

Technical Memorandum

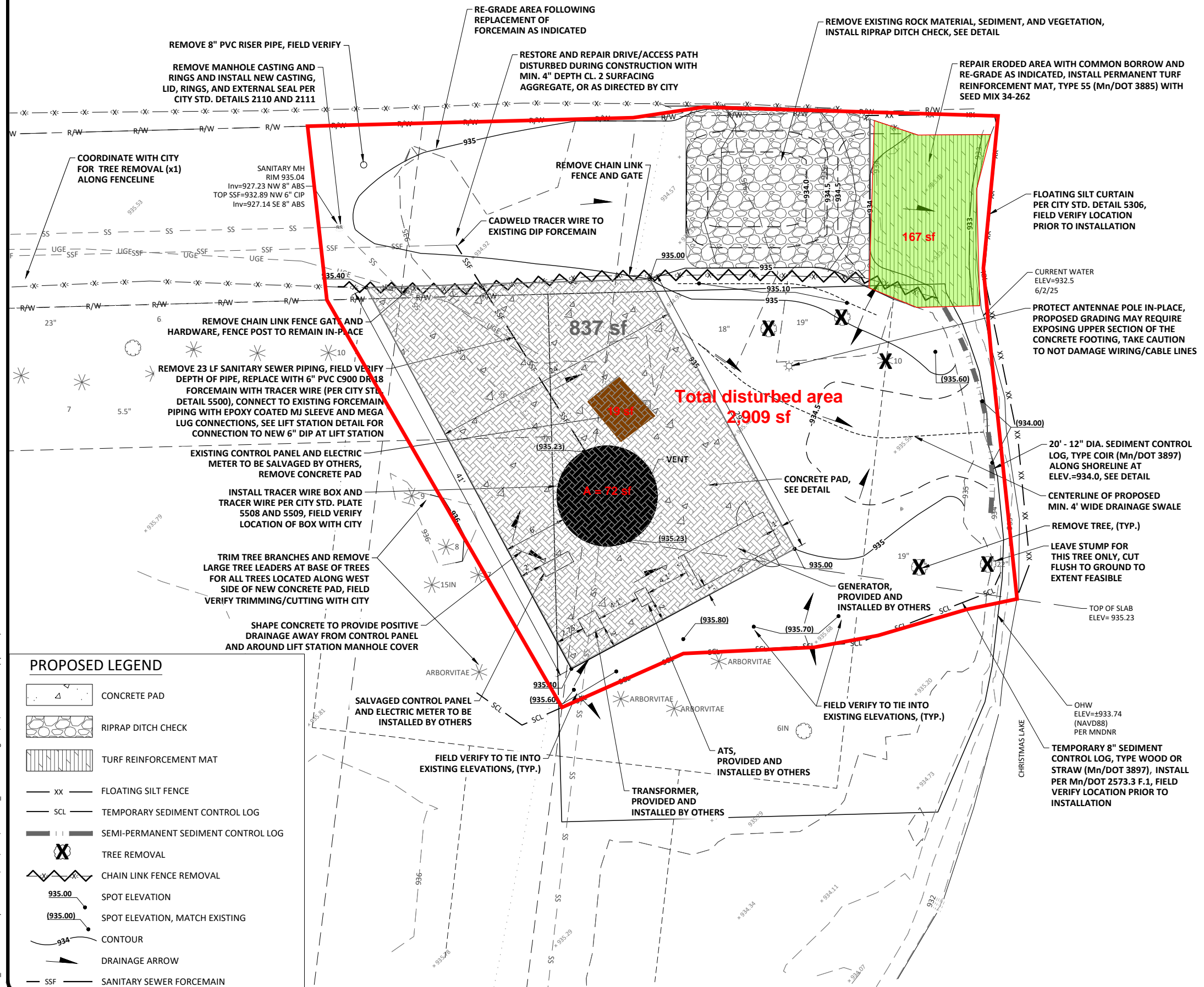
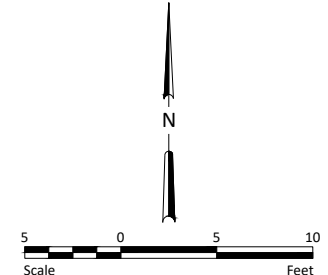
To: Minnehaha Creek Watershed District
From: Houston Engineering, Inc
Subject: Chanhassen Lift Station #5
Date: May 12, 2026
HEI Project: 9161-0007

1. Project summary

The project proposes to remove an existing electric control panel and install a concrete pad around an existing lift station manhole located adjacent to Christmas Lake at 1005 Holly Lane, Chanhassen MN. This will increase the impervious area around the manhole from 91 SF to 837 SF. The project will drain to a swale prior to discharging into Christmas Lake. Infiltration and bio-filtration are not feasible due to the lack of separation from the groundwater (existing lift station manhole rim is 935.23 and the OHW of Christmas Lake is 932.77).

