

**RAMSEY COUNTY
COOPERATIVE AND MAINTENANCE AGREEMENT
WITH THE CITY OF SAINT PAUL FOR
Reconstruction of Jackson Street (County State Aid Highway 55)
between Rose Avenue and Wheelock Parkway
S.A.P 062-655-009; 062-655-013,062-631-037 S.A.P 164-020-181, 164-020-179,
S.A.P. 164-020-183**

Total Project Cost: \$13,703,065.90

City of St Paul Cost: \$ 1,201,150.00

Attachments:

A – Engineer's Estimate

B – Storm Sewer Ownership

This Cooperative and Maintenance Agreement ("Agreement") is between the City of Saint Paul, a municipal corporation ("City") and Ramsey County, a political subdivision of the State of Minnesota, ("County") for the reconstruction of Jackson Street between Rose Avenue and Wheelock Parkway ("Project").

RECITALS

1. The Project is identified in County's 2025 – 2029 Transportation Improvement Program.
2. Jackson Street, in the area affected by reconstruction, is designated County State Aid Highway (CSAH) 55.
3. The Project has been designated by the Minnesota Department of Transportation (Mn/DOT) as eligible for County State Aid Highway funds.
4. The Project has been designated as State Aid Project S.A.P 062-655-009; 062-655-013, 062-631-037; S.A.P 164-020-181; S.A.P.164-020-179 S.A.P.164-020-183
5. The Project road segment is located within the City.
6. The joint powers agreement between the County and the City, County Resolution 93-643 and City Council File 93-1974, details maintenance responsibilities and costs on the County road system in the City.

AGREEMENTS

1. Responsibility for Design Engineering

1.1. Plans, specifications, and proposals will be prepared in accordance with MnDOT State Aid requirements.

1.2. The County will prepare plans, specifications, and proposals for the Project, which will include, among other things, the proposed reconstruction, bridge, alignment, profiles, grades, cross sections, paving, concrete curb and gutter, medians, storm sewer, storm water treatment and infiltration basins, pedestrian curb ramps, turf establishment, traffic signals, street lighting, accessible pedestrian signals, and utility replacement and adjustments.

1.3. Plans for the Project showing proposed construction will be presented to the City and will be on file at County's Public Works Department.

1.4. Any costs associated with Project revisions after the completion of plans and specifications will be paid for by the party requesting the revisions. Revisions are subject to approval by the County.

2. Responsibility for the Right of Way Plan and Acquisition

2.1. The parties have previously entered into Ramsey County Cooperative Agreement PW2025-11R dated November 17, 2025 (the "Right of Way Cooperative Agreement"). The Right of Way Cooperative Agreement sets forth the parties' responsibilities for the preparation of all right of way acquisition plan showing easements and other property interests required for construction of the Project, and the acquisition of such proposed easements and right of way, all in accordance with MnDOT State Aid standards .

3. Procurement and Award of Contract

3.1. The County will take bids in accordance with state law and County procedures.

3.2. The County will prepare an abstract of bids and a cost participation summary to the City based on either a lowest responsible bid or a value based bid.

3.3. The County will request the City's concurrence to award a contract to the lowest responsible bidder. The County will consult with the City before bidding to determine whether a low bid or best value contract will be awarded.

3.4. The County will award a contract and pay the contractor from County State Aid Highway, Municipal State Aid Street and City funds identified for the Project.

4. Responsibility for Construction Engineering

- 4.1. The County shall perform or contract the performance of the construction engineering for all elements of the Project.
- 4.2. The County will consult with City with regard to change orders and the use of any contingency funding.

5. Project Costs

- 5.1. Except as provided herein, the County and City will participate in the costs of construction in accordance with the Ramsey County Cost Participation Policy approved in the 2026 – 2030 Ramsey County Transportation Improvement Plan. If there is a conflict between the Cost Participation Policy and this Agreement, this Agreement will prevail.
- 5.2. A list of the construction pay items and percentages of City funding responsibility as well as the City's total estimated Project cost is attached hereto as Exhibit A "Cost Participation Based on Engineer's Estimate)." Quantities and unit prices in Exhibit A are estimates. Actual costs shall be based on the contract unit prices and the quantities constructed. Costs will be calculated after applying federal funding to the items.
- 5.3. Mobilization, Field Office, Erosion Control Supervisor, Traffic Control, Erosion Control Items (such as Storm Drain Inlet Protection, Water, Street Sweeper) are defined collectively as the "Prorated Items." The City's percentage of the Prorated Items is calculated as follows:

$$\text{City \% Prorated Items} = \frac{(\text{City Cost excluding the Prorated Items Cost})}{(\text{Total Project Cost excluding the Prorated Items Cost})}$$

The costs in the Prorated Items calculation will be based on contract unit prices and quantities at the time of contract award. No adjustments in the percentages will be made if unit prices or quantities vary during construction.

- 5.4. The City will supply signal cabinet and emergency vehicle preemption equipment which will be paid for under a separate force account agreement and in accordance with the existing agreement between the City and state. Traffic equipment/supply costs will also include overhead and staffing costs.

5.5. Design Engineering Fees

- 5.5.1. The City shall pay County a design engineering fee equal to 12% of the identified project items as detailed in Exhibit A.

5.5.2. Design engineering fees shall be calculated based on the quantities and unit prices at the time of contract award.

5.6. Right of Way Acquisition Costs

5.6.1. Right of way acquisition costs will be split between City and County pursuant to the Right of Way Cooperative Agreement.

5.6.2 The City hereby grants to the County temporary construction easements over, across and under all City-owned right of way and property within the Project limits for use during construction, at no cost to the County, including, without limitation, over, across and under the City-owned properties.

5.7. Construction Engineering Fees

5.7.1. The City shall pay County a construction engineering fee equal to 12% of the identified project items as detailed in Exhibit A.

5.7.2. The City shall pay County a construction administration engineering fee equal to 2% of its share of City inspected items identified in Exhibit A.

5.7.3. Construction engineering fees shall be calculated based on the final contract quantities and unit prices.

6. Payment Schedule

6.1. Design engineering costs will be invoiced at the time of contract award.

6.2. The County will invoice City for construction costs incurred on a quarterly basis, or as determined by the payment schedule for the contractor.

6.3. Construction engineering costs will be invoiced at the time of substantial project completion, as determined by the County.

6.4. Payment will be made within 30 days of receipt of an invoice.

7. Ownership and Maintenance Responsibility for Project Elements

7.1. Ownership and Maintenance Responsibility: Roadway

7.1.1. The County will own and maintain the roadway and associated roadway elements location within the County Right of Way, except as detailed below.

7.2. Ownership and Maintenance Responsibility: Storm Sewer

7.2.1. The County and City will own and maintain their respective elements of the storm sewer system in accordance with the City-County routine maintenance agreement individual National Pollutant Discharge Elimination System (NPDES) permits, and Watershed District Maintenance agreements. Additionally, this Agreement does not alleviate either Agency of their NPDES reporting and operational obligations. Storm sewer system elements are identified in Attachment B and as follows.

7.2.2. The City shall own the following components of the storm sewer system:

- i. Trunk line
- ii. Trunk line manholes, including manholes which connect catch basins and leads to the truck line
- iii. Surface drains located inside City right-of-way and associated leads
- iv. Trunk line outfalls

7.2.3. The County shall own the following components of the storm sewer system:

- v. Catch basins
- vi. Catch basin leads
- vii. Cross-culverts
- viii. Surface drains located within the County road right-of-way
- ix. Stormwater treatment BMP

7.2.4. The City and County shall each maintain the components of the storm sewer system under their respective ownership. See Attachment B.

7.3. The City will own and maintain the public sanitary sewer system.

7.4. The City will own and maintain the street lights.

7.5. The City will own and maintain boulevard trees.

7.6. Ownership and Maintenance of the Sidewalk

7.6.1 The County will own the sidewalk and be responsible for major maintenance and replacement at the end of its useful life. The City shall be responsible for all minor maintenance, including but not limited to patching, snow and ice control, debris removal, vegetation control, and settlement adjustments. Sidewalk maintenance will be accomplished in accordance with City policies and ordinances.

7.6.2 The County will own the trail and be responsible for major maintenance and replacement at the end of its useful life. The County may enter into a reimbursable maintenance agreement with the City responsible for some or all of the following maintenance activities: minor patching, snow and ice control, sweeping, debris removal, and vegetation control. If there is no reimbursable maintenance agreement with the City, the County is responsible for all the

maintenance activities. The County and the City will abide by the joint powers agreement, County Resolution 93-643 and City Council File 93-1974 or any subsequent maintenance.

8. Each party is responsible for its own acts and omissions and the results thereof to the extent authorized by law and will not be responsible for the acts and omissions of any others and the results thereof.
9. This Agreement shall remain in full force and effect until terminated by mutual agreement of the parties.
10. Counterparts – The parties may sign this Agreement in counterparts, each of which constitutes an original, but all of which together constitute one instrument
11. Electronic Signatures - The parties agree that the electronic signature of a party to this Agreement be valid as an original signature of such party and shall be effective to bind such party to this Agreement. The parties further agree that any document including this Agreement containing, or to which there is affixed, an electronic signature shall be deemed (i) to be “written” or “in writing,” (ii) to have been signed and (iii) to constitute a record established and maintained in ordinary course of business and an original written when printed from electronic files. For purposes hereof, “electronic signature also means a manually signed original signature that is then transmitted by any electronic means, including without limitation a faxed version of an original signature or an electronically scanned and transmitted version (e.g., via PDF) of an original signature. Any party’s failure to produce the original signature of any electronically transmitted signature shall not affect the enforceability of this Agreement.

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CITY OF SAINT PAUL, MINNESOTA

By: _____
Mayor

Date: _____

By: _____
Director of Public Works

Date: _____

Approved by the Office of Financial Services:

By: _____

Approved as to Form:

By: _____
Assistant City Attorney

RAMSEY COUNTY, MINNESOTA

Ling Beker, County Manager

Date: _____

Approval recommended:

Brian Isaacson, Director
Public Works Department

Approved as to form:

Assistant County Attorney

Construction Cost Estimate - 100% Construction Plans
JACKSON STREET (CSAH 55) - NORTH SECTION

Date Prepared: 2/25/2026

Item #	Description	Units	Unit Cost	Total Estimate		STATE AID PARTICIPATING				NON PARTICIPATING			
				Quantity	Cost	RAMSEY COUNTY ROADWAY	RAMSEY COUNTY STORM SEWER	CITY OF ST PAUL		CITY OF ST PAUL	CITY OF ST PAUL		
						SAP 062-655-013	SAP 062-655-013	SAP 164-020-179		SAINT PAUL REGIONAL WATER	SANITARY SEWERS		
						Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
2011.601	VIBRATION MONITORING (WATERMAIN)	LUMP SUM	\$ 10,000.00	1	\$ 10,000.00	1	\$ 10,000.00						
2021.501	MOBILIZATION	LUMP SUM	\$ 65,000.00	1	\$ 65,000.00	0.64	\$ 41,600.00	0.09	\$ 5,850.00	0.23	\$ 14,950.00		
2101.502	CLEARING	EACH	\$ 400.00	7	\$ 2,800.00	7	\$ 2,800.00					0.04	\$ 2,600.00
2101.502	GRUBBING	EACH	\$ 400.00	7	\$ 2,800.00	7	\$ 2,800.00						
2101.505	CLEARING	ACRE	\$ 10,000.00	0.06	\$ 600.00	0.06	\$ 600.00						
2101.505	GRUBBING	ACRE	\$ 10,000.00	0.06	\$ 600.00	0.06	\$ 600.00						
2102.503	PAVEMENT MARKING REMOVAL	LIN FT	\$ 1.00	4400	\$ 4,400.00	4400	\$ 4,400.00						
2103.502	DISCONNECT WATER SERVICE	EACH	\$ 2,000.00	1	\$ 2,000.00					1	\$ 2,000.00		
2104.502	REMOVE CONCRETE STEPS	EACH	\$ 700.00	5	\$ 3,500.00	5	\$ 3,500.00						
2104.502	REMOVE MANHOLE OR CATCH BASIN	EACH	\$ 1,000.00	4	\$ 4,000.00	4	\$ 4,000.00						
2104.502	REMOVE CASTING	EACH	\$ 250.00	21	\$ 5,250.00	21	\$ 5,250.00						
2104.502	REMOVE HYDRANT	EACH	\$ 1,200.00	2	\$ 2,400.00	2	\$ 2,400.00						
2104.502	REMOVE SIGN	EACH	\$ 200.00	18	\$ 3,600.00	18	\$ 3,600.00						
2104.502	REMOVE LIGHTING SYSTEM	EACH	\$ 20,000.00	1	\$ 20,000.00			1	\$ 20,000.00				
2104.502	REMOVE SIGN PANEL	EACH	\$ 150.00	8	\$ 1,200.00	8	\$ 1,200.00						
2104.502	SALVAGE SIGN	EACH	\$ 100.00	6	\$ 600.00	6	\$ 600.00						
2104.502	SALVAGE SIGN PANEL	EACH	\$ 100.00	3	\$ 300.00	3	\$ 300.00						
2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	\$ 5.00	18	\$ 90.00	18	\$ 90.00						
2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	\$ 4.00	2566	\$ 10,264.00	2566	\$ 10,264.00						
2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	\$ 25.00	86	\$ 2,150.00	86	\$ 2,150.00						
2104.503	REMOVE CURB & GUTTER	LIN FT	\$ 5.00	2226	\$ 11,130.00	2226	\$ 11,130.00						
2104.504	REMOVE CONCRETE WALK	SQ YD	\$ 12.00	490	\$ 5,880.00	490	\$ 5,880.00						
2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$ 13.00	270	\$ 3,510.00	270	\$ 3,510.00						
2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$ 6.00	37	\$ 222.00	37	\$ 222.00						
2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$ 5.00	3259	\$ 16,295.00	3259	\$ 16,295.00						
2104.518	REMOVE BITUMINOUS WALK	SQ FT	\$ 2.00	1485	\$ 2,970.00	1485	\$ 2,970.00						
2104.602	SALVAGE SIGN PANEL SPECIAL	EACH	\$ 200.00	4	\$ 800.00	4	\$ 800.00						
2106.507	EXCAVATION - COMMON	CU YD	\$ 10.00	1619	\$ 16,190.00	1619	\$ 16,190.00						
2106.507	SELECT GRANULAR EMBANKMENT (CV)	CU YD	\$ 20.00	971	\$ 19,420.00	971	\$ 19,420.00						
2106.507	COMMON EMBANKMENT (CV)	CU YD	\$ 4.00	808	\$ 3,232.00	808	\$ 3,232.00						
2123.610	TRACTOR MOUNTED BACKHOE	hour	\$ 200.00	100	\$ 20,000.00	100	\$ 20,000.00						
2123.610	STREET SWEEPER WITH VACUUM PICKUP	hour	\$ 200.00	100	\$ 20,000.00	100	\$ 20,000.00						
2211.507	AGGREGATE BASE (CV) CLASS 6	CU YD	\$ 45.00	850	\$ 38,250.00	691	\$ 31,095.00	159	\$ 7,155.00				
2232.504	MILL BITUMINOUS SURFACE	SQ YD	\$ 4.00	5406	\$ 21,624.00	5406	\$ 21,624.00						
2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	\$ 4.00	555	\$ 2,220.00	520	\$ 2,080.00	35	\$ 140.00				
2360.509	TYPE SP 9.5 WEARING COURSE MIX (2.B)	TON	\$ 120.00	332	\$ 39,840.00	236	\$ 28,320.00	96	\$ 11,520.00				
2360.509	TYPE SP 12.5 NON WEAR COURSE MIX (4.B)	TON	\$ 110.00	110	\$ 12,100.00	88	\$ 9,680.00	22	\$ 2,420.00				
2360.509	TYPE SP 12.5 WEARING COURSE MIX (4.C)	TON	\$ 110.00	665	\$ 73,150.00	613	\$ 67,430.00	52	\$ 5,720.00				
2411.502	CONCRETE STAIRWAY	EACH	\$ 15,000.00	1	\$ 15,000.00	1	\$ 15,000.00						
2451.607	CRUSHED ROCK (3/4 CLEAR)	CU YD	\$ 100.00	10	\$ 1,000.00	10	\$ 1,000.00						
2451.609	GRANULAR BACKFILL	TON	\$ 30.00	75	\$ 2,250.00	75	\$ 2,250.00						
2475.503	PIPE RAILING	LIN FT	\$ 300.00	13	\$ 3,900.00	13	\$ 3,900.00						
2502.503	4" TP PIPE DRAIN	LIN FT	\$ 11.00	60	\$ 660.00	60	\$ 660.00						
2502.503	4" PERF TP PIPE DRAIN	LIN FT	\$ 12.00	2118	\$ 25,416.00	2118	\$ 25,416.00						
2503.503	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$ 85.00	170	\$ 14,450.00			170	\$ 14,450.00				
2503.503	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$ 100.00	100	\$ 10,000.00			100	\$ 10,000.00				
2503.602	CONSTRUCT BULKHEAD	EACH	\$ 1,100.00	1	\$ 1,100.00			1	\$ 1,100.00				
2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$ 2,000.00	5	\$ 10,000.00			5	\$ 10,000.00				
2503.603	REMOVE WATER MAIN (ANY SIZE)	LIN FT	\$ 20.00	103	\$ 2,060.00	103	\$ 2,060.00						
2503.603	PLUG FILL & ABANDON PIPE SEWER	LIN FT	\$ 30.00	24	\$ 720.00			24	\$ 720.00				
2503.603	CLEAN AND TELEWISE SANITARY SEWER	LIN FT	\$ 20.00	2329	\$ 46,580.00							2329	\$ 46,580.00
2503.603	CLEAN & VIDEO TAPE PIPE SEWER	LIN FT	\$ 7.00	2797	\$ 19,579.00			2797.00	\$ 19,579.00				
2504.602	HYDRANT	EACH	\$ 10,000.00	2	\$ 20,000.00	2	\$ 20,000.00						
2504.602	VALVE BOX	EACH	\$ 1,500.00	1	\$ 1,500.00	1	\$ 1,500.00						
2504.602	ADJUST VALVE BOX	EACH	\$ 800.00	7	\$ 5,600.00	7	\$ 5,600.00						
2504.602	REPAIR VALVE BOX	EACH	\$ 800.00	1	\$ 800.00	1	\$ 800.00						

Item #	Description	Units	Unit Cost	Total Estimate		RAMSEY COUNTY ROADWAY SAP 062-655-013		RAMSEY COUNTY STORM SEWER SAP 062-655-013		CITY OF ST PAUL SAP 164-020-179		CITY OF ST PAUL SAINT PAUL REGIONAL WATER		CITY OF ST PAUL SANITARY SEWERS	
				Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
2504.602	1.5" CORPORATION STOP	EACH	\$ 3,500.00	2	\$ 7,000.00	2	\$ 7,000.00								
2504.602	6" GATE VALVE & BOX	EACH	\$ 4,000.00	1	\$ 4,000.00	1	\$ 4,000.00								
2504.602	CURB BOX	EACH	\$ 1,000.00	1	\$ 1,000.00	1	\$ 1,000.00								
2504.602	ADJUST CURB BOX	EACH	\$ 400.00	3	\$ 1,200.00	3	\$ 1,200.00								
2504.602	SACRIFICIAL ANODE	EACH	\$ 500.00	3	\$ 1,500.00							3	\$ 1,500.00		
2504.602	SACRIFICIAL ANODE RETROFIT	EACH	\$ 350.00	8	\$ 2,800.00							8	\$ 2,800.00		
2504.602	EXCAVATION FOR WATER MAIN OFFSET	EACH	\$ 10,000.00	1	\$ 10,000.00	1	\$ 10,000.00								
2504.602	WATER UTILITY HOLE	EACH	\$ 5,000.00	4	\$ 20,000.00	4	\$ 20,000.00								
2504.603	1.5" TYPE K COPPER PIPE	LIN FT	\$ 115.00	14	\$ 1,610.00	14	\$ 1,610.00								
2504.603	6" WATERMAIN DUCTILE IRON CL 53	LIN FT	\$ 200.00	21	\$ 4,200.00	21	\$ 4,200.00								
2504.603	24" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$ 400.00	80	\$ 32,000.00	80	\$ 32,000.00								
2504.604	2" POLYSTYRENE INSULATION	SQ YD	\$ 20.00	108	\$ 2,160.00	36	\$ 720.00			72	\$ 1,440.00				
2504.608	DUCTILE AND GREY IRON FITTINGS	POUND	\$ 25.00	3020	\$ 75,500.00	3020	\$ 75,500.00								
2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	\$ 1,000.00	4	\$ 4,000.00					4	\$ 4,000.00				
2506.503	CONST DRAINAGE STRUCTURE DESIGN SPECIAL	LIN FT	\$ 1,000.00	28	\$ 28,000.00					28	\$ 28,000.00				
2506.503	CONST DRAINAGE STRUCTURE DES 48-4020	LIN FT	\$ 900.00	5	\$ 4,500.00					5	\$ 4,500.00				
2506.602	CONNECT INTO EXISTING DRAINAGE STRUCTURE	EACH	\$ 1,800.00	3	\$ 5,400.00					3	\$ 5,400.00				
2506.602	CASTING ASSEMBLY	EACH	\$ 1,500.00	31	\$ 46,500.00					22	\$ 33,000.00			9	\$ 13,500.00
2506.602	CASTING ASSEMBLY SPECIAL	EACH	\$ 800.00	8	\$ 6,400.00	8	\$ 6,400.00								
2506.602	ADJUST FRAME & RING CASTING	EACH	\$ 700.00	23	\$ 16,100.00	11	\$ 7,700.00			12.00	\$ 8,400.00				
2506.602	VALVE BOX CLEANOUT	EACH	\$ 500.00	9	\$ 4,500.00	9	\$ 4,500.00								
2521.518	6" CONCRETE WALK	SQ FT	\$ 14.00	2453	\$ 34,342.00	2453	\$ 34,342.00								
2521.602	DRILL & GROUT REINF BAR (EPOXY COATED)	EACH	\$ 16.00	252	\$ 4,032.00	252	\$ 4,032.00								
2521.618	CONCRETE CURB RAMP WALK	SQ FT	\$ 20.00	3323	\$ 66,460.00	2683	\$ 53,660.00			640	\$ 12,800.00				
2531.503	CONCRETE CURB & GUTTER DESIGN B424	LIN FT	\$ 35.00	2029	\$ 71,015.00	1666	\$ 58,310.00			363	\$ 12,705.00				
2531.503	CONCRETE CURB & GUTTER DESIGN B612	LIN FT	\$ 150.00	20	\$ 3,000.00	20	\$ 3,000.00								
2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$ 150.00	30	\$ 4,500.00	30	\$ 4,500.00								
2531.503	CONCRETE CURB DESIGN V4	LIN FT	\$ 150.00	54	\$ 8,100.00	54	\$ 8,100.00								
2531.503	CONCRETE CURB DESIGN V6	LIN FT	\$ 150.00	56	\$ 8,400.00	56	\$ 8,400.00								
2531.504	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$ 110.00	281	\$ 30,910.00	281	\$ 30,910.00								
2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$ 130.00	143	\$ 18,590.00	143	\$ 18,590.00								
2531.603	CONCRETE SILL	LIN FT	\$ 13.00	12	\$ 156.00	12	\$ 156.00								
2531.603	CONCRETE CURB & GUTTER	LIN FT	\$ 50.00	293	\$ 14,650.00	293	\$ 14,650.00								
2531.618	TRUNCATED DOMES	SQ FT	\$ 120.00	252	\$ 30,240.00	222	\$ 26,640.00			30	\$ 3,600.00				
2540.602	MAIL BOX SUPPORT	EACH	\$ 300.00	7	\$ 2,100.00	7	\$ 2,100.00								
2545.502	LIGHTING UNIT TYPE SPECIAL	EACH	\$ 6,500.00	16	\$ 104,000.00					16	\$ 104,000.00				
2545.502	LIGHT FOUNDATION DESIGN SPECIAL	EACH	\$ 1,500.00	6	\$ 9,000.00					6	\$ 9,000.00				
2545.502	SERVICE CABINET	EACH	\$ 7,000.00	1	\$ 7,000.00					1	\$ 7,000.00				
2545.502	HANDHOLE	EACH	\$ 1,500.00	8	\$ 12,000.00					8	\$ 12,000.00				
2545.503	2" NON-METALLIC CONDUIT	LIN FT	\$ 15.00	4380	\$ 65,700.00					4380	\$ 65,700.00				
2545.503	3" NON-METALLIC CONDUIT	LIN FT	\$ 15.00	40	\$ 600.00					40	\$ 600.00				
2545.503	UNDERGROUND WIRE 1/C 6 AWG	LIN FT	\$ 4.00	13260	\$ 53,040.00					13260	\$ 53,040.00				
2545.503	UNDERGROUND WIRE 1/C (BARE) 8 AWG	LIN FT	\$ 4.00	4420	\$ 17,680.00					4420	\$ 17,680.00				
2563.601	TRAFFIC CONTROL SUPERVISOR	LUMP SUM	\$ 10,000.00	1	\$ 10,000.00	1	\$ 10,000.00								
2563.601	TRAFFIC CONTROL	LUMP SUM	\$ 50,000.00	1	\$ 50,000.00	0.64	\$ 32,000.00	0.09	\$ 4,500.00	0.23	\$ 11,500.00			0.04	\$ 2,000.00
2563.601	ALTERNATE PEDESTRIAN ROUTE	LUMP SUM	\$ 8,000.00	1	\$ 8,000.00	0.64	\$ 5,120.00	0.09	\$ 720.00	0.23	\$ 1,840.00			0.04	\$ 320.00

Item #	Description	Units	Unit Cost	Total Estimate		RAMSEY COUNTY ROADWAY SAP 062-655-013		RAMSEY COUNTY STORM SEWER SAP 062-655-013		CITY OF ST PAUL SAP 164-020-179		CITY OF ST PAUL SAINT PAUL REGIONAL WATER		CITY OF ST PAUL SANITARY SEWERS	
				Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	\$ 70.00	10	\$ 700.00	10	\$ 700.00								
2564.502	INSTALL SIGN PANEL	EACH	\$ 200.00	3	\$ 600.00	3	\$ 600.00								
2564.602	INSTALL SIGN	EACH	\$ 700.00	6	\$ 4,200.00	6	\$ 4,200.00								
2564.602	INSTALL SIGN PANEL SPECIAL	EACH	\$ 500.00	4	\$ 2,000.00	4	\$ 2,000.00								
2564.602	DELINEATOR / MARKER	EACH	\$ 300.00	2	\$ 600.00	2	\$ 600.00								
2564.618	SIGN	SQ FT	\$ 100.00	89	\$ 8,900.00	89	\$ 8,900.00								
2564.618	SIGN PANEL	SQ FT	\$ 55.00	55	\$ 3,025.00	55	\$ 3,025.00								
2571.502	DECIDUOUS TREE 1.5" CAL B&B	EACH	\$ 900.00	24	\$ 21,600.00	24	\$ 21,600.00								
2571.502	DECIDUOUS TREE 2" CAL B&B	EACH	\$ 1,000.00	5	\$ 5,000.00	5	\$ 5,000.00								
2571.602	TREE PROTECTION	EACH	\$ 150.00	3	\$ 450.00	3	\$ 450.00								
2573.501	EROSION CONTROL SUPERVISOR	LUMP SUM	\$ 5,000.00	1	\$ 5,000.00	0.64	\$ 3,200.00	0.09	\$ 450.00	0.23	\$ 1,150.00			0.04	\$ 200.00
2573.502	STORM DRAIN INLET PROTECTION	EACH	\$ 220.00	28	\$ 6,160.00	28	\$ 6,160.00								
2573.502	FLOCCULANT SOCK	EACH	\$ 200.00	5	\$ 1,000.00	5	\$ 1,000.00								
2574.505	SUBSOILING	ACRE	\$ 500.00	0.3	\$ 150.00	0.3	\$ 150.00								
2574.505	SOIL BED PREPARATION	ACRE	\$ 500.00	1	\$ 500.00	1	\$ 500.00								
2574.507	BOULEVARD TOPSOIL BORROW	CU YD	\$ 80.00	16	\$ 1,280.00	16	\$ 1,280.00								
2574.508	FERTILIZER TYPE 1	POUND	\$ 5.00	199	\$ 995.00	199	\$ 995.00								
2575.504	ROLLED EROSION PREVENTION CATEGORY 20	SQ YD	\$ 2.00	926	\$ 1,852.00	926	\$ 1,852.00								
2575.505	SEEDING	ACRE	\$ 500.00	0.6	\$ 300.00	0.6	\$ 300.00								
2575.508	HYDRAULIC BONDED FIBER MATRIX	POUND	\$ 3.00	1993	\$ 5,979.00	1993	\$ 5,979.00								
2575.523	RAPID STABILIZATION METHOD 3	M GALLON	\$ 600.00	3.6	\$ 2,160.00	3.6	\$ 2,160.00								
2575.608	SEED SOUTHERN BOULEVARD	POUND	\$ 10.00	44	\$ 440.00	44	\$ 440.00								
2575.608	SEED TURFGRASS	POUND	\$ 10.00	58	\$ 580.00	58	\$ 580.00								
2581.503	4" REMOVABLE PREFORM PAVEMENT MARKING TAPE WR	LIN FT	\$ 2.00	4980	\$ 9,960.00	4980	\$ 9,960.00								
2581.503	6" REMOVABLE PREFORM PAVEMENT MARKING TAPE WR	LIN FT	\$ 2.00	800	\$ 1,600.00	800	\$ 1,600.00								
2581.603	REMOVABLE PREFORMED PLASTIC MASK (BLACK)	LIN FT	\$ 3.00	1600	\$ 4,800.00	1600	\$ 4,800.00								
2582.503	4" SOLID LINE PAINT	LIN FT	\$ 0.30	200	\$ 60.00	200	\$ 60.00								
2582.503	6" SOLID LINE PAINT (WR)	LIN FT	\$ 0.80	4400	\$ 3,520.00	4400	\$ 3,520.00								
2582.503	4" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	\$ 1.00	3968	\$ 3,968.00	3968	\$ 3,968.00								
2582.503	4" DBLE SOLID LINE MULTI COMP GR IN (WR)	LIN FT	\$ 2.00	1995	\$ 3,990.00	1995	\$ 3,990.00								
2582.518	CROSSWALK PREF THERMO GR IN	SQ FT	\$ 20.00	370	\$ 7,400.00	370	\$ 7,400.00							0	
Subtotal:				\$	1,649,656.00	\$	1,051,527.00	\$	152,109.00	\$	374,520.00	\$	6,300.00	\$	65,200.00
Inflation for 2026 construction (6%)				\$	87,000.00	\$	65,000.00	\$	9,000.00	\$	22,000.00			\$	4,000.00
Total:				\$	1,736,656.00	\$	1,116,527.00	\$	161,109.00	\$	396,520.00	\$	6,300.00	\$	69,200.00

NOTES:

(1) SEE DETAIL ON SHEET 26.

(2) AS DIRECTED BY THE ENGINEER.

(3) ALL 20", 24", AND 30" DI MAIN TO BE RESTRAINED SLIP JOINT OR LOCKING SLIP JOINT TYPE PIPE. US PIPE/MCWANE

TR FLEX, US PIPE HP LOK, AMERICAN LOK-RING, OR APPROVED EQUAL.

JACKSON ST (CSAH 55) - ENGINEER'S ESTIMATE																					
ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	PROJECT TOTAL		PARTICIPATING										NON-PARTICIPATING					
						JACKSON ST (CSAH 55)					MARYLAND AVE (CSAH 31)					WATER SYSTEM IMPROVEMENTS		SANITARY SEWER IMPROVEMENTS			
						RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL		RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL					
				QUANTITY	AMOUNT	SAP 062-655-009		SAP 062-655-009		SAP 164-020-181		SAP 062-631-037		SAP 062-631-037		SAP 164-020-183		SAINT PAUL REGIONAL WATER		CITY OF SAINT PAUL SEWERS	
						QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
2011.601	VIBRATION MONITORING (BUILDING)	LUMP SUM	\$25,000.00	1	\$25,000.00	1	\$25,000.00														
2011.601	VIBRATION MONITORING (WATERMAIN)	LUMP SUM	\$25,000.00	1	\$25,000.00	1	\$25,000.00														
2021.501	MOBILIZATION	LUMP SUM	\$1,000,000.00	1	\$1,000,000.00	0.85	\$850,000.00	0.05	\$50,000.00	0.03	\$30,000.00	0.04	\$40,000.00			0.01	\$10,000.00			0.02	\$20,000.00
2031.502	FIELD OFFICE	EACH	\$150,000.00	1	\$150,000.00	0.85	\$127,500.00	0.05	\$7,500.00	0.03	\$4,500.00	0.04	\$6,000.00			0.01	\$1,500.00			0.02	\$3,000.00
2101.502	CLEARING	EACH	\$470.00	86	\$40,420.00	85	\$39,950.00					1	\$470.00								
2101.502	GRUBBING	EACH	\$350.00	87	\$30,450.00	86	\$30,100.00					1	\$350.00								
2101.505	CLEARING	ACRE	\$8,000.00	0.4	\$3,200.00	0.4	\$3,200.00														
2101.505	GRUBBING	ACRE	\$5,300.00	0.4	\$2,120.00	0.4	\$2,120.00														
2102.503	PAVEMENT MARKING REMOVAL	LIN FT	\$1.00	452	\$452.00							452	\$452.00								
2103.502	DISCONNECT WATER SERVICE	EACH	\$1,400.00	1	\$1,400.00															1	\$1,400.00
2104.502	REMOVE ANCHORAGE ASSEMBLY-PLATE BEAM	EACH	\$510.00	1	\$510.00	1	\$510.00														
2104.502	REMOVE RAILROAD TIES	EACH	\$160.00	111	\$17,760.00	111	\$17,760.00														
2104.502	REMOVE BOLLARDS	EACH	\$260.00	1	\$260.00	1	\$260.00														
2104.502	REMOVE TWISTED END TREATMENT	EACH	\$650.00	2	\$1,300.00	2	\$1,300.00														
2104.502	REMOVE MANHOLE OR CATCH BASIN	EACH	\$580.00	30	\$17,400.00	28	\$16,240.00					2	\$1,160.00								
2104.502	REMOVE MANHOLE	EACH	\$580.00	11	\$6,380.00	1	\$580.00													10	\$5,800.00
2104.502	REMOVE CASTING	EACH	\$250.00	19	\$4,750.00	17	\$4,250.00					2	\$500.00								
2104.502	REMOVE HYDRANT	EACH	\$900.00	9	\$8,100.00	9	\$8,100.00														
2104.502	REMOVE FOUNDATION	EACH	\$600.00	1	\$600.00	1	\$600.00														
2104.502	REMOVE SIGN	EACH	\$40.00	31	\$1,240.00	21	\$840.00					10	\$400.00								
2104.502	REMOVE LIGHTING SYSTEM	EACH	\$8,000.00	2	\$16,000.00					1	\$8,000.00					1	\$8,000.00				
2104.502	REMOVE SIGN PANEL	EACH	\$35.00	9	\$315.00	7	\$245.00					2	\$70.00								
2104.502	SALVAGE VEHICULAR GATE	EACH	\$2,500.00	1	\$2,500.00	1	\$2,500.00														
2104.502	SALVAGE SIGN	EACH	\$70.00	3	\$210.00	3	\$210.00														
2104.502	RELOCATE COMMUNITY EMBLEM	EACH	\$250.00	1	\$250.00	1	\$250.00														
2104.503	SAWING BIT PAVEMENT (FULL DEPTH)	LIN FT	\$3.00	2794	\$8,382.00	1187	\$3,561.00					1607	\$4,821.00								
2104.503	REMOVE SEWER PIPE (STORM)	LIN FT	\$18.00	899	\$16,182.00	849	\$15,282.00					50	\$900.00								
2104.503	REMOVE SEWER PIPE (SANITARY)	LIN FT	\$18.00	331	\$5,958.00	127	\$2,286.00													204	\$3,672.00
2104.503	REMOVE CURB & GUTTER	LIN FT	\$6.00	3597	\$21,582.00	1357	\$8,142.00					2240	\$13,440.00								
2104.503	REMOVE CONCRETE CURB	LIN FT	\$4.50	4306	\$19,377.00	4306	\$19,377.00														
2104.503	REMOVE CONCRETE PARKING STOPS	LIN FT	\$6.00	8	\$48.00	8	\$48.00														
2104.503	REMOVE RETAINING WALL	LIN FT	\$120.00	180	\$21,600.00	180	\$21,600.00														
2104.503	REMOVE CHAIN LINK FENCE	LIN FT	\$9.40	2485	\$23,359.00	2485	\$23,359.00														
2104.503	REMOVE CABLE GUARDRAIL	LIN FT	\$4.00	866	\$3,464.00	866	\$3,464.00														
2104.503	REMOVE GUARDRAIL-PLATE BEAM	LIN FT	\$7.50	162	\$1,215.00	162	\$1,215.00														
2104.503	REMOVE RAILROAD TRACK	LIN FT	\$75.00	180	\$13,500.00	180	\$13,500.00														
2104.503	SALVAGE CHAIN LINK FENCE	LIN FT	\$13.00	122	\$1,586.00	122	\$1,586.00														
2104.503	SALVAGE GUARDRAIL-CABLE	LIN FT	\$6.00	122	\$732.00	122	\$732.00														
2104.504	REMOVE PAVEMENT	SQ YD	\$10.00	2129	\$21,290.00	2129	\$21,290.00														
2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$14.00	256	\$3,584.00	256	\$3,584.00														
2104.504	REMOVE CONCRETE PAVEMENT	SQ YD	\$8.00	5890	\$47,120.00	5890	\$47,120.00														
2104.504	REMOVE CONCRETE APPROACH PANEL	SQ YD	\$26.00	240	\$6,240.00	240	\$6,240.00														
2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	\$6.00	685	\$4,110.00	685	\$4,110.00														
2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	\$5.00	7901	\$39,505.00	5818	\$29,090.00					2083	\$10,415.00								
2104.518	REMOVE RETAINING WALL	SQ FT	\$20.00	40	\$800.00	40	\$800.00														
2104.518	REMOVE BITUMINOUS WALK	SQ FT	\$1.30	712	\$925.60	712	\$925.60														
2104.518	REMOVE CONCRETE WALK	SQ FT	\$2.00	21401	\$42,802.00	11458	\$22,916.00					9943	\$19,886.00								

JACKSON ST (CSAH 55) - ENGINEER'S ESTIMATE																					
ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	PROJECT TOTAL		PARTICIPATING												NON-PARTICIPATING			
						JACKSON ST (CSAH 55)						MARYLAND AVE (CSAH 31)						WATER SYSTEM IMPROVEMENTS		SANITARY SEWER IMPROVEMENTS	
						RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL		RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL					
				QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
2104.601	REMOVE MISCELLANEOUS DEBRIS	LUMP SUM	\$750.00	1	\$750.00	1	\$750.00														
2104.602	REMOVE SIGN SPECIAL	EACH	\$1,000.00	1	\$1,000.00	1	\$1,000.00														
2104.602	SALVAGE SIGN PANEL SPECIAL	EACH	\$60.00	6	\$360.00	6	\$360.00														
2104.602	SALVAGE SURVEY MONUMENT	EACH	\$500.00	1	\$500.00	1	\$500.00														
2106.507	EXCAVATION - COMMON	CU YD	\$22.00	25056	\$551,232.00	23151	\$509,322.00					1905	\$41,910.00								
2106.507	EXCAVATION - CHANNEL AND POND	CU YD	\$24.00	22021	\$528,504.00	22021	\$528,504.00														
2106.507	SELECT GRANULAR EMBANKMENT (CV)	CU YD	\$33.00	21442	\$707,586.00	20107	\$663,531.00					1335	\$44,055.00								
2106.507	COMMON EMBANKMENT (CV)	CU YD	\$20.00	10556	\$211,120.00	10449	\$208,980.00					107	\$2,140.00								
2118.507	AGGREGATE SURFACING (CV) CLASS 1	CU YD	\$65.00	4	\$260.00	4	\$260.00														
2123.61	STREET SWEEPER WITH VACUUM PICKUP	HOURL	\$200.00	100	\$20,000.00	100	\$20,000.00														
2123.61	TRACTOR MOUNTED BACKHOE	HOURL	\$200.00	100	\$20,000.00	100	\$20,000.00														
2211.507	AGGREGATE BASE (CV) CLASS 6	CU YD	\$60.00	3971	\$238,260.00	3347	\$200,820.00					624	\$37,440.00								
2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	\$2.00	389	\$778.00	389	\$778.00														
2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	\$5.00	1928	\$9,640.00	1580	\$7,900.00				67	\$335.00	281	\$1,405.00							
2360.509	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	\$120.00	548	\$65,760.00	351	\$42,120.00				197	\$23,640.00									
2360.509	TYPE SP 12.5 WEARING COURSE MIX (4,C)	TON	\$105.00	3255	\$341,775.00	2615	\$274,575.00				106	\$11,130.00	534	\$56,070.00							
2360.509	TYPE SP 12.5 NON WEAR COURSE MIX (4,B)	TON	\$100.00	1835	\$183,500.00	1495	\$149,500.00				67	\$6,700.00	273	\$27,300.00							
2401.503	TYPE P-1 BARRIER CONCRETE (3S52)	LIN FT	\$210.00	129	\$27,090.00	129	\$27,090.00														
2401.518	SIDEWALK CONCRETE (3S52)	SQ FT	\$25.00	1198	\$29,950.00	1198	\$29,950.00														
2406.503	EXPANSION JOINTS; DESIGN E5	LIN FT	\$130.00	102	\$13,260.00	102	\$13,260.00														
2406.504	BRIDGE APPROACH PANELS	SQ YD	\$450.00	418	\$188,100.00	418	\$188,100.00														
2411.507	STRUCTURAL CONCRETE (1G52)	CU YD	\$650.00	152	\$98,800.00	152	\$98,800.00														
2411.507	STRUCTURAL CONCRETE (3B52)	CU YD	\$1,900.00	52	\$98,800.00	52	\$98,800.00														
2411.507	STRUCTURAL CONCRETE (3G52)	CU YD	\$850.00	173	\$147,050.00	173	\$147,050.00														
2411.508	REINFORCEMENT BARS	POUND	\$1.60	12380	\$19,808.00	12380	\$19,808.00														
2411.508	REINFORCEMENT BARS (EPOXY COATED)	POUND	\$1.80	31220	\$56,196.00	31220	\$56,196.00														
2442.501	REMOVE EXISTING BRIDGE A	LUMP SUM	\$200,000.00	1	\$200,000.00	1	\$200,000.00														
2442.501	REMOVE EXISTING BRIDGE B	LUMP SUM	\$150,000.00	1	\$150,000.00	1	\$150,000.00														
2442.501	REMOVE EXISTING BRIDGE C	LUMP SUM	\$75,000.00	1	\$75,000.00	1	\$75,000.00														
2451.507	FINE AGGREGATE BEDDING (CV)	CU YD	\$46.00	220	\$10,120.00			220	\$10,120.00												
2451.607	CRUSHED ROCK (3/4" CLEAR)	CU YD	\$40.00	12	\$480.00	12	\$480.00														
2451.607	MEDIUM FILTER AGGREGATE (CV)	CU YD	\$61.00	373	\$22,753.00	373	\$22,753.00														
2451.607	STRUCTURAL BACKFILL	CU YD	\$42.00	1335	\$56,070.00	1335	\$56,070.00														
2451.609	GRANULAR BACKFILL	TON	\$26.00	1547	\$40,222.00	1482	\$38,532.00												65	\$1,690.00	
2451.609	GRANULAR PIPE BEDDING	TON	\$40.00	43	\$1,720.00	17	\$680.00												26	\$1,040.00	
2475.503	ORNAMENTAL METAL RAILING	LIN FT	\$280.00	129	\$36,120.00	129	\$36,120.00														
2501.502	15" RC PIPE APRON	EACH	\$1,100.00	1	\$1,100.00			1	\$1,100.00												
2501.502	18" RC PIPE APRON	EACH	\$1,400.00	1	\$1,400.00			1	\$1,400.00												
2501.502	24" RC PIPE APRON	EACH	\$1,800.00	2	\$3,600.00			2	\$3,600.00												
2501.502	30" RC PIPE APRON	EACH	\$2,200.00	2	\$4,400.00			2	\$4,400.00												
2501.503	30" RC PIPE CULVERT DES 3006 CL IV	LIN FT	\$145.00	226	\$32,770.00			226	\$32,770.00												
2501.602	TRASH GUARD FOR 18" PIPE APRON	EACH	\$1,600.00	1	\$1,600.00			1	\$1,600.00												
2501.602	TRASH GUARD FOR 24" PIPE APRON	EACH	\$2,100.00	2	\$4,200.00			2	\$4,200.00												

JACKSON ST (CSAH 55) - ENGINEER'S ESTIMATE																					
ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	PROJECT TOTAL		PARTICIPATING												NON-PARTICIPATING			
						JACKSON ST (CSAH 55)						MARYLAND AVE (CSAH 31)						WATER SYSTEM IMPROVEMENTS		SANITARY SEWER IMPROVEMENTS	
						RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL		RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL					
				SAP 062-655-009		SAP 062-655-009		SAP 164-020-181		SAP 062-631-037		SAP 062-631-037		SAP 164-020-183		SAINT PAUL REGIONAL WATER		CITY OF SAINT PAUL SEWERS			
QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT		
2502.503	4" TP PIPE DRAIN	LIN FT	\$12.00	231	\$2,772.00	231	\$2,772.00														
2502.503	4" PERF TP PIPE DRAIN	LIN FT	\$15.00	5800	\$87,000.00	5358	\$80,370.00						442	\$6,630.00							
2502.503	8" PERF TP PIPE DRAIN	LIN FT	\$22.00	494	\$10,868.00	494	\$10,868.00														
2502.601	DRAINAGE SYSTEM	LUMP SUM	\$2,500.00	1	\$2,500.00	1	\$2,500.00														
2502.602	8" PE INSPECTION TEES	EACH	\$250.00	8	\$2,000.00	8	\$2,000.00														
2503.503	12" PVC PIPE SEWER	LIN FT	\$110.00	127	\$13,970.00	127	\$13,970.00														
2503.503	18" PVC PIPE SEWER	LIN FT	\$140.00	167	\$23,380.00														167	\$23,380.00	
2503.503	12" RC PIPE SEWER DES 3006 CL V	LIN FT	\$80.00	148	\$11,840.00			148	\$11,840.00												
2503.503	15" RC PIPE SEWER DES 3006 CL V	LIN FT	\$85.00	1460	\$124,100.00			1322	\$112,370.00						138	\$11,730.00					
2503.503	18" RC PIPE SEWER DES 3006 CL V	LIN FT	\$90.00	44	\$3,960.00			44	\$3,960.00												
2503.503	21" RC PIPE SEWER DES 3006 CL III	LIN FT	\$105.00	285	\$29,925.00			285	\$29,925.00												
2503.503	21" RC PIPE SEWER DES 3006 CL IV	LIN FT	\$105.00	86	\$9,030.00			86	\$9,030.00												
2503.503	24" RC PIPE SEWER DES 3006 CL III	LIN FT	\$115.00	371	\$42,665.00			371	\$42,665.00												
2503.503	30" RC PIPE SEWER DES 3006 CL III	LIN FT	\$140.00	18	\$2,520.00			18	\$2,520.00												
2503.601	TEMPORARY BYPASS SYSTEM	LUMP SUM	\$17,000.00	1	\$17,000.00	1	\$17,000.00														
2503.602	CONSTRUCT BULKHEAD	EACH	\$1,100.00	8	\$8,800.00	7	\$7,700.00						1	\$1,100.00							
2503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	\$1,900.00	21	\$39,900.00	1	\$1,900.00												20	\$38,000.00	
2503.602	CONNECT TO EXISTING STORM SEWER	EACH	\$1,700.00	14	\$23,800.00			13	\$22,100.00						1	\$1,700.00					
2503.602	18"X6" PVC WYE	EACH	\$1,400.00	1	\$1,400.00														1	\$1,400.00	
2503.603	PLUG FILL & ABANDON PIPE SEWER	LIN FT	\$28.00	22	\$616.00	22	\$616.00														
2503.603	CLEAN & VIDEO TAPE PIPE SEWER	LIN FT	\$7.00	3824	\$26,768.00	1326	\$9,282.00	2115	\$14,805.00				245	\$1,715.00	138	\$966.00					
2503.603	CLEAN & VIDEO TAPE PIPE SEWER SPECIAL	LIN FT	\$7.00	478	\$3,346.00	478	\$3,346.00														
2503.603	CLEAN AND TELEWISE SANITARY SEWER	LIN FT	\$8.00	2522	\$20,176.00														2522	\$20,176.00	
2503.604	2" POLYSTYRENE INSULATION	SQ YD	\$50.00	64	\$3,200.00			64	\$3,200.00												
2504.602	EXCAVATION FOR WATER MAIN OFFSET	EACH	\$800.00	3	\$2,400.00	3	\$2,400.00														
2504.602	HYDRANT	EACH	\$10,000.00	9	\$90,000.00	9	\$90,000.00														
2504.602	VALVE BOX	EACH	\$1,300.00	1	\$1,300.00	1	\$1,300.00														
2504.602	ADJUST VALVE BOX	EACH	\$650.00	10	\$6,500.00	10	\$6,500.00														
2504.602	REPAIR VALVE BOX	EACH	\$900.00	2	\$1,800.00	2	\$1,800.00														
2504.602	16" BUTTERFLY VALVE & BOX	EACH	\$28,000.00	3	\$84,000.00	3	\$84,000.00														
2504.602	20" BUTTERFLY VALVE & BOX	EACH	\$32,000.00	6	\$192,000.00	6	\$192,000.00														
2504.602	24" BUTTERFLY VALVE & BOX	EACH	\$38,000.00	2	\$76,000.00	2	\$76,000.00														
2504.602	30" BUTTERFLY VALVE & BOX	EACH	\$45,000.00	2	\$90,000.00	2	\$90,000.00														
2504.602	4" GATE VALVE & BOX	EACH	\$3,500.00	1	\$3,500.00																
2504.602	6" GATE VALVE & BOX	EACH	\$3,500.00	12	\$42,000.00	12	\$42,000.00											1	\$3,500.00		
2504.602	1" CORPORATION STOP	EACH	\$1,200.00	1	\$1,200.00	1	\$1,200.00														
2504.602	1.5" CORPORATION STOP	EACH	\$1,300.00	2	\$2,600.00	2	\$2,600.00														
2504.602	2" CORPORATION STOP	EACH	\$1,400.00	1	\$1,400.00	1	\$1,400.00														
2504.602	AIR VENT	EACH	\$500.00	1	\$500.00	1	\$500.00														
2504.602	1" TEMPORARY AIR VENT	EACH	\$450.00	1	\$450.00	1	\$450.00														
2504.602	CURB BOX	EACH	\$700.00	1	\$700.00	1	\$700.00														
2504.602	ADJUST CURB BOX	EACH	\$200.00	3	\$600.00	3	\$600.00														
2504.602	1.5" CURB STOP & BOX	EACH	\$1,700.00	1	\$1,700.00	1	\$1,700.00														
2504.602	2" CURB STOP & BOX	EACH	\$1,900.00	1	\$1,900.00	1	\$1,900.00														
2504.602	WATER UTILITY HOLE	EACH	\$400.00	6	\$2,400.00	6	\$2,400.00														
2504.602	SACRIFICIAL ANODE	EACH	\$500.00	14	\$7,000.00													14	\$7,000.00		
2504.602	SACRIFICIAL ANODE RETROFIT	EACH	\$500.00	4	\$2,000.00													4	\$2,000.00		
2504.602	30" CONCRETE X DUCTILE IRON COUPLING	EACH	\$700.00	2	\$1,400.00	2	\$1,400.00														

JACKSON ST (CSAH 55) - ENGINEER'S ESTIMATE																					
ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	PROJECT TOTAL		PARTICIPATING												NON-PARTICIPATING			
						JACKSON ST (CSAH 55)						MARYLAND AVE (CSAH 31)						WATER SYSTEM IMPROVEMENTS		SANITARY SEWER IMPROVEMENTS	
						RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL		RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL					
				SAP 062-655-009		SAP 062-655-009		SAP 164-020-181		SAP 062-631-037		SAP 062-631-037		SAP 164-020-183		SAINT PAUL REGIONAL WATER		CITY OF SAINT PAUL SEWERS			
				QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
2504.603	REMOVE WATER MAIN (ANY SIZE)	LIN FT	\$20.00	2769	\$55,380.00	2749	\$54,980.00										20	\$400.00			
2504.603	1" TYPE K COPPER PIPE	LIN FT	\$120.00	10	\$1,200.00	10	\$1,200.00														
2504.603	1.5" TYPE K COPPER PIPE	LIN FT	\$125.00	51	\$6,375.00	51	\$6,375.00														
2504.603	2" TYPE K COPPER PIPE	LIN FT	\$135.00	13	\$1,755.00	13	\$1,755.00														
2504.603	4" WATERMAIN DUCTILE IRON CL 53	LIN FT	\$170.00	41	\$6,970.00												41	\$6,970.00			
2504.603	6" WATERMAIN DUCTILE IRON CL 53	LIN FT	\$200.00	77	\$15,400.00	77	\$15,400.00														
2504.603	8" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$280.00	4	\$1,120.00	4	\$1,120.00														
2504.603	16" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$400.00	104	\$41,600.00	104	\$41,600.00														
2504.603	20" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$500.00	1328	\$664,000.00	1318	\$659,000.00										10	\$5,000.00			
2504.603	24" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$620.00	147	\$91,140.00	147	\$91,140.00														
2504.603	30" WATERMAIN DUCTILE IRON CL 52	LIN FT	\$750.00	313	\$234,750.00	313	\$234,750.00														
2504.603	20" INSULATED WATERMAIN	LIN FT	\$950.00	331	\$314,450.00	331	\$314,450.00														
2504.603	24" INSULATED WATERMAIN	LIN FT	\$1,100.00	662	\$728,200.00	662	\$728,200.00														
2504.604	2" POLYSTYRENE INSULATION	SQ YD	\$52.00	505	\$26,260.00	505	\$26,260.00														
2504.608	DUCTILE AND GREY IRON FITTINGS	POUND	\$22.00	58580	\$1,288,760.00	57855	\$1,272,810.00										725	\$15,950.00			
2506.502	CONST DRAINAGE STRUCTURE DESIGN SPEC 1	EACH	\$15,000.00	1	\$15,000.00			1	\$15,000.00												
2506.502	CONST DRAINAGE STRUCTURE DESIGN SPEC 2	EACH	\$18,000.00	1	\$18,000.00			1	\$18,000.00												
2506.502	CONST DRAINAGE STRUCTURE DESIGN SPEC 3	EACH	\$19,000.00	3	\$57,000.00			3	\$57,000.00												
2506.502	CONST DRAINAGE STRUCTURE DESIGN SPEC 5	EACH	\$255,000.00	1	\$255,000.00	1	\$255,000.00														
2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-48	LIN FT	\$840.00	4	\$3,360.00			4	\$3,360.00												
2506.503	CONST DRAINAGE STRUCTURE DESIGN SD-60	LIN FT	\$1,200.00	5	\$6,000.00			5	\$6,000.00												
2506.503	CONST DRAINAGE STRUCTURE DESIGN SPEC 4	LIN FT	\$900.00	150	\$135,000.00			140	\$126,000.00					10	\$9,000.00						
2506.503	CONST DRAINAGE STRUCTURE DES 48-4020	LIN FT	\$650.00	85	\$55,250.00			75	\$48,750.00					10	\$6,500.00						
2506.503	CONST DRAINAGE STRUCTURE DES 54-4020	LIN FT	\$800.00	44	\$35,200.00			44	\$35,200.00												
2506.602	CASTING ASSEMBLY	EACH	\$1,500.00	65	\$97,500.00	10	\$15,000.00	49	\$73,500.00			2	\$3,000.00	4	\$6,000.00						
2506.602	ADJUST FRAME & RING CASTING	EACH	\$1,300.00	21	\$27,300.00	18	\$23,400.00					3	\$3,900.00								
2506.602	VALVE BOX CLEANOUT	EACH	\$400.00	29	\$11,600.00	29	\$11,600.00														
2506.602	CONNECT INTO EXISTING DRAINAGE STRUCTURE	EACH	\$1,800.00	3	\$5,400.00			2	\$3,600.00					1	\$1,800.00						
2506.602	CONNECT INTO EXISTING STORM SEWER	EACH	\$1,600.00	2	\$3,200.00			2	\$3,200.00												
2506.602	CASTING ASSEMBLY SPECIAL	EACH	\$1,500.00	7	\$10,500.00	7	\$10,500.00														
2506.602	SANITARY SEWER CASTING ASSEMBLY	EACH	\$1,500.00	18	\$27,000.00	1	\$1,500.00												17	\$25,500.00	
2506.603	SANITARY STRUCTURE DESIGN SPECIAL	LIN FT	\$650.00	94	\$61,100.00	6	\$3,900.00												88	\$57,200.00	
2506.603	SANITARY STRUCTURE DESIGN SPECIAL 1	LIN FT	\$950.00	10	\$9,500.00														10	\$9,500.00	
2506.603	SANITARY STRUCTURE DESIGN SPECIAL 2	LIN FT	\$1,800.00	9	\$16,200.00														9	\$16,200.00	
2511.504	GEOTEXTILE FILTER TYPE 3	SQ YD	\$6.00	42	\$252.00			42	\$252.00												
2511.507	RANDOM RIPRAP CLASS II	CU YD	\$145.00	15	\$2,175.00			15	\$2,175.00												
2521.518	4" CONCRETE WALK	SQ FT	\$9.00	23474	\$211,266.00	10024	\$90,216.00			3976	\$35,784.00	9474	\$85,266.00								
2521.518	6" CONCRETE WALK	SQ FT	\$11.00	201	\$2,211.00	135	\$1,485.00					66	\$726.00								
2521.602	DRILL & GROUT REINF BAR (EPOXY COATED)	EACH	\$21.00	478	\$10,038.00	478	\$10,038.00														
2521.618	CONCRETE CURB RAMP WALK	SQ FT	\$16.00	3861	\$61,776.00	3788	\$60,608.00			73	\$1,168.00										
2531.503	CONCRETE CURB & GUTTER DESIGN B424	LIN FT	\$32.00	115	\$3,680.00	115	\$3,680.00														
2531.503	CONCRETE CURB & GUTTER DESIGN B612	LIN FT	\$31.00	173	\$5,363.00	173	\$5,363.00														
2531.503	CONCRETE CURB & GUTTER DESIGN B624	LIN FT	\$33.00	7249	\$239,217.00	5166	\$170,478.00					2083	\$68,739.00								
2531.504	8" CONCRETE DRIVEWAY PAVEMENT	SQ YD	\$115.00	548	\$63,020.00	548	\$63,020.00														

JACKSON ST (CSAH 55) - ENGINEER'S ESTIMATE

ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	PROJECT TOTAL		PARTICIPATING												NON-PARTICIPATING			
						JACKSON ST (CSAH 55)						MARYLAND AVE (CSAH 31)						WATER SYSTEM IMPROVEMENTS		SANITARY SEWER IMPROVEMENTS	
						RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL		RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL					
				QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
SAP 062-655-009		SAP 062-655-009		SAP 164-020-181		SAP 062-631-037		SAP 062-631-037		SAP 164-020-183		SAINT PAUL REGIONAL WATER		CITY OF SAINT PAUL SEWERS							
2531.603	CONCRETE SILL	LIN FT	\$12.00	1961	\$23,532.00	329	\$3,948.00					1632	\$19,584.00								
2531.603	CONCRETE CURB & GUTTER	LIN FT	\$46.00	566	\$26,036.00	566	\$26,036.00														
2531.603	CONCRETE CURB DESIGN V	LIN FT	\$72.00	16	\$1,152.00	16	\$1,152.00														
2531.618	TRUNCATED DOMES	SQ FT	\$70.00	539	\$37,730.00	528	\$36,960.00			11	\$770.00										
2533.503	PORTABLE PRECAST CONC BARRIER DES 8337	LIN FT	\$15.00	288	\$4,320.00	288	\$4,320.00														
2540.602	INSTALL SURVEY MONUMENT	EACH	\$1,000.00	1	\$1,000.00	1	\$1,000.00														
2545.502	LIGHTING UNIT TYPE SPECIAL	EACH	\$6,500.00	23	\$149,500.00					18	\$117,000.00					5	\$32,500.00				
2545.502	LIGHT FOUNDATION DESIGN SPECIAL	EACH	\$1,400.00	4	\$5,600.00					4	\$5,600.00										
2545.502	HANDHOLE	EACH	\$1,900.00	12	\$22,800.00					7	\$13,300.00					5	\$9,500.00				
2545.503	2" NON-METALLIC CONDUIT	LIN FT	\$16.00	6170	\$98,720.00					5190	\$83,040.00					980	\$15,680.00				
2545.503	3" NON-METALLIC CONDUIT	LIN FT	\$18.00	460	\$8,280.00					80	\$1,440.00					380	\$6,840.00				
2545.503	UNDERGROUND WIRE 1/C 6 AWG	LIN FT	\$3.00	19890	\$59,670.00					15810	\$47,430.00					4080	\$12,240.00				
2545.503	UNDERGROUND WIRE 1/C (BARE) 8 AWG	LIN FT	\$2.50	6630	\$16,575.00					5270	\$13,175.00					1360	\$3,400.00				
2550.503	2" NON-METALLIC CONDUIT	LIN FT	\$7.00	2623	\$18,361.00	2623	\$18,361.00														
2550.503	4" NON-METALLIC CONDUIT	LIN FT	\$19.00	154	\$2,926.00	154	\$2,926.00														
2550.503	POWER CABLE 1 CONDUCTOR NO 10	LIN FT	\$2.00	2623	\$5,246.00	2623	\$5,246.00														
2550.601	FIBER OPTIC CABLE TESTING	LUMP SUM	\$13,000.00	1	\$13,000.00	1	\$13,000.00														
2550.602	FIBER OPTIC SPLICE / PATCH PANEL	EACH	\$5,000.00	4	\$20,000.00	4	\$20,000.00														
2550.602	FIBER OPTIC PIGTAIL TERMINATION	EACH	\$1,600.00	5	\$8,000.00	5	\$8,000.00														
2550.602	INDOOR PATCHCORD	EACH	\$50.00	2	\$100.00	2	\$100.00														
2550.602	PULL VAULT	EACH	\$2,800.00	7	\$19,600.00	7	\$19,600.00														
2550.603	REROUTE CABLE	LIN FT	\$7.00	284	\$1,988.00	284	\$1,988.00														
2550.603	FIBER OPTIC TRUNK CABLE 24SM	LIN FT	\$5.00	2623	\$13,115.00	2623	\$13,115.00														
2550.603	2" BORED CONDUIT	LIN FT	\$21.00	140	\$2,940.00							140	\$2,940.00								
2550.603	4" BORED CONDUIT	LIN FT	\$33.00	110	\$3,630.00	110	\$3,630.00														
2554.502	GUIDE POST TYPE B	EACH	\$95.00	6	\$570.00			6	\$570.00												
2554.603	INSTALL GUARDRAIL-CABLE	LIN FT	\$30.00	122	\$3,660.00	122	\$3,660.00														
2557.502	VEHICULAR GATE-DOUBLE	EACH	\$1,500.00	5	\$7,500.00	5	\$7,500.00														
2557.503	WIRE FENCE DESIGN SPECIAL	LIN FT	\$70.00	149	\$10,430.00	149	\$10,430.00														
2557.503	WIRE FENCE DESIGN 72-9322	LIN FT	\$38.00	402	\$15,276.00	402	\$15,276.00														
2557.503	WIRE FENCE DESIGN 72-9322 SPECIAL	LIN FT	\$48.00	2210	\$106,080.00	2210	\$106,080.00														
2557.602	INSTALL VEHICULAR GATE	EACH	\$3,500.00	1	\$3,500.00	1	\$3,500.00														
2557.603	TEMPORARY FENCE DESIGN SPECIAL	LIN FT	\$35.00	2424	\$84,840.00	2424	\$84,840.00														
2557.603	INSTALL CHAIN LINK FENCE	LIN FT	\$30.00	122	\$3,660.00	122	\$3,660.00														
2563.601	TRAFFIC CONTROL SUPERVISOR	LUMP SUM	\$60,000.00	1	\$60,000.00	1	\$60,000.00														
2563.601	TRAFFIC CONTROL	LUMP SUM	\$80,000.00	1	\$80,000.00	0.85	\$68,000.00	0.05	\$4,000.00	0.03	\$2,400.00	0.04	\$3,200.00			0.01	\$800.00			0.02	\$1,600.00
2563.601	ALTERNATE PEDESTRIAN ROUTE	LUMP SUM	\$20,000.00	1	\$20,000.00	1	\$20,000.00														
2563.610	RAILROAD FLAGGING AND PROTECTIVE SERVICES	HOUR	\$500.00	40	\$20,000.00	40	\$20,000.00														
2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	\$65.00	10	\$650.00	10	\$650.00														
2563.615	TEMPORARY IMPACT ATTENUATOR	ASSEMBLY	\$3,000.00	4	\$12,000.00	4	\$12,000.00														
2564.502	INSTALL SIGN	EACH	\$700.00	3	\$2,100.00	3	\$2,100.00														
2564.502	INFILTRATION AREA MARKER	EACH	\$250.00	5	\$1,250.00	5	\$1,250.00														
2564.502	DELINEATOR / MARKER	EACH	\$210.00	3	\$630.00	3	\$630.00														
2564.502	DELINEATOR / MARKER PANEL	EACH	\$110.00	8	\$880.00	5	\$550.00					3	\$330.00								
2564.518	SIGN	SQ FT	\$78.00	206	\$16,068.00	113	\$8,814.00					93	\$7,254.00								
2564.518	SIGN PANEL	SQ FT	\$52.00	73	\$3,796.00	59	\$3,068.00					14	\$728.00								
2564.602	INSTALL SIGN PANEL SPECIAL	EACH	\$250.00	6	\$1,500.00	6	\$1,500.00														

JACKSON ST (CSAH 55) - ENGINEER'S ESTIMATE																					
ITEM NO.	ITEM DESCRIPTION	UNIT	UNIT PRICE	PROJECT TOTAL		PARTICIPATING										NON-PARTICIPATING					
						JACKSON ST (CSAH 55)						MARYLAND AVE (CSAH 31)						WATER SYSTEM IMPROVEMENTS		SANITARY SEWER IMPROVEMENTS	
						RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL		RAMSEY COUNTY (ROADWAY)		RAMSEY COUNTY (STORM SEWER)		CITY OF SAINT PAUL					
				QUANTITY	AMOUNT	SAP 062-655-009		SAP 062-655-009		SAP 164-020-181		SAP 062-631-037		SAP 062-631-037		SAP 164-020-183		SAINT PAUL REGIONAL WATER		CITY OF SAINT PAUL SEWERS	
						QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT	QUANTITY	AMOUNT
2565.516	TRAFFIC CONTROL SIGNAL SYSTEM A	SYSTEM	\$450,000.00	1	\$450,000.00	1	\$450,000.00														
2565.516	TRAFFIC CONTROL SIGNAL SYSTEM B	SYSTEM	\$450,000.00	1	\$450,000.00	1	\$450,000.00														
2571.502	DECIDUOUS TREE 1.5" CAL B&B	EACH	\$780.00	43	\$33,540.00	43	\$33,540.00														
2571.502	DECIDUOUS TREE 2" CAL B&B	EACH	\$850.00	31	\$26,350.00	31	\$26,350.00														
2571.602	TREE PROTECTION	EACH	\$125.00	1	\$125.00	1	\$125.00														
2573.501	STABILIZED CONSTRUCTION EXIT	LUMP SUM	\$8,000.00	1	\$8,000.00	1	\$8,000.00														
2573.501	EROSION CONTROL SUPERVISOR	LUMP SUM	\$10,000.00	1	\$10,000.00	1	\$10,000.00														
2573.502	STORM DRAIN INLET PROTECTION	EACH	\$210.00	80	\$16,800.00	72	\$15,120.00					8	\$1,680.00								
2573.502	FLOCCULANT SOCK	EACH	\$350.00	8	\$2,800.00	8	\$2,800.00														
2573.502	CULVERT END CONTROLS	EACH	\$190.00	3	\$570.00	3	\$570.00														
2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	LIN FT	\$2.80	2757	\$7,719.60	2757	\$7,719.60														
2574.505	SUBSOILING	ACRE	\$250.00	2	\$500.00	1.9	\$475.00					0.1	\$25.00								
2574.505	SOIL BED PREPARATION	ACRE	\$220.00	5.6	\$1,232.00	5.4	\$1,188.00					0.2	\$44.00								
2574.507	FILTER TOPSOIL BORROW	CU YD	\$55.00	516	\$28,380.00	516	\$28,380.00														
2574.507	BOULEVARD TOPSOIL BORROW	CU YD	\$48.00	58	\$2,784.00	58	\$2,784.00														
2574.508	FERTILIZER TYPE 1	POUND	\$1.20	660	\$792.00	622	\$746.40					38	\$45.60								
2574.508	FERTILIZER TYPE 3	POUND	\$1.00	520	\$520.00	520	\$520.00														
2574.508	FERTILIZER TYPE 4	POUND	\$1.40	31	\$43.40	31	\$43.40														
2574.601	INFILTRATION TESTING	LUMP SUM	\$10,000.00	1	\$10,000.00	1	\$10,000.00														
2575.504	ROLLED EROSION PREVENTION CATEGORY 10	SQ YD	\$2.40	1258	\$3,019.20	1258	\$3,019.20														
2575.504	ROLLED EROSION PREVENTION CATEGORY 20	SQ YD	\$1.80	9344	\$16,819.20	9154	\$16,477.20					190	\$342.00								
2575.505	SEEDING	ACRE	\$330.00	3.6	\$1,188.00	3.5	\$1,155.00					0.1	\$33.00								
2575.508	HYDRAULIC BONDED FIBER MATRIX	POUND	\$1.30	6604	\$8,585.20	6219	\$8,084.70					385	\$500.50								
2575.523	RAPID STABILIZATION METHOD 3	M GALLON	\$450.00	21.6	\$9,720.00	21	\$9,450.00					0.6	\$270.00								
2575.608	SEED SOUTHERN BOULEVARD	POUND	\$6.00	224	\$1,344.00	212	\$1,272.00					12	\$72.00								
2575.608	SEED TURFGRASS	POUND	\$3.20	96	\$307.20	90	\$288.00					6	\$19.20								
2575.608	SEED SOUTHERN TALLGRASS ROADSIDE	POUND	\$35.00	44	\$1,540.00	44	\$1,540.00														
2581.503	4" REMOVABLE PREFORM PAVEMENT MARKING TAPE	LIN FT	\$2.00	4856	\$9,712.00	288	\$576.00					4568	\$9,136.00								
2581.503	6" REMOVABLE PREFORM PAVEMENT MARKING TAPE	LIN FT	\$2.30	12553	\$28,871.90	2191	\$5,039.30					10362	\$23,832.60								
2581.603	REMOVABLE PREFORMED PLASTIC MASK (BLACK)	LIN FT	\$2.50	5129	\$12,822.50	2507	\$6,267.50					2622	\$6,555.00								
2582.503	4" SOLID LINE PAINT	LIN FT	\$0.20	536	\$107.20							536	\$107.20								
2582.503	4" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	\$1.00	9322	\$9,322.00	6032	\$6,032.00					3290	\$3,290.00								
2582.503	6" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	\$1.40	36	\$50.40							36	\$50.40								
2582.503	24" SOLID LINE MULTI COMP GR IN (WR)	LIN FT	\$22.00	200	\$4,400.00	124	\$2,728.00					76	\$1,672.00								
2582.503	4" BROKEN LINE MULTI COMP GR IN (WR)	LIN FT	\$1.40	32	\$44.80							32	\$44.80								
2582.503	4" DOTTED LINE MULTI COMP GR IN (WR)	LIN FT	\$1.40	75	\$105.00							75	\$105.00								
2582.503	4" DBLE SOLID LINE MULTI COMP GR IN (WR)	LIN FT	\$2.80	4031	\$11,286.80	780	\$2,184.00					3251	\$9,102.80								
2582.503	24" SOLID LINE PREF THERMO GR IN	LIN FT	\$26.00	106	\$2,756.00	60	\$1,560.00					46	\$1,196.00								
2582.518	PAVT MSSG PREF THERMO GR IN	SQ FT	\$32.00	216	\$6,912.00	86	\$2,752.00					130	\$4,160.00								
2582.518	CROSSWALK PREF THERMO GR IN	SQ FT	\$20.00	1040	\$20,800.00	720	\$14,400.00					320	\$6,400.00								
TOTAL					\$14,129,047.00	TOTAL	\$11,966,409.90	TOTAL	\$765,712.00	TOTAL	\$405,412.00	TOTAL	\$582,979.10	TOTAL	\$37,696.00	TOTAL	\$100,460.00	TOTAL	\$40,820.00	TOTAL	\$229,558.00

TIME: 8:27:37 AM

PLOT NAME: cd062655010_300drp_N
PATH & FILENAME: Projects\in-z\RamseyCounty\18492000-ORD\04_Production\01_CAD\Hydraulics\Sheets\cd062655010_300drp_N.dgn

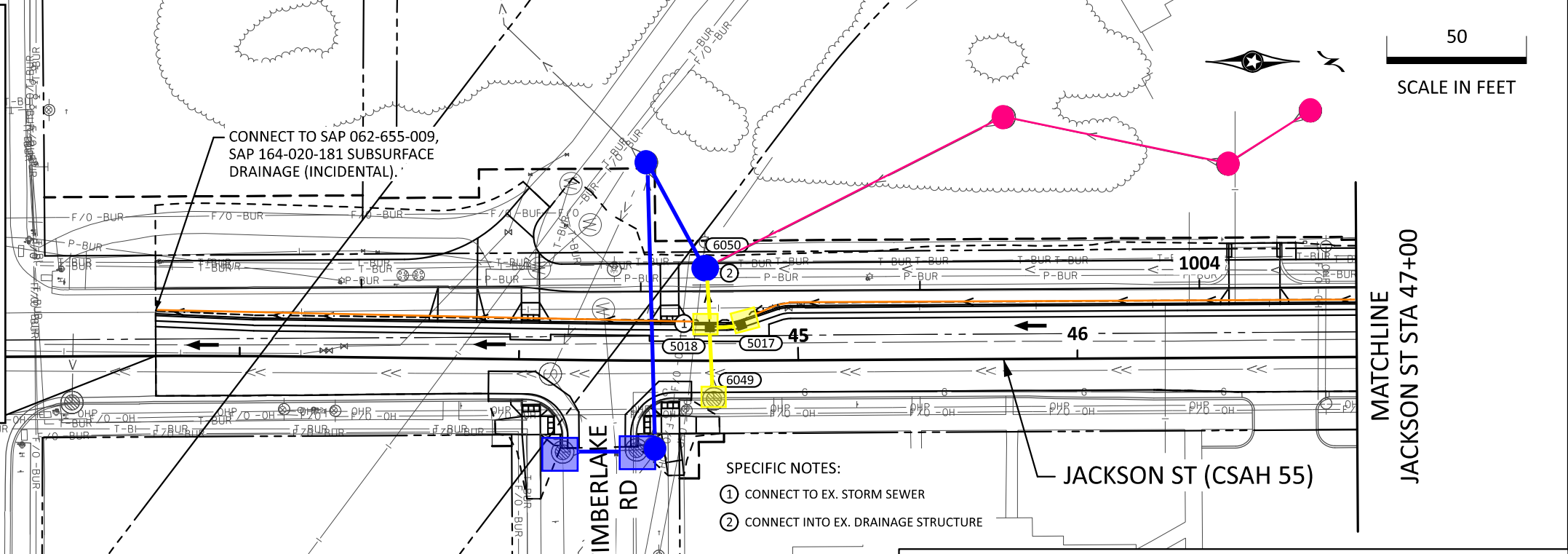
● St Paul Storm

● Ramsey Co. Storm

● Ramsey Co 4" Drain Tile

● Private

BEGIN SAP 062-655-013
BEGIN SAP 164-020-179
JACKSON ST (CSAH 55)
STA. 42+70.00



GENERAL NOTES:
1. PROTECT EXISTING UTILITIES (INCIDENTAL). SEE EXISTING TOPOGRAPHY AND UTILITIES PLANS FOR UTILITIES TO BE RELOCATED. MANHOLE CASTINGS OUTSIDE OF CONSTRUCTION LIMITS SHALL NOT BE IMPACTED OR BURIED DURING CONSTRUCTION.
2. SEE DRAINAGE DETAILS AND DRAINAGE TABULATION SHEETS FOR ADDITIONAL STORM SEWER INFORMATION.
3. UTILITY CROSSINGS ARE SHOWN AT ASSUMED DEPTHS UNLESS OTHERWISE NOTED.

- SPECIFIC NOTES:**
- ① CONNECT TO EX. STORM SEWER
 - ② CONNECT INTO EX. DRAINAGE STRUCTURE

--- EXISTING RIGHT-OF-WAY

--- TEMPORARY EASEMENT

--- CONSTRUCTION LIMITS

--- EXISTING STORM SEWER

--- PROPOSED STORM SEWER

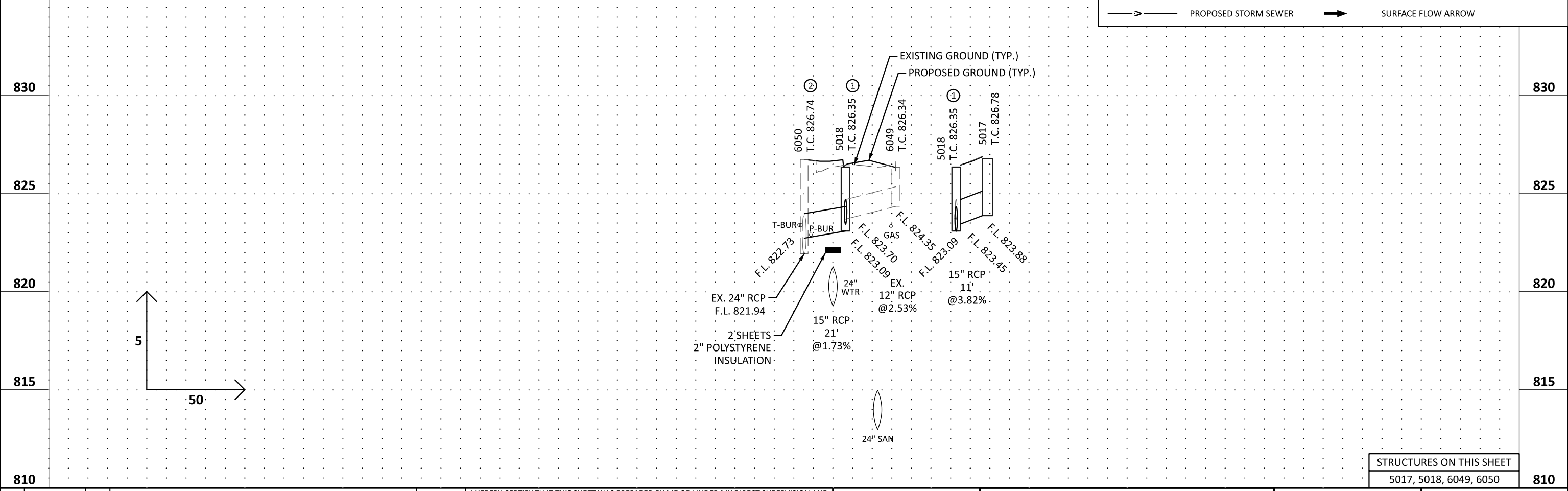
--- PROPOSED DRAIN TILE

● / ■ EXISTING/PROPOSED CATCH BASIN

● / ○ EXISTING/PROPOSED MANHOLE

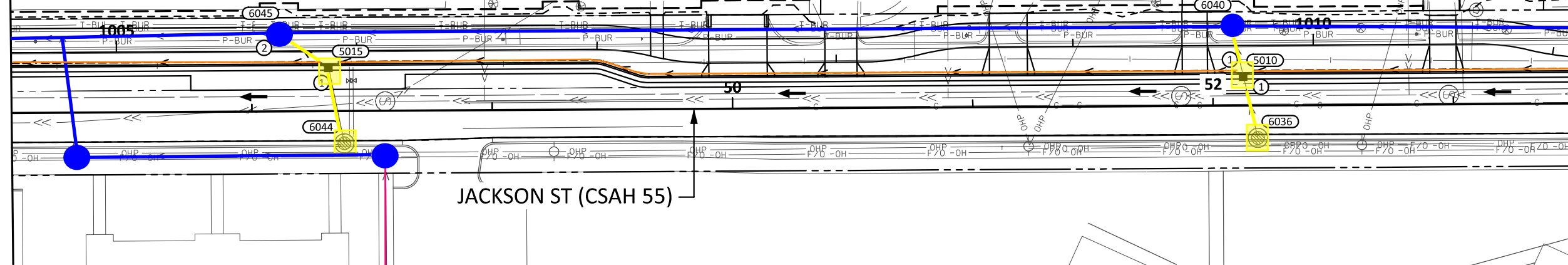
XXXX STORM SEWER STRUCTURE

→ SURFACE FLOW ARROW



STRUCTURES ON THIS SHEET	
5017, 5018, 6049, 6050	

				DES: EMC	I HEREBY CERTIFY THAT THIS SHEET 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		ALLIANT	DRAINAGE PLANS AND PROFILES	JACKSON ST (CSAH 55)	SHEET NO.	53
				DRW: EMC					SAP 062-655-013	TOTAL SHEETS	108
				CHK: CJF					SAP 164-020-179		
NO.	DATE	BY	DESCRIPTION OF REVISIONS		SIGNATURE: _____	LIC. NO. _____	DATE: _____				



MATCHLINE
JACKSON ST STA 53+50

SPECIFIC NOTES:

- ① CONNECT TO EX. STORM SEWER
- ② CONNECT INTO EX. DRAINAGE STRUCTURE

50

SCALE IN FEET

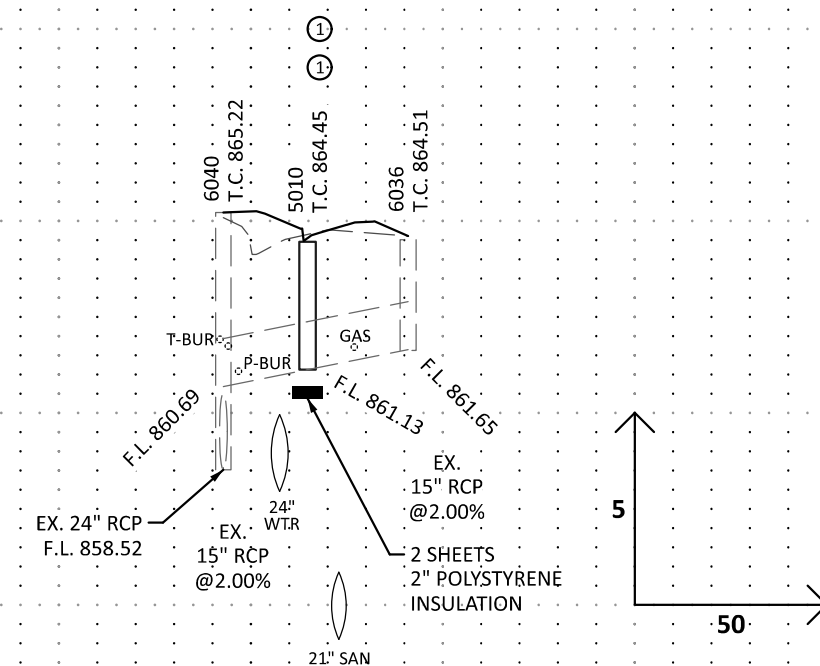
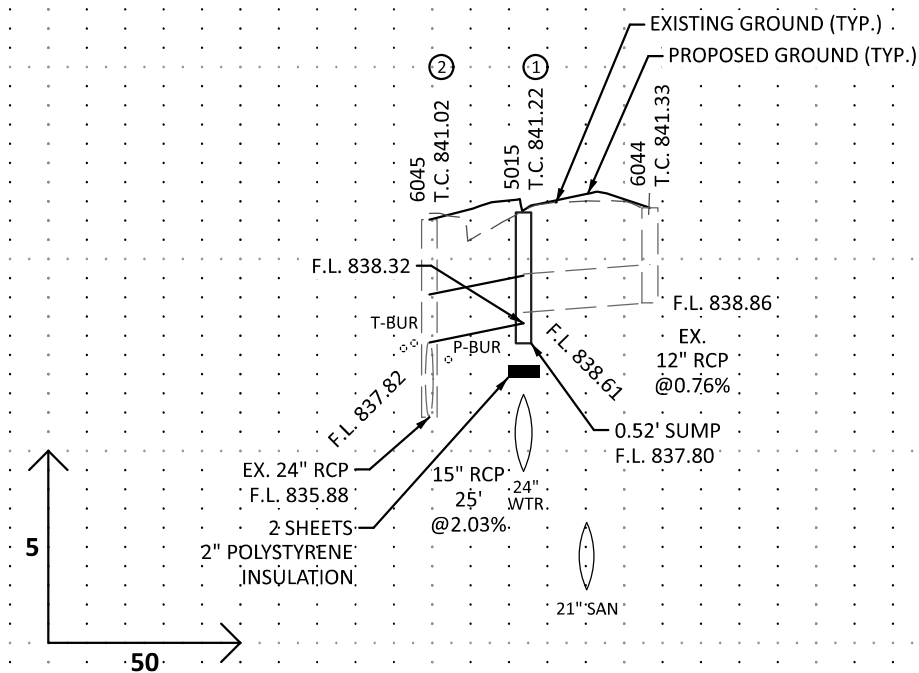
JACKSON ST (CSAH 55)

GENERAL NOTES:

1. PROTECT EXISTING UTILITIES (INCIDENTAL). SEE EXISTING TOPOGRAPHY AND UTILITIES PLANS FOR UTILITIES TO BE RELOCATED. MANHOLE CASTINGS OUTSIDE OF CONSTRUCTION LIMITS SHALL NOT BE IMPACTED OR BURIED DURING CONSTRUCTION.
2. SEE DRAINAGE DETAILS AND DRAINAGE TABULATION SHEETS FOR ADDITIONAL STORM SEWER INFORMATION.
3. UTILITY CROSSINGS ARE SHOWN AT ASSUMED DEPTHS UNLESS OTHERWISE NOTED.

LEGEND

- | | | | |
|---|-----------------------|---|-------------------------------|
|  | EXISTING RIGHT-OF-WAY |  | PROPOSED DRAIN TILE |
|  | TEMPORARY EASEMENT |  | EXISTING/PROPOSED CATCH BASIN |
|  | CONSTRUCTION LIMITS |  | EXISTING/PROPOSED MANHOLE |
|  | EXISTING STORM SEWER |  | STORM SEWER STRUCTURE |
|  | PROPOSED STORM SEWER |  | SURFACE FLOW ARROW |



STRUCTURES ON THIS SHEET

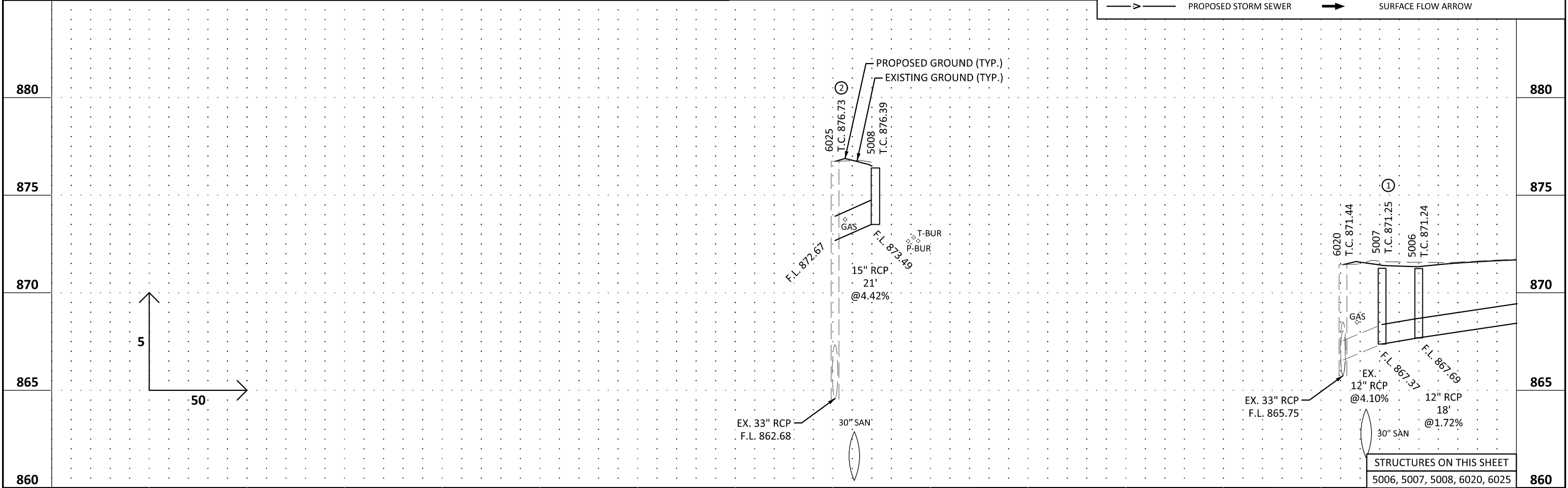
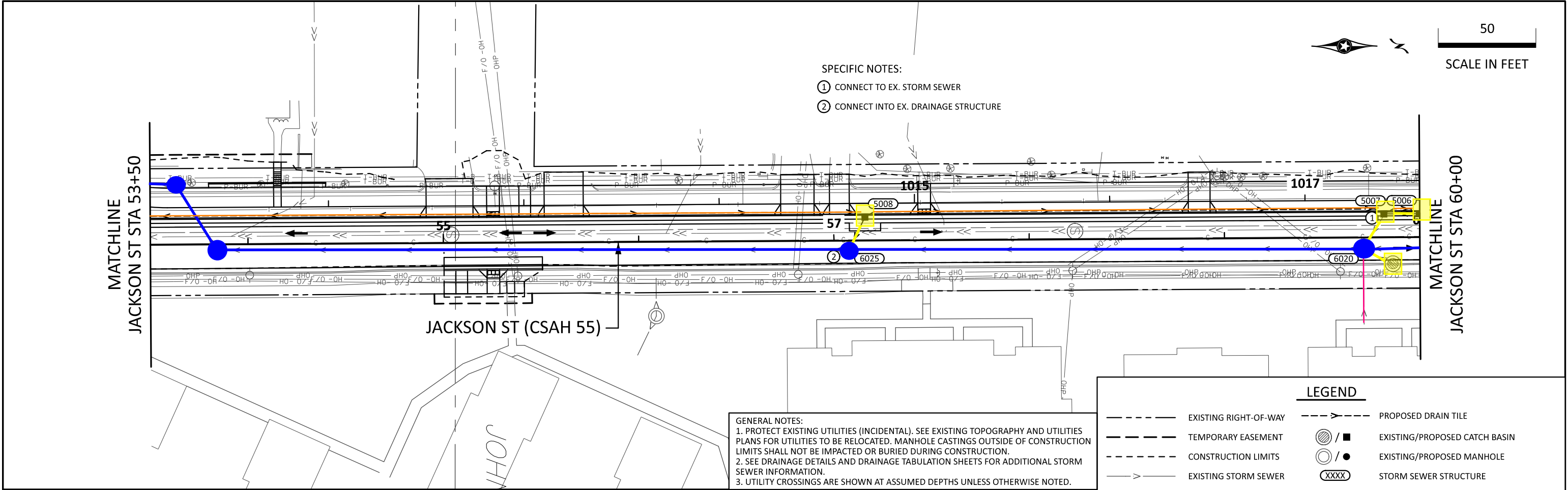
5010, 5015, 6036, 6040, 6044
6045

				DES: EMC	I HEREBY CERTIFY THAT THIS SHEET 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	 ALLIANT	DRAINAGE PLANS AND PROFILES	JACKSON ST (CSAH 55)	SHEET NO.	54
				DRW: EMC				SAP 062-655-013	TOTAL SHEETS	108
NO.	DATE	BY	DESCRIPTION OF REVISIONS	CHK: CJF				SIGNATURE: _____ LIC. NO. _____ DATE: _____		

PLOT NAME: cd062655010_300drp_N
PATH & FILENAME: Projects\in-z\RamseyCounty\18492000-ORD\04_Production\01_CAD\Hydraulics\Sheets\cd062655010_300drp_N.dgn

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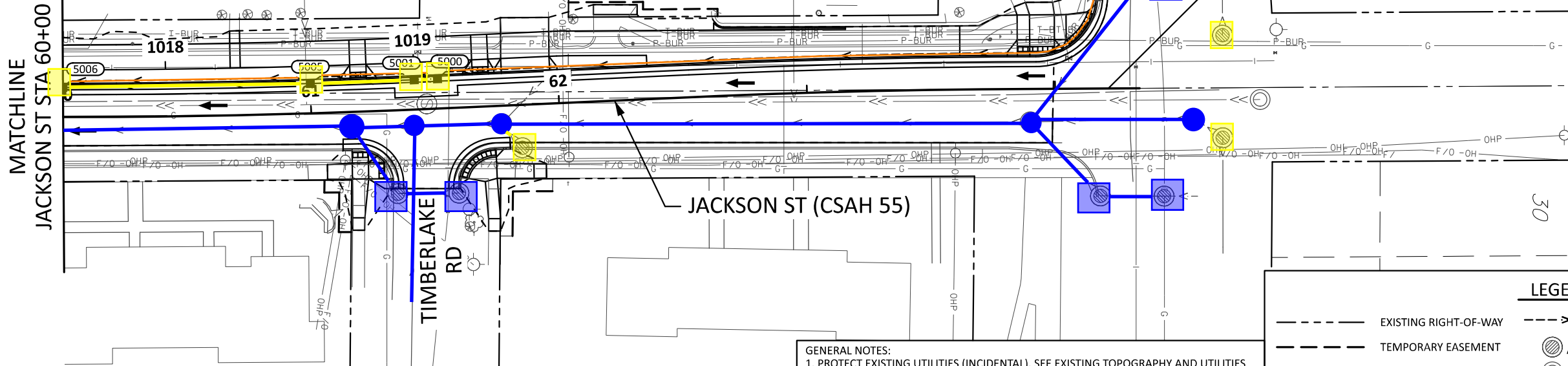
PLOTTED: 21-JAN-2026



				DES: EMC	I HEREBY CERTIFY THAT THIS SHEET 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			 ALLIANT	DRAINAGE PLANS AND PROFILES		JACKSON ST (CSAH 55)		SHEET NO.	55
				DRW: EMC							SAP 062-655-013		TOTAL SHEETS	108
				CHK: CJF							SAP 164-020-179			
NO.	DATE	BY	DESCRIPTION OF REVISIONS		SIGNATURE: _____	LIC. NO. _____	DATE: _____							

PLOT NAME: cd062655010_300drp_N
PATH & FILENAME: Projects\in-z\RamseyCounty\18492000-ORD\04_Production\01_CAD\Hydraulics\Sheets\cd062655010_300drp_N.dgn
PLOTTED: 21-JAN-2026
TIME: 8:27:39 AM

MATCHLINE
JACKSON ST STA 60+00



50
SCALE IN FEET

END SAP 062-655-013
END SAP 164-020-179
JACKSON ST (CSAH 55)
STA. 64+21.44

JACKSON ST (CSAH 55)

TIMBERLAKE
RD

WHEELLOCK
PKWY

GENERAL NOTES:

1. PROTECT EXISTING UTILITIES (INCIDENTAL). SEE EXISTING TOPOGRAPHY AND UTILITIES PLANS FOR UTILITIES TO BE RELOCATED. MANHOLE CASTINGS OUTSIDE OF CONSTRUCTION LIMITS SHALL NOT BE IMPACTED OR BURIED DURING CONSTRUCTION.
2. SEE DRAINAGE DETAILS AND DRAINAGE TABULATION SHEETS FOR ADDITIONAL STORM SEWER INFORMATION.
3. UTILITY CROSSINGS ARE SHOWN AT ASSUMED DEPTHS UNLESS OTHERWISE NOTED.

LEGEND

- | | | | |
|-----|-----------------------|-------|-------------------------------|
| --- | EXISTING RIGHT-OF-WAY | --- | PROPOSED DRAIN TILE |
| --- | TEMPORARY EASEMENT | ⊗ / ■ | EXISTING/PROPOSED CATCH BASIN |
| --- | CONSTRUCTION LIMITS | ⊙ / ● | EXISTING/PROPOSED MANHOLE |
| --- | EXISTING STORM SEWER | XXXX | STORM SEWER STRUCTURE |
| --- | PROPOSED STORM SEWER | → | SURFACE FLOW ARROW |

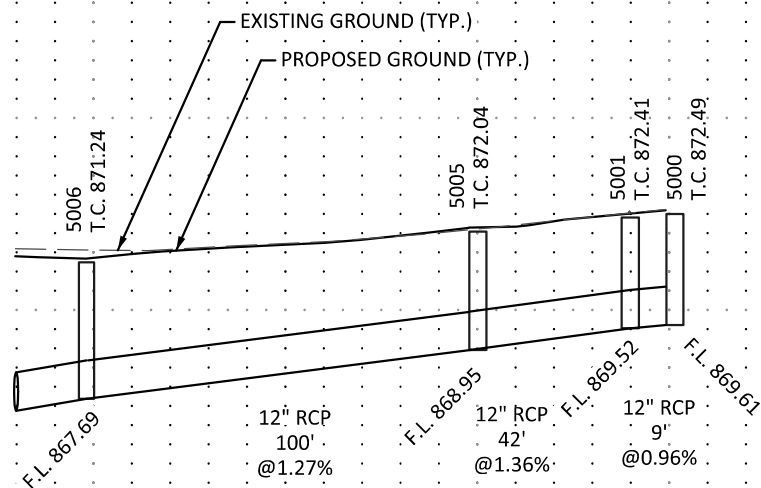
880

875

870

865

860



880

875

870

865

860

STRUCTURES ON THIS SHEET

5000, 5001, 5005, 5006

DES: EMC

DRW: EMC

CHK: CJF

I HEREBY CERTIFY THAT THIS SHEET 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

SIGNATURE: _____ LIC. NO. _____ DATE: _____



DRAINAGE PLANS AND PROFILES

JACKSON ST (CSAH 55)

SAP 062-655-013
SAP 164-020-179

SHEET NO.

56

TOTAL SHEETS

108

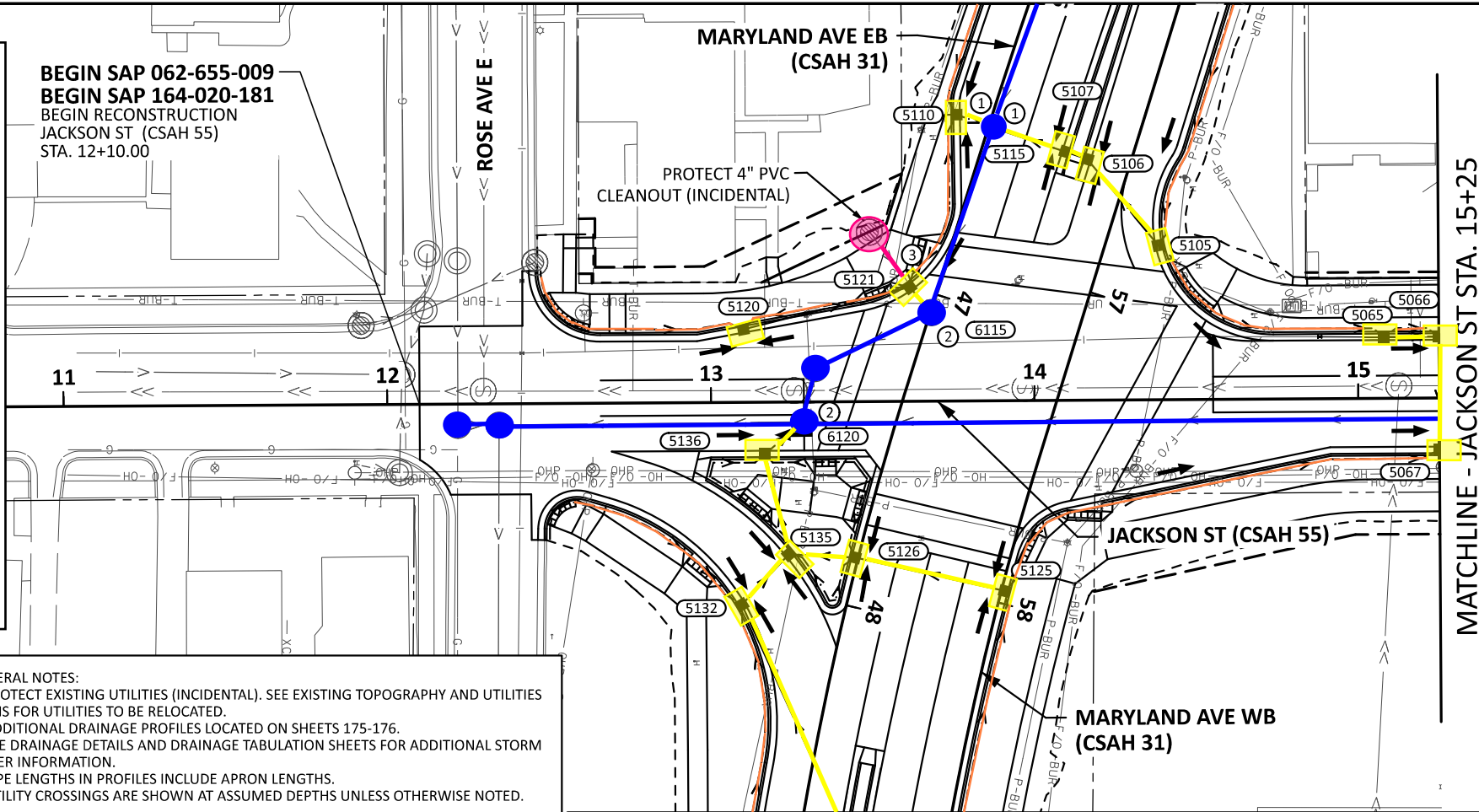
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PLOTTED: 14-JAN-2026
TIME: 3:57:43 PM

- St Paul Storm
- Ramsey Co. Storm
- Ramsey Co 4" Drain Tile
- Private
- Capitol Region Watershed

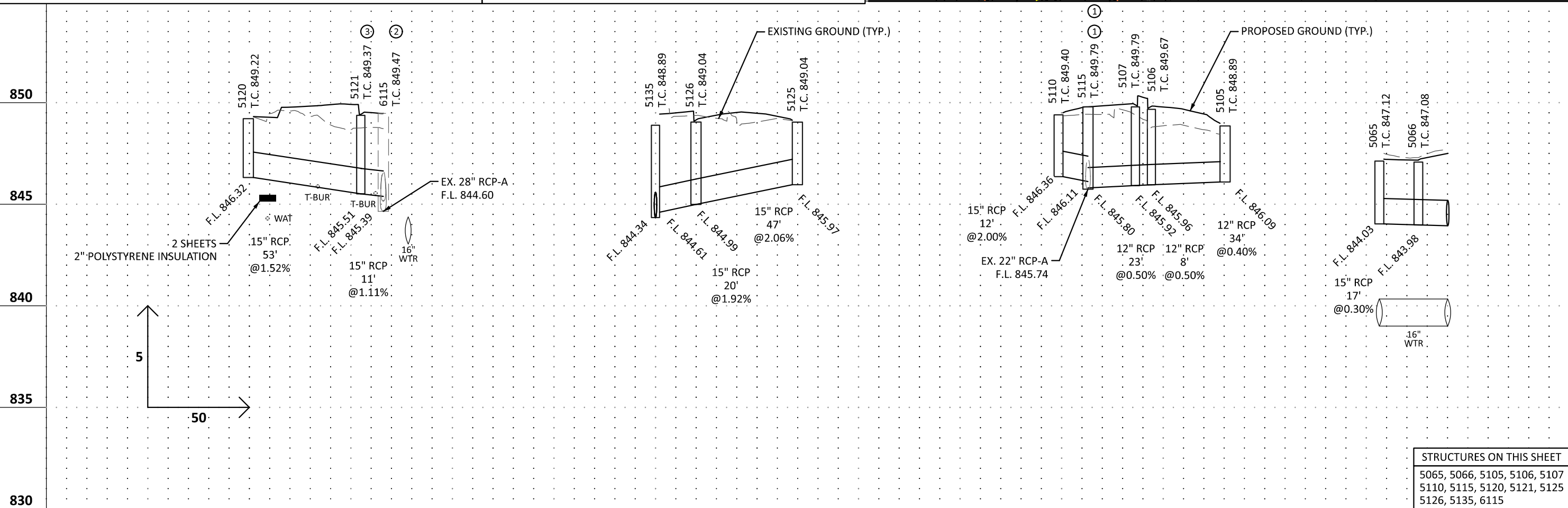
- EXISTING RIGHT-OF-WAY
- TEMPORARY EASEMENT
- CONSTRUCTION LIMITS
- SURFACE FLOW ARROW
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING/PROPOSED APRON
- EXISTING/PROPOSED CATCH BASIN
- EXISTING/PROPOSED MANHOLE
- STORM SEWER STRUCTURE/APRON NUMBER
- RANDOM RIPRAP

- GENERAL NOTES:
1. PROTECT EXISTING UTILITIES (INCIDENTAL). SEE EXISTING TOPOGRAPHY AND UTILITIES PLANS FOR UTILITIES TO BE RELOCATED.
 2. ADDITIONAL DRAINAGE PROFILES LOCATED ON SHEETS 175-176.
 3. SEE DRAINAGE DETAILS AND DRAINAGE TABULATION SHEETS FOR ADDITIONAL STORM SEWER INFORMATION.
 4. PIPE LENGTHS IN PROFILES INCLUDE APRON LENGTHS.
 5. UTILITY CROSSINGS ARE SHOWN AT ASSUMED DEPTHS UNLESS OTHERWISE NOTED.

BEGIN SAP 062-655-009
BEGIN SAP 164-020-181
BEGIN RECONSTRUCTION
JACKSON ST (CSAH 55)
STA. 12+10.00



MATCHLINE - JACKSON ST STA. 15+25

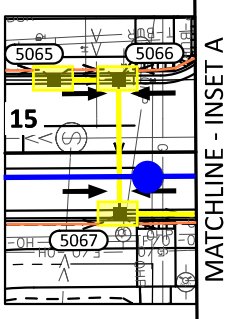


STRUCTURES ON THIS SHEET	
5065, 5066, 5105, 5106, 5107	
5110, 5115, 5120, 5121, 5125	
5126, 5135, 6115	

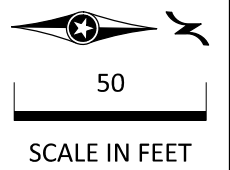
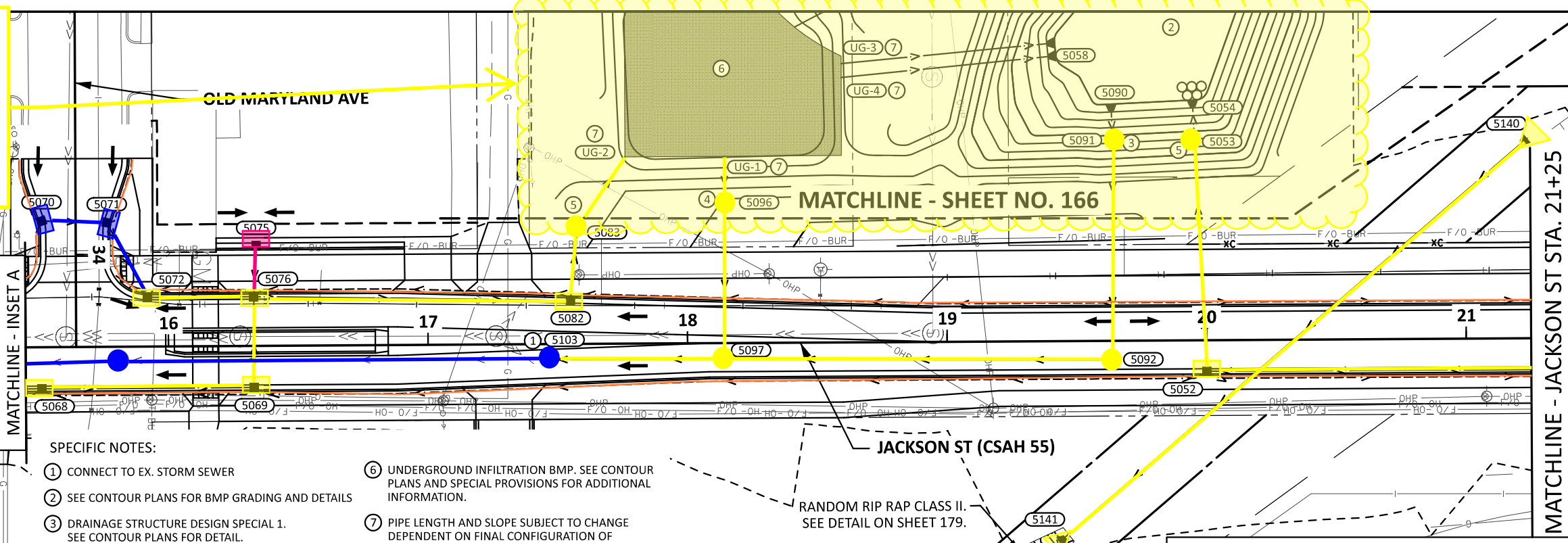
				DES: EMC	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	SIGNATURE: _____ PRINTED NAME: _____ LIC. NO. _____ DATE: _____		DRAINAGE PLAN AND PROFILE	JACKSON ST (CSAH 55)		SHEET NO. 166
				DRW: EMC					SAP 164-020-181, SAP 164-020-183 SAP 062-655-009, SAP 062-631-037		TOTAL SHEETS 271
NO.	DATE	BY	DESCRIPTION OF REVISIONS	CHK: CJF							

Ramsey's BMP
100% Own and
Maintained

PLOT NAME: cd062655010_300drp_S-a
PATH & FILENAME: Projects\in-z\RamseyCounty\18492000-ORD\04_Production\01_CAD\Hydraulics\Sheets\cd062655010_300drp_S-a.dgn
PLOTTED: 14-JAN-2026
TIME: 3:57:44 PM



MATCHLINE - JACKSON ST STA. 1



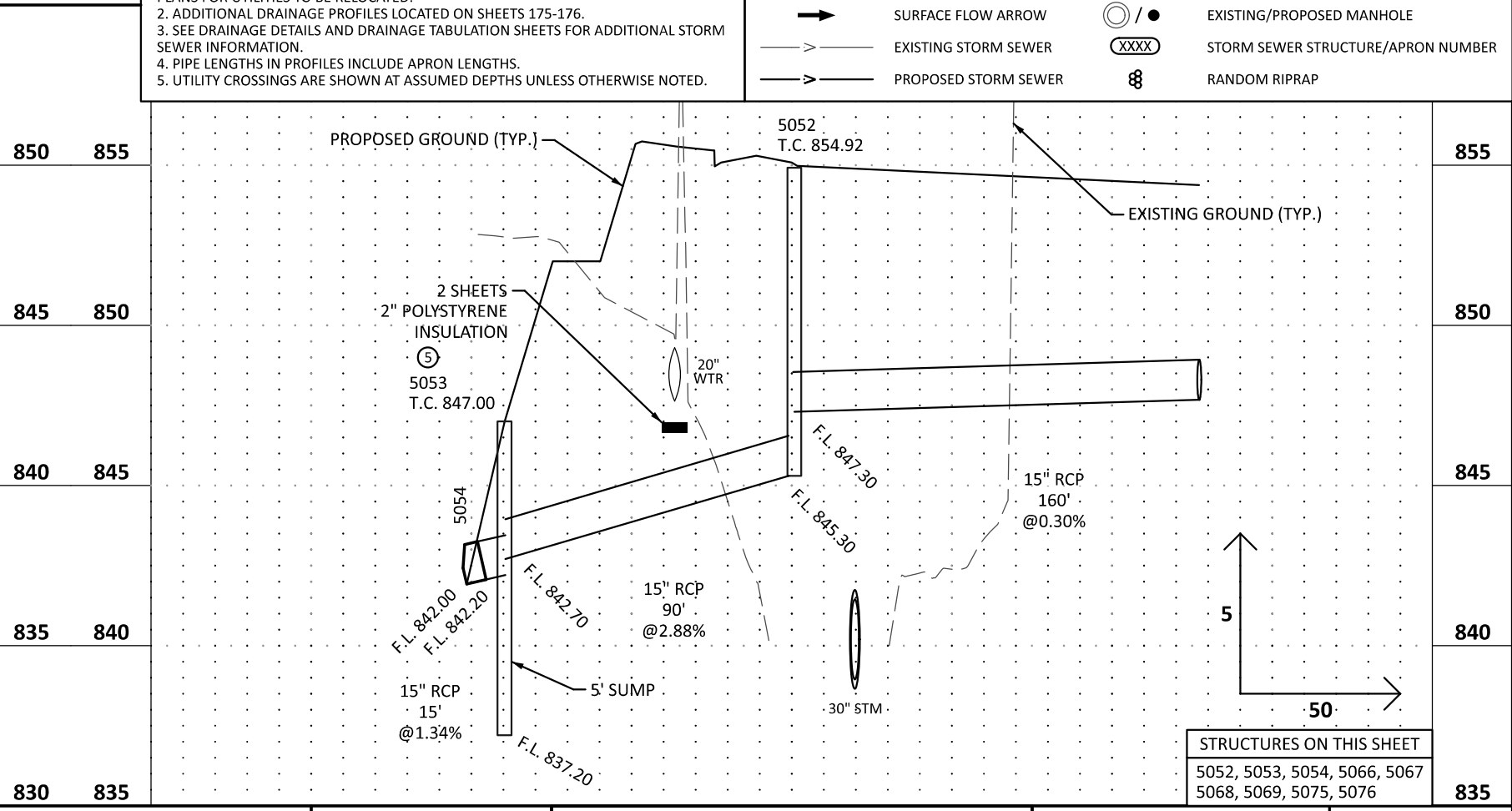
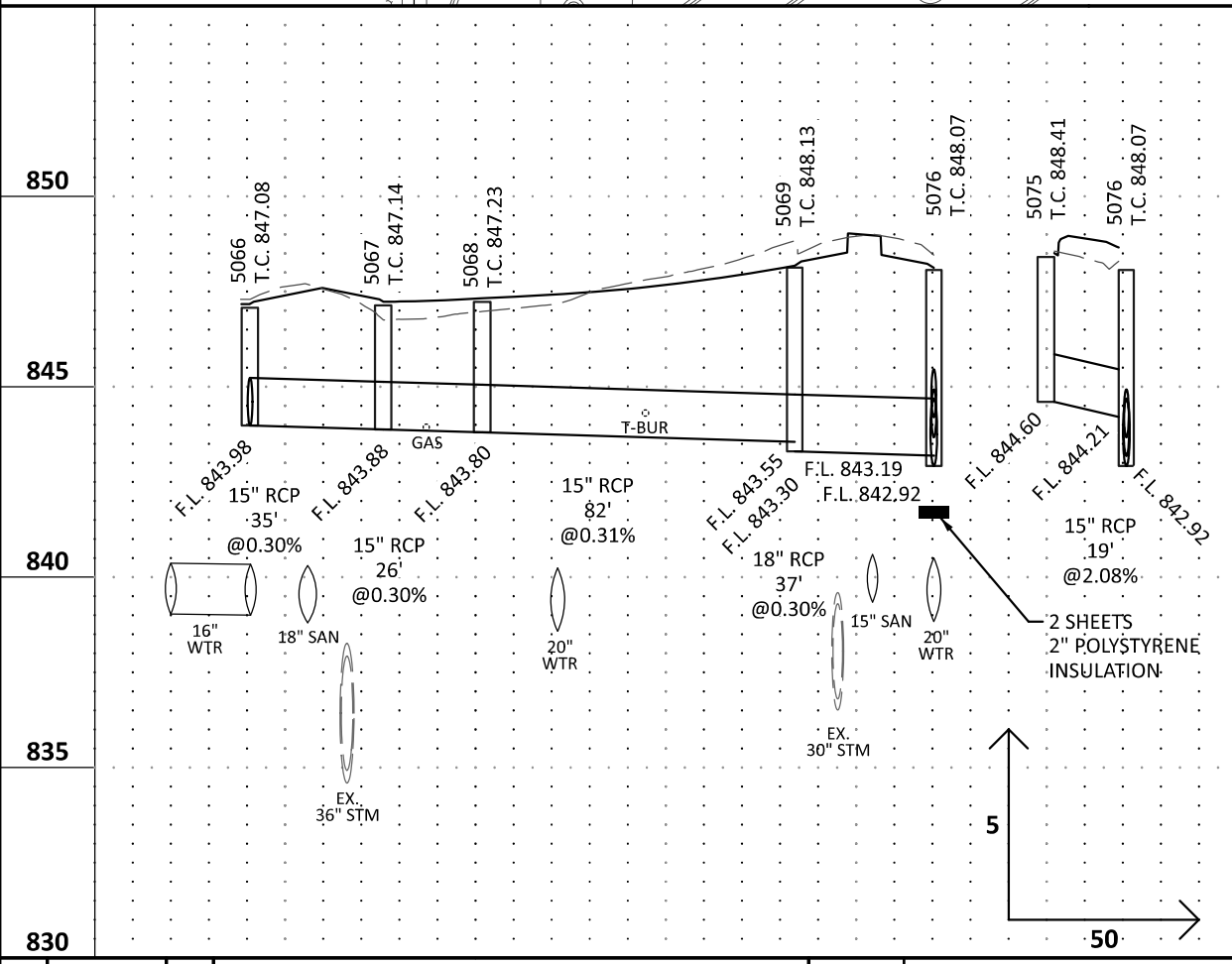
- SPECIFIC NOTES:**
- 1. CONNECT TO EX. STORM SEWER
 - 2. SEE CONTOUR PLANS FOR BMP GRADING AND DETAILS
 - 3. DRAINAGE STRUCTURE DESIGN SPECIAL 1. SEE CONTOUR PLANS FOR DETAIL.
 - 4. DRAINAGE STRUCTURE DESIGN SPECIAL 2. SEE CONTOUR PLANS FOR DETAIL.
 - 5. BAFFLE PRE-TREATMENT DEVICE. DRAINAGE STRUCTURE DESIGN SPECIAL 3. SEE DETAIL SHEET 180.
 - 6. UNDERGROUND INFILTRATION BMP. SEE CONTOUR PLANS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
 - 7. PIPE LENGTH AND SLOPE SUBJECT TO CHANGE DEPENDENT ON FINAL CONFIGURATION OF UNDERGROUND INFILTRATION BMP. UPSTREAM AND DOWNSTREAM INVERTS MUST BE MAINTAINED AS SHOWN

JACKSON ST (CSAH 55)

RANDOM RIP RAP CLASS II.
SEE DETAIL ON SHEET 179.

- GENERAL NOTES:**
- 1. PROTECT EXISTING UTILITIES (INCIDENTAL). SEE EXISTING TOPOGRAPHY AND UTILITIES PLANS FOR UTILITIES TO BE RELOCATED.
 - 2. ADDITIONAL DRAINAGE PROFILES LOCATED ON SHEETS 175-176.
 - 3. SEE DRAINAGE DETAILS AND DRAINAGE TABULATION SHEETS FOR ADDITIONAL STORM SEWER INFORMATION.
 - 4. PIPE LENGTHS IN PROFILES INCLUDE APRON LENGTHS.
 - 5. UTILITY CROSSINGS ARE SHOWN AT ASSUMED DEPTHS UNLESS OTHERWISE NOTED.

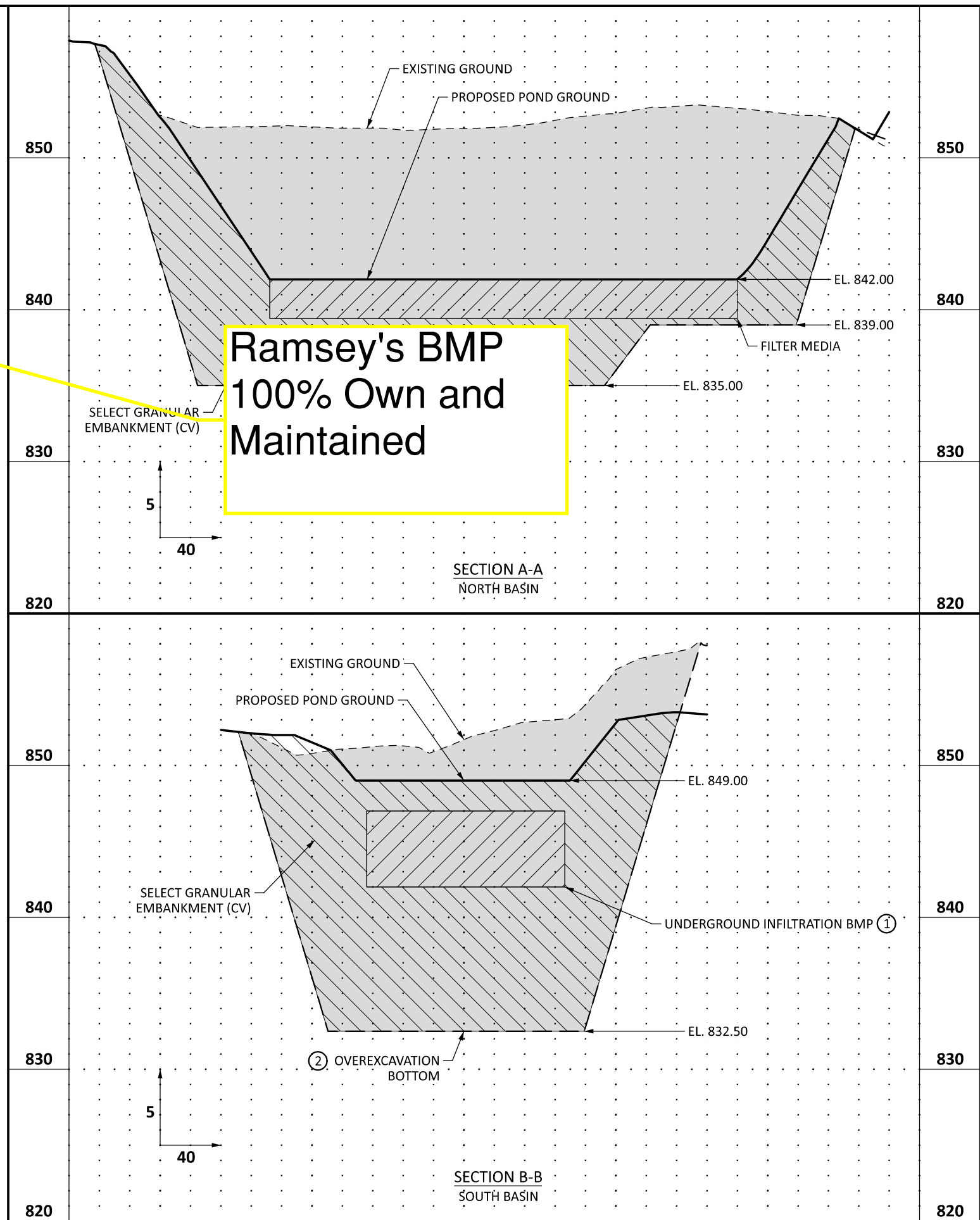
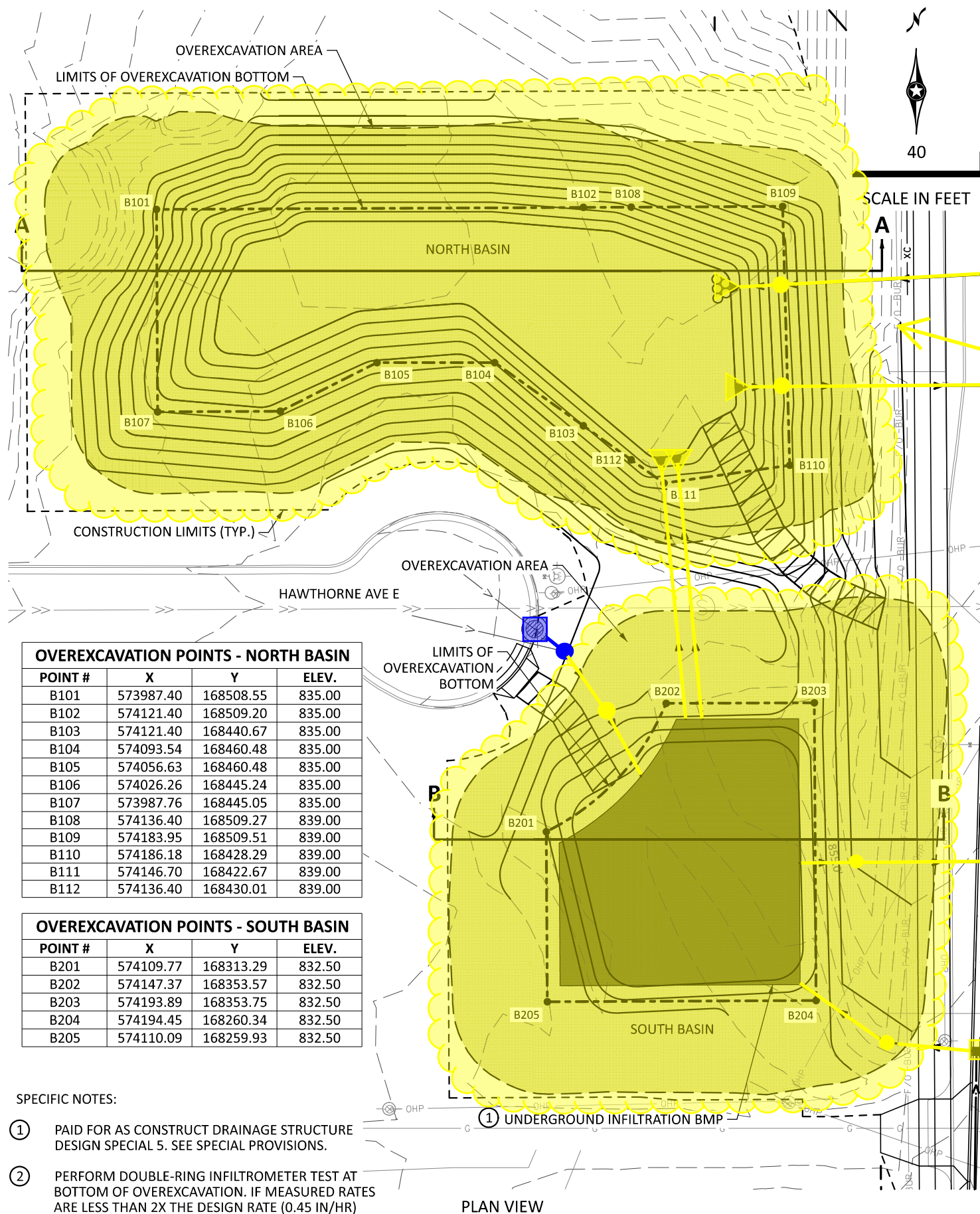
LEGEND			
---	EXISTING RIGHT-OF-WAY	---	PROPOSED DRAIN TILE
---	TEMPORARY EASEMENT	□ / ▣	EXISTING/PROPOSED APRON
---	CONSTRUCTION LIMITS	⊗ / ⊠	EXISTING/PROPOSED CATCH BASIN
→	SURFACE FLOW ARROW	⊙ / ●	EXISTING/PROPOSED MANHOLE
---	EXISTING STORM SEWER	XXXX	STORM SEWER STRUCTURE/APRON NUMBER
---	PROPOSED STORM SEWER	⊗	RANDOM RIPRAP



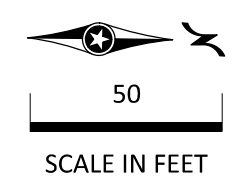
				DES: EMC	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	SIGNATURE: _____ PRINTED NAME: _____ LIC. NO. _____ DATE: _____	 ALLIANT	DRAINAGE PLAN AND PROFILE	JACKSON ST (CSAH 55)		SHEET NO. 167
				DRW: EMC					SAP 164-020-181, SAP 164-020-183 SAP 062-655-009, SAP 062-631-037		TOTAL SHEETS 271
				CHK: CJF							
NO.	DATE	BY	DESCRIPTION OF REVISIONS								

PLOT NAME: cd062655010_230con

PATH & FILENAME: Projects\n-z\RamseyCounty\18492000-ORD\04_Production\01_CAD\Hydraulics\Sheets\cd062655010_230con.dgn



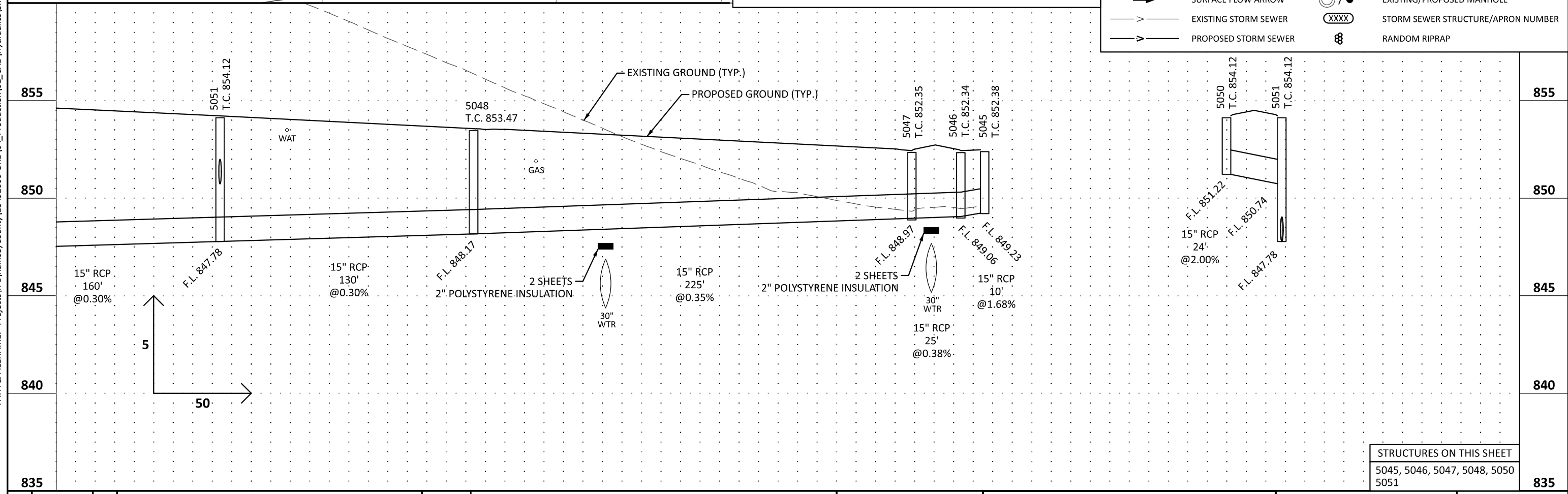
			DES: EMC	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	SIGNATURE: _____ PRINTED NAME: _____ LIC. NO. _____ DATE: _____	 ALLIANT	CONTOUR PLAN	JACKSON ST (CSAH 55)	SHEET NO.	164
			DRW: EMC					SAP 164-020-181, SAP 164-020-183 SAP 062-655-009, SAP 062-631-037	TOTAL SHEETS	271
			CHK: CJF							
NO.	DATE	BY	DESCRIPTION OF REVISIONS							



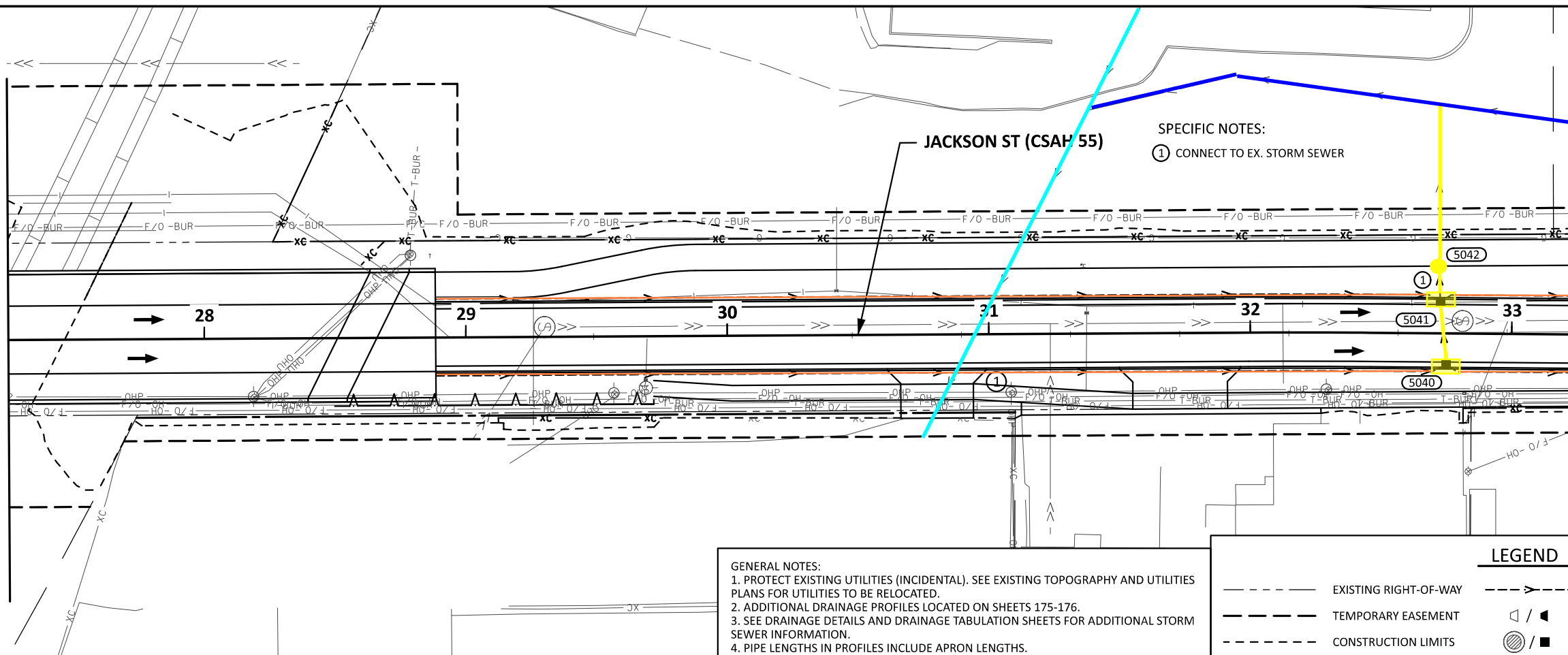
GENERAL NOTES:
1. PROTECT EXISTING UTILITIES (INCIDENTAL). SEE EXISTING TOPOGRAPHY AND UTILITIES PLANS FOR UTILITIES TO BE RELOCATED.
2. ADDITIONAL DRAINAGE PROFILES LOCATED ON SHEETS 175-176.
3. SEE DRAINAGE DETAILS AND DRAINAGE TABULATION SHEETS FOR ADDITIONAL STORM SEWER INFORMATION.
4. PIPE LENGTHS IN PROFILES INCLUDE APRON LENGTHS.
5. UTILITY CROSSINGS ARE SHOWN AT ASSUMED DEPTHS UNLESS OTHERWISE NOTED.

LEGEND

 EXISTING RIGHT-OF-WAY  TEMPORARY EASEMENT  CONSTRUCTION LIMITS  SURFACE FLOW ARROW  EXISTING STORM SEWER  PROPOSED STORM SEWER	 PROPOSED DRAIN TILE  EXISTING/PROPOSED APRON  EXISTING/PROPOSED CATCH BASIN  EXISTING/PROPOSED MANHOLE  STORM SEWER STRUCTURE/APRON NUMBER  RANDOM RIPRAP
--	---

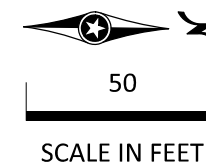


			DES: EMC	I HEREBY CERTIFY THAT THIS SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA	SIGNATURE: _____	 ALLIANT	DRAINAGE PLAN AND PROFILE	JACKSON ST (CSAH 55)	SHEET NO. 168	
			DRW: EMC		PRINTED NAME: _____				SAP 164-020-181, SAP 164-020-183 SAP 062-655-009, SAP 062-631-037	
NO.	DATE	BY	DESCRIPTION OF REVISIONS	CHK: CJF	LIC. NO. _____ DATE: _____				TOTAL SHEETS 271	



– JACKSON ST (CSAH 55)

SPECIFIC NOTES:
 ① CONNECT TO EX. STORM SEWER



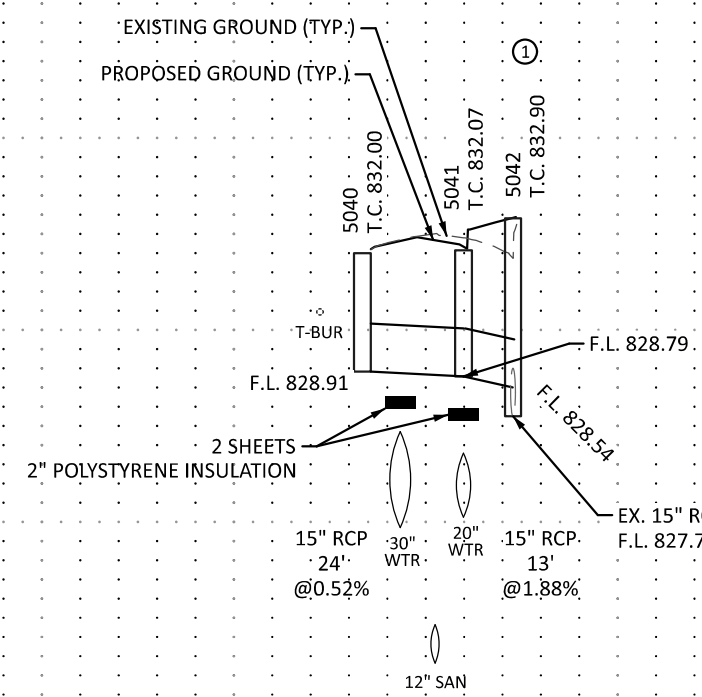
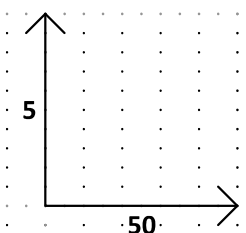
MATCHLINE - JACKSON ST STA. 33+25

GENERAL NOTES:

1. PROTECT EXISTING UTILITIES (INCIDENTAL). SEE EXISTING TOPOGRAPHY AND UTILITIES PLANS FOR UTILITIES TO BE RELOCATED.
2. ADDITIONAL DRAINAGE PROFILES LOCATED ON SHEETS 175-176.
3. SEE DRAINAGE DETAILS AND DRAINAGE TABULATION SHEETS FOR ADDITIONAL STORM SEWER INFORMATION.
4. PIPE LENGTHS IN PROFILES INCLUDE APRON LENGTHS.
5. UTILITY CROSSINGS ARE SHOWN AT ASSUMED DEPTHS UNLESS OTHERWISE NOTED.

LEGEND

- | | | | |
|---|-----------------------|---|------------------------------------|
|  | EXISTING RIGHT-OF-WAY |  | PROPOSED DRAIN TILE |
|  | TEMPORARY EASEMENT |  | EXISTING/PROPOSED APRON |
|  | CONSTRUCTION LIMITS |  | EXISTING/PROPOSED CATCH BASIN |
|  | SURFACE FLOW ARROW |  | EXISTING/PROPOSED MANHOLE |
|  | EXISTING STORM SEWER |  | STORM SEWER STRUCTURE/APRON NUMBER |
|  | PROPOSED STORM SEWER |  | RANDOM RIPRAP |



STRUCTURES ON THIS SHEET

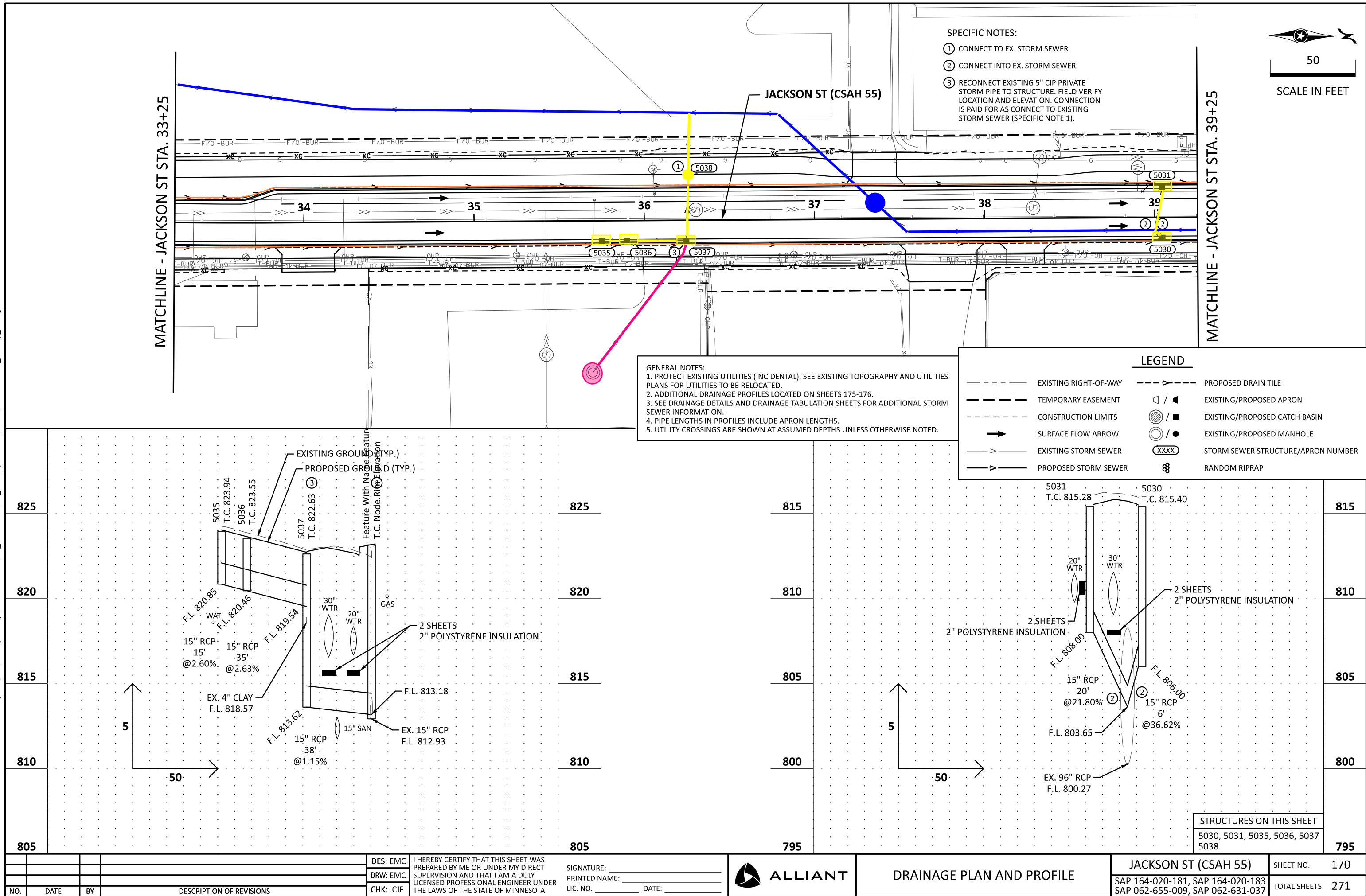
5040, 5041, 5042

820

			DES: EMC	I HEREBY CERTIFY THAT THIS SHEET 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	SIGNATURE: _____ PRINTED NAME: _____ LIC. NO. _____ DATE: _____	 ALLIANT	DRAINAGE PLAN AND PROFILE	JACKSON ST (CSAH 55)	SHEET NO. 169
			DRW: EMC					SAP 164-020-181, SAP 164-020-183 SAP 062-655-009, SAP 062-631-037	TOTAL SHEETS 271
NO.	DATE	BY	CHK: CJF					DESCRIPTION OF REVISIONS	

PLOT NAME: cd062655010_300drp_S-a

PATH & FILENAME: Projects\ n-z\ RamseyCounty\ 18492000-ORD\ 04 Production\ 01 CAD\ Hydraulics\ Sheets\ cd062655010 300drp S-a.dgn



TIME: 3:57:48 PM

PLOTTED: 14-JAN-2026
PATH & FILENAME: Projects\in-z\RamseyCounty\18492000-ORD\04_Production\01_CAD\Hydraulics\Sheets\cd062655010_300drp_S-a.dgn

PLOT NAME: cd062655010_300drp_S-a
PATH & FILENAME: Projects\in-z\RamseyCounty\18492000-ORD\04_Production\01_CAD\Hydraulics\Sheets\cd062655010_300drp_S-a.dgn

SPECIFIC NOTES:

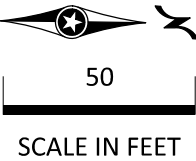
- ① CONNECT TO EX. STORM SEWER
- ② RECONNECT EXISTING 4" PVC PRIVATE STORM PIPE TO STRUCTURE. FIELD VERIFY LOCATION AND ELEVATION. CONNECTION IS PAID FOR AS CONNECT TO EXISTING STORM SEWER (SPECIFIC NOTE 1).

JACKSON ST (CSAH 55)

ARLINGTON AVE E

CONNECT TO SAP 062-655-013,
SAP 164-020-179 SUBSURFACE
DRAINAGE (INCIDENTAL).

END SAP 062-655-009
END SAP 164-020-181
END RECONSTRUCTION
JACKSON ST (CSAH 55)
STA. 42+70.00



MATCHLINE - JACKSON ST STA. 39+25

LEGEND

- | | | | |
|-------|-----------------------|-------|------------------------------------|
| --- | EXISTING RIGHT-OF-WAY | --- | PROPOSED DRAIN TILE |
| - - - | TEMPORARY EASEMENT | ◁ / ▷ | EXISTING/PROPOSED APRON |
| - - - | CONSTRUCTION LIMITS | ⊗ / ⊙ | EXISTING/PROPOSED CATCH BASIN |
| ➔ | SURFACE FLOW ARROW | ⊕ / ⊖ | EXISTING/PROPOSED MANHOLE |
| - - - | EXISTING STORM SEWER | XXXX | STORM SEWER STRUCTURE/APRON NUMBER |
| - - - | PROPOSED STORM SEWER | ⊗ | RANDOM RIPRAP |

- GENERAL NOTES:
1. PROTECT EXISTING UTILITIES (INCIDENTAL). SEE EXISTING TOPOGRAPHY AND UTILITIES PLANS FOR UTILITIES TO BE RELOCATED.
2. ADDITIONAL DRAINAGE PROFILES LOCATED ON SHEETS 175-176.
3. SEE DRAINAGE DETAILS AND DRAINAGE TABULATION SHEETS FOR ADDITIONAL STORM SEWER INFORMATION.
4. PIPE LENGTHS IN PROFILES INCLUDE APRON LENGTHS.
5. UTILITY CROSSINGS ARE SHOWN AT ASSUMED DEPTHS UNLESS OTHERWISE NOTED.

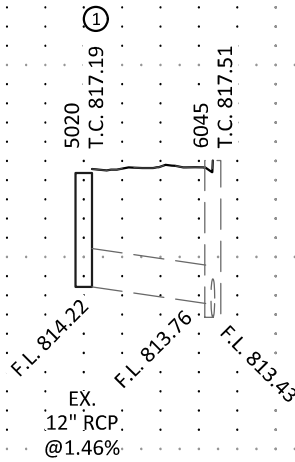
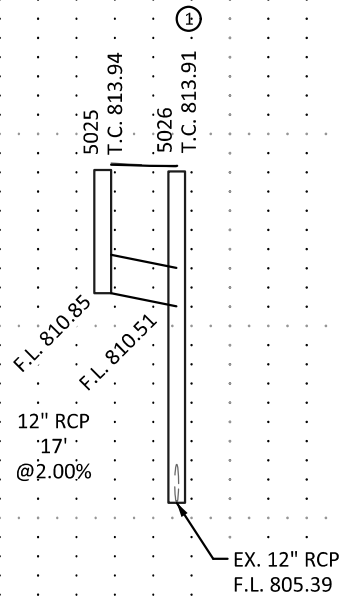
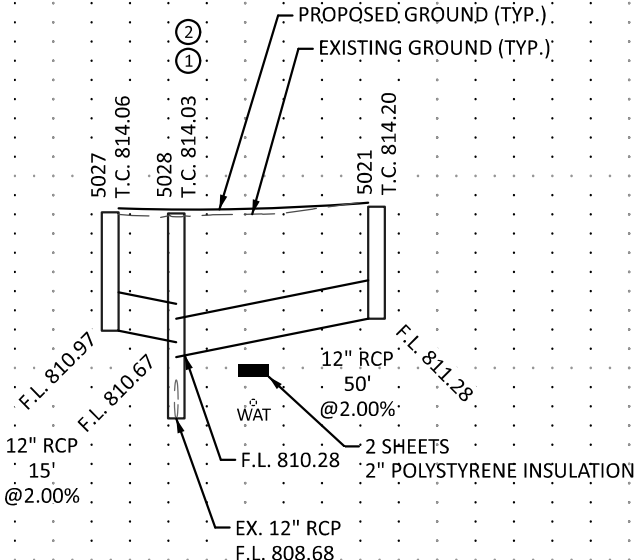
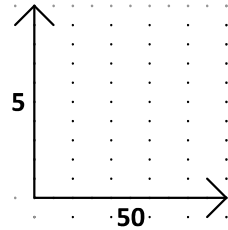
820

815

810

805

800



STRUCTURES ON THIS SHEET

5021, 5025, 5026, 5027, 5028

820

815

810

805

800

NO.	DATE	BY	DESCRIPTION OF REVISIONS

DES: EMC
DRW: EMC
CHK: CJF

I HEREBY CERTIFY THAT THIS SHEET 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

SIGNATURE: _____
PRINTED NAME: _____
LIC. NO. _____ DATE: _____



DRAINAGE PLAN AND PROFILE

JACKSON ST (CSAH 55)
SAP 164-020-181, SAP 164-020-183
SAP 062-655-009, SAP 062-631-037

SHEET NO. 171
TOTAL SHEETS 271