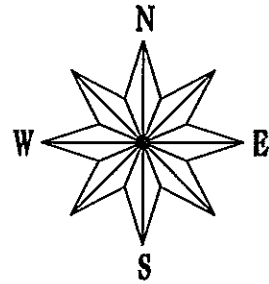


Madison, Wisconsin



CITY OF MADISON

CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

OWEN PARK DRAINAGE CHANNEL STABILIZATION - 2013

PROJECT NO. 53W1183
CONTRACT NO. 7194

NOTE: FIELD VERIFY UTILITIES

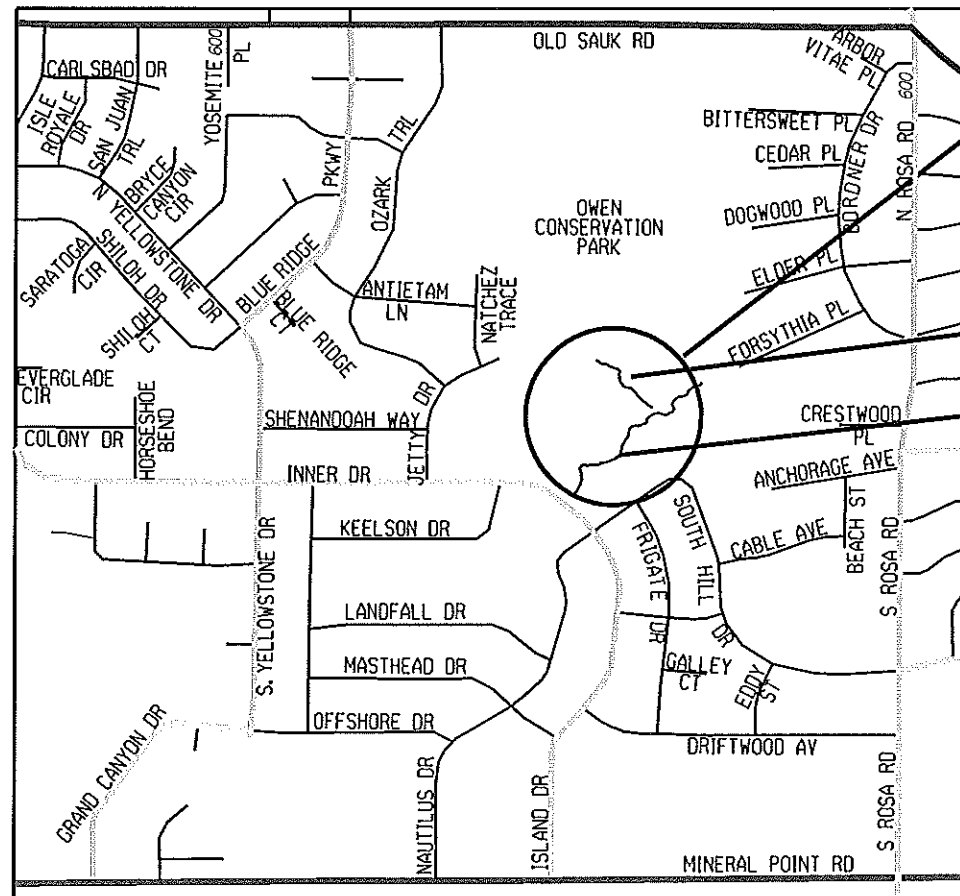
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
POWER POLE	— P —
RAILROAD	— R —

INDEX OF SHEETS

SHEET NO. D1-D2	DETAILS
SHEET NO. ECI-EC4	EROSION CONTROL PLAN
SHEET NO. P1-P4	PLAN/PROFILE
SHEET NO. P5	STORM SCHEDULE
SHEET NO. XI-X18	CROSS-SECTIONS

EARTHWORK SUMMARY

EXCAVATION (PAID AS PLAN QUANTITY)	812 CY
UNDERCUT (EST.)	0 CY
FILL BORROW (PAID ONLY FOR IMPORTED FILL)	0 CY
TOTAL	812 CY



PROJECT LOCATION

SECONDARY CHANNEL

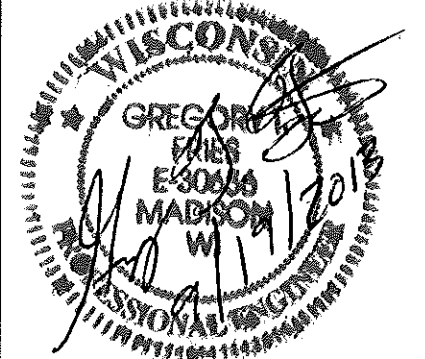
PRIMARY CHANNEL

STREET PROJECT APPROVED
AUGUST 6, 2013
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

DESIGN
APPROVED BY:

[Signature] 9/20/13
City Engineer Date

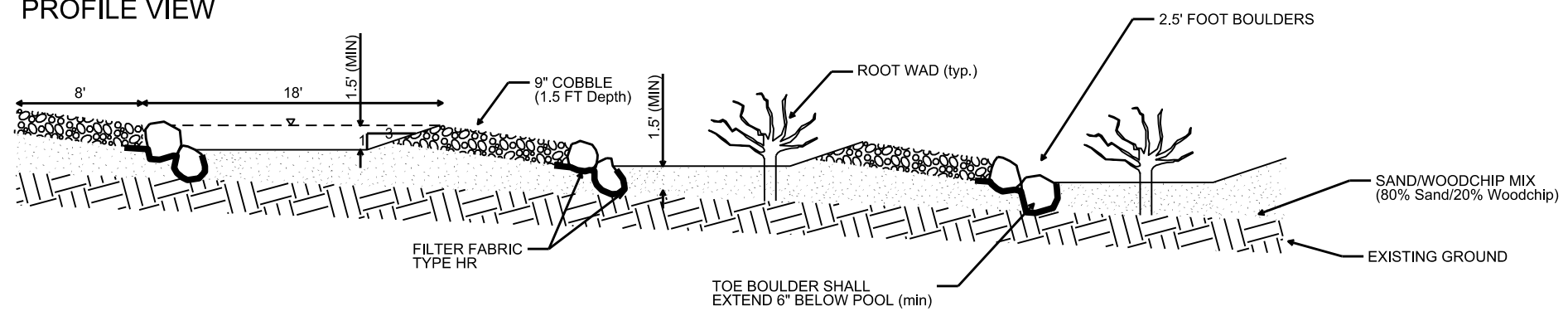
STORM SEWER
APPROVED BY:



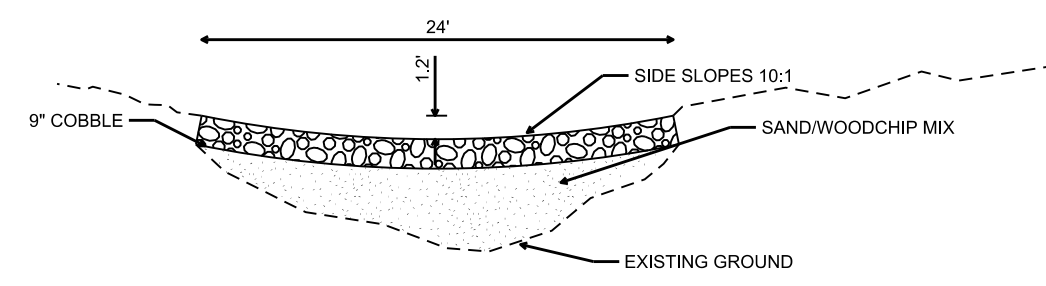
DETAILS

RIFFLE AND POOL CONVEYANCE SYSTEM

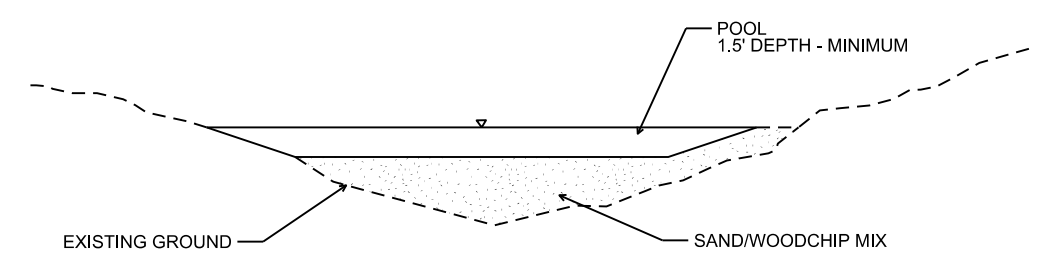
PROFILE VIEW



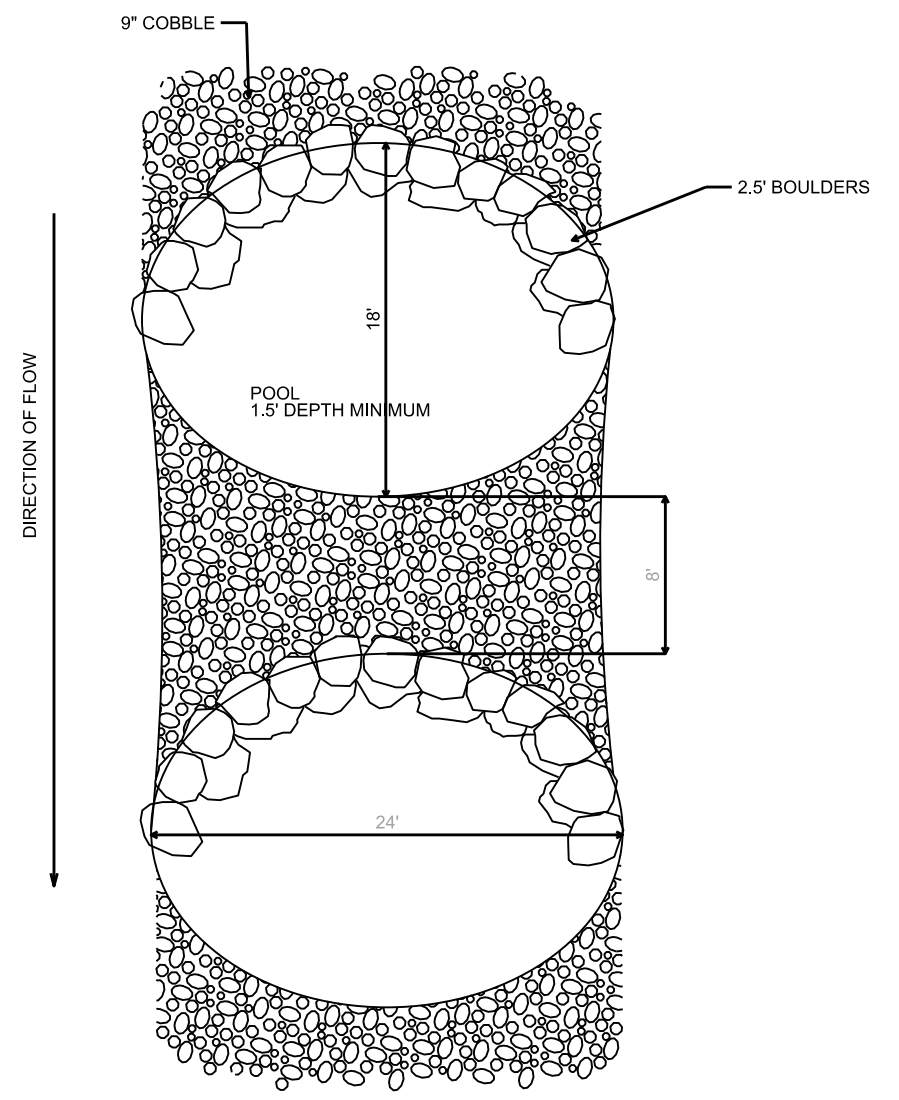
CROSS-SECTION VIEW - RIFFLE



CROSS-SECTION VIEW - POOL



PLAN VIEW



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

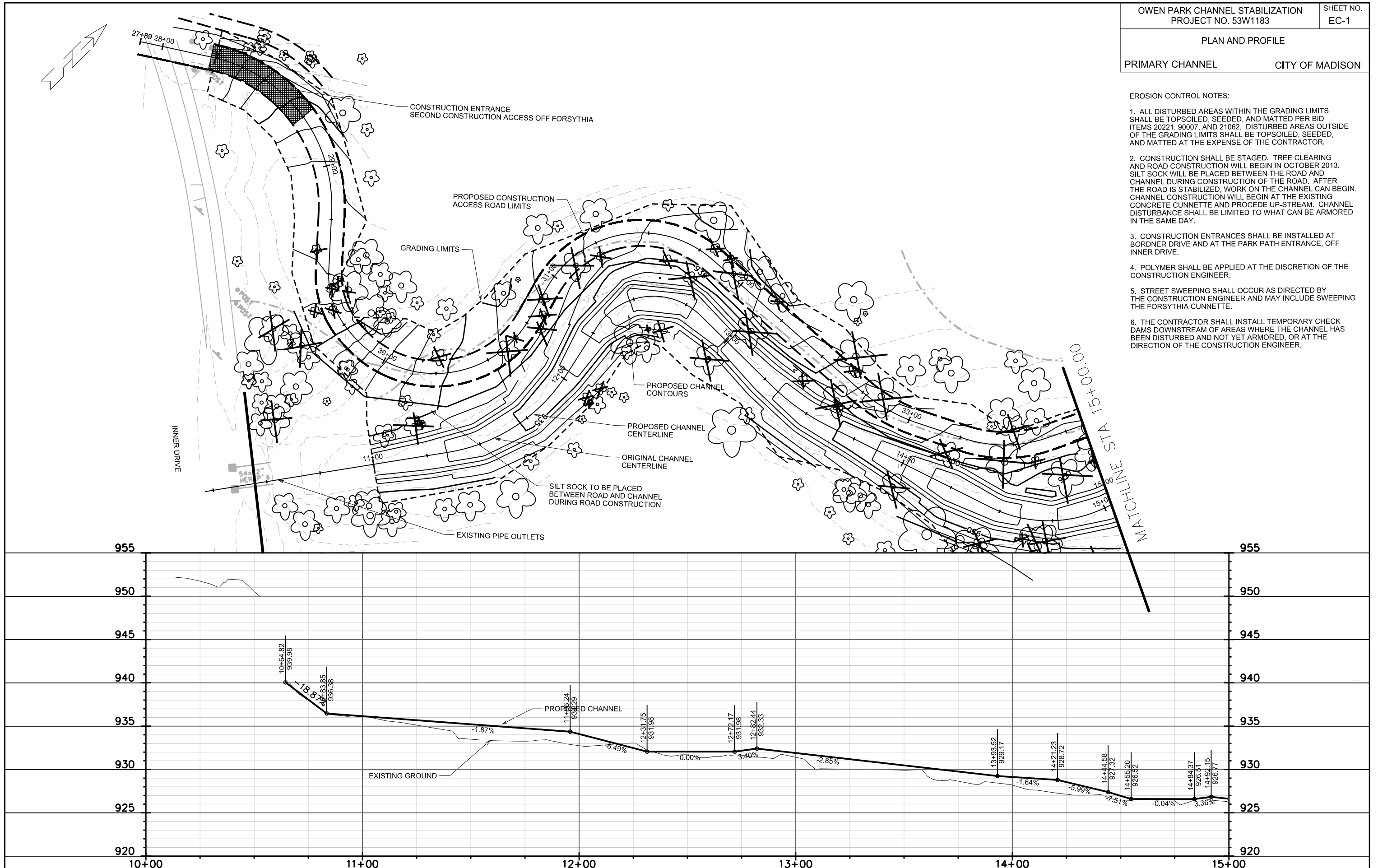
PLAN AND PROFILE

PRIMARY CHANNEL

CITY OF MADISON

EROSION CONTROL NOTES:

1. ALL DISTURBED AREAS WITHIN THE GRADING LIMITS SHALL BE TOPSOILED, SEEDED, AND MATTED PER BID ITEMS 20221, 90007, AND 21062. DISTURBED AREAS OUTSIDE OF THE GRADING LIMITS SHALL BE TOPSOILED, SEEDED, AND MATTED AT THE EXPENSE OF THE CONTRACTOR.
2. CONSTRUCTION SHALL BE STAGED. TREE CLEARING AND ROAD CONSTRUCTION WILL BEGIN IN OCTOBER 2013. SILT SOCK WILL BE PLACED BETWEEN THE ROAD AND CHANNEL DURING CONSTRUCTION OF THE ROAD. AFTER THE ROAD IS STABILIZED, WORK ON THE CHANNEL CAN BEGIN. CHANNEL CONSTRUCTION WILL BEGIN AT THE EXISTING CONCRETE CUNNETTE AND PROCEED UP-STREAM. CHANNEL DISTURBANCE SHALL BE LIMITED TO WHAT CAN BE ARMORED IN THE SAME DAY.
3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT BORDNER DRIVE AND AT THE PARK PATH ENTRANCE, OFF INNER DRIVE.
4. POLYMER SHALL BE APPLIED AT THE DISCRETION OF THE CONSTRUCTION ENGINEER.
5. STREET SWEEPING SHALL OCCUR AS DIRECTED BY THE CONSTRUCTION ENGINEER AND MAY INCLUDE SWEEPING THE FORSYTHIA CUNNETTE.
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PLOT SCALE: _____

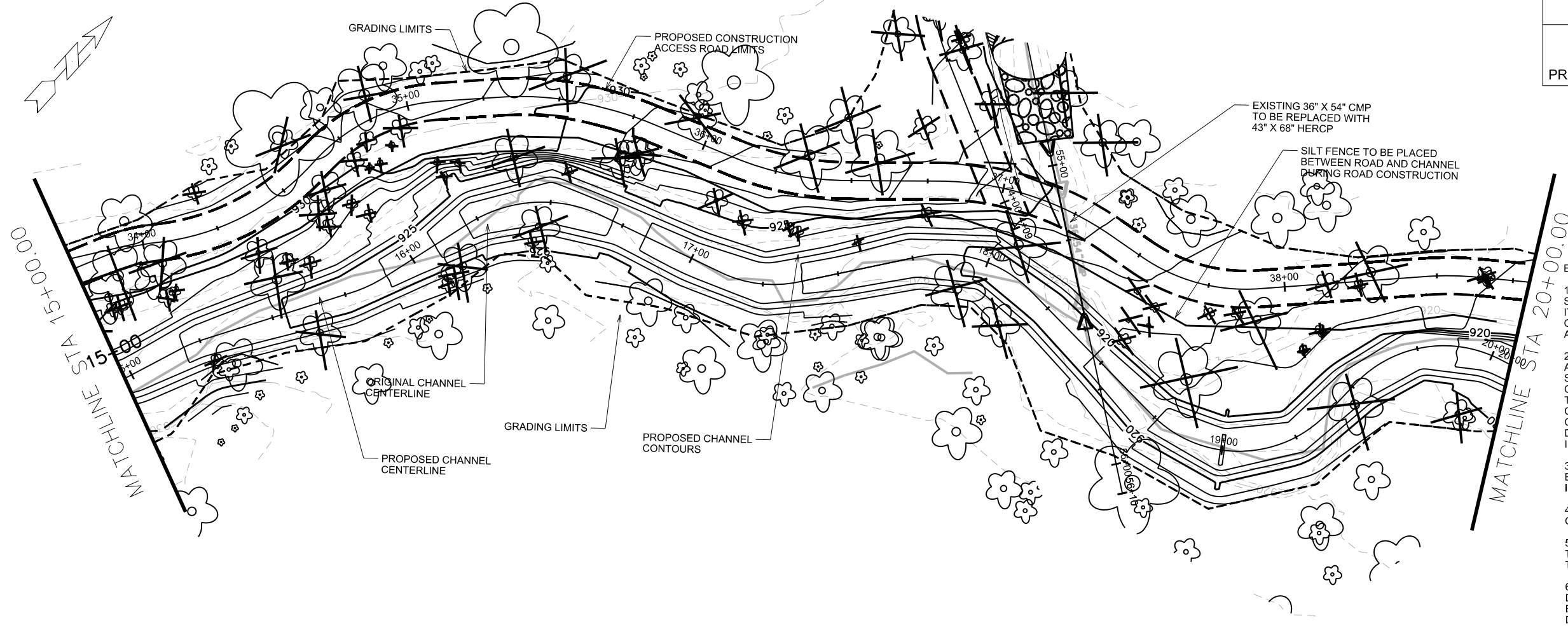
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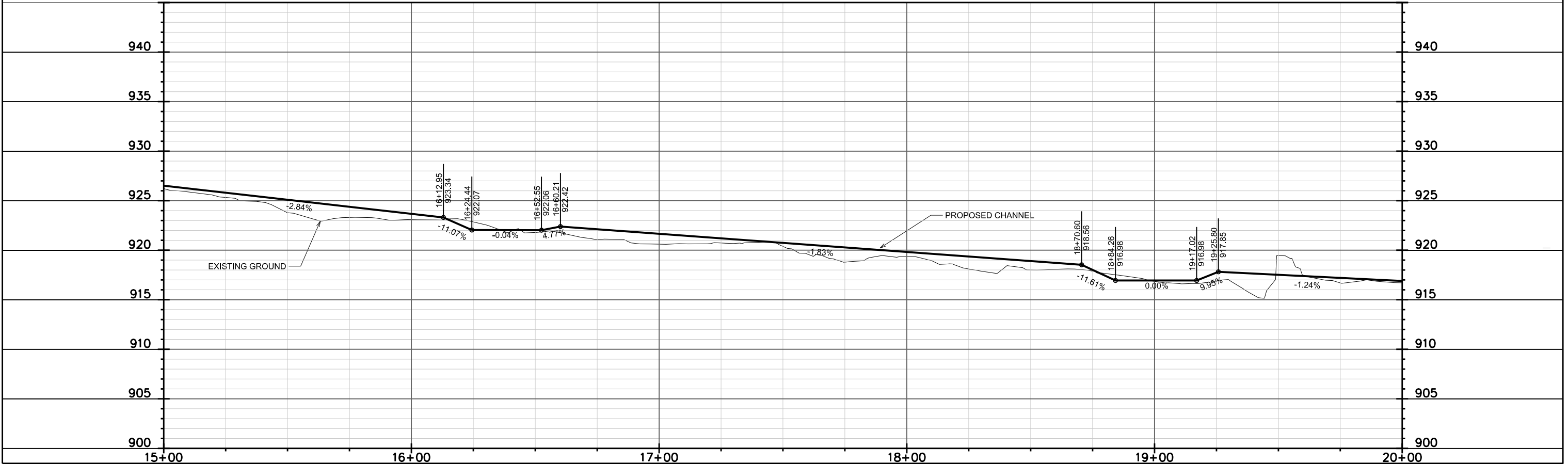
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PLAN AND PROFILE

PRIMARY CHANNEL CITY OF MADISON



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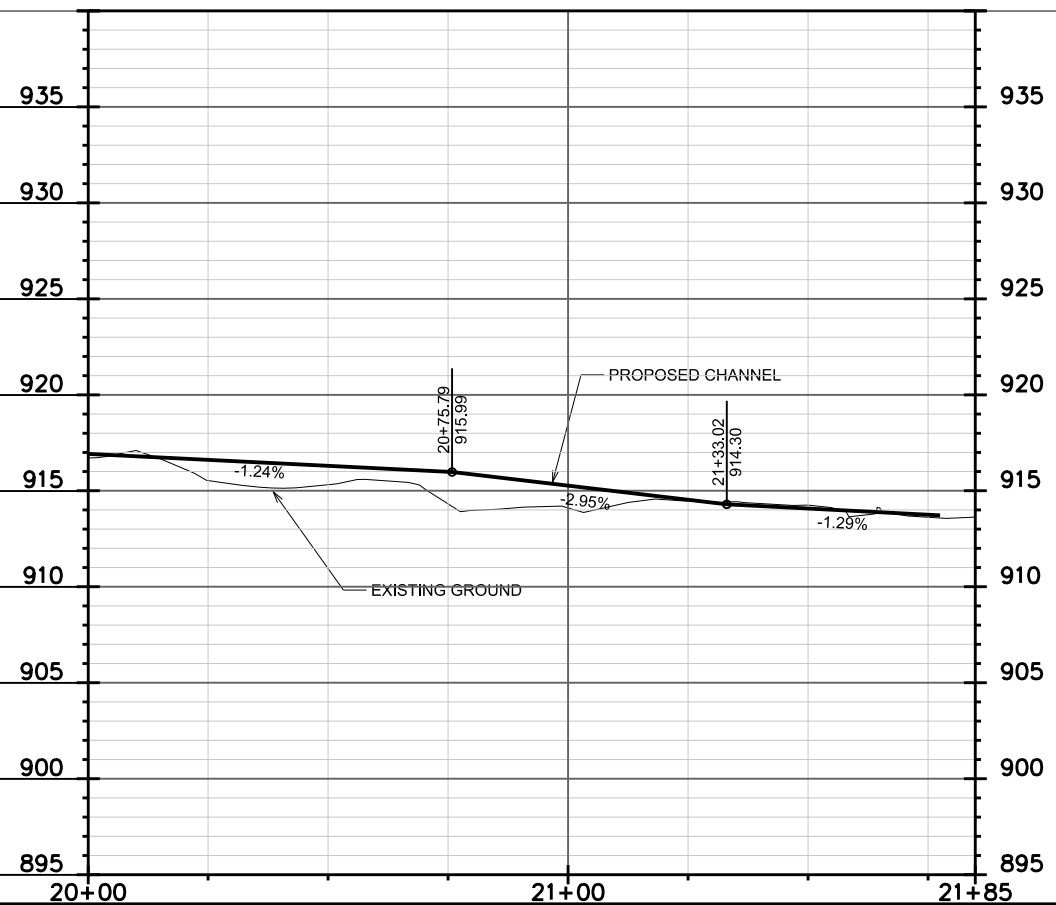
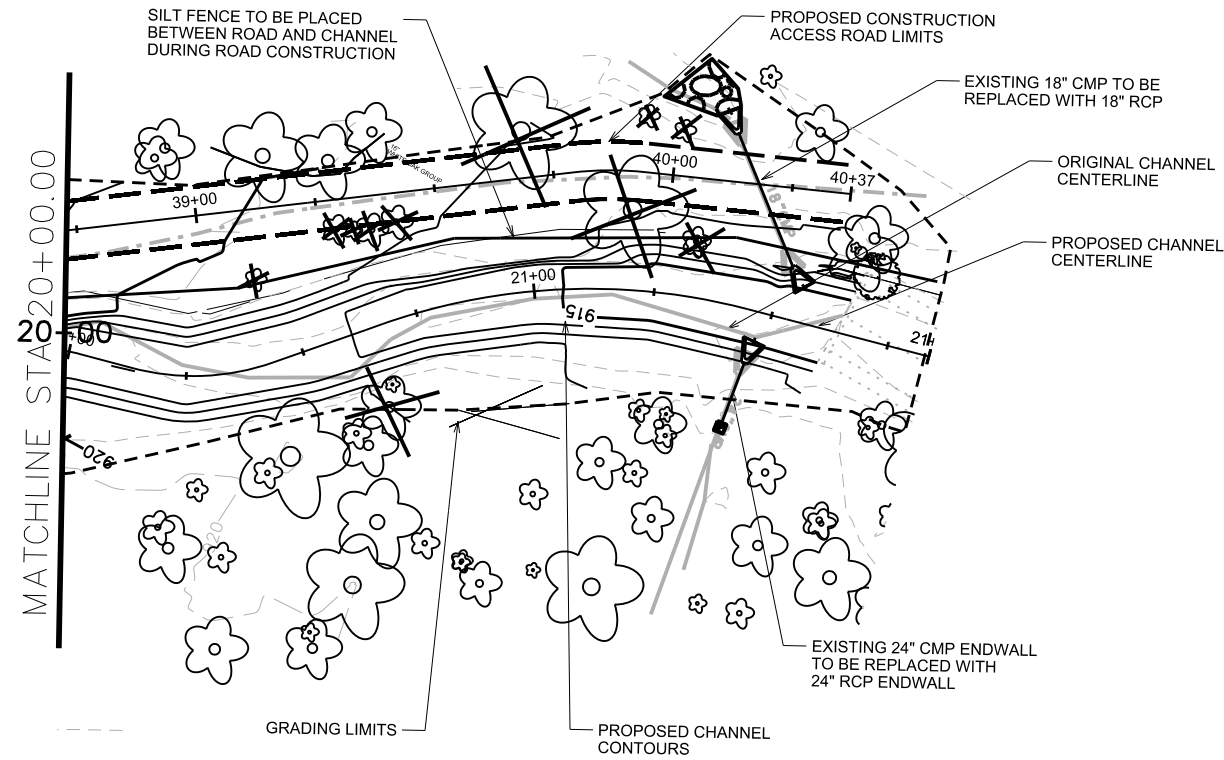
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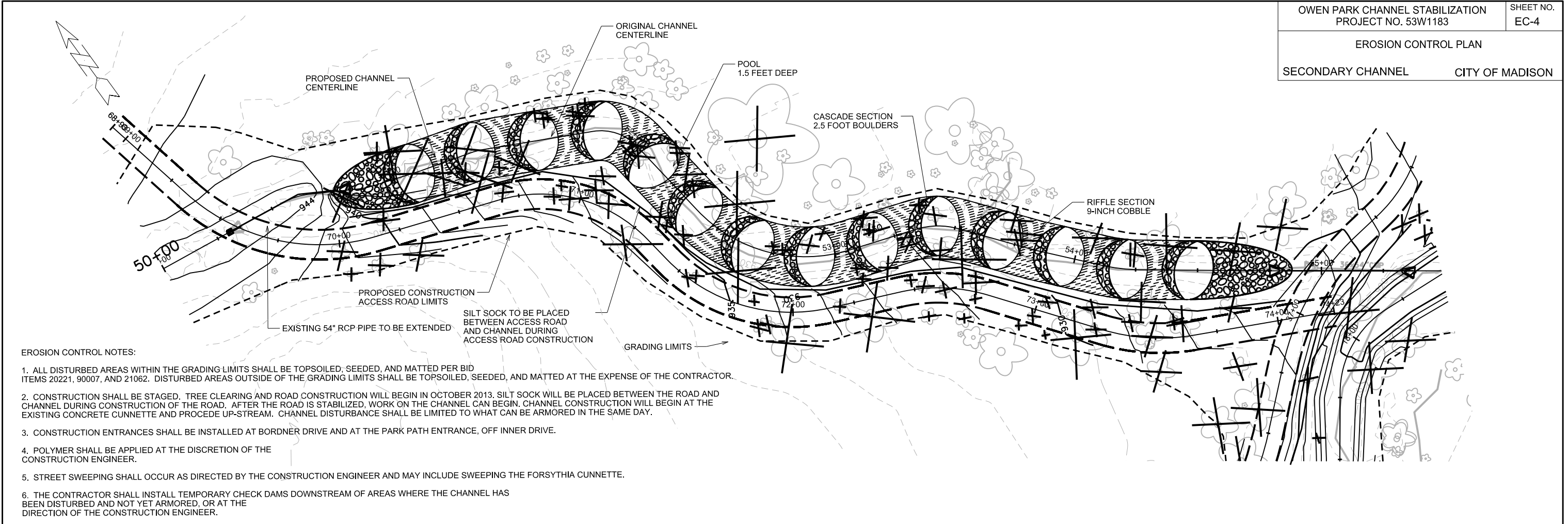


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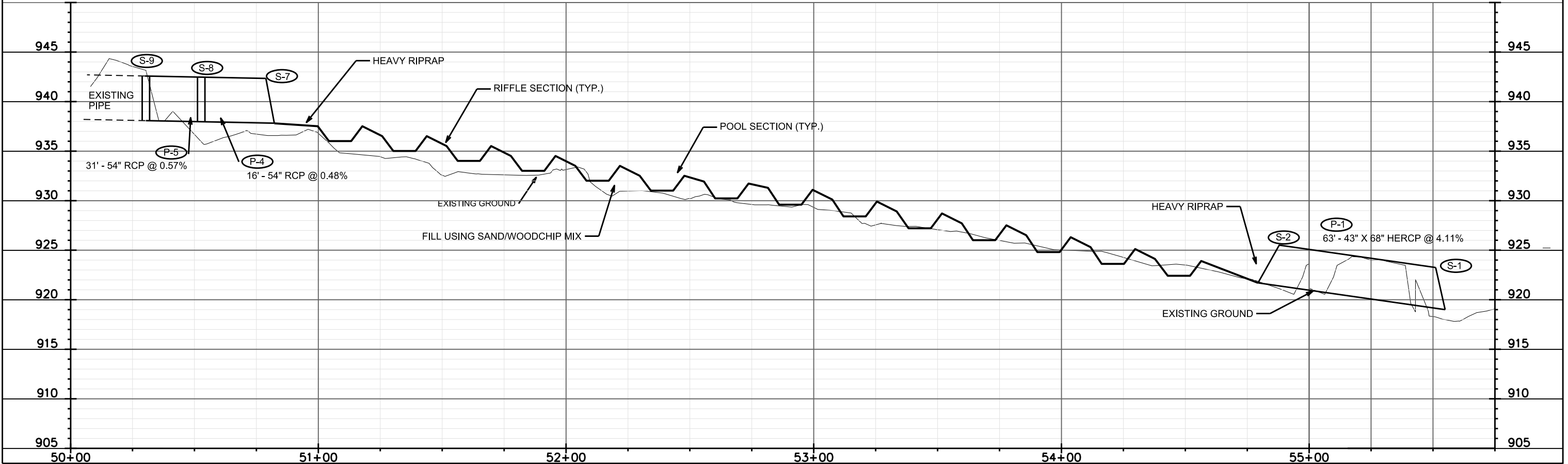
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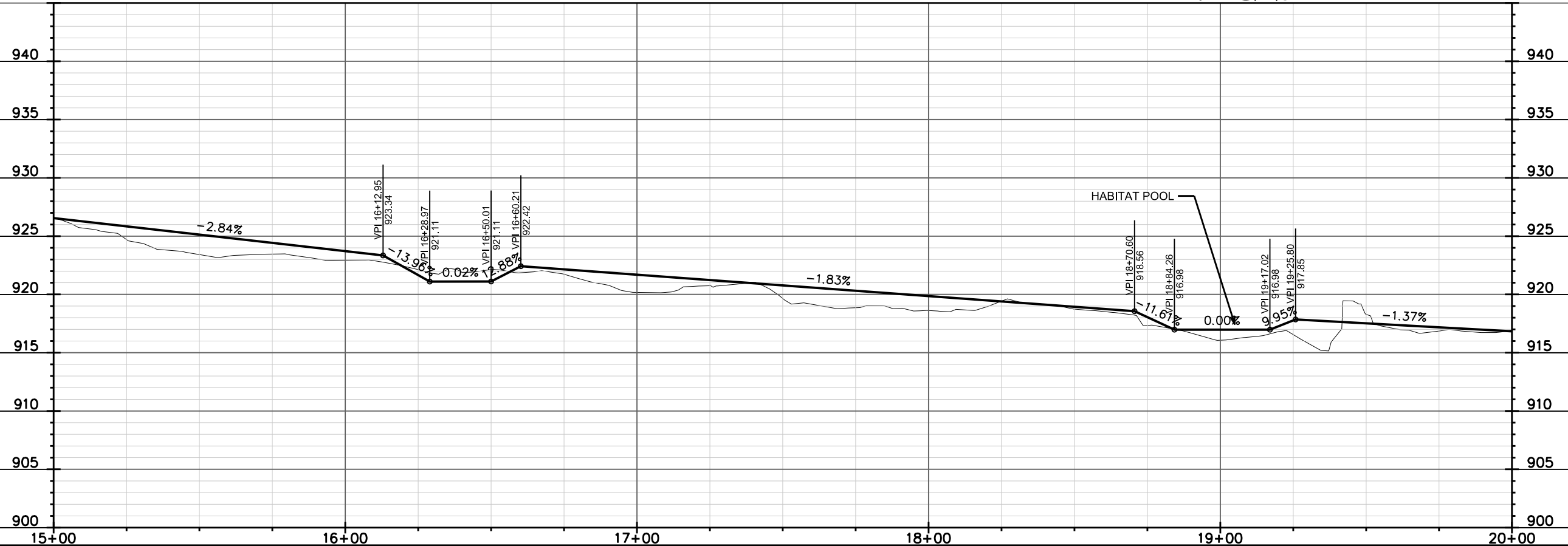
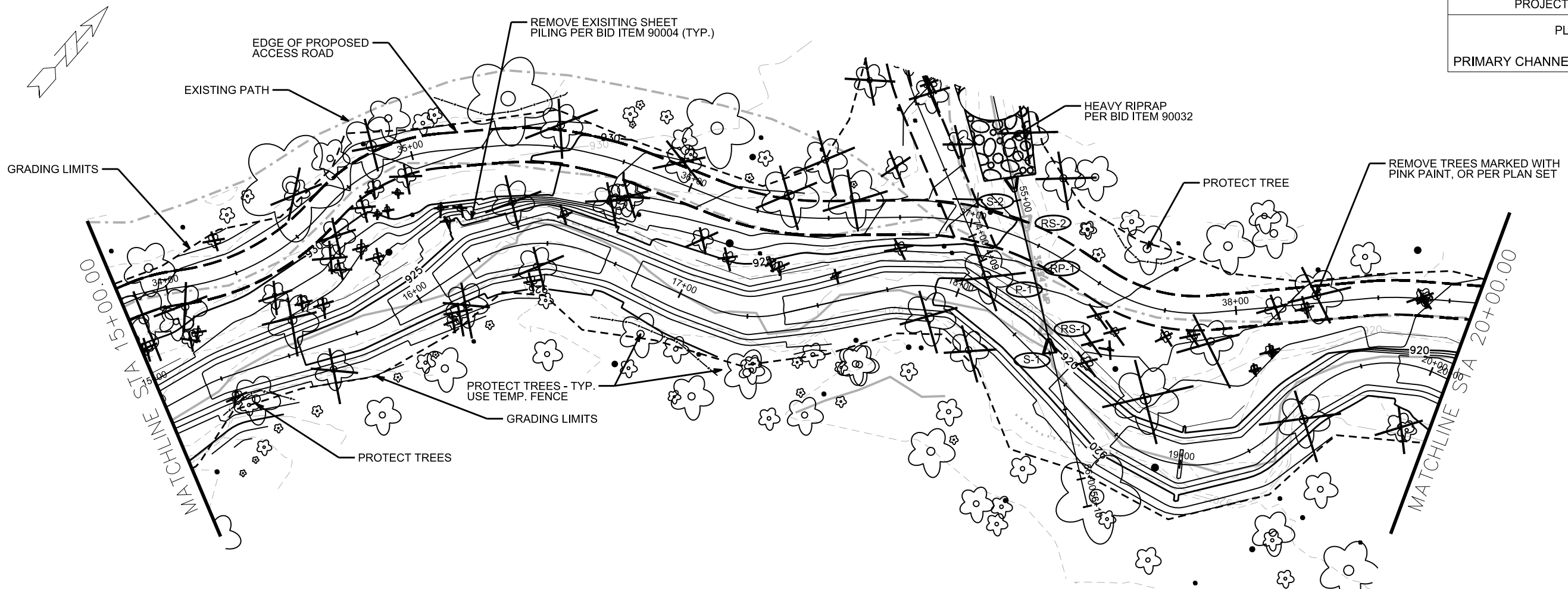
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PLAN AND PROFILE

PRIMARY CHANNEL

CITY OF MADISON



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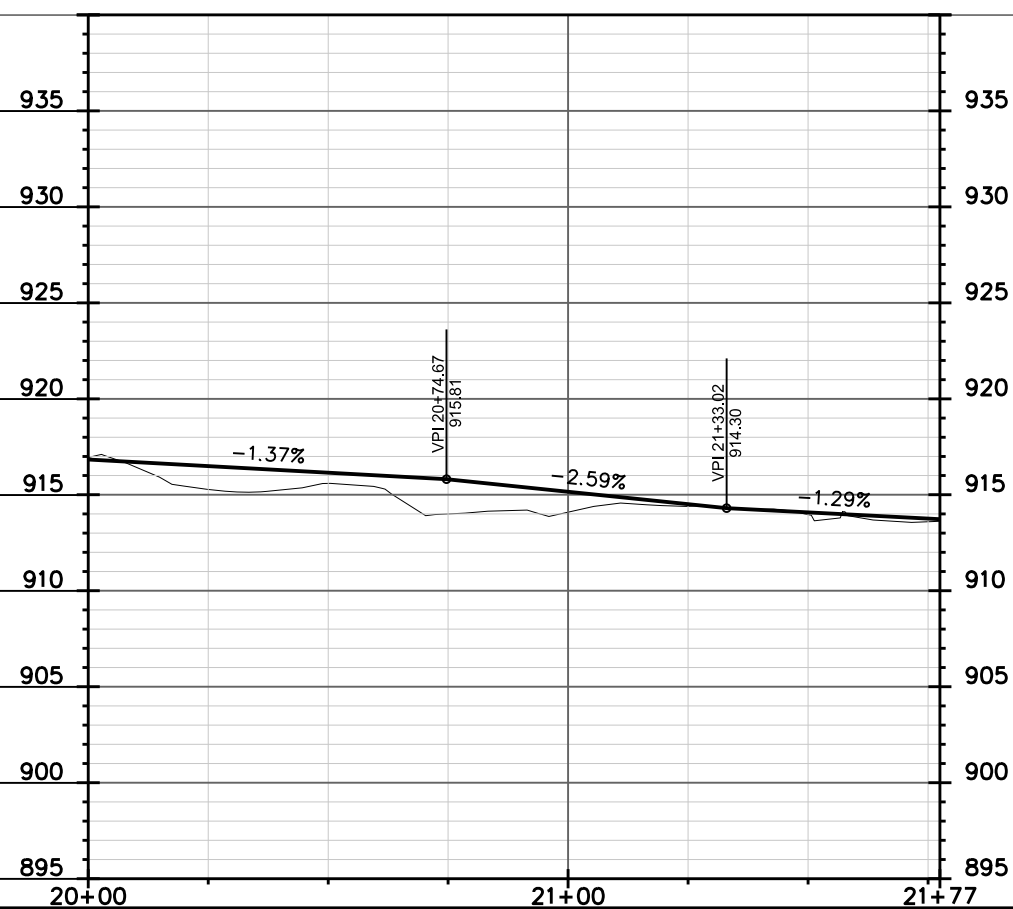
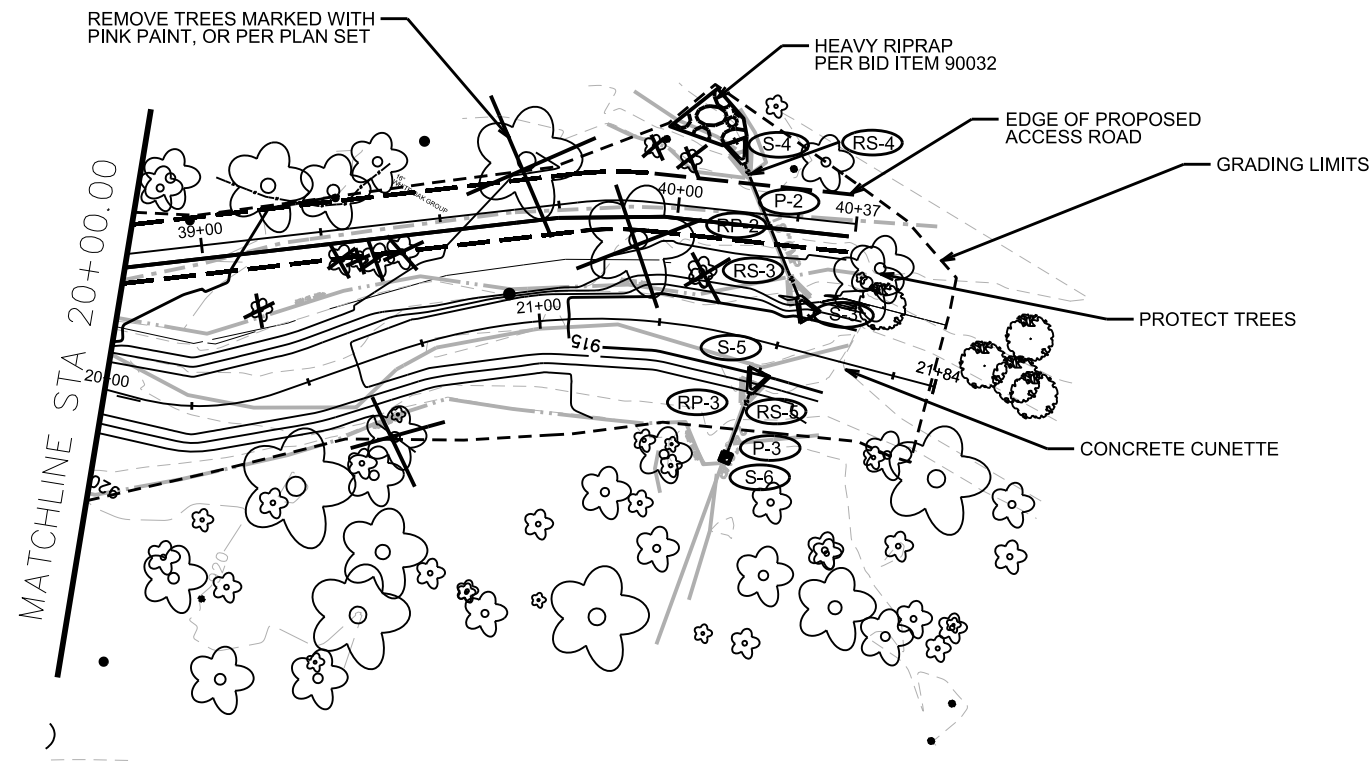
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PLAN AND PROFILE

PRIMARY CHANNEL

CITY OF MADISON

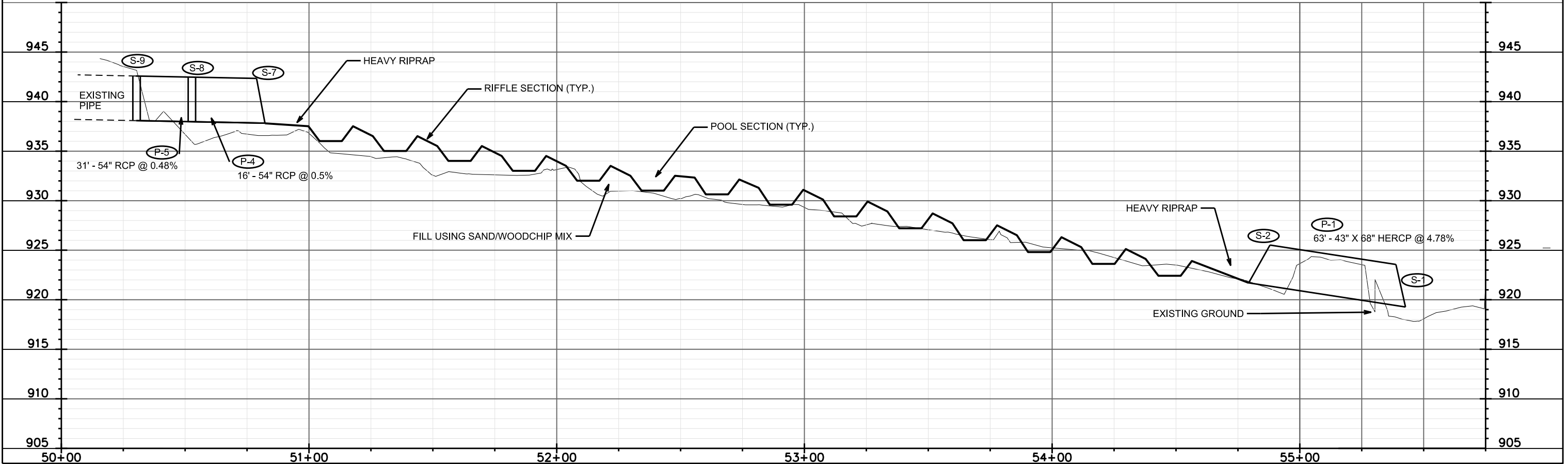
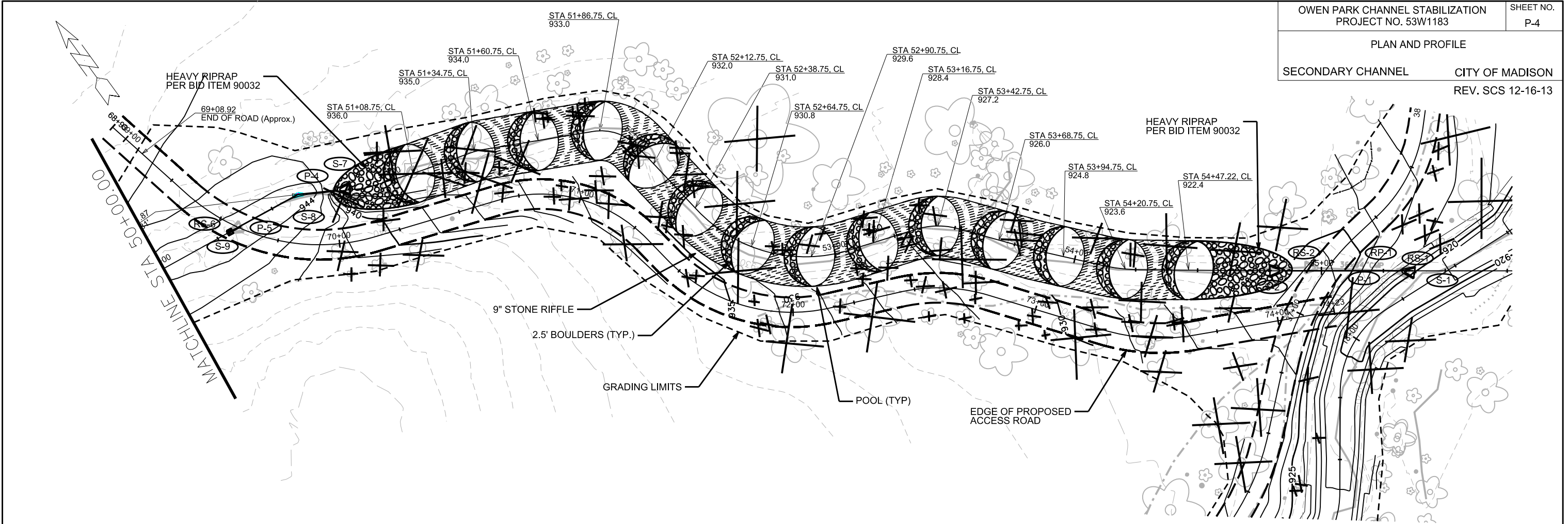


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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

STORM SEWER SCHEDULE

ALIGNMENT CODES:

'PC' - PRIMARY CHANNEL
'SC' - SECONDARY CHANNEL

* REV SCS 12-16-2013

OWEN PARK CHANNEL STABILIZATION

SHEET NO.

PROJECT NO. 53W1183

P-5

STORM SEWER SCHEDULE

CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
* S-1	55'SC'+37.52	RT-.73	(1), APRON ENDWALL	--	919.30	--	43" X 68" AE W/ GATE
* S-2	54'SC'+79.18	CL	(1), APRON ENDWALL	--	921.70	--	43" X 68" AE W/ GATE
S-3	21'PC'+55.21	LT-7.37	(1), APRON ENDWALL	--	914.15	--	18" AE W/ GATE
S-4	21'PC'+34.11	LT-39.55	(1), APRON ENDWALL	--	914.77	--	18" AE W/ GATE
S-5	21'PC'+47.87	RT-6.12	(1), APRON ENDWALL	--	914.20	--	24" AE W/ GATE
S-6	21'PC'+39.13	RT-25.27	(2), CONCRETE COLLAR	--	914.35	--	24" COLLAR
* S-7	50'SC'+82.73	LT-.46	(1), (3) APRON ENDWALL	--	937.78	--	54" AE W/ GATE
* S-8	50'SC'+61.87	LT-.81	FIELD BEND	--	937.88	--	FP, 54" FIELD BEND
* S-9	50'SC'+30.57	CL	CONCRETE COLLAR	--	938.06	--	54" COLLAR

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
* P-1	S-1	S-2	58.4	919.30	921.70	4.11%	43" X 68"	HERCP	
P-2	S-3	S-4	29.9	914.15	914.77	2.07%	18"	RCP	
P-3	S-5	S-6	14.2	914.20	914.35	1.06%	24"	RCP	
* P-4	S-7	S-8	21.0	937.78	937.88	0.48%	54"	RCP	
* P-5	S-8	S-9	31.4	937.88	938.06	0.57%	54"	RCP	

STRUCTURE REMOVALS

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
RS-1	55'SC'+46.21	LT-.13	APRON ENDWALL	--	919.00	--	
RS-2	55'SC'+07.91	LT-1.49	APRON ENDWALL	--	921.00	--	
RS-3	21'PC'+44.33	LT-12.06	APRON ENDWALL	--	917.00	--	
RS-4	21'PC'+29.43	LT-35.94	APRON ENDWALL	--	918.00	--	
RS-5	21'PC'+40.58	RT-11.13	APRON ENDWALL	--	917.00	--	
RS-6	50'SC'+30.59	CL	APRON ENDWALL	--	938.00	--	

PIPE REMOVALS AND ABANDONMENTS

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	TYPE	NOTES
RP-1	RS-1	RS-2	32	36" X 54"	CMP	NOT PAID REMOVAL
RP-2	RS-2	RS-3	23	18"	CMP	NOT PAID REMOVAL
RP-3	RS-5	S-6	12	18"	CMP	NOT PAID REMOVAL

SPECIFIC NOTES

- (1) STATION, LOCATION, AND E.I. IS TO END OF THE APRON CL
- (2) LISTED E.I. IS APPROXIMATE
- (3) IF POSSIBLE, CONTRACTOR SHALL SALVAGE AND REUSE EXISTING AE AND GATE

STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD Poured STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD Poured SHALL BE FIELD Poured. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD Poured) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT SALLY SWENSON OF CITY ENGINEERING AT (608) 266-4862 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

CROSS SECTIONS

PRIMARY ROAD/CHANNEL

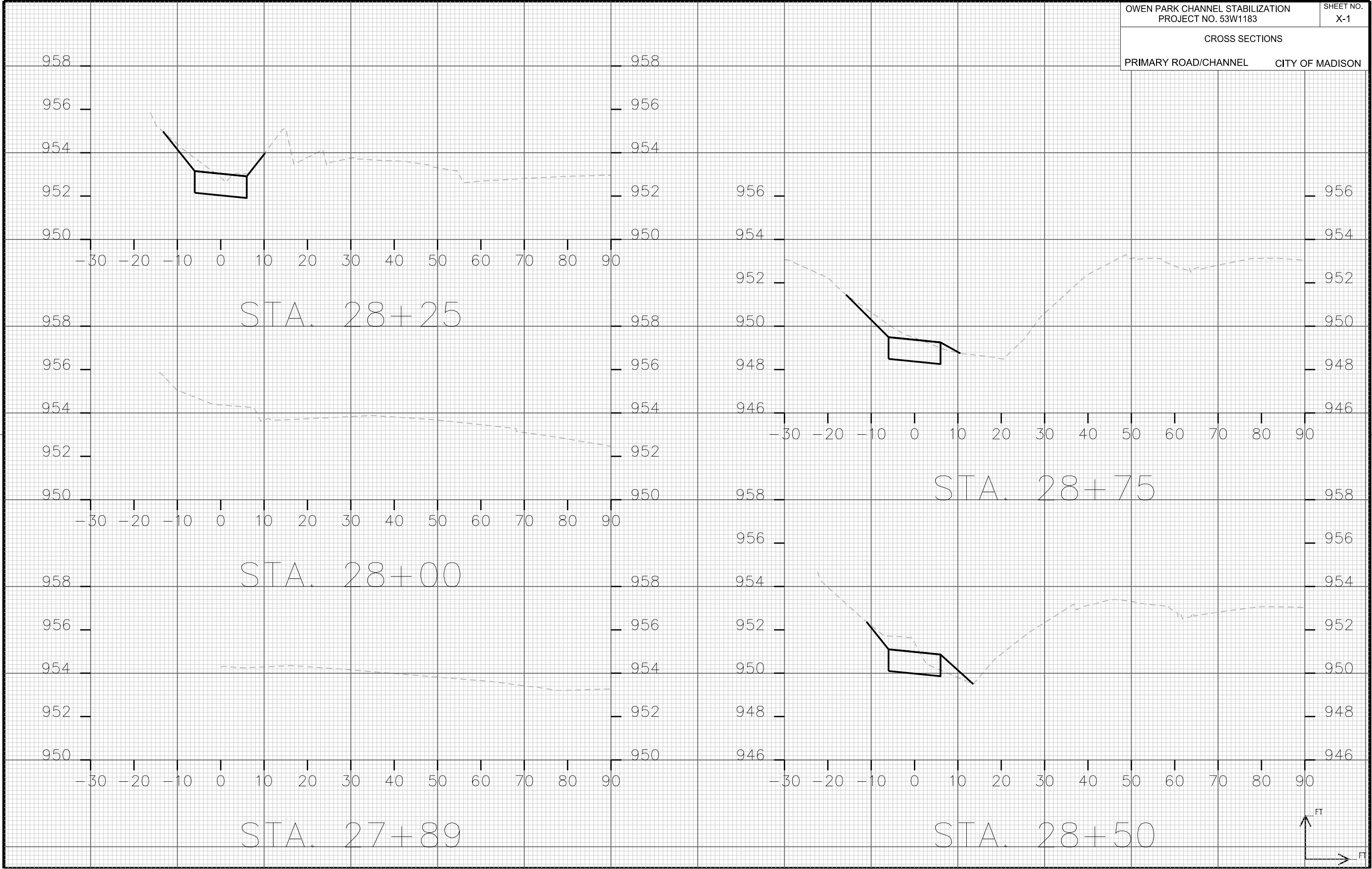
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

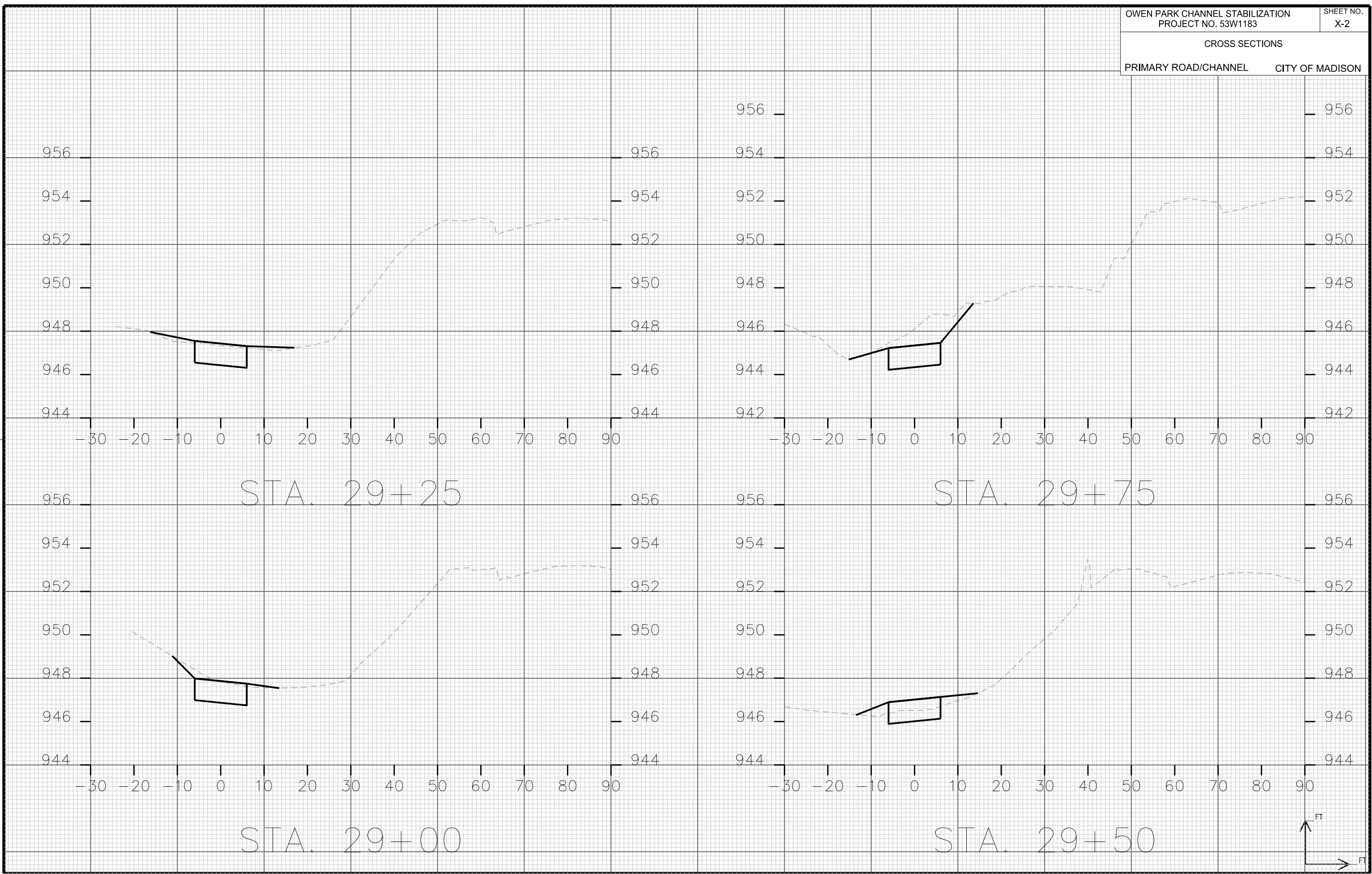


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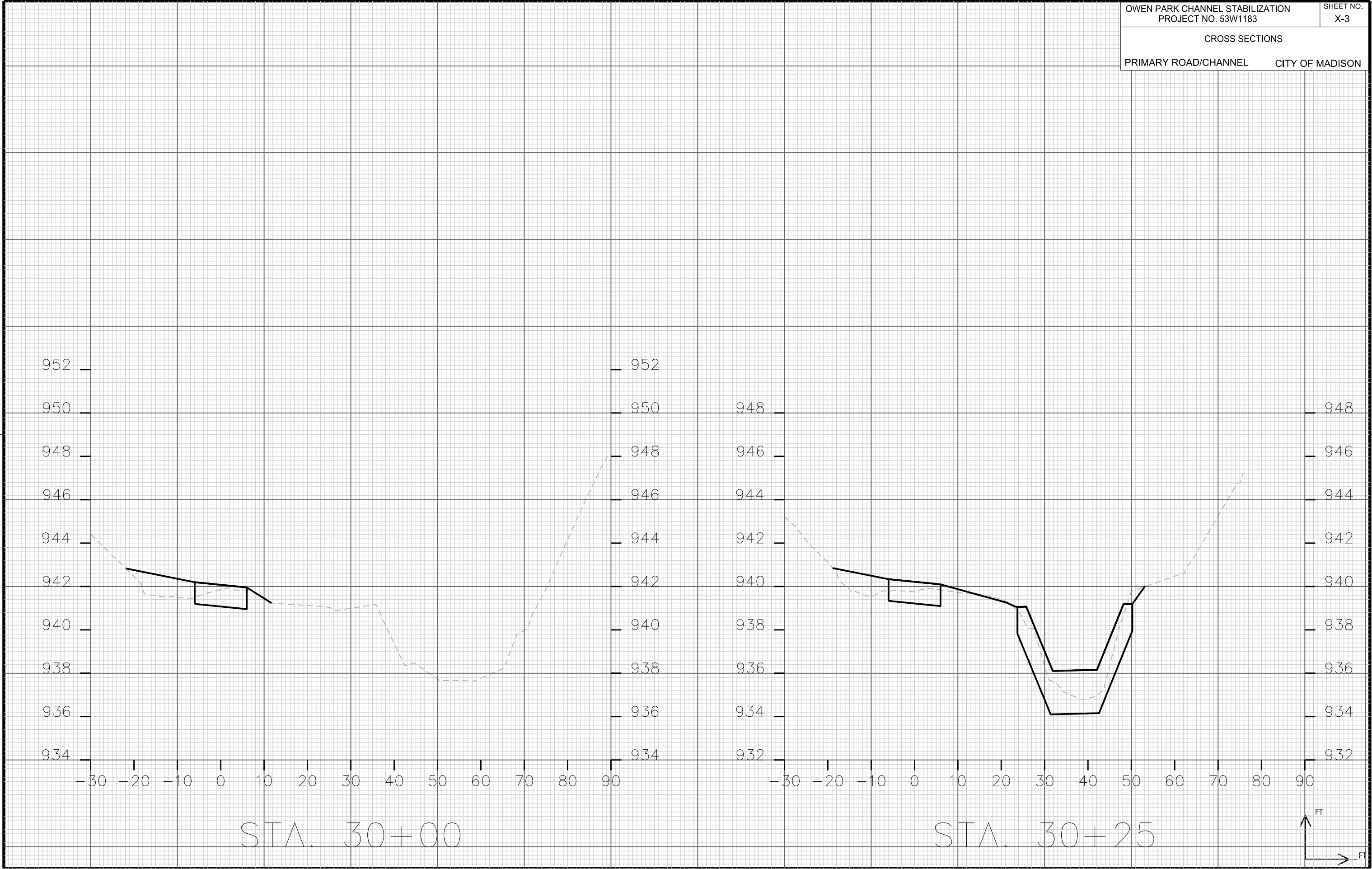
PRIMARY ROAD/CHANNEL CITY OF MADISON

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STA. 30+00

STA. 30+25



CROSS SECTIONS

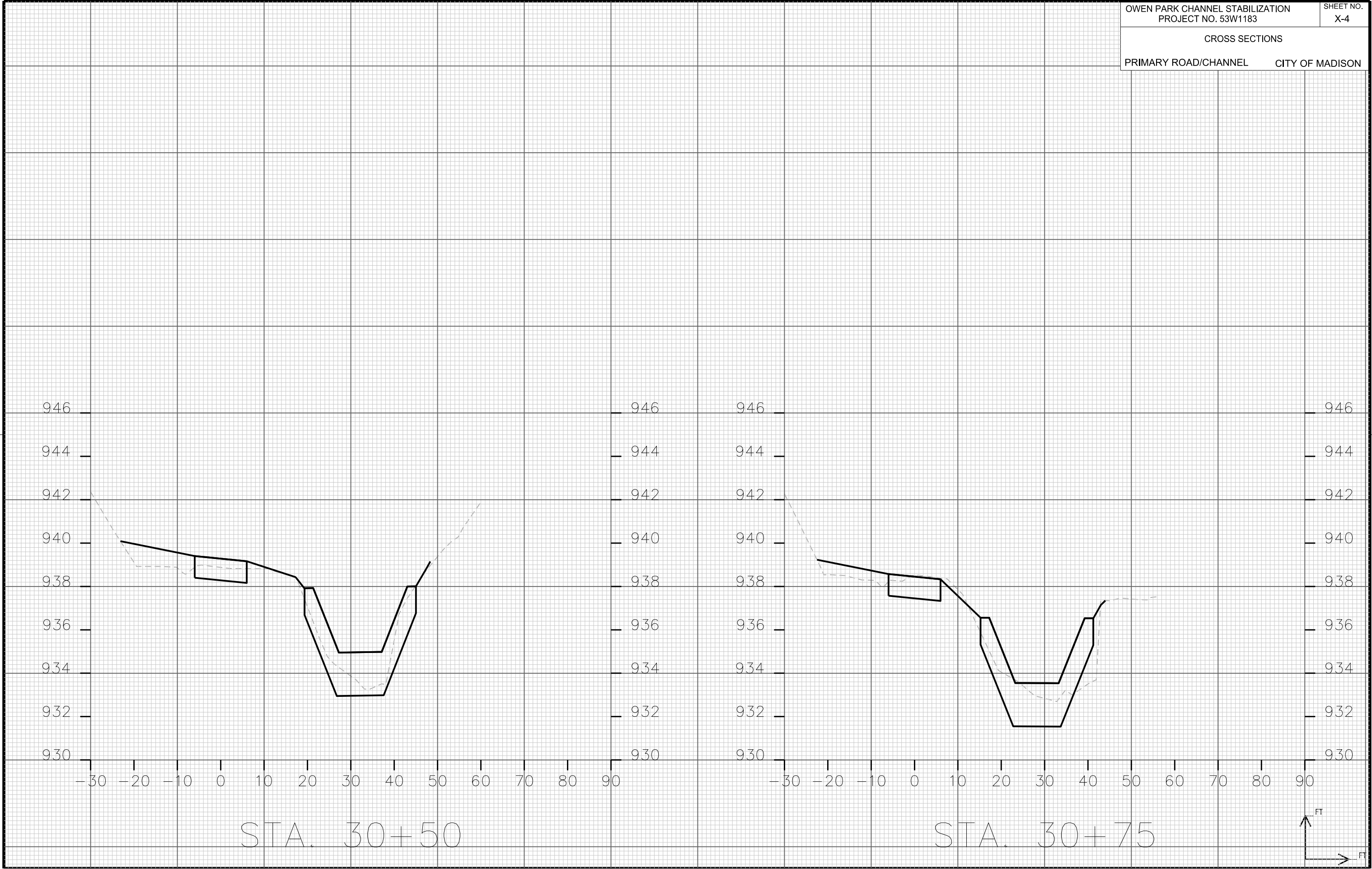
PRIMARY ROAD/CHANNEL CITY OF MADISON

PLOT SCALE: _____

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STA. 30+50

STA. 30+75



CROSS SECTIONS

PRIMARY ROAD/CHANNEL

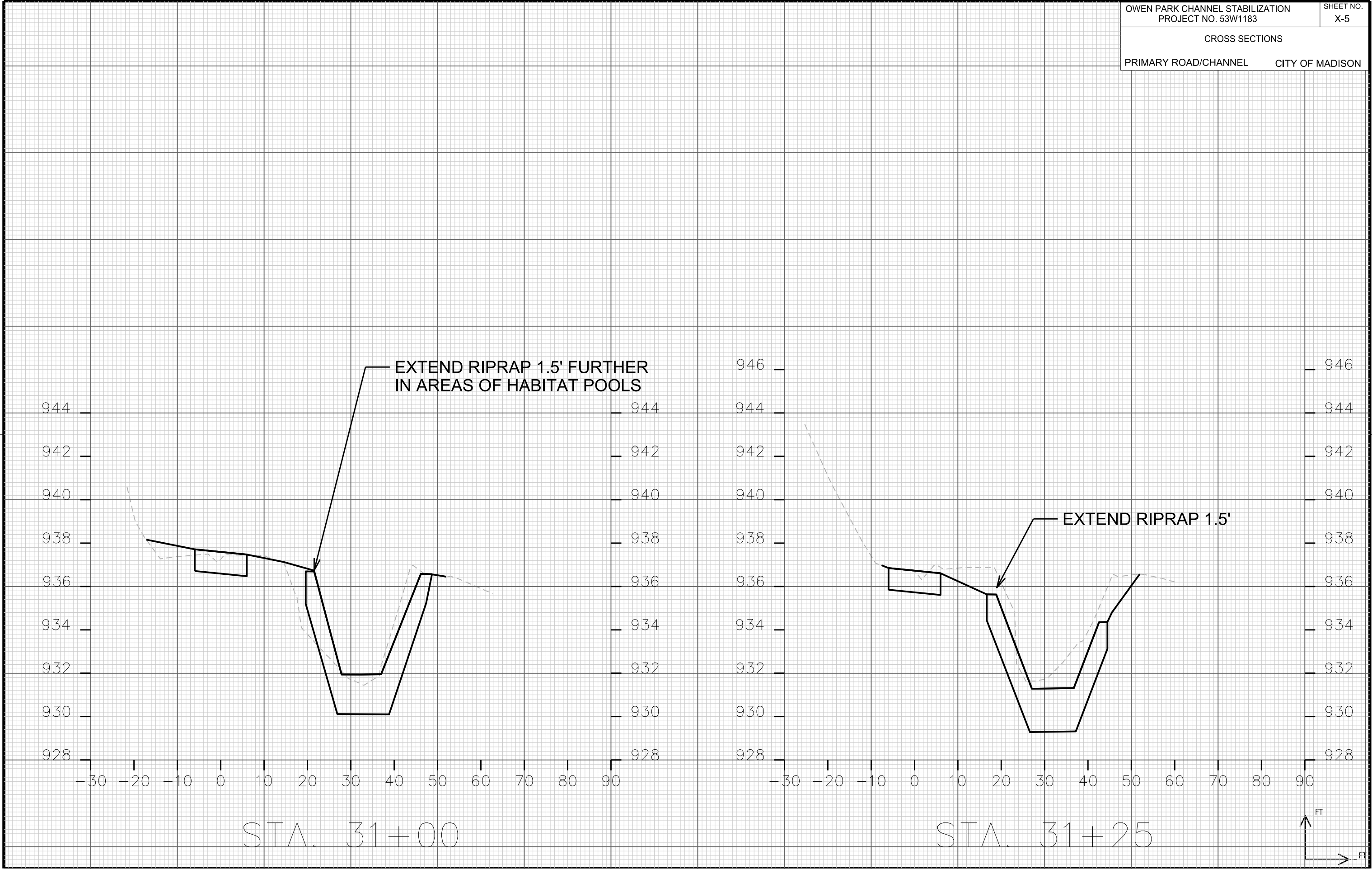
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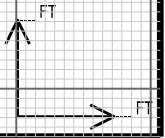
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STA. 31+00

STA. 31+25



PLOT SCALE: _____

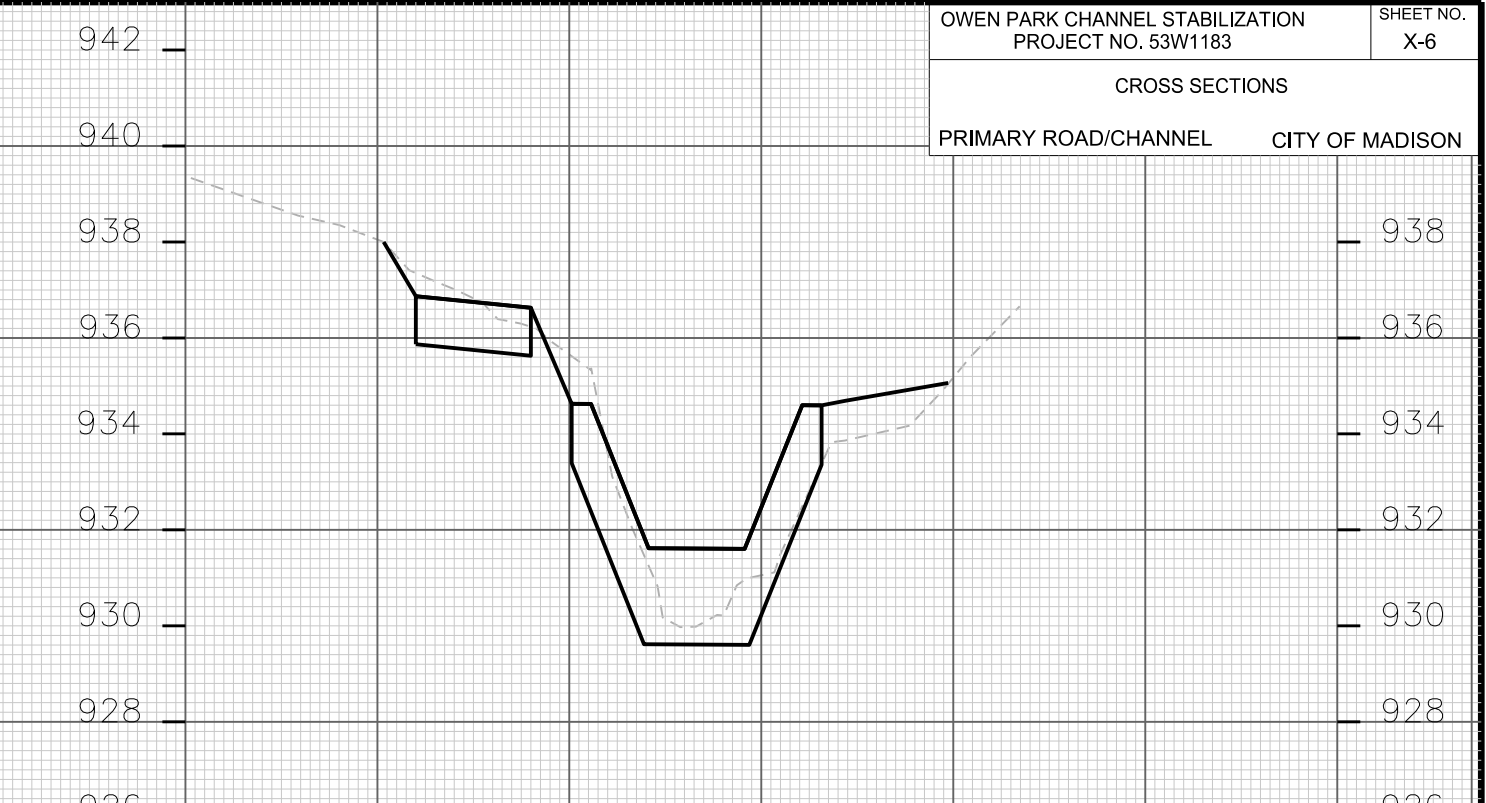
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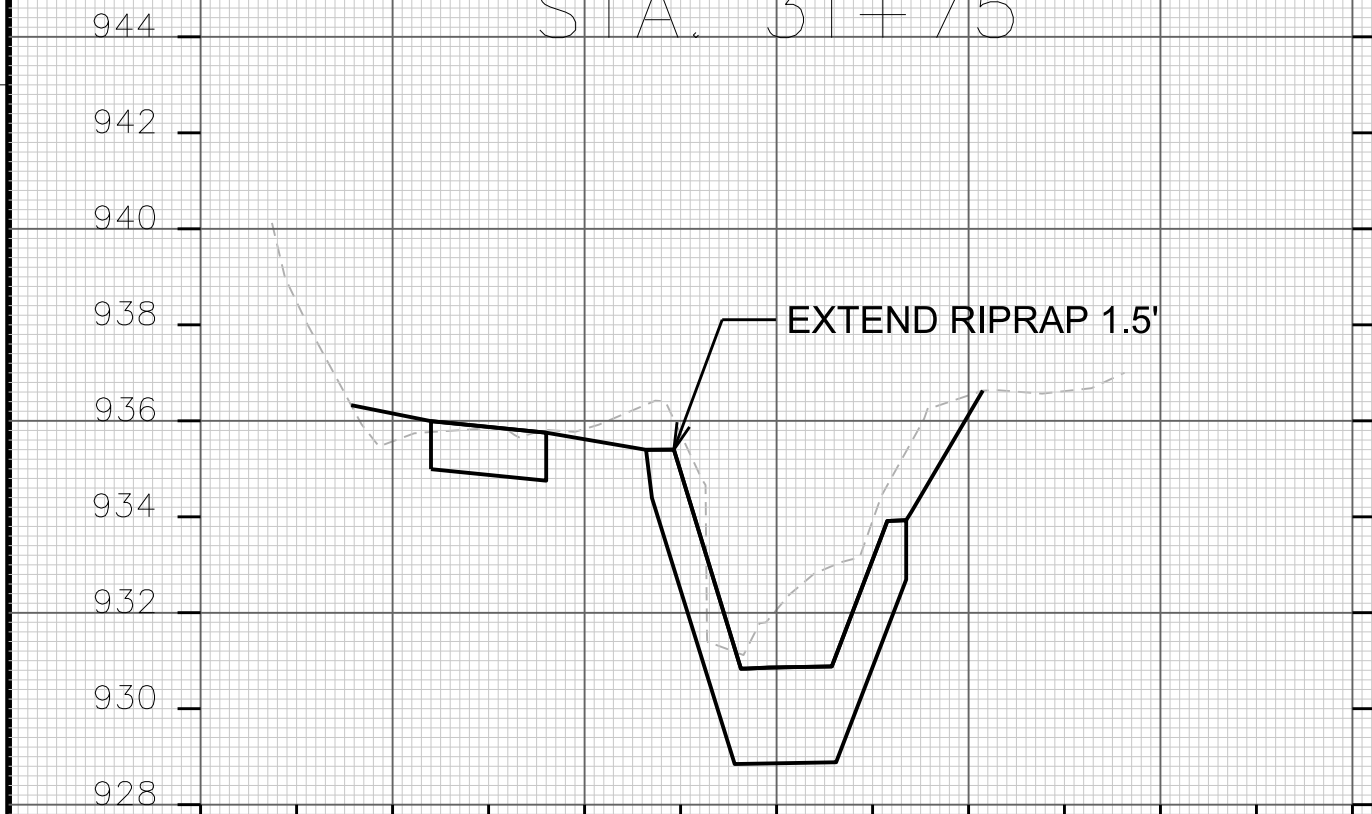
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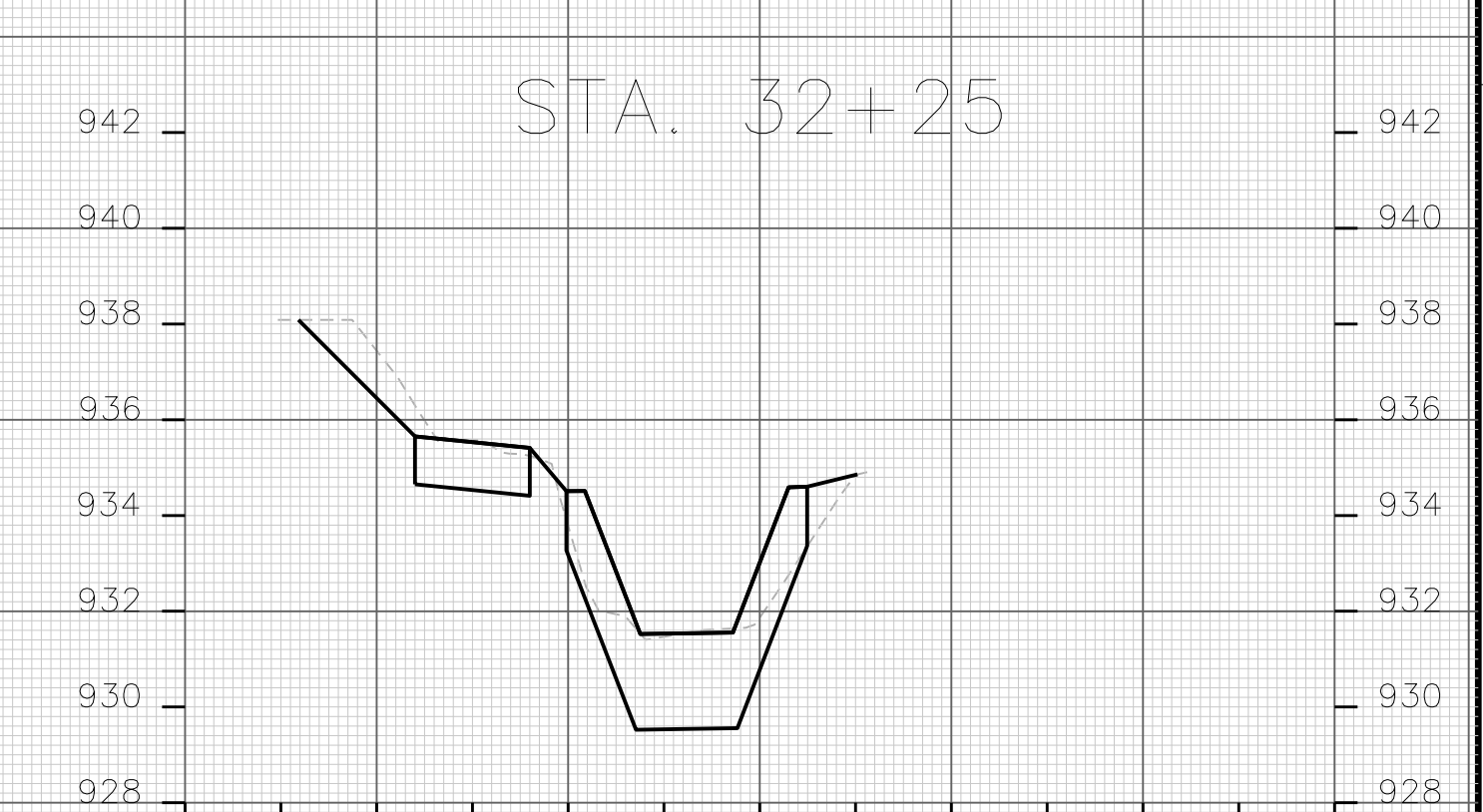
STA. 31+75



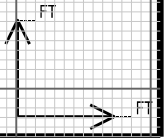
STA. 32+25



STA. 31+50



STA. 32+00



CROSS SECTIONS

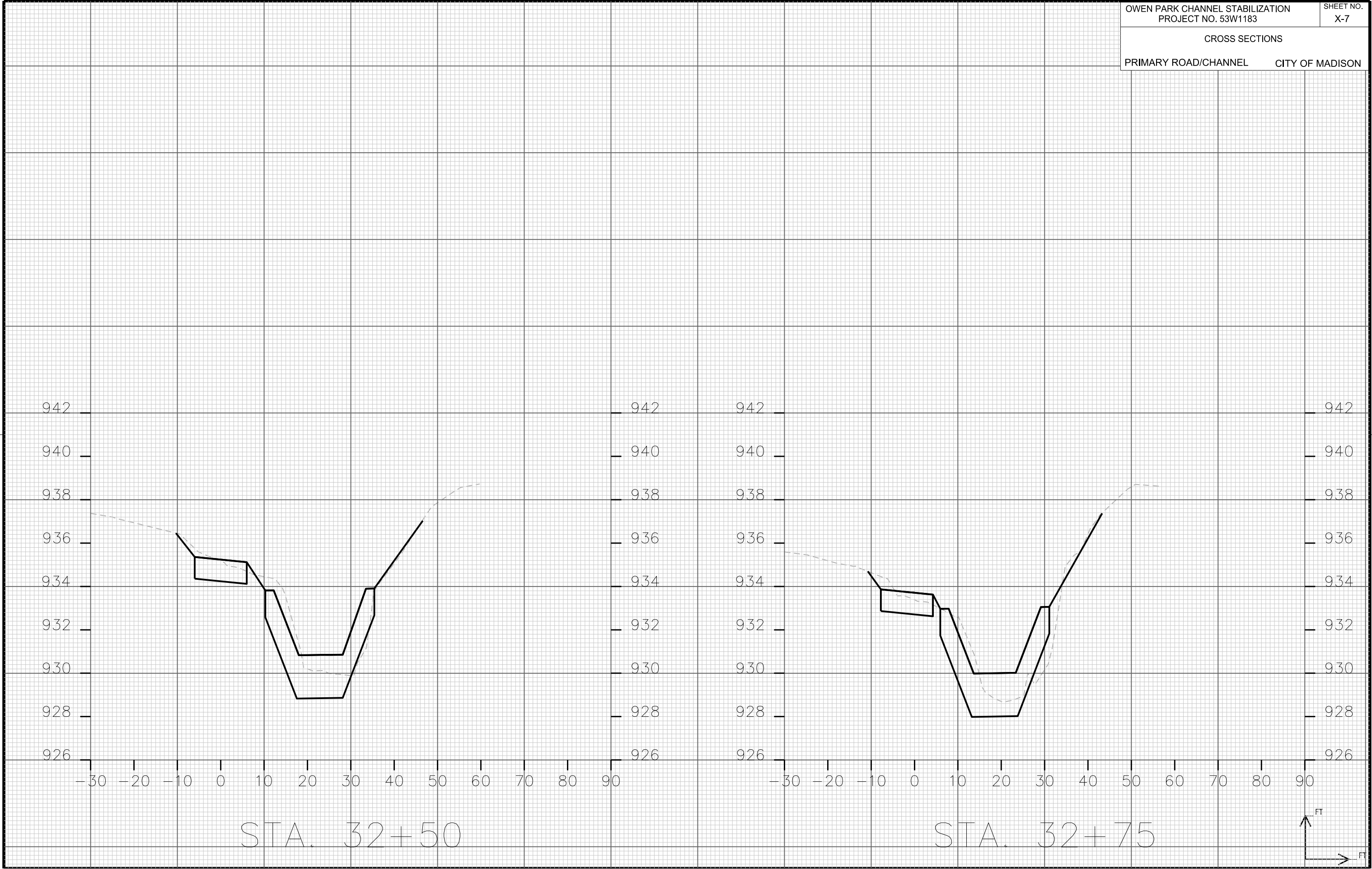
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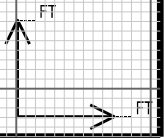
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CROSS SECTIONS

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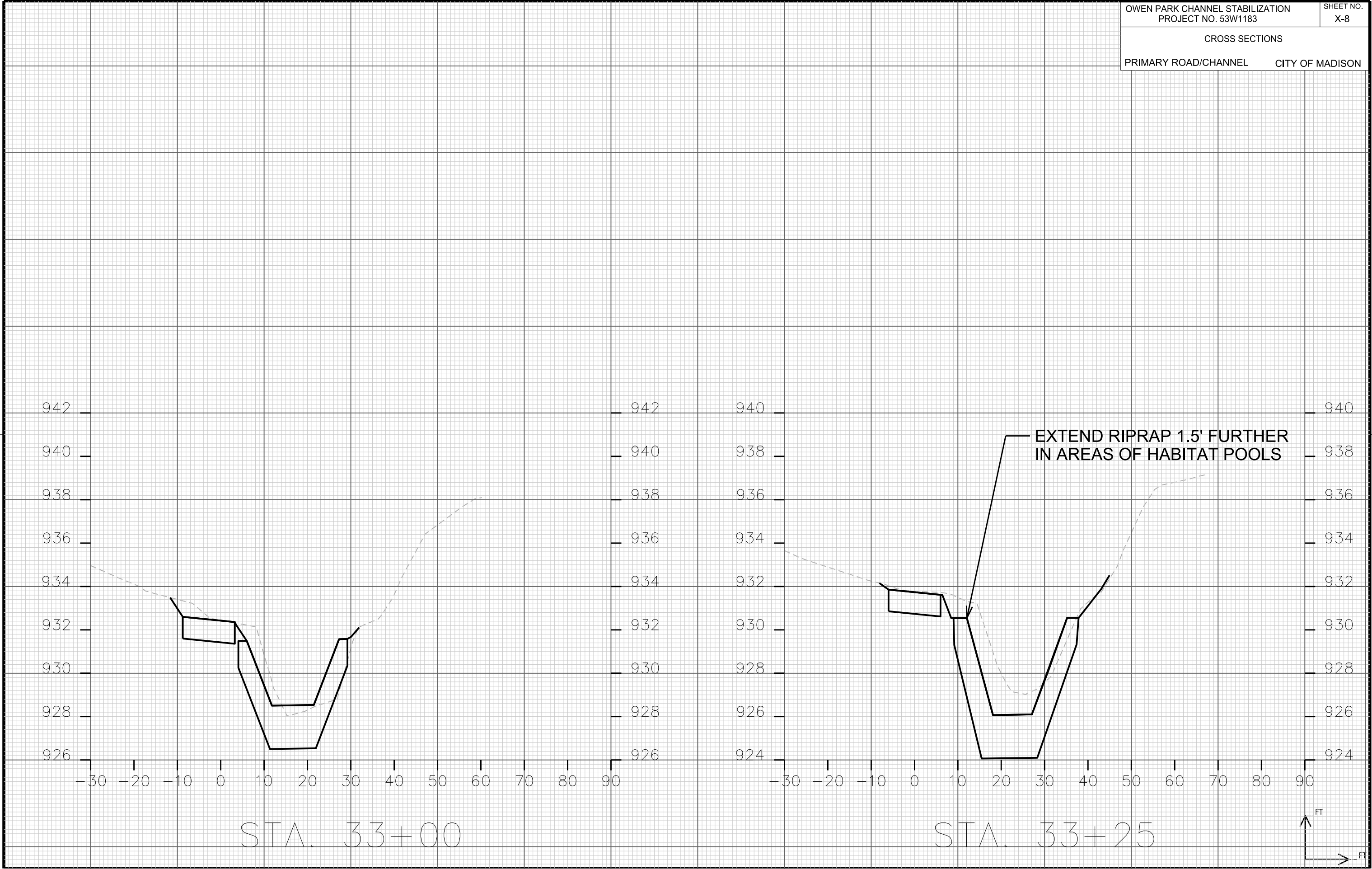
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STA. 33+00

STA. 33+25



CROSS SECTIONS

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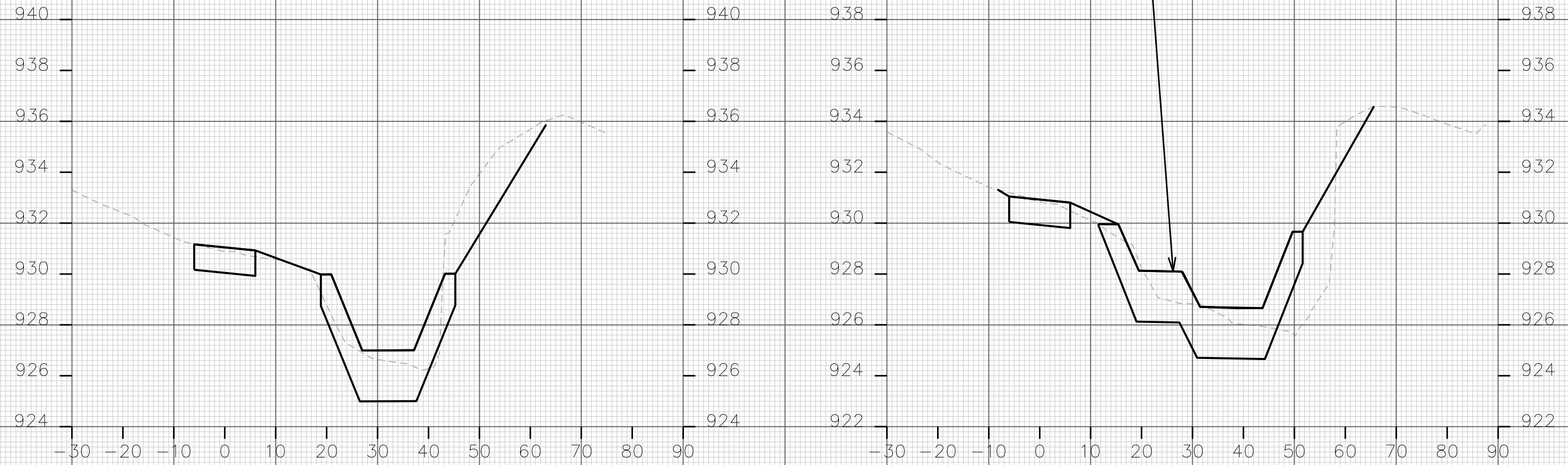
PLOT SCALE: _____

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**BENCH RIPRAP IN 1-1.5' LIFTS
3-4' WIDE**



STA. 33+50

STA. 33+75



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PRIMARY ROAD/CHANNEL

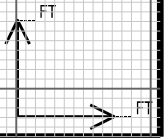
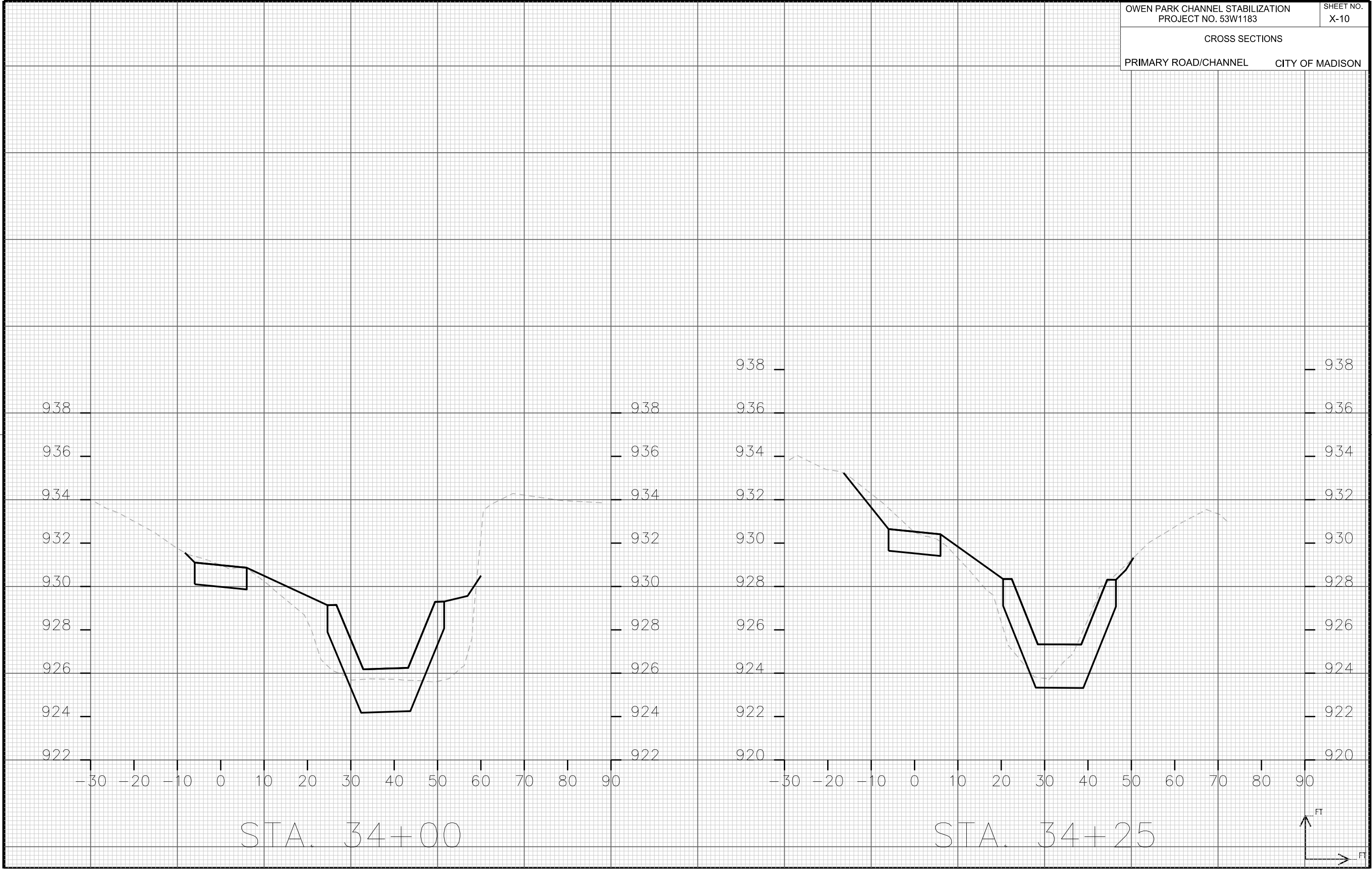
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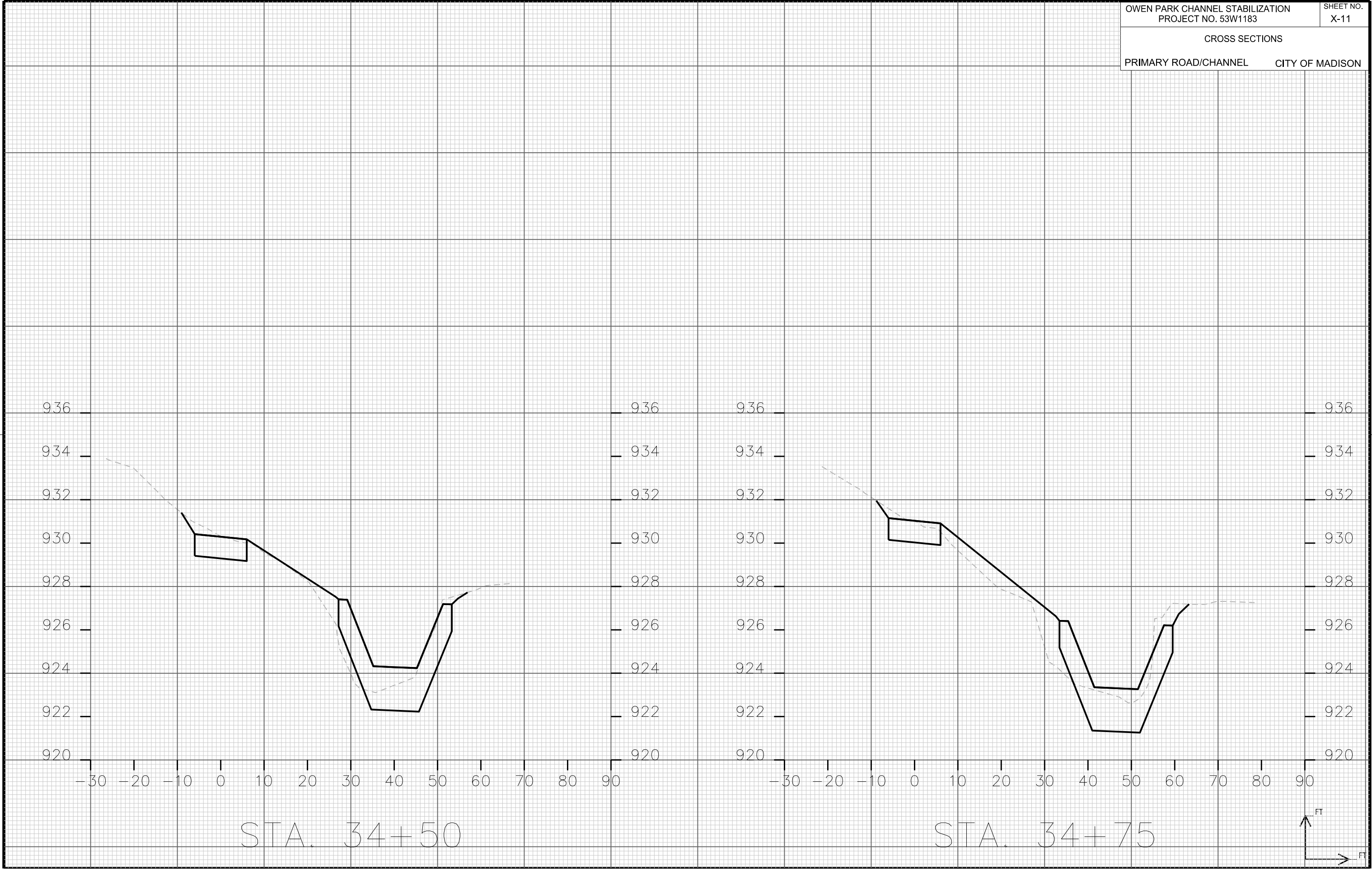
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STA. 34+50

STA. 34+75



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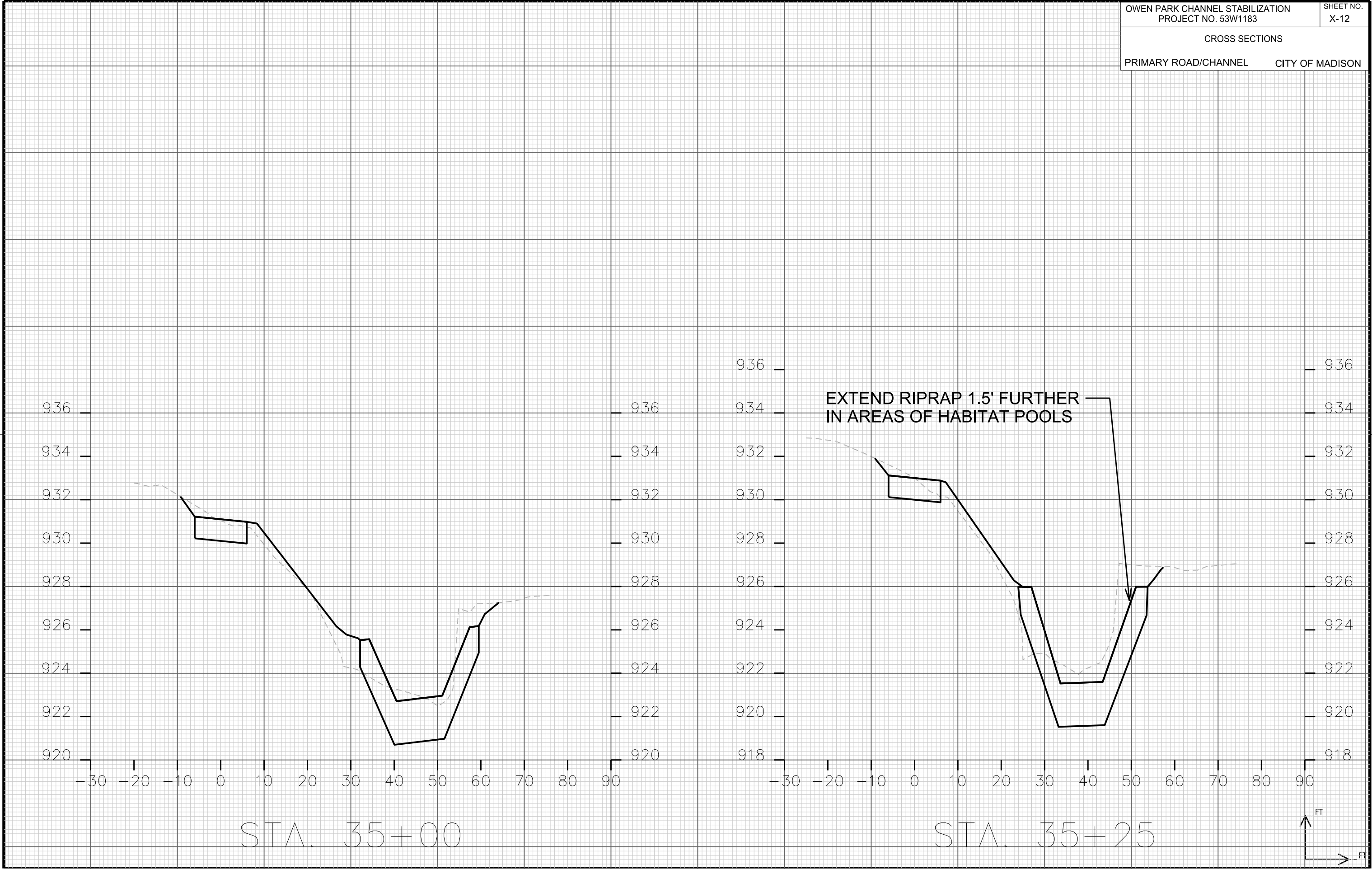
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

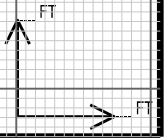
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 35+00

STA. 35+25



CROSS SECTIONS

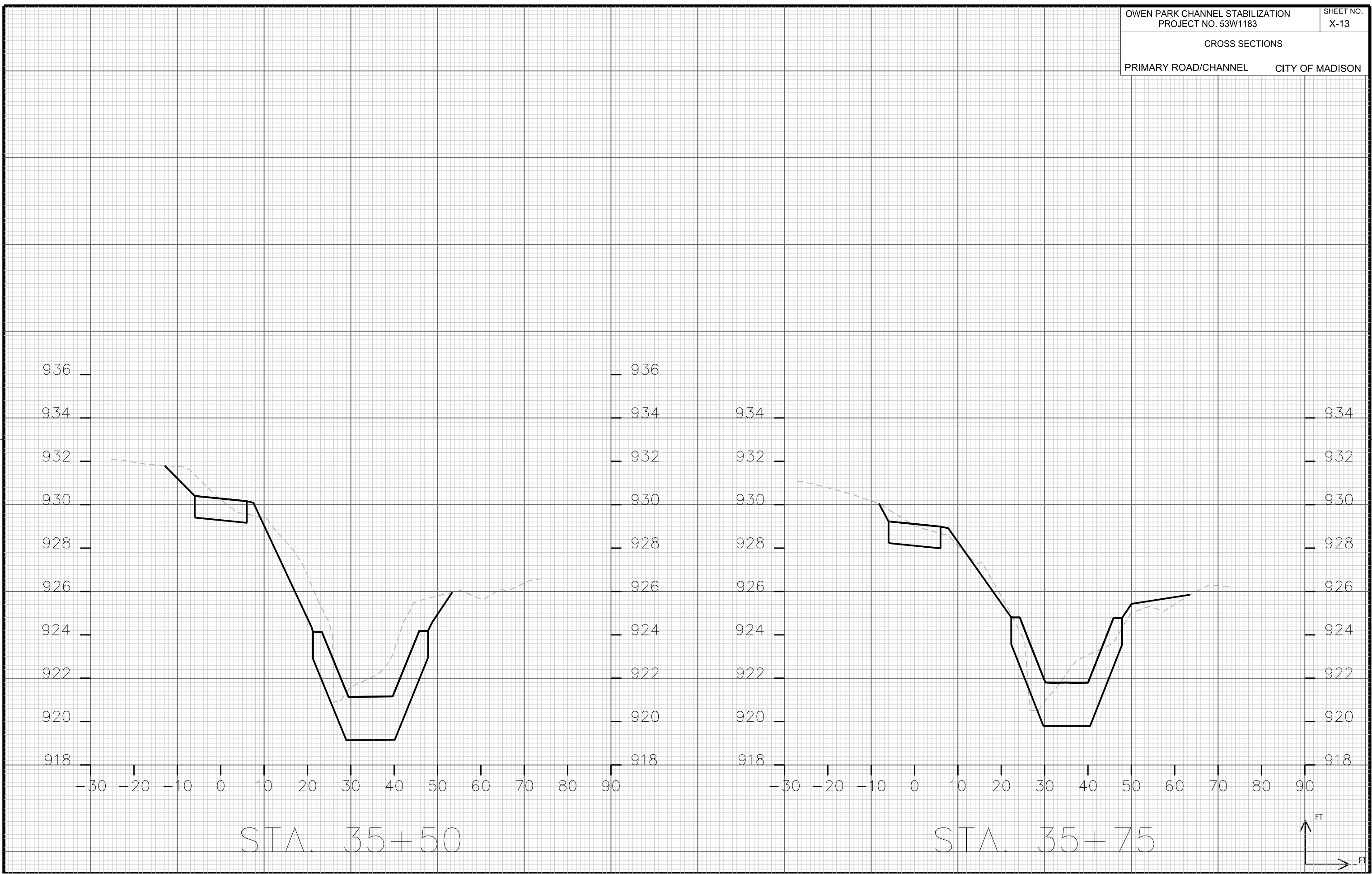
PRIMARY ROAD/CHANNEL CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 35+50

STA. 35+75



CROSS SECTIONS

PRIMARY ROAD/CHANNEL CITY OF MADISON

PLOT SCALE: _____

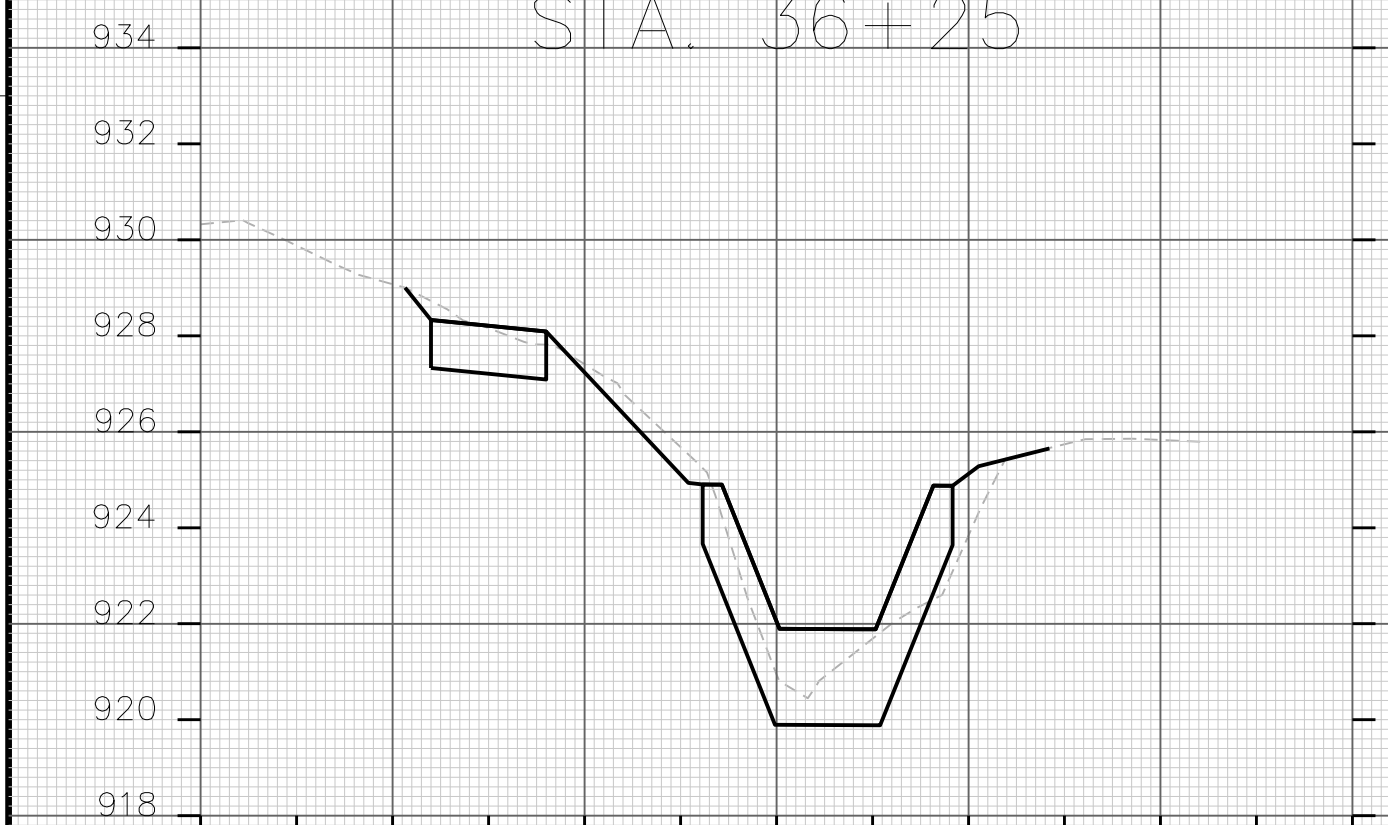
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



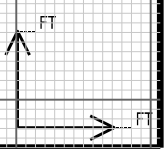
STA. 36+25



STA. 36+00

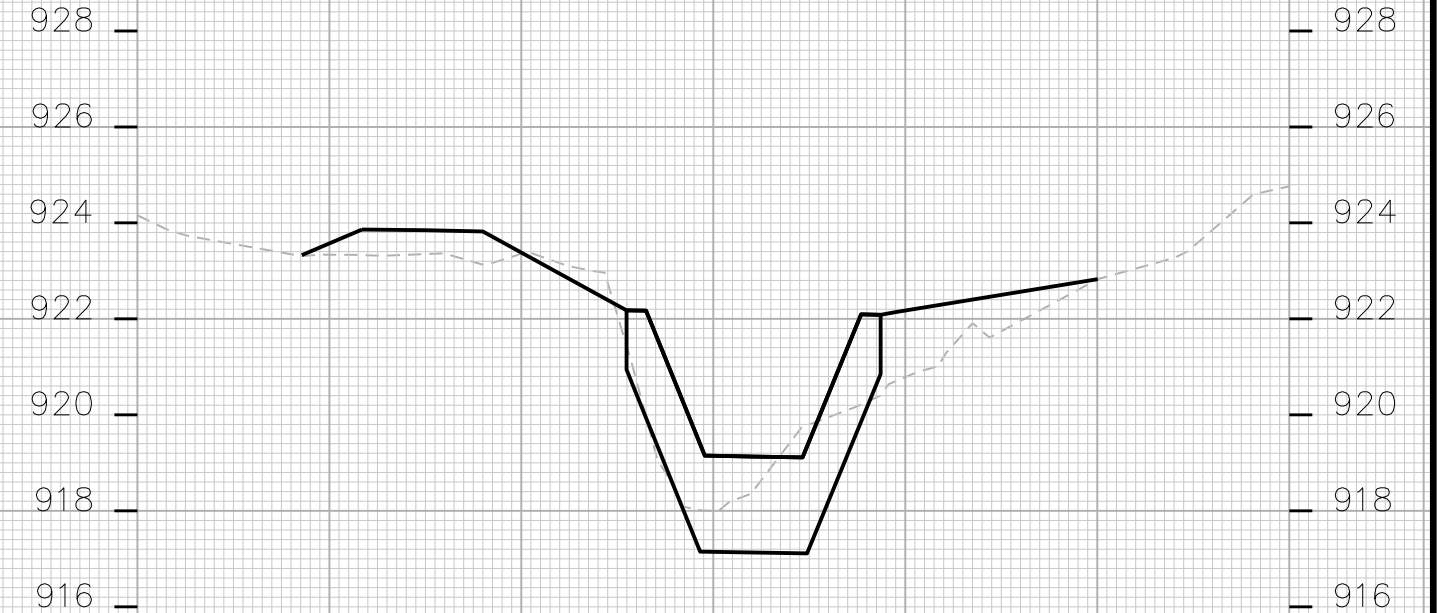


STA. 36+50





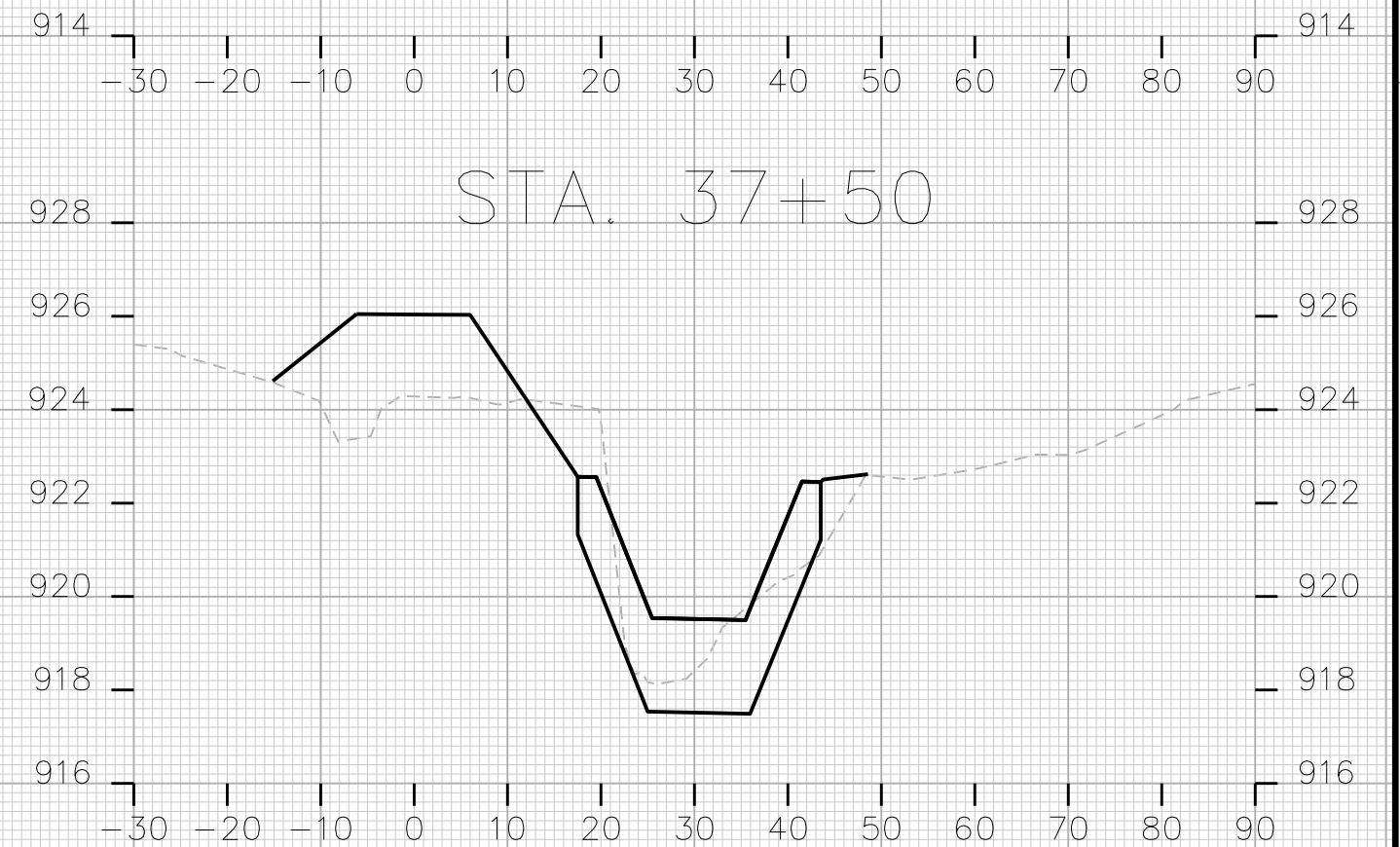
STA. 37+00



STA. 37+50



STA. 36+75



STA. 37+25



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

PRIMARY ROAD/CHANNEL CITY OF MADISON

PLOT SCALE: _____

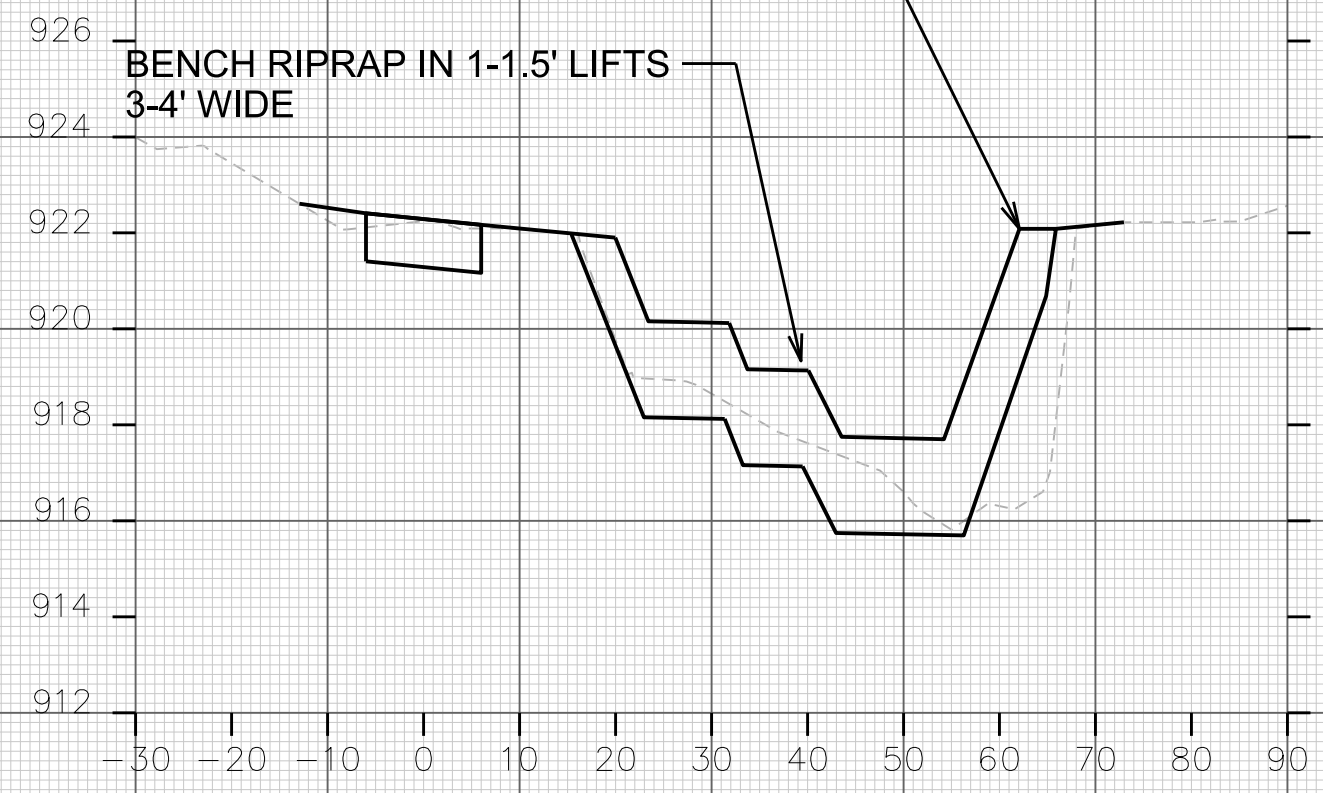
PLOT NAME: _____

REV. DATE: _____

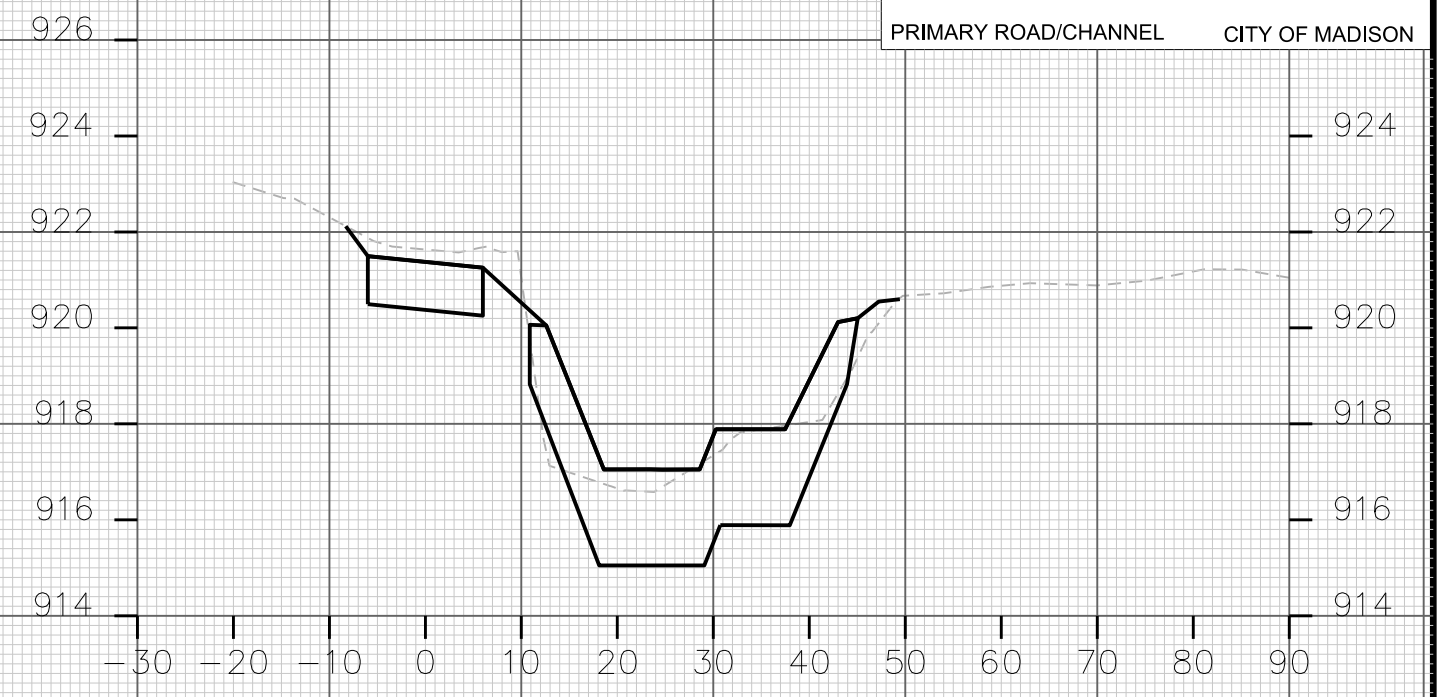
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

EXTEND RIPRAP 1.5' FURTHER
IN AREAS OF HABITAT POOLS

BENCH RIPRAP IN 1-1.5' LIFTS
3-4' WIDE



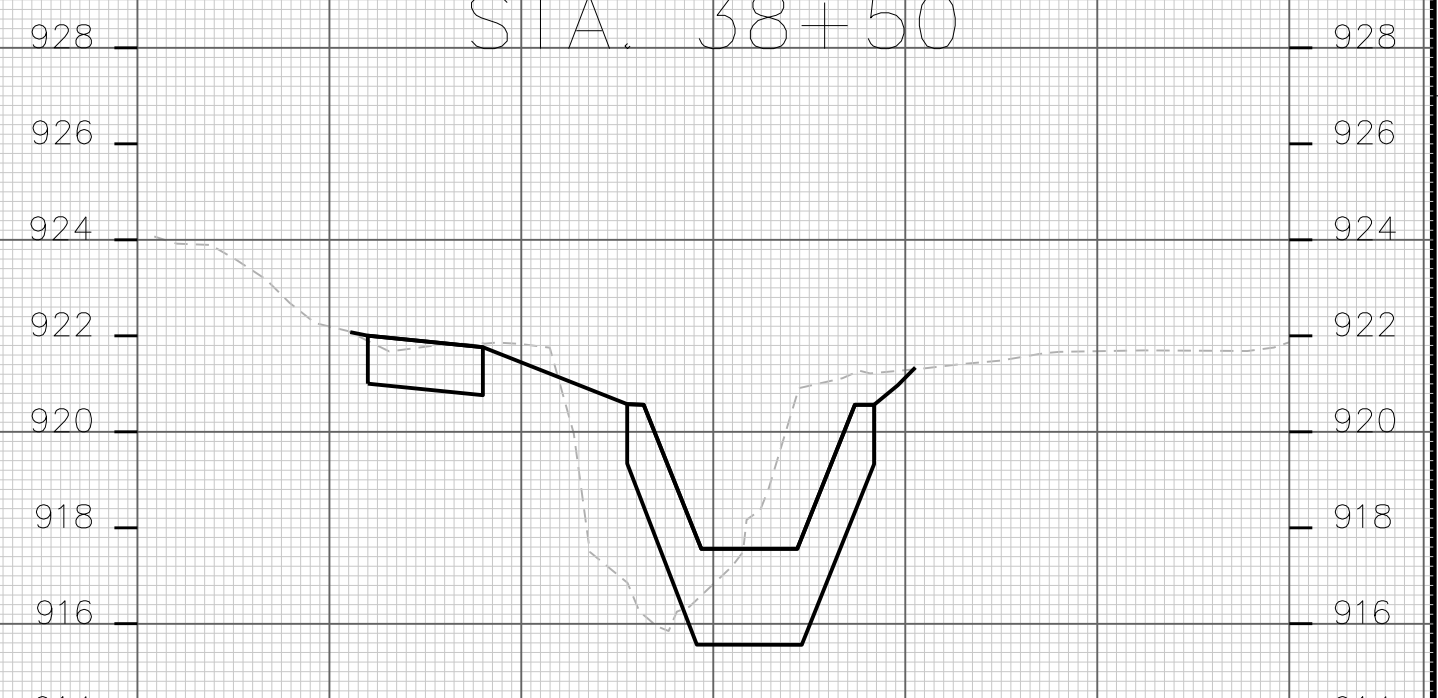
STA. 38+00



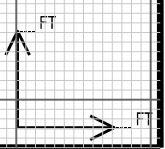
STA. 38+50



STA. 37+75



STA. 38+25



CROSS SECTIONS

PRIMARY ROAD/CHANNEL

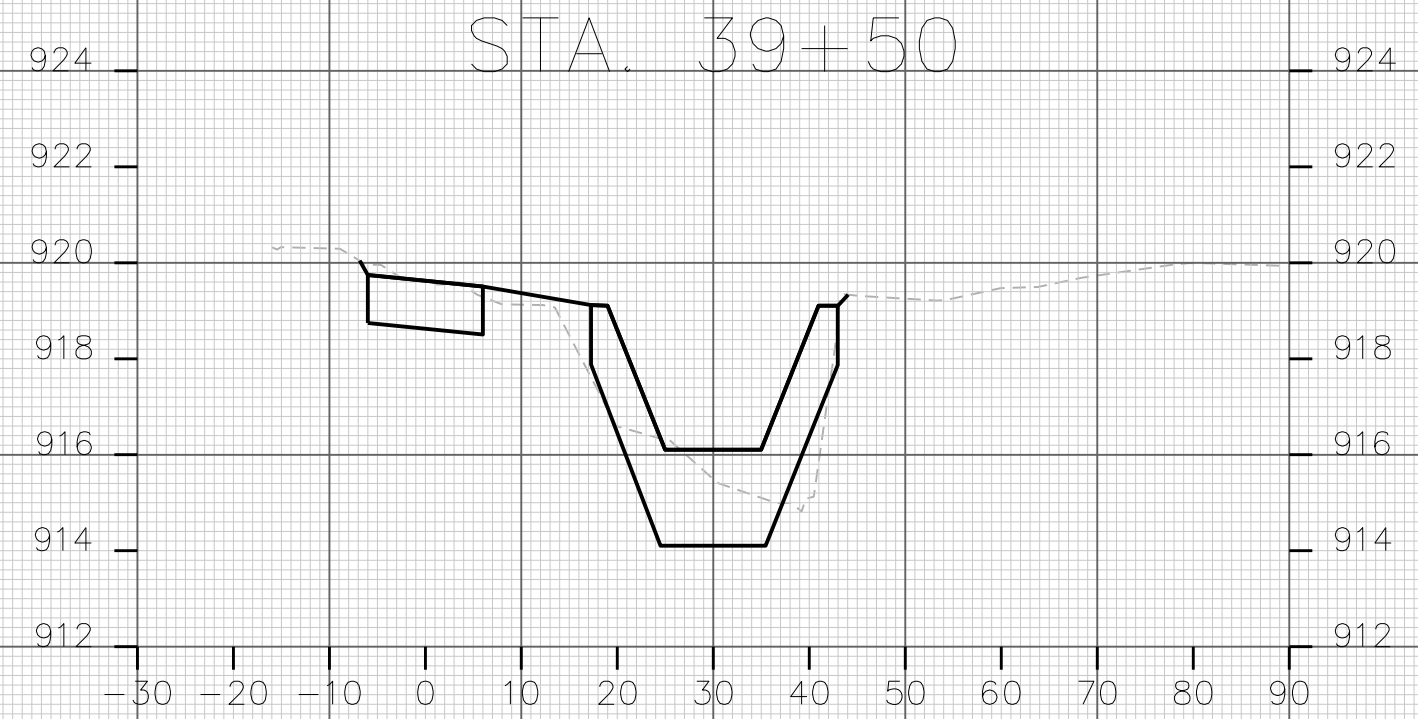
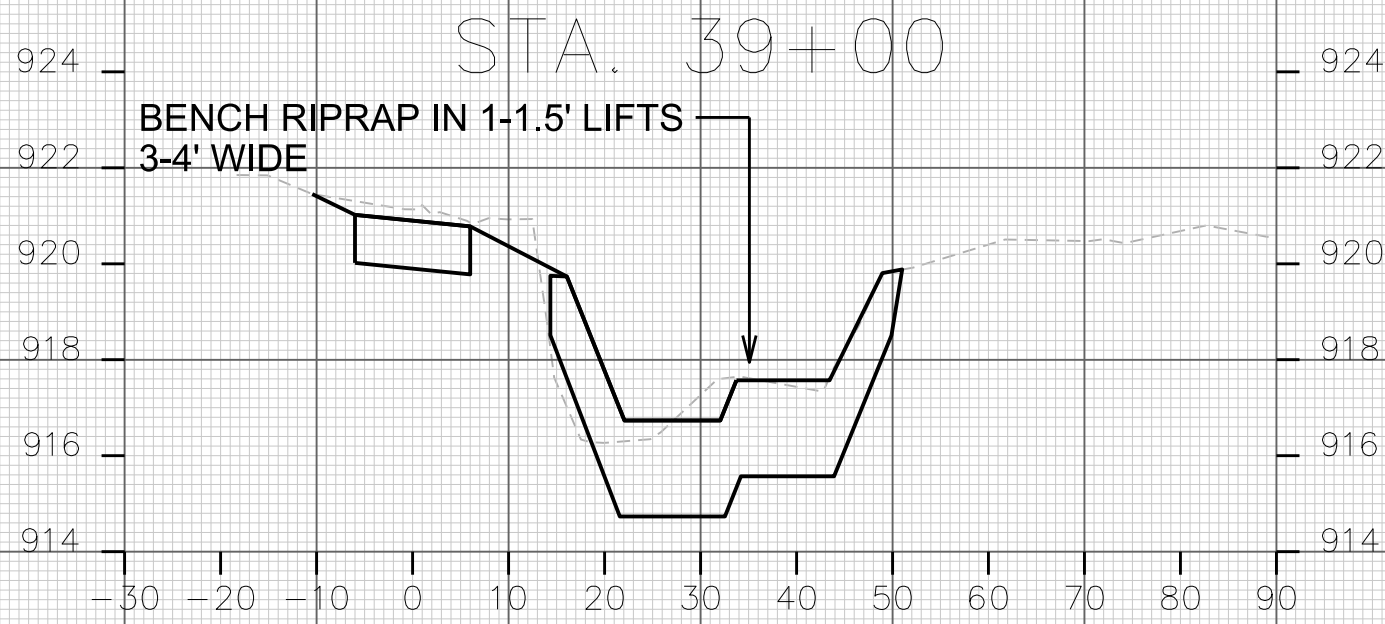
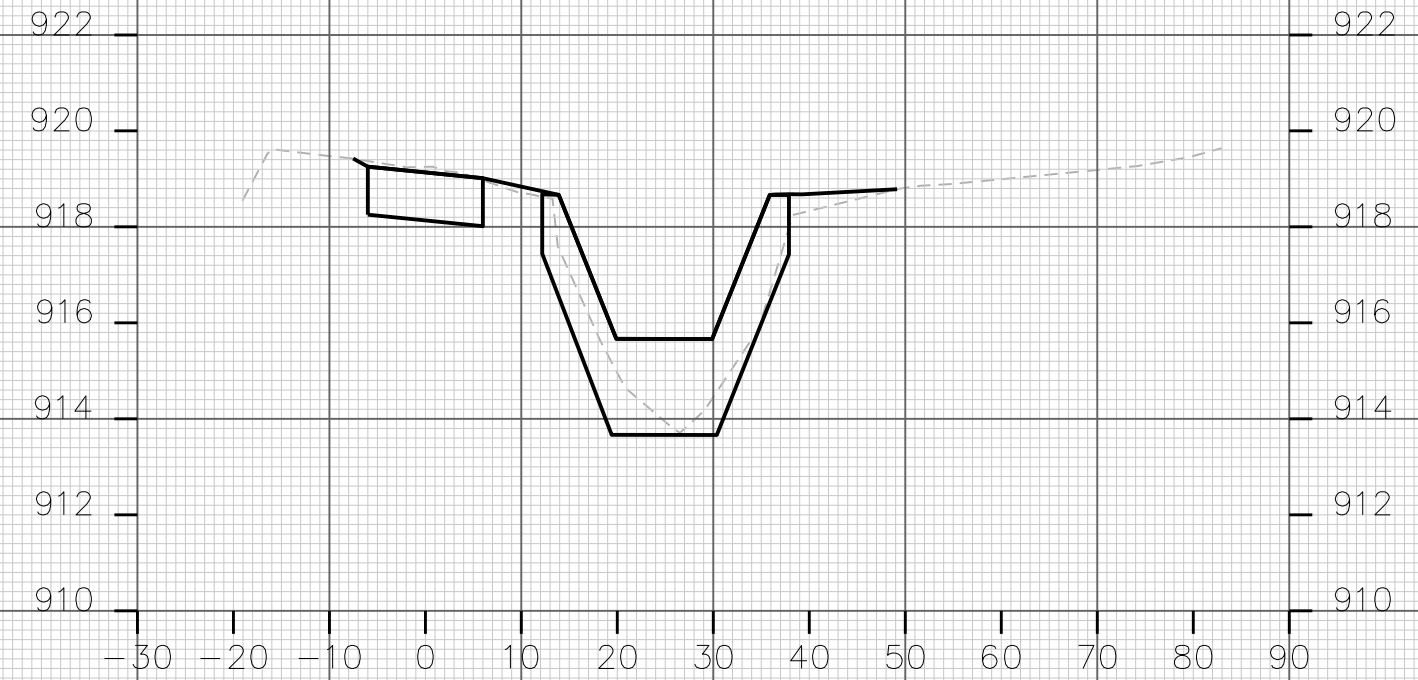
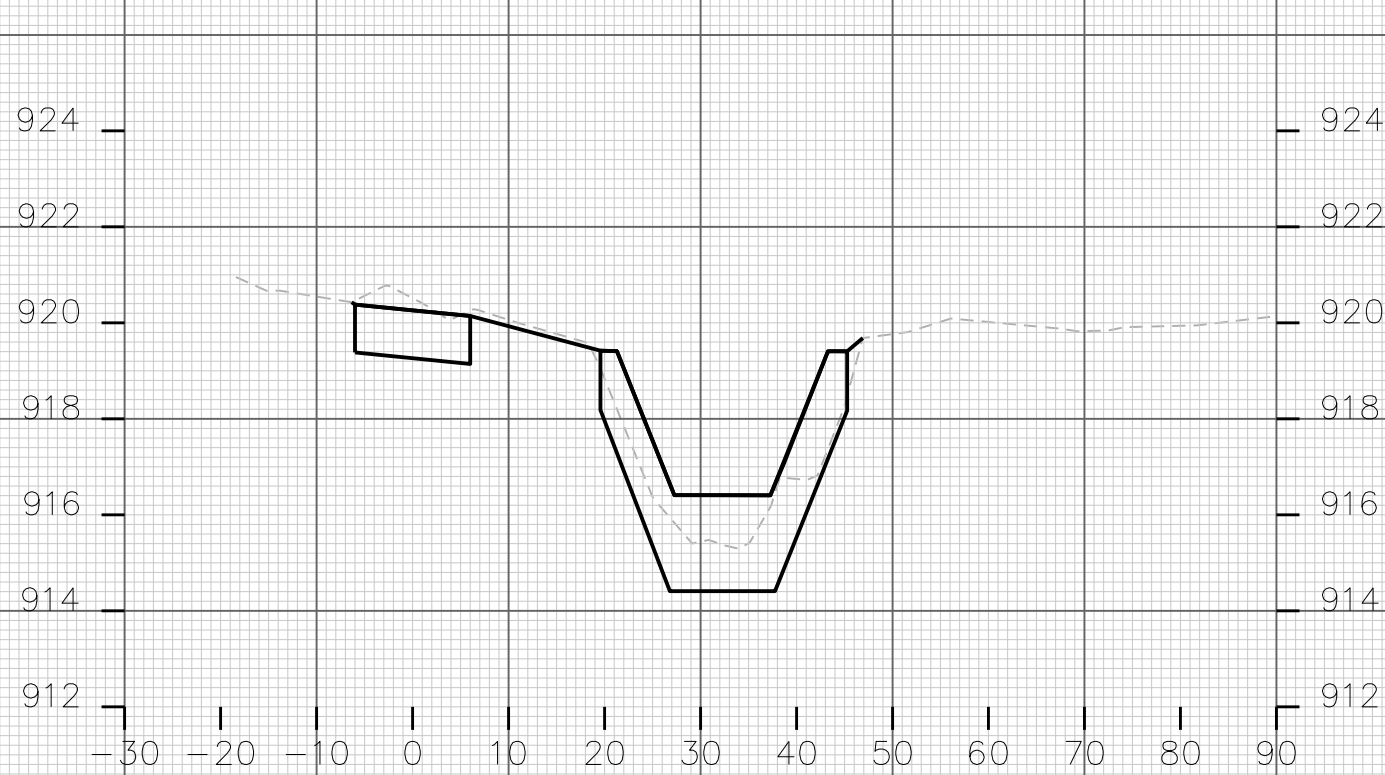
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS

PRIMARY ROAD/CHANNEL

CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

BENCH RIPRAP IN 1-1.5' LIFTS
3-4' WIDE

