

SITE DEVELOPMENT PLANS FOR CLOVER SHOPPING CENTER REDEVELOPMENT

**SECTION 16, TOWNSHIP 27N, RANGE 24W
BLOOMINGTON, MN**

PROJECT TEAM:

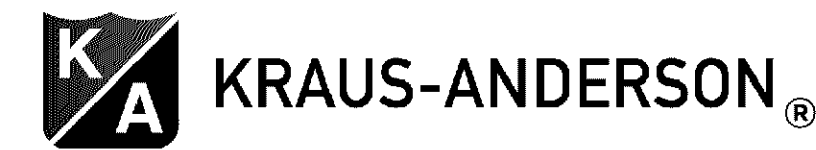
ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.



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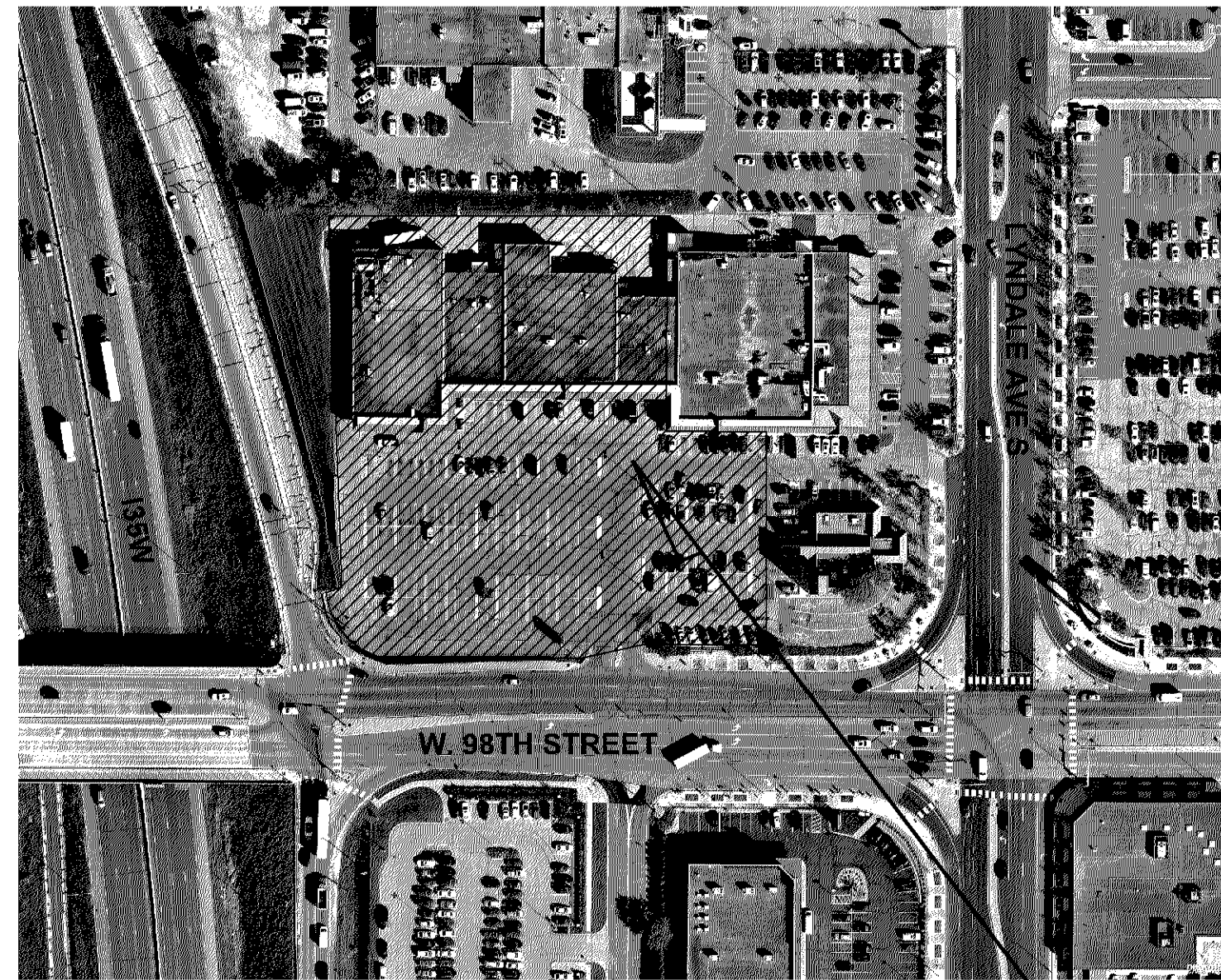
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OWNER / DEVELOPER
KRAUS-ANDERSON DEVELOPMENT

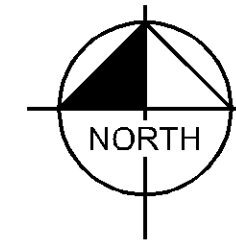


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**VICINITY
N.T.S.**



SITE

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NOTES:

- CONTRACTOR SHALL CONFIRM THAT THE EXISTING CONDITIONS FOR THE SITE MATCH WHAT IS SHOWN ON THE DRAWINGS INCLUDED PRIOR TO CONSTRUCTION.
- IF REPRODUCED, THE SCALES SHOWN ON THESE PLANS ARE BASED ON A ANSI full bleed D (34.00 x 22.00 Inches) SHEET.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICES COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- ALL GENERAL CONTRACTOR WORK TO BE COMPLETED (EARTHWORK, FINAL UTILITIES, AND FINAL GRADING) BY THE MILESTONE DATE IN PROJECT DOCUMENTS.



No.	REVISIONS	DATE	BY

Kimley-Horn
2021 KIMLEY-HORN AND ASSOCIATES, INC.
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THESE PLANS AND SPECIFICATIONS OR REPORTS WERE 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.

JASON D. SCRIMSHAW
MN LIC. NO. XXXXX
DATE: 9/9/2021

KHA PROJECT	160651031
DATE	09/08/2021
SCALE	AS SHOWN
DESIGNED BY	KTI
DRAWN BY	VLE
CHECKED BY	JDS

COVER SHEET

CLOVER SHOPPING CENTER REDEVELOPMENT
PREPARED FOR
KRAUS-ANDERSON DEVELOPMENT
BLOOMINGTON MN

SHEET NUMBER
C000

GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE MN DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROVING AUTHORITIES SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
- THE EXISTING SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL "D" UNLESS OTHERWISE NOTED. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ACSE 38/02, ENTITLED STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF SUBSURFACE QUALITY DATA BY THE F.H.A. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
- ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER DIRECTLY FROM THE TESTING AGENCY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF MN PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
- ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
- ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
- SHOULD CONTRACTOR ENCOUNTER ANY DEBRIS LADEN SOIL, STRUCTURES NOT IDENTIFIED IN THE DOCUMENTS, OR OTHER SOURCE OF POTENTIAL CONTAMINATION, THEY SHALL IMMEDIATELY CONTACT THE ENGINEER AND OWNER.

EROSION CONTROL MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION AS REQUIRED BY ALL JURISDICTIONS UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A CERTIFIED PERSON AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO THE STANDARD SPECIFICATIONS.
- SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.
- THE CONSTRUCTION ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

TYPICAL OWNER/ENGINEER OBSERVATIONS

CONTRACTOR SHALL NOTIFY OWNER AND/OR ENGINEER 48 HOURS IN ADVANCE OF THE FOLLOWING ACTIVITIES:

- PRE-CONSTRUCTION MEETING, SUBGRADE PREPARATION, BASE INSTALLATION ASPHALT INSTALLATION, UNDERGROUND PIPING AND UTILITIES INSTALLATION, INSTALLATION OF STRUCTURES, CHECK VALVES, HYDRANTS, METERS, ETC., SIDEWALK INSTALLATION, CONNECTIONS TO WATER AND SEWER MAINS, TESTS OF UTILITIES

EROSION CONTROL NOTES

- THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF MN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
- SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ON A PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR DISCHARGING SEDIMENT ONTO PUBLIC AREAS SHALL BE PAID BY THE CONTRACTOR.
- TEMPORARY SEEDING OR OTHER APPROVED METHODS OF STABILIZATION SHALL BE INITIATED WITHIN 7 DAYS OF THE LAST DISTURBANCE ON ANY AREA OF THE SITE.
- THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN SHALL BE INITIATED AS SOON AS IS PRACTICABLE.
- ALL STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCRICLING THESE AREAS WITH SOME PROTECTIVE MEASURE WILL BE NECESSARY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING ANY EROSION CONTROL DEVICE WHICH THEY DISTURB. EACH CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES IN THE ESTABLISHED EROSION CONTROL MEASURES THAT MAY LEAD TO UNAUTHORIZED DISCHARGE OR STORM WATER POLLUTION, SEDIMENTATION, OR OTHER POLLUTANTS. UNAUTHORIZED POLLUTANTS INCLUDE (BUT ARE NOT LIMITED TO) EXCESS CONCRETE DUMPING OR CONCRETE RESIDUE, PAINTS, SOLVENTS, GREASES, FUEL AND LUBRICANT OIL, PESTICIDES, AND ANY SOLID WASTE MATERIALS.
- EROSION CONTROL DEVICES SHOWN ON THESE PLANS SHALL BE INSTALLED PRIOR TO THE START OF LAND-DISTURBING ACTIVITIES ON THE PROJECT.
- ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THIS PROJECT. CHANGES ARE TO BE APPROVED BEFORE CONSTRUCTION BY THE DESIGN ENGINEER AND THE CITY OF BLOOMINGTON ENGINEERING DIVISION.
- IF THE EROSION CONTROL PLAN AS APPROVED CANNOT CONTROL EROSION AND OFF-SITE SEDIMENTATION FROM THE PROJECT, THE EROSION CONTROL PLAN WILL HAVE TO BE REVISED AND/OR ADDITIONAL EROSION CONTROL DEVICES WILL BE REQUIRED ON SITE. ANY REVISIONS TO THE EROSION CONTROL PLAN MADE BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER.

PAVING AND STRIPING NOTES

- ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR MNDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AND CITY STANDARDS.
- CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, ROADWAY LANES, PARKING STALLS, ACCESSIBLE PARKING SYMBOLS, ACCESS AISLES, STOP BARS AND SIGNS, AND MISCELLANEOUS STRIPING WITHIN THE PARKING LOT AS SHOWN ON THE PLANS.
- ALL EXPANSION JOINTS SHALL EXTEND THROUGH THE CURB.
- THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET.
- ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.
- THE MATERIALS AND PROPERTIES OF ALL CONCRETE SHALL MEET THE APPLICABLE REQUIREMENTS IN THE A.C.I. (AMERICAN CONCRETE INSTITUTE) MANUAL OF CONCRETE PRACTICE.
- CONTRACTOR SHALL APPLY A SECOND COATING OVER ALL PAVEMENT MARKINGS PRIOR TO ACCEPTANCE BY OWNER FOLLOWED BY A COAT OF GLASS BEADS AS APPLICABLE PER THE PROJECT DOCUMENTS.
- ANY EXISTING PAVEMENT, CURBS AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND OWNER.
- BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY SUITABLE ACCESSIBLE ROUTES (PER A.D.A). GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO CURRENT ADA STATE/NATIONAL STANDARDS. IN NO CASE SHALL ACCESSIBLE RAMP SLOPES EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2%. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5%. IN NO CASE SHALL ACCESSIBLE PARKING STALLS OR AISLES EXCEED 2% (1 5% TARGET) IN ALL DIRECTIONS. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANCE ISSUES.
- MAXIMUM JOINT SPACING IS TWICE THE DEPTH OF THE CONCRETE PAVEMENT IN FEET.

GRADING AND DRAINAGE NOTES

- GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL ADJUST BMP'S AS NECESSARY AND REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
- CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS SO THAT SURFACE RUNOFF WILL DRAIN BY GRAVITY TO NEW OR EXISTING DRAINAGE OUTLETS. CONTRACTOR SHALL ENSURE NO PONDING OCCURS IN PAVED AREAS AND SHALL NOTIFY ENGINEER IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT OR UTILITIES.
- CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION. EXISTING CASTINGS AND STRUCTURES TO REMAIN SHALL BE ADJUSTED TO MATCH THE PROPOSED FINISHED GRADES.
- BACKFILL FOR UTILITY LINES SHALL BE PLACED PER DETAILS, STANDARDS, AND SPECIFICATIONS SO THAT THE UTILITY WILL BE STABLE. WHERE UTILITY LINES CROSS THE PARKING LOT, THE TOP 6 INCHES SHALL BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHALL BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THAT UNDESIRABLE FILL IS NOT USED.
- CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF 4" OF TOPSOIL AT COMPLETION OF WORK. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
- AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT AREAS FOR EVIDENCE OF PONDING. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORM RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
- WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT FULL DEPTH FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
- THE CONTRACTOR SHALL INSTALL PROTECTION OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
- IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
- FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO MNDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
- THE CONTRACTOR SHALL ENSURE THAT LANDSCAPE ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
- THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS AND MNDOT SPECIFICATION.
- ALL CONCRETE/ASPHALT SHALL BE INSTALLED PER GEOTECH REPORT, CITY OF BLOOMINGTON AND MNDOT SPECIFICATIONS.
- SPOT ELEVATIONS ARE TO FLOWLINE OF CURB UNLESS OTHERWISE NOTED.
- LIMITS OF CONSTRUCTION ARE TO THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED ON THE PLAN.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES, AND SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES THAT OCCUR DURING CONSTRUCTION WITHOUT COMPENSATION.
- BLENDED NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- ALL PROPOSED GRADES ONSITE SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED ON THE PLANS. ANY SLOPES STEEPER THAN 4:1 REQUIRE EROSION AND SEDIMENT CONTROL BLANKET.
- ADHERE TO ALL TERMS AND CONDITIONS AS NECESSARY IN THE GENERAL N.P.D.E.S. PERMIT AND STORMWATER POLLUTION PREVENTION PLAN FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ENSURE MINIMUM GRADES ARE MET WITHIN PAVED AREAS, 1.2% FOR ASPHALT PAVING AND 0.6% FOR CONCRETE PAVING.

Provide adequate turning radius for all emergency vehicle access lanes.

Hydrant coverage shall be provided within 50' of the FDC and within 150' of all portions of the structure.

Fire alarm and annunciator panels and Knox box locations to be determined by the Fire Prevention Division.

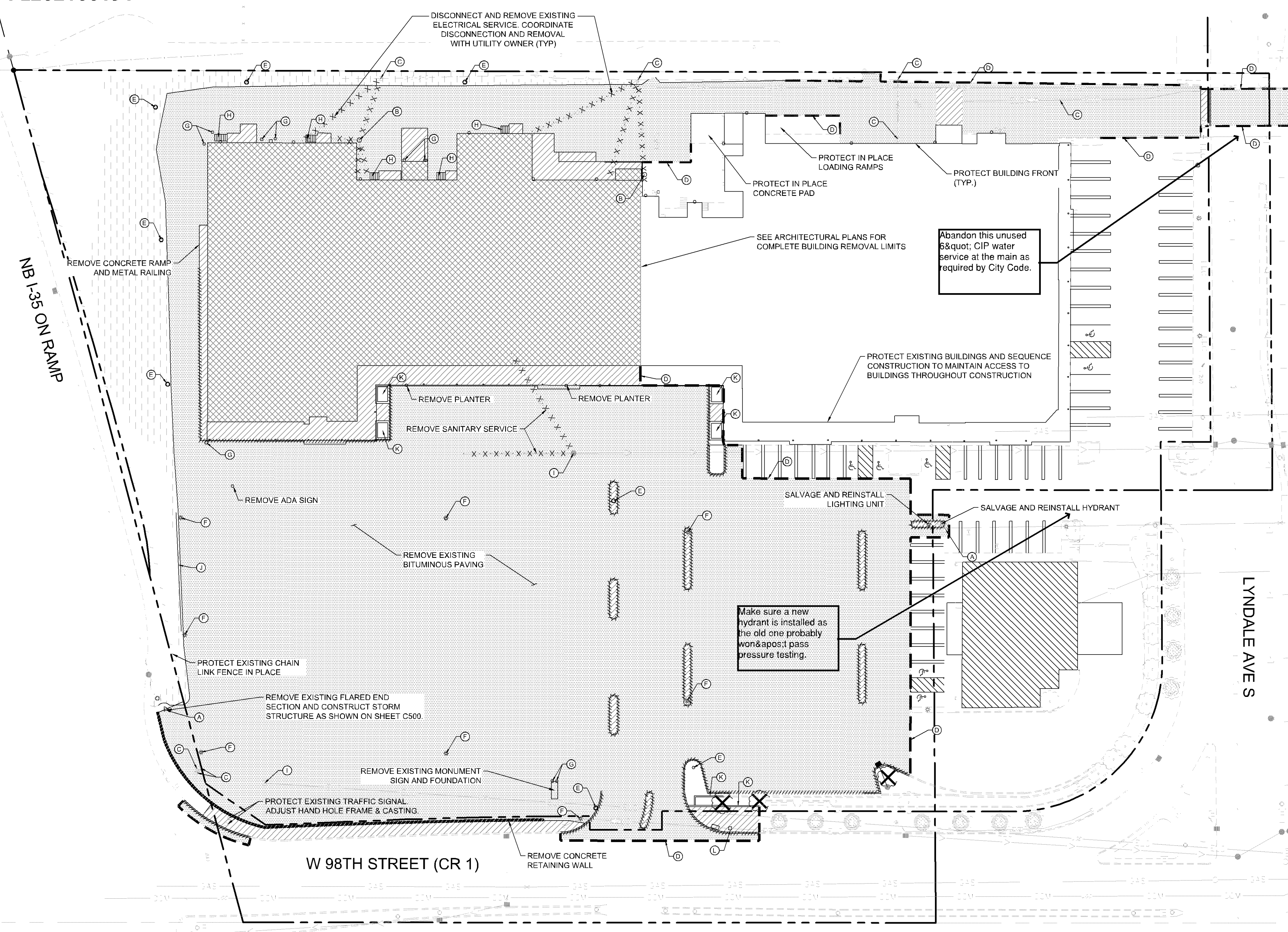
Emergency responder radio coverage meeting the requirements of appendix L in the 2015 MSFC shall be provided throughout the property and within the structures.

Building/property shall be adequately signed for emergency response.

PRELIMINARY - NOT FOR CONSTRUCTION

KRA PROJECT 16051001	DATE 09/08/2021	SCALE AS SHOWN	DESIGNED BY KTI	DRAWN BY VLE	CHECKED BY JDS	LIC. NO. MIN 9892021	DATE 9/8/2021	XREF. XXXXX	REVISIONS	DATE	BY	
												NO.
KRAUS ANDERSON CENTER REDEVELOPMENT		PREPARED FOR KRAUS ANDERSON DEVELOPMENT		BLOOMINGTON		MN		SHEET NUMBER C100				
GENERAL NOTES				KIMLEY HORN & ASSOCIATES, INC. 2021 KIMLEY HORN AND ASSOCIATES, INC. 767 EUBES ST. PAUL, MN 55114 PHONE: 651-452-4187 WWW.KIMLEY-HORN.COM				Kimley»Horn				

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DEMOLITION PLAN NOTES

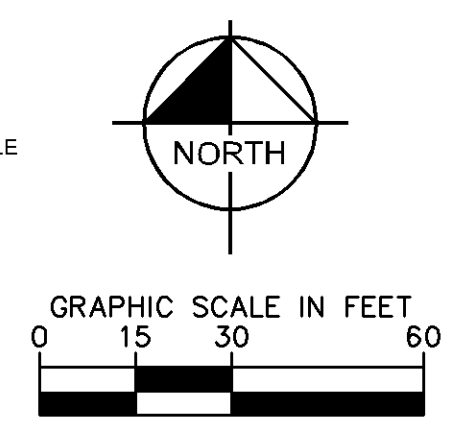
1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVEWAYS, DRIVEWAYS, STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS ON THE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE PROJECT DOCUMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. CONTRACTOR SHALL PROVIDE COPIES OF THE PERMIT AND RECEIPTS OF DISPOSAL OF MATERIALS TO THE OWNER AND OWNERS REPRESENTATIVE.
3. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO ADJACENT PROPERTIES AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE CONSTRUCTION MANAGER AND COORDINATION WITH THE ADJACENT PROPERTIES AND/OR THE CITY.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES WITHIN ALL AREAS OF PROPOSED WORK.
6. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS ANY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PRECEDING WITH THE WORK.
7. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC, AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT-OF-WAY DURING CONSTRUCTION.
8. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE CONSTRUCTION MANAGER. MAINTENANCE OF TRAFFIC CONTROL SHALL BE COORDINATED IN ACCORDANCE WITH BLOOMINGTON, HENNEPIN COUNTY AND MNDOT.
9. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES DURING CONSTRUCTION, AND SHALL NOTIFY ALL PROPERTIES IF ACCESS WILL BE INTERRUPTED OR ALTERED AT ANY TIME DURING CONSTRUCTION.
10. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
11. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
12. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPT. AND THE CITY WATER DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE CITY OF BLOOMINGTON DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
13. REFER TO SURVEY FOR ALL EXISTING INVERT AND RIM ELEVATIONS.
14. ALL UTILITIES SHOWN ARE EXISTING UTILITIES.
15. IN THE EVENT A WELL IS FOUND, THE CONTRACTOR SHALL CONTACT THE ENGINEER AND OWNER IMMEDIATELY. ALL WELLS SHALL BE SEALED BY A LICENSED WELL CONTRACTOR IN ACCORDANCE WITH ALL STATE OF MN REQUIREMENTS.
16. IN THE EVENT THAT UNKNOWN CONTAINERS OR TANKS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE OWNER AND/OR OWNERS REPRESENTATIVE IMMEDIATELY. ALL CONTAINERS SHALL BE DISPOSED OF AT A PERMITTED LANDFILL PER THE PROJECT DOCUMENTS.
17. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY EXISTING DRAIN TILE IS ENCOUNTERED ON SITE. NO ACTIVE DRAIN TILE SHALL BE REMOVED WITHOUT APPROVAL FROM THE ENGINEER.

LEGEND

[Symbol]	PROPERTY LINE
[Symbol]	REMOVE BITUMINOUS SURFACE
[Symbol]	REMOVE CONCRETE SURFACE
[Symbol]	REMOVE BUILDING
[Symbol]	CLEARING & GRUBBING
[Symbol]	FULL DEPTH SAWCUT
[Symbol]	REMOVE TREE
[Symbol]	REMOVE CONCRETE CURB & GUTTER
[Symbol]	REMOVE UTILITY LINES
[Symbol]	FILL & ABANDON UTILITY LINES
[Symbol]	LIMITS OF CONSTRUCTION
[Symbol]	EXISTING OVERHEAD POWER LINE
[Symbol]	EXISTING CHAINLINK FENCE
[Symbol]	EXISTING J-BARRIER
[Symbol]	EXISTING RETAINING WALL
[Symbol]	EXISTING SANITARY SEWER
[Symbol]	EXISTING STORM SEWER
[Symbol]	EXISTING WATERMAIN
[Symbol]	EXISTING GAS MAIN
[Symbol]	EXISTING UNDERGROUND TELEPHONE
[Symbol]	EXISTING UNDERGROUND CABLE
[Symbol]	EXISTING CONTOUR
[Symbol]	EXISTING CURB & GUTTER
[Symbol]	EXISTING SIGN
[Symbol]	EXISTING FLARED END SECTION
[Symbol]	EXISTING STORM MANHOLE
[Symbol]	EXISTING STORM CATCHBASIN
[Symbol]	EXISTING GAS METER
[Symbol]	EXISTING POST INDICATOR VALVE
[Symbol]	EXISTING WELL
[Symbol]	EXISTING AUTOMATIC SPRINKLER
[Symbol]	EXISTING ROOF DRAIN
[Symbol]	EXISTING GATE VALVE
[Symbol]	EXISTING HYDRANT
[Symbol]	EXISTING METAL COVER
[Symbol]	EXISTING ELECTRICAL METER
[Symbol]	EXISTING AIR CONDITIONER
[Symbol]	EXISTING TELEPHONE MANHOLE
[Symbol]	EXISTING CABLE BOX
[Symbol]	EXISTING GUY WIRE
[Symbol]	EXISTING POWER POLE
[Symbol]	EXISTING LIGHT POLE
[Symbol]	EXISTING TREE
[Symbol]	EXISTING TREE LINE

KEYNOTE LEGEND

(A)	REMOVE EXISTING PUBLIC UTILITY
(B)	REMOVE EXISTING PRIVATE UTILITY, COORDINATE WITH PRIVATE UTILITY COMPANY
(C)	EXISTING UTILITY TO REMAIN, PROTECT IN PLACE
(D)	MATCH EXISTING EDGE OF PAVEMENT/ CURB & GUTTER
(E)	REMOVE AND SALVAGE EXISTING SIGN
(F)	REMOVE EXISTING LIGHTING UNIT & CONCRETE BASE
(G)	REMOVE BOLLARD
(H)	REMOVE STEPS
(I)	ADJUST FRAME AND RING CASTING
(J)	REMOVE FENCE
(K)	REMOVE CONCRETE PLANTER
(L)	RELOCATE UTILITY

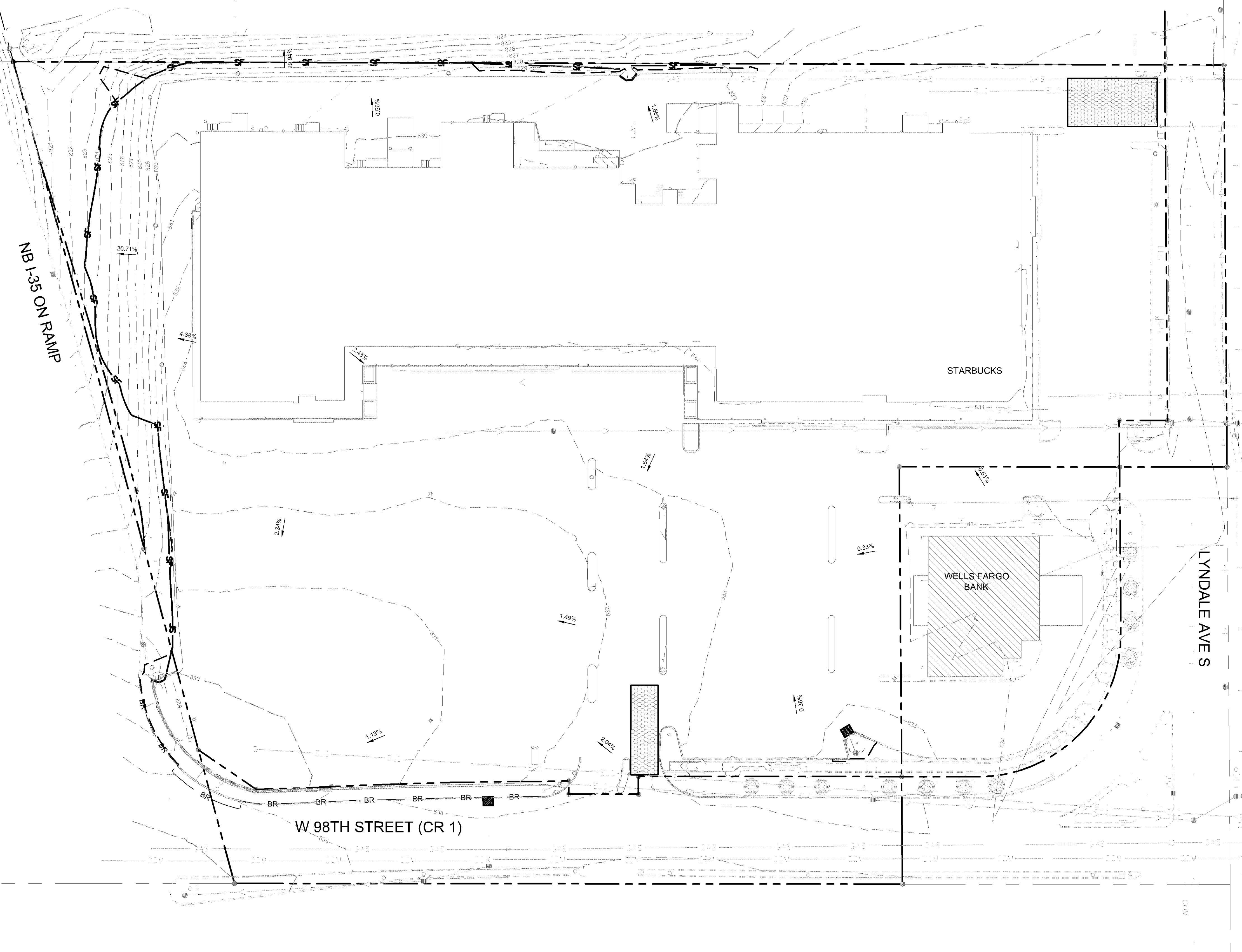


PRELIMINARY - NOT FOR CONSTRUCTION
CLOVER SHOPPING CENTER REDEVELOPMENT
 PREPARED FOR **KRAUS ANDERSON DEVELOPMENT**
 BLOOMINGTON, MN
EXISTING CONDITIONS AND REMOVAL PLAN
 SHEET NUMBER **C200**

DATE	09/08/2021
SCALE	AS SHOWN
DESIGNED BY	KTI
DRAWN BY	VLB
CHECKED BY	JDS

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No.	REVISIONS	DATE	BY



EROSION CONTROL LEGEND

- SILT FENCE
- LIMITS OF DISTURBANCE
- BIOROLL
- ROCK ENTRANCE
- EROSION CONTROL BLANKET
- INLET PROTECTION
- BIOROLL
- SEED/SOD TURF ESTABLISHMENT

EROSION CONTROL PLAN NOTES

1. ALL PERIMETER SILT FENCE AND ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL CONSTRUCT DRAINAGE BASINS PRIOR TO SITE GRADING.
3. THE CONTRACTOR SHALL INSTALL CATCH BASIN EROSION CONTROL MEASURES.
4. WITHIN TWO WEEKS (14 DAYS) OF SITE GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, OR ROCK BASE. REFER TO LANDSCAPE PLANS FOR MATERIALS.
5. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, STATE, AND WATERSHED DISTRICT PERMITS.
6. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF SILT IN FRONT OF SILT FENCES DURING THE DURATION OF THE CONSTRUCTION.
7. ANY EXCESS SEDIMENT IN PROPOSED BASINS SHALL BE REMOVED BY THE CONTRACTOR.
8. REMOVAL ALL EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED.
9. THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS AND SHALL SWEEP ADJACENT STREETS AS NECESSARY IN ACCORDANCE WITH CITY REQUIREMENTS.
10. IF BLOWING DUST BECOMES A NUISANCE, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK TO ALL CONSTRUCTION AREAS.

SEQUENCE OF CONSTRUCTION:

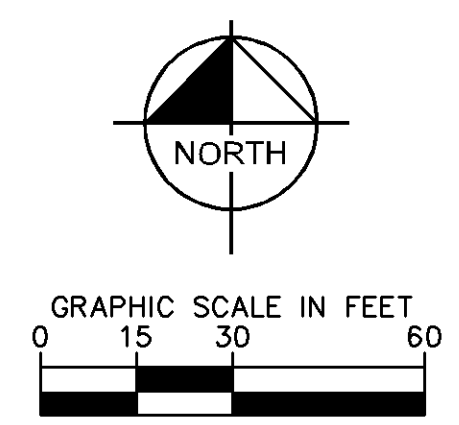
UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

BMP AND EROSION CONTROL INSTALLATION SEQUENCE SHALL BE AS FOLLOWS:

1. INSTALL INLET PROTECTION AT EXISTING STORMWATER CULVERTS.
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (1), CONCRETE WASHOUT PIT (1) AND INSTALL SILT FENCE.
3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
4. CONSTRUCT AND STABILIZE DIVERSIONS AND TEMPORARY SEDIMENT TRAPS.
5. PERFORM CLEARING AND GRUBBING OF THE SITE. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
6. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
7. TEMPORARILY SEED WITH PURE LIVE SEED THROUGHOUT CONSTRUCTION. DISTURBED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE OR AS REQUIRED BY NPDES AND/OR CITY OF BLOOMINGTON GRADING PERMIT.

AREA SUMMARY	
TOTAL DISTURBED AREA	148,316 SF (3.40 AC)
EXISTING IMPERVIOUS AREA	138,775 SF (3.19 AC)
EXISTING PERVIOUS AREA	9,541 SF (0.22 AC)
PROPOSED IMPERVIOUS AREA	133,491 SF (3.06 AC)
PROPOSED PERVIOUS AREA	14,825 SF (0.34 AC)

ESTIMATED BMP QUANTITIES		
SILT FENCE	700±	LF
CONSTRUCTION ENTRANCE	2	EA
INLET PROTECTION	2±	EA
BIOROLL	280	LF



PRELIMINARY - NOT FOR CONSTRUCTION

CLOVER SHOPPING CENTER REDEVELOPMENT
 PREPARED FOR
KRAUS ANDERSON DEVELOPMENT
 BLOOMINGTON, MN

EROSION AND SEDIMENT CONTROL PLAN - PHASE 1

KHA PROJECT	160651001
DATE	09/08/2021
SCALE	AS SHOWN
DESIGNED BY	KTI
DRAWN BY	VLE
CHECKED BY	JDS

DESIGNER'S SEAL AND SIGNATURE REQUIRED HERE

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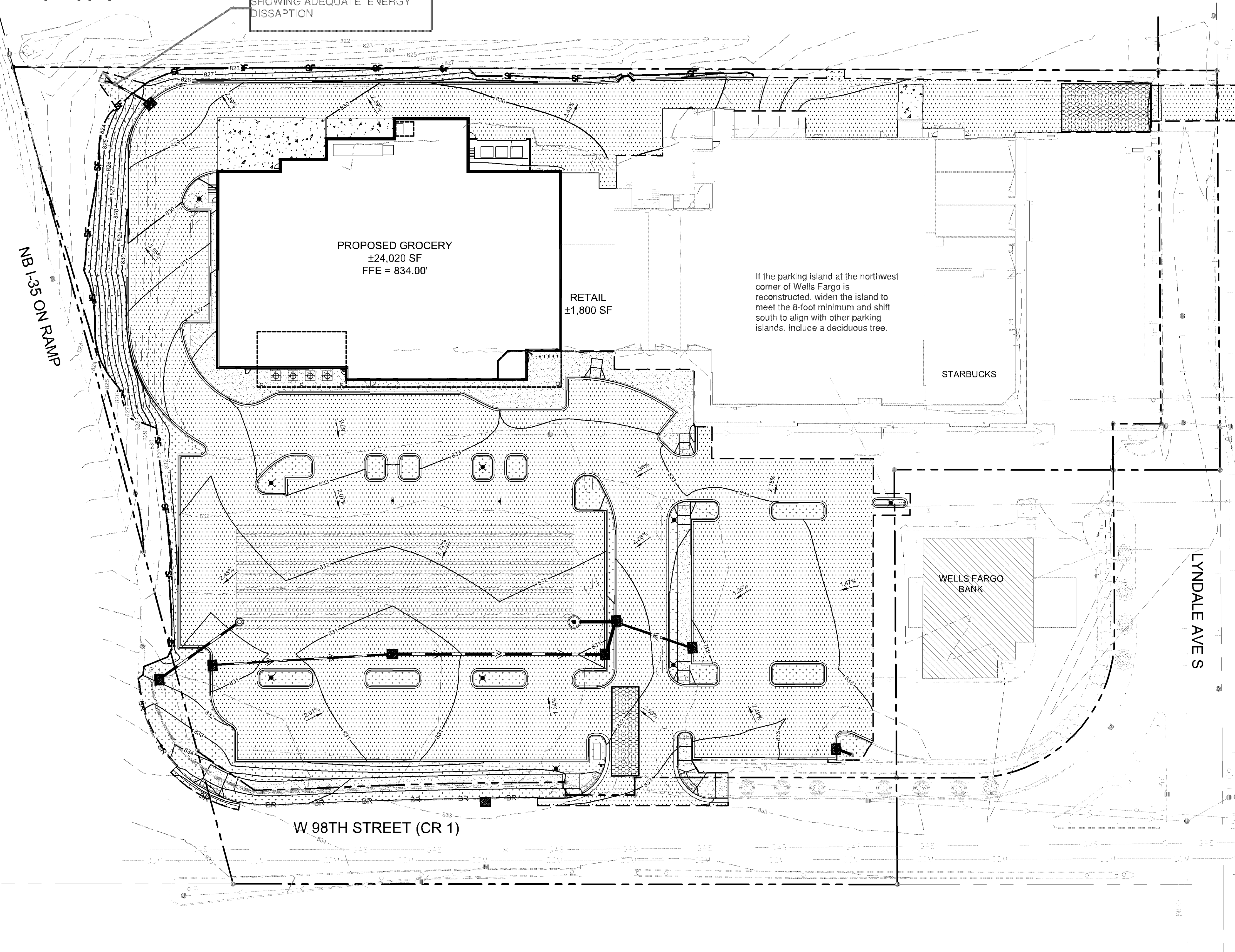
NO.	REVISIONS	DATE	BY

K:\TWC_LDEV\KRAUS_ANDERSON\KRAUS ANDERSON\SHOPPING CENTER3 Design\CAD\Plan\Sheets\C3-EROS PH2 PLAN.dwg September 08, 2021 - 1:43pm

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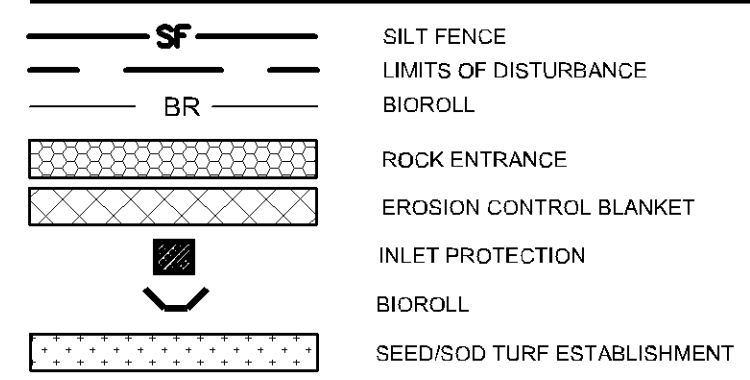
PL202100191

PROVIDE CALCULATIONS SHOWING ADEQUATE ENERGY DISSIPATION



If the parking island at the northwest corner of Wells Fargo is reconstructed, widen the island to meet the 8-foot minimum and shift south to align with other parking islands. Include a deciduous tree.

EROSION CONTROL LEGEND



EROSION CONTROL PLAN NOTES

- ALL PERIMETER SILT FENCE AND ROCK CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONSTRUCT DRAINAGE BASINS PRIOR TO SITE GRADING.
- THE CONTRACTOR SHALL INSTALL CATCH BASIN EROSION CONTROL MEASURES.
- WITHIN TWO WEEKS (14 DAYS) OF SITE GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEED, SOD, OR ROCK BASE. REFER TO LANDSCAPE PLANS FOR MATERIALS.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, STATE, AND WATERSHED DISTRICT PERMITS.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF SILT IN FRONT OF SILT FENCES DURING THE DURATION OF THE CONSTRUCTION.
- ANY EXCESS SEDIMENT IN PROPOSED BASINS SHALL BE REMOVED BY THE CONTRACTOR.
- REMOVAL ALL EROSION CONTROL MEASURES AFTER VEGETATION IS ESTABLISHED.
- THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS AND SHALL SWEEP ADJACENT STREETS AS NECESSARY IN ACCORDANCE WITH CITY REQUIREMENTS.
- IF BLOWING DUST BECOMES A NUISANCE, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK TO ALL CONSTRUCTION AREAS.

SEQUENCE OF CONSTRUCTION:

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC. IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

BMP AND EROSION CONTROL INSTALLATION SEQUENCE SHALL BE AS FOLLOWS:

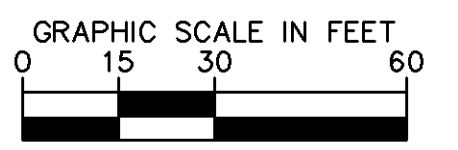
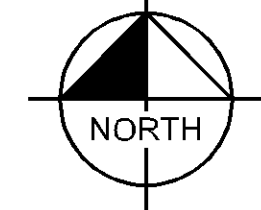
- TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DENUDE AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE.
- INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, UNDERGROUND SYSTEM, CURBS AND GUTTERS.
- INSTALL APPROPRIATE INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
- PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
- PREPARE SITE FOR PAVING.
- PAVE SITE AND INSTALL STRIPING.
- INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
- COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
- OBTAIN CONCURRENCE WITH THE CIVIL ENGINEERING CONSULTANT THAT THE SITE HAS BEEN FULLY STABILIZED THEN:
 - REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES
 - STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF BMPs.

AREA SUMMARY

TOTAL DISTURBED AREA	148,316 SF (3.40 AC)
EXISTING IMPERVIOUS AREA	138,775 SF (3.19 AC)
EXISTING PERVIOUS AREA	9,541 SF (0.22 AC)
PROPOSED IMPERVIOUS AREA	133,491 SF (3.06 AC)
PROPOSED PERVIOUS AREA	14,825 SF (0.34 AC)

ESTIMATED BMP QUANTITIES

SILT FENCE	700±	LF
CONSTRUCTION ENTRANCE	2	EA
INLET PROTECTION	9±	EA
BIOROLL	280	LF



No.	REVISIONS	DATE	BY

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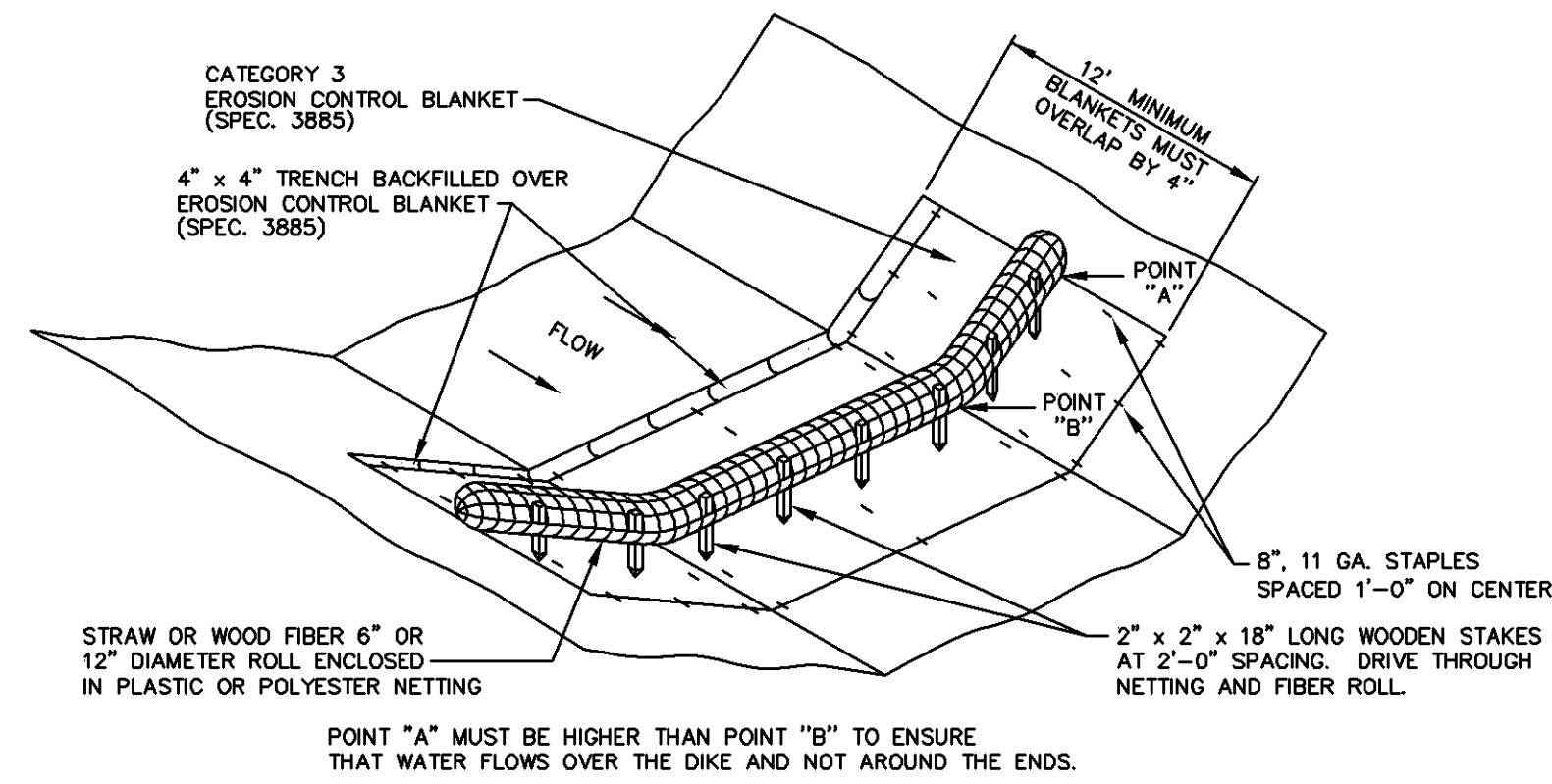
KHA PROJECT	16051001
DATE	09/08/2021
SCALE	AS SHOWN
DESIGNED BY	KTI
DRAWN BY	VLE
CHECKED BY	JDS
DATE	09/20/21
LIC. NO.	XXXX
STATE	MN
PROJECT	992021

EROSION AND SEDIMENT CONTROL PLAN - PHASE 2

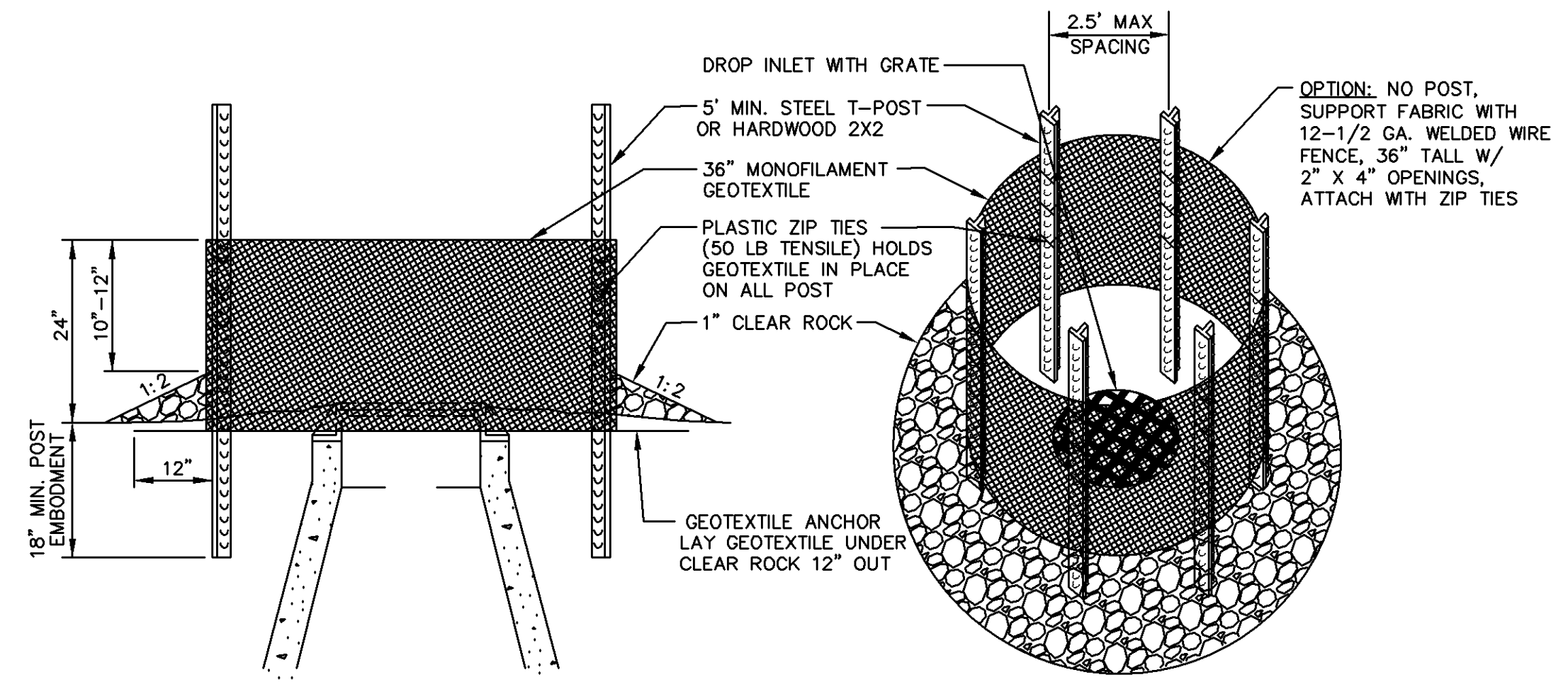
PRELIMINARY - NOT FOR CONSTRUCTION

CLOVER SHOPPING CENTER REDEVELOPMENT
 PREPARED FOR
 KRAUS ANDERSON DEVELOPMENT
 BLOOMINGTON, MN

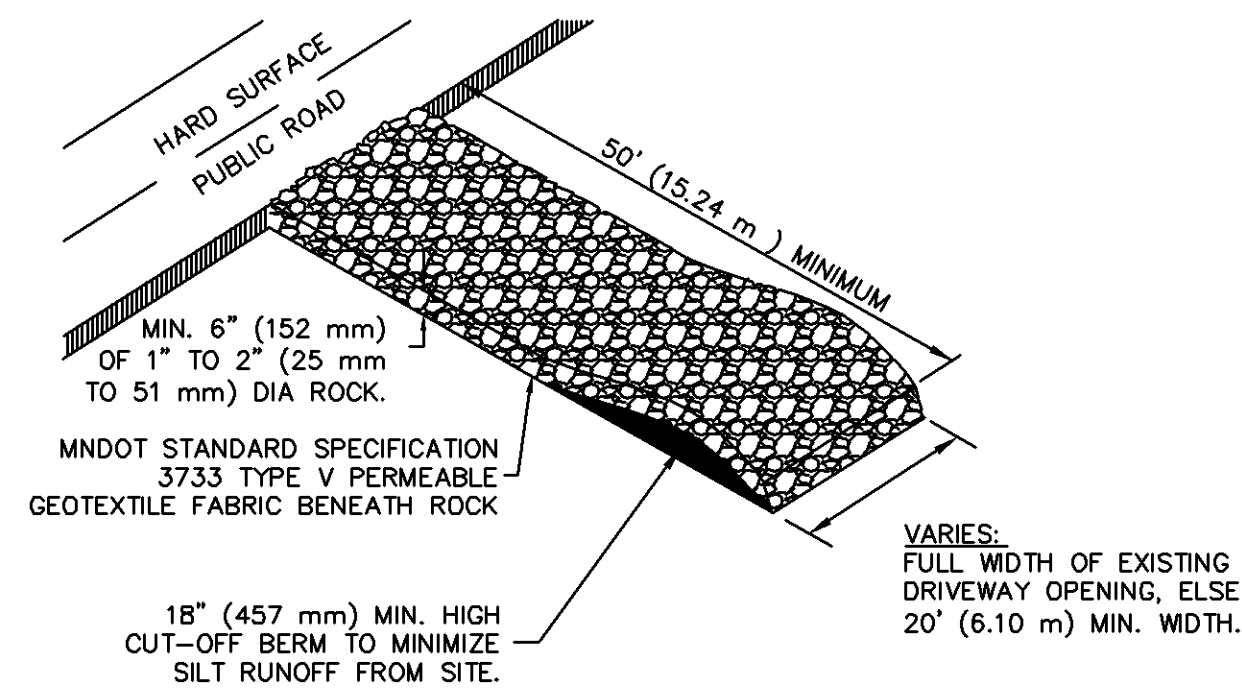
SHEET NUMBER
C301



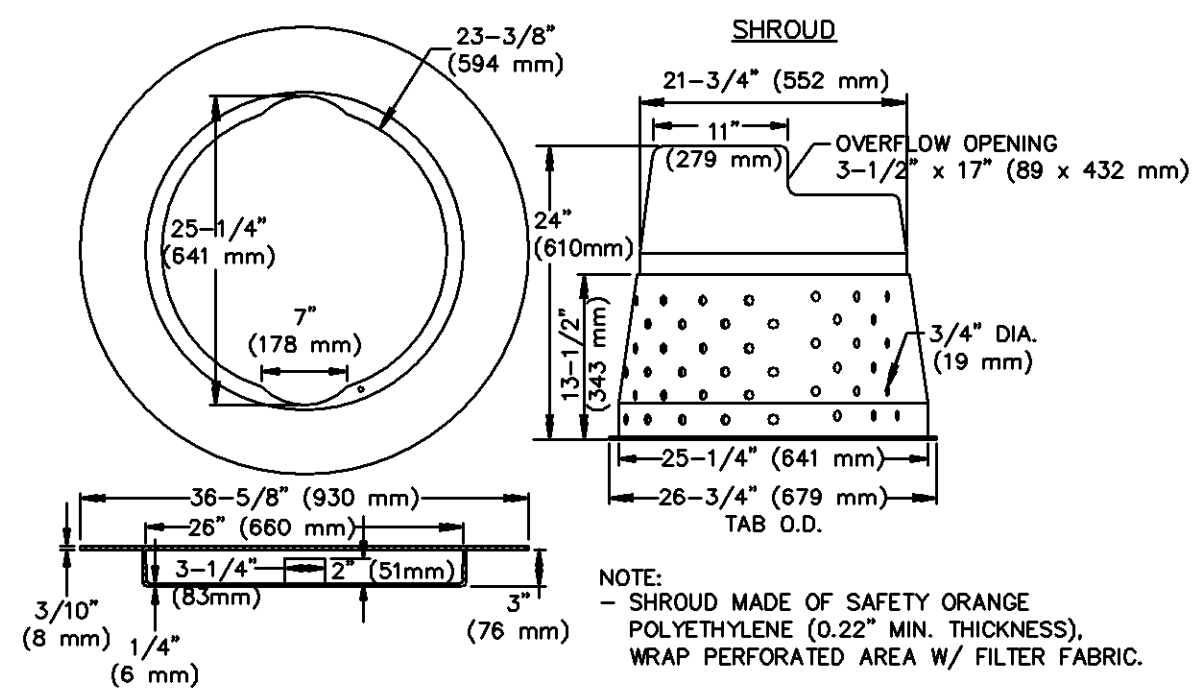
BIOROLL BLANKET SYSTEM (TYPE 3 SPEC. 3889)
BIOROLL.dwg 4/2009



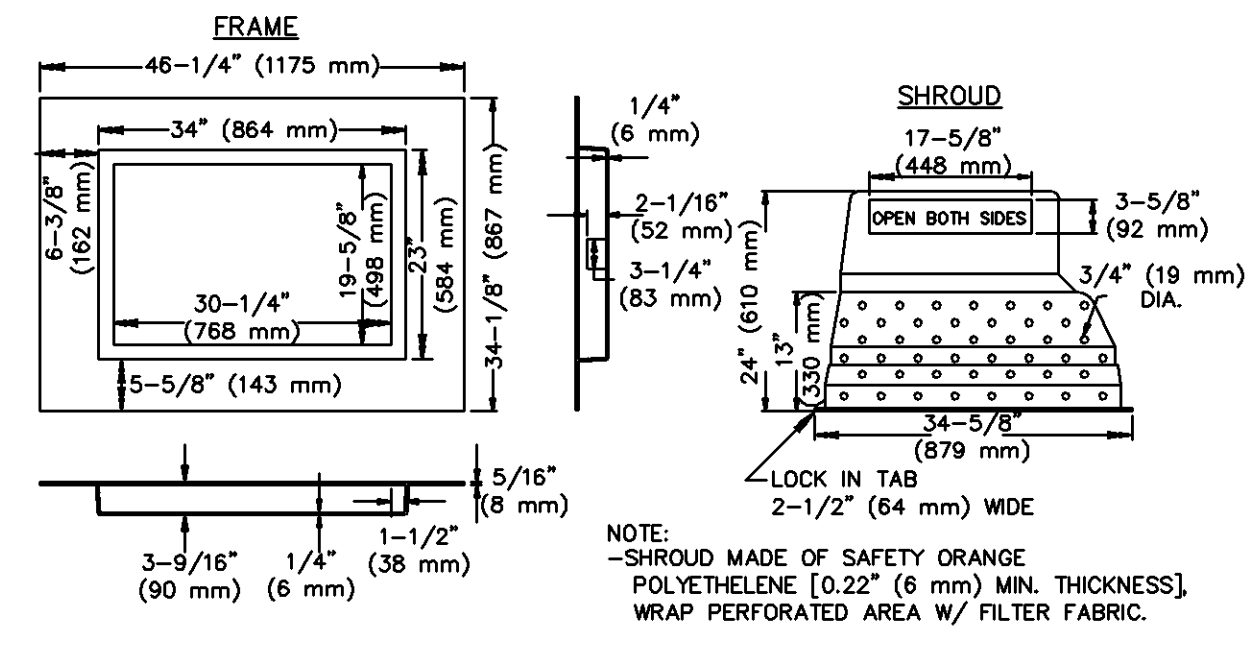
INLET PROTECTION SILT FENCE RING AND ROCK FILTER BERM
INLET_PROTECTION_RING.dwg 4/2009



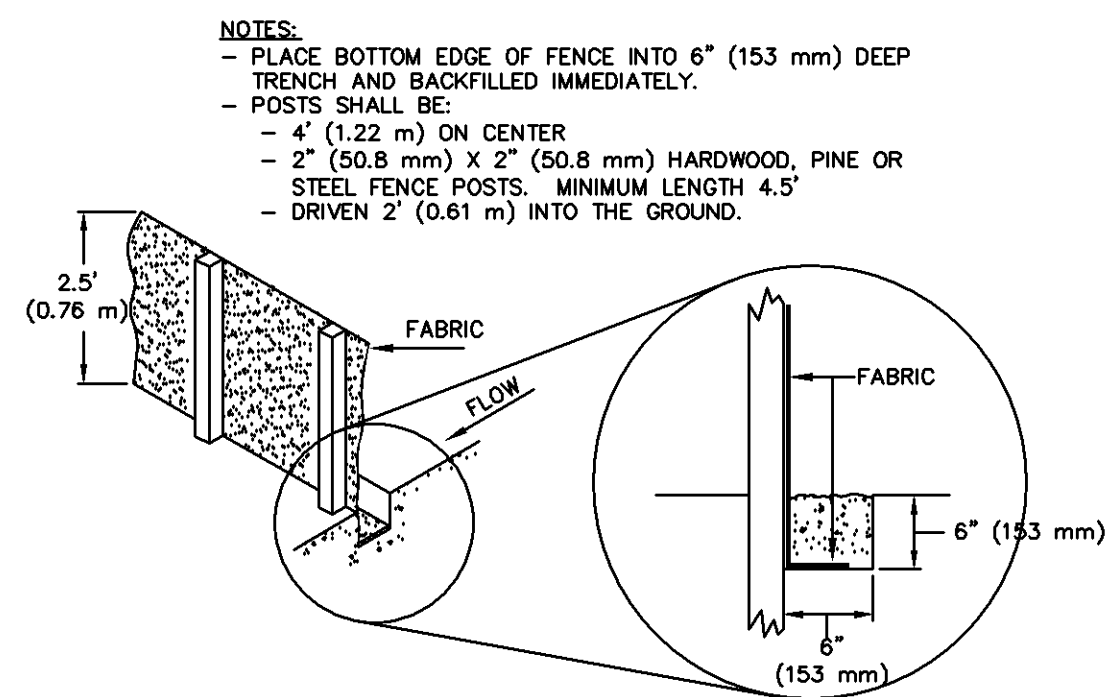
ROCK CONSTRUCTION ENTRANCE AT ACCESS ROADS
ROCK-ENTR.dwg 4/2009



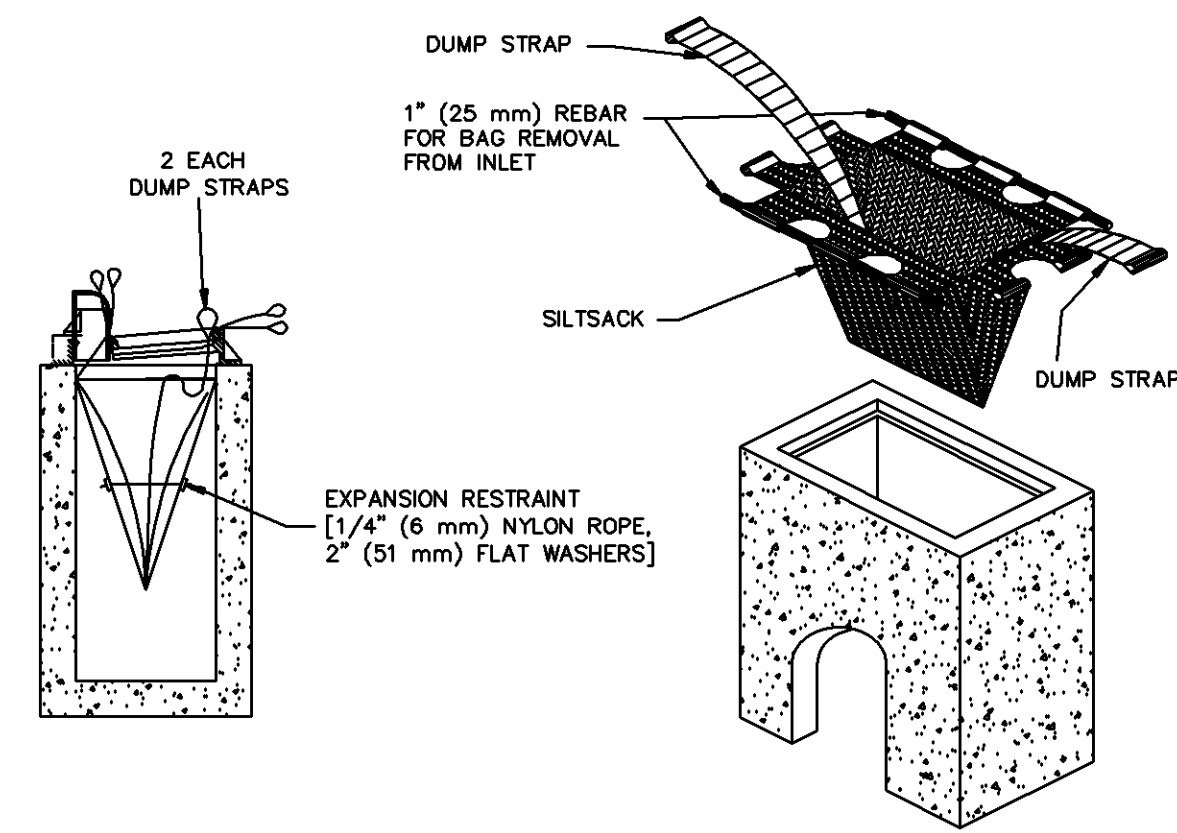
INLET PROTECTION, PERFORATED EROSION BARRIER SHROUD W/ 27\"/>



INLET PROTECTION, PERFORATED EROSION BARRIER SHROUD W/ 2' x 3' (0.61 x 0.91 m) FRAME
INLET_SHROUD_2x3.dwg 4/2009



EROSION CONTROL FENCE
SILT_FEN_STD.dwg 4/2009



INLET PROTECTION, SEDIMENT FILTER SACK
SILT_SACK_2x3 4/2009

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Kimley»Horn

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DESIGNED BY: JASON D. SCRIVANOW
DRAWN BY: VLD
CHECKED BY: JDS

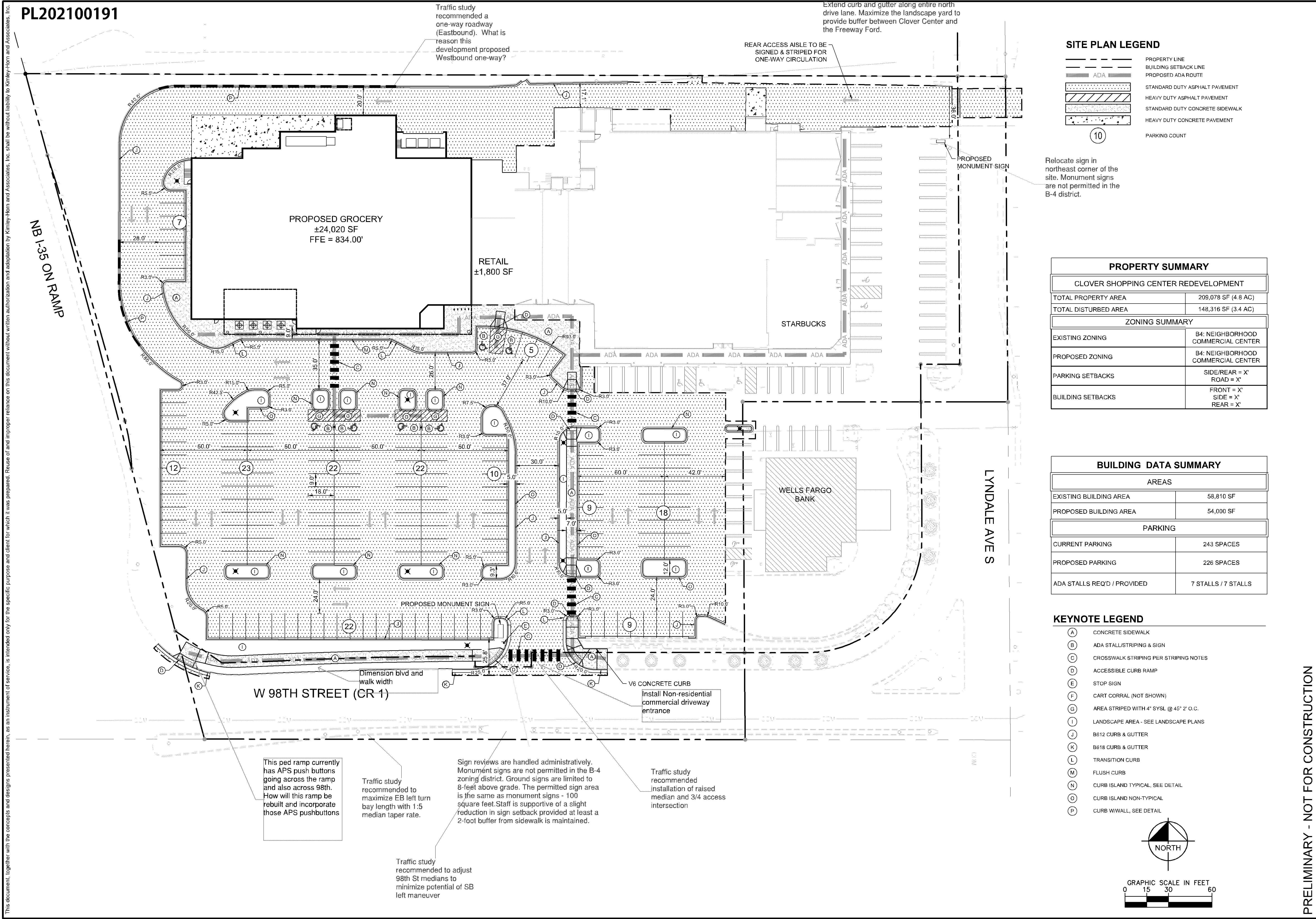
DATE: 09/08/2021
SCALE: AS SHOWN
PROJECT: KHA PROJECT 16051031

EROSION AND SEDIMENT CONTROL DETAILS

PRELIMINARY - NOT FOR CONSTRUCTION

CLOVER SHOPPING CENTER REDEVELOPMENT
PREPARED FOR **KRAUS ANDERSON DEVELOPMENT**
BLOOMINGTON, MN

SHEET NUMBER **C302**



SITE PLAN LEGEND

	PROPERTY LINE
	BUILDING SETBACK LINE
	PROPOSED ADA ROUTE
	STANDARD DUTY ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	STANDARD DUTY CONCRETE SIDEWALK
	HEAVY DUTY CONCRETE PAVEMENT
	PARKING COUNT

Relocate sign in northeast corner of the site. Monument signs are not permitted in the B-4 district.

PROPERTY SUMMARY

CLOVER SHOPPING CENTER REDEVELOPMENT	
TOTAL PROPERTY AREA	209,078 SF (4.8 AC)
TOTAL DISTURBED AREA	148,316 SF (3.4 AC)

ZONING SUMMARY

EXISTING ZONING	B4: NEIGHBORHOOD COMMERCIAL CENTER
PROPOSED ZONING	B4: NEIGHBORHOOD COMMERCIAL CENTER
PARKING SETBACKS	SIDE/REAR = 'X' ROAD = 'X'
BUILDING SETBACKS	FRONT = 'X' SIDE = 'X' REAR = 'X'

BUILDING DATA SUMMARY

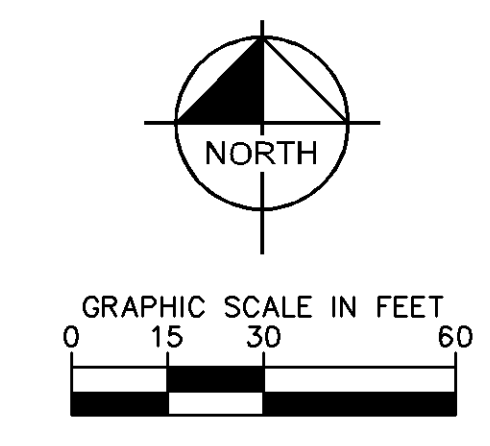
AREAS	
EXISTING BUILDING AREA	58,810 SF
PROPOSED BUILDING AREA	54,000 SF

PARKING

CURRENT PARKING	243 SPACES
PROPOSED PARKING	226 SPACES
ADA STALLS REQ'D / PROVIDED	7 STALLS / 7 STALLS

KEYNOTE LEGEND

(A)	CONCRETE SIDEWALK
(B)	ADA STALL/STRIPING & SIGN
(C)	CROSSWALK STRIPING PER STRIPING NOTES
(D)	ACCESSIBLE CURB RAMP
(E)	STOP SIGN
(F)	CART CORRAL (NOT SHOWN)
(G)	AREA STRIPED WITH 4" SYSL @ 45° 2' O.C.
(I)	LANDSCAPE AREA - SEE LANDSCAPE PLANS
(L)	B612 CURB & GUTTER
(K)	B618 CURB & GUTTER
(L)	TRANSITION CURB
(M)	FLUSH CURB
(N)	CURB ISLAND TYPICAL, SEE DETAIL
(O)	CURB ISLAND NON-TYPICAL
(P)	CURB WALL, SEE DETAIL



PRELIMINARY - NOT FOR CONSTRUCTION

CLOVER SHOPPING CENTER REDEVELOPMENT

PREPARED FOR **KRAUS ANDERSON DEVELOPMENT**

BLOOMINGTON MN

SITE PLAN

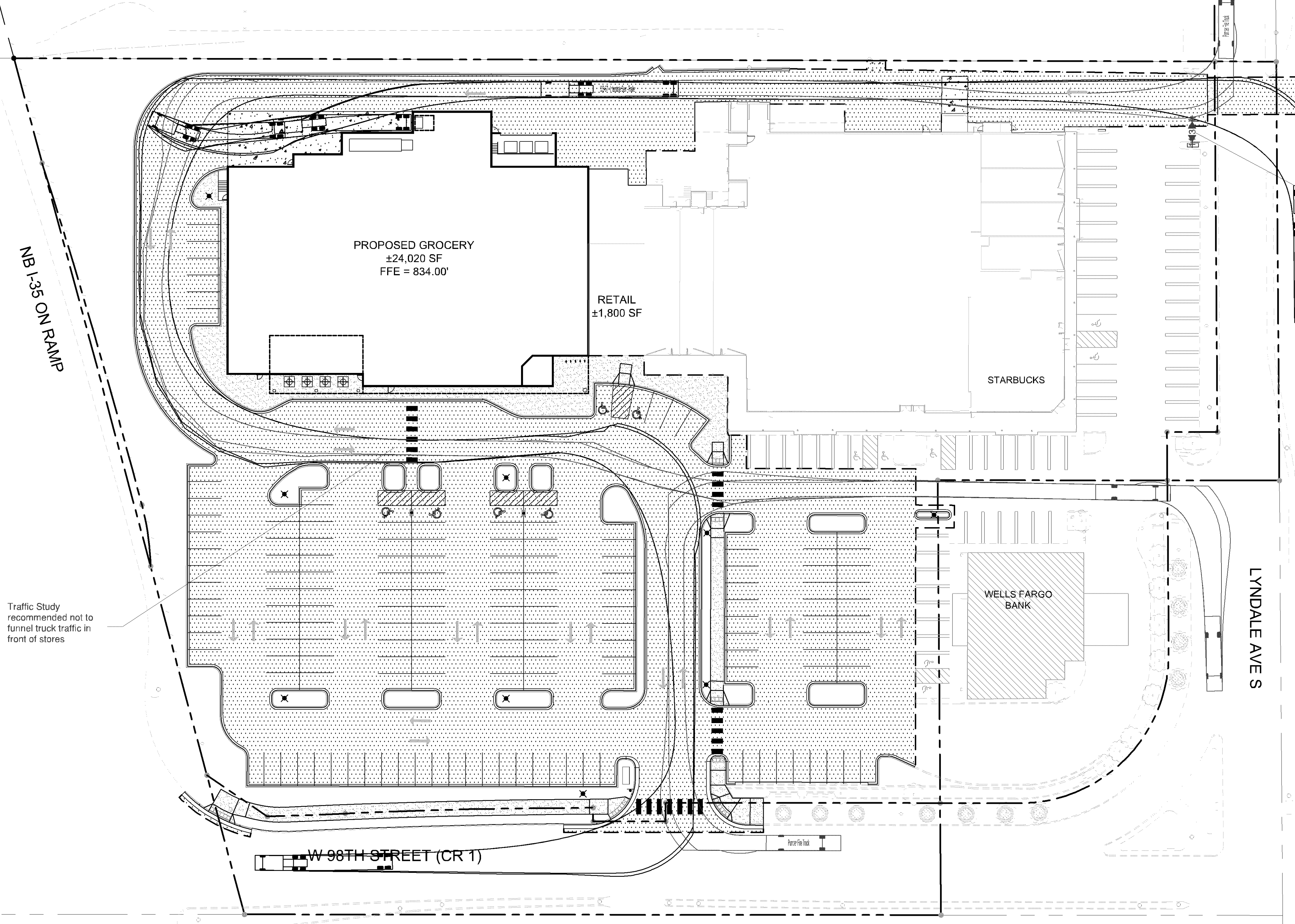
SHEET NUMBER **C400**

KIMLEY HORN

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NO.	REVISIONS	DATE	BY

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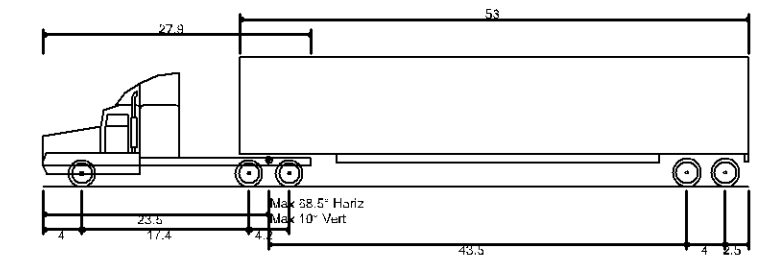


Traffic Study recommended not to funnel truck traffic in front of stores

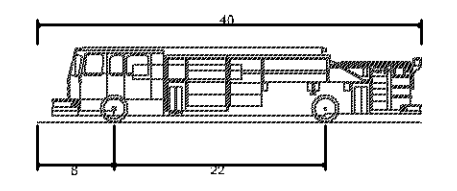
SITE PLAN LEGEND

	PROPERTY LINE
	BUILDING SETBACK LINE
	LANDSCAPE BUFFER LINE
	PROPOSED ADA ROUTE
	STANDARD DUTY ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	STANDARD DUTY CONCRETE SIDEWALK
	HEAVY DUTY CONCRETE PAVEMENT

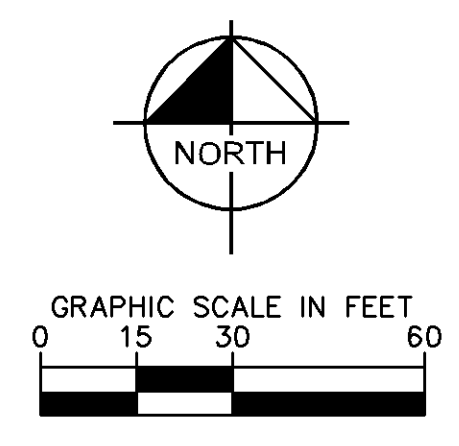
Two outbound lanes recommended in traffic study. WB 62 would not be able to make turn if vehicles occupied the 2 outbound lanes



WB-67 - Interstate Semi-Trailer	
Overall Length	73.50ft
Overall Width	8.50ft
Overall Body Height	13.50ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.50ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	28.40°



Pumper Fire Truck	
Overall Length	40.00ft
Overall Width	8.167ft
Overall Body Height	7.745ft
Min Body Ground Clearance	0.562ft
Track Width	9.157ft
Lock-to-lock time	0.50s
Max Wheel Angle	45.00°



PRELIMINARY - NOT FOR CONSTRUCTION

CLOVER SHOPPING CENTER REDEVELOPMENT
 PREPARED FOR
KRAUS ANDERSON DEVELOPMENT
 BLOOMINGTON MN

SITE CIRCULATION

KHA PROJECT	16051001
DATE	09/08/2021
SCALE	AS SHOWN
DESIGNED BY	KTI
DRAWN BY	VLD
CHECKED BY	JDS
DATE	9/20/21
LIC. NO.	XXXXX
STATE	MN

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.

JASON D. SCRIVSHAW
 MN LIC. NO. XXXXX

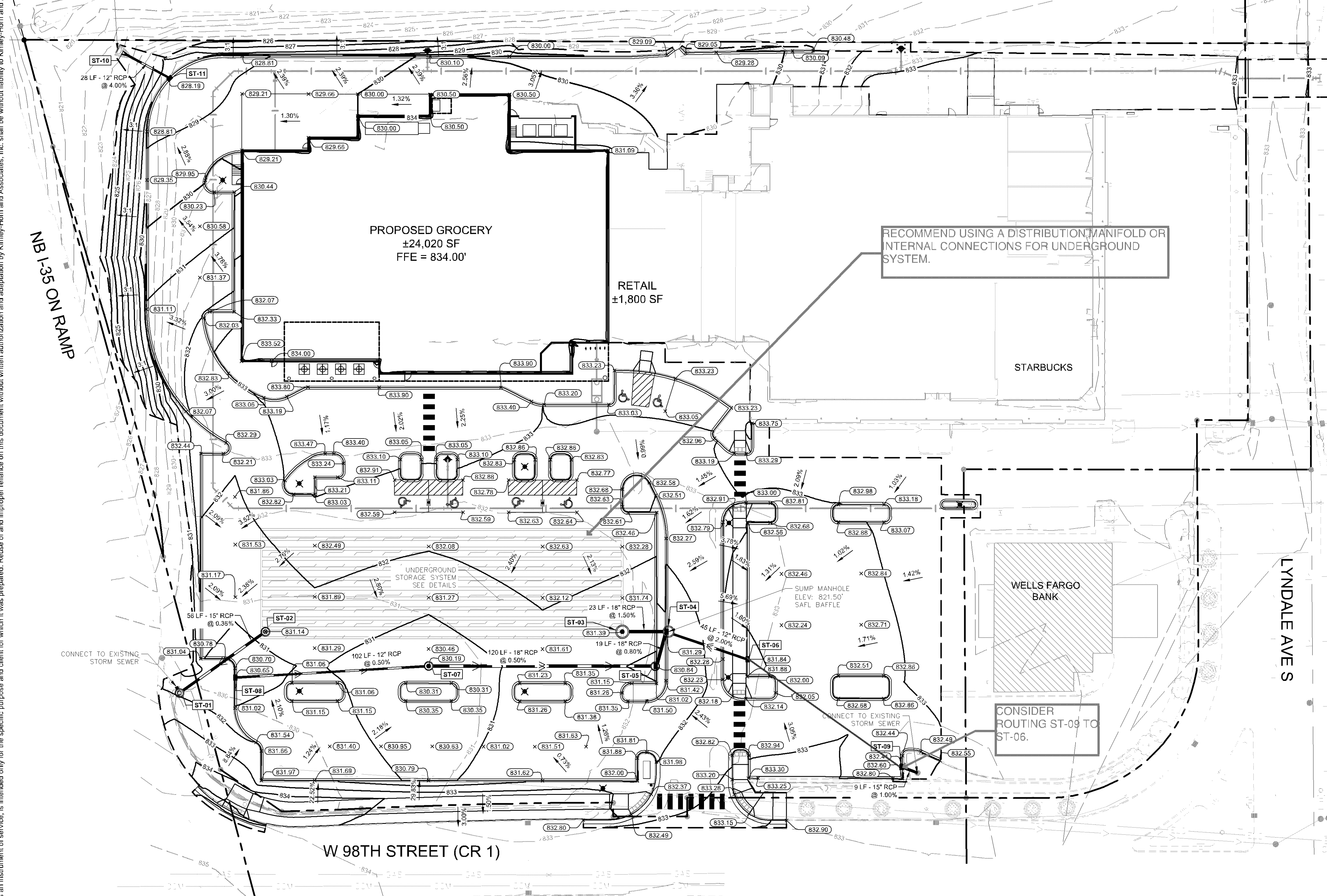
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No.	REVISIONS	DATE	BY

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PL202100191

3.0 CY-12" CLASS II RIP RAP, GEOTEXTILE FABRIC

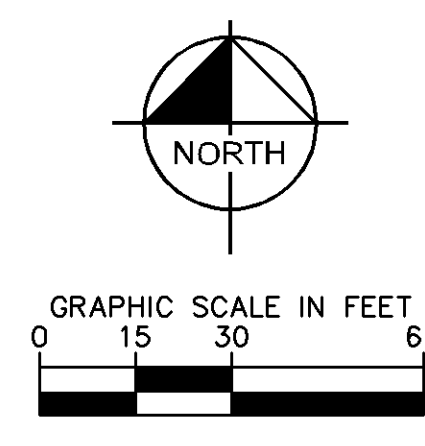


DRAINAGE SCHEDULE											
STRUCTURE NO.	STRUCTURE/CASTING TYPE	RIM/GRATE ELEVATION	INVERT ELEVATION IN	PIPE SIZE IN	PIPE SLOPE IN	INVERT ELEVATION OUT	PIPE SIZE OUT	PIPE SLOPE OUT	PIPE MATERIAL	BUILD HEIGHT	SUMP DEPTH
ST-01	STMH 48" DIA.	831.85	NE 828.00	15"	0.36%	NW 827.80	18"	6.50%	RCP	4.1	0.0'
ST-02	STMH 72" DIA.	831.14	E 825.50	42"	0.00%	SW 828.20	15"	0.36%	RCP	5.6	0.0'
ST-03	STMH 72" DIA.	831.39	E 825.50	18"	1.50%	W 825.50	42"	0.00%	CMP	5.9	0.0'
ST-04	CBMH 60" DIA.	831.29	S 825.95 E 826.35	18" 12"	0.80% 2.00%	W 825.85	18"	1.50%	RCP	9.8	4.3'
ST-05	CBMH 48" DIA.	830.84	W 826.20	18"	0.50%	N 826.10	18"	0.80%	RCP	4.7	0.0'
ST-06	CB 2' X 3'	831.84	W 827.05	12"	0.50%	W 827.25	12"	2.00%	RCP	4.6	0.0'
ST-07	CBMH 48" DIA.	830.19	W 827.05	12"	0.50%	E 826.80	18"	0.50%	RCP	3.4	0.0'
ST-08	CB 2' X 3'	830.65	E 827.56	12"	0.50%	E 827.56	12"	0.50%	RCP	3.1	0.0'
ST-09	CB 2' X 3'	832.41	E 828.99	15"	1.00%	E 828.99	15"	1.00%	RCP	3.4	0.0'
ST-10	FES 15"	824.25	SE 823.00	12"	4.00%					???	0.0'
ST-11	CB 2' X 3'	828.18	NW 824.12	12"	4.00%				RCP	4.1	0.0'

LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED STORM MANHOLE (SOLID CASTING)
- PROPOSED STORM MANHOLE (ROUND INLET CASTING)
- PROPOSED STORM MANHOLE/ CATCH BASIN (CURB INLET CASTING)
- PROPOSED STORM SEWER CLENOTH
- PROPOSED FLARED END SECTION
- PROPOSED RIPRAP
- PROPOSED STORM SEWER
- PROPOSED STORM SEWER
- PROPOSED SPOT ELEVATION
- PROPOSED HIGH POINT ELEVATION
- PROPOSED LOW POINT ELEVATION
- PROPOSED GUTTER ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED FLUSH PAVEMENT ELEVATION
- MATCH EXISTING ELEVATION
- PROPOSED EMERGENCY OVERFLOW
- PROPOSED DRAINAGE DIRECTION
- PROPOSED ADA SLOPE

- GRADING PLAN NOTES**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF BLOOMINGTON, SPECIFICATIONS AND BUILDING PERMIT REQUIREMENTS.
 - CONTRACTOR TO CALL GOPHER STATE CALL ONE @ <1-800-252-1166> AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION/CONSTRUCTION FOR UTILITY LOCATIONS.
 - STORM SEWER PIPE SHALL BE AS FOLLOWS:
RCP PER ASTM C-76
HDPE: 0" - 10" PER AASHTO M-252
HDPE: 12" OR GREATER PER ASTM F-2305
PVC SCH. 40 PER ASTM D-3034
STORM SEWER FITTINGS SHALL BE AS FOLLOWS:
RCP PER ASTM C-76, JOINTS PER ASTM C-361, C-990, AND C-443
HDPE PER ASTM 3212
PVC PER ASTM D-3034, JOINTS PER ASTM D-3212
 - CONTRACTOR TO FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO THE START OF SITE GRADING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES OR VARIATIONS.
 - 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 EXISTING PAVEMENT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
 - CONTRACTOR SHALL EXCAVATE DRAINAGE TRENCHES TO FOLLOW PROPOSED STORM SEWER ALIGNMENTS.
 - GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL ROUGH GRADE TO SUBGRADE ELEVATION AND LEAVE STREET READY FOR SUBBASE.
 - ALL EXCESS MATERIAL, BITUMINOUS SURFACING, CONCRETE ITEMS, ANY ABANDONED UTILITY ITEMS, AND OTHER UNSTABLE MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE CONSTRUCTION SITE.
 - REFER TO THE UTILITY PLAN FOR SANITARY SEWER MAIN, WATER MAIN SERVICE LAYOUT AND ELEVATIONS AND CASTING / STRUCTURE NOTATION.
 - CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF PAVEMENTS AND CURB AND GUTTER WITH SMOOTH UNIFORM SLOPES TO PROVIDE POSITIVE DRAINAGE.
 - INSTALL A MINIMUM OF 4" CLASS 5+ AGGREGATE BASE UNDER CURB AND GUTTER AND CONCRETE SIDEWALKS.
 - UPON COMPLETION OF EXCAVATION AND FILLING, CONTRACTOR SHALL RESTORE ALL STREETS AND DISTURBED AREAS ON SITE. ALL DISTURBED AREAS SHALL BE RE-VEGETATED WITH A MINIMUM OF 4" OF TOPSOIL.
 - ALL SPOT ELEVATIONS/CONTOURS ARE TO GUTTER / FLOW LINE UNLESS OTHERWISE NOTED.
 - GRADING FOR ALL SIDEWALKS AND ACCESSIBLE ROUTES INCLUDING CROSSING DRIVEWAYS SHALL CONFORM TO CURRENT ADA STATE/NATIONAL STANDARDS. IN NO CASE SHALL ACCESSIBLE RAMP SLOPES EXCEED 1" VERTICAL TO 12" HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPES EXCEED 2%. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPES EXCEED 5%. IN NO CASE SHALL ACCESSIBLE PARKING STALLS OR AISLES EXCEED 2% (1.5% TARGET) IN ALL DIRECTIONS. SIDEWALK ACCESS TO EXTERNAL BUILDING DOORS AND GATES SHALL BE ADA COMPLIANT. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ADA CRITERIA CANNOT BE MET IN ANY LOCATION PRIOR TO PAVING. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR A.D.A COMPLIANCE ISSUES.
 - MAINTAIN A MINIMUM OF 0.5% GUTTER SLOPE TOWARDS LOW POINTS.
 - CONTRACTOR TO PROVIDE 3" INSULATION BY 5' WIDE CENTERED ON STORM PIPE IF LESS THAN 4" OF COVER IN PAVEMENT AREAS AND LESS THAN 3" OF COVER IN LANDSCAPE AREAS.
 - ROOF DRAIN INVERT CONNECTIONS AT THE BUILDING SHALL BE AT ELEVATION <XXXX> OR LOWER UNLESS NOTED OTHERWISE. REFERENCE MEP PLANS FOR ROOF DRAIN CONNECTION.
 - ALL STORM SEWER CONNECTIONS SHALL BE GASKETED AND WATER TIGHT INCLUDING MANHOLE CONNECTIONS.
 - ALL STORM SEWER PIPE SHALL BE AIR TESTED IN ACCORDANCE WITH THE CURRENT PLUMBING CODE.
 - MAINTAIN A MINIMUM OF 1.25% SLOPE IN BITUMINOUS PAVEMENT AREAS, 0.5% SLOPE IN CONCRETE PAVEMENT AREAS.
 - CONTRACTOR SHALL REVIEW PAVEMENT GRADIENT AND CONSTRUCT "INFALL CURB" WHERE PAVEMENT DRAINS TOWARD GUTTER, AND "OUTFALL" CURB WHERE PAVEMENT DRAINS AWAY FROM GUTTER.



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GRADING & DRAINAGE PLAN

CLOVER SHOPPING CENTER REDEVELOPMENT
PREPARED FOR
KRAUS ANDERSON DEVELOPMENT
BLOOMINGTON, MN

PRELIMINARY - NOT FOR CONSTRUCTION

PROJECT: 16051001
DATE: 09/08/2021
SCALE: AS SHOWN
DESIGNED BY: KTI
DRAWN BY: VLB
CHECKED BY: JDS

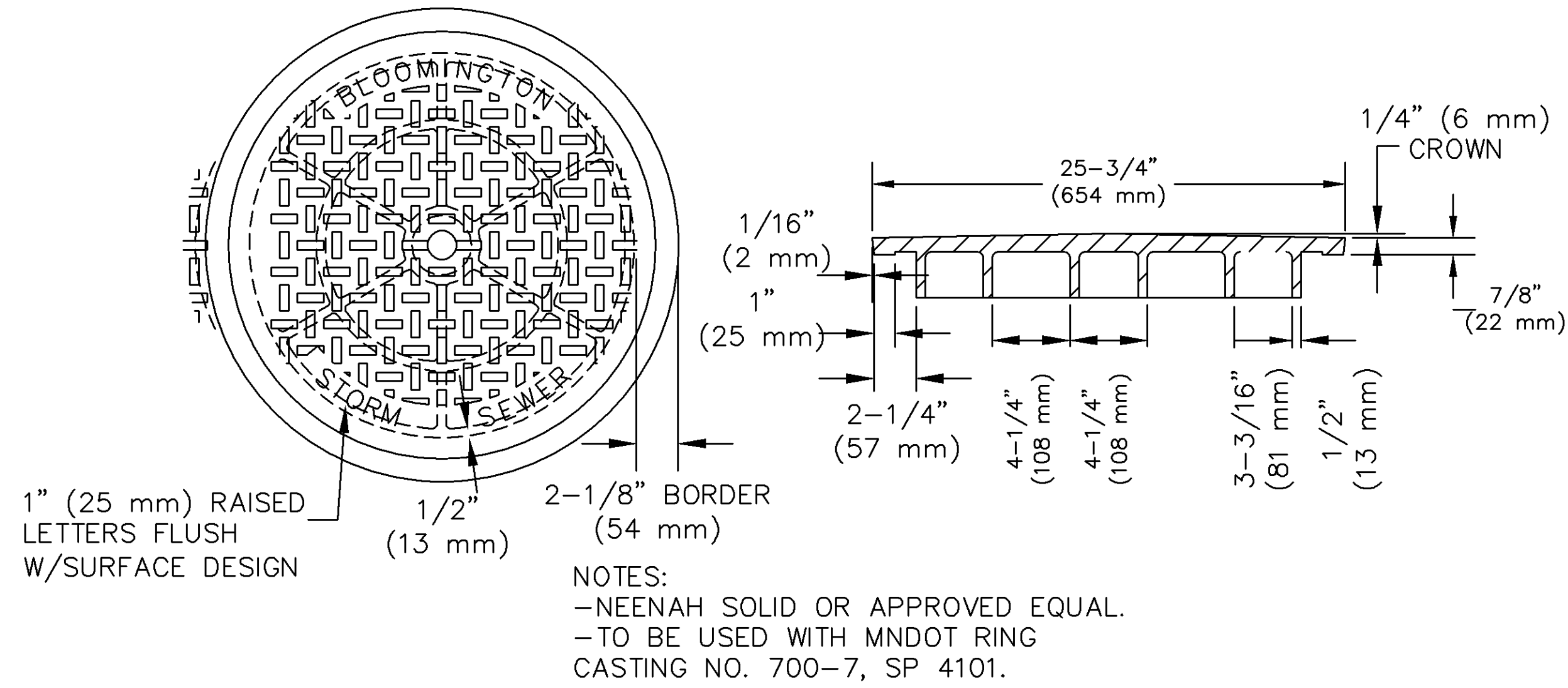
JASON D. SCRIVANOW
MN LIC. NO. XXXXX
DATE: 9/8/2021

REVISIONS

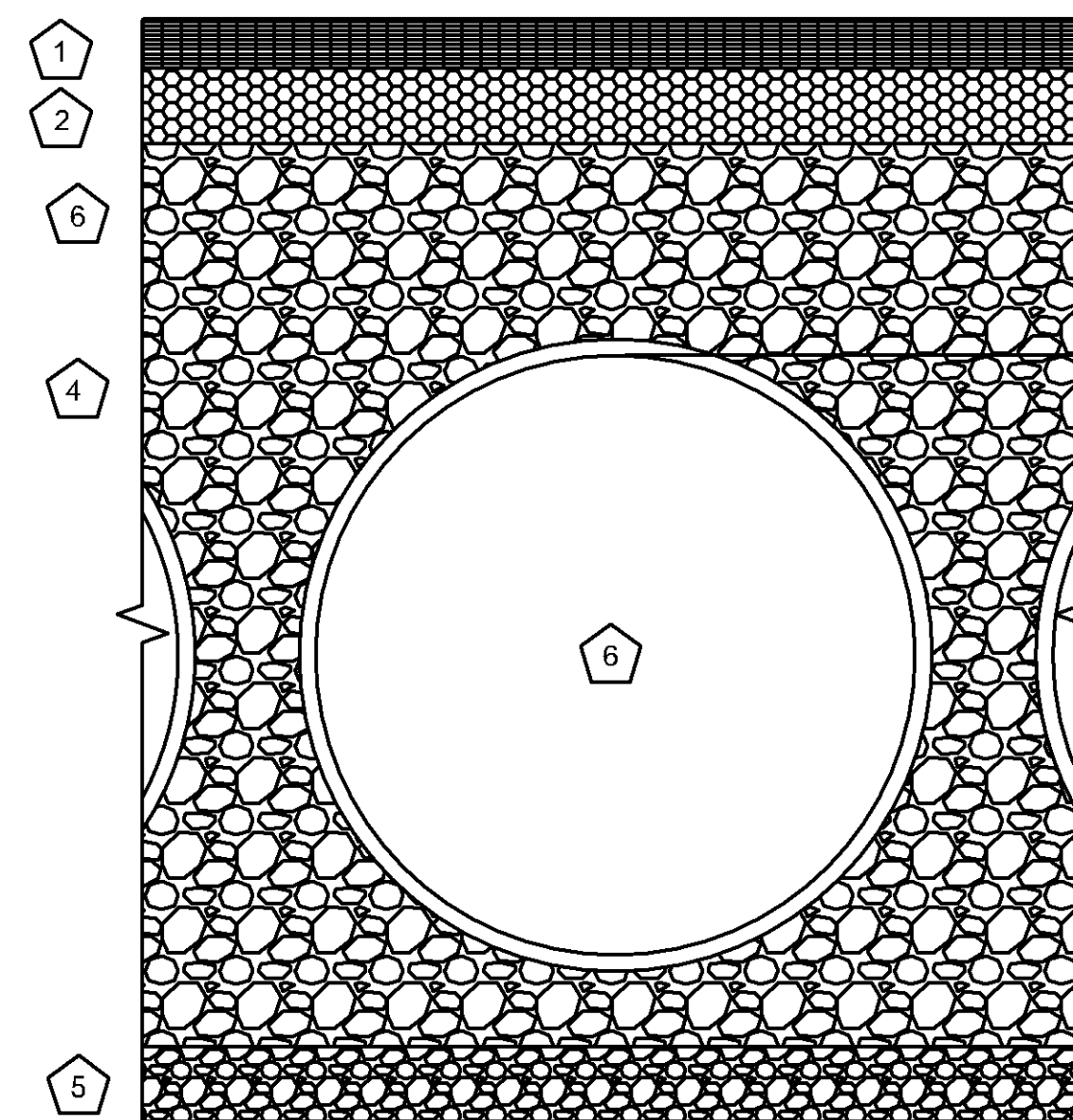
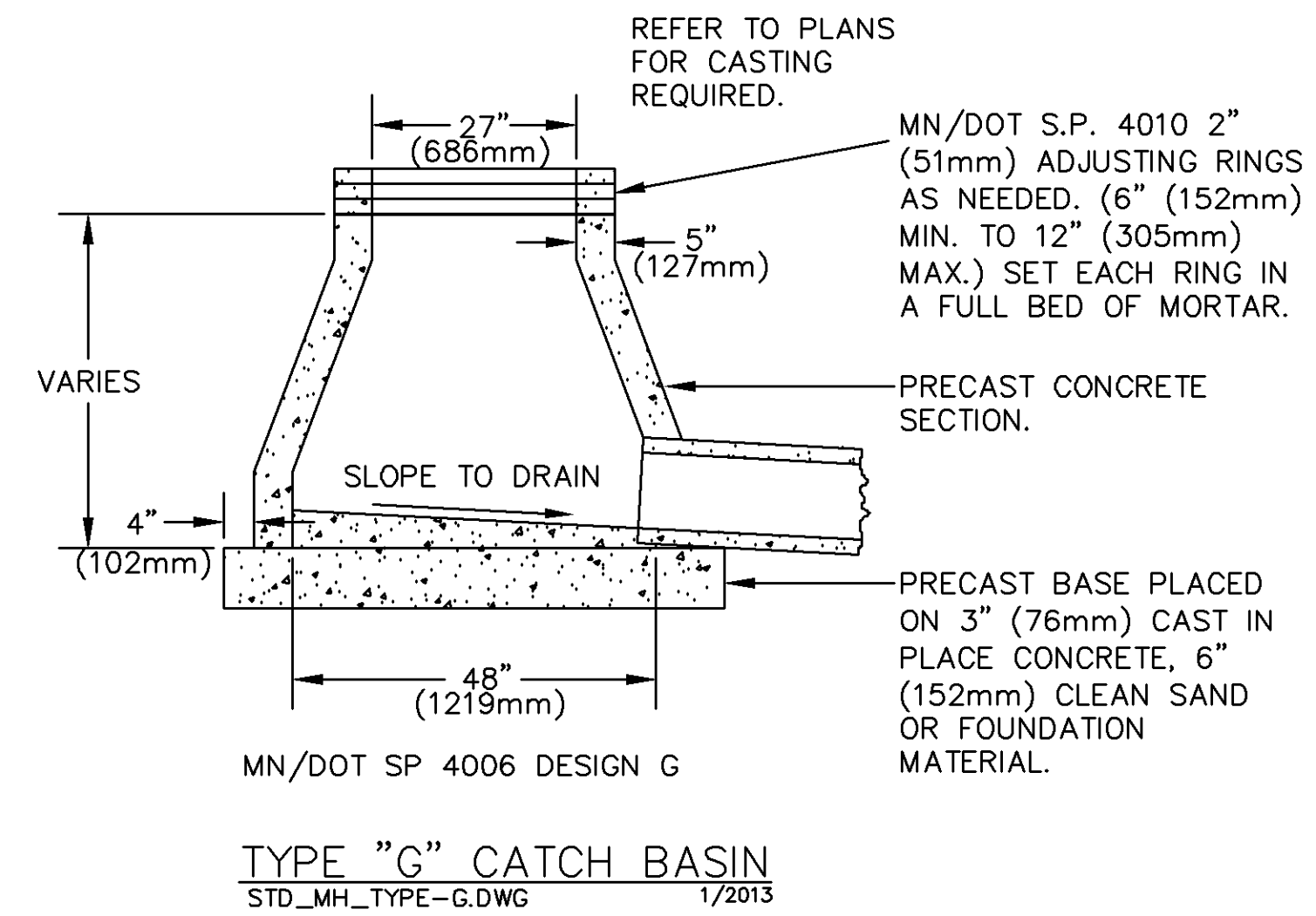
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SHEET NUMBER
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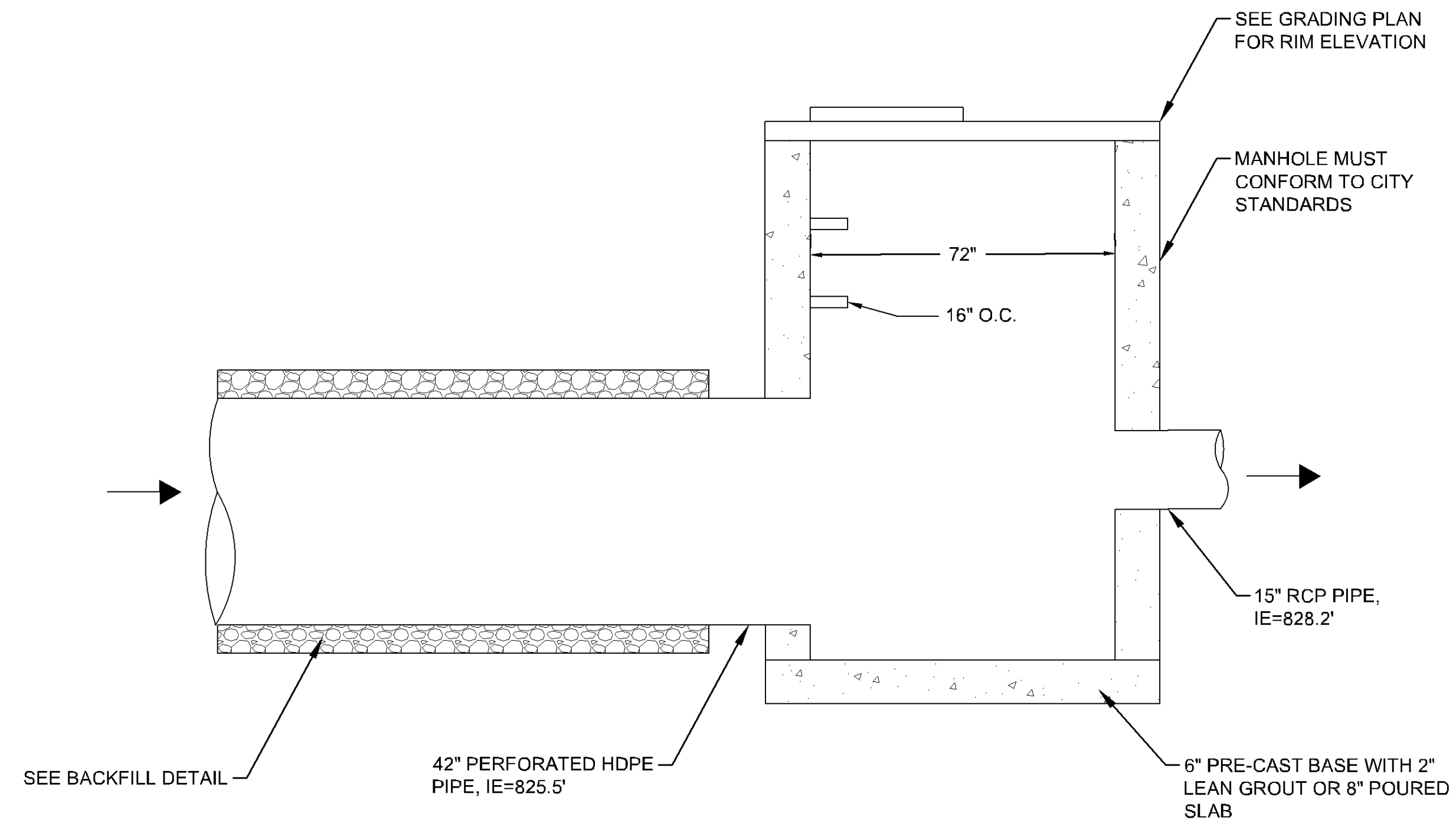
STANDARD STORM SEWER MANHOLE COVER
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BACKFILL DETAIL
 N.T.S.

KEY

- 1.) RIGID OR FLEXIBLE PAVEMENT
- 2.) GRANULAR ROAD BASE
- 3.) 12" MIN. FOR DIAMETERS THROUGH 96" 18" MIN. FOR DIAMETERS FROM 102" AND LARGER MEASURED TO TOP OF RIGID OR BOTTOM OF FLEXIBLE PAVEMENT
- 4.) FREE DRAINING ANGULAR WASHED STONE 3/4" - 2" MIN. PARTICLE SIZE. 6" MIN DEPTH ABOVE AND BELOW PIPE
- 5.) GRANULAR BEDDING, ROUGHLY SHAPED TO FIT THE BOTTOM OF PIPE, 6" MIN DEPTH
- 6.) 42" DIA. PERFORATED HDPE PIPE



OUTLET CONTROL STRUCTURE
 N.T.S.

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No.	REVISIONS	DATE	BY

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JASON D. SCRIVANOW
 MN LIC. NO. 992021 DATE: 9/9/2021

KHA PROJECT	16051031
DATE	09/08/2021
SCALE	AS SHOWN
DESIGNED BY	KTI
DRAWN BY	VLB
CHECKED BY	JDS

GRADING & DRAINAGE DETAILS

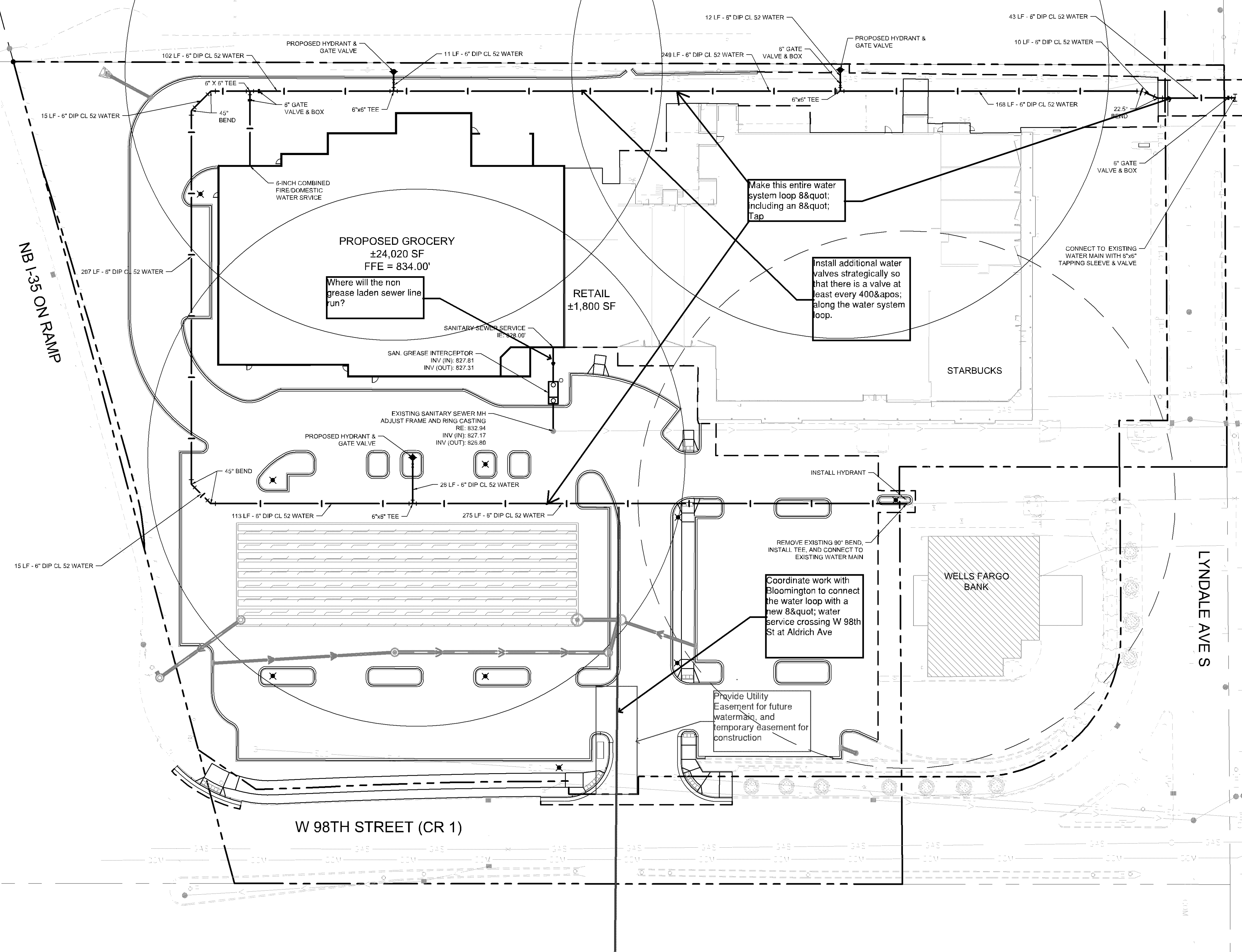
PRELIMINARY - NOT FOR CONSTRUCTION

CLOVER SHOPPING CENTER REDEVELOPMENT
 PREPARED FOR
KRAUS ANDERSON DEVELOPMENT
 BLOOMINGTON MN

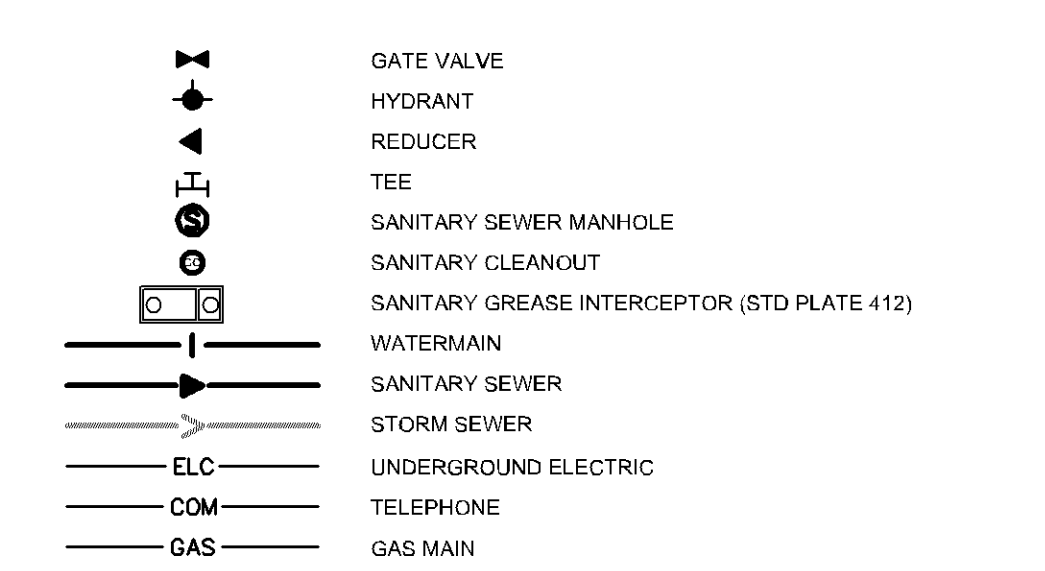
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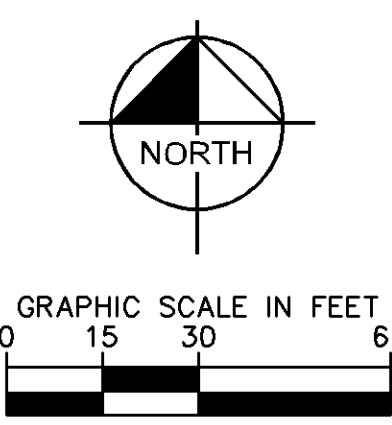


LEGEND



UTILITY PLAN NOTES

- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 8" PVC SDR35 PER ASTM D-3034, FOR PIPES LESS THAN 12' DEEP
 8" PVC SDR28 PER ASTM D-3034, FOR PIPES MORE THAN 12' DEEP
 6" PVC SCHEDULE 40 PER ASTM D-3034
 DUCTILE IRON PIPE PER AWWA C150
- WATER LINES SHALL BE AS FOLLOWS:
 6" AND LARGER, PVC C-900 PER ASTM D 2241
 CLASS 200 UNDER COUNTY ROADS, OTHERWISE CLASS 150
 4" AND LARGER DUCTILE IRON PIPE PER AWWA C150
 SMALLER THAN 3" PIPING SHALL BE COPPER TUBE TYPE "K" PER ANSI B16.22 OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241.
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH RESTRAINTS SUCH AS THRUST BLOCKING, WITH STAINLESS STEEL OR COBALT BLUE BOLTS, OR AS INDICATED IN THE CITY SPECIFICATIONS AND PROJECT DOCUMENTS.
- ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE OR STRUCTURE).
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 7-5" COVER ON ALL WATERLINES.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES, OR ANY OBSTRUCTION (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE 3'-0" OR C909 WITH MECHANICAL JOINTS AT LEAST 10 FEET ON EITHER SIDE OF THE CENTER LINE OF THE CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE FASTENERS AS REQUIRED TO PROVIDE A MINIMUM OF 18" VERTICAL SEPARATION MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21-11 (AWWA C-151) (CLASS 50).
- LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- TOPS OF MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS, IN GREEN AREAS, WITH WATERTIGHT LIDS.
- ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
- EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
- REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE CITY OF BLOOMINGTON AND/OR STATE OF MN WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR SHALL REFERENCE ARCH / MEP PLANS FOR SITE LIGHTING AND ELECTRICAL PLAN.
- BACKFLOW DEVICES (DDCV AND PRZ ASSEMBLIES) AND METERS ARE LOCATED IN THE INTERIOR OF THE BUILDING. REF. ARCH / MEP PLANS.
- ALL ONSITE WATERMANS AND SANITARY SEWERS SHALL BE PRIVATELY OWNED AND MAINTAINED.
- ALL WATERMAIN STUBOUTS SHALL BE MECHANICALLY RESTRAINED WITH REACTION BLOCKING.



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 BLOOMINGTON, MN

UTILITY PLAN

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NO.	REVISIONS	DATE	BY

DATE	BY	DATE	BY
09/08/2021	JDS		

KRA PROJECT: 160551031
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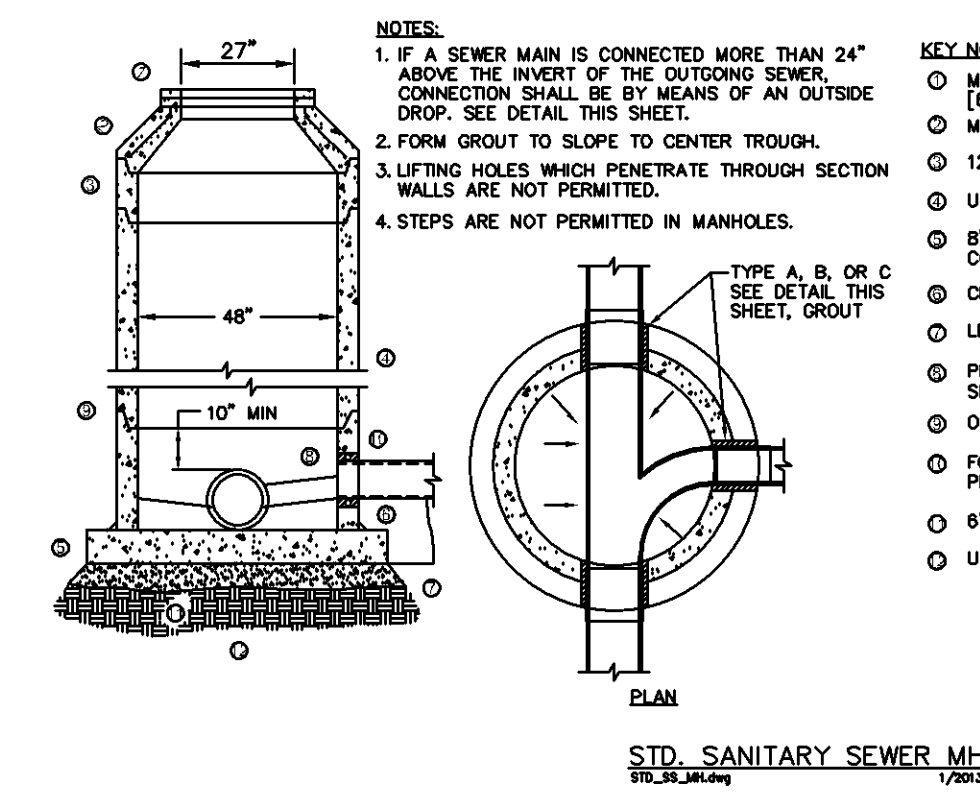
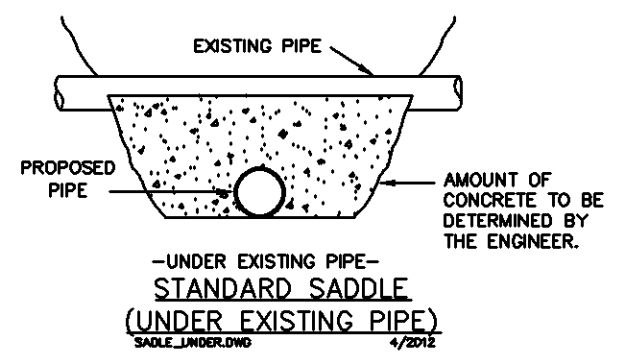
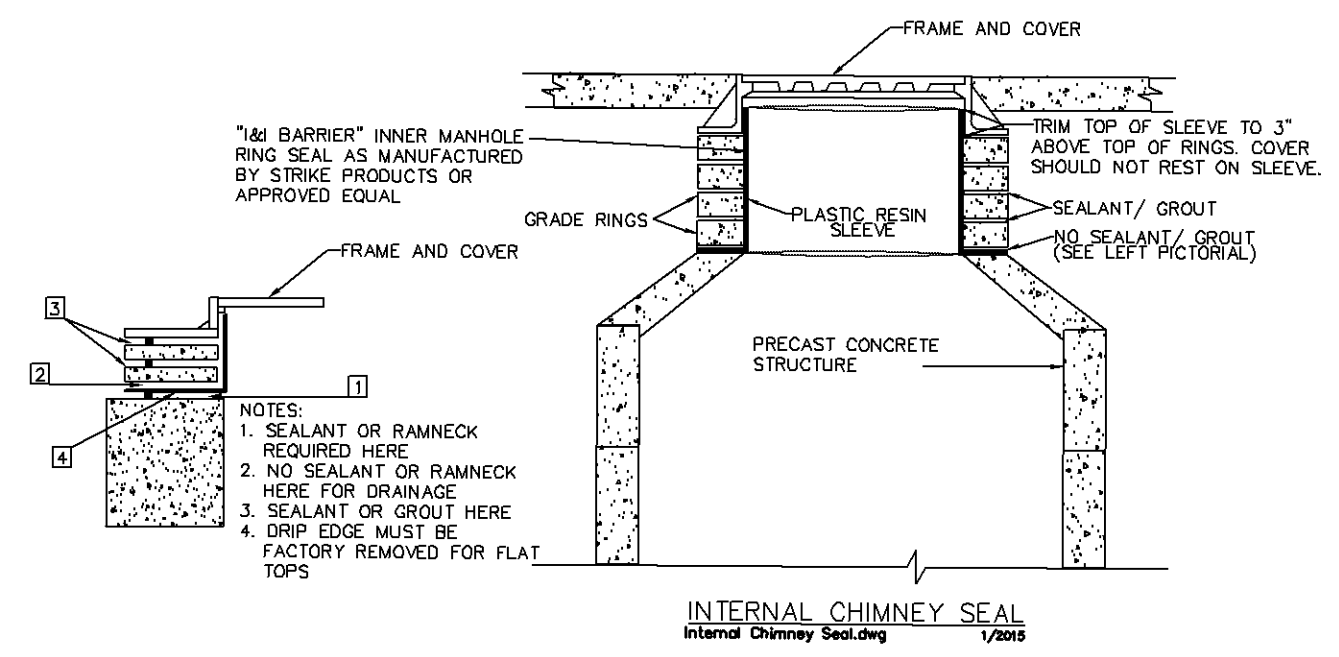
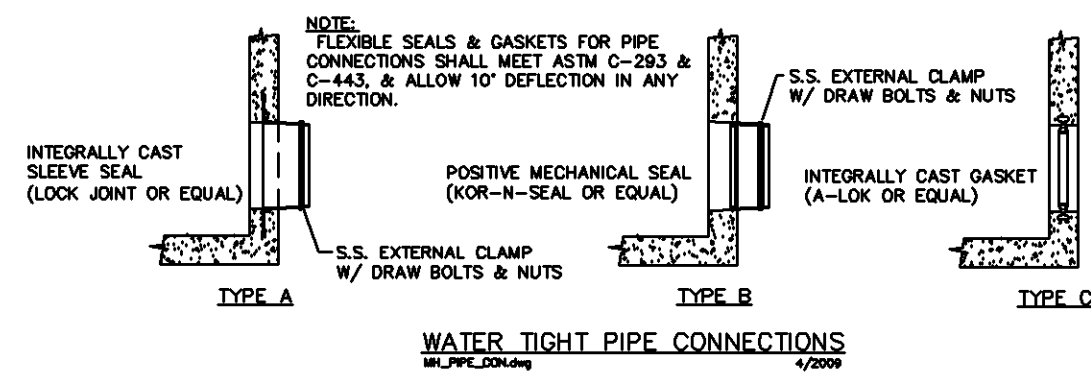
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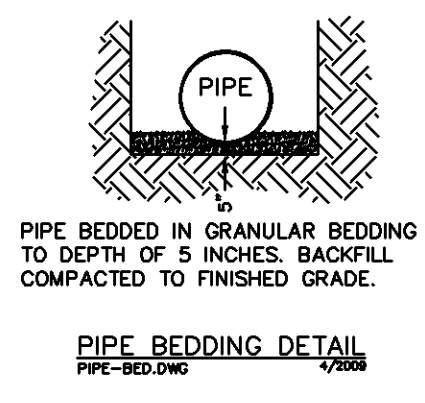
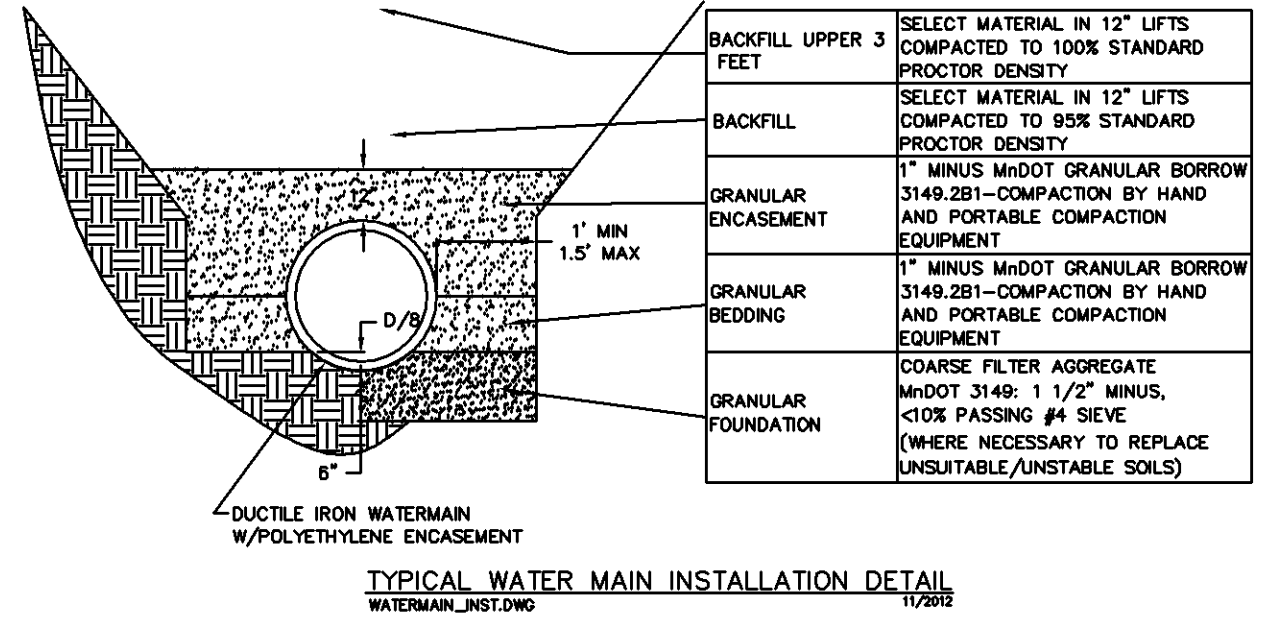
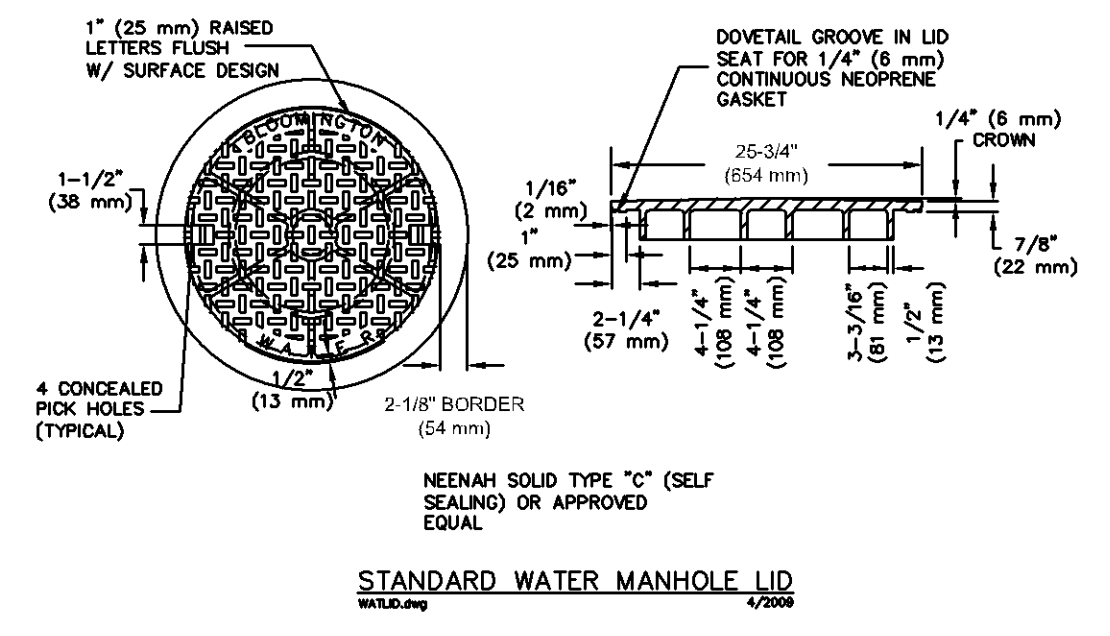
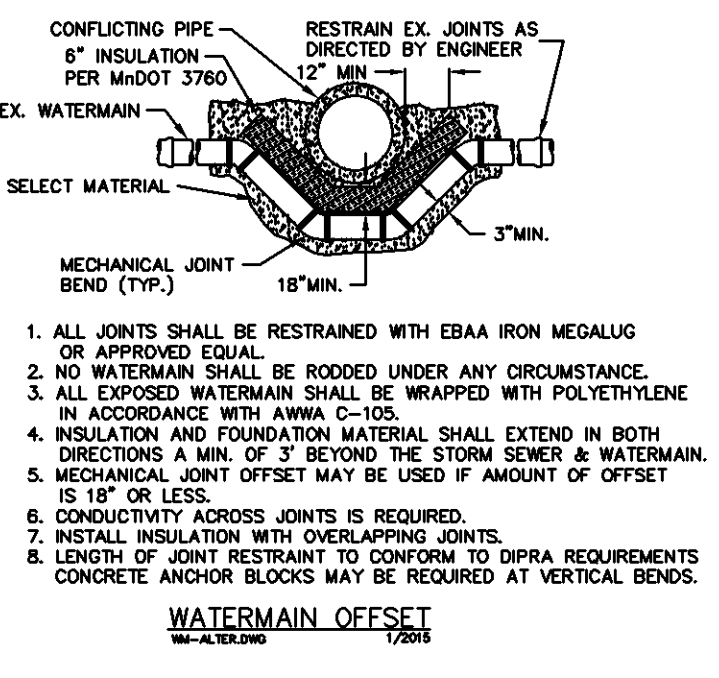
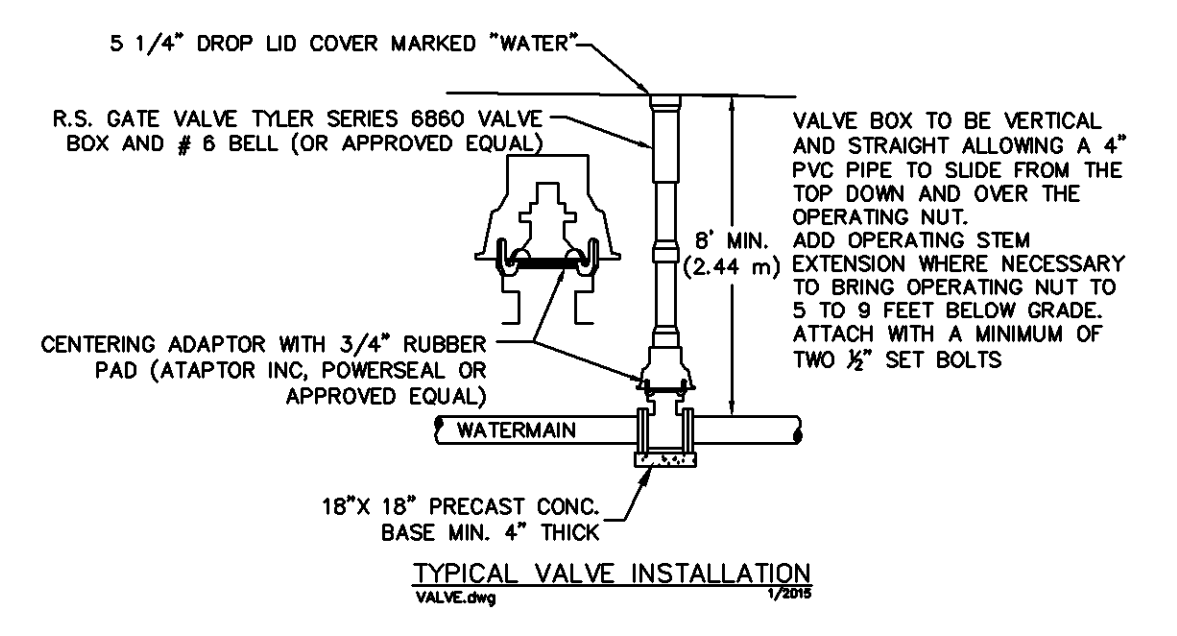
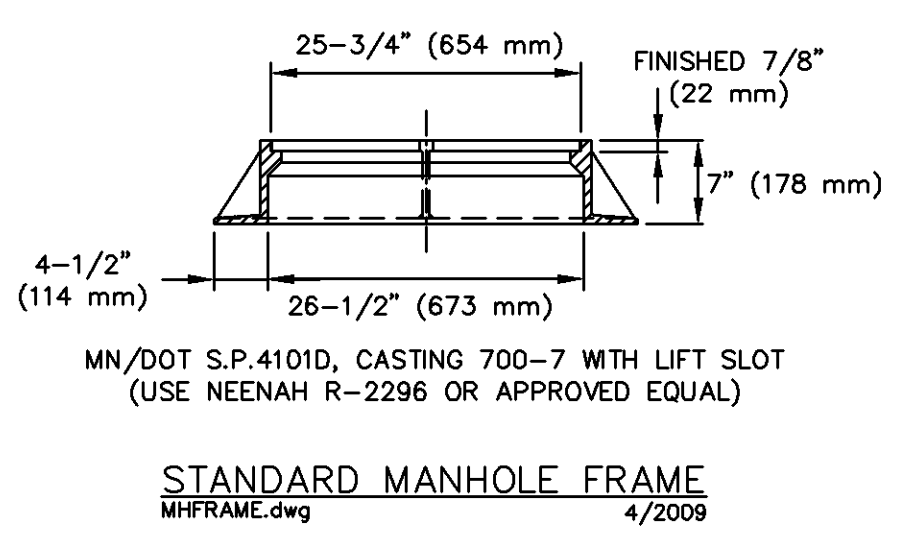
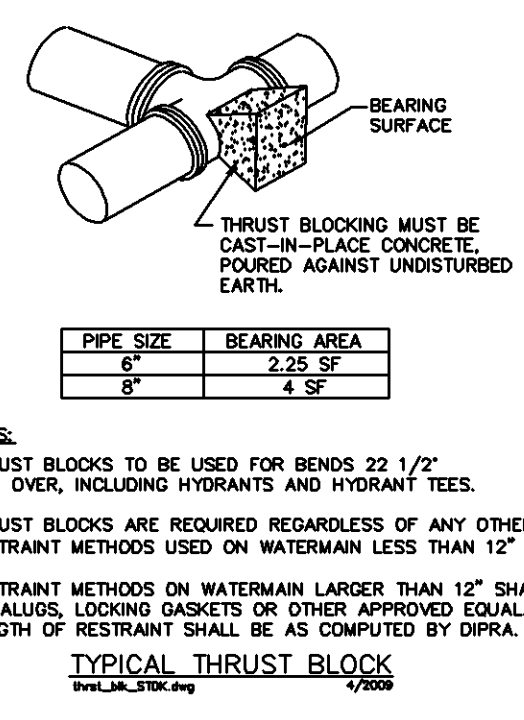
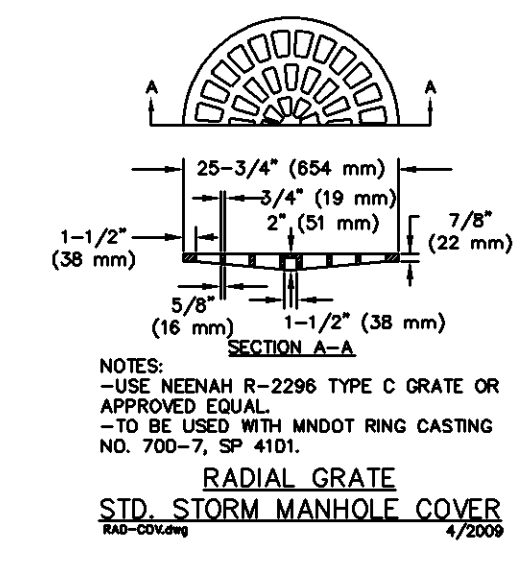
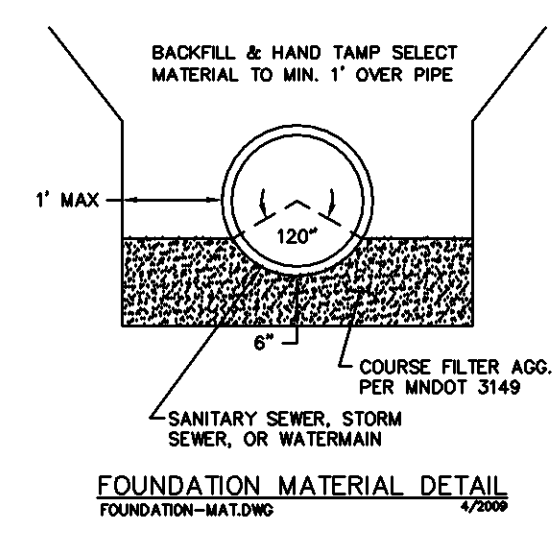
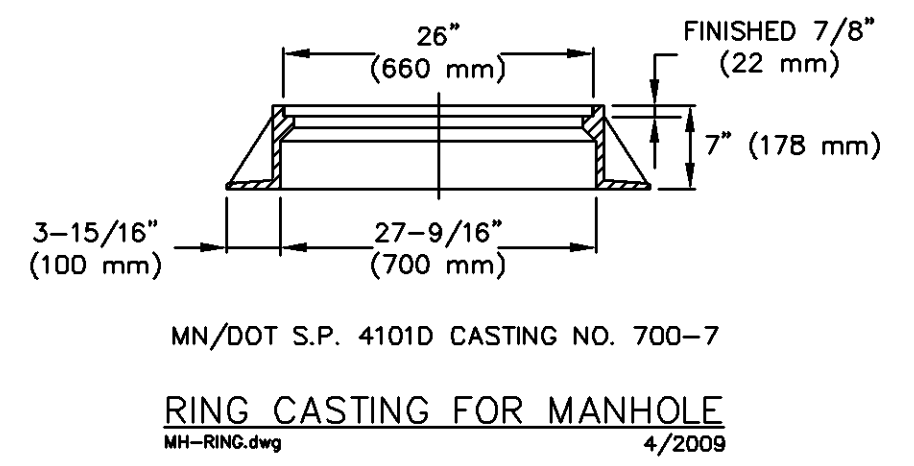
SHEET NUMBER
C600

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- KEY NOTES:**
- MIN/DOT S.P.4101D 2" ADJUSTING RINGS AS NEEDED (5" MIN. TO 12" MAX.) SET EACH RING IN FULL BED OF MORTAR.
 - MIN/DOT S.P.4010 STD. SHORT CONE SECTION.
 - 12" TOP SECTION REQUIRED.
 - USE ONLY PRECAST SECTIONS. NO BRICK OR BLOCK.
 - 6" CAST-IN-PLACE CONCRETE OR 6" PRECAST REINFORCED CONCRETE (64" MINIMUM DIA).
 - CEMENT MORTAR ALL AROUND.
 - LEAN CONCRETE TO BEAR AGAINST FIRM UNDISTURBED SOIL.
 - PROVIDE WATER TIGHT PIPE CONNECTIONS SEE DETAIL THIS SHEET.
 - O-RING GASKET.
 - FOR CONNECTION TO EXISTING MH'S, CORE DRILL OPENING AND PROVIDE TYPE B WATER TIGHT CONNECTOR.
 - 6" SAND OR FOUNDATION MATERIAL.
 - UNDISTURBED SOIL OR COMPACTED SUBGRADE.



PRELIMINARY - NOT FOR CONSTRUCTION

CLOVER SHOPPING CENTER REDEVELOPMENT
 PREPARED FOR **KRAUS ANDERSON DEVELOPMENT**
 BLOOMINGTON, MN

UTILITY DETAILS

KHA PROJECT: 16051001
 DATE: 09/08/2021
 SCALE: AS SHOWN
 DESIGNED BY: KTI
 DRAWN BY: VLB
 CHECKED BY: JDS

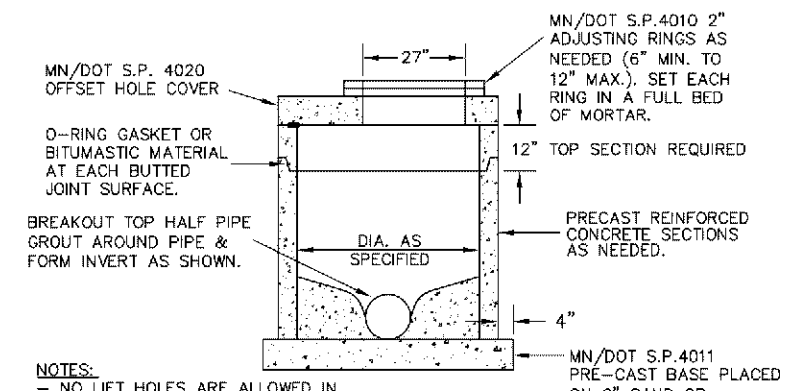
Kimley»Horn
 2021 KIMLEY-HORN AND ASSOCIATES, INC.
 767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114
 PHONE: 651-442-4187
 WWW.KIMLEY-HORN.COM

No.	REVISIONS	DATE	BY

K:\TWC_LDEV\KRAUS_ANDERSON\CLOVER SHOPPING CENTER\CAD\Plan\Sheets\C6-UTILITY DETAILS_2.dwg September 08, 2021 - 1:45pm

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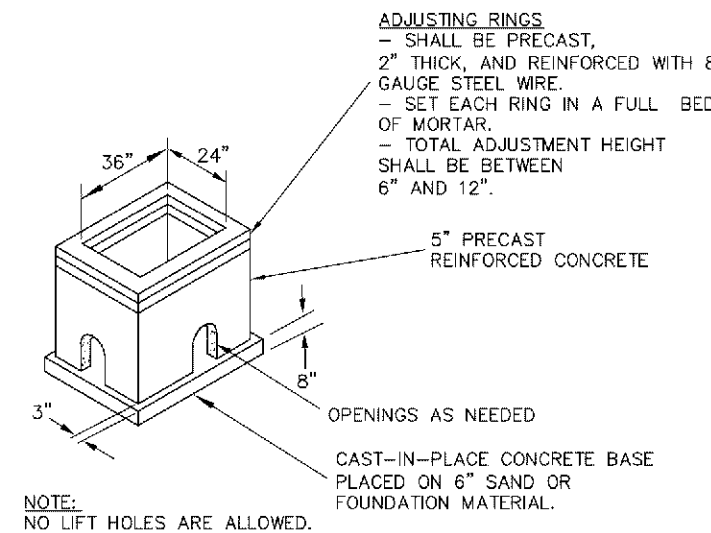
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200 - STANDARD MANHOLE
DESIGN SPEC. X, X & X
200 - STD MH

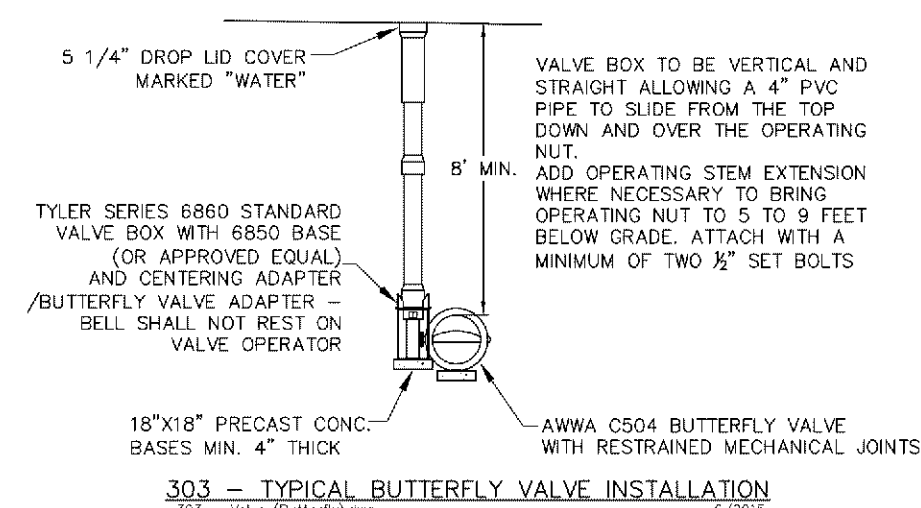
Include detail for Non-Residential Commercial Driveway Entrance

CITY OF BLOOMINGTON, MINNESOTA		1700 W 96TH ST, BLOOMINGTON, MN 55421, PHONE (612) 363-4700	PLATE NAME: 200 - Std MH
ENGINEERING DIVISION	LAST REVISED: 9/13/2016	PUBLIC WORKS DEPARTMENT	
	LAST REVISED BY: KBO		



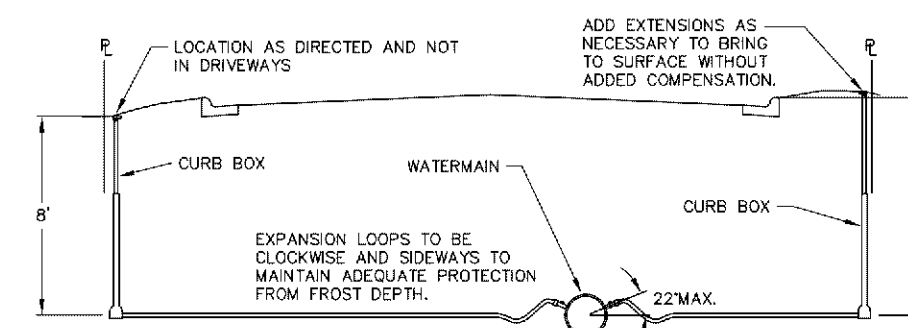
206 - STD CB

CITY OF BLOOMINGTON, MINNESOTA		1700 W 96TH ST, BLOOMINGTON, MN 55421, PHONE (612) 363-4700	PLATE NAME: 206 - Std CB
ENGINEERING DIVISION	LAST REVISED: 9/14/2016	PUBLIC WORKS DEPARTMENT	
	LAST REVISED BY: KBO		



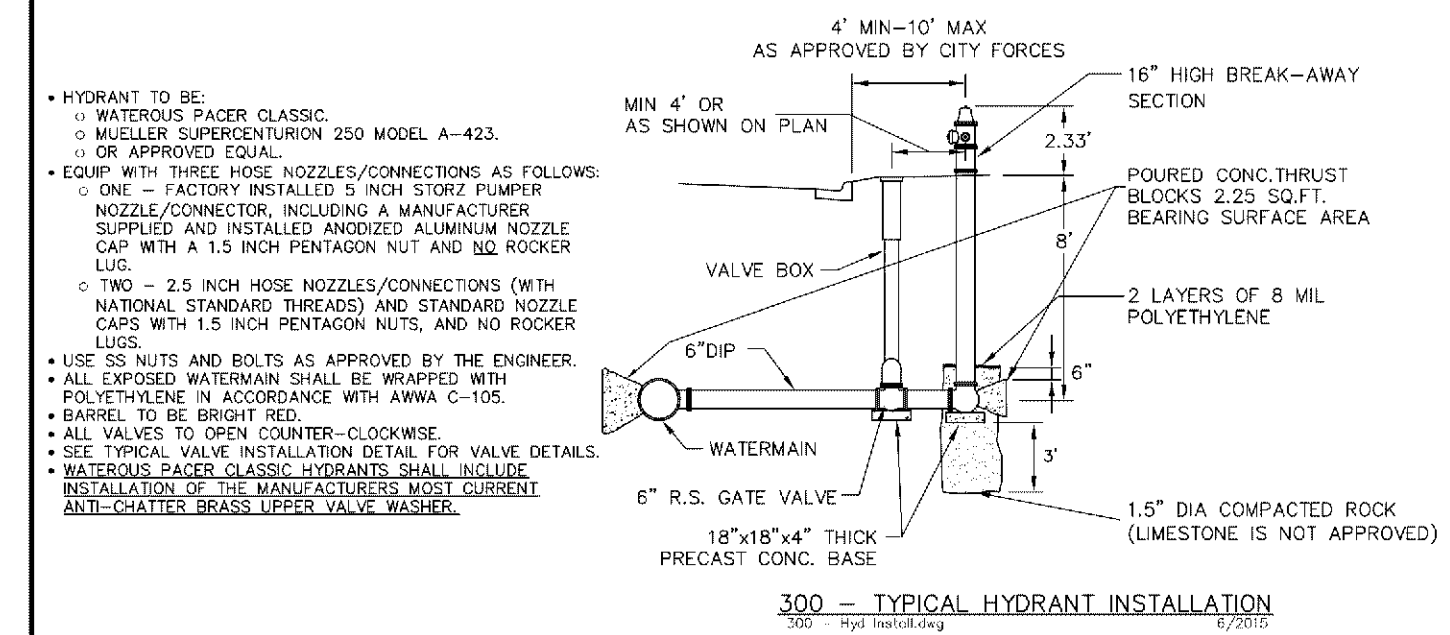
303 - TYPICAL BUTTERFLY VALVE INSTALLATION

CITY OF BLOOMINGTON, MINNESOTA		1700 W 96TH ST, BLOOMINGTON, MN 55421, PHONE (612) 363-4700	PLATE NAME: 303 - Valve (Butterfly)
ENGINEERING DIVISION	LAST REVISED: 6/15/2015	PUBLIC WORKS DEPARTMENT	
	LAST REVISED BY: KBO		



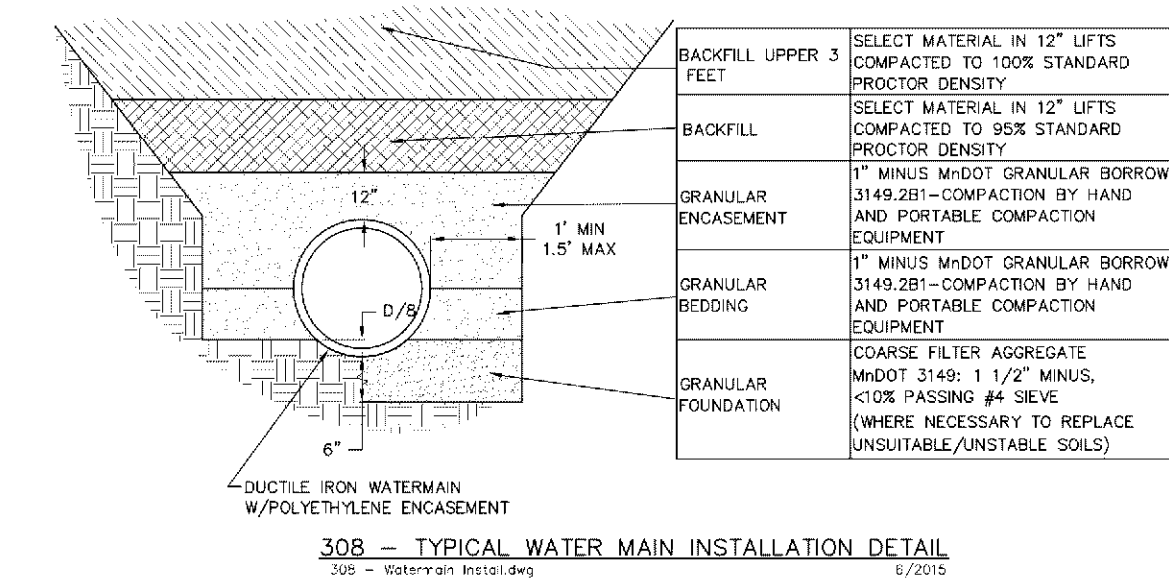
306 - TYPICAL WATER SERVICE

CITY OF BLOOMINGTON, MINNESOTA		1700 W 96TH ST, BLOOMINGTON, MN 55421, PHONE (612) 363-4700	PLATE NAME: 306 - Wat Serv
ENGINEERING DIVISION	LAST REVISED: 6/15/2015	PUBLIC WORKS DEPARTMENT	
	LAST REVISED BY: KBO		



300 - TYPICAL HYDRANT INSTALLATION

CITY OF BLOOMINGTON, MINNESOTA		1700 W 96TH ST, BLOOMINGTON, MN 55421, PHONE (612) 363-4700	PLATE NAME: 300 - Hyd Install
ENGINEERING DIVISION	LAST REVISED: 6/15/2015	PUBLIC WORKS DEPARTMENT	
	LAST REVISED BY: KBO		



308 - TYPICAL WATER MAIN INSTALLATION DETAIL

CITY OF BLOOMINGTON, MINNESOTA		1700 W 96TH ST, BLOOMINGTON, MN 55421, PHONE (612) 363-4700	PLATE NAME: 308 - Watermain Install
ENGINEERING DIVISION	LAST REVISED: 6/15/2015	PUBLIC WORKS DEPARTMENT	
	LAST REVISED BY: KBO		

PRELIMINARY - NOT FOR CONSTRUCTION

CLOVER SHOPPING CENTER REDEVELOPMENT PREPARED FOR KRAUS ANDERSON DEVELOPMENT BLOOMINGTON MN

UTILITY DETAILS

THESE DRAWINGS HAVE BEEN 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.

KHA PROJECT	16051001	DATE	09/08/2021	SCALE	AS SHOWN	DESIGNED BY	KTI	DRAWN BY	VLB	CHECKED BY	JDS
JASON D. SCRIVANOW MN LIC. NO. 9892021 DATE: 9/20/21											

Kimley»Horn

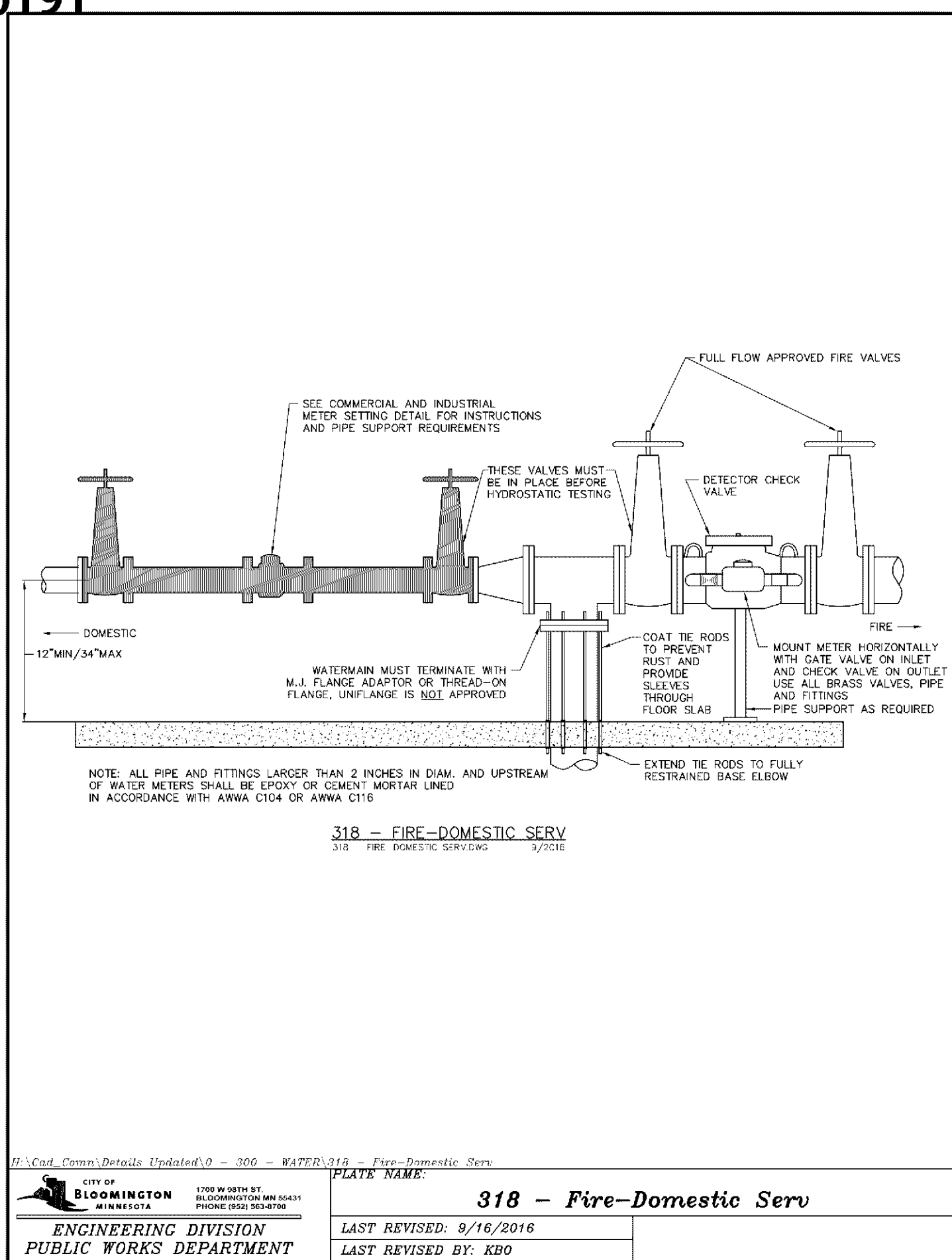
2021 KIMLEY-HORN AND ASSOCIATES, INC.
767 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114
PHONE: 651-442-4187
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No.	REVISIONS	DATE	BY

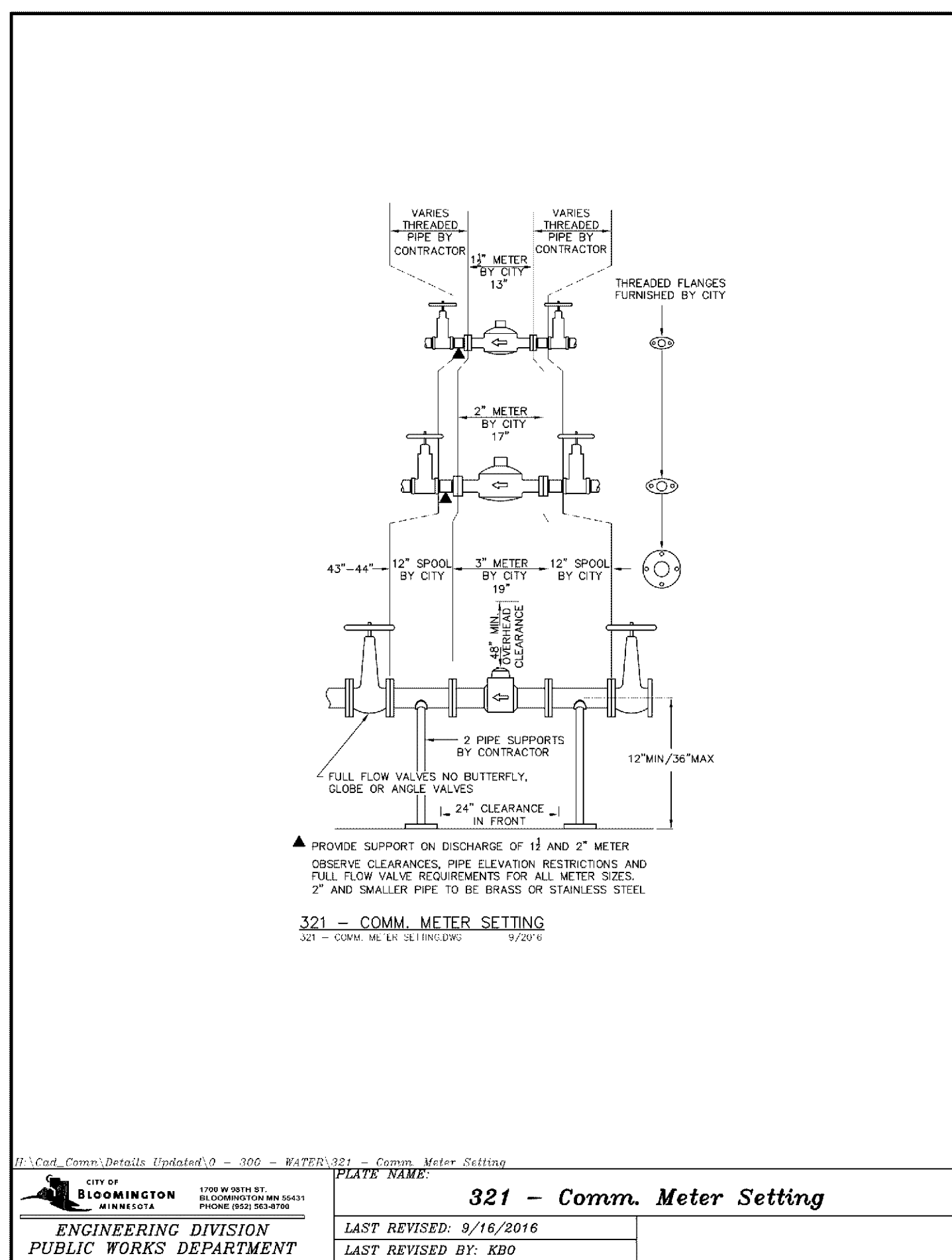
SHEET NUMBER C602

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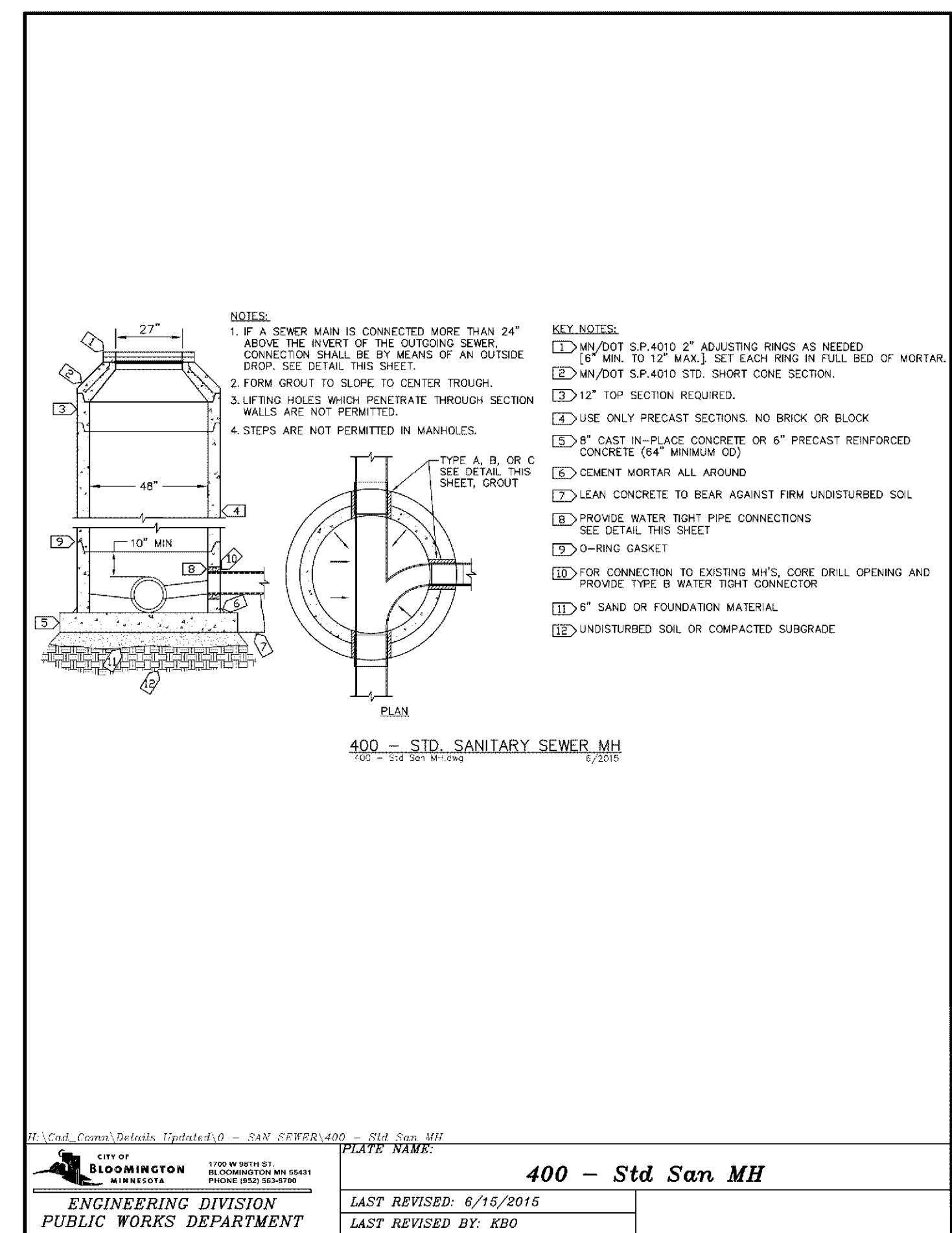
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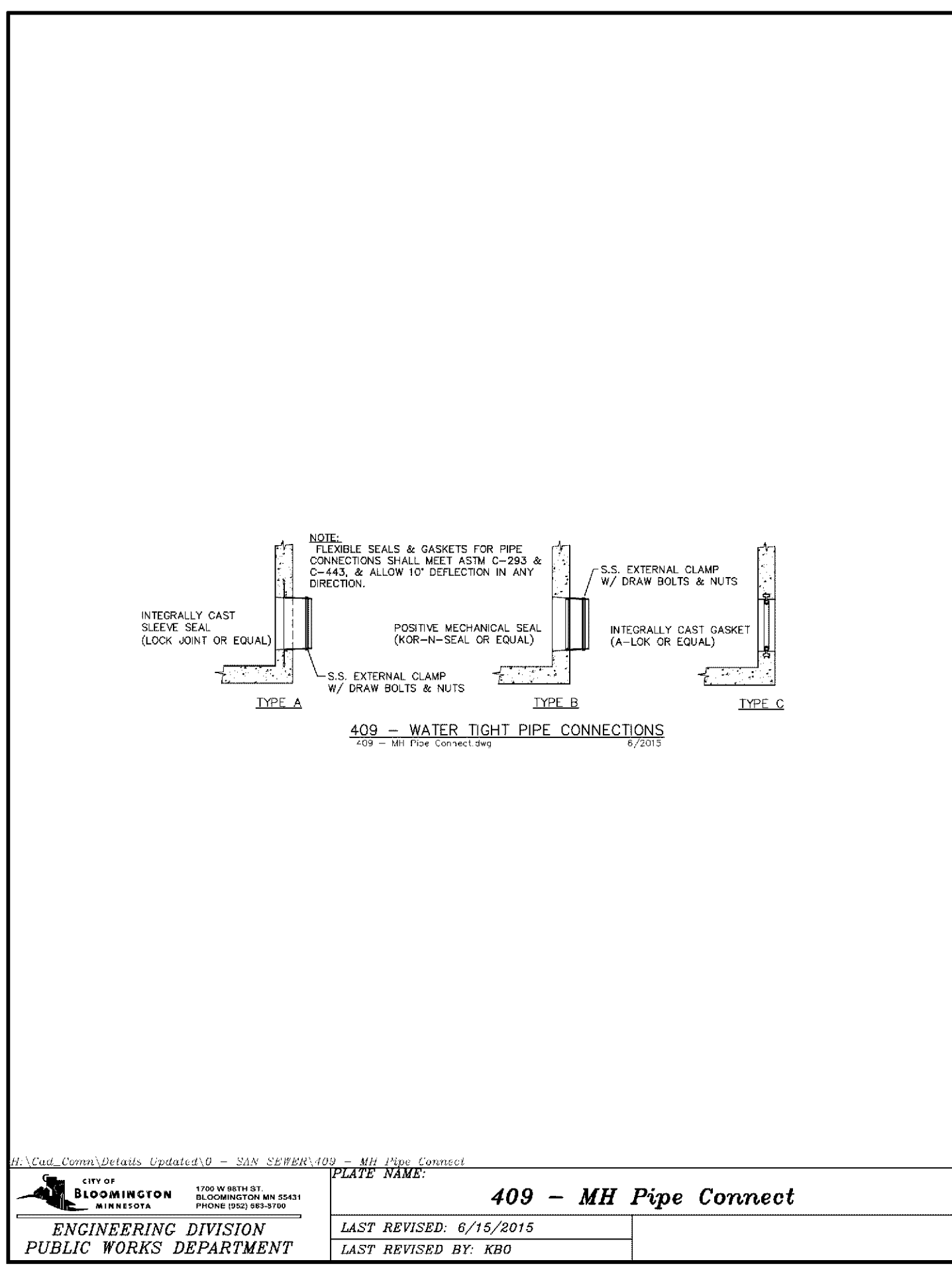
CITY OF BLOOMINGTON 1700 W. WIRTH ST. BLOOMINGTON, MN 55411 PHONE: (952) 893-3140		PLATE NAME: 318 - Fire-Domestic Serv
ENGINEERING DIVISION PUBLIC WORKS DEPARTMENT	LAST REVISED: 9/16/2016 LAST REVISED BY: KBO	CITY OF BLOOMINGTON 1700 W. WIRTH ST. BLOOMINGTON, MN 55411 PHONE: (952) 893-3140



CITY OF BLOOMINGTON 1700 W. WIRTH ST. BLOOMINGTON, MN 55411 PHONE: (952) 893-3140		PLATE NAME: 321 - Comm. Meter Setting
ENGINEERING DIVISION PUBLIC WORKS DEPARTMENT	LAST REVISED: 9/16/2016 LAST REVISED BY: KBO	CITY OF BLOOMINGTON 1700 W. WIRTH ST. BLOOMINGTON, MN 55411 PHONE: (952) 893-3140



CITY OF BLOOMINGTON 1700 W. WIRTH ST. BLOOMINGTON, MN 55411 PHONE: (952) 893-3140		PLATE NAME: 400 - Std. San. MH
ENGINEERING DIVISION PUBLIC WORKS DEPARTMENT	LAST REVISED: 6/15/2015 LAST REVISED BY: KBO	CITY OF BLOOMINGTON 1700 W. WIRTH ST. BLOOMINGTON, MN 55411 PHONE: (952) 893-3140



CITY OF BLOOMINGTON 1700 W. WIRTH ST. BLOOMINGTON, MN 55411 PHONE: (952) 893-3140		PLATE NAME: 409 - MH Pipe Connect
ENGINEERING DIVISION PUBLIC WORKS DEPARTMENT	LAST REVISED: 6/15/2015 LAST REVISED BY: KBO	CITY OF BLOOMINGTON 1700 W. WIRTH ST. BLOOMINGTON, MN 55411 PHONE: (952) 893-3140

PRELIMINARY - NOT FOR CONSTRUCTION

CLOVER SHOPPING CENTER
 REDEVELOPMENT
 PREPARED FOR
 KRAUS ANDERSON
 DEVELOPMENT

UTILITY DETAILS

KHA PROJECT	16051001
DATE	09/08/2021
SCALE	AS SHOWN
DESIGNED BY	KTI
DRAWN BY	VLD
CHECKED BY	JDS

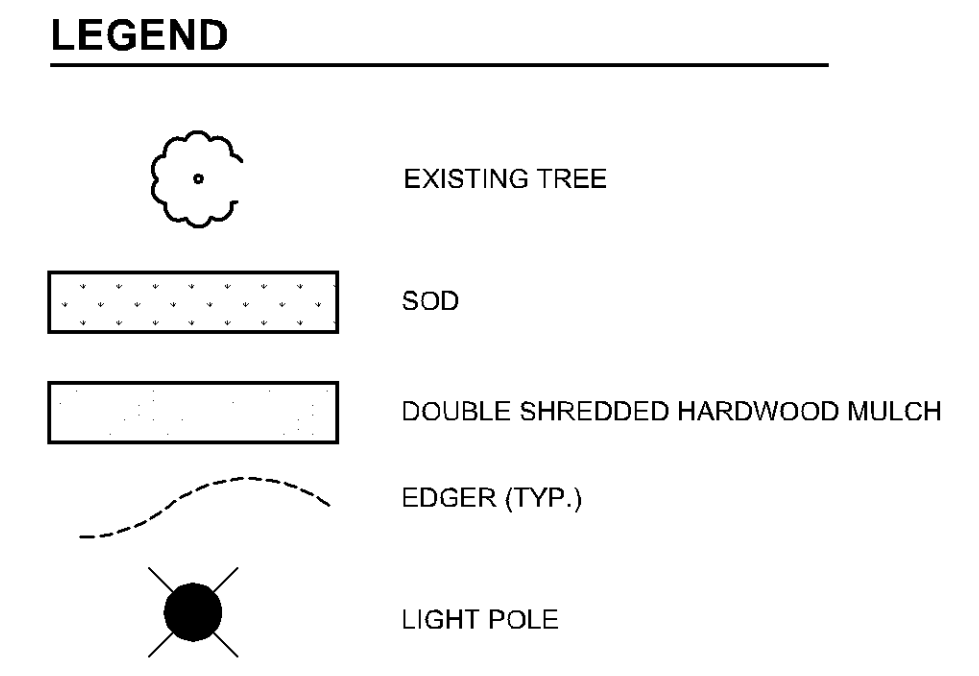
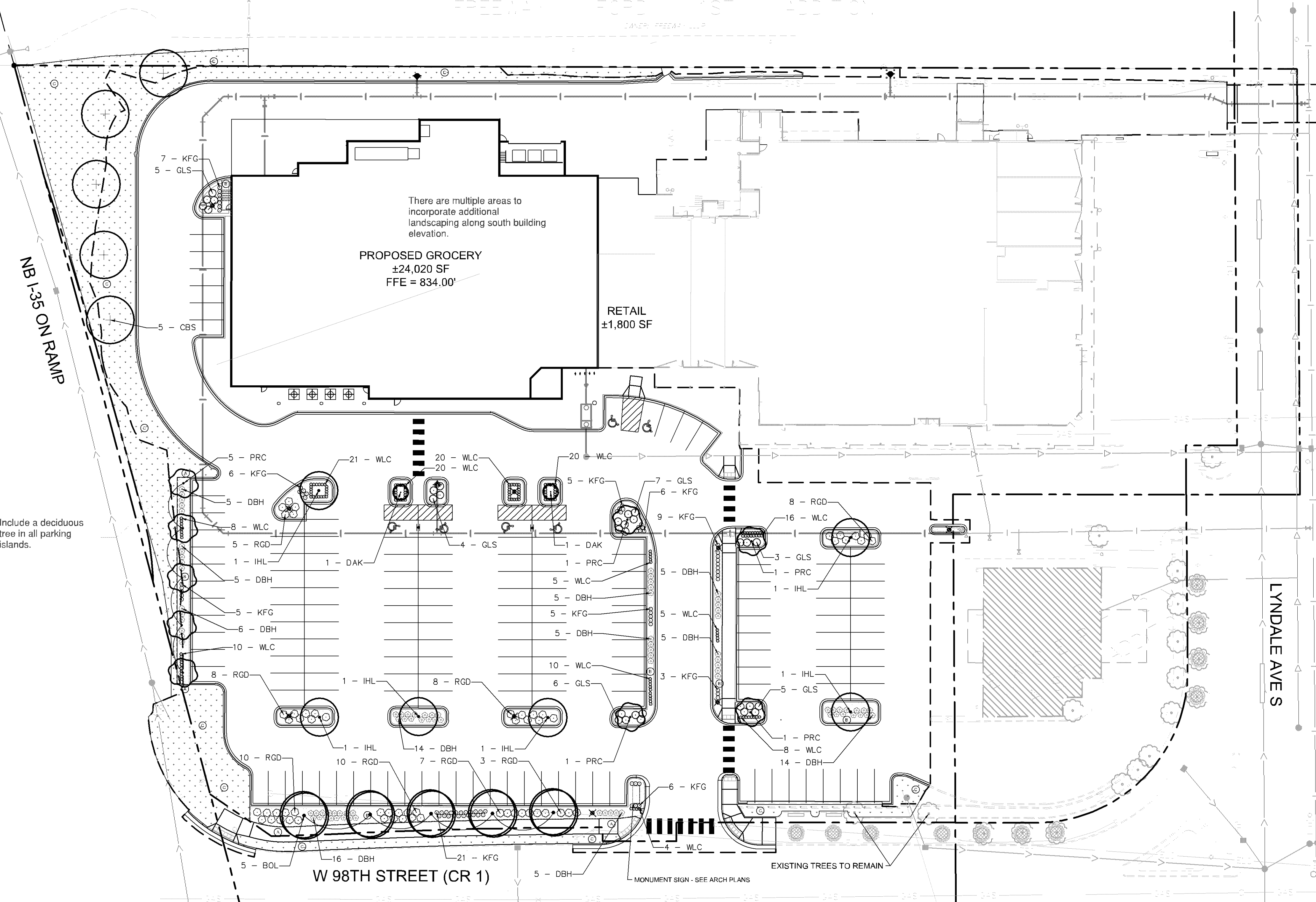
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No.	REVISIONS	DATE	BY

SHEET NUMBER
C603

K:\TWC_LDEV\KRAUS_ANDERSON\SHOPPING CENTER\3 Design\CAD\Plan\Sheets\1-LANDSCAPE PLAN.dwg September 08, 2021 - 1:45pm
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PL202100191



- LANDSCAPE KEYNOTES**
- (A) EDGER (TYP.)
 - (B) DOUBLE SHREDDED HARDWOOD MULCH (TYP.)
 - (C) SOD (TYP.)

LANDSCAPE CODE SUMMARY

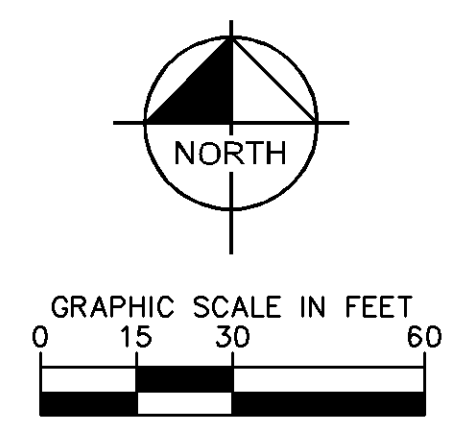
CODE	REQUIRED	PROPOSED
THERE SHALL BE ONE TREE PER 2,500 SF OF DEVELOPABLE LANDSCAPING AREA, DEFINED AS TOTAL AREA OF DEVELOPABLE SITE MINUS THAT OF NATURAL WATER BODIES, PROTECTED WETLANDS, NATURAL SIGNIFICANT WOODED AREAS, OR SCENIC EASEMENTS.	148,316 SF / 2,500 = 59.32	27 PROPOSED TREES
B4 ZONE ALLOWED 25% REDUCTION	60 X 0.75 = 45	2 EXISTING TREES TO PROTECT
THERE SHALL BE ONE SHRUB PER 1,000 SF OF DEVELOPABLE LANDSCAPING UP TO 50% OF REQUIRED SHRUBS MAY BE PERENNIALS, FOUR PERENNIALS ARE EQUAL TO ONE SHRUB.	148,316 / 1,000 = 148.31	29 TREES
A MINIMUM OF ONE TREE MUST BE PROVIDED PER PARKING LOT ISLAND.	149 UNITS	(173 SHRUBS, 220 PERENNIALS) 173 * (220 / 4) = 228
	SEE PLAN	228 UNITS

Revise plan to include at least 44 trees. Landscaping, including at least a few trees, should be incorporated in front of the grocery.

PLANT SCHEDULE

QTY	BOTANICAL / COMMON NAME	CONT	CAL
5	CONIFEROUS TREE CBS PICEA PUNGENS / COLORADO SPRUCE	B & B	6' HT. MIN.
5	DECIDUOUS TREES IHL GLEDITSIA TRIACANTHOS VAR. INERMIS 'IMPERIAL' / IMPERIAL HONEYLOCUST	B & B	2.5" CAL.
5	BOL TILIA AMERICANA 'BOULEVARD' / BOULEVARD LINDEN	B & B	2.5" CAL.
2	ORNAMENTAL TREE DAK BETULA PLATYPHYLLA 'FARGO' / DAKOTA PINNACLE BIRCH	B & B	2" CAL.
9	PRC MALUS IOENSIS 'PRAIRIE ROSE' / PRAIRIE ROSE CRABAPPLE	B & B	2" CAL.
73	PERENNIALS KFG CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS	SIZE #1 CONT.	SPACING
147	WLC NEPETA X FAASSENII 'WALKER'S LOW' / WALKER'S LOW CATMINT	#1 CONT.	
59	DECIDUOUS SHRUBS RGD CORNUS ALBA SIBIRICA 'RED GNOME' / RED GNOME DOGWOOD	SIZE #5 CONT.	SPACING 4' O.C.
85	DBH DIERVILLA LONICERA / DWARF BUSH HONEYSUCKLE	#5 CONT.	3' O.C.
30	GLS RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	#5 CONT.	4' O.C.
	GROUND COVERS		

Are these trees going to prohibit snow plowing operations?
 Include a deciduous tree in all parking islands.



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CLOVER SHOPPING CENTER REDEVELOPMENT

PREPARED FOR **KRAUS ANDERSON DEVELOPMENT**

Kimley»Horn
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 787 EUSTIS STREET, SUITE 100, ST. PAUL, MN 55114
 PHONE: 651-452-4187
 WWW.KIMLEY-HORN.COM

LIBRARY CENTER: 10/10/2021
 DATE: 09/08/2021
 SCALE: AS SHOWN
 DESIGNED BY: BPS
 DRAWN BY: BPS
 CHECKED BY: MGC

REVISIONS

No.	DATE	BY

DATE: 9/8/2021 LIC. NO. 95522
 MITCHELL G. COOKAS
 MN

LANDSCAPE PLAN

SHEET NUMBER **L100**

