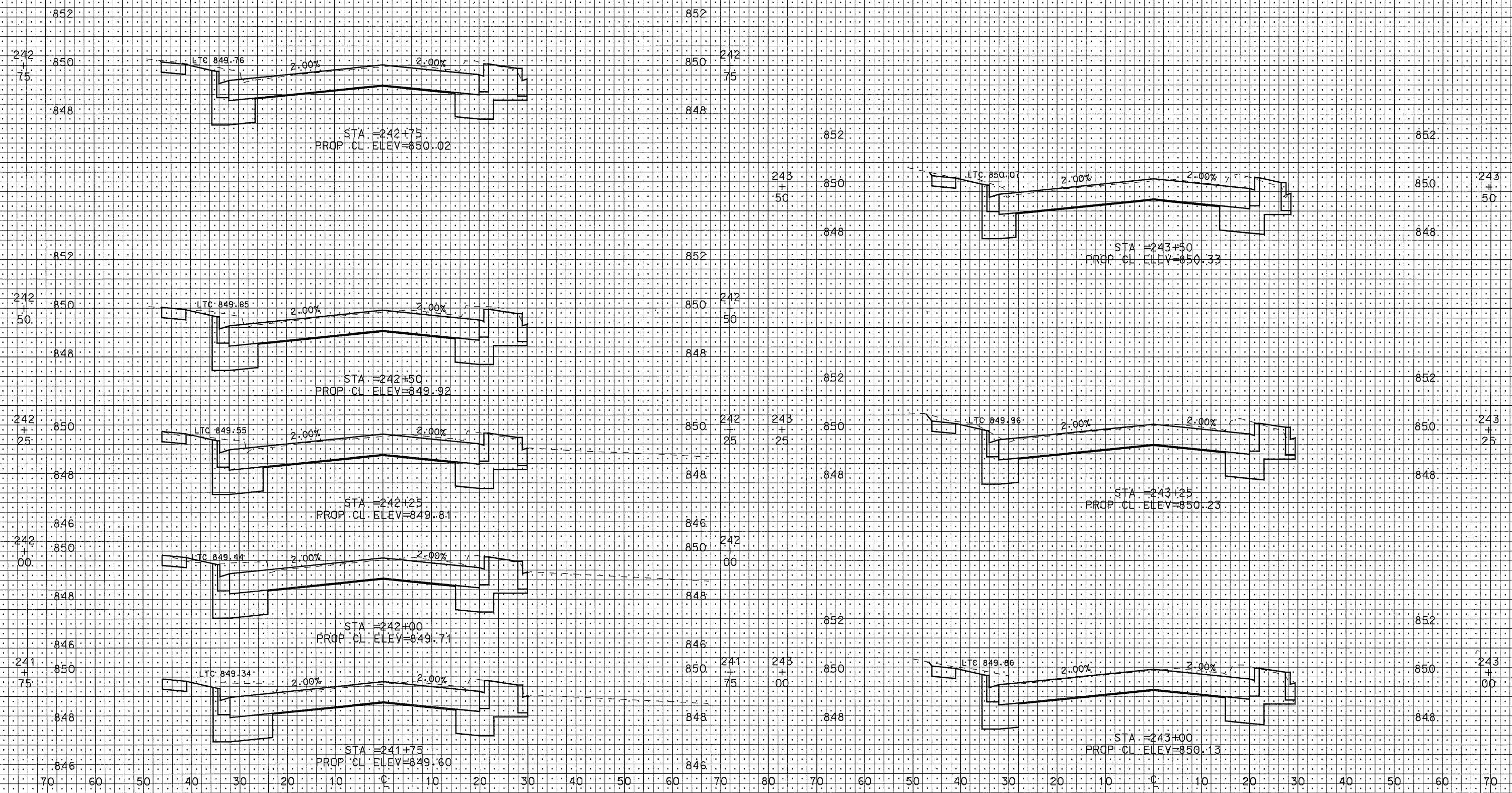
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS  
PROJECT NO. 53W1409  
E WASHINGTON AVE CITY OF MADISON

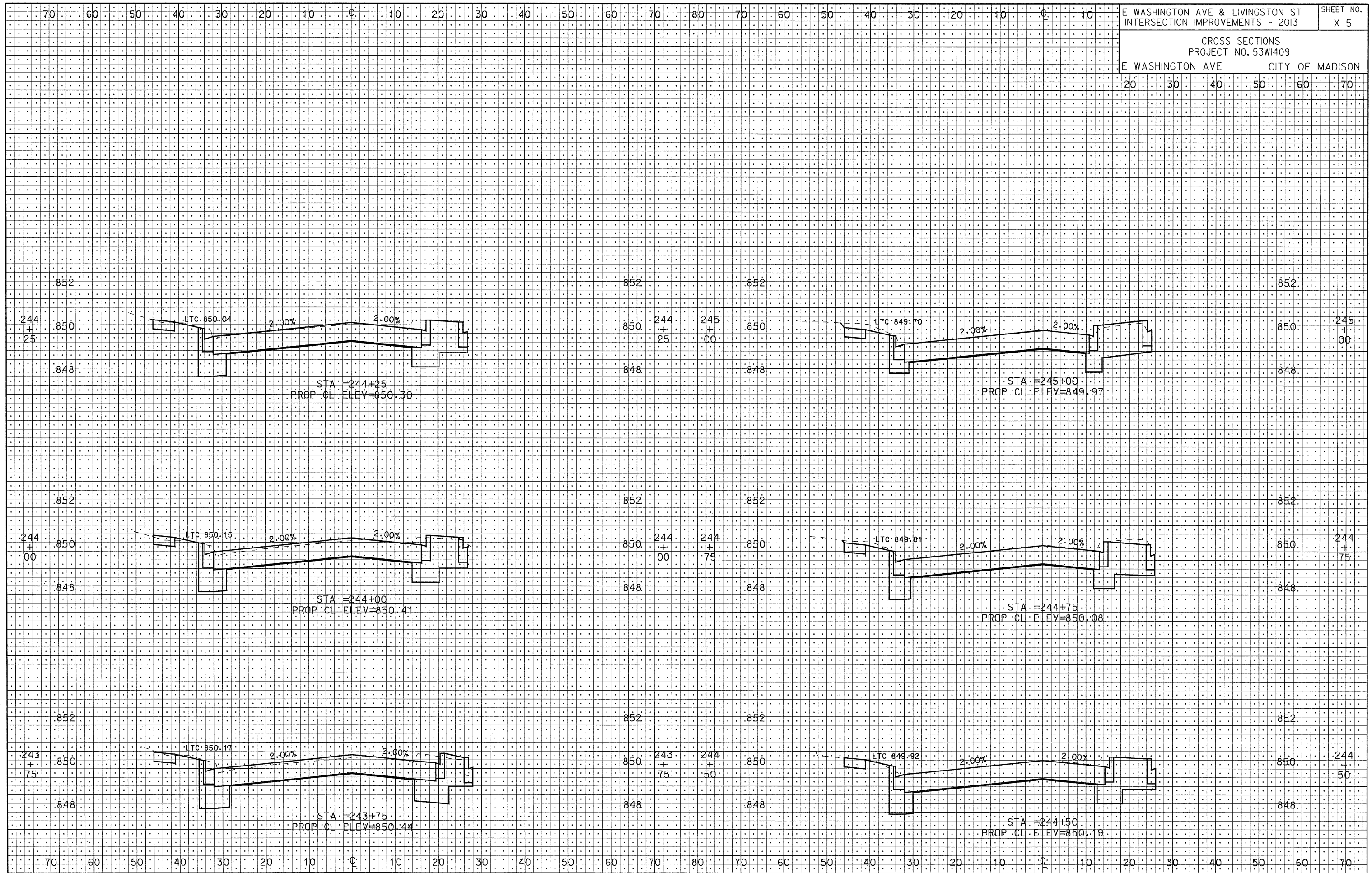
PLOT SCALE:

PLOT NAME:

REV. DATE:



ORIGINATOR: CITY OF MADISON, SIBBEIS DIVISION



E WASHINGTON AVE & LIVINGSTON ST  
 INTERSECTION IMPROVEMENTS - 2013

CROSS SECTIONS  
 PROJECT NO. 53WI409

E WASHINGTON AVE CITY OF MADISON

SHEET NO.  
 X-5

PLOT SCALE: \_\_\_\_\_  
 PLOT NAME: \_\_\_\_\_  
 REV. DATE: \_\_\_\_\_  
 ORIGINATOR: CITY OF MADISON, STREETS DIVISION