UST MULTIPURPOSE ARENA

2260 SUMMIT AVE, ST. PAUL, MN 55105

BUILDING PERMIT SET

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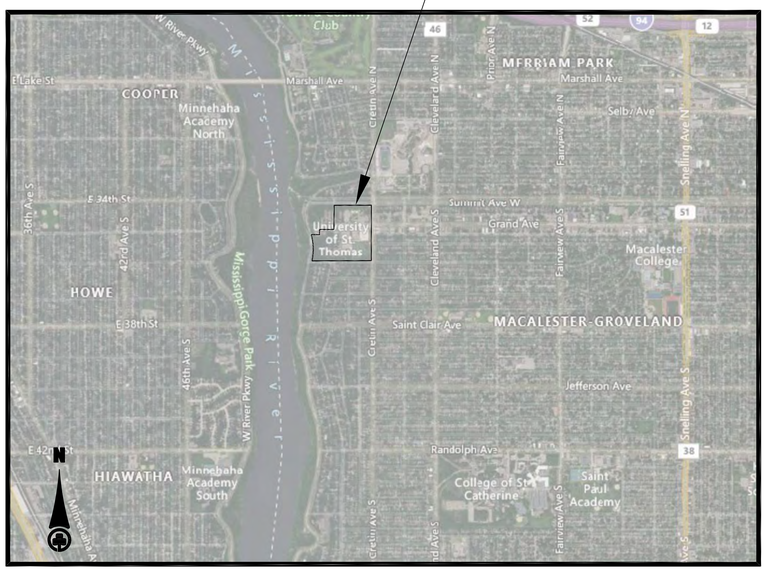
PROJECT LOCATION



VICINITY MAP

NOT TO SCALE

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DRAWING INDEX LEGEND

FILLED CIRCLE INDICATES DRAWING INCLUDED WITHIN THIS ISSUE
MOST RECENT REVISION NUMBER
MOST RECENT ISSUE OR REVISION DATE

○	-	X/XX/20XX	CX	SHEET TITLE

APPROVED

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with code ordinances, rules, laws and regulations.

Approved Date: 04/04/24

Approved By: Ta Anderson

Plan Review Supervisor

Then plans shall be available for all requested inspections.

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PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA
JOB NO.	**DATE**
701480	03.01.2024

ISSUE RECORD

ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
2	06/22/2023	50% SCHEMATIC DESIGN
3	09/01/2023	100% SCHEMATIC DESIGN
4	11/03/2023	UI CD SET - BULL 1
5	11/17/2023	50% DESIGN DEVELOPMENT
6	12/11/2023	ARENA BID PKG-3
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

COVER SHEET

C001

C:\Users\zthor\DCACCDocs\Ryan Companies\701480 UST Athletics Hockey Arena\Project Files\Ryan Civil\02 Sheet Files\701480 - C001 COVER SHEET.dwg

Plans are subject to Ryan Companies Agreement
2260 SUMMIT AVE UST Multipurpose Arena

EXISTING CONDITIONS NOTES

1. INFORMATION ON THE EXISTING CONDITIONS PLAN COMBINES THE SURVEYED INFORMATION SHOWN ON SHEETS C100-106, PROVIDED BY SUNDE LAND SURVEYING DATED 06/28/2021, AND SUPPLEMENTAL INFORMATION TAKEN FROM ADDITIONAL SOURCES/ASSUMPTIONS INCLUDING THE UNIVERSITY OF ST. THOMAS SCHOENECKER CENTER PLANS, PROVIDED BY KIMLEY-HORN AND ASSOCIATES, INC. DATED 04/26/2022, FIELD RECONNAISSANCE COMPLETED BY ST. THOMAS STAFF AND RYAN COMPANIES STAFF, ST. THOMAS RECORD DRAWINGS, AND SURVEY INFORMATION FROM WESTWOOD. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.

2. CONSTRUCTION IS EXPECTED TO START AFTER COMPLETION OF THE SCHOENECKER CENTER PROJECT IS COMPLETE. IF CONSTRUCTION DOES BEGIN PRIOR TO COMPLETION OF THE SCHOENECKER CENTER PROJECT, COORDINATION WITH MCGOUGH WILL BE REQUIRED FOR THE TWO CONSTRUCTION PROJECTS TO COINCIDE.

REMOVAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO THE COMMENCEMENT OF REMOVALS AND SITE GRADING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE PLANS.
2. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 1-800-252-1166 OR 811) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO EXCAVATION.
3. ALL EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO REMOVALS.
4. CONTRACTOR TO REMOVE/RELOCATE EXISTING PRIVATE UTILITIES AS NECESSARY. CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES.
5. CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NOTED ON PLANS. ALL PERMITS, APPLICATIONS AND FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
6. CONTRACTOR IS RESPONSIBLE FOR PROTECTING, OR REMOVING AND REINSTALLING ALL FENCES, SIGNS, AND OTHER MISCELLANEOUS ITEMS. SERVICE MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. TEMPORARY OR PERMANENT RELOCATION OF ABOVE ITEMS MAY BE NECESSARY AND SHALL BE COORDINATED WITH THE APPROPRIATE PARTY. ALL WORK REQUIRED TO COMPLETE THE ABOVE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
7. CARE MUST BE TAKEN DURING CONSTRUCTION AND EXCAVATION TO PROTECT ANY SURVEY MONUMENTS AND/OR PROPERTY IRONS.
8. EXISTING PAVEMENT WITHIN RIGHT-OF-WAY SHALL BE SAWCUT IN ACCORDANCE WITH CITY REQUIREMENTS.
9. CONTRACTOR SHALL REMOVE ALL SITE SURFACE FEATURES WITHIN REMOVAL LIMITS UNLESS OTHERWISE NOTED.
10. CONTRACTOR TO CLEAR AND GRUB EXISTING VEGETATION WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED. STRIP TOPSOIL, AND STOCKPILE ON-SITE. REFER TO EROSION CONTROL PLAN, GRADING PLAN AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR SEDIMENT AND EROSION CONTROL REQUIREMENTS.
11. TREE PROTECTION FENCING SHALL BE INSTALLED AT THE DRIP LINE OF TREES TO REMAIN WITHIN THE LIMITS OF DISTURBANCE PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT.

EROSION CONTROL NOTES

1. ALL PERIMETER SILT FENCE AND ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO CONSTRUCTION. SEE CONSTRUCTION SEQUENCING.
2. THE GRADING CONTRACTOR SHALL INSTALL CATCH BASIN EROSION CONTROL MEASURES.
3. INITIATED IMMEDIATELY AND COMPLETED WITHIN 7 DAYS OF SITE GRADING OR INACTIVITY, ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, EROSION CONTROL BLANKET OR ROCK BASE. REFER TO LANDSCAPE PLANS FOR MATERIALS.
4. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, WATERSHED, COUNTY AND STATE PERMITS AS REQUIRED.
5. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF ACCUMULATED SILT IN FRONT OF SILT FENCES DURING THE DURATION OF CONSTRUCTION.
6. ANY EXCESS SEDIMENT IN PROPOSED BASINS SHALL BE REMOVED BY THE GRADING CONTRACTOR.
7. REMOVE ALL EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED.
8. THE GRADING CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS.
9. DUST MUST BE ADEQUATELY CONTROLLED. IF BLOWING DUST BECOMES A NUISANCE, THE GRADING CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK TO ALL CONSTRUCTION AREAS.
10. CONTRACTOR TO CLEAN OUT FILTRATION SYSTEMS, CATCH BASINS, AND STORMSEWER SYSTEM AT THE END OF THE PROJECT.
11. ESTIMATED QUANTITIES REFER TO INITIAL INSTALLED QUANTITIES. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND/OR REPLACE BMPS AS NEEDED.
12. STREETS MUST BE CLEANED AND SWEPT WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED AND MAINTAINED. SWEEP ADJACENT STREETS IN ACCORDANCE WITH CITY REQUIREMENTS.
13. ON SLOPES 4:1 OR GREATER, MAINTAIN SHEET FLOW AND MINIMIZE RILLS AND/OR GULLIES.
14. ALL STORM DRAINS AND INLETS MUST BE PROTECTED UNTIL ALL SOURCES OF POTENTIAL DISCHARGE ARE STABILIZED.
15. TEMPORARY SOIL STOCKPILES MUST HAVE EFFECTIVE SEDIMENT CONTROL AND CAN NOT BE PLACED IN SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS.
16. FINAL STABILIZATION REQUIRES THAT ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED AND THAT DISTURBED AREAS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH 70% OF THE EXPECTED FINAL DENSITY, AND THAT ALL PERMANENT PAVEMENTS HAVE BEEN INSTALLED. ALL TEMPORARY BMP'S SHALL BE REMOVED, DITCHES STABILIZED, AND SEDIMENT SHALL BE REMOVED FROM PERMANENT CONVEYANCES AND SEDIMENTATION BASINS IN ORDER TO RETURN THE POND TO DESIGN CAPACITY.
17. THE WATERSHED DISTRICT OR THE CITY MAY HAVE REQUIREMENTS FOR INSPECTIONS VERIFYING PROPER CONSTRUCTION OF THE BMPS. CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS.
18. REFER TO SWPPP FOR ADDITIONAL EROSION CONTROL REQUIREMENTS.

SITE NOTES

1. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING CONDITIONS. THIS WOULD INCLUDE ALL EXISTING UTILITIES AND TOPOGRAPHIC FEATURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF BUILDING, EDGE OF PAVEMENT, OR TO PROPERTY LINE, UNLESS OTHERWISE NOTED.
3. ALL PAVING, CONCRETE CURB, GUTTER AND SIDEWALK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN PER THE CIVIL DETAILS AND STATE/LOCAL JURISDICTION REQUIREMENTS.
4. ACCESSIBLE PARKING AND ACCESSIBLE ROUTES SHALL BE PROVIDED PER CURRENT ADA STANDARDS AND LOCAL/STATE REQUIREMENTS.
5. TYPICAL FULL SIZED PARKING STALL IS 9.0' X 18.0' UNLESS OTHERWISE NOTED.
6. ALL RADII ARE TO GUTTER LINE OR PAVEMENT EDGE UNLESS OTHERWISE NOTED.
7. ALL CONCRETE CURB AND GUTTER RADII SHALL BE 5.0' UNLESS OTHERWISE NOTED.
8. ALL CURB TERMINI TO HAVE A 2.0' TAPER UNLESS OTHERWISE NOTED.
9. BITUMINOUS IMPREGNATED FIBER BOARD TO BE PLACED AT FULL DEPTH OF CONCRETE ADJACENT TO EXISTING STRUCTURES AND BEHIND CURB ADJACENT TO DRIVEWAYS AND SIDEWALKS.

SIGNAGE AND STRIPING NOTES

1. ALL TEMPORARY AND PERMANENT SITE SIGNAGE, STRIPING, AND TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. CONTRACTOR SHALL PAINT ALL STALLS, ACCESSIBLE STALLS, LOGOS AND CROSS HATCH LOADING AISLES WITH WHITE PAVEMENT MARKING PAINT, 4" IN WIDTH.
3. CONTRACTOR SHALL PAINT ANY/ALL DIRECTIONAL TRAFFIC ARROWS, AS SHOWN, IN WHITE PAINT.
4. ALL SIGNAGE SHALL INCLUDE POST, CONCRETE FOOTING AND STEEL CASING WHERE REQUIRED.
5. ALL SIGNAGE NOT PROTECTED BY CURB, LOCATED IN PARKING LOT OR OTHER PAVED AREAS TO BE PLACED IN STEEL CASING, FILLED WITH CONCRETE AND PAINTED YELLOW. REFER TO DETAIL.
6. ANY/ALL STOP SIGNS TO INCLUDE A 24" WIDE PAINTED STOP BAR IN WHITE PAINT, PLACED AT THE STOP SIGN LOCATION, A MINIMUM OF 4' FROM CROSSWALK IF APPLICABLE. ALL STOP BARS SHALL EXTEND FROM DIRECTIONAL TRANSITION BETWEEN LANES TO CURB.
7. ALL SIGNS TO BE PLACED 18" BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.

GRADING NOTES

1. SUBCONTRACTORS WHOSE WORK REQUIRES EXCAVATION SHALL CONTACT "GOPHER STATE ONE-CALL" (651-454-0002 OR 1-800-252-1166 OR 811) FOR UTILITY LOCATIONS 48 HOURS PRIOR TO EXCAVATION. HE/SHE SHALL REPAIR OR REPLACE DAMAGED UTILITIES DURING CONSTRUCTION AT NO COST TO OWNER OR GENERAL CONTRACTOR.
2. EXISTING TOPOGRAPHY PER A COMBINATION OF THE SUNDE LAND SURVEYING SURVEY DATED 06/28/2021 AND THE PROPOSED SCHOENECKER CENTER DESIGN BY KIMLEY-HORN AND ASSOCIATES DATED 04/26/2022.
3. REFER TO GEOTECHNICAL EVALUATION REPORT, DATED 04/03/2023 AS PREPARED BY AMERICAN ENGINEERING TESTING (AET) FOR AN EXISTING SUBSURFACE SITE CONDITION ANALYSIS AND CONSTRUCTION RECOMMENDATIONS.
4. CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING CONDITIONS. THIS WOULD INCLUDE ALL EXISTING UTILITIES AND TOPOGRAPHIC FEATURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
5. SUITABLE GRADING MATERIAL SHALL CONSIST OF ALL SOIL ENCOUNTERED ON THE SITE WITH EXCEPTION OF TOPSOIL, DEBRIS, ORGANIC MATERIAL AND OTHER UNSTABLE MATERIAL AS DIRECTED BY THE GEOTECHNICAL ENGINEER. STOCKPILE TOPSOIL AND GRANULAR FILL AT LOCATIONS DIRECTED BY GENERAL CONTRACTOR.
6. SUBGRADE EXCAVATION SHALL BE BACKFILLED IMMEDIATELY AFTER EXCAVATION TO HELP OFFSET ANY STABILITY PROBLEMS DUE TO WATER SEEPAGE OR STEEP SLOPES. WHEN PLACING NEW SURFACE MATERIAL ADJACENT TO EXISTING PAVEMENT, THE EXCAVATION SHALL BE BACKFILLED PROMPTLY TO AVOID UNDERMINING OF THE EXISTING PAVEMENT.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
8. PROPOSED GRADES SHOWN ARE FINISHED GRADES.
9. ALL EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, ANY ABANDONED UTILITY ITEMS, AND OTHER UNSTABLE MATERIALS SHALL BECOME THE PROPERTY OF THE SUBCONTRACTOR AND SHALL BE DISPOSED OFF THE CONSTRUCTION SITE.
10. THE MINIMUM GRADED SLOPE FROM EDGE OF BUILDING SHALL BE 2 PERCENT UNLESS OTHERWISE NOTED.
11. FINISHED GROUND AND SOD ELEVATION ADJACENT TO BUILDING SHALL BE 6" BELOW FLOOR ELEVATION UNLESS OTHERWISE NOTED.
12. EARTHWORK & PAVING CONTRACTORS ARE RESPONSIBLE FOR GRADING AND SLOPING THE FINISHED GROUND SURFACE TO PROVIDE SMOOTH & UNIFORM SLOPES, WHICH PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING AND PREVENT PONDING IN LOWER AREAS. ANY DERIVATION FROM PLANS SHALL BE APPROVED BY THE PROJECT ENGINEER.
13. GRADING BEHIND CURBS SHALL START AT THE TOP OF CURB.
14. CONTRACTOR SHALL VERIFY THAT EXISTING UTILITIES HAVE ADEQUATE COVER TO MEET PROVIDER REQUIREMENTS IN AREAS OF GRADE REVISIONS.
15. RETURN ALL TEMPORARY DIVERSIONS TO EXISTING GRADE UPON FINAL STABILIZATION.
16. REMOVE SEDIMENT FROM EXISTING STORM SEWER IF PRESENT.
17. SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
18. CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS.
19. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 6 INCHES (COMPACTED) OF TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED. SEE LANDSCAPE PLAN FOR DETAILS.
20. STREETS MUST BE CLEANED AND SWEPT WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
21. DUST MUST BE ADEQUATELY CONTROLLED.
22. ON SLOPES 4:1 OR GREATER MAINTAIN SHEET FLOW AND MINIMIZE RILLS AND/OR GULLIES.
23. ALL STORM DRAINS AND INLETS MUST BE PROTECTED UNTIL ALL SOURCES OF POTENTIAL DISCHARGE ARE STABILIZED.
24. TEMPORARY SOIL STOCKPILES MUST HAVE EFFECTIVE SEDIMENT CONTROL AND CAN NOT BE PLACED IN SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS.
25. FINAL STABILIZATION REQUIRES THAT ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED AND THAT DISTURBED AREAS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH 70% OF THE EXPECTED FINAL DENSITY, AND THAT ALL PERMANENT PAVEMENTS HAVE BEEN INSTALLED. ALL TEMPORARY BMP'S SHALL BE REMOVED, DITCHES STABILIZED, AND SEDIMENT SHALL BE REMOVED FROM PERMANENT CONVEYANCES AND SEDIMENTATION BASINS IN ORDER TO RETURN THE POND TO DESIGN CAPACITY.
26. THE WATERSHED DISTRICT OR THE CITY MAY HAVE REQUIREMENTS FOR INSPECTIONS VERIFYING PROPER CONSTRUCTION OF THE BMPS.
27. SEE SWPPP FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.
28. SEE UTILITY PLAN FOR WATER, STORM AND SANITARY SEWER INFORMATION.
29. SEE PAVING PLAN FOR CURB AND BITUMINOUS TAPER LOCATIONS.
30. ACCESSIBLE PARKING AND ACCESSIBLE ROUTES SHALL BE PROVIDED PER CURRENT ADA STANDARDS AND LOCAL/STATE REQUIREMENTS.
31. BASED ON GROUNDWATER ELEVATIONS ENCOUNTERED DURING GEOTECHNICAL EXPLORATION TEMPORARY DEWATERING OF EXCAVATIONS MAY BE NEEDED. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

UTILITY NOTES

1. PRIOR TO CONSTRUCTION, SUBCONTRACTORS WHOSE WORK REQUIRES EXCAVATION SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND INVERTS, SHOWN OR NOT SHOWN. ANY DISCREPANCY BETWEEN PLANS AND FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER IMMEDIATELY.
2. THE UTILITY CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF THE BUILDING PIPE SYSTEM PRIOR TO CONSTRUCTING SERVICE CONNECTIONS.
3. ALL UTILITY WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY SPECIFICATIONS AND BUILDING PERMIT REQUIREMENTS. ALL SANITARY SEWER, STORM 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.
4. ALL UTILITY PIPE BEDDING SHALL BE COMPACTED SAND OR FINE GRANULAR MATERIAL. UTILITY TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH GUIDELINES PROVIDED BY THE GEOTECHNICAL ENGINEER.
5. 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 MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, OR WORK IMPACTING PUBLIC UTILITIES.
6. ALL STORM SEWER , SANITARY SEWER AND WATER SERVICES SHALL TERMINATE 5' FROM THE BUILDING FACE UNLESS OTHERWISE NOTED.
7. CONNECTION TO THE EXISTING SANITARY SEWER AND WATER REQUIRES INSPECTION BY THE CITY AND SAINT PAUL REGIONAL WATER SERVICES, RESPECTIVELY.
8. FIELD ADJUST ALL CASTINGS TO MATCH FINAL GRADES.
9. THE UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING THE APPROPRIATE SEWER, WATER AND PLUMBING PERMITS FROM THE CITY'S BUILDING DEPARTMENT.
10. GENERAL CONTRACTOR SHALL COORDINATE WORK WITH ALL UTILITY COMPANIES.
11. VERTICAL CLEARANCE BETWEEN SANITARY, STORM AND WATERMAIN TO BE 36" MINIMUM. HORIZONTAL CLEARANCE BETWEEN SEWER (SANITARY/STORM) AND WATERMAIN TO BE 10' MINIMUM.
12. ALL NEW WATERMAIN AND SERVICES MUST HAVE A MINIMUM OF 8.0' 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 WATER AND SANITARY SEWER LINES SHALL BE PROVIDED WHERE 8.0' MINIMUM DEPTH CAN NOT BE ATTAINED.
13. ALL FIRE HYDRANTS SHALL BE LOCATED 4 FEET BEHIND BACK OF CURB OR EDGE OF PAVEMENT PER SPRWS REQUIREMENTS UNLESS OTHERWISE NOTED.
14. PROPOSED PIPE MATERIALS:

WATERMAIN	CLASS 52 DIP, CLASS 53 DIP, C900 PVC
SANITARY SEWER	SDR 35 PVC, SDR 26 PVC, SCH 40 PVC, C900 PVC
STORM SEWER	RCP, SCH 40 PVC, DUAL WALL HDPE (SITE DRAINAGE)
STORM SEWER	SCH 40 PVC (BUILDING SERVICES)
DRAINTILE	SLOTTED HDPE (PAVEMENT SUBDRAIN), SDR 35 PVC (BUILDING FOUNDATION)

15. CONTRACTOR SHALL MAINTAIN AS-BUILT PLANS THROUGHOUT CONSTRUCTION AND SUBMIT THESE PLANS TO ENGINEER UPON COMPLETION OF WORK.
16. ALL PORTIONS OF THE STORM SEWER SYSTEM, INCLUDING CATCH BASINS, LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED ACCORDANCE WITH MINNESOTA RULES, PART 4715.2820.
17. ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT (SEE MINNESOTA RULES, PART 4715.0700). APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, AND OTHER STRUCTURES.
18. HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINS MUST COMPLY WITH MINNESOTA RULES, PART 4715.0540:
    a) PIPES 4-INCH TO 10-INCH IN SIZE MUST COMPLY WITH AASHTO M252.
    b) PIPES 12-INCH TO 60-INCH IN SIZE MUST COMPLY WITH ASTM F2306.
    c) ALL FITTINGS MUST COMPLY WITH ASTM D3212.
    d) WATER-TIGHT JOINTS MUST BE USED AT ALL CONNECTIONS INCLUDING STRUCTURES.
19. ALL NON-METALLIC UTILITIES TO PROVIDE TRACER WIRE.

REMOVAL NOTES - AGENCY

1. THE REMOVAL, PRUNING, AND/OR PLANTING OF TREES ON PUBLIC PROPERTY REQUIRES AN APPROVED FORESTRY TREE WORK PERMIT FROM THE CITY FORESTER (651-632-2436). ANY WORK MUST BE COMPLETED BY A LICENSED TREE CONTRACTOR.

EROSION CONTROL NOTES - AGENCY

1. SITE SHALL BE KEPT REASONABLY FREE FROM DEBRIS, TRASH AND CONSTRUCTION WASTES RESULTING FROM THE PERFORMANCE OF THE WORK. ALL TRASH, DEBRIS, AND WASTE MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT A LICENSED WASTE DISPOSAL OR RECYCLING FACILITY, ON A REGULAR BASIS.

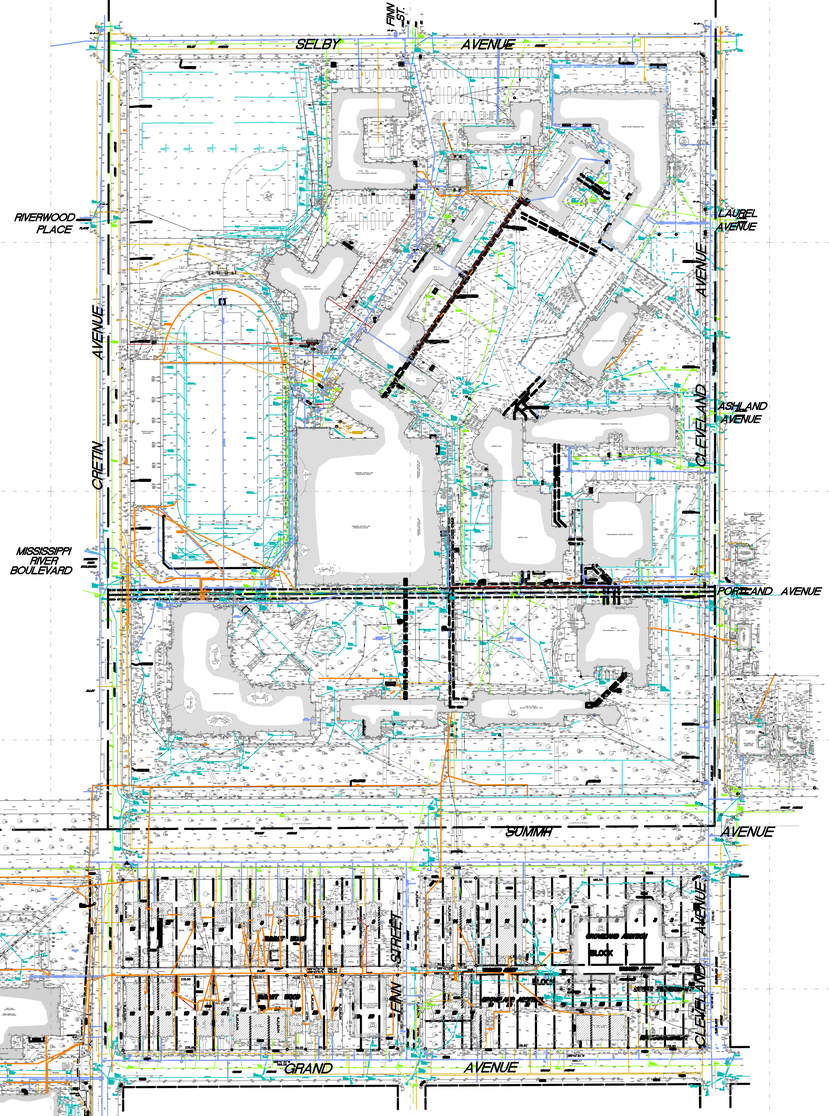
SITE NOTES - AGENCY

1. CONSTRUCTION IN RIGHT OF WAY: ALL WORK ON CURBS, DRIVEWAYS, AND SIDEWALKS WITHIN THE PUBLIC RIGHT OF WAY MUST BE DONE TO CITY STANDARDS AND SPECIFICATIONS BY A CONTRACTOR LICENSED TO WORK IN THE CITY RIGHT-OF-WAY UNDER A PERMIT FROM PUBLIC WORKS SIDEWALK SECTION (651-266-6120). SIDEWALK GRADES MUST BE CARRIED ACROSS DRIVEWAYS.
2. CONSTRUCTION OF THE DEVELOPMENT THAT NECESSITATES TEMPORARY USE OF THE RIGHT-OF-WAY (ROW) FOR CONSTRUCTION PURPOSES SHALL BE LIMITED TO EQUIPMENT, PERSONNEL, DEVICES AND APPURTENANCES THAT ARE REMOVABLE FOLLOWING CONSTRUCTION. ENCROACHMENT PERMITS WILL NOT BE GRANTED FOR DEVICES SUCH AS TIE BACKS, ROCK BOLTS, H-PILES, LAGGING, TIMBERS, SHEET PILING, ETC. THAT THE OWNER IS SEEKING TO ABANDON IN THE ROW.
3. OBSTRUCTION PERMITS: THE CONTRACTOR MUST OBTAIN AN OBSTRUCTION PERMIT IF CONSTRUCTION (INCLUDING SILT FENCES) WILL BLOCK CITY STREETS, SIDEWALKS OR ALLEYS, OR IF DRIVING OVER CURBS.
4. ORDERING OBSTRUCTION AND EXCAVATION PERMITS: CONTACT PUBLIC WORKS RIGHT OF WAY SERVICE DESK AT (651) 266-6151. IT IS STRONGLY RECOMMENDED THAT CONTRACTORS CALL FOR COST ESTIMATES PRIOR TO BIDDING TO OBTAIN ACCURATE COST ESTIMATES.
5. ENCROACHMENTS: PER CHAPTER 134 OF THE LEGISLATIVE CODE, NO PERSON SHALL CONSTRUCT AND MAINTAIN ANY PROJECTION OR ENCROACHMENT WITHIN THE PUBLIC RIGHT-OF-WAY.
6. NO PRIVATE FACILITIES IN THE RIGHT OF WAY: THE DEVELOPER IS STRICTLY PROHIBITED FROM INSTALLING PRIVATE ELECTRICAL WIRING, CONDUIT, RECEPTACLES AND/OR LIGHTING IN THE CITYS RIGHT OF WAY. THIS INCLUDES STUBBING CONDUIT OR CABLE INTO THE PUBLIC RIGHT OF WAY TO ACCOMMODATE UTILITY FEEDS TO THE SITE. COORDINATE WITH EACH UTILITY PRIOR TO CONSTRUCTION TO DETERMINE FEED POINTS INTO THE PROPERTY. UTILITIES ARE RESPONSIBLE FOR SECURING EXCAVATION PERMITS TO RUN THEIR SERVICE INTO A SITE, AND (WHERE REQUIRED) SUBMITTING PLANS FOR REVIEW BY THE PUBLIC WORKS UTILITY REVIEW COMMITTEE.
7. EXCAVATION PERMITS: ALL DIGGING IN THE PUBLIC RIGHT OF WAY REQUIRES AN EXCAVATION PERMIT. IF THE PROPOSED BUILDING IS CLOSE TO THE RIGHT OF WAY, AND EXCAVATING INTO THE RIGHT OF WAY IS NEEDED TO FACILITATE CONSTRUCTION, CONTACT THE UTILITY INSPECTOR.
8. FAILURE TO SECURE PERMITS: FAILURE TO SECURE OBSTRUCTION PERMITS OR EXCAVATION PERMITS WILL RESULT IN A DOUBLE-PERMIT FEE AND OTHER FEES REQUIRED UNDER CITY OF ST. PAUL LEGISLATIVE CODES.
9. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO THE MAINLINE SIDEWALK, CURB, DRIVE ACCESS AND BOULEVARD LANDSCAPING CAUSED DURING THE CONSTRUCTION. CONTRACTOR ADVISED TO DOCUMENT PRE-EXISTING CONDITION OF THE RIGHT OF WAY PRIOR TO COMMENCEMENT OF THE CONSTRUCTION.
10. ANY PUBLIC INFRASTRUCTURE DAMAGE RESULTING FROM THE CONTRACTORS ACTIVITIES, INCIDENTAL OR OTHERWISE, SHALL BE REPAIRED/REPLACED TO THE SATISFACTION OF THE CITY AT NO COST TO THE CITY.
11. ROADWAY RESTORATION: AS PER THE CITYS STANDARD SPECIFICATION FOR STREET OPENINGS POLICY, RESTORATION ON ROADWAY SURFACES LESS THAN 5 YEARS OLD WILL REQUIRE FULL WIDTH MILL AND OVERLAY OR ADDITIONAL DEGRADATION FEES. DEGRADATION FEES ARE DETERMINED BY CONTACTING THE RIGHT OF WAY SERVICE DESK AT (651) 266-6151. PAVEMENT RESTORATION SHALL BE COMPLETED BY THE ST. PAUL PUBLIC WORKS STREET MAINTENANCE DIVISION. ALL RELATED COSTS ARE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR. CONTACT STREET MAINTENANCE AT (651) 266-9700 FOR ESTIMATE OF COSTS FOR PAVEMENT RESTORATION.
12. RESTORATION OF ASPHALT AND CONCRETE PAVEMENTS ARE PERFORMED BY THE PUBLIC WORKS STREET MAINTENANCE DIVISION. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT TO THE CITY FOR THE COST OF THESE RESTORATIONS. THE CONTRACTOR SHALL CONTACT PUBLIC WORKS STREET MAINTENANCE TO SET UP A WORK ORDER PRIOR TO BEGINNING ANY REMOVALS IN THE STREET AT 651-266-9700. PROCEDURES AND UNIT COSTS ARE FOUND IN STREET MAINTENANCE'S "GENERAL REQUIREMENTS - ALL RESTORATIONS" AND ARE AVAILABLE AT THE PERMIT OFFICE.
13. BOULEVARD RESTORATION SHALL INCLUDE THE FOLLOWING: ALL CONCRETE, ASPHALT AND BASE MATERIALS SHALL BE REMOVED FROM THE BOULEVARD AREA. BOULEVARD SOILS ARE TO BE PROTECTED DURING CONSTRUCTION. SOIL COMPACTION DUE TO CONSTRUCTION ACTIVITIES SHALL BE CORRECTED TO THE SATISFACTION OF, AND AT NO COST TO, THE CITY PRIOR TO FINAL GRADING. BOULEVARDS SHALL BE RESTORED WITH A MINIMUM OF 6" OF TOPSOIL.
14. EXISTING PUBLIC PROPERTY TREES ARE TO BE PROTECTED AT ALL TIMES. TREES DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO THE SATISFACTION OF AND AT NO COST TO THE CITY AS DETERMINED BY THE FORESTRY MANAGER. THE CONTRACTOR IS ADVISED TO DOCUMENT PRE-EXISTING CONDITIONS OF THE RIGHT OF WAY PRIOR TO BEGINNING CONSTRUCTION.
15. PUBLIC PROPERTY TREES SHALL BE PROTECTED BY ESTABLISHING A TREE PROTECTION ZONE USING 4 TALL FENCING INSTALLED AT THE DRIP LINE OF THE TREE. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE WORK AND MAINTAINED FOR THE DURATION OF THE PROJECT. PROPOSED WORK WITHIN OR CHANGES TO THE LOCATION OF TREE PROTECTION FENCING SHALL BE REVIEWED BY THE CITY FORESTER PRIOR TO ALTERATION.
16. CONSTRUCTION SUPPLIES, MATERIALS, SPOILS, EQUIPMENT, AND VEHICLES SHALL NOT BE STORED OR OPERATED WITHIN THE DRIP LINE OF ANY PUBLIC STREET TREE OR ON TURF BOULEVARDS WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY FORESTER. IF THE BOULEVARD MUST BE USED FOR CONSTRUCTION ACTIVITIES, SITE ACCESS ROUTES, MATERIAL STORAGE OR OTHER RELATED ACTIVITIES, PROTECTIVE MEASURES APPROVED BY THE CITY FORESTER SHALL BE TAKEN TO REDUCE SOIL COMPACTION AND PROTECT TREE(S) FROM DAMAGE.
17. SIGNING: SIGNS REGULATING PARKING AND/OR TRAFFIC ON PRIVATE PROPERTY (OUTSIDE OF THE PUBLIC RIGHT- OF-WAY ROW) SHALL BE FURNISHED AND INSTALLED BY THE PROPERTY OWNER OR CONTRACTOR AT NO COST TO THE CITY OF ST. PAUL DEPARTMENT OF PUBLIC WORKS. REMOVAL OF EXISTING SIGNS WITHIN THE PUBLIC ROW THAT REGULATE TRAFFIC AND OR PARKING SHALL BE COMPLETED BY THE CITY AT THE EXPENSE OF THE DEVELOPMENT. NEW SIGNS OR THE REINSTALLATION OF EXISTING SIGNS, AS APPROVED BY PUBLIC WORKS TRAFFIC ENGINEERING, REGULATING PARKING AND/OR TRAFFIC IN THE PUBLIC ROW SHALL BE FURNISHED AND INSTALLED BY THE CITY AT THE EXPENSE OF THE DEVELOPMENT. ALL EQUIPMENT, MATERIALS, AND LABOR COSTS ASSOCIATED WITH THE CITY AFFECTING A COMPLETE SIGN INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DEVELOPMENT. CONTACT CHRIS GULDEN OF PUBLIC WORKS 651-266-9778 TWO WEEKS IN ADVANCE OF NEEDED SIGN WORK.
18. STRIPING: STRIPING RESTORATION SHALL BE COMPLETED IMMEDIATELY FOLLOWING FINAL PAVEMENT RESTORATION. ROADWAY STRIPING IMPACTED BY THE WORK ZONE SHALL BE REPLACED IN-KIND AT NO COST TO THE ROAD AUTHORITY. IF THERE ARE QUESTIONS AS TO THE TYPE OF STRIPING MATERIAL TO BE USED, CONTACT CHRIS GULDEN (651.266.9778) IN THE CITYS TRAFFIC OPERATIONS SECTION. IF THERE IS A DESIRE FOR THE CITY OF ST. PAUL PUBLIC WORKS DEPARTMENT TO COMPLETE P

UNIVERSITY OF ST. THOMAS

SHEET INDEX

A–3	NORTH CAMPUS
A–4	NORTH CAMPUS
B–3	NORTH CAMPUS
B–4	NORTH CAMPUS
C–3	NORTH CAMPUS
C–4	NORTH CAMPUS
C–5	NORTH CAMPUS
D–1	SOUTH CAMPUS
D–2	SOUTH CAMPUS
D–3	NORTH–SOUTH CAMPUS
D–4	NORTH–SOUTH CAMPUS
D–5	NORTH–SOUTH CAMPUS
E–1	SOUTH CAMPUS
E–2	SOUTH CAMPUS
E–3	SOUTH CAMPUS
E–4	SOUTH CAMPUS
F–1	SOUTH CAMPUS
F–2	SOUTH CAMPUS
F–3	SOUTH CAMPUS



GENERAL INFORMATION NOTE

The overall campus map was originally surveyed by Comstock & Davis which was aquired by Sunde Land Surveying in 2007. The main and south campus has been resurveyed and had digital contours were generated. However, much of the area south of Summit Avenue changed from the original Comstock surveye which has not been converted into the current layering and formatting used by Sunde Land Surveying. The contours are shown per the Comstock surveys. Physical changes have been located and depicted in those areas. Over the course of years to come these areas should be resurveyed and converted to the current layers and standards, used by Sunde Land Surveying, LLC.

LEGEND

AC	Denotes air conditioner
AGP	Denotes above ground pipes
AIS	Denotes advertising and information sign
BE	Denotes building entrance
BEN	Denotes bench
BH	Denotes beehive catch basin
BILS	Denotes billboard sign
BR	Denotes bike rack
BTL	Denotes beaver tail curb
BWB	Denotes brick wall bottom
CB	Denotes catch basin
CBOX	Denotes control box
CBX	Denotes communication box
CDS	Denotes civil defense siren
CHWP	Denotes chilled water pipe
CIP	Denotes cast iron pipe
CMH	Denotes communication manhole
CO	Denotes cleanout
COL	Denotes building column
CPLT	Denotes concrete planter
CST	Denotes concrete steps
CWB	Denotes concrete wall bottom
CWP	Denotes
DB	Denotes decorative brick pavers
DC	Denotes decorative concrete
DG	Denotes drain grate
DIP	Denotes ductile iron pipe
DT	Denotes drain tile
EB	Denotes electric box
ECB	Denotes emergency call button
EM	Denotes electric meter
EMH	Denotes electric manhole
EO	Denotes electric outlet
FCAP	Denotes filler cap
FF	Denotes finished floor
FH	Denotes fire hookup
FNP	Denotes foul pole net post
FP	Denotes flag pole
FPOL	Denotes foul pole
FW	Denotes face of walk top
G	Denotes gutter
GARB	Denotes garbage
GASP	Denotes gas pump
GAS V	Denotes gas valve
GDCR	Denotes garage door card reader
GLP	Denotes goal post
GM	Denotes gas meter
GMCP	Denotes gas monitor cover plate
GP	Denotes guard post
GRDL	Denotes ground light
GW	Denotes guy wire
HCPB	Denotes handicap push button
HCR	Denotes handicap ramp
HCS	Denotes handicap sign
HH	Denotes handhole
HHC	Denotes communications hand hole
HHE	Denotes electric hand hole
HHSL	Denotes signal light hand hole
HWP	Denotes
HYD	Denotes fire hydrant
INV	Denotes structure invert
IRR	Denotes underground irrigation line
IS	Denotes concrete island
KWB	Denotes keystone wall bottom
LA	Denotes landscaped area
LD	Denotes loading dock
LL	Denotes light location
LP	Denotes light pole
MC	Denotes metal cover
MG	Denotes metal grate
MH	Denotes manhole
MONWELL	Denotes monitoring well
MPOL	Denotes metal pole
MRAL	Denotes metal railing
MST	Denotes metal steps
OD	Denotes overhead door
OHC	Denotes overhead communication line
OHE	Denotes overhead electric line
OHU	Denotes overhead utility line
OPC	Denotes outdoor power center
OVH	Denotes building overhang
PB	Denotes phone box
PEP	Denotes polyethylene pipe
PDU	Denotes drive–up phone booth
PKS	Denotes parking sign
(P)	Denotes per plan
(PLAN)	Denotes per plan–not field verified
PM	Denotes parking meter
PP	Denotes power pole
PPU	Denotes power pole with utility line
PTBL	Denotes picnic table
PVC	Denotes plastic pipe
RC	Denotes ribbon curb
RCP	Denotes reinforced concrete pipe
RD	Denotes roof drain
SAN	Denotes sanitary manhole
SANC	Denotes sanitary cleanout
SAN S	Denotes sanitary sewer
SMH	Denotes storm manhole
SPB	Denotes sprinkler box
STA	Denotes survey control station
STAT	Denotes statue
STC	Denotes top of surmountable curb
STCO	Denotes storm sewer cleanout
ST S	Denotes storm sewer
SWB	Denotes stone wall bottom
TAD	Denotes truncated domes
TB	Denotes telephone box
TC	Denotes top of curb
TCBOX	Denotes traffic control box
TCS	Denotes traffic control signal
TD	Denotes trench drain
TL	Denotes traffic light
TRANS	Denotes electric transformer box
UGC	Denotes underground communication line
UGE	Denotes underground electric line
UGT	Denotes underground telephone line
V	Denotes vent
VP	Denotes vent pipe
VCP	Denotes vitrified clay pipe
WMH	Denotes water manhole
WPLT	Denotes wood planter
WV	Denotes water valve
WW	Denotes window well
W	Denotes water line
APL	Denotes Apple tree
ARB	Denotes Arborvitae
BAS	Denotes Basswood tree
BIR	Denotes Birch tree
BOX	Denotes Boxelder tree
CATA	Denotes Catalpa tree
CED	Denotes Cedar tree
CNUT	Denotes Chestnut tree
COT	Denotes Cottonwood tree
CRAB	Denotes Crabapple tree
DOG	Denotes Dogwood tree
EVG	Denotes Evergreen tree
FIRB	Denotes Balsam Fir tree
FIRD	Denotes Douglas Fir tree
GINK	Denotes Ginkgo tree
HACK	Denotes Hackberry tree
HAW	Denotes Hawthorn tree
HEM	Denotes Hemlock tree
JNP	Denotes Juniper tree
JUNE	Denotes Juneberry tree
LIND	Denotes Linden tree
LOC	Denotes Locust tree
MPL	Denotes Maple tree
MPLAM	Denotes Amur Maple tree
MTASH	Denotes Mountain Ash tree
PIN	Denotes Pine tree
PINR	Denotes Red Pine tree
PINJ	Denotes Jack Pine tree
PINM	Denotes Mugho Pipe tree
PINS	Denotes Scotch Pine tree
PINW	Denotes White Pine tree
SHB	Denotes shrub
SPCB	Denotes Colorado Blue Spruce tree
SPCG	Denotes Colorado Green Spruce tree
SPR	Denotes Spruce tree
TR	Denotes deciduous tree

GENERAL NOTE

1.) Survey coordinate basis: Ramsey County Coordinate System

UTILITY NOTES

1.) Utility information from plans and markings was combined with observed evidence of utilities to develop a view of the underground utilities shown hereon. However, lacking excavation, the exact location of underground features cannot be accurately, completely and reliably depicted. Where additional or more detailed information is required, excavation may be necessary. Comstock & Davis, Inc. has provided a drawing (980568 main campus.dwg) containing utility information which has been incorporated into this drawing.

2.) Other underground utilities of which we are unaware may exist. Verify all utilities critical to construction or design.

3.) Contact GOPHER STATE ONE CALL at 651–454–0002 (800–252–1166) for precise onsite location of utilities prior to any excavation.

DESCRIPTION OF PROPERTY SURVEYED

Part of Sections 4 & 5, Township 28, Range 23, Ramsey County, Minnesota

TITLE COMMITMENT

This survey was prepared without the benefit of current title work. Easements, appurtenances, and encumbrances may exist in addition to those shown hereon. This survey is subject to revision upon receipt of a current title insurance commitment or attorney's title opinion.

BENCHMARKS (BM)

1.) Top of top nut of fire hydrant in the northwest corner of Cretin Avenue & Selby Avenue. Elevation = 875.15 feet (SHEET A–3)

2.) Top of top nut of fire hydrant in the northwest corner of Selby Avenue & Finn Avenue. Elevation = 888.09 feet (SHEET A–3)

3.) Top of top nut of fire hydrant in the northwest corner of Cleveland Avenue and Selby Avenue. Elevation = 893.83 feet (SHEET A–4)

4.) Top of top nut of fire hydrant in the northwest corner of Cretin Avenue & Riverwood Place. Elevation = 873.14 feet (SHEET A–3)

5.) Top of top nut of fire hydrant in the southeast corner of Cretin Avenue & Summit Avenue. Elevation = 869.30 feet (SHEET D–3)

6.) Top of top nut of fire hydrant in the northwest corner of Cleveland Avenue & Summit Avenue. Elevation = 885.96 feet (SHEET D–4)

7.) Top of top nut of fire hydrant in the northwest corner of Cleveland Avenue & Portland Avenue. Elevation = 881.16 feet (SHEET C–4)

8.) Top of top nut of fire hydrant in the northwest corner of Cleveland Avenue & Ashland Avenue. Elevation = 878.09 feet (SHEET B–4)

9.) Top of top nut of fire hydrant in the northwest corner of Cleveland Avenue & Laurel Avenue. Elevation = 891.63 feet (SHEET A–4)

10.) Top of top nut of fire hydrant at west doorway of Dowling Hall. Elevation = 891.07 feet (SHEET B–4)

11.) Top of top nut of fire hydrant at the southeast corner of Morrison Hall. Elevation = 879.93 feet (SHEET B–3)

12.) Top of top nut of fire hydrant 30 feet +/– east of northeast corner of Seminary building. Elevation = 861.98 feet (SHEET D–2)

TREE TAG NOTES:

100#TR	Denotes deciduous tree tag number
100#EVG	Denotes evergreen tree tag number
NT	Denotes no tag was found for tree

N

NO SCALE

I hereby certify that this survey, plan, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Dated this 28th day of June, 2021

SUNDE LAND SURVEYING LLC.

By: _____

Arlee J. Carlson, P.L.S. Minn. Lic. No. 44900

Update campus	MAP	6/28/2021
Loras Hall elevator pit on sheet D–2 and E–2	NDN	03/11/2021
Revisions	By	Date
Originally dated 10/05/2021	BJK	

Drawing Title:
PARTIAL BOUNDARY, LOCATION, TOPOGRAPHIC and UTILITY SURVEY FOR:
UNIVERSITY OF ST. THOMAS

SUNDE LAND SURVEYING
9005 Bash Bloomington Freeway (35W) - Suite 118
Bloomington, Minnesota 55420-3435
(952–405–9440 (Fax 952–888–9038)
www.sunde.com

Project: 2007–088– 2021 By/Fb 11:42/17, 642/64
Township: 28 Range: 23 Section: 05
File: 2007088ALL2021.dwg

Date: 06/28/2021
Sheet: 1 of 20

PRELIMINARY NOT FOR CONSTRUCTION

RYAN A+E, INC.
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612-492-3000 fax
WWW.RYANCOMPANIES.COM

CRAWFORD ARCHITECTS, INC.
1801 McGee Street, Suite 200
Kansas City, MO 66210
816-421-2640 tel
816-421-2650 fax
WWW.CRAWFORDARCH.COM

OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

ISSUE RECORD		
ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
2	06/22/2023	50% SCHEMATIC DESIGN
3	09/01/2023	100% SCHEMATIC DESIGN
4	11/03/2023	UI CD SET - BULL 1
5	11/17/2023	50% DESIGN DEVELOPMENT
6	12/11/2023	ARENA BID PKG-3
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

SURVEY EXTENTS ADJUSTED TO CONFORM TO SHEET SIZES WITHIN UST ARENA PLAN SET

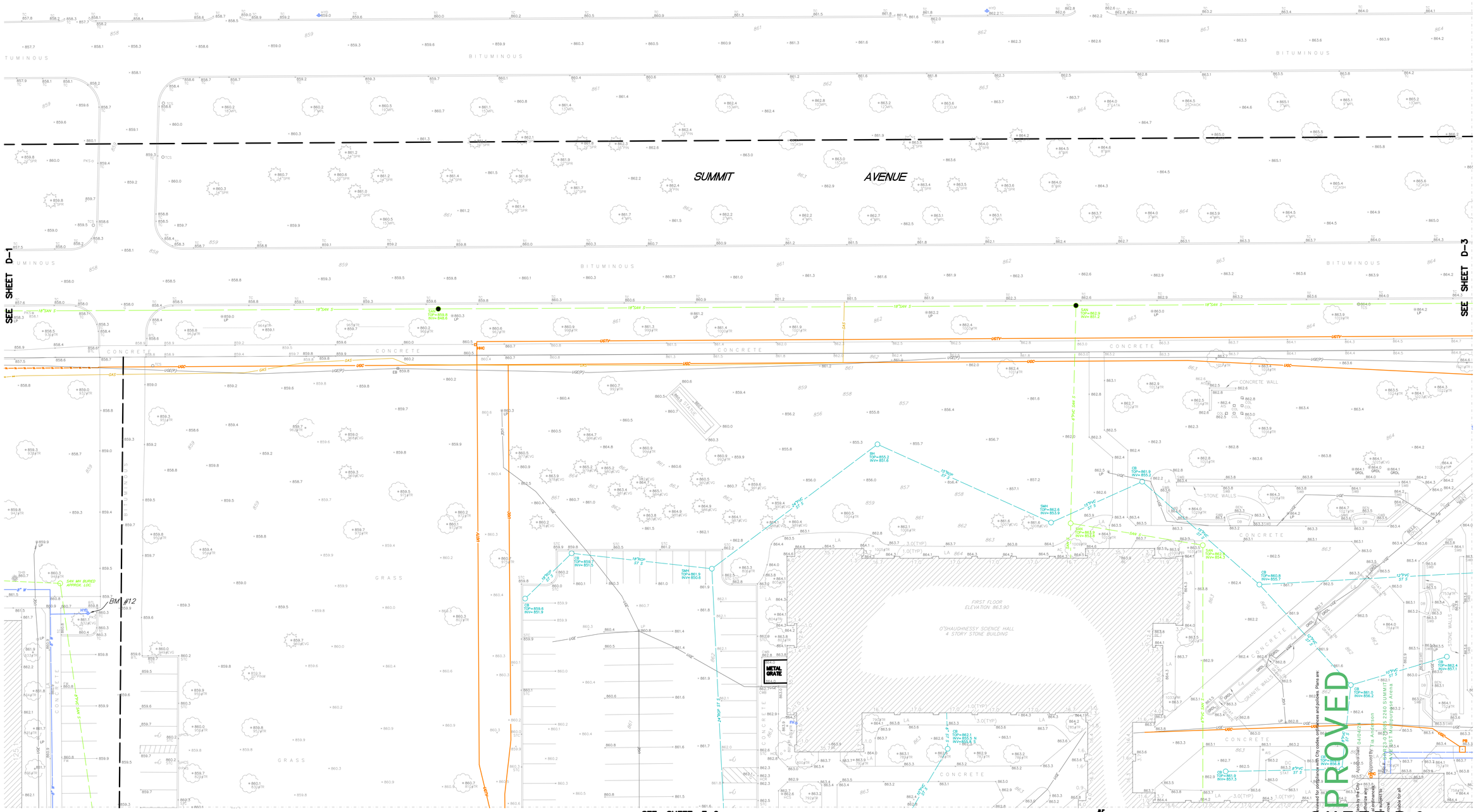
BUILDING PERMIT SET
03/01/2024

SURVEY - OVERALL

C100

MASTER SHEET
PRINT DATE: June xx, 2021

SEE SHEET C-2



Dated this 28th day of June, 2021

Certified by: _____
Arlee J. Carlson, P.L.S. Minn. Lic. No. 44900

SCALE 20 0 20 40 FEET

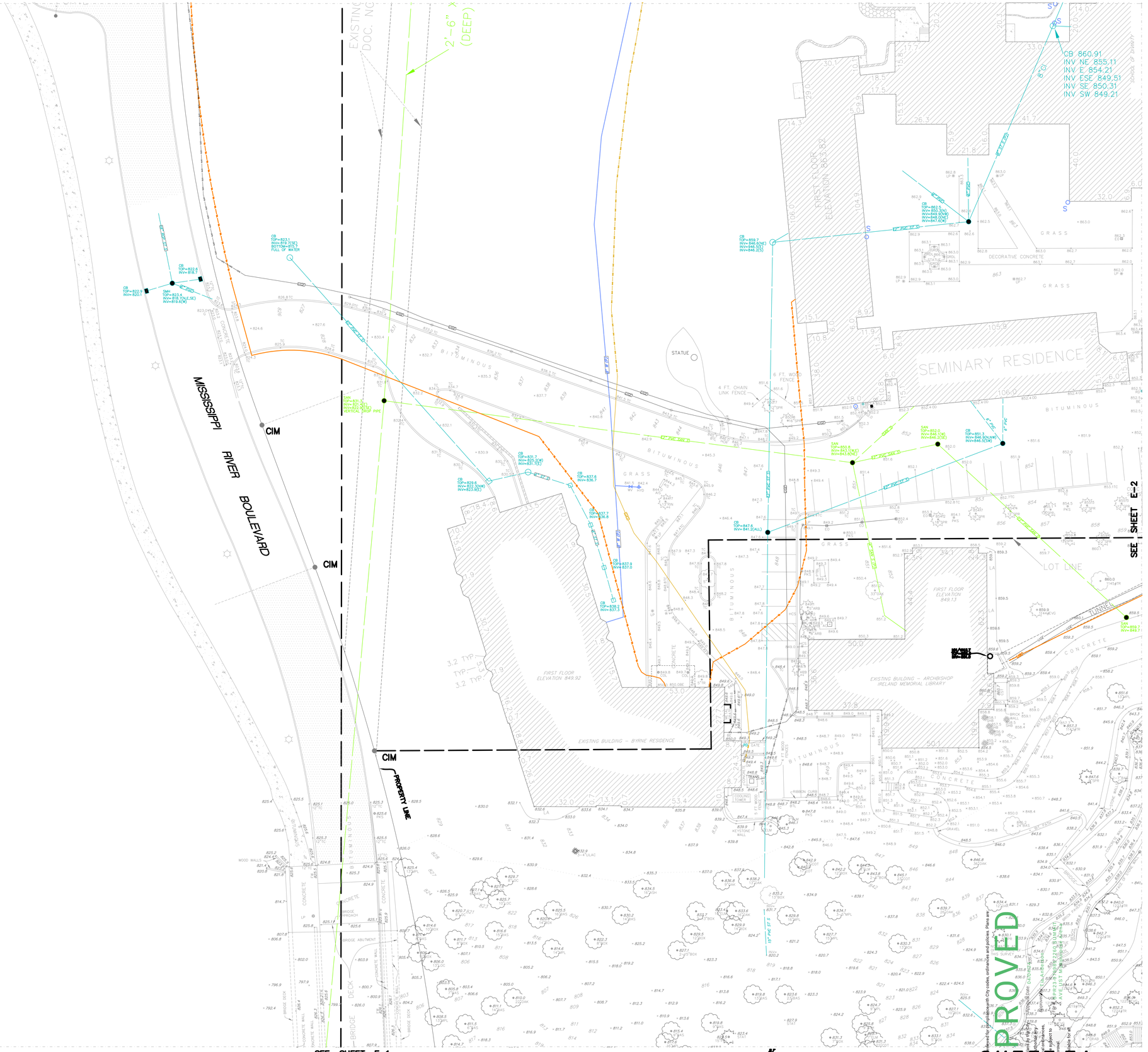
SURVEY EXTENTS ADJUSTED TO CONFORM TO SHEET SIZES WITHIN UST ARENA PLAN SET

N

APPROVED

Approval does not relieve the applicant of responsibility for compliance with City codes, ordinances and policies. Plans are approved for configuration and appearance only. Approval does not relieve the applicant of responsibility for compliance with City codes, ordinances and policies. Plans are approved for Tia protection only. Approval does not relieve the applicant of responsibility for all errors and omissions.

SEE SHEET D–1



Dated this 28th day of June, 2021

Certified by: _____
Arlee J. Carlson, P.L.S. Minn. Lic. No. 44900

UNIVERSITY OF ST. THOMAS

SCALE 20 0 20 40 FEET

SURVEY EXTENTS ADJUSTED TO CONFORM TO SHEET SIZES WITHIN UST ARENA PLAN SET

N

SUNDE LAND SURVEYING
www.sunde.com
File: 20070BBALL2021.dwg | Sheet: 14 of 20

APPROVED

SHEET E-1

RYAN A+E, INC.
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612-492-3000 fax
WWW.RYANCOMPANIES.COM

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OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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3	09/01/2023	100% SCHEMATIC DESIGN
4	11/03/2023	UI CD SET - BULL 1
5	11/17/2023	50% DESIGN DEVELOPMENT
6	12/11/2023	ARENA BID PKG-3
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SURVEY - E-1

C102

SEE SHEET D-2

SEE SHEET E-1

SEE SHEET E-3

SEE SHEET F-2

RYAN A+E, INC.
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7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SURVEY - E-2

C103

Dated this 28th day of June, 2021

Certified by: Arlee J. Carlson, P.L.S. Minn. Lic. No. 44900

UNIVERSITY OF ST. THOMAS

SCALE 20 0 20 40 FEET

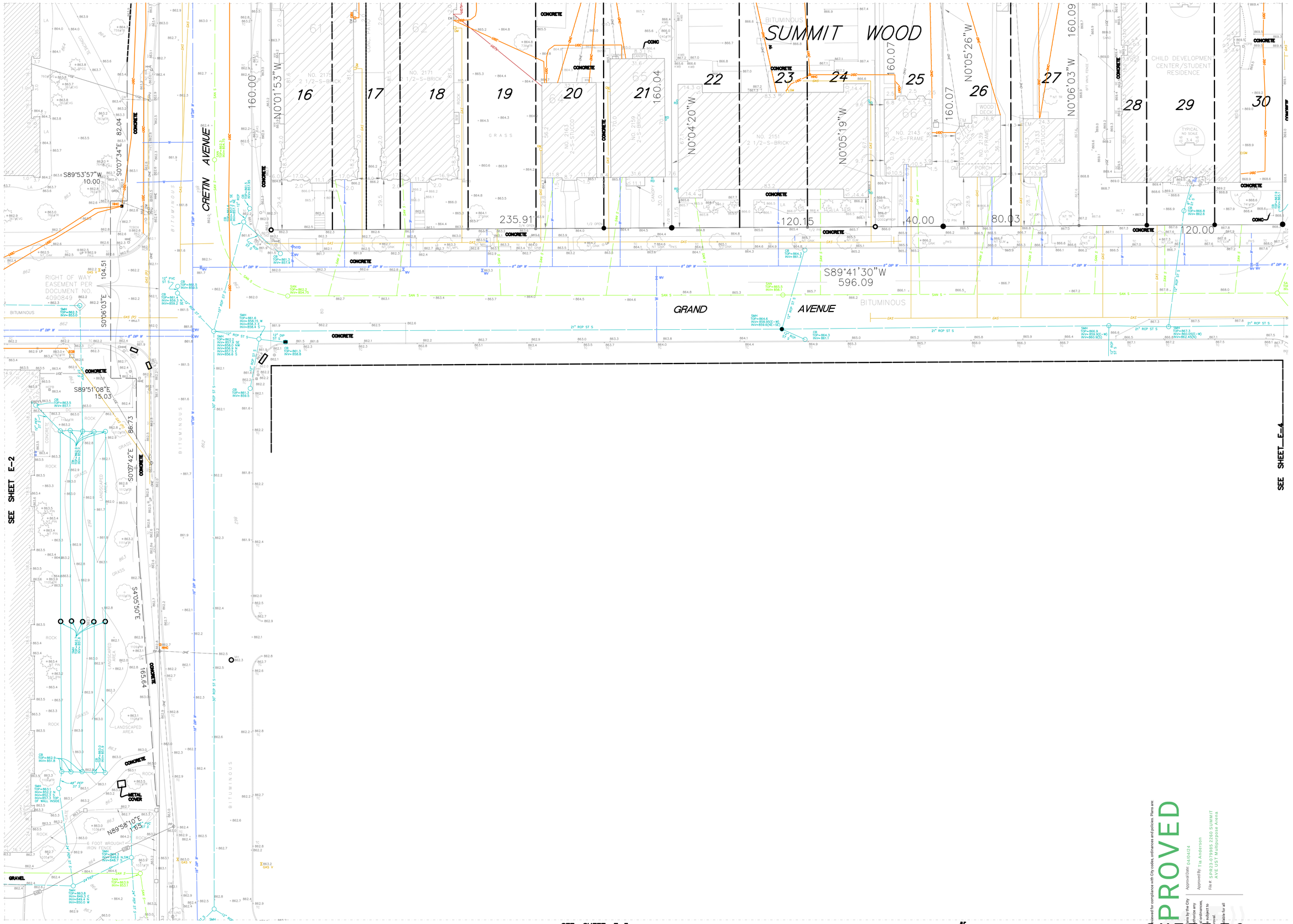
SURVEY EXTENTS ADJUSTED TO CONFORM TO SHEET SIZES WITHIN UST ARENA PLAN SET

APPROVED
SHEET E-2

SUNDE LAND SURVEYING
www.sunde.com
6464 East Bloomington Freeway (Old) - Suite 110
Minneapolis, Minnesota 55423-2435
952-888-3489 (Fax: 952-888-8588)

File: 2007088ALL2021.dwg Sheet 15 of 20

SEE SHEET D-3



SEE SHEET E-2

SEE SHEET E-4

Dated this 28th day of June, 2021

Certified by: _____
Arlee J. Carlson, P.L.S. Minn. Lic. No. 44900

SEE SHEET F-3

UNIVERSITY OF ST. THOMAS

SCALE 20 0 20 40 IN FEET

SURVEY EXTENTS ADJUSTED TO CONFORM TO SHEET SIZES WITHIN UST ARENA PLAN SET

N

APPROVED

Approval Date: 04/04/24

Approved By: Tia Anderson

File# SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

This plan has been reviewed for compliance with City codes, ordinances and policies. Plans are approved as noted. Approval does not authorize any violations of State laws or City codes, ordinances, rules or regulations. Applicant is responsible for all corrections and errors that may occur in the plans and specifications during construction. Approval does not relieve applicant of responsibility to comply with all applicable codes, ordinances and regulations. Applicant is responsible for all dimensions and conditions on the job site.

