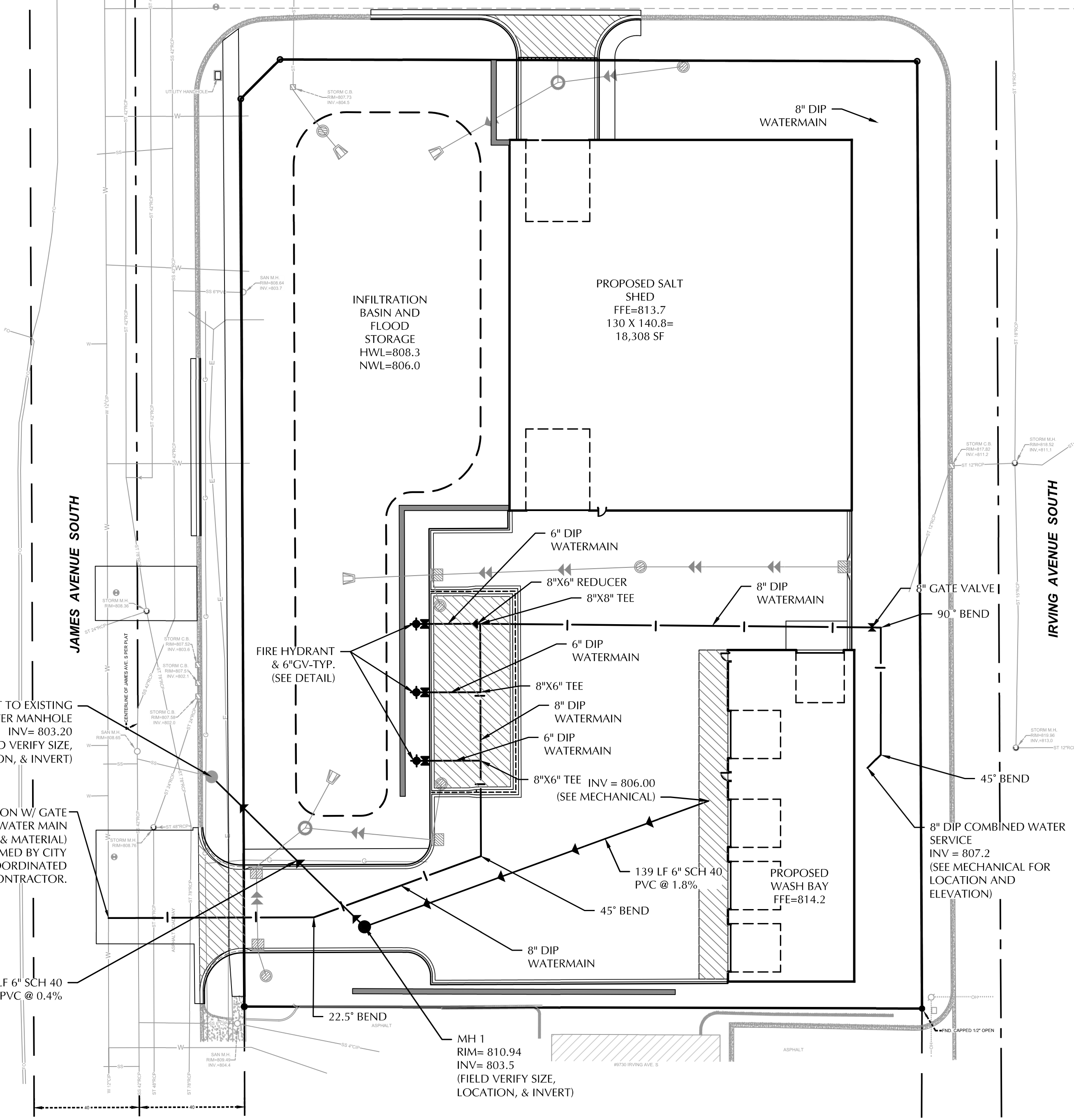


97TH STREET WEST

JAMES AVENUE SOUTH

IRVING AVENUE SOUTH



**LEGEND**

- PROPOSED**
- CATCH BASIN
  - STORM MANHOLE
  - FLARED END SECTION
  - SANITARY MANHOLE
  - HYDRANT
  - GATE VALVE
  - POST INDICATOR VALVE
  - WATER MANHOLE / WELL
  - LIGHT POLE
  - POWER POLE
  - ELECTRIC METER
  - GAS METER
  - TELEPHONE PEDESTAL
  - SIGN
  - BENCHMARK
  - SOIL BORING
  - PARKING STALL COUNT
  - ACCESSIBLE PARKING STALL
  - STORM SEWER
  - DRAINTILE
  - SANITARY SEWER
  - FORCEMAIN
  - WATERMAIN
  - SANITARY SEWER SERVICE
  - WATER SERVICE
  - UNDERGROUND ELECTRIC
  - UNDERGROUND FIBER OPTIC
  - UNDERGROUND GAS
  - UNDERGROUND TELEPHONE
  - OVERHEAD UTILITY
  - FENCE
  - CHAIN LINK FENCE
  - CONCRETE CURB
  - RETAINING WALL
  - CONCRETE
  - NO PARKING
  - BUILDING
  - CONTOUR
  - SPOT ELEVATION
  - DIRECTION OF FLOW
  - TREE LINE
  - PARKING SETBACK LINE
  - BUILDING SETBACK LINE

**REVISION SCHEDULE**

NO.	DESCRIPTION	DATE

**CITY OF BLOOMINGTON NOTES**

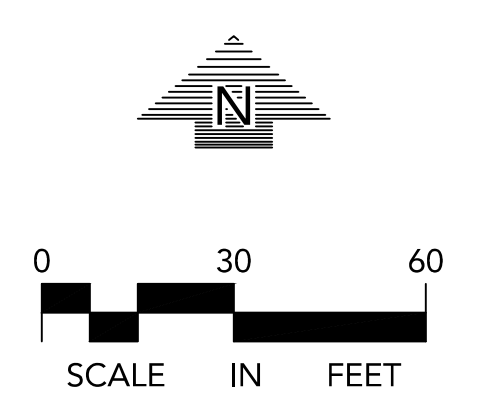
- TAPS OF LIVE WATER MAINS ARE DONE BY CITY FORCES AND PAID FOR BY AND COORDINATED WITH THE CONTRACTOR.
- COMBINATION FIRE AND DOMESTIC SERVICES MUST TERMINATE WITH A THREAD ON FLANGE OR AN MJ TO FLANGE ADAPTER.
- USE CLASS 52 DIP WATER MAIN FOR PIPE 12-INCHES IN DIAMETER AND SMALLER. A MINIMUM 8 MIL POLYWRAP IS REQUIRED ON ALL DIP.
- ALL COMPONENTS OF THE WATER SYSTEM, UP TO THE WATER METER OR FIRE SERVICE EQUIPMENT MUST UTILIZE PROTECTIVE INTERNAL COATINGS MEETING CURRENT ANSI/AWWA STANDARDS FOR CEMENT MORTAR LINING OR SPECIAL COATINGS. THE USE OF UNLINED OR UNCOATED PIPE IS NOT ALLOWED.
- PROVIDE A MINIMUM OF 8 FEET AND A MAXIMUM OF 10 FEET OF COVER OVER ALL WATER LINES.
- WATERMAIN SHALL BE ZINC COATED CLASS 52 DIP. A MINIMUM 8 MIL V-BIO ENCASEMENT IS REQUIRED ON ALL DIP.
- UTILITY AS-BUILTS MUST BE PROVIDED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.

**SANITARY SEWER & WATERMAIN NOTES**

- ALL SANITARY SEWER AND WATERMAIN UTILITIES SHALL BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF THE SPECIFICATIONS, THE MINNESOTA PLUMBING CODE, THE LOCAL GOVERNING UNIT, AND THE STANDARD UTILITIES SPECIFICATION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), CURRENT EDITION.
- ALL UTILITY PIPE BEDDING SHALL BE COMPACTED SAND OR FINE GRANULAR MATERIAL. ALL COMPACTION SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CEAM SPECIFICATION AND THE GEOTECHNICAL REPORT.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE PERFORMED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CITY DEPARTMENT OF ENGINEERING AND BUILDING INSPECTIONS DEPARTMENT AND THE CONSTRUCTION ENGINEER MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, OR WORK IMPACTING PUBLIC UTILITIES.
- ALL SITE UTILITY SERVICES SHALL TERMINATE 5' FROM THE EXTERIOR BUILDING WALL UNLESS OTHERWISE NOTED. THE SITE UTILITY CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR AND MECHANICAL ENGINEER TO DETERMINE THE RESPONSIBILITY OF BRINGING THE SERVICE(S) INTO THE BUILDING, INSPECTIONS AND TESTING PER APPLICABLE GOVERNING AGENCIES.
- ALL NEW WATERMAIN AND SERVICES MUST HAVE A MINIMUM OF 8.0 FEET OF COVER. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. THE CONTRACTOR SHALL FIELD ADJUST WATERMAIN TO AVOID CONFLICTS WITH SANITARY SEWER, STORM SEWER, AND SERVICES AS REQUIRED. INSULATION OF WATERMAIN AND SANITARY SEWER LINES SHALL BE PROVIDED WHERE 8.0 FEET MINIMUM DEPTH CAN NOT BE ATTAINED.
- PER MINNESOTA DEPARTMENT OF LABOR & INDUSTRY REQUIREMENTS, A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FROM WATERMAIN TO ANY MANHOLE, SEPTIC SYSTEM, CATCH BASIN, SEWER PIPE, OR OTHER SOURCE OF CONTAMINATION, MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE UNLESS OTHERWISE SHOWN.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS OF SANITARY STRUCTURE(S) AND UNDERGROUND SYSTEM(S) FOR ENGINEER'S REVIEW.
- ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- HYDRANT USE: CONTRACTOR IS RESPONSIBLE TO NOTIFY PUBLIC UTILITIES DEPARTMENT WHEN THEY NEED TO USE A HYDRANT. ONLY PRE-AUTHORIZED HYDRANTS WILL BE USED. HYDRANTS TO BE OPERATED ONLY WITH PROPER EQUIPMENT SUCH AS A HYDRANT NUT WRENCH, NOT A PIPE WRENCH. HYDRANT METER IS AVAILABLE FROM PUBLIC UTILITIES DEPARTMENT. ANY TRUCK, ETC. FILLED FROM A HYDRANT MUST BE METRED, MUST HAVE PHYSICAL BREAK OR BACK-FLOW PREVENTER APPROVED BY PUBLIC UTILITIES DEPARTMENT. ALSO APPLIES TO SUBCONTRACTORS.
- OPERATING VALVES FOR TURNING WATER MAIN ON/OFF: PUBLIC UTILITIES DEPARTMENT WILL OPERATE ALL VALVES AND FILL ALL WATER MAINS (PUBLIC AND PRIVATE). CONTRACTOR SHALL GIVE AT LEAST 24 HOURS NOTICE TO HAVE WATER SHUT OFF AND SHALL NOTIFY IN WRITING, ALL AFFECTED CUSTOMERS AT LEAST 24 HOURS IN ADVANCE BEFORE SHUT OFF; ATTACH TO DOOR, ETC., NOT IN MAILBOXES.
- TEMPORARY SERVICE: THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE IF SERVICE CANNOT BE RESTORED SAME DAY. IF USING HYDRANT FOR TEMPORARY SERVICE, NOTIFY PUBLIC UTILITIES DEPARTMENT AND USE ONLY PRE-APPROVED HYDRANT AND SUPPLIED HYDRO METER WITH BACK FLOW. THE CONTRACTOR'S TEMPORARY MAIN SHALL BE DISINFECTED, FLUSHED AND BACTERIOLOGICAL ANALYSIS SHOWN NEGATIVE PRIOR TO PUTTING THE TEMPORARY SYSTEM IN SERVICE. THE TEMPORARY WATER SYSTEM SHALL BE IN PLACE PRIOR TO THE PUBLIC UTILITIES DEPARTMENT SHUTTING OFF ANY WATER MAINS.
- REFER TO GEOTECHNICAL ENGINEERING REPORT (REPORT MP255193), DATED DECEMBER 5, 2025 AS PREPARED BY TERRACON CONSULTANTS, FOR AN EXISTING SUBSURFACE SITE CONDITION ANALYSIS AND CONSTRUCTION RECOMMENDATIONS INCLUDING BUT NOT LIMITED TO:
  - REUSE OF ON-SITE SOILS
  - GROUNDWATER AND RECOMMENDATIONS FOR EXCAVATION DEWATERING.
  - SITE GRADING AND SUBGRADE PREPARATION.
  - PAVEMENTS AND EXTERIOR SLABS.
  - TRENCH EXCAVATION AND BACKFILL.
  - EXTERIOR UTILITY SUPPORTS.
  - FROST PROTECTION.
- CONTRACTOR SHALL PROVIDE AS-BUILT INFORMATION OF CONSTRUCTED UTILITIES (RECOMMENDED PRIOR TO BACKFILLING) PER APPLICABLE PERMIT REQUIREMENTS AND/OR DEVELOPMENT AGREEMENTS. UTILITY AS-BUILTS MUST BE PROVIDED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
- ALL UNUSED UTILITY SERVICES SHALL BE ABANDONED PER THE REQUIREMENTS OF THE APPLICABLE GOVERNING AGENCIES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED UTILITY PERMITS FROM THE APPLICABLE GOVERNING AGENCIES. CONTACT UTILITIES (952-563-8777) FOR PERMIT INFORMATION.

**CALL BEFORE YOU DIG!**  
**Gopher State One Call**  
 TWIN CITY AREA: 651-454-0002  
 TOLL FREE: 1-800-252-1166

**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.



710 South 2nd Street, 8th Floor  
 Minneapolis, MN 55401  
 phone: (612) 746-4260  
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**PRELIMINARY**  
 NOT FOR CONSTRUCTION

CITY OF BLOOMINGTON  
**SALT SHED AND BRINE BUILDING**  
 BLOOMINGTON, MN

DATE  
**01/13/2026**  
 PHASE  
**PLANNING**  
**COMMISSION**  
 PROJECT  
**22263.01**  
 SHEET

**C4-1**  
 SEWER & WATER PLAN