

P:\2015\150464F\1 CAD - TWM\1. Comm\150464F-01C Outparcel 13 Improvement Plan.dwg Plotted By: Becker

SUMMARY TABLE

PARCEL NUMBER: 14-2-15-23-00-000-083  
SITE ADDRESS: 2041 TROY ROAD,  
EDWARDSVILLE, ILLINOIS  
GROSS LOT AREA: 6.94± ACRES  
PROPOSED ZONING: CG, VILLAGE OF GLEN CARBON

F.E.M.A. CLASSIFICATION

ZONE "C" FEMA PANEL #1704360095B (AREA OF MINIMAL FLOOD HAZARD)  
EFFECTIVE DATE: APRIL 15, 1982

UTILITIES

WATER:	VILLAGE OF GLEN CARBON	(618) 288-2661
WATER:	CITY OF EDWARDSVILLE	(618) 692-7535
SANITARY SEWER:	VILLAGE OF GLEN CARBON	(618) 288-2661
ELECTRIC:	AMEREN IP	(800) 755-5000
GAS:	AMEREN IP	(800) 755-5000
TELEPHONE:	AT&T	(800) 244-4444
FIBER OPTIC:	AT&T	(800) 762-0592
J.U.L.I.E.:		(800) 892-0123

DRIVEWAY, SIDEWALK AND PARKING LOT CERTIFICATION

THE OWNER AND/OR BUILDER/DEVELOPER WITH CONSULTATION OF A QUALIFIED PROFESSIONAL ENGINEER WILL INSURE ADEQUATE COMPACTION OF GRADES UNDER SIDEWALKS, DRIVEWAYS AND PARKING LOTS WHEN INSTALLED OVER PUBLIC ROAD RIGHT-OF-WAY AND EASEMENTS. THE VILLAGE OF GLEN CARBON ASSUMES NO RESPONSIBILITY FOR ANY SETTLEMENT OR PAVEMENT DAMAGE AND THE OWNER AND/OR BUILDER/DEVELOPER HEREBY AGREES TO HOLD THE VILLAGE HARMLESS FROM ANY FUTURE COSTS OR MAINTENANCE OF SAID SIDEWALKS, DRIVEWAYS AND/OR PARKING LOTS.

OWNER \_\_\_\_\_

BUILDER/DEVELOPER \_\_\_\_\_

DRAINAGE STATEMENT

WE THE UNDERSIGNED, DO HEREBY CERTIFY TO THE BEST OF OUR KNOWLEDGE AND BELIEF THAT DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF SUCH SITE OR ANY PART THEREOF, OR THAT IF SUCH SURFACE WATER WILL BE CHANGED, ADEQUATE PROVISIONS HAVE BEEN MADE FOR COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE SUBDIVIDER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATERS WILL NOT BE DEPOSITED ON THE PROPERTY OF ADJOINING LAND OWNERS IN SUCH CONCENTRATIONS AS MAY CAUSE DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THE DEVELOPED SITE.

OWNER \_\_\_\_\_

ENGINEER \_\_\_\_\_

CERTIFICATE OF BOARD OF TRUSTEES

I, ROBERT MARCUS, PRESIDENT OF THE VILLAGE OF GLEN CARBON, DO HEREBY CERTIFY THAT THE SITE PLAN SHOWN HEREIN WAS DULY PRESENTED TO THE BOARD OF TRUSTEES AND APPROVED AT A MEETING OF SAME HELD ON \_\_\_\_\_, 2023.

PRESIDENT \_\_\_\_\_

VILLAGE CLERK \_\_\_\_\_

VILLAGE APPROVAL:

THE IMPROVEMENT PLANS FOR ORCHARD TOWN CENTER OUTPARCEL 13 WAS APPROVED BY THE VILLAGE OF GLEN CARBON, ILLINOIS ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 2023.

PUBLIC WORKS DIRECTOR \_\_\_\_\_

DATE \_\_\_\_\_

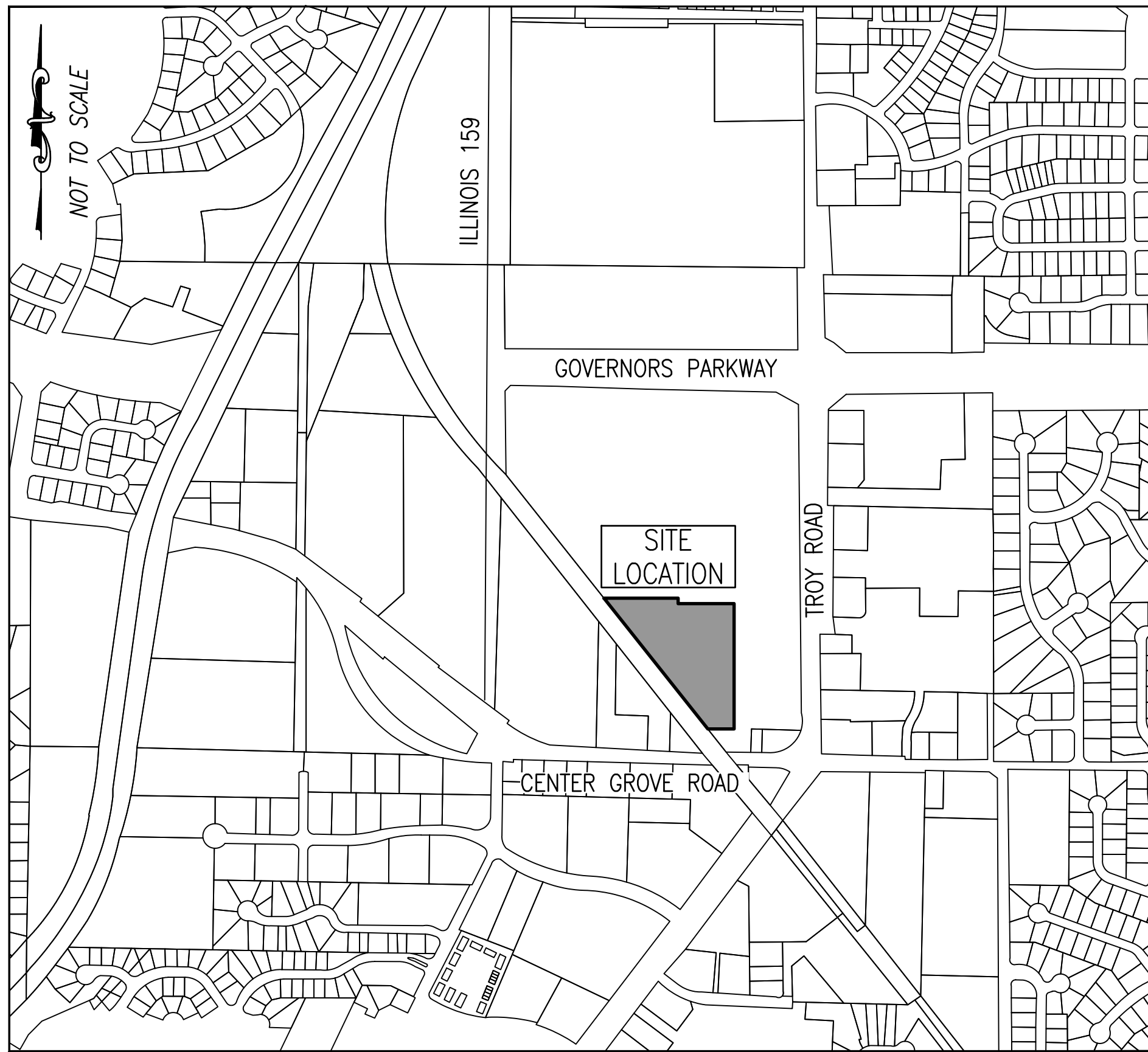
DIRECTOR OF COMMUNITY DEVELOPMENT \_\_\_\_\_

DATE \_\_\_\_\_

# ORCHARD TOWN CENTER OUTPARCEL 13 GLEN CARBON, ILLINOIS

## CIVIL SITE DRAWINGS

PART OF THE NORTHEAST QUARTER OF SECTION 23, TOWNSHIP 4  
NORTH, RANGE 8 WEST OF THE THIRD PRINCIPAL MERIDIAN,  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS



PROJECT LOCATION  
NOT TO SCALE

OWNER  
CONTACT INFORMATION:

TSG ORCHARD TOWN CENTER, LLC.  
2127 INNERBELT BUSINESS CENTER DRIVE  
ST. LOUIS, MISSOURI 63114  
(314) 513-1500  
DARREN RIDENHOUR

ENGINEER/SURVEYOR  
CONTACT INFORMATION:

THOUVENOT, WADE, AND MOERCHEN, INC.  
4940 OLD COLLINSVILLE ROAD  
SWANSEA, ILLINOIS 62226  
(618) 624-4488

CLIENT MANAGER:  
MARSHA MALLER, P.E.  
mmaller@twm-inc.com

LAND DEVELOPMENT MANAGER:  
NICK SMOCK, P.E.  
nsmock@twm-inc.com

PROJECT MANAGER:  
DANA LINK, P.E.  
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SURVEY MANAGER:  
DEREK TWENTE, P.L.S.  
dtwente@twm-inc.com

### NO. DRAWING TITLE

C1.0 COVER SHEET AND GENERAL NOTES  
C1.1 GENERAL NOTES

C2.0 EXISTING TOPOGRAPHY

C3.0 OVERALL SITE PLAN  
C3.1 SITE PLAN - ENTRANCE  
C3.2 SITE PLAN - NORTH  
C3.3 SITE PLAN - SOUTH  
C3.4 BIKE PATH PLAN AND PROFILE

C4.0 OVERALL GRADING AND SEDIMENT CONTROL PLAN  
C4.1 GRADING PLAN - ENTRANCE  
C4.2 GRADING PLAN - NORTH  
C4.3 GRADING PLAN - SOUTH  
C4.4 SPOT ELEVATION PLAN - ENTRANCE  
C4.5 SPOT ELEVATION PLAN - NORTH  
C4.6 SPOT ELEVATION PLAN - SOUTH

C5.0 OVERALL UTILITY PLAN  
C5.1 UTILITY PLAN - ENTRANCE  
C5.2 UTILITY PLAN - NORTH  
C5.3 UTILITY PLAN - SOUTH  
C5.4 SANITARY SEWER SERVICE PLAN AND PROFILE - BUILDING A  
C5.5 SANITARY SEWER SERVICE PLAN AND PROFILE - BUILDING B  
C5.6 SANITARY SEWER SERVICE PLAN AND PROFILE - BUILDING C  
C5.7 STORM SEWER PROFILES  
C5.8 STORM SEWER PROFILES

C6.0 SEDIMENT CONTROL DETAILS  
C6.1 SANITARY SEWER DETAILS  
C6.2 STORM SEWER DETAILS  
C6.3 WATER MAIN DETAILS  
C6.4 ACCESSIBILITY DETAILS  
C6.5 PAVEMENT DETAILS



CONSULTING ENGINEERING  
GEOSPATIAL SERVICES

ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA
MISSOURI	ST. CHARLES ST. LOUIS COLUMBIA
TENNESSEE	NASHVILLE CHATTANOOGA

### THOUVENOT, WADE & MOERCHEN, INC.

SWANSEA OFFICE  
4940 OLD COLLINSVILLE RD.  
SWANSEA, ILLINOIS  
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PROF. LICENSE	NUMBER
IL. PROF. DESIGN FIRM	184-001220
IL. PROF. ENGR. CORP.	62-035370
IL. PROF. STR. ENGR. CORP.	81-005202
IL. PROF. LAND SURV. CORP.	048-000029
KS. PROF. ENGR. FACILITY	E-3256
MO. PROF. ENGR. CORP.	001528
MO. LAND SURVEYING CORP.	000346
TN. PROF. ENGR. FIRM	8974

SEAL



SIGNATURE: *Dana Link*  
DATE SIGNED: 08/14/2023  
LICENSE EXPIRATION: 11/30/2023

ISSUED FOR REVIEW  
AUGUST 14, 2023

REV.	DATE	DESCRIPTION
△	08-24-23	VILLAGE OF GLEN CARBON REVIEW
△		
△		
△		
△		

DRAWN BY: DAB  
DESIGNED BY: DLL  
CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

COVER SHEET  
AND GENERAL NOTES

C1.0

PRELIMINARY



GENERAL NOTES:

PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL REVIEW ALL PLANS, SPECIFICATIONS, AND THE PROJECT SITE(S). THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER AND THE ENGINEER WHO PREPARED THE PLANS OF ANY DISCREPANCIES THAT MAY REQUIRE MODIFICATION TO THESE PLANS OR OF ANY FIELD CONFLICTS.

SHOULD IT APPEAR THAT THE WORK TO BE PERFORMED OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

THESE PLANS AND SPECIFICATIONS ARE SUBJECT TO MODIFICATIONS DURING CONSTRUCTION WHEN CONDITIONS DEVELOP THAT WERE NOT APPARENT DURING THE DESIGN AND PREPARATION OF THE PLANS AND SPECIFICATIONS. ALL MODIFICATIONS MUST BE APPROVED BY ALL PERTINENT AGENCIES HAVING JURISDICTION OVER THIS PROJECT PRIOR TO CONSTRUCTION AND/OR IMPLEMENTATION OF ANY PROPOSED CHANGES.

IN THE EVENT OF ANY DISCREPANCY BETWEEN ANY DRAWING AND THE FIGURES WRITTEN THEREON, THE FIGURES SHALL BE TAKEN AS CORRECT.

THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PROJECT SITE(S) CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

TWM, INC. SHALL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES IN CONNECTION WITH THE WORK.

ALL WORKMANSHIP, EQUIPMENT, MATERIALS, AND TESTING SHALL CONFORM TO THE PERTINENT MUNICIPAL, COUNTY, STATE, AND FEDERAL JURISDICTIONS AND AGENCIES HAVING AUTHORITY OVER THIS PROJECT. IN ADDITION, ALL WORKMANSHIP, EQUIPMENT, MATERIALS, AND TESTING SHALL CONFORM TO THE RESPECTIVE UTILITY COMPANY REQUIREMENTS. ALL EQUIPMENT, MATERIALS, AND PRODUCTS SHALL BE OF THE LATEST MANUFACTURE AND COMPLY WITH THE MOST UP TO DATE SPECIFICATIONS AT THE TIME OF BIDDING OF THE PROJECT.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND INSTALLING ANY AND ALL TRAFFIC BARRICADES, MARKERS, SIGNS, FLAGMEN, TRAFFIC POLICE, AND/OR OTHER FACILITIES AS MAY BE REQUIRED BY THE VARIOUS JURISDICTIONS HAVING AUTHORITY OVER THIS PROJECT TO PROTECT THE GENERAL PUBLIC. SIGNS AND PROTECTIVE DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY OF NOTIFYING THE STATE AND LOCAL POLICE, EMERGENCY SERVICES AGENCIES, AMBULANCE SERVICES, AND FIRE DEPARTMENTS OF ANY PROPOSED TRAFFIC DIVERSION.

ALL UTILITIES INCLUDING BUT NOT LIMITED TO FIRE HYDRANTS, VALVE PIT COVERS, VALVE BOXES, CURB STOP BOXES, FIRE OR POLICE CALL BOXES, TRAFFIC CONTROL SIGNALS, OR OTHER UTILITY CONTROLS SHALL BE UNOBSSTRUCTED AND ACCESSIBLE DURING THE CONSTRUCTION PERIOD.

WHERE SECTION OR SUBSECTION SURVEY MONUMENTS ARE ENCOUNTERED, THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT, HAVE WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL ITEMS NOTED FOR REMOVAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

ALL EXISTING VEGETATION AND TOPSOIL IS TO BE REMOVED FROM PLANNED CONSTRUCTION AREAS PRIOR TO PLACING FILL.

SOFT SOILS SHOULD BE EXCAVATED PRIOR TO PLACING FILL. IF REMOVAL OF SOFT SOIL IS NOT PRACTICAL DUE TO EXCESSIVE DEPTH, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER TO DISCUSS METHODS OF STABILIZATION.

FILL AREAS IN PAVEMENT AND BUILDING AREAS SHALL BE PLACED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). NATIVE SUBGRADE IN FILL AREAS AND DETENTION BASIN FILL AREAS SHALL BE PLACED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698).

MAXIMUM STRUCTURAL FILL SLOPES SHALL NOT EXCEED 3:1. FILL SLOPES FOR LANDSCAPING BERMS SHALL NOT EXCEED 2:1. EROSION CONTROL MEASURES SHOULD BE CONSIDERED ALONG THE FACE OF EACH SLOPE. EROSION CONTROL MEASURES TYPICALLY EMPLOYED WOULD INCLUDE SILT FENCES, DITCH CHECKS AND TIMELY SEEDING OR SODDING.

COMPACTION TESTS ARE TO BE TAKEN IN STREETS AND BUILDABLE AREAS ON LOTS. COMPACTION TESTS ARE REQUIRED FOR EACH FILL LIFT. NO LIFT TO EXCEED 8" IN DEPTH. CONTRACTOR IS RESPONSIBLE FOR HIRING AN INDEPENDENT TESTING AGENCY THAT WILL COMPLETE COMPACTION TESTING PER THE VILLAGE REQUIREMENTS PRIOR TO PLACING ANY PAVING MATERIAL.

ALL GRADING IN STREETS SHALL BE TO WITHIN ±1 INCH OF SUBGRADE. ALL OTHER GRADES SHALL BE TO WITHIN ±3 INCHES OF THOSE SHOWN ON THE GRADING PLAN.

ALL TOPSOIL REMOVED PRIOR TO BULK EARTH GRADING SHALL BE SPREAD EVENLY OVER THE AREAS TO BE PLANTED TO MEET THE FINAL GRADE PRIOR TO CONCLUDING EARTHWORK ACTIVITIES.

OWNER TO PROVIDE TEMPORARY SEEDING OVER ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES UNLESS OTHERWISE INDICATED ON THE PLANS. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ACCORDANCE WITH SEEDING MIXTURE CLASS 1 AND MULCH METHOD 2, PROCEDURE 2.

ALL EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES DETAILED ON THE IMPROVEMENT PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN. THE MAINTENANCE OF THESE EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE DEVICES THEMSELVES.

ALL TRENCH EXCAVATION FOR ALL UTILITIES WITHIN THREE (3) FEET OF ANY PAVEMENT SURFACE SHALL BE BACKFILL WITH 100% CA-6 AGGREGATE BACK FILL COMPACTED TO 95% COMPACTION. AGGREGATE BACKFILL QUANTITIES BID FOR THE PROJECT WILL BE CONSIDERED THE PAY QUANTITY. ANY ADJUSTMENTS DEEMED NECESSARY BY THE CONTRACTOR WITH RESPECT TO QUANTITY SHALL BE CONSIDERED AT THE TIME OF BIDDING ONLY.

DEWATERING OF AREAS TO BE EXCAVATED OR FILLED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL WORK SHALL CONFORM TO THE ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 205 EXCLUDING NOTE 1 UNDER 205.02.

THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.

PERMANENT FINAL VEGETATION INCLUDING LANDSCAPING SHALL BE INSTALLED AS SOON AS PRACTICAL.

ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE MADISON COUNTY & VILLAGE OF GLEN CARBON ORDINANCES. CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MAINTAINING AND REMOVING ALL REQUIRED TEMPORARY TRAFFIC CONTROL DEVICES.

ALL PERMANENT TRAFFIC CONTROL DEVICES SHALL BE INSTALLED BY THE CONTRACTOR. ALL PERMANENT TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.

ALL SUBGRADE UNDER PAVED AREAS SHALL BE CRUSHED STONE COMPACTED TO 95% STANDARD PROCTOR. ALL SUBGRADE IN CUT AREAS SHALL BE PROOFROLLED, SCARIFIED AND RECOMPACTED AS NEEDED AND UNSUITABLE MATERIAL WILL BE REMOVED AND REPLACED WITH SUITABLE COMPACTED MATERIAL.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUB-GRADE COMPACTION TESTING AND SHALL PROVIDE THE ENGINEER AND OWNER REPORTS WITHIN 2 DAYS OF TESTING AND PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR HIRING INDEPENDENT TESTING AGENCY TO COMPLETE CONCRETE COMPRESSION TESTS ON EACH DAY'S CONCRETE POUR.

CONTRACTOR IS RESPONSIBLE FOR LOCATING AND INSTALLING ALL CURB TRANSITIONS AND DEPRESSED SECTIONS AT ALL ACCESSIBLE RAMP LOCATIONS AND OTHER CURB TRANSITIONS AS DETAILED ON THE PLANS.

UTILITY NOTES:

THE TYPE, SIZE AND LOCATION OF UTILITIES AS DELINEATED ON THE PLANS AND SPECIFICATIONS HAVE BEEN DETERMINED BY REVIEW OF AVAILABLE EXISTING "AS-BUILT," OR "RECORD" DRAWINGS; FIELD SURVEY OF J.U.L.I.E. MARKED UTILITIES; OR FIELD SURVEY OF ABOVE GROUND SURFACE UTILITY FEATURES. THE OWNER AND ENGINEER HAVE NOT UNDERTAKEN SURFACE OR SUB-SURFACE EXPLORATORY INVESTIGATIONS TO CONFIRM OR VERIFY THE LOCATION OF UTILITIES ON THE PROJECT SITE. THEREFORE ALL UTILITY LOCATIONS, SIZE, AND FUNCTION MUST BE CONSIDERED APPROXIMATE AND THE CONTRACTOR MUST VERIFY ALL UTILITIES IN THE FIELD.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. AND/OR THE PERTINENT UTILITY FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION OPERATIONS. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DESIGN COORDINATION.

ANY RELOCATION OF PUBLIC OR PRIVATE UTILITIES SHALL BE UNDERTAKEN IN ACCORDANCE WITH ALL REQUIREMENTS OF THE UTILITY COMPANY AND WITH REGARD TO THE REQUIRED FEES, BONDS, PERMITS, AGREEMENTS, WORKING CONDITIONS, ETC. OF SAID COMPANY OR JURISDICTION. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND JURISDICTIONS A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF WORK TO ALLOW THE UTILITIES TO MARK THEIR LINES OR TO ALLOW THE PERTINENT JURISDICTIONS TIME TO COORDINATE THEIR STAFF, MATERIALS, AND EQUIPMENT TO CONDUCT INSPECTION.

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING STRUCTURES, AND/OR UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY OR JURISDICTION TO PROPERLY REPAIR ANY FACILITIES DAMAGED IN THE COURSE OF THE WORK.

ALL ABANDONED UNDERGROUND STRUCTURES ENCOUNTERED SHALL BE REMOVED TO SUFFICIENT DEPTH TO ALLOW UNDERGROUND UTILITIES TO CROSS.

UTILITIES AND APPURTENANCES TO REMAIN IN THEIR PRESENT LOCATION SHALL BE ADJUSTED TO GRADE. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PROTECT EXISTING UTILITIES.

SANITARY SEWER PIPE SHALL BE PVC IN ACCORDANCE WITH ASTM D3034, SDR 35 WITH JOINTS IN ACCORDANCE WITH ASTM D3212 AND ANSI-AWWA A151 WITH JOINTS IN ACCORDANCE WITH AWWA C110 A21.10. IN ACCORDANCE WITH THE ILLINOIS ENVIRONMENTAL AGENCIES DESIGN STANDARDS FOR SEWAGE WORKS.

ALL SANITARY SEWERS SHALL BE AIR TESTED AND DEFLECTION TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS FOR 100% OF THE PIPE LENGTH. ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS AND MANPOWER NECESSARY FOR TESTING. THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS DEPARTMENT WHEN THE TESTING TAKES PLACE SO THAT A VILLAGE REPRESENTATIVE CAN BE PRESENT.

ALL MANHOLES SHALL BE TYPE A IN DESIGN AND FOUR FEET (4') IN DIAMETER, EQUIPPED WITH A-LOCK RUBBER GASKETS. RISERS AND SLABS SHALL BE IN ACCORDANCE WITH ASTM C478. LIFTING HOLES SHALL BE PROVIDED IN THE BASES AND RISERS. LIFTING HOOKS SHALL BE PROVIDED IN FLAT SLABS. MANHOLE STEPS SHALL BE CONSTRUCTED OF COPOLYMER POLYPROPYLENE PLASTIC.

ALL MANHOLE FRAMES AND LIDS SHALL BE NEENAH TYPE R-1916D. THE MANHOLE LID SHALL HAVE CAST IN THE CENTER THE WORD "WASTEWATER". MASTIC SEALANT SHALL BE APPLIED BETWEEN THE CONCRETE AND FLANGE OF THE FRAME BEFORE THE LIDS BOLTS ARE TIGHTENED.

MANHOLE LIDS MAY BE ADJUSTED WITH ADJUSTING RINGS FOR ADJUSTMENTS UP TO TWELVE (12) INCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ADJUSTMENTS.

SELECT GRANULAR BACKFILL CLASS 1 SHALL BE TYPE CA-6 AND SHALL BE USED AT ALL LOCATIONS WHERE SEWER MAINS AND SERVICES ARE INSTALLED FOR THE FULL DEPTH UNDER AREAS TO BE PAVED AND SHALL EXTEND THREE FEET (3') BEYOND ALL PAVED SURFACES AND INSTALLED IN ACCORDANCE WITH ASTM D2321.

ALL WASTEWATER SEWER CONNECTIONS TO BUILDINGS SHALL BE A MINIMUM OF SIX INCHES (6") IN DIAMETER.

ALL OUTFALL PIPES SHALL CONFORM TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION. ALL CULVERT PIPES/STORM SEWERS SHALL BE PROVIDED WITH END SECTIONS IF OUTFALLING ONTO A PAVED OR GRASS SWALE OR RIP-RAP OUTFALL.

ALL CULVERT PIPES/STORM SEWERS LOCATED UNDER PAVEMENT SURFACES SHALL BE REINFORCED CONCRETE PIPE WITH RUBBER GASKETED JOINTS AND SUFFICIENT WALL THICKNESS AND REINFORCEMENT TO CARRY THE INTENDED LOADING. MATERIALS SHALL MEET THE REQUIREMENTS OF ASTM C76 AND ASTM C-443 AND CARRY THE IDOT INSPECTION STAMP. MINIMUM STORM SEWER PIPE SIZE TO BE 15 INCHES PER THE VILLAGE OF GLEN CARBON.

ALL DOWNSPOUTS AND ANY SUMP PUMP DISCHARGES SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM.

ALL PRE-CAST INLETS, JUNCTION BOXES AND AREA INLETS SHALL PRESENT A SMOOTH SURFACE FOR WATER TO FLOW. CONTRACTOR TO ENSURE THAT THE DOWNSTREAM PIPE DOES NOT EXTEND INTO THE STRUCTURE CREATING A LIP ON WHICH DEBRIS CAN COLLECT. STRUCTURES SHALL BE FILLETED AND GROUTED AS NEEDED.

CONTRACTOR WILL BE REQUIRED TO JET AND CLEAN ALL STORM SEWERS THAT COLLECT DEBRIS, MUD, CONCRETE, BUILDING SUPPLIES, ETC. WHILE THE WORK IS UNDER THE RESPONSIBILITY OF THE CONTRACTOR.

BEDDING MATERIAL FOR STORM SEWER PIPING SHALL BE CONSIDERED INCIDENTAL TO THE PIPE.

ALL WATER MAINS SHALL CONFORM TO THE VILLAGE OF GLEN CARBON REQUIREMENTS ON WATER MAIN MATERIALS AND WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION. IF THERE IS A CONFLICT BETWEEN THE SPECIFICATIONS AND THESE REGULATIONS, THE MORE STRINGENT PROVISION SHALL APPLY. WATER MAIN PIPE SHALL BE C-900 DR18 PVC OR CLASS 350 DUCTILE IRON BELL AND SPIGOT JOINTS CONFORMING TO ASTM D3139 EXCEPT AT HYDRANTS AND FITTINGS. HYDRANTS SHALL BE MUELLER SUPER CENTURION. ALL HYDRANTS TO BE PAINTED RED. TRACER WIRE SHALL BE SOFT DRAWN SOLID NO. 12 COPPER AND SHALL BE CONNECTED TO ALL VALVES AND HYDRANTS.

ALL WATER MAINS SHALL BE BURIED A MINIMUM OF 42" BELOW FINAL GRADE.

SELECT GRANULAR BACKFILL (CA-6) CRUSHED STONE SHALL BE INSTALLED FOR THE FULL DEPTH OVER ALL WATER MAINS THAT CROSS AREAS TO BE PAVED AND THREE FEET BEYOND ALL PAVEMENT.

WATER CONNECTIONS BETWEEN BUILDINGS AND THE VILLAGE WATER METER SHALL BE TYPE K ROLLED COPPER TUBING.

CROSSINGS OF WATER MAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 41-02.01 OF THE STANDARD SPECIFICATIONS.

THRUST BLOCKING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 41-2.09 OF THE STANDARD SPECIFICATIONS.

CHLORINE SHALL BE USED FOR DISINFECTION IN ACCORDANCE WITH SECTION 41-2.14 OF THE STANDARD SPECIFICATIONS.

HYDROSTATIC AIR TESTING OF ALL NEW WATER MAINS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 41-2.13 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS AND MANPOWER NECESSARY FOR TESTING. THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS DEPARTMENT WHEN THE TESTING TAKES PLACE SO THAT A VILLAGE REPRESENTATIVE CAN BE PRESENT.

BACTERIOLOGICAL WATER SAMPLING OF ALL NEW WATER MAINS SHALL BE PERFORMED BY A REPRESENTATIVE OF THE VILLAGE PUBLIC WORKS DEPARTMENT PRIOR TO ACCEPTANCE OF THE WATER LINES BY THE VILLAGE.

THE SUBDIVIDER SHALL COMPLY WITH ALL ADDITIONAL STANDARD VILLAGE REQUIREMENTS FOR THE INSTALLATION OF WATER MAINS. (ORD. 2000-05, 1-11-2000)

ALL UTILITY CONDUITS SHALL BE FOUR (4) INCH U.L. LISTED SCHEDULE 40 PVC INSTALLED AT A MINIMUM DEPTH OF 30". ALL CONDUITS FOR GAS, ELECTRIC AND TELEPHONE SHALL BE INSTALLED PRIOR TO STREET INSTALLATION AND SHALL BE INSTALLED BY THE OWNER.

ALL UTILITY CONDUITS SHALL HAVE PULL WIRES INSTALLED. THE CONDUIT ENDS TEMPORARILY SEALED WITH TAPE AND 2"x4" INSTALLED AT EACH END. THE 2"x4" SHALL BE COLOR CODED TO MATCH THE STANDARD J.U.L.I.E. LOCATING COLORS BEING: RED FOR ELECTRIC, YELLOW FOR GAS AND ORANGE FOR TELEPHONE.

GAS, ELECTRIC POWER, TELEPHONE AND CABLE TELEVISION AND OTHER UTILITIES, EXCEPT SURFACE STORM WATER FACILITIES SHALL BE LOCATED UNDERGROUND THROUGHOUT THE SUBDIVISION.

GENERAL SPECIFICATIONS:

ALL WORK, INSTALLATION, PROCEDURES, MATERIALS, AND TESTING ASSOCIATED WITH THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARDS:

\* STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION

\* ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS, LATEST EDITION AS PUBLISHED BY THE ILLINOIS EPA.

\* RECOMMENDED STANDARDS FOR WATER WORKS, LATEST EDITION

\* STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

\* STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION, AS PUBLISHED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

\* 77 ILLINOIS ADMINISTRATIVE CODE, PART 890, ILLINOIS PLUMBING CODE

\* ILLINOIS URBAN MANUAL, LATEST EDITION AS PUBLISHED BY THE ILLINOIS EPA

\* UNITED STATES AMERICANS WITH DISABILITIES ACT, AND THE ILLINOIS ADA

\* ALL ORDINANCES, LAWS, REGULATIONS, AND STANDARDS OF ALL PERTINENT AUTHORITIES HAVING JURISDICTION OVER THE WORK ASSOCIATED WITH THIS PROJECT.

IF ANY INCONSISTENCIES, DISCREPANCIES, OR CONFLICTS ARE DISCOVERED BETWEEN THE VARIOUS STANDARDS, SPECIFICATIONS, OR LAWS BY GOVERNING AUTHORITIES, AND /OR THESE PLANS AND SPECIFICATIONS, THE MOST STRINGENT STANDARD, SPECIFICATION LAW AND/OR STANDARD SHALL BE BINDING AND APPLICABLE TO THIS PROJECT.

ONLY THOSE DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE USED FOR DETERMINATION OF LOCATION AND SIZES OF PROPOSED IMPROVEMENTS. DO NOT SCALE DRAWINGS. IF ANY DISCREPANCIES ARE DISCOVERED ON THE PLANS OR BETWEEN THE PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN CLARIFICATION OF THE INTENT FROM THE ENGINEER PRIOR TO CONSTRUCTION OR INSTALLATION OF PROPOSED IMPROVEMENTS.

ALL WORK, MATERIALS, AND INSTALLATION SHALL NOT BE DEEMED SATISFACTORY UNTIL SUCH TIME AS ALL APPROVALS ARE OBTAINED FROM THE MUNICIPALITY OR ENTITY HAVING JURISDICTION OVER THE PROJECT.

THE CONTRACTOR SHALL PROCEED AT HIS OWN RISK IN PERFORMING ANY WORK PRIOR TO VERIFYING OR RECEIVING ALL NECESSARY PERMITS FOR THE WORK TO BE DONE.

ALL WORK SHALL CONFORM TO THE LOCAL MUNICIPALITY'S ORDINANCES AND REGULATIONS.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE VILLAGE OF GLEN CARBON AT LEAST 48 HOURS PRIOR TO POURING CONCRETE, INSTALLING STORM SEWER, INSTALLING SANITARY SEWER, INSTALLING WATER OR OTHERWISE PROVIDING SUCH ADVANCE NOTICE AS MAY BE REQUIRED.

ALL WORK, MATERIALS AND INSTALLATION SHALL NOT BE DEEMED SATISFACTORY UNTIL SUCH TIME AS ALL APPROVALS ARE OBTAINED FROM THE VILLAGE OF GLEN CARBON.

THE CONTRACTOR SHALL PROCEED AT HIS OWN RISK IN PERFORMING ANY WORK PRIOR TO VERIFYING OR RECEIVING ALL NECESSARY PERMITS FOR THE WORK TO BE DONE.

CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE ANY SIGNS THAT NEED TO BE MOVED TO COMPLETE THE WORK. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PROTECT EXISTING UTILITIES.

CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIALS AND LABOR ASSOCIATED WITH SITE IMPROVEMENTS FOR A PERIOD OF TWO (2) YEARS.



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IL. PROF. STR. ENGR. CORP.	81-005202
IL. PROF. LAND SURV. CORP.	048-000029
KS. PROF. ENGR. FACILITY	E-3256
MO. PROF. ENGR. CORP.	001528
MO. LAND SURVEYING CORP.	000346
TN. PROF. ENGR. FIRM	8974

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DATE SIGNED:  
LICENSE EXPIRATION:

ISSUED FOR REVIEW  
AUGUST 14, 2023

REV.	DATE	DESCRIPTION
△	8-24-23	VILLAGE OF GLEN CARBEN REVIEW
△		
△		
△		
△		

DRAWN BY: DAB  
DESIGNED BY: DLL  
CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

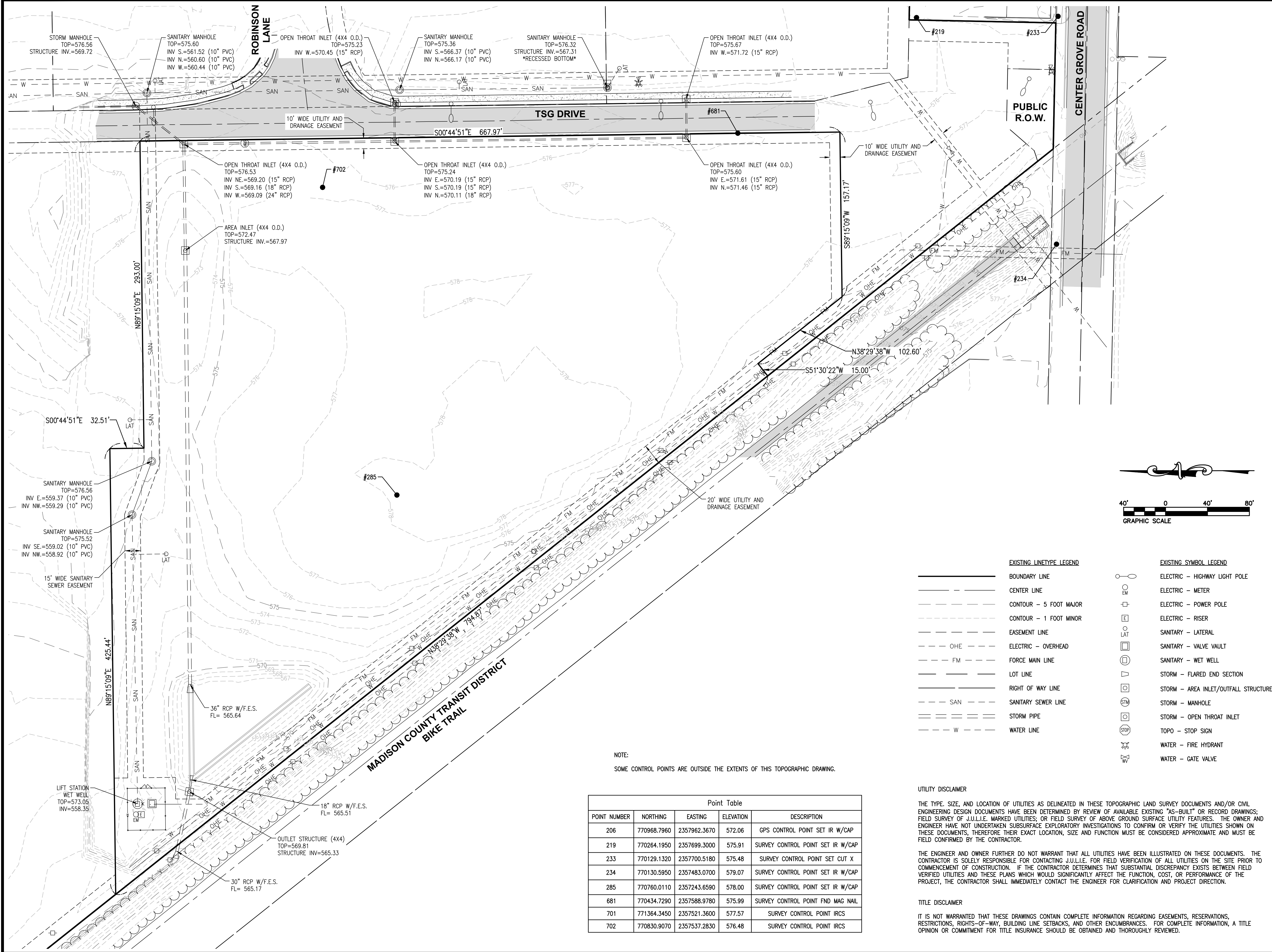
GENERAL NOTES

C1.1

PRELIMINARY



P:\2015\150464F\1 CAD - DWG\1. Comm\150464F-01C Outparcel 13 Improvement Plans.dwg Plotted By: Dechenier



NOTE:  
SOME CONTROL POINTS ARE OUTSIDE THE EXTENTS OF THIS TOPOGRAPHIC DRAWING.

Point Table				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
206	770968.7960	2357962.3670	572.06	GPS SURVEY CONTROL POINT SET IR W/CAP
219	770264.1950	2357699.3000	575.91	SURVEY CONTROL POINT SET IR W/CAP
233	770129.1320	2357700.5180	575.48	SURVEY CONTROL POINT SET CUT X
234	770130.5950	2357483.0700	579.07	SURVEY CONTROL POINT SET IR W/CAP
285	770760.0110	2357243.6590	578.00	SURVEY CONTROL POINT SET IR W/CAP
681	770434.7290	2357588.9780	575.99	SURVEY CONTROL POINT FND MAG NAIL
701	771364.3450	2357521.3600	577.57	SURVEY CONTROL POINT IRCS
702	770830.9070	2357537.2830	576.48	SURVEY CONTROL POINT IRCS

UTILITY DISCLAIMER

THE TYPE, SIZE, AND LOCATION OF UTILITIES AS DELINEATED IN THESE TOPOGRAPHIC LAND SURVEY DOCUMENTS AND/OR CIVIL ENGINEERING DESIGN DOCUMENTS HAVE BEEN DETERMINED BY REVIEW OF AVAILABLE EXISTING "AS-BUILT" OR RECORD DRAWINGS; FIELD SURVEY OF J.U.L.I.E. MARKED UTILITIES; OR FIELD SURVEY OF ABOVE GROUND SURFACE UTILITY FEATURES. