

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

## PLAN OF PROPOSED IMPROVEMENT

### FREY STREET AND SAWYER TERRACE ASSESSMENT DISTRICT - 2018

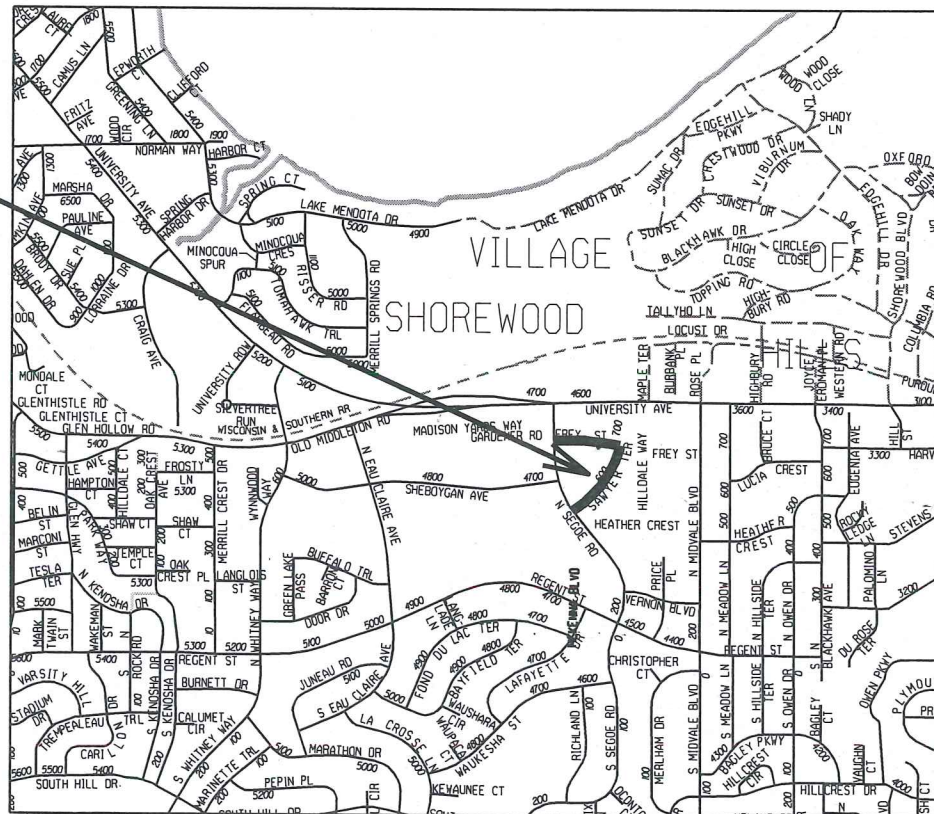
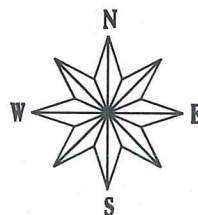
CITY PROJECT NO. 11722

CONTRACT NO. 8114

**INDEX OF SHEETS**

SHEET NO.	TITLE
1	TYPICAL SECTION
DI	EROSION CONTROL PLANS
EC1-EC4	STREET PLAN & PROFILES
PI-P4	SEWERS PLAN & PROFILES
U1-U4	SEWER SCHEDULES
U5-U6	WATER PLAN & PROFILES
W1-W4	EXISTING WATER SYSTEM IMPACT PLANS
W5-W6	WATER ESTIMATE OF MATERIALS
W7	FREY-SAWYER INTERSECTION CLOSURE
TC1-TC1A	FREY STREET CLOSURE
TC2-TC2A	SAWYER TERRACE CLOSURE
TC3	FREY STREET CROSS SECTIONS
X1-X5	SAWYER TERRACE CROSS SECTIONS
X6-X12	

PROJECT LOCATION



**CONVENTIONAL SIGNS**  
FIELD VERIFY ALL UTILITY LOCATIONS

GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	⊕

**NOTES:**

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% 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%

**EARTH WORK SUMMARY:**

EXCAVATION CUT (MEASURED PLAN QUANTITY).....	2,300 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT.....	400 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT.....	2,700 C.Y.

PUBLIC IMPROVEMENT PROJECT APPROVED

APRIL 10, 2018

BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

*[Signature]* 4/20/18  
City Engineer Date

STREET  
DESIGNED BY:



SANITARY SEWER  
DESIGNED BY:



WATER MAIN  
DESIGNED BY:



STORM SEWER  
DESIGNED BY:



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

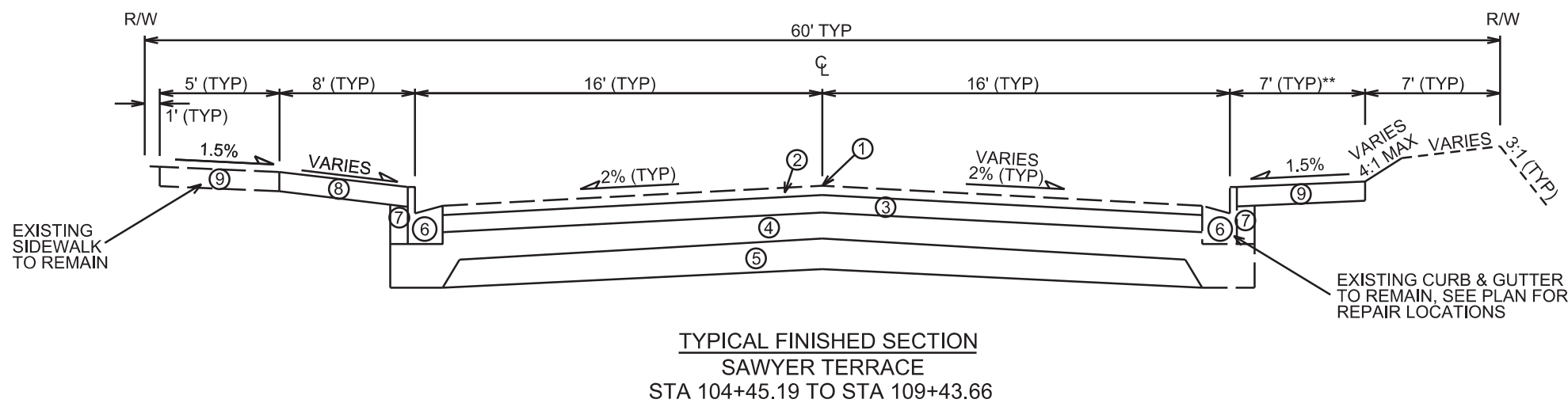
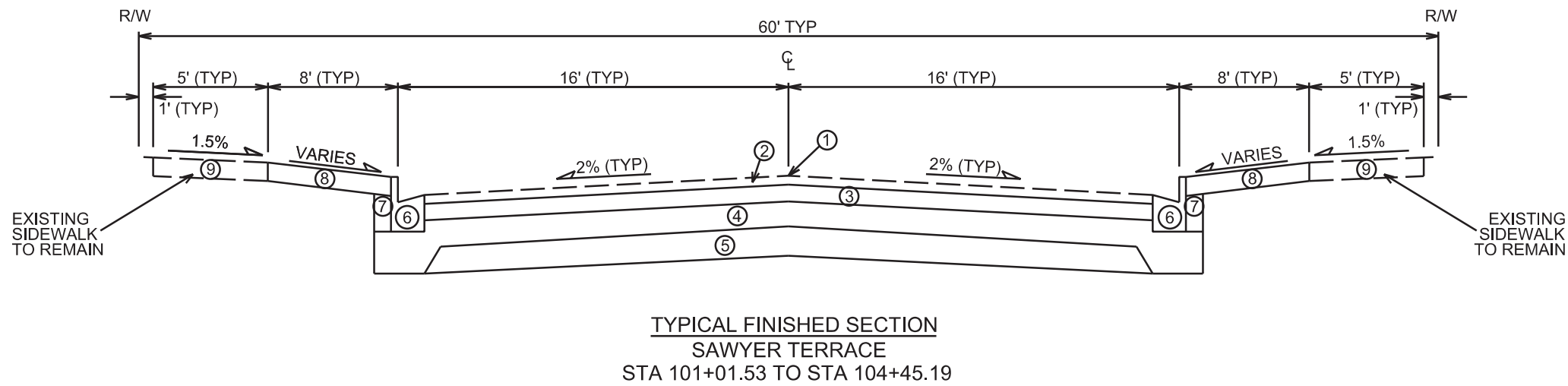
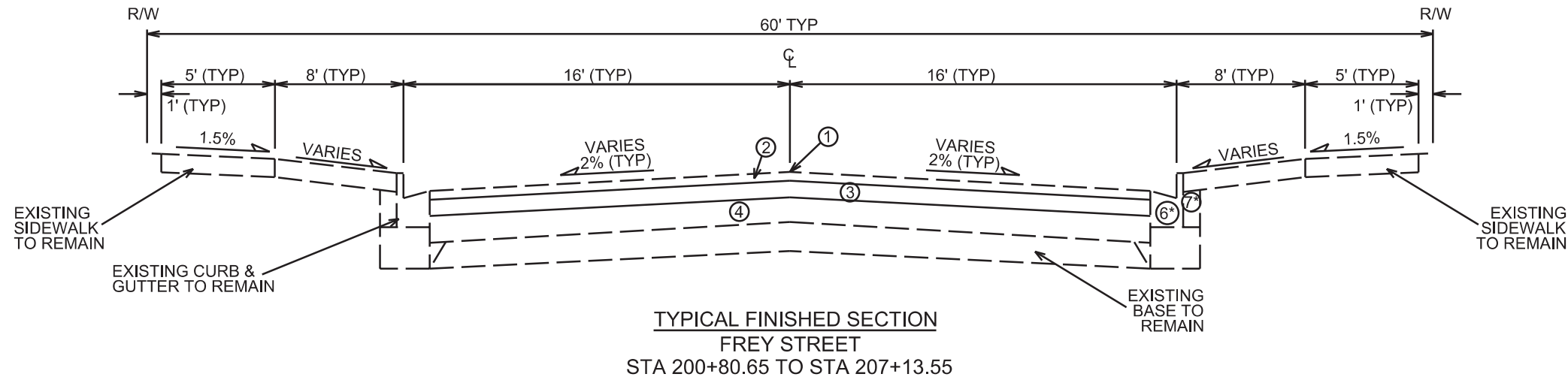


REVISION 6/18/18-AJZ

- ① POINT REFERRED TO ON PROFILE
- ② 2" BITUMINOUS UPPER LAYER  
4 LT 58-28 S TO BE BY OTHERS
- ③ 2 1/2" BITUMINOUS LOWER LAYER, 3 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED STONE
- ⑤ 6" GRADATION 1 CRUSHED STONE
- ⑥ TYPE 'A' CONCRETE CURB & GUTTER
- ⑦ FILL, INCIDENTAL
- ⑧ 6" TOPSOIL, TERRACE SEED AND EROSION MAT
- ⑨ 5" CONCRETE SIDEWALK,  
REPLACE AS NOTED ON PLANS

NOTE:

- SEE PLAN/PROFILE SHEETS FOR TOP OF CURB ELEVATIONS.
- TYPICAL SECTION NOT TO SCALE.
- \*INSTALL NEW CURB & GUTTER BEGINNING AT STA 203+90.04 RT TO SAWYER TERRACE
- \*\*EX. 7' SIDEWALK TO REMAIN BEGINNING AT STA 106+93.62 RT TO FREY STREET

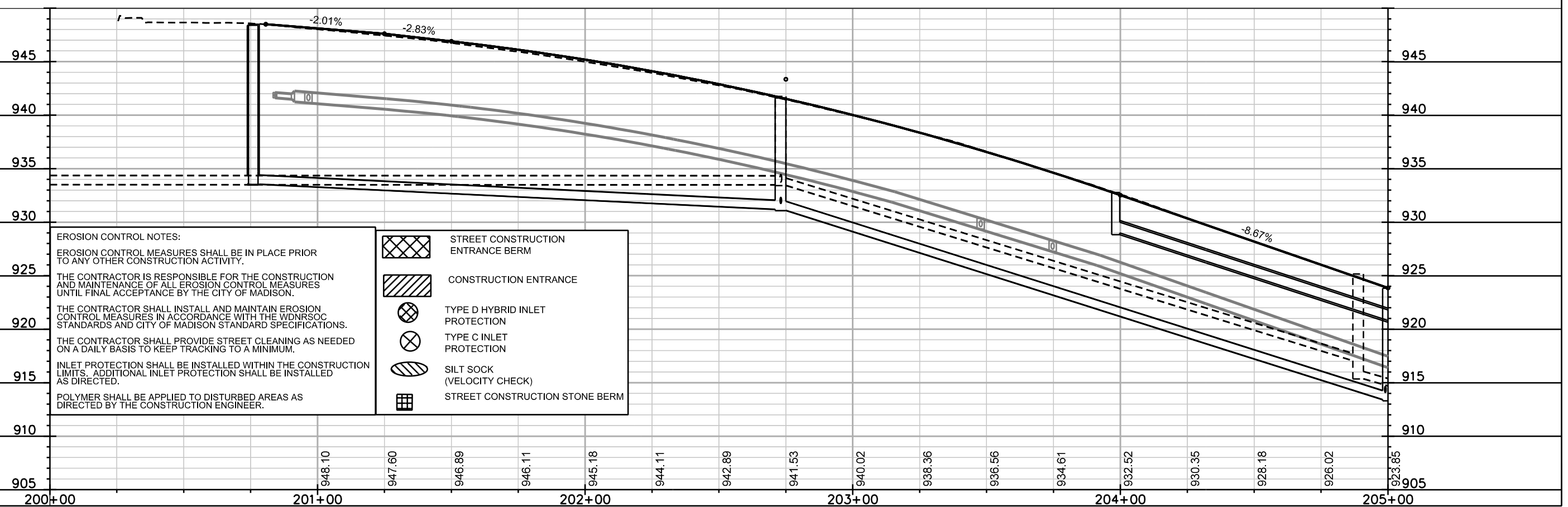
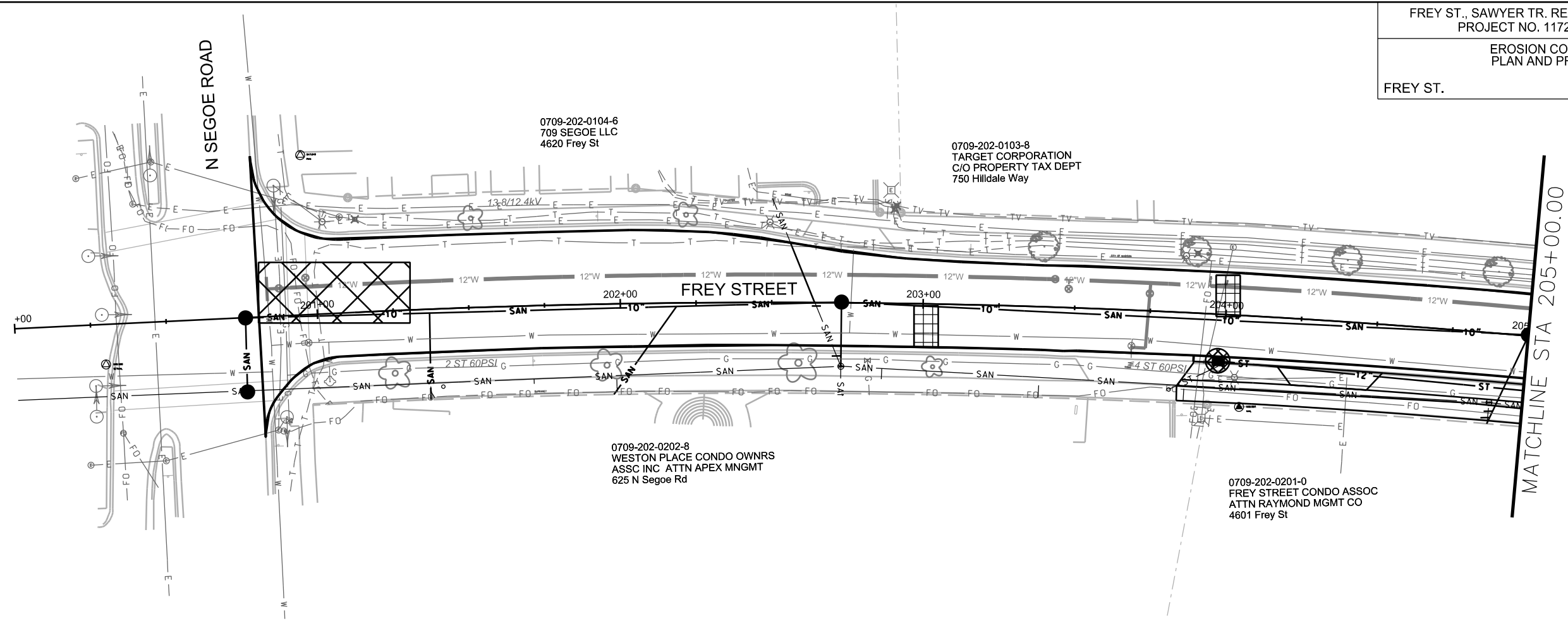


PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**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 WIDNRSOC 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.

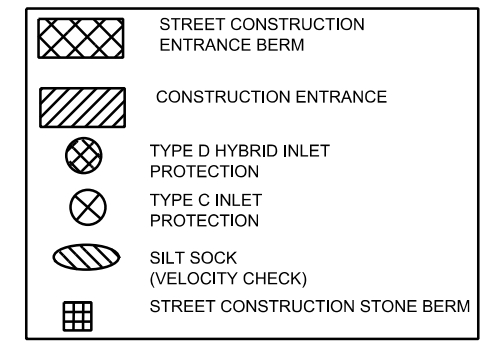
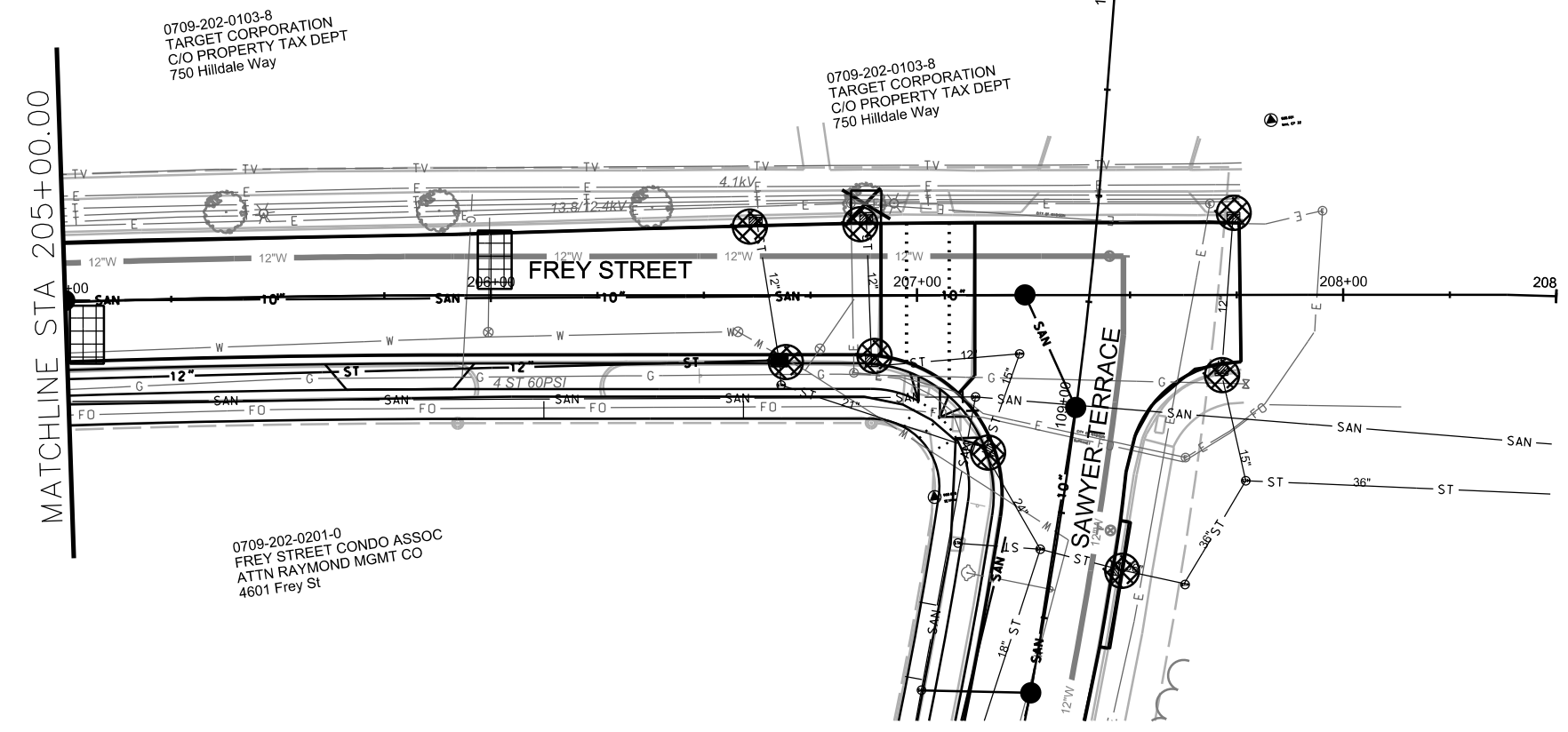
	STREET CONSTRUCTION ENTRANCE BERM
	CONSTRUCTION ENTRANCE
	TYPE D HYBRID INLET PROTECTION
	TYPE C INLET PROTECTION
	SILT SOCK (VELOCITY CHECK)
	STREET CONSTRUCTION STONE BERM

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

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

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

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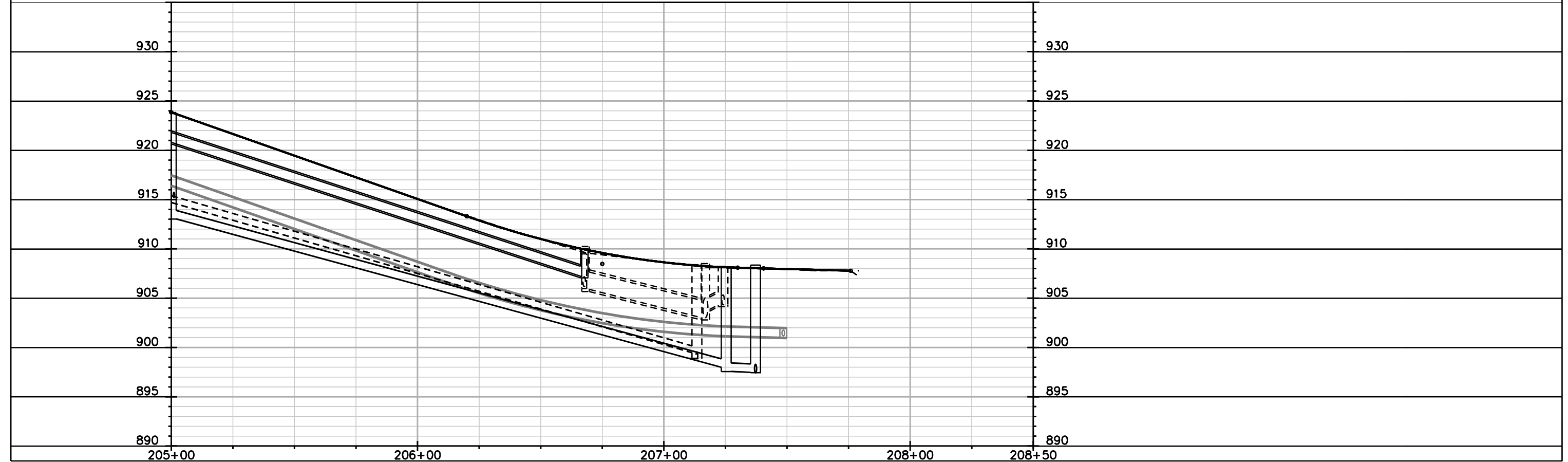
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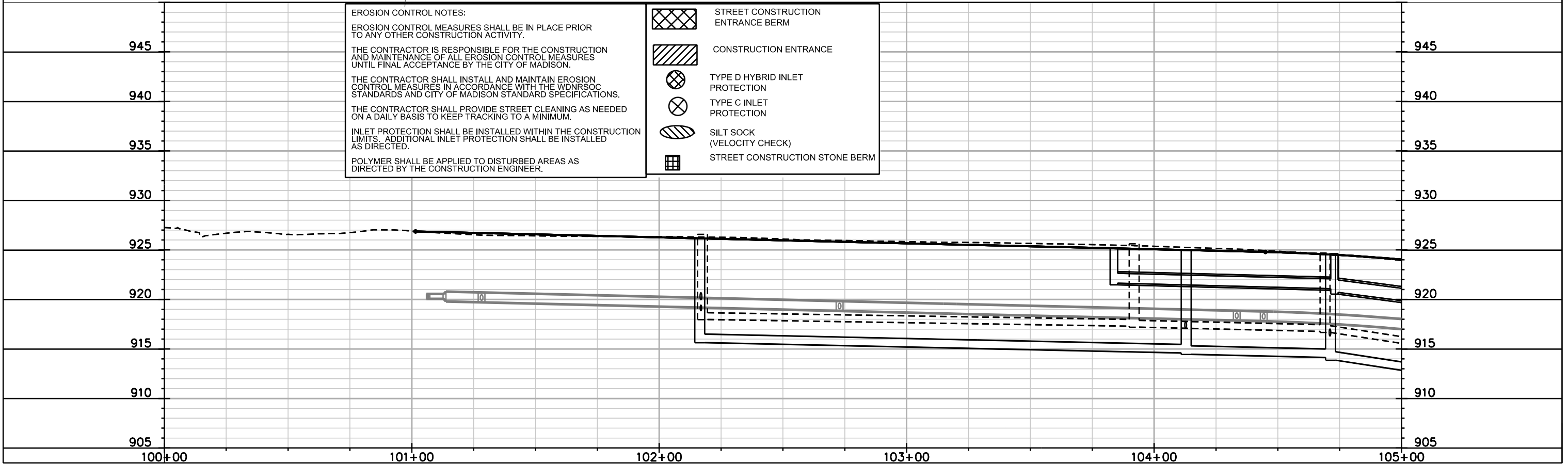
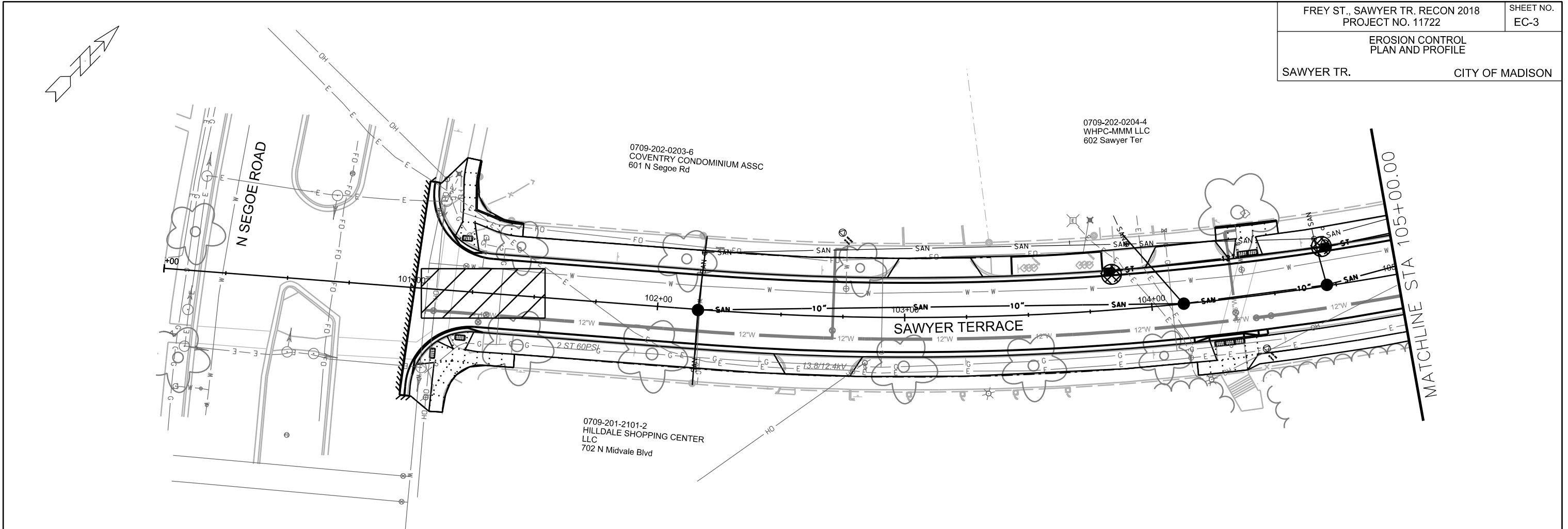


PLOT SCALE: \_\_\_\_\_

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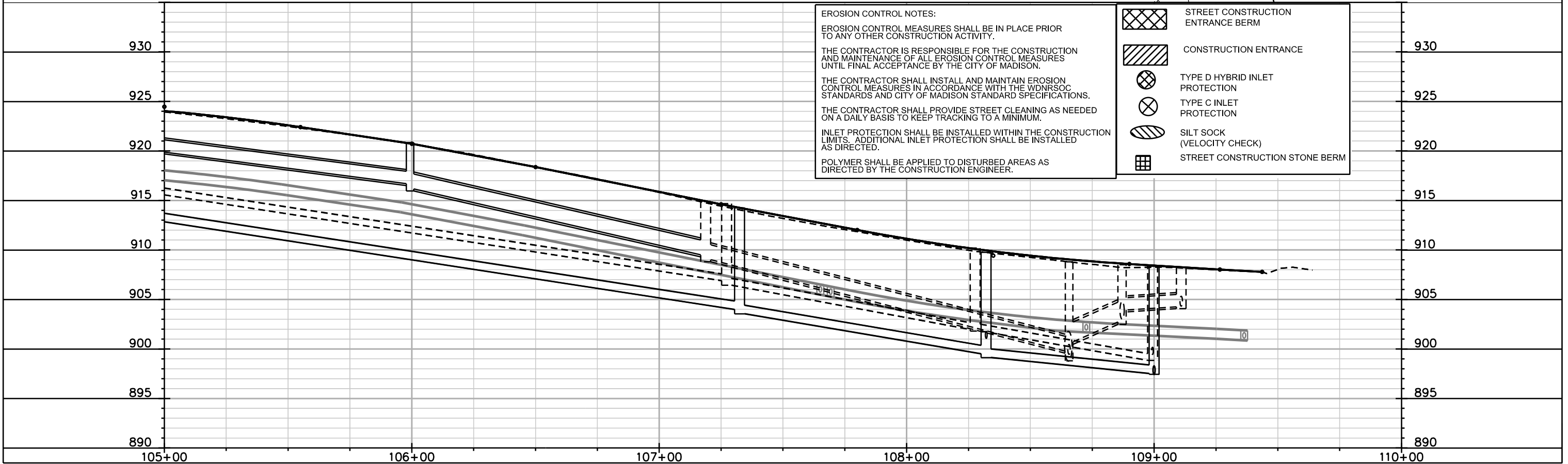
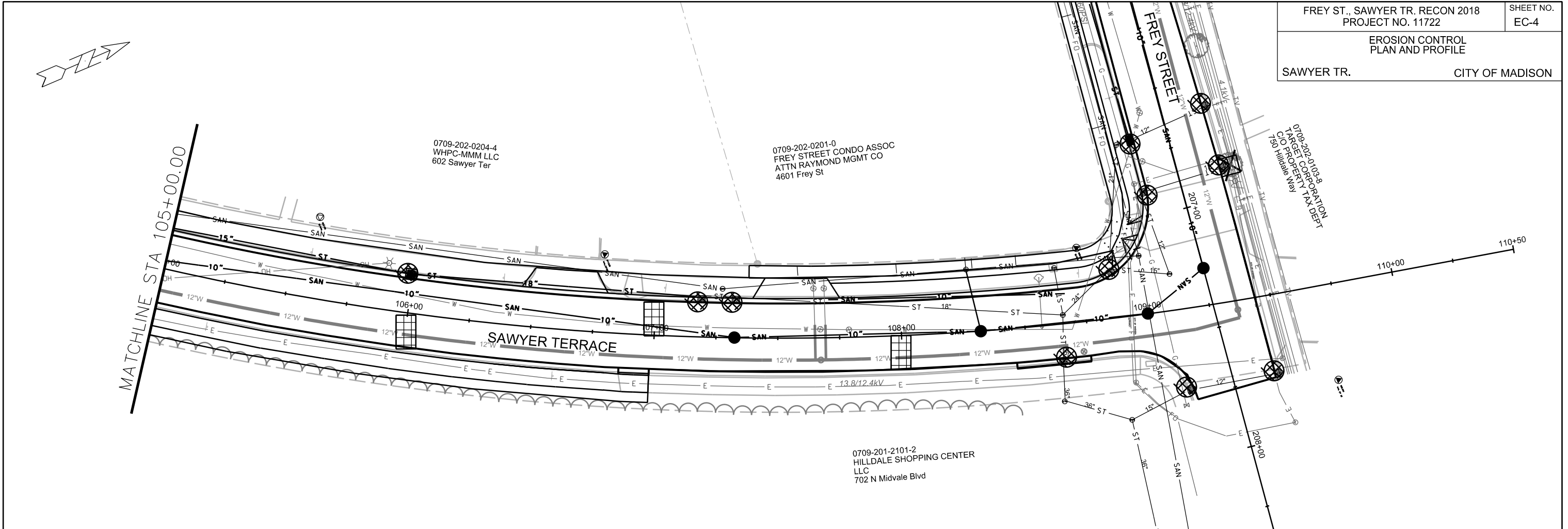
REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



EROSION CONTROL  
PLAN AND PROFILE

SAWYER TR. CITY OF MADISON

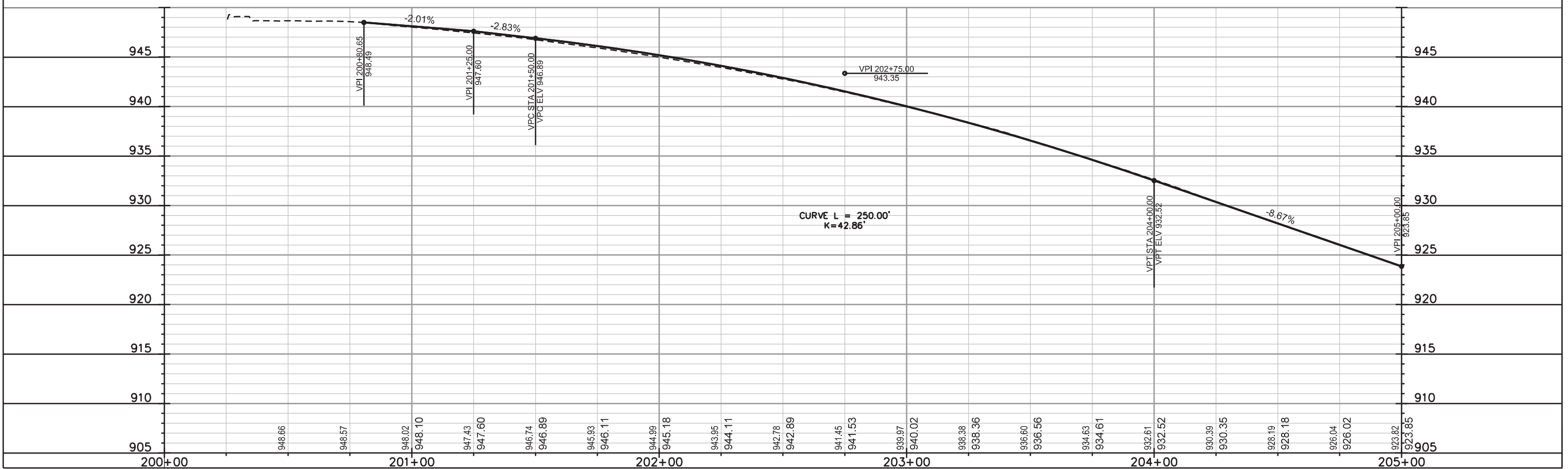
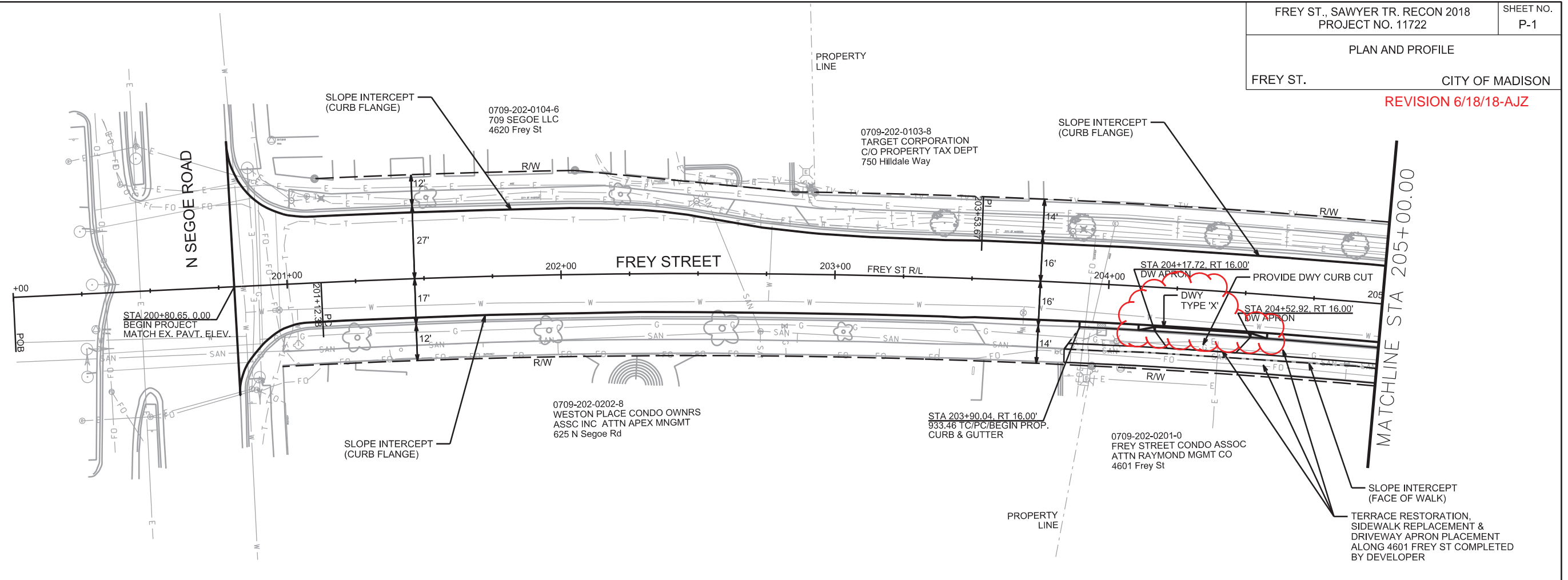


PLOT SCALE: \_\_\_\_\_

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

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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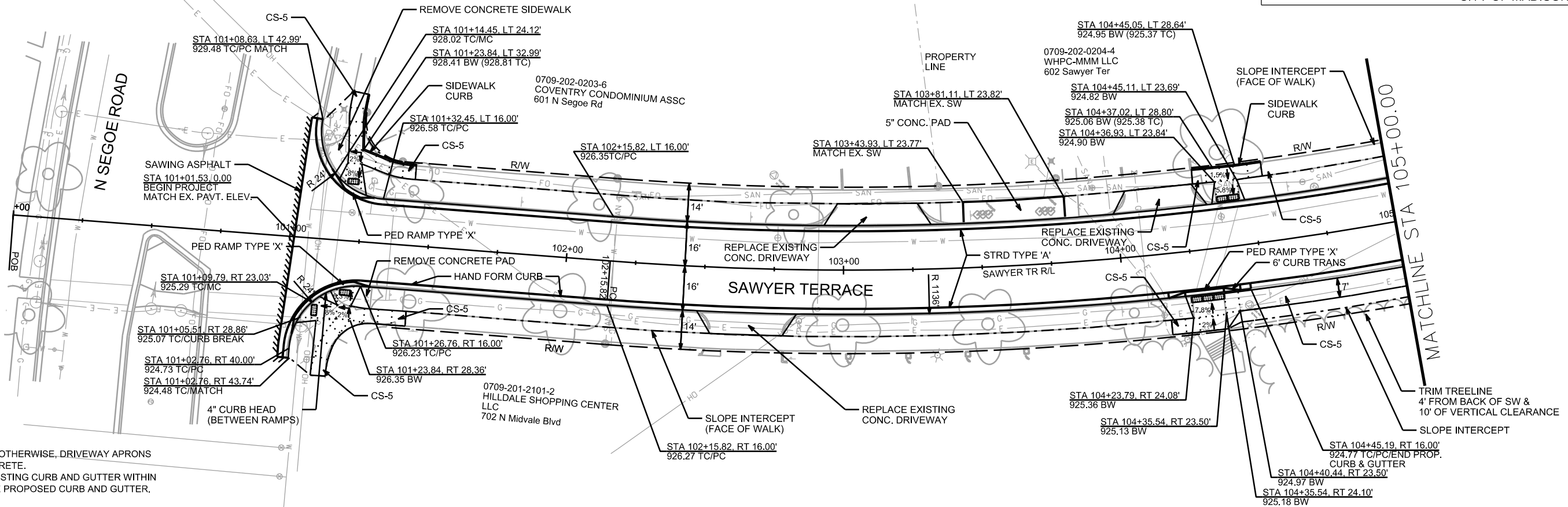
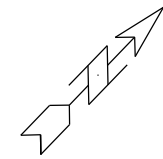




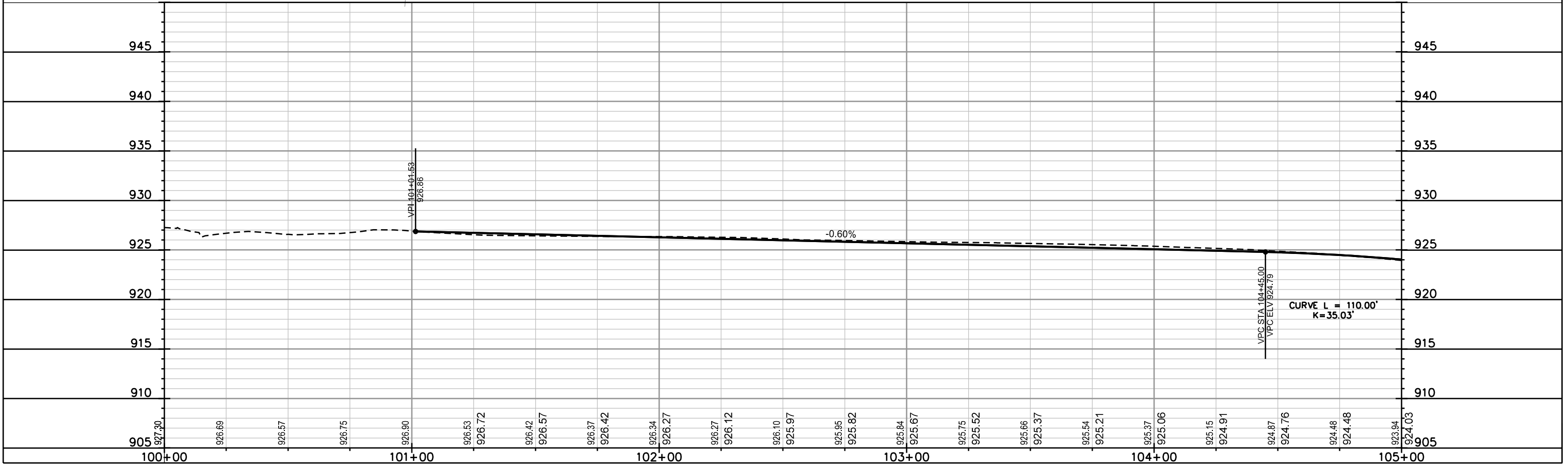


PLAN AND PROFILE

SAWYER TR. CITY OF MADISON



- NOTES:
1. UNLESS NOTED OTHERWISE, DRIVEWAY APRONS SHALL BE 7" CONCRETE.
  2. REMOVE ALL EXISTING CURB AND GUTTER WITHIN THE LIMITS OF THE PROPOSED CURB AND GUTTER.



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

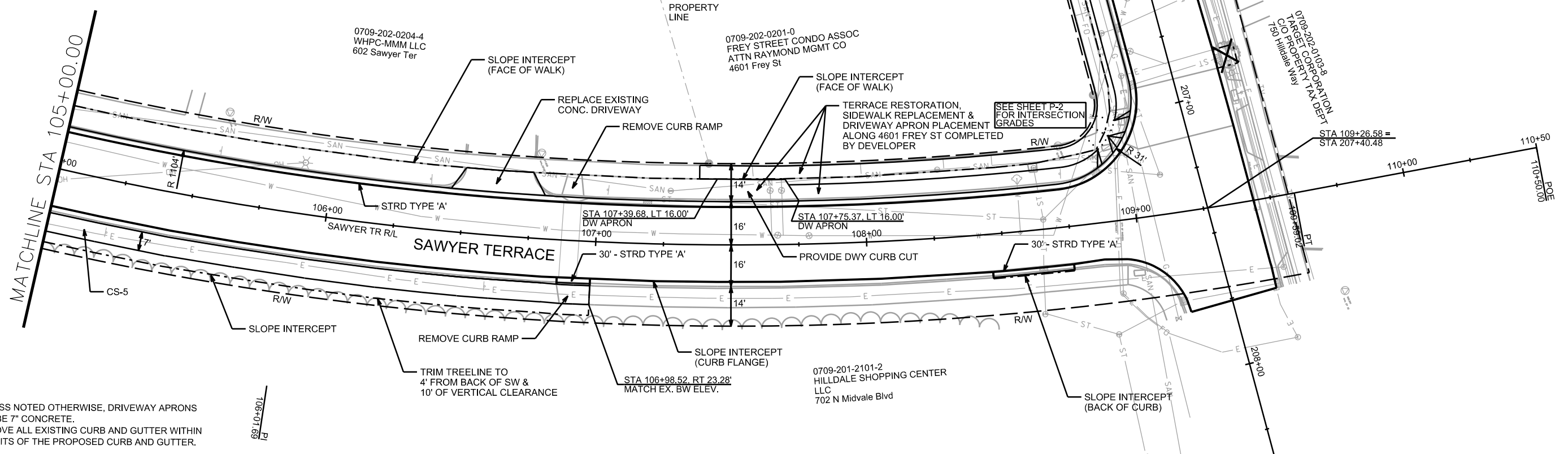
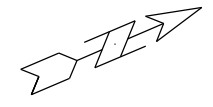
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REV. DATE: \_\_\_\_\_

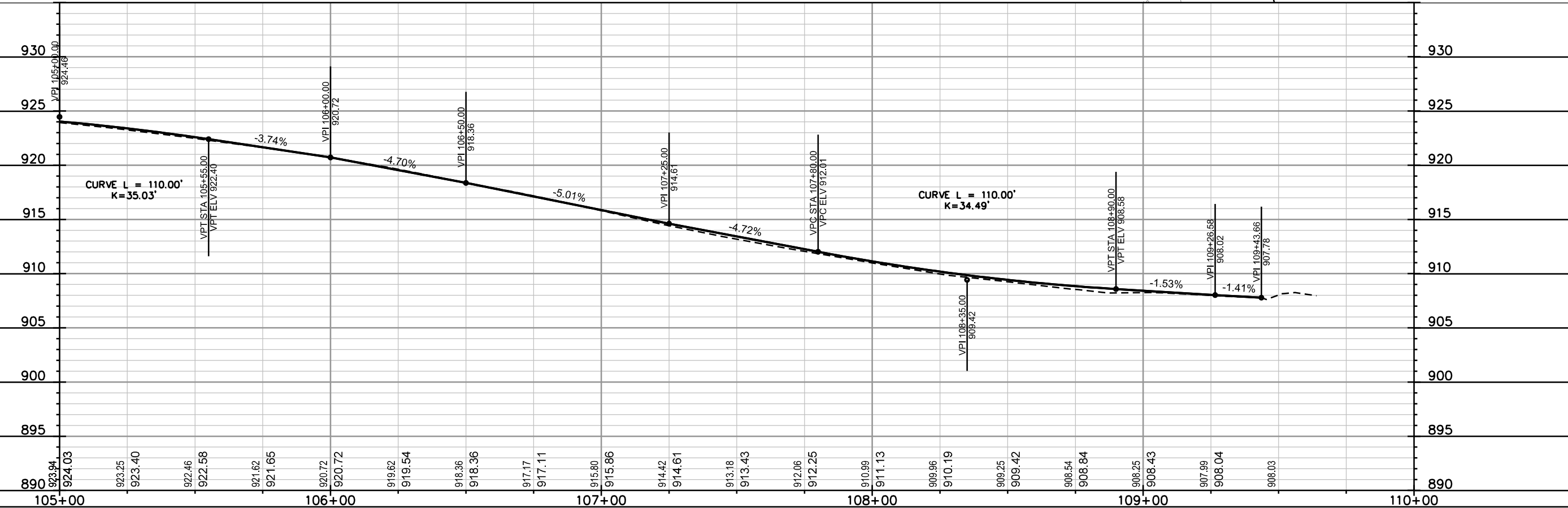
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

SAWYER TR. CITY OF MADISON



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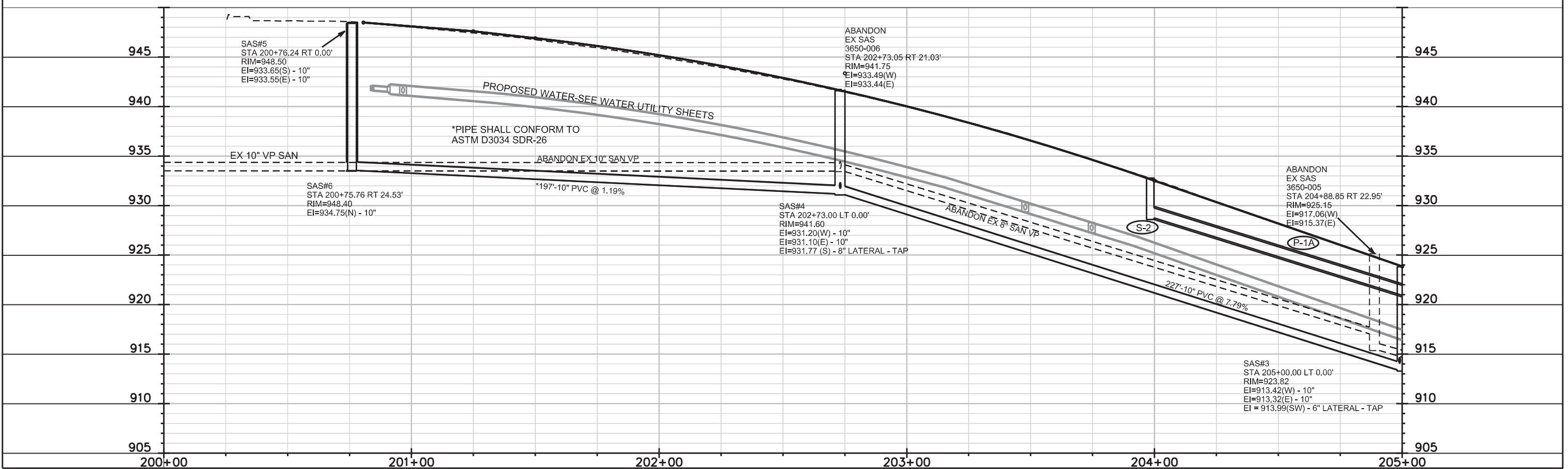
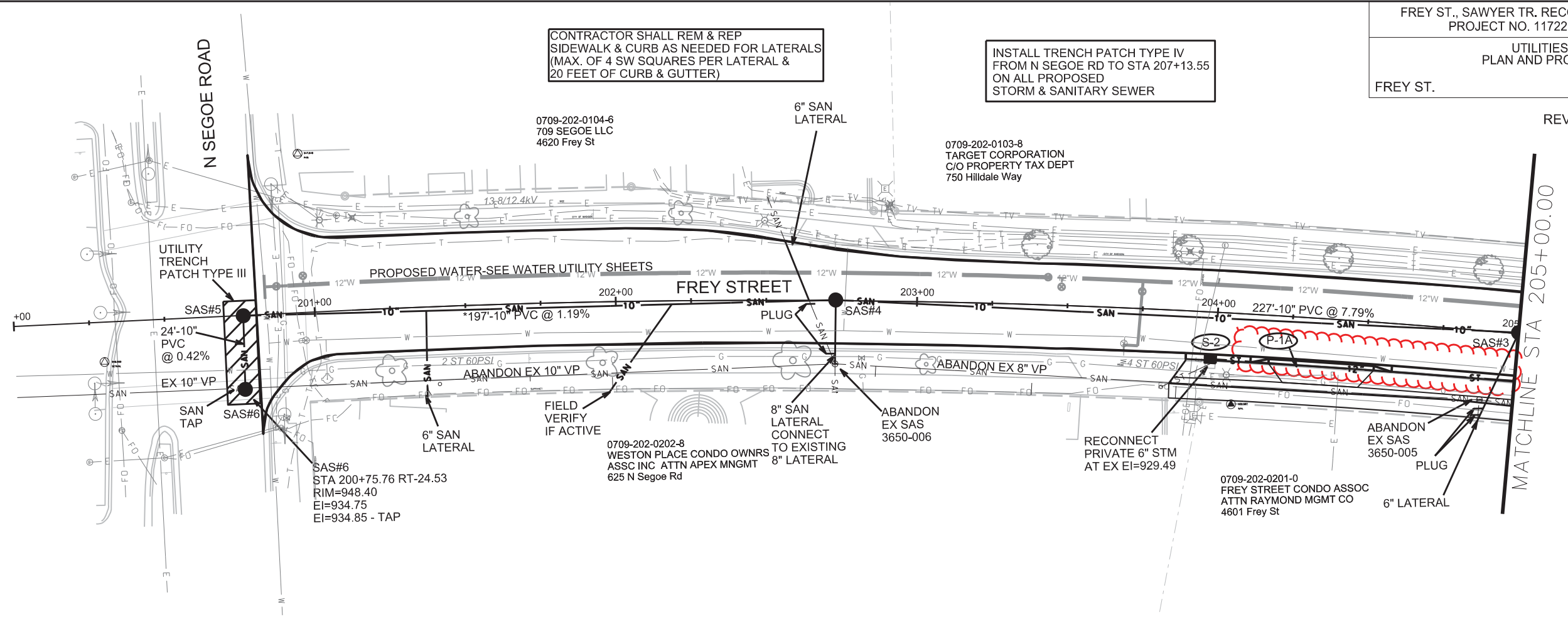


PLOT SCALE: \_\_\_\_\_  
PLOT NAME: \_\_\_\_\_  
REV. DATE: \_\_\_\_\_  
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 6/6/18 EEA

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

INSTALL TRENCH PATCH TYPE IV  
FROM N SEGOE RD TO STA 207+13.55  
ON ALL PROPOSED  
STORM & SANITARY SEWER



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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

REVISED 6/6/18 EEA

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STORM & SANITARY SEWER

CONTRACTOR SHALL REM & REP  
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(MAX. OF 4 SW SQUARES PER LATERAL &  
20 FEET OF CURB & GUTTER)

0709-202-0103-8  
TARGET CORPORATION  
C/O PROPERTY TAX DEPT  
750 Hilldale Way

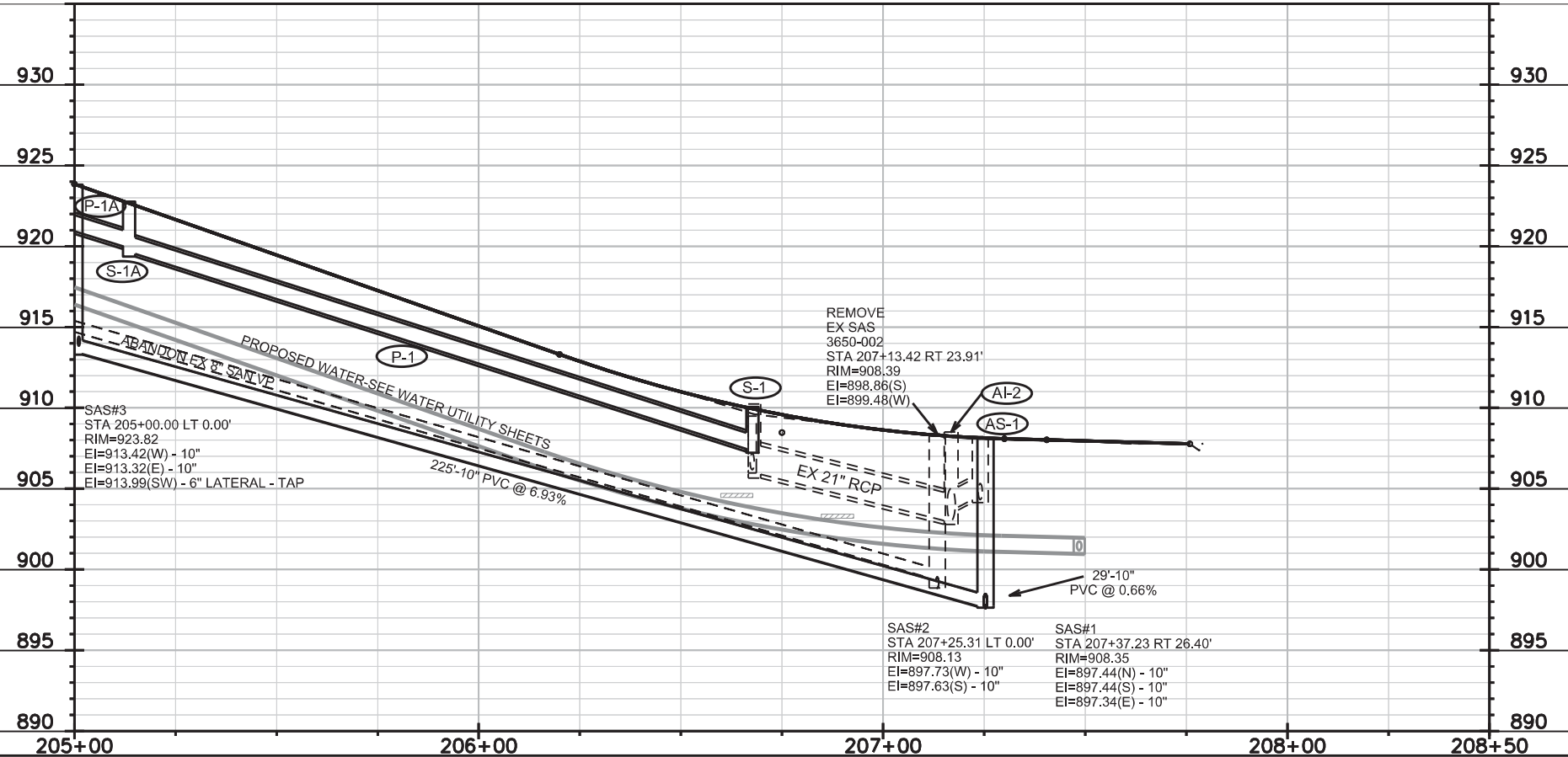
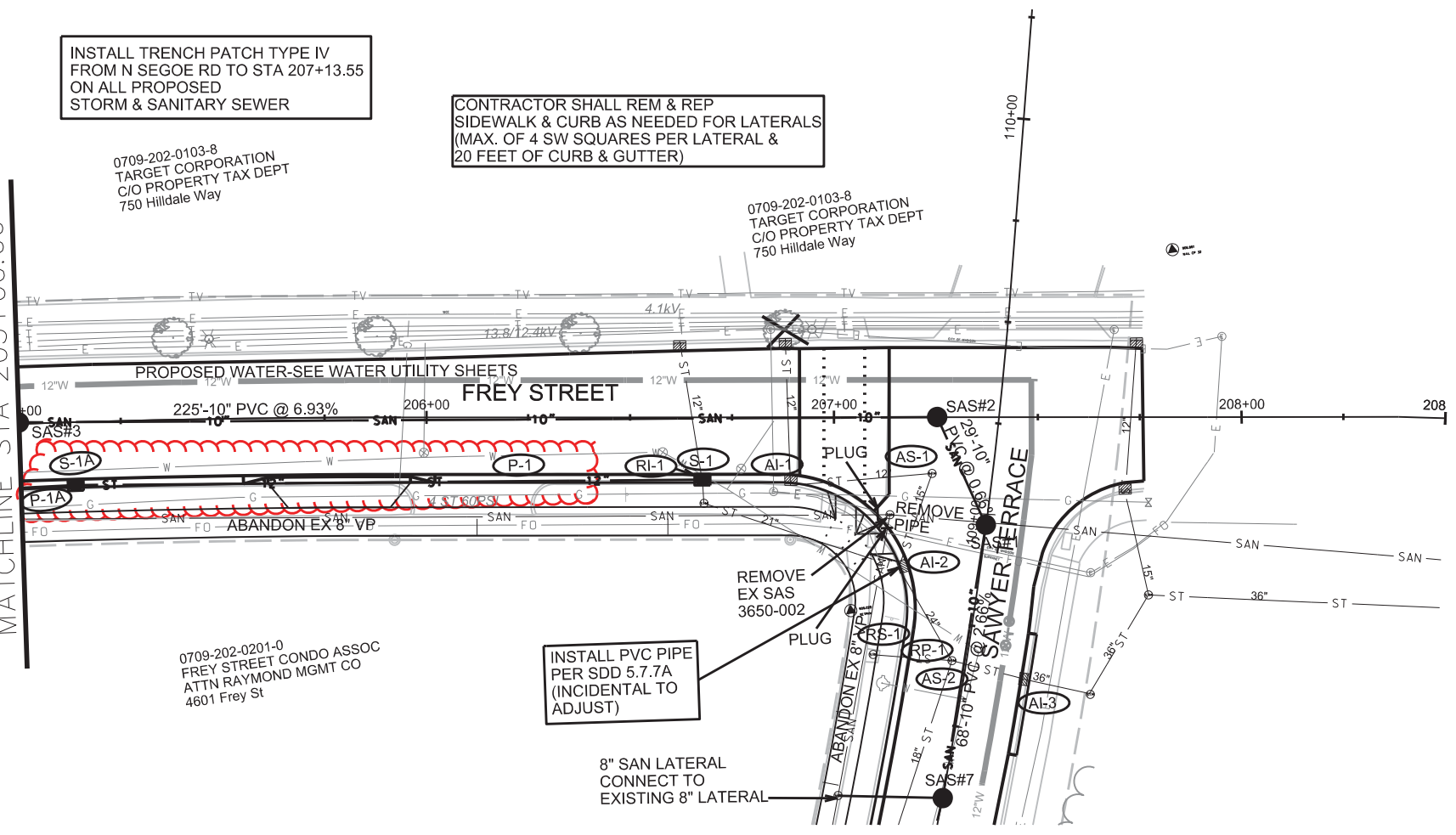
0709-202-0103-8  
TARGET CORPORATION  
C/O PROPERTY TAX DEPT  
750 Hilldale Way

0709-202-0201-0  
FREY STREET CONDO ASSOC  
ATTN RAYMOND MGMT CO  
4601 Frey St

INSTALL PVC PIPE  
PER SDD 5.7.7A  
(INCIDENTAL TO  
ADJUST)

8" SAN LATERAL  
CONNECT TO  
EXISTING 8" LATERAL

MATCHLINE STA 205+00.00



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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



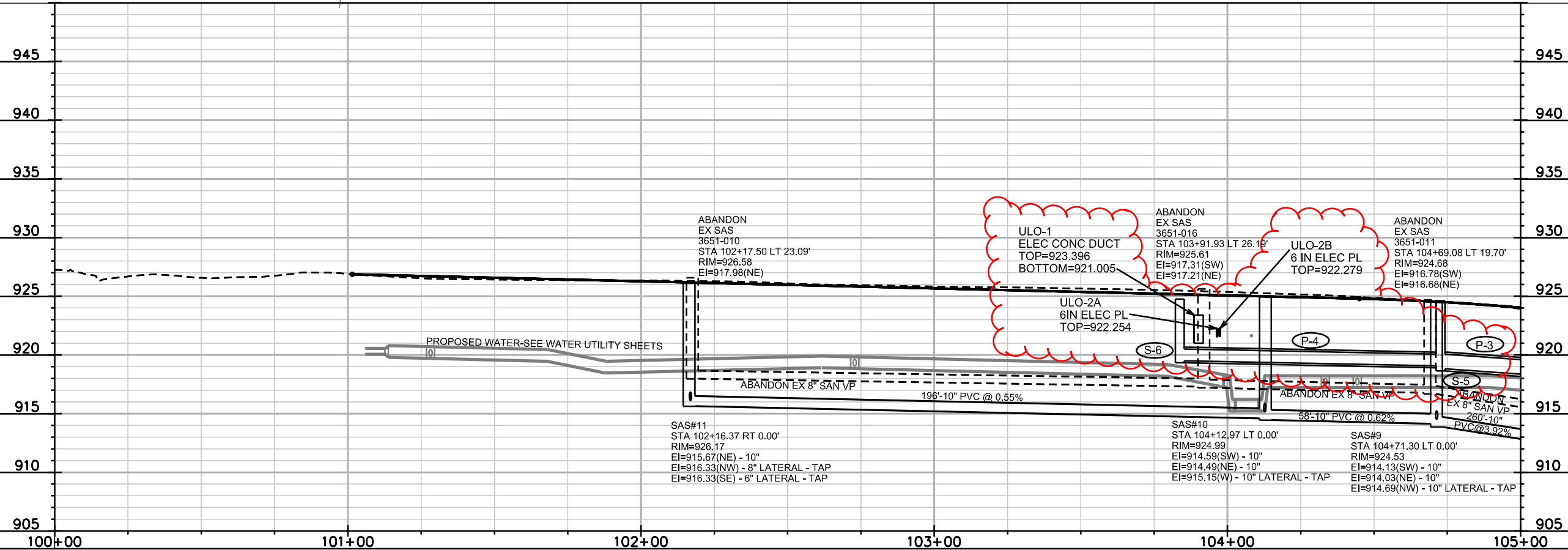
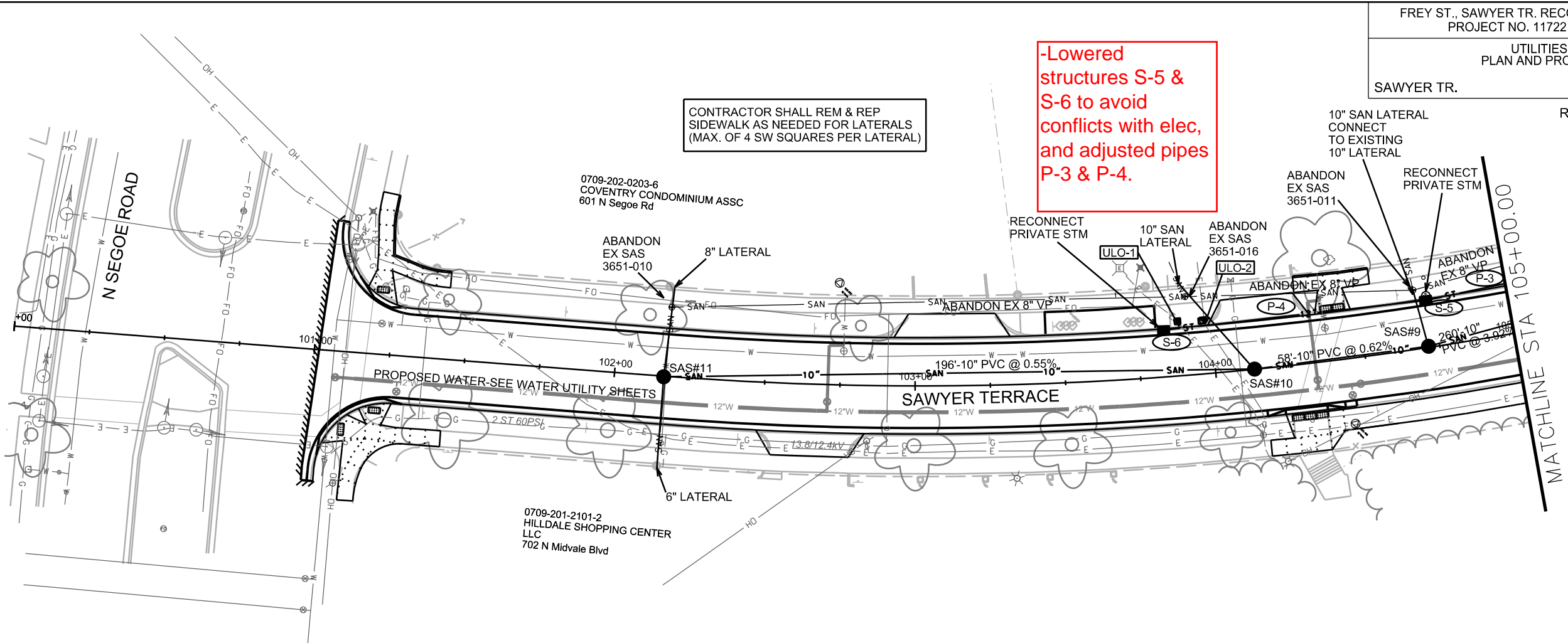
UTILITIES  
PLAN AND PROFILE

SAWYER TR. CITY OF MADISON

REVISED 8/23/18 EEA

**-Lowered  
structures S-5 &  
S-6 to avoid  
conflicts with elec,  
and adjusted pipes  
P-3 & P-4.**

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



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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITIES  
PLAN AND PROFILE

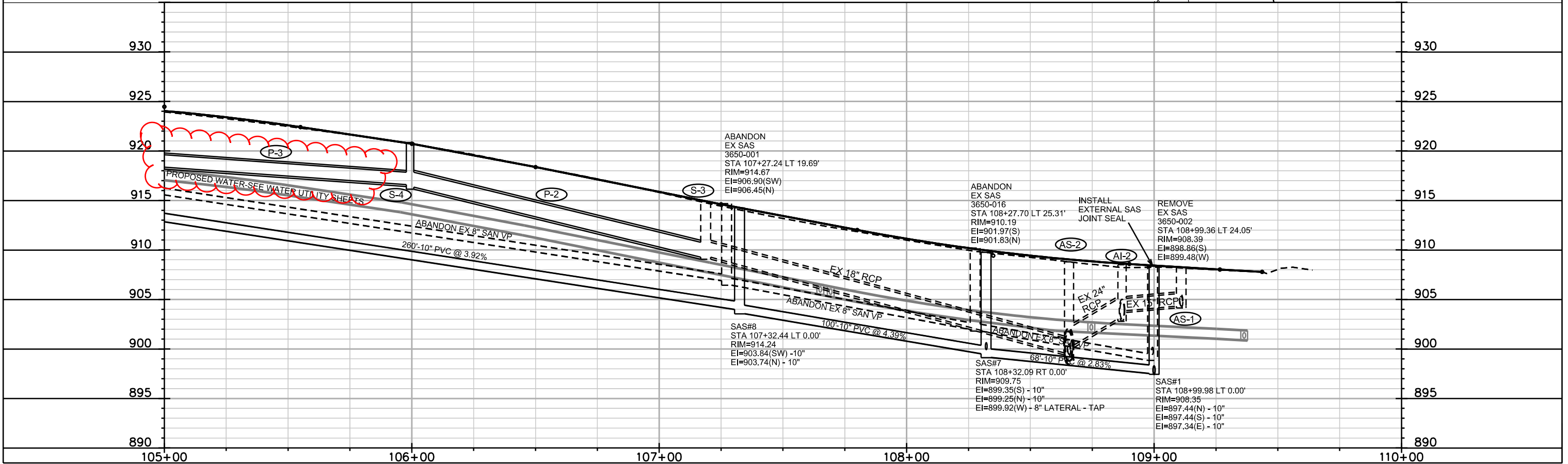
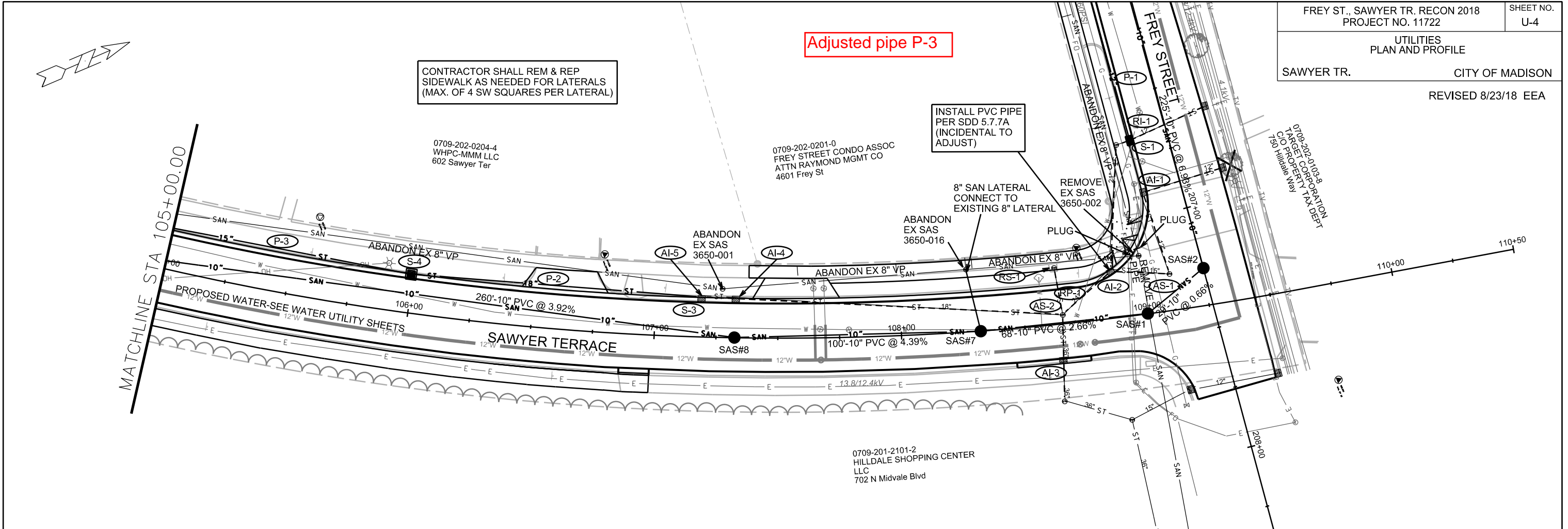
SAWYER TR. CITY OF MADISON

REVISED 8/23/18 EEA

Adjusted pipe P-3

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

INSTALL PVC PIPE  
PER SDD 5.7.7A  
(INCIDENTAL TO  
ADJUST)



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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# SANITARY SCHEDULE

FREY ST, SAWYER TR RECON 2018

SHEET NO.

PROJECTS 11722

U-5

SANITARY SEWER SCHEDULE

CITY OF MADISON

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>FREY ST</b>						
SAS#1	207+37.23	RT-26.40	908.35	897.34	11.01	-
SAS#2	207+25.31	CL	908.13	897.63	10.50	-
SAS#3	205+00.00	CL	923.82	913.32	10.50	-
SAS#4	202+73.00	CL	941.60	931.10	10.50	-
SAS#5	200+76.24	CL	948.50	933.55	14.95	-
SAS#6	200+75.76	RT-24.53	948.40	934.75	13.65	-

## SAWYER TER

SAS#7	108+32.09	CL	909.75	899.25	10.50	-
SAS#8	107+32.44	CL	914.24	903.74	10.50	-
SAS#9	104+71.30	CL	924.53	914.03	10.50	-
SAS#10	104+12.97	CL	924.99	914.49	10.50	-
SAS#11	102+16.37	CL	926.17	915.67	10.50	-

## REMOVE SANITARY STRUCTURES

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
--------	---------	-------------------	------	-------

## FREY ST

3650-002	207+13.42	RT-23.91	48"	-
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## ABANDON SANITARY STRUCTURES

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
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## FREY ST

3650-006	202+73.05	RT-21.03	48"	-
3650-005	204+88.85	RT-22.95	48"	-

## SAWYER TER

3650-016	103+91.93	LT-26.19	48"	-
3650-001	107+27.24	LT-19.69	48"	-
3651-011	104+69.08	LT-19.70	48"	-
3651-016	103+91.93	LT-26.19	48"	-
3651-010	102+17.50	LT-23.09	48"	-

## PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
<b>FREY ST</b>								
SAS#1	SAS#2	897.44	897.63	29	0.66%	10"	SDR-35	-
SAS#2	SAS#3	897.73	913.32	225	6.93%	10"	SDR-35	-
SAS#3	SAS#4	913.42	931.10	227	7.79%	10"	SDR-35	-
SAS#4	SAS#5	931.20	933.55	197	1.19%	10"	SDR-35	-
SAS#5	SAS#6	933.65	934.75	24	4.58%	10"	SDR-26	-

## SAWYER TER

SAS#1	SAS#7	897.44	899.25	68	2.66%	10"	SDR-35	-
SAS#7	SAS#8	899.35	903.74	100	4.39%	10"	SDR-35	-
SAS#8	SAS#9	903.84	914.03	260	3.92%	10"	SDR-35	-
SAS#9	SAS#10	914.13	914.49	58	0.62%	10"	SDR-35	-
SAS#10	SAS#11	914.59	915.67	196	0.55%	10"	SDR-35	-

## REMOVE SANITARY PIPES

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
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## FREY ST

SAS#1	3650-002	24	10"	PVC	Y	-
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## ABANDON SANITARY PIPES

ABANDON FROM	ABANDON TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
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## FREY ST

SAS#6	3650-006	196	10	VP	Y	W/ SLURRY
3650-006	3650-005	214	8	VP	Y	W/ SLURRY
3650-005	3650-002	224	8	VP	Y	W/ SLURRY

## SAWYER TER

3650-002	3650-016	70	8	VP	Y	W/ SLURRY
3650-016	3650-001	102	8	VP	Y	W/ SLURRY
3650-001	3651-011	254	8	VP	Y	W/ SLURRY
3651-011	3651-016	76	8	VP	Y	W/ SLURRY
3651-016	3651-010	171	8	VP	Y	W/ SLURRY

# STORM SEWER SCHEDULE

\* REVISED 6/6/18 EEA  
+ REVISED 8/23/18 EEA

FREY ST, SAWYER TR RECON 2018 PROJECT NO. 11722	SHEET NO. U-6
STORM SEWER SCHEDULE	
CITY OF MADISON	

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>FREY ST</b>							
* S-1	206+67.71	RT-15.50	H INLET	910.05	907.22	2.83	FP; W/ R-3067-7004-V
* S-1A	205+13.52	RT-15.50	H INLET	922.76	919.76	3.00	W/ R-3067-7004-V
* S-2	203+98.27	RT-15.50	H INLET	932.77	928.99	3.78	W/ R-3067-7004-V; (1)
<b>SAWYER TER</b>							
S-3	107+18.76	LT-15.50	STM TAP EX IN 3650-037	-	909.27	-	-
* S-4	105+99.28	LT-15.50	3X3 SAS	920.84	916.34	4.50	W/ R-3067-7004-V
+* S-5	104+72.84	LT-15.50	H INLET	924.61	918.82	5.79	W/ R-3067-7004-V
+* S-6	103+83.74	LT-15.50	H INLET	924.75	919.50	5.25	W/ R-1878-B7G; (2)

## STORM STRUCTURE REMOVALS

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>FREY ST</b>					
RI-1	3650-058	206+67.71	RT-15.50	SADDLED H INLET	-
<b>SAWYER TER</b>					
RS-1	-	108+64.00	LT-23.00	CB	-

## ULO SCHEDULE

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
<b>SAWYER TER</b>				
+ ULO-1	103+90.00	LT-16.24	ELEC CONC DUCT	LOWERED STORM TO AVOID CONFLICT
+ ULO-2	103+98.00	LT-16.50	6 IN ELEC PLASTIC	LOWERED STORM TO AVOID CONFLICT

## SPECIFIC NOTES

- (1) RECONNECT PRIVATE 6" STM  
+ (2) BOX OUT TO NORTH FOR FUTURE 12" PVT CONNECTION; TOP OF CASTING IS FLOWLINE

## 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>FREY ST</b>										
* P-1	S-1	S-1A	907.22	919.76	154	151	8.30%	12"	TYPE II	-
* P-1A	S-1A	S-2	919.76	928.99	115	112	8.24%	12"	TYPE II	-
<b>SAWYER TER</b>										
P-2	S-3	S-4	909.27	916.34	118	114	6.20%	18"	TYPE II	-
+ P-3	S-4	S-5	916.59	918.82	125	122	1.83%	15"	TYPE II	-
+ P-4	S-5	S-6	919.07	919.50	88	85	0.51%	12"	TYPE II	-

## STORM PIPE REMOVALS

REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
<b>SAWYER TER</b>							
RP-1	RS-1	AS-2	19			Y	-

## ADJUST STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	EX RIM	PROP RIM	DIFF	NOTES
<b>FREY ST</b>							
AS-1	AS 3650-057	207+24.04	RT-13.74	908.22	908.63	-0.41	-
AI-1	IN 3650-060	206+89.42	RT-15.50	909.07	909.07	0.00	-
<b>SAWYER TER</b>							
AS-2	AS 3650-033	108+65.64	LT-3.80	908.80	909.23	-0.43	-
AI-2	IN 3650-035	108+87.05	LT-18.95	908.51	908.97	-0.46	INSTALL PVC PIPE PER SDD 5.7.7A
AI-3	IN 3650-034	108+64.26	RT-15.50	909.01	909.09	-0.08	-
AI-4	IN 3650-072	107+34.45	LT-15.50	914.13	914.26	-0.13	-
AI-5	IN 3650-037	107+18.76	LT-15.50	914.90	915	-0.10	-

## 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 ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO EACOSTA@CITYOFMADISON.COM.



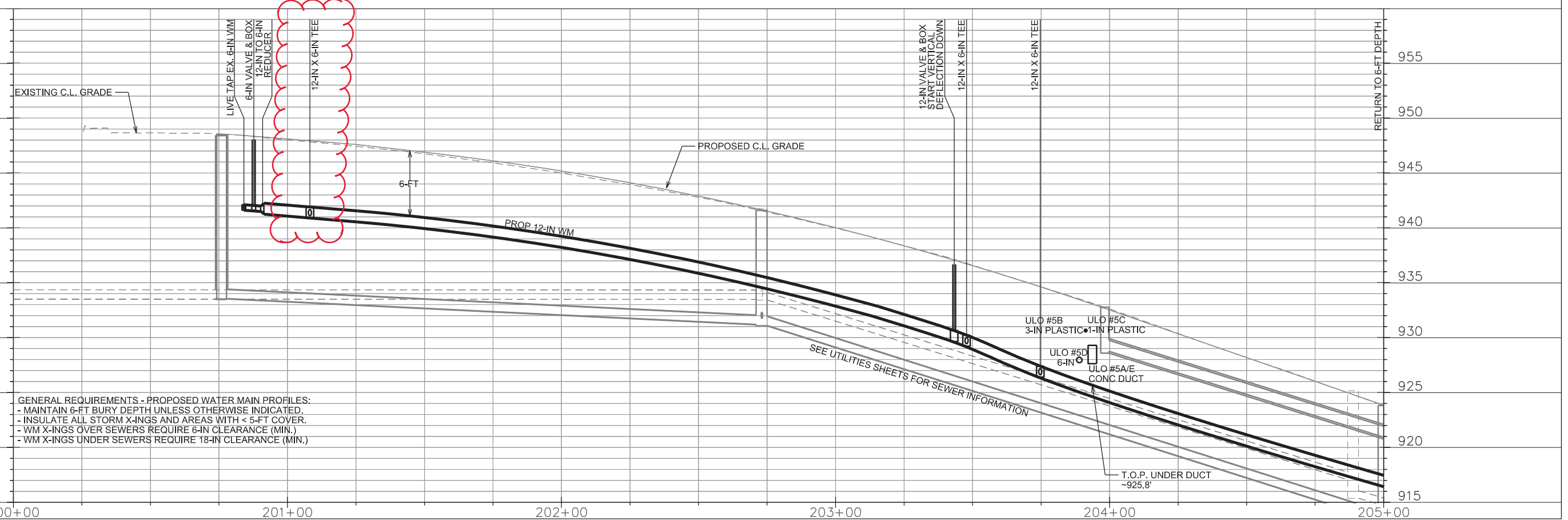
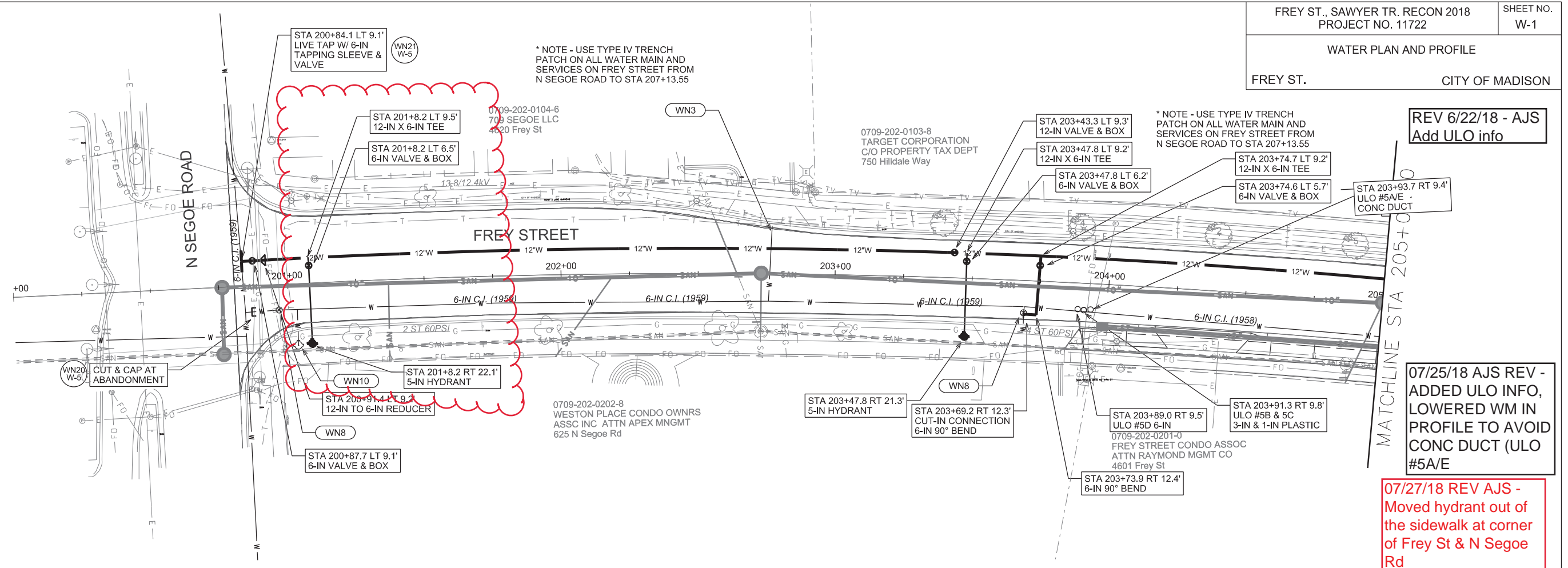
REV 6/22/18 - AJS  
Add ULO info

07/25/18 AJS REV -  
ADDED ULO INFO,  
LOWERED WM IN  
PROFILE TO AVOID  
CONC DUCT (ULO  
#5A/E

07/27/18 REV AJS -  
Moved hydrant out of  
the sidewalk at corner  
of Frey St & N Segoe Rd

\* NOTE - USE TYPE IV TRENCH  
PATCH ON ALL WATER MAIN AND  
SERVICES ON FREY STREET FROM  
N SEGOE ROAD TO STA 207+13.55

\* NOTE - USE TYPE IV TRENCH  
PATCH ON ALL WATER MAIN AND  
SERVICES ON FREY STREET FROM  
N SEGOE ROAD TO STA 207+13.55



GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:  
- MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.  
- INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.  
- WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)  
- WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

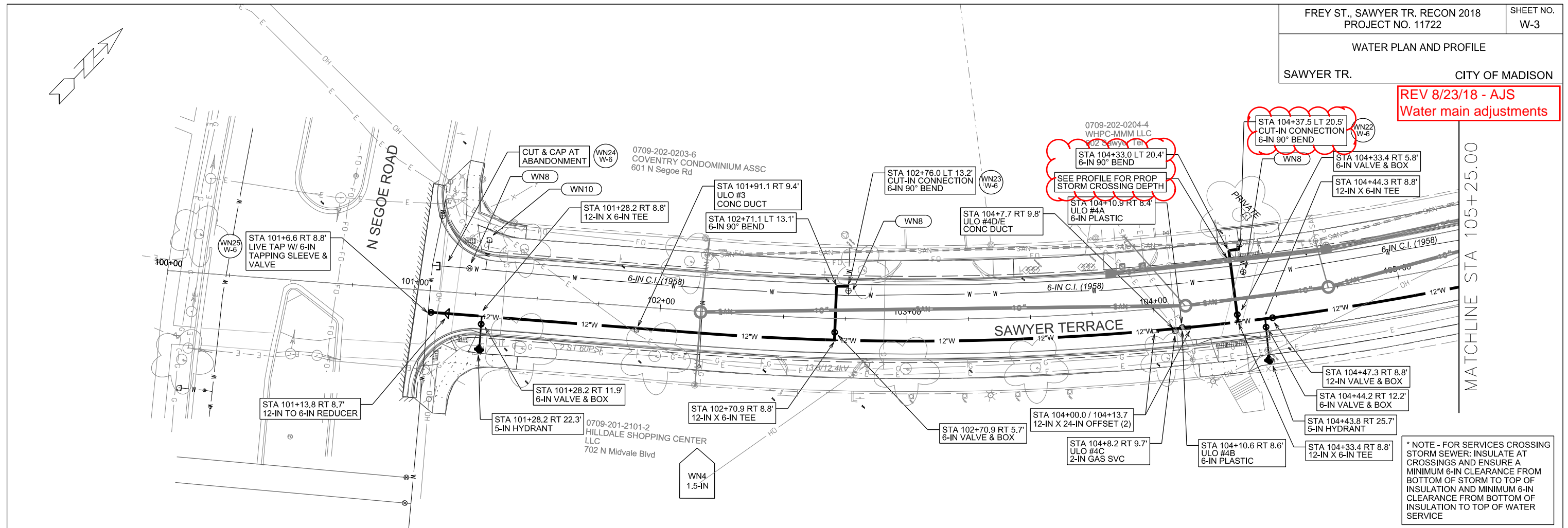


WATER PLAN AND PROFILE

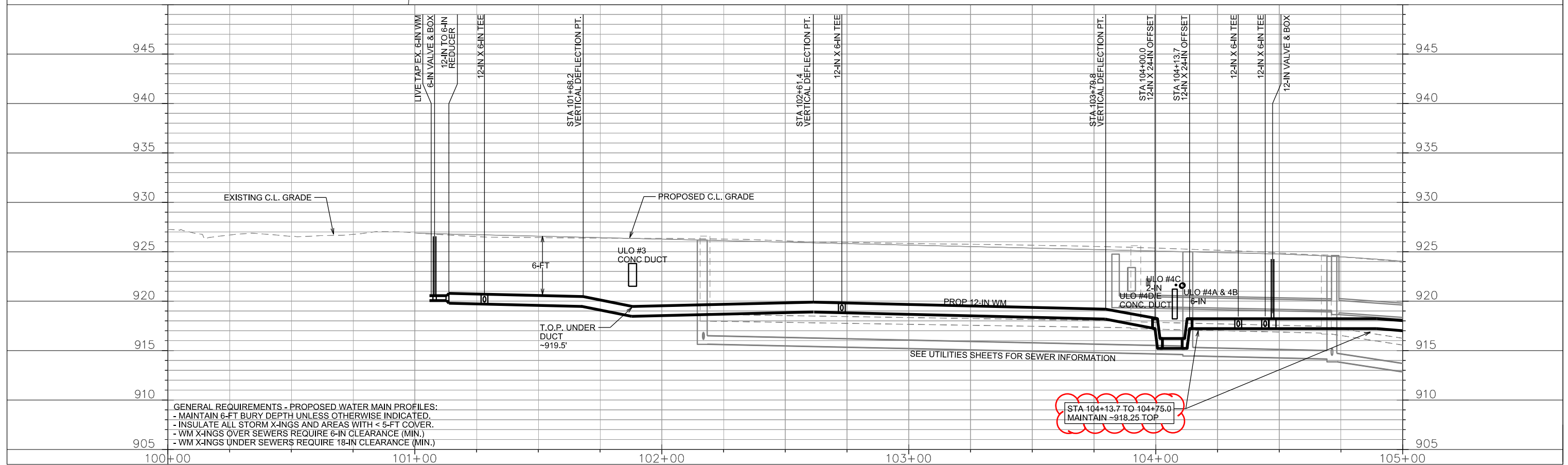
SAWYER TR.

CITY OF MADISON

REV 8/23/18 - AJS  
Water main adjustments



\* NOTE - FOR SERVICES CROSSING STORM SEWER: INSULATE AT CROSSINGS AND ENSURE A MINIMUM 6-IN CLEARANCE FROM BOTTOM OF STORM TO TOP OF INSULATION AND MINIMUM 6-IN CLEARANCE FROM BOTTOM OF INSULATION TO TOP OF WATER SERVICE



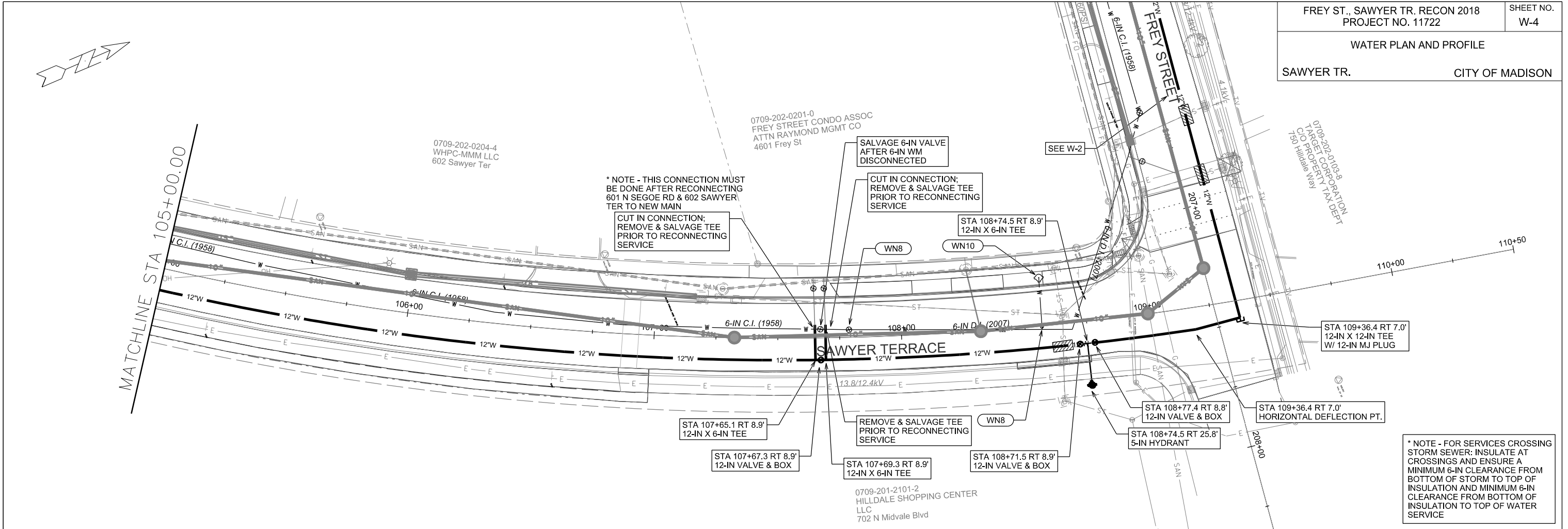
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PLOT NAME: \_\_\_\_\_

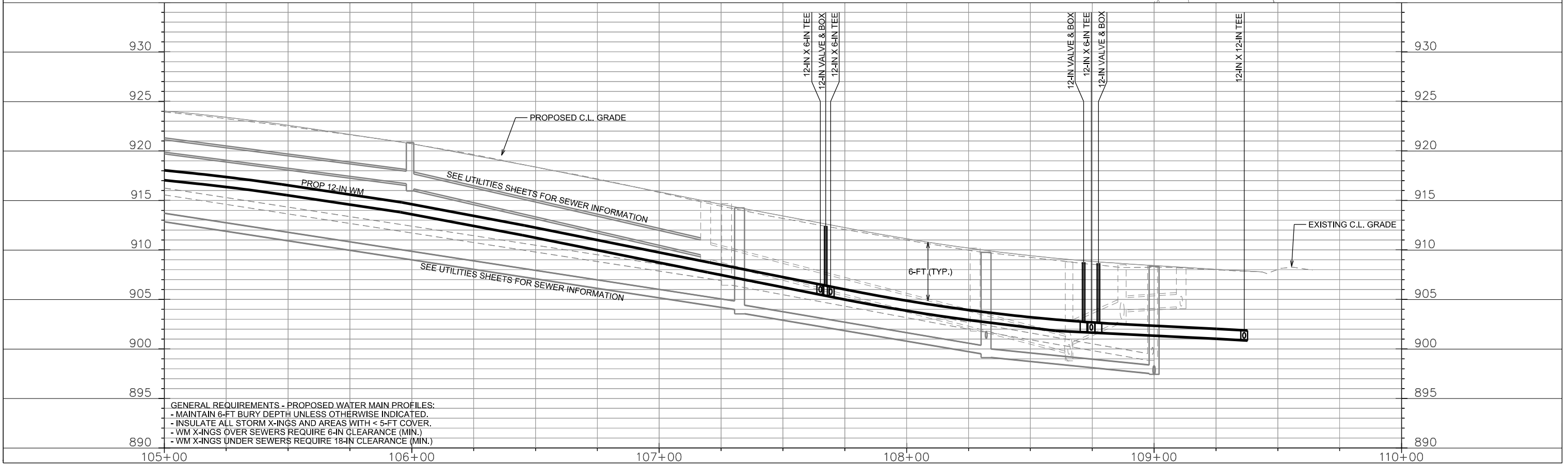
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE  
SAWYER TR. CITY OF MADISON



\* NOTE - FOR SERVICES CROSSING STORM SEWER: INSULATE AT CROSSINGS AND ENSURE A MINIMUM 6-IN CLEARANCE FROM BOTTOM OF STORM TO TOP OF INSULATION AND MINIMUM 6-IN CLEARANCE FROM BOTTOM OF INSULATION TO TOP OF WATER SERVICE



GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:  
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.  
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 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)  
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE:

PLOT NAME:

REV. DATE:

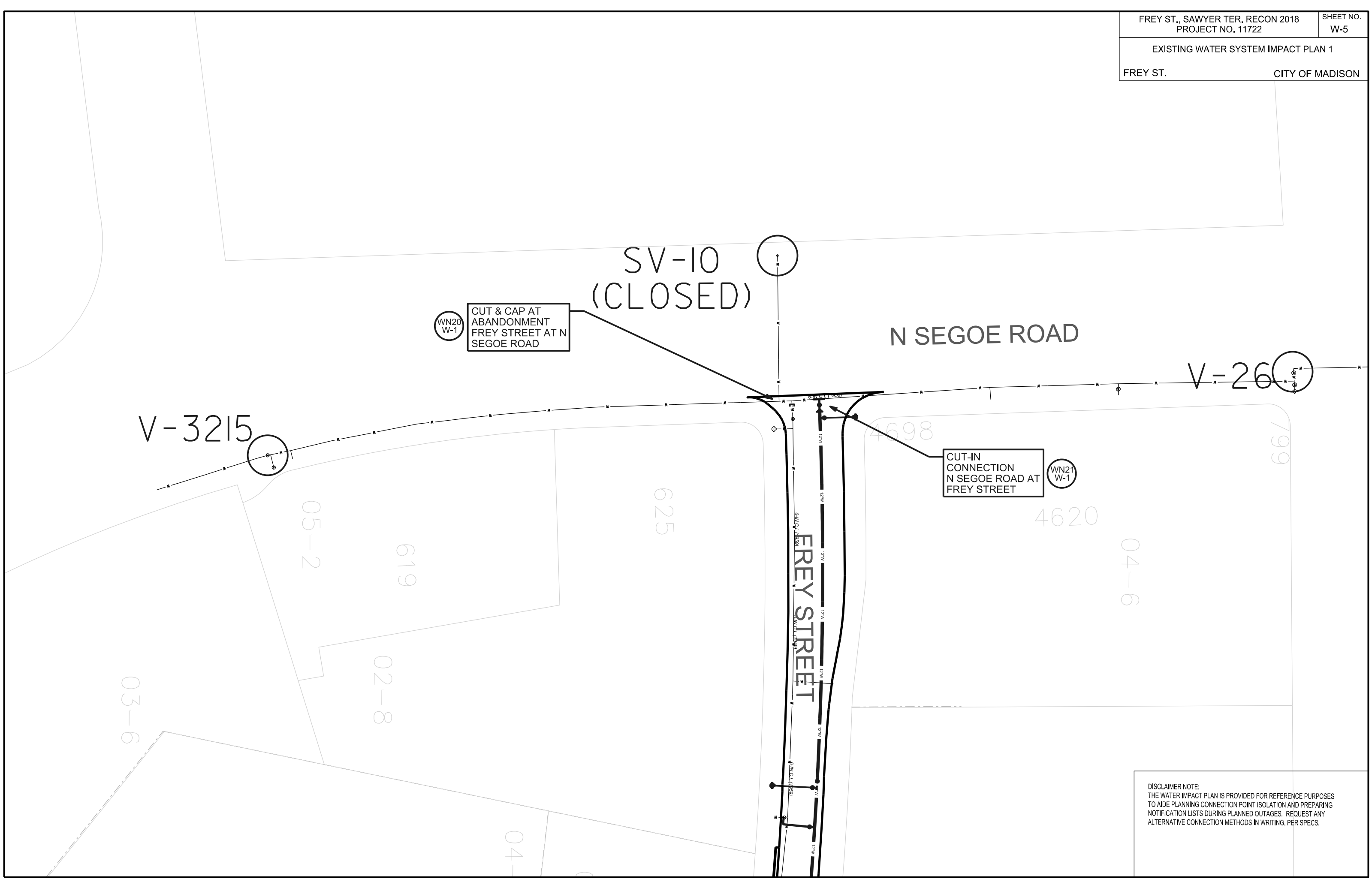
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



EXISTING WATER SYSTEM IMPACT PLAN 1

FREY ST.

CITY OF MADISON

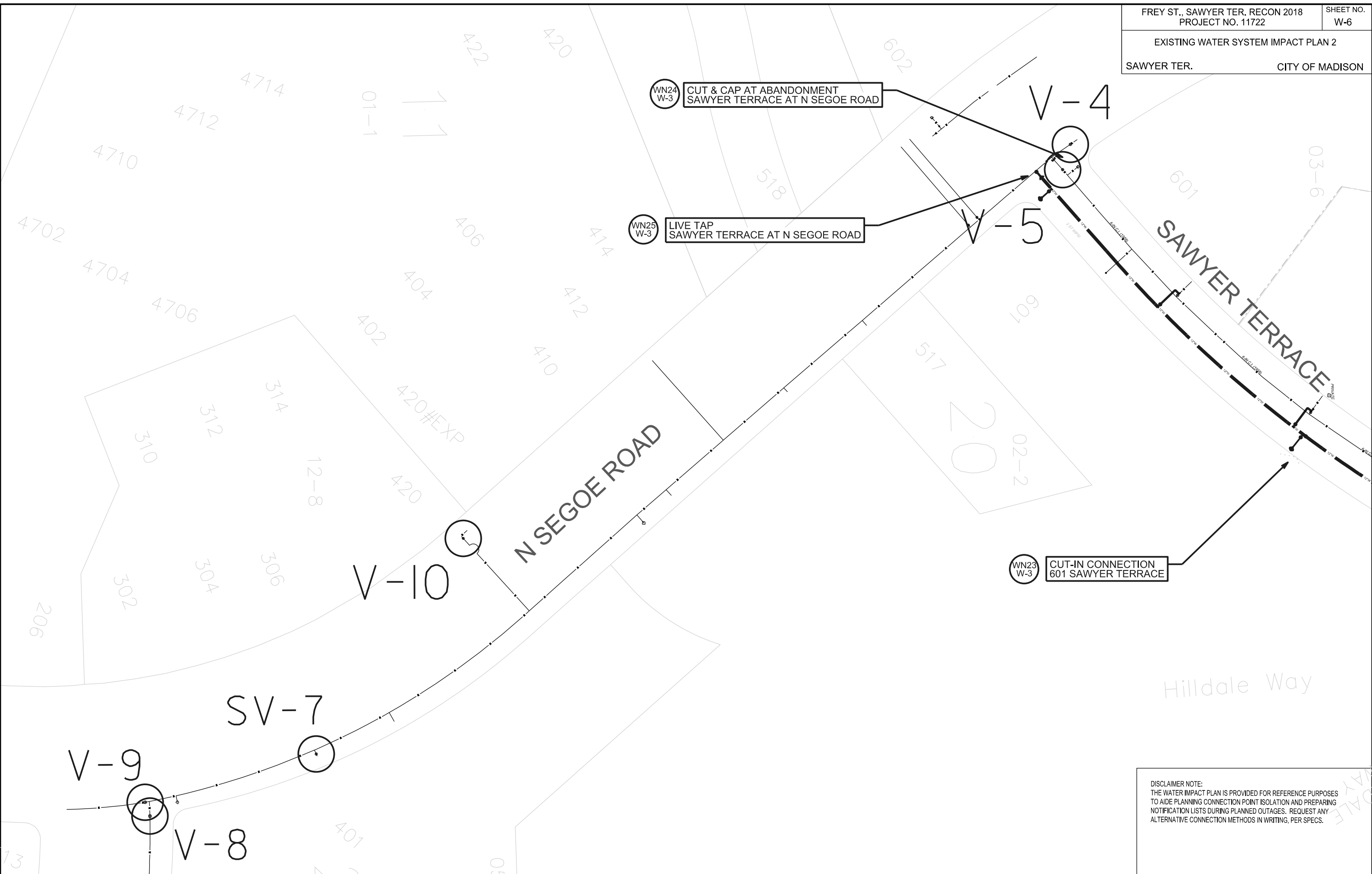


DISCLAIMER NOTE:  
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES  
TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING  
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY  
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

EXISTING WATER SYSTEM IMPACT PLAN 2

SAWYER TER.

CITY OF MADISON



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 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.

**UTILITY LINE OPENINGS (ULO's):**

ULO #	SHEET	STATION	DESCRIPTION
#5	W-1	203+95	WATER / ELECTRIC
#3	W-3	101+88	WATER / ELECTRIC
#4	W-3	104+05	WATER / ELECTRIC / GAS

07/25/18 AJS REV -  
ADDED ULO INFO,  
UPDATED MATERIAL  
ESTIMATE

**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

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

- |                           |                                   |
|---------------------------|-----------------------------------|
| 240-FT - 6-IN PIPE        | 1 - 12-IN MJ PLUG                 |
| 1500-FT - 8-IN PIPE       | 5 - 5-IN HYDRANT                  |
| 8 - 6-IN VALVE & BOX      | 24-FT - 2-IN STYROFOAM INSULATION |
| 5 - 12-IN VALVE & BOX     | 2020-FT - POLY WRAP               |
| 1 - 6-IN X 6-IN TEE       | 1-IN TO 2-IN COPPER (AS REQ'D)    |
| 10 - 12-IN X 6-IN TEE     |                                   |
| 1 - 12-IN X 12-IN TEE     |                                   |
| 6 - 6-IN 90° BEND         | 2 - 12-IN X 24-IN OFFSET          |
| 2 - 12-IN TO 6-IN REDUCER |                                   |

**MATERIALS SUPPLIED BY CITY:**

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

- 1 - 6-IN X 6-IN TAPPING SLEEVE
- 1 - 6-IN VALVE & BOX

**ESTIMATE OF MATERIALS SALVAGED:**

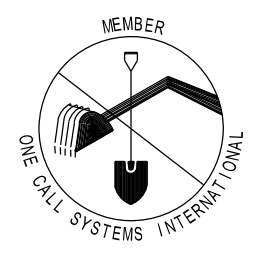
*\* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.*

- 1 - 6-IN VALVE & BOX
- 1 - 5-IN HYDRANT

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

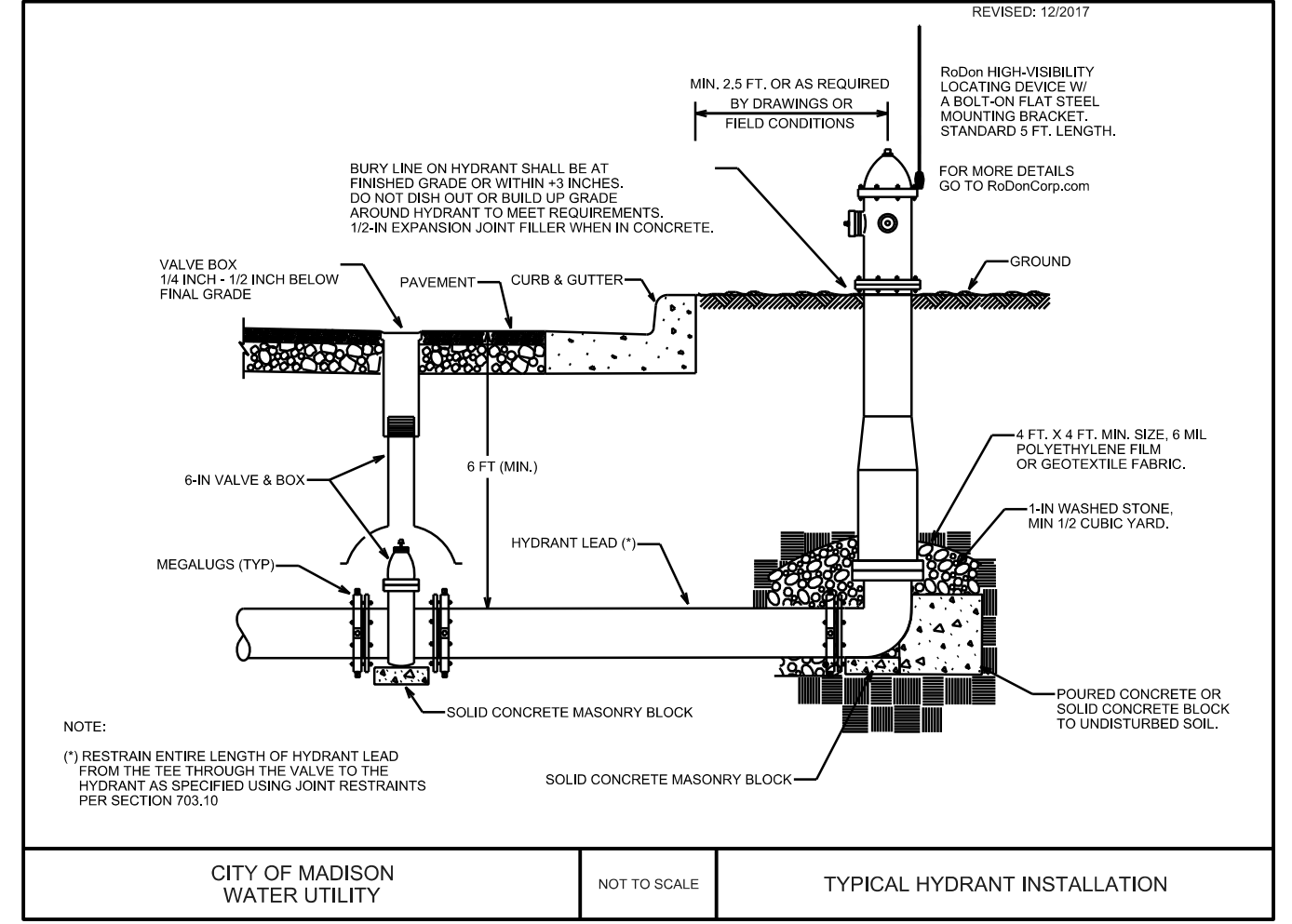
WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



**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.

**PART VII - WATER MAINS AND SERVICE LATERALS**

**DETAIL DRAWING NO. 7.04**  
REVISED: 12/2017



CITY OF MADISON WATER UTILITY      NOT TO SCALE      TYPICAL HYDRANT INSTALLATION

City of Madison Standard Specifications for Public Works Construction

PLOT SCALE:

PLOT NAME:

REV. DATE:

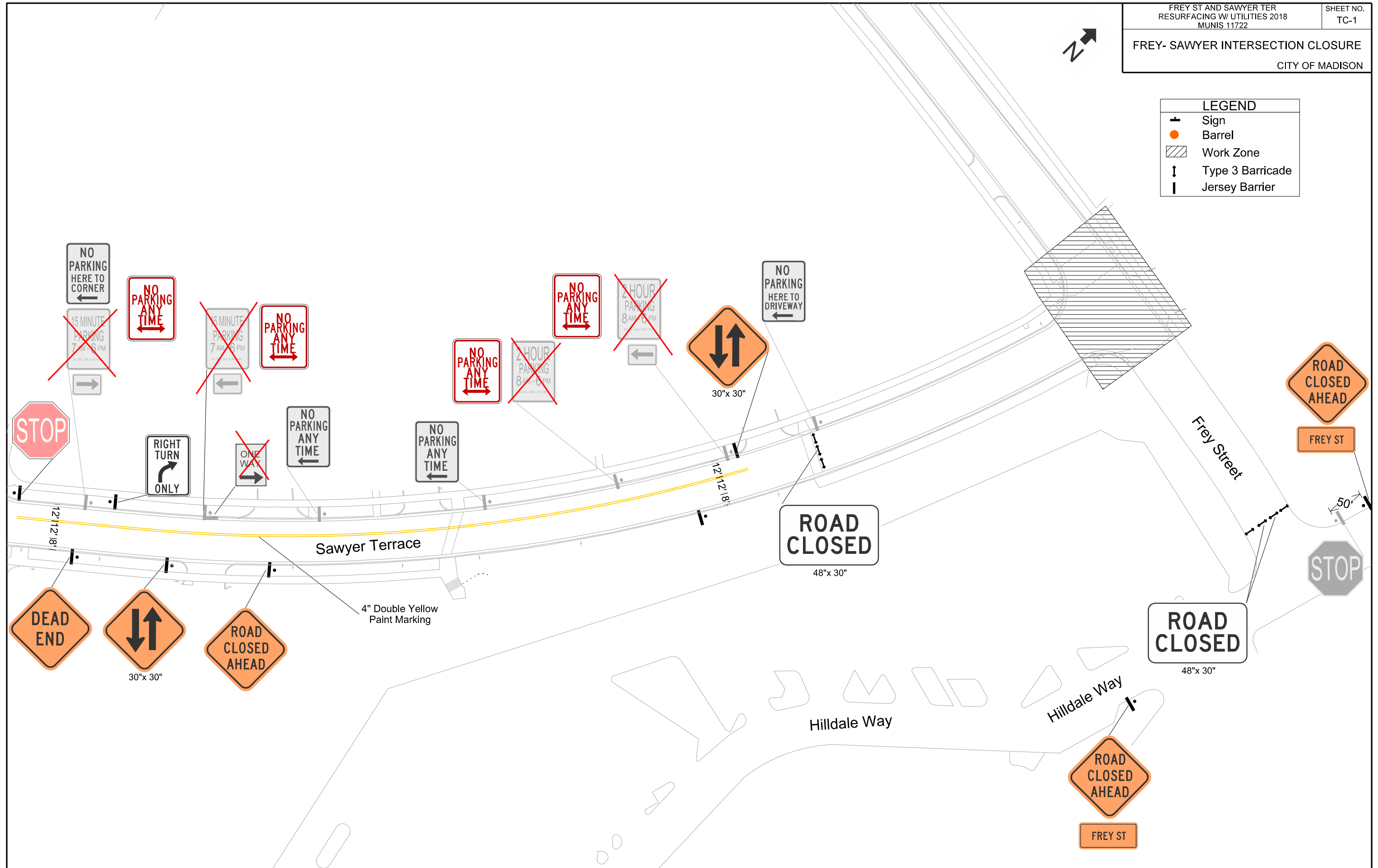
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

FREY- SAWYER INTERSECTION CLOSURE  
CITY OF MADISON



LEGEND	
	Sign
	Barrel
	Work Zone
	Type 3 Barricade
	Jersey Barrier

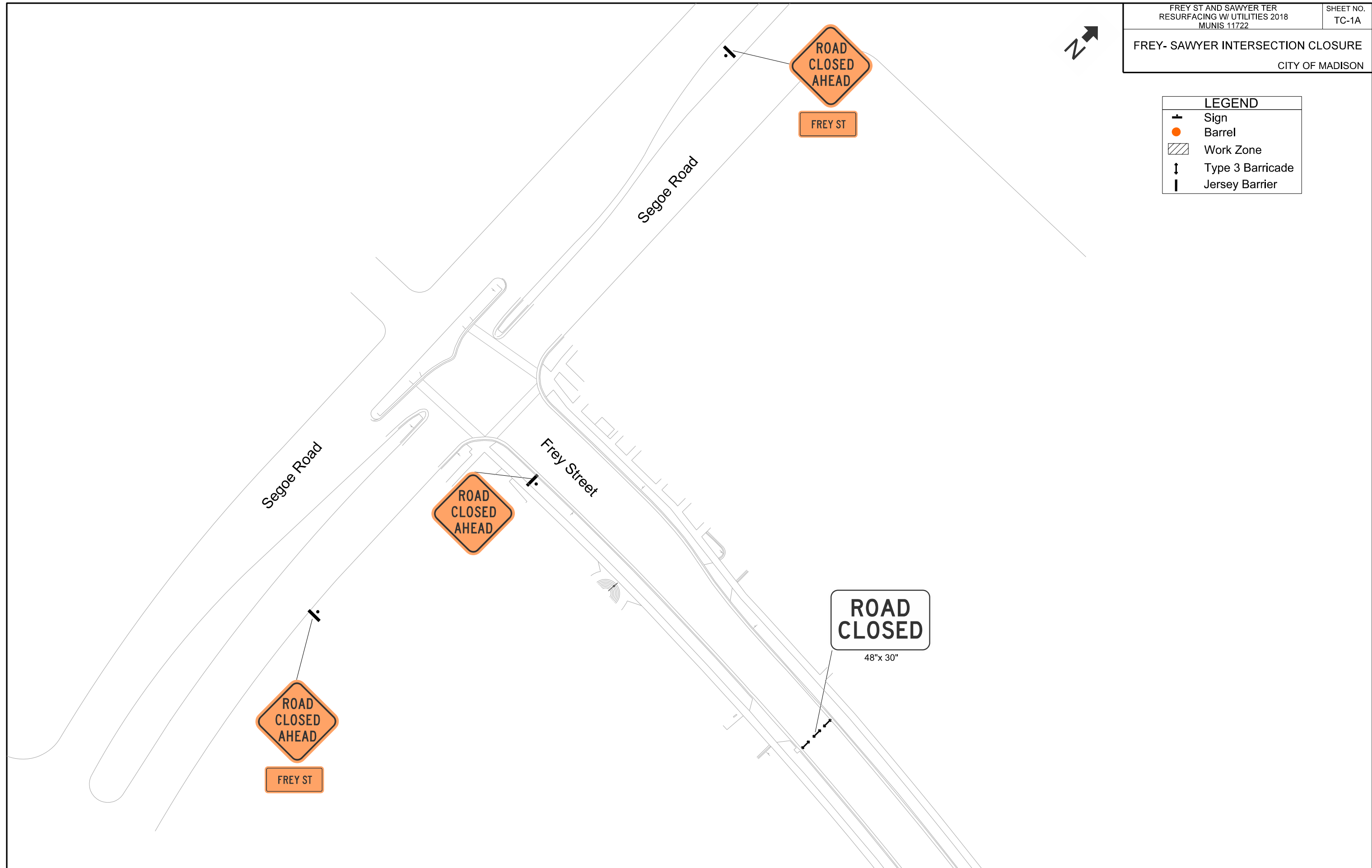
PLOT SCALE:  
PLOT NAME:  
REV. DATE:  
ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





FREY- SAWYER INTERSECTION CLOSURE  
CITY OF MADISON

LEGEND	
+	Sign
●	Barrel
▨	Work Zone
↓	Type 3 Barricade
	Jersey Barrier



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

**FREY STREET CLOSURE**  
CITY OF MADISON

LEGEND	
	Sign
	Barrel
	Work Zone
	Type 3 Barricade
	Jersey Barrier

**ROAD CLOSED**  
**LOCAL TRAFFIC ONLY**  
60"x 30"

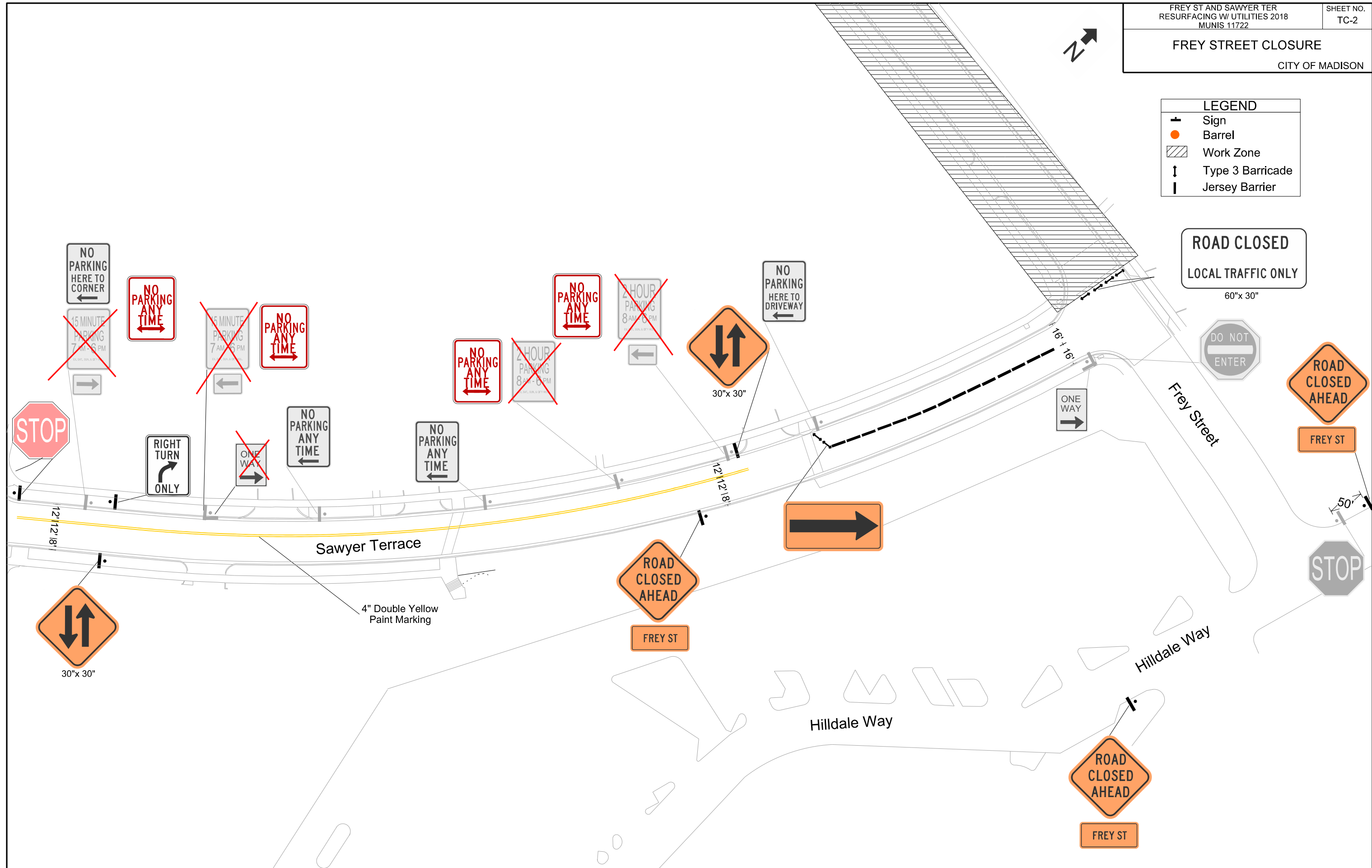
DO NOT  
ENTER

**ROAD  
CLOSED  
AHEAD**  
FREY ST

STOP



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

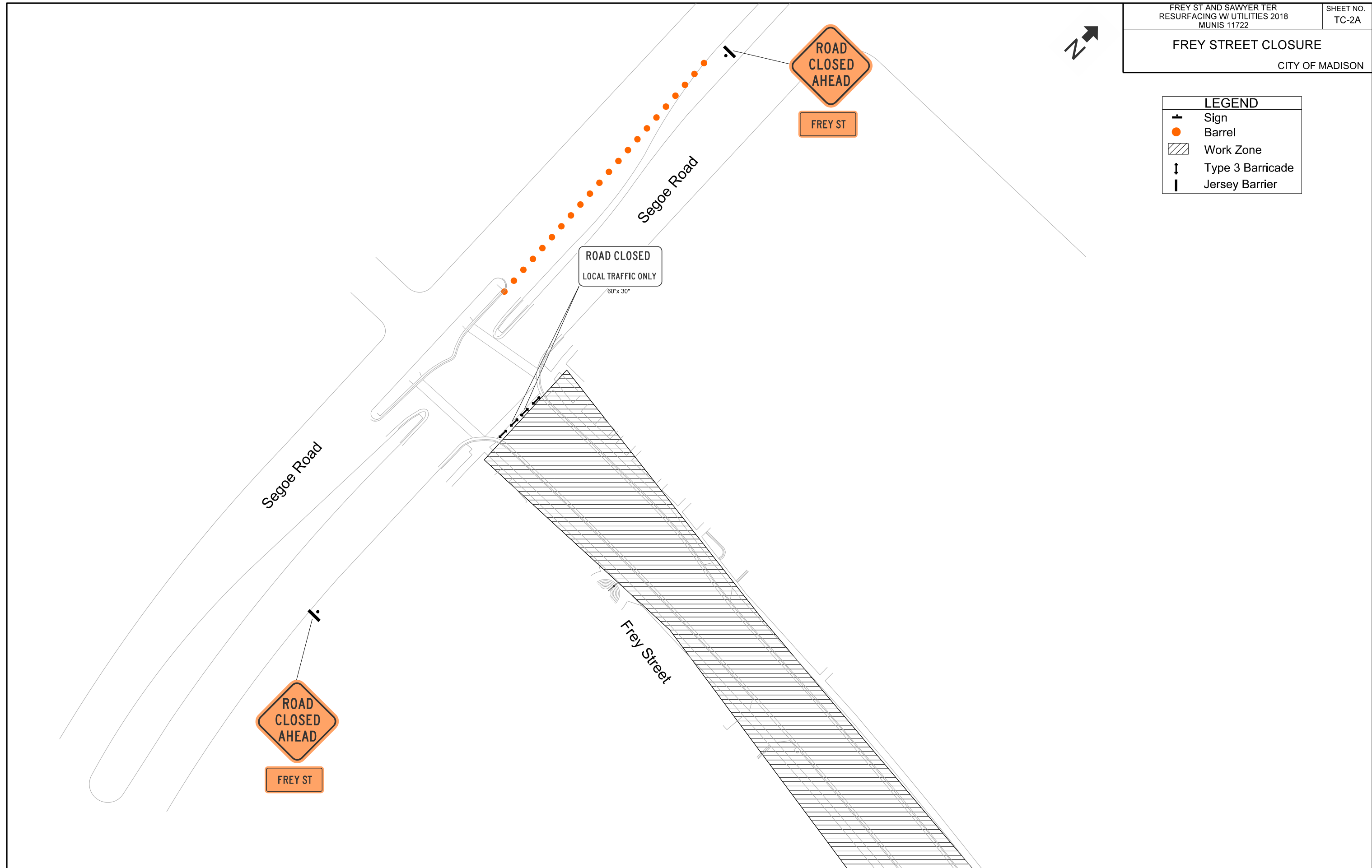


FREY STREET CLOSURE

CITY OF MADISON

LEGEND

- Sign
- Barrel
- Work Zone
- Type 3 Barricade
- Jersey Barrier



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.





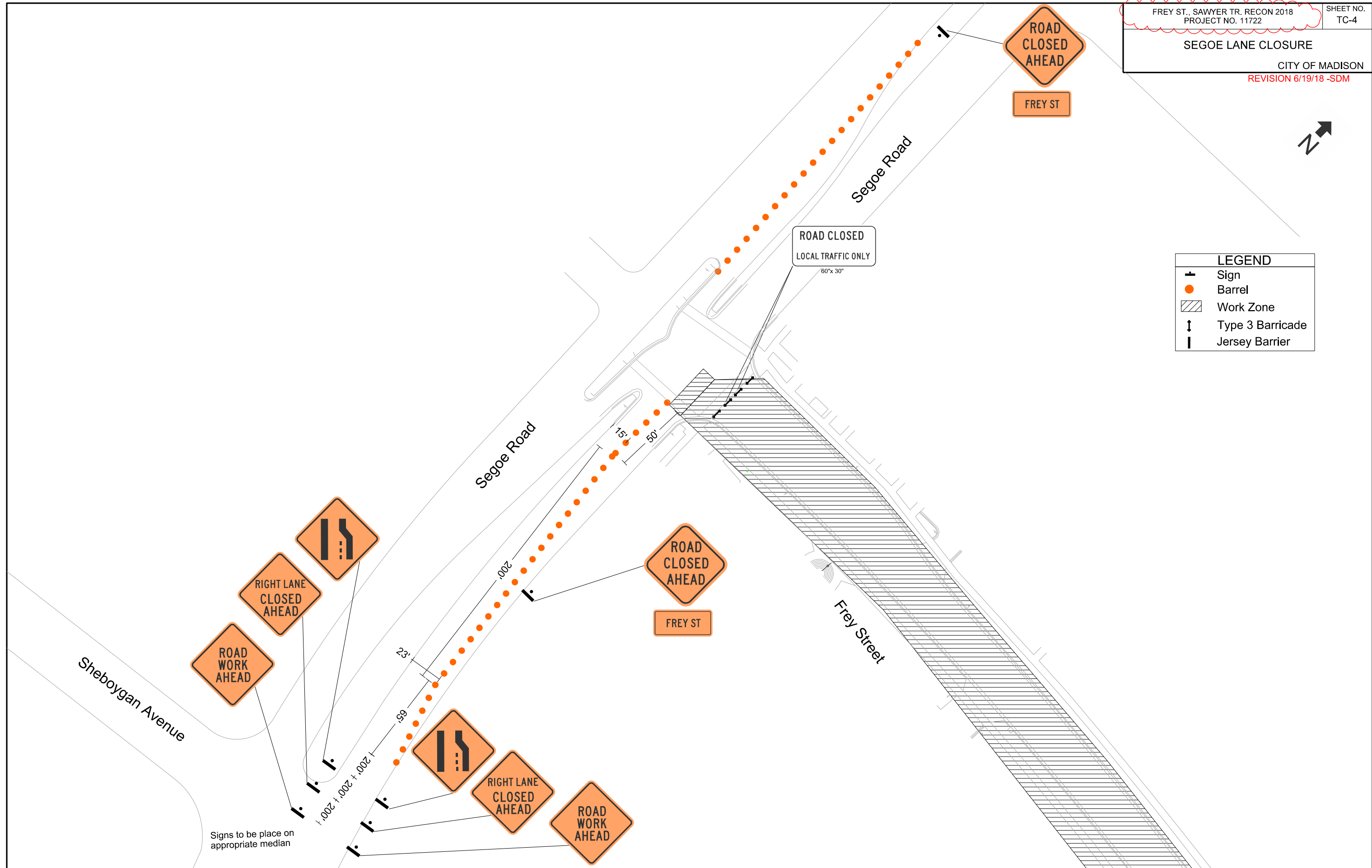
SEGOE LANE CLOSURE

CITY OF MADISON

REVISION 6/19/18 -SDM



LEGEND	
	Sign
	Barrel
	Work Zone
	Type 3 Barricade
	Jersey Barrier



Signs to be place on appropriate median

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

CROSS SECTIONS

FREY STREET

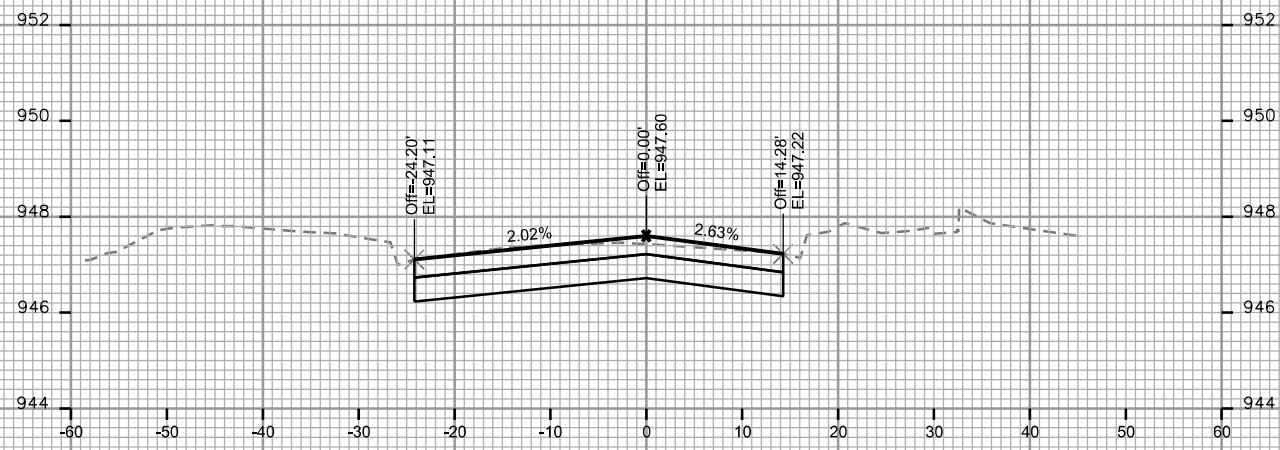
CITY OF MADISON

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

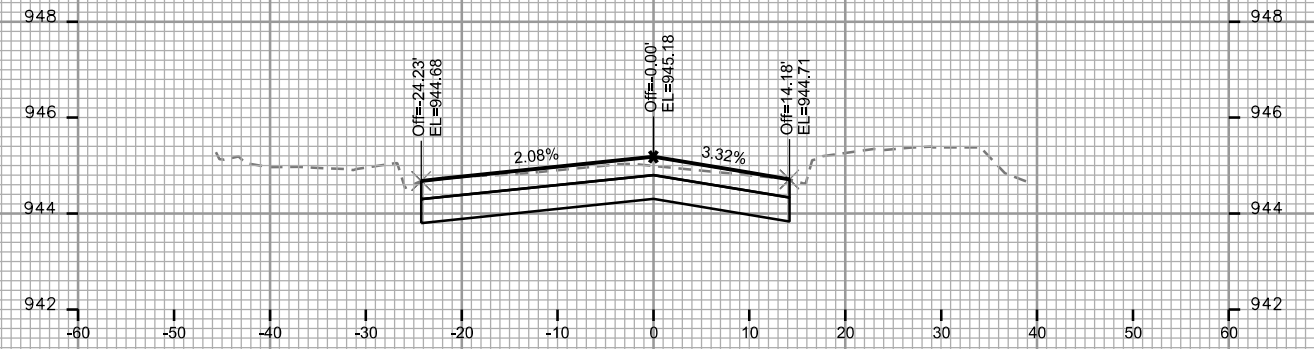
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REV. DATE: \_\_\_\_\_

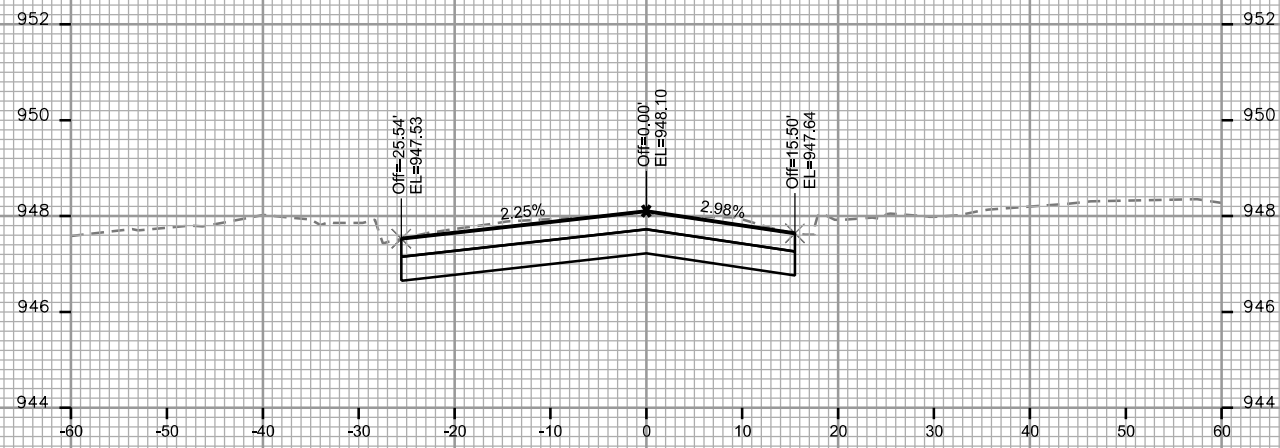
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



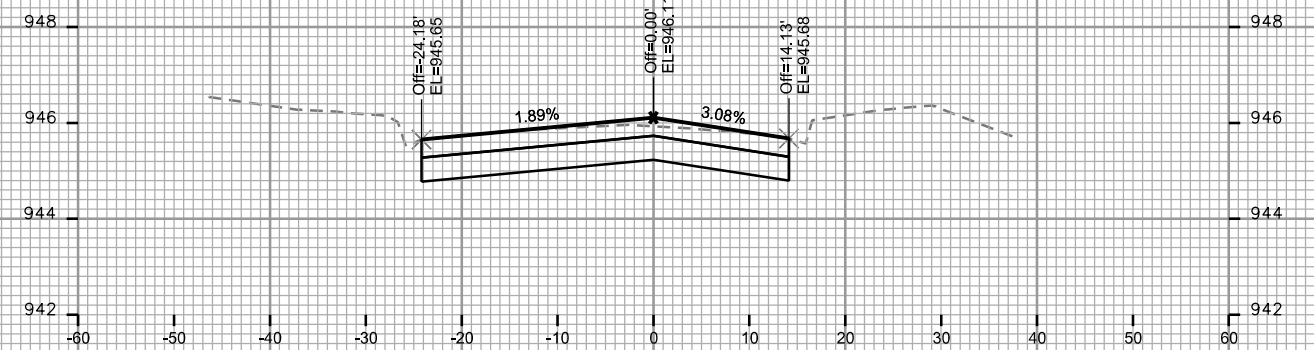
STA. 201+25



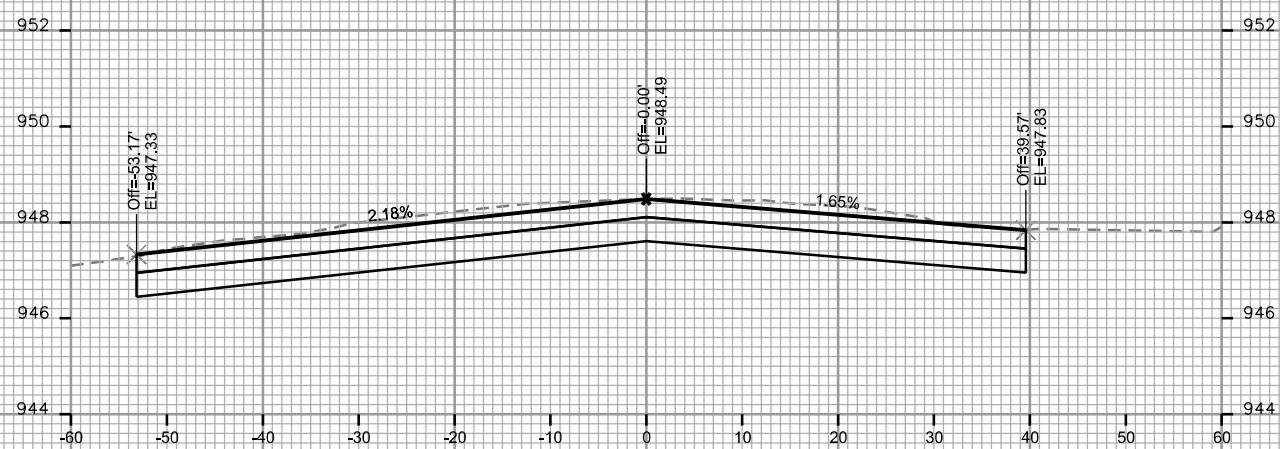
STA. 202+00



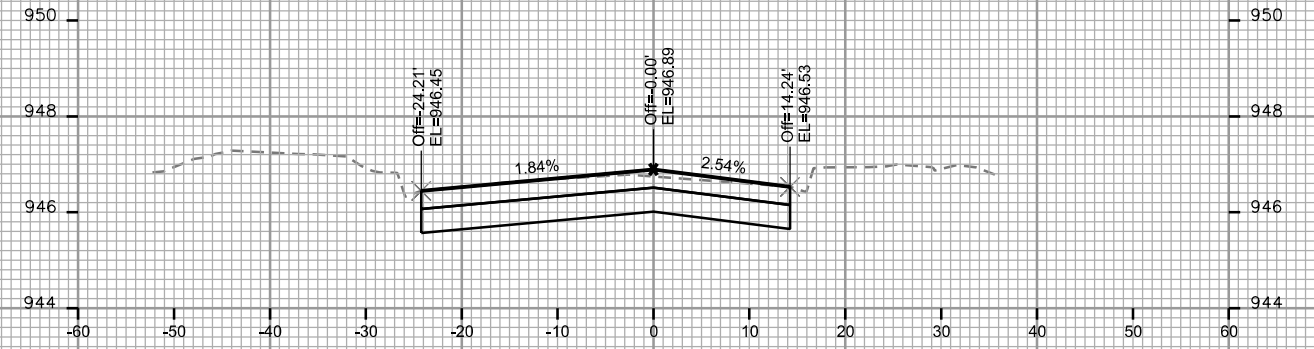
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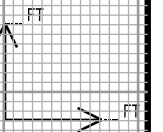
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STA. 200+81



STA. 201+50



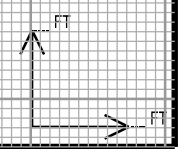
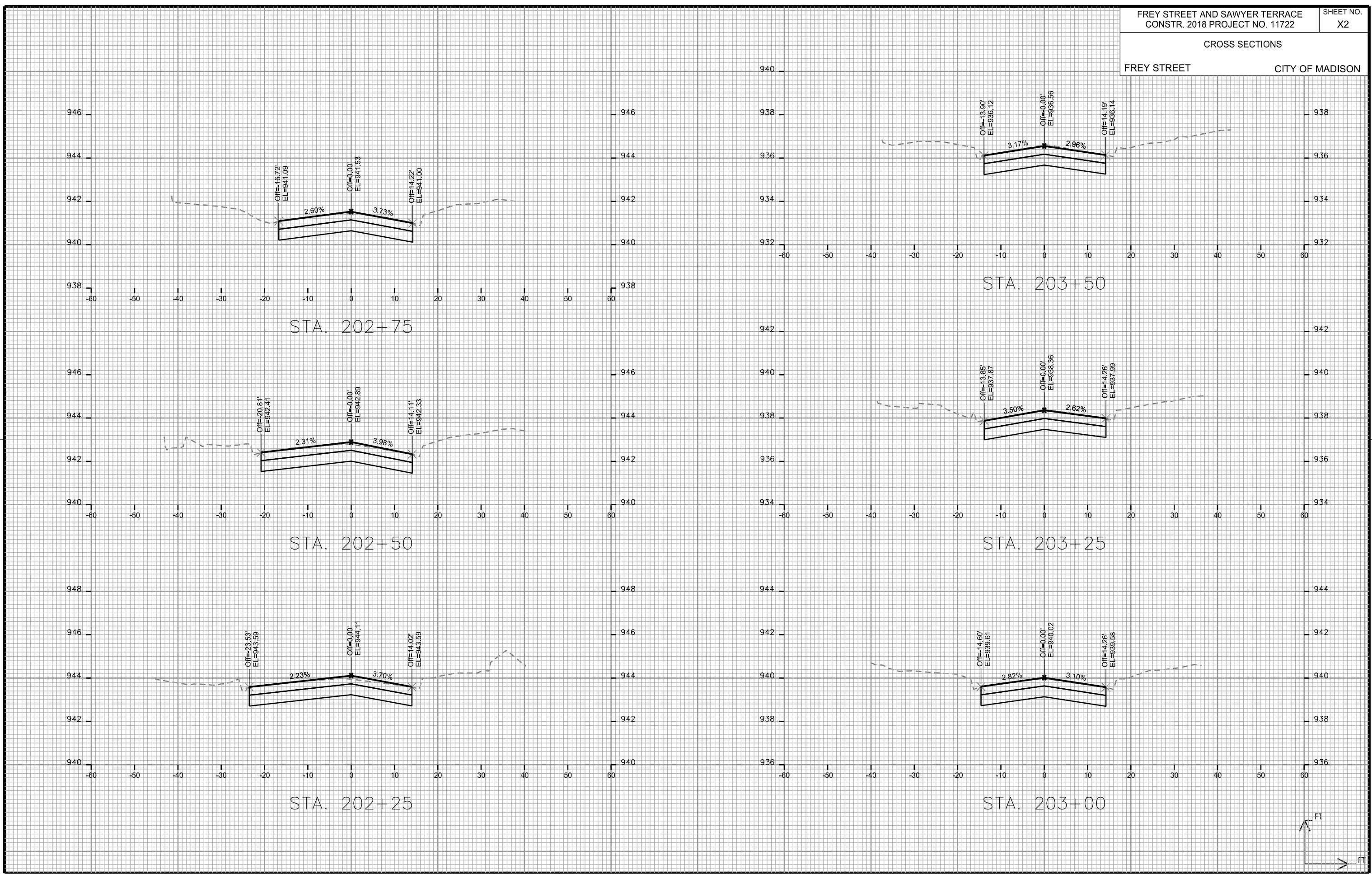
CROSS SECTIONS  
FREY STREET CITY OF MADISON

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

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

FREY STREET

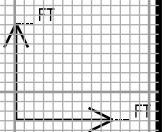
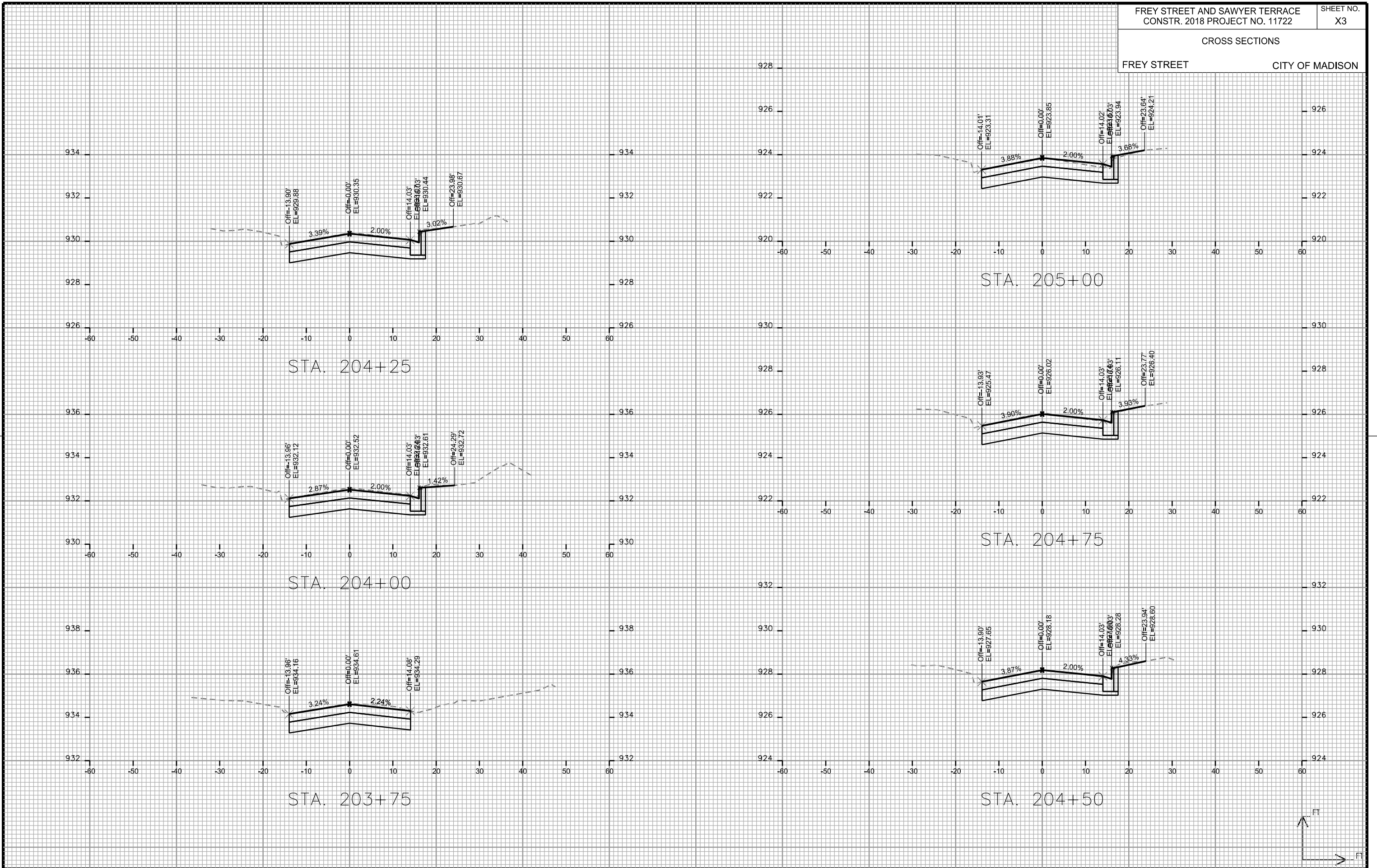
CITY OF MADISON

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

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

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

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



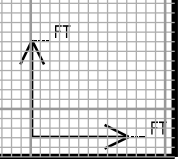
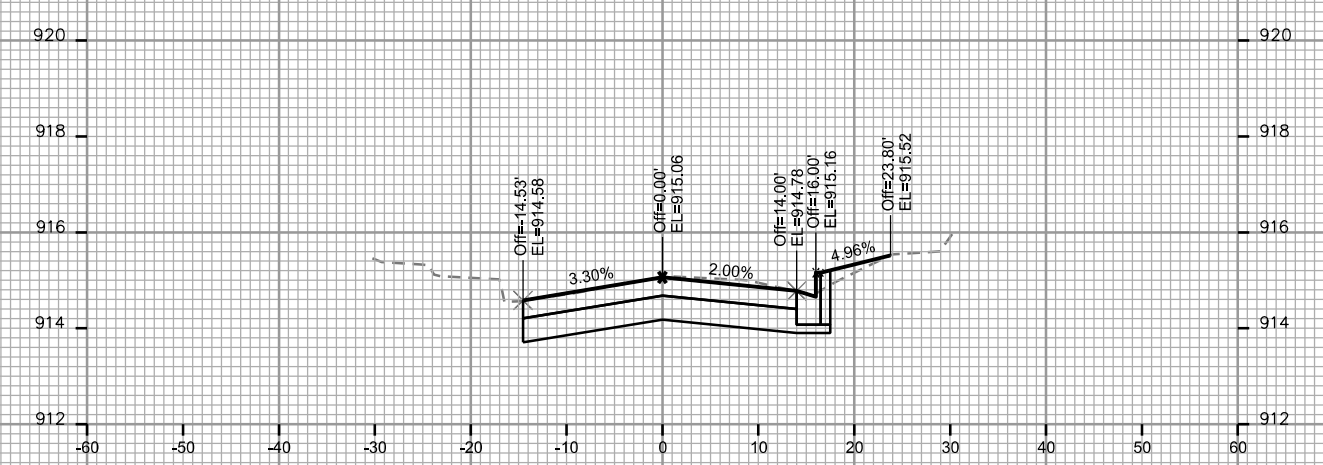
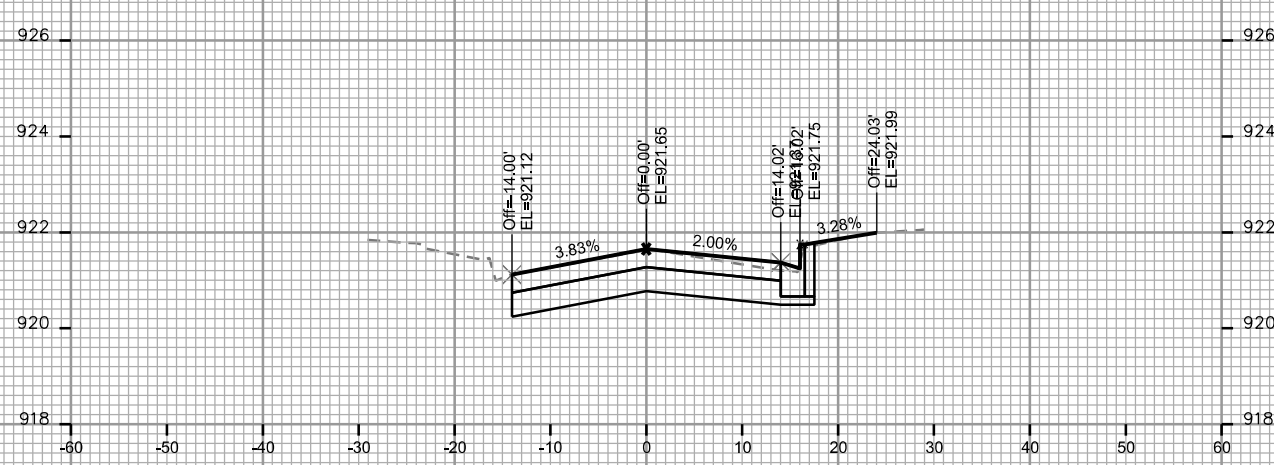
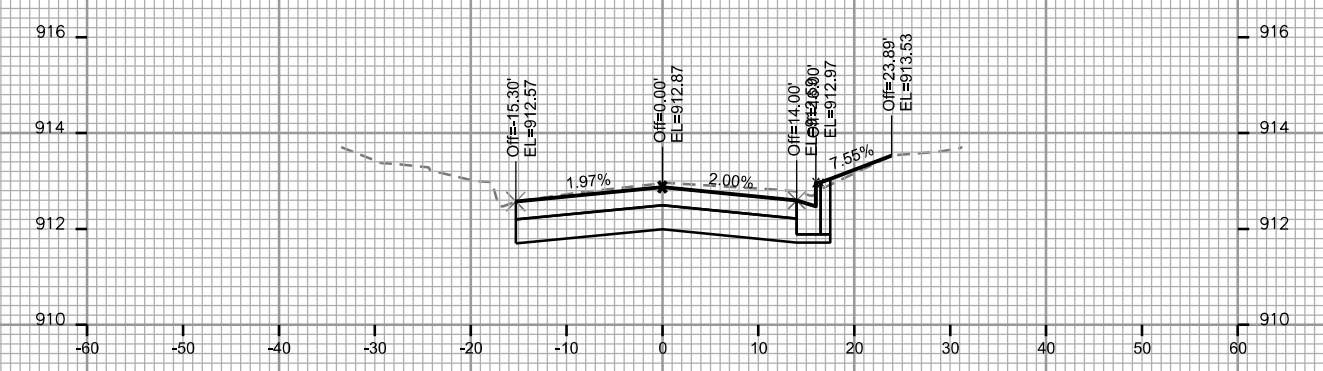
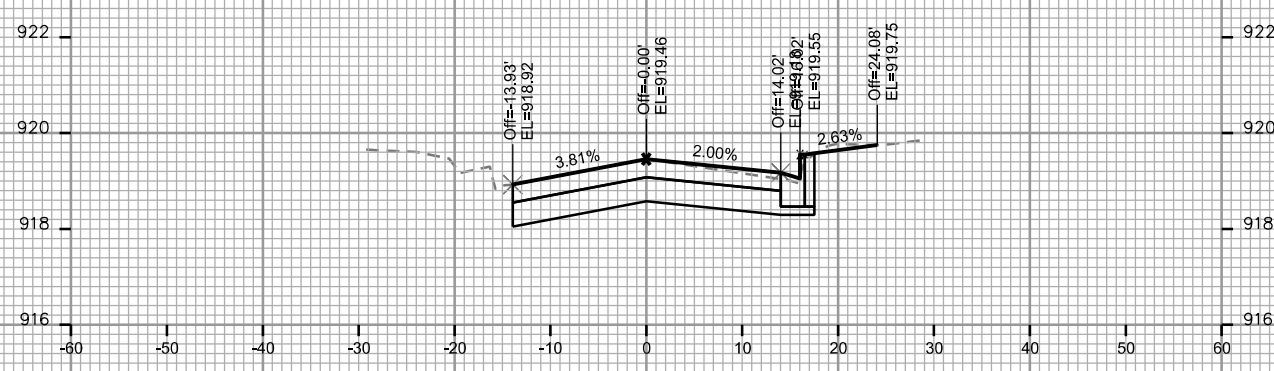
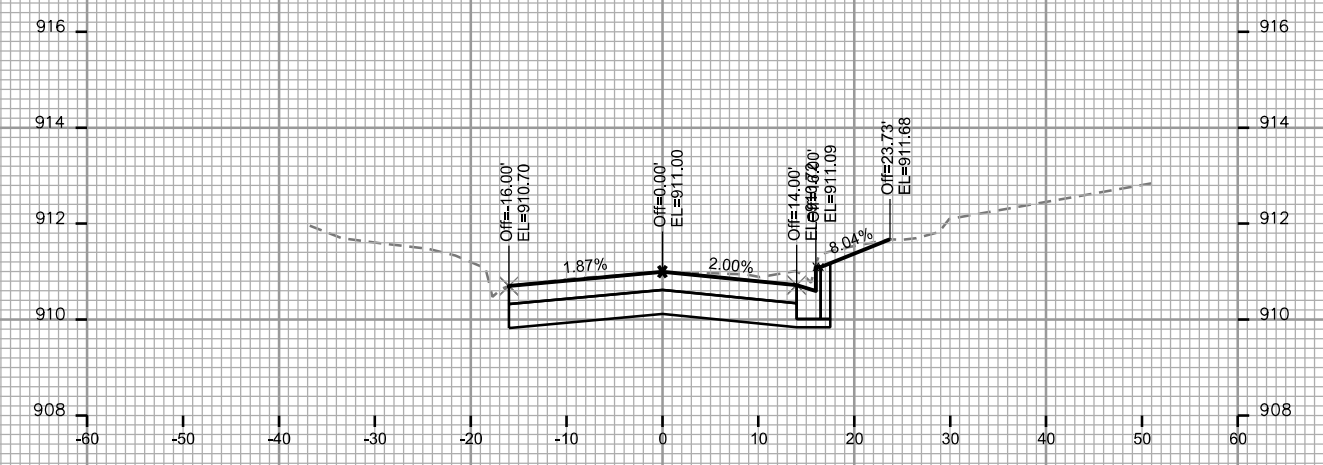
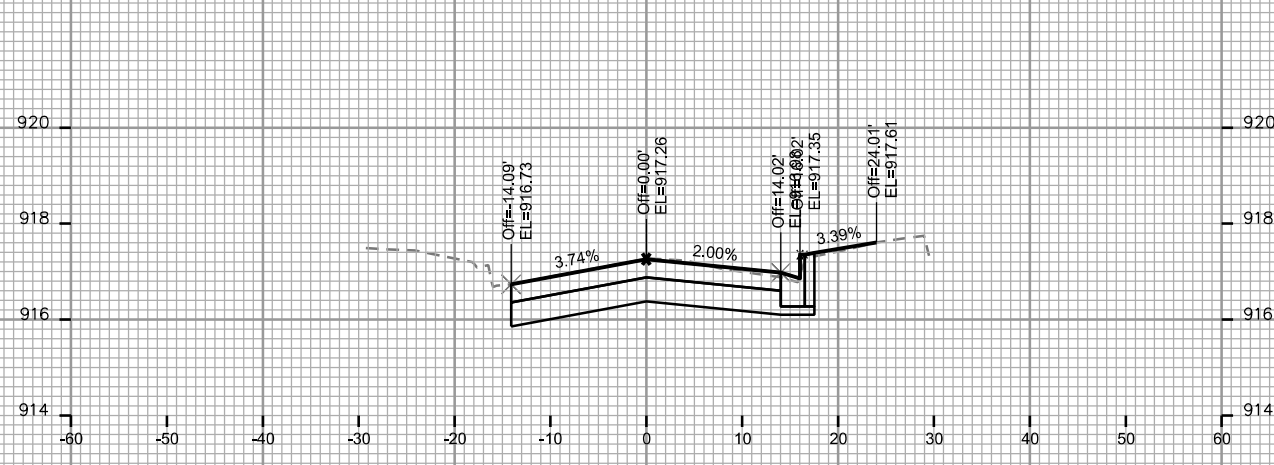


PLOT SCALE: \_\_\_\_\_

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

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

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

FREY STREET

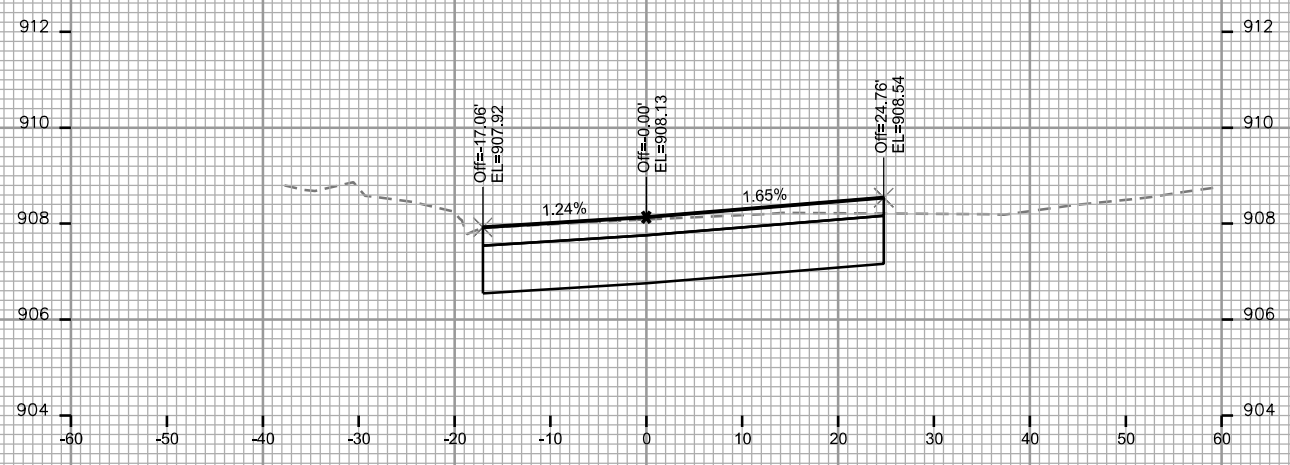
CITY OF MADISON

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

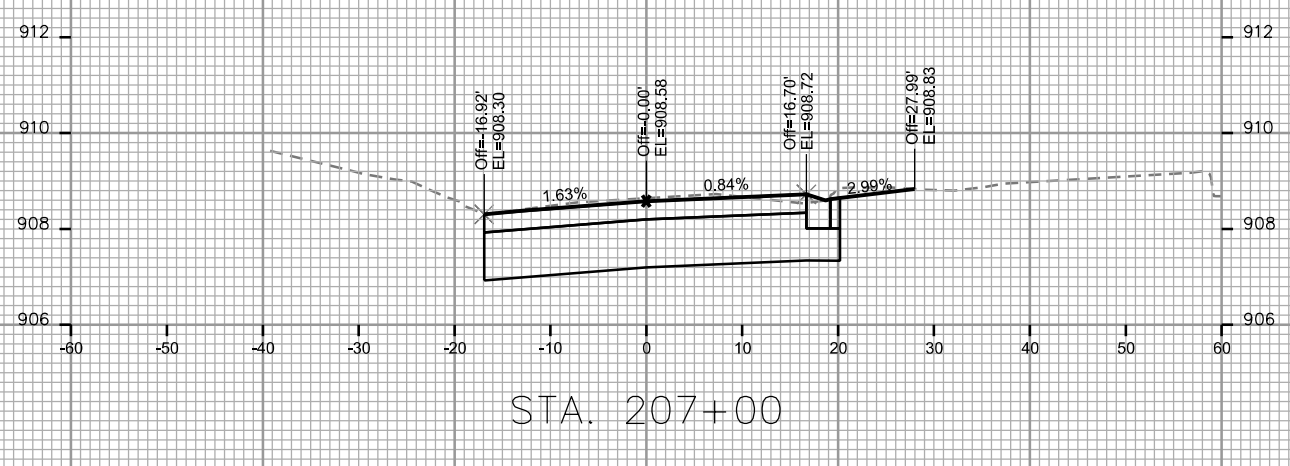
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REV. DATE: \_\_\_\_\_

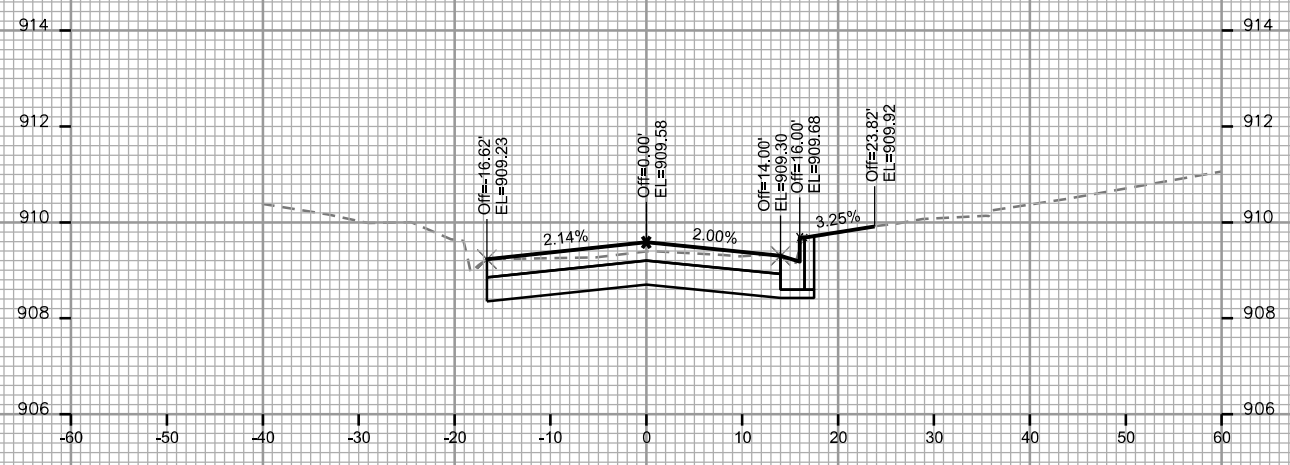
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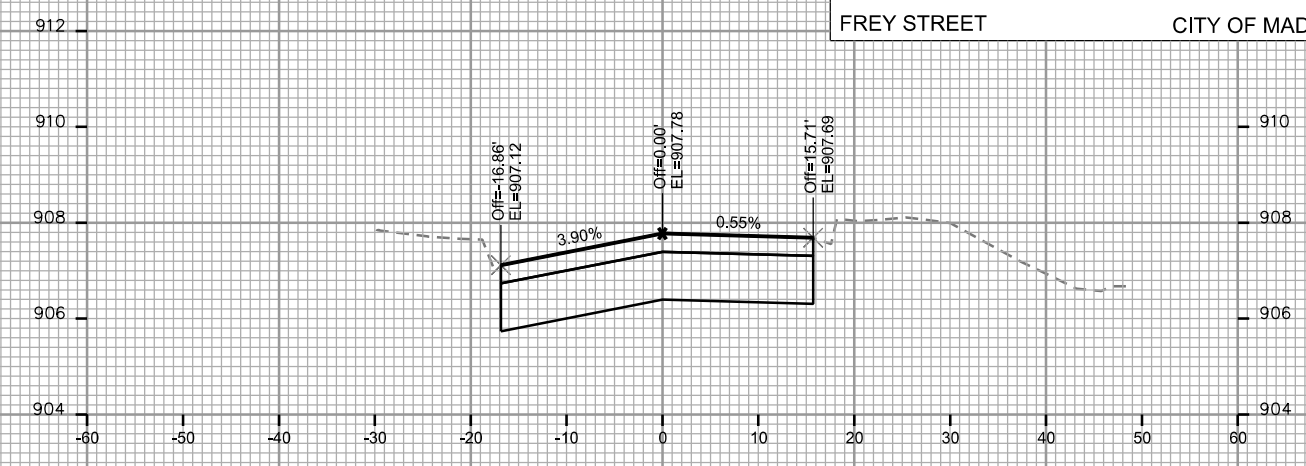
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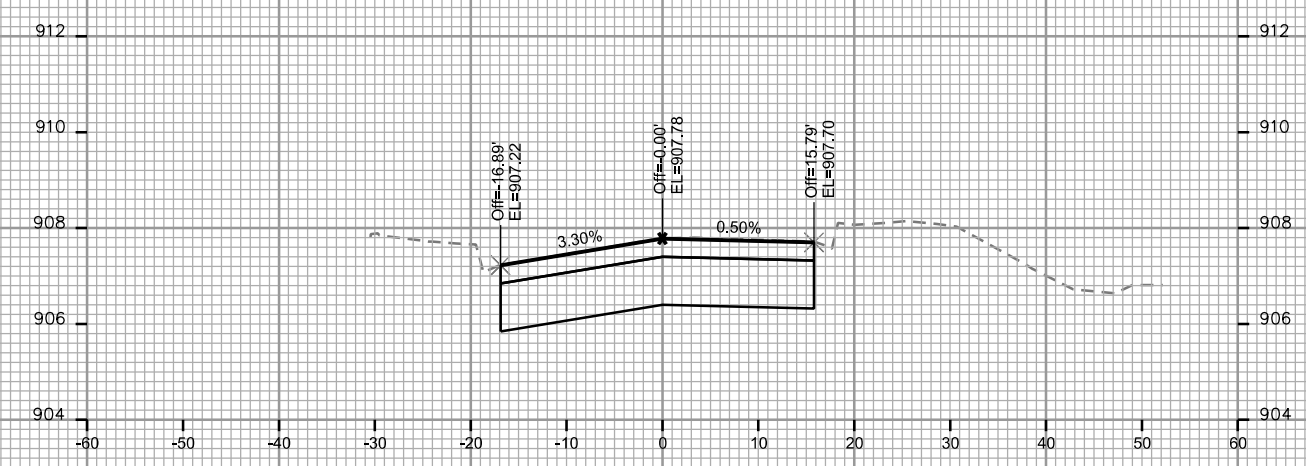
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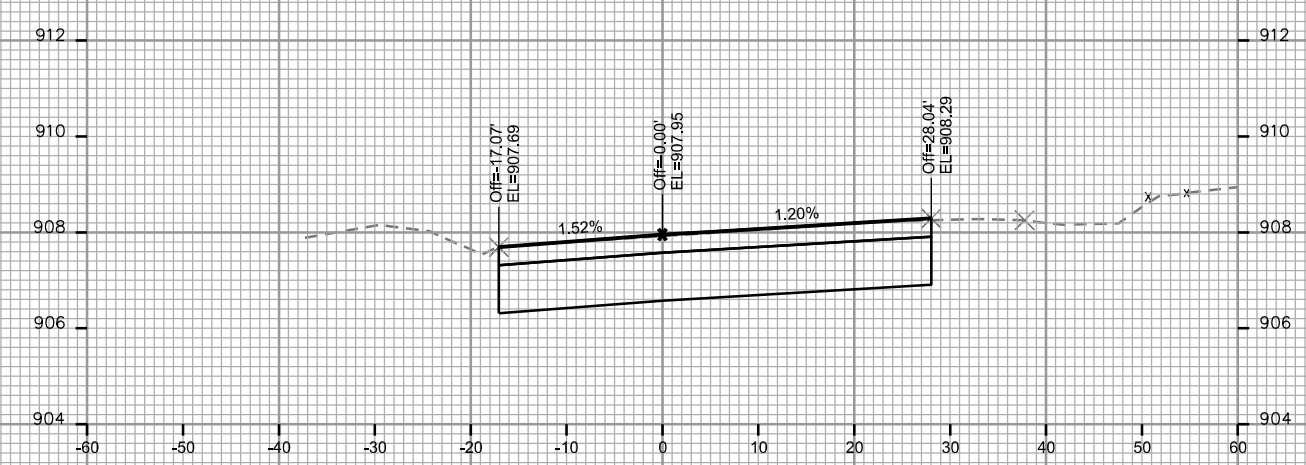
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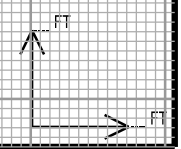
STA. 207+76



STA. 207+75



STA. 207+50



CROSS SECTIONS

SAWYER TERRACE

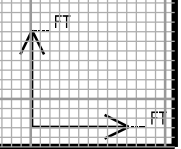
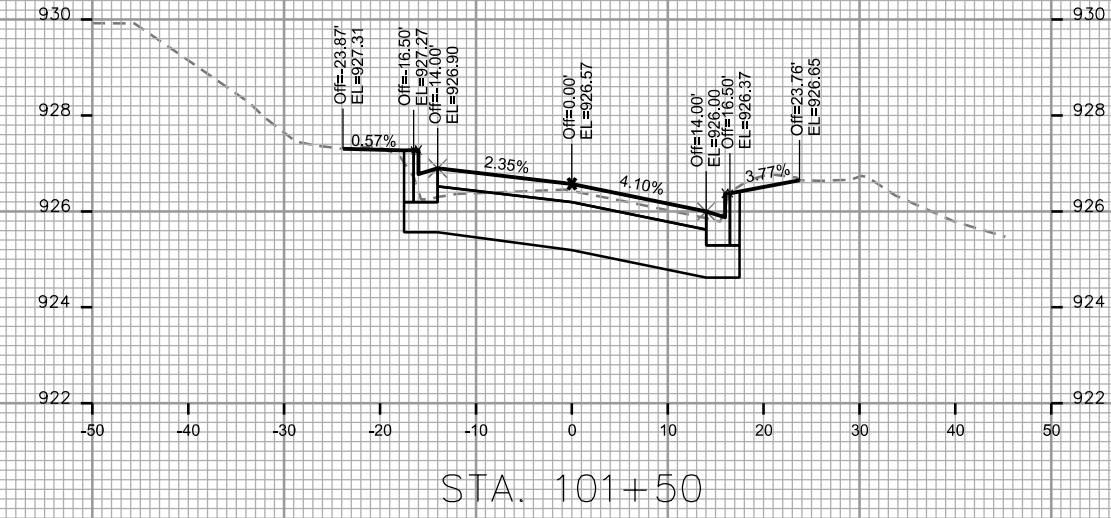
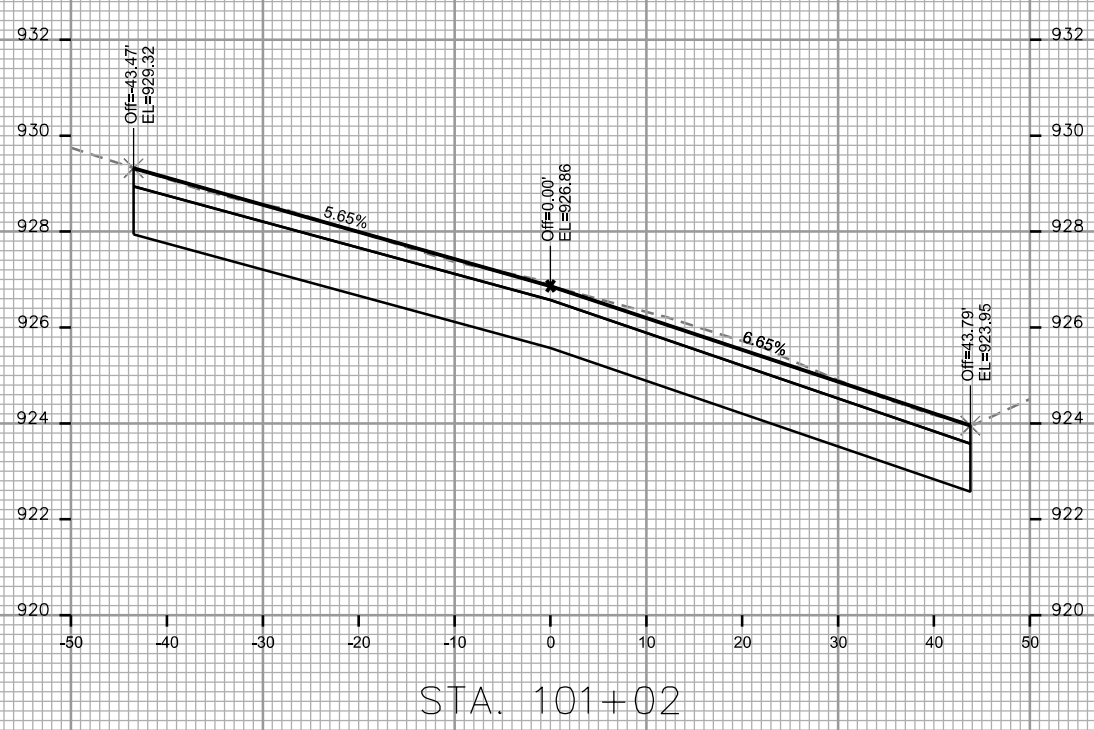
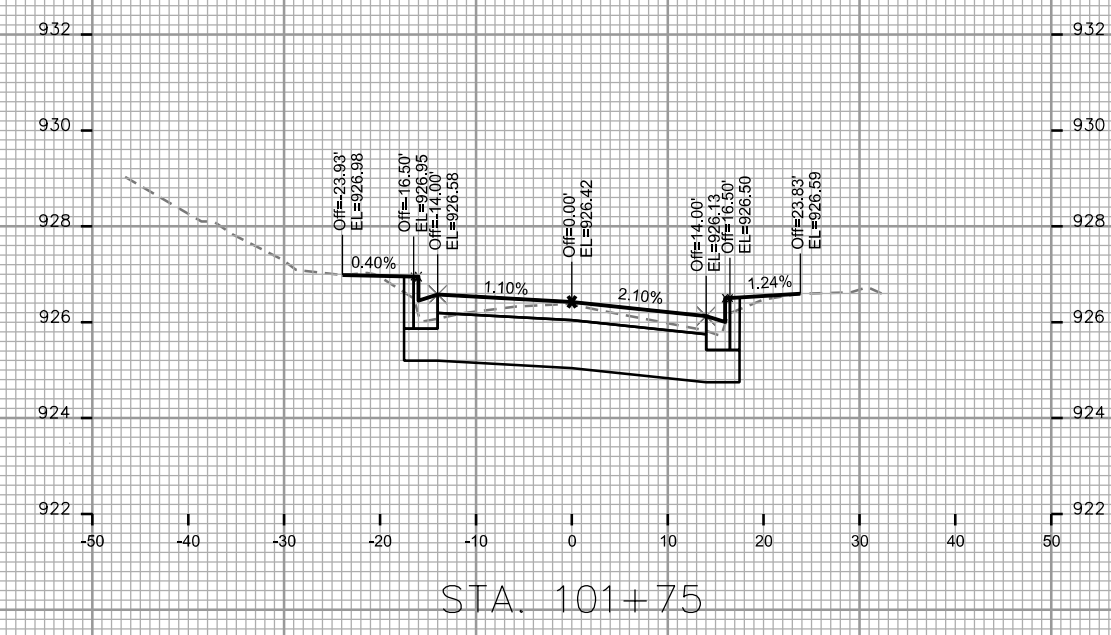
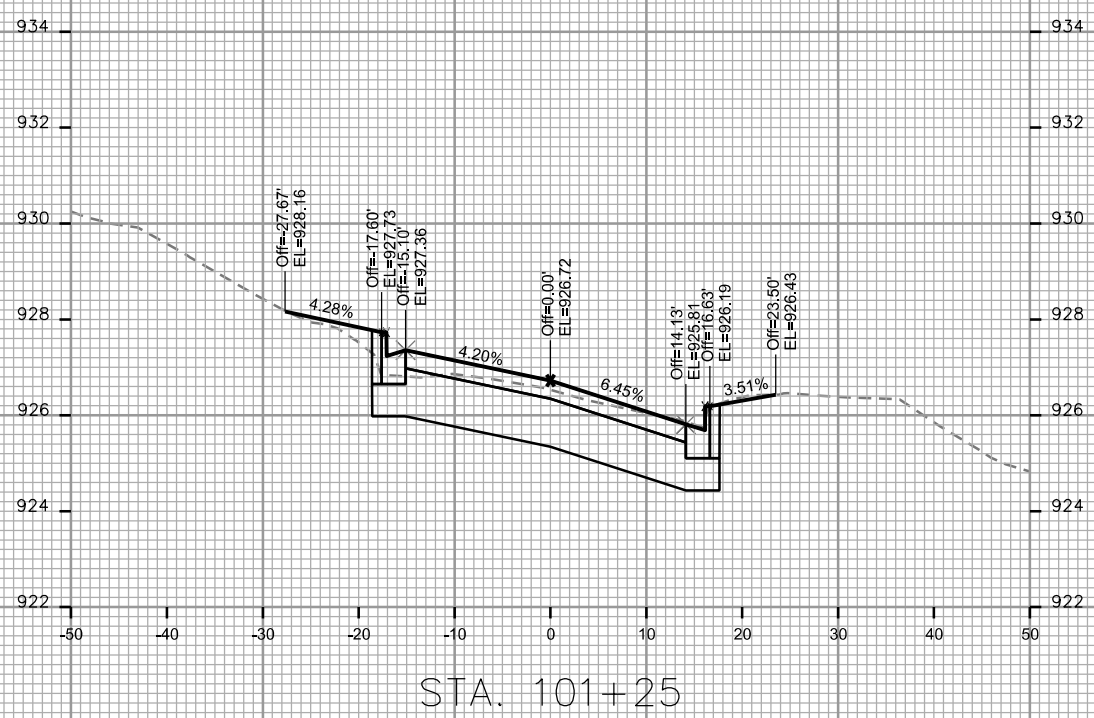
CITY OF MADISON

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

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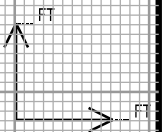
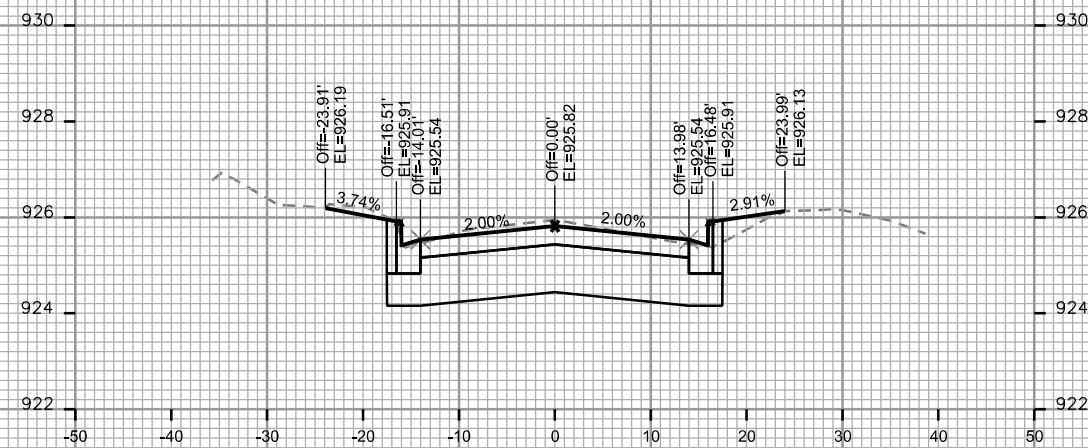
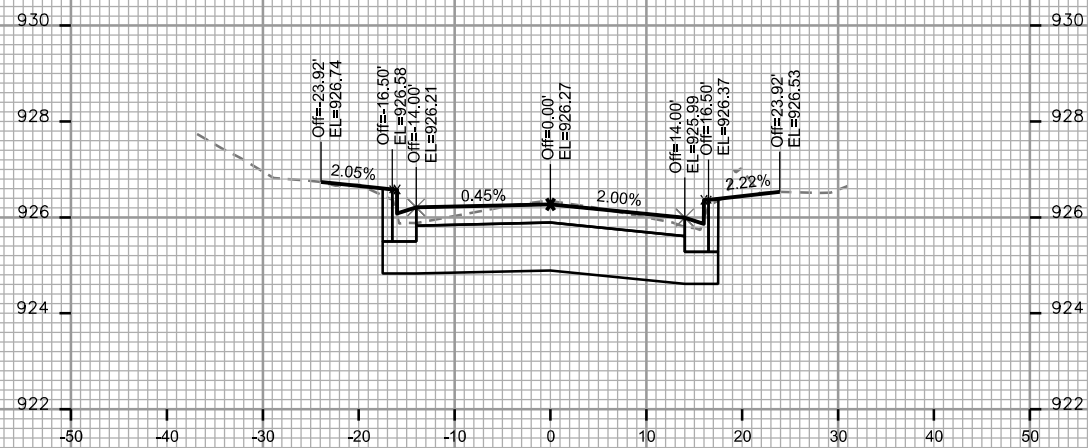
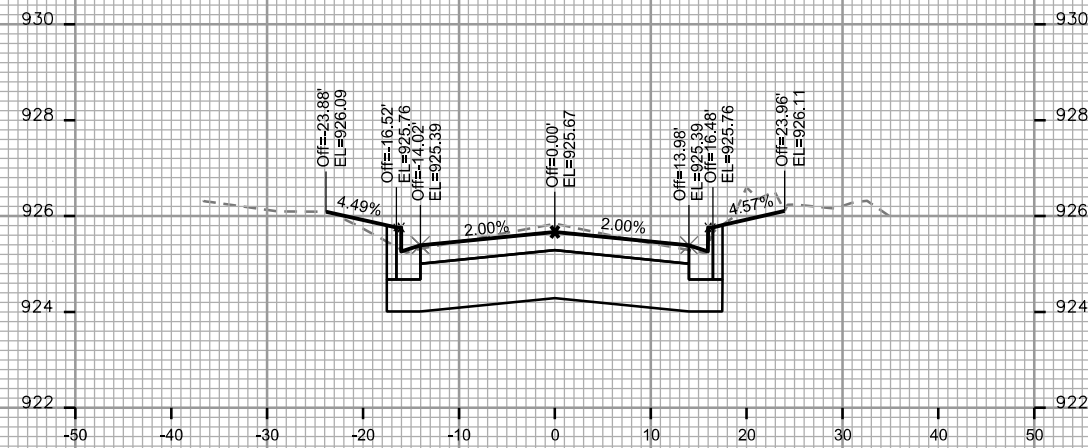
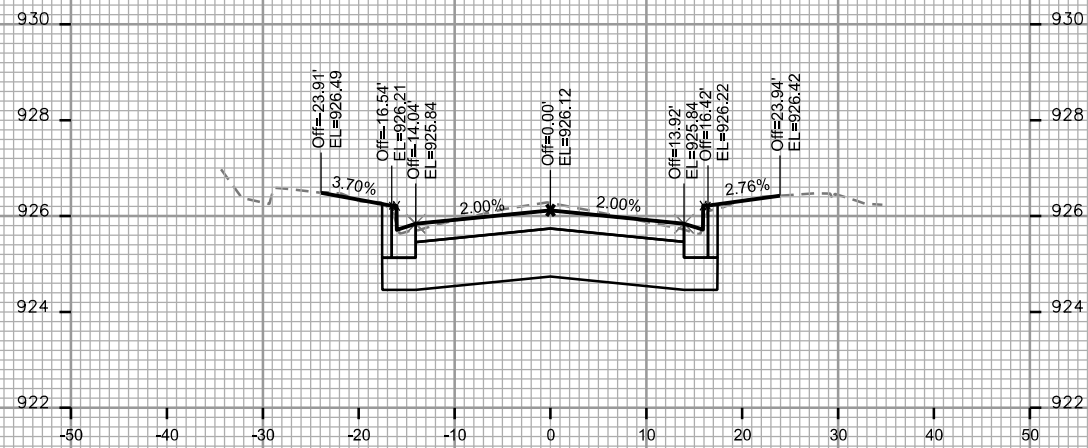
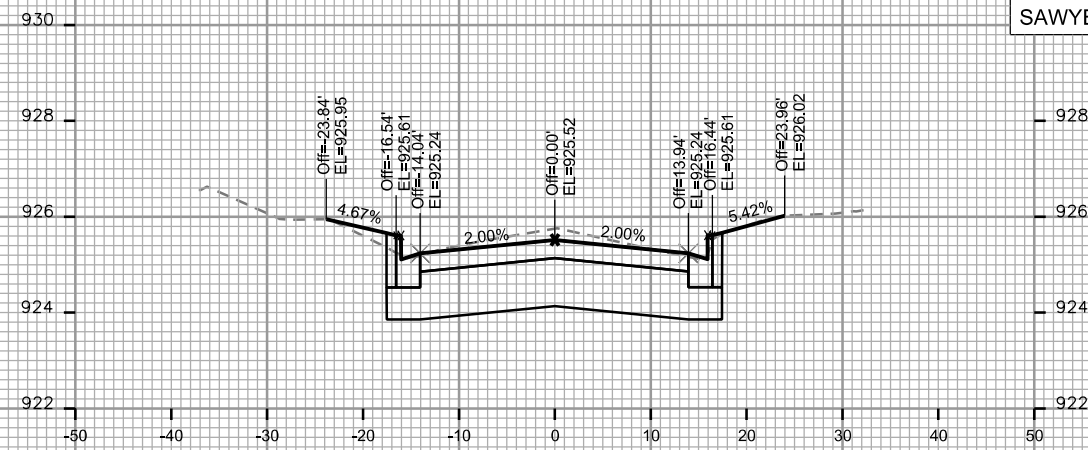
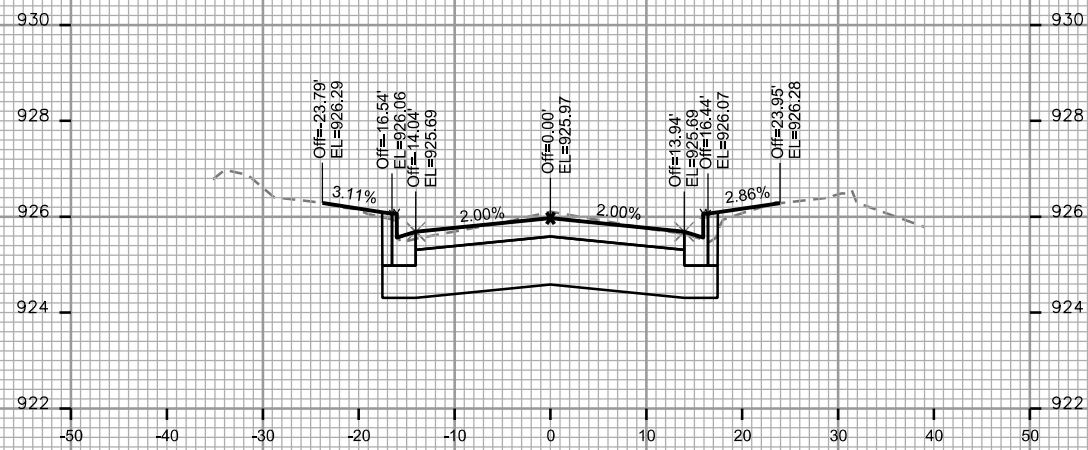
ORIGINATOR: CITY OF MADISON - STREETS DIVISION



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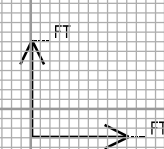
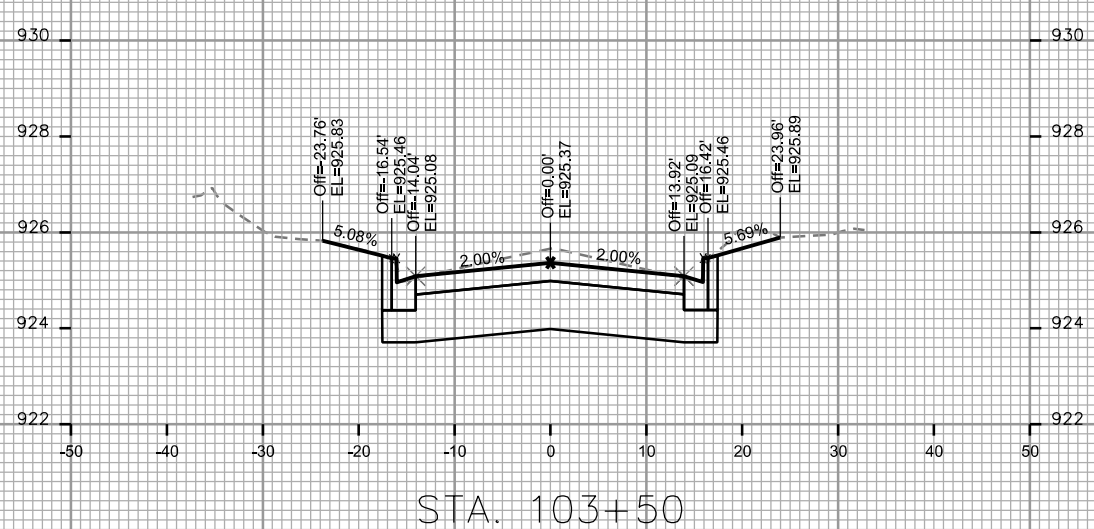
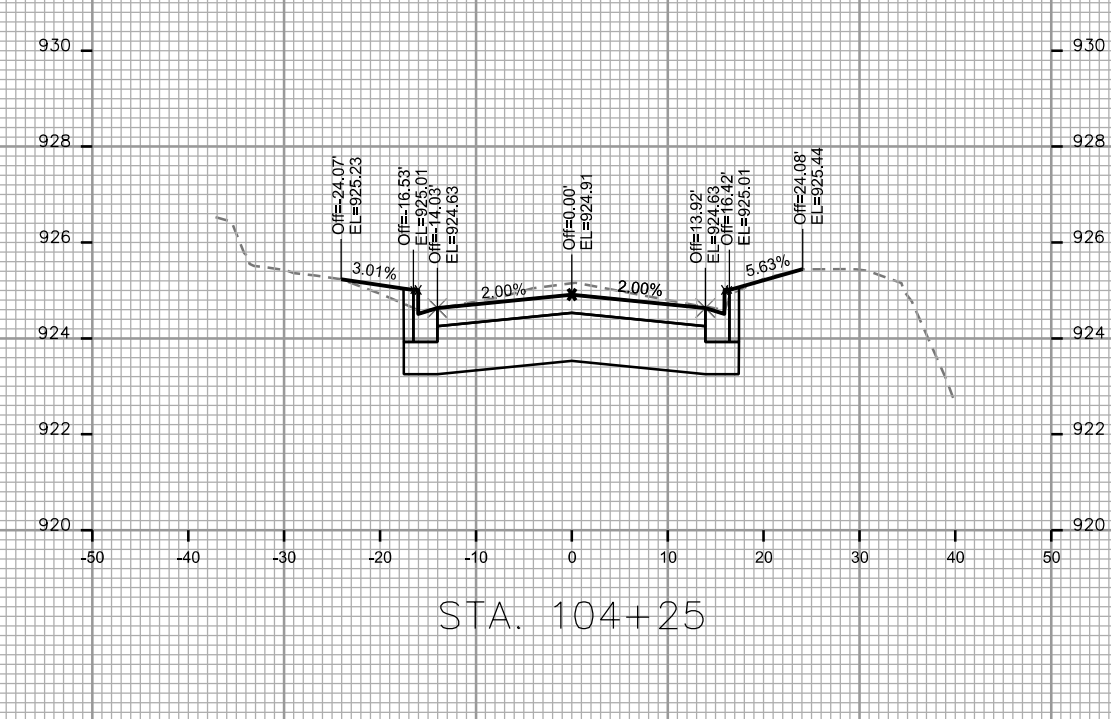
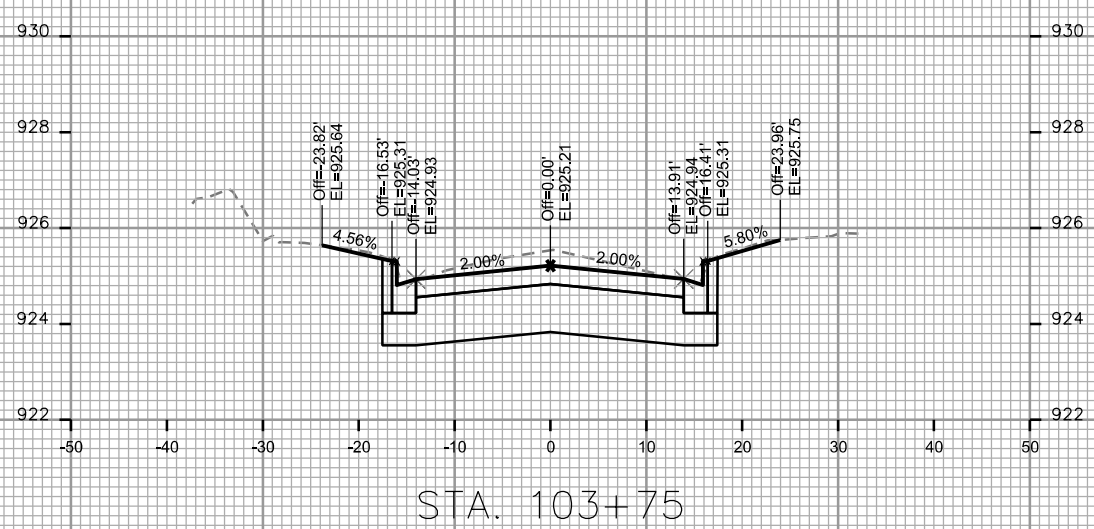
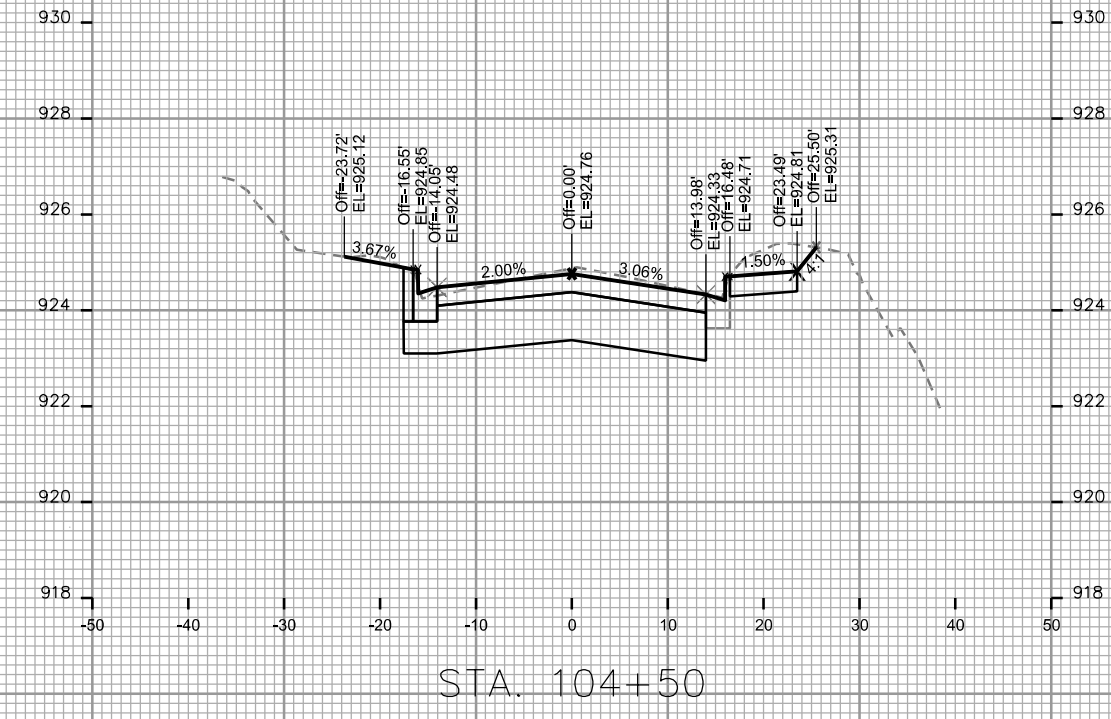
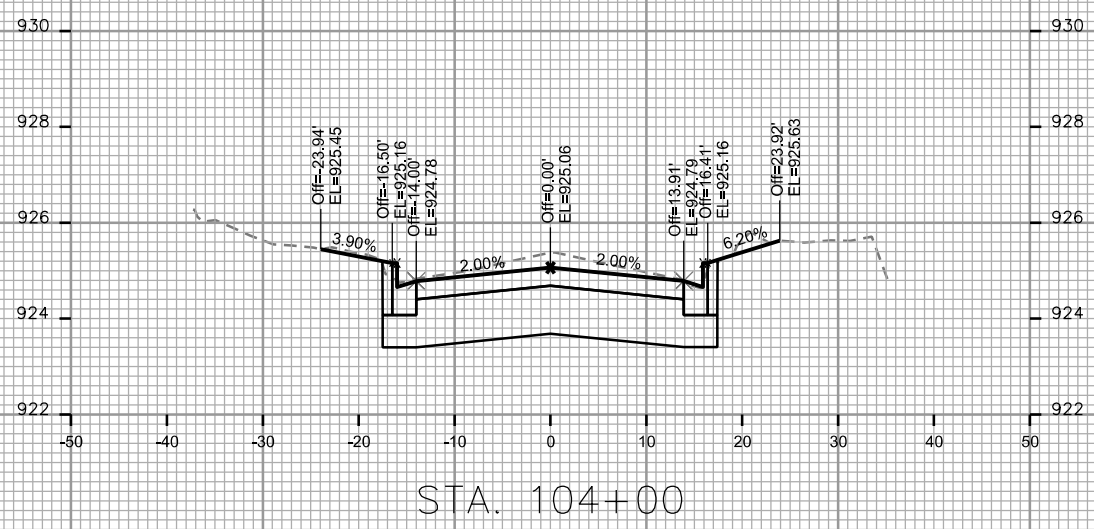
CITY OF MADISON

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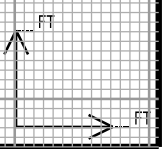
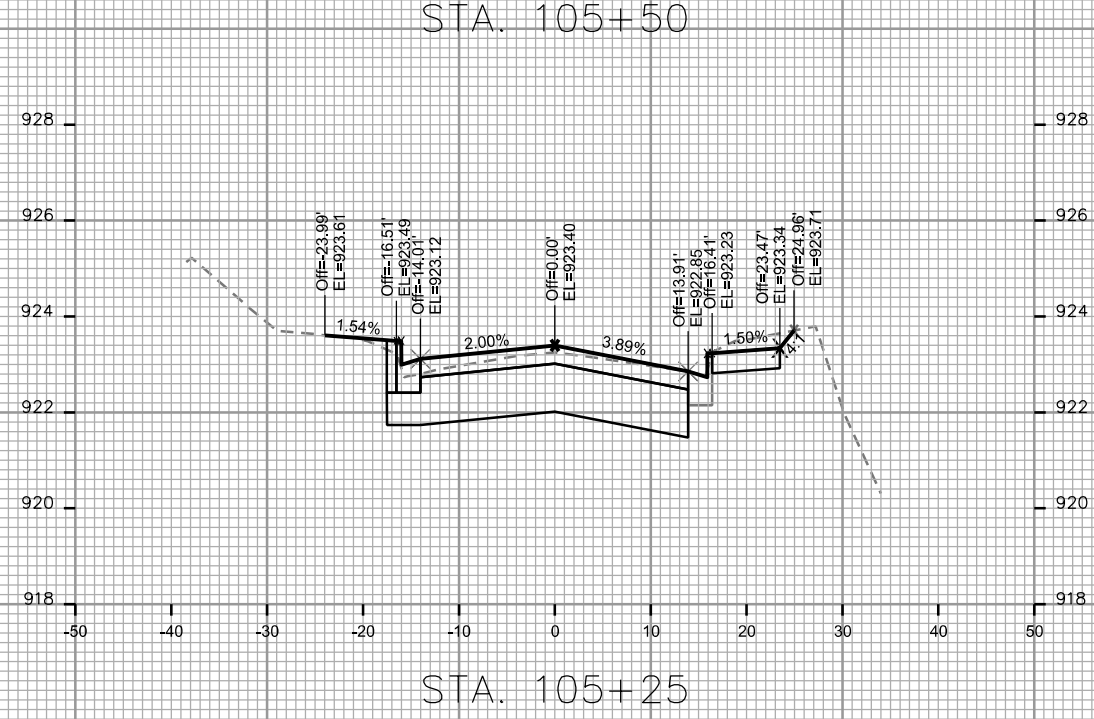
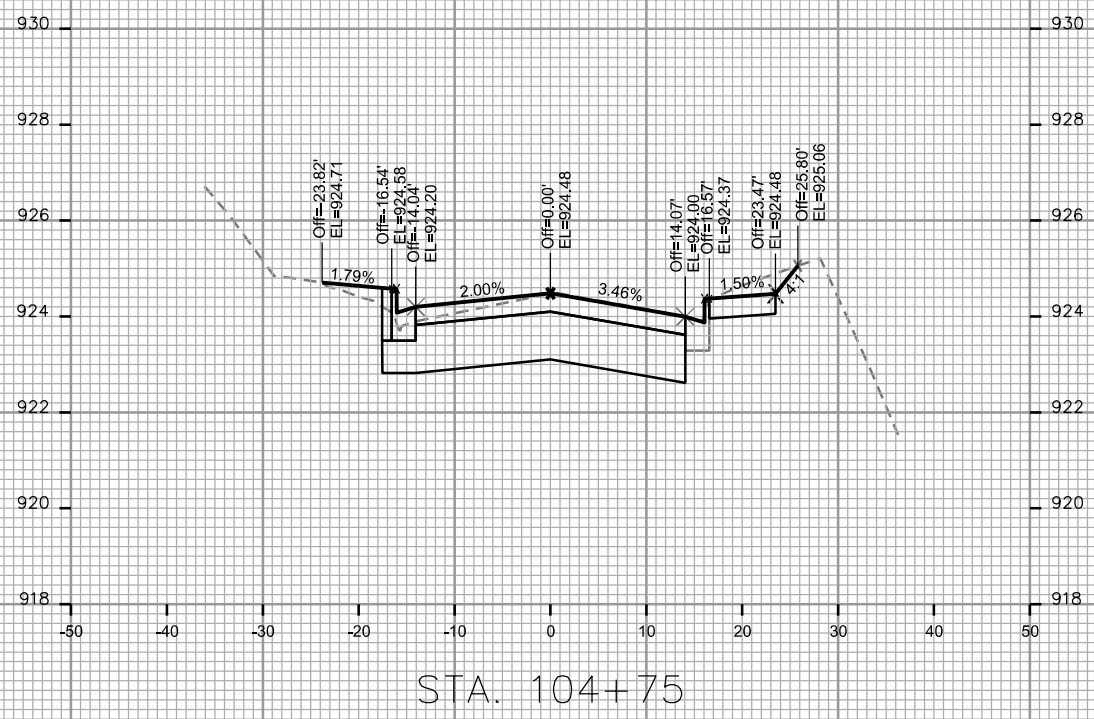
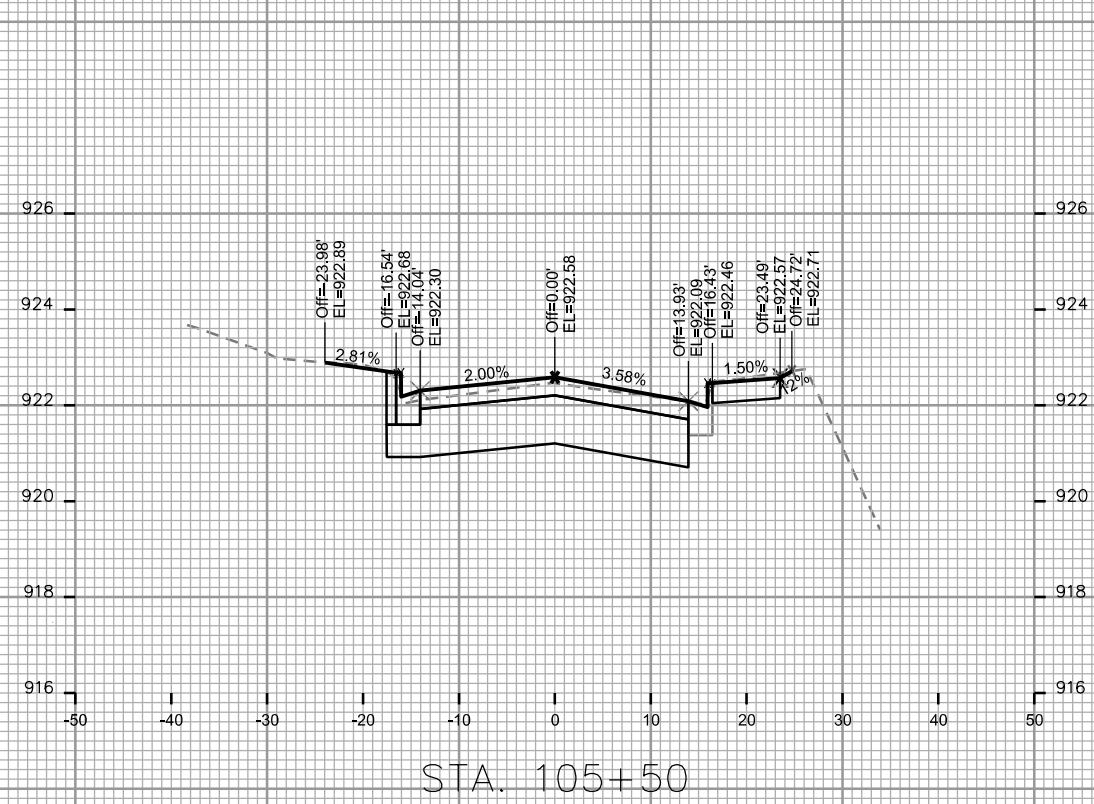
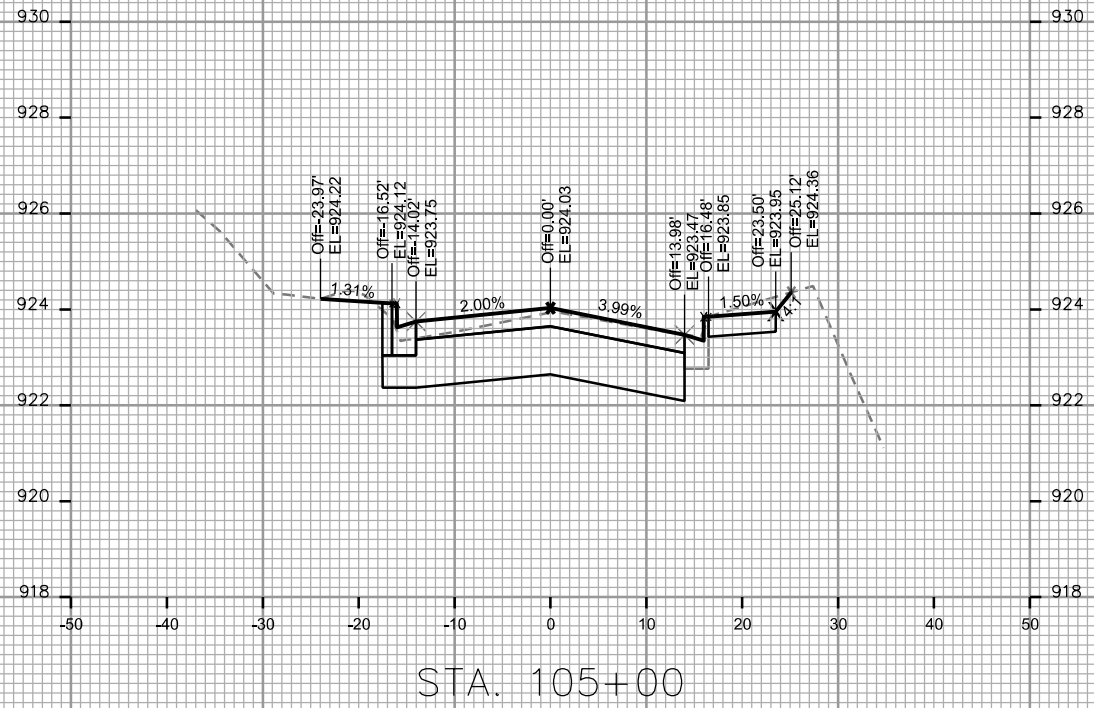
CITY OF MADISON

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CROSS SECTIONS

SAWYER TERRACE

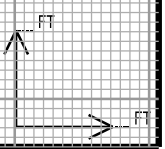
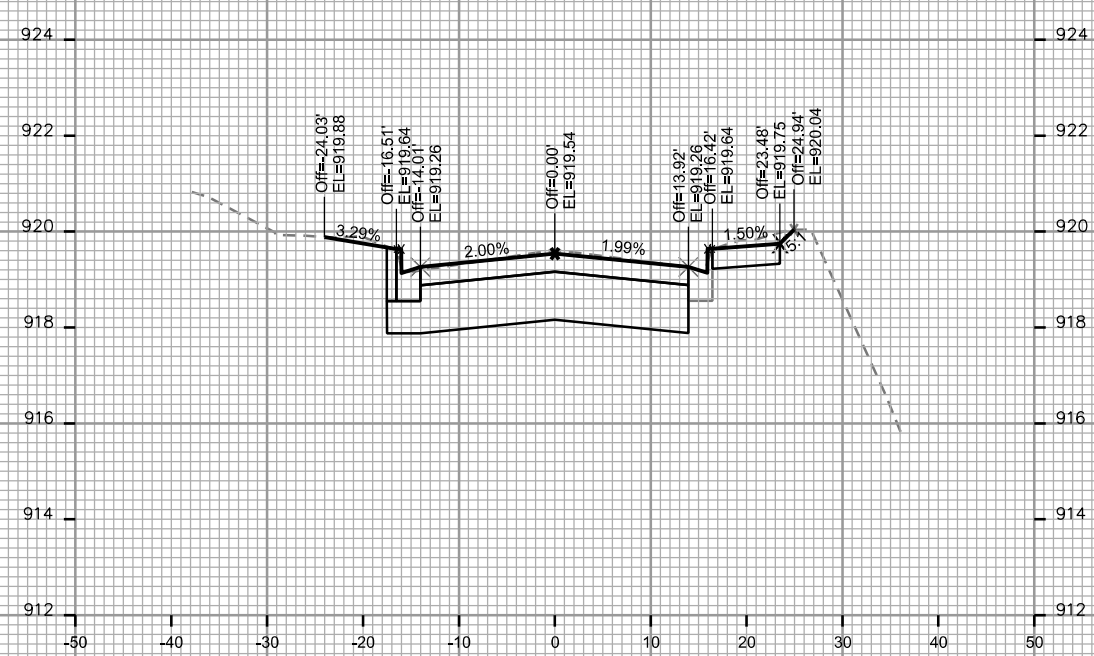
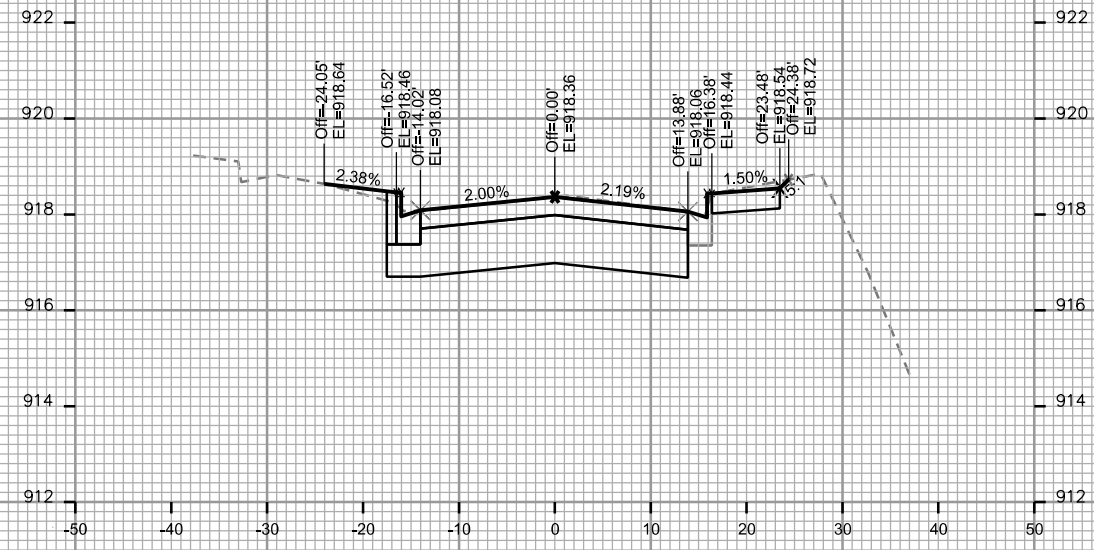
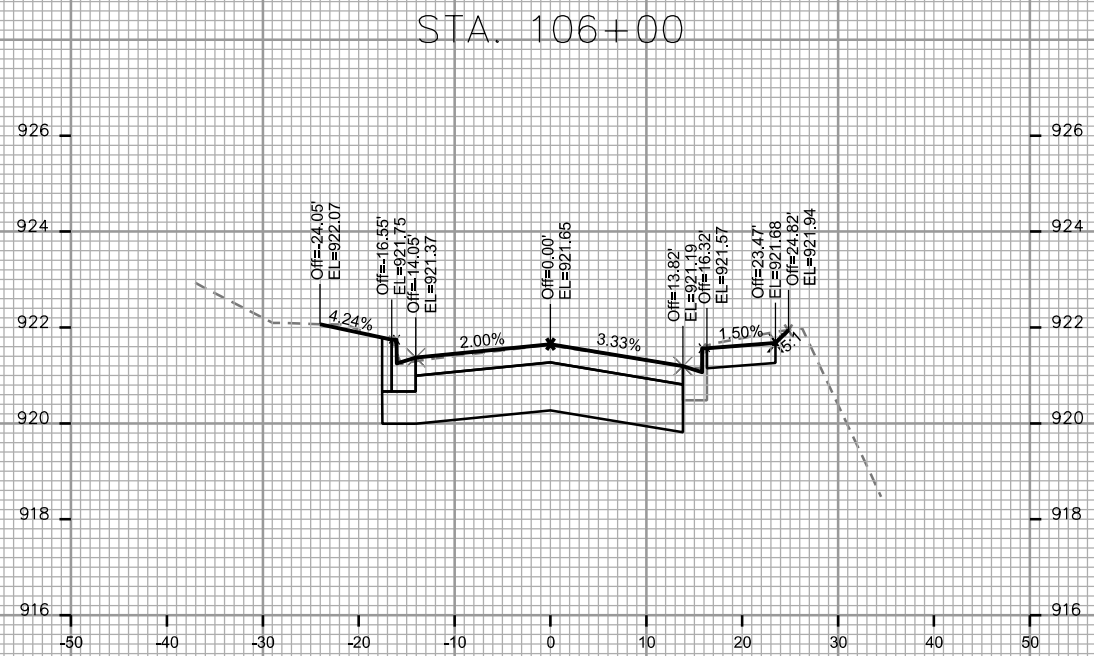
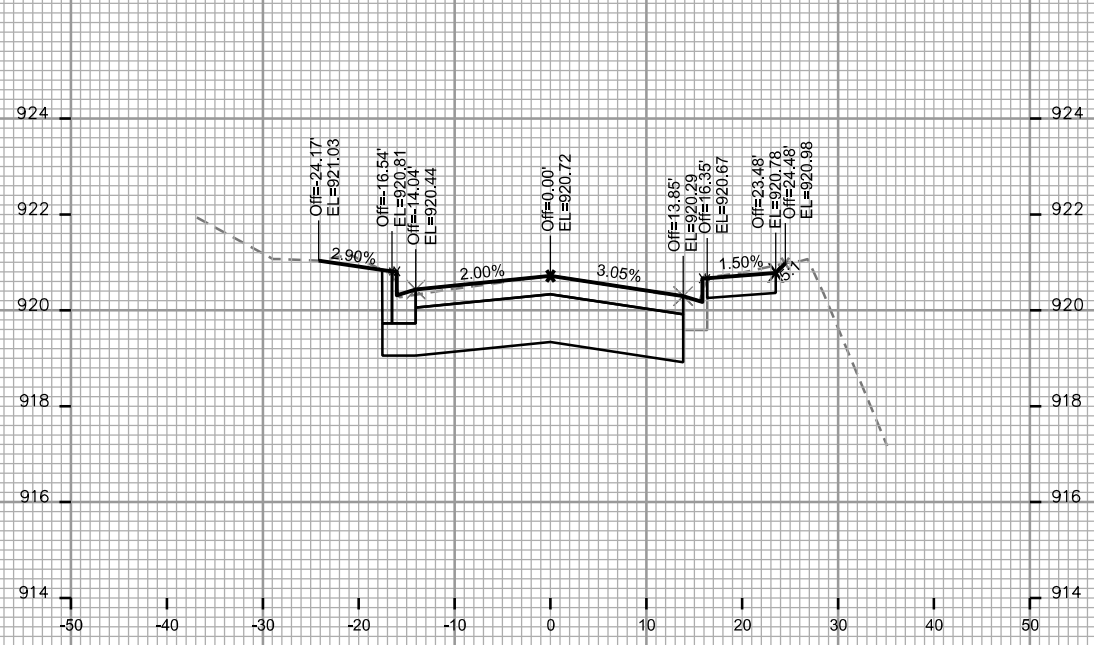
CITY OF MADISON

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SAWYER TERRACE

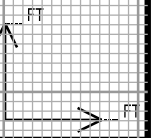
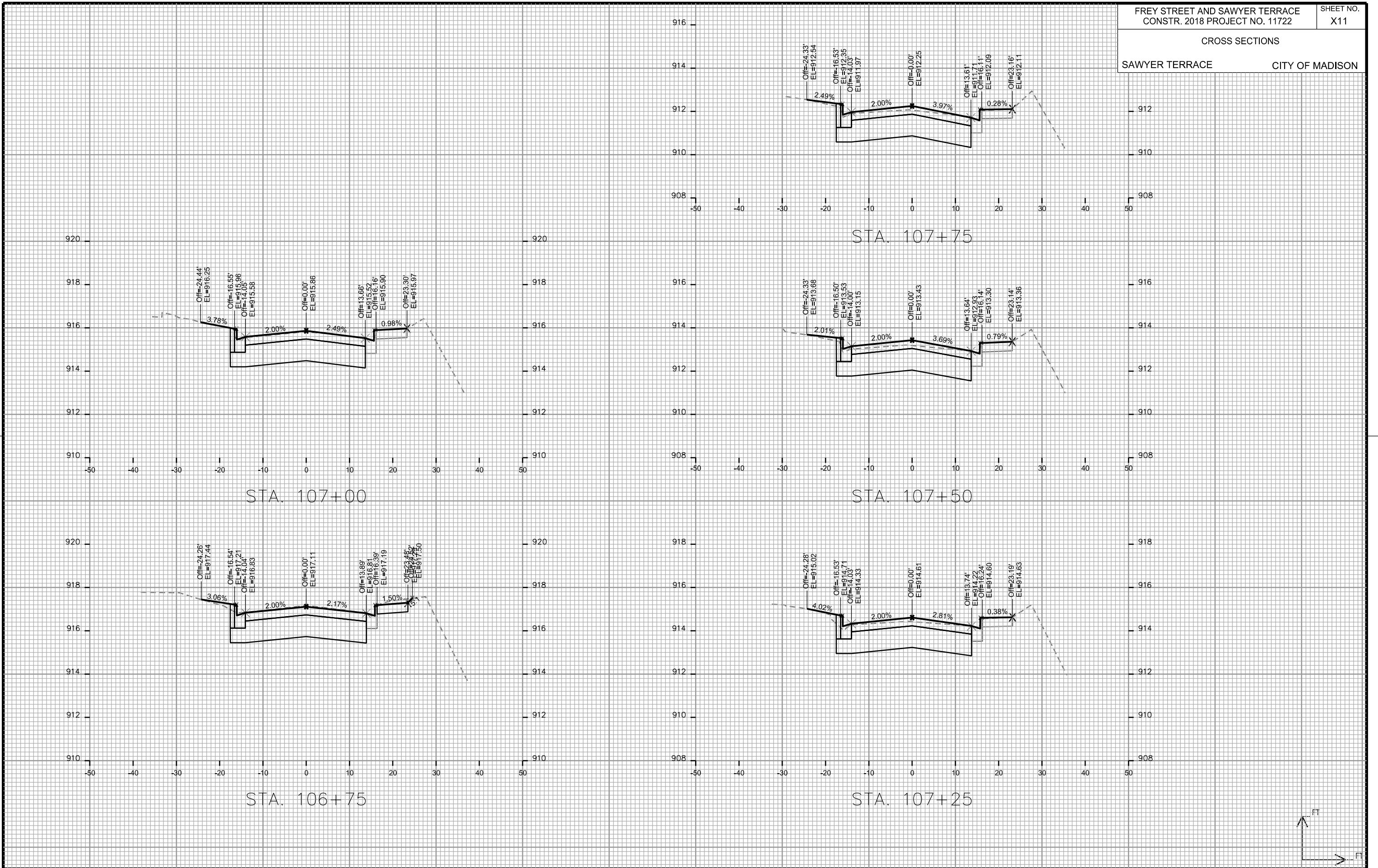
CITY OF MADISON

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CROSS SECTIONS  
SAWYER TERRACE CITY OF MADISON

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