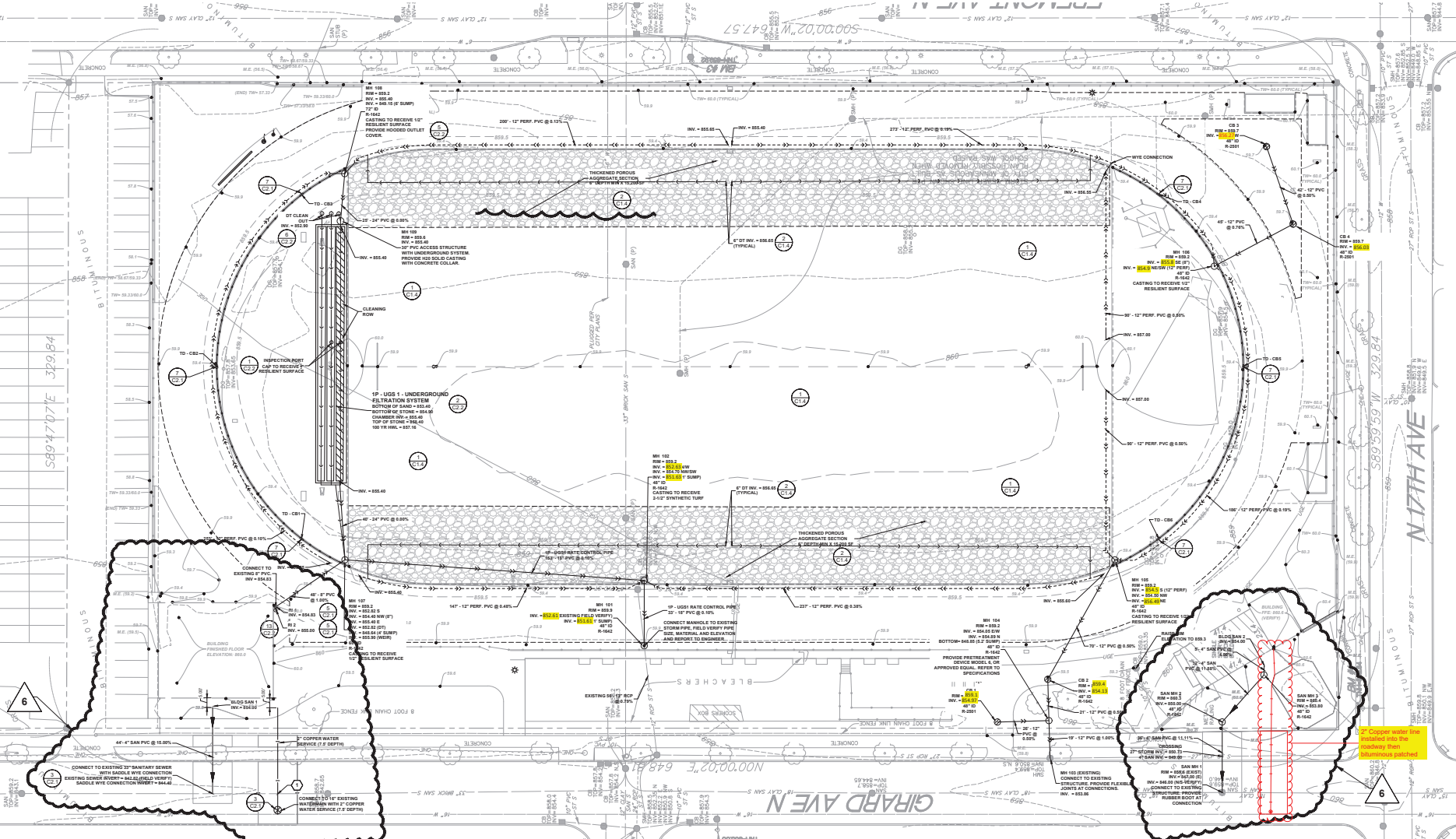
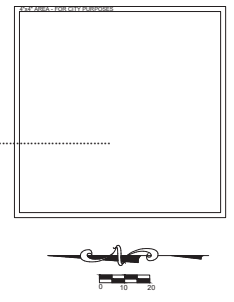


- LEGEND**
- REFERENCE KEY TO SITE DETAILS
DETAIL LD NUMBER (TOP)
DETAIL SHEET NUMBER (BOTTOM)
 - EXISTING CONTOUR
 - +88.0 EXISTING SPOT ELEVATION
 - 86.5 PROPOSED CONTOUR
 - PROPOSED SPOT ELEVATION
NE = MATCH EXISTING
TO BC = TOP BOTTOM OF CURB
TW = TOP OF RETAINING WALL
 - PROPOSED GRADING LIMITS
 - PROPOSED STORM SEWER
 - PROPOSED PERFORATED STORM SEWER
 - PROPOSED CHAIN TIE
 - PROPOSED MANHOLE (MH)
 - PROPOSED CATCH BASIN (CB)
 - PROPOSED UNDERGROUND CHAMBERS
- PROVIDE MINIMUM 18" VERTICAL SEPARATION AT CROSSING - PROVIDE VERTICAL BENDS IN WATERMAIN AS REQUIRED TO ACCOMPLISH CENTER ONE LENGTH WATERMAIN PIPE ON CROSSING.

- NOTES**
1. REFER TO SHEET 01.0 - TITLE SHEET FOR GENERAL NOTES.
 2. ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 2665, SCHEDULE 40), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2221.
 3. STORM SEWER PIPE (NON-PERFORATED) SHALL BE PVC PIPE (ASTM D3034, SDR 35), UNLESS OTHERWISE NOTED. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321.
 4. ALL WATERMAIN SHALL BE ANWIA D90, CAST IRON DD, DR 18, PVC PIPE INSTALLED IN ACCORDANCE WITH ASTM D2221. ALL WATERMAIN SHALL HAVE MINIMUM 8" OF SLOPE (TOP OF PIPE TO FINISH GRADE).
 5. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
 - a. IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
 - b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
 - i. ...
 - ii. ...
 - iii. ...
 - iv. ...
 - v. OR APPROVED EQUAL.
 6. REFER TO SHEET C1.8, EROSION CONTROL PLAN (SWPPP), FOR EROSION CONTROL PROTECTION.
 7. ALL DRAIN TILE, EXCEPT FLAT TILE UNDER SYNTHETIC TURF, SHALL BE PVC A-2009, UNLESS OTHERWISE NOTED.
 8. LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.
 9. REFER TO ELECTRICAL SHEETS FOR PROVISION OF BLANK CONDUITS BETWEEN IN COMB BOXES, COORDINATE AS REQUIRED.
 10. WATERMAIN SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MINNESOTA PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
 11. ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MINNESOTA PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
 12. PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (STORM, SANITARY SEWER, WATERMAIN), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.



Project No. 150002
Date: 07/15/2024
Drawn by: J. J. JENSEN
Checked by: J. J. JENSEN
Reviewed by: J. J. JENSEN
Scale: AS SHOWN

UTILITY PLAN

I hereby certify that this plan, by me or under my direct supervision and to the best of my knowledge and belief, conforms to all the requirements of the laws of the State of Minnesota.
J. J. JENSEN
Professional Engineer
No. 45108, State of Minnesota
Date: 07/15/2024

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MINNEAPOLIS, MINNESOTA

C1.5

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