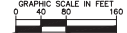
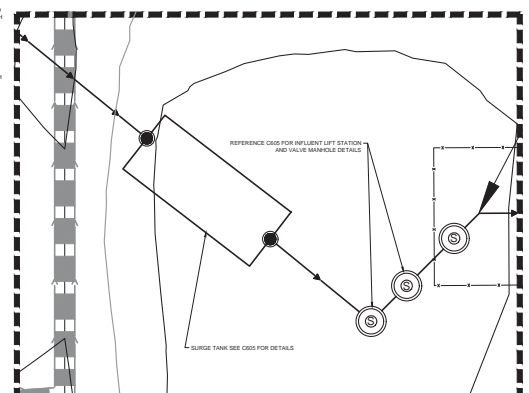


UTILITY PLAN NOTES

1. INSTALL UTILITIES IN ACCORDANCE WITH APPLICABLE CITY SPECIFICATIONS, STATE PLUMBING CODE AND READING PERMIT REQUIREMENTS.
2. CONTRACTOR SHALL BE CALLED BEFORE ANY LOCATING SERVICE AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION FOR UNDERGROUND UTILITY LOCATIONS.
3. CONTRACTOR IS RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
4. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
PVC 8" PER ASTM D-3034
CONCRETE 12" PER ASTM D-3034
SCOUR PROTECTIVE COATING (COP), AWWA
PVC FITTINGS SHALL BE ASTM D-3034 FOR PIPES 8" AND LARGER
DOWN AND CONNECTIONS SHALL MEET ASTM D-3034
PVC FITTINGS SHALL BE 10' TO 12' LONG, 10" DIA. 10' LONG
5. WATER LINES SHALL BE AS FOLLOWS:
4" AND LARGER DUCTILE IRON PIPE PER AWWA C-900
SMALLER THAN 4" SHALL BE COPPER TUBE PER 1" PER AND 1/2" OR P.V.C. 30.5 S.I. PER ASTM D-1781 AND D-2241
6. STORM SEWER PIPE SHALL BE AS FOLLOWS:
8" OR GREATER PER ASTM D-3034
12" OR GREATER PER ASTM D-3034
PVC 8" PER ASTM D-3034
PVC FITTINGS SHALL BE 10' TO 12' LONG, 10" DIA. 10' LONG
7. STORM SEWER FITTINGS SHALL BE AS FOLLOWS:
8" OR GREATER PER ASTM D-3034
12" OR GREATER PER ASTM D-3034
PVC 8" PER ASTM D-3034
PVC FITTINGS SHALL BE 10' TO 12' LONG, 10" DIA. 10' LONG
8. WHEN CONNECTING TO AN EXISTING UTILITY LINE, FIELD VERIFY THE LOCATION, DEPTH, AND SIZE OF THE EXISTING PIPE PRIOR TO EXCAVATION FOR NEW LINES. NOTIFY THE PUBLIC UTILITY COMPANIES OF ANY DISCREPANCIES OR VARIATIONS AFFECTING THE PROPOSED DESIGN OF THE PROJECT.
9. PLACE AND COMPACT ALL FILL MATERIAL PRIOR TO INSTALLATION OF PIPE UNDERGROUND UTILITIES. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
10. MAINTAIN A MINIMUM OF 4" COVER ON ALL WATER LINES.
11. FOR WATER LINES AND STUB-OUTS TO THE MECHANICAL JOINTS WITH RESTRAINTS SUCH AS THREAT BLOCKING, WITH STABILIZER STEEL OR CORAL BULK HEADS OR AS INDICATED IN THE CITY SPECIFICATIONS AND PROJECT DOCUMENTS.
12. MAINTAIN 18-INCH MINIMUM VERTICAL SEPARATION WHERE SEWER PIPE CROSSES WATER LINES OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE OR STRUCTURE. PROVIDE 10-FOOT HORIZONTAL SEPARATION BETWEEN SEWER PIPE AND WATER LINES.
13. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES OR ANY OBSTRUCTION EXISTING AND PROPOSED, THE SANITARY PIPE MATERIAL SHALL BE PVC EXCEPT AS OR PVC COIL AND GAS LINES SHALL BE 20" DIA. 20' PER FEET ON EITHER SIDE OF THE CENTER LINE OF THE CROSSING. THE WATER LINE SHALL BE MECHANICALLY AND WITH APPROPRIATE PATENTING AS REQUIRED TO PROVIDE A MINIMUM OF 18-INCH VERTICAL SEPARATION MEETING REQUIREMENTS OF AAS 41-10.00 AND 21.1.1 (AAS 41-10.00 CLASS 55).
14. UNDERGROUND UTILITY LINES SHALL BE INSTALLED, INSPECTED AND APPROVED PRIOR TO PLACING BACKFILL.
15. IN PRELIMINARY AREAS, RAISE MANHOLE CASTINGS TO BE PLUMB WITH PROPOSED FINISHED SURFACE GRADE. IN OTHER AREAS, RAISE MANHOLE CASTINGS TO BE ONE FOOT ABOVE FINISHED GROUND SURFACE AND INSTALL A WATER TIGHT LID.
16. REFER TO PLUMBING PLANS FOR LOCATION, SIZE AND ELEVATION OF UTILITY SERVICE CONNECTIONS AND ROOF DRAINAGE TO THE INTERIOR BUILDING OF SYSTEMS. BACKUP ON DEVICES (BOD) AND PIZ ASSEMBLY AS A MINIMUM ARE LOCATED INSIDE THE BUILDING.
17. CONTRACTOR TO SPECIFICALLY CERTIFY THAT THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION. THE REQUESTED EXACT FIELD LOCATION OF UTILITIES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RECONSTRUCT EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
18. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CORRECTIONS REQUIRED BY LOCAL AND/OR UTILITY SERVICE COMPANIES. COORDINATE WITH ALL UTILITY COMPANIES FOR NOTIFICATION REQUIREMENTS AND SPECIFICATIONS.
19. REFER TO THE SITE ELECTRICAL PLANS FOR SPECIFICATIONS OF THE PROPOSED SITE LIGHTING AND ELECTRICAL EQUIPMENT.
20. EXCAVATE DRAINAGE TRENCHES TO THE PROPOSED STORM SEWER ALIGNMENT.
21. REFER TO THE UTILITY PLANS FOR LAYOUT AND ELEVATIONS FOR PROPOSED SANITARY, WATER MAIN, AND OTHER BUILDING UTILITY SERVICE CONNECTIONS. REFER TO THE CONCRETE PLANS FOR DETAILS ON CONCRETE FOUNDATIONS.
22. EXCESS MATERIAL, MANHOLES, UTILITY PIPES, AND OTHER UNDESIRABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE CONSTRUCTION SITE.
23. WHERE STORM SEWER HAS LESS THAN A FEET OF COVER IN PAVED AREAS OR A FEET OF COVER IN LANDSCAPE AREAS, PROVIDE A MINIMUM OF 18-INCH VERTICAL SEPARATION MEETING REQUIREMENTS OF AAS 41-10.00 AND 21.1.1 (AAS 41-10.00 CLASS 55).
24. AS REQUIRED BY THE REVENING AUTHORITY, PERFORM AN AIR TEST ON THE RECONSTRUCTED STORM SEWER PIPE IN ACCORDANCE WITH STATE PLUMBING CODE.
25. AS REQUIRED BY THE REVENING AUTHORITY, PERFORM AN AIR TEST ON THE RECONSTRUCTED STORM SEWER PIPE IN ACCORDANCE WITH STATE PLUMBING CODE.

ENLARGEMENT A



ISSUED FOR PERMIT - NOT FOR CONSTRUCTION



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Liberty Classical Academy –
Phase 1: Lower School Addition
HUGO, MN



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197 SOUTH STREET, SUITE 100, ST. PAUL, MN 55104
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| ISSUES & REVISIONS | DATE |
|---------------------------|----------|
| 1 CITY SUBMITTAL | 4-14-23 |
| 2 CITY & BCWD RESUBMITTAL | 11-30-23 |
| 3 BCWD RESUBMITTAL | 03-29-24 |
| 4 BCWD RESUBMITTAL | 05-03-24 |
| 5 BCWD RESUBMITTAL | 05-29-24 |
| 6 CITY RESUBMITTAL | 06-12-24 |
| 7 CITY RESUBMITTAL | 07-12-24 |
| 8 CITY RESUBMITTAL | 10-07-24 |

DESIGNED BY: KIMLEY-HORN & ASSOCIATES, INC.
DRAWN BY: KIMLEY-HORN & ASSOCIATES, INC.
CHECKED BY: KIMLEY-HORN & ASSOCIATES, INC.
DATE: 10/07/24, 10/07/24, 10/07/24

COMMISSION NO: 160061004
DRAWN BY: GAR
CHECKED BY: MCB

SHEET
UTILITY PLAN

C600