Additionally, the project will repair erosion at the end of the drive access. This will entail removing gravel and rock material, installing rip-rap and a check dam, and then installing permanent turf reinforcement mat. This will result in a reduction of 167 SF of impervious area. Thus, the total net increase for the entire project is 579 SF.

See Figure 1.



NOTES

1. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY ENGINEERING DIVISION FOR WORK WITHIN A PUBLIC RIGHT OF WAY A MINIMUM 72 HOURS PRIOR TO WORK.
2. EROSION CONTROL SHALL BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION. KEEP ROADWAYS FREE OF SEDIMENTS. STREETS SHALL BE SWEEP AS NECESSARY OR AS DIRECTED BY THE CITY. REFER TO CITY STANDARD DETAIL PLATE 5302D AND THE CITY'S STANDARD SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND TOPOGRAPHY PRIOR TO COMMENCING GRADING OPERATIONS. IF DISCREPANCIES OCCUR BETWEEN PLANS AND ACTUAL SITE CONDITIONS, NOTIFY ENGINEER AND OWNER IMMEDIATELY.
4. PRIOR TO GRADING ACTIVITIES, TOPSOIL, ROOTS, AND OTHER ORGANIC MATERIAL SHALL BE COMPLETELY STRIPPED IN NEW PAVEMENT AREAS AND ONLY STRIPPED AS NEEDED IN GREENSPACE AREAS. EXISTING TOPSOIL SHALL BE STOCKPILED FOR REUSE.
5. MAINTAIN EXISTING SURFACE DRAINAGE AT ALL TIMES DURING CONSTRUCTION AND PROVIDE DEWATERING AS NEEDED.
6. PROVIDE A CONTINUOUS VAC TRUCK OR TEMPORARY PUMPING AT LIFT STATION DURING TIMES WHEN LIFT STATION AND FORCEMAIN WILL BE OFFLINE, COORDINATE WITH CITY.
7. PROTECT IN-PLACE EXISTING SITE FEATURES NOT DESIGNATED FOR REMOVAL, INCLUDING TREES/PLANTINGS.
8. RESTORE ALL DISTURBED AREAS, INCLUDING PAVEMENTS AND GRAVEL ACCESS ROAD, TO EXISTING CONDITION OR BETTER.
9. INSTALL SALVAGED TOPSOIL TO A MINIMUM DEPTH OF 6". IMPORT ADDITIONAL TOPSOIL AS NEEDED. INSTALL SEED MIX 34-262 ALONG LAKE SHORELINE (SEE SHORELINE RESTORATION DETAIL) AND IN THE AREA OF THE TURF REINFORCEMENT MAT. ALL OTHER AREAS SHALL BE SEEDED WITH Mn/DOT MIX 25-141, UNLESS OTHERWISE DIRECTED. HYDRO-SEED WITH HYDRAULIC MULCH (TYPE 4) AND STARTER FERTILIZER (1:2:1 RATIO) PER CITY STANDARD SPECIFICATIONS.
10. CITY IS CONTRACTING SEPARATELY WITH AN ELECTRICAL CONTRACTOR FOR SALVAGING AND RE-INSTALLING THE EXISTING CONTROL PANEL AND FOR INSTALLING THE NEW TRANSFORMER, ATS, AND GENERATOR. COORDINATE WORK WITH CITY AND CITY'S ELECTRICAL CONTRACTOR.
11. PROVIDE INITIAL LAYOUT OF PROPOSED CONCRETE PAD AS INDICATED ON THE PLAN. FIELD VERIFY WITH CITY AND CITY'S ELECTRICAL CONTRACTOR FINAL LAYOUT OF CONCRETE PAD TO ACCOMMODATE LAYOUT OF THE ELECTRICAL COMPONENTS.

PROPOSED LEGEND

	CONCRETE PAD
	RIPRAP DITCH CHECK
	TURF REINFORCEMENT MAT
	FLOATING SILT FENCE
	TEMPORARY SEDIMENT CONTROL LOG
	SEMI-PERMANENT SEDIMENT CONTROL LOG
	TREE REMOVAL
	CHAIN LINK FENCE REMOVAL
	SPOT ELEVATION
	SPOT ELEVATION, MATCH EXISTING
	CONTOUR
	DRAINAGE ARROW
	SANITARY SEWER FORCEMAIN

	Total post developed impervious area (837 SF)
	Existing impervious area to remain (72 SF)
	Existing impervious area to be removed (19 SF)
	Re-vegetated gravel area (167 SF)

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Figure 1: Existing and Proposed Impervious areas



Drawn by DAR	Date 04/30/2026
Checked by AMP	Scale AS SHOWN

LIFT STATION #5 SITE IMPROVEMENTS
CITY OF CHANHASSEN
CHANHASSEN, MN

CONSTRUCTION PLAN
CITY PROJECT NO. 25-12

No.	Revision	Date	By
1	QUOTE SET	04/30/2026	AMP