

PRELIMINARY SITE CONSTRUCTION PLANS

FOR

GREYSTONE HEADQUARTERS

SHAKOPEE, MINNESOTA

JUNE 2020

CLIENT



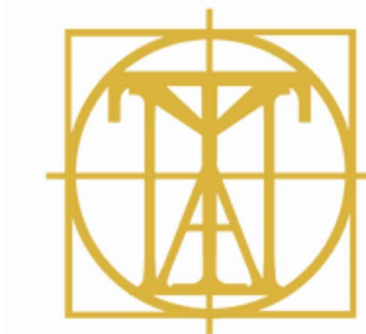
GREYSTONE CONSTRUCTION
500 S MARSHALL ROAD
SUITE 300
SHAKOPEE, MN 55379
(P) - 952-496-2227
CONTACT: BRYCE HOTZLER

ENGINEER



WENCK ASSOCIATES, INC.
7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
(P) - 763-252-6800
CONTACT: DAN LAVENDER, P.E.

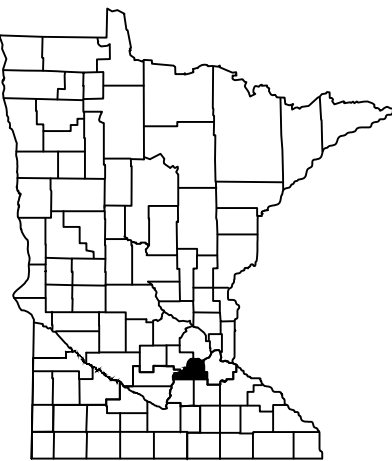
ARCHITECT



TUSHIE MONTGOMERY ARCHITECTS
7645 LYNDAL AVE S.
MINNEAPOLIS, MN 55423
(P) - 612-389-9489
CONTACT: EVAN JACOBSEN, AIA



VICINITY MAP NOT TO SCALE



PROJECT LOCATION

CITY: SHAKOPEE
COUNTY: SCOTT

THIS PLANSET CONTAINS 11 SHEETS

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WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG

GOPHER STATE ONE CALL

TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166



7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:



GREYSTONE
HEADQUARTERS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE

ISSUE NO.:

1

DESCRIPTION:

CITY SUBMITTAL

DATE:

06/19/2020

CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

LICENSE NO.:

DATE:

PROJECT NO.: 7733-20-500

DWN BY: MDH

CHK'D BY: JRA

APP'D BY: DML

ISSUE DATE: 06/19/2020

ISSUE NO.: 1

SHEET TITLE:

COVER SHEET

SHEET NO.:

G-001

GOVERNING SPECIFICATIONS

- 1. CITY OF SHAKOPEE STANDARD SPECIFICATIONS.
- 2. SHAKOPEE PUBLIC UTILITIES STANDARD SPECIFICATIONS AND WATER POLICY MANUAL.
- 3. MINNESOTA DEPARTMENT OF TRANSPORTATION (MNDOT) "STANDARD SPECIFICATIONS FOR CONSTRUCTION" LATEST EDITION AND SUPPLEMENTS.
- 4. CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD SPECIFICATIONS FOR UTILITIES LATEST EDITION.
- 5. APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES.

GENERAL NOTES

- 1. UNTIL REVISION BLOCK STATES "ISSUED FOR CONSTRUCTION" THE PLAN SET IS NOT CERTIFIED FOR CONSTRUCTION. EXISTING CONDITIONS SHOWN ARE FROM A COMPILATION OF TOPOGRAPHIC SURVEYS COMPLETED BY WENCK ASSOCIATES, INC., DATED JANUARY 17, 2020, AND WESTWOOD, DATED 2005. EXISTING FEATURES MAY NOT BE EXACT TO THEIR LOCATION, AND RECENT AND CONCURRENT CONSTRUCTION PROJECTS MAY BE MISREPRESENTED ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE CONDITIONS OF THE SITE AND MUST IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE DRAWINGS.
- 3. SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-2 ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA". EXACT LOCATION/DEPTH OF SUBSURFACE UTILITIES SUCH AS GAS, TELEPHONE, FIBER OPTIC, SEWER, WATER, PIPELINES, ELECTRICAL, AND CABLE TV ARE UNKNOWN AND THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE.
- 4. CONTRACTOR RESPONSIBLE FOR CONTACTING GOPHER STATE ONE CALL (1-800-252-1166) A MINIMUM OF 48 HOURS IN ADVANCE (EXCLUDING HOLIDAYS AND WEEKENDS) BEFORE STARTING WORK FOR LOCATIONS OF UNDERGROUND UTILITIES.
- 5. CONTRACTOR SHALL ANTICIPATE PRIVATE UTILITY CONFLICTS THROUGHOUT THE PROJECT SUB CUT AND TRENCH AREAS AND MUST COORDINATE THE RELAYATION OR PROTECTION OF EXISTING UTILITIES, OR INSTALLATION OF NEW UTILITIES WITH UTILITY OWNERS THAT MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE STARTING WORK. COSTS FOR SUCH WORK, INCLUDING EXTRA TIME AND EFFORT FOR PROVISIONS NECESSARY TO WORK AROUND OR UNDER UTILITIES, IS THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. FEES OR CHARGES WHICH ARE TO BE PAID TO THE UTILITY COMPANY, INCLUDING WORK THAT MUST BE PERFORMED BY THE UTILITY COMPANY, ARE AT NO ADDITIONAL COST TO THE OWNER.
- 6. QUANTITIES ARE APPROXIMATE, AND MAY VARY TO ALLOW COMPLETION OF WORK.
- 7. WORK AND MATERIALS MUST COMPLY WITH CITY, COUNTY, STATE, AND FEDERAL (INCLUDING OSHA) REGULATIONS AND CODES.
- 8. CONTRACTOR SHALL COORDINATE WORK WITH OTHER CONTRACTORS PERFORMING WORK AT OR NEAR THE SITE, INCLUDING BUT NOT LIMITED TO, THE CANTERBURY SOUTHWEST DEVELOPMENT.
- 9. CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS TO ADJACENT PROPERTIES THROUGHOUT CONSTRUCTION.
- 10. CONTRACTOR SHALL COORDINATE AND MAINTAIN MAIL, GARBAGE, AND RECYCLING SERVICES TO PROPERTIES THROUGHOUT CONSTRUCTION.
- 11. CONTRACTOR SHALL COORDINATE AND MAINTAIN STORMWATER DRAINAGE CONVEYANCE THROUGHOUT CONSTRUCTION (BOTH PIPED AND OVERLAND FLOW).
- 12. CONTRACTOR SHALL COORDINATE AND MAINTAIN WATER AND SANITARY FLOW TO AND FROM PROPERTIES. PROVIDE BYPASS AND TEMPORARY SYSTEMS, AS NECESSARY.
- 13. CONTRACTOR SHALL COORDINATE AND MAINTAIN UTILITY SERVICES TO ADJACENT PROPERTIES AT ALL TIMES. UTILITY SERVICE MUST NOT BE INTERRUPTED WITHOUT APPROVAL FROM OWNER, CITY, AND ADJACENT PROPERTIES.
- 14. CONTRACTOR SHALL COORDINATE WITH UTILITY SERVICES FOR SMALL UTILITY INSTALLATION.
- 15. CONSTRUCTION LIMITS ARE TO PROPERTY LINE UNLESS SHOWN OR NOTED OTHERWISE. CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITIES TO AREAS DESIGNATED ON PLANS WITHIN THE CONSTRUCTION LIMITS. THE CONSTRUCTION LIMITS EXTEND BEYOND THE PROPERTY LINE IN SOME PLACES ON THIS PROJECT.
- 16. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING PAVEMENT, SITE FEATURES, UTILITIES, TREES, ETC., UNLESS NOTED OR SHOWN OTHERWISE.
- 17. EXISTING PAVEMENT AND SITE CONDITIONS HAVE BEEN DOCUMENTED, AND ANY DAMAGE TO THE EXISTING PAVEMENT, CURBING, STRIPING, OR OTHER SITE FEATURE TO REMAIN MUST BE REPLACED BY THE CONTRACTOR, TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST TO THE OWNER.
- 18. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING CONSTRUCTION AND WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES.
- 19. CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS ARE TO BE MADE WITHOUT PRIOR APPROVAL FROM THE OWNER AND ENGINEER. FAILURE TO NOTIFY OWNER AND ENGINEER OF AN IDENTIFIABLE CONFLICT BEFORE PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- 20. CONTRACTOR SHALL HAVE ONE COPY OF EACH REQUIRED CONSTRUCTION PERMIT AND ONE COPY OF THE MOST CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT, SPECIAL CONDITIONS AND PROVISIONS, ETC.) AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- 21. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR IMPLEMENTATION AND ENFORCEMENT OF SAFE WORK PRACTICES, INCLUDING BUT NOT LIMITED TO PERSONNEL MONITORING, USE OF TRENCHING, SHEETING, AND SHORING, SCAFFOLDING, MATERIALS HANDLING AND DRILLING; OPERATION OF EQUIPMENT; AND SAFETY OF PUBLIC DURING PROGRESS OF WORK.
- 22. CONTRACTOR SHALL PLAN FOR AND ENSURE PERSONNEL COMPLY WITH PROVISIONS OF OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910) AND GENERAL CONSTRUCTION STANDARDS (29 CFR 1926) AS APPROPRIATE.
- 23. CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH WORK. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS FOR SAFETY OF EMPLOYEES ON PROJECT SITE AND OTHER PERSONS AND ORGANIZATIONS WHO MAY BE AFFECTED BY THE PROJECT. CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR SAFETY IN CONNECTION WITH WORK SHALL CONTINUE UNTIL SUCH TIME AS ALL WORK IS COMPLETED, AND ENGINEER HAS ISSUED NOTICE TO CONTRACTOR THAT WORK IS COMPLETE.
- 24. HAZARDOUS MATERIALS, INCLUDING BUT NOT LIMITED TO OIL, GASOLINE, PAINT AND OTHER HAZARDOUS SUBSTANCES MUST BE PROPERLY STORED, BY THE CONTRACTOR, INCLUDING SECONDARY CONTAINMENTS, TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS TO STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH MPCA REGULATIONS. CONTRACTOR SHALL REMOVE SPILL OF FUELS, OILS, OR OTHER CHEMICALS IMMEDIATELY UPON DETECTION.
- 25. CONTRACTOR SHALL DOCUMENT AND MAINTAIN AS-BUILT INFORMATION AS CONSTRUCTION PROGRESSES AND IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER AS REQUIRED BY JURISDICTIONAL AGENCIES FOR CERTIFICATION. ALL AS-BUILT DATA MUST BE COLLECTED BY A STATE OF MN PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED AND PAID FOR BY THE CONTRACTOR.

TYPICAL OWNER/ENGINEER/CITY OBSERVATIONS

- 1. CONTRACTOR MUST NOTIFY OWNER, ENGINEER, AND CITY A MINIMUM OF 48 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES FOR ATTENDANCE AND OBSERVATION:
 - A. PRE-CONSTRUCTION MEETING
 - B. UNDERGROUND PIPING AND UTILITIES INSTALLATION
 - C. UTILITY TESTING
 - D. STRUCTURES AND APPURTENANCES INSTALLATION
 - E. SUBGRADE PREPARATION
 - F. BASE INSTALLATION
 - G. PAVEMENT INSTALLATION

SITE NOTES

- 1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- 2. REFER TO THE ARCHITECTURAL, STRUCTURAL, LANDSCAPE, AND MEP PLANS FOR EXACT LOCATIONS OF AND DIMENSIONS OF BUILDINGS, VESTIBULES, STOOPS, OVERHANGS, COLUMNS, RAMPS, SIDEWALKS, TRASH ENCLOSURES, TRAFFIC GATES, MONUMENT SIGNS, LANDSCAPING, PLANTINGS, TREES, SITE LIGHTING, EXTERIOR ELECTRICAL, BACKFLOW PREVENTORS AND BUILDING UTILITY ENTRANCE LOCATIONS.
- 3. EQUIPMENT PAD ELEVATIONS SHOWN ON GRADING PLAN. EQUIPMENT PAD STRUCTURAL/CONCRETE DESIGN BY OTHERS. COORDINATE WITH ARCHITECT.
- 4. CONTRACTOR SHALL PROVIDE HIGH EARLY CONCRETE FOR ALL DRIVEWAYS.
- 5. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

REMOVAL/DEMOLITION NOTES

- 1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- 2. CONTRACTOR SHALL OBTAIN PERMITS REQUIRED FOR DEMOLITION, REMOVAL AND DISPOSAL.
- 3. CONTRACTOR SHALL REVIEW FEATURES NOT SPECIFICALLY IDENTIFIED ON PLAN FOR SALVAGE OR REMOVAL THAT CONFLICT WITH CONSTRUCTION WITH THE ENGINEER.
- 4. MATERIALS REMOVED/DEMOLISHED BY CONTRACTOR BECOME PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL LOAD AND HAUL MATERIAL OFF-SITE AND PROPERLY DISPOSE OF MATERIALS IN ACCORDANCE WITH APPLICABLE REGULATIONS. CONTRACTOR MUST LEAVE THE SITE IN A CONDITION TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- 5. CONTRACTOR SHALL SAWCUT FULL DEPTH AT PAVEMENT REMOVAL LIMITS AND AS NECESSARY TO CREATE A SMOOTH FIT/TRANSITION ALONG MATCHING PAVEMENT AREAS.
- 6. CONTRACTOR SHALL COORDINATE UTILITY REMOVAL WORK WITH APPROPRIATE UTILITY OWNER.
- 7. CONTRACTOR SHALL SALVAGE AND REINSTALL STREET AND TRAFFIC SIGNS IN CONFLICT WITH CONSTRUCTION ACTIVITIES AS NOTED OR AS DIRECTED BY ENGINEER. IF SIGNS ARE DAMAGED DURING CONSTRUCTION, CONTRACTOR REQUIRED TO PROVIDE NEW SIGNS AT NO ADDITIONAL COST TO THE OWNER.
- 8. CONTRACTOR SHALL SALVAGE AND REINSTALL FENCE IN CONFLICT WITH CONSTRUCTION ACTIVITIES AS NOTED OR AS DIRECTED BY ENGINEER. IF FENCE IS DAMAGED DURING CONSTRUCTION, CONTRACTOR REQUIRED TO PROVIDE NEW FENCE, TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST TO THE OWNER.
- 9. IN THE EVENT THAT UNKNOWN CONTAINERS OR TANKS ARE ENCOUNTERED, THE CONTRACTOR MUST CONTACT THE ENGINEER IMMEDIATELY. ALL CONTAINERS OR TANKS MUST BE DISPOSED OF PROPERLY AT A REGULATED/PERMITTED FACILITY.
- 10. CONTRACTOR SHALL REVIEW ALL TREE REMOVALS WITH THE OWNER AND ENGINEER PRIOR TO REMOVAL OPERATIONS.
- 11. CLEARING AND GRUBBING OPERATIONS MUST COMPLY WITH THE FOLLOWING:
 - A. PROTECT ALL TREES AND PLANTS NOT DESIGNATED FOR REMOVAL.
 - B. CONDUCT OPERATIONS IN SUCH A MANNER THAT DOES NOT DAMAGE PROTECTED TREES AND VEGETATION.
 - C. CUT, REMOVE, AND DISPOSE OF TREES, BRUSH, SHRUBS, WINDFALLS, LOGS, STUMPS, ROOTS, FALLEN TIMBER, AND OTHER VEGETATION.
 - D. BACKFILL DEPRESSIONS WITH SUITABLE FILL MATERIAL AS REQUIRED BY DESIGN OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND COMPACT BACKFILL AS DIRECTED.
 - E. DISPOSE OF DEBRIS IN ACCORDANCE WITH APPLICABLE REGULATIONS.
 - F. CONSIDER BENEFICIAL USE DESIGNATIONS FOR UNADULTERATED WOOD, WOOD CHIPS, BARK AND SAWDUST.
 - G. NO BURYING OF CLEARED AND GRUBBED WASTE WITHIN THE CONSTRUCTION LIMITS.
- 12. UNLESS OTHERWISE NOTED, CONTRACTOR IS RESPONSIBLE FOR REMOVAL/DEMOLITION WITHIN ALL AREAS OF PROPOSED IMPROVEMENTS. REMOVAL LIMITS ARE IDENTIFIED ON THE DRAWINGS IN ANTICIPATED LOCATIONS. CONTRACTOR RESPONSIBLE FOR REMOVALS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS AND CONFORM TO DESIGN REQUIREMENTS. ALL FACILITIES TO BE REMOVED MUST BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE FILL MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

TRAFFIC CONTROL NOTES

- 1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- 2. CONTRACTOR SHALL COORDINATE CONSTRUCTION STAGING, ON OR OFFSITE, AS NECESSARY TO COMPLETE THE WORK. IF OFFSITE STAGING AREA IS REQUIRED, CONTRACTOR IS RESPONSIBLE TO FIND, OBTAIN, AND PAY FOR NECESSARY STAGING AREA AT NO ADDITIONAL COST TO THE OWNER. SUBMIT A STAGING PLAN TO THE ENGINEER FOR REVIEW BEFORE STARTING WORK.
- 3. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL. TRAFFIC CONTROL MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MN MUTCD, INCLUDING LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS. SUBMIT TRAFFIC CONTROL PLAN TO CITY AND ENGINEER FOR REVIEW BEFORE CONSTRUCTION RELATED ACTIVITIES. PLANS MUST COMPLY WITH APPLICABLE PERMIT REQUIREMENTS. TRAFFIC CONTROL INCLUDES NECESSARY SIGNAGE AND MARKINGS FOR SIDEWALKS, TRAILS, BOARDWALKS, ETC. CLOSURE. THIS MUST INCLUDE ADVANCED WARNING SIGNS AND NECESSARY FENCING AND SIGNAGE TO PREVENT PEDESTRIANS FROM ACCESSING THE PROPOSED AREA.
- 4. CONTRACTOR MUST SCHEDULE WORK IMPACTING SHENANDOAH DRIVE OR VIERLING DRIVE WITH THE OWNER, CITY, AND ENGINEER. CLOSURES OR DETOURS MUST BE APPROVED BY OWNER AND CITY, PRIOR TO STARTING WORK.
- 5. CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC ON SHENANDOAH DRIVE AND VIERLING DRIVE AT ALL TIMES.

EROSION CONTROL NOTES

- 1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- 2. CONTRACTOR SHALL CONFORM TO AND CONDUCT INSPECTIONS IN ACCORDANCE WITH THE NPDES PERMIT AND SWPPP REQUIREMENTS.
- 3. BEFORE SITE DISTURBANCE AND AS REQUIRED AS CONSTRUCTION PROGRESSES, CONTRACTOR SHALL INSTALL, MAINTAIN, REPAIR, AND REPLACE EROSION PREVENTION MEASURES AND SEDIMENT CONTROL DEVICES (INLET PROTECTION, CONSTRUCTION ENTRANCE, SILT FENCE, EROSION CONTROL BLANKET, ETC.) IN ACCORDANCE WITH THE SWPPP, NPDES PERMIT, AND CITY, STATE, AND WATERSHED DISTRICT PERMITS.
- 4. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION. COORDINATE WITH ENGINEER.
- 5. CONTRACTOR SHALL STABILIZE ALL EXPOSED SOIL AREAS WITHIN THE CONSTRUCTION LIMITS WITHIN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE THAT HAS TEMPORARILY (WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS) OR PERMANENTLY CEASED. STABILIZATION MUST BE INITIATED PROMPTLY. REFER TO LANDSCAPE PLANS FOR FINAL GROUND COVER MATERIALS.
- 6. CONTRACTOR SHALL REMOVE ANY SEDIMENT THAT HAS TRACKED ONTO PAVED SURFACES BOTH ON AND OFFSITE WITHIN 24 HOURS AND AS DIRECTED BY CITY. SWEEP STREET IN ACCORDANCE WITH CITY, AND NPDES PERMIT REQUIREMENTS. STREET SWEEPING IS NOT TO BE USED AS A PRIMARY BMP FOR SEDIMENT TRACKING. IF SEDIMENT IS TRACKED OFFSITE, WORK WILL CEASE UNTIL PROPER EROSION CONTROL AND SEDIMENT CONTROL DEVICES ARE INSTALLED AND/OR BEING MAINTAINED TO PREVENT TRACKING BEYOND THE SITE'S PERIMETER (CONTAINMENT AREA). ALL STREET SWEEPING MUST BE PERFORMED UTILIZING A PICK-UP SWEEPER. IF NECESSARY, WATER WILL ALSO BE USED TO CLEAN UP THE STREETS PRIOR TO BEING SWEEPED TO ENSURE THEY ARE FULLY CLEARED.
- 7. CONTRACTOR SHALL COMPLETE CONCRETE WASH-OUT OFF-SITE OR PROVIDE SELF-CONTAINED CONCRETE READY MIX TRUCKS.
- 8. CONTRACTOR SHALL MINIMIZE DUST FROM CONSTRUCTION OPERATIONS BY PROVIDING WATER OR OTHER APPROVED METHOD ON A DAILY BASIS.
- 9. CONTRACTOR SHALL PHASE GRADING WORK TO MINIMIZE THE DURATION THAT DISTURBED SOIL IS EXPOSED.
- 10. CONTRACTOR SHALL LOCATE SOIL STOCKPILES NO LESS THAN 50 FEET FROM ROADWAYS, STORMWATER INLETS, PONDS, WETLANDS, DRAINAGE CHANNELS, AND OTHER SURFACE WATERS. IF REMAINING FOR MORE THAN 7 DAYS, STABILIZE THE STOCKPILES BY MULCHING, VEGETATED COVER, TARPS, OR OTHER MEANS IN ACCORDANCE WITH THE NPDES PERMIT. PLACE PERIMETER SEDIMENT CONTROLS AROUND STOCKPILES TO CONTROL EROSION. COVER TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES IF LEFT FROM MORE THAN 24 HOURS.
- 11. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES AFTER SITE HAS BEEN STABILIZED AND VEGETATION IS ESTABLISHED AS DIRECTED BY ENGINEER. EROSION CONTROL MEASURES USED FOR CONSTRUCTION MUST NOT BE REMOVED UNTIL AUTHORIZED BY OWNER OR ENGINEER.
- 12. CONTRACTOR SHALL SUBMIT THE NOTICE OF TERMINATION AT THE COMPLETION OF THE PROJECT IN ACCORDANCE WITH THE NPDES PERMIT AND SWPPP REQUIREMENTS.
- 13. EROSION CONTROL SHALL MEET THE FOLLOWING REQUIREMENTS:
 - A. SILT FENCE: MNDOT SPECS 2573 AND 3886, TYPE MS MACHINE SLICED.
 - B. SEDIMENT CONTROL LOG (BIOROLL): MNDOT SPECS 2573 AND 3897, TYPE STRAW. STRAW BIOROLLS, 8 TO 9 INCHES IN DIAMETER, MINIMUM 10 FEET LONG, FILLED WITH GRAIN STRAW, FREE OF SEED-BEARING STALKS OF NOXIOUS GRASSES OR WEEDS WITH NATURAL FIBER OUTER NETTING.
 - C. EROSION CONTROL BLANKET: MNDOT SPECS 2575 AND 3885, CATEGORY 3N STRAW 2S (NATURAL NETTING ONLY)
 - D. MULCH: MNDOT SPECS 2575 AND 3882, TYPE 1, TWO TONS PER ACRE, DISK ANCHORED IN AREAS THAT DO NOT RECEIVE EROSION CONTROL BLANKET.
 - 1) CERTIFIED BY MINNESOTA CROP IMPROVEMENT ASSOCIATION (MCIA).
 - 2) HYDRAULIC SOIL STABILIZER MAY BE USED IN LIEU OF MULCH WITH APPROVAL OF THE ENGINEER.
 - E. TEMPORARY SEED: MNDOT SPECS 2575 AND 3876, STATE SEED MIX 22-111 TWO-YEAR STABILIZATION.

UTILITY NOTES

- 1. CONTRACTOR SHALL COMPLY WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE CITY OF SHAKOPEE, SHAKOPEE PUBLIC UTILITIES, CEAM, AND MINNESOTA PLUMBING CODE (MINNESOTA RULES CHAPTER 4714) FOR MATERIALS, INSTALLATION, AND TESTING OF WATER AND SANITARY UTILITIES.
 - 2. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 9'-0" COVER ON ALL SANITARY SEWER AND SERVICES, UNLESS OTHERWISE NOTED.
 - A. PROVIDE INSULATION OVER SANITARY SEWER AND SERVICES WITH PROPOSED ELEVATIONS LESS THAN MINIMUM BURY DEPTH PER PROJECT DETAILS.
 - 3. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 7'-6" COVER ON ALL WATERLINES, UNLESS OTHERWISE NOTED. NO HYDRANT OR VALVE EXTENSIONS ARE ALLOWED UNLESS PRIOR APPROVAL IS GIVEN BY SPU. HYDANTS SHALL BE SET TO PROPER DEPTH INITIALLY AND CHECKED BY ENGINEER PRIOR TO ROAD BASE WORK. NO PIPE MAY BE PLACES AT LESS THAN MINIMUM BURY DEPTH. INSULATION IS NOT PERMITTED BY SPU.
 - A. PROVIDE INSULATION OVER WATERMAIN AND SERVICES WITH PROPOSED ELEVATIONS LESS THAN MINIMUM BURY DEPTH PER PROJECT DETAILS.
 - 4. CONTRACTOR SHALL PROVIDE 10 FEET MINIMUM HORIZONTAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE/STRUCTURE) BETWEEN WATER LINES AND SANITARY OR STORM LINES AND STRUCTURES.
 - 5. CONTRACTOR SHALL PROVIDE 18 INCH MINIMUM VERTICAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE) BETWEEN WATER LINES AND OTHER UTILITY LINE CROSSINGS. PROVIDE INSULATION WHERE WATER, SANITARY, OR STORM UTILITIES CROSS. OFFSET WATERMAIN AND SERVICES AS NECESSARY, AND REFERENCE SPU DETAIL WAT-012 FOR OFFSET REQUIREMENTS.
 - 6. PIPE LENGTH INDICATED BETWEEN STRUCTURES IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS NOTED OTHERWISE.
 - 7. CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL SEWER AND WATER MAINS, LATERALS, SERVICE PIPE AND CONNECTIONS TO RISERS, CURB BOXES, MANHOLES, VALVES, HYDRANTS PER CITY OF SHAKOPEE AND SHAKOPEE PUBLIC UTILITIES REQUIREMENTS AND PROJECT DETAILS.
 - 8. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE WATER LINE MUST INCLUDE ONE FULL LENGTH OF PIPE SO BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE AND SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE MINIMUM CLEARANCE.
 - 9. WATERMAINS AND SERVICES SHALL NOT HAVE ANY INTERMITTENT HIGH POINTS, EXCEPT AT HYDRANTS OR AS NOTED AT SPECIFIC LOCATIONS ON THE PLANS.
 - 10. CONTRACTOR SHALL VERIFY PIPE SIZE, MATERIAL, AND ELEVATION FOR ALL CONNECTIONS. PROVIDE APPROPRIATE PIPES AND FITTINGS REQUIRED TO MAKE CONNECTIONS TO EXISTING INFRASTRUCTURE AS VERIFIED IN THE FIELD IN ACCORDANCE WITH CITY OF SHAKOPEE AND SHAKOPEE PUBLIC UTILITIES REQUIREMENTS.
 - 11. SANITARY SEWER AND WATER SERVICES ARE SHOWN TERMINATING AT THE BUILDING FOOTPRINT. VERIFY WITH MEP/PLUMBING PLANS/DESIGNER FOR EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS OF BACKFLOW DEVICES (DDCV AND PRZ ASSEMBLIES), METERS, AND BUILDING UTILITY ENTRANCE LOCATIONS. PROVIDE A RISER PIPE AS NEEDED TO MATCH PLUMBING PIPING.
 - 12. SANITARY AND WATER SERVICE SIZES AND ALIGNMENT ARE PRELIMINARY. CONTRACTOR TO DETERMINE FINAL SIZING AND ALIGNMENT W/ MEP DESIGN. IN THE EVENT THE FINAL SIZE OR ALIGNMENT IS DIFFERENT THAN PRELIMINARY, CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY.
 - 13. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED PRIOR TO BACKFILLING IN ACCORDANCE WITH ALL AGENCIES HAVING JURISDICTION REQUIREMENTS.
 - 14. CONTRACTOR SHALL PLACE AND COMPACT SUITABLE FILL MATERIAL BEFORE INSTALLATION OF PROPOSED UTILITIES.
 - 15. SANITARY SEWER MAIN, SERVICE PIPES, AND FITTINGS SHALL MEET THE FOLLOWING REQUIREMENTS:
 - A. SEWER SERVICE PIPING (PER MN PLUMBING CODE):
 - 1) PVC SCHEDULE 40 PER ASTM D 1785
 - B. SEWER MAIN PIPING (PER MPCA SEWER EXTENSION PERMIT):
 - 1) 8 INCH DIA. AND LARGER, PVC SDR35 PER ASTM D 3034, PIPES LESS THAN 16 FEET DEEP
 - 2) 8 INCH DIA. AND LARGER, PVC SDR26 PER ASTM D 3034, PIPES BETWEEN 16 FEET AND 25 FEET DEEP
 - 3) 8 INCH DIA. AND LARGER, PVC C900 DR 18 PER AWWA C 900, PIPES GREATER THAN 25 FEET DEEP
 - C. FITTINGS: ASTM D 2665 FOR SDR AND SCH 40 PIPE
 - D. GASKETS: ASTM F 477 FOR SDR AND C900 PIPE
 - E. JOINTS: ASTM D 3212 FOR SDR PIPE
 - F. TRACER WIRE: CEAM 2611, CITY OF SHAKOPEE REQUIREMENTS. TRACER WIRE MUST BE A MINIMUM 12 AWG COPPER CLAD STEEL RATED TO 30 VOLTS, HMWPE MEETING ASTM D 1248, UL LISTED FOR USE IN DIRECT BURIAL APPLICATION, WITH DESIGNATION ON THE OUTSIDE OF THE WIRE CASING AND FOLLOW APWA COLOR CODE.
 - G. BEDDING: ASTM D 2321, PROJECT DETAILS AND SPECIFICATIONS.
 - 16. WATERMAIN, SERVICE PIPES AND FITTINGS TO MEET THE FOLLOWING REQUIREMENTS:
 - A. MAINS: DUCTILE IRON PIPE CLASS 52 PER AWWA C151 AND C104
 - B. SERVICES: DUCTILE IRON PIPE CLASS 52 PER AWWA C150, C151 AND C104
 - C. FITTINGS: AWWA C153, 250 PSI WORKING PRESSURE WITH COATING PER AWWA C116
 - D. JOINTS: AWWA C111 WITH MECHANICAL JOINTS AND THRUST BLOCKING PER PROJECT DETAILS.
 - E. STUBS: MECHANICALLY RESTRAINED JOINTS WITH THRUST BLOCKING PER PROJECT DETAILS.
 - A. TRACER WIRE: NOT REQUIRED ON DUCTILE IRON PIPE, PER SPU. ENSURE DUCTILE IRON PIPE PASSES CONDUCTIVITY TEST.
 - F. ENCASEMENT: POLYETHYLENE FILM PER AWWA C105. ENCASE DUCTILE IRON PIPE, FITTINGS, VALVES, AND OTHER APPURTENANCES.
 - G. JOINT RESTRAINT: PROVIDE AT ALL BENDS, TEES, AND DEAD-ENDS/STUBS IN ACCORDANCE WITH THE REQUIREMENTS OF CEAM AND EBAA IRON RESTRAINT LENGTH CALCULATOR.
 - H. BEDDING: ASTM D 2321, AWWA C150 AND C151, PROJECT DETAILS AND SPECIFICATIONS.
 - I. THRUST BLOCKING: WATERMAIN AND SERVICES REQUIRE THRUST BLOCKING PER PROJECT DETAILS. CONCRETE MUST HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 PSI.
 - J. HYDRANTS: PER CITY AND SPU REQUIREMENTS.
 - K. VALVES: PER CITY AND SPU REQUIREMENTS.
17. CONTRACTOR SHALL INSTALL PVC PIPING IN ACCORDANCE WITH CEAM, ASTM D 2321 AND ASTM F 1668 (FOR GRAVITY SEWER) AND PROJECT DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL INSTALL DUCTILE PIPE IN ACCORDANCE WITH CEAM, AWWA C600, AND PROJECT DETAILS.
18. CONTRACTOR SHALL COMPACT EMBEDMENT/BEDDING/BACKFILL MATERIAL TO THE SPECIFIED DENSITY METHOD IN ACCORDANCE WITH MNDOT 2105 AND THE GEOTECHNICAL REPORT.
19. TESTING, INSPECTIONS, AND CERTIFICATIONS MUST COMPLY WITH THE FOLLOWING:
 - A. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, AGENCY HAVING JURISDICTION AND UTILITY PROVIDER COMPANIES.
 - B. SANITARY LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO:
 - 1) SERVICE PIPE AND STRUCTURES TESTING TO MEET MN PLUMBING CODE CHAPTER 7 SECTIONS 712 AND 723 REQUIREMENTS
 - 2) LEAKAGE TESTING TO MEET CITY OF SHAKOPEE AND SHAKOPEE PUBLIC UTILITIES REQUIREMENTS
 - 3) DEFLECTION TESTING TO MEET CITY OF SHAKOPEE REQUIREMENTS
 - 4) TELEVISION INSPECTION TO MEET CITY OF SHAKOPEE REQUIREMENTS
 - 5) CONDUCTIVITY TESTING TO MEET CITY OF SHAKOPEE REQUIREMENTS
 - C. WATER LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO:
 - 1) HYDROSTATIC PRESSURE TESTING TO MEET CITY OF SHAKOPEE AND SHAKOPEE PUBLIC UTILITIES REQUIREMENTS
 - 2) DISINFECTION OF THE WATER SYSTEM TO MEET CITY OF SHAKOPEE AND SHAKOPEE PUBLIC UTILITIES REQUIREMENTS, MN PLUMBING CODE CHAPTER 6 SECTION 609.9, AND MINNESOTA DEPARTMENT OF HEALTH REQUIREMENTS
 - 3) CONDUCTIVITY TESTING TO MEET CITY OF SHAKOPEE AND SHAKOPEE PUBLIC UTILITIES REQUIREMENTS
 - D. A COPY OF THE TEST RESULTS MUST BE PROVIDED TO THE OWNER, ENGINEER, CITY OF SHAKOPEE, SHAKOPEE PUBLIC UTILITIES, AND AGENCY HAVING JURISDICTION.
20. CONTRACTOR SHALL PROVIDE AND INSTALL A FLEXIBLE COMPRESSION JOINT TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES IN ACCORDANCE WITH MINNESOTA PLUMBING CODE CHAPTER 7, SECTION 719.6. RESILIENT RUBBER JOINTS MAY BE USED IF APPROVED BY AGENCY HAVING JURISDICTION.
21. TOLERANCES:
 - A. SANITARY PIPE
 - 1) HORIZONTAL - WITHIN 0.50 FEET OF ALIGNMENT
 - 2) VERTICAL - ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN WITH NO INTERMEDIATE HIGH POINTS, LEVEL SECTION, OR REVERSE INVERT SLOPE.
 - 3) JOINT DEFLECTION - NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
 - B. SANITARY STRUCTURE
 - 1) RIM ELEVATIONS - ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN.
 - C. WATER PIPE
 - 1) HORIZONTAL - WITHIN 0.50 FEET OF ALIGNMENT

UTILITY NOTES (cont'd)

- 2) VERTICAL - 0 FEET PLUS AND 1 FEET MINUS ELEVATION SHOWN, WHILE MEETING THE MINIMUM SEPARATION REQUIREMENTS AT CROSSINGS.
- 3) JOINT DEFLECTION: NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
- D. HYDRANTS/VALVES/CURB STOPS/TRACER WIRE ACCESS BOXES/CASTINGS:
 - 22. WITHIN 0.05 FEET OF FINAL ELEVATION VALVE/TRACER WIRE BOXES, CURB STOPS, AND CASTINGS SHALL NOT EXTEND ABOVE FINAL PAVED SURFACE ELEVATION.

STORM SEWER NOTES

- 1. CONTRACTOR SHALL COMPLY WITH THE SPECIFICATIONS OF THE CITY OF SHAKOPEE, CEAM, AND MINNESOTA PLUMBING CODE (MINNESOTA RULES CHAPTER 4714) FOR MATERIALS, INSTALLATION, AND TESTING OF STORM UTILITIES
- 2. CONTRACTOR SHALL PROVIDE 10 FEET MINIMUM HORIZONTAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE/STRUCTURE) BETWEEN WATER LINES AND SANITARY OR STORM LINES AND STRUCTURES.
- 3. CONTRACTOR SHALL PROVIDE 18 INCH MINIMUM VERTICAL SEPARATION (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE/STRUCTURE) BETWEEN WATER LINES AND OTHER UTILITY LINES. PROVIDE INSULATION WHERE WATER, SANITARY, OR STORM UTILITIES CROSS. OFFSET WATERMAIN AND SERVICES AS NECESSARY.
- 4. CONTRACTOR SHALL VERIFY PIPE SIZE, MATERIAL, AND ELEVATION FOR CONNECTIONS. PROVIDE APPROPRIATE PIPES AND FITTINGS REQUIRED TO MAKE CONNECTIONS TO EXISTING INFRASTRUCTURE AS VERIFIED IN THE FIELD.
- 5. CONTRACTOR SHALL PROVIDE AND INSTALL A FLEXIBLE COMPRESSION JOINT TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, SECTION 719.6. RESILIENT RUBBER JOINTS MEETING ASTM C 923 MAY BE USED IF APPROVED BY AGENCY HAVING JURISDICTION, SEE PROJECT DETAILS.
- 6. CONTRACTOR SHALL PLACE AND COMPACT SUITABLE FILL MATERIAL BEFORE INSTALLATION OF PROPOSED UTILITIES.
- 7. CONTRACTOR SHALL PROVIDE 4 INCHES THICK OF INSULATION CENTERED ON STORM PIPE IF LESS THAN 4 FEET OF COVER IN PAVEMENT AREAS AND LESS THAN 3 FEET OF COVER IN LANDSCAPE AREAS PER PROJECT DETAILS.
- 8. CONTRACTOR IS RESPONSIBLE FOR PROPERLY LOCATING AND INSTALLING CATCH BASINS SO THAT THE INLET FRAME AND GRATE PROPERLY ALIGN WITH CURB AND GUTTER.
- 9. DRAIN TILE/SUBSOIL DRAIN AROUND BUILDING PERIMETER NOT SHOWN ON CIVIL DRAWINGS. CONTRACTOR SHALL VERIFY IF DRAIN TILE REQUIRED WITH ARCHITECT/STRUCTURAL/MEP AND COORDINATE CONNECTION TO STORM SYSTEM WITH ENGINEER.
- 10. INSTALL SUBSOIL DRAINS/DRAIN TILE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT (LOCATIONS NOT SHOWN ON PLANS).
- 11. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED PRIOR TO BACKFILLING IN ACCORDANCE WITH CITY OF SHAKOPEE REQUIREMENTS.
- 12. PIPE LENGTH INDICATED BETWEEN STRUCTURES IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS NOTED OTHERWISE. PIPE LENGTH INDICATED BETWEEN STRUCTURE AND FLARED END SECTION IS FROM CENTER OF STRUCTURE TO END OF FLARED END SECTION.
- 13. STORM SEWER MAINS, SERVICE PIPES, AND FITTINGS TO MEET THE FOLLOWING REQUIREMENTS:
 - A. SITE PIPING:
 - 1) 12 INCH DIA. AND LARGER, REINFORCED CONCRETE (RC) PIPE CLASS 5 WALL B PER CEAM SPECIFICATIONS AND ASTM C 76, OR AS NOTED ON THE PLAN. WHERE STORM PIPE CROSSES OVER WATER PIPE, STORM PIPE MUST BE PVC SCH 40.
 - 2) 6 INCH DIA. AND SMALLER, AS NOTED ON THE DRAWING, PVC SCH 40 PER ASTM D 1785 AND ASTM D2665.
 - B. ROOF DRAIN LEADER PIPING AND FITTINGS: PVC SCH 40 PER ASTM D 1785 AND ASTM D 2665.
 - C. JOINTS: JOINTS MUST BE CERTIFIED BY THE MANUFACTURER TO BE ABLE TO PASS THE AIR TEST OR INTERNAL HYDROSTATIC PRESSURE REQUIRED BY THE AGENCY HAVING JURISDICTION.
 - D. SUBSOIL DRAINS: SLOTTED PVC SCH 40 OR SDR 26 IN ACCORDANCE WITH ASTM D 2729.
 - 1) COARSE FILTER AGGREGATE: MNDOT SPEC 3149.2.H.
 - 2) GEOTEXTILE FABRIC WRAP: MNDOT SPEC 3733, TYPE 1
 - E. BEDDING: CONTRACTOR SHALL INSTALL PVC AND HDPE PIPING IN ACCORDANCE WITH CEAM, ASTM D 2321 AND ASTM F 1668 (FOR GRAVITY SEWER), AND PROJECT DETAILS. CONTRACTOR SHALL INSTALL RC PIPE IN ACCORDANCE WITH CEAM, ASTM C 1479, AND PROJECT DETAILS.
 - F. TRACER WIRE: CEAM 2611 AND CITY OF SHAKOPEE REQUIREMENTS AND PROJECT DETAILS. TRACER WIRE MUST BE A MINIMUM 12 AWG COPPER CLAD STEEL RATED TO 30 VOLTS, HMWPE MEETING ASTM D 1248, UL LISTED FOR USE IN DIRECT BURIAL APPLICATION, WITH DESIGNATION ON THE OUTSIDE OF THE WIRE CASING AND FOLLOW APWA COLOR CODE.
 - G. CONTRACTOR SHALL INSTALL TRACER WIRE ON ALL SEWER MAINS, LATERALS, SERVICE PIPE AND CONNECTED TO RISERS, MANHOLES PER CEAM AND CITY OF SHAKOPEE REQUIREMENTS AND PROJECT DETAILS. TRACER WIRE MUST BE UL LISTED FOR USE IN DIRECT BURIAL APPLICATION.
- 14. TESTING, INSPECTIONS, AND CERTIFICATIONS MUST COMPLY WITH THE FOLLOWING:
 - A. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, AGENCY HAVING JURISDICTION AND UTILITY SERVICE COMPANIES.
 - B. STORM LINES AND STRUCTURES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - 1) SERVICE PIPE AND ROOF DRAIN LEADERS TESTING TO COMPLY WITH MN PLUMBING CODE CHAPTER 7 SECTION 712 AND CHAPTER 11 SECTION 1109
 - 2) ALL PORTIONS OF SYSTEM (PIPE AND STRUCTURES) THAT PASS WITHIN 10 FEET OF A WATER LINE, WITHIN 10 FEET OF A BUILDING, WITHIN 50 FEET OF WATER WELLS, OR THAT PASS THROUGH SOIL OR WATER IDENTIFIED AS BEING CONTAMINATED MUST BE TESTED IN ACCORDANCE WITH MN PLUMBING CODE CHAPTER 11 SECTION 1109.
 - 3) DEFLECTION TESTING TO MEET CITY OF SHAKOPEE REQUIREMENTS
 - 4) TELEVISION INSPECTION TO MEET CITY OF SHAKOPEE REQUIREMENTS
 - 5) CONDUCTIVITY TESTING TO MEET CITY OF SHAKOPEE REQUIREMENTS
 - C. A COPY OF THE TEST RESULTS MUST BE PROVIDED TO THE OWNER, ENGINEER, UTILITY PROVIDER, AND AGENCY HAVING JURISDICTION.
- 15. REFER TO THE MEP PLANS FOR EXACT LOCATIONS, ELEVATIONS, AND DIMENSIONS OF BUILDING UTILITY ENTRANCE LOCATIONS.
- 16. CONTRACTOR SHALL CLEAN STRUCTURES AND PIPING OF DEBRIS AND SEDIMENT DURING AND AT THE END OF CONSTRUCTION UNTIL APPROVED BY THE OWNER AND ENGINEER.
- 17. TOLERANCES:
 - A. STORM SEWER PIPE
 - 1) HORIZONTAL - WITHIN 0.50 FEET OF ALIGNMENT
 - 2) VERTICAL - ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN WITH NO INTERMEDIATE HIGH POINTS, LEVEL SECTION, OR REVERSE INVERT SLOPE.
 - 3) JOINT DEFLECTION - NO MORE THAN 75% OF MAXIMUM ALLOWABLE, AS RECOMMENDED BY MANUFACTURERS OF PIPE AND JOINT MATERIAL
 - B. STORM STRUCTURE
 - 1) RIM ELEVATIONS - ZERO PLUS AND 0.08 FEET MINUS ELEVATION SHOWN.

SEE SHEET C-003 FOR CONTINUED NOTES

WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG

GOPHER STATE ONE CALL

TWIN CITY AREA: 651-454-0002
TOLL FREE: 1-800-252-1166



7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:



GREYSTONE
CONSTRUCTION

PROJECT TITLE

GREYSTONE
HEADQUARTERS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

DATE:	DESCRIPTION:	ISSUE NO.:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
06/19/2023	CITY SUBMITTAL	1																														

CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

LICENSE NO.:

DATE:

PROJECT NO.:

7733-20-500

DWN BY: MDH

CHK'D BY: JRA

APP'D BY: DMIL

ISSUE DATE:

06/19/2020

ISSUE NO.:

1

SHEET TITLE:

GENERAL NOTES

SHEET NO.:

G-002

TREE PRESERVATION NOTES

- 1. CONTRACTOR SHALL PROTECT EXISTING TREES THAT ARE NOT TO BE REMOVED. INSTALL ORANGE MESH FENCING, 4 FEET HIGH, WITH STAKES EVERY 10 FEET, 5 FEET OUTSIDE OF THE DRIP LINE OF PRESERVED TREES, OR AT THE CONSTRUCTION LIMITS. DO NOT PERFORM ACTIONS WITHIN THE PROTECTED AREA THAT MAY HARM THE TREE AND COMPACT THE SOIL, INCLUDING EXCAVATION, STORING MATERIALS, PARKING AND TRAFFIC DURING CONSTRUCTION. WHERE CONSTRUCTION REQUIRES DISTURBANCE WITHIN THE PROTECTED AREAS, DISTURB THE ROOT ZONE AS LITTLE AS POSSIBLE.
- 2. TREE PROTECTION MEASURES/FENCING MUST BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION AND MUST BE REVIEWED BY OWNER AND ENGINEER BEFORE STARTING CONSTRUCTION. IF TREES ARE INSTALLED DUE TO ADJACENT PROJECT(S) DURING CONSTRUCTION, TREE PROTECTION MEASURES MUST BE IN PLACE IMMEDIATELY UPON COMPLETION OF INSTALLATION.
- 3. WHEN TREE ROOTS ARE ENCOUNTERED THAT MUST BE REMOVED, CONTRACTOR SHALL CUT ROOTS CLEANLY AS FAR FROM THE TREE AS POSSIBLE AND IMMEDIATELY WATER AND BACKFILL OVER THE ROOTS TO PREVENT DRYING.

HORIZONTAL AND VERTICAL CONTROL NOTES

- 1. THE HORIZONTAL CONTROL FOR THIS PLAN IS NAD83 SCOTT COUNTY COORDINATES SYSTEM US FOOT. THE VERTICAL CONTROL FOR THIS PLAN IS NAVD88.

TEST REPORTS REQUIRED

- 1. COPIES OF COMPACTION, CONCRETE, AND OTHER TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE INDEPENDENT TESTING LABORATORY.
- 2. GEOTECHNICAL TESTING MUST BE COMPLETED BY THE OWNER'S GEOTECHNICAL ENGINEER/INDEPENDENT TESTING LABORATORY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED GEOTECHNICAL TESTS AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER.
- 3. TEST REPORTS REQUIRED MAY INCLUDE, BUT NECESSARILY LIMITED TO:
 - A. DENSITY TESTS OF SOIL AND PAVEMENT COMPACTION
 - B. CONCRETE COMPRESSION, AIR, AND SLUMP TESTS
 - C. BACTERIOLOGICAL TESTS OF WATER SYSTEM
 - D. MANDREL TESTS OF SANITARY AND STORM SYSTEM
 - E. PRESSURE/LEAK TESTS OF WATER/SANITARY/STORM SYSTEM
 - F. OTHER TESTING REQUIRED BY AGENCY/MUNICIPALITY HAVING JURISDICTION
- 4. RE-WORK/RE-TESTING DUE TO FIELD TEST FAILURE ARE AT NO ADDITIONAL COST TO THE OWNER.

PERMITES REQUIRED

- 1. OWNER WILL SECURE THE FOLLOWING PERMITS, IF REQUIRED. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH THE TERMS AND PROVISIONS OF THESE PERMITS:
 - A. MDH WATERMAIN EXTENSION PERMIT
 - B. MPCAMCES SEWER EXTENSION PERMIT
 - C. WATERSHED ORGANIZATION PERMIT
 - D. WCA/USACE WETLAND PERMITS
 - E. MPCA INDUSTRIAL STORMWATER PERMIT
- 2. CONTRACTOR RESPONSIBLE TO SECURE ALL OTHER FEDERAL, STATE, COUNTY, AND CITY PERMITS NECESSARY FOR CONSTRUCTION. CONTRACTOR SECURED PERMITS MAY INCLUDE BUT ARE NOT LIMITED TO:
 - A. NPDES (CO-SUBMITTAL WITH OWNER, FEE BY CONTRACTOR) PERMIT
 - B. DNR WATER APPROPRIATION PERMIT FOR CONSTRUCTION DEWATERING
 - C. DLJ PLUMBING PERMIT
 - D. MCES DIRECT CONNECTION PERMIT
 - E. COUNTY ACCESS PERMIT
 - F. COUNTY UTILITY PERMIT
 - G. COUNTY WORK IN ROW PERMIT
 - H. CITY PERMITS
 - I. DEMOLITION PERMITS
 - J. FAA AIR SPACE ENCR OACHMENT PERMIT

PAVING, PAVEMENT MARKING, AND SIGNAGE NOTES

- 1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- 2. CONTRACTOR SHALL MAINTAIN STREET AND TRAFFIC SIGNS AT ALL TIMES DURING CONSTRUCTION.
- 3. SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES MUST BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CITY STANDARDS.
- 4. THE PAVEMENT SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE CITY AND ENGINEER JUST PRIOR TO APPLICATION OF PAVEMENT MARKINGS. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE CITY, OWNER, AND ENGINEER, (INCIDENTAL)
- 5. THE PAVEMENT MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING.
- 6. PAVEMENT MARKING EDGE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES.
- 7. CONSTRUCTION AND MATERIALS WITHIN PUBLIC RIGHT-OF-WAY MUST BE IN ACCORDANCE WITH CITY SPECIFICATIONS AND STANDARDS. MNDOT SPECIFICATIONS AND STANDARDS APPLY IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS. PAVING, PAVEMENT MARKINGS, AND SIGNAGE WITHIN THE SITE SHALL MEET THE FOLLOWING REQUIREMENTS:
 - A. BITUMINOUS: CONFORM TO MNDOT SPEC 2360
 - 1) WEARING COURSE MIX DESIGN: MNDOT MIX SPWEA3408
 - 2) NON-WEARING COURSE MIX DESIGN: MNDOT MIX SPNWB330B
 - 3) TACK COAT: MNDOT SPEC 2367, EMULSIFIED ASPHALT, CATIONIC, CSS-1 OR CSS-1H
 - A. CONCRETE SIDEWALK/DRIVEWAYS/SLABS MATERIALS: CONFORM TO MNDOT SPEC 2461
 - 1) MANUAL PLACEMENT MIX DESIGN: MNDOT MIX 3F52A
 - 2) HIGH-EARLY CONCRETE REQUIREMENTS: MNDOT SPEC 2461.2 F.2.B TABLE 2461-7
 - B. CONCRETE CURB AND GUTTER MATERIALS: CONFORM TO MNDOT SPEC 2461
 - 1) MANUAL PLACEMENT: MNDOT MIX 3F52
 - 2) SLIP FORM PLACEMENT: MNDOT MIX 3F32
 - C. CONCRETE METAL REINFORCEMENT:
 - 1) REINFORCING BARS: CONFORM TO MNDOT SPECS 2472 AND 3301, AND AS SPECIFIED ON THE DRAWINGS.
 - 2) TIE WIRE: FEDERAL SPECIFICATION FS QQ-W-461-G, ANNEALED STEEL, BLACK, 16 GAUGE MINIMUM.
 - 3) BAR SUPPORTS: CONFORM TO "BAR SUPPORT SPECIFICATIONS AND STANDARD NOMENCLATURE", CRSI MANUAL OF STANDARD PRACTICE.
 - 4) WELDED WIRE FABRIC/REINFORCEMENT: CONFORM TO MNDOT SPEC 2472, AND AS SPECIFIED ON THE DRAWINGS.
 - D. CONCRETE ISOLATION/EXPANSION JOINT MATERIAL: MNDOT SPEC 3702, TYPE D. PROVIDE CAULKING/JOINT SEALANT AND BACKER ROD AS RECOMMENDED BY JOINT MANUFACTURER.
 - E. CONCRETE CURING MATERIALS: CONFORM TO MNDOT SPECS 3754
 - B. CONCRETE PLACING, FINISHING, CURING, AND PROTECTION: CONFORM TO MNDOT SPECS 2461, 2521, AND 2531, AND APPLICABLE ACI STANDARDS.
 - C. AGGREGATE BASE: MNDOT SPEC 3138, CLASS 5 AGGREGATE BASE, 100% CRUSHED VIRGIN AGGREGATE
 - D. PAVEMENT MARKINGS: MNDOT SPECS 2582 AND 3591 (ARCYLIC LATEX PAINT) WITH DROP ON GLASS BEADS IN ACCORDANCE WITH MNDOT SPEC 3592.
 - E. SIGNAGE: CONFORM TO MNDOT SPEC 2564, 3352, AND 3402. ALL SIGNS SHALL MEET CRASHWORTHY REQUIREMENTS OF MASH-16.
 - 1) SIGNS SHALL INCLUDE NUMBER AND SIZE OF POSTS IN ACCORDANCE WITH MNDOT WIND LOADING CHART FOR SIGNS ON SQUARE TUBE POSTS.
 - 2) MOUNT SIGNS IN ACCORDANCE WITH SQUARE TUBE SIGN MOUNTING MNDOT STANDARD PLANS.
 - 3) SEE MNDOT STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" AND TYPE "D" SIGNS PANELS.
 - 4) SEE MNDOT MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART II FOR DETAILS OF TRAFFIC SIGN INSTALLATION.
- 2. CONTRACTOR SHALL PROVIDE CONCRETE JOINTS AS FOLLOWS:
 - A. CONTROL JOINTS - MAINTAIN AN ASPECT RATIO (LENGTH TO WIDTH) BETWEEN CONTROL JOINTS AS CLOSE TO 1:1 AS FEASIBLE. DO NOT EXCEED ASPECT RATIO GREATER THAN 1.5:1. MATCH EXISTING PATTERN WHERE APPLICABLE. MAXIMUM CONTROL JOINT SPACING SHALL BE 24 TIMES THE SLAB THICKNESS (I.E. 4-INCH-THICK SLAB = 96 INCH (8 FOOT) MAXIMUM CONTROL JOINT SPACING IN ANY DIRECTION)
 - B. EXPANSION/ISOLATION JOINTS - PROVIDE AT MAXIMUM 60 FOOT SPACING AND THE FOLLOWING:
 - 1) LOCATIONS WHERE ABRUPT CHANGES IN DIRECTION OCCUR
 - 2) LOCATIONS WHERE CHANGES IN WIDTH OCCUR
 - 3) LOCATIONS WHERE ADJOINING EXISTING CONCRETE
 - 4) LOCATIONS ON THE EXTREME THAT ABUT THE BUILDING INCLUDING RAMPS, STAIRS, LANDINGS, CONCRETE APRONS, ARCHITECTURAL AND LANDSCAPE FEATURES, ETC.
 - 5) LOCATIONS IN CHANGES IN DEPTH (INCLUDING PAVEMENT ADJACENT TO CURB).
 - C. WHEREVER POSSIBLE MATCH JOINTS OF ADJACENT CONCRETE WORK.
- 3. TOLERANCES:
 - F. BITUMINOUS PAVEMENT LINE, GRADE AND THICKNESS - CONFORM TO MNDOT SPEC 2360.3.E, EXCEPT AS MODIFIED BELOW:
 - 1) DEVIATIONS ALONG ADA ACCESSIBLE ROUTES THAT EXCEED THE MAXIMUM SLOPES WILL BE CONSIDERED UNACCEPTABLE.
 - 2) HORIZONTAL/LINE DEVIATIONS IN LOCATION GREATER THAN ±1 INCH WILL BE CONSIDERED UNACCEPTABLE.
 - 3) ANY SURFACE AREA ALLOWING ENTRAPMENT OF WATER AT A DEPTH OF 1/4 INCH OR GREATER WILL BE CONSIDERED UNACCEPTABLE.
 - 4) REMOVE AND REPLACE UNACCEPTABLE WORK AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
 - G. CONCRETE PAVEMENT - CONFORM TO MNDOT SPEC 2521.3.D.3, EXCEPT AS MODIFIED BELOW:
 - 1) VERTICAL DEVIATIONS IN SURFACE GREATER THAN ±3/16 INCH WILL BE CONSIDERED UNACCEPTABLE. DEVIATIONS ALONG ADA ACCESSIBLE ROUTES THAT EXCEED THE MAXIMUM SLOPES WILL BE CONSIDERED UNACCEPTABLE.
 - 2) HORIZONTAL/LINE DEVIATIONS IN LOCATION GREATER THAN ±1/2 INCH WILL BE CONSIDERED UNACCEPTABLE.
 - 3) ANY SURFACE AREA ALLOWING ENTRAPMENT OF WATER AT A DEPTH OF 1/8 INCH OR GREATER WILL BE CONSIDERED UNACCEPTABLE.
 - 4) REMOVE AND REPLACE UNACCEPTABLE WORK AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
 - H. CONCRETE CURB AND GUTTER: CONFORM TO MNDOT SPEC 2531.3
 - I. PAVEMENT MARKINGS: CONFORM TO MNDOT SPEC 2582.3.C, EXCEPT AS MODIFIED BELOW:
 - 1) LINE WIDTH DEVATIONS LESS THAN OR EQUAL TO ±1/4 INCH FROM THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE.
 - 2) BROKEN LINE SEGMENTS LESS THAN OR EQUAL TO ±1/4 FOOT FROM THE SPECIFIED LENGTHS WILL BE ALLOWED FOR STRIPING.
 - 3) ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 2 INCHES.
 - 4) MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.
- 8. CONTRACTOR SHALL INSTALL A MINIMUM OF 6 INCHES CLASS 5 AGGREGATE BASE UNDER CURB AND GUTTER, SEE DETAILS.

GRADING NOTES

- 1. SEE GENERAL NOTES FOR ADDITIONAL PROJECT AND SITE INFORMATION.
- 2. PROPOSED CONTOURS ARE TO FINISHED SURFACE GRADE, UNLESS NOTED OTHERWISE.
- 3. THE SITE HAS NOT NECESSARILY BEEN DESIGNED TO BALANCE THE ON-SITE MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO QUANTIFY SOIL IMPORT OR EXPORT FOR THE SITE AND PERFORM THEIR OWN QUANTITY TAKEOFFS FROM THE DRAWINGS FOR BIDDING PURPOSES. SUITABLE OFFSITE IMPORT MATERIAL MAY BE NECESSARY TO ACHIEVE THE FINAL GRADES SHOWN ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE WITH GEOTECHNICAL ENGINEER TO VERIFY IMPORT, FROM CONTRACTOR DETERMINED SOURCE, IS SUITABLE FOR USE. EXCESS MATERIAL, UNLESS NOTED OTHERWISE, IS THE PROPERTY OF THE CONTRACTOR AND IS TO BE MOVED AND DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE LAWS.
- 4. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND ENSURE NO PONDING IN PAVED AREAS. CONTRACTOR SHALL NOTIFY ENGINEER IF GRADING DISCREPANCIES ARE FOUND IN EXISTING OR PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT. OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING BEFORE PLACEMENT OF PAVEMENT TO ENSURE DRAINAGE IS ADEQUATE TO INTENDED AREA.
- 5. CONTRACTOR SHALL BACKFILL, SUBGRADE AND TRENCH EXCAVATIONS AT THE END OF EACH WORK DAY AFTER EXCAVATION TO HELP OFFSET STABILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES AND TO AVOID UNDERMINING OF EXISTING PAVEMENT AND TO PROMOTE PUBLIC SAFETY OR ACCESS TO DRIVEWAYS.
- 6. CONTRACTOR SHALL PROVIDE TOPSOIL, SEED/SOD, MULCH, AND FERTILIZER IN ACCORDANCE WITH THE LANDSCAPE PLAN BY OTHERS.
- 7. REFERENCE LANDSCAPE PLAN FOR MINIMUM TOPSOIL THICKNESS. CONTRACTOR SHALL SALVAGE TOPSOIL BEFORE GRADING, AND STOCKPILE FOR RESPREADING.
- 8. EXISTING TOPSOIL ON SITE VARIES IN DEPTH. CONTRACTOR SHALL REMOVE SURFACE VEGETATION AND TOPSOIL AND OTHER LOOSE, SOFT OR OTHERWISE UNSUITABLE MATERIAL FROM THE IMPERVIOUS AREAS AND OTHER AREAS AS DIRECTED BY THE GEOTECHNICAL ENGINEER BEFORE PLACEMENT OF SUITABLE FILL MATERIAL.
- 9. CONTRACTOR SHALL EXCAVATE AND DISPOSE OF UNSUITABLE OR CONTAMINATED SOILS DISCOVERED ONSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND AS DIRECTED BY GEOTECHNICAL ENGINEER.
- 10. CONTRACTOR IS RESPONSIBLE FOR MEETING GRADING/COMPACTION REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT AND SPECIFICATIONS FOR THE PROJECT.
- 11. CONTRACTOR SHALL CONSTRUCT/GRADE SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS IN ACCORDANCE WITH CURRENT ADA STATE AND NATIONAL STANDARDS. NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET AT ANY LOCATION.
- 12. EXISTING SPOT ELEVATIONS AT MATCH POINTS ARE BASED ON INTERPOLATED POINT TO POINT SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONNECTION POINTS PRIOR TO INSTALLATION OF IMPROVEMENTS AND FOR MAKING NECESSARY ADJUSTMENTS IN THE FIELD FOR CONSTRUCTABILITY AND TO ENSURE SMOOTH TRANSITIONS TO FIELD CONDITIONS. ENGINEER IS NOT RESPONSIBLE FOR REWORK OF AN UNCOMMUNICATED DISCREPANCY.
- 13. COMPACT EMBANKMENT/SUITABLE FILL AND BACKFILL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND WITH MNDOT SPEC 2105 SPECIFIED DENSITY METHOD.
- 14. SOILS TESTING WILL BE COMPLETED BY THE OWNER'S GEOTECHNICAL ENGINEER. CONTRACTOR SHALL COORDINATE REQUIRED SOIL TESTS AND INSPECTIONS WITH THE GEOTECHNICAL ENGINEER.
- 15. ONSITE EMBANKMENT MATERIAL FREE OF ORGANIC SOIL AND DEBRIS MAY BE CONSIDERED FOR REUSE AS SUITABLE FILL MATERIAL IN PERVIOUS AREAS BUT MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.
- 16. IMPORTED SUITABLE FILL MATERIAL NEEDED MAY CONSIST OF SAND (SW, SP), SILTY SAND (SM), CLAYEY SAND (SC), SANDY LEAN CLAY OR LEAN CLAY (CL), ACCORDING TO THE USCS CLASSIFICATION WITH A PLASTIC INDEX OF THESE MATERIALS NOT EXCEEDING 15, AND MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE BRINGING ON THE SITE.
- 17. CONTRACTOR SHALL PROVIDE DEWATERING MEASURES AS REQUIRED OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER AT NO ADDITIONAL COST TO THE OWNER. SEE DEWATERING NOTES FOR ADDITIONAL REQUIREMENTS.
- 18. TOLERANCES:
 - A. GRADING ELEVATIONS - CONFORM TO MNDOT SPEC 2105.3.H EXCEPT AS MODIFIED BELOW:
 - 1) FINISHED GRADING OF SUBGRADE PRIOR TO PLACEMENT OF AGGREGATE BASE COURSES SHALL NOT VARY BY MORE THAN 0.05 FEET ABOVE OR BELOW THE DESIGN, OR ENGINEER ADJUSTED GRADE.

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CALL BEFORE YOU DIG

GOPHER STATE ONE CALL

TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166



7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:



PROJECT TITLE

GREYSTONE
HEADQUARTERS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.	DESCRIPTION	DATE
1	CITY SUBMITTAL	06/19/2020

CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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.

LICENSE NO.:
DATE:

PROJECT NO.: 7733-20-500

DWN BY:	CHK'D BY:	APP'D BY:
MDH	JRA	DMIL

ISSUE DATE: 06/19/2020

ISSUE NO.: 1

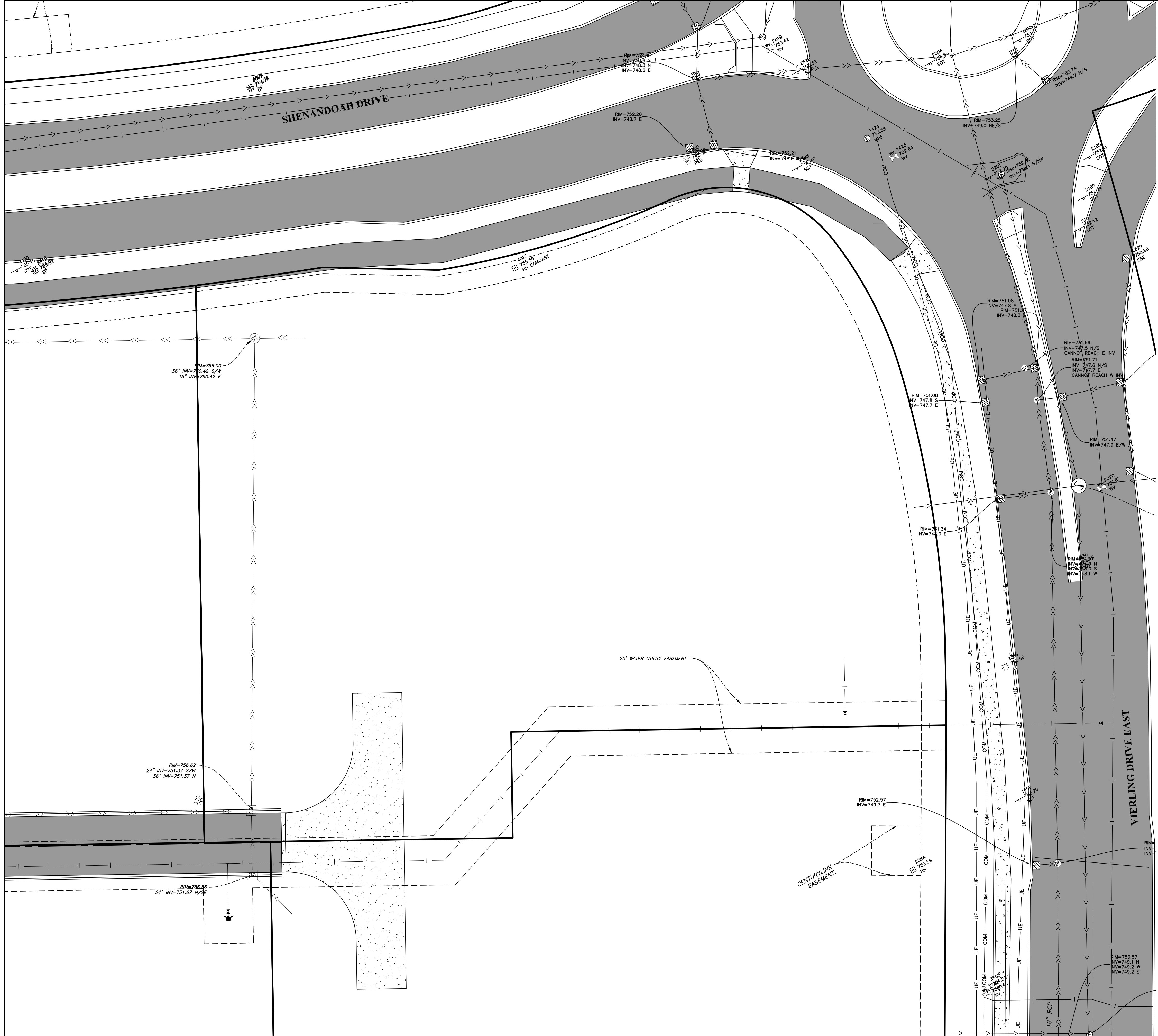
SHEET TITLE:

GENERAL NOTES

SHEET NO.: G-003

6/19/2020 7:45:55 AM

M:\7733 GREYSTONE CONSTRUCTION\020-500 HEADQUARTERS DESIGN\1 CAD\3 PLANS\HEADQUARTERS\003 EXISTING CONDITIONS.dwg



LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SETBACK LINE
- RIGHT OF WAY LINE
- SECTION LINE
- QUARTER LINE
- EXISTING EASEMENT LINE
- EXISTING PROPERTY LINE
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING UNDERGROUND COMMUNICATION LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- EXISTING HYDRANT
- EXISTING WATER VALVE
- EXISTING ELECTRIC MANHOLE
- EXISTING SIGN
- EXISTING LIGHT POLE
- EXISTING CONCRETE SURFACE
- EXISTING ASPHALT SURFACE
- EXISTING GRAVEL SURFACE

NOTES

- SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES.
- CONTOURS SHOWN REFLECT DESIGN SURFACE FROM CANTERBURY SOUTHWEST DEVELOPMENT CIVIL CONSTRUCTION PLANS BY WENCK ASSOCIATES, AND MAY DIFFER FROM WHAT IS SHOWN HERE.

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CALL BEFORE YOU DIG

GOPHER STATE ONE CALL

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TOLL FREE 1-800-252-1166

7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:

GREYSTONE
CONSTRUCTION

PROJECT TITLE

GREYSTONE HEADQUARTERS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

ISSUE NO.	DESCRIPTION	DATE
1	CITY SUBMITTAL	06/19/2020

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LICENSING NO.:
DATE:

PROJECT NO.: 7733-20-500

DWN BY:	CHK'D BY:	APP'D BY:
MDH	JRA	DML

ISSUE DATE: 06/19/2020

ISSUE NO.: 1

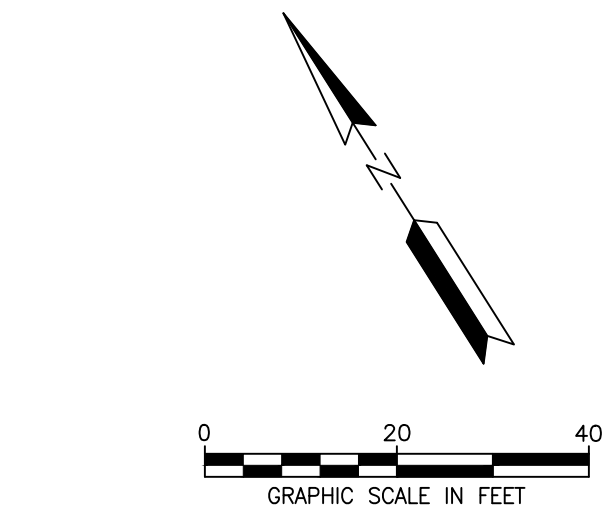
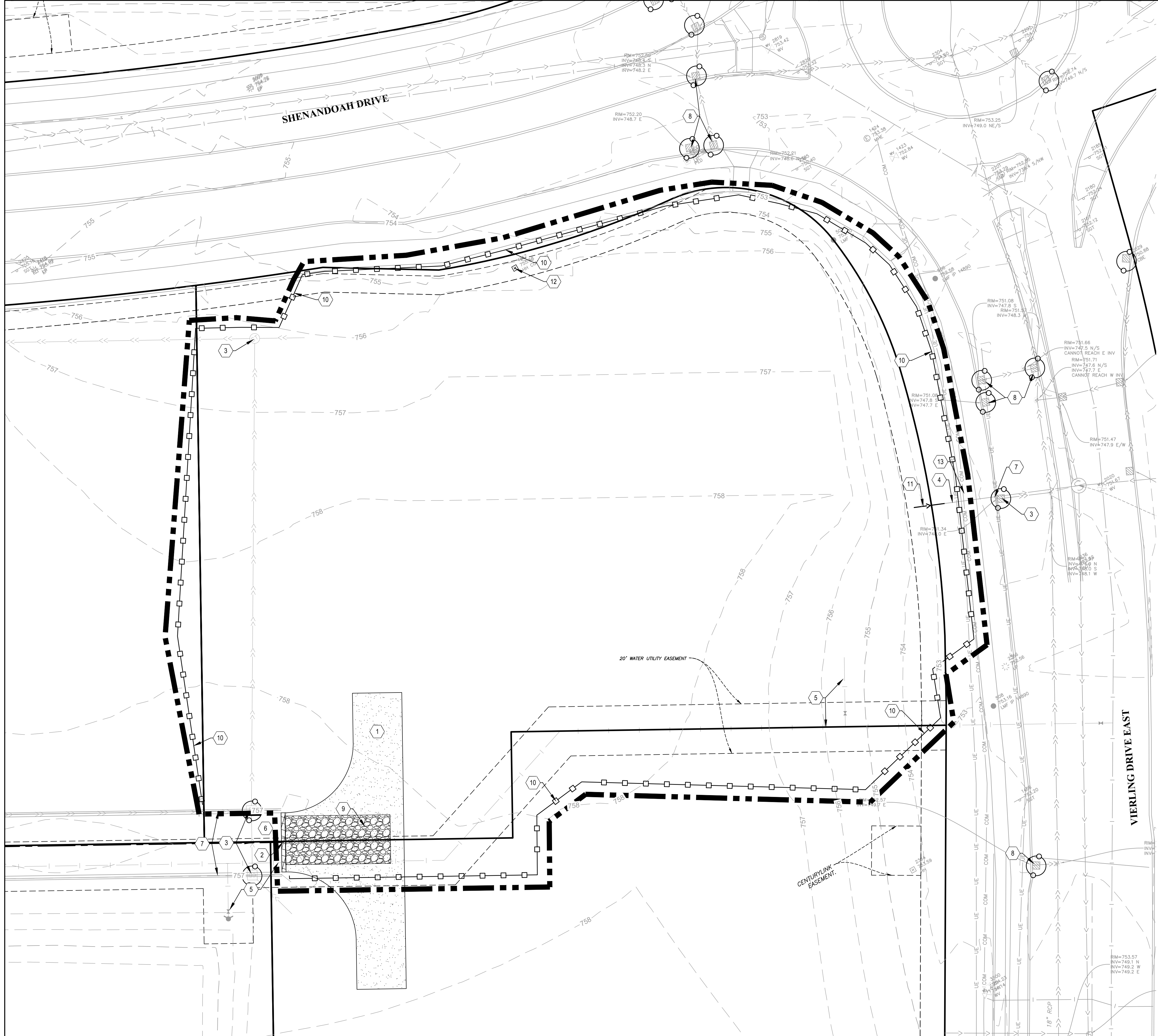
SHEET TITLE:

EXISTING CONDITIONS

SHEET NO.: **G-004**

6/19/2020 7:47:05 AM

M:\7733 GREYSTONE CONSTRUCTION\20-500 HEADQUARTERS DESIGN\1 CAD\3 PLANS\SHETS\SC-001 REMOVALS AND PH-1.dwg



LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- CONSTRUCTION LIMITS
- RIGHT OF WAY LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- ROCK CONSTRUCTION EXIT
- REMOVE CONCRETE PAVEMENT
- CLEAR AND GRUB AREA
- REMOVE GRAVEL SURFACING
- SILT FENCE
- INLET PROTECTION

NOTES

- SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES
- CONSTRUCTION SITE SHALL HAVE STABILIZED EXIT AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROTECT DOWNSTREAM WATERS FROM CONSTRUCTION RUNOFF.
- LIMITS OF DISTURBANCE AND SILT FENCE ARE SHOWN OFFSET FROM PROPERTY LINE FOR CLARITY, WHERE APPLICABLE.
- CLEAR AND GRUB AS NEEDED FOR CONSTRUCTION WITHIN LIMITS OF DISTURBANCE.
- EXISTING CONDITIONS MAY VARY DUE TO LOCAL CONSTRUCTION.
- VARIOUS PRIVATE UTILITIES ANTICIPATED WITHIN PUBLIC ROW AND DRAINAGE AND UTILITY EASEMENTS, WHICH ARE NOT SHOWN ON THESE PLANS. CONTRACTOR TO EXERCISE CAUTION WHEN WORKING NEAR ANTICIPATED UTILITY.

KEYNOTES

- REMOVE GRAVEL PAVEMENT
- REMOVE CONCRETE PAVEMENT
- PROTECT STORM SEWER/STRUCTURE (TYP.)
- PROTECT SANITARY SEWER/STRUCTURE (TYP.)
- PROTECT WATERMAIN/APPURTENANCE (TYP.)
- PROTECT BITUMINOUS PAVEMENT (TYP.)
- PROTECT CURB AND GUTTER (TYP.)
- INSTALL INLET PROTECTION (TYP.) - SEE DETAIL
- INSTALL ROCK CONSTRUCTION EXIT - SEE DETAIL AND NOTE 2 THIS SHEET
- INSTALL SILT FENCE - SEE DETAIL
- REMOVE SANITARY PIPE
- RELOCATE HANDHOLE - COORDINATE WITH UTILITY COMPANY
- REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK AS NEEDED FOR SANITARY MANHOLE INSTALLATION

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CALL BEFORE YOU DIG

GOPHER STATE ONE CALL

TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166

WENCK

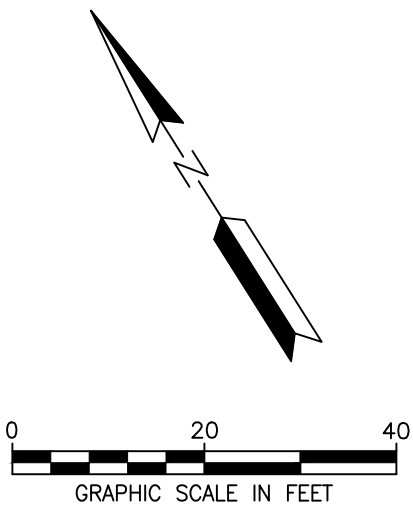
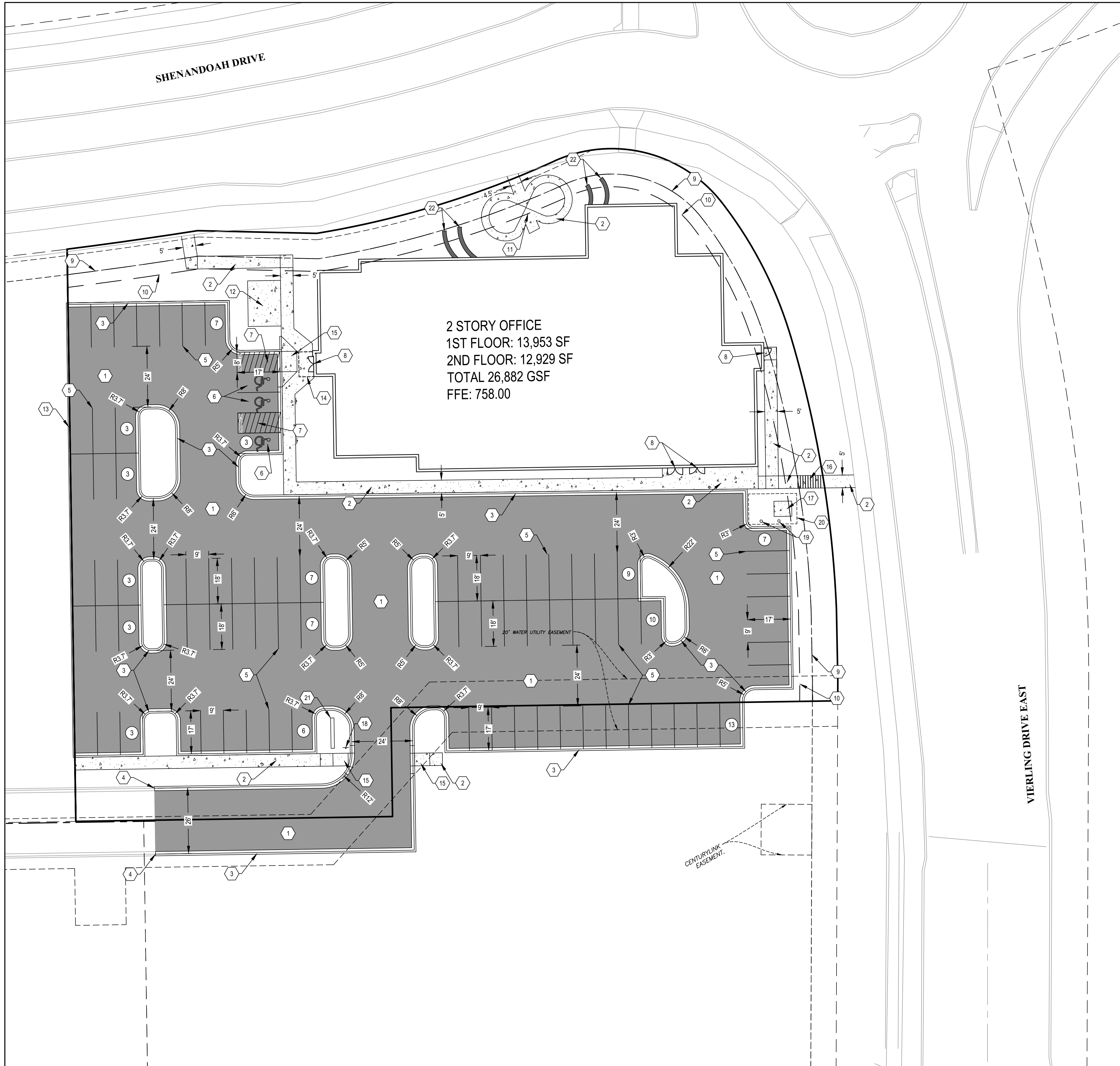
7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:

GREYSTONE
CONSTRUCTION

GREYSTONE
HEADQUARTERS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE	
ISSUE NO.	1
DESCRIPTION:	CITY SUBMITAL
DATE:	06/19/2020
CERTIFICATION:	
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	
LICENSE NO.:	
DATE:	
PROJECT NO.:	7733-20-500
DWN BY:	MDH
CHK'D BY:	JRA
APP'D BY:	DMH
ISSUE DATE:	06/19/2020
ISSUE NO.:	1
SHEET TITLE:	
REMOVALS AND PRE-CONSTRUCTION EROSION CONTROL PLAN	
SHEET NO.:	
C-001	



- | | |
|---|----------------------------|
|  | PROPERTY BOUNDARY |
|  | LOT LINE |
|  | EASEMENT LINE |
|  | SETBACK LINE |
|  | RIGHT OF WAY LINE |
|  | EXISTING EASEMENT LINE |
|  | EXISTING PROPERTY LINE |
|  | CURB AND GUTTER |
|  | BITUMINOUS PAVEMENT |
|  | CONCRETE SIDEWALK |
|  | RETAINING WALL [BY OTHERS] |
|  | PROPOSED PARKING COUNT |

NOTES

1. SEE SHEET G-002 FOR PROJECT NOTES.
2. SEE SHEET C-601 FOR PAVING PLAN (WILL BE ADDED TO SET FOR PERMIT SUBMITTAL).
3. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

KEYNOTES

- | | |
|---|---|
| 1. BITUMINOUS PAVEMENT - SEE SHEET C-601 | 12. BIKE RACK - SEE LANDSCAPE ARCHITECTURE PLANS |
| 2. CONCRETE PAVEMENT - SEE SHEET C-601 | 13. TEMPORARY BITUMINOUS CURB - SEE DETAIL |
| 3. CURB AND GUTTER - SEE SHEET C-601 | 14. BUILDING VESTIBULE - SEE ARCHITECTURAL/STRUCTURAL PLANS |
| 4. MATCH EXISTING (TYP.) | 15. ADA CURB RAMP - SEE SHEET C-301 FOR DETAILED GRADING |
| 5. PAVEMENT STRIPE (TYP.) - SEE DETAIL | 16. STAIRS - SEE ARCHITECTURAL/STRUCTURAL PLANS |
| 6. ADA VAN STALL AND SIGN - SEE DETAILS | 17. TRANSFORMER PAD - SEE STRUCTURAL PLANS |
| 7. ADA AISLE - SEE DETAIL | 18. STOP SIGN - SEE DETAIL |
| 8. DOOR/STRUCTURAL STOOP - SEE ARCHITECTURAL/STRUCTURAL PLANS | 19. BOLLARD - SEE DETAIL |
| 9. BUILDING SETBACK LINE | 20. CLEAR ZONE AROUND TRANSFORMER (TYP.) |
| 10. PARKING SETBACK LINE | 21. MONUMENT SIGN - SEE ARCHITECTURAL/STRUCTURAL PLANS |
| 11. MEMORY GARDEN WITH BENCH(ES) - SEE LANDSCAPE ARCHITECTURE PLANS | 22. RETAINING WALL - SEE ARCHITECTURAL/STRUCTURAL PLANS |

SITE ANALYSIS TABLE			
ADDRESS			
EXISTING ZONING	MAJOR RECREATION / PUD OVERLAY		
PROPOSED ZONING	MAJOR RECREATION / PUD OVERLAY		
PROPOSED USE	OFFICE BUILDING		
LOT AREA SUMMARY			
	TOTAL AREA (AC.)	IMPERVIOUS AREA (AC.)	PERVIOUS AREA (AC.)
EXISTING PARCEL SUMMARY	1.45	0.05 (3%)	1.4 (97%)
PROPOSED	1.45	1.14 (79%)	0.31 (21%)
BUILDING SUMMARY			
	BUILDING FOOTPRINT (SF)	GROSS FLOOR AREA (SF)	# OF STORIES
PROPOSED	13,953	26,882	2
PARKING SUMMARY			
TOTAL PARKING	REQUIRED	PROPOSED, THIS LOT	PROPOSED, TOTAL
PROPOSED	108	71	84
ACCESSIBLE PARKING	REQUIRED	PROPOSED	PROPOSED
PROPOSED	N/A	3	4*
SETBACK SUMMARY			
	REQUIRED	PROPOSED	
PARKING SETBACK	15'	15'	
BUILDING SETBACKS			
ALONG SHENANDOAH DRIVE	10'	10'	
ALONG VIRLING DRIVE EAST	10'	10'	

* 4TH ADA STALL TO BE BUILT IN THE FUTURE ON THE PROPERTY SOUTH OF THIS PROJECT

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SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT



GREYSTONE
HEADQUARTERS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

[illegible]

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LICENSE NO.:

Page 1

PROJECT NO.: 7733-20-500

DWN BY:	CHK'D BY:	APP'D BY:
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ISSUE DATE: 06/19/2020

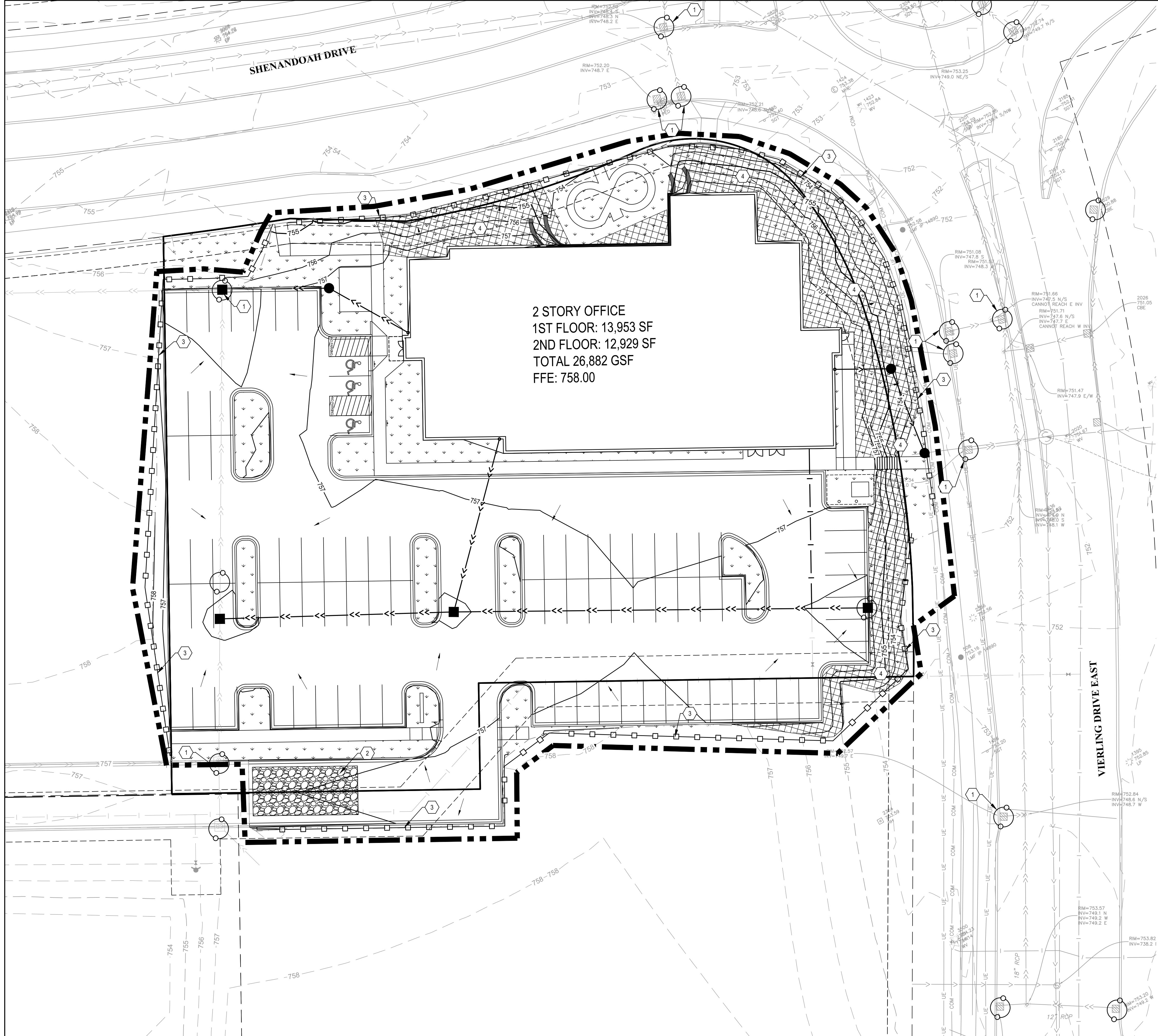
ISSUE NO.: 1

SHEET TITLE:

SITE PLAN

SHEET NO.:

C-101



LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SETBACK LINE
- RIGHT OF WAY LINE
- SECTION LINE
- QUARTER LINE
- EXISTING EASEMENT LINE
- EXISTING PROPERTY LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- GRADING LIMITS
- SURFACE FLOW DIRECTION
- CONSTRUCTION LIMITS
- ROCK CONSTRUCTION EXIT
- EROSION CONTROL BLANKET
- FINAL STABILIZATION - SEE LANDSCAPE ARCHITECT PLANS
- SILT FENCE
- INLET PROTECTION

NOTES

- SEE SHEET G-002 FOR PROJECT NOTES
- CONSTRUCTION SITE SHALL HAVE STABILIZED EXIT AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROTECT DOWNSTREAM WATERS FROM CONSTRUCTION RUNOFF.
- CONSTRUCTION LIMITS AND SILT FENCE ARE SHOWN OFFSET FROM PROPERTY LINE FOR CLARITY, WHERE APPLICABLE.
- EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES 4:1 AND STEEPER UPON THE COMPLETION OF GRADING.

KEYNOTES

- INSTALL INLET PROTECTION (TYP.) - SEE DETAIL
- INSTALL ROCK CONSTRUCTION EXIT - SEE DETAIL AND NOTE 2 THIS SHEET
- INSTALL SILT FENCE - SEE DETAIL
- INSTALL EROSION CONTROL BLANKET - SEE DETAIL

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WWW.WENCK.COM

CLIENT:



GREYSTONE
HEADQUARTERS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE

ISSUE NO.:

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CITY SUBMITAL

DATE:

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LICENSE NO.:

DATE:

PROJECT NO.: 7733-20-500

DWN BY: MDH

CHK'D BY: JRA

APP'D BY: DMIL

ISSUE DATE: 06/19/2020

ISSUE NO.: 1

SHEET TITLE:
POST-CONSTRUCTION
EROSION CONTROL
PLAN

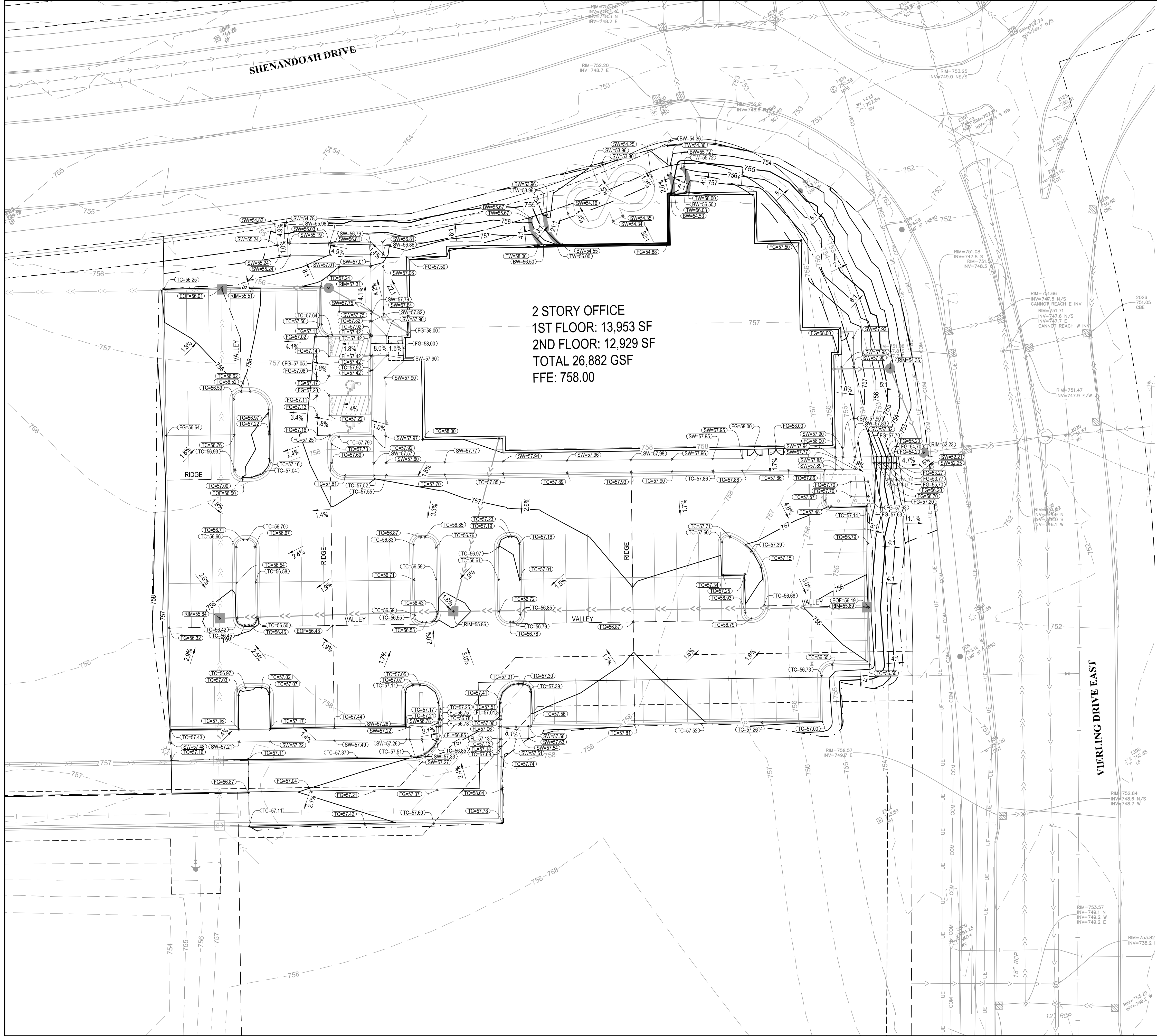
SHEET NO.:

C-201

[illegible]

SHEET NO.:

TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166



LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- EASEMENT LINE
- SETBACK LINE
- RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- EXISTING PROPERTY LINE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING SANITARY MANHOLE
- EXISTING STORM SEWER INLET
- EXISTING HYDRANT
- EXISTING WATER VALVE
- FLOW LINE ELEVATION
- FINISHED GRADE ELEVATION
- MATCH EXISTING ELEVATION
- SIDEWALK ELEVATION
- PAVEMENT ELEVATION
- EMERGENCY OVERFLOW ELEVATION
- TOP OF CURB ELEVATION
- TOP OF WALL ELEVATION
- BOTTOM OF WALL ELEVATION (AT GRADE)
- HIGH POINT SPOT ELEVATION
- LOW POINT SPOT ELEVATION
- TOP OF DITCH SPOT ELEVATION
- TOE OF DITCH SPOT ELEVATION
- STRUCTURE RIM SPOT ELEVATION
- TOP NUT HYDRANT SPOT ELEVATION
- SURFACE GRADE & FLOW DIRECTION
- SURFACE SLOPE (H:V) & FLOW DIRECTION

NOTES

- SEE SHEET G-002 FOR PROJECT NOTES
- SEE SHEET C-201 FOR CONSTRUCTION LIMITS
- EXISTING SPOT ELEVATIONS AT MATCH POINTS ARE BASED ON INTERPOLATED POINT TO POINT SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONNECTION POINTS PRIOR TO INSTALLATION OF IMPROVEMENTS AND FOR MAKING NECESSARY ADJUSTMENTS IN THE FIELD FOR CONSTRUCTABILITY AND TO ENSURE SMOOTH TRANSITIONS TO FIELD CONDITIONS. ENGINEER IS NOT RESPONSIBLE FOR REWORK OR AN UNCOMMUNICATED DISCREPANCY
- CONTRACTOR TO ENSURE FINAL GRADE OF PATCHED BITUMINOUS PAVEMENT REPLICATES EXISTING GRADE WHERE APPLICABLE.



7500 OLSON MEMORIAL HWY
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GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:



GREYSTONE
HEADQUARTERS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE

ISSUE NO.:

1

DESCRIPTION:

CITY SUBMITAL

DATE:

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LICENSE NO.:

PROJECT NO.:

7733-20-500

DWN BY: MDH

CHK'D BY: JRA

APP'D BY: DML

ISSUE DATE:

06/19/2020

ISSUE NO.:

1

SHEET TITLE:

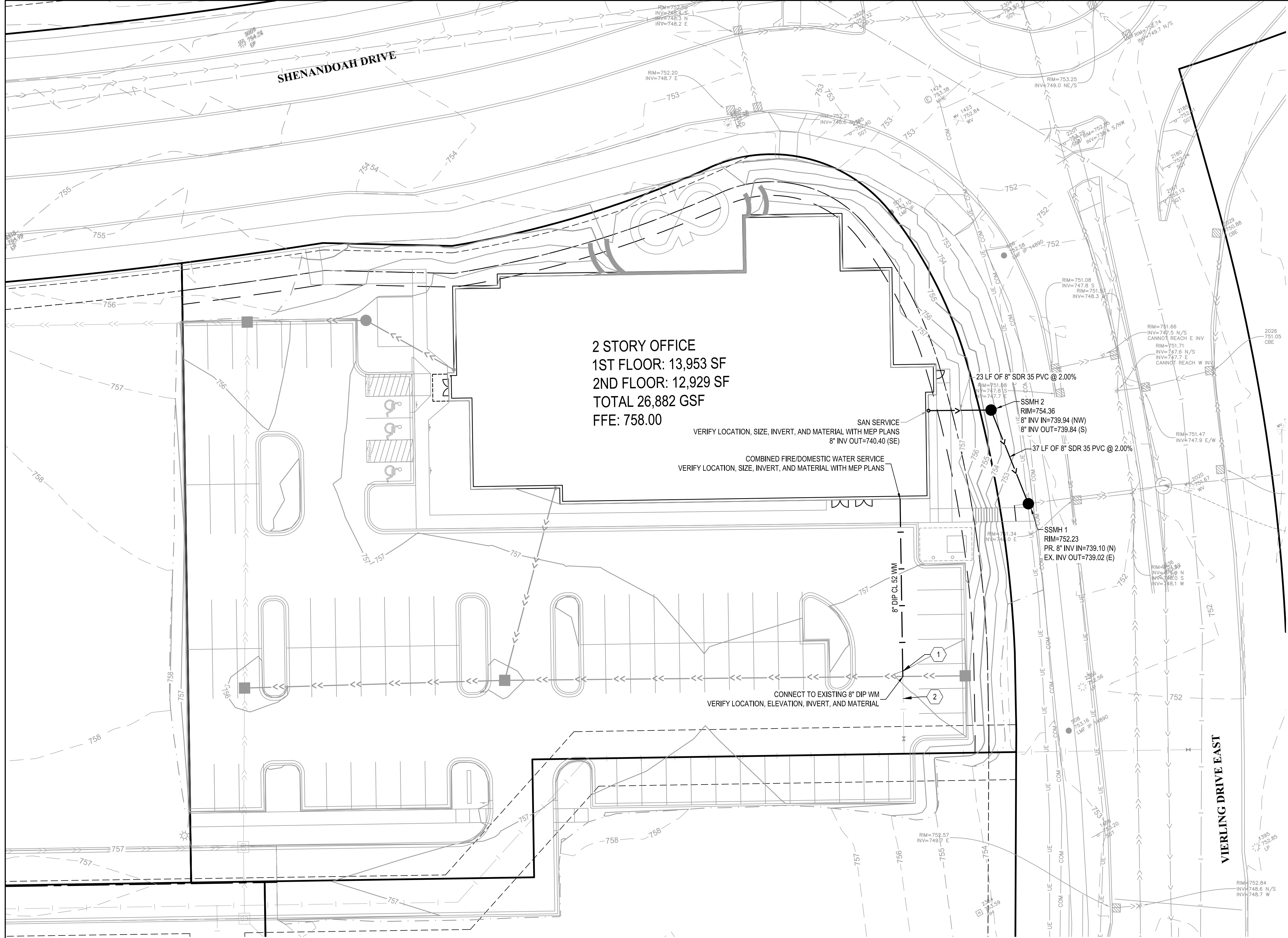
GRADING PLAN

SHEET NO.:

C-301

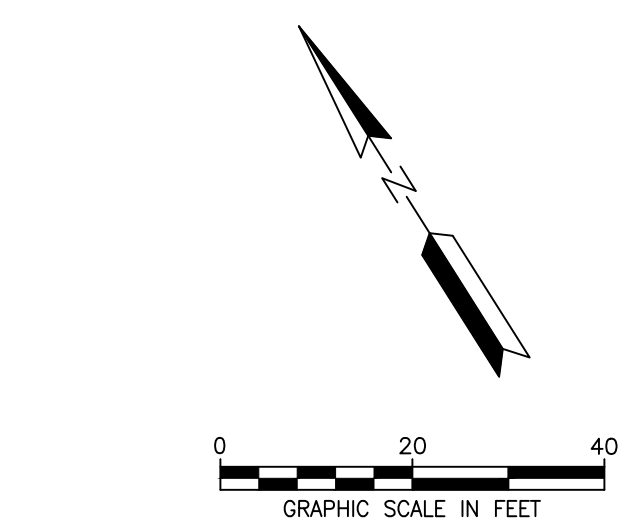
6/19/2020 7:47:59 AM

M:\7733 GREYSTONE CONSTRUCTION\002-500 HEADQUARTERS DESIGN\1 CAD\3 PLANS\SSC-401 UTILITY PLAN.dwg



#	STORM			SANITARY			WATER ^A		
	SIZE	MATERIAL	INVERT	SIZE	MATERIAL	INVERT	SIZE	MATERIAL	TOP OF PIPE
1	12" Ø	PVC	752.37	-	-	-	8" Ø	DIP	745.86

^A MAINTAIN 36" SEPARATION AT ALL WATER CROSSINGS. SEE DETAIL WAT-012.



LEGEND

	PROPERTY BOUNDARY
	LOT LINE
	EASEMENT LINE
	SETBACK LINE
	RIGHT OF WAY LINE
	SECTION LINE
	QUARTER LINE
	EXISTING EASEMENT LINE
	EXISTING PROPERTY LINE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING HYDRANT
	EXISTING WATER VALVE
	STORM SEWER
	SANITARY SEWER
	WATERMAIN
	STORM MANHOLE
	STORM CATCH BASIN
	SANITARY MANHOLE
	HYDRANT
	GATE VALVE
	CURB STOP
	FIRE DEPARTMENT CONNECTION

NOTES

- SEE SHEET G-002 FOR PROJECT NOTES
- CONTRACTOR SHALL VERIFY LOCATION, SIZE, INVERT, AND MATERIAL OF ALL UTILITY CONNECTIONS TO UTILITY MAINS.
- SANITARY AND WATER SERVICE SIZES AND ALIGNMENT ARE PRELIMINARY. CONTRACTOR TO VERIFY FINAL SIZING AND ALIGNMENT WITH MEP DESIGN. IN THE EVENT THE FINAL SIZE OR ALIGNMENT IS DIFFERENT THAN SHOWN ON THESE PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER IMMEDIATELY.

KEYNOTES

- PIPE CROSSING, SEE SCHEDULE THIS SHEET
- ADJUST GATE VALVE TO GRADE

SANITARY STRUCTURE SCHEDULE			
STRUCTURE ID	SIZE ^A	CASTING ^A	DETAIL
SSMH 1	48" Ø	R-1642B	
SSMH 2	48" Ø	R-1642B	

^A STRUCTURE SIZES ARE APPROXIMATE. PRECAST MANUFACTURER TO CONFIRM SIZES AND ADJUST AS NECESSARY, PRIOR TO BID OPENING

^A NEENAH OR APPROVED EQUAL

WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG

GOPHER STATE ONE CALL

TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166



7500 OLSON MEMORIAL HWY
SUITE 300
GOLDEN VALLEY, MN 55427
PHONE: 763-252-6800
FAX: 952-831-1268
WWW.WENCK.COM

CLIENT:



GREYSTONE HEADQUARTERS CITY OF SHAKOPEE SCOTT COUNTY, MINNESOTA

PROJECT TITLE

ISSUE NO.: 1

DESCRIPTION: CITY SUBMITAL

DATE: 06/19/2020

CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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.

LICENSE NO.:
DATE:

PROJECT NO.: 7733-20-500

DWN BY: MDH
CHK'D BY: JRA
APP'D BY: DML

ISSUE DATE: 06/19/2020

ISSUE NO.: 1

SHEET TITLE:

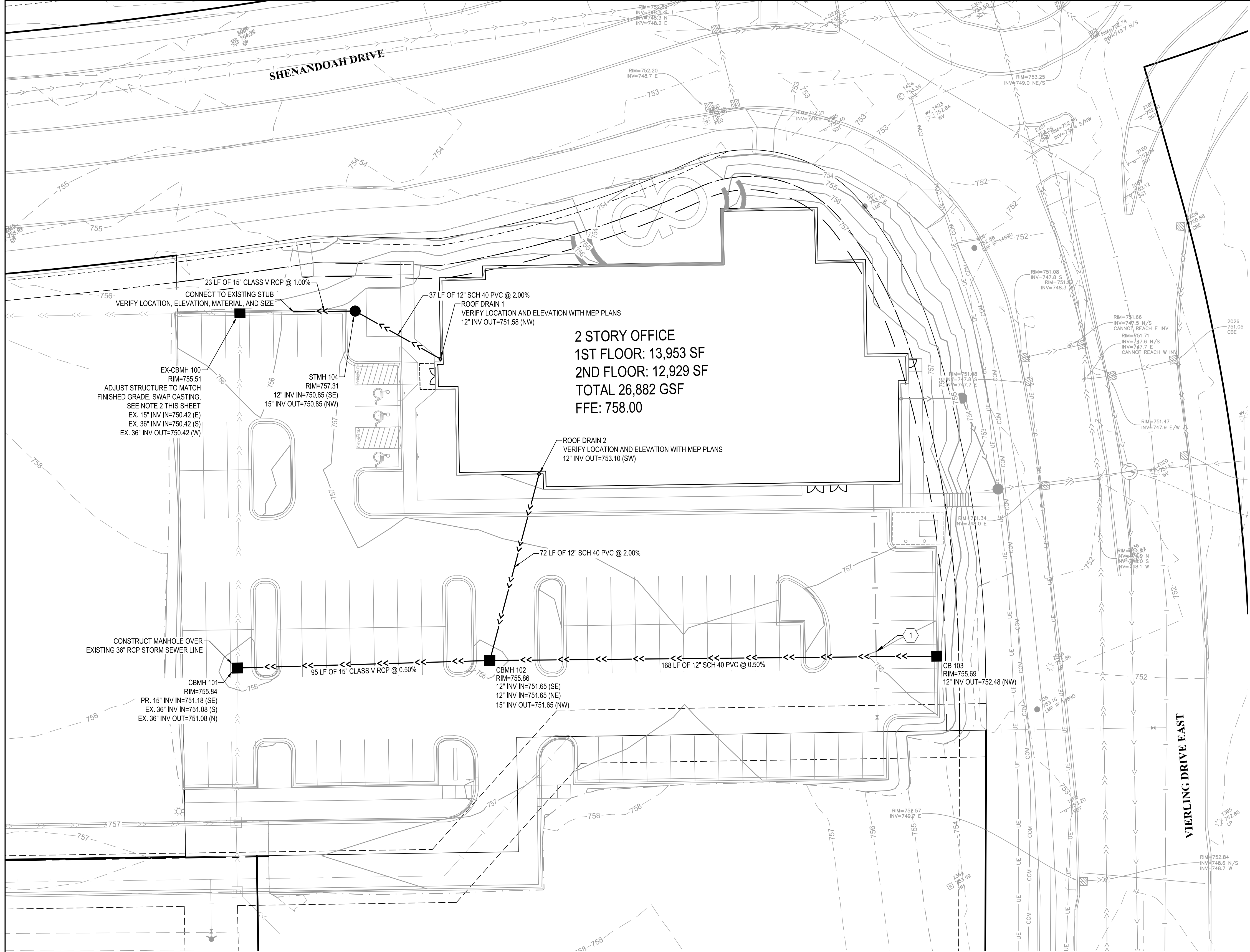
UTILITY PLAN

SHEET NO.:

C-401

6/19/2020 7:48:15 AM

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PIPE CROSSING SCHEDULE									
#	STORM			SANITARY			WATER ^A		
	SIZE	MATERIAL	INVERT	SIZE	MATERIAL	INVERT	SIZE	MATERIAL	TOP OF PIPE
1	12" Ø	PVC	752.37	-	-	-	8" Ø	DIP	745.86

^A MAINTAIN 36" SEPARATION AT ALL WATER CROSSINGS. SEE DETAIL WAT-012.

LEGEND

	PROPERTY BOUNDARY
	LOT LINE
	EASEMENT LINE
	SETBACK LINE
	RIGHT OF WAY LINE
	SECTION LINE
	QUARTER LINE
	EXISTING EASEMENT LINE
	EXISTING PROPERTY LINE
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING HYDRANT
	EXISTING WATER VALVE
	EXISTING SANITARY MANHOLE
	EXISTING STORM SEWER MANHOLE
	EXISTING STORM SEWER INLET
	EXISTING FLARED END SECTION
	STORM SEWER
	SANITARY SEWER
	WATERMAIN
	STORM MANHOLE
	STORM CATCH BASIN
	SANITARY MANHOLE
	HYDRANT
	GATE VALVE
	CURB STOP
	FIRE DEPARTMENT CONNECTION

NOTES

- SEE SHEET G-002 FOR PROJECT NOTES
- FOR THE INSTALLATION OF EX-CBMH-100, REMOVE EXISTING PIPE AS NECESSARY AND RECONNECT EX-CBMH-100 TO EXISTING MAIN IN ACCORDANCE WITH ENGINEERING STANDARDS

KEYNOTES

- PIPE CROSSING, SEE SCHEDULE THIS SHEET

STORM STRUCTURE SCHEDULE			
STRUCTURE ID	SIZE ^A	DETAIL	
		STRUCTURE	CASTING [*]
EX-CBMH 100	84" Ø		R-3067-VB
CBMH 101	48" Ø		R-2060
CBMH 102	48" Ø		R-2060
CB 103	24"x36"		R-3067-VB
STMH 104	48" Ø		R-1642

^A STRUCTURE SIZES ARE APPROXIMATE. PRECAST MANUFACTURER TO CONFIRM SIZES AND ADJUST AS NECESSARY. PRIOR TO BID OPENING

^{*} NEENAH OR APPROVED EQUAL

WARNING:

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THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

CALL BEFORE YOU DIG

GOPHER STATE ONE CALL

TWIN CITY AREA: 651-454-0002
TOLL FREE 1-800-252-1166

CLIENT:

GREYSTONE CONSTRUCTION

GREYSTONE HEADQUARTERS
CITY OF SHAKOPEE
SCOTT COUNTY, MINNESOTA

PROJECT TITLE:

ISSUE NO.:	1								
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DATE:

DESCRIPTION:	CITY SUBMITAL								
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CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT 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.

LICENSE NO.:

DATE:

PROJECT NO.:

7733-20-500

DWN BY:	MDH	CHK'D BY:	JRA	APP'D BY:	DMML
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ISSUE DATE:

06/19/2020

ISSUE NO.:

1

SHEET TITLE:

STORM SEWER PLAN

SHEET NO.:

C-501