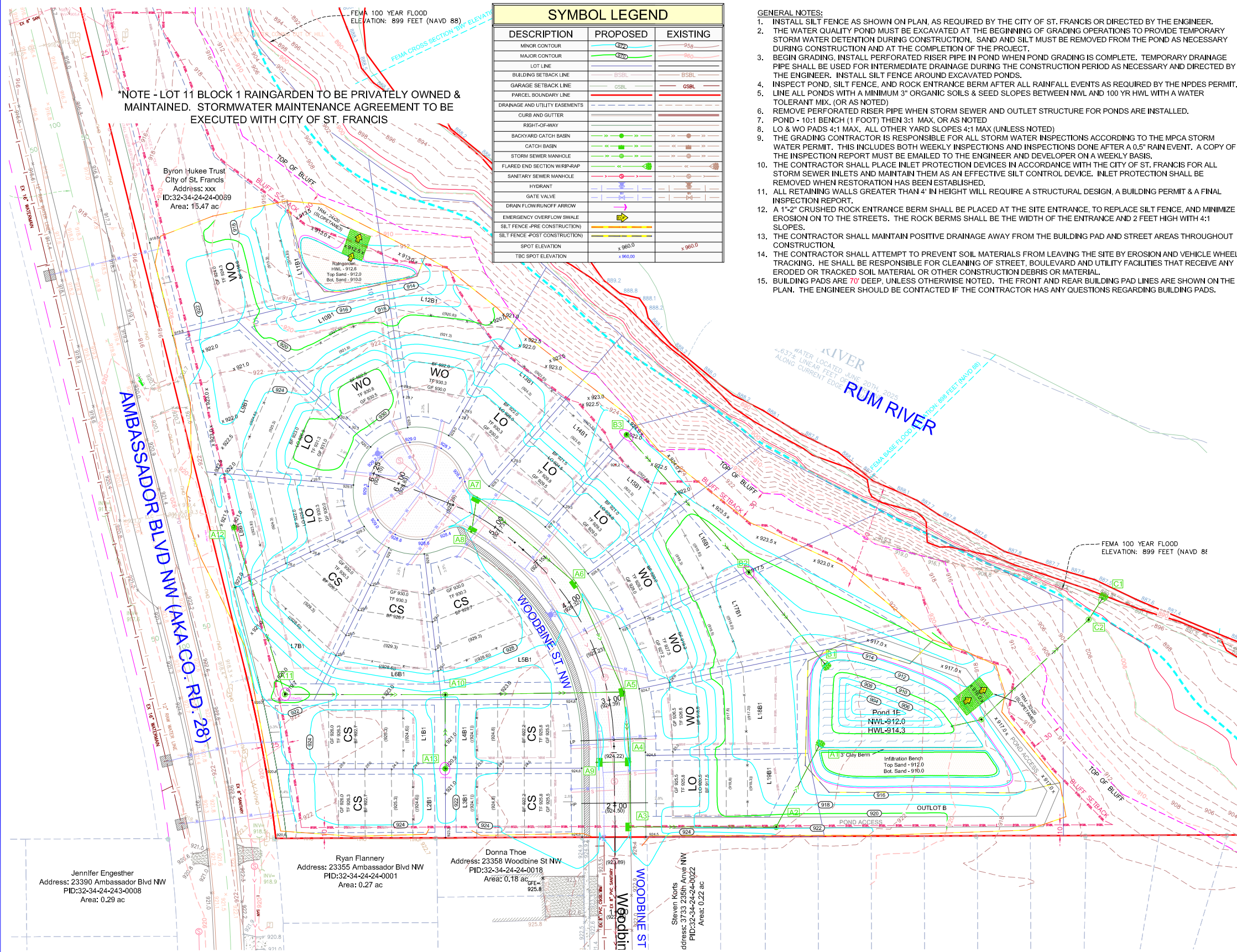




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DRAWING NAME	NO.	BY	DATE	REVISIONS
DRV	01	ERJ	09-10-25	CITY COMMENTS - UPDATE PLANS
DRAWN BY	02	ERJ	09-26-25	CITY COMMENTS - UPDATE PLANS

CHECKED BY				
ERJ				
DATE				
08/21/25				

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Eric R. Johnson
Eric R. Johnson, P.E.
Date: 08/21/2025 Lic. No. 56659

ENGINEERS
SURVEYORS
DESIGNERS
PLANNERS

SATHRE-BERGQUIST, INC.
14000 25TH AVE N #120 PLYMOUTH, MN. 55447 (952) 476-6000

CITY PROJECT NO.

ST. FRANCIS,
MINNESOTA

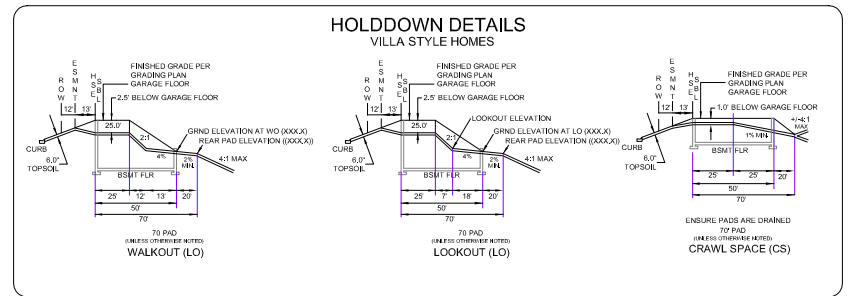
GRADING PLAN
DALTON RIVER VILLAS
MEADOW CREEK CONSTRUCTION

FILE NO.
54856-037

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- ### ON-SITE BMPs
- NURP POND - NURP POND WILL BE UTILIZED TO MEET OR EXCEED QUALITY AND RATE CONTROL REQUIREMENTS.
 - SKIMMERS - THE POND OUTLET STRUCTURE INCLUDES A SUBMERGED INLET PIPE TO ALLOW SKIMMING.
 - RIP RAP - RIP RAP WILL BE UTILIZED AT ALL APRONS FOR ENERGY DISSIPATION AND PROVIDE SEDIMENT CONTROL. MUST BE INSTALLED OVER A SUITABLY GRADED FILTER MATERIAL OR FILTER FABRIC TO ENSURE THAT SOIL PARTICLES DO NOT MIGRATE THROUGH THE RIP RAP AND REDUCE ITS STABILITY.
 - INLET PROTECTION - INLET PROTECTION WILL BE INSTALLED AND MAINTAINED IN ALL CATCH BASINS & REAR YARD STRUCTURES. REFER TO THE CITY DETAILS TO DETERMINE WHICH INLET PROTECTION DEVICE IS APPLICABLE.
 - SLOPE STABILIZATION - SILT FENCE WILL BE INSTALLED ALONG DOWN GRADIENT GRADING LIMITS AND WOODFIBER BLANKET WILL BE UTILIZED ON ALL SLOPES 3:1 OR GREATER TO PROVIDE ADEQUATE SLOPE STABILIZATION.
 - BIOROLLS - BIOROLLS WILL BE INSTALLED ALONG REAR YARD SWALES TO PREVENT SEDIMENT FROM REACHING THE NURP POND AND ULTIMATELY DOWNSTREAM WETLANDS.
 - FILTRATION/RETENTION AREAS - FILTRATION/RETENTION AREAS WILL BE UTILIZED TO REDUCE/RETAIN THE RUNOFF FROM THE INCREASED HARD SURFACE.
 - STREET SWEEPING - STREET SWEEPING WILL BE DONE A MINIMUM OF ONCE PER WEEK OR MORE FREQUENTLY TO MINIMIZE DUST CONTROL AND VEHICLE TRACKING.
 - PHOSPHOROUS FREE FERTILIZER - PHOSPHOROUS FREE FERTILIZER WILL ALSO BE USED ON SITE.
- ### RESTORATION NOTES
- RESTORATION - 5.5 ACRES
- RESTORE ALL DISTURBED AREAS WITH 4" TO 6" OF TOPSOIL, OR EXISTING ON-SITE ORGANIC MTRL.
 - SEED WETLAND BUFFER AREAS WITH MNDOT 35-241 (MESIC PRAIRIE GENERAL, REPLACING MNDOT 310)
 - SEED POND SLOPES AND DETENTION AREAS WITH MN/DOT 33-261 SEED MIX AT A RATE OF 100 LBS./ACRE AND FERTILIZE WITH 20-0-10 AT 100 LBS./ACRE. (VERIFY W/ CITY PUBLIC WORKS)
 - SEED ALL OTHER DISTURBED AREAS WITH MNDOT 250 SEED MIX AT A RATE OF 100 LBS./ACRE AND FERTILIZE WITH 20-0-10 AT 100 LBS./ACRE. (UNLESS OTHERWISE NOTED)
 - ONLY PHOSPHOROUS FREE FERTILIZER IS TO BE USED ON SITE.
 - MULCH WITH TYPE 1 AT A RATE OF 2 TONS/ACRE AND DISC ANCHOR IMMEDIATELY AFTER PLACEMENT. USE WOODFIBER BLANKET ON ALL SLOPES 3:1 (FT) OR GREATER.
 - PLACE APPROVED STORM SEWER INLET PROTECTION IN OR AROUND ALL STORM SEWER INLETS AND MAINTAIN UNTIL STREET CONSTRUCTION IS COMPLETED. REFER TO CITY DETAILS ST-22 & ST-23 FOR APPROVED DEVICES.
 - MAINTAIN ALL SILT FENCE UNTIL TURF HAS BEEN ESTABLISHED.
 - RESTORATION WORK WILL BE COMPLETED WITHIN 72 HOURS OF GRADING COMPLETION.
 - SILT FENCE, BEFORE GRADING - 2,345 LF
AFTER GRADING - 690 LF



- ### FILTRATION BASIN NOTES:
- Initial excavation of the filtration shelves shall be dug 18" below the finished final grade.
 - The material within the filtration shelves will be installed after the storm sewer outlet control structure is installed.
 - To prevent soil compaction, heavy equipment shall not be allowed within the benches at anytime.
 - The bottom of the filtration shelves shall be tilled a minimum of 12" prior to placing the filtration material.
 - Relatively light equipment with tracks shall be used to excavate the filtration shelves.
 - Immediately upon completion of grading the filtration shelves, silt fence shall be installed per the plan to establish perimeter control.
 - The material within the shelves will be 1.5' deep with a 6" drain tile installed at the base of the filtration media.
 - The mix for the filtration shelves should be C33 Sand.

