

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

## PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

JANUARY 17, 2017

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

*[Signature]* 2/13/17  
City Engineer Date

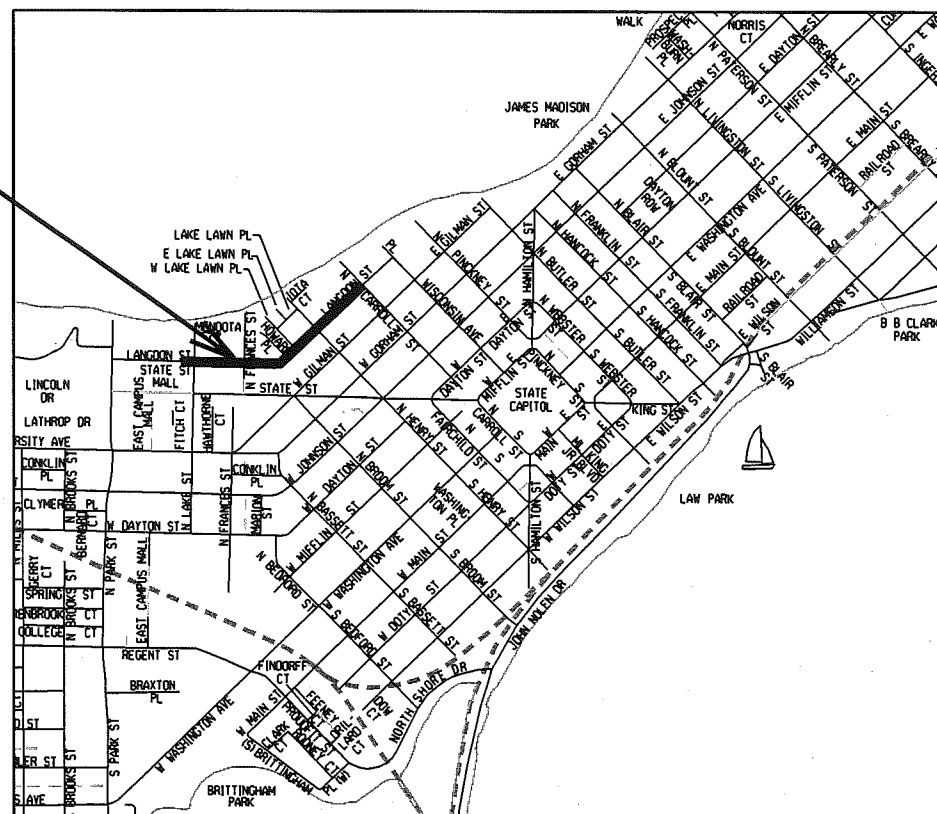
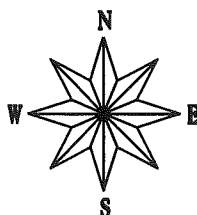
INDEX OF SHEETS

SHEET NO.	TITLE
1	NOTES & DETAILS
DI	EROSION CONTROL PLANS
EC1-EC5	STREET PLAN & PROFILES
P1-P5	SEWERS PLAN & PROFILES
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X1-X9	

## LANGDON STREET RESURFACING ASSESSMENT DISTRICT - 2017

CITY PROJECT NO. 11103  
CONTRACT NO. 7837

PROJECT  
LOCATION



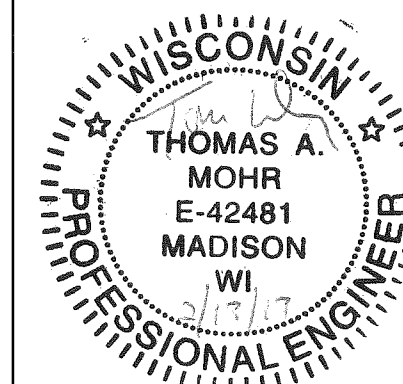
CONVENTIONAL SIGNS

FIELD VERIFY ALL UTILITY LOCATIONS

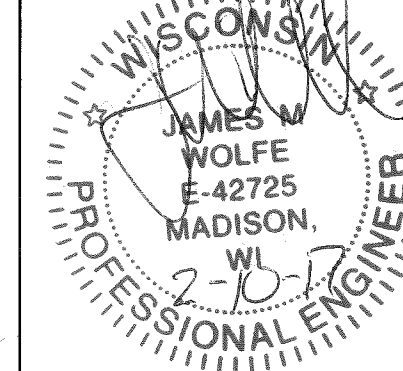
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
BURIED ELECTRIC	— E —
LIGHT POLE	

EARTH WORK SUMMARY:  
EXCAVATION CUT (MEASURED PLAN QUANTITY).....0 C.Y.  
ESTIMATED UNDISTRIBUTED UNDERCUT.....700 C.Y.  
TOTAL UNCLASSIFIED EXCAVATION CUT.....700 C.Y.

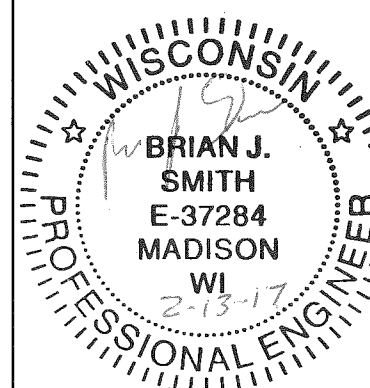
PAVEMENT MARKINGS  
DESIGNED BY:



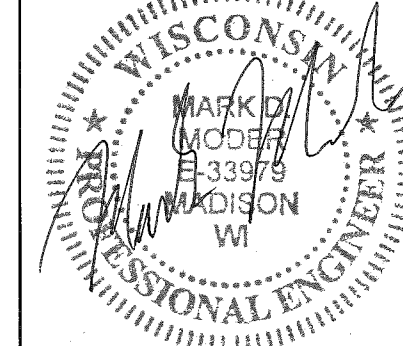
STREET  
DESIGNED BY:



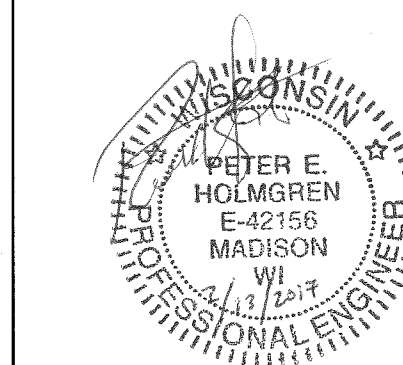
LIGHTING  
DESIGNED BY:



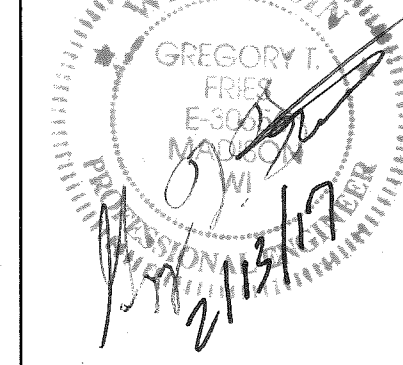
SANITARY SEWER  
DESIGNED BY:



WATER  
DESIGNED BY:



STORM SEWER  
DESIGNED BY:

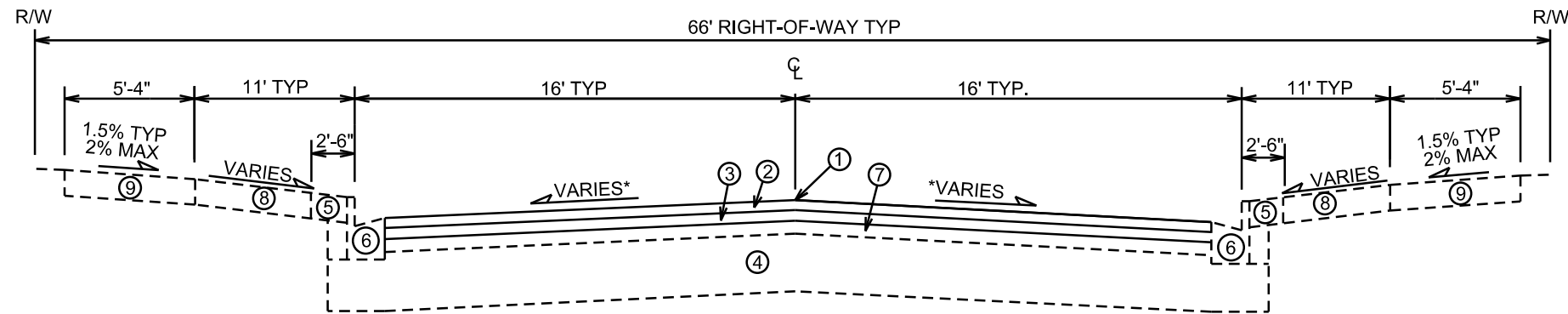


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



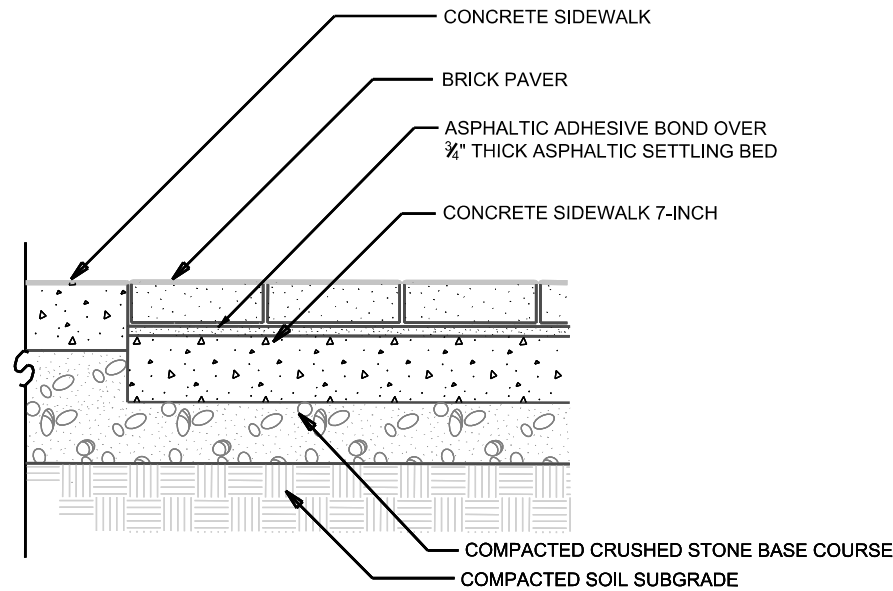
**TYPICAL FINISHED SECTION**  
LANGDON STREET  
NOT TO SCALE

- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER, TYPE E-3
- ③ 3 1/4" BITUMINOUS LOWER LAYER, TYPE E-3
- ④ 10" GRADATION 2 CRUSHED STONE, EXISTING\*\*\*
- ⑤ 7" CONCRETE SIDEWALK BAND\*\*
- ⑥ EXISTING TYPE 'A' OR 'X' CONCRETE CURB & GUTTER\*\*
- ⑦ PULVERIZE & SHAPE EXISTING ASPHALT PAVEMENT
- ⑧ EXISTING 7" C1 CONCRETE OR INSTALL TOPSOIL & SOD\*\*
- ⑨ EXISTING 5" OR 7" CONCRETE SIDEWALK\*\*

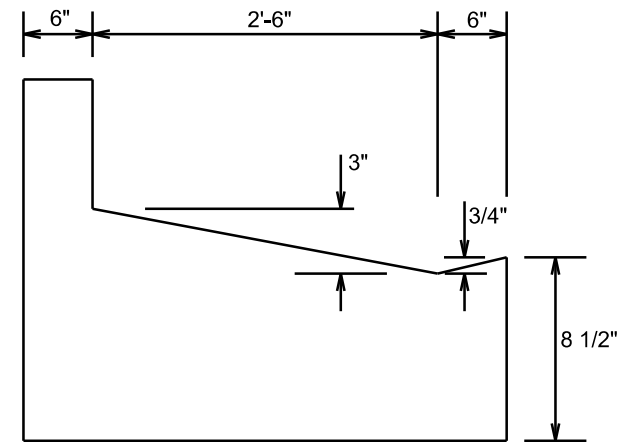
\* SEE CROSS SECTION SHEETS FOR CROSS SLOPES AND TOP OF CURB ELEVATIONS.

\*\* REPLACE CURB, SIDEWALK & DRIVE APRONS AS SHOWN ON THE PLANS OR AS DIRECTED, AND INSTALL TOPSOIL & SOD AT LOCATIONS SHOWN

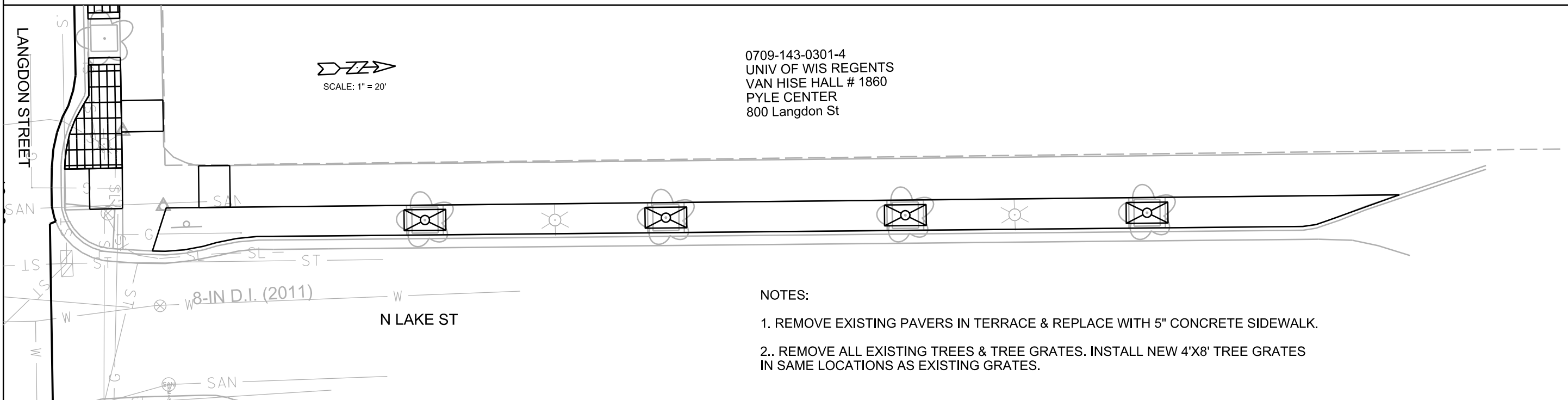
\*\*\* REPLACE BASE MATERIAL FOR UTILITY TRENCHES (TYPE IV PATCH) OR IN LOCATIONS WHERE EXCAVATION AND BASE REPLACEMENT IS REQUIRED BY ENGINEER



**PAVER DETAIL**  
NOT TO SCALE



**MODIFIED TYPE 'X' CURB**  
PAY AS TYPE 'X' CURB  
NOT TO SCALE



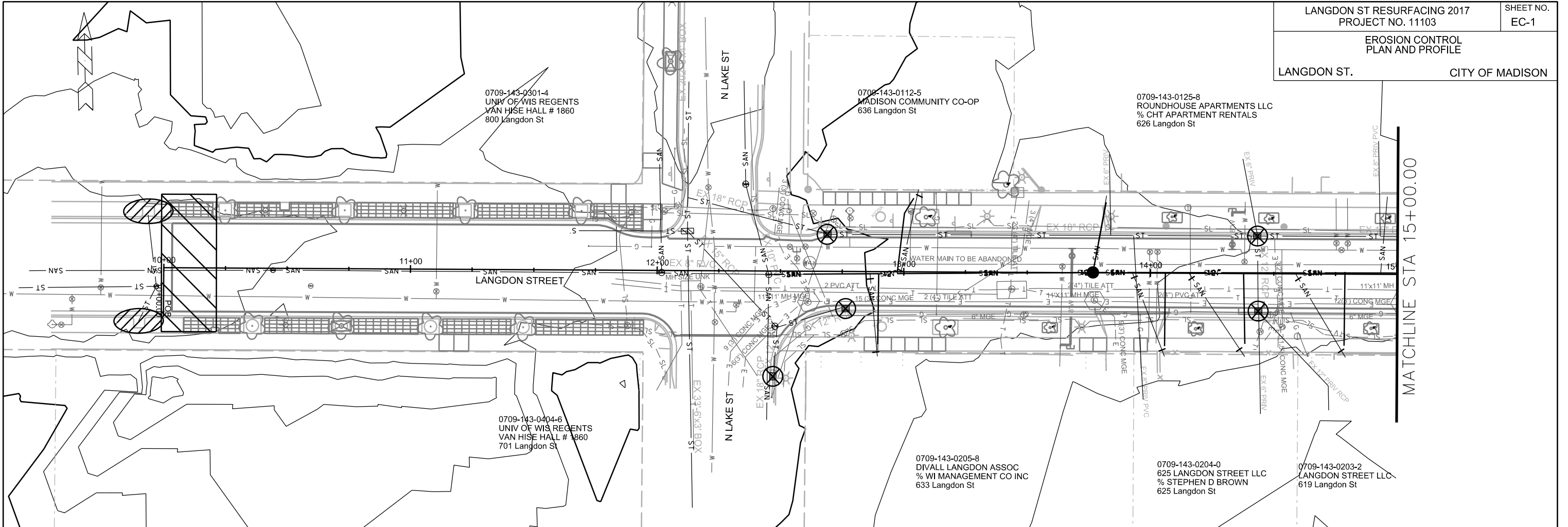
0709-143-0301-4  
UNIV OF WIS REGENTS  
VAN HISE HALL # 1860  
PYLE CENTER  
800 Langdon St

**NOTES:**

1. REMOVE EXISTING PAVERS IN TERRACE & REPLACE WITH 5" CONCRETE SIDEWALK.
2. REMOVE ALL EXISTING TREES & TREE GRATES. INSTALL NEW 4'X8' TREE GRATES IN SAME LOCATIONS AS EXISTING GRATES.

EROSION CONTROL  
PLAN AND PROFILE

LANGDON ST. CITY OF MADISON



MATCHLINE STA 15+00.00

- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- TYPE D HYBRID INLET PROTECTION
- TYPE C INLET PROTECTION
- SILT SOCK (VELOCITY CHECK)
- STREET CONSTRUCTION STONE BERM

**EROSION CONTROL NOTES:**

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

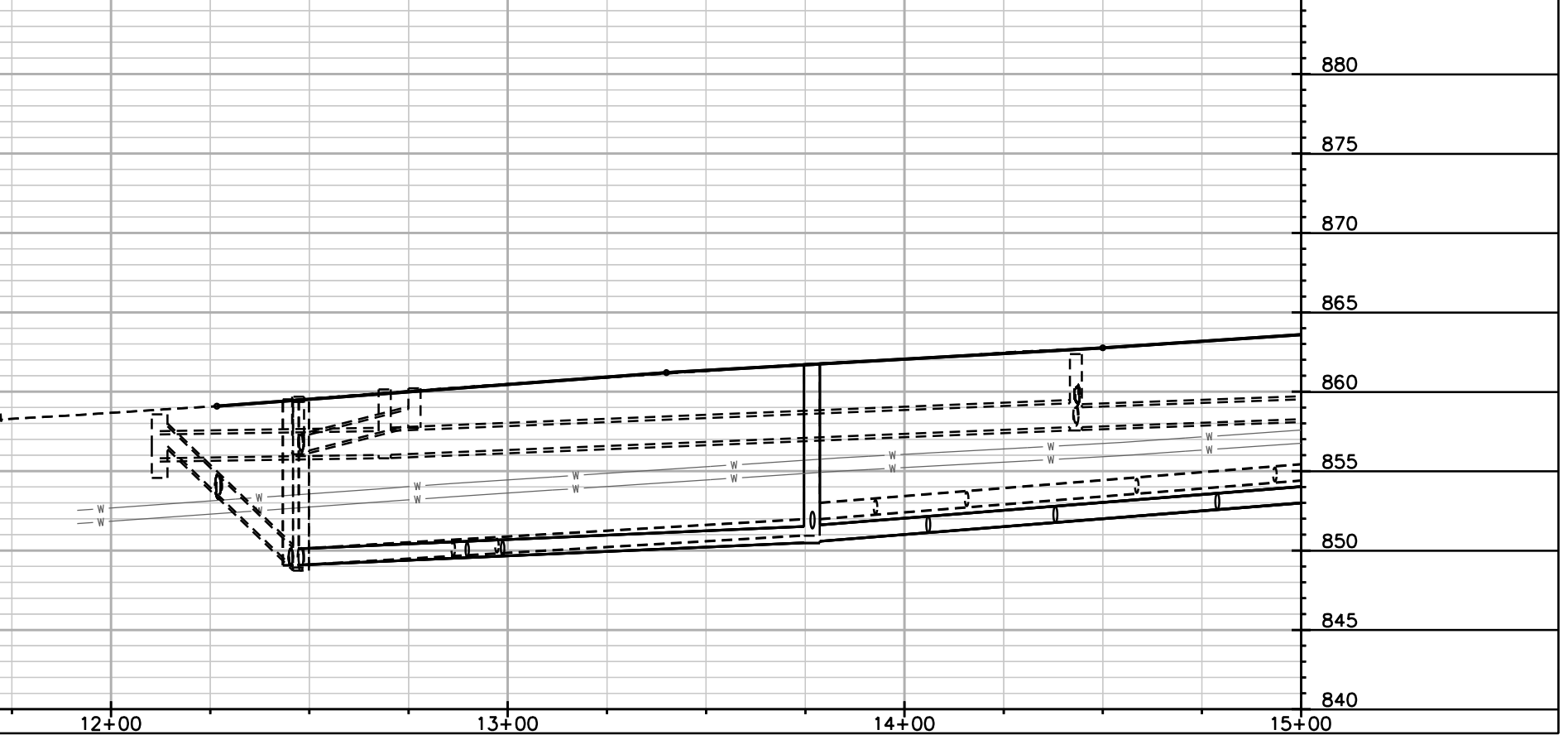
THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDMRSOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.



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

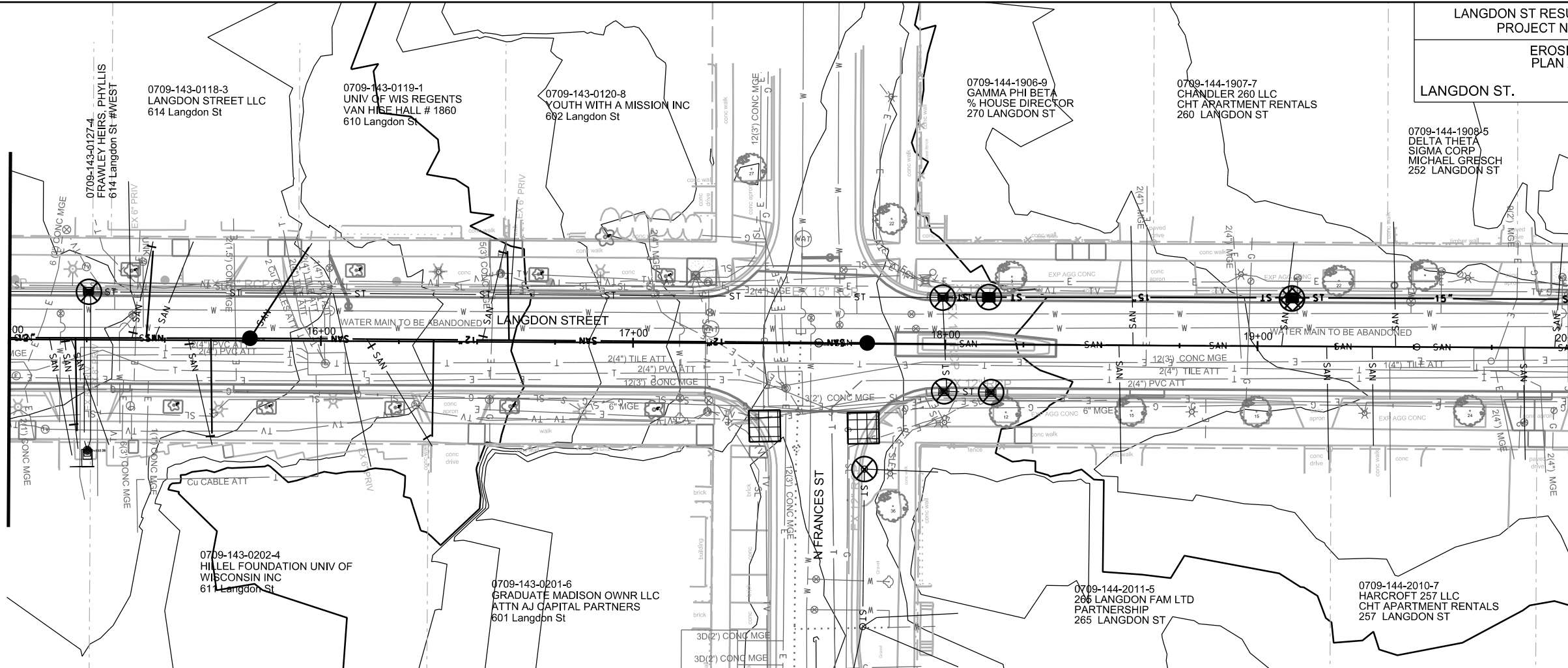
PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EROSION CONTROL  
PLAN AND PROFILE

LANGDON ST. CITY OF MADISON



**EROSION CONTROL NOTES:**

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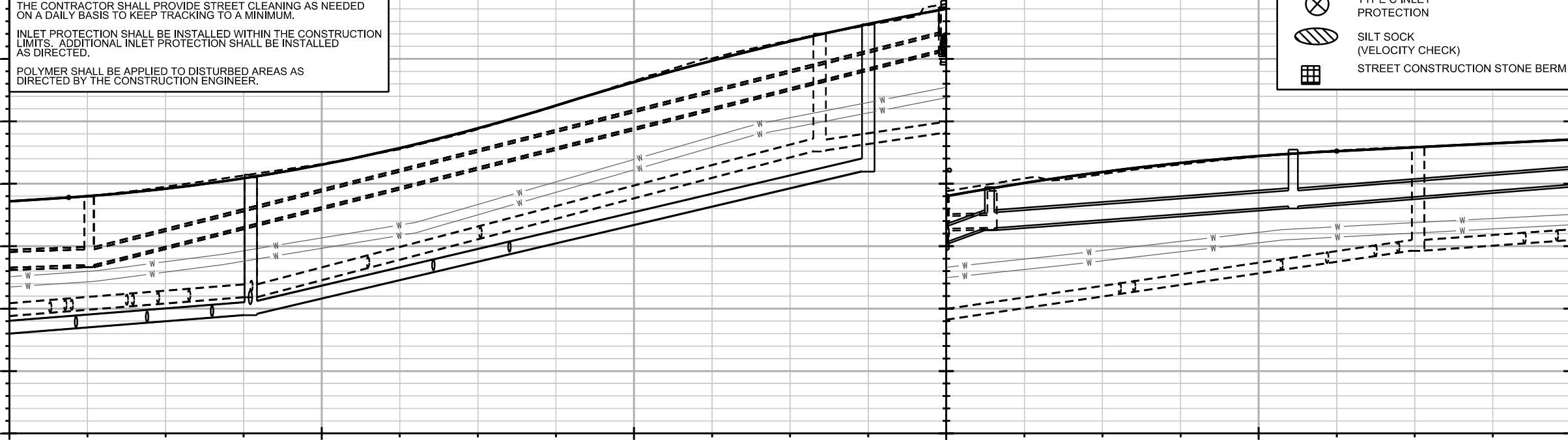
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-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  TYPE D HYBRID INLET PROTECTION
-  TYPE C INLET PROTECTION
-  SILT SOCK (VELOCITY CHECK)
-  STREET CONSTRUCTION STONE BERM

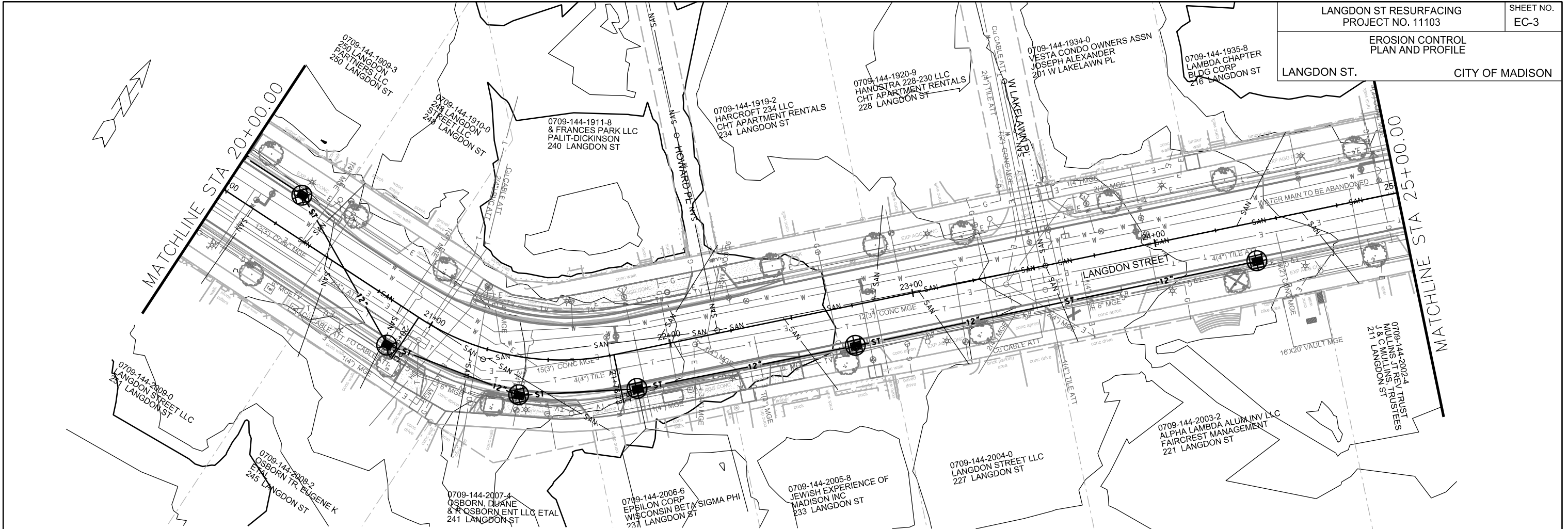


PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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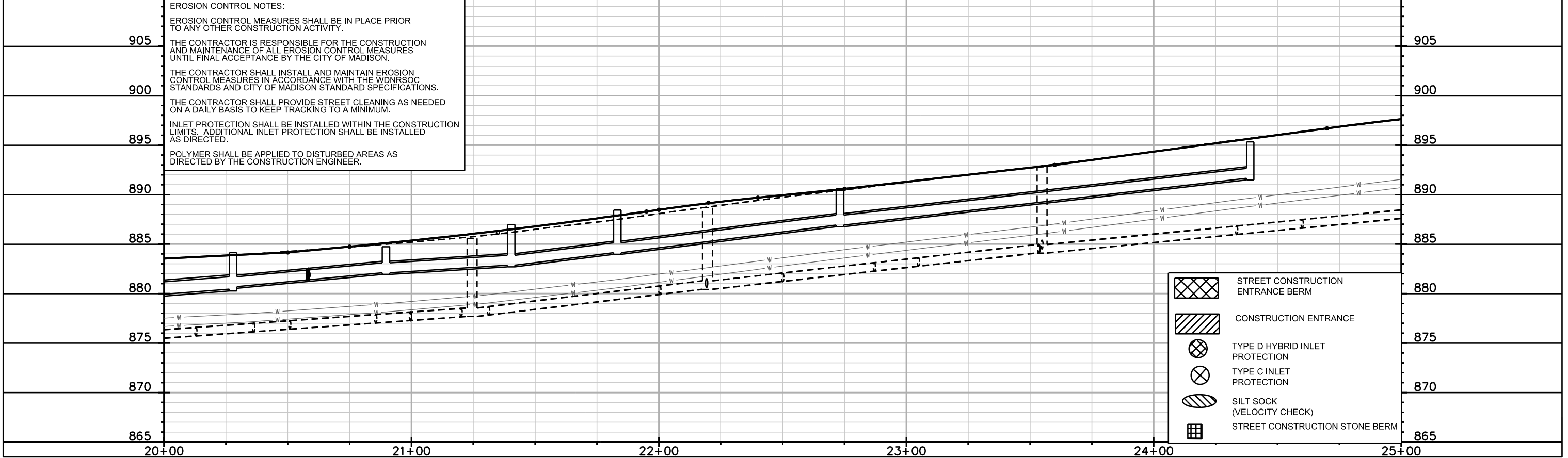
905 THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

900 THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDRSOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

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895 INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

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- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- TYPE D HYBRID INLET PROTECTION
- TYPE C INLET PROTECTION
- SILT SOCK (VELOCITY CHECK)
- STREET CONSTRUCTION STONE BERM

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

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

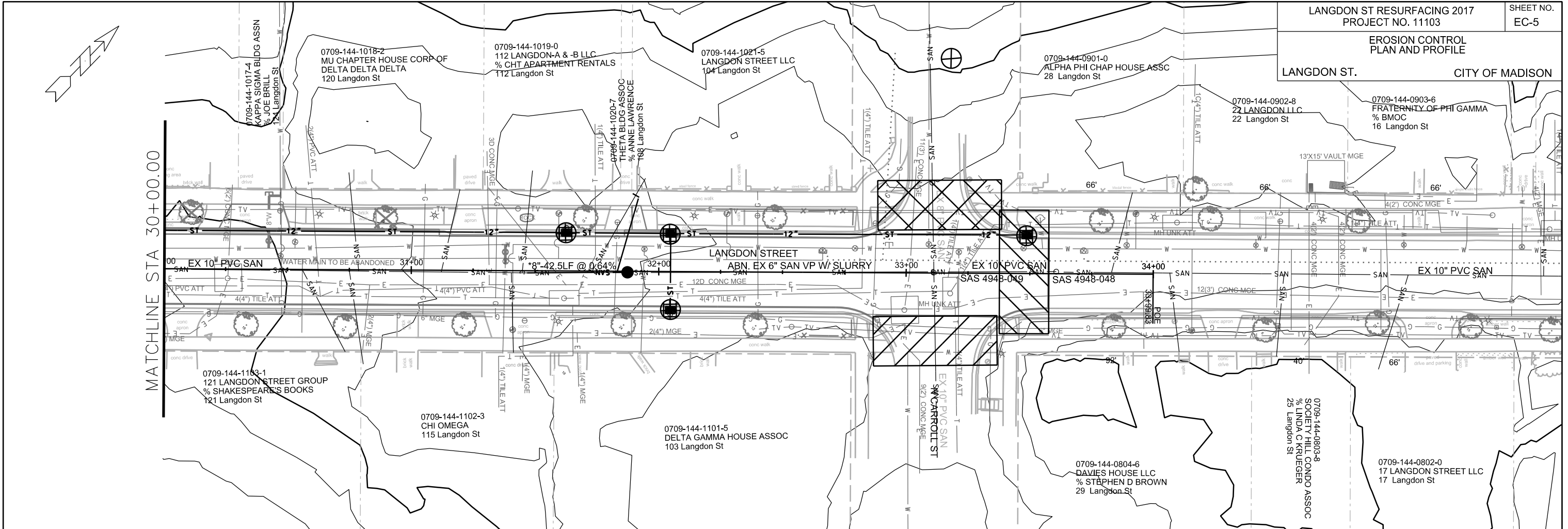
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION









EROSION CONTROL  
PLAN AND PROFILE

LANGDON ST. CITY OF MADISON



MATCHLINE STA 30+00.00

-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
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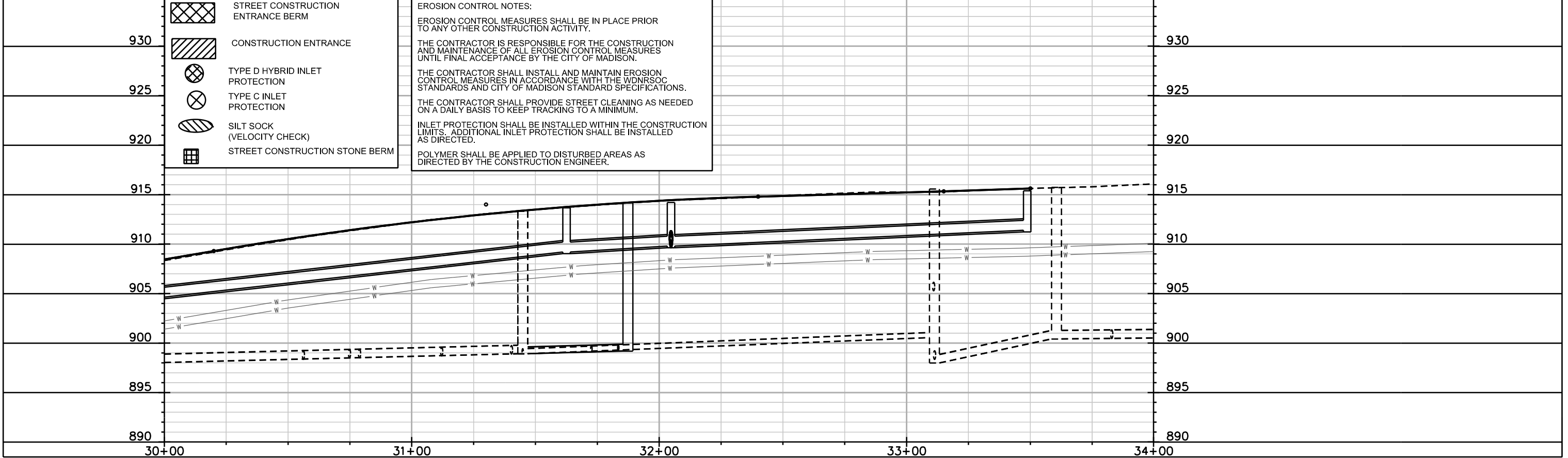
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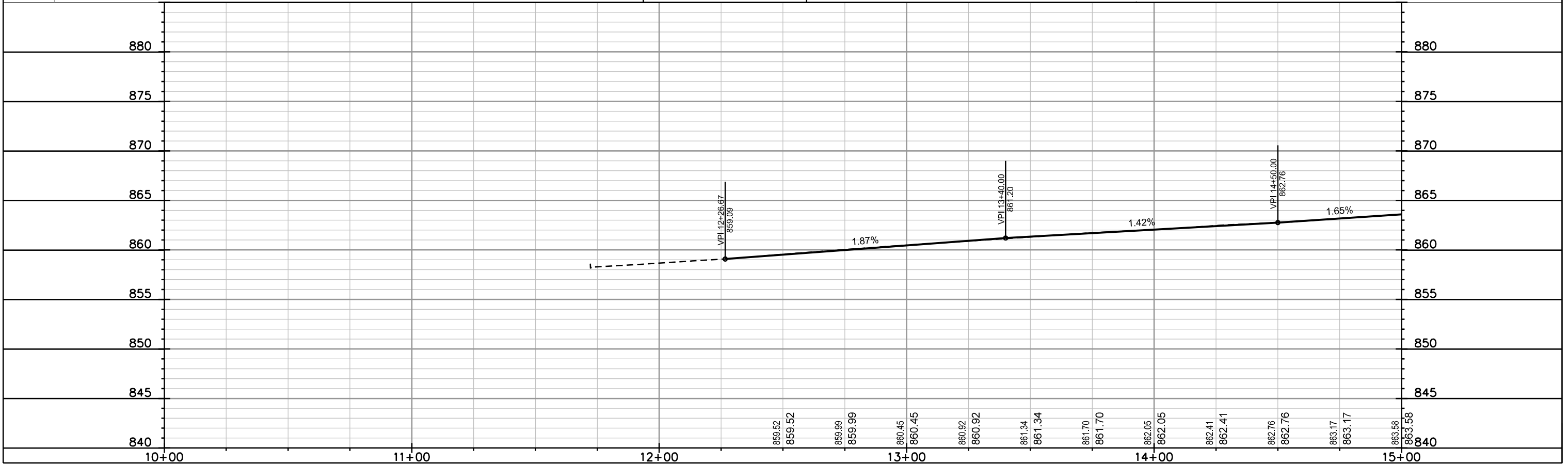
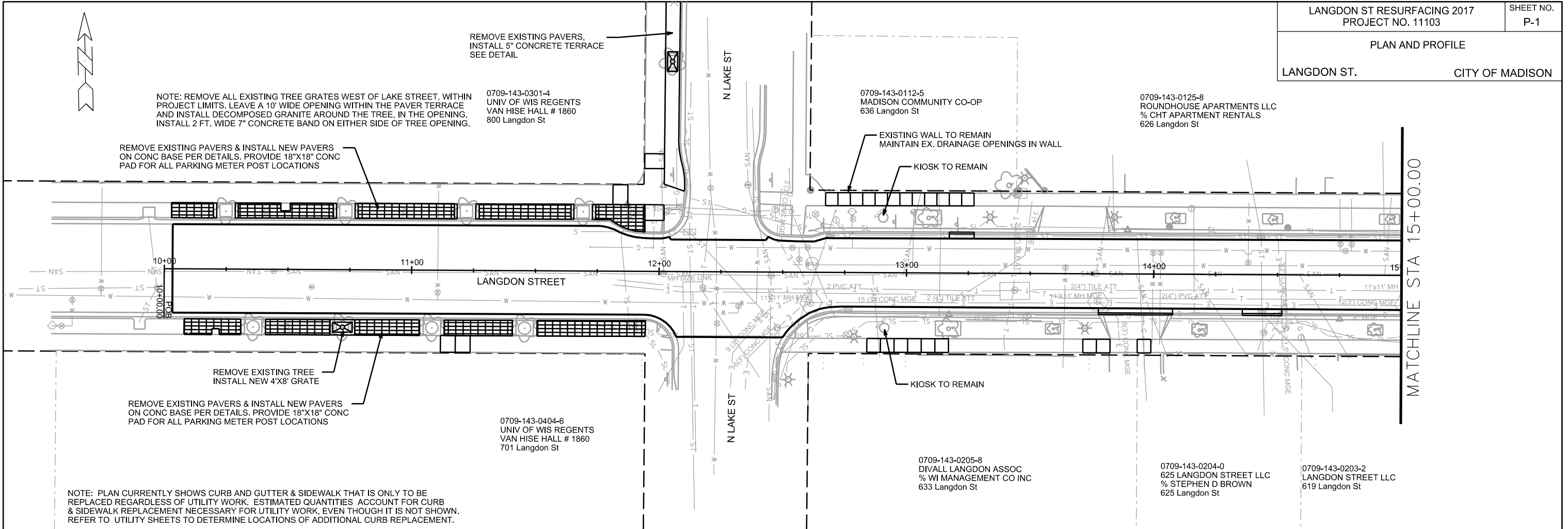
PLOT NAME: \_\_\_\_\_

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

LANGDON ST. CITY OF MADISON



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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



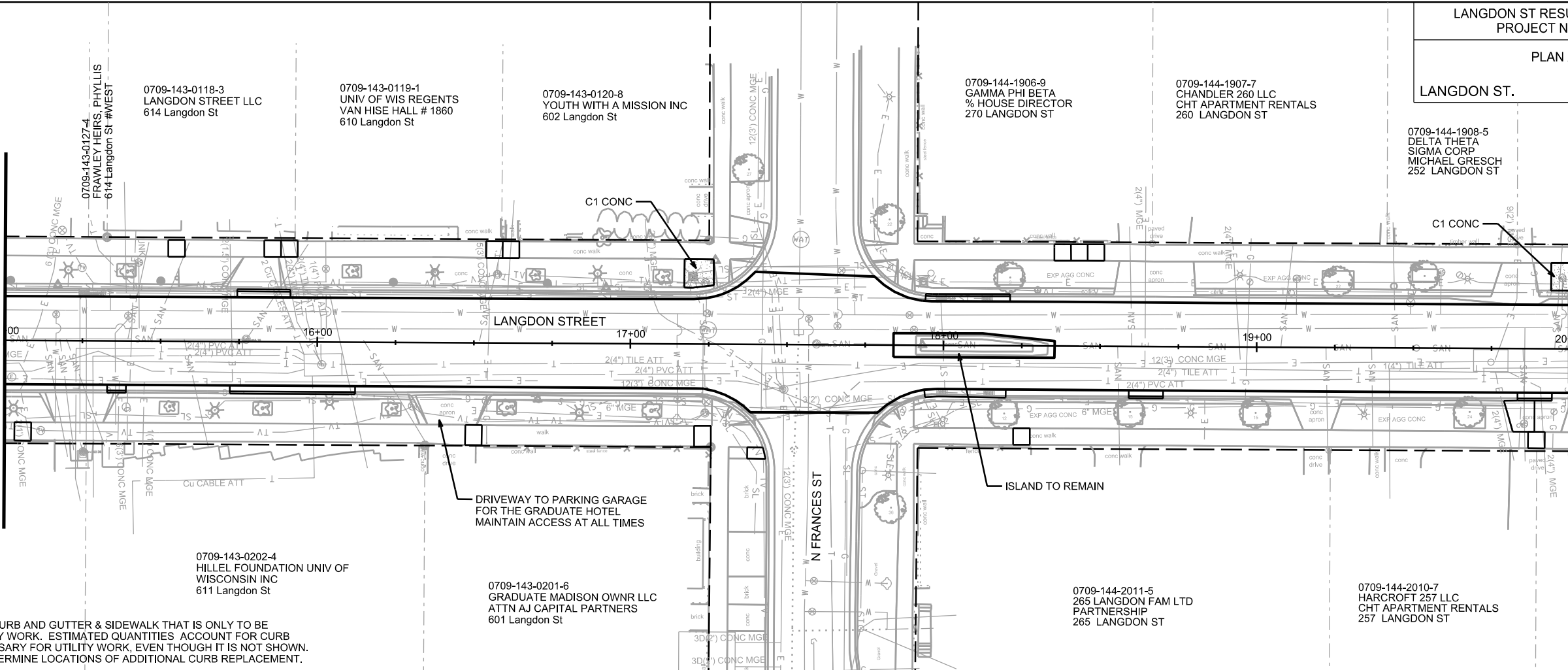
PLAN AND PROFILE

LANGDON ST. CITY OF MADISON

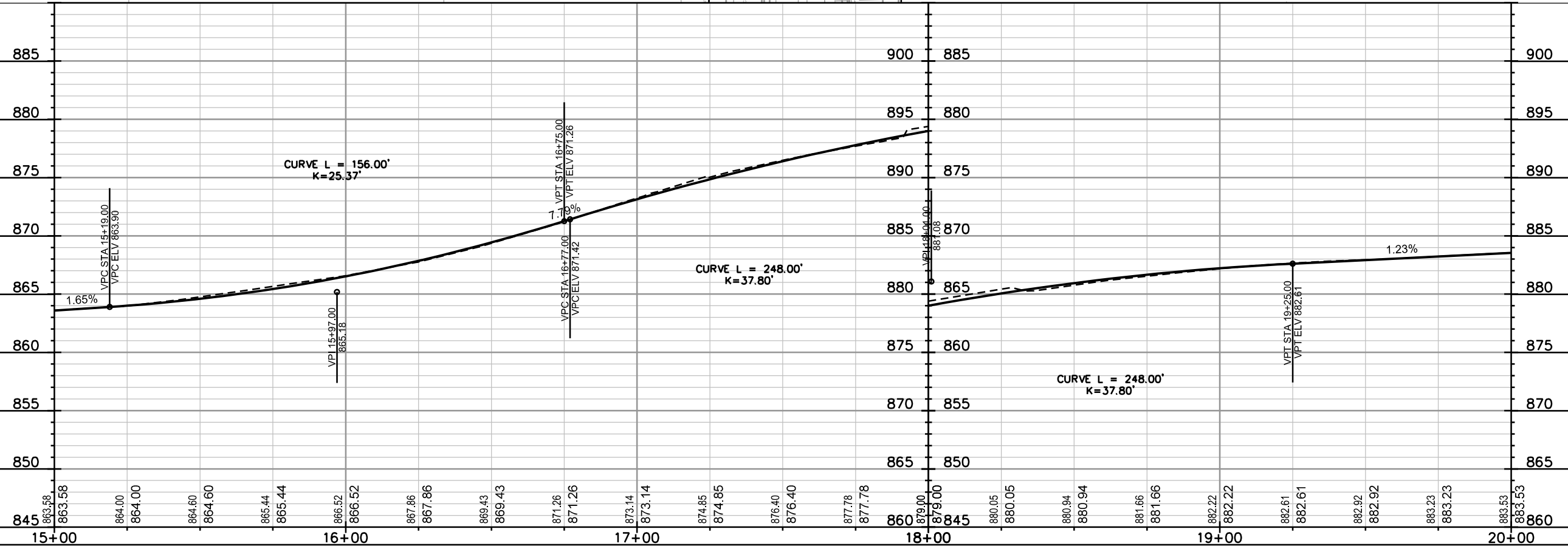


MATCHLINE STA 15+00.00

MATCHLINE STA 20+00.00



NOTE: PLAN CURRENTLY SHOWS CURB AND GUTTER & SIDEWALK THAT IS ONLY TO BE REPLACED REGARDLESS OF UTILITY WORK. ESTIMATED QUANTITIES ACCOUNT FOR CURB & SIDEWALK REPLACEMENT NECESSARY FOR UTILITY WORK, EVEN THOUGH IT IS NOT SHOWN. REFER TO UTILITY SHEETS TO DETERMINE LOCATIONS OF ADDITIONAL CURB REPLACEMENT.



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

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

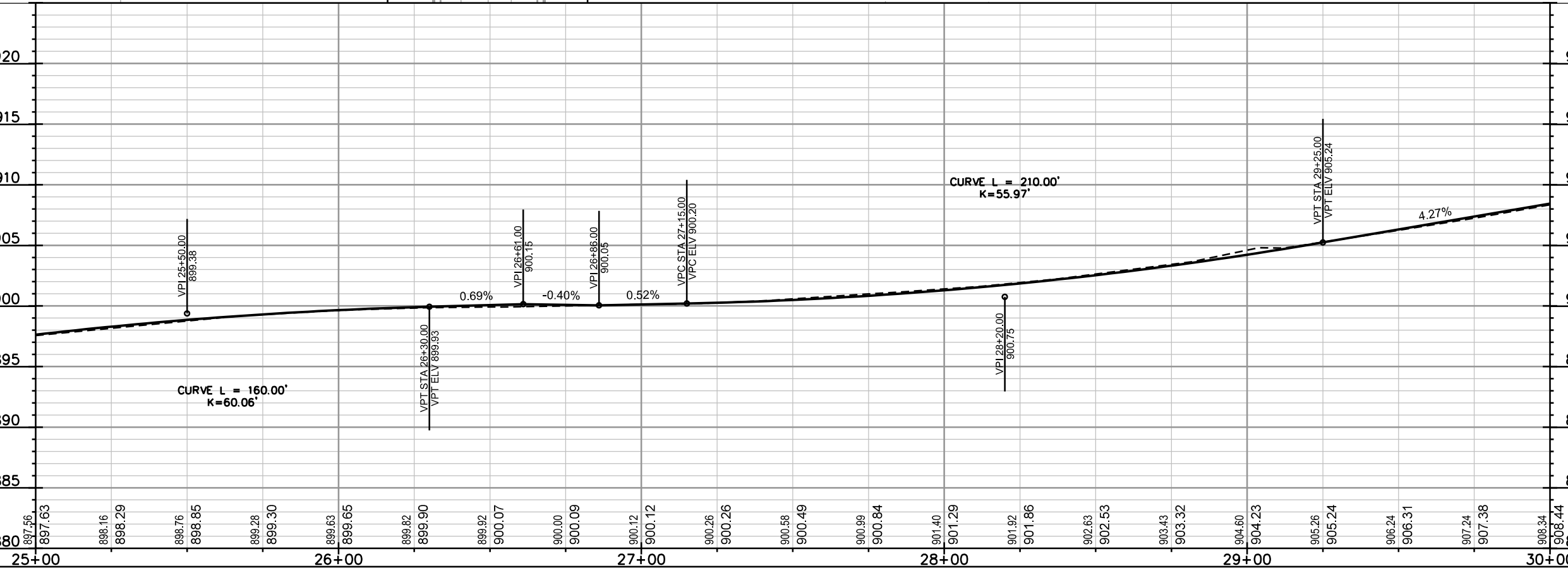
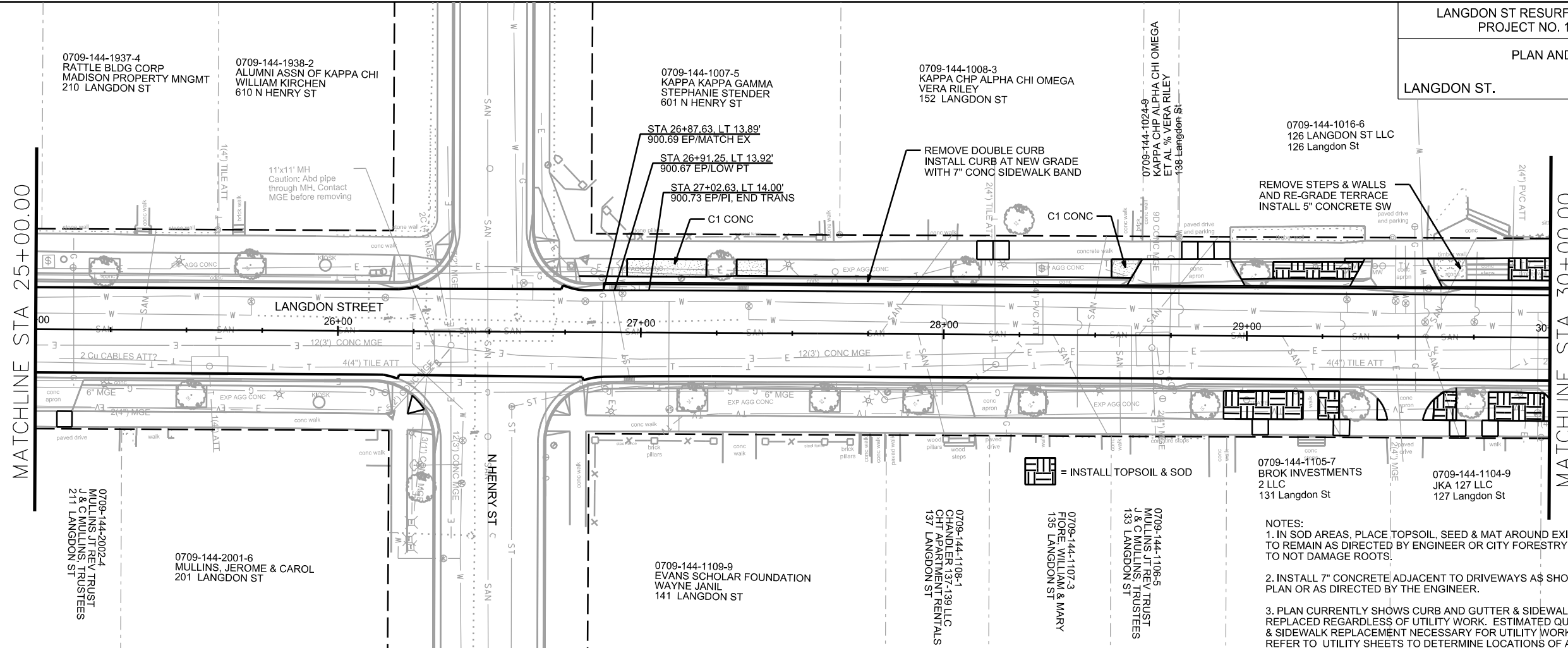
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

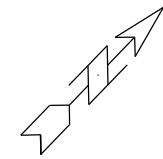


PLAN AND PROFILE

LANGDON ST. CITY OF MADISON



NOTES:  
1. IN SOD AREAS, PLACE TOPSOIL, SEED & MAT AROUND EXISTING TREES TO REMAIN AS DIRECTED BY ENGINEER OR CITY FORESTRY. TAKE CARE TO NOT DAMAGE ROOTS.  
2. INSTALL 7" CONCRETE ADJACENT TO DRIVEWAYS AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.  
3. PLAN CURRENTLY SHOWS CURB AND GUTTER & SIDEWALK THAT IS ONLY TO BE REPLACED REGARDLESS OF UTILITY WORK. ESTIMATED QUANTITIES ACCOUNT FOR CURB & SIDEWALK REPLACEMENT NECESSARY FOR UTILITY WORK, EVEN THOUGH IT IS NOT SHOWN. REFER TO UTILITY SHEETS TO DETERMINE LOCATIONS OF ADDITIONAL CURB REPLACEMENT.



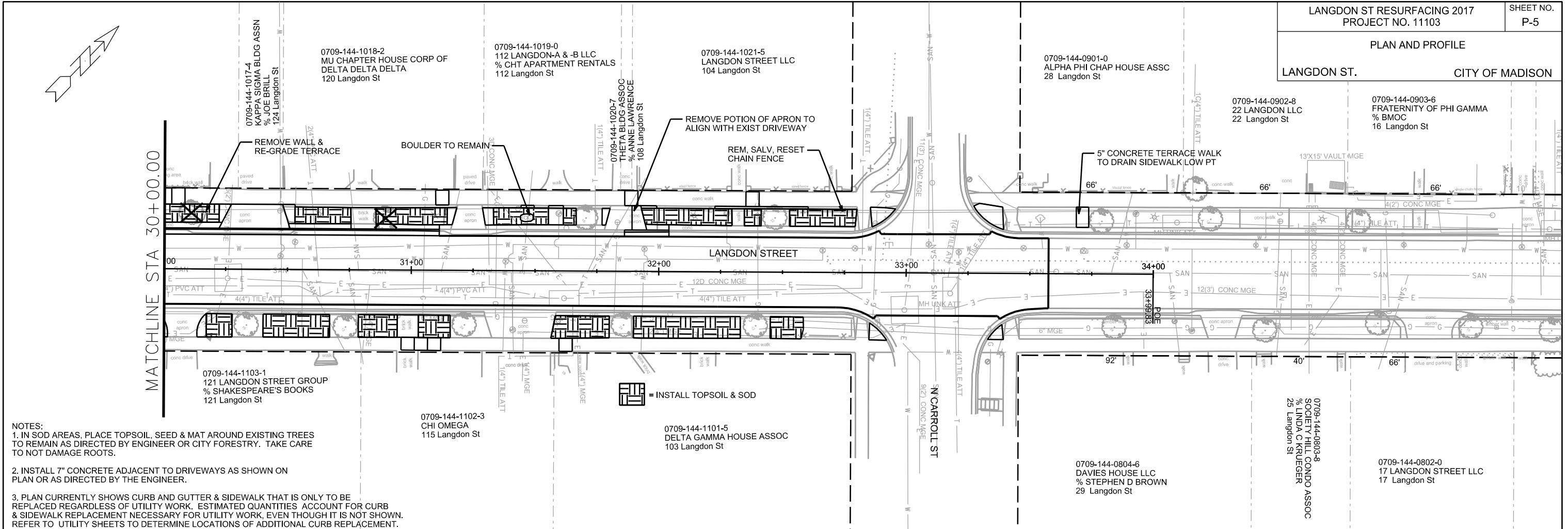
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PLOT NAME: \_\_\_\_\_

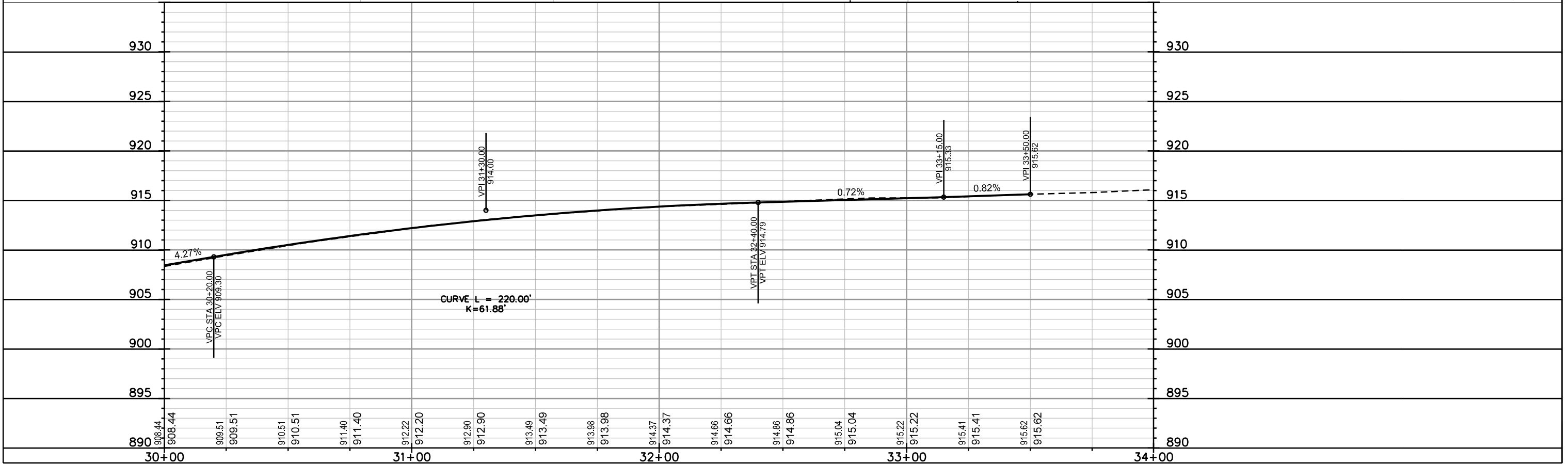
REV. DATE: \_\_\_\_\_

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PLAN AND PROFILE  
LANGDON ST. CITY OF MADISON



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

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



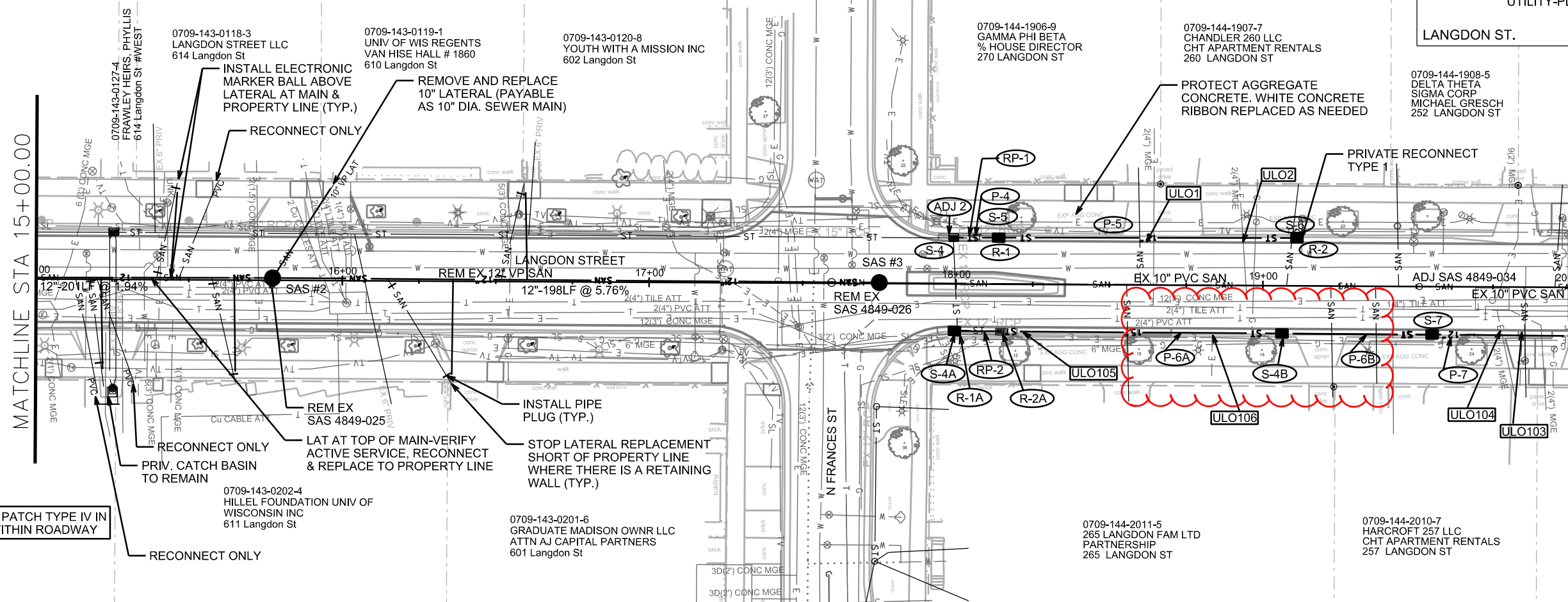
UTILITY-PLAN AND PROFILE

LANGDON ST. CITY OF MADISON

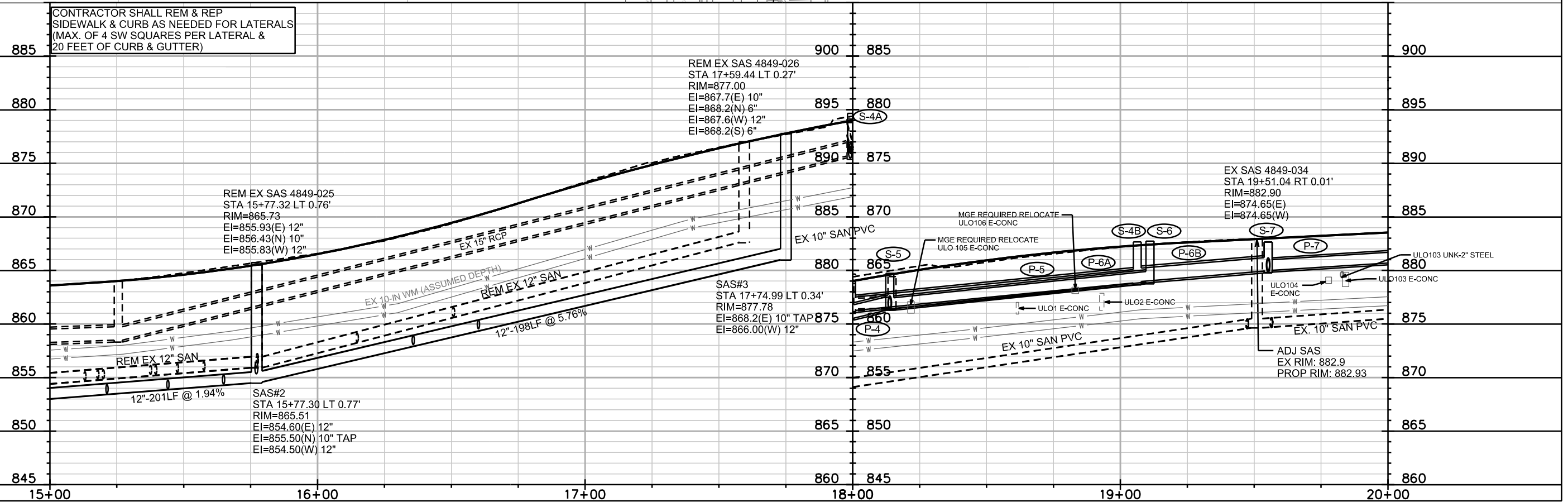
\*REV. 5/9/17-JEO  
\*\*REV. 5/25/17-JEO

MATCHLINE STA 15+00.00

MATCHLINE STA 20+00.00



INSTALL UTILITY TRENCH PATCH TYPE IV IN ALL SEWER TRENCHES WITHIN ROADWAY



CONTRACTOR SHALL REM & REP SIDEWALK & CURB AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL & 20 FEET OF CURB & GUTTER)

REM EX SAS 4849-026  
STA 17+59.44 LT 0.27'  
RIM=877.00  
EI=867.7(E) 10"  
EI=868.2(N) 6"  
EI=867.6(W) 12"  
EI=868.2(S) 6"

REM EX SAS 4849-025  
STA 15+77.32 LT 0.76'  
RIM=865.73  
EI=855.93(E) 12"  
EI=856.43(N) 10"  
EI=855.83(W) 12"

EX SAS 4849-034  
STA 19+51.04 RT 0.01'  
RIM=882.90  
EI=874.65(E)  
EI=874.65(W)

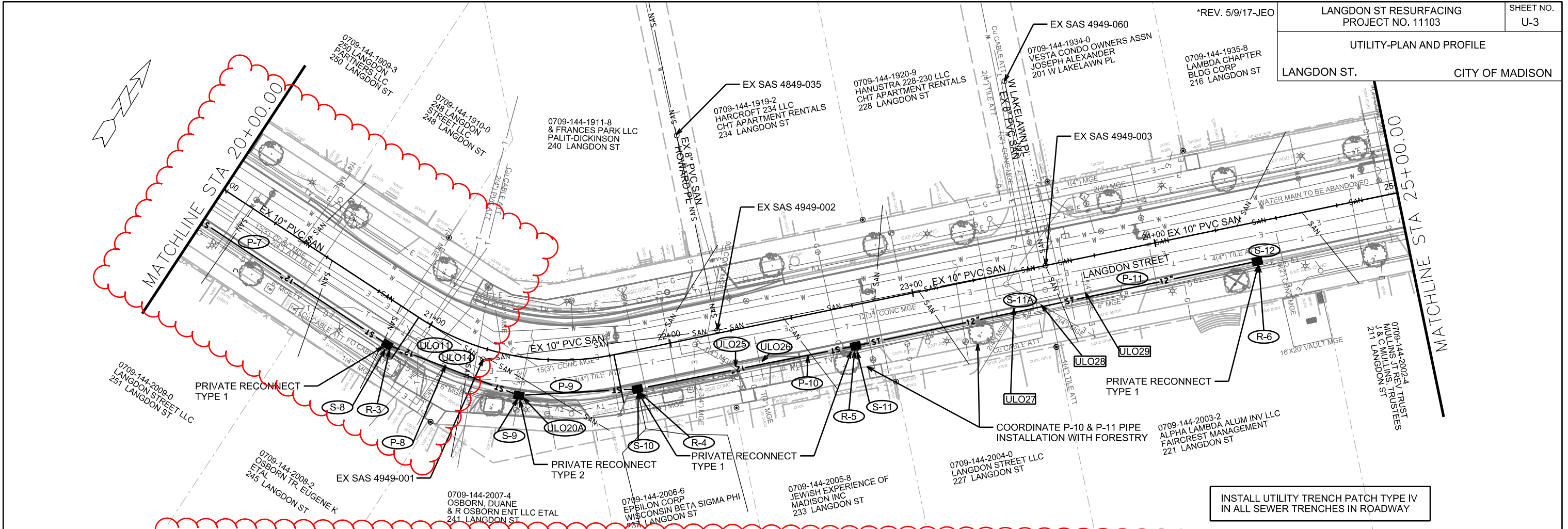
SAS#3  
STA 17+74.99 LT 0.34'  
RIM=877.78  
EI=868.2(E) 10" TAP  
EI=866.00(W) 12"

SAS#2  
STA 15+77.30 LT 0.77'  
RIM=865.51  
EI=854.60(E) 12"  
EI=855.50(N) 10" TAP  
EI=854.50(W) 12"

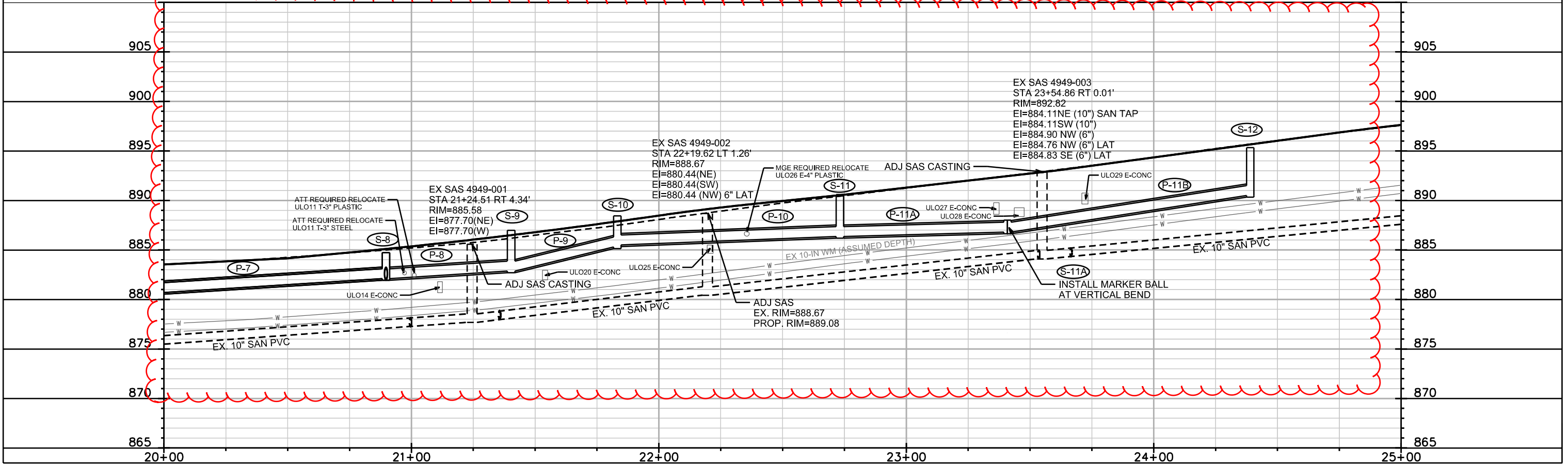
ADJ SAS  
EX RIM: 882.9  
PROP RIM: 882.93

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

\*REV. 5/9/17-JEO



INSTALL UTILITY TRENCH PATCH TYPE IV  
IN ALL SEWER TRENCHES IN ROADWAY



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

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

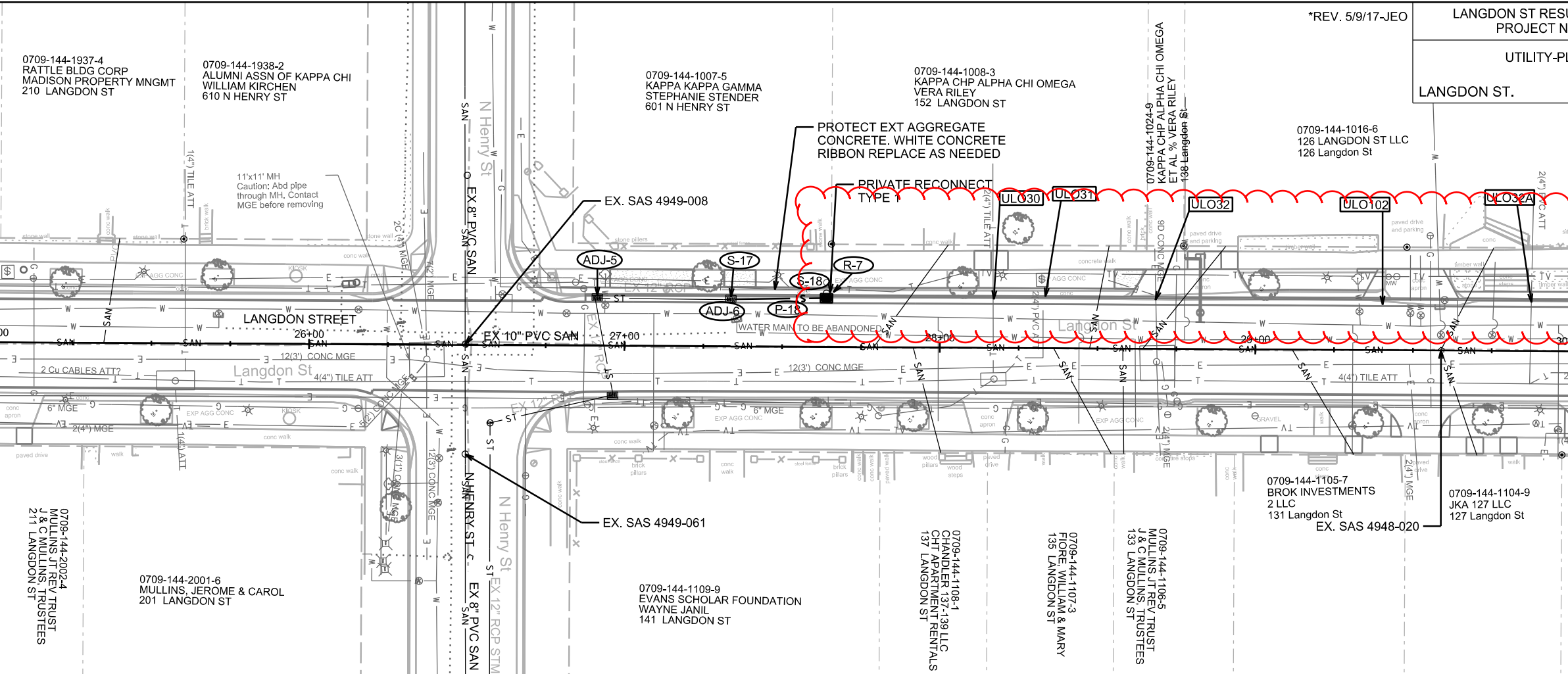
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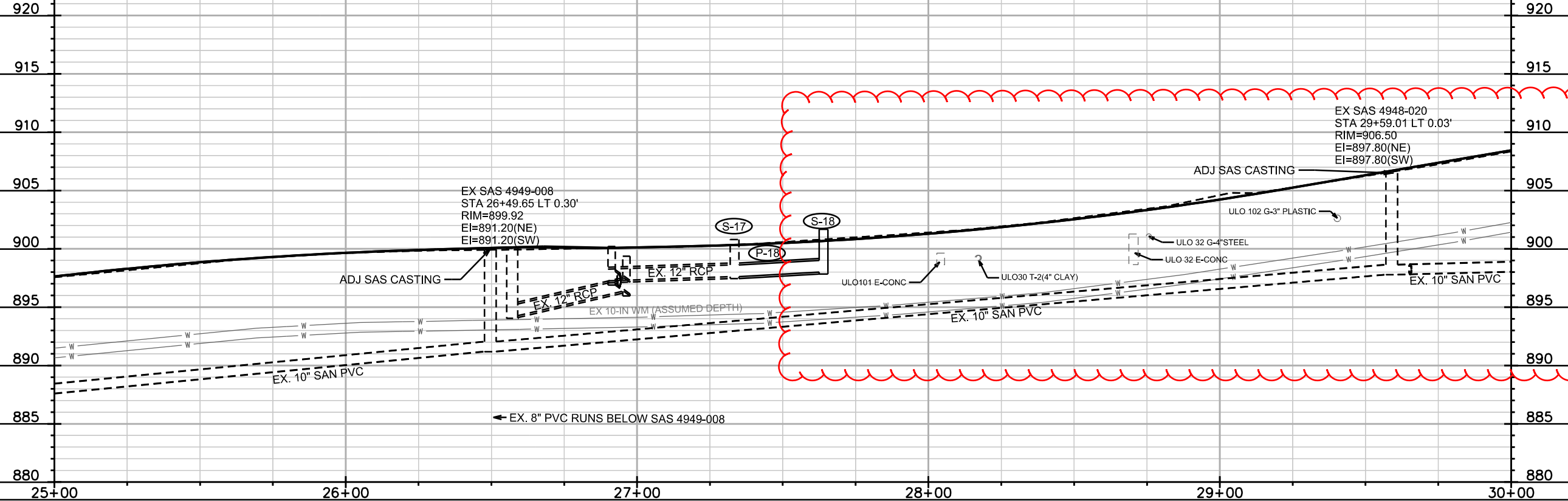
UTILITY-PLAN AND PROFILE  
LANGDON ST. CITY OF MADISON

MATCHLINE STA 25+00.00

MATCHLINE STA 30+00.00



INSTALL UTILITY TRENCH PATCH TYPE IV  
IN ALL SEWER TRENCHES IN ROADWAY



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

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

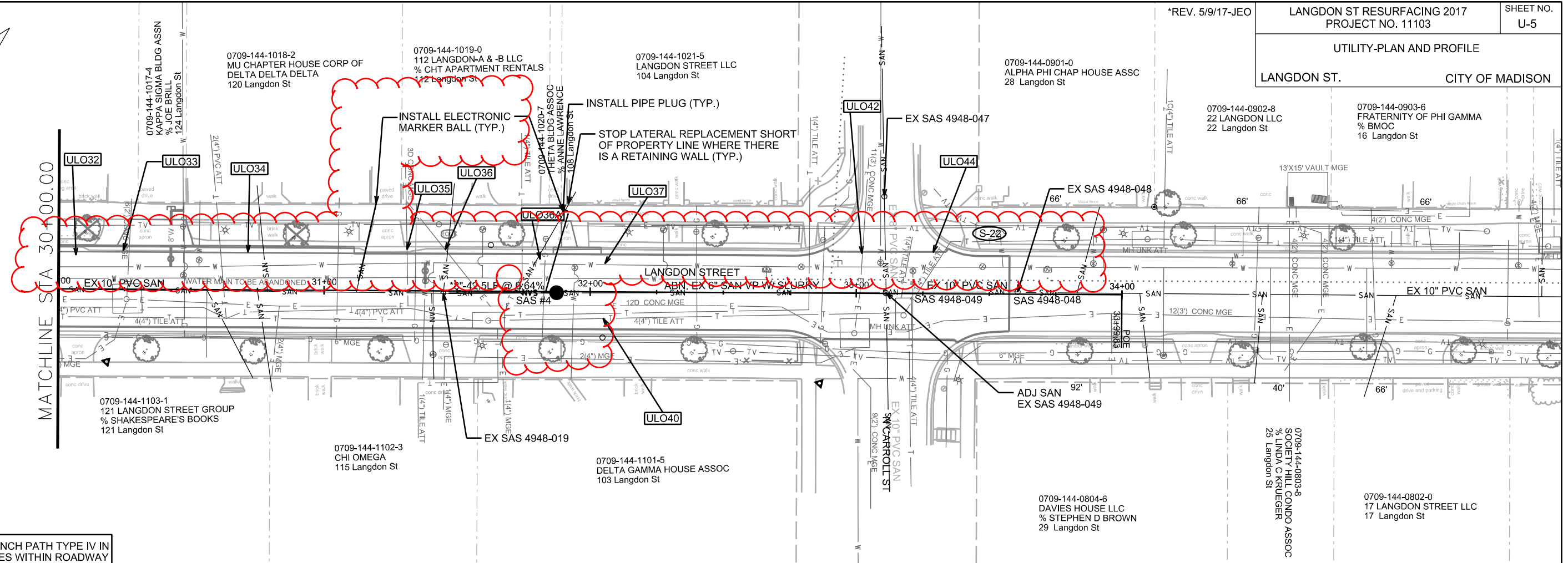
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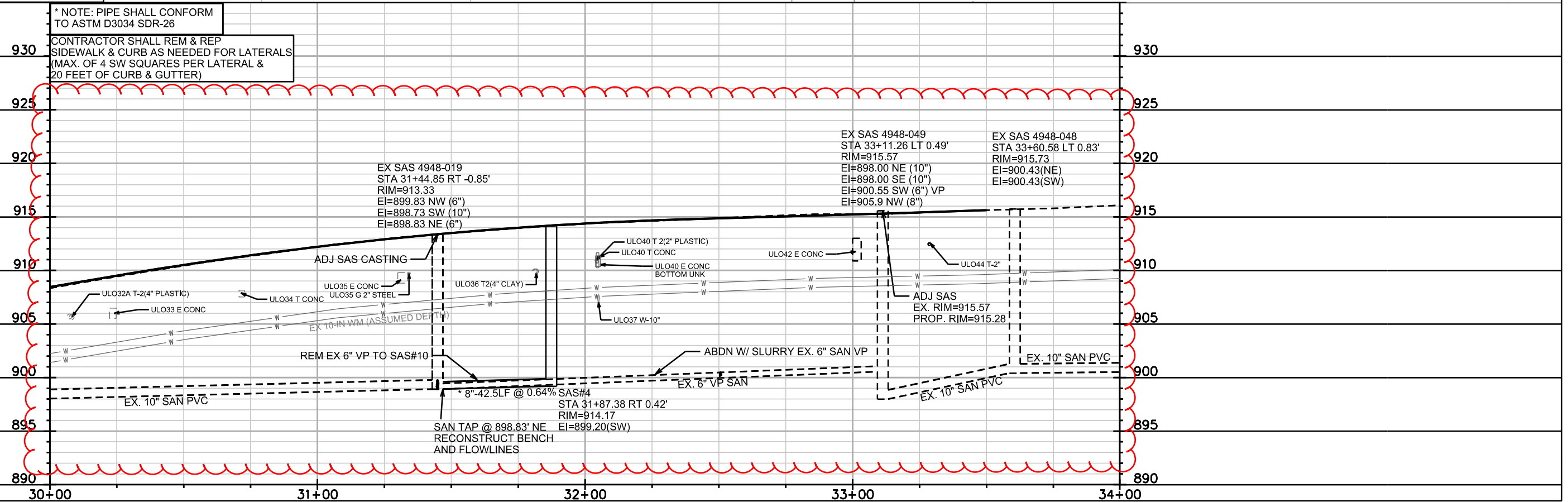


UTILITY-PLAN AND PROFILE  
LANGDON ST. CITY OF MADISON

\*REV. 5/9/17-JEO



INSTALL UTILITY TRENCH PATH TYPE IV IN ALL SEWER TRENCHES WITHIN ROADWAY



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

# SANITARY SEWER SCHEDULE

LANGDON ST. RESURFACING 2017	SHEET NO.
PROJECT NO. 11103	U-6
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>LANGDON ST</b>						
SAS#1	13+76.67	LT-0.13	861.72	850.5	11.22	
SAS#2	15+77.30	LT-0.77	865.51	854.5	11.01	
SAS#3	17+74.99	LT-0.34	877.78	866	11.78	
SAS#4	31+87.38	RT-0.42	914.17	899.2	14.97	

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>LANGDON ST</b>								
SAS 4948-019	SAS#4	898.93	899.2	42.5	0.64%	8"	ASTM D3034 SDR-26	
SAS 4849-007	SAS#1	849.09	850.5	131.5	1.07%	12"	ASTM D3034 SDR-35	
SAS#1	SAS#2	850.6	854.5	201	1.94%	12"	ASTM D3034 SDR-35	
SAS#2	SAS#3	854.6	866	198	5.76%	12"	ASTM D3034 SDR-35	

## REMOVE SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>LANGDON ST</b>						
SAS 4849-024	13+76.66	LT-0.11	861.69	850.5	11.19	
SAS 4849-025	15+77.32	LT-0.76	865.73	855.76	9.97	
SAS 4849-026	17+59.44	LT-0.27	877	867.69	9.31	

## SANITARY REMOVALS AND ABANDONMENTS

FROM (DNSTM)	TO (UPSTM)	LENGTH Feet	PAID (Y/N)	SIZE (DIA in)	PIPE TYPE	NOTES
<b>LANGDON ST</b>						
SAS 4948-049	SAS #4	117	N	6"	VP	SLURRY SANITARY SEWER MAIN
SAS #4	SAS 4948-019	49	N	6"	VP	REMOVE PIPE
SAS 4849-007	SAS 4849-024	131	N	12"	VP	REMOVE PIPE
SAS 4849-024	SAS 4849-025	201	N	12"	VP	REMOVE PIPE
SAS 4849-025	SAS 4849-026	182	N	12"	VP	REMOVE PIPE

## ADJUST SANITARY STRUCTURES RIM ELEVATIONS

SAS NO.	STATION	LOCATION (OFFSET)	EX ADJ HEIGHT (FT)	NET ADJ (FT)	EX. RIM	PROP RIM	NOTES
<b>LANGDON ST</b>							
SAS 4849-007	12+45.29	RT-1.39	0.17	-0.06	859.49	859.43	ADJ SAS CASTING
SAS 4849-034	19+51.04	RT-0.01	1.25	0.03	882.9	882.93	ADJ SAS
SAS 4948-019	31+44.85	RT-0.85	0.42	0.03	913.33	913.36	ADJ SAS CASTING
SAS 4948-020	29+59.01	LT-0.03	0.42	0.24	906.5	906.74	ADJ SAS CASTING
SAS 4948-049	33+11.26	LT-0.49	0.00	-0.29	915.57	915.28	ADJ SAS
SAS 4949-001	21+24.51	RT-4.34	0.42	0.32	885.58	885.9	ADJ SAS CASTING
SAS 4949-002	22+19.62	LT-1.26	0.75	0.41	888.67	889.08	ADJ SAS
SAS 4949-003	23+54.86	RT-0.01	0.50	0.05	892.82	892.87	ADJ SAS CASTING
SAS 4949-008	26+49.65	LT-0.30	0.17	0.15	899.92	900.07	ADJ SAS CASTING
SAS 4849-003	12+01.83	RT-1.04	0.08	0.00	858.95	858.95	ADJ SAS CASTING
SAS 4849-066	10+44.21	RT-1.05		0.00	856.20	856.20	ADJ SAS CASTING

## SPECIFIC NOTES

# STORM SEWER SCHEDULE

\* REV. 5/9/17-JEO

\*\* REV 5/25/17-JEO

LANGDON ST RESURFACING 2017	SHEET NO.
PROJECT NO. 11103	U-7
STORM SEWER SCHEDULE	
CITY OF MADISON	

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>LANGDON ST</b>							
* S-4	17+99.55	RT-15.31	H INLET	878.8	876.16	2.64	W/R-3067-7004-V
** S-4B	19+06.31	RT-15.54	H INLET	882.66	878.9	3.76	W/R-3067-7004-V
S-5	18+13.83	LT-15.17	H INLET	879.73	876.45	3.28	W/R-3067-7004-V
S-6	19+11.04	LT-15.57	H INLET	882.73	878.2	4.53	W/R-3067-7004-V (2) (3)
* S-7	19+55.25	RT-15.60	H INLET	882.64	880	2.64	W/R-3067-7004-V
S-8	20+89.72	RT-16.20	H INLET	884.72	882.1	2.62	W/R-3067-7004-V FP (3)
S-9	21+40.32	RT-15.52	H INLET	886.98	882.86	4.12	W/R-3290-A (1) (3)
* S-10	21+83.21	RT-15.49	H INLET	888.44	885.3	3.14	W/R-3290-A (1) (3)
* S-11	22+73.14	RT-16.29	H INLET	890.59	886.35	4.24	W/R-3067-7004-V (3)
* S-11A	23+40.87	RT-15.98	COLLAR	888	886.8	1.20	
* S-12	24+38.99	RT-15.63	H INLET	895.33	890.5	4.83	W/R-3067-7004-V (3)
S-17	27+33.44	LT-15.01	TAP	900.8	897.62	3.18	W/R-3067-7004-V
S-18	27+63.97	LT-15.50	H INLET	901.67	898	3.67	W/R-3067-7004-V (3)
* S-19	31+62.58	LT-15.50	H INLET	913.66	909.2	4.46	W/R-3067-7004-V (2)
* S-20	32+04.79	LT-15.35	H INLET	914.2	909.79	4.41	W/R-3067-7004-V (3)
* S-21	32+04.75	RT-15.62	H INLET	914.55	910.56	3.99	W/R-3067-7004-V (3)
* S-22	33+48.72	LT-15.55	H INLET	915.38	911.39	3.99	W/R-3067-7004-V

## PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>LANGDON ST</b>										
* P-4	IN 4849-004 (S-4)	S-5	875.38	876.45	14.7	11.7	9.15%	12"	RCP	
* P-5	S-5	S-6	876.45	878.2	97.2	94.2	1.86%	12"	RCP	
** P-6	S-4A	S-7	876.19	880	155.7	152.7	2.50%	15"	RCP	
** P-6A	S-4A	S-4B	876.19	878.9	106.8	103.8	2.61%	15"	RCP	
** P-6B	S-4B	S-7	878.9	880	48.9	45.9	2.40%	15"	RCP	
* P-7	S-7	S-8	880	882.1	134.5	131.5	1.60%	12"	RCP	
P-8	S-8	S-9	882.1	882.86	57	54	1.41%	12"	RCP	
P-9	S-9	S-10	882.87	885.3	48	44.9	5.41%	12"	RCP	
* P-10	S-10	S-11	885.5	886.35	89.9	86.9	0.98%	12"	RCP	
* P-11A	S-11	S-11A	886.35	886.8	67.7	64.7	0.70%	12"	RCP	
* P-11B	S-11A	S-12	886.8	890.5	98.1	95.1	3.89%	12"	RCP	
P-18	IN 4949-109 (S-17)	S-18	897.62	898	29	27.5	1.38%	12"	RCP	
* P-19	S-18	S-19	898	909.2	399	395.6	2.83%	12"	RCP	
* P-20	S-19	S-20	909.2	909.79	42.5	39.2	1.51%	12"	RCP	
* P-21	S-20	S-21	909.79	910.56	34	29	2.66%	12"	RCP	
* P-22	S-20	S-22	909.79	911.39	144	140.9	1.14%	12"	RCP	

**NOTE:** PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

## SPECIFIC NOTES

- (1) ROTATE CASTING TO FIT IN TYPE X CURB
- (2) VERIFY ACTIVE LATERAL. COORDINATE WITH ENGINEER.
- (3) PRIVATE RECONNECT

## 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; UD = UNDERDRAIN
- 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 JOJO O'BRIEN OF CITY ENGINEERING AT (608) 266-9721 FOR PRECAST APPROVALS, EMAIL SHOP DRAWINGS TO JOBRIEN@CITYOFMADISON.COM.

# STORM SEWER SCHEDULE

\* REV. 5/9/17-JEO

LANGDON ST RESURFACING 2017 PROJECT NO. 11103	SHEET NO. U-8
STORM SEWER SCHEDULE	
CITY OF MADISON	

## REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
IN 4849-001	R-1	18+13.91	LT-15.35	H INLET	
* S-4A	R-1A	17+99.55	RT-15.31	H INLET	
	R-2	19+11.04	LT-15.57	SCUPPER	(1)
	R-2A	18+14.65	RT-15.32	H INLET	
	R-3	20+89.72	RT-16.20	SCUPPER	(1)
	R-4	21+83.21	RT-15.49	SCUPPER	(1)
	R-5	22+73.14	RT-16.29	SCUPPER	(1)
	R-6	24+38.99	RT-15.63	SCUPPER	(1)
	R-7	27+63.97	LT-15.50	SCUPPER	(1)
	R-8	31+62.58	LT-15.50	SCUPPER	(1)
	R-9	32+04.75	RT-15.62	SCUPPER	(1)

## REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	IN 4849-004	IN 4849-001	12	12"	RCP	N	
* RP-2	IN 4849-003	IN 4849-002	13.3	12"	RCP	N	

## STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	ELEVATION	NOTES
ULO1	18+64.40	LT-15.20	E		NO CONFLICT-STM REDESIGN
ULO2	18+93.35	RT-15.56	E, TV		NO CONFLICT-STM REDESIGN
ULO3	19+82.90	LT-15.45	E, TV		NO CONFLICT-STM REDESIGN
ULO4	20+38.17	LT-11.10	W		NO CONFLICT-PIPE ELEV. CHANGE
ULO5	20+44.11	LT-7.34	E DUCT, T DUCT		NO CONFLICT-PIPE ELEV. CHANGE
ULO7-ULO8					ULO NOT NEEDED
ULO10	20+73.62	RT-8.63	T DUCT, T, T		NO CONFLICT-PIPE ELEV. CHANGE
ULO11	20+99.39	RT-12.88	T, T, T, T, T MH		CONFLICT-TO BE RELOCATED
ULO12	20+79.56	RT-3.79	E, T		ULO NOT NEEDED
ULO13	20+84.07	RT-9.05	T DUCT, T		ULO NOT NEEDED
ULO14	21+11.58	RT-12.71	E DUCT		NO CONFLICT-STM REDESIGN
ULO15-ULO19					ULOS NOT NEEDED
ULO20	21+34.47	RT-6.76	E DUCT, T DUCT		NO CONFLICT-STM REDESIGN
ULO20A-ULO24					ULOS NOT NEEDED
ULO25	22+23.90	RT-15.63	E DUCT		NO CONFLICT-STM REDESIGN
ULO26	22+33.79	RT-15.80	E DUCT		CONFLICT-TO BE RELOCATED
ULO27	23+38.49	RT-15.99	E, TV		NO CONFLICT-STM REDESIGN
ULO28	23+52.86	RT-15.50	T DUCT, T MH		NO CONFLICT-STM REDESIGN
ULO29	23+68.34	RT-16.29	E		NO CONFLICT-STM REDESIGN
ULO30	28+17.02	LT-15.44	T DUCT		NO CONFLICT-STM REDESIGN
ULO31	28+33.26	LT-16.02	T		NO UTILITY PRESENT
ULO32	28+68.29	LT-15.50	E		NO CONFLICT-STM REDESIGN
ULO32A	29+87.49	LT-15.46	T		NO CONFLICT-STM REDESIGN
ULO33	30+26.79	LT-15.46	E		NO CONFLICT-STM REDESIGN
ULO34	30+61.09	LT-15.34	T		NO CONFLICT-STM REDESIGN
ULO35	31+31.16	LT-15.46	E		NO CONFLICT-STM REDESIGN
ULO36	31+45.54	LT-15.39	E		ULO NOT NEEDED
ULO36A	31+74.28	LT-15.47	T		NO CONFLICT-STM REDESIGN
ULO37	32+04.91	LT-9.99	W		NO CONFLICT-STM REDESIGN
ULO39	32+04.82	RT-5.31	E DUCT		NO UTILITY PRESENT
ULO40	32+04.82	RT-9.30	T DUCT, T DUCT		NO CONFLICT-STM REDESIGN
ULO41	32+82.14	LT-15.32	T DUCT		NO UTILITY MARKED
ULO42	33+02.35	LT-15.55	E DUCT		NO CONFLICT-STM REDESIGN
ULO43	33+20.00	LT-15.78	T DUCT		NO UTILITY MARKED
ULO44	33+32.92	LT-15.60	T DUCT		NO CONFLICT-STM REDESIGN
ULO101	28+04.22	LT-13.38	E DUCT		NO CONFLICT-STM REDESIGN
ULO102	29+40.29	LT-13.17	G		NO CONFLICT-STM REDESIGN
ULO103	19+84.23	RT-13.74	E DUCT, UNK		NO CONFLICT-STM REDESIGN
ULO104	19+77.83	RT-13.90	E DUCT		NO CONFLICT-STM REDESIGN
ULO105	18+21.64	RT-15.48	E DUCT		CONFLICT-TO BE RELOCATED
ULO106	18+83.23	RT-15.82	E DUCT		CONFLICT-TO BE RELOCATED

## STORM SEWER POINT REPAIR

REPAIR PIPE NO.	REPAIR FROM	REMOVE TO	STATION	LOCATION (OFFSET)	LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
P-1	AS 4849-021	AS 4849-020	12+26.67	LT-1.20	8	15"	RCP	(2)

## STORM SEWER ABANDONMENTS

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	TYPE	PAID (Y/N)	NOTES

## STORM STRUCTURE ADJUSTMENTS

STRUC NO.	ADJUST NO.	STATION	LOCATION (OFFSET)	EX. TOC ELEV.	ADJUST ELEV.	ADJUST DIFF.	NOTES
IN 4849-026	ADJ 1	14+43.78	RT-15.19	862.92	862.95	0.03	
IN 4849-004 (S-4)	ADJ 2	17+99.11	LT-15.07	879.13	879.19	0.06	
* IN 4849-003	ADJ 3	17+99.56	RT-15.07	879.65	878.76	-0.89	
* IN 4849-002	ADJ 4	18+14.65	RT-15.32	879.42	879.38	-0.04	
IN 4949-108	ADJ 5	26+91.26	LT-15.19	900.2	900.97	0.77	
IN 4949-109	ADJ 6	27+33.44	LT-15.01	900.8	901.38	0.58	
AS 4849-021	ADJ 7	12+47.85	RT-22.45	859.36	859.31	-0.05	

## SPECIFIC NOTES:

- ULOs INCLUDED FOR ALTERNATE DESIGN OF STORM SEWER
- (1) SCUPPER REMOVAL PAID AS REMOVE INLET
- (2) 2 COLLARS PAID SEPARATE FOR POINT REPAIR

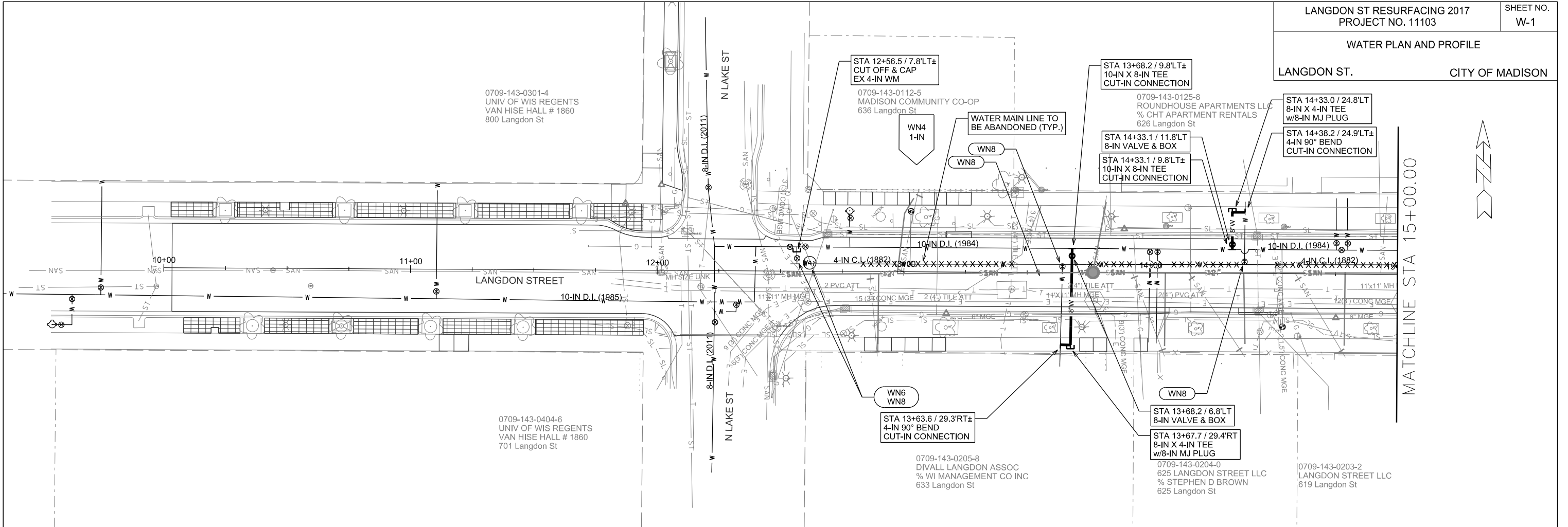
## STANDARD NOTES:

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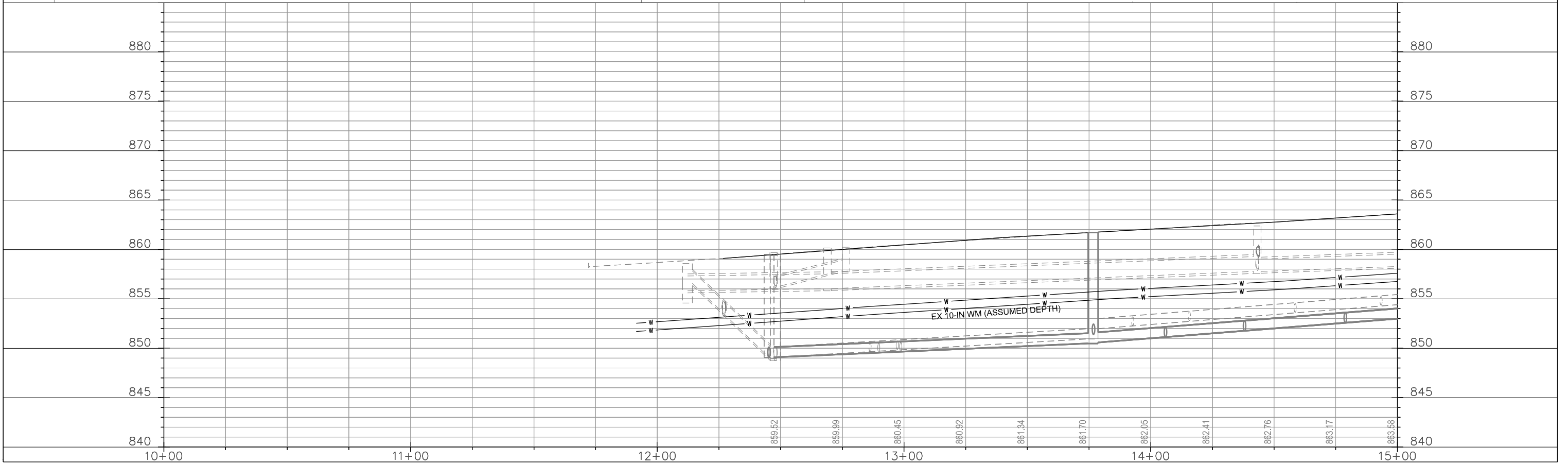
\*10 ULOs UNDISTRIBUTED

WATER PLAN AND PROFILE

LANGDON ST. CITY OF MADISON



MATCHLINE STA 15+00.00



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

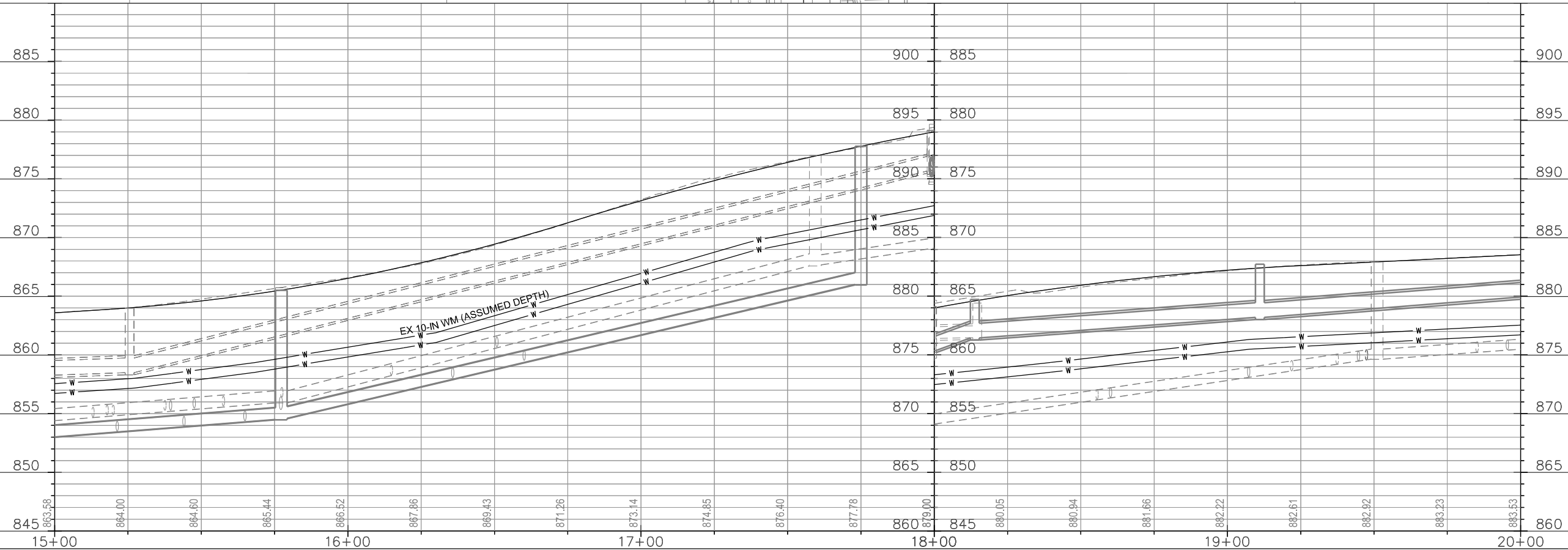
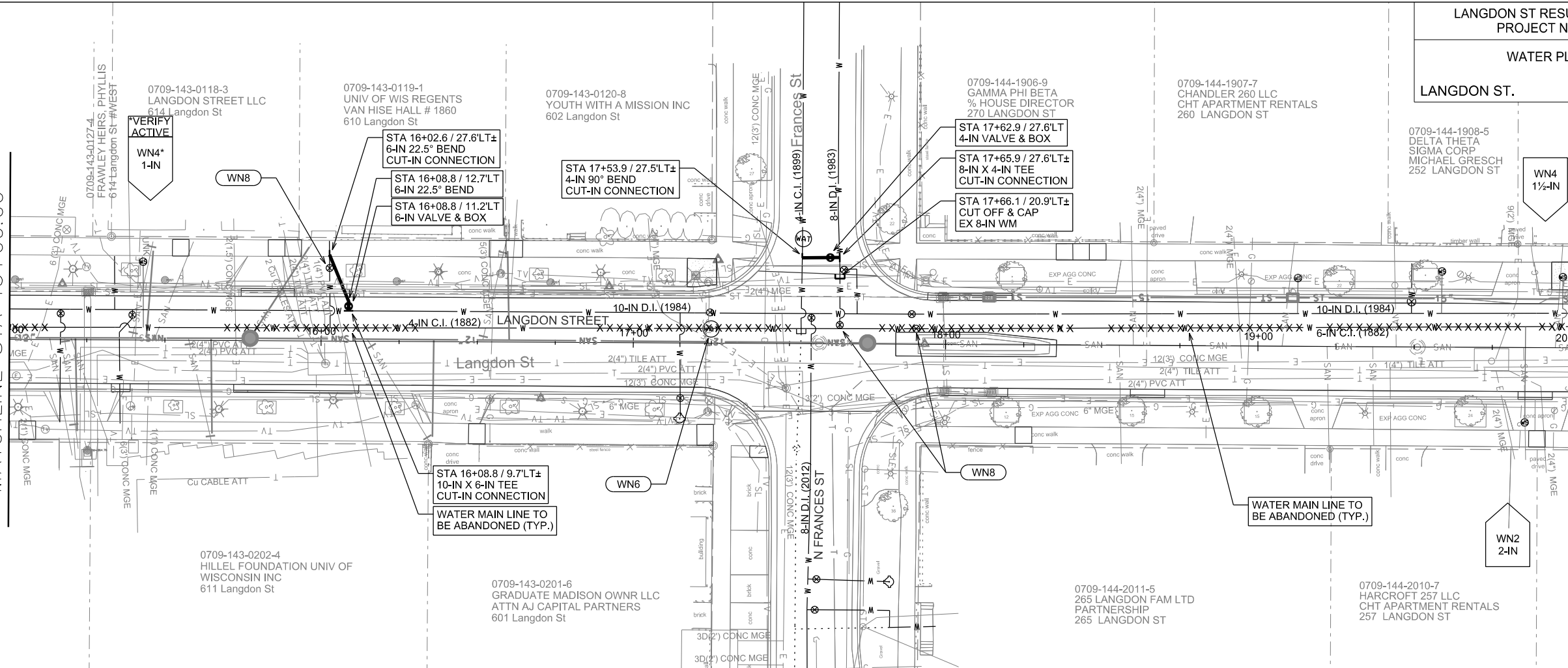
WATER PLAN AND PROFILE

LANGDON ST. CITY OF MADISON



MATCHLINE STA 15+00.00

MATCHLINE STA 20+00.00



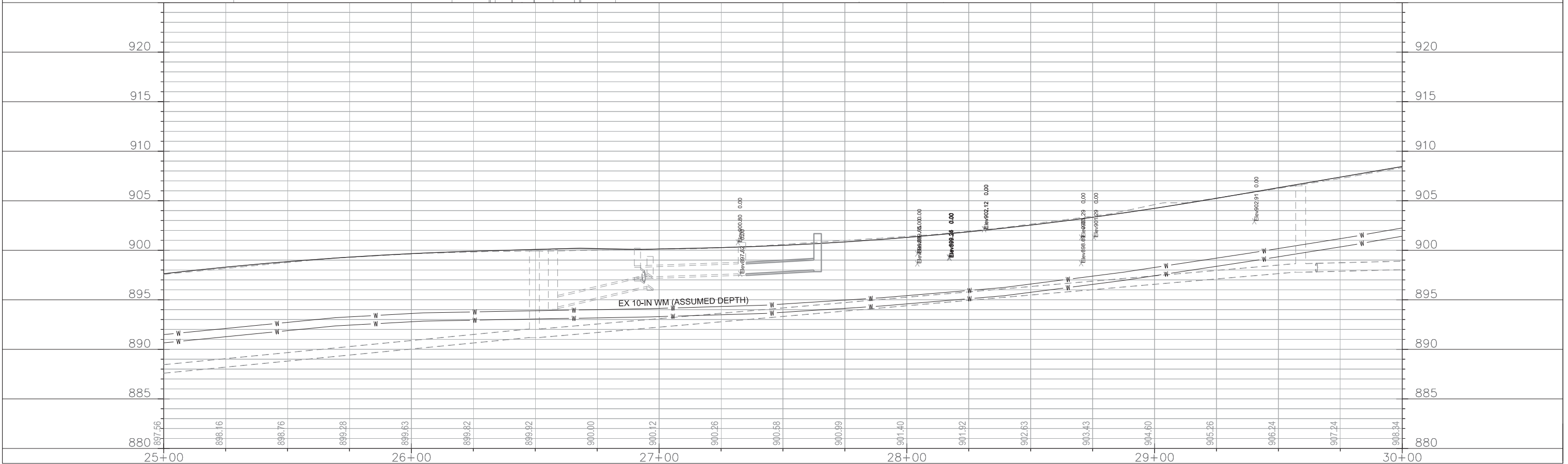
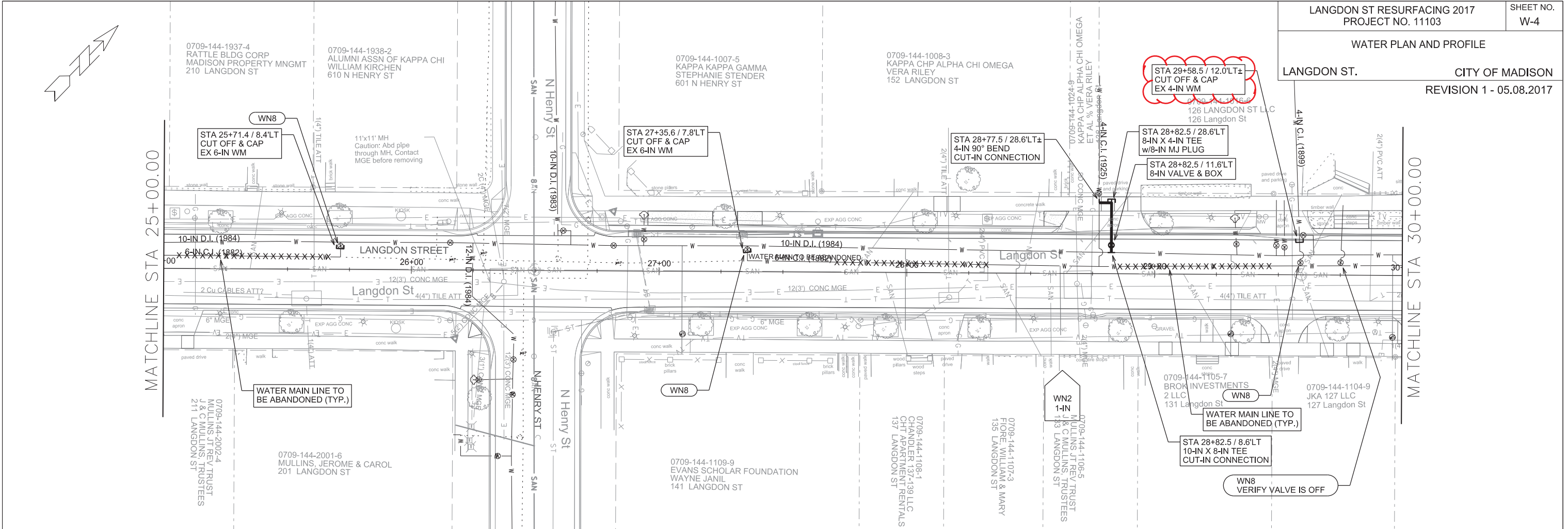
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



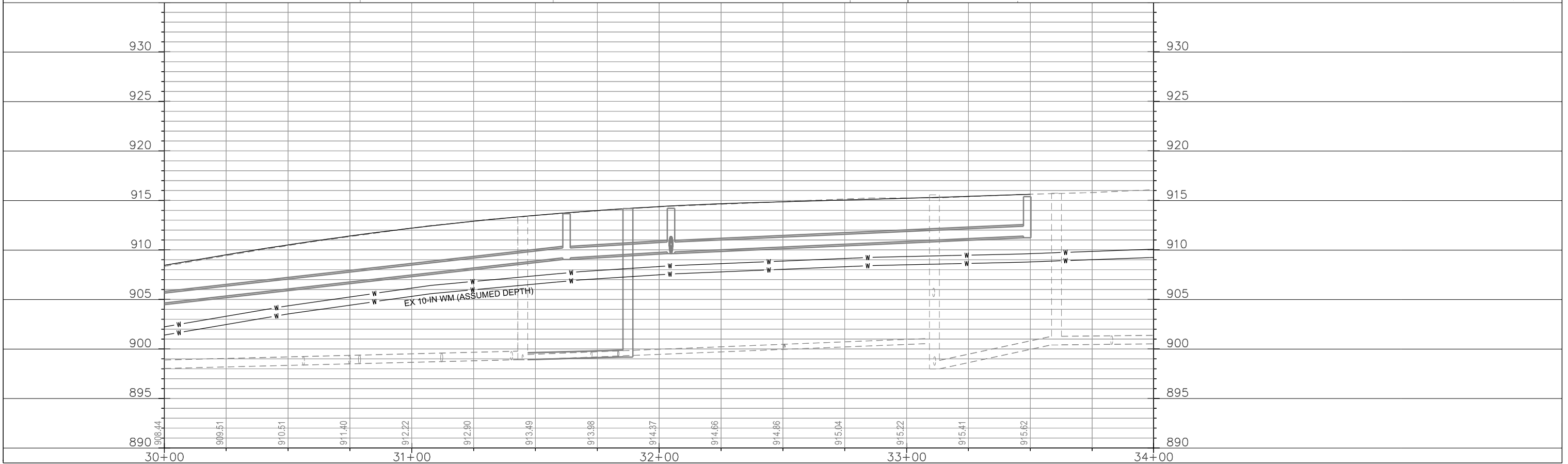
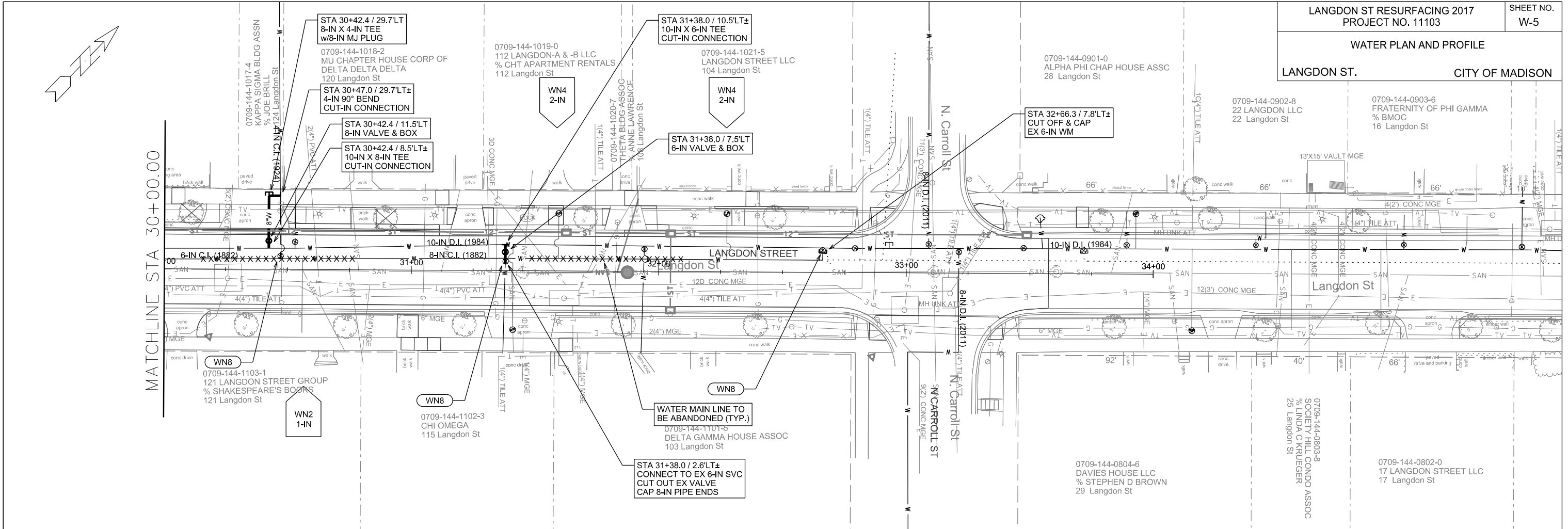


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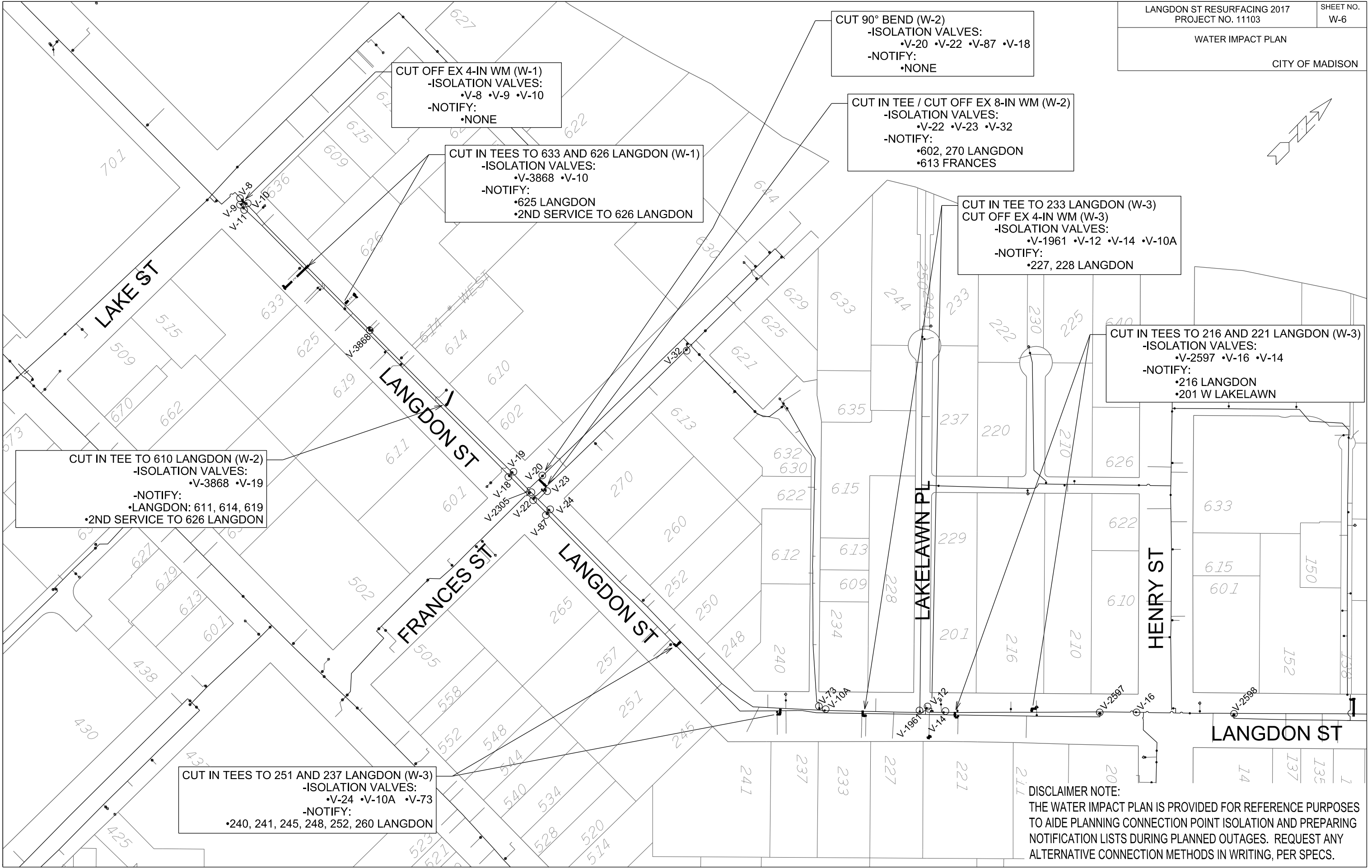
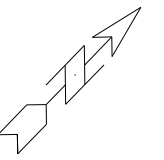


PLOT SCALE:

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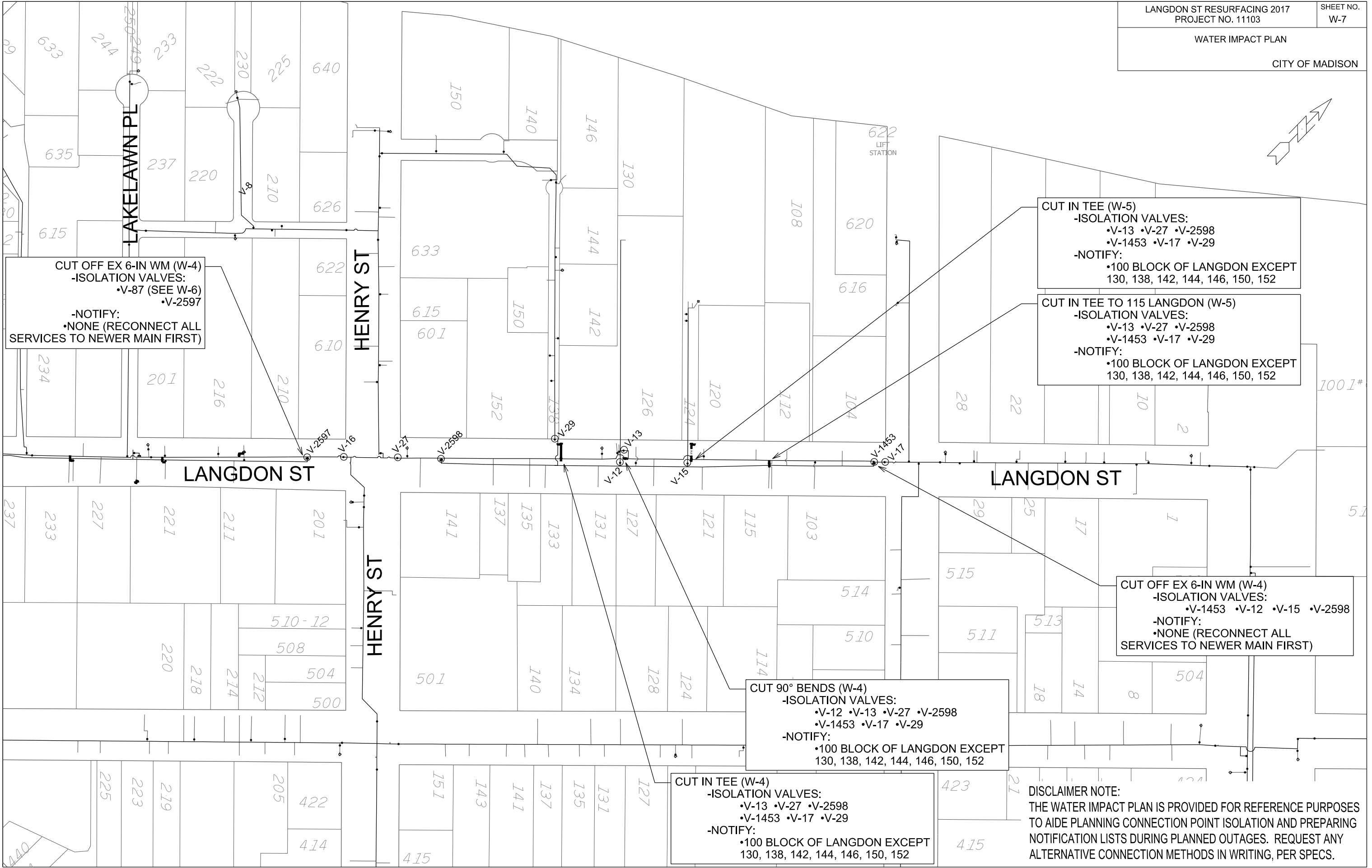
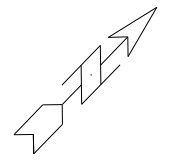
DISCLAIMER NOTE:  
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES  
TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING  
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY  
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

**CUT OFF EX 6-IN WM (W-4)**  
-ISOLATION VALVES:  
•V-87 (SEE W-6)  
•V-2597  
  
-NOTIFY:  
•NONE (RECONNECT ALL SERVICES TO NEWER MAIN FIRST)

**CUT IN TEE (W-5)**  
-ISOLATION VALVES:  
•V-13 •V-27 •V-2598  
•V-1453 •V-17 •V-29  
  
-NOTIFY:  
•100 BLOCK OF LANGDON EXCEPT 130, 138, 142, 144, 146, 150, 152

**CUT IN TEE TO 115 LANGDON (W-5)**  
-ISOLATION VALVES:  
•V-13 •V-27 •V-2598  
•V-1453 •V-17 •V-29  
  
-NOTIFY:  
•100 BLOCK OF LANGDON EXCEPT 130, 138, 142, 144, 146, 150, 152

**CUT OFF EX 6-IN WM (W-4)**  
-ISOLATION VALVES:  
•V-1453 •V-12 •V-15 •V-2598  
  
-NOTIFY:  
•NONE (RECONNECT ALL SERVICES TO NEWER MAIN FIRST)

**CUT 90° BENDS (W-4)**  
-ISOLATION VALVES:  
•V-12 •V-13 •V-27 •V-2598  
•V-1453 •V-17 •V-29  
  
-NOTIFY:  
•100 BLOCK OF LANGDON EXCEPT 130, 138, 142, 144, 146, 150, 152

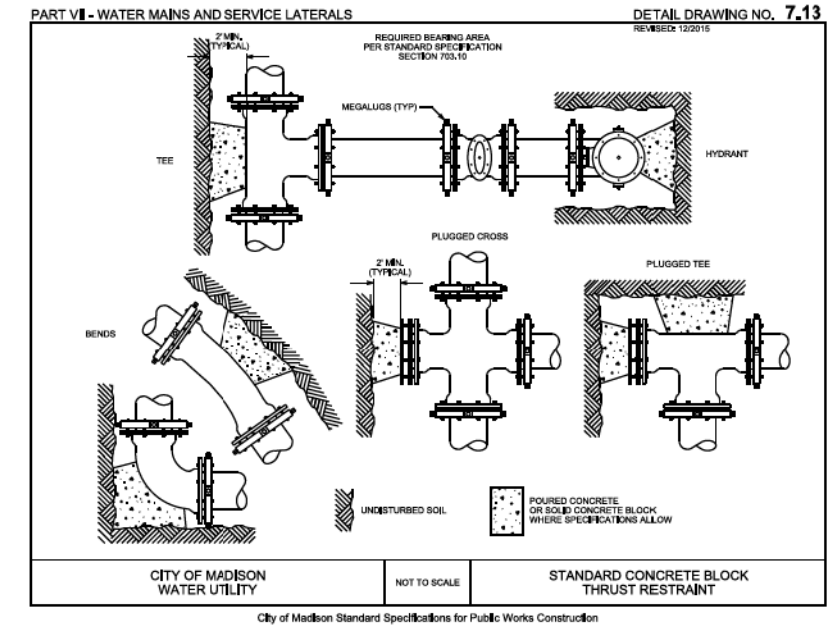
**CUT IN TEE (W-4)**  
-ISOLATION VALVES:  
•V-13 •V-27 •V-2598  
•V-1453 •V-17 •V-29  
  
-NOTIFY:  
•100 BLOCK OF LANGDON EXCEPT 130, 138, 142, 144, 146, 150, 152

**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.

**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 DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. 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 FROM THE OLDER WATER MAIN TO THE NEWER WATER MAIN.
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF; ABANDON CURB BOX AS REQUIRED.
- WN4 DISCONNECT FROM THE OLDER WATER MAIN AND RECONNECT THE EXISTING COPPER WATER SERVICE LATERAL TO THE NEWER 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



**ESTIMATE OF PROJECT WATER MATERIALS:**

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

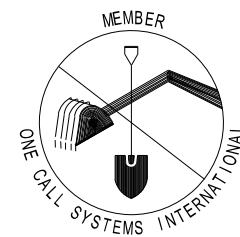
WATER MAINS	TOTAL	WATER MAINS	TOTAL
4-IN PIPE (LF)	90	4-IN BENDS (UNDISTRIBUTED)	4
6-IN PIPE (LF)	60	6-IN BENDS (UNDISTRIBUTED)	4
8-IN PIPE (LF)	110	8-IN BENDS (UNDISTRIBUTED)	4
10-IN PIPE (LF)	AS REQ		
POLY WRAP	300		
4-IN VALVES & BOXES	5		
6-IN VALVES & BOXES	5		
8-IN VALVES & BOXES	4		
4-IN - 90° BENDS	11		
6-IN - 22.5° BENDS	2		
6-IN - 90° BENDS	6		
8-IN X 4-IN TEES	5		
10-IN X 8-IN TEES	4		
10-IN X 4-IN TEES	2		
10-IN X 6-IN TEES	5		
4-IN MJ PLUGS	2		
6-IN MJ PLUGS	3		
8-IN MJ PLUGS	5		
8-IN MJ CAPS	2		
10-IN SOLID SLEEVES	10		
4-IN X 3-IN REDUCERS	1		
1-IN THRU 2-IN COPPER	AS REQ		

NOTE:  
UNDISTRIBUTED FITTINGS SHALL BE INCLUDED IN THE ESTIMATE AND USED AS REQUIRED FOR COMPLETING PIPE CONNECTIONS AS SHOWN ON THE PLANS. ANY FITTINGS IN EXCESS OF THOSE SHOWN ON THE PLANS AND IN EXCESS OF THE UNDISTRIBUTED FITTING AMOUNTS, SHALL BE PAID AS EXTRA FITTINGS PER STANDARD SPECIFICATIONS.

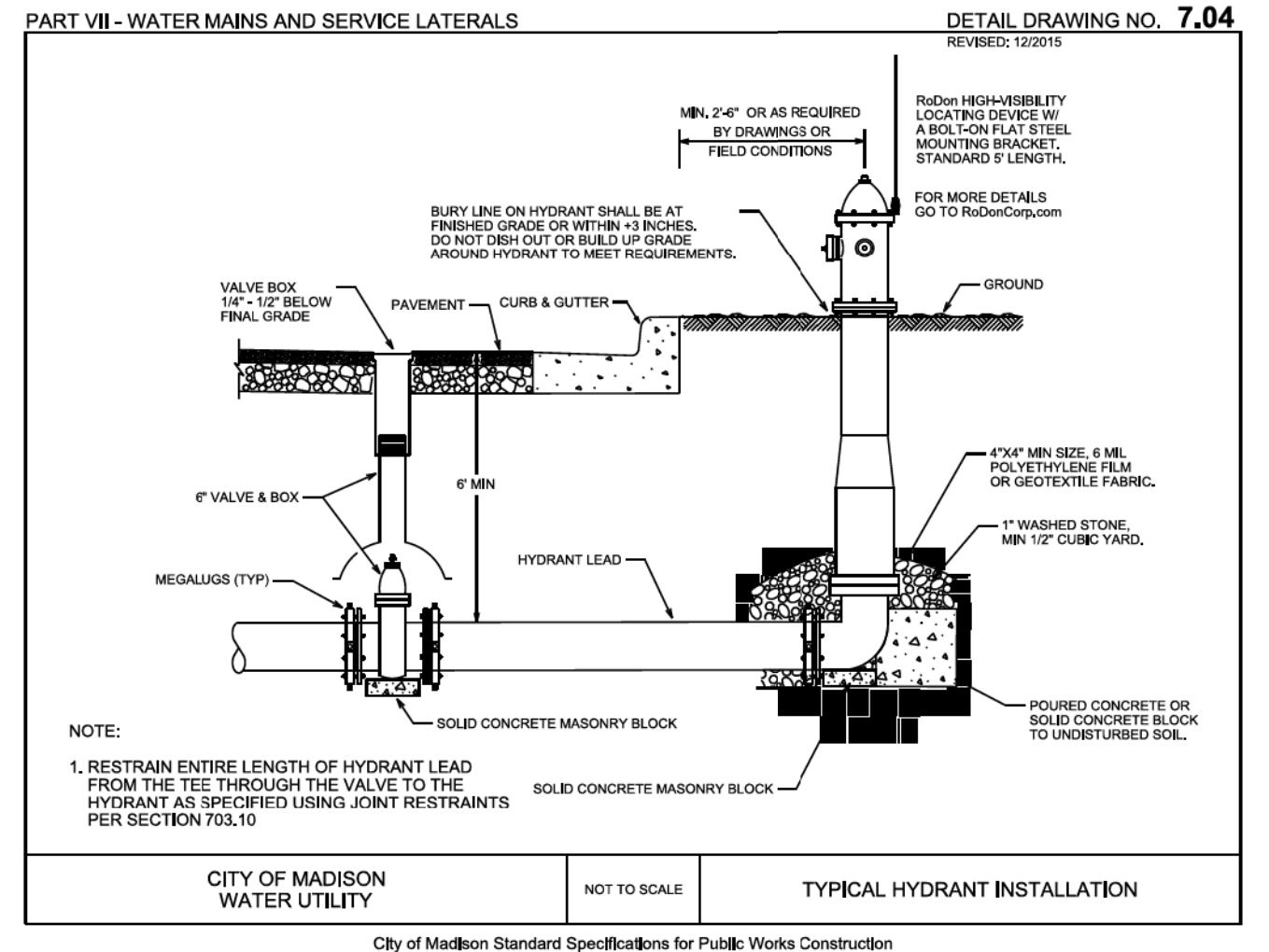
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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:**  
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.



- NOTE:
1. RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

PLOT SCALE:

PLOT NAME:

REV. DATE:

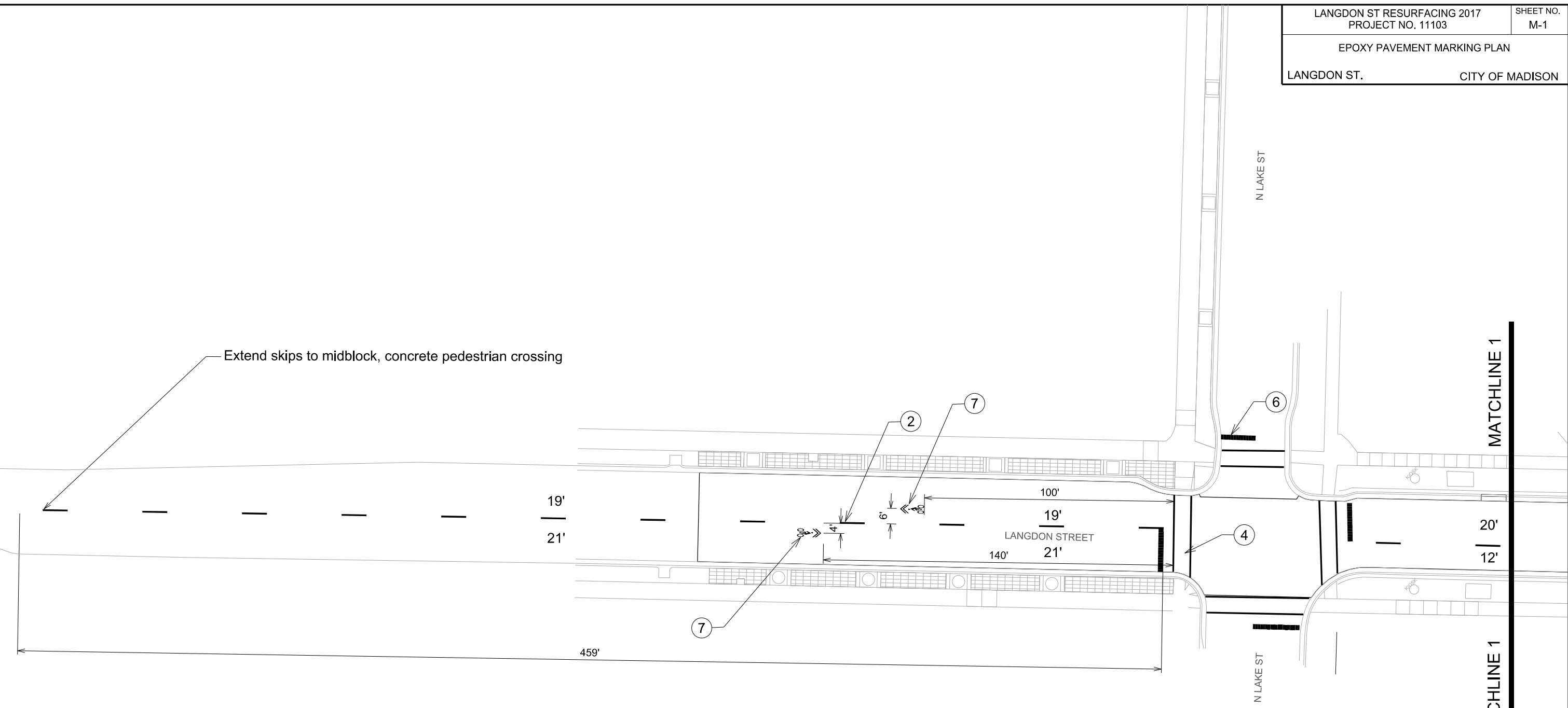
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.



Callout	Bid Item	Description
1	60801	Pavement Marking Epoxy, 4-Inch Double Yellow
2	60802	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
3	60803	Pavement Marking Epoxy, 8-Inch Solid White
4	60812	Pavement Marking Epoxy, 6-Inch White, Crosswalk
5	60816	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
6	60818	Pavement Marking Epoxy, 24-Inch White, Stop Line
7	60822	Pavement Marking Epoxy, Symbol, Bike Sharrows

All crosswalks are 6' wide.  
 All stop bars are 4' behind crosswalks.  
 Contact Tom Mohr, 608-267-8725 with questions

EPOXY PAVEMENT MARKING PLAN

LANGDON ST.

CITY OF MADISON

Callout	Bid Item	Description
1	60801	Pavement Marking Epoxy, 4-Inch Double Yellow
2	60802	Pavement Marking Epoxy, 6-Inch Yellow Skips (10' Line, 30' Gap)
3	60803	Pavement Marking Epoxy, 8-Inch Solid White
4	60812	Pavement Marking Epoxy, 6-Inch White, Crosswalk
5	60816	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
6	60818	Pavement Marking Epoxy, 24-Inch White, Stop Line
7	60822	Pavement Marking Epoxy, Symbol, Bike Sharrow

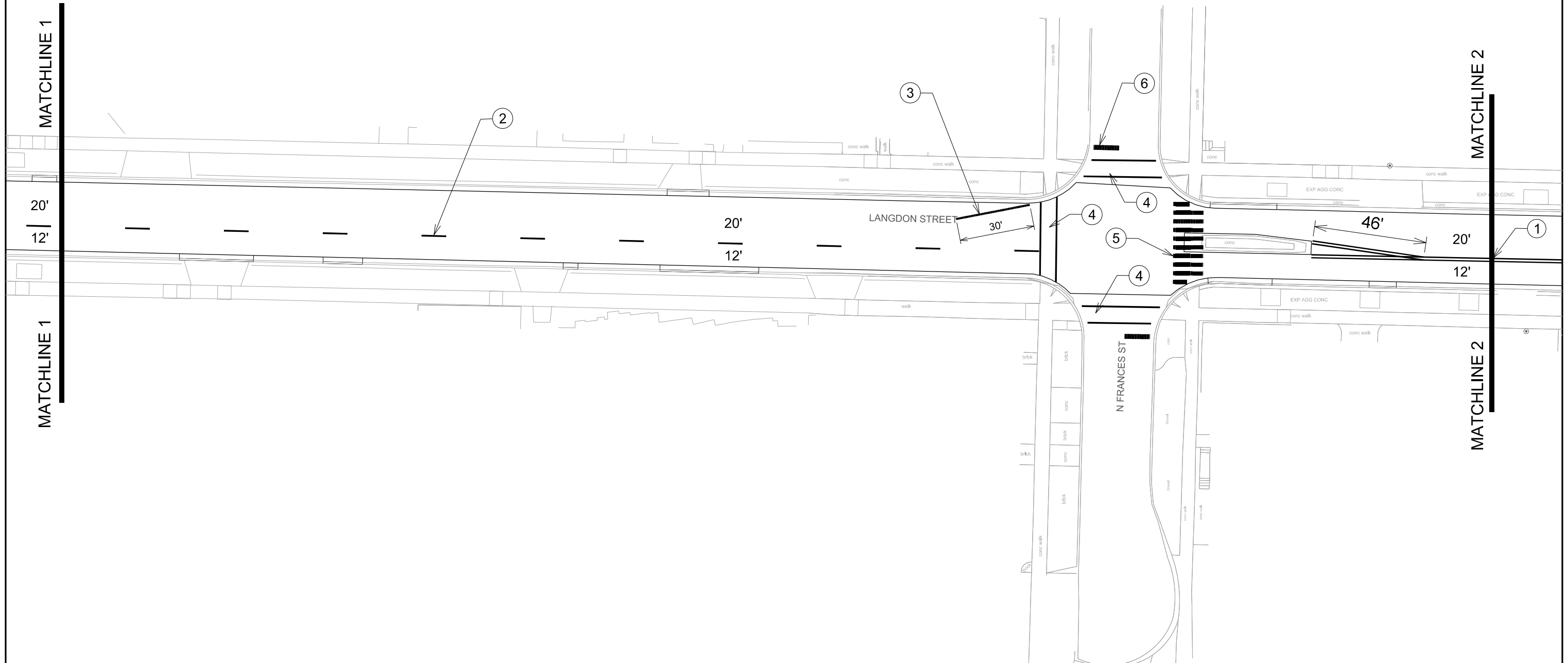
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PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

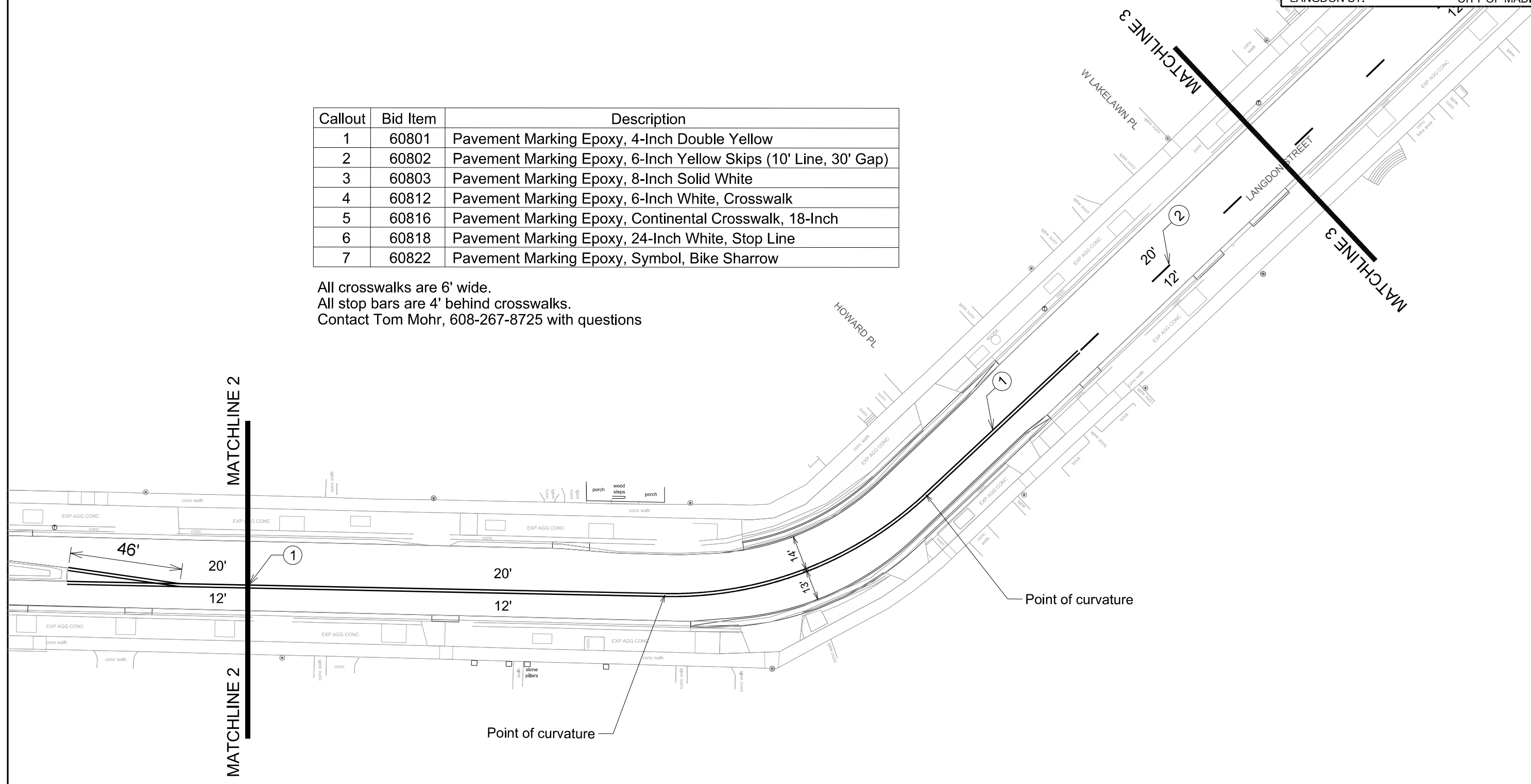


EPOXY PAVEMENT MARKING PLAN

LANGDON ST. CITY OF MADISON

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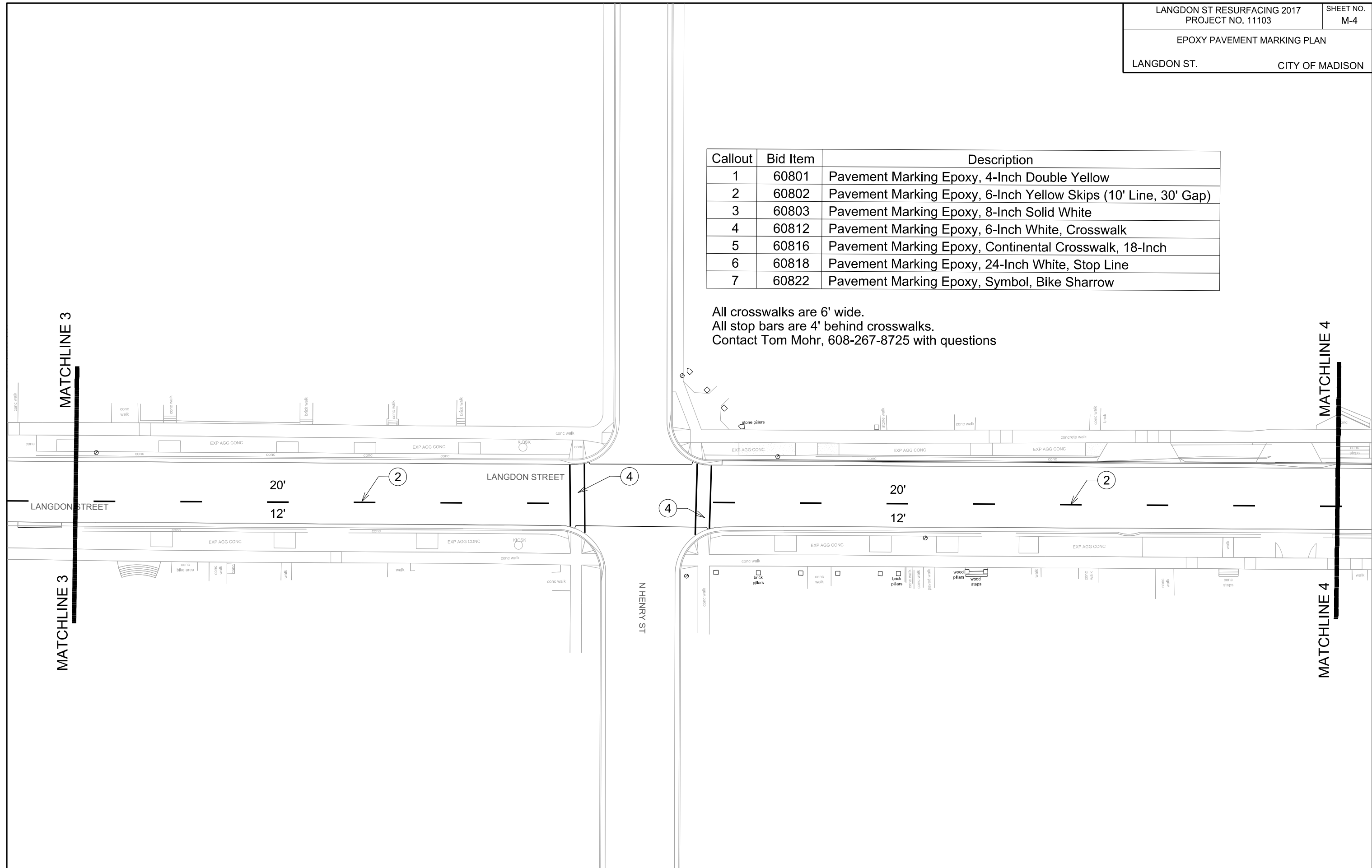
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PLOT SCALE:

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REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





EPOXY PAVEMENT MARKING PLAN

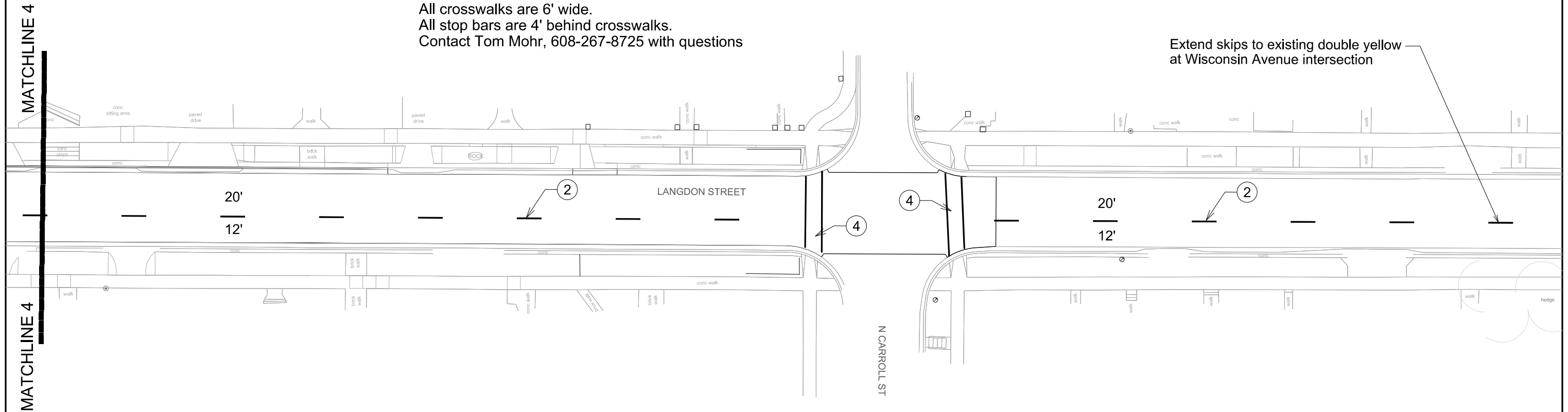
LANGDON ST.

CITY OF MADISON

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7	60822	Pavement Marking Epoxy, Symbol, Bike Sharrow

All crosswalks are 6' wide.  
All stop bars are 4' behind crosswalks.  
Contact Tom Mohr, 608-267-8725 with questions

Extend skips to existing double yellow  
at Wisconsin Avenue intersection



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

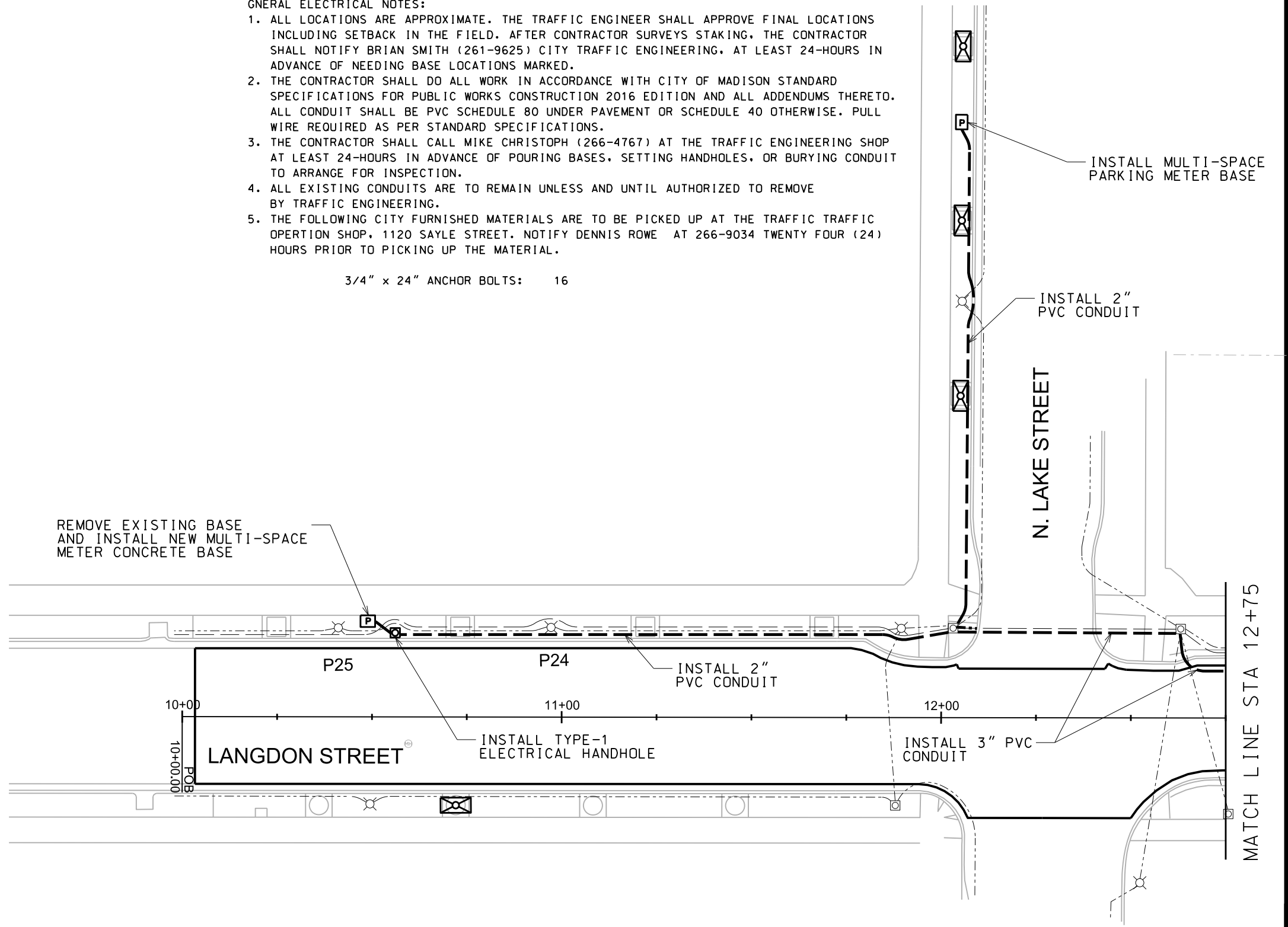
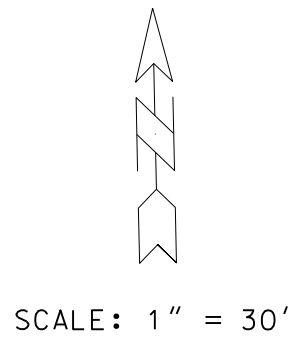
LEGEND

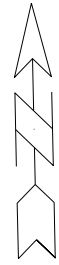
- PLACE STREET LIGHTING PVC CONDUIT, 2" UNLESS NOTED AS OTHER
- PLACE SIGNAL/COMMUNICATION PVC CONDUIT, 3" UNLESS NOTED AS OTHER
- EXISTING STREET LIGHTING CONDUIT
- EXISTING SIGNAL/COMMUNICATION CONDUIT
- FO- EXISTING CONDUIT WITH FIBER OPTIC CABLE
- ☐ CONSTRUCT ELECTRICAL HANDHOLE TYPE 1
- ☑ CONSTRUCT ELECTRICAL HANDHOLE TYPE 5
- ☒ CONSTRUCT ELECTRICAL HANDHOLE TYPE 7
- ☐ CONSTRUCT BASE FOR MULTISPACE PARKING METER
- ☼ CONSTRUCT LB-1 BASE
- ☼ CONSTRUCT LB-3 BASE (UNLESS NOTES AS OTHER)
- ☉ EXISTING STREET LIGHT POLE/BASE
- ☉ EXISTING TRAFFIC SIGNAL POLE/BASE
- ☐ EXISTING ELECTRICAL HANDHOLE

GENERAL ELECTRICAL NOTES:

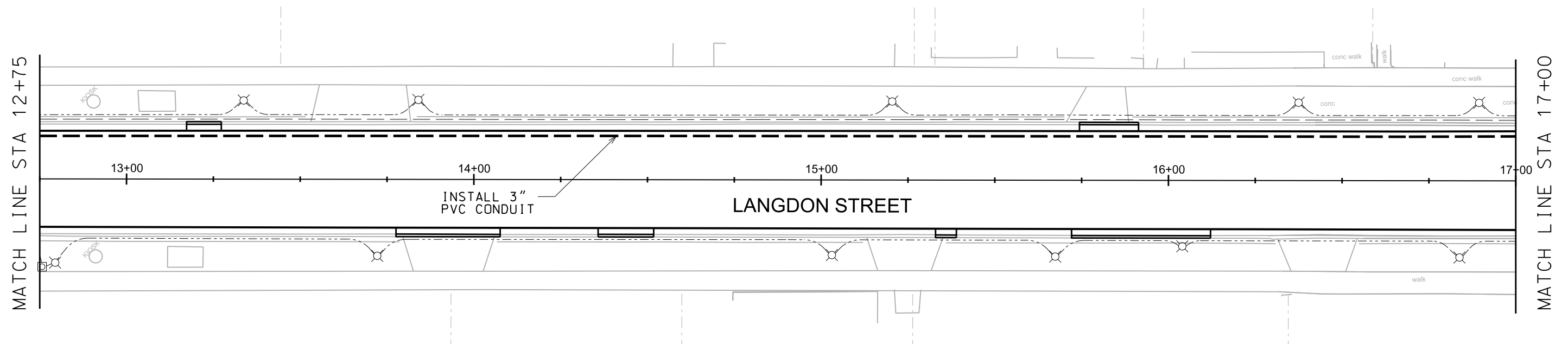
1. ALL LOCATIONS ARE APPROXIMATE. THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS INCLUDING SETBACK IN THE FIELD. AFTER CONTRACTOR SURVEYS STAKING, THE CONTRACTOR SHALL NOTIFY BRIAN SMITH (261-9625) CITY TRAFFIC ENGINEERING, AT LEAST 24-HOURS IN ADVANCE OF NEEDING BASE LOCATIONS MARKED.
2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2016 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 CHRISTOPH (266-4767) AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HOURS IN ADVANCE OF POURING BASES, SETTING HANDHOLES, OR BURYING CONDUIT TO ARRANGE FOR INSPECTION.
4. ALL EXISTING CONDUITS ARE TO REMAIN UNLESS AND UNTIL AUTHORIZED TO REMOVE BY TRAFFIC ENGINEERING.
5. THE FOLLOWING CITY FURNISHED MATERIALS ARE TO BE PICKED UP AT THE TRAFFIC TRAFFIC OPERATION SHOP, 1120 SAYLE STREET. NOTIFY DENNIS ROWE AT 266-9034 TWENTY FOUR (24) HOURS PRIOR TO PICKING UP THE MATERIAL.

3/4" x 24" ANCHOR BOLTS: 16

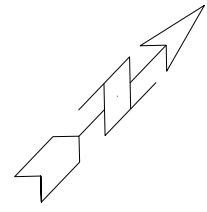




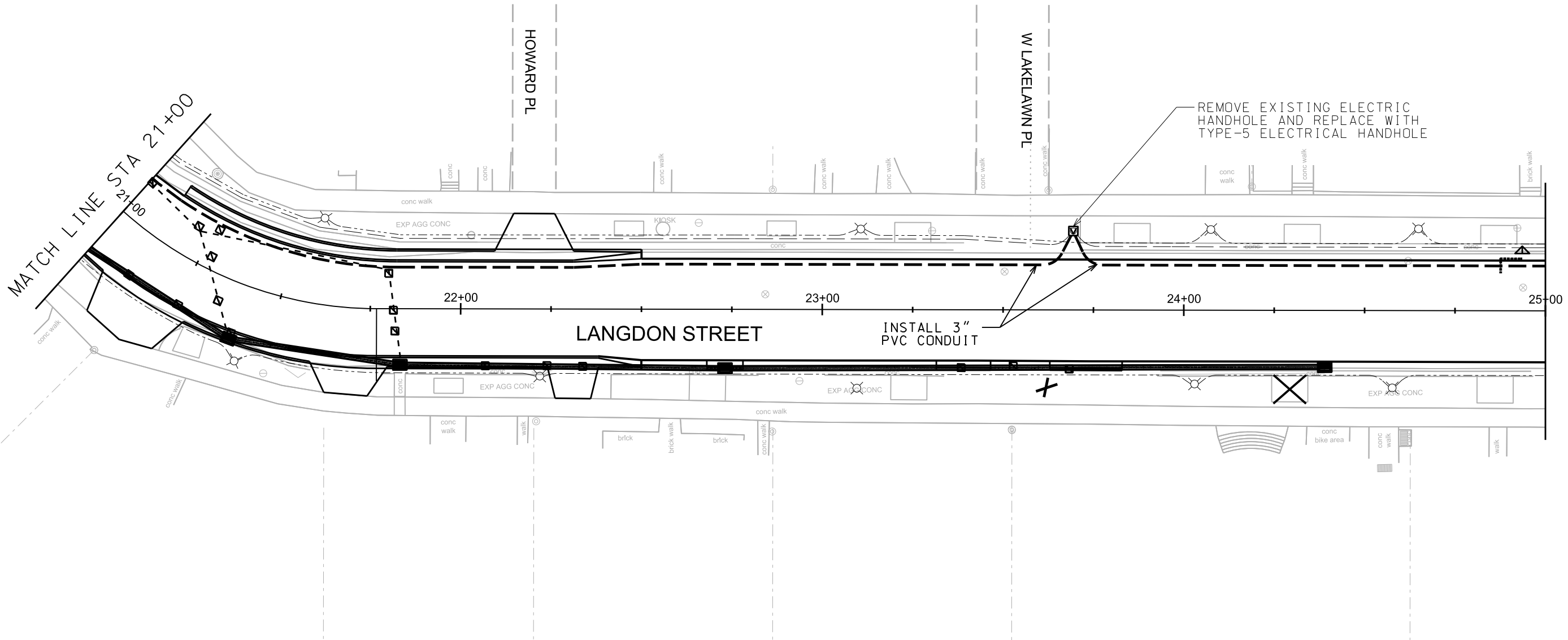
SCALE: 1" = 30'







SCALE: 1" = 30'

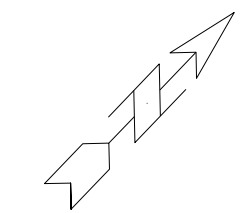
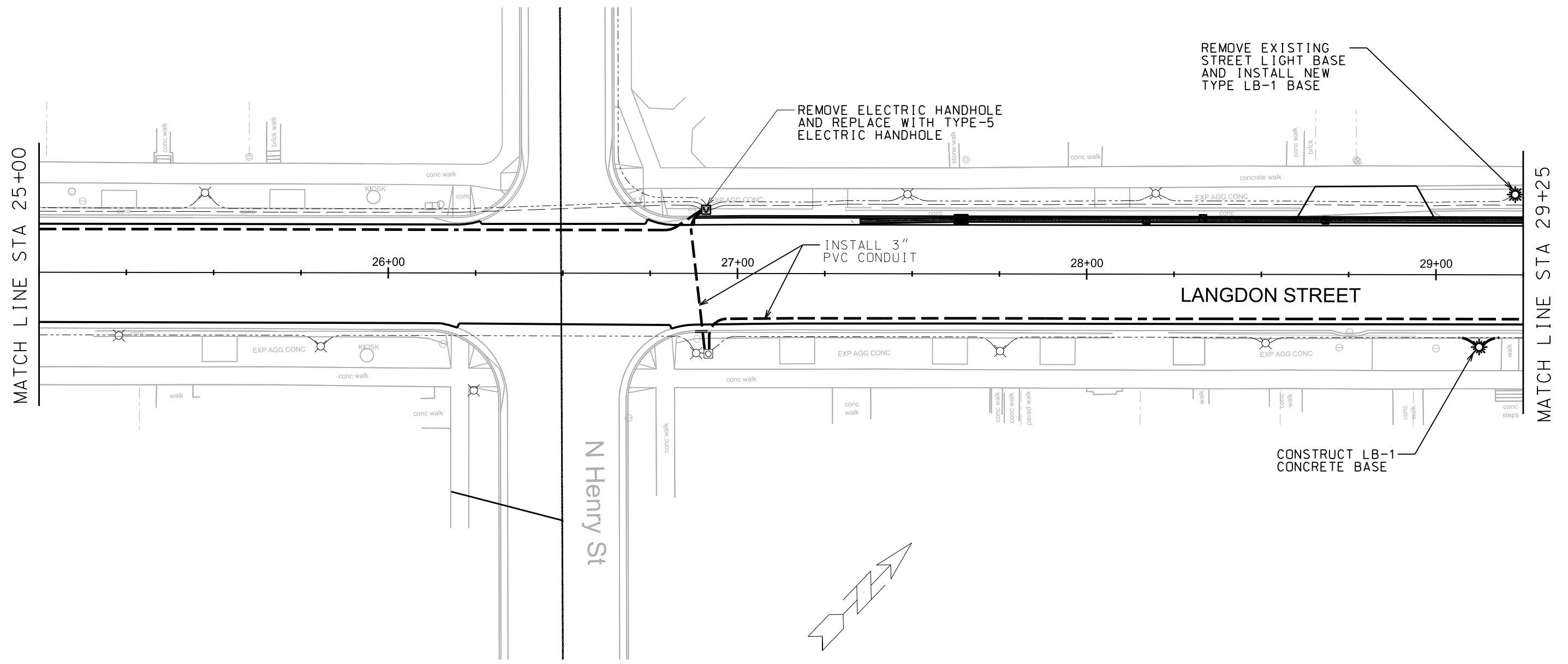


MATCH LINE STA 21+00

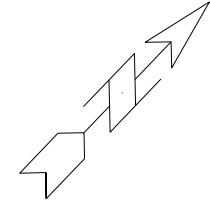
MATCH LINE STA 25+00

REMOVE EXISTING ELECTRIC  
HANDHOLE AND REPLACE WITH  
TYPE-5 ELECTRICAL HANDHOLE

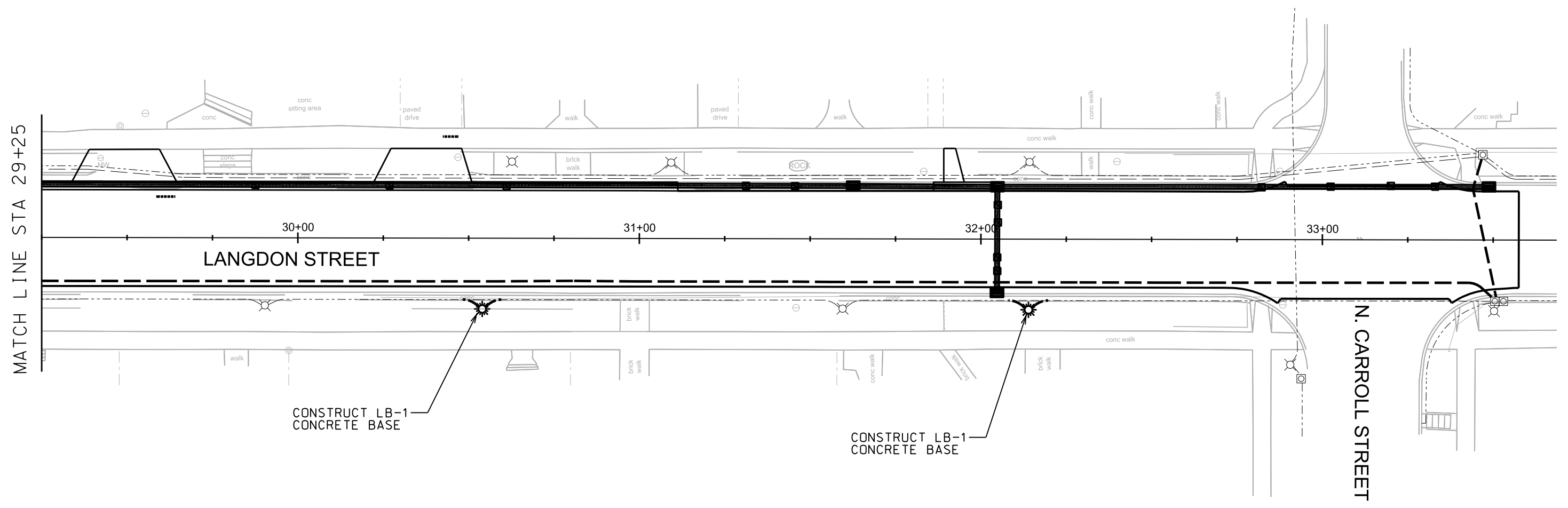
INSTALL 3"  
PVC CONDUIT



SCALE: 1" = 30'



SCALE: 1" = 30'



CROSS SECTIONS

LANGDON ST.

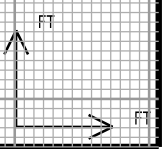
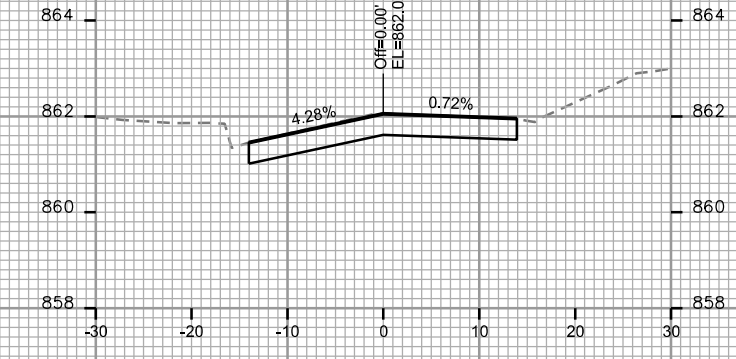
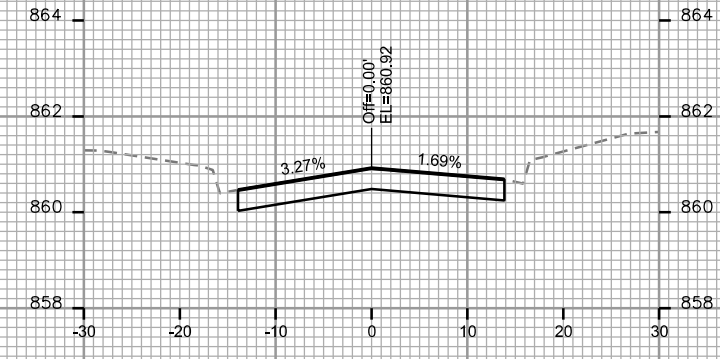
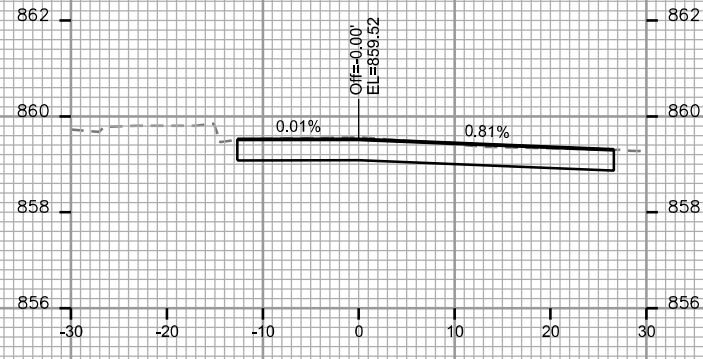
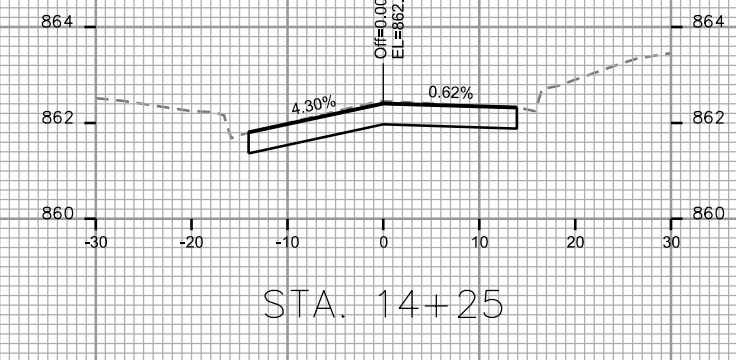
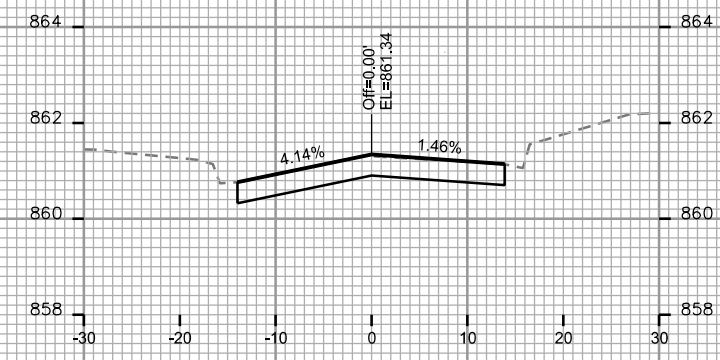
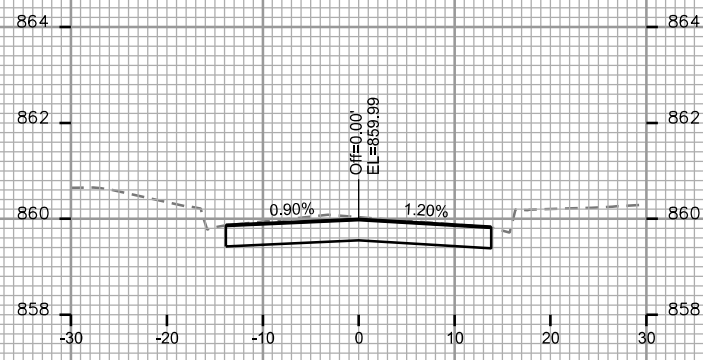
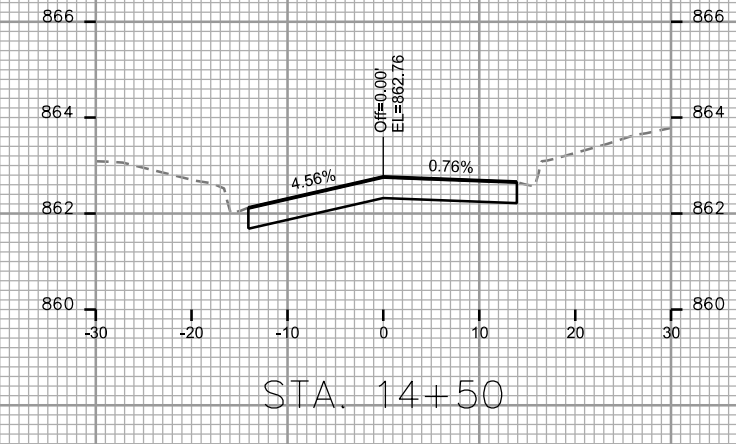
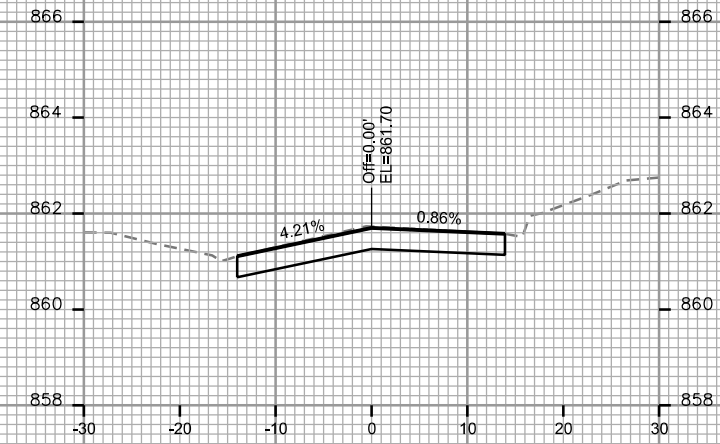
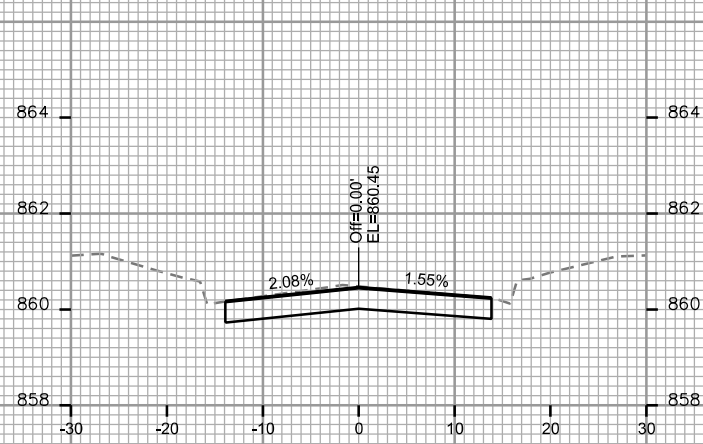
CITY OF MADISON

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION





CROSS SECTIONS

LANGDON ST.

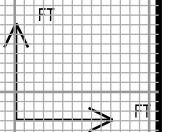
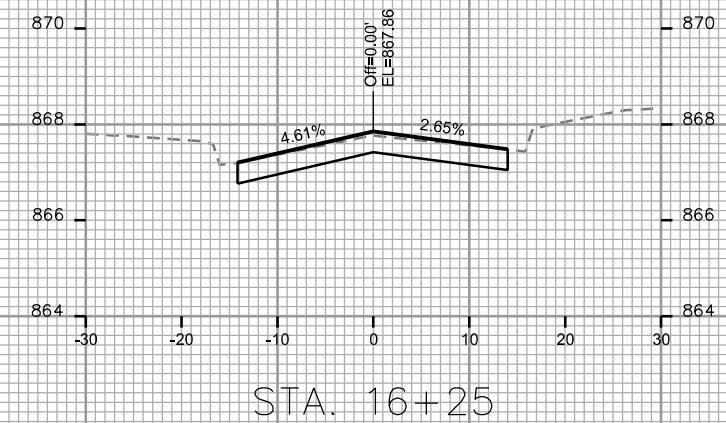
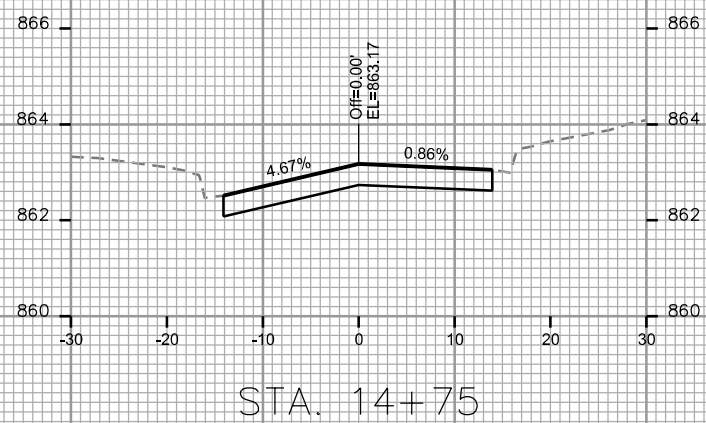
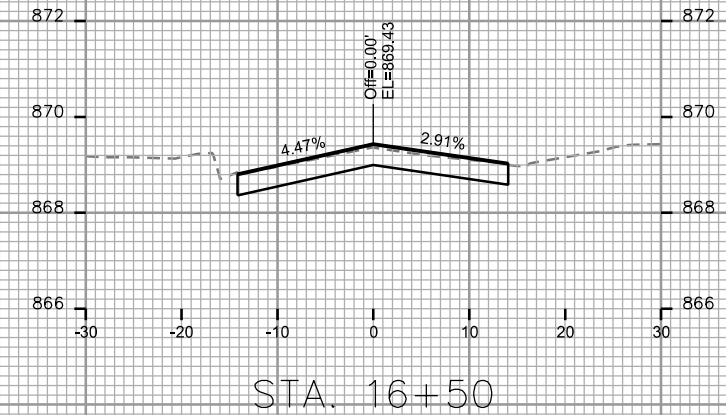
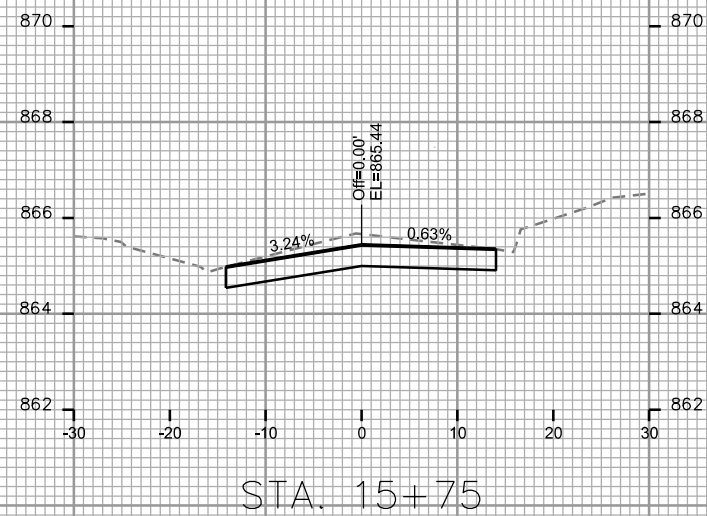
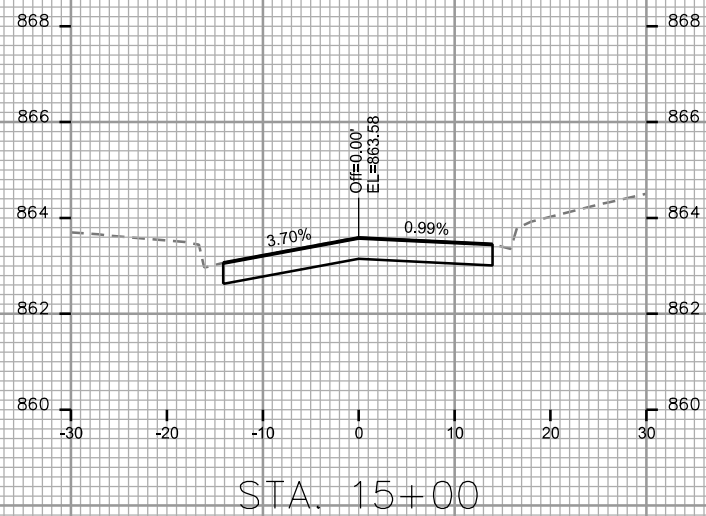
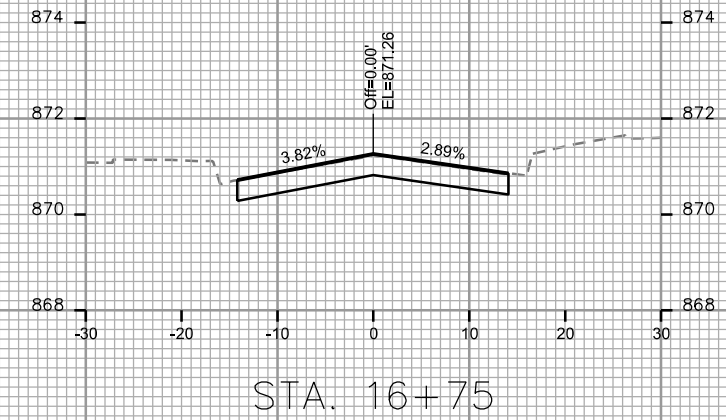
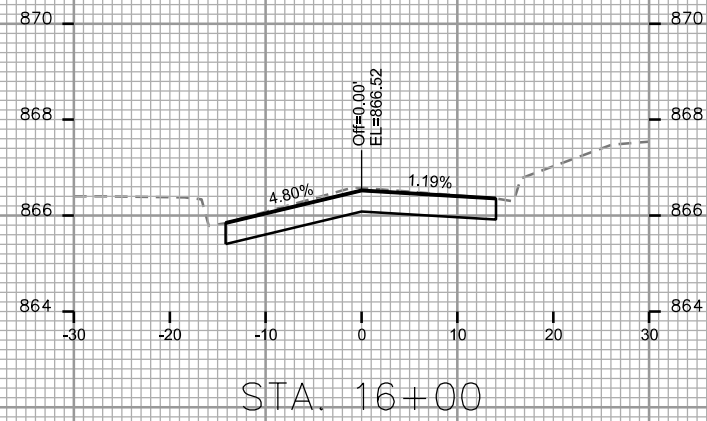
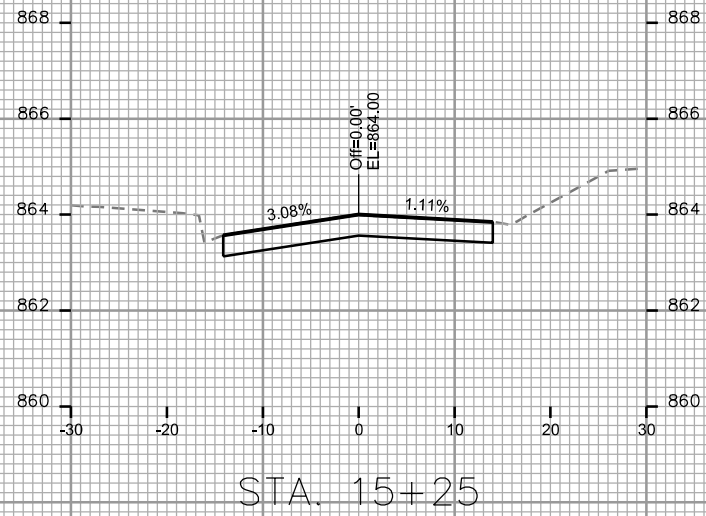
CITY OF MADISON

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CROSS SECTIONS

LANGDON ST.

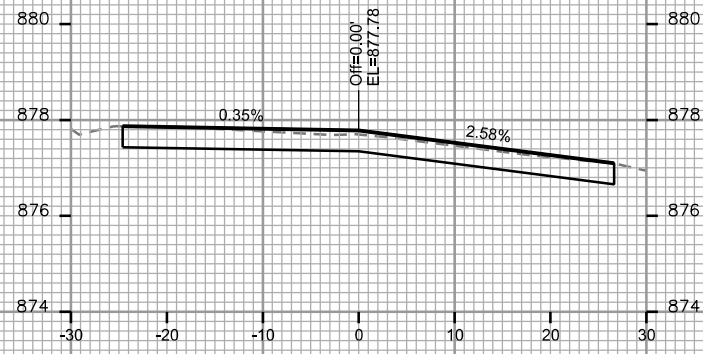
CITY OF MADISON

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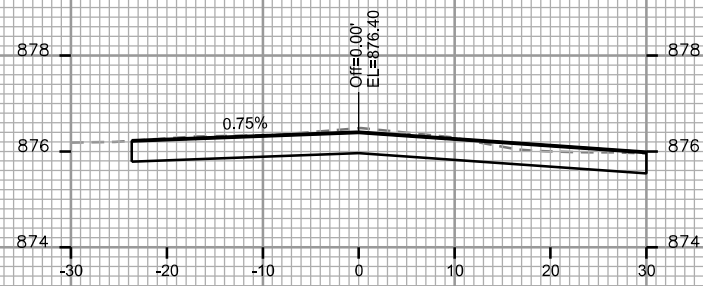
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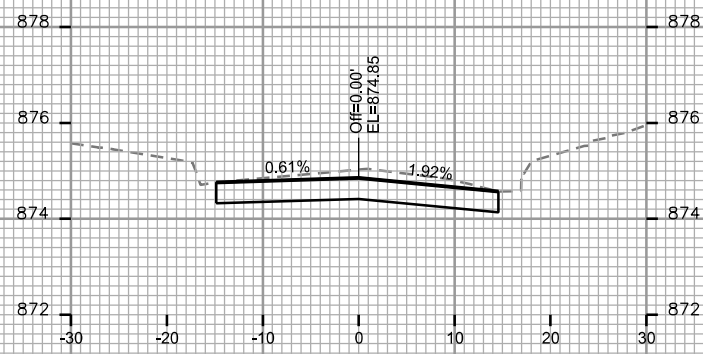
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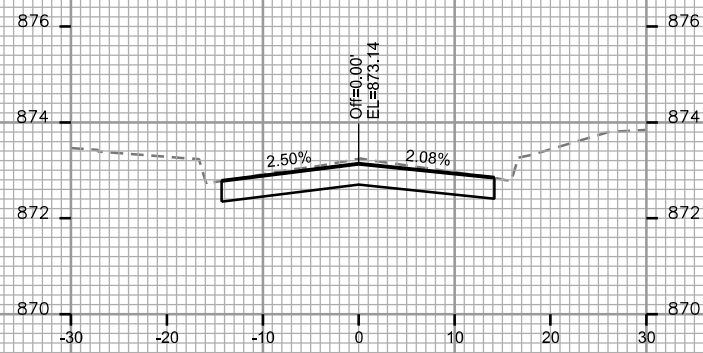
STA. 17+75



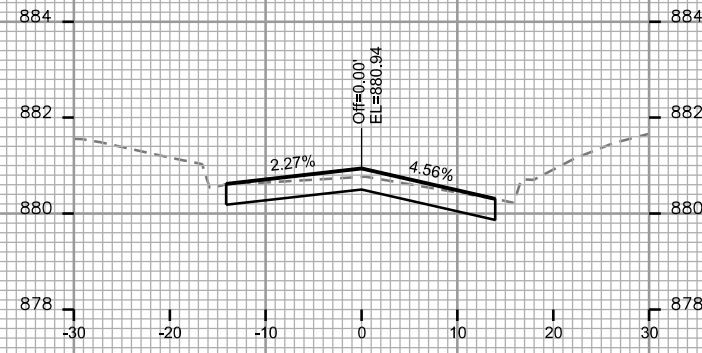
STA. 17+50



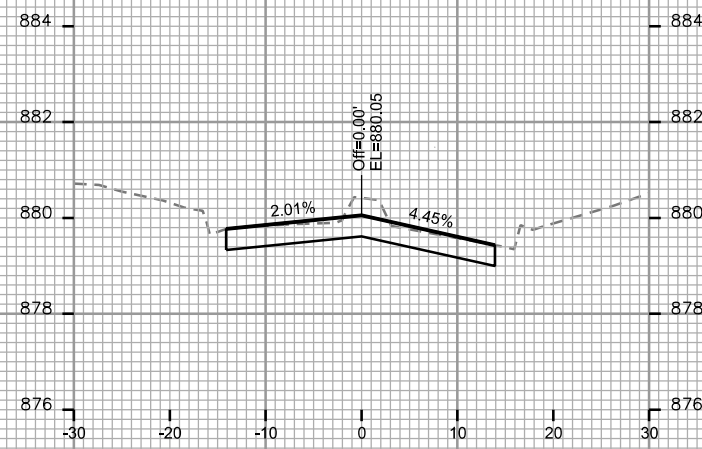
STA. 17+25



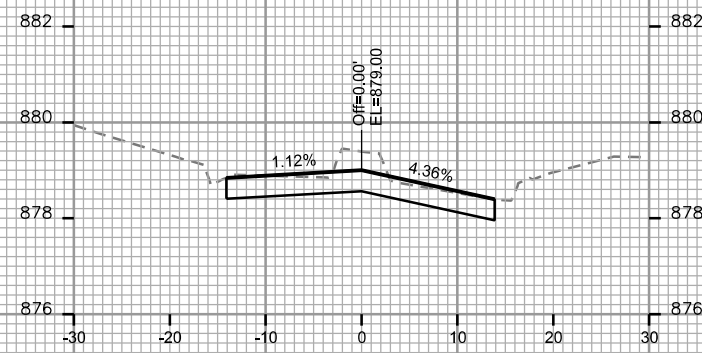
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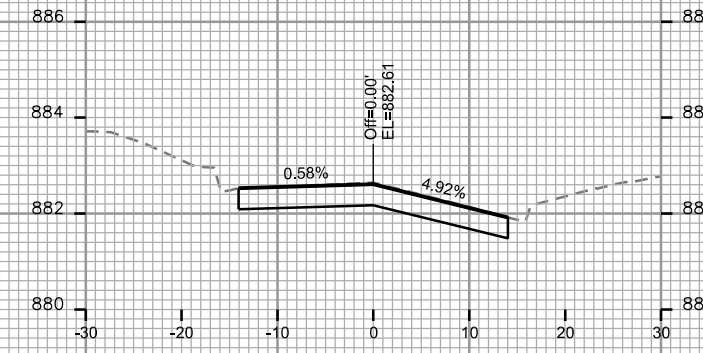
STA. 18+50



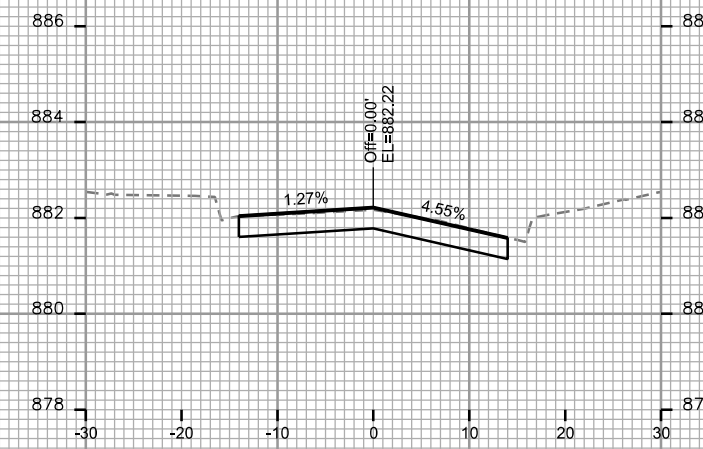
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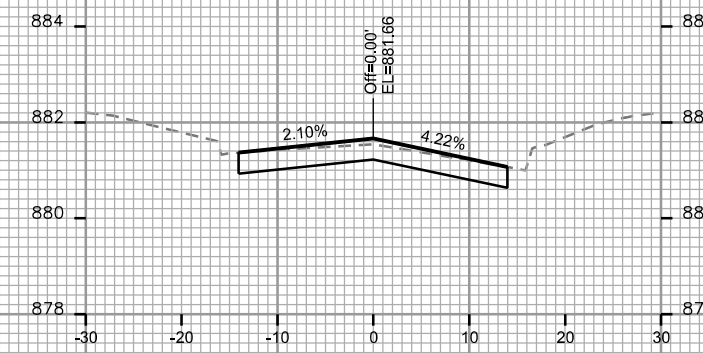
STA. 18+00



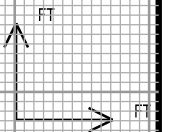
STA. 19+25



STA. 19+00



STA. 18+75



CROSS SECTIONS

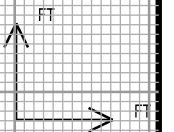
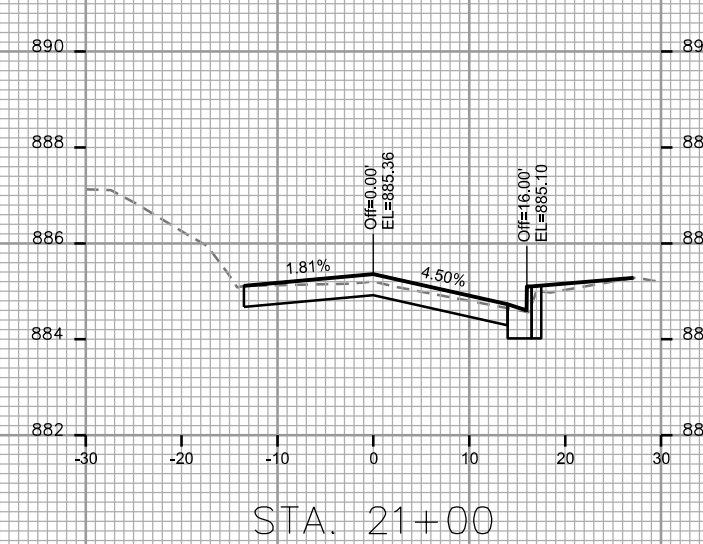
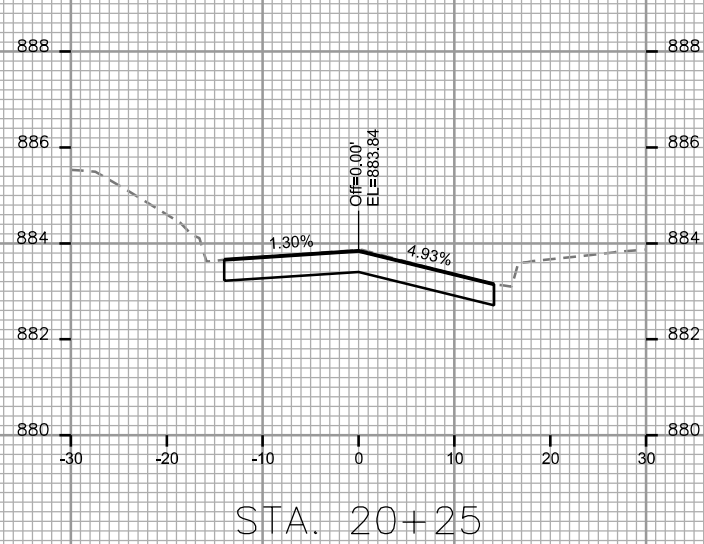
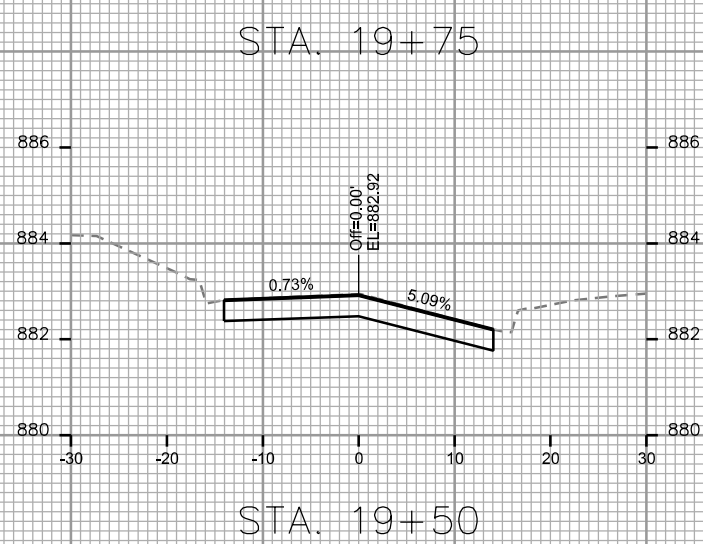
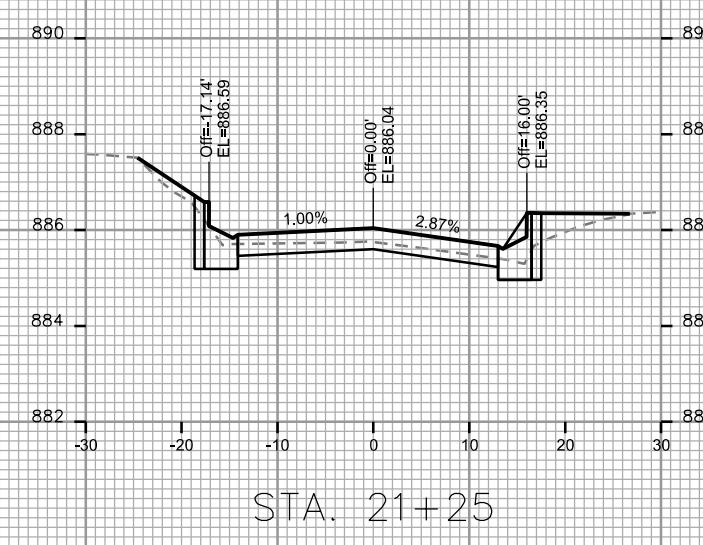
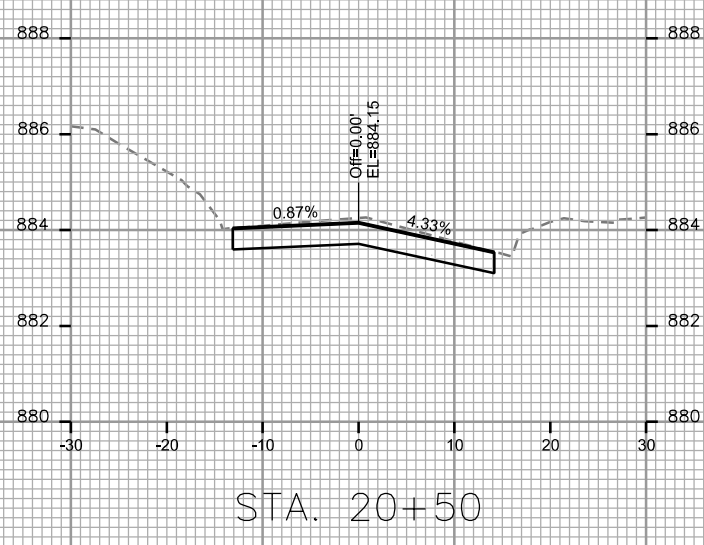
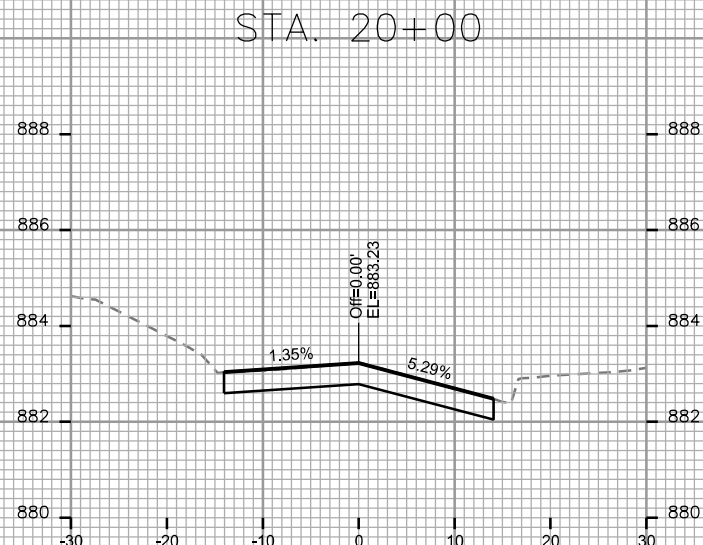
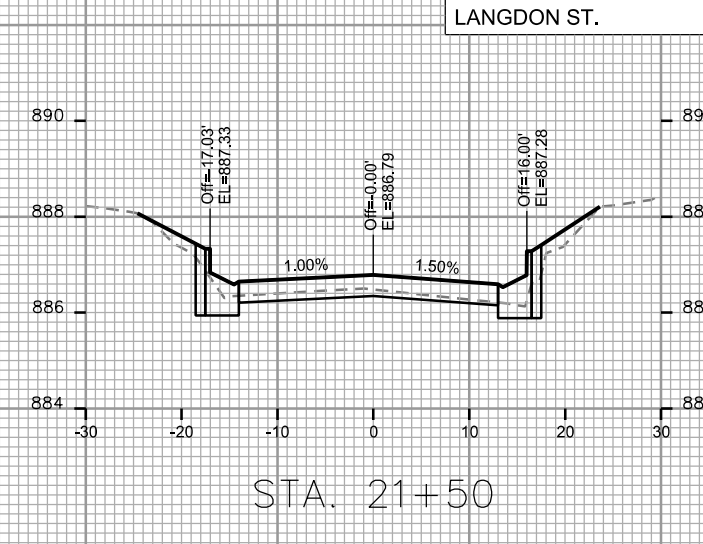
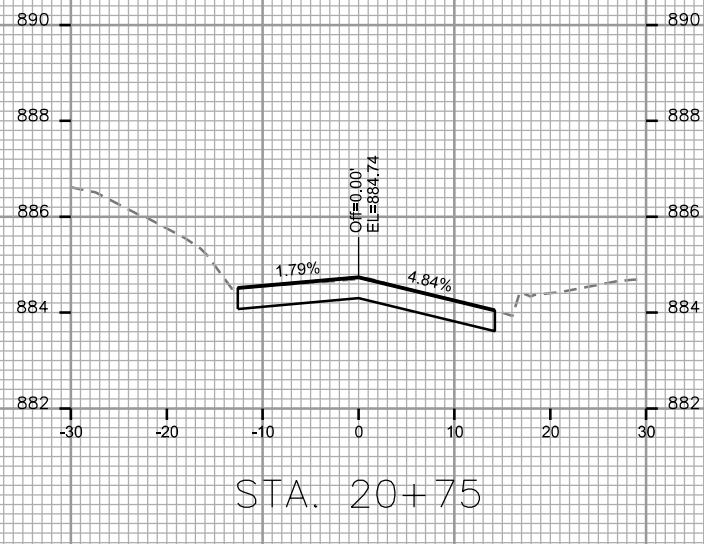
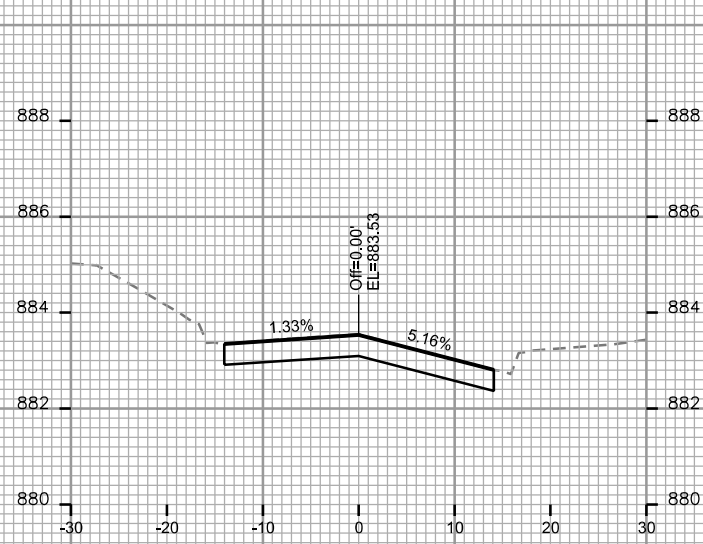
LANGDON ST. CITY OF MADISON

PLOT SCALE:

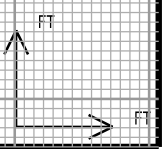
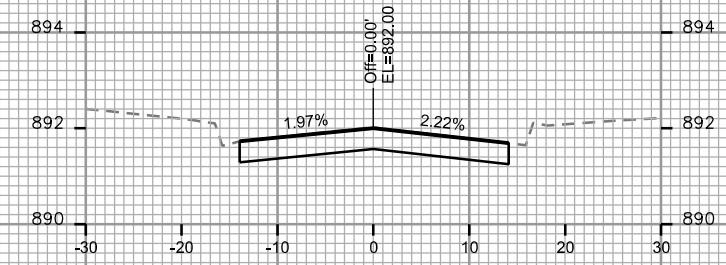
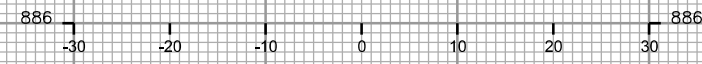
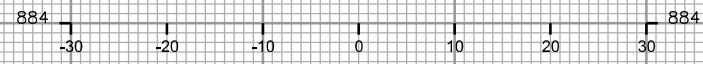
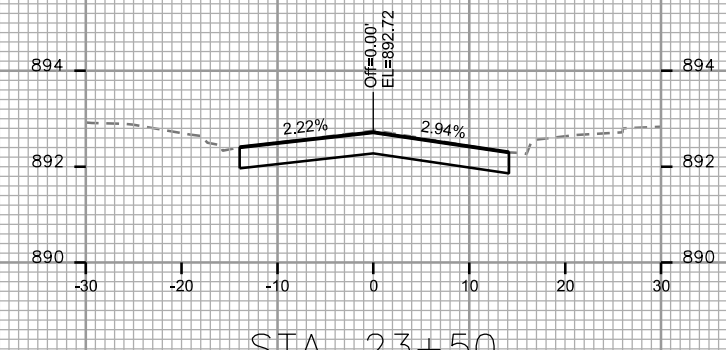
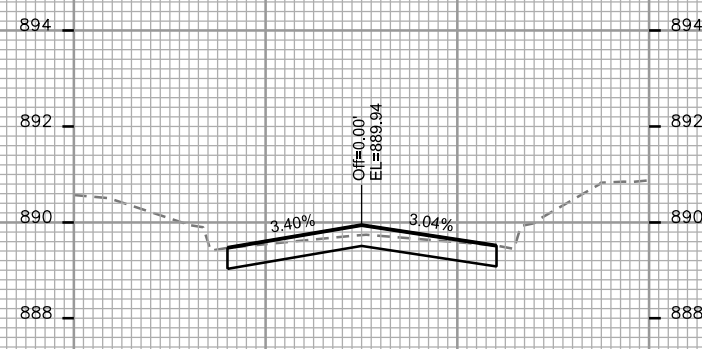
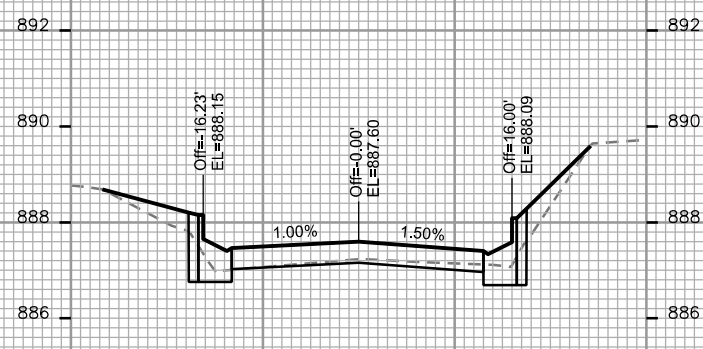
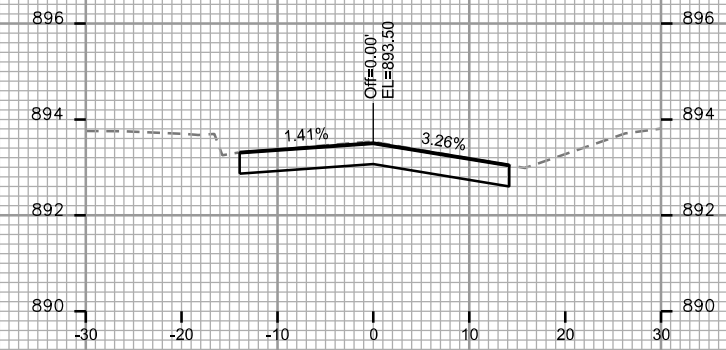
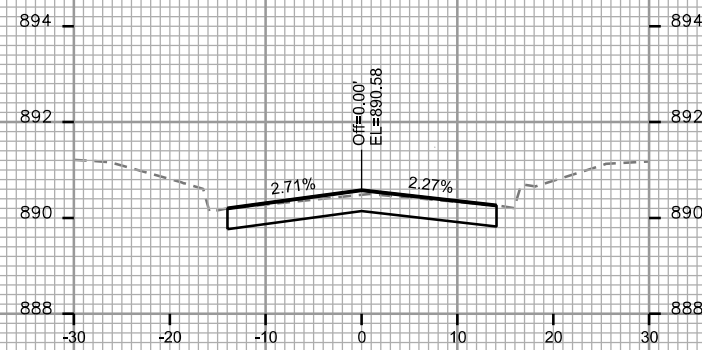
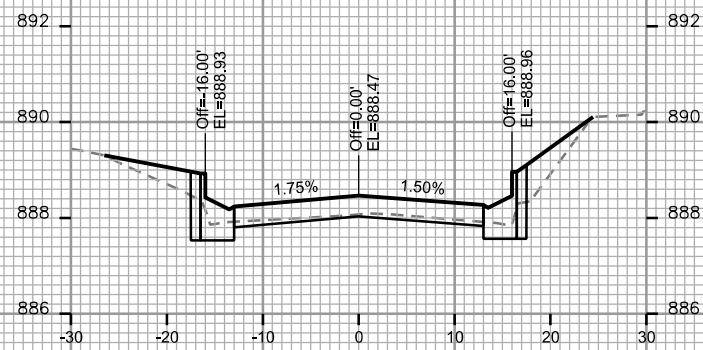
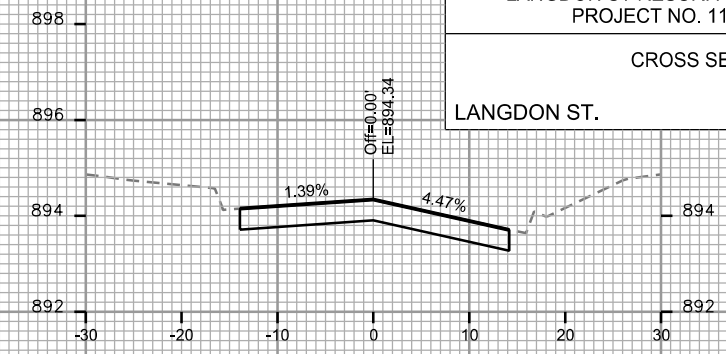
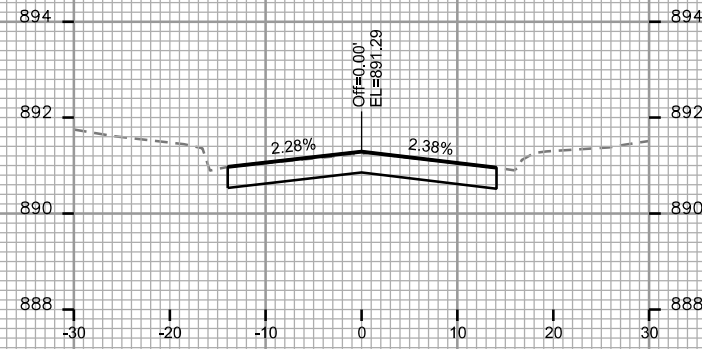
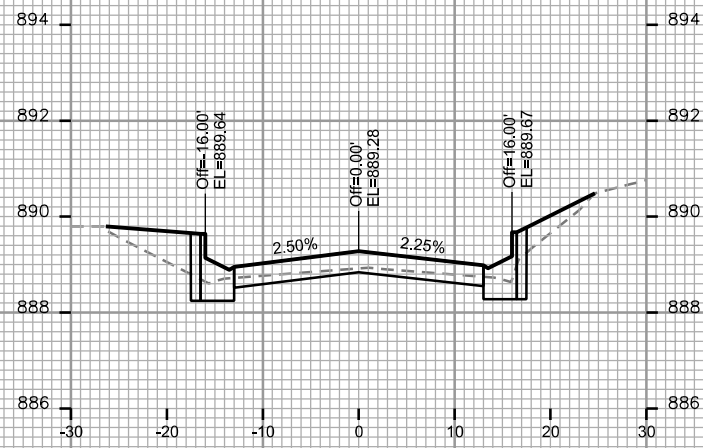
PLOT NAME:

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PLOT SCALE:

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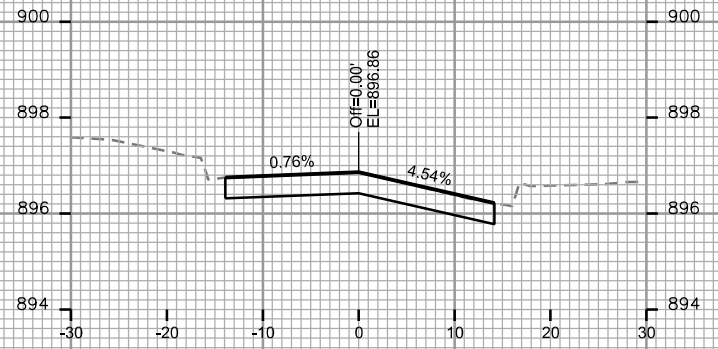
CROSS SECTIONS  
LANGDON ST. CITY OF MADISON

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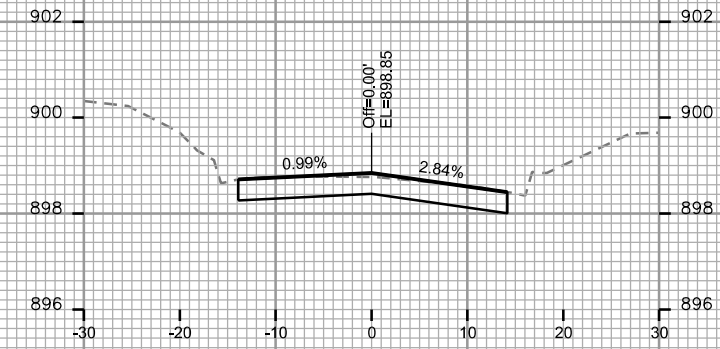
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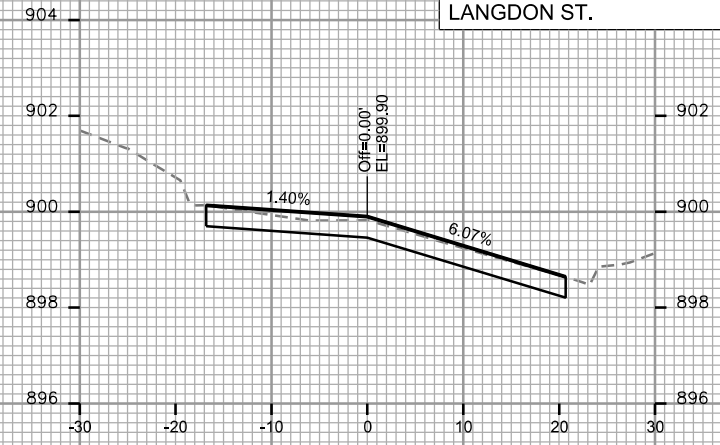
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 24+75



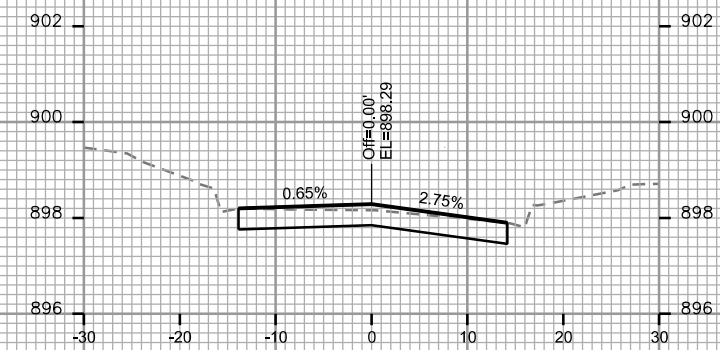
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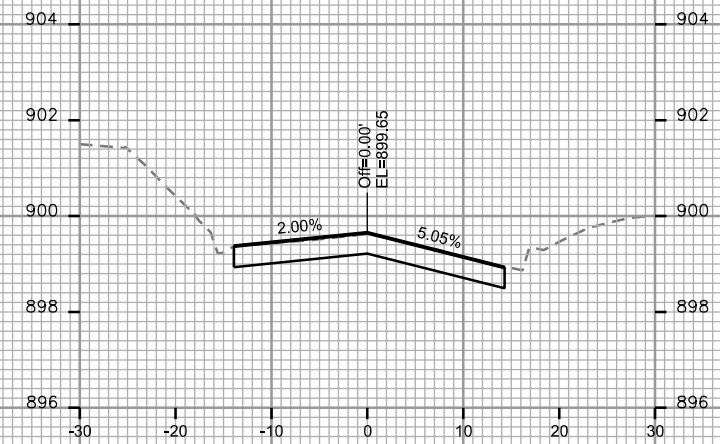
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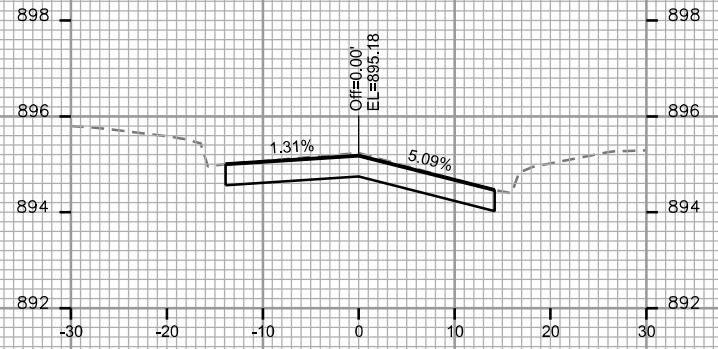
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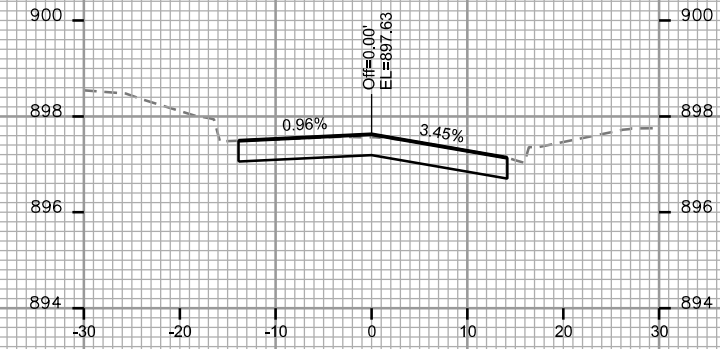
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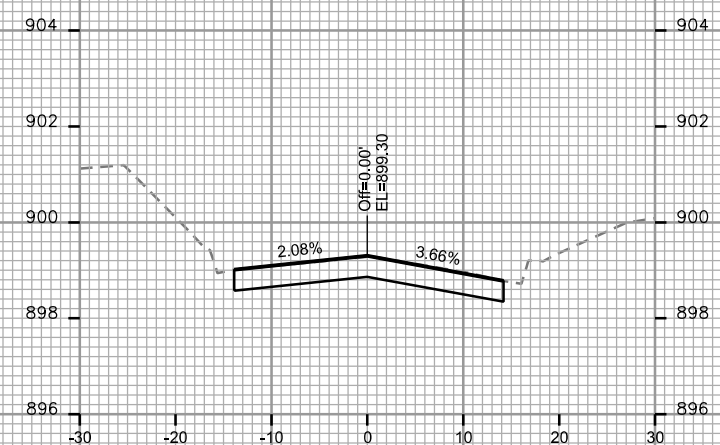
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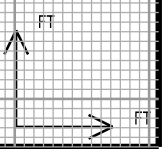
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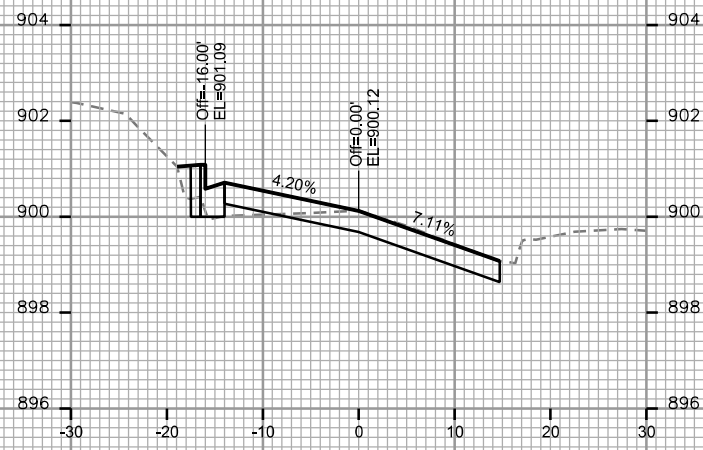
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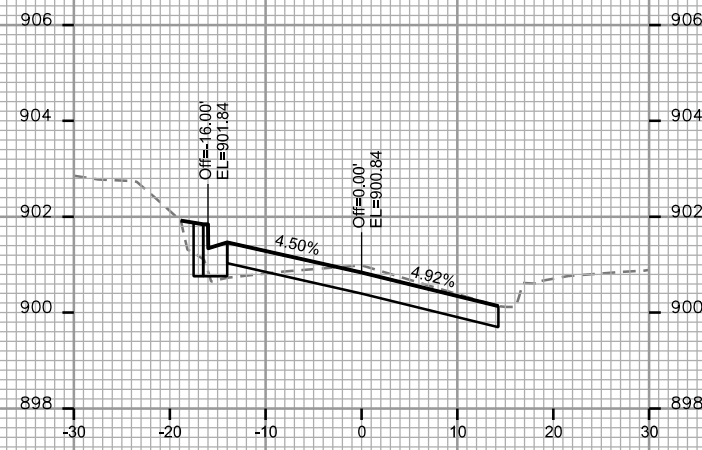
CROSS SECTIONS

LANGDON ST.

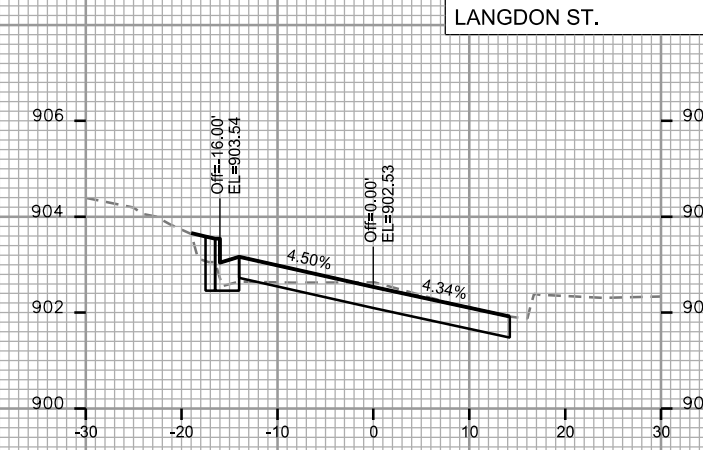
CITY OF MADISON



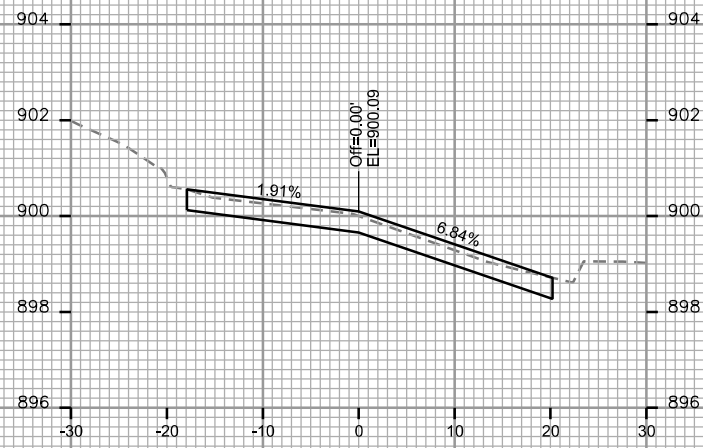
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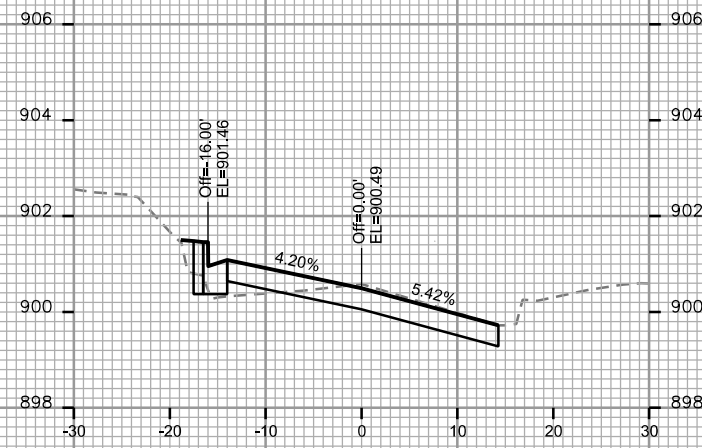
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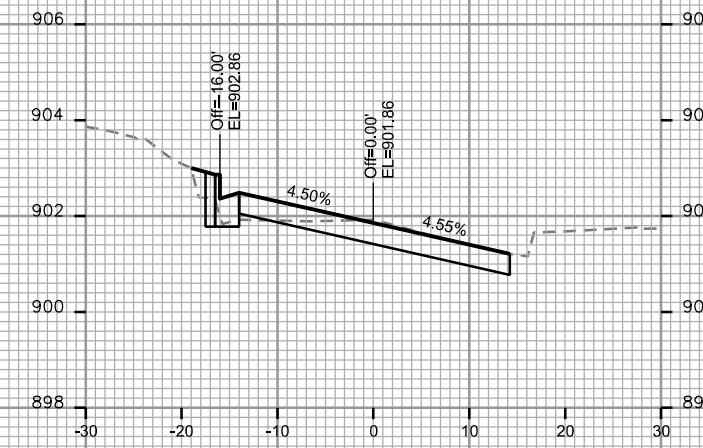
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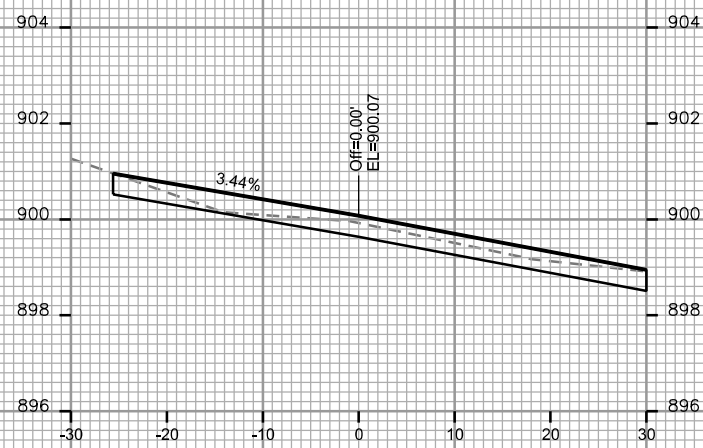
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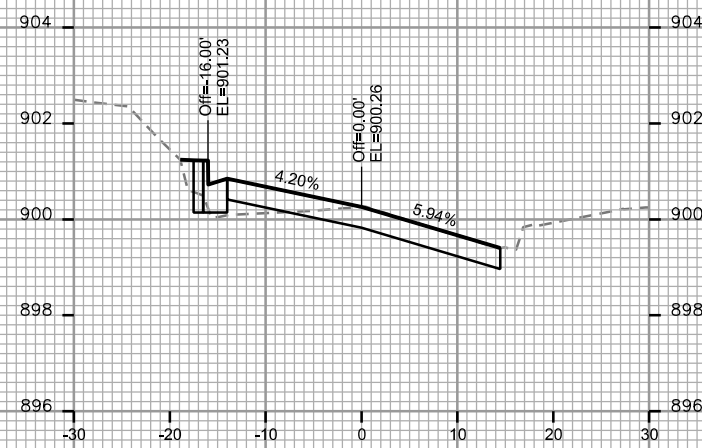
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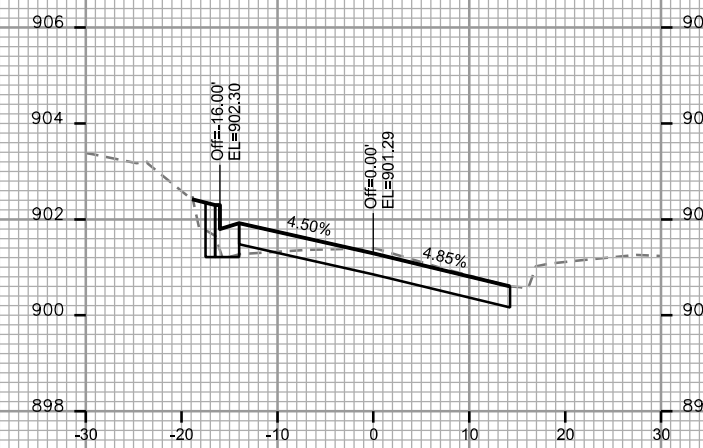
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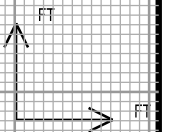
STA. 26+50



STA. 27+25



STA. 28+00



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LANGDON ST.

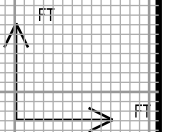
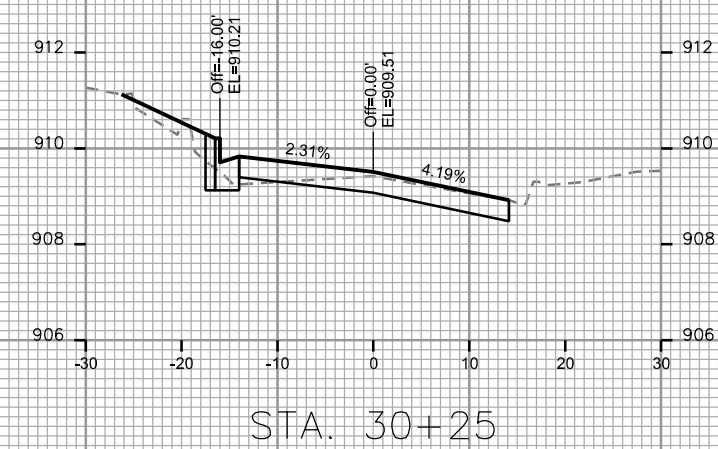
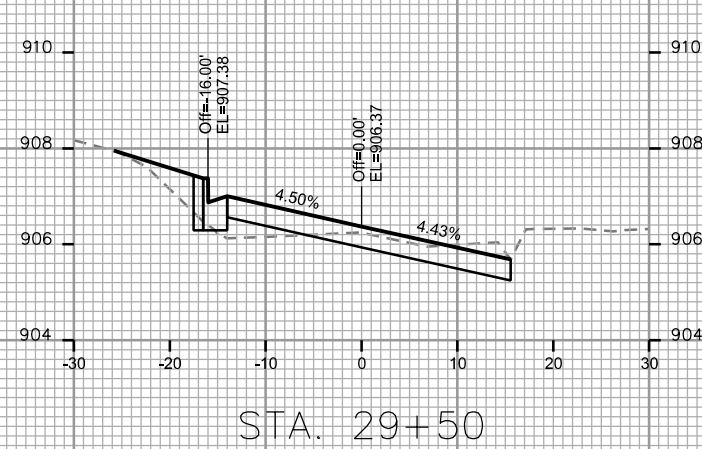
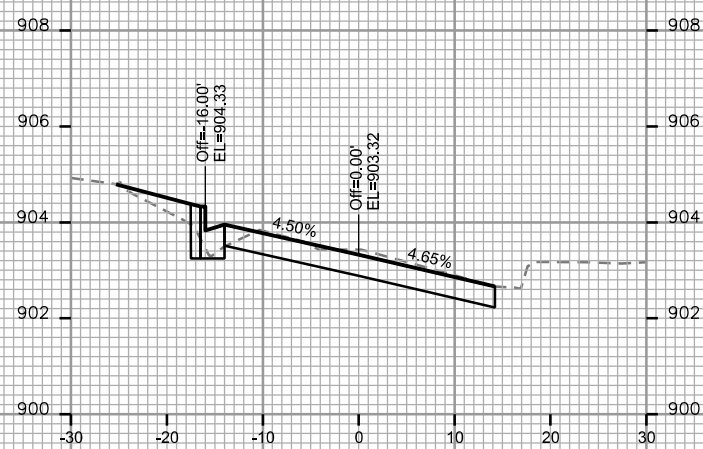
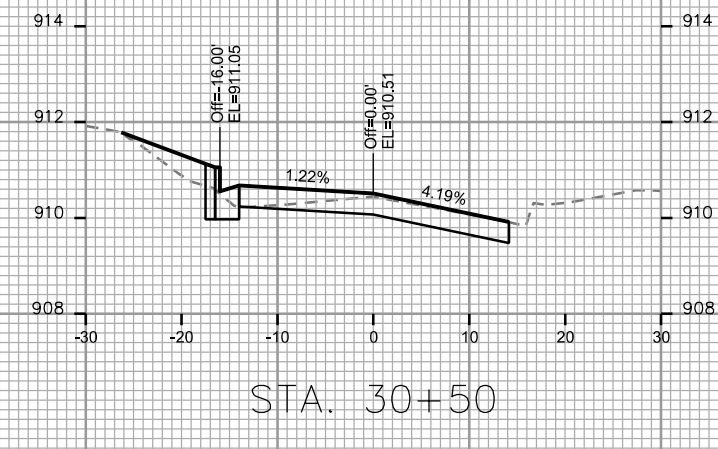
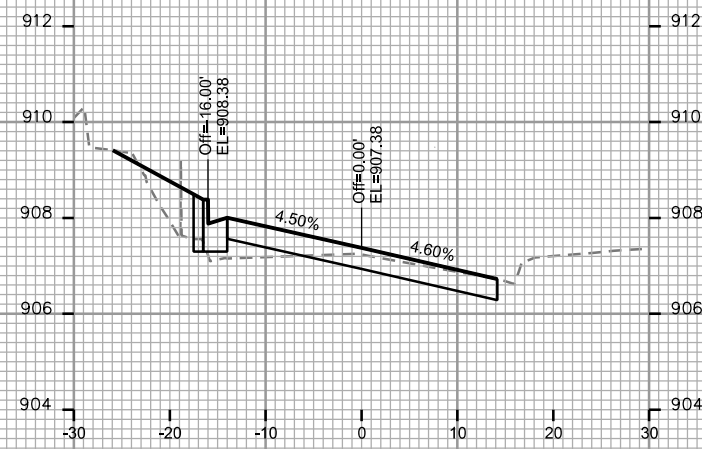
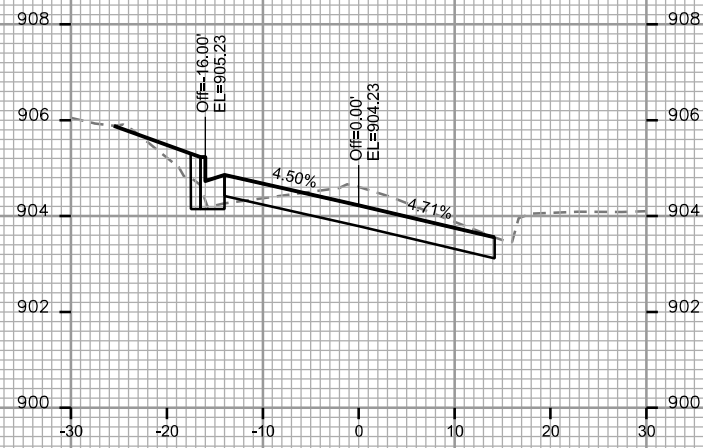
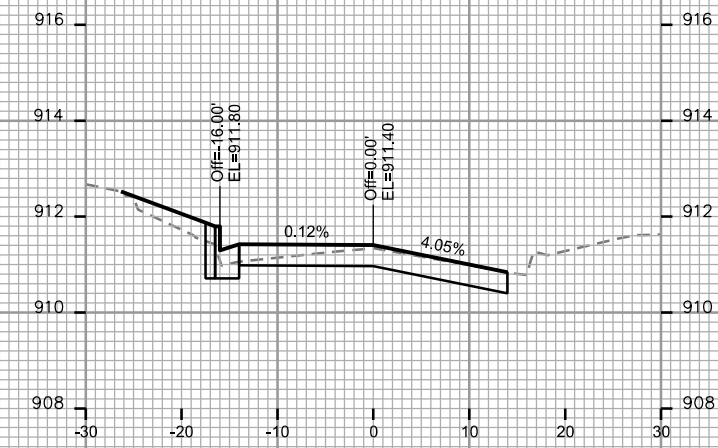
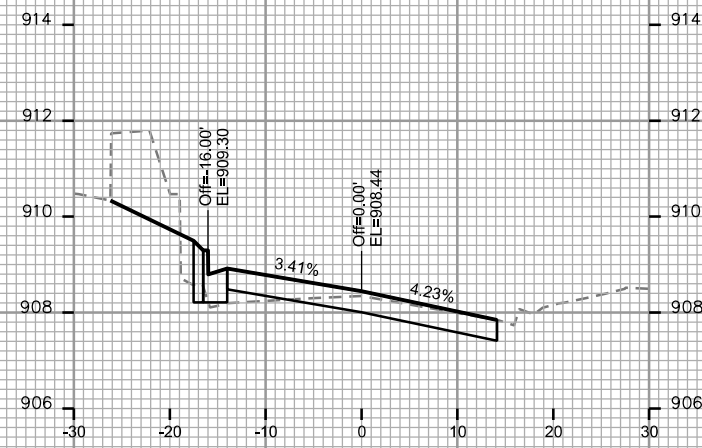
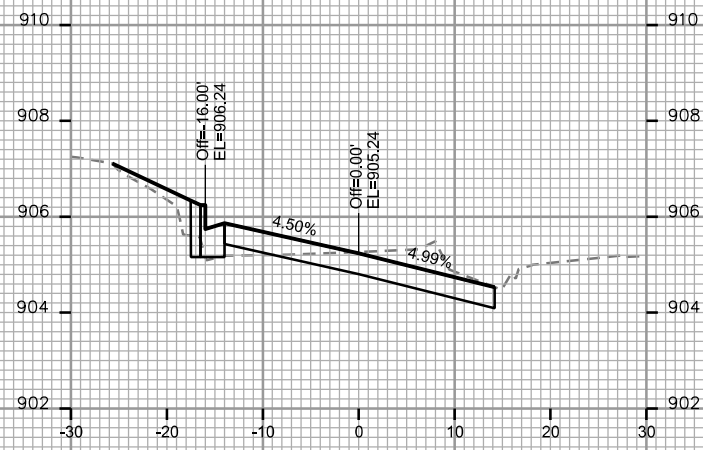
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