SHEET E-3

SUNDE LAND SURVEYING, LLC
6464 Town Square Boulevard (280) - Suite 110
Minneapolis, Minnesota 55427-3435
612-386-2400 (Fax: 612-386-2888)
www.sunde.com

File: 20070BALL2021.dwg | Sheet: 16 of 20

RYAN

RYAN A+E, INC.
533 South Third Street, Suite 100
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612-492-4000 tel
612-492-3000 fax
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CRAWFORD ARCHITECTS, INC.
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816-421-2640 tel
816-421-2650 fax
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OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

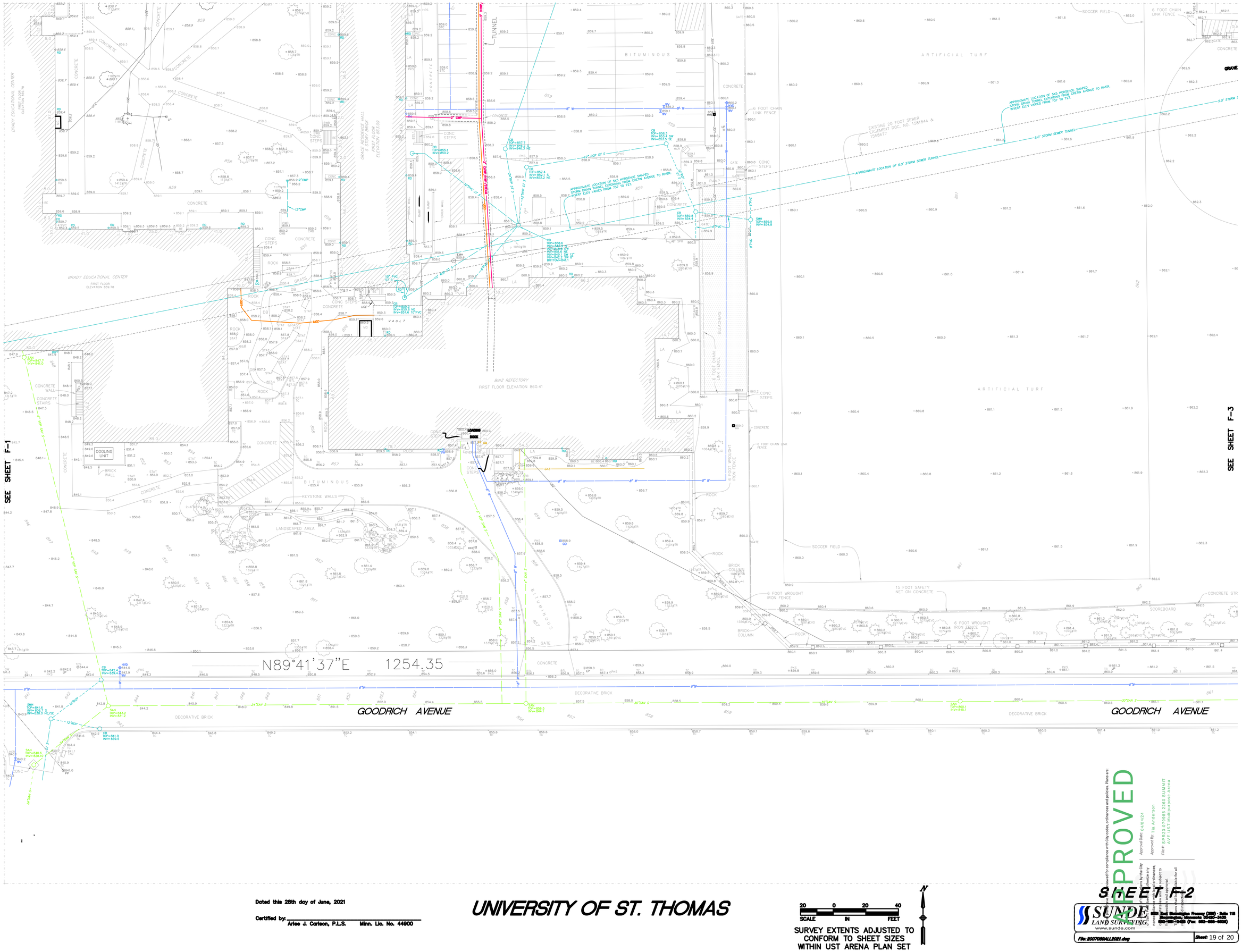
ISSUE RECORD		
ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
2	06/22/2023	50% SCHEMATIC DESIGN
3	09/01/2023	100% SCHEMATIC DESIGN
4	11/03/2023	UI CD SET - BULL 1
5	11/17/2023	50% DESIGN DEVELOPMENT
6	12/11/2023	ARENA BID PKG-3
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SURVEY - E-3

C104

SEE SHEET E-2



Dated this 28th day of June, 2021

Certified by: _____
Arlee J. Carlson, P.L.S. Minn. Lic. No. 44900

UNIVERSITY OF ST. THOMAS

20 0 20 40
SCALE IN FEET

SURVEY EXTENTS ADJUSTED TO CONFORM TO SHEET SIZES WITHIN UST ARENA PLAN SET

N

APPROVED

Approval Date: 04/04/24
Approved By: Tia Anderson
File #: SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

SHEET F-2

SUNDE LAND SURVEYING
www.sunde.com
File: 20070SBALL2021.dwg
Sheet: 19 of 20

RYAN A+E, INC.
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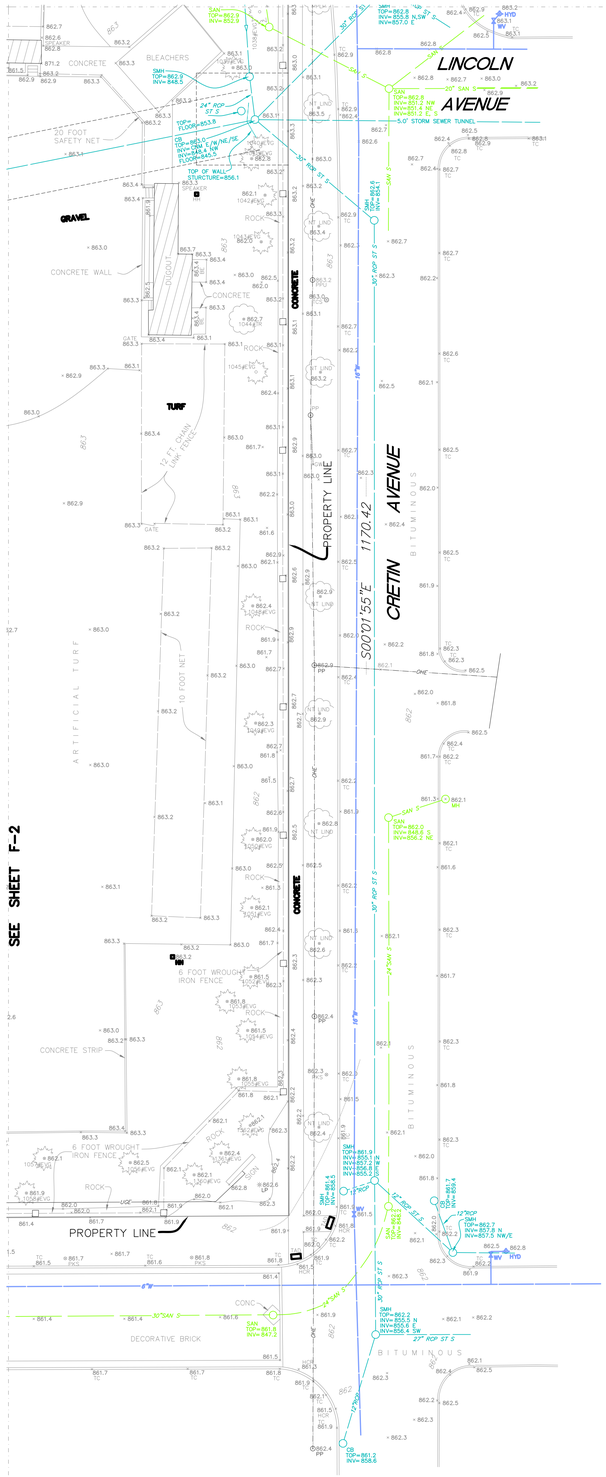
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SURVEY - F-2

C105

SEE SHEET E-3



Dated this 28th day of June, 2021

Certified by: _____
Arlee J. Carlson, P.L.S. Minn. Lic. No. 44900

UNIVERSITY OF ST. THOMAS

SCALE 20 0 20 40 IN FEET

SURVEY EXTENTS ADJUSTED TO CONFORM TO SHEET SIZES WITHIN UST ARENA PLAN SET

N

APPROVED
Approved by the City of Saint Paul for compliance with City codes, ordinances and policies. Plans are reviewed for compliance with City codes, ordinances and policies. Plans are approved by the City of Saint Paul. This approval does not authorize any construction in violation of any applicable codes, ordinances, regulations and policies. It is the responsibility of the applicant to construct in accordance with all applicable codes, ordinances, regulations and policies. The City of Saint Paul is not responsible for all errors and omissions contained in these plans.
Approved By: Tia Anderson
Approved Date: 04/04/24
File#: SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

SHEET F-3

SUNDE LAND SURVEYING
5500 Wayzata Boulevard, Suite 110
Minneapolis, Minnesota 55416
612-381-3453 (Fax: 612-381-3455)
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File: 20070BALL2021.dwg
Sheet: 20 of 20

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7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SURVEY - F-3

C106

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RYAN A+E, INC.
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STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO. 42340
DATE 11/03/2023

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DRAWN BY ZAT
CHECKED BY ATA
JOB NO. 701480
DATE 03.01.2024

ISSUE RECORD		
ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
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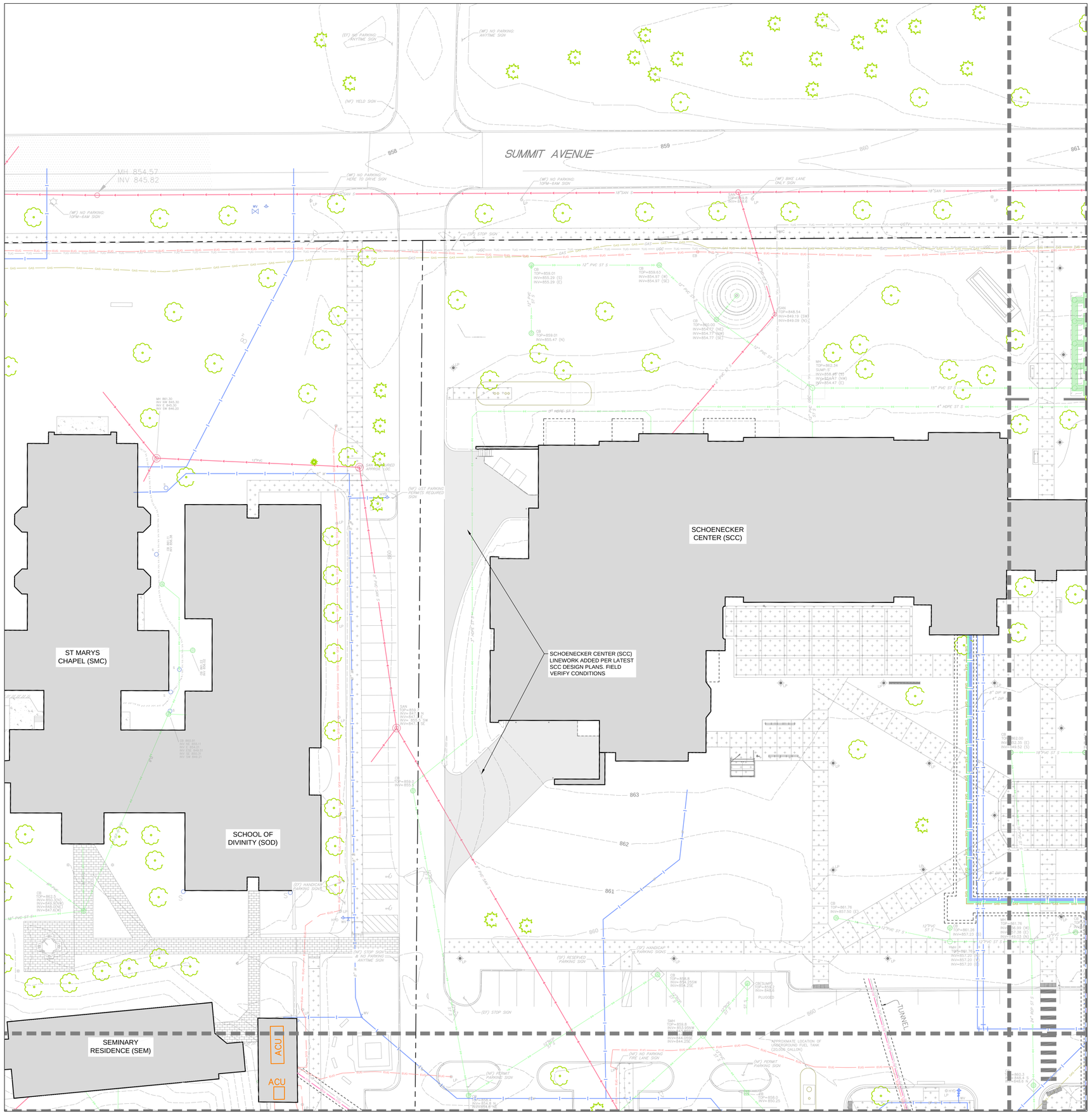
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EXISTING CONDITIONS PLAN - OVERALL

C120



SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING		EXISTING	
	PROPERTY BOUNDARY		STORM SEWER PIPE
	LOT/TRACT LINE		SOLID DRAINTILE
	CURB		PERFORATED DRAINTILE
	EASEMENT		STORM INLET
	BITUMINOUS		STORM MANHOLE
	HEAVY DUTY BITUMINOUS		STORM CLEANOUT
	CONCRETE PAVEMENT		SANITARY SEWER PIPE
	CONCRETE SIDEWALK		SANITARY SEWER MANHOLE
	BRICK PAVERS		SANITARY SEWER CLEANOUT
	CONCRETE PAVERS		WATER MAIN
	GRAVEL		HYDRANT
	EXISTING UTILITY TUNNEL		GATE VALVE
	CHAIN LINK FENCE		FIRE DEPARTMENT CONNECTION
	ORNAMENTAL FENCE		WELL
	TREE		FIRE SPRINKLER
	TRUNCATED DOME		IRRIGATION
			IRRIGATION CONTROL BOX
		GAS	NATURAL GAS
		EOH	ELECTRIC OVERHEAD
		EUG	ELECTRIC UNDERGROUND
		FOH	FIBER OPTIC OVERHEAD
		FUG	FIBER OPTIC UNDERGROUND
		TOH	TELEPHONE OVERHEAD
		TUG	TELEPHONE UNDERGROUND
		COH	CABLE OVERHEAD
		CUG	CABLE UNDERGROUND
		STM	STEAM
			CHILLED WATER
			ELECTRIC HANDHOLE
			ELECTRIC MANHOLE
			ELECTRIC METER
			TRANSFORMER
			GENERATOR
			LIGHT POLES
			POWER POLE
			GAS VALVE
			GAS METER
			FIBER OPTIC MANHOLE
			CABLE MANHOLE
			CABLE BOX
			TELEPHONE MANHOLE
			TELEPHONE BOX

APPROVED

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances. Final inspection and approval.

Approved By Tia Anderson
Approval Date 04/04/24

Plan # SP-20170815-4 SITE PLAN

These plans must be revised to reflect any requirements.

RYAN

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OWNER

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Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA
JOB NO.	**DATE**
701480	03.01.2024

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8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EXISTING CONDITIONS PLAN - NW

C121

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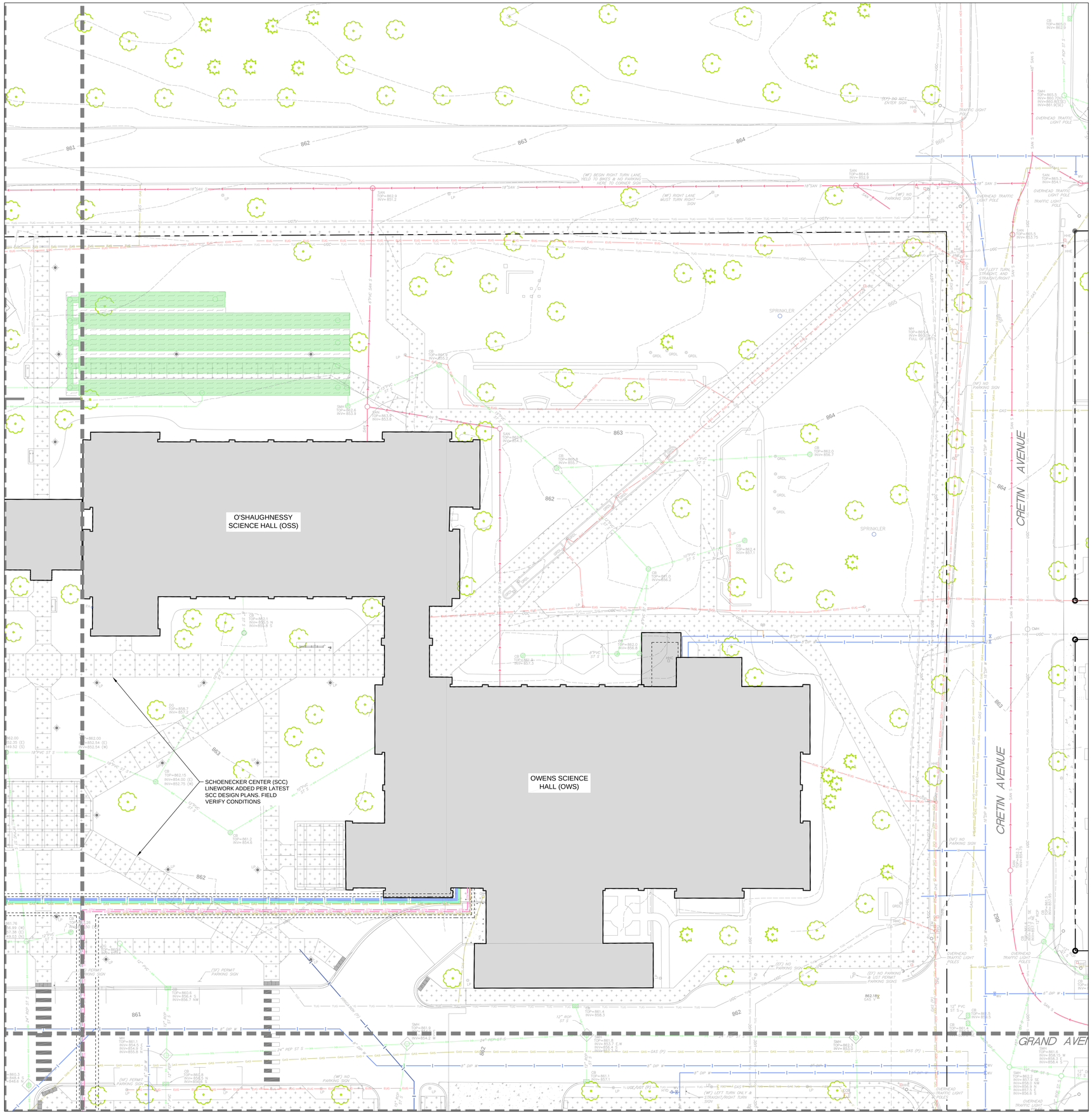

SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING		EXISTING	
	PROPERTY BOUNDARY		STORM SEWER PIPE
	LOT/TRACT LINE		SOLID DRAINTILE
	CURB		PERFORATED DRAINTILE
	EASEMENT		STORM INLET
	BITUMINOUS		STORM MANHOLE
	HEAVY DUTY BITUMINOUS		STORM CLEANOUT
	CONCRETE PAVEMENT		SANITARY SEWER PIPE
	CONCRETE SIDEWALK		SANITARY SEWER MANHOLE
	BRICK PAVERS		SANITARY SEWER CLEANOUT
	CONCRETE PAVERS		WATER MAIN
	GRAVEL		HYDRANT
	EXISTING UTILITY TUNNEL		GATE VALVE
	CHAIN LINK FENCE		FIRE DEPARTMENT CONNECTION
	ORNAMENTAL FENCE		WELL
	TREE		FIRE SPRINKLER
	TRUNCATED DOME		IRRIGATION
			IRRIGATION CONTROL BOX
		GAS	NATURAL GAS
		EOH	ELECTRIC OVERHEAD
		EUG	ELECTRIC UNDERGROUND
		FOH	FIBER OPTIC OVERHEAD
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			CHILLED WATER
			ELECTRIC HANDHOLE
			ELECTRIC MANHOLE
			ELECTRIC METER
			TRANSFORMER
			GENERATOR
			LIGHT POLES
			POWER POLE
			GAS VALVE
			GAS METER
			FIBER OPTIC MANHOLE
			CABLE MANHOLE
			CABLE BOX
			TELEPHONE MANHOLE
			TELEPHONE BOX

N

0 20 40
SCALE IN FEET

APPROVED
These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are
The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances. Final inspection and approval is required.
Approval Date: 04/04/24
Approved By: Tia Anderson
File #: 23-107-882 STREAMLINE
These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are subject to field inspection and approval.

RYAN

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OWNER

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STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

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2260 SUMMIT AVE ST.
PAUL, MN 55105

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JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA
JOB NO.	DATE
701480	03.01.2024

ISSUE RECORD		
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8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EXISTING CONDITIONS PLAN - NE

C122

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SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING		EXISTING	
	PROPERTY BOUNDARY		STORM SEWER PIPE
	LOT/TRACT LINE		SOLID DRAINTILE
	CURB		PERFORATED DRAINTILE
	EASEMENT		STORM INLET
	BITUMINOUS		STORM MANHOLE
	HEAVY DUTY BITUMINOUS		STORM CLEANOUT
	CONCRETE PAVEMENT		SANITARY SEWER PIPE
	CONCRETE SIDEWALK	S	SANITARY SEWER MANHOLE
	BRICK PAVERS		SANITARY SEWER CLEANOUT
	CONCRETE PAVERS		WATER MAIN
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			POWER POLE
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			CABLE MANHOLE
			CABLE BOX
			TELEPHONE MANHOLE
			TELEPHONE BOX

N

0 20 40
SCALE IN FEET

APPROVED

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The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, final inspection and approval may require

Approved By: Tia Anderson

Approval Date: 04/04/24

File # 23-012-340 SITE PLAN REVIEW

These plans are approved as noted. Before starting work, contact the City Inspector for a pre-construction meeting at 651-266-9090

RYAN A+E, INC.
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42340	11/03/2023

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DRAWN BY	CHECKED BY
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JOB NO.	**DATE**
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BUILDING PERMIT SET
03/01/2024

EXISTING CONDITIONS PLAN - SW

C123

FACILITIES & DESIGN CENTER (FDC)

EXISTING DUST COLLECTOR ADDED FROM SHOP DRAWINGS. FIELD VERIFY.

MCCARTHY GYMNASIUM (MCG)

ANDERSON PARKING FACILITY (APF)

SOUTH ATHLETIC FIELDS (SAF)

EXISTING IRRIGATION CONDUITS PRESENT BENEATH PROPOSED ACCESS DRIVE OFF CRETIN AVE. SEE IRRIGATION PLANS FOR DETAILS ON NEW CONDUITS AND NOTES ON REROUTED IRRIGATION ZONES

EXISTING GAS LINE LOCATION IS ESTIMATED BASED ON VALVE LOCATIONS. FIELD VERIFY AND CONFIRM WITH XCEL ENERGY.

EXISTING WATERMAIN LOCATION IS ESTIMATED BASED ON VALVE LOCATIONS. FIELD VERIFY.

EXISTING ELECTRICAL MANHOLE LOCATION IS ESTIMATED BASED ON FIELD INVESTIGATION. FIELD VERIFY.

EXISTING ELECTRICAL LINE BASED ON COMMUNICATION WITH UST AND HAS NOT BEEN SURVEYED. FIELD VERIFY LOCATION.

LOCATION OF SAF STORMWATER TREATMENT SYSTEM ESTIMATED BASED ON CRWD PERMIT REPORT DRAWING.

SEE INSET 1 ON SHEET C104 FOR GOODRICH AVE PEDESTRIAN BUMPOUTS

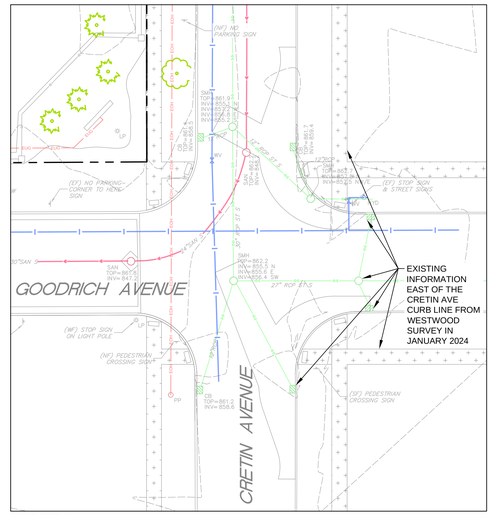
GRAND AVE

CRETIN AVENUE

LINCOLN AVENUE

SHEET KEY:

NW	NE
SW	SE



INSET 1

LEGEND:

EXISTING		EXISTING	
	PROPERTY BOUNDARY		STORM SEWER PIPE
	LOT/TRACT LINE		SOLID DRAINTILE
	CURB		PERFORATED DRAINTILE
	EASEMENT		STORM INLET
	BITUMINOUS		STORM MANHOLE
	HEAVY DUTY BITUMINOUS		STORM CLEANOUT
	CONCRETE PAVEMENT		SANITARY SEWER PIPE
	CONCRETE SIDEWALK		SANITARY SEWER MANHOLE
	BRICK PAVERS		SANITARY SEWER CLEANOUT
	CONCRETE PAVERS		WATER MAIN
	GRAVEL		HYDRANT
	EXISTING UTILITY TUNNEL		GATE VALVE
	CHAIN LINK FENCE		FIRE DEPARTMENT CONNECTION
	ORNAMENTAL FENCE		WELL
	TREE		FIRE SPRINKLER
	TRUNCATED DOME		IRRIGATION
			IRRIGATION CONTROL BOX
		GAS	NATURAL GAS
		EOH	ELECTRIC OVERHEAD
		EUG	ELECTRIC UNDERGROUND
		FOH	FIBER OPTIC OVERHEAD
		FUG	FIBER OPTIC UNDERGROUND
		TOH	TELEPHONE OVERHEAD
		TUG	TELEPHONE UNDERGROUND
		COH	CABLE OVERHEAD
			CABLE UNDERGROUND
			STEAM
			CHILLED WATER
			ELECTRIC HANDHOLE
			ELECTRIC MANHOLE
			ELECTRIC METER
			TRANSFORMER
			GENERATOR
			LIGHT POLES
			POWER POLE
			GAS VALVE
			GAS METER
			FIBER OPTIC MANHOLE
			CABLE MANHOLE
			CABLE BOX
			TELEPHONE MANHOLE
			TELEPHONE BOX

SCALE 0 20 40 IN FEET

APPROVED

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are approved as noted.

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, nonconformance with approved plans, or violation of any applicable state or federal law.

Approved By: Tia Anderson

Approval Date: 04/04/24

Plan # SPR-23-078 Permit # 2023-00MMT

RYAN A+E, INC.
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OWNER

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Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA
JOB NO.	DATE
701480	03.01.2024

ISSUE RECORD		
ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
2	06/22/2023	50% SCHEMATIC DESIGN
3	09/01/2023	100% SCHEMATIC DESIGN
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7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EXISTING CONDITIONS PLAN - SE

C124

C:\Users\zthor\DCACCDocs\Ryan Companies\701480 UST Athletics Hockey Arena\Project Files\Ryan Civil\02 Sheet Files\701480 - C100 EXISTING CONDITIONS PLAN.dwg

LEGEND:

REMOVAL

- CURB
- BITUMINOUS
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- SAWCUT
- ABANDON IN PLACE
- UTILITY
- BULKHEAD
- EACH
- CONSTRUCTION LIMITS

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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

REMOVALS PLAN - OVERALL - PH 1

C140A

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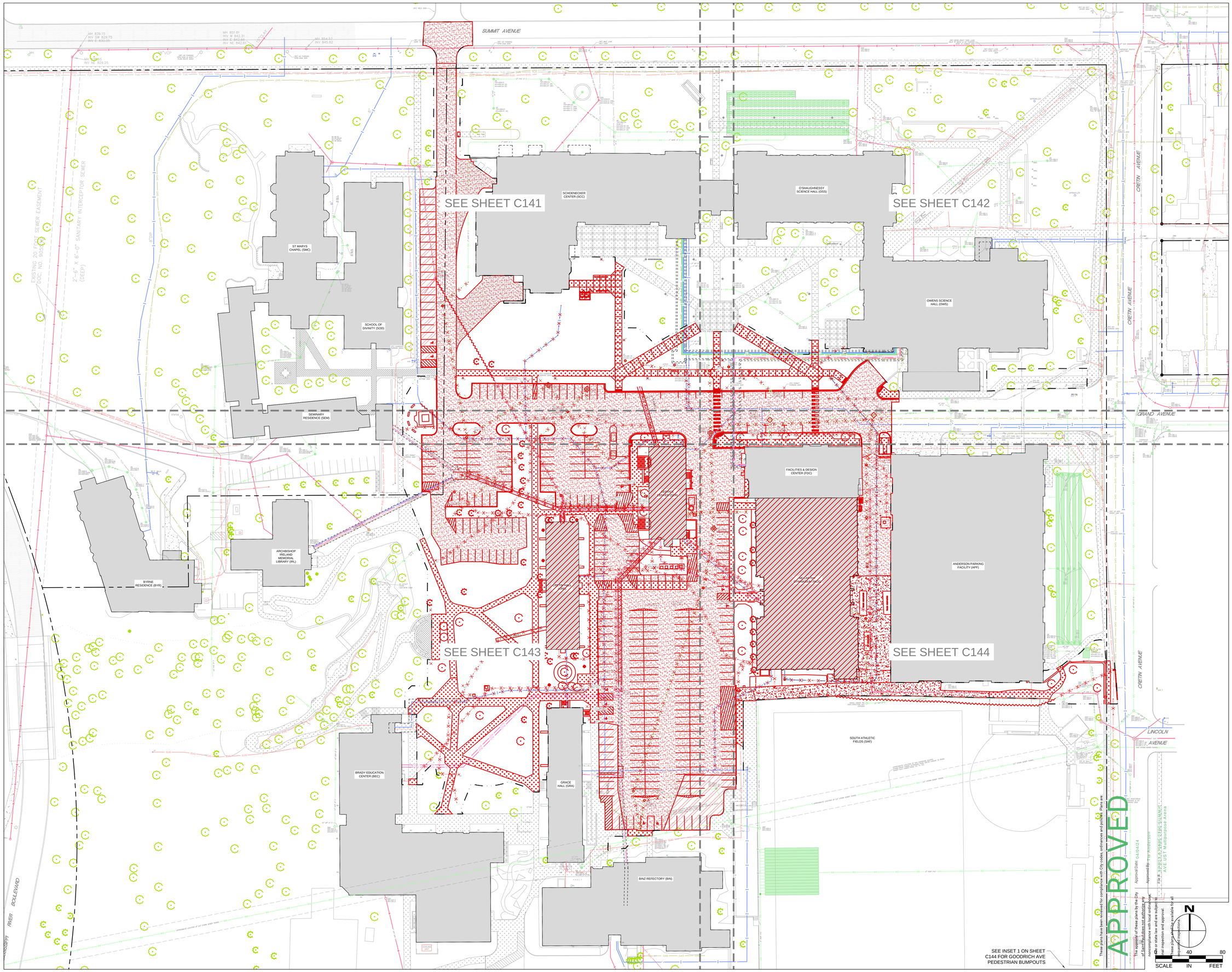

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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

REMOVALS PLAN - OVERALL - PH 2

C140B

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are approved by the Inspection Division.

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances or the omission of any required permit or approval.

These plans shall be available for all required inspections.

Approved By: Tim Anderson
Approved Date: 04/04/24

File #: SPRES-0498-3280 SUMMIT AVE UST Multipurpose Arena

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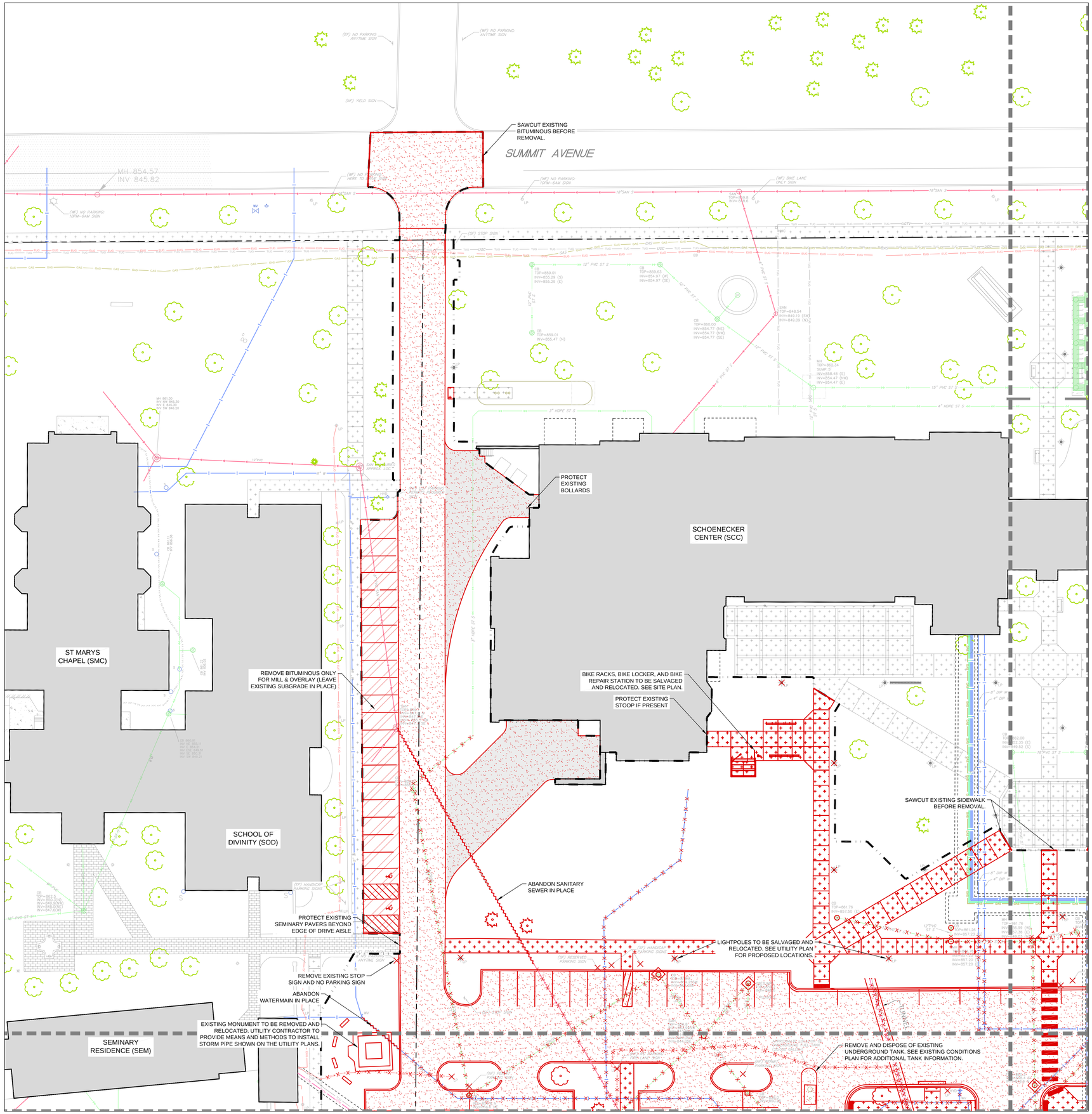

SHEET KEY:

NW	NE
SW	SE

LEGEND:

REMOVAL

- CURB
- BITUMINOUS
- BITUMINOUS MILL & OVERLAY
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- GRAVEL
- BUILDING
- ARTIFICIAL TURF
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- SAWCUT
- ABANDON IN PLACE
- UTILITY
- BULKHEAD
- EACH
- CONSTRUCTION LIMITS

N

0 20 40

SCALE IN FEET

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are:

APPROVED

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, codes or laws enacted prior to Final inspection and approval.

These plans shall be available for all requested inspections.

Approval Date: 04/04/24

Approved By: Tia Anderson

File #: SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

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BUILDING PERMIT SET
03/01/2024

REMOVALS PLAN - NW

C141

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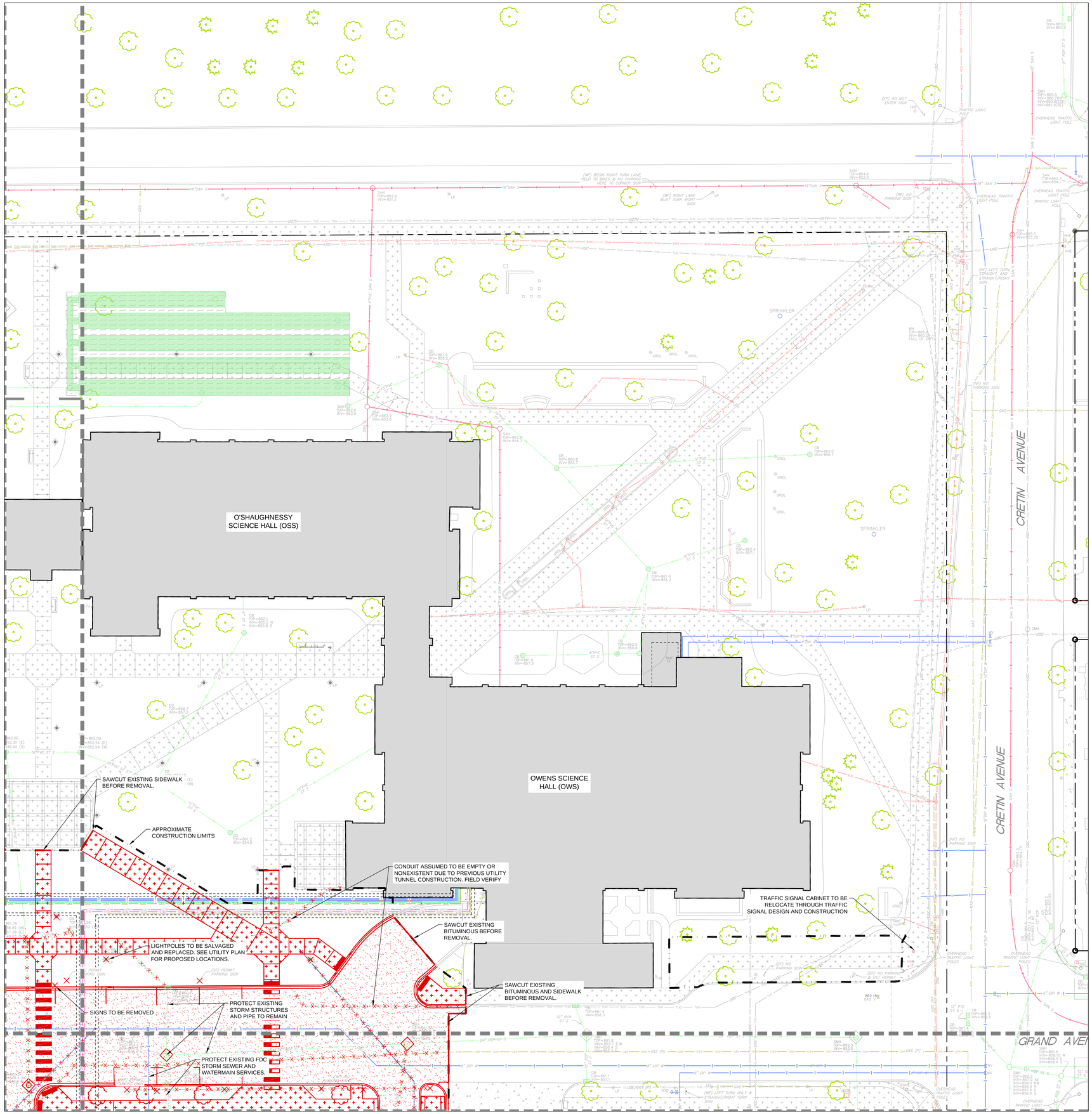

SHEET KEY:

NW	NE
SW	SE

LEGEND:

REMOVAL

- CURB
- BITUMINOUS
- BITUMINOUS MILL & OVERLAY
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- GRAVEL
- BUILDING
- ARTIFICIAL TURF
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- SAWCUT
- ABANDON IN PLACE
- UTILITY
- BULKHEAD
- EACH
- CONSTRUCTION LIMITS

N

0 20 40
SCALE IN FEET

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are:

APPROVED

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, code or rules not specifically noted in final inspection and approval.

These plans shall be available for all requested inspections.

Approved By: Tia Anderson
Approval Date: 04/04/24
File #: SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

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JARED B. OLSON

REGISTRATION NO.	DATE
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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

REMOVALS PLAN - NE

C142

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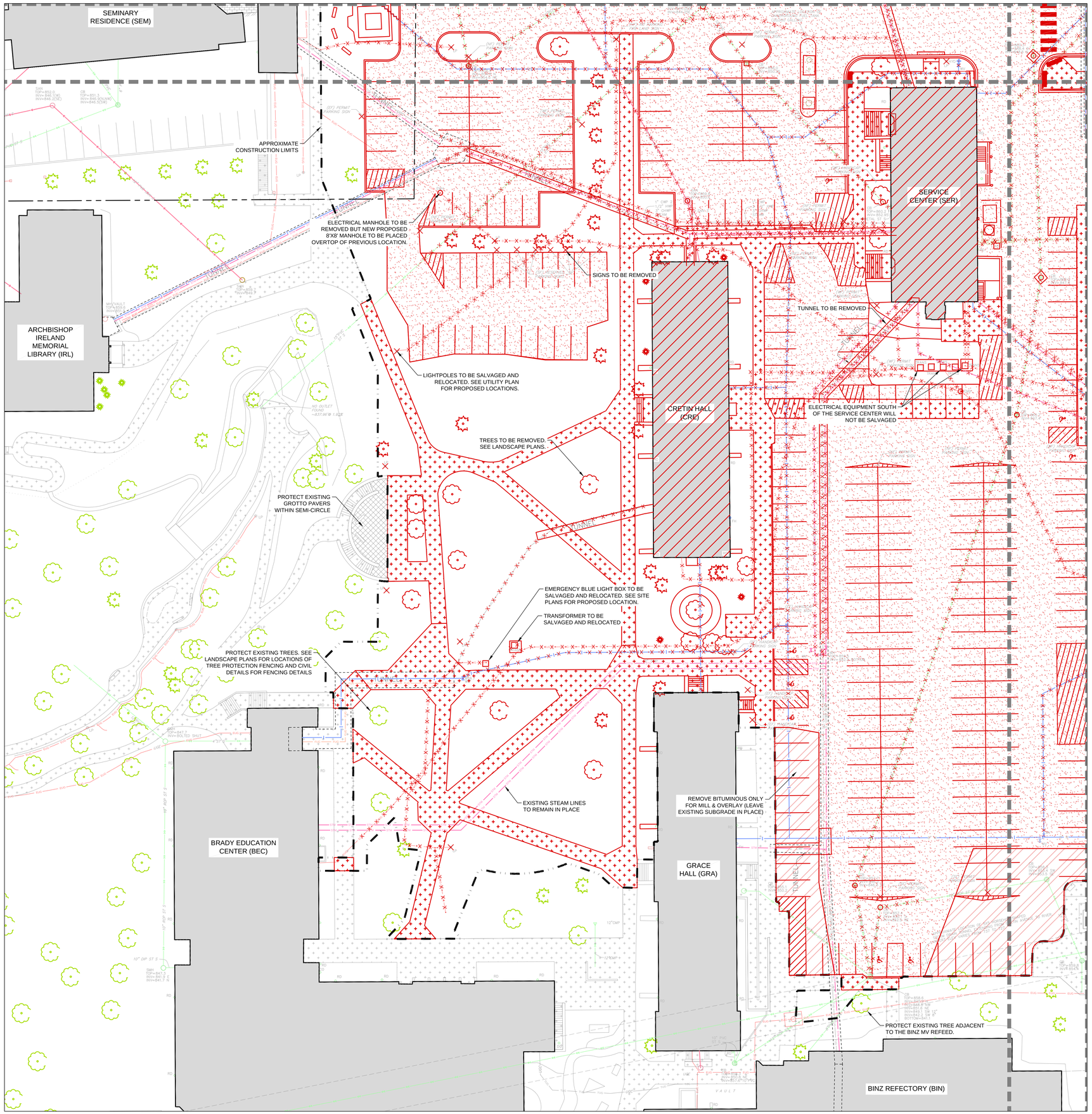

SHEET KEY:

NW	NE
SW	SE

LEGEND:

REMOVAL

- CURB
- BITUMINOUS
- BITUMINOUS MILL & OVERLAY
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- GRAVEL
- BUILDING
- ARTIFICIAL TURF
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- SAWCUT
- ABANDON IN PLACE
- UTILITY
- BULKHEAD
- EACH
- CONSTRUCTION LIMITS

N

0 20 40
SCALE IN FEET

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are:

APPROVED

Approval Date: 04/04/24
Approved By: Tia Anderson
File # SPR23-079988 2260 SUMMIT AVE UST Multipurpose Arena

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These plans shall be available for all requested inspections.

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STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

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PAUL, MN 55105

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JARED B. OLSON

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7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

REMOVALS PLAN - SW

C143

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PROTECT EXISTING FDC STORM SEWER AND WATERMAIN SERVICES.

EXISTING STOOPS TO REMAIN

FACILITIES & DESIGN CENTER (FDC)

PROTECT EXISTING FDC ELECTRICAL EQUIPMENT

MCCARTHY GYM TO BE DEMOLISHED. NORTHERN WALL OF MCCARTHY GYM TO REMAIN AS SOUTHERN WALL OF FDC.

PROTECT EXISTING FDC SANITARY SEWER SERVICE

DUST COLLECTOR TO BE SALVAGED AND REPLACED. SEE UTILITY PLAN FOR PROPOSED LOCATION

TREES TO BE REMOVED SEE LANDSCAPE PLANS.

MCCARTHY GYMNASIUM (MCG)

ANDERSON PARKING FACILITY (APF)

ABOVE GROUND ALLEY EQUIPMENT TO BE REMOVED AND RELOCATED IN PHASE 1.

EMERGENCY BLUE LIGHT BOX TO BE SALVAGED AND RELOCATED. SEE SITE PLANS FOR PROPOSED LOCATION

DEMO BRICK PIERS. REMOVE AND SALVAGE ORNAMENTAL BLACK FENCE.

ADJUST RIM ELEVATIONS FOR MANHOLES WITHIN CRETIN DRIVE ACCESS TO TIME OUT WITH PROPOSED GRADES. SEE GRADING AND UTILITY PLANS FOR DETAILS.

REMOVE AND REPLACE UTILITY POLE JUST NORTH OF CURRENT LOCATION.

GUY WIRE TO BE REPLACED WITH SIDEWALK GUY TO THE WEST.

CHAIN LINK FENCE AND NETTING TO BE PROTECTED.

SCOREBOARD AND FLAGPOLE TO BE SALVAGED AND RELOCATED.

EXISTING IRRIGATION CONDUITS TO BE DEMO'ED IN PHASE 1. SEE IRRIGATION PLANS FOR DETAILS.

SOUTH ATHLETIC FIELDS (SAF)

REMOVE BITUMINOUS ONLY FOR MILL & OVERLAY (LEAVE EXISTING SUBGRADE IN PLACE)

SEE INSET 1 ON SHEET C144 FOR GOODRICH AVE PEDESTRIAN BUMPOUTS

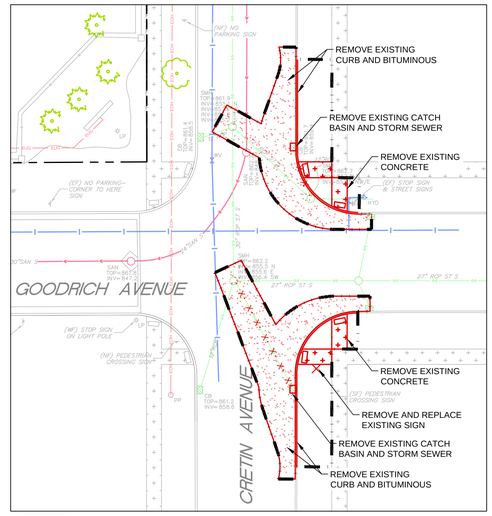
GRAND AVE

CRETIN AVENUE

LINCOLN AVENUE

SHEET KEY:

NW	NE
SW	SE



INSET 1

LEGEND:

REMOVAL

- CURB
- BITUMINOUS
- BITUMINOUS MILL & OVERLAY
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK
- GRAVEL
- BUILDING
- ARTIFICIAL TURF
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- EACH
- CONSTRUCTION LIMITS

N

0 20 40
SCALE IN FEET

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APPROVED

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Approval Date: 04/04/24

Approved By: Tia Anderson

File # SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

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REGISTRATION NO.	DATE
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BUILDING PERMIT SET
03/01/2024

REMOVALS PLAN - SE

C144

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TOTAL ESTIMATED QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SILT FENCE	LF	2,300
ROCK CONSTRUCTION ENTRANCE	SF	1,750
INLET PROTECTION	EA	23
EROSION CONTROL BLANKET	SY	TBD
BIOROLL	LF	TBD
TREE PROTECTION FENCE	LF	TBD

LEGEND:

EXISTING	PROPOSED	
830	830	MAJOR CONTOUR
831	831	MINOR CONTOUR
		DRAINAGE SWALE
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		FLARED END SECTION
		STORM CLEANOUT
		STORM FITTINGS
1.00%	1.00%	ONE-POINT PERCENT GRADE
1.00%	1.00%	TWO-POINT PERCENT GRADE
3:1	3:1	SLOPE RATIO
		CONSTRUCTION LIMITS
		SILT FENCE
		ROCK CONSTRUCTION ENTRANCE
		INLET PROTECTION
		EROSION CONTROL BLANKET

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8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EROSION CONTROL PLAN - OVERALL - PH 1

C200A

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816-421-2650 fax
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OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA
JOB NO.	**DATE**
701480	03.01.2024

ISSUE RECORD		
ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
2	06/22/2023	50% SCHEMATIC DESIGN
3	09/01/2023	100% SCHEMATIC DESIGN
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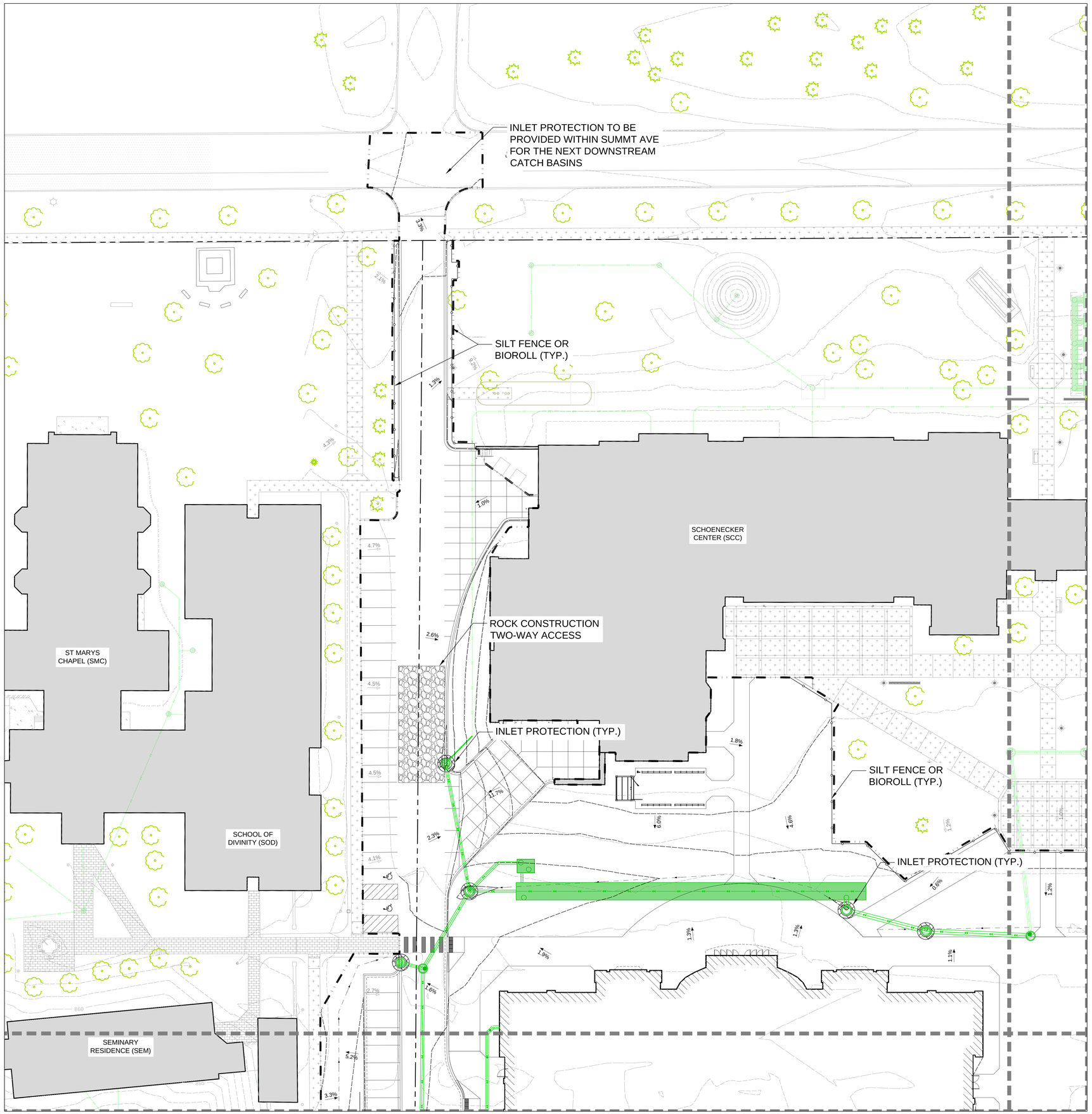
5	11/17/2023	50% DESIGN DEVELOPMENT
6	12/11/2023	ARENA BID PKG-3
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EROSION CONTROL PLAN - OVERALL - PH 2

C200B



SHEET KEY:

NW	NE
SW	SE

TOTAL ESTIMATED QUANTITIES

ITEM DESCRIPTION	UNIT	QUANTITY
SILT FENCE	LF	2,550
ROCK CONSTRUCTION ENTRANCE	SF	5,300
INLET PROTECTION	EA	39
EROSION CONTROL BLANKET	SY	TBD
BIOROLL	LF	TBD
TREE PROTECTION FENCE	LF	TBD

LEGEND:

EXISTING / PROPOSED

- MAJOR CONTOUR (830)
- MINOR CONTOUR (831)
- DRAINAGE SWALE
- STORM SEWER PIPE
- SOLID DRAINTILE
- PERFORATED DRAINTILE
- STORM INLET
- STORM MANHOLE
- FLARED END SECTION
- STORM CLEANOUT
- STORM FITTINGS
- ONE-POINT PERCENT GRADE (1.00%)
- TWO-POINT PERCENT GRADE (1.00%)
- SLOPE RATIO (3:1)
- CONSTRUCTION LIMITS
- SILT FENCE
- ROCK CONSTRUCTION ENTRANCE
- INLET PROTECTION
- EROSION CONTROL BLANKET

N

0 20 40
SCALE IN FEET

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are:

APPROVED

Approval Date: 04/04/24
Approved By: Tim Anderson
File #: SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, code or rules not specifically noted in final inspection and approval.

These plans shall be available for all requested inspections.

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JARED B. OLSON

REGISTRATION NO.	DATE
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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EROSION CONTROL PLAN - NW

C201

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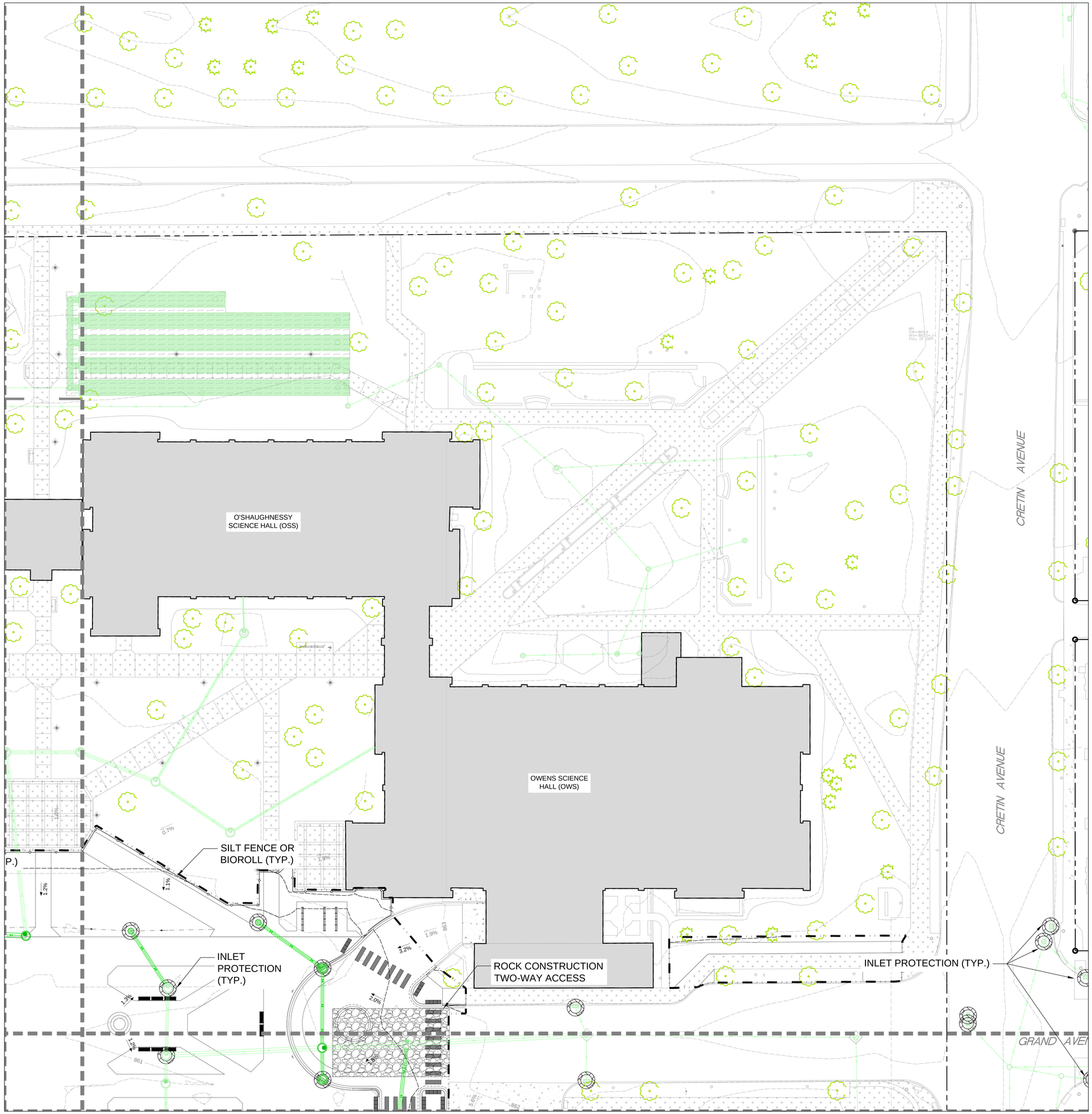

SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING	PROPOSED	
830	830	MAJOR CONTOUR
831	831	MINOR CONTOUR
		DRAINAGE SWALE
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		FLARED END SECTION
		STORM CLEANOUT
		STORM FITTINGS
1.00%	1.00%	ONE-POINT PERCENT GRADE
1.00%	1.00%	TWO-POINT PERCENT GRADE
3:1	3:1	SLOPE RATIO
		CONSTRUCTION LIMITS
		SILT FENCE
		ROCK CONSTRUCTION ENTRANCE
		INLET PROTECTION
		EROSION CONTROL BLANKET

N

0 20 40
SCALE IN FEET

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are:

APPROVED

Approval Date: 04/04/24
Approved By: Tia Anderson
File #: SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, codes or laws not noted prior to final inspection and approval.

These plans shall be available for all requested inspections.

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JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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JOB NO.	**DATE**
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7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EROSION CONTROL PLAN - NE

C202

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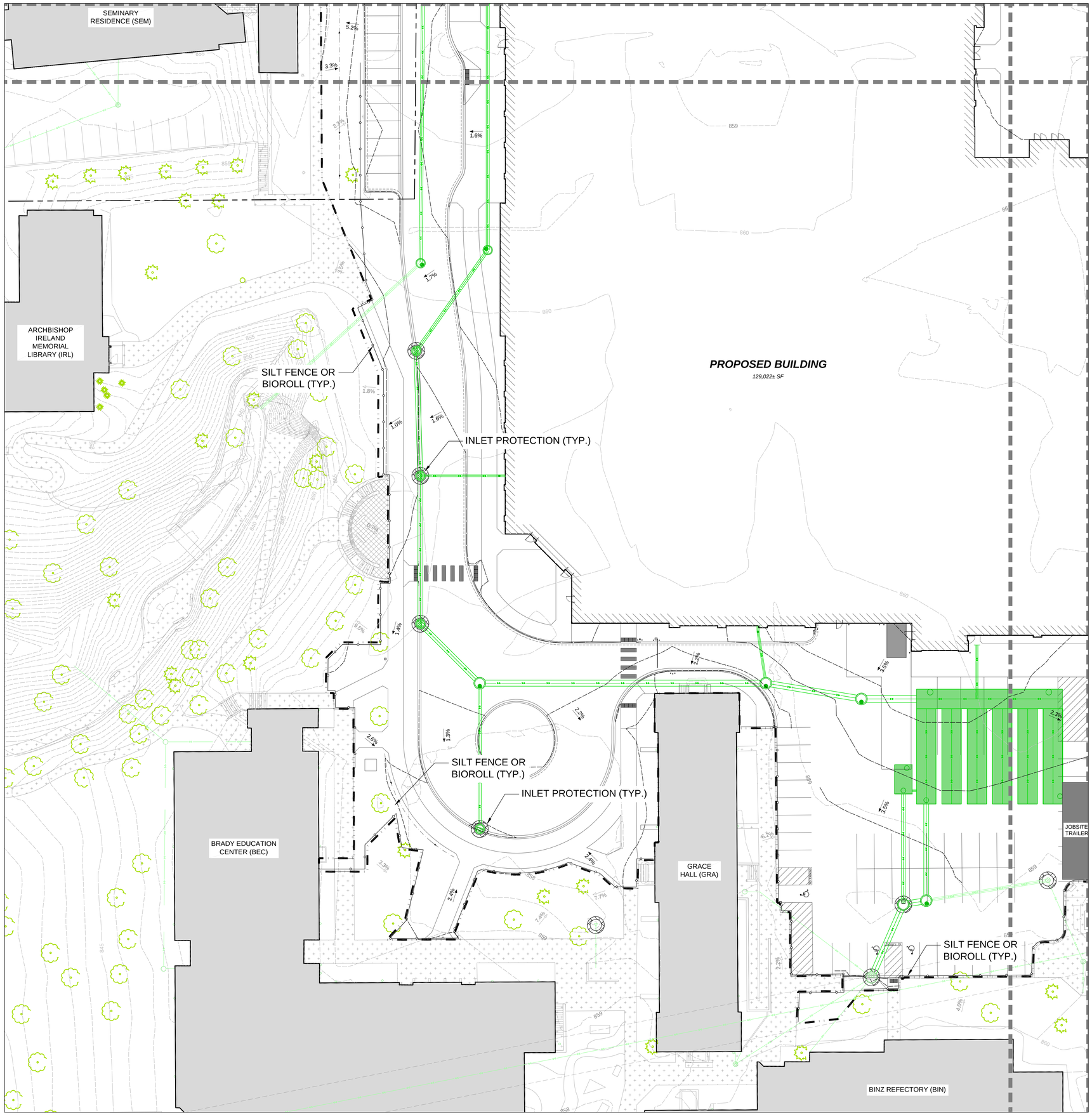

SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING	PROPOSED	
		MAJOR CONTOUR
		MINOR CONTOUR
		DRAINAGE SWALE
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		FLARED END SECTION
		STORM CLEANOUT
		STORM FITTINGS
1.00%	1.00%	ONE-POINT PERCENT GRADE
1.00%	1.00%	TWO-POINT PERCENT GRADE
3:1	3:1	SLOPE RATIO
		CONSTRUCTION LIMITS
		SILT FENCE
		ROCK CONSTRUCTION ENTRANCE
		INLET PROTECTION
		EROSION CONTROL BLANKET

N

0 20 40

SCALE IN FEET

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are:

APPROVED

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, nor does it waive any requirements for final inspection and approval.

These plans shall be available for all requested inspections.

Approval Date: 04/04/24

Approved By: Tia Anderson

File #: SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

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701480	03.01.2024

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7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EROSION CONTROL PLAN - SW

C203

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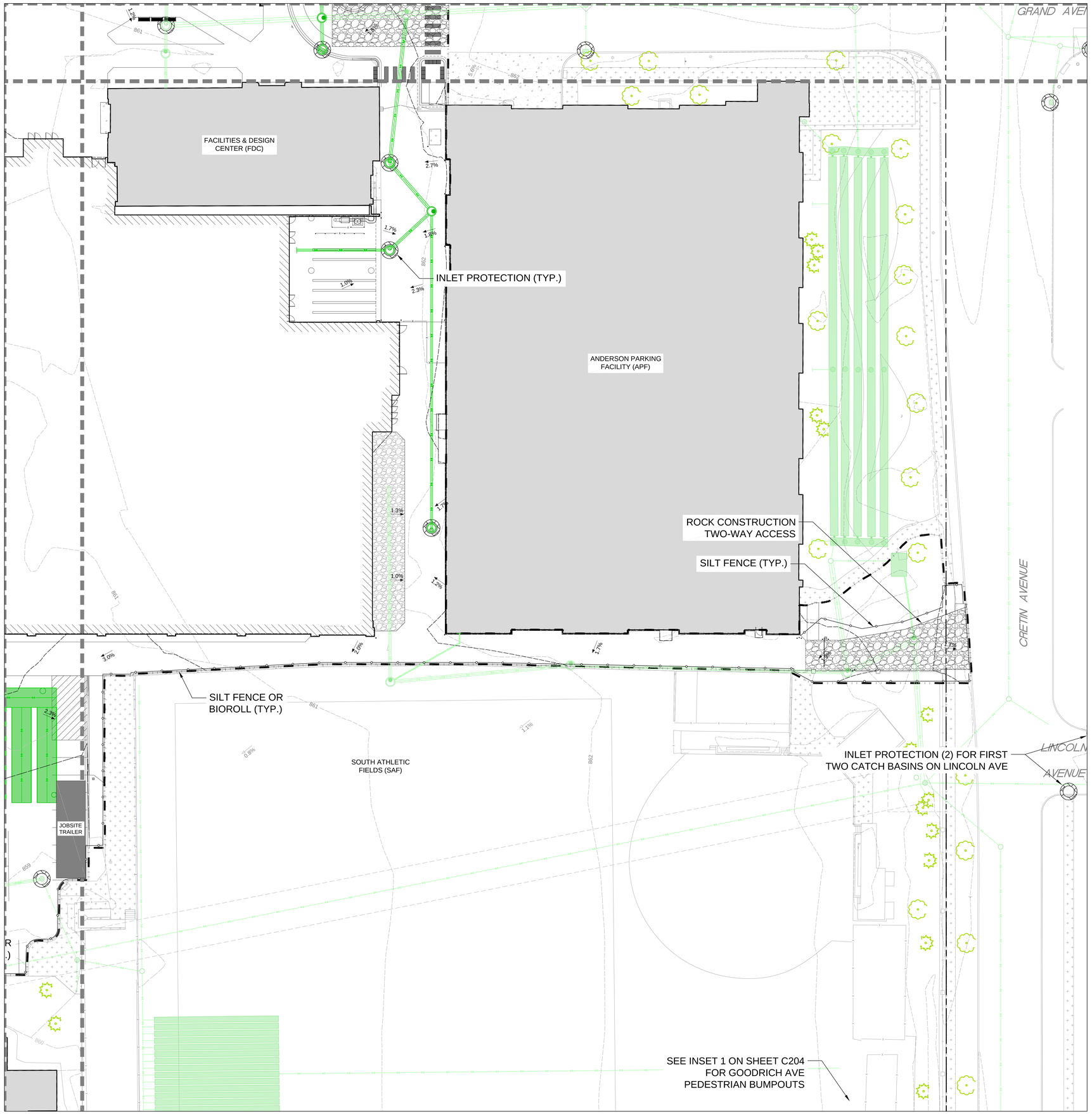
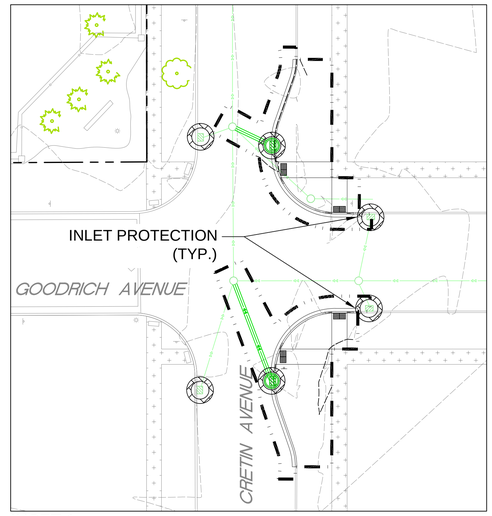


SHEET KEY:

NW	NE
SW	SE



INSET 1

LEGEND:

EXISTING	PROPOSED	
830	830	MAJOR CONTOUR
831	831	MINOR CONTOUR
		DRAINAGE SWALE
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		FLARED END SECTION
		STORM CLEANOUT
		STORM FITTINGS
1.00%	1.00%	ONE-POINT PERCENT GRADE
1.00%	1.00%	TWO-POINT PERCENT GRADE
3:1	3:1	SLOPE RATIO
		CONSTRUCTION LIMITS
		SILT FENCE
		ROCK CONSTRUCTION ENTRANCE
		INLET PROTECTION
		EROSION CONTROL BLANKET

N

0 20 40

SCALE IN FEET

APPROVED

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The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, codes or laws and is subject to final inspection and approval.

These plans shall be available for all requested inspections.

Approved By: Tia Anderson

Approved Date: 04/04/24

File #: SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

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42340	11/03/2023

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8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

EROSION CONTROL PLAN - SE

C204

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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SITE PLAN - OVERALL - PH 1

C300A

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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SITE PLAN - OVERALL - PH 2

C300B

SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING	PROPOSED	
		PROPERTY BOUNDARY
		LOT/TRACT LINE
		CURB
	TIP OUT	EASEMENT
		BITUMINOUS
		HEAVY DUTY BITUMINOUS (DETAIL 9/C600)
		BITUMINOUS MILL & OVERLAY (DETAIL 11/C600)
		CONCRETE PAVEMENT - BROOM FINISH (DETAIL 12/C600)
		CONCRETE PAVEMENT - PICTURE FRAMED SHINED FINISH (DETAIL 12/C600)
		CONCRETE SIDEWALK - PICTURE FRAMED SHINED FINISH (DETAIL 13/C600)
		SEMINARY PAVERS
		GRAVEL
		CHAIN LINK FENCE
		ORNAMENTAL FENCE
		GUARD RAIL
		DRAINAGE SWALE
		TREE
		TRUNCATED DOMES
		CONSTRUCTION LIMITS
		BOLLARDS
		LIGHT POLES

N

0 20 40
SCALE IN FEET

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are

APPROVED

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, codes, or rules and regulations not to Final inspection and approval.

These plans shall be available for all requested inspections.

Approved By: Allison Robertson

Approval Date: 5/8/24

File # SPR#-0739985 2260 SUMMIT AVE UST Multipurpose Arena

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JARED B. OLSON

REGISTRATION NO. 42340
DATE 11/03/2023

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DRAWN BY ZAT
CHECKED BY ATA
JOB NO. 701480
DATE 03.01.2024

ISSUE RECORD		
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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SITE PLAN - NW

C301

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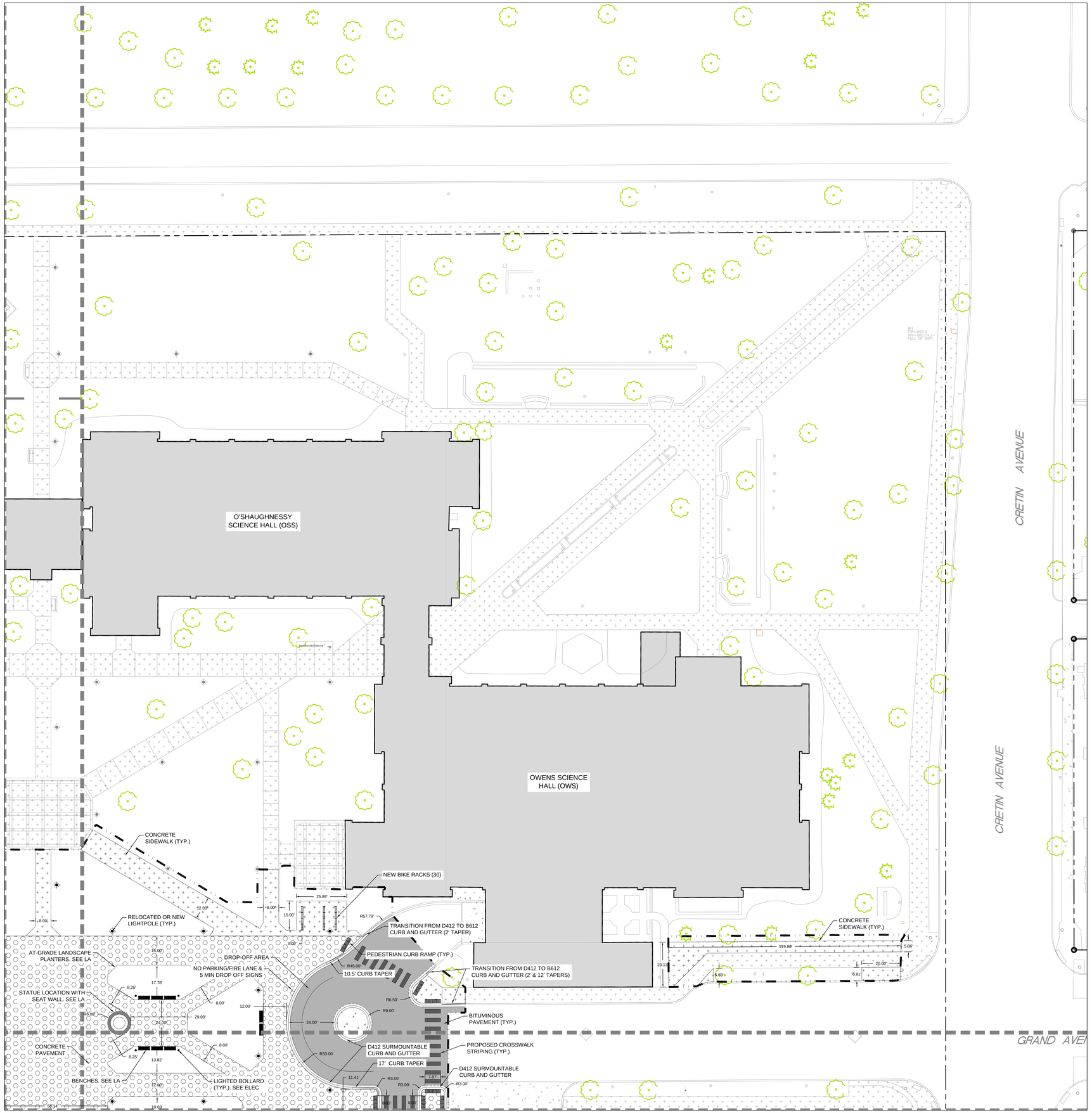

SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING / PROPOSED

- PROPERTY BOUNDARY
- LOT/TRACT LINE
- CURB
- EASEMENT
- BITUMINOUS
- HEAVY DUTY BITUMINOUS (DETAIL 9/C600)
- BITUMINOUS MILL & OVERLAY (DETAIL 11/C600)
- CONCRETE PAVEMENT - BROOM FINISH (DETAIL 12/C600)
- CONCRETE PAVEMENT - PICTURE FRAMED SHINED FINISH (DETAIL 12/C600)
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- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- GUARD RAIL
- DRAINAGE SWALE
- TREE
- TRUNCATED DOMES
- CONSTRUCTION LIMITS
- BOLLARDS
- LIGHT POLES

PROPOSED: TIP OUT

N

0 20 40
SCALE IN FEET

APPROVED
These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are approved by: Jason Peterson
Approval Date: 03.01.2024
File # SPRB-0798985 2260 SUMMIT AVE UST Multipurpose Arena
The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, code or rules, or other requirements to Final inspection and approval.
These plans shall be available for all requested inspections.

RYAN

RYAN A+E, INC.
533 South Third Street, Suite 100
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612-492-4000 tel
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WWW.RYANCOMPANIES.COM

CRAWFORD ARCHITECTS, INC.
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816-421-2640 tel
816-421-2650 fax
WWW.CRAWFORDARCH.COM

OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA
JOB NO.	**DATE**
701480	03.01.2024

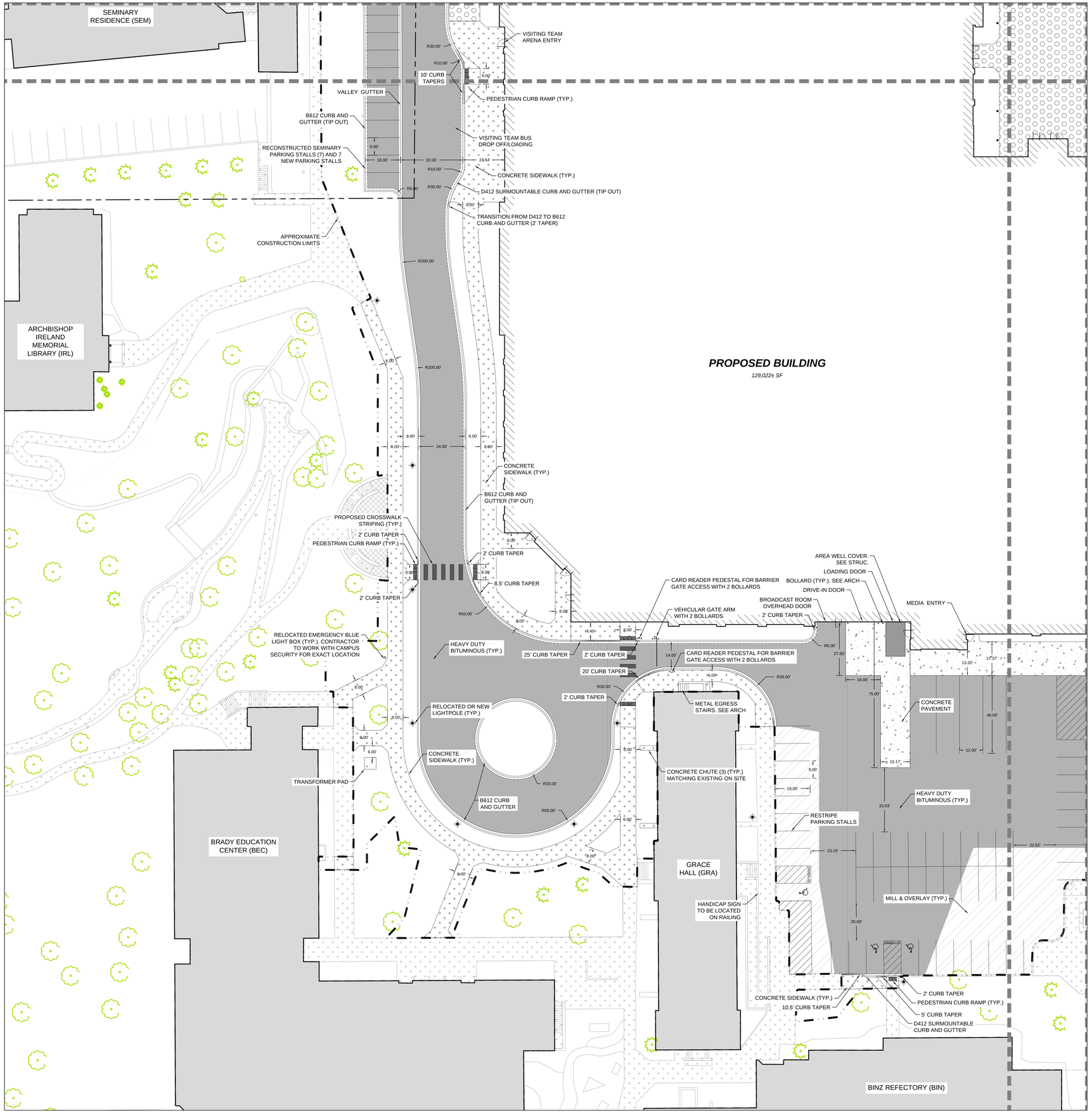
ISSUE RECORD		
ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
2	06/22/2023	50% SCHEMATIC DESIGN
3	09/01/2023	100% SCHEMATIC DESIGN
4	11/03/2023	UI CD SET - BULL 1
5	11/17/2023	50% DESIGN DEVELOPMENT
6	12/11/2023	ARENA BID PKG-3
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SITE PLAN - NE

C302

C:\Users\zzthor\DCACCDocs\Ryan Companies\701480 UST Athletics Hockey Arena\Project Files\Ryan Civil\02 Sheet Files\701480 - C300 SITE PLAN.dwg



SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING / PROPOSED

- PROPERTY BOUNDARY
- LOT/TRACT LINE
- CURB
- EASEMENT
- BITUMINOUS
- HEAVY DUTY BITUMINOUS (DETAIL 9/C600)
- BITUMINOUS MILL & OVERLAY (DETAIL 11/C600)
- CONCRETE PAVEMENT - BROOM FINISH (DETAIL 12/C600)
- CONCRETE PAVEMENT - PICTURE FRAMED SHINED FINISH (DETAIL 12/C600)
- CONCRETE SIDEWALK - PICTURE FRAMED SHINED FINISH (DETAIL 13/C600)
- SEMINARY PAVERS
- GRAVEL
- CHAIN LINK FENCE
- ORNAMENTAL FENCE
- GUARD RAIL
- DRAINAGE SWALE
- TREE
- TRUNCATED DOMES
- CONSTRUCTION LIMITS
- BOLLARDS
- LIGHT POLES

N

0 20 40
SCALE IN FEET

APPROVED

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are

Approval Date: 03/01/2024

Approved By: Kyle Anderson

File # SPR20079985 2260 SUMMIT AVE UST Multipurpose Arena

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, codes or regulations and is subject to final inspection and approval.

These plans shall be available for all requested inspections.

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JARED B. OLSON

REGISTRATION NO.	DATE
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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

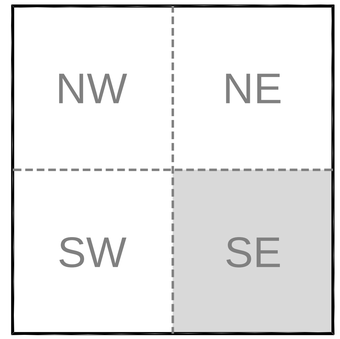
SITE PLAN - SW

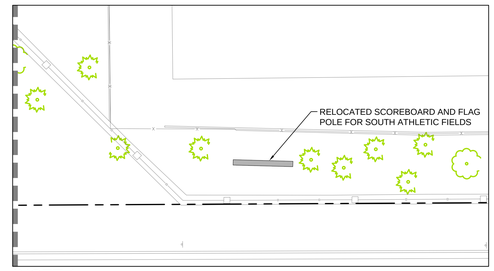
C303

C:\Users\athor\DCACCDocs\Ryan Companies\701480 UST Athletics Hockey Arena\Project Files\Ryan Civil\02 Sheet Files\701480 - C300 SITE PLAN.dwg

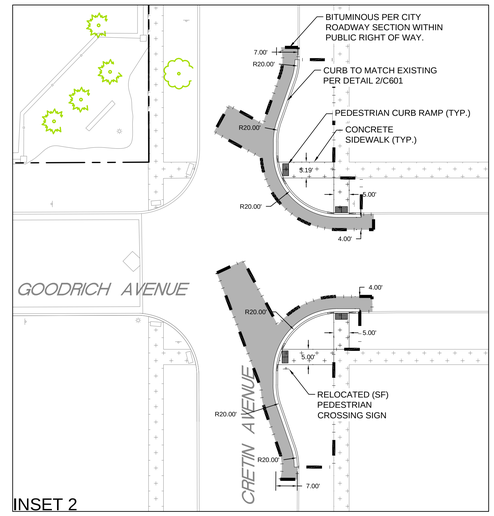
C:\Users\zthor\DCACCDocs\Ryan Companies\701480 UST Athletics Hockey Arena\Project Files\Ryan Civil\02 Sheet Files\701480 - C300 SITE PLAN.dwg

SHEET KEY:



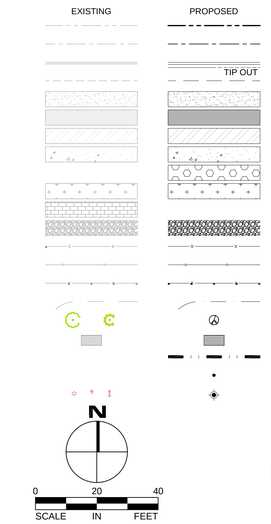


INSET 1



INSET 2

LEGEND:



PROPERTY BOUNDARY
LOT/TRACT LINE
CURB
EASEMENT
BITUMINOUS
HEAVY DUTY BITUMINOUS (DETAIL 9/C600)
BITUMINOUS MILL & OVERLAY (DETAIL 11/C600)
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CONCRETE SIDEWALK - PICTURE FRAMED SHINED FINISH (DETAIL 13/C600)
SEMINARY PAVERS
GRAVEL
CHAIN LINK FENCE
ORNAMENTAL FENCE
GUARD RAIL
DRAINAGE SWALE
TREE
TRUNCATED DOMES
CONSTRUCTION LIMITS
BOLLARDS
LIGHT POLES

APPROVED

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are approved for Land Disturbance Activities only.

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, even if the noncompliance was not noted in final inspection and approval.

These plans shall be available for all requested inspections.

Approved by the Department of Safety and Inspections

File # 20-023-079985 2260 SUMMIT AVE UST Multipurpose Arena

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STRUCTURAL DESIGN + ENGINEERING

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JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

SITE PLAN - SE

C304

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BUILDING PERMIT SET
03/01/2024

GRADING PLAN - OVERALL

C400

C:\Users\ztho\DCACCDocs\Ryan Companies\701480 UST Athletics Hockey Arena\Project Files\Ryan Civil\02 Sheet Files\701480 - C400 GRADING PLAN.dwg

SUMMIT AVENUE
857.69± MATCH EXISTING
858.13± MATCH EXISTING
858.03± MATCH EXISTING
857.60± MATCH EXISTING
858.00± MATCH EXISTING
858.54± MATCH EXISTING
TC=GL:858.69
858.90± MATCH EXISTING
TC=GL:858.85
TC:859.21
GL:858.71
TC:859.37
GL:858.87
859.29± MATCH EXISTING
859.69± MATCH EXISTING
GL:859.69
GL:859.73
GL:859.90
GL:859.65
TC:860.15
TC=GL:859.67
859.80± MATCH EXISTING
859.77± MATCH EXISTING
860.63± MATCH EXISTING
BM #12
P:859.94
GL:859.90
GL:859.77
SCHOENECKER CENTER (SCC)
862.00± MATCH EXISTING
GRADING TO MATCH SCHOENECKER CENTER (SCC) DESIGN PER LATEST PLANS.
ST MARYS CHAPEL (SMC)
859.83± MATCH EXISTING
GL:859.07
863.35± MATCH EXISTING
GL:863.90
C:863.90
G:864.01
G:863.80
FFE:863.90
BFE:847.90
G:863.71
863.48± MATCH EXISTING
863.44± MATCH EXISTING
863.29± MATCH EXISTING
863.11± MATCH EXISTING
C:863.63
C:863.54
C:863.60
C:863.47
C:863.47
C:863.46
C:863.22
C:863.22
RIM:858.90
859.73± MATCH EXISTING
GL:863.22
C:863.76
C:863.53
C:863.53
C:863.46
C:863.23
C:863.15
C:863.15
SCHOOL OF DIVINITY (SOD)
862.20± MATCH EXISTING
862.11± MATCH EXISTING
861.99± MATCH EXISTING
RIM:861.00
RIM:860.78
C:861.50
C:861.50
EOF EOF: 861.50
RIM:861.12
RIM:860.91
861.97± MATCH EXISTING
RIM:861.35
RIM:861.68
860.10± MATCH EXISTING
GL:859.62
860.22± MATCH EXISTING
860.60± MATCH EXISTING
TC:860.51
GL:860.01
TC=GL:860.06
RIM:859.82
RIM:860.39
C:861.75
C:861.75
C:861.64
C:861.64
C:861.65
C:861.65
C:861.70
C:861.70
C:862.00
C:862.00
C:862.00
TC=GL:860.17
GL:860.16
TC:860.56
RIM:860.15
TC=GL:860.18
C:860.70
C:860.82
C:861.18
C:861.94
C:862.00
TC:860.72
GL:860.39
G:861.50
G:860.29
GL:860.41
RIM:860.26
C:861.21
RIM:861.71
G:860.43
861.01± MATCH EXISTING
GL:861.26
C:862.00
C:862.00
C:862.00
SEMINARY RESIDENCE (SEM)
861.10± MATCH EXISTING
TC:861.65
GL:861.32
TC=GL:861.35
C:861.81
C:861.61
RIM:861.61
0.5%
1.2%
1.9%
2.8%
3.0%
2.1%
1.0%
6.1%
4.4%
1.5%
2.4%
1.0%
0.5%
1.2%
1.0%
1.7%
1.6%
2.0%
1.7%
1.8%
2.1%
0.9%
0.2%
4.5%
1.0%
0.8%
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2.8%
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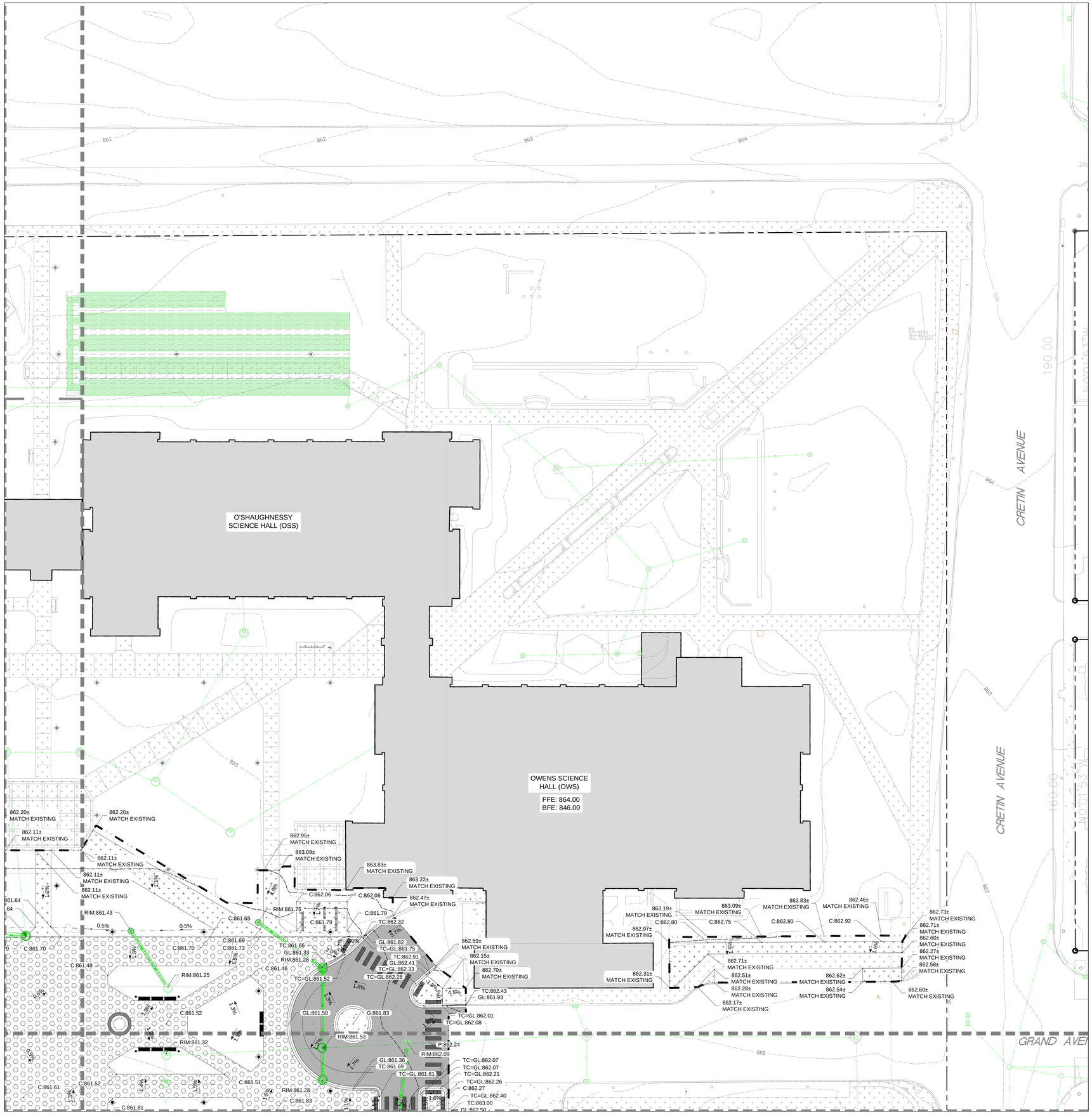
0.6



SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING	PROPOSED	
830	830	MAJOR CONTOUR
831	831	MINOR CONTOUR
		DRAINAGE SWALE
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		STORM CLEANOUT
1.00%	1.00%	ONE-POINT PERCENT GRADE
1.00%	1.00%	TWO-POINT PERCENT GRADE
3:1	3:1	SLOPE RATIO
	-3.6 0.3	CUT / FILL DEPTH
P:830.62	P:830.62	PAVEMENT ELEVATION
C:830.62	C:830.62	CONCRETE ELEVATION
GL:830.62	GL:830.62	GUTTER LINE ELEVATION
TC:830.62	TC:830.62	TOP OF CURB ELEVATION
TC=GL:830.62	TC=GL:830.62	TOP OF CURB=GUTTER LINE
TW:830.62	TW:830.62	TOP OF WALL ELEVATION
BW:830.62	BW:830.62	BOTTOM OF WALL ELEVATION
G:830.62	G:830.62	GROUND ELEVATION
NG:830.62		NATURAL GROUND
	FFE:830.62	FINISHED FLOOR ELEVATION
	RIM:830.62	STRUCTURE RIM ELEVATION
		SOIL BORING
		CONSTRUCTION LIMITS

N

0 20 40
SCALE IN FEET

APPROVED
These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are:
Approved Date: 04/04/2024
Approved By: Tim Anderson
File # SP#23-079 LEE & PENNY ANDERSON 2260 SUMMIT AVE UST Multipurpose Arena
The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, nor relieve the owner of the need for final inspection and approval.
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STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

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JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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BUILDING PERMIT SET
03/01/2024

GRADING PLAN - NE

C402

C:\Users\zthor\DCACCDocs\Ryan Companies\701480 UST Athletics Hockey Arena\Project Files\Ryan Civil\02 Sheet Files\701480 - C400 GRADING PLAN.dwg

SEMINARY RESIDENCE (SEM)

ARCHBISHOP IRELAND MEMORIAL LIBRARY (IRL)

BRADY EDUCATION CENTER (BEC)

GRACE HALL (GRA)
FFE: 863.09
BFE: 852.34

BINZ REFECTORY (BIN)

PROPOSED BUILDING
129,022± SF

FFE: 862.00
BFE: 848.00

ENSURE SIDEWALK DRAINAGE DRAINS TO GREEN SPACE (HOLD DOWN SOIL SO SOD DOESNT PREVENT WATER FROM DRAINING INTO GREEN SPACE)

ENSURE SIDEWALK DRAINAGE DRAINS TO GREEN SPACE (HOLD DOWN SOIL SO SOD DOESNT PREVENT WATER FROM DRAINING INTO GREEN SPACE)

ENSURE DISTURBED AREAS ALLOW FOR ACCESSIBLE ROUTE FROM HANDICAP PARKING TO BUILDING ENTRIES

ACCESSIBLE PARKING STALLS AND ACCESS AISLE TO BE NO GREATER THAN 2% SLOPE IN ANY DIRECTION

SHEET KEY:

NW	NE
SW	SE

LEGEND:

EXISTING	PROPOSED	
830	830	MAJOR CONTOUR
831	831	MINOR CONTOUR
		DRAINAGE SWALE
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		STORM CLEANOUT
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G:830.62	G:830.62	GROUND ELEVATION
NG:830.62		NATURAL GROUND
FFE:830.62		FINISHED FLOOR ELEVATION
RIM:830.62		STRUCTURE RIM ELEVATION
		SOIL BORING
		CONSTRUCTION LIMITS

N

0 20 40
SCALE IN FEET

APPROVED

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The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, nor does it waive any requirements for final inspection and approval.

These plans shall be available for all requested inspections.

Approval Date: 04/04/2024

Approved By: Tim Anderson

File #: SPR23-070 (2260 SUMMIT AVE UST Multipurpose Arena)

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BUILDING PERMIT SET
03/01/2024

GRADING PLAN - SW

C403

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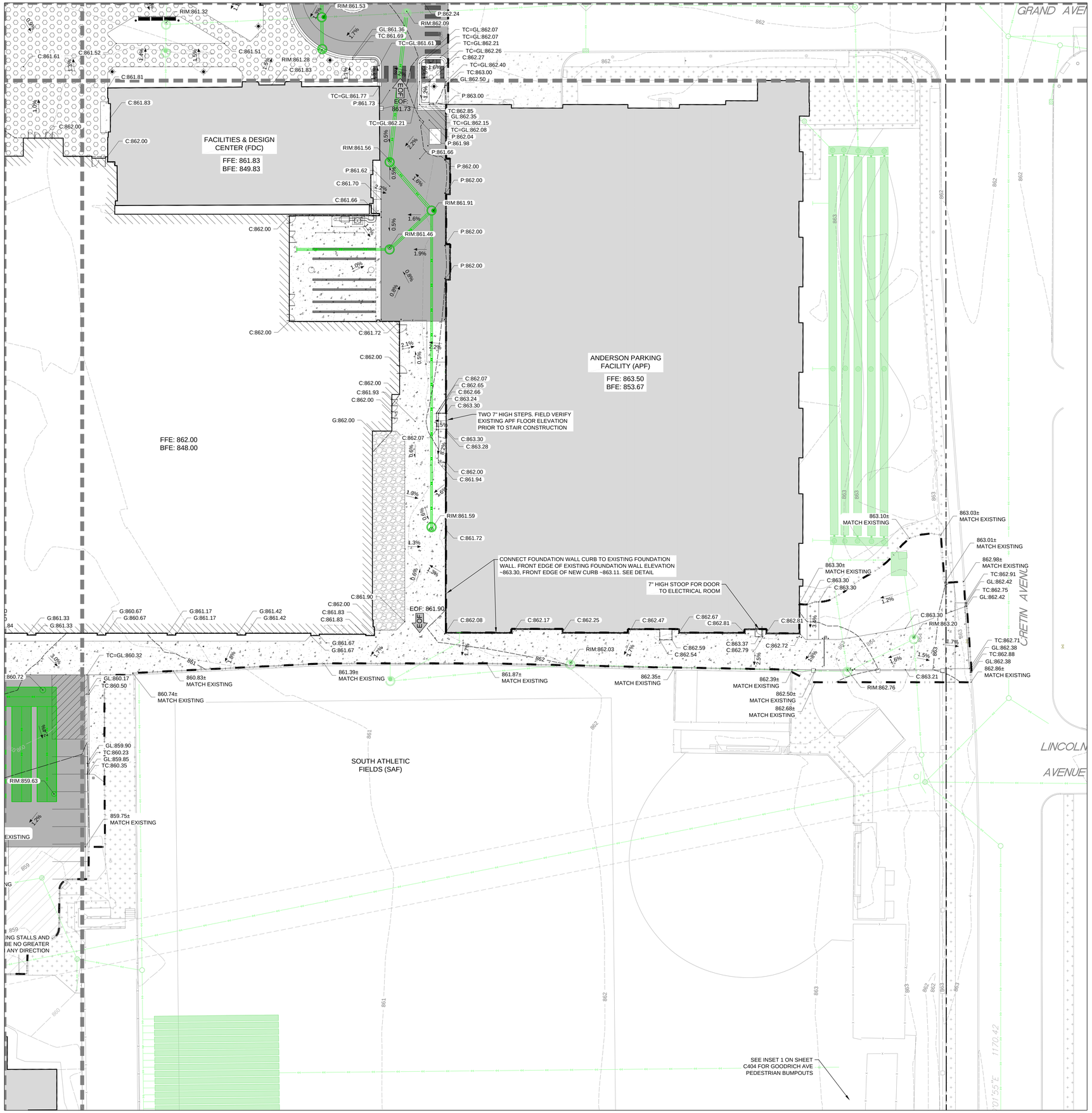

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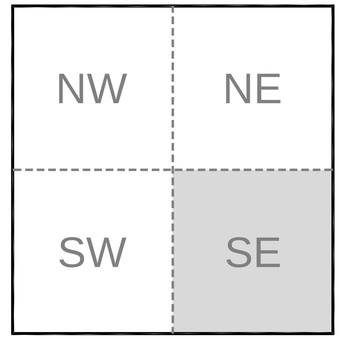
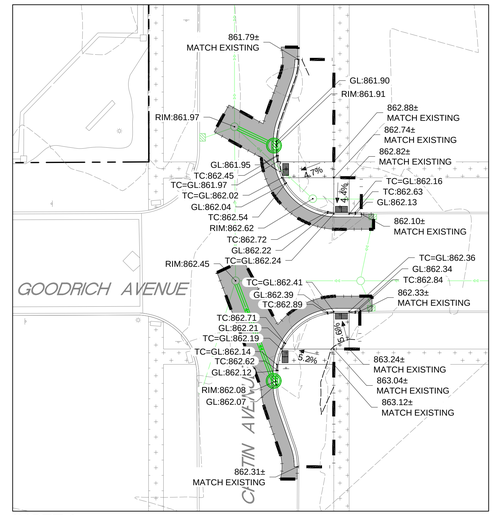
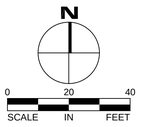




INSET 1

LEGEND:

EXISTING	PROPOSED	
830	830	MAJOR CONTOUR
831	831	MINOR CONTOUR
		DRAINAGE SWALE
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		STORM CLEANOUT
1.00%	1.00%	ONE-POINT PERCENT GRADE
1.00%	1.00%	TWO-POINT PERCENT GRADE
3:1	3:1	SLOPE RATIO
	-3.6 0.3	CUT / FILL DEPTH
P:830.62	P:830.62	PAVEMENT ELEVATION
C:830.62	C:830.62	CONCRETE ELEVATION
GL:830.62	GL:830.62	GUTTER LINE ELEVATION
TC:830.62	TC:830.62	TOP OF CURB ELEVATION
TC=GL:830.62	TC=GL:830.62	TOP OF CURB=GUTTER LINE
TW:830.62	TW:830.62	TOP OF WALL ELEVATION
BW:830.62	BW:830.62	BOTTOM OF WALL ELEVATION
G:830.62	G:830.62	GROUND ELEVATION
NG:830.62		NATURAL GROUND
	FFE:830.62	FINISHED FLOOR ELEVATION
	RIM:830.62	STRUCTURE RIM ELEVATION
		SOIL BORING
		CONSTRUCTION LIMITS



APPROVED

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are:

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, nor conceal the need for subsequent final inspection and approval.

These plans shall be available for all requested inspections.

Approval Date: 04/04/2024
Approved By: Tina Anderson
File #: SPR23-079[illegible]2260 SUMMIT AVE UST Murphy

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OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA
JOB NO.	**DATE**
701480	03.01.2024

ISSUE RECORD

ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
2	06/22/2023	50% SCHEMATIC DESIGN
3	09/01/2023	100% SCHEMATIC DESIGN
4	11/03/2023	UI CD SET - BULL 1
5	11/17/2023	50% DESIGN DEVELOPMENT
6	12/11/2023	ARENA BID PKG-3
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

GRADING PLAN - SE

C404

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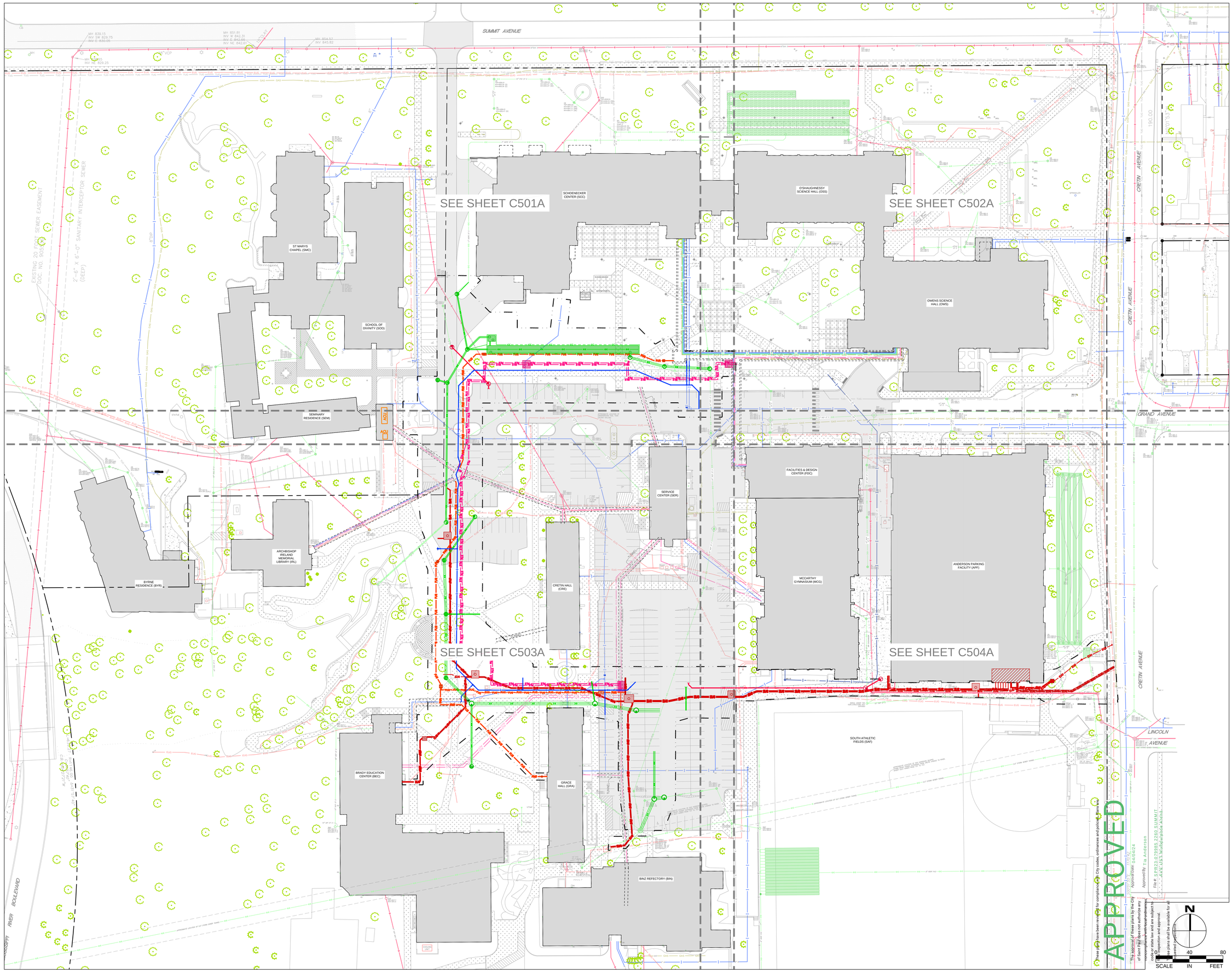

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9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

UTILITY PLAN - OVERALL - PH 1

C500A

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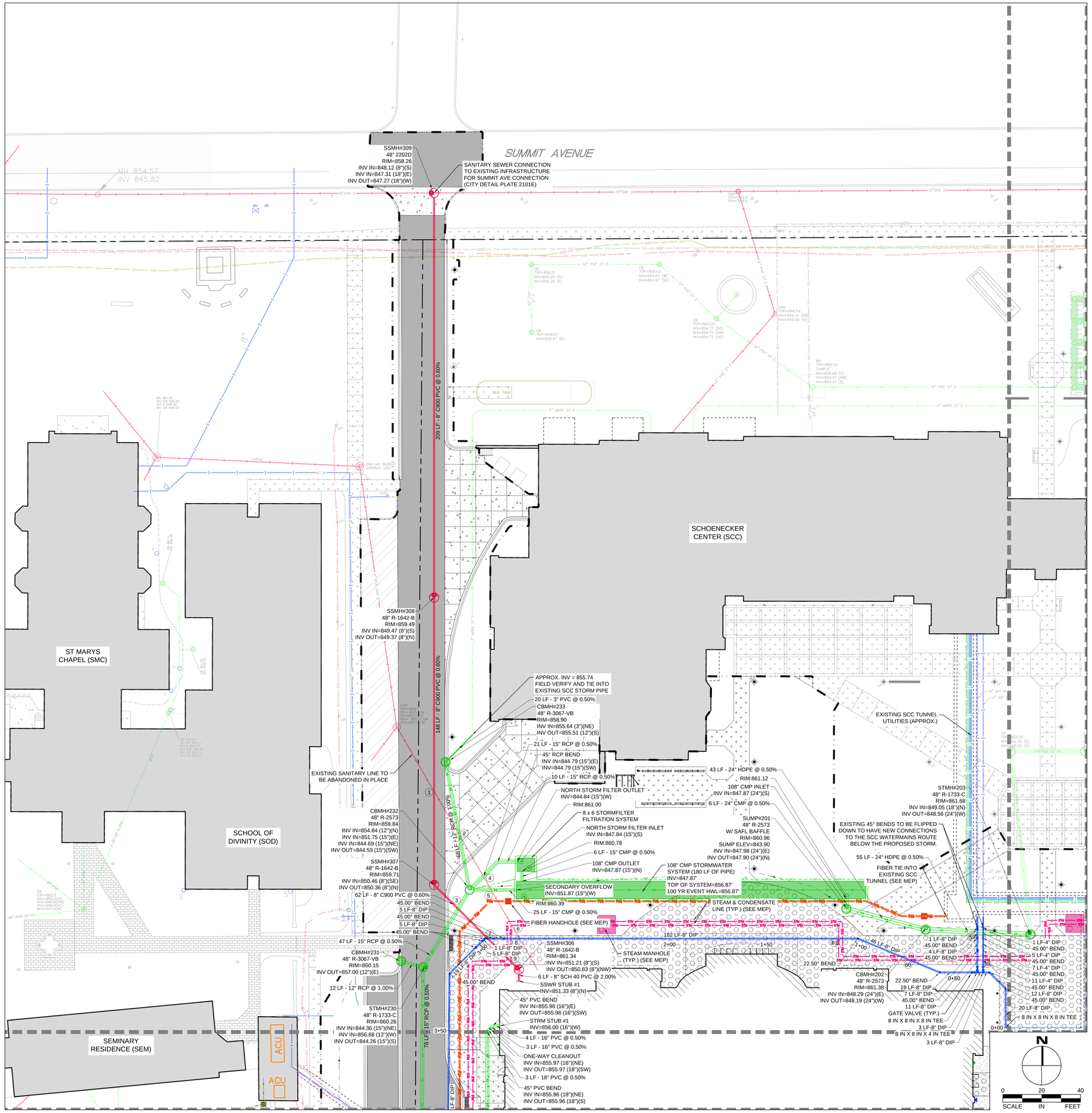
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

UTILITY PLAN - OVERALL - PH 2

C500B



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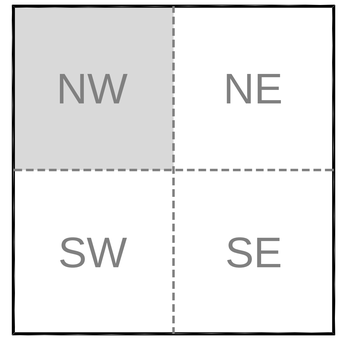
SHEET KEY:



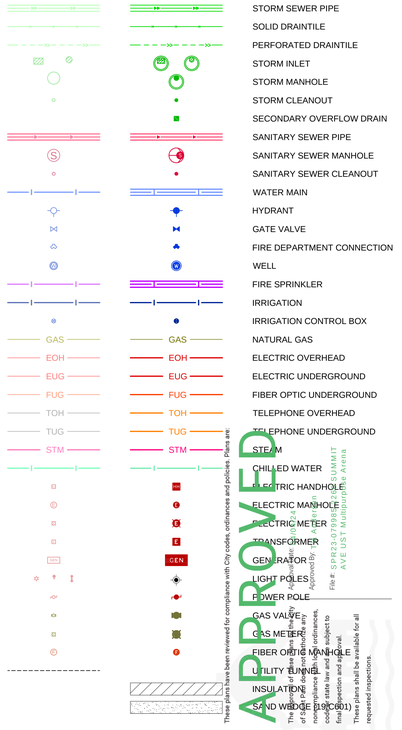
UTILITY CROSSING SCHEDULE

UTILITY CROSSING NUMBER	STORM SEWER TOP/BOT OF PIPE ELEV.	SANITARY SEWER TOP/BOT OF PIPE ELEV.	WATERMAIN TOP/BOT OF PIPE ELEV.	STEAM TOP/BOT OF PIPE ELEV.	ELECTRIC TOP/BOT OF DUCT BANK ELEV.	UTILITY TUNNELS TOP/BOT OF FLOORS	EXISTING UTILITIES TOP/BOT OF PIPE ELEV.	UTILITY SEPARATION
1	---	850.05' (BOT)	---	---	---	---	848.40' (TOP)*	1.64'
2	854.97' (BOT)	---	---	---	---	---	848.72' (TOP)*	6.25'
3	845.95' (TOP)	850.54' (BOT)	---	---	---	---	---	4.59'
4	846.15' (TOP)	---	---	---	---	---	848.27' (BOT)*	2.11'
5	851.76' (BOT)	---	---	---	---	---	849.08' (TOP)*	2.69'
6	---	---	---	854.99' (BOT)	---	---	849.30' (TOP)*	5.69'
7	---	850.67' (BOT)	847.67' (TOP)	---	---	---	---	3.00**
8	---	---	852.26' (BOT)	855.01' (BOT)	---	---	849.39' (TOP)*	2.87**
9	---	851.49' (TOP)	---	855.04' (BOT)	---	---	---	3.55
58	---	---	853.23' (TOP)	854.35' (BOT)	---	---	---	0.97'
59	848.26' (BOT)	---	846.76' (TOP)	---	---	---	---	1.50**
60	---	---	853.58' (TOP)	854.44' (BOT)	---	---	---	0.86'
61	---	---	853.57' (TOP)	854.56' (BOT)	---	---	---	0.99'

* CROSSING AT EXISTING UTILITY, FIELD VERIFY DEPTH
** 3' MINIMUM SEPARATION REQUIRED BETWEEN WATERMAIN AND SEWER. LOWER OR RAISE WATERMAIN AT CROSSING TO PROVIDE 3' OF SEPARATION, OR ADD INSULATION IF 3' SEPARATION IS NOT ACHIEVABLE (SEE DETAIL 7/C602).

NOTE: UTILITY TUNNEL DEPTHS TO BE FIELD VERIFIED

LEGEND:



APPROVED

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are reviewed only for the purpose of determining compliance with City codes, ordinances, and policies. This approval does not relieve the applicant of any responsibility to correct any noncompliance that is subsequently discovered by City staff during construction. The applicant is responsible for requesting final inspection and approval. These plans shall be available for all requested inspections.

File # SPR23-079992 2260SUMMIT AVE UST Multipurpose Arena

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STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

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JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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JOB NO.	**DATE**
701480	03.01.2024

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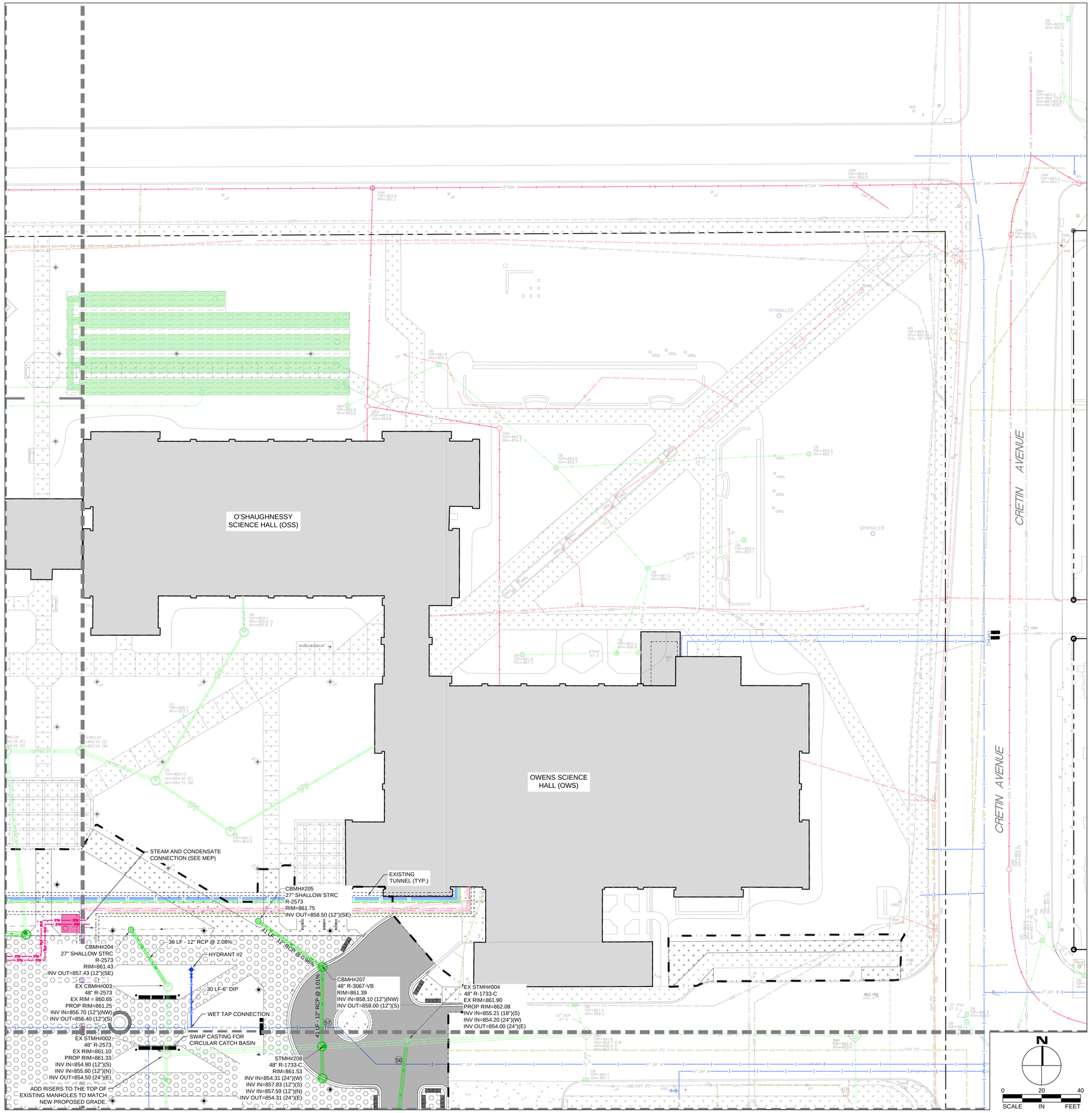
BUILDING PERMIT SET
03/01/2024

UTILITY PLAN - NW

C501



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SHEET KEY:

NW	NE
SW	SE

UTILITY CROSSING SCHEDULE

UTILITY CROSSING NUMBER	STORM SEWER TOP/BOT OF PIPE ELEV.	SANITARY SEWER TOP/BOT OF PIPE ELEV.	WATERMAIN TOP/BOT OF PIPE ELEV.	STEAM TOP/BOT OF PIPE ELEV.	ELECTRIC TOP/BOT OF DUCT BANK ELEV.	UTILITY TUNNELS TOP/BOT OF FLOORS	EXISTING UTILITIES TOP/BOT OF PIPE ELEV.	UTILITY SEPARATION
56	855.22' (BOT)	---	---	---	---	---	853.96' (TOP)*	1.26'**
57	857.51' (BOT)	---	---	---	---	---	853.96' (TOP)*	3.55'**

* CROSSING AT EXISTING UTILITY, FIELD VERIFY DEPTH
** 3' MINIMUM SEPARATION REQUIRED BETWEEN WATERMAIN AND SEWER. LOWER OR RAISE WATERMAIN AT CROSSING TO PROVIDE 3' OF SEPARATION, OR ADD INSULATION IF 3' SEPARATION IS NOT ACHIEVABLE (SEE DETAIL 7/C602).

NOTE: UTILITY TUNNEL DEPTHS TO BE FIELD VERIFIED

LEGEND:

EXISTING	PROPOSED	
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		STORM CLEANOUT
		SECONDARY OVERFLOW DRAIN
		SANITARY SEWER PIPE
		SANITARY SEWER MANHOLE
		SANITARY SEWER CLEANOUT
		WATER MAIN
		HYDRANT
		GATE VALVE
		FIRE DEPARTMENT CONNECTION
		WELL
		FIRE SPRINKLER
		IRRIGATION
		IRRIGATION CONTROL BOX
GAS	GAS	NATURAL GAS
EOH	EOH	ELECTRIC OVERHEAD
EUG	EUG	ELECTRIC UNDERGROUND
FUG	FUG	FIBER OPTIC UNDERGROUND
TOH	TOH	TELEPHONE OVERHEAD
TUG	TUG	TELEPHONE UNDERGROUND
STM	STM	STEAM
		CHILLED WATER
		ELECTRIC HANDHOLE
		ELECTRIC MANHOLE
		ELECTRIC METER
		TRANSFORMER
	GEN	GENERATOR
		LIGHT POLES
		POWER POLE
		GAS VALVE
		GAS METER
		FIBER OPTIC MANHOLE
		UTILITY TUNNEL
		INSULATION
		SAND WEDGE (10/C601)

APPROVED
These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are Approved By: ... Date: ... File #: SPR23-079988 ... SUMMIT AVE UST Multipurpose Arena
The approval of these plans does not relieve the contractor of responsibility for compliance with codes, ordinances, and policies. Contractor is responsible for any Final inspection and C.O.
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BUILDING PERMIT SET
03/01/2024

UTILITY PLAN - NE

C502

SEMINARY RESIDENCE (SEM)

ARCHBISHOP IRELAND MEMORIAL LIBRARY (IRL)

BRADY EDUCATION CENTER (BEC)

GRACE HALL (GRA)

BINZ REFECTORY (BIN)

ACU

DISSIMILAR PIPE MANHOLE
INV IN=843.87 (15")(N)
INV OUT=843.79 (16")(S)

NEW GAS METER (SEE MEP)

CONNECTION TO EXISITNG NGAS MAIN (SEE MEP)

89 LF - 16" PVC @ 0.50%

STORM SEWER TO BE DIRECTIONALLY BORED UNDER EXISTING TUNNELS WITHIN 23' O.D. STEEL CASING PIPE

SOD BUNKER WITH STEAM, FIBER, AND CONDENSATE CONNECTIONS (SEE MEP)

CONNECTION TO EXISTING ELECTRICAL CONDUIT (SEE MEP)

STMH#227
48" R-1733-C
RIM=860.58
INV IN=843.35 (16")(N)
INV OUT=840.10 (15")(SW)
FIELD VERIFY EXISTING PIPE ELEVATION

112 LF - 15" PVC @ 1.92%

STORMWATER CONNECTION TO EXISTING GROTTO DRAINAGE SYSTEM

EMH #5 - 8x8 ELECTRICAL MANHOLE
INV IN: -2.5' FROM RIM (S)(2x1 DUCT BANK)
INV OUT: -2.5' FROM RIM (N)(2 CONDUITS)
INV OUT: -2.5' FROM RIM (W)(FUTURE CONDUITS

HYDRANT #1

CBMH#226
48" R-3067-V
RIM=860.07
INV IN=852.58 (20")(NE)
INV OUT=852.24 (24")(S)

CBMH#225
48" R-3067-V
RIM=859.55
INV IN=851.92 (24")(N)
INV IN=852.82 (12")(E)
INV OUT=851.82 (24")(S)

77 LF - 24" RCP @ 0.50%

CBMH#224
48" R-3067-V
RIM=859.17
INV IN=851.44 (24")(N)
INV OUT=851.34 (24")(SE)

44 LF - 24" RCP @ 0.50%

BACKFEED UTILITIES TO BRADY EDUCATION CENTER (REFER TO MEP FOR TUNNEL PORTION). 4" TO 3" PIPE REDUCER TO BE CONSTRUCTED TO TIE INTO TUNNEL PORTION OF LINE.

2X1 DUCT BANK (SEE ELECTRIC)

RELOCATED BEC TRANSFORMER (SEE MEP)

PROPOSED ELECTRICAL CONNECTION TO BRADY (SEE ELECTRIC)

STMH#228
48" R-1733-C
RIM=861.66
INV IN=855.33 (18")(N)
INV OUT=852.90 (20")(SW)

64 LF - 20" SCH 40 PVC @ 0.50%

SECONDARY OVERFLOW LOCATION (TYP.)

KEEP WATERMAIN ROUGHLY 10' BELOW GRADE FOR THIS STRETCH.

STEAM AND CONDENSATE (SEE MEP)

41 LF - 12" PVC @ 1.00%

ONE-WAY CLEANOUT
INV IN=855.97 (10")(E)
INV OUT=853.23 (12")(W)

3 LF - 10" PVC @ 1.00%

STRM STUB #3
INV=856.00 (10")(W)

EMH #4 - 8x8 ELECTRICAL MANHOLE
RIM=859.46
INV IN: -8.0' FROM RIM (E)(2x2 DUCT BANK)
INV OUT: -2.5' FROM RIM (W)(3x2 DUCT BANK)

STEAM MANHOLE (SEE MEP)

FIBER MANHOLE (SEE MEP)

18 LF-8" DIP
STRM STUB #4
INV=857.00 (12")(S)

3 LF - 12" SCH 40 PVC @ 2.00%

ONE-WAY CLEANOUT
RIM=860.78
INV IN=856.94 (12")(N)
INV OUT=853.20 (12")(S)

27 LF - 12" PVC @ 1.00%

8" WATER STUB #2 (FIRE)

CBMH#222
48" R-3067-VB
RIM=857.91
INV OUT=852.50 (15")(N)

STMH#223
60" R-1733-C
RIM=859.17
INV IN=851.12 (24")(NW)
INV IN=852.13 (15")(S)
INV OUT=850.62 (30")(E)

EXISTING STEAM TO REMAIN

STMH#219
60" R-1733-C
RIM=859.02
INV IN=849.88 (30")(W)
INV IN=852.93 (12")(N)
INV OUT=846.89 (30")(E)

29 LF-8" DIP

50 LF - 30" RCP @ 0.52%

EMH #3 - 8X8 ELECTRICAL MANHOLE
RIM=860.86
INV IN: -11.18' FROM RIM (E)(3x2 DUCT)
INV OUT: -11.18' FROM RIM (W)(2x2 DUCT)
INV OUT: -8.68' FROM RIM (N)(2x1 DUCT)
INV OUT: -4.5' FROM RIM (S)(2x1 DUCT)

75 LF - 15" RCP @ 0.50%

SUMP #218
60" R-1733-C
W/ SAFL BAFFLE
RIM=860.56
SUMP ELEV=842.13
INV IN=846.63 (30")(W)
INV OUT=846.13 (36")(E)

FIBER HANDHOLE (SEE MEP)

FIBER TIE TO GRACE HALL (SEE MEP)

WEST DUCT BANK EDGE TO BE ROUGHLY 6' EAST OF EDGE OF TUNNEL TO AVOID EXCAVATION OF WEST SIDE OF TUNNEL.

FUTURE TUNNEL EXTENSION

CBMH#217
60" R-2573-C
RIM=858.00
INV IN=842.71 (18")(N)
INV IN=850.93 (30")(E)
INV OUT=841.71 (30")(SW)

CONCRETE ENCASED DUCT BANK TO BE RUN AT ABSOLUTE MINIMUM DEPTH (-8") TO RUN OVERTOP OF EXISTING TUNNEL AND TIE INTO EXISTING ELECTRICAL MANHOLE. REFER TO ELECTRICAL CODE AND FIELD VERIFY TUNNEL DEPTH.

EX CBMH#009
60" R-3067
RIM=858.64
INV IN=841.51 (30")(NE)
INV IN=848.80 (12")(NW)
INV IN=849.10 (12")(SW)
INV IN=842.20 (8")(SW)
BOTTOM=841.10

148 LF - 30" RCP @ 0.50%

61 LF-8" DIP

53 LF-8" DIP

8 IN X 8 IN X 4 IN TEE

9 LF-8" DIP

11.25° BEND

19 LF-8" DIP

15 LF-8" DIP

28 LF-8" DIP

64 LF-8" DIP

78 LF-8" DIP

68 LF-8" DIP

85 LF-8" DIP

127 LF - 18" PVC @ 0.50%

22.50° BEND
8 LF-8" DIP
45.00° BEND
13 LF-8" DIP
45.00° BEND
12 LF-8" DIP
22.50° BEND
6 LF-8" DIP
11.25° BEND
45.00° BEND
4 LF-8" DIP
45.00° BEND
11 LF-8" DIP
8 IN X 8 IN X 6 IN TEE
9 LF-6" DIP
45.00° BEND
3 LF-6" DIP
45.00° BEND
12 LF-6" DIP
11.25° BEND
45.00° BEND
28 LF-8" DIP
45.00° BEND
11 LF-4" DIP
4 LF-4" DIP
6 LF-4" DIP
45.00° BEND
2 LF-4" DIP
45.00° BEND
3 LF-4" DIP
45.00° BEND
2 LF-4" DIP
1 LF-4" DIP
90.00° BEND
45.00° BEND
9 LF-8" DIP
45.00° BEND
8 IN X 8 IN X 4 IN TEE
45.00° BEND
45.00° BEND

4+00
4+50
5+00
5+50
6+00
6+50
7+00
7+50
8+00
8+50
8+88

65 LF - 24" RCP @ 0.50%

64 LF-8" DIP

PROPOSED BUILDING

129,022± SF

PROPOSED TUNNEL/BASEMENT, SEE ARCH

BASEMENT DRAINTILE (TYP.)

MV FEED TO ARENA ELEC. ROOM (SEE MEP; LOCATION TBD)

FIBER TIE IN TO ARENA (SEE MEP)

CAST IN PLACE STEAM MANHOLE (SEE MEP)

45.00° BEND
1 LF-8" DIP
11.25° BEND
4 LF-8" DIP
45.00° BEND
9 LF-8" DIP
45.00° BEND
3 LF-8" DIP
45.00° BEND
10 LF-8" DIP
8 IN X 8 IN X 8 IN TEE

8" WATER STUB #1 (DOMESTIC)

TWO-WAY DRAINTILE CLEANOUT (SEE DETAIL)

MECHANICAL AREA WELL (SEE STRUCTURAL PLANS FOR DETAILS)

STRM STUB #5
INV=856.00 (12")(S)

29 LF - 36" RCP @ 0.46%

FIRE DEPARTMENT CONNECTION (FDC)

SECONDARY OVERFLOW LOCATION (TYP.)

SSWR STUB #2
INV=855.33 (8")(S)

2 LF - 8" SCH 40 PVC @ 0.40%

45° PVC BEND
INV IN=855.32 (8")(N)
INV OUT=855.32 (8")(SE)

3 LF - 8" SCH 40 PVC @ 0.40%

ONE-WAY CLEANOUT
RIM=861.78
INV IN=855.31 (8")(NW)
INV OUT=855.31 (8")(SE)

4 LF - 8" SCH 40 PVC @ 0.40%

PROPOSED NGAS CONNECTION AND METER (SEE MEP)

45° PVC BEND
INV IN=855.30 (8")(NW)
INV OUT=855.30 (8")(E)

28 LF - 12" SCH 40 PVC @ 4.80%

TIE INTO CMP SYSTEM
INV IN=854.67 (12")(N)

RIM=861.44

RIM=860.72

120" CMP INLET
INV IN=846.00 (36")(W)
INV IN=846.00 (120")(E)

120" CMP STORMWATER SYSTEM (369 LF OF PIPE)
INV=846.00'
TOP OF SYSTEM=856.00'
100 YR EVENT HWL=855.32'

SUMP #218 SHIFTED WEST 2' TO PROVIDE CLEARANCE FOR FUTURE UTILITY TUNNEL.

RIM=860.13

3 LF - 15" CMP @ 0.50%

14 x 8 STORMFILTER FILTRATION SYSTEM

RIM=859.74

120" CMP OUTLET
INV=846.00 (15")(W)

RIM=859.74

RIM=859.63

FILTER OUTLET
INV=842.99 (18")(S)

FILTER INLET
INV IN=845.99 (15")(E)

SECONDARY OVERFLOW - SOUTH
INV=853.00 (30")(S)

57 LF - 18" RCP @ 0.50%

50 LF - 30" CMP @ 0.50%

RELOCATED BINZ MEDIUM-VOLTAGE FEED (2x1 DUCT BANK)

41 LF - 30" RCP @ 0.50%

STMH#217A
60" R-1733-C
RIM=858.40
INV IN=852.75 (30")(N)
INV IN=852.49 (12")(E)
INV OUT=850.99 (30")(W)

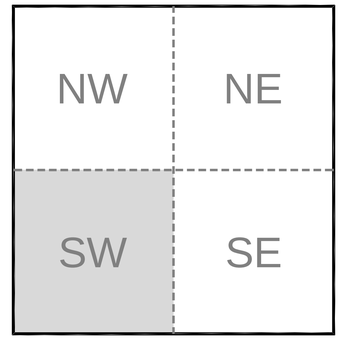
12 LF - 30" RCP @ 0.50%

N

0 20 40

SCALE IN FEET

SHEET KEY:



UTILITY CROSSING SCHEDULE

UTILITY CROSSING NUMBER	STORM SEWER TOP/BOT OF PIPE ELEV.	SANITARY SEWER TOP/BOT OF PIPE ELEV.	WATERMAIN TOP/BOT OF PIPE ELEV.	STEAM TOP/BOT OF PIPE ELEV.	ELECTRIC TOP/BOT OF DUCT BANK ELEV.	UTILITY TUNNELS TOP/BOT OF FLOORS	EXISTING UTILITIES TOP/BOT OF PIPE ELEV.	UTILITY SEPARATION
10	845.45' (TOP)	---	---	---	---	852.38' (BOT)	---	6.93'
11	---	---	852.60' (BOT)	856.28' (BOT)	---	852.50' (TOP)	---	0.10'^
12	845.35' (TOP)	---	---	---	---	852.87' (BOT)	---	7.52'
13	---	---	852.60' (BOT)	---	---	852.50' (TOP)	---	0.10'^
14	854.38' (TOP)	---	---	855.54' (BOT)	---	---	---	1.16'
15	852.67' (BOT)	---	849.66' (TOP)	---	---	---	---	3.00'**
16	852.61' (BOT)	---	849.62' (TOP)	---	---	---	---	3.00'**
17	---	---	849.62' (TOP)	---	856.95' (BOT)	---	---	7.33'
18	854.26' (TOP)	---	---	---	856.92' (BOT)	---	---	2.66'
19	854.03' (TOP)	---	---	855.78' (BOT)	---	---	---	1.75'
20	852.92' (BOT)	---	849.92' (TOP)	---	---	---	---	3.00'**
21	853.91' (TOP)	---	---	---	856.27' (BOT)	---	---	2.36'
22	---	---	851.27' (TOP)	---	855.94' (BOT)	---	---	4.67'
23	---	---	851.35' (TOP)	---	855.87' (BOT)	---	---	4.52'
24	---	---	850.42' (TOP)	---	855.82' (BOT)	---	---	5.40'
25	850.95' (BOT)	---	847.95' (TOP)	---	---	---	---	3.00'**
26	853.43' (TOP)	---	---	---	855.75' (BOT)	---	---	2.32'
27	853.74' (TOP)	---	---	---	---	---	855.76' (BOT)*	2.02'
28	---	---	---	855.46' (BOT)	851.17' (TOP)	---	---	4.29'
29	---	---	---	855.40' (BOT)	850.36' (TOP)	---	---	5.04'
30	---	---	851.13' (TOP)	855.34' (BOT)	---	---	---	4.21'
31	---	---	850.38' (BOT)	---	850.00' (TOP)	---	---	0.38'
32	853.04' (TOP)	---	---	---	---	---	855.67' (BOT)*	2.62'
33	---	---	850.77' (BOT)	---	850.18' (TOP)	---	---	0.59'
34	854.19' (TOP)	---	---	855.13' (BOT)	---	---	---	0.94'
35	853.06' (BOT)	---	851.89' (TOP)	---	---	---	---	1.17'**
36	853.03' (BOT)	---	---	---	850.00' (TOP)	---	---	3.03'
37	854.04' (TOP)	---	---	---	---	---	855.50' (BOT)*	1.46'
38	---	---	851.40' (BOT)	---	849.50' (TOP)	---	855.47' (BOT)*	5.73'
39	849.62' (TOP)	---	850.84' (BOT)	---	---	---	---	1.21'**
40	---	---	849.50' (TOP)	852.50'	---	---	---	3.00'
41	---	---	---	---	849.50' (TOP)	852.00' (BOT)	---	2.50'
42	849.53' (TOP)	---	---	---	---	852.00' (BOT)	---	2.47'
43	---	---	849.50' (TOP)	---	852.62' (BOT)	---	---	3.12'
44	---	---	---	---	849.50' (TOP)	851.00' (BOT)	---	1.50'
45	849.44' (TOP)	---	---	---	---	851.00' (BOT)	---	1.56'
46	844.58' (TOP)	---	---	---	---	---	850.62' (BOT)*	6.04'
47	852.87' (BOT)	---	---	---	---	---	851.45' (TOP)*	1.42'**
48	855.41' (BOT)	---	---	---	849.68' (TOP)	---	---	5.73'
62	849.48' (TOP)	---	---	---	856.32' (BOT)	---	---	6.84'
63	---	---	---	---	855.17' (BOT)	---	851.28' (TOP)	3.79'
64	---	---	---	---	857.81' (BOT)	857.63' (TOP)	---	0.18'

* CROSSING AT EXISTING UTILITY, FIELD VERIFY DEPTH
** 3' MINIMUM SEPARATION REQUIRED BETWEEN WATERMAIN AND SEWER. LOWER OR RAISE WATERMAIN AT CROSSING TO PROVIDE 3' OF SEPARATION, OR ADD INSULATION IF 3' SEPARATION IS NOT ACHIEVABLE (SEE DETAIL 7C602).
NOTE: UTILITY TUNNEL DEPTHS TO BE FIELD VERIFIED

LEGEND:

EXISTING	PROPOSED	
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		STORM CLEANOUT
		SECONDARY OVERFLOW DRAIN
		SANITARY SEWER PIPE
		SANITARY SEWER MANHOLE
		SANITARY SEWER CLEANOUT
		WATER MAIN
		HYDRANT
		GATE VALVE
		FIRE DEPARTMENT CONNECTION
		WELL
		FIRE SPRINKLER
		IRRIGATION
		IRRIGATION CONTROL BOX
GAS	GAS	NATURAL GAS
EOH	EOH	ELECTRIC OVERHEAD
EUG	EUG	ELECTRIC UNDERGROUND
FUG	FUG	FIBER OPTIC UNDERGROUND
TOH	TOH	TELEPHONE OVERHEAD
TUG	TUG	TELEPHONE UNDERGROUND
STM	STM	STEAM
	CHW	CHILLED WATER
	E	ELECTRIC HANDHOLE
	E	ELECTRIC MANHOLE
	E	ELECTRIC METER
	T	TRANSFORMER
GEN	GEN	GENERATOR
		LIGHT POLE
		POWER POLE
		GAS VALVE
		GAS METER
		FIBER OPTIC MANHOLE
		UTILITY TUNNEL
		INSULATION
		SAND WEDGE (19/C601)

APPROVED

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are approved by the Building Official only for conformance with local ordinances and do not relieve the owner or his agent of responsibility for compliance with the State Building Code. Approval does not authorize any violation of State Building Code. These plans shall be available for all requested inspections.

Approved by Paul Boehne on 2024-01-24
File #: 23-0709851 Type: Permit Status: Approved
AVERIST Multiple Addresses

RYAN

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OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA

JOB NO.	DATE
701480	03.01.2024

ISSUE RECORD

ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
2	06/22/2023	50% SCHEMATIC DESIGN
3	09/01/2023	100% SCHEMATIC DESIGN
4	11/03/2023	UI CD SET - BULL 1
5	11/17/2023	50% DESIGN DEVELOPMENT
6	12/11/2023	ARENA BID PKG-3
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

UTILITY PLAN - SW

C503

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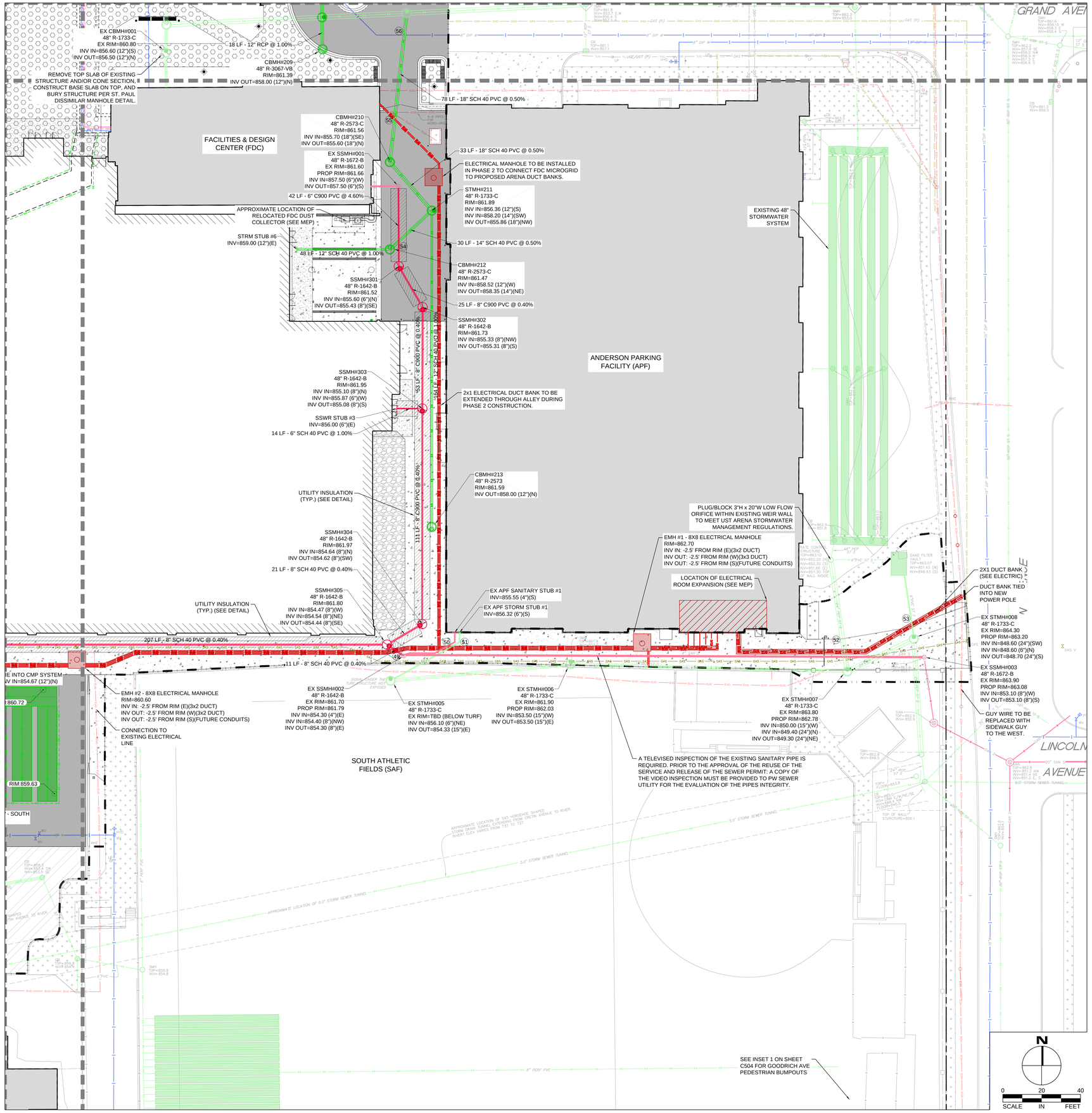

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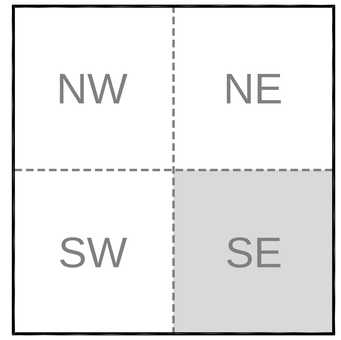
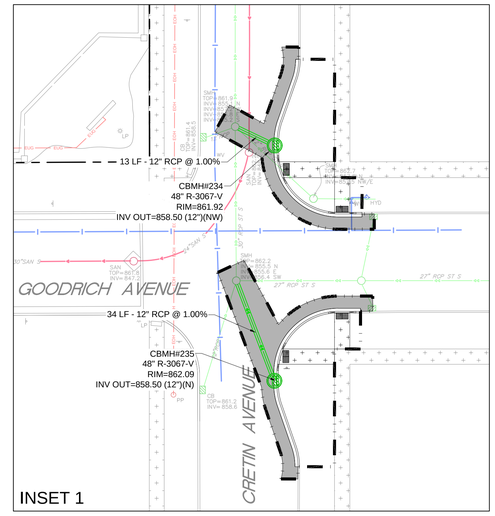


UTILITY CROSSING SCHEDULE

UTILITY CROSSING NUMBER	STORM SEWER TOP/BOT OF PIPE ELEV.	SANITARY SEWER TOP/BOT OF PIPE ELEV.	WATERMAIN TOP/BOT OF PIPE ELEV.	STEAM TOP/BOT OF PIPE ELEV.	ELECTRIC TOP/BOT OF DUCT BANK ELEV.	UTILITY TUNNELS TOP/BOT OF FLOORS	EXISTING UTILITIES TOP/BOT OF PIPE ELEV.	UTILITY SEPARATION
49	---	855.12' (TOP)	---	---	857.61' (BOT)	---	---	2.49'
50	---	---	---	---	857.56' (BOT)	---	855.53' (TOP)*	2.03'
51	---	---	---	---	857.59' (BOT)	---	856.80' (TOP)*	0.79'
52	---	---	---	---	859.67' (BOT)	---	852.26' (TOP)*	7.41'
53	---	---	---	---	859.85' (BOT)	---	849.38' (TOP)*	10.47'
54	858.28' (BOT)	856.72' (TOP)	---	---	---	---	---	1.56'
55	856.94' (TOP)	---	---	---	859.22' (BOT)	---	---	2.28'

* CROSSING AT EXISTING UTILITY, FIELD VERIFY DEPTH
** 3' MINIMUM SEPARATION REQUIRED BETWEEN WATERMAIN AND SEWER. LOWER OR RAISE WATERMAIN AT CROSSING TO PROVIDE 3' OF SEPARATION, OR ADD INSULATION IF 3' SEPARATION IS NOT ACHIEVABLE (SEE DETAIL 7/C602).

NOTE: UTILITY TUNNEL DEPTHS TO BE FIELD VERIFIED



LEGEND:

EXISTING	PROPOSED	
		STORM SEWER PIPE
		SOLID DRAINTILE
		PERFORATED DRAINTILE
		STORM INLET
		STORM MANHOLE
		STORM CLEANOUT
		SECONDARY OVERFLOW DRAIN
		SANITARY SEWER PIPE
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		SANITARY SEWER CLEANOUT
		WATER MAIN
		HYDRANT
		GATE VALVE
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		IRRIGATION
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		ELECTRIC MANHOLE
		ELECTRIC METER
		TRANSFORMER
		LIGHT POLES
		POWER POLE
		GAS VALVE
		GAS METER
		INSULATION
		SAND WEDGE (19/C601)

APPROVED

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are Approved as Noted. Approval does not prevent the Authority Having Jurisdiction from requiring corrections of errors in the plans, or from revoking any certificate of approval when violations of any law or ordinance are found. Approval of these plans does not relieve the applicant of responsibility for compliance with all St. Paul City codes, ordinances and policies. Plans are Approved for Permit Only. Approval of these plans does not relieve the applicant of responsibility for noncompliance with any applicable code, ordinance or policy. Approval of these plans is valid for one year from the date of approval. Work shall not be covered prior to final inspection and approval. These plans shall be available for all required inspections.

File # 23-SUMM-AVE-2260 Approved 03/01/2024

RYAN

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OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA
JOB NO.	**DATE**
701480	03.01.2024

ISSUE RECORD		
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8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

UTILITY PLAN - SE

C504

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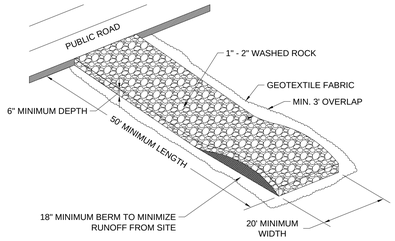
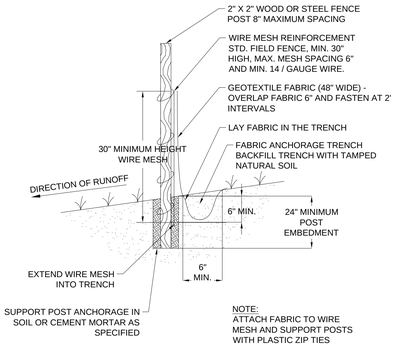


FILTER FABRIC SHALL BE PLACED UNDER ROCK TO STOP SILT MIGRATION THROUGH ROCK.

ROCK CONSTRUCTION ENTRANCE

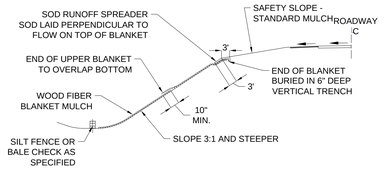
1 C600 NTS



NOTE:
ATTACH FABRIC TO WIRE MESH AND SUPPORT POSTS WITH PLASTIC ZIP TIES

SILT FENCE - HEAVY DUTY

2 C600 NTS



EROSION CONTROL BLANKET INSTALLATION ON AN INSLOPE (WHEN REQUIRED)

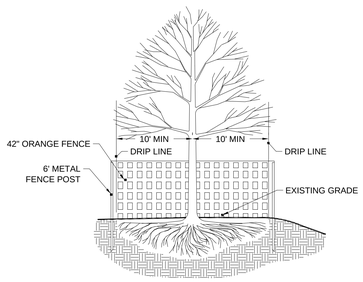
CATEGORY	SLOPE	VELOCITY
1	FLAT	-
2	3:1	< 5.0 fps
3	3:1	< 6.5 fps
4	2:1	< 7.0 fps

CATEGORY	ACCEPTABLE TYPES
1	STRAW RD 1S, WOOD FIBER RD 1S
2	STRAW 1S, WOOD FIBER 1S
3	STRAW 2S, WOOD FIBER 2S
4	STRAW/COCONUT 2S, WOOD FIBER HV 2S

THE LETTERING DESIGNATION SHALL BE DEFINED AS FOLLOWS:
1S - NETTING ON ONE SIDE
RD - RAPIDLY DEGRADABLE
2S - NETTING ON TWO SIDES
HV - HIGH VELOCITY

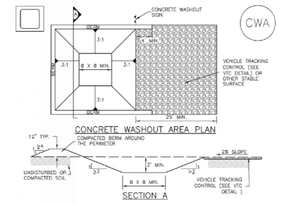
EROSION CONTROL BLANKET

3 C600 NTS



TREE PROTECTION FENCE

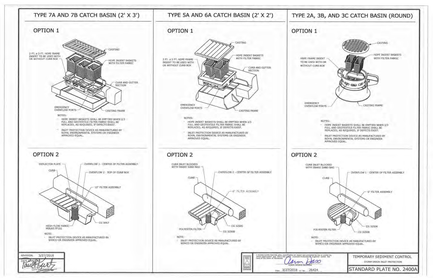
4 C600 NTS



CWA-1, CONCRETE WASHOUT AREA

NON-PORTABLE CONCRETE WASHOUT

5 C600 NTS



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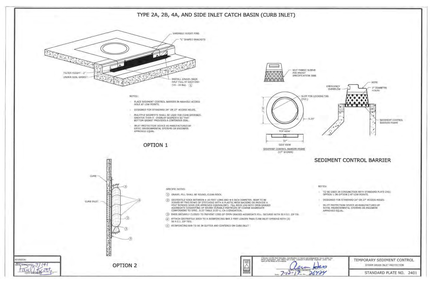

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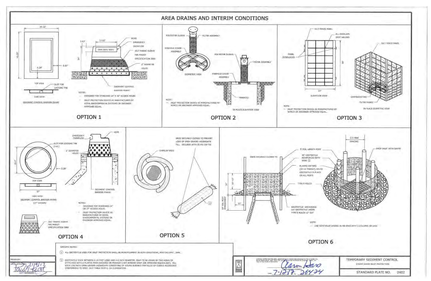

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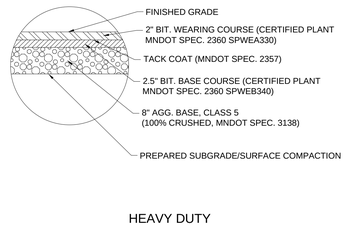
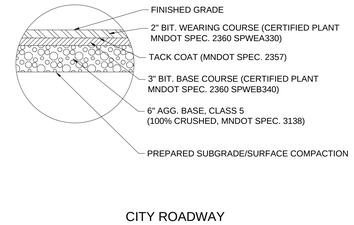


HEAVY DUTY

NOTES:
SECTION AND MIX DESIGN PER GEOTECHNICAL RECOMMENDATIONS

TYPICAL BITUMINOUS PAVEMENT SECTION

9 C600 NTS



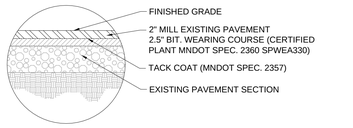
CITY ROADWAY

NOTES:
MIX DESIGN PER GEOTECHNICAL RECOMMENDATIONS

SECTION DESIGN PER CITY STAFF DIRECTION

TYPICAL BITUMINOUS PAVEMENT SECTION

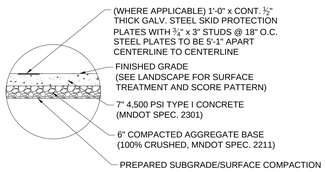
10 C600 NTS



NOTES:
SECTION AND MIX DESIGN PER GEOTECHNICAL RECOMMENDATIONS

TYPICAL BITUMINOUS MILL AND OVERLAY PAVEMENT SECTION

11 C600 NTS



NOTES:
CONCRETE SHALL BE REINFORCED WITH DEFORMED NO. 4 REINFORCING BARS SPACED AT 12" O.C. IN EACH DIRECTION. TIE ALL INTERSECTIONS TO PREVENT SHIFTING AND MAINTAIN A 2" MINIMUM COVER FROM REINFORCING TO CONCRETE EDGE

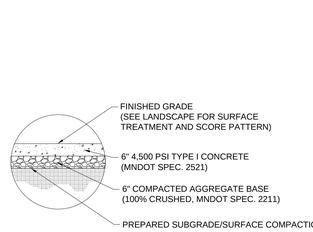
SAWED OR FORMED CONTROL JOINTS SHOULD BE INCLUDED FOR EACH 225 SQUARE FEET OF AREA OR LESS (15 FEET BY 15 FEET). SEE LANDSCAPE PLANS FOR JOINTING PATTERN.

SAW CUTS SHOULD NOT CUT THROUGH THE REINFORCING STEEL AND DOWELS SHOULD BE UTILIZED AT FORMED AND/OR COLD JOINTS.

SECTION AND MIX DESIGN PER GEOTECHNICAL RECOMMENDATIONS.

CONCRETE PAVEMENT SECTION

12 C600 NTS



NOTES:
2% MAX CROSS SLOPE IN PATH OF TRAVEL

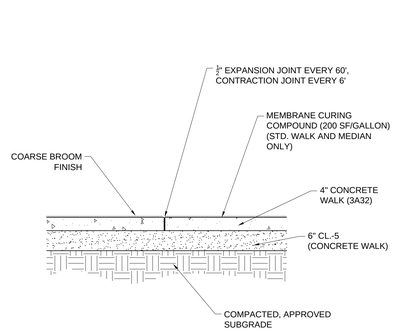
PROVIDE CONTRACTION JOINTS AT 5' SPACING (TYP.). SEE LANDSCAPE PLANS FOR JOINTING PATTERN.

PROVIDE EXPANSION JOINTS EVERY 40' OR LESS

SECTION AND MIX DESIGN PER UST STANDARDS

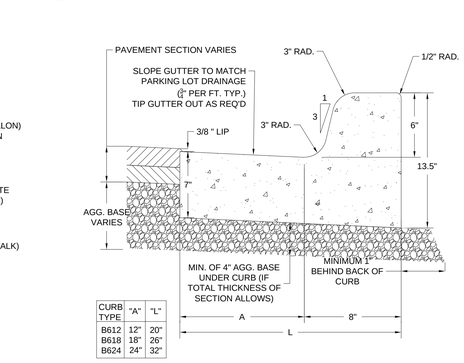
CONCRETE SIDEWALK SECTION

13 C600 NTS



TEMPORARY CONCRETE SIDEWALK

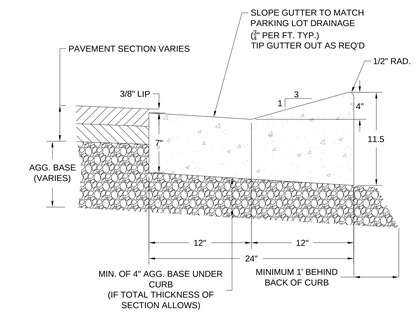
14 C600 NTS



CURB TYPE	"A"	"L"
B612	12"	20"
B618	18"	26"
B624	24"	32"

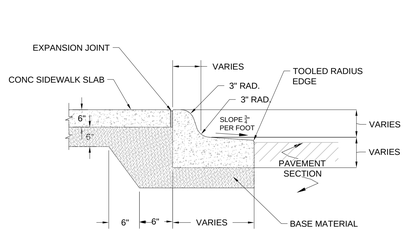
B6 STYLE CONCRETE CURB AND GUTTER

15 C600 NTS



D412 CONCRETE CURB AND GUTTER

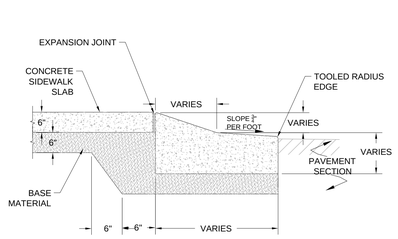
16 C600 NTS



NOTE:
SEE ARCHITECTURAL PLANS FOR DETAILS ON DOWEL PINS, EXPANSION JOINTS, SIDEWALK SLAB AND SIDEWALK BASE MATERIAL.

SIDEWALK AT B612 CURB

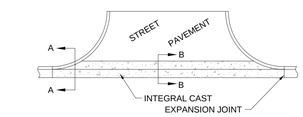
17 C600 NTS



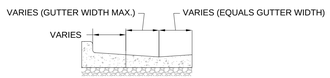
NOTE:
SEE ARCHITECTURAL PLANS FOR DETAILS ON DOWEL PINS, EXPANSION JOINTS, SIDEWALK SLAB AND SIDEWALK BASE MATERIAL.

SIDEWALK AT D412 CURB

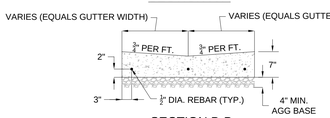
18 C600 NTS



PLAN VIEW



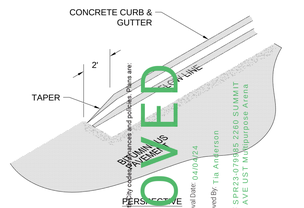
SECTION A-A



SECTION B-B

CONCRETE VALLEY GUTTER

19 C600 NTS



NOTES:
TAPER LENGTH MAY VARY IF SIDEWALK IS ADJACENT TO BACK OF CURB TO MAINTAIN ACCESSIBLE SLOPES

CURB TAPER

20 C600 NTS

APPROVED
The plans have been reviewed in accordance with City codes, ordinances and policies. Plans are:
APPROVED AS NOTED
DENIED
Approval Date: 04/04/24
Approved By: Tim Anderson
File #: SPR23-070MS 2260 SUMMIT AVE UST Multipurpose Arena
The approval of these plans by the City of Saint Paul does not authorize the noncompliance with local ordinances, nor does it waive the requirement for final inspection and approval.
These plans shall be available for requested inspection.

RYAN

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WWW.RYANCOMPANIES.COM

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WWW.CRAWFORDARCH.COM

OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO. 42340
DATE 11/03/2023

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DRAWN BY ZAT
CHECKED BY ATA
JOB NO. 701480
DATE 03.01.2024

ISSUE RECORD

ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
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7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

CIVIL DETAILS 1

C600

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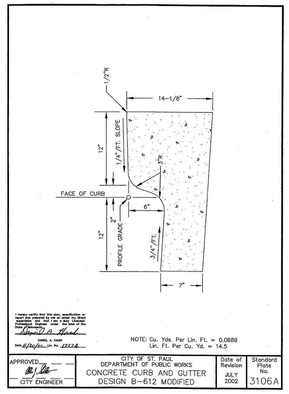
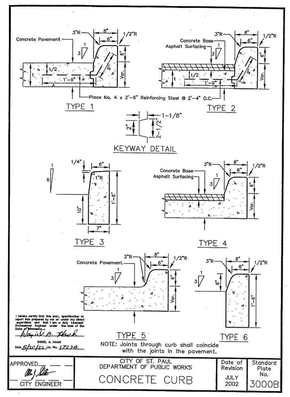


1 C601 NTS



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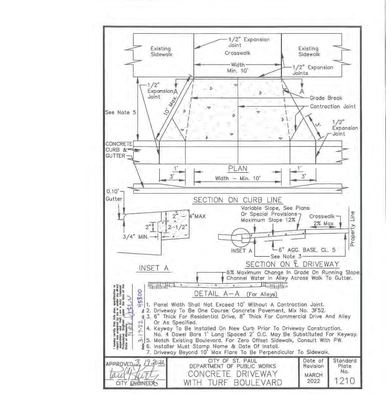

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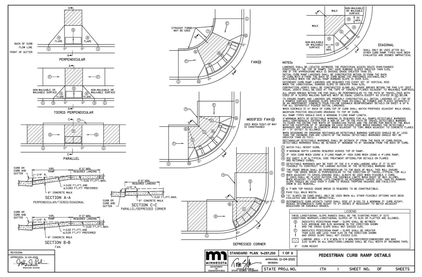

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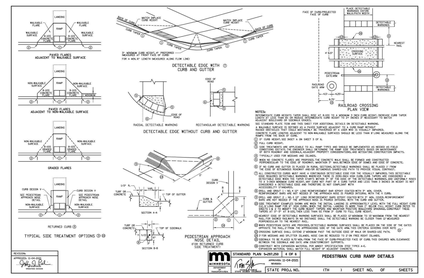

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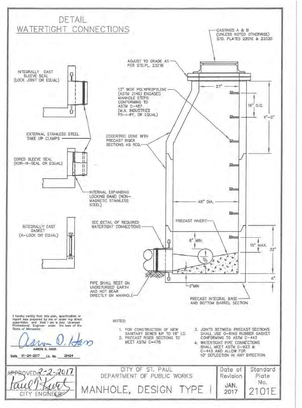

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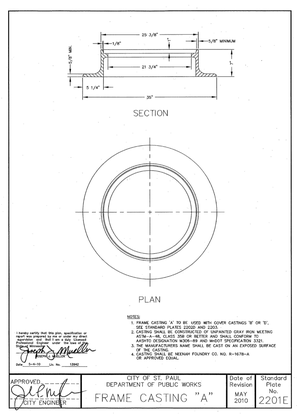

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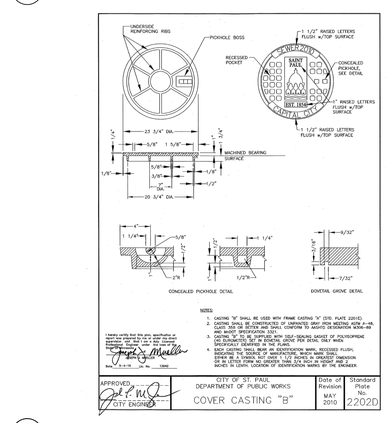

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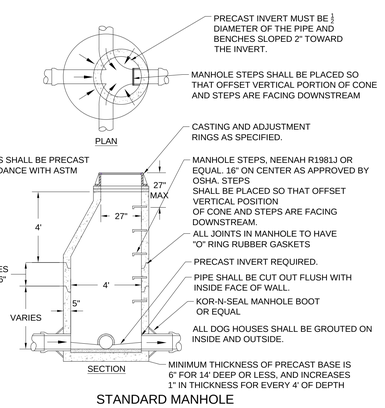
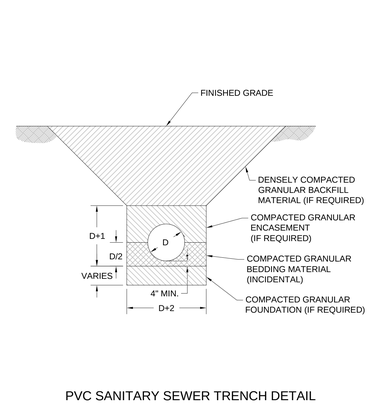


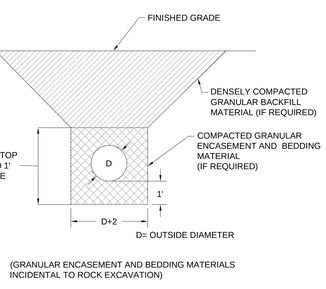
STANDARD MANHOLE

9 C601 NTS



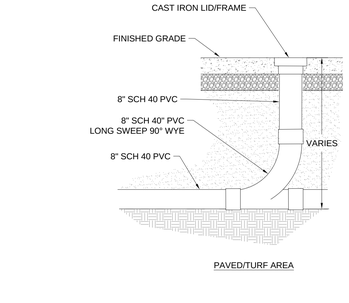
PVC SANITARY SEWER TRENCH DETAIL

10 C601 NTS



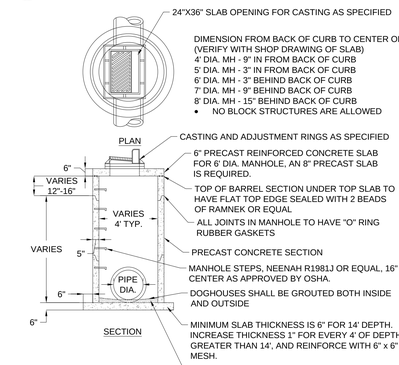
SANITARY SEWER TRENCH ROCK

11 C601 NTS



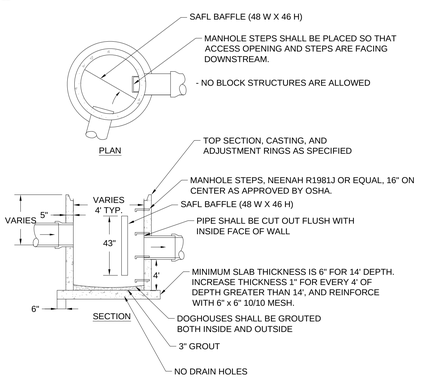
SANITARY SEWER CLEANOUT (SSWR STUB #2)

12 C601 NTS



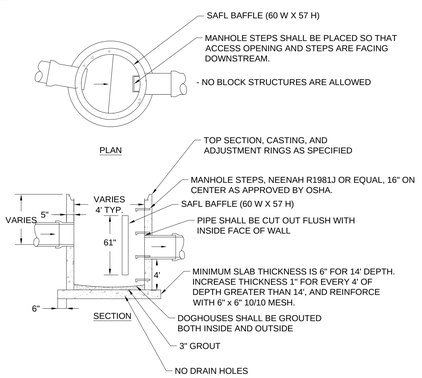
CATCHBASIN MANHOLE WITH RECTANGULAR OPENING

13 C601 NTS



NORTH SUMP MANHOLE

14 C601 NTS



SOUTH SUMP MANHOLE

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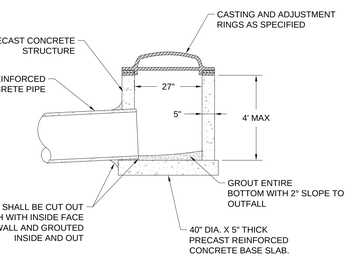
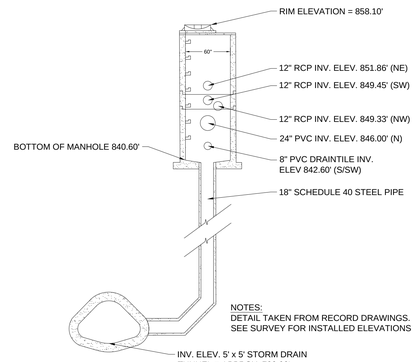


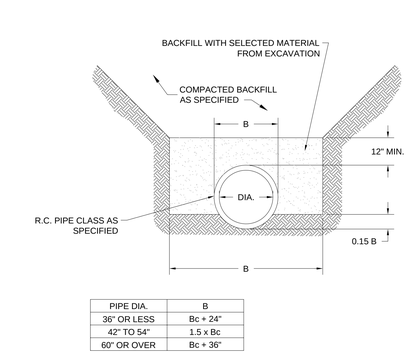
PRECAST 27" SHALLOW CATCH BASIN

16 C601 NTS



EXISTING STORM SEWER DROP-SHAFT

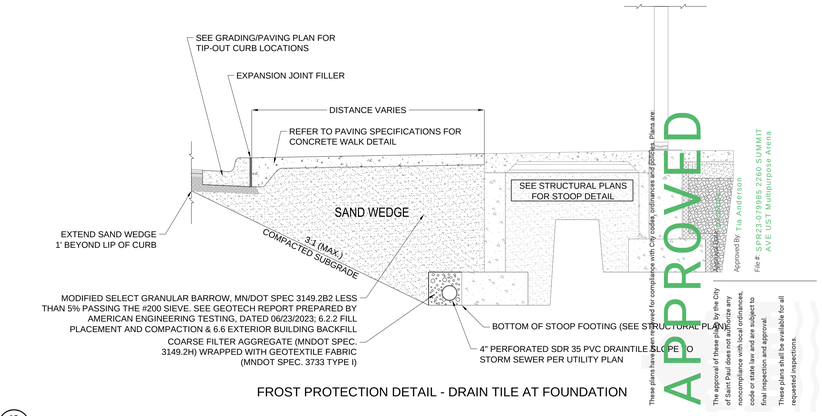
17 C601 NTS



PIPE DIA.	B
36" OR LESS	Bc + 24"
42" TO 54"	1.5 x Bc
60" OR OVER	Bc + 36"

TRENCH DETAIL: R.C. STORM SEWER, CLASS "C" BEDDING

18 C601 NTS



FROST PROTECTION DETAIL - DRAIN TILE AT FOUNDATION

19 C601 NTS

These plans have been approved for compliance with City codes, ordinances and policies. Plans are...
APPROVED
The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, nor does it waive the requirement for final inspection and approval.
These plans shall be available for all requested inspections.
Approved By Tina Anderson
File # SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

C:\Users\zahor\DCACCDocs\Ryan Companies\701480 UST Athletics Hockey Arena\Project Files\Ryan Civil\02 Sheet Files\701480 - C600 CIVIL DETAILS.dwg

RYAN A+E, INC.
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CRAWFORD ARCHITECTS, INC.
1801 McGee Street, Suite 200
Kansas City, MO 66210
816-421-2640 tel
816-421-2650 fax
WWW.CRAWFORDARCH.COM

OWNER

University of St. Thomas
Minneapolis, MN

CONSULTANTS

IMEG
MEYER BORGMAN JOHNSON
STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO. 42340
DATE 11/03/2023

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DRAWN BY ZAT
CHECKED BY ATA
JOB NO. 701480
DATE 03.01.2024

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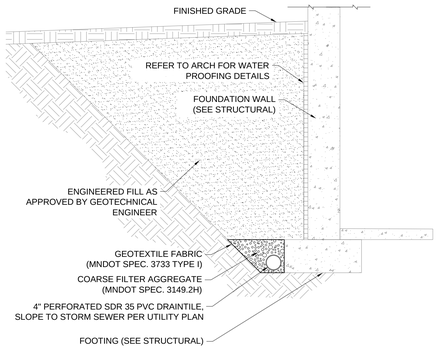
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

BUILDING PERMIT SET
03/01/2024

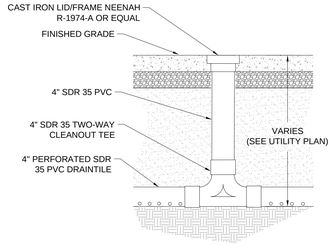
CIVIL DETAILS 2

C601



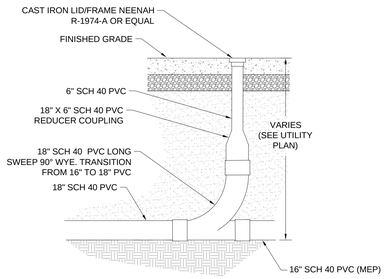
DRAIN TILE AT FOUNDATION WALL

1 / C602 NTS



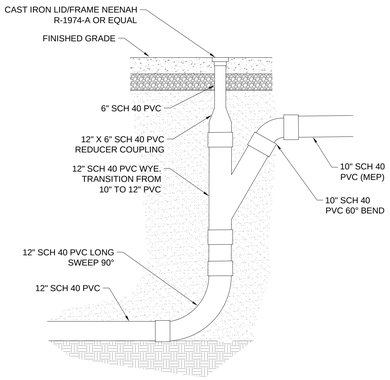
DRAIN TILE TWO-WAY CLEANOUT

2 / C602 NTS



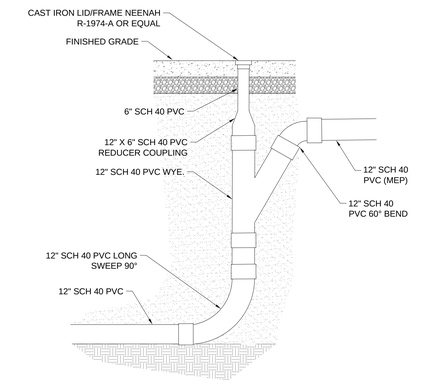
ROOF DRAIN CLEANOUT (STRM STUB #1)

3 / C602 NTS



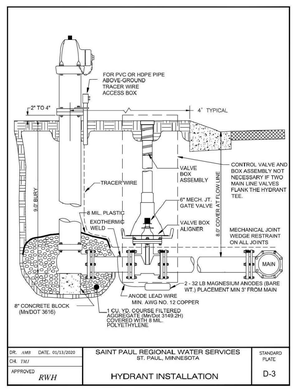
ROOF DRAIN CLEANOUT (STRM STUB #3)

4 / C602 NTS



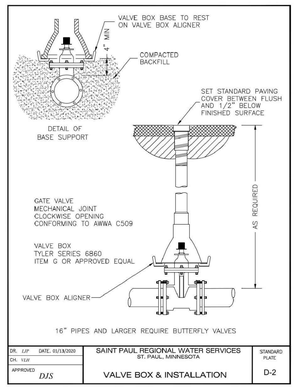
ROOF DRAIN CLEANOUT (STRM STUB #4)

5 / C602 NTS



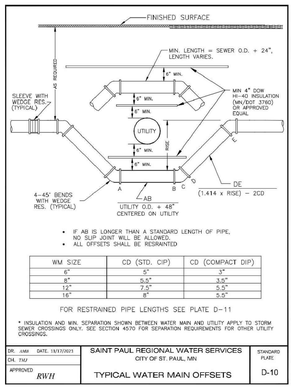
DR. AMR DATE: 01/31/2020	SAINT PAUL REGIONAL WATER SERVICES ST. PAUL, MINNESOTA	STANDARD PLATE
CK. TMJ		
APPROVED RWH	HYDRANT INSTALLATION	D-3

6 / C602 NTS



DR. LLP DATE: 01/13/2020	SAINT PAUL REGIONAL WATER SERVICES CITY OF ST. PAUL, MINNESOTA	STANDARD PLATE
CK. TMJ		
APPROVED DJS	VALVE BOX & INSTALLATION	D-2

7 / C602 NTS



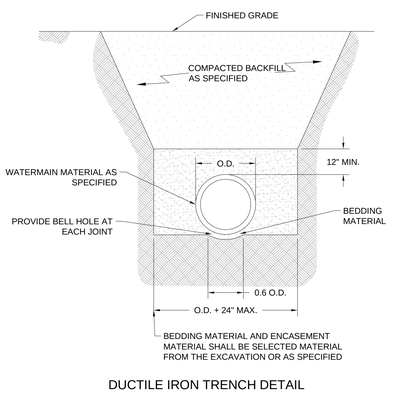
WM SIZE	CD (STD. CIP)	CD (COMPACT DIP)
6"	5"	3"
8"	5.5"	3.5"
12"	7.5"	5.5"
16"	8"	5.5"

FOR RESTRAINED PIPE LENGTHS SEE PLATE D-11

* INSULATION AND MIN. SEPARATION SHOWN BETWEEN WATER MAIN AND UTILITY APPLY TO STORM SEWER CROSSINGS ONLY. SEE SECTION 4570 FOR SEPARATION REQUIREMENTS FOR OTHER UTILITY CROSSINGS.

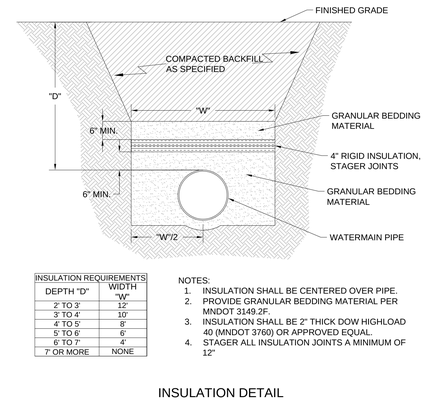
DR. AMR DATE: 10/17/2021	SAINT PAUL REGIONAL WATER SERVICES CITY OF ST. PAUL, MN	STANDARD PLATE
CK. TMJ		
APPROVED RWH	TYPICAL WATER MAIN OFFSETS	D-10

8 / C602 NTS



DUCTILE IRON TRENCH DETAIL

9 / C602 NTS

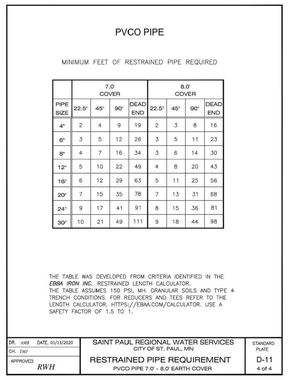


INSULATION REQUIREMENTS	
DEPTH "D"	WIDTH "W"
2' TO 3'	12'
3' TO 4'	10'
4' TO 5'	8'
5' TO 6'	6'
6' TO 7'	4'
7' OR MORE	NONE

NOTES:
1. INSULATION SHALL BE CENTERED OVER PIPE.
2. PROVIDE GRANULAR BEDDING MATERIAL PER MNDOT 3149.2F.
3. INSULATION SHALL BE 2" THICK DOW HIGHLOAD 40 (MNDOT 3760) OR APPROVED EQUAL.
4. STAGER ALL INSULATION JOINTS A MINIMUM OF 12"

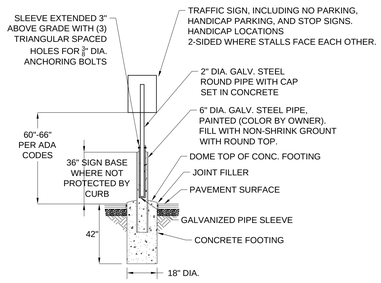
INSULATION DETAIL

10 / C602 NTS



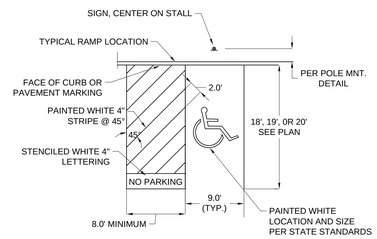
DR. AMR DATE: 01/31/2020	SAINT PAUL REGIONAL WATER SERVICES CITY OF ST. PAUL, MN	STANDARD PLATE
CK. TMJ		
APPROVED RWH	RESTRAINED PIPE REQUIREMENT PVCO PIPE 7.0' - 8.0' EARTH COVER	D-11 4 of 4

11 / C602 NTS



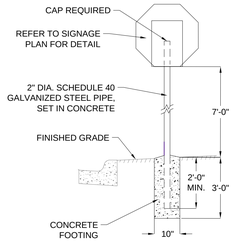
SIGN WITH BOLLARD

12 / C602 NTS



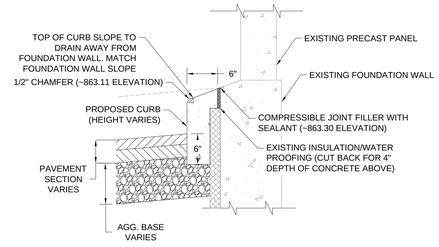
HANDICAP PARKING STALL LAYOUT

13 / C602 NTS



SIGN INSTALLED IN LANDSCAPE AREA

14 / C602 NTS



FOUNDATION WALL CONCRETE CURB

15 / C602 NTS

16 / C602 NTS

17 / C602 NTS

18 / C602 NTS

19 / C602 NTS

20 / C602 NTS

C:\Users\zatton\DCACCDocs\Ryan Companies\701480 UST Athletics Hockey Arena\Project Files\Ryan Civil\02 Sheet Files\701480 - C600 CIVIL DETAILS.dwg

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OWNER

University of St. Thomas
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CONSULTANTS

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STRUCTURAL DESIGN + ENGINEERING

PROJECT INFORMATION

LEE & PENNY ANDERSON MULTIPURPOSE ARENA

2260 SUMMIT AVE ST.
PAUL, MN 55105

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

JARED B. OLSON

REGISTRATION NO.	DATE
42340	11/03/2023

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DRAWN BY	CHECKED BY
ZAT	ATA
JOB NO.	**DATE**
701480	03.01.2024

ISSUE RECORD		
ISSUE #	DATE	DESCRIPTION
1	03/08/2023	CONCEPT DESIGN
2	06/22/2023	50% SCHEMATIC DESIGN
3	09/01/2023	100% SCHEMATIC DESIGN
4	11/03/2023	UI CD SET - BULL 1
5	11/17/2023	50% DESIGN DEVELOPMENT
6	12/11/2023	ARENA BID PKG-3
7	12/18/2023	ARENA BID PKG-2
8	01/19/2024	100% DESIGN DEVELOPMENT
9	03/01/2024	BUILDING PERMIT SET

These plans have been reviewed for compliance with City codes, ordinances and policies. Plans are:

APPROVED

The approval of these plans by the City of Saint Paul does not authorize any noncompliance with local ordinances, nor conceal errors subject to final inspection and approval.

These plans shall be available for all requested inspections.

Approval Date: 04/04/24
Approved By: Tim Anderson
File #: SPR23-079985 2260 SUMMIT AVE UST Multipurpose Arena

BUILDING PERMIT SET
03/01/2024

CIVIL DETAILS 3

C602