

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

N. PROSPECT AVE RECONSTRUCTION

ASSESSMENT DISTRICT-2018

INDEX OF SHEETS

SHEET NO.	TITLE
1	DETAILS
PI-P2	STREET PLAN & PROFILES
UI-U2	UTILITY PLAN & PROFILE
U3	SANITARY SEWER SCHEDULE
U4	STORM SEWER SCHEDULE
W1-W3	WATER PLAN & PROFILES
W4	WATER IMPACT PLAN
W5	WATER ESTIMATE OF MATERIALS
X1-X7	CROSS SECTIONS

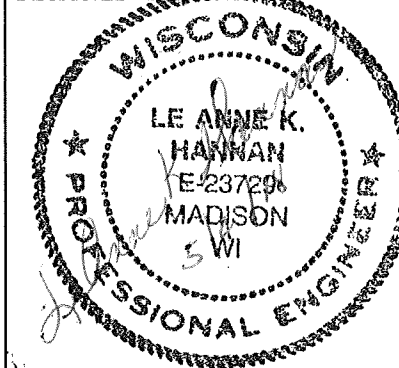
CITY PROJECT NO. 11181
CITY CONTRACT NO. 8122

PUBLIC IMPROVEMENT PROJECT APPROVED
MAY 1, 2018
BY THE COMMON COUNCIL OF MADISON, WISCONSIN

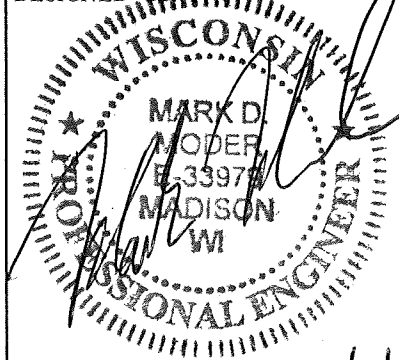
PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 5/10/18
City Engineer Date

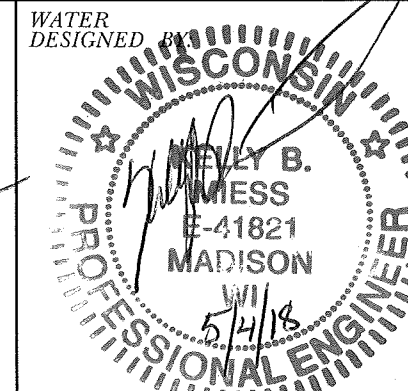
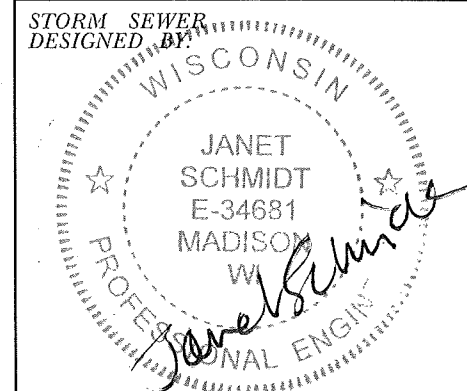
STREET DESIGNED BY:



SANITARY SEWER DESIGNED BY:



STORM SEWER DESIGNED BY:

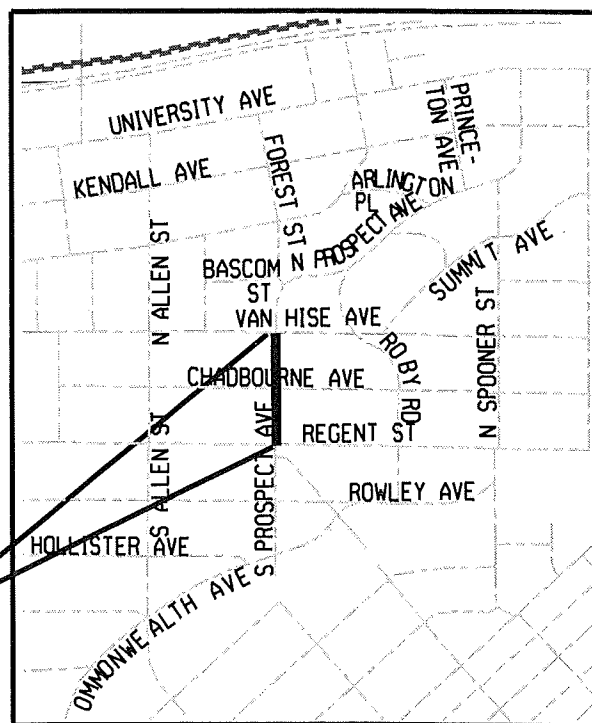
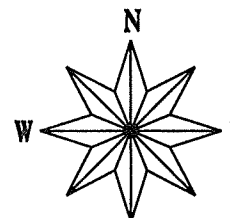


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CONSTRUCTION PROJECT LOCATION

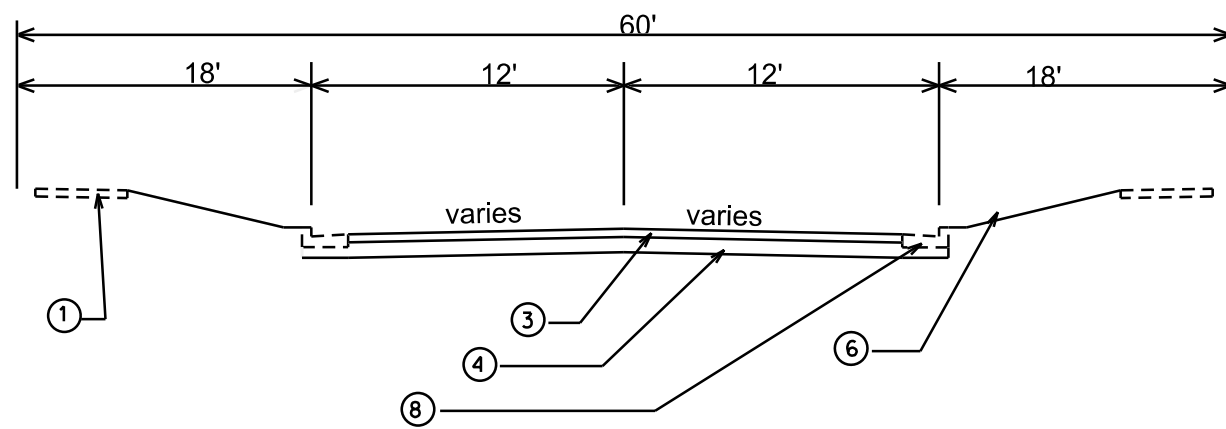
CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
OVERHEAD ELECTRIC	OH
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

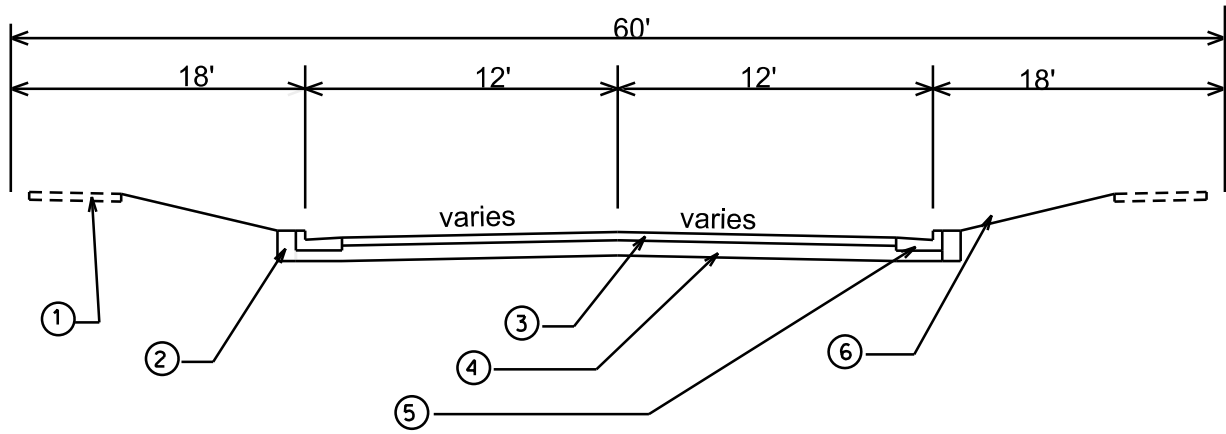
SIDEWALK RAMPS AND CURB THRU SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

EARTH WORK SUMMARY:
EXCAVATION CUT (MEASURED PLAN QUANTITY)..... 654 C.Y.
ESTIMATED UNDISTRIBUTED UNDERCUT 535 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT..... 1189 C.Y.



N. PROSPECT AVE
REGENT ST - CHADBOURNE AVE

- ① EX. 5" CONC. SW
- ② FILL
- ③ 3-1/2" HMA PAV'T TYPE 4 LT 58-28 S
- ④ 6" C.A.B.C.G.R. 2
6" C.A.B.C.G.R. 1
- ⑤ TYPE A CONC. C&G
- ⑥ 6" TOPSOIL, SOD & MATTING
- ⑦ TYPE "A" CONCRETE CURB & GUTTER
- ⑧ EXISTING CONCRETE CURB & GUTTER



N. PROSPECT AVE
CHADBOURNE AVE - VAN HISE AVE

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

PLOT SCALE: _____

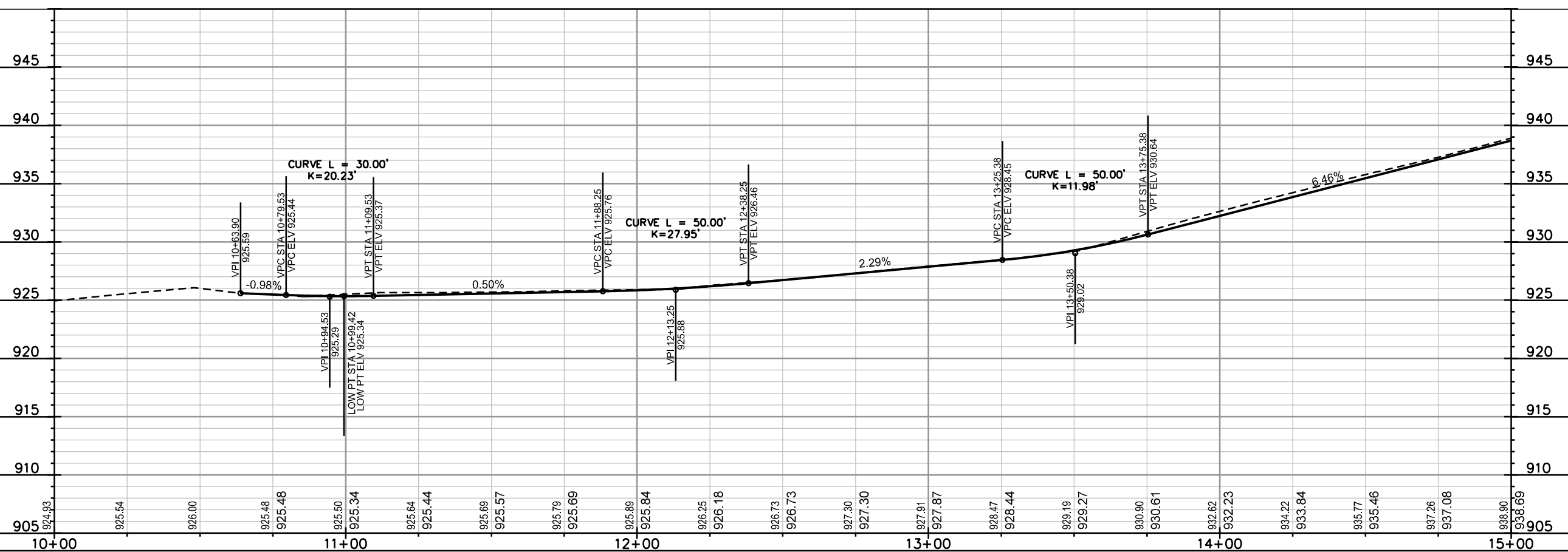
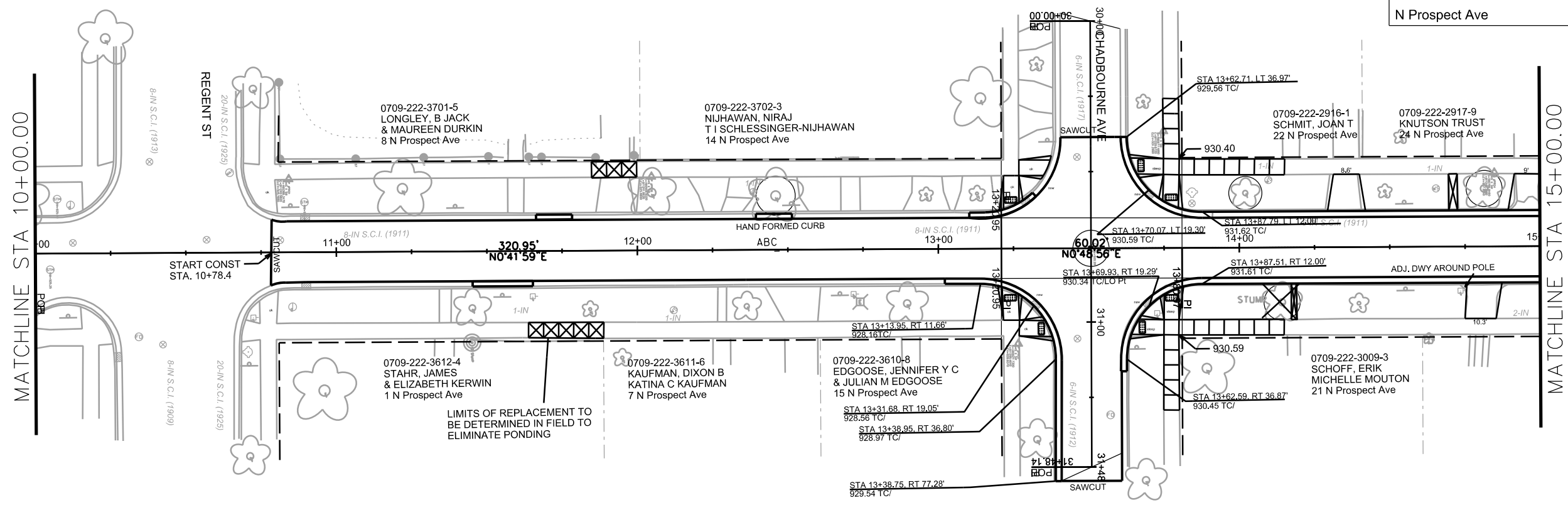
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: _____

PLAN AND PROFILE

N Prospect Ave CITY OF MADISON



PLOT SCALE: _____

PLOT NAME: _____

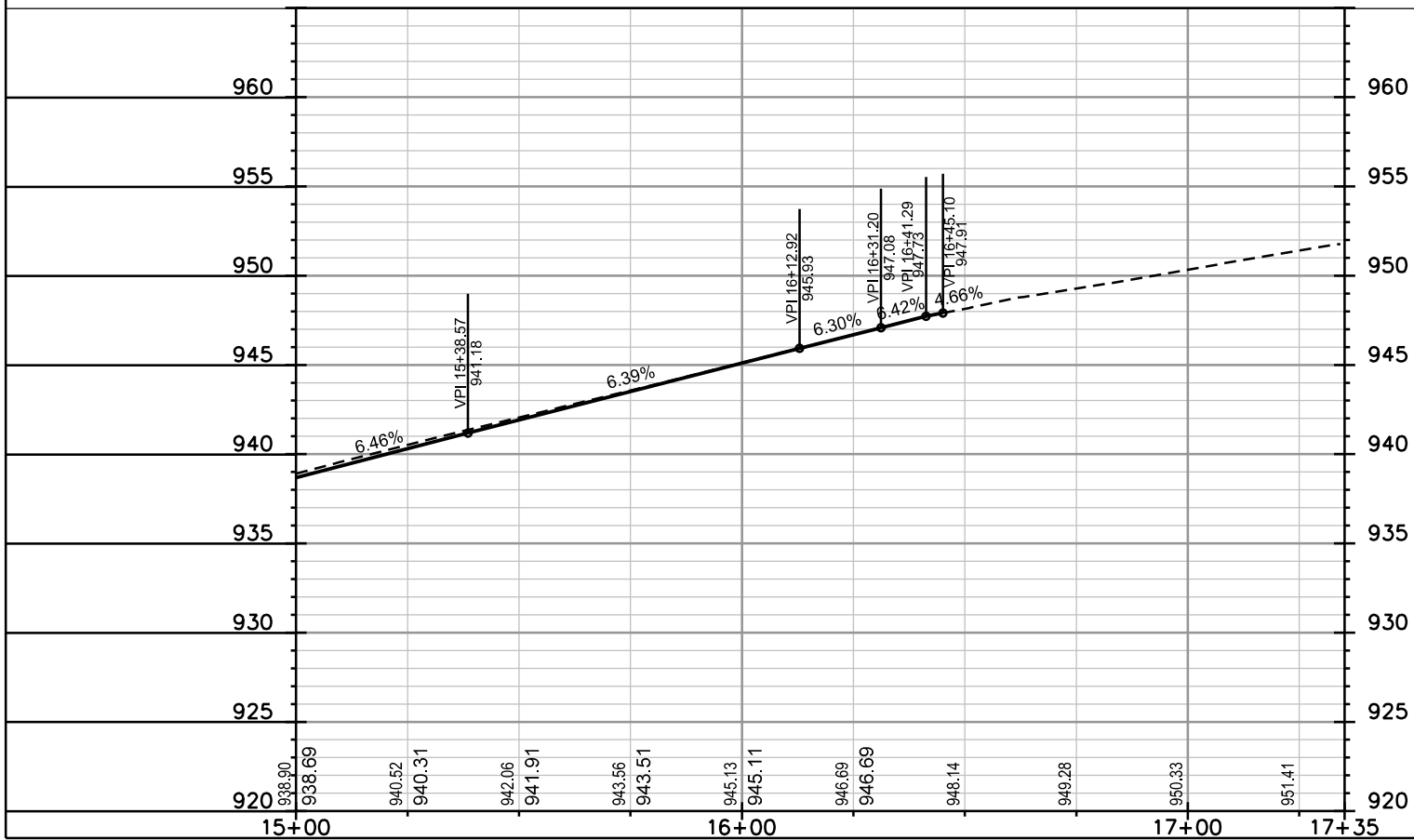
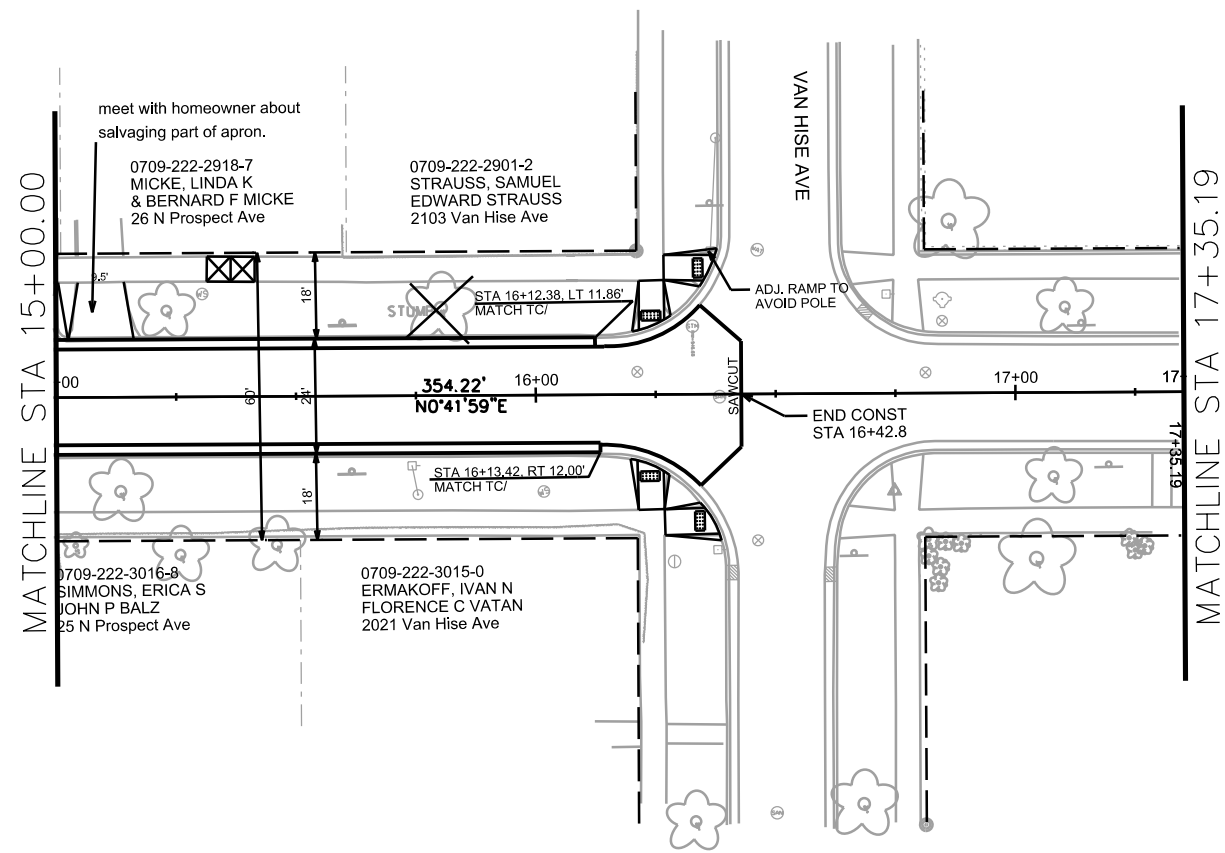
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE

N Prospect Ave

CITY OF MADISON

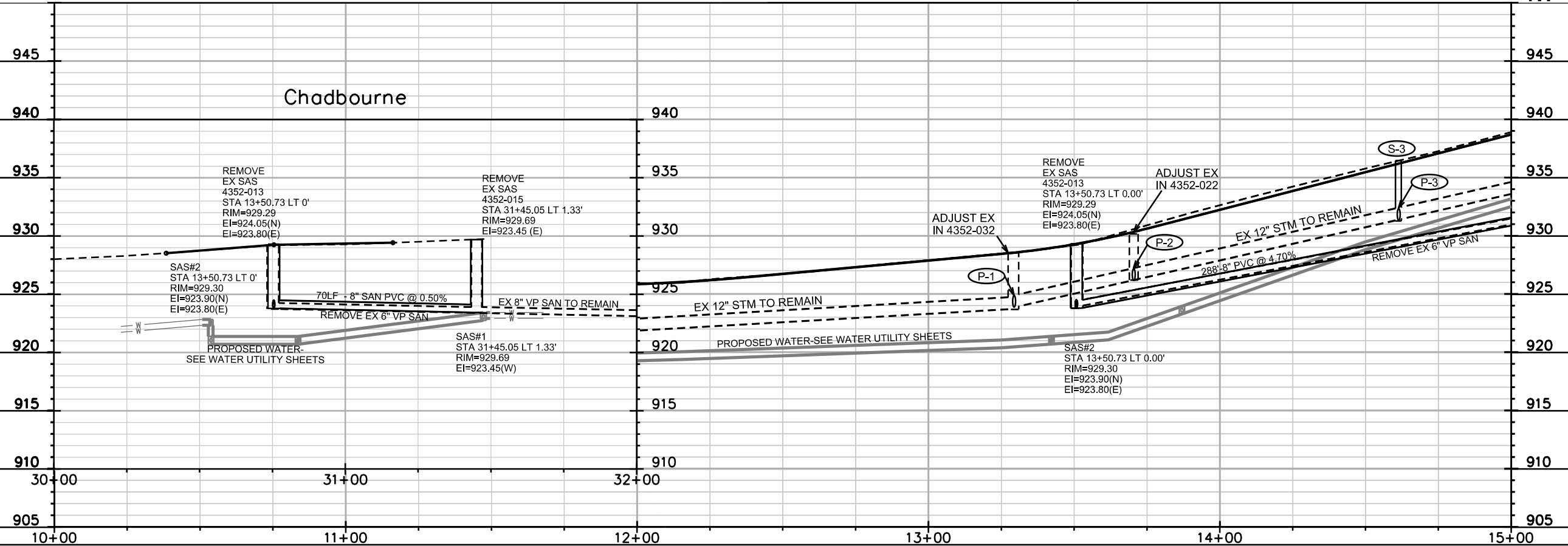
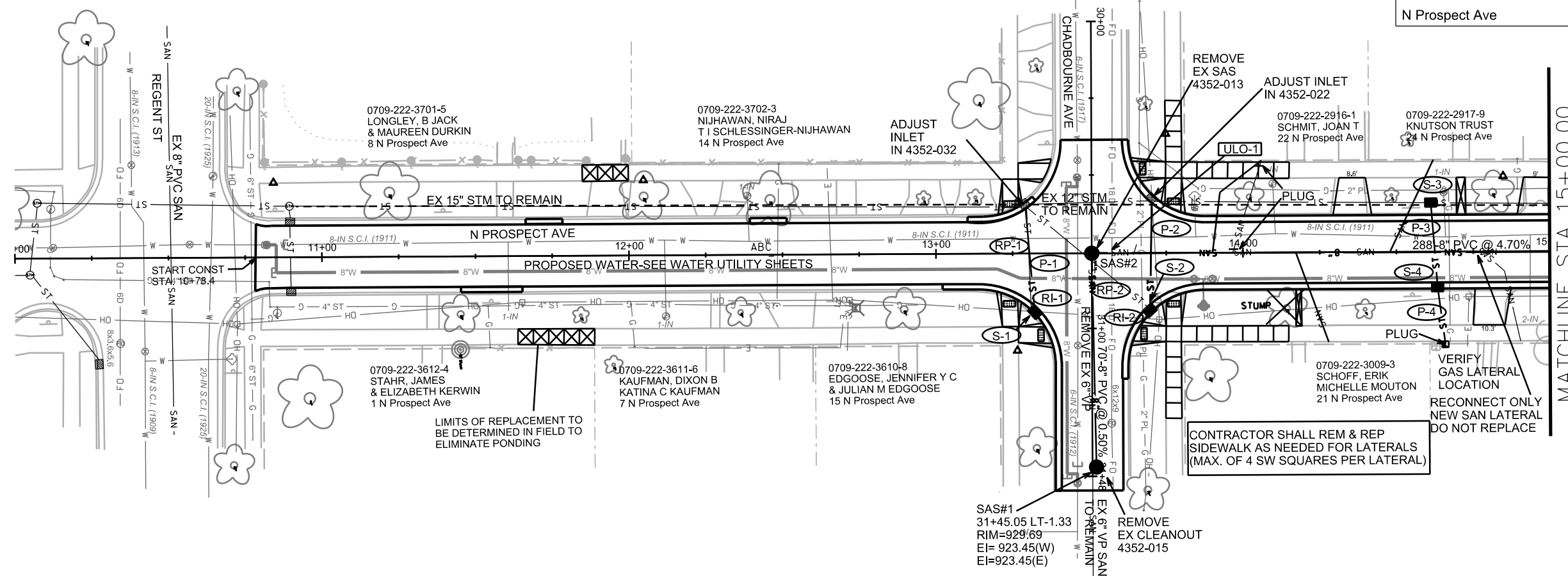


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

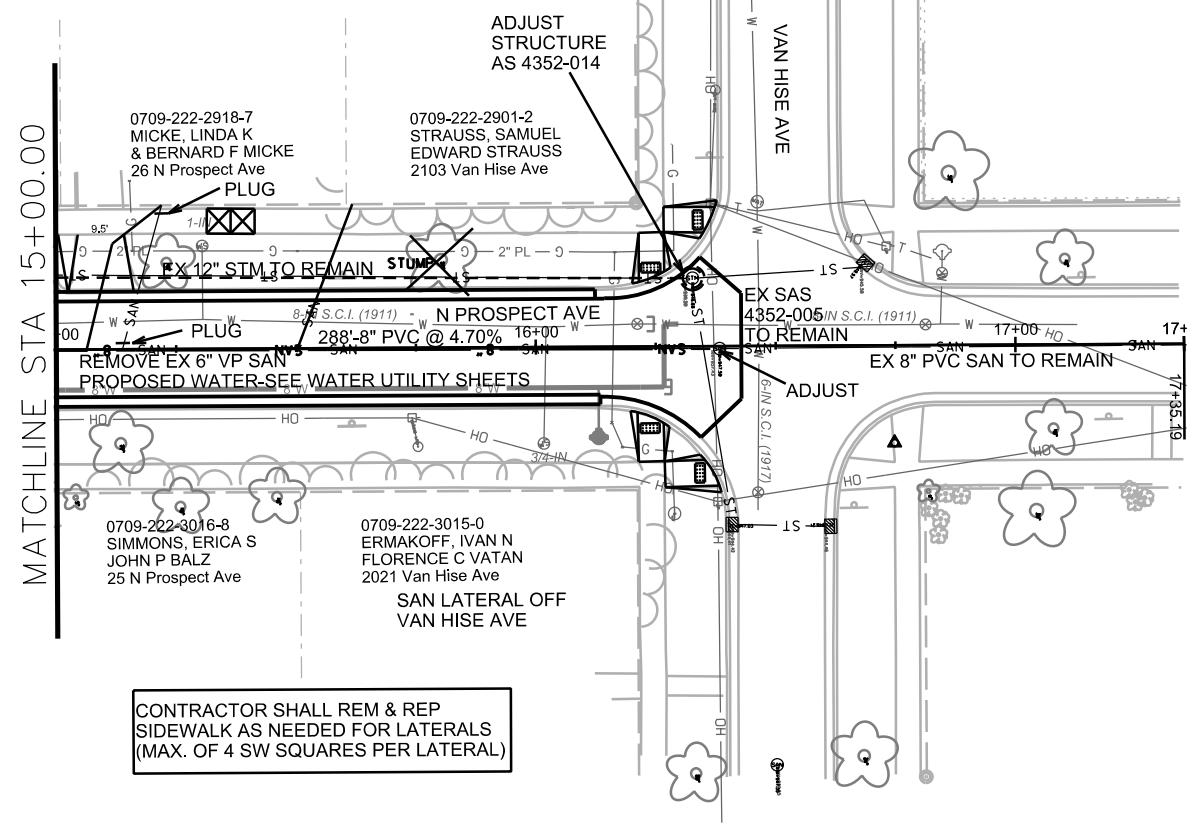


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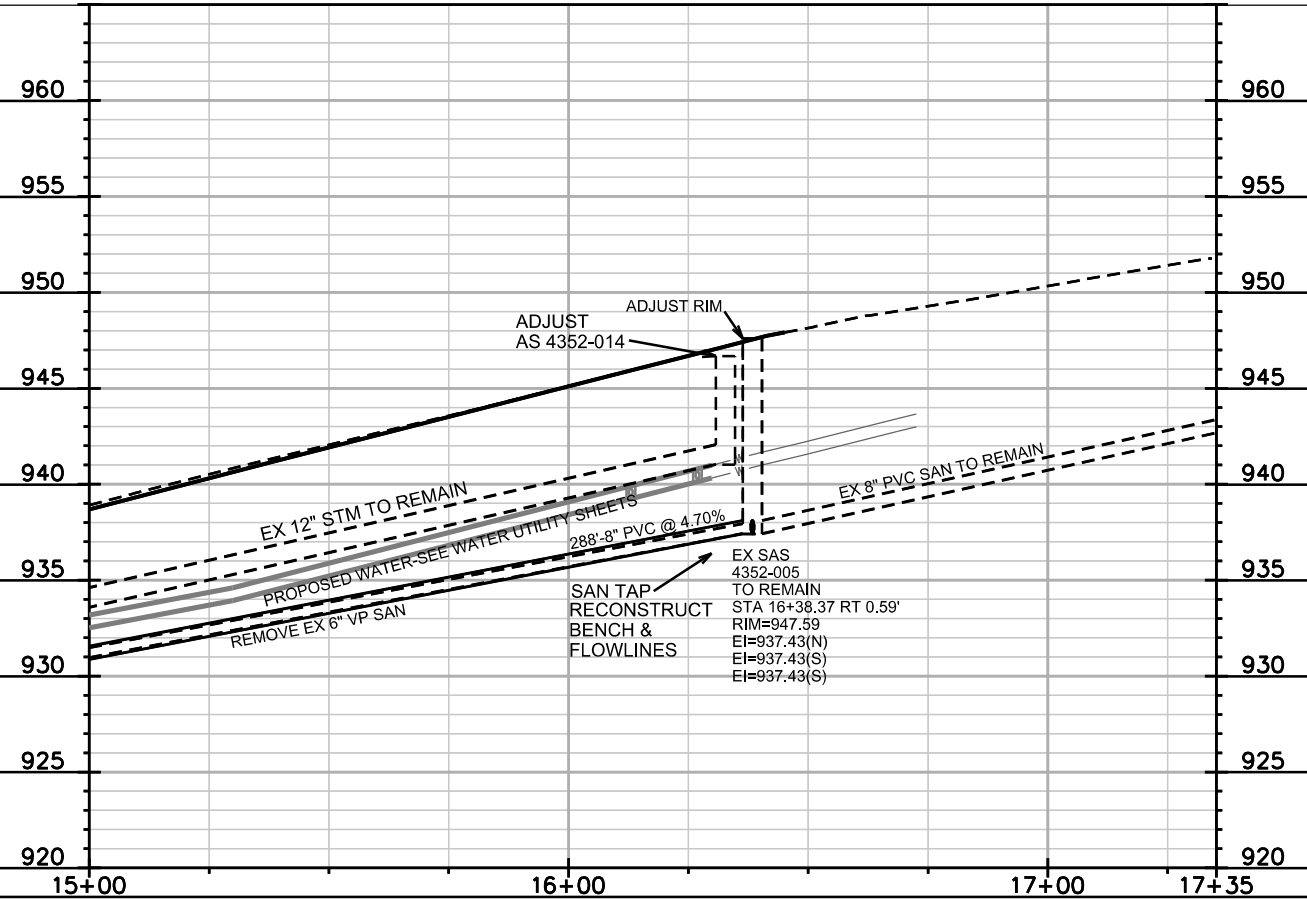
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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

SANITARY SCHEDULE

N PROSPECT AVE RECON ASSMT DIST-2018		SHEET NO.
PROJECT NO. 11181		U-3
SANITARY SEWER SCHEDULE		
PROSPECT AVE	CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
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CHADBOURNE AVENUE

SAS#1	31+45.05	LT-1.33	929.69	923.45	6.24	-
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PROSPECT AVENUE

SAS#2	13+50.73	CL	929.30	923.80	5.50	-
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REMOVE SANITARY STRUCTURES

ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
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PROSPECT AVENUE

4352-013	13+50.73	CL		-
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CHADBOURNE AVENUE

4352-015	31+45.05	LT-1.33	CLEANOUT	-
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ADJUST SANITARY STRUCTURES

ID NO.	STATION	LOCATION (OFFSET)	EX RIM	PROP RIM	EX ADJ	NOTES
--------	---------	-------------------	--------	----------	--------	-------

PROSPECT AVENUE

4352-005	16+38.37	CL	947.59	947.54		-
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PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
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SAS#1	SAS#2	923.45	923.80	70	0.50%	8"	SDR-35	-
SAS#2	EX SAS	923.90	937.43	288	4.70%	8"	SDR-35	-

REMOVE SANITARY PIPES

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
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4352-013	4352-005	298	6	VP	N	-
4352-015	4352-013	70	6	VP	N	-

ULO SCHEDULE

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
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ULO-1	13+57.43	CL	FO	-
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PLOT SCALE: ---
PLOT NAME: ---

STORM SEWER SCHEDULE

N PROSPECT AVE RECON ASSMT DIST-2018	SHEET NO.
PROJECTS 11181	U-4
STORM SEWER SCHEDULE	
PROSPECT AVE	CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
PROSPECT AVE							
S-1	13+32.12	RT-19.10	H INLET	928.56	924.83	3.73	W/ R-3067-7004-VB
S-2	13+69.71	RT-18.63	H INLET	930.34	926.74	3.60	LP; W/ R-3067-7004-V
S-3	14+61.24	LT-16.05	H INLET	936.45	931.43	5.02	W/ R-1878-B7G; (1)
S-4	14+63.35	RT-11.50	H INLET	936.50	931.56	4.94	W/ R-3067-7004-VB

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
P-1	EX IN 4352-032	S-1	923.06	924.83	35	32	5.53%	12"	TYPE 1	STM TAP
P-2	EX IN 4352-022	S-2	926.15	926.74	37	33	1.79%	12"	TYPE 1	STM TAP
P-3	S-3	S-4	931.43	931.56	28	26	0.50%	12"	TYPE 1	-
P-4	S-4	PROPERTY LINE	931.56	FIELD	19	18	FIELD	8"	TYPE 3	-

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
PROSPECT AVE					
RI-1	4352-020	13+32.12	RT-19.10	H INLET	-
RI-2	4352-021	13+69.71	RT-18.63	H INLET	-

REMOVE STORM PIPE

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	EX IN 4352-032	RI-1	32	12"	VP	N	-
RP-2	EX IN 4352-022	RI-2	48	12"	VP	Y	-

ADJUST STORM SEWER STRUCTURES

STRUC NO.	STATION	LOCATION (OFFSET)	EX TOP OF CASTING	PROP TOP OF CASTING	DIFF	NOTES
PROSPECT AVE						
IN 4352-032	13+28.11	LT-16.00	928.54	928.54	0.00	-
IN 4352-022	13+70.40	LT-18.12	930.15	930.59	0.44	-
AS 4352-014	16+33.03	LT-14.14	946.68	946.68	0.00	-

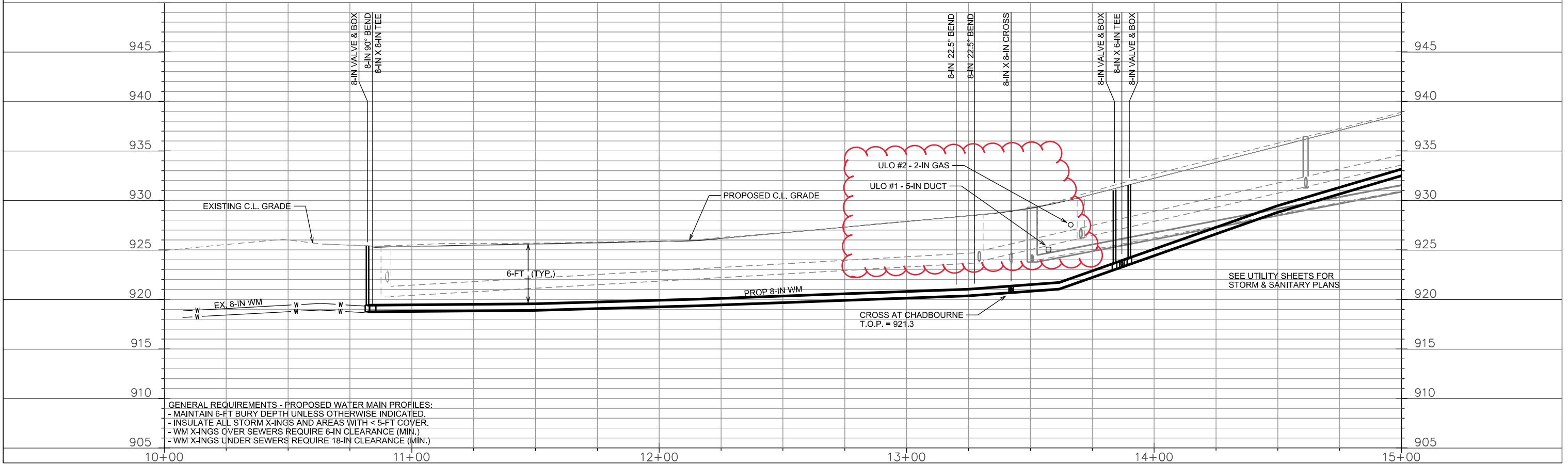
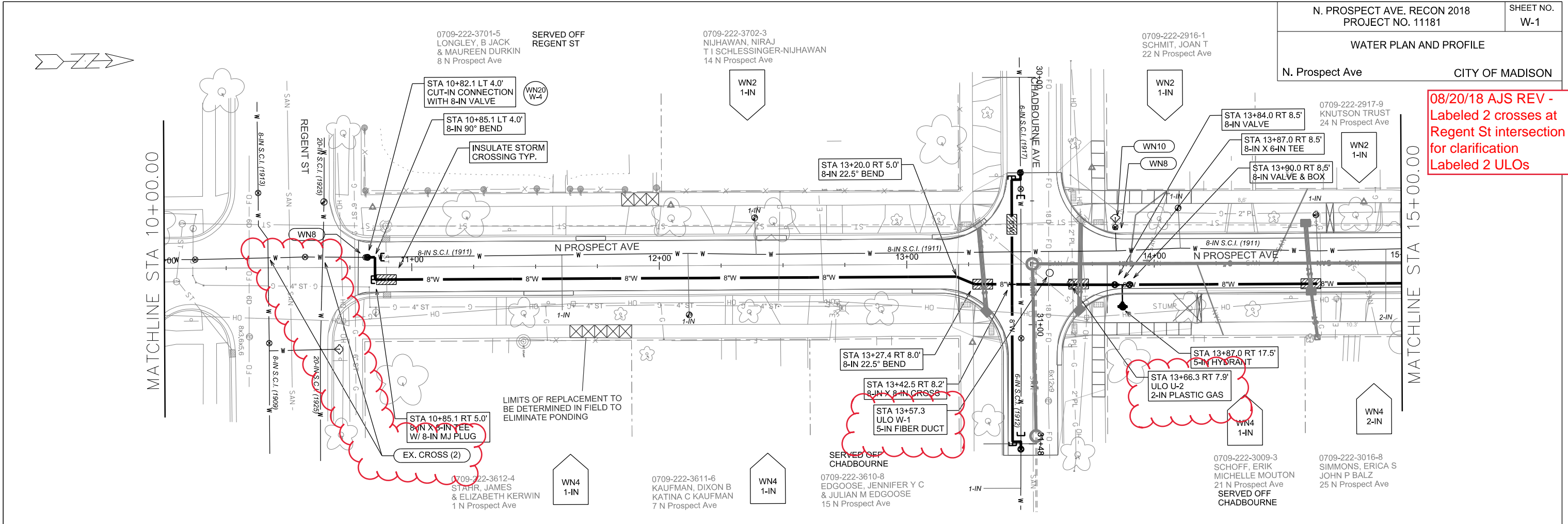
SPECIFIC NOTES

(1) RECONNECT EX 12" PIPES TO NORTH & SOUTH

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.

08/20/18 AJS REV -
Labeled 2 crosses at
Regent St intersection
for clarification
Labeled 2 ULOs



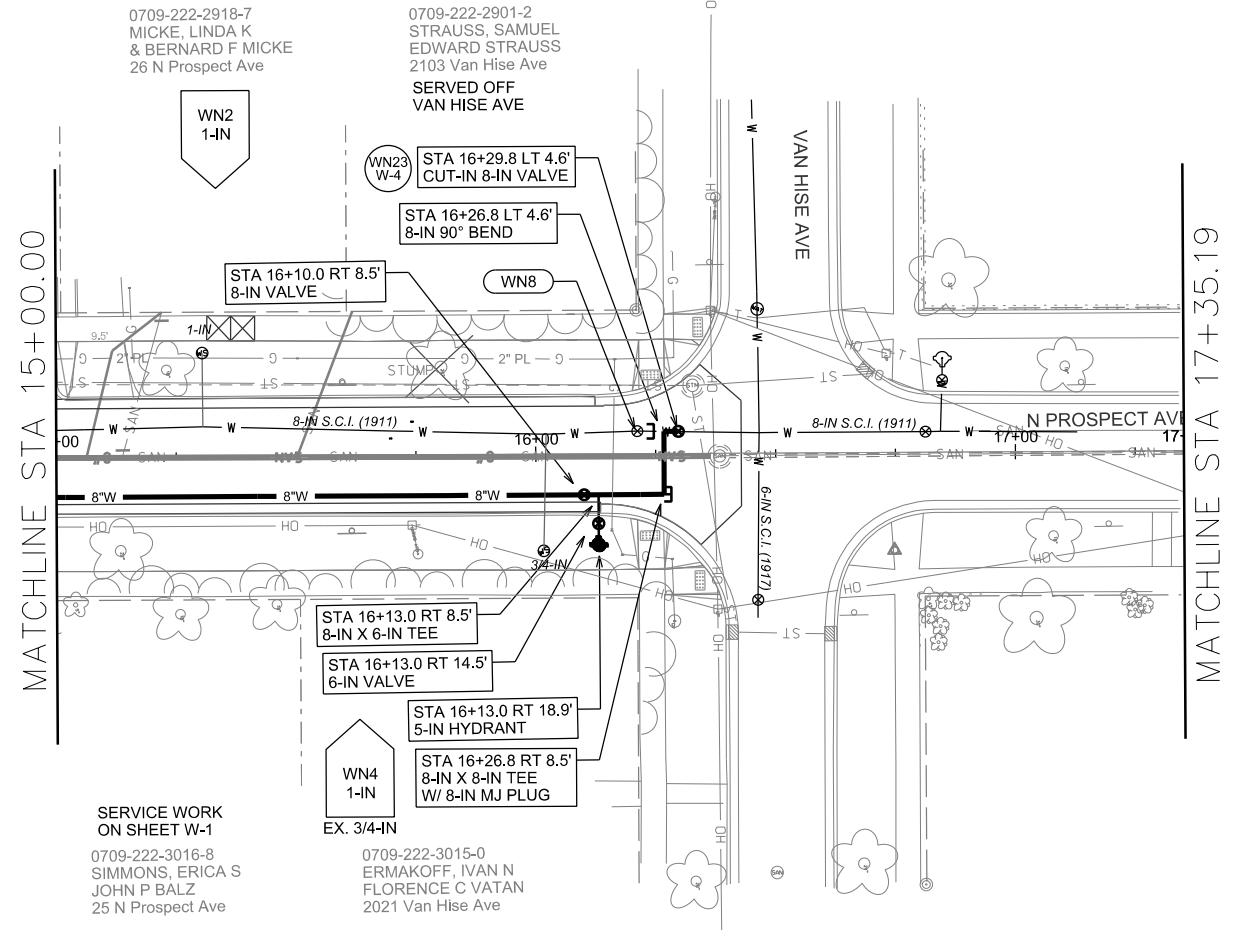
GENERAL REQUIREMENTS - PROPOSED WATER MAIN PROFILES:
 - MAINTAIN 6-FT BURY DEPTH UNLESS OTHERWISE INDICATED.
 - INSULATE ALL STORM X-INGS AND AREAS WITH < 5-FT COVER.
 - WM X-INGS OVER SEWERS REQUIRE 6-IN CLEARANCE (MIN.)
 - WM X-INGS UNDER SEWERS REQUIRE 18-IN CLEARANCE (MIN.)

PLOT SCALE: _____

PLOT NAME: _____

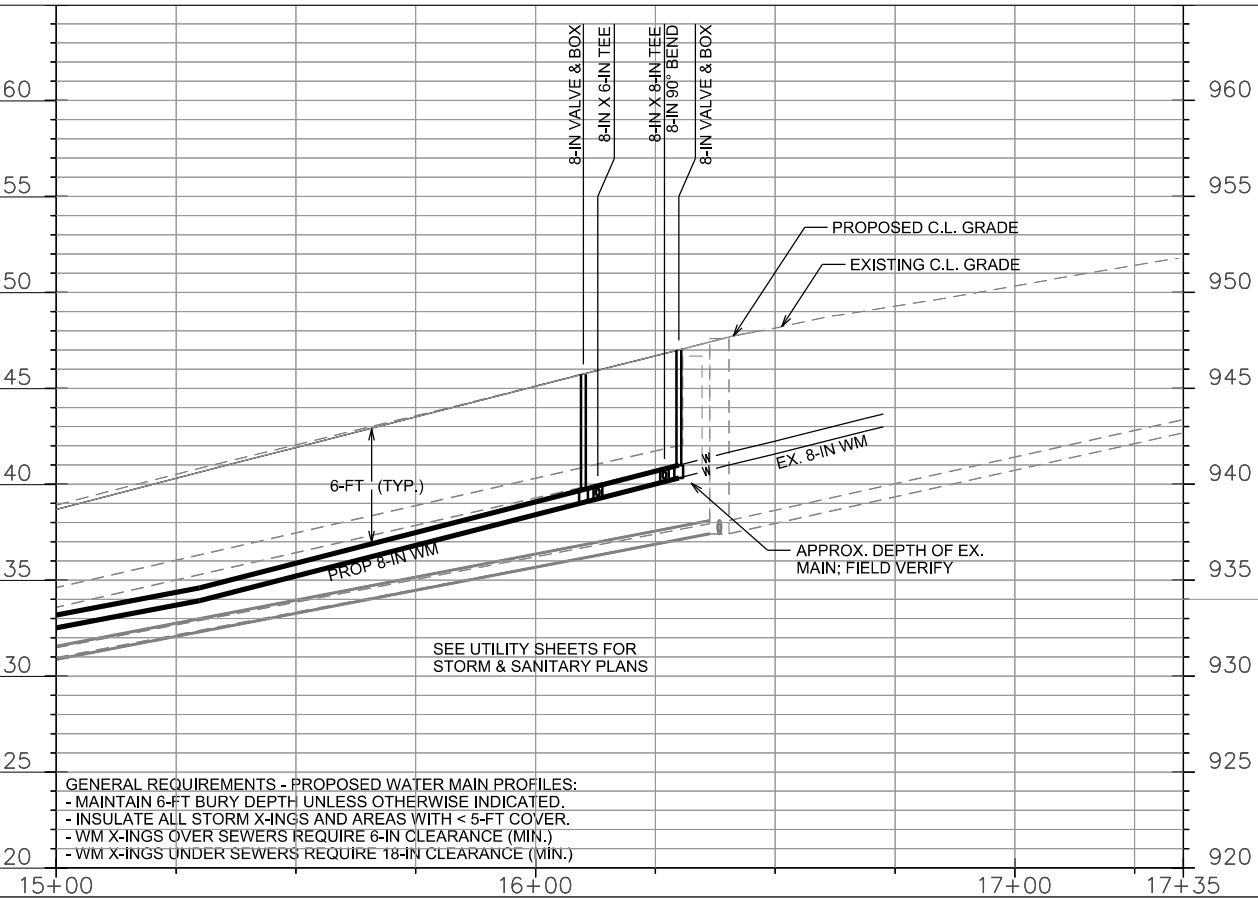
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



SERVICE WORK
ON SHEET W-1
0709-222-3016-8
SIMMONS, ERICA S
JOHN P BALZ
25 N Prospect Ave

0709-222-3015-0
ERMAKOFF, IVAN N
FLORENCE C VATAN
2021 Van Hise Ave



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.)

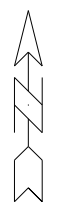
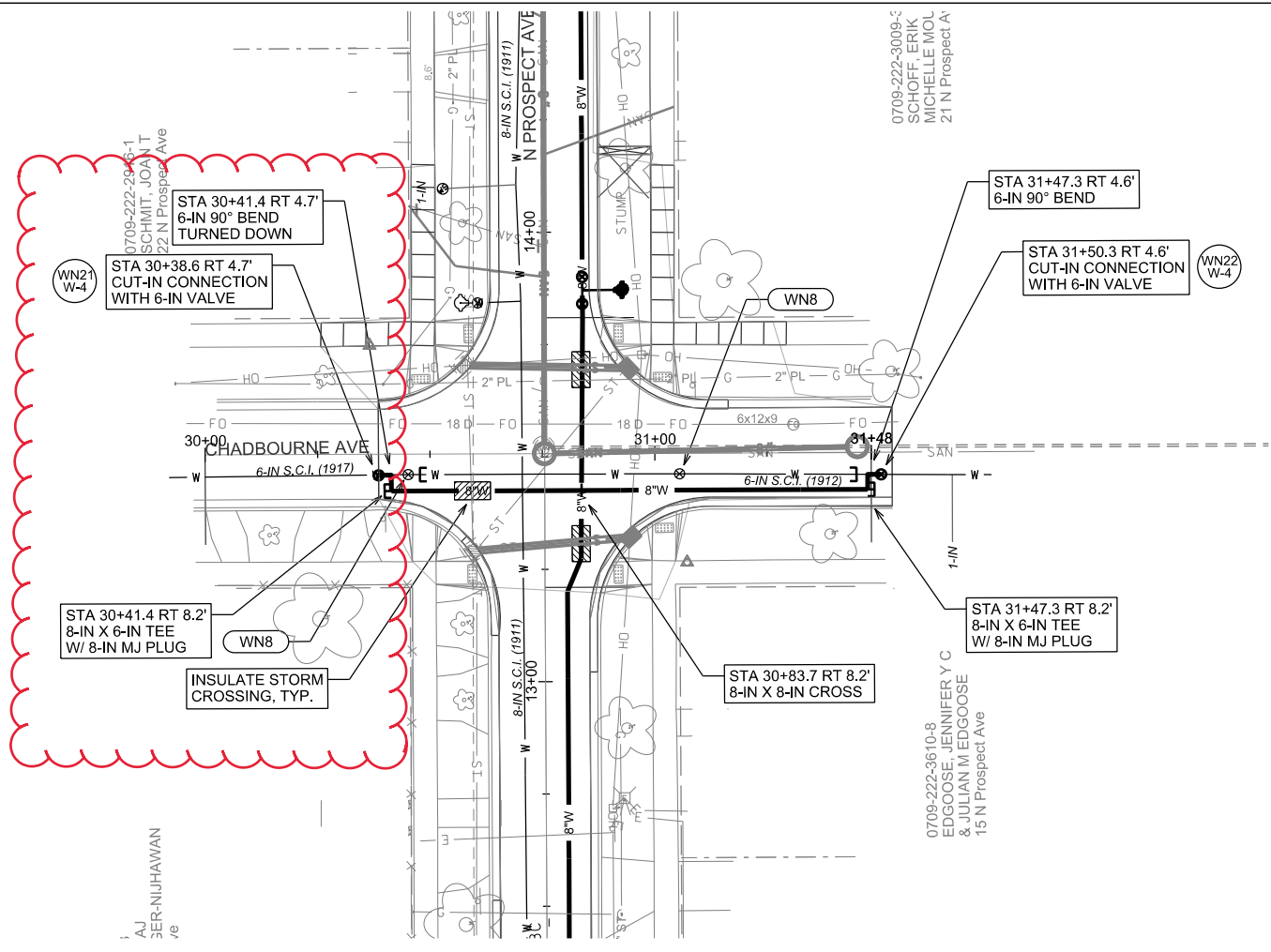
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

08/20/18 AJS REV -
Shifted new valve to
the west & remove ex.
valve (WN8)

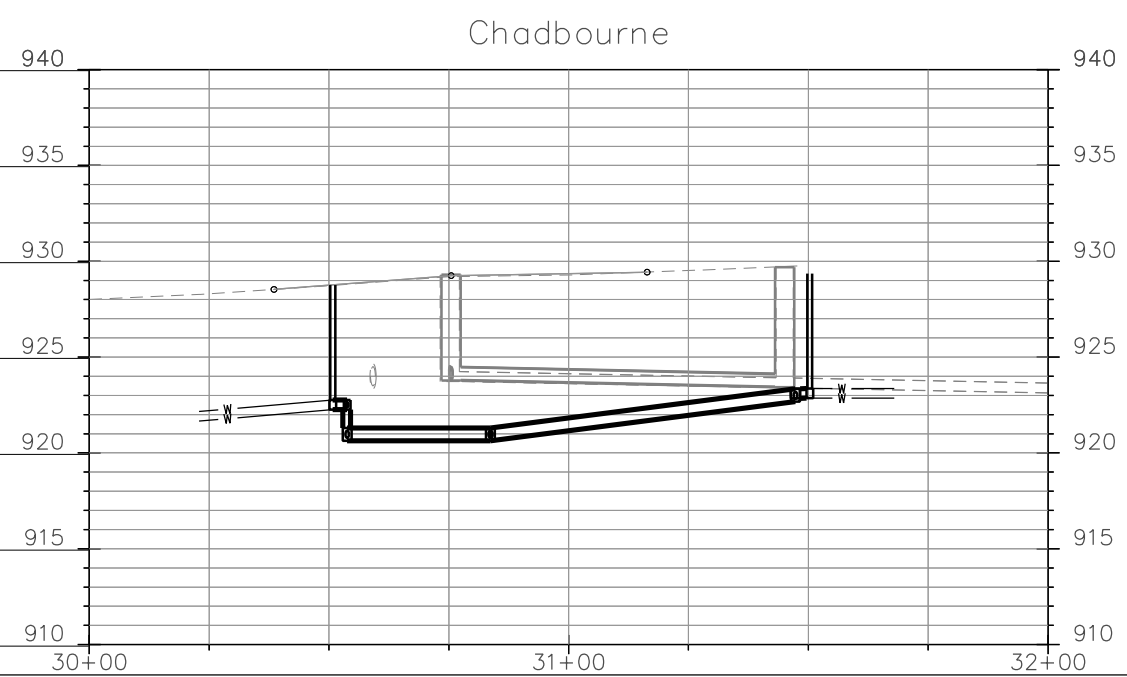


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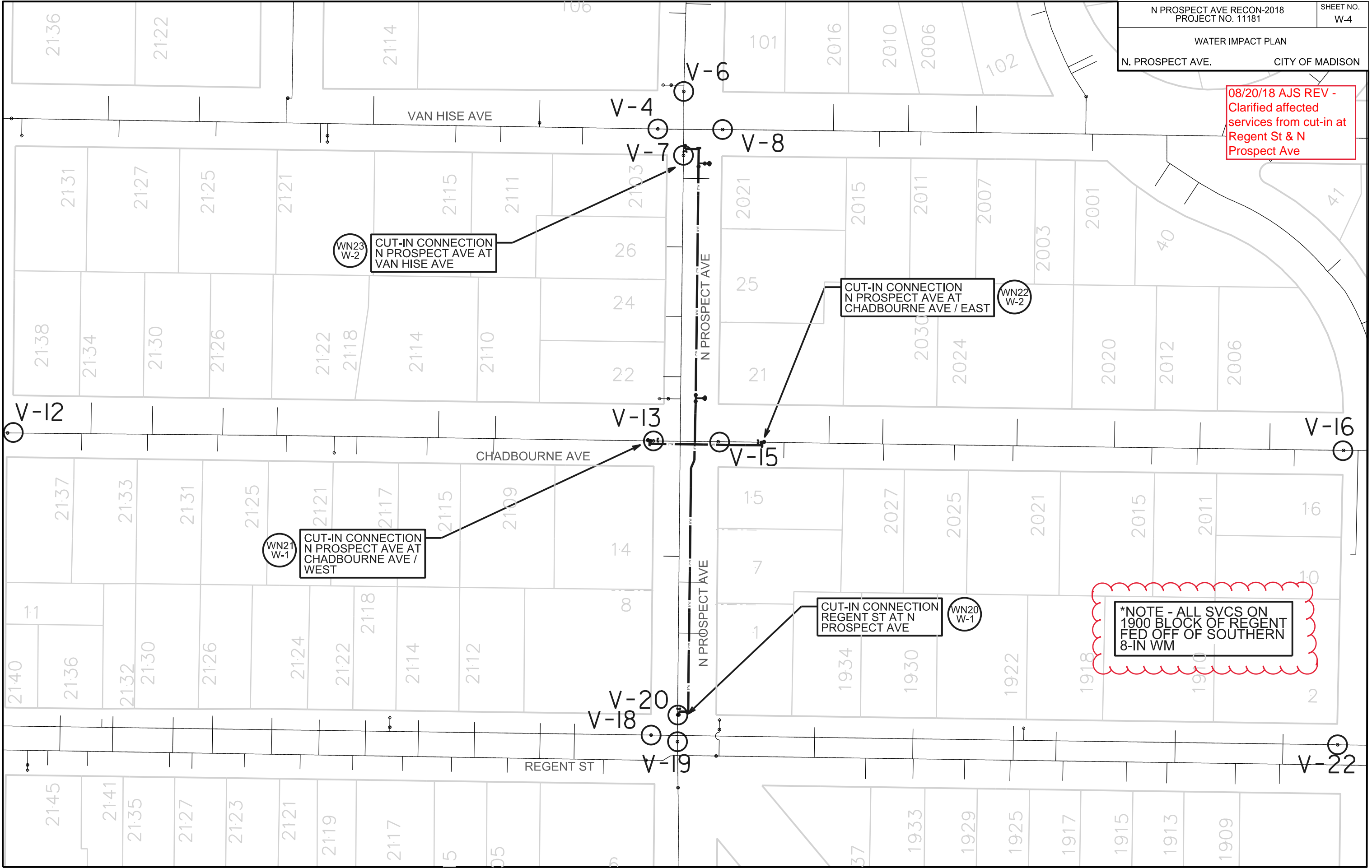
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



08/20/18 AJS REV -
Clarified affected
services from cut-in at
Regent St & N
Prospect Ave



WN23
W-2
CUT-IN CONNECTION
N PROSPECT AVE AT
VAN HISE AVE

CUT-IN CONNECTION
N PROSPECT AVE AT
CHADBOURNE AVE / EAST

WN22
W-2

WN21
W-1
CUT-IN CONNECTION
N PROSPECT AVE AT
CHADBOURNE AVE /
WEST

CUT-IN CONNECTION
REGENT ST AT N
PROSPECT AVE

WN20
W-1

*NOTE - ALL SVCS ON
1900 BLOCK OF REGENT
FED OFF OF SOUTHERN
8-IN WM

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER ESTIMATE OF MATERIALS

N. PROSPECT AVE. CITY OF MADISON

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.

WATER UTILITY ULO SCHEDULE

ULO #	STATION / OFFSET	UTILITY / UTILITIES
WU-1	13+57.3 RT 8.4'	BOTTOM FO DUCT

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- | | |
|-----------------------|-----------------------------------|
| 35-FT - 6-IN PIPE | 2 - 8-IN 90° BEND |
| 680-FT - 8-IN PIPE | 2 - 6-IN 90° BEND |
| | 2 - 8-IN 22.5° BEND |
| 3 - 6-IN VALVE & BOX | 4 - 8-IN MJ PLUG |
| 5 - 8-IN VALVE & BOX | 2 - 8-IN MJ CAP |
| | 2 - 6-IN MJ CAP |
| 2 - 8-IN X 8-IN TEE | 2 - 5-IN HYDRANT |
| 4 - 8-IN X 6-IN TEE | 40-FT - 2-IN STYROFOAM INSULATION |
| 1 - 8-IN X 8-IN CROSS | 820-FT - POLY WRAP |
| | 1-IN TO 2-IN COPPER (AS REQ'D) |

MATERIALS SUPPLIED BY CITY:

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

NONE

ESTIMATE OF MATERIALS SALVAGED:

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

NONE

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

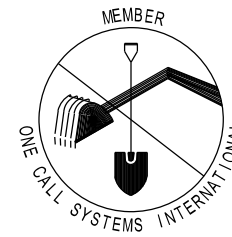
CALL DIGGERS HOTLINE
TOLL FREE

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.

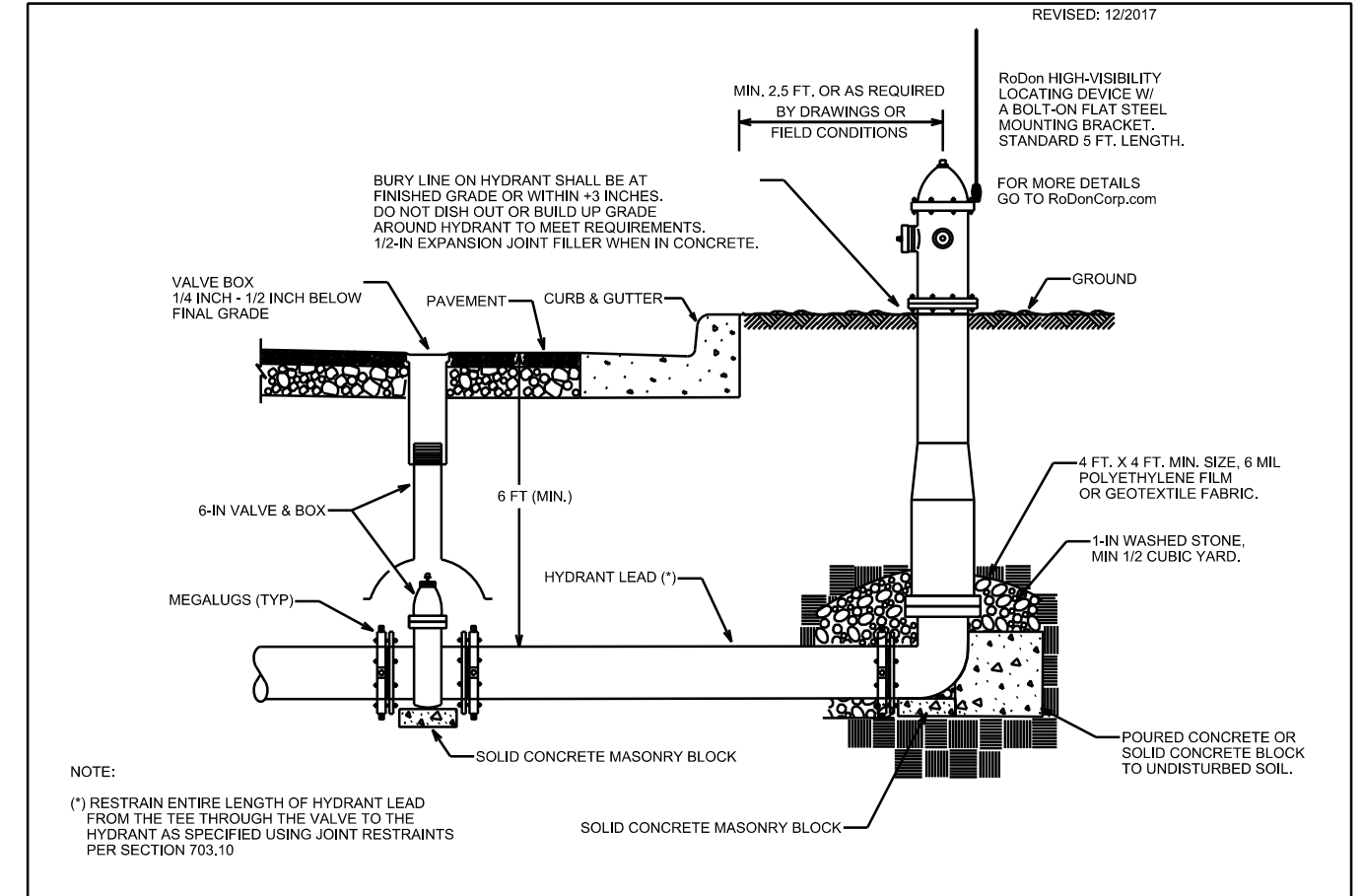


DISCLAIMER NOTE:
UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING WORK.

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

CROSS SECTIONS

N PROSPECT AVE

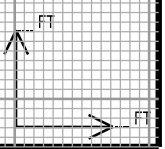
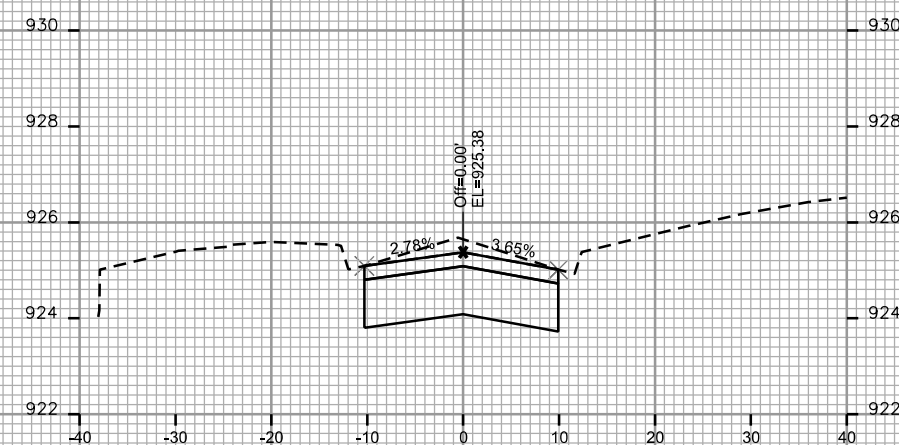
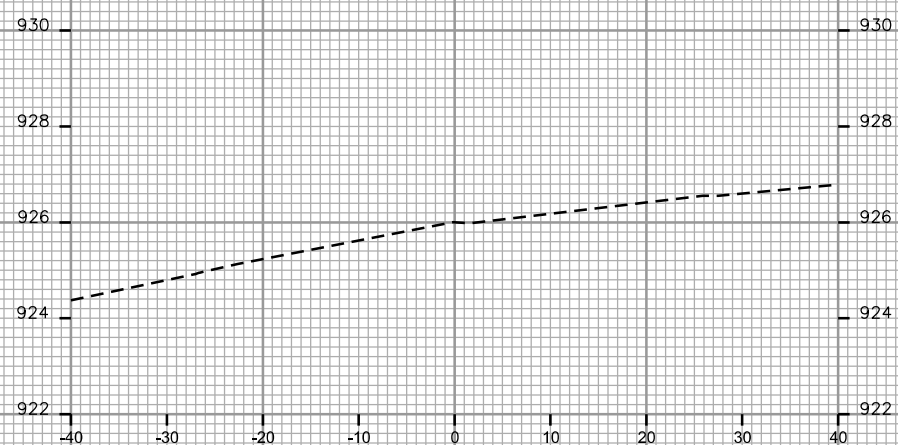
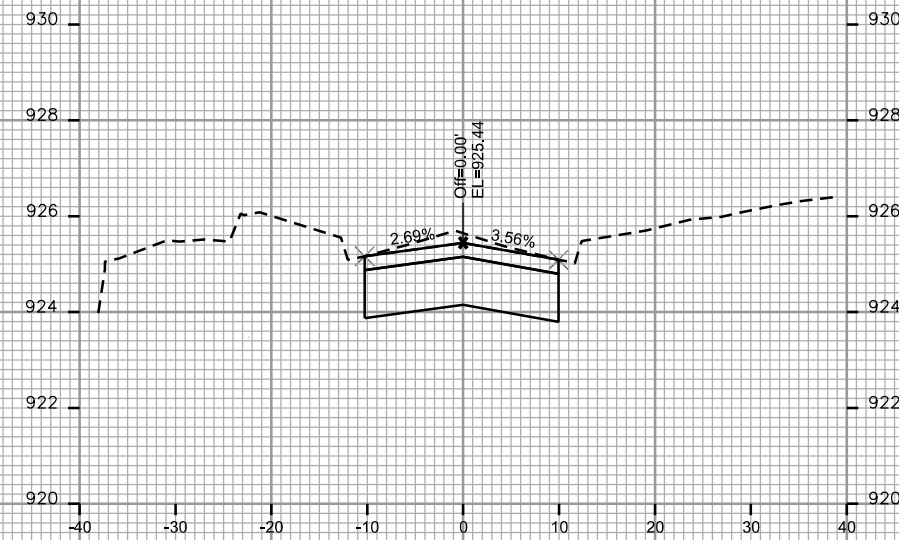
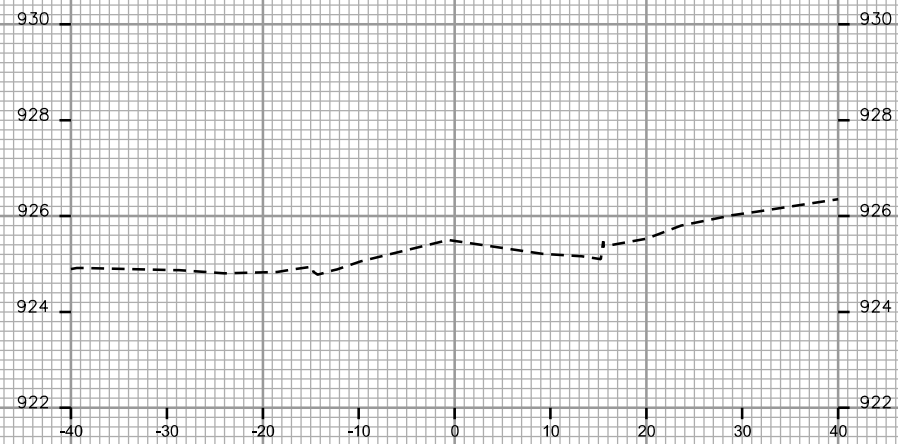
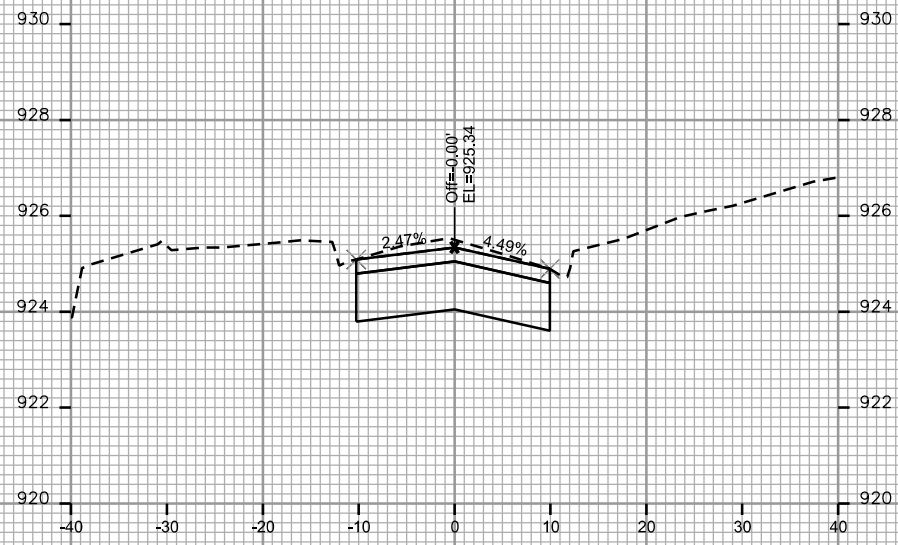
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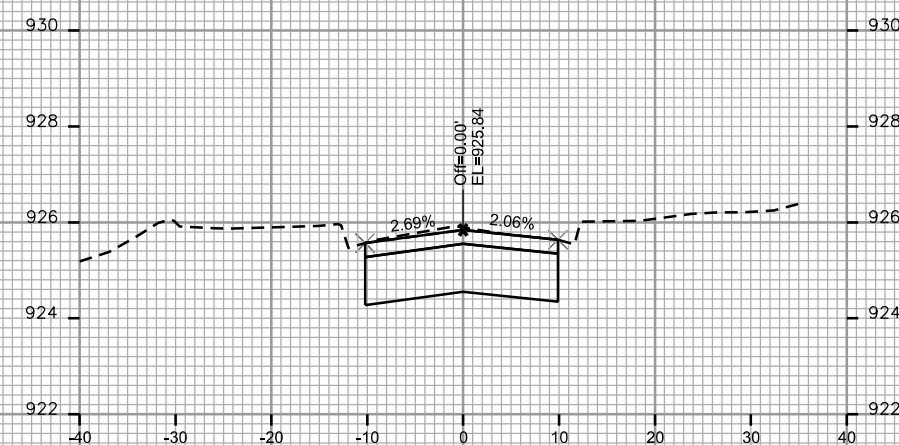
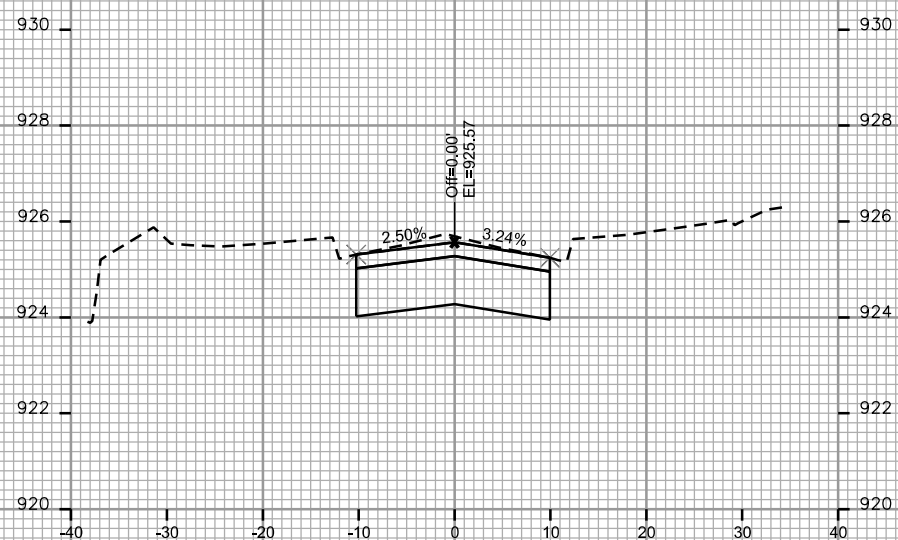
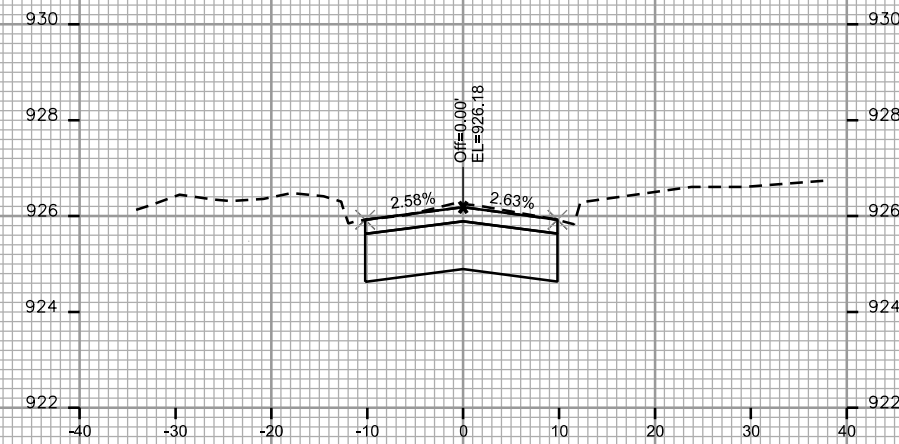
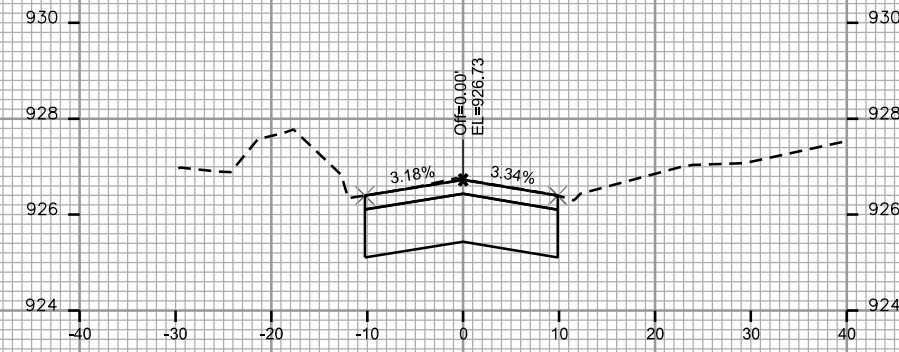
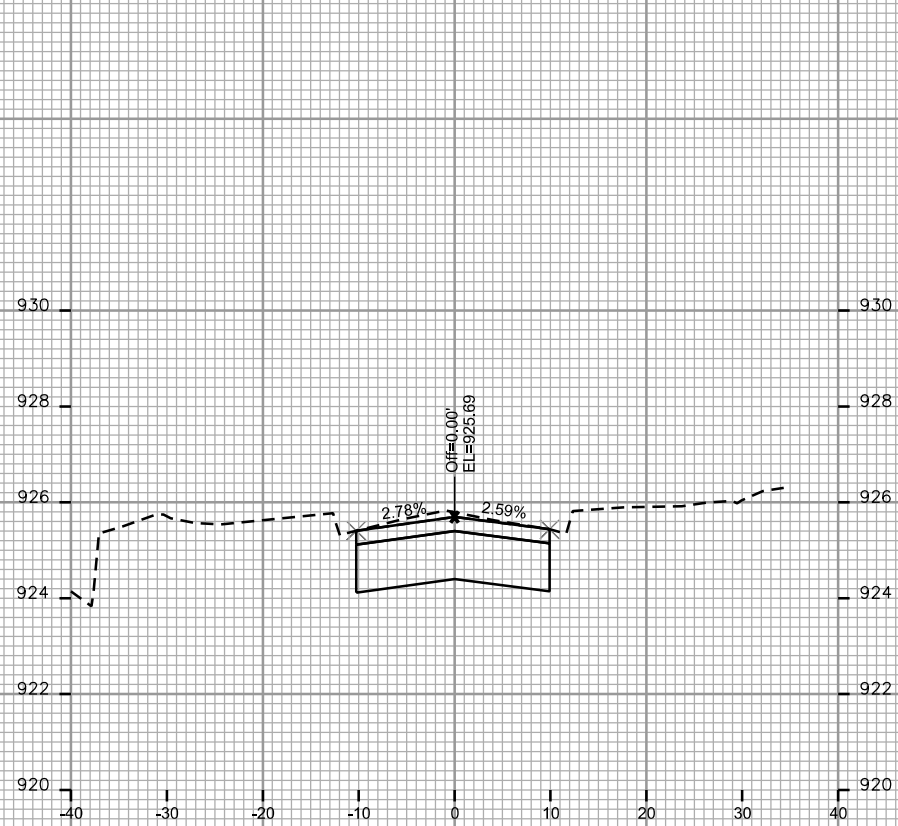
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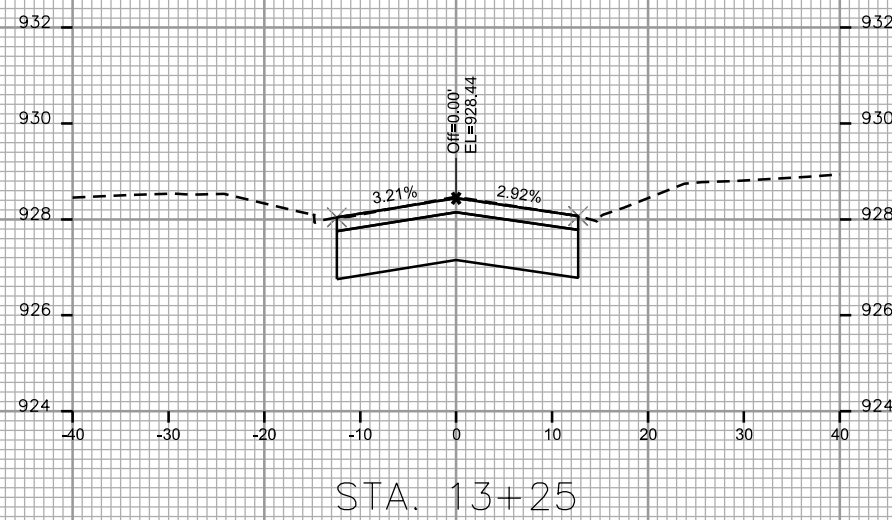
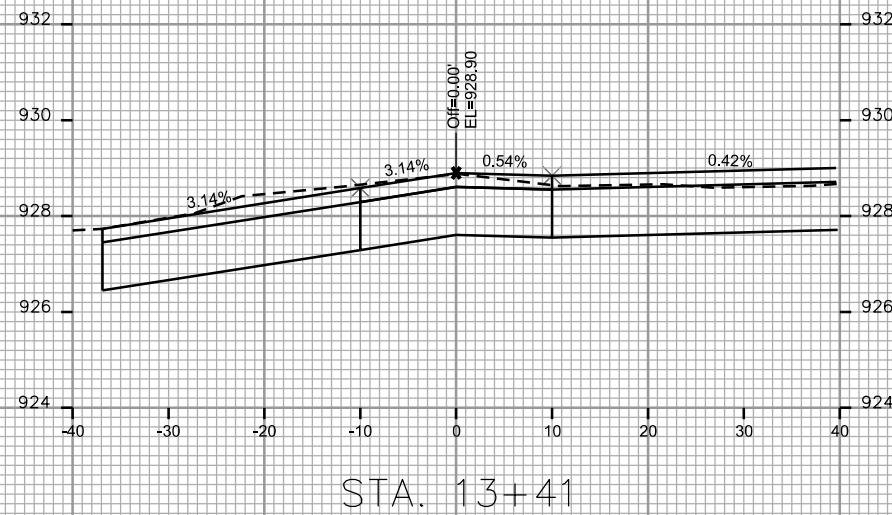
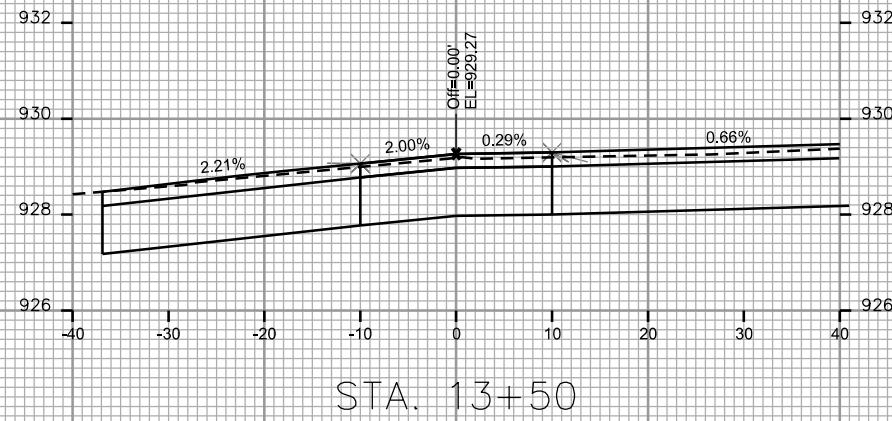
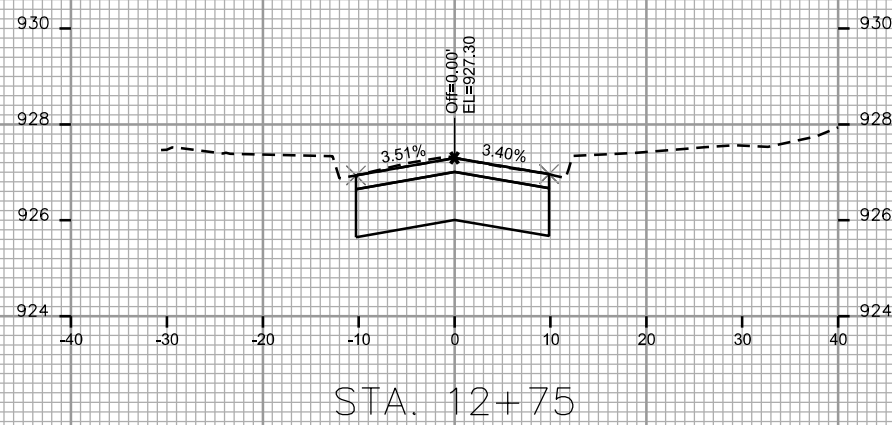
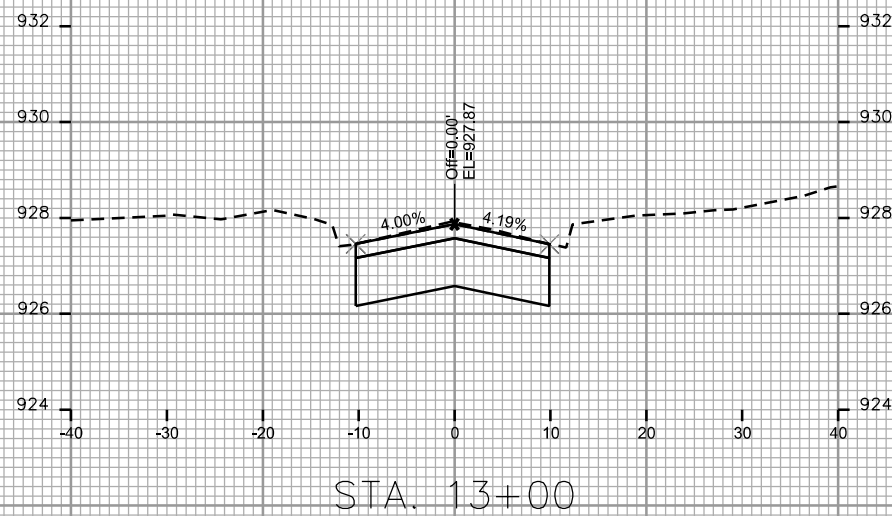
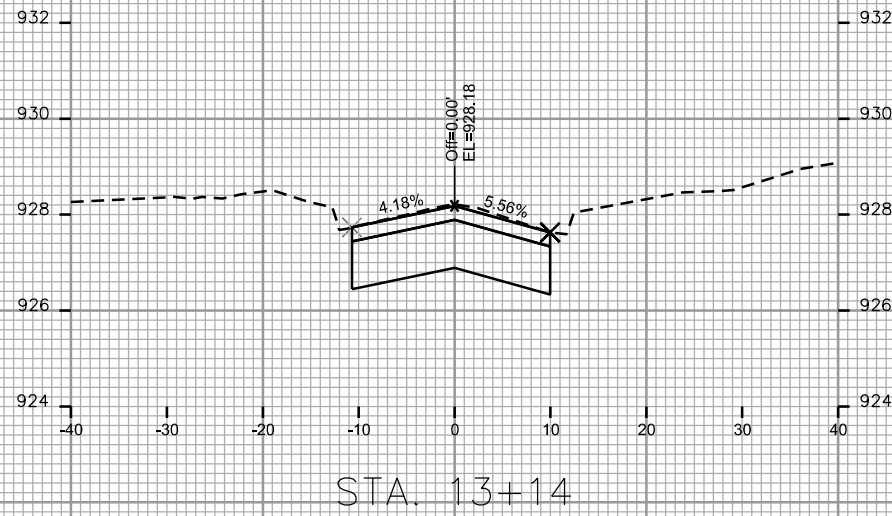
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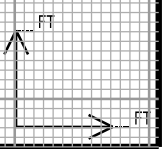
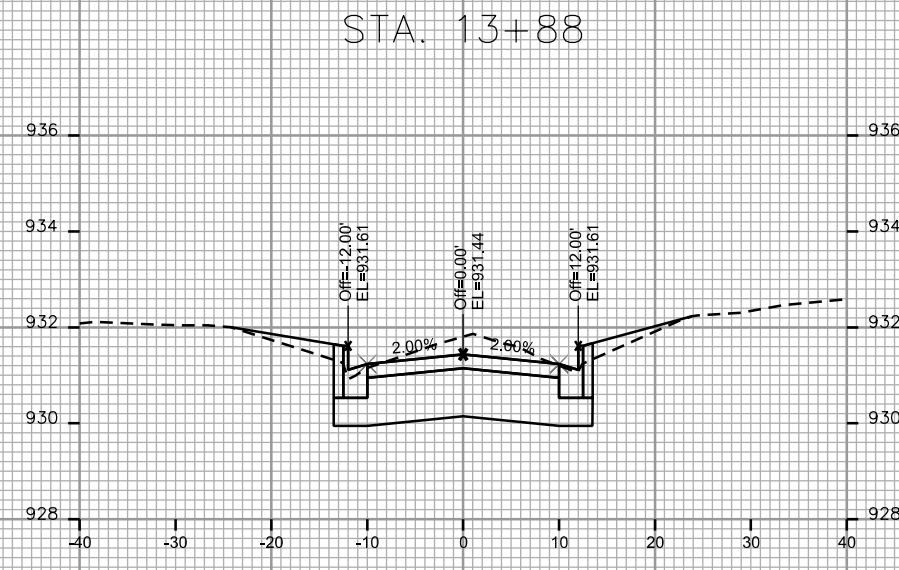
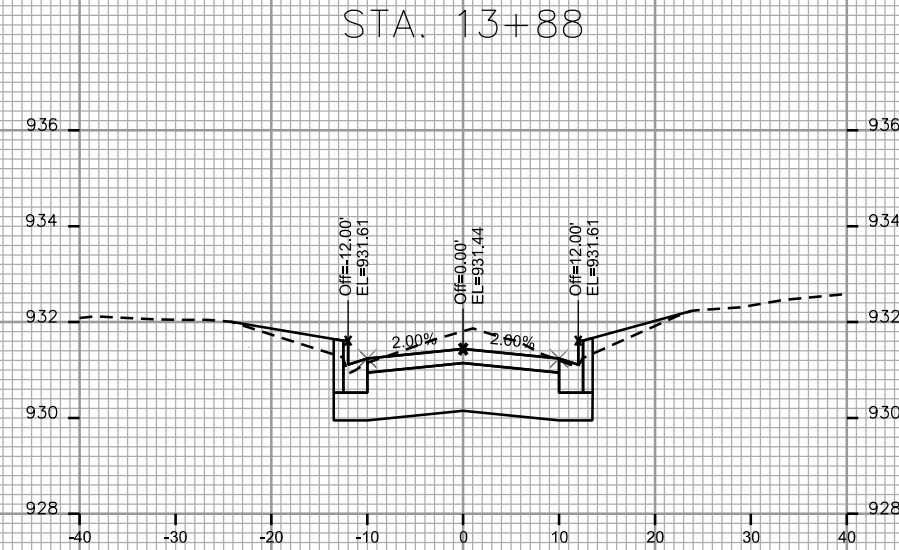
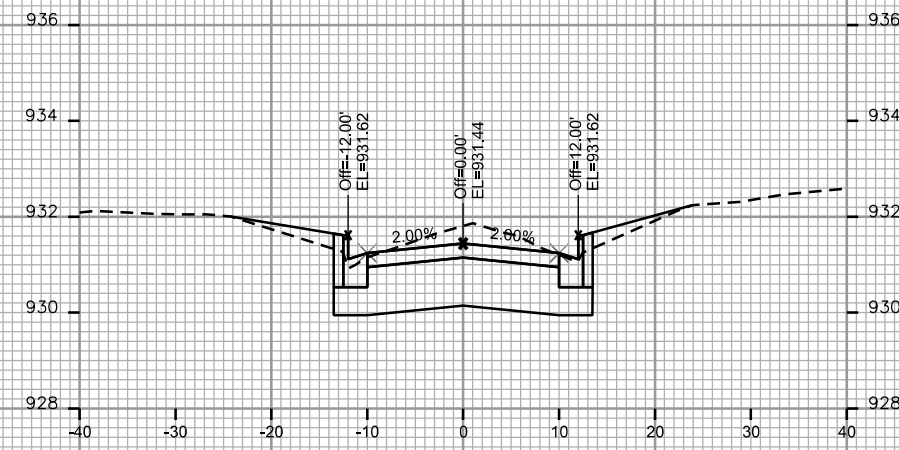
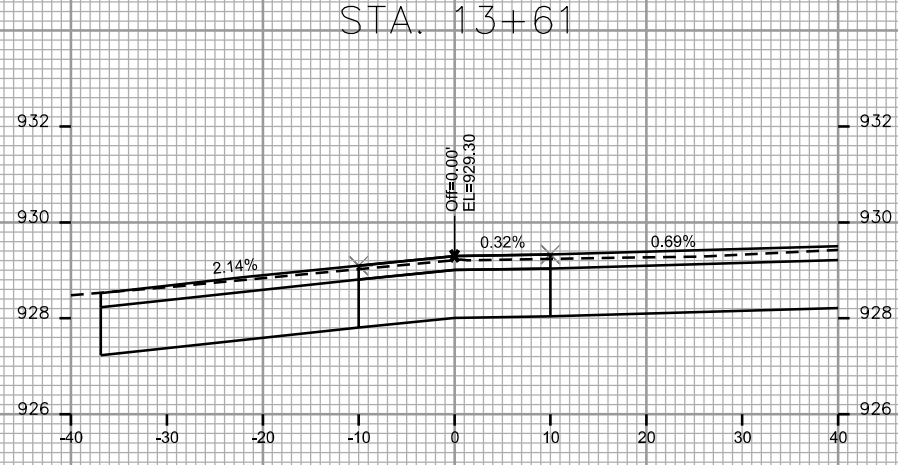
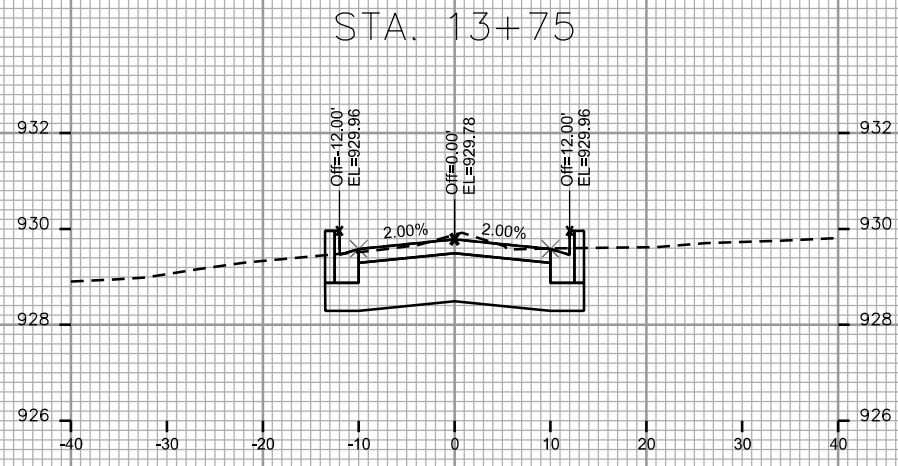
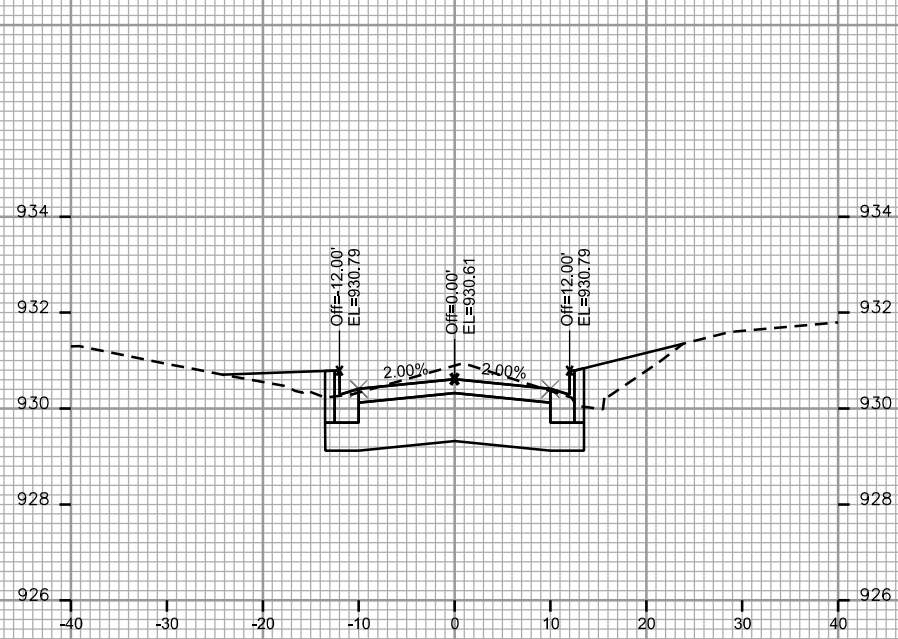
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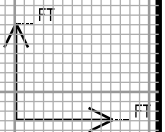
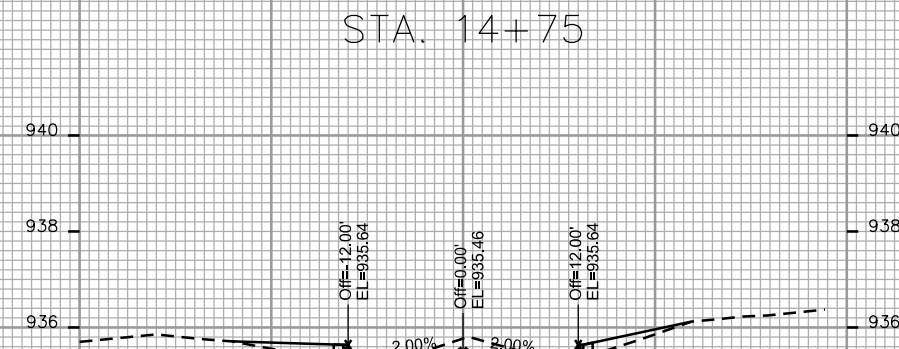
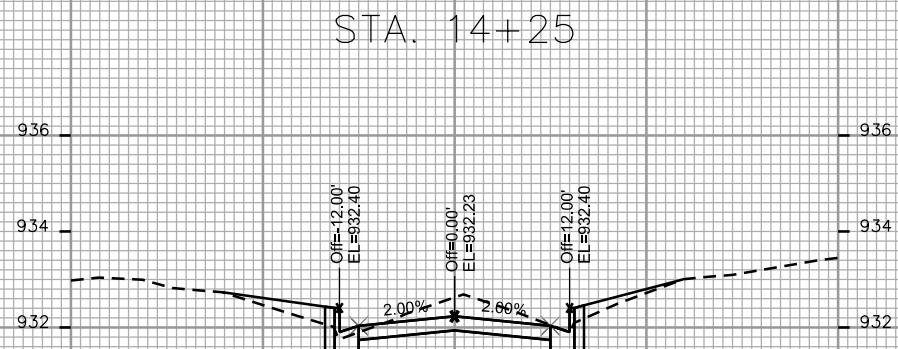
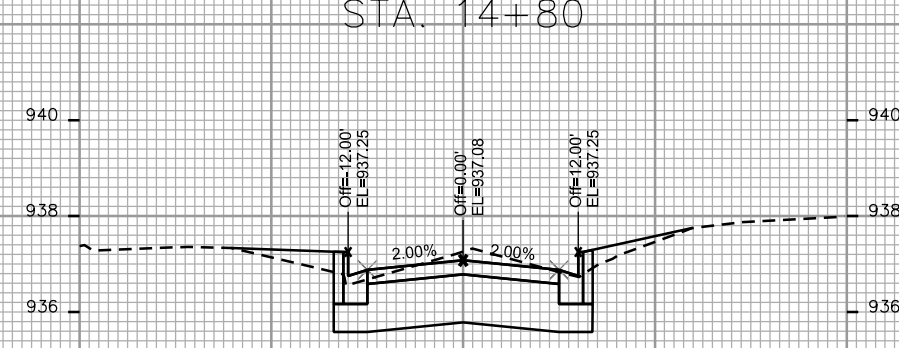
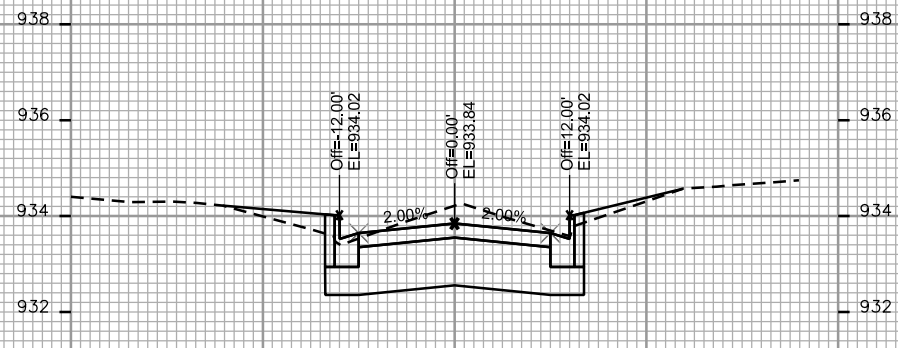
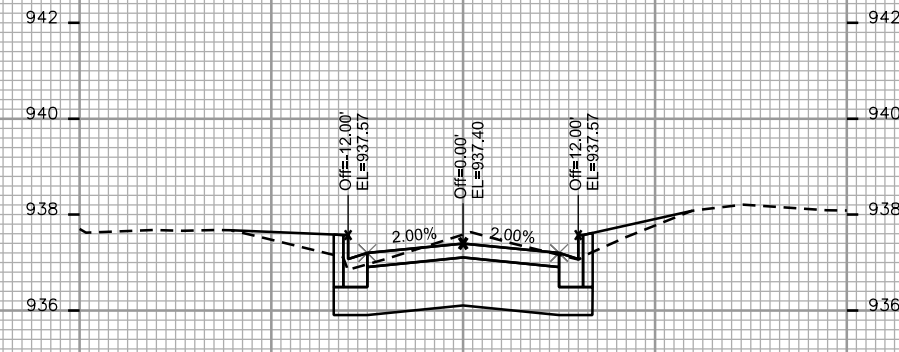
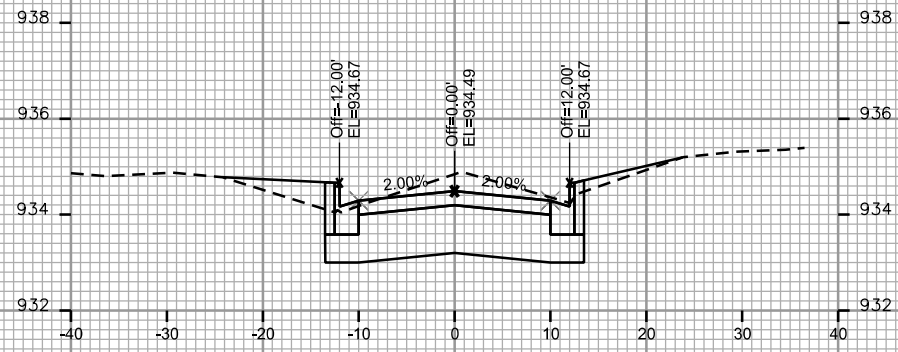
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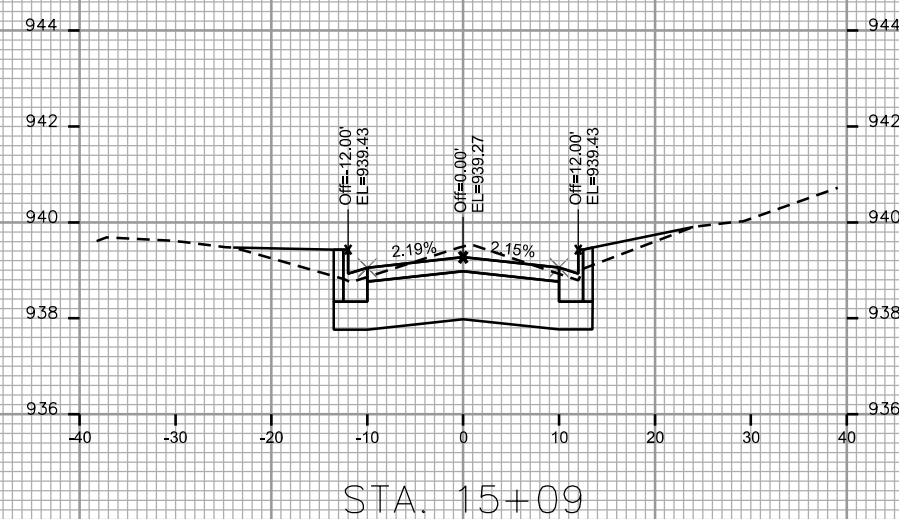
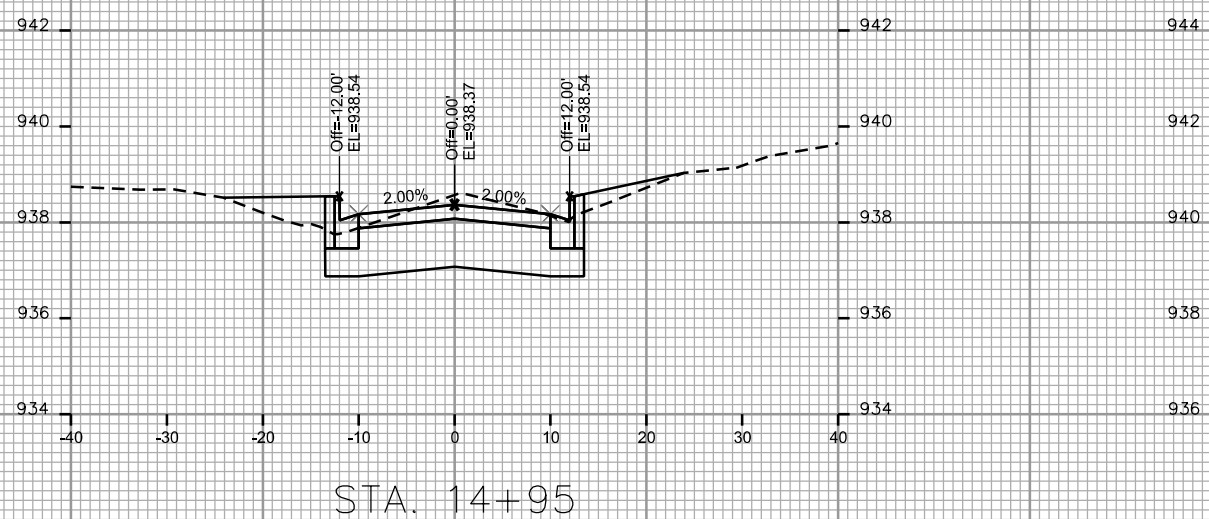
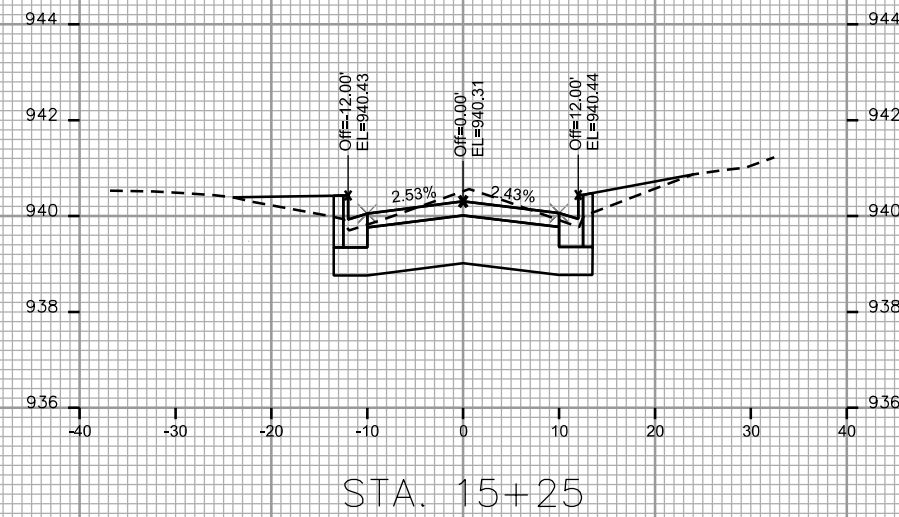
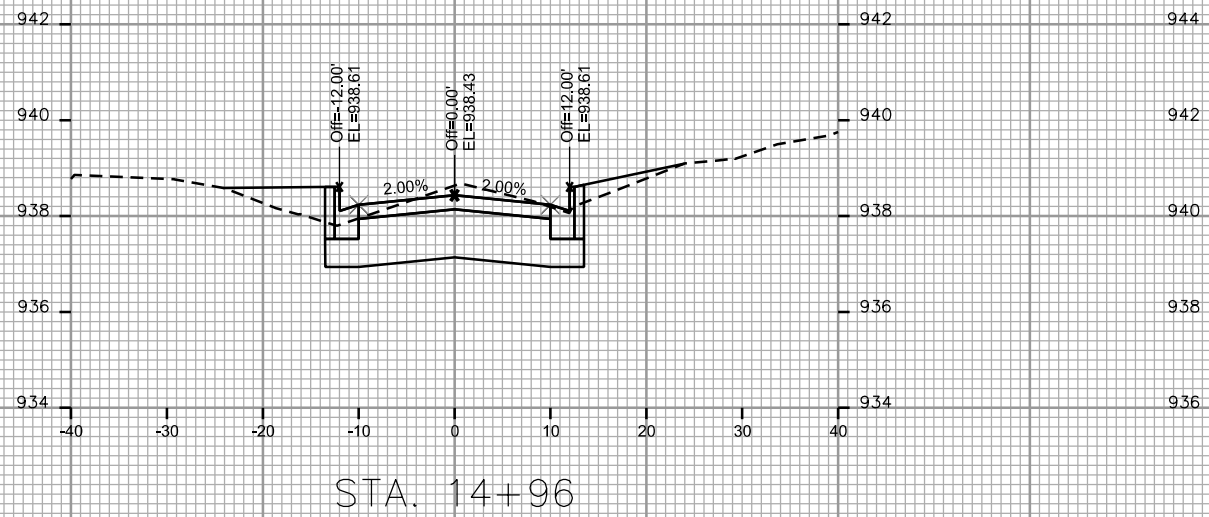
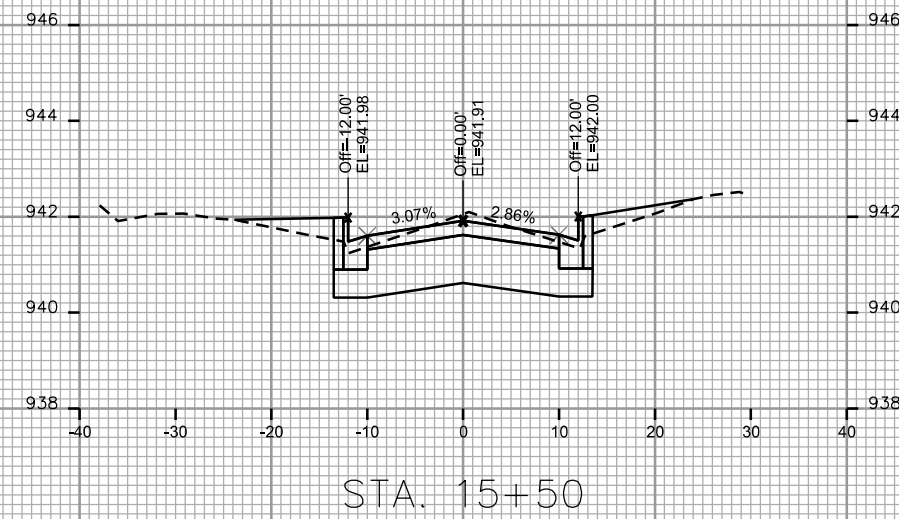
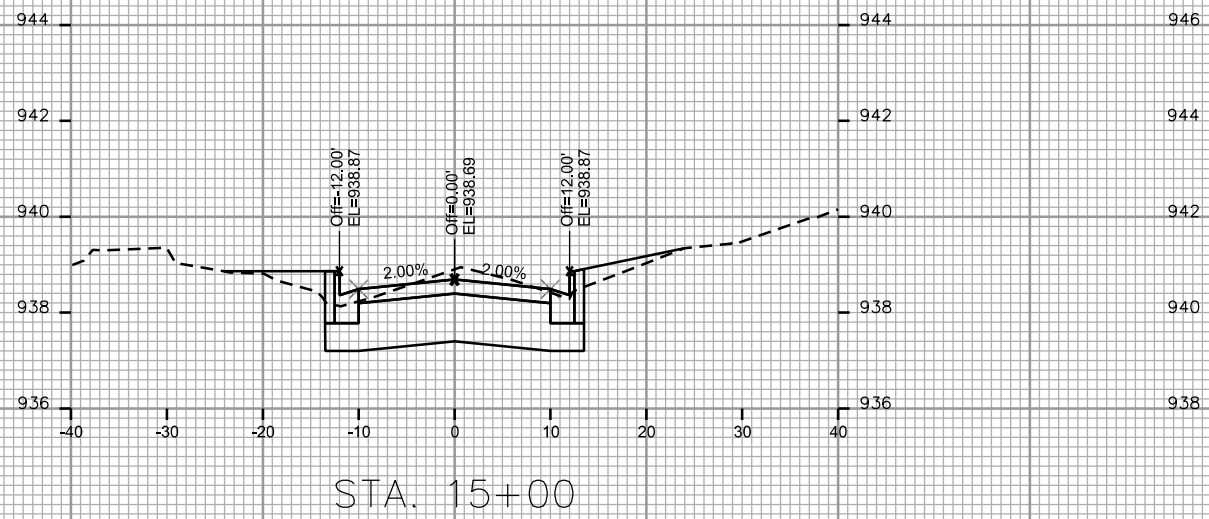
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