#### PLAN SYMBOLS

STATE LINE	
COUNTY LINE	
TOWNSHIP OR RANGE LINE	
QUARTER LINE	
SIXTEENTH LINE	
PRESENT RIGHT-OF-WAY LINE	
CONTROL OF ACCESS LINE	
VACATED PLATTED PROPERTY	
CORPORATE OR CITY LIMITS	P.I.
TRUNK HIGHWAY CENTER LINE	P. of all
RETAINING WALL	
RAILROAD RIGHTOF-WAY LINE	-
RIVER OR CREEK	NAME
DRY RUN	SIZE
DRAINAGE DITCH	DT
CULVERT	= = = =
GUARD RAIL	-P-0P-
BARBED WIRE FENCE	X
CHAIN LINK FENCE	X
RAILROAD SNOW FENCE	080000000000000000000000000000000000000
STONE WALL OR FENCE	
RAILROAD CROSSING SIGN	<b>Ť</b>
RAILROAD CROSSING BELL	
CROSSING GATE	
MEANDER CORNER	'
SPRINGS	
MARSH	. /
TIMBER ORCHARD	www
BRUSH ( C	(TIMBER) (
NURSERY	$\omega \sim \sim$
CATCH BASIN , , , .	
FIRE HYDRANT	3
GATE VALVE	6
SANITARY SEWER MANHOLE	
STORM SEWER MANHOLE	(
OVERPASS (Highway Over)	<del>/</del>
	TX
UNDERPASS (Highway Under)	
BRIDGE	
BRIDGE	[-S-F]
BRIDGE	
BRIDGE	
BRIDGE	· · · · · · · · · · · · · · · · · · ·
BRIDGE	
BRIDGE	
BRIDGE .  BUILDING (One Story Frame) . F-FRAME C-CONCRETE S-STONE T-TILE B-BRICK ST-STUCCO IRON PIPE OR ROD . MONUMENT (STONE, CONCRETE, OR M WOODEN HUB . GRAVEL PIT ROCK QUARRY .	
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THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL QUALITY D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE

38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF

EXISTING SUBSURFACE UTILITY DATA."

# CITY OF PLYMOUTH

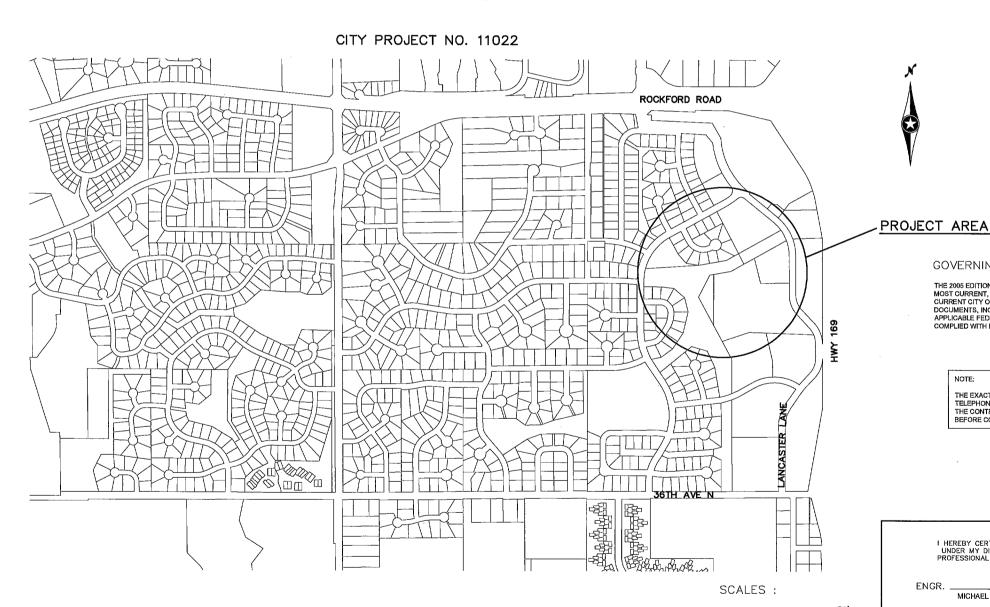
HENNEPIN COUNTY, MINNESOTA

**CONSTRUCTION PLANS FOR:** 

UTILITY IMPROVEMENTS

# DRAFT

# FOUR SEASONS MALL WATER QUALITY IMPROVEMENT



Item 5A - online information only BCWMC 8-15-13 INDEX:

# SHEET NO. DESCRIPTION

1	TITLE SHEET						
2	GENERAL LAYOUTS AND NOTES						
3	STRUCTURE SCHEDULES						
4	IRON ENHANCED SAND FILTER DETAIL						
5-7	DETAILS						
8	TREE REMOVALS						
9	POND GRADING						
10	PLAN & PROFILE - LEFT CHANNEL						
11	PLAN & PROFILE - CENTER CHANNEL						
12-14	PLAN & PROFILE - RIGHT CHANNEL						
15	PLAN & PROFILE WETLAND STORM SEWER						
16-18	RESTORATION						
	CROSS SECTIONS						
19	LEFT CHANNEL						
20-21	CENTER CHANNEL						
22-26	RIGHT CHANNEL						

THIS PLAN SET CONTAINS 26 SHEETS

GOVERNING SPECIFICATIONS:

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION THE MOST CURRENT, "STANDARD SPECIFICATIONS FOR CONSTRUCTION" THE MOST CURRENT CITY OF PLYMOUTH, "ENGINEERING GUIDELINES", AND THE CONTRACT DOCUMENTS, INCLUDING THE SPECIAL PROVISIONS, SHALL GOVERN, ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

THE EXACT LOCATION OF UNDERGROUND UTILITIES SUCH AS GAS, TELEPHONE, WATER, ETC. ARE UNKNOWN.
THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITIES BEFORE COMMENCING EXCAVATION.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ENGR. \_

(PLAN) \_\_\_\_\_30'\_\_\_\_

VERT. \_\_\_\_5'

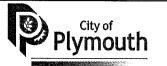
PROFILE \_\_\_\_\_ HORIZ. \_\_\_\_50'

X-SECTIONS \_ HORIZ. \_ \_\_\_10'\_\_\_\_

(X PROFILE) \_\_\_\_\_HORIZ. \_\_\_\_30'

MICHAEL J. PAYNE, P.E., DESIGN MANAGER

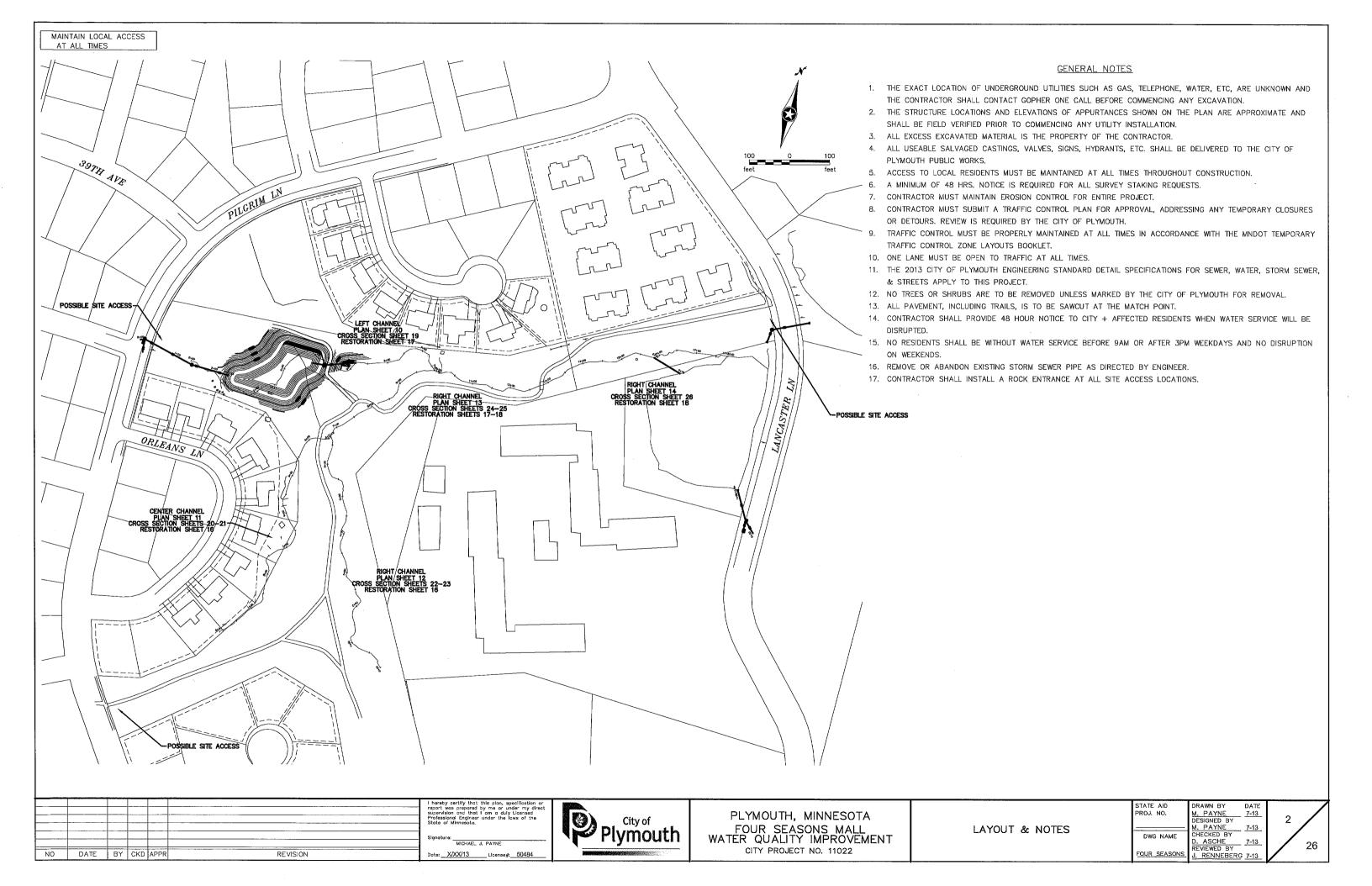
Reg. No.\_ \_ Date\_



STATE AID PROJ. NO.	

11022

GOPHER STATE ONE CALL: (651) 454-0002



	EXISTING STRUCTURE SCHEDULE								
STRUCT.		LOCATION	ADJUST	REMOVE &	REMOVE	GROUT	GROUT INV.		
NO.	TYPE	STREET	(EACH)	REPLACE RINGS	(EACH)	DOGHOUSE	(EACH)	REMARKS:	
1	STORM MH	PILGRIM LN		Х				BULKHEAD EX. N. 42" RCP	
2	CATCH BASIN	PILGRIM LN			Х				
3	CATCH BASIN	PILGRIM LN						BULKHEAD EX. 12" CMP	
4	CATCH BASIN	PILGRIM LN						NO WORK NEEDED	
5	STORM MH	39TH AVE						NO WORK NEEDED	
6	CATCH BASIN	39TH AVE						NO WORK NEEDED	
7	STORM MH	39TH AVE						NO WORK NEEDED	
8	CATCH BASIN	39TH AVE						NO WORK NEEDED	
9	CATCH BASIN	PILGRIM LN						NO WORK NEEDED	
10	SANITARY MH	PILGRIM LN						NO WORK NEEDED	
- 11	STORM MH	LANCASTER LN			Х				
12	CATCH BASIN	LANCASTER LN					,	NO WORK NEEDED	
13	STORM MH	LANCASTER LN						NO WORK NEEDED	
14	CATCH BASIN	LANCASTER LN						NO WORK NEEDED	
15	STORM MH	LANCASTER LN						ABANDON MH	
16	SANITARY MH	LANCASTER LN						NO WORK NEEDED	
17	SANITARY MH	LANCASTER LN			, i			NO WORK NEEDED	
18	STORM MH	LANCASTER LN						ABANDON MH	
19	SANITARY MH	LANCASTER LN						NO WORK NEEDED	
20	STORM MH	LANCASTER I.N						BULKHEAD EX. N 30" RCP	
21	CATCH BASIN	LANCASTER LN						NO WORK NEEDED	
22	SANITARY MH	LANCASTER LN						NO WORK NEEDED	
23	CATCH BASIN	LANCASTER LN			X				

					PROPOSE	D STORM	SEWER STRU	CTURE SCH	DULE	
STRUCT.		LOCATIO	<u>N</u>	DI	SIGN		CASTING	TOP OF		
NO.	STREET	STATION	R/L	MH	СВ	DEPTH	TYPE	CASTING	INVERT	NOTES:
APR 1	PILGRIM LN	2+37.63		APRON	ST-3	N/A	N/A	N/A	923.50	
STMH 2	PILGRIM LN	1+43.07		ST-6 (72")		6.30	R-1642	930.75	924.45	
CB3	PILGRIM LN	0+11.49			ST-6 (72")	6,98	R-3067	932.75	925.77	
CB 4	PILGRIM LN		R		ST-2	2.94	R-3067	932.75	929.81	
APR 5	POND			APRON	ST-3	N/A	N/A	N/A	914.88	74400
STMH 6	POND				ST-15 (108")	7,26	GRATE	922.50	915.24	WEIR ELEV = 921.00
APR 7	LANCASTER LN	1+14.84		APRON	\$T-3	N/A	N/A	N/A	891.43	
CB8	LANCASTER LN	0+35,60			ST-6 (72")	7,14	R-3067	898.96	891.82	
CB9	LANCASTER LN		L		ST-2	3.50	R-3067	899.16	895.66	
APR 10	LANCASTER LN		R	APRON	ST-3	N/A	N/A	N/A	888.22	
STMH 11	LANCASTER LN		L		ST-6 (72")	5.84	R-4342	895.00	889.17	
APR 12	LANCASTER LN		L	APRON	ST-3	N/A	N/A	N/A	889.50	

	CROSS VANE LOCATIONS						
NO.	CHANNEL	STATION	NOTES				
1.	LEFT	7+00					
2	CENTER	1+02.31					
3	CENTER	2+12.31					
4	CENTER	2+88.98					
5	CENTER	3+65.65					
6	CENTER	4+61.25					
7	CENTER	4+96.25					
8	CENTER	5+31.25					
9	RIGHT	0+54.93					
10	RIGHT	1+91.51					
11	RIGHT	3+40					
12	RIGHT	4+50					
13	RIGHT	4+93.33					
14	RIGHT	5+36.67					
15	RIGHT	5+80					
16	RIGHT	6+23.33					
17	RIGHT	8+67.97					
18	RIGHT	9+52.93					
19	RIGHT	12+50					
20	PROPOSED	0+25					

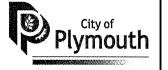
ESTIMATED GRADING QUANTITIES						
ITEM	CUT (CY)	FILL (CY)	NET CUT (CY)			
RIGHT CHANNEL	1,452	122	1,330			
PROPOSED CHANNEL	31	0	31			
CENTER CHANNEL	384	18	366			
LEFT CHANNEL	82	14	68			
POND	7,524	304	7,220			

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		<u> </u>			
		<b>—</b>			
		<u> </u>			
REVISION	APPR	CKD	BY	DATE	NO

I hereby certify that this plan, specification or report was prepared by me or under my direc supervision and that I am a duly Licensed Prafessional Engineer under the laws of the State of Minnesota.

michael J. Payne

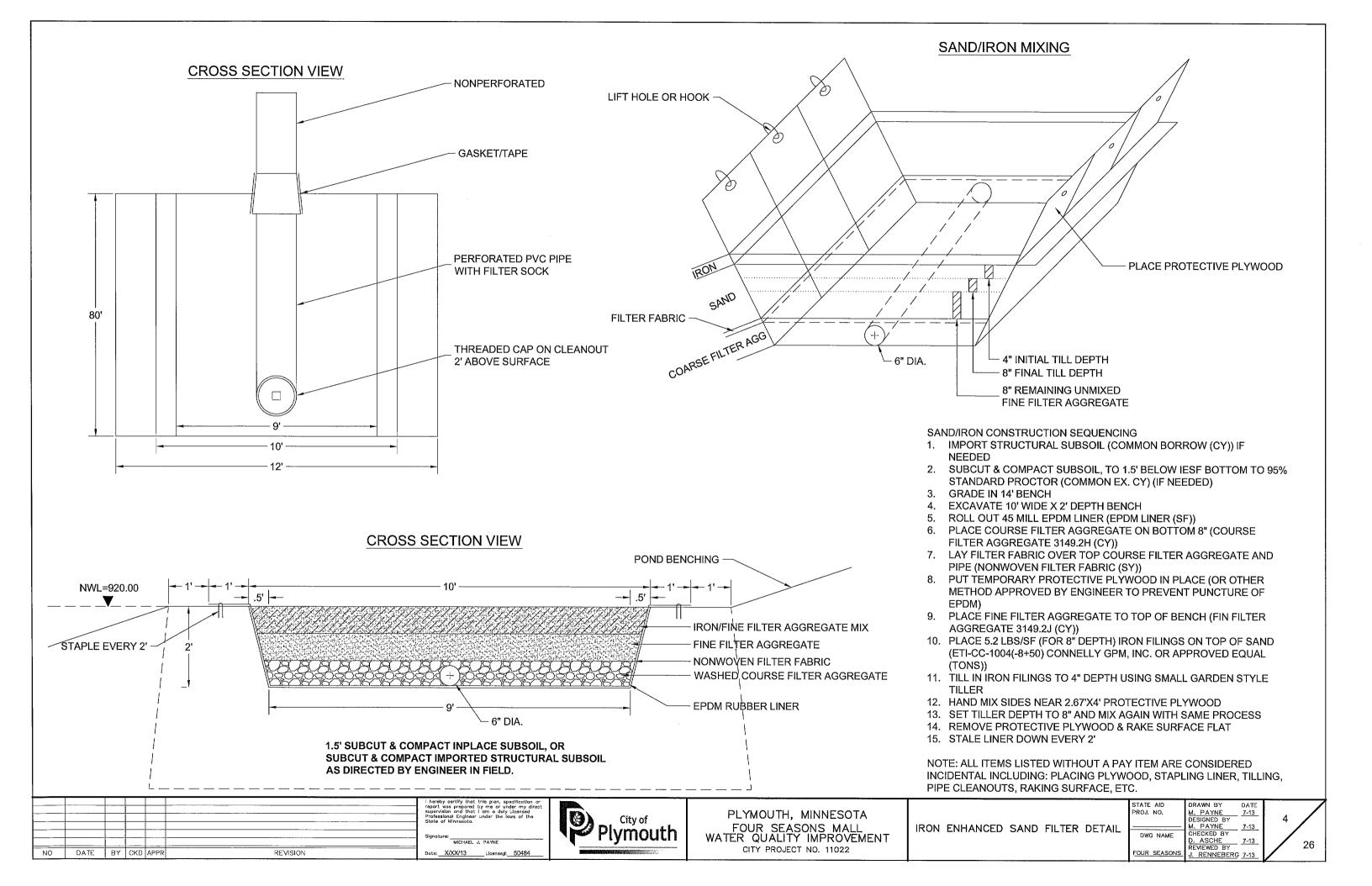
Date: X/XX/13 License#: 50484

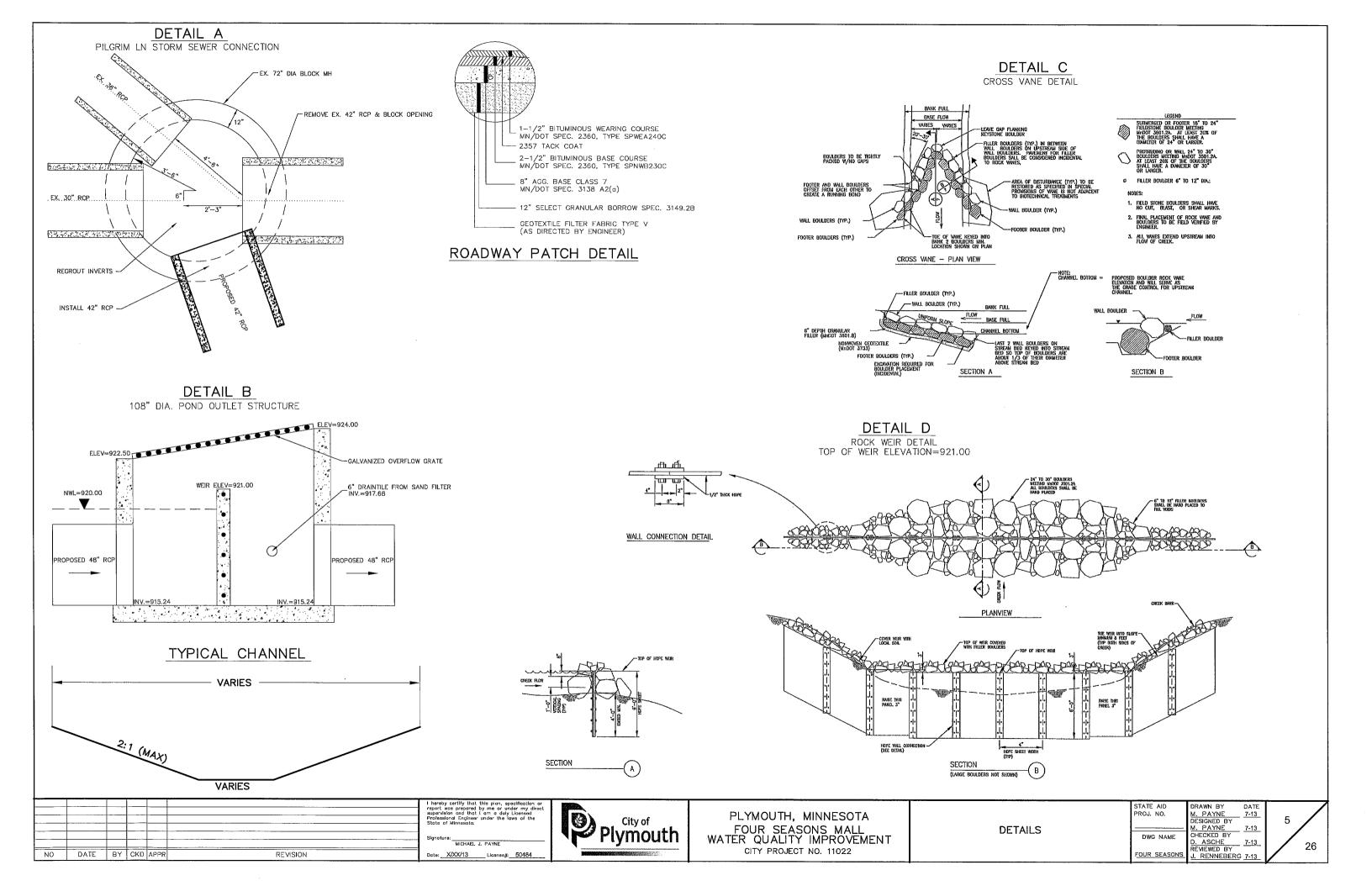


PLYMOUTH, MINNESOTA FOUR SEASONS MALL WATER QUALITY IMPROVEMENT CITY PROJECT NO. 11022

STRUCTURE SCHEDULES

STATE AID	DRAWN BY	DATE
PROJ. NO.	M. PAYNE	7-13
	DESIGNED BY	
	M. PAYNE	7-13
DWG NAME	CHECKED BY	
	D. ASCHE	7-13
FOUR SEASONS	REVIEWED BY J. RENNEBERG	7-13





## CITY OF PLYMOUTH[6"]

IMPROVEMENT PROJECT: (PROJECT NAME) [2-1/2"] (PROJECT NO.)

## PROCEED WITH CAUTION [6"]

FOR INFORMATION CALL: [2-1/2"] PROJECT HOTLINE NO. (763) 509-55XX [WHERE APPLICABLE] PROJECT WEBSITE WWW.PLYMOUTH.MN.US [WHERE APPLICABLE]

CITY ENGINEERING DIVISION: (NAME OF CONSULTING ENGINEER) (NAME OF PROJECT MANAGER) [2-1/2"] (CITY REPRESENTATIVE) PHONE NO. (763) 509-5500

(CONTRACTOR'S NAME) SCHEDULED COMPLETION DATE: (ADDRESS) [2-1/2"](DATE) (LOCAL PHONE NO.)

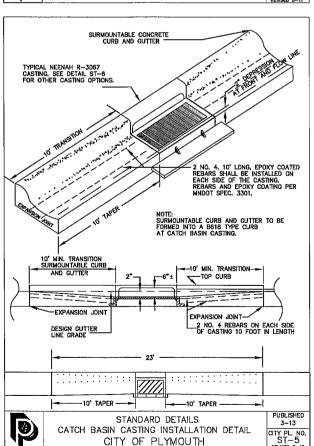
Sign shall be 4' x 6' with a white background with black letters, (no hand lettering) and of proper height to be readly visible from an automobile, and located as directed by engineer. Sign shall be mounted on 4"x 4"

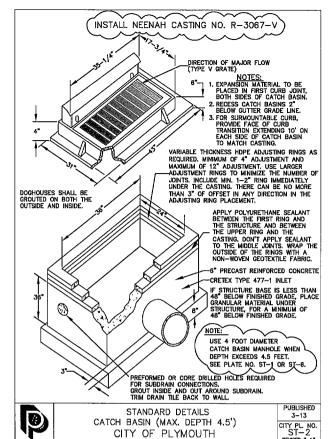
( ) Project Specific Information

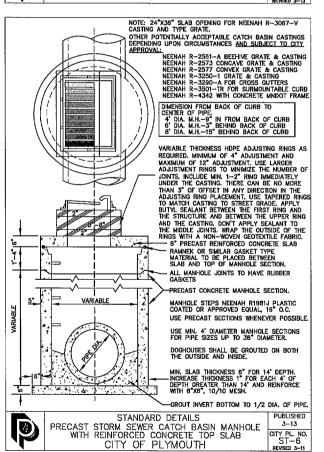


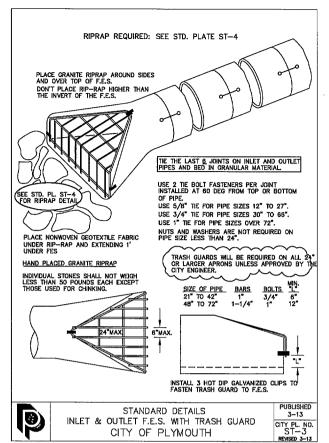
STANDARD DETAILS STANDARD CITY PROJECT SIGN CITY OF PLYMOUTH

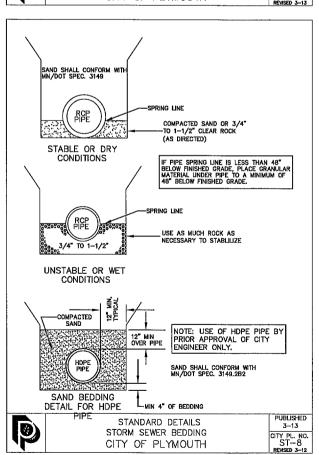
PUBLISHED 3-13

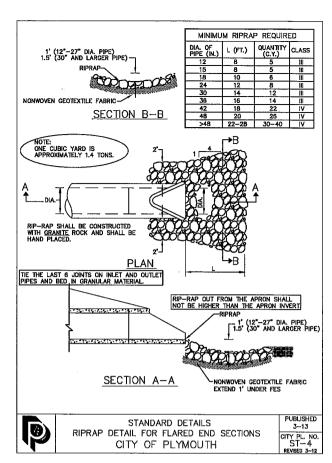


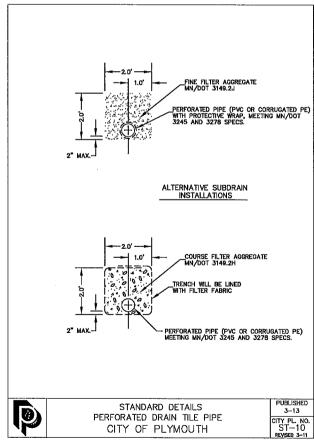


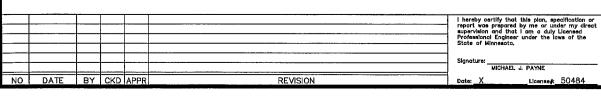












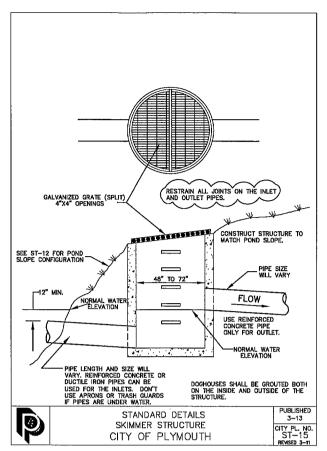


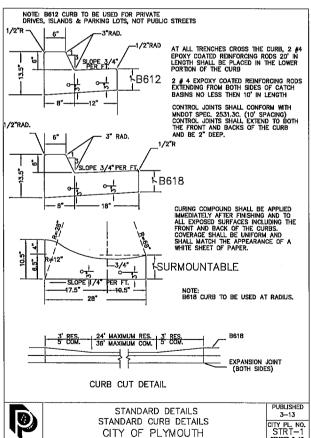
PLYMOUTH, MINNESOTA FOUR SEASONS MALL WATER QUALITY IMPROVEMENT CITY PROJECT NO. 11022

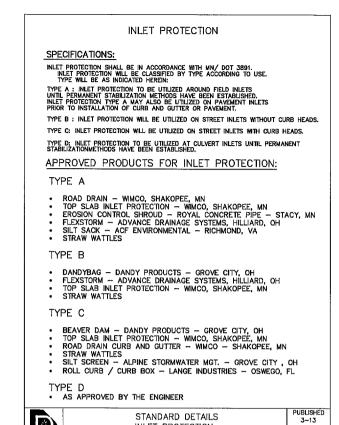
STATE AID DRAWN BY PROJ. NO. 7-13 ESIGNED BY DETAILS M.PAYNE CHECKED BY 7-13 D. ASCHE 7-13 REVIEWED BY FOUR SEASONS

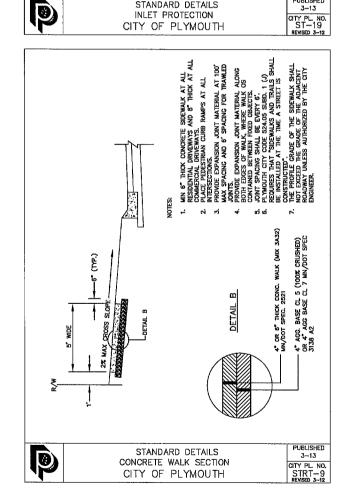
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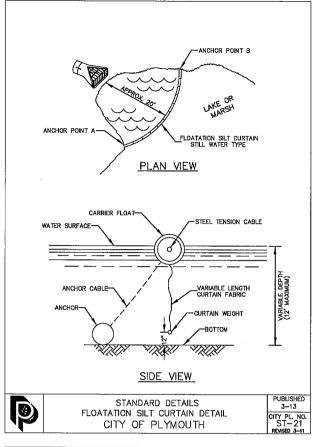
J. RENNEBERG 7-13

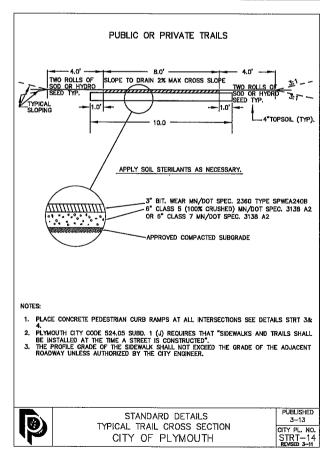


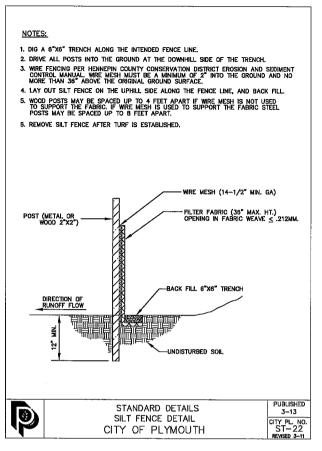


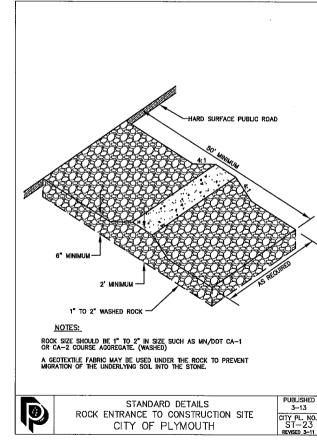


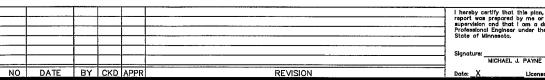






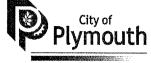






I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the

Honnest: 50484

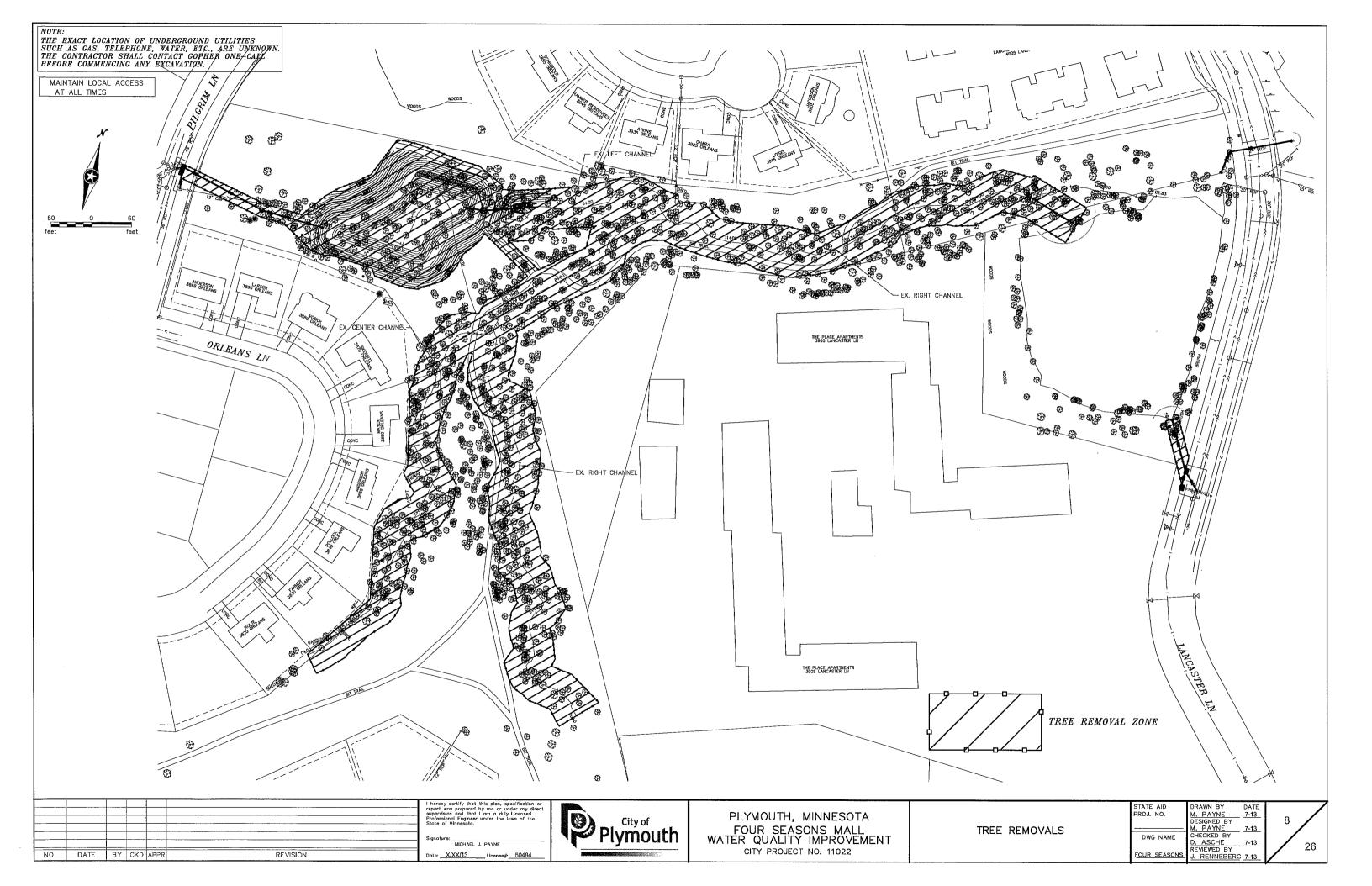


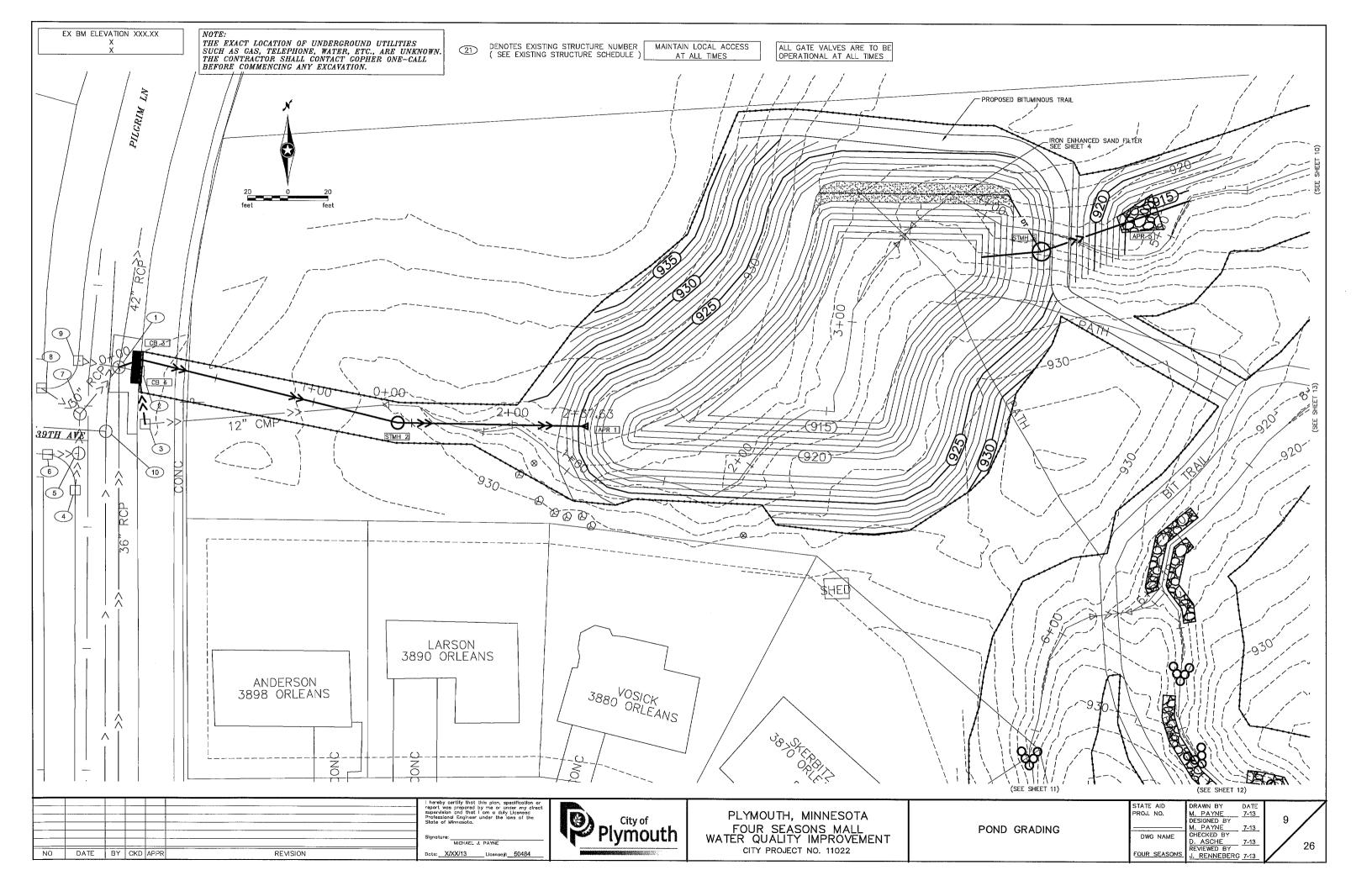
PLYMOUTH, MINNESOTA FOUR SEASONS MALL WATER QUALITY IMPROVEMENT CITY PROJECT NO. 11022

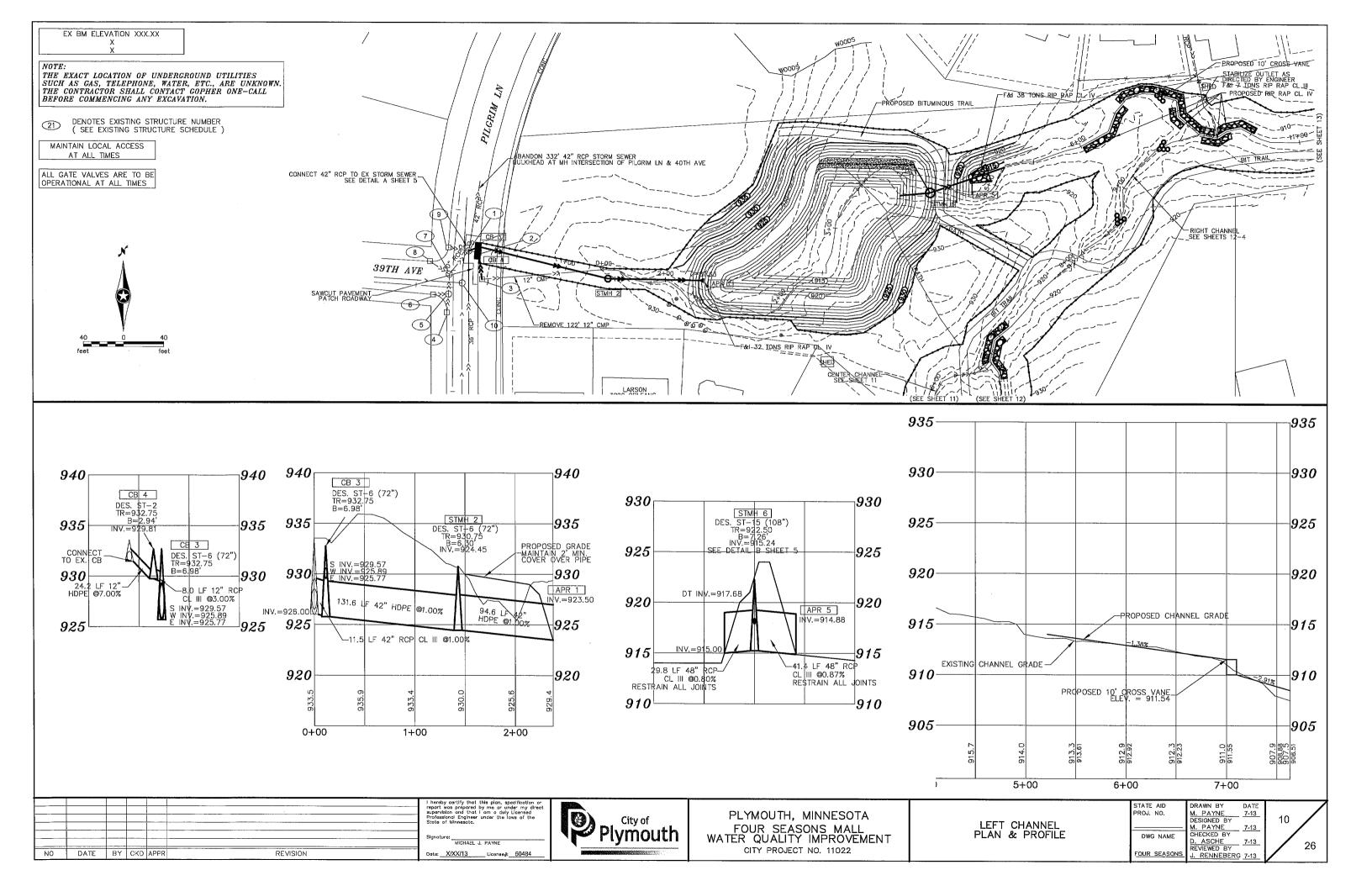
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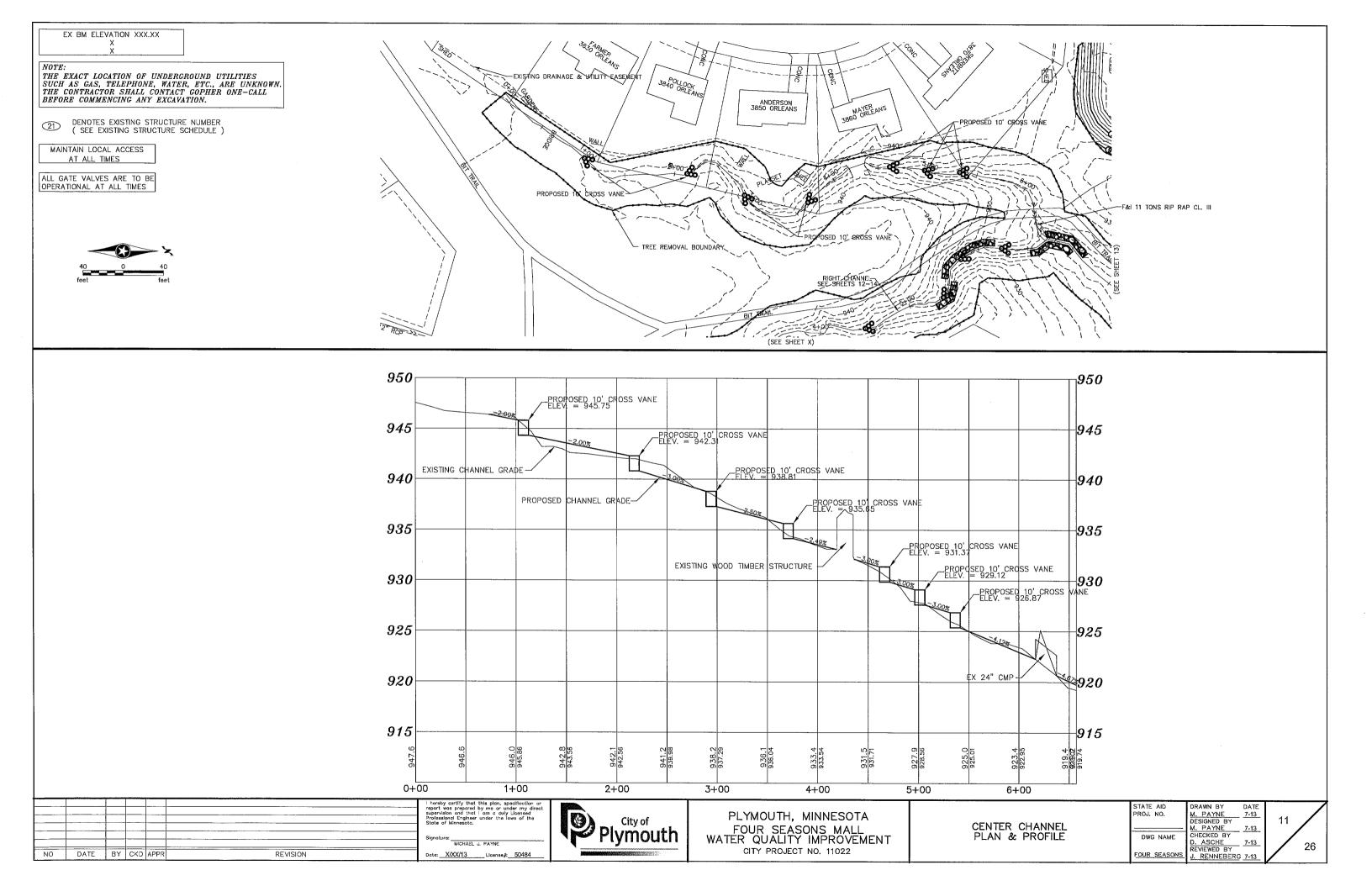
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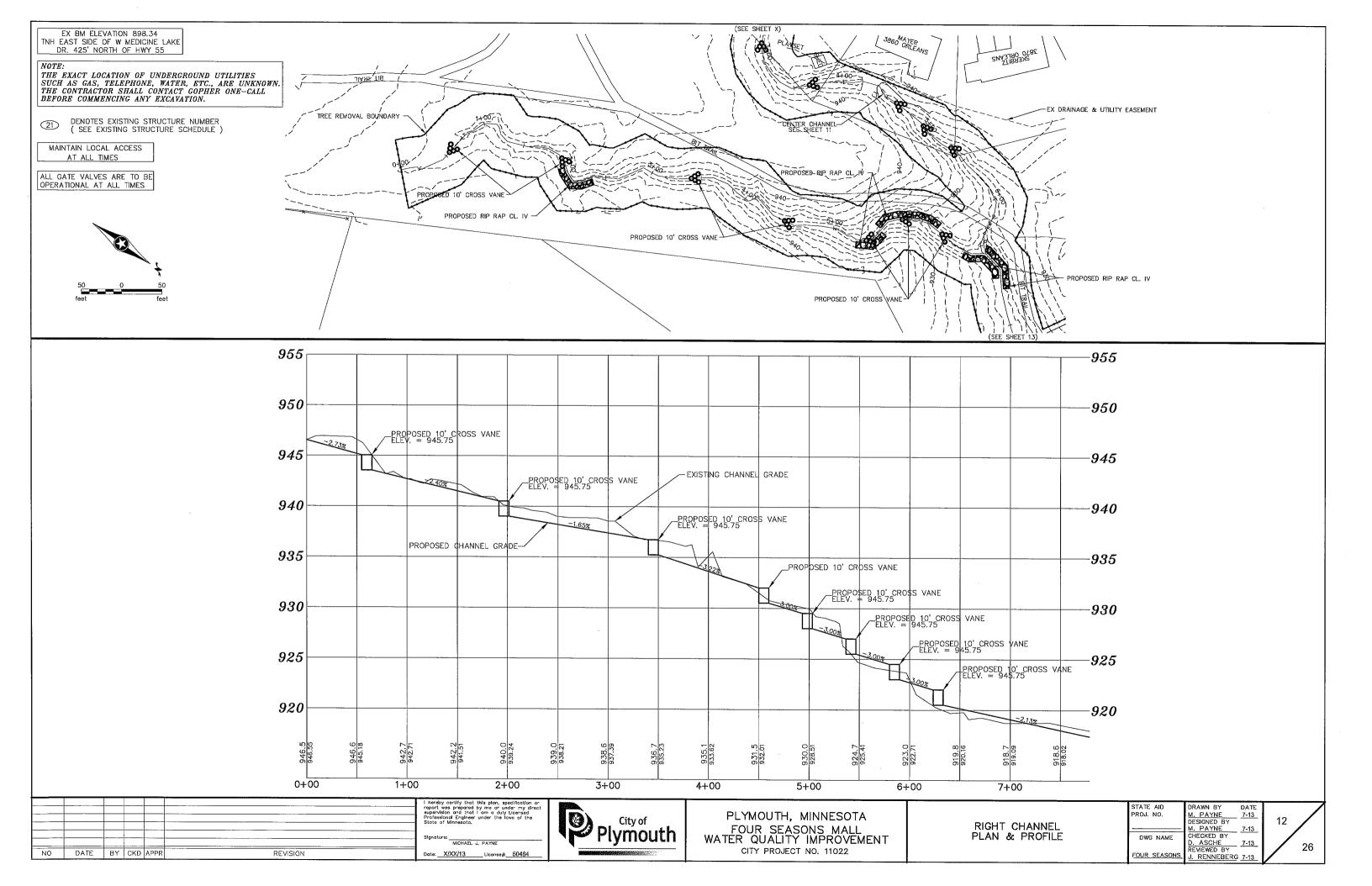
26

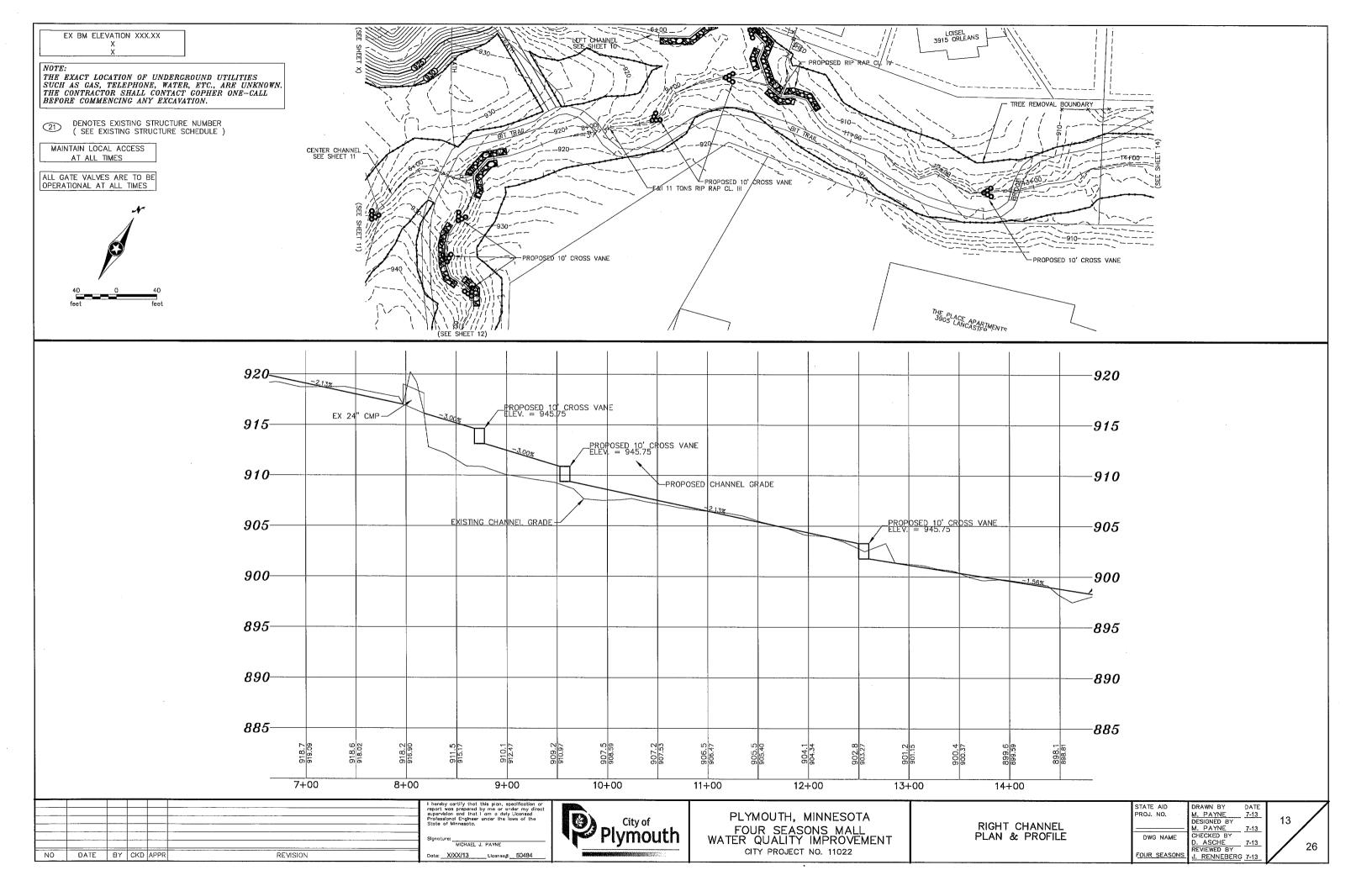


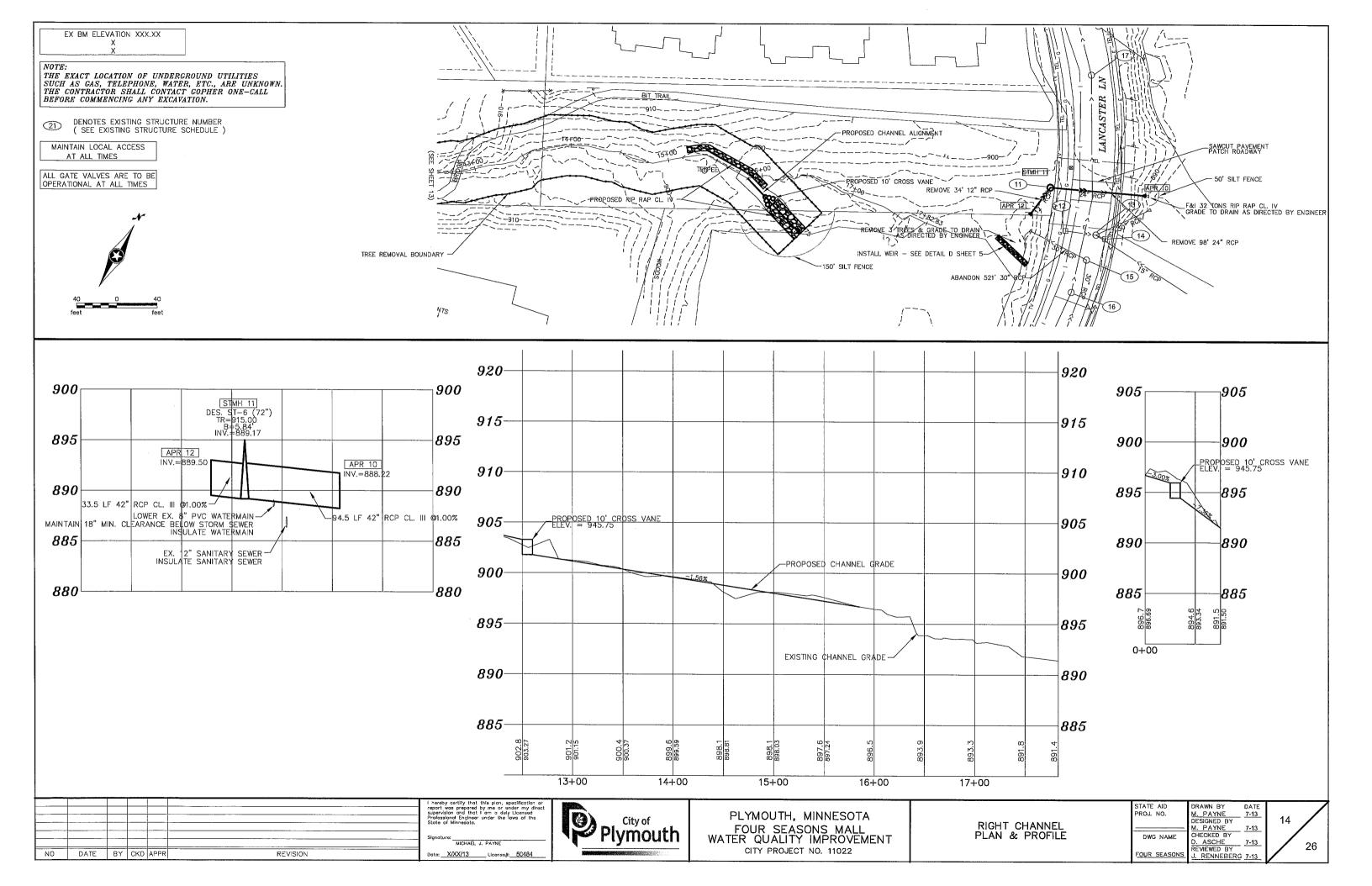


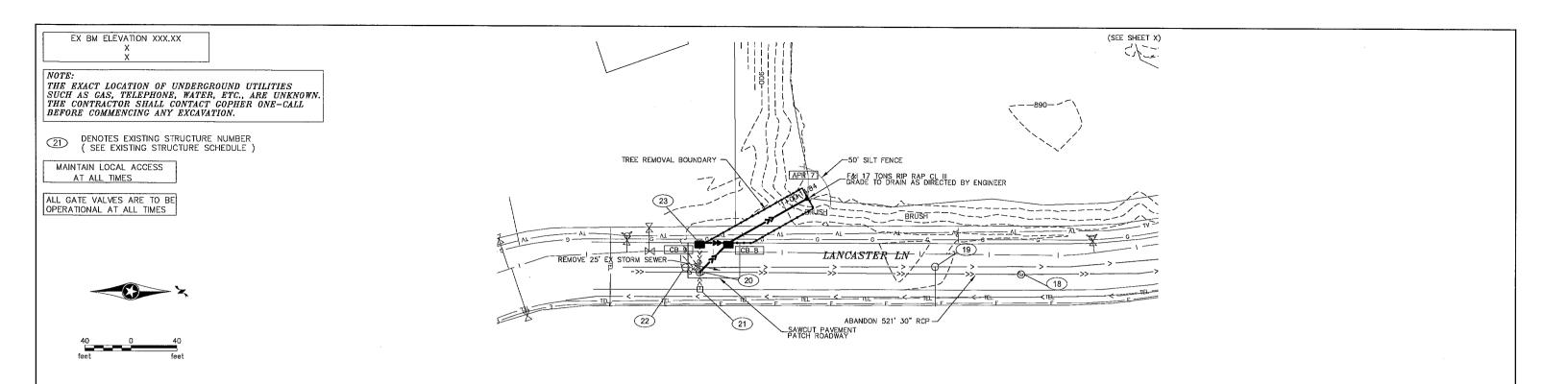


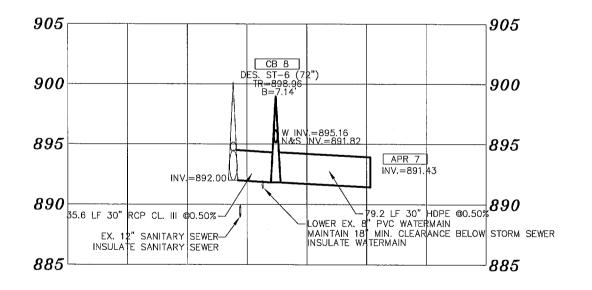


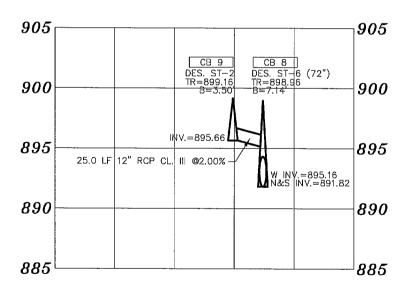












						I hereby certify that this plan, specification report was prepared by me or under my after supervision and that I am a duly Licansed Professional Engineer under the laws of the State of Minnesota.
						Signature: MICHAEL J. PAYNE
NO	DATE	BY	CKD	APPR	REVISION	Date: X/XX/13 License#: 50484



PLYMOUTH, MINNESOTA FOUR SEASONS MALL WATER QUALITY IMPROVEMENT CITY PROJECT NO. 11022

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1	FOUR SEASONS	J. RENNEBERG	7-13	





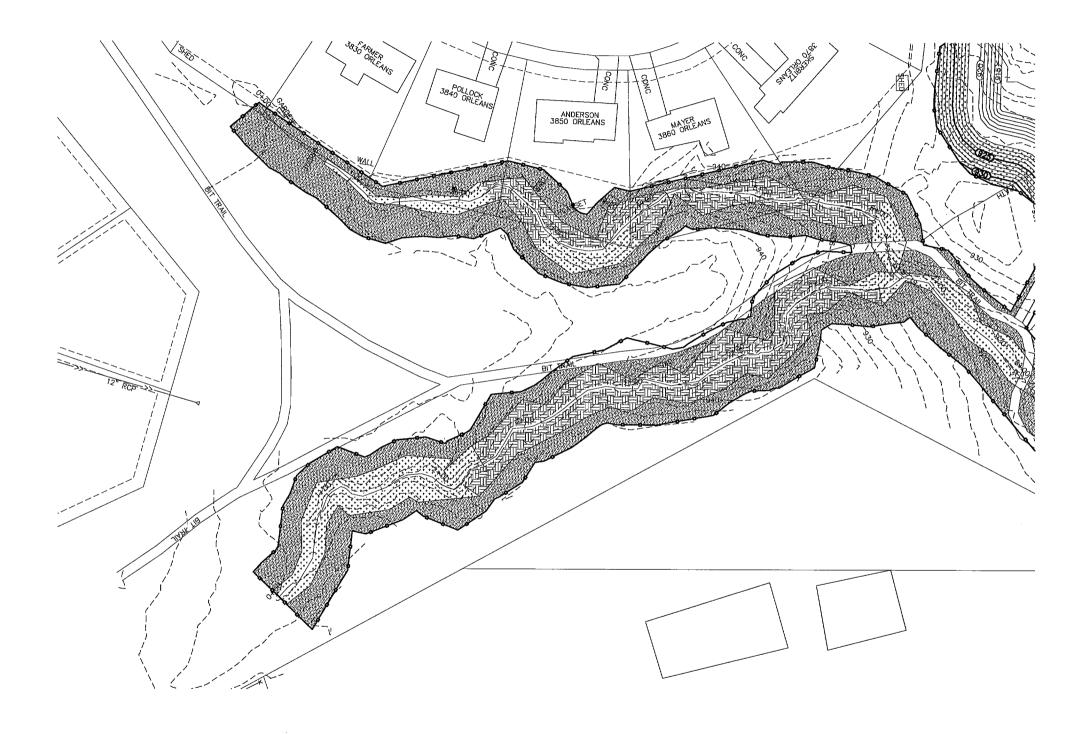
MnDOT TYPE II COMPOST (3" THICKNESS) WITH SEED



MnDOT TYPE II COMPOST (3" THICKNESS) WITH SEED & EROSION CONTROL BLANKET (TYPE ?)

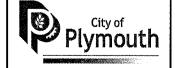


WOODY VEGETATION (SHRUBS?) 3' OC & MnDOT TYPE II COMPOST (3" THICKNESS) WITH SEED & EROSION CONTROL BLANKET (TYPE ?)



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Signature: MICHAEL J. PAYNE Date: X/XX/13 License#: 50484



PLYMOUTH, MINNESOTA FOUR SEASONS MALL WATER QUALITY IMPROVEMENT CITY PROJECT NO. 11022

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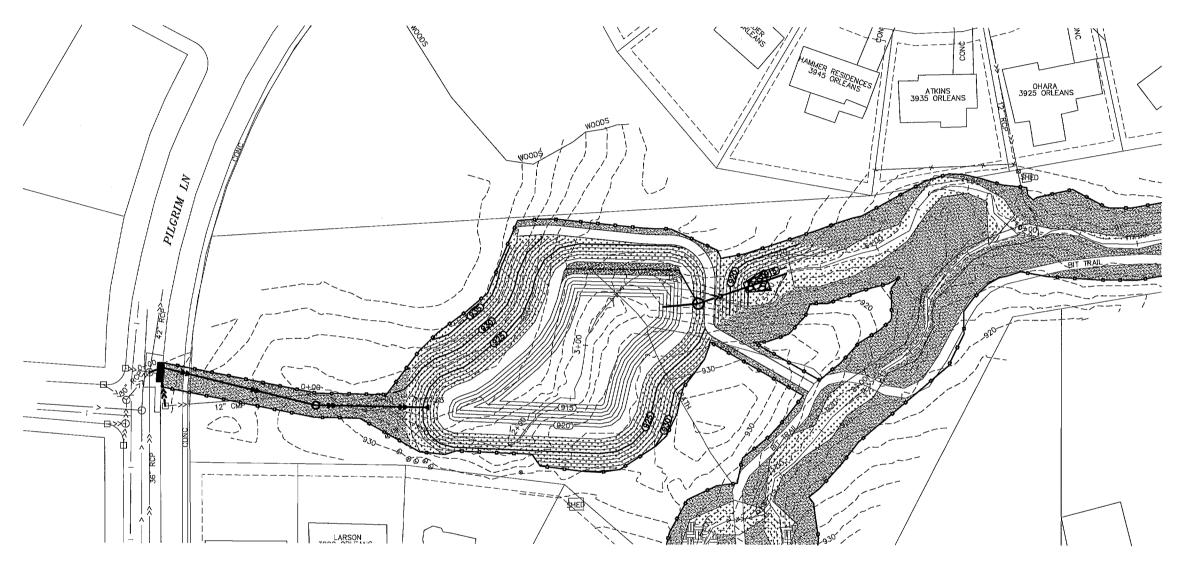
MnDOT TYPE II COMPOST (3" THICKNESS) WITH SEED



MnDOT TYPE II COMPOST (3" THICKNESS) WITH SEED & EROSION CONTROL BLANKET (TYPE ?)



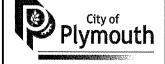
WOODY VEGETATION (SHRUBS?) 3' OC & MnDOT TYPE II COMPOST (3" THICKNESS) WITH SEED & EROSION CONTROL BLANKET (TYPE ?)



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ssional Engineer un: of Minnesota.	der the laws of the	

Signature: MICHAEL J. PAYNE Date: X/XX/13 Llcense#: 50484



PLYMOUTH, MINNESOTA
FOUR SEASONS MALL
WATER QUALITY IMPROVEMENT
CITY PROJECT NO. 11022

	STATE AID	DRAWN BY	DATE	
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	FOUR SEASONS	REVIEWED BY		_
	TOUR SEASONS	J. RENNEBERG	<u>7-13</u>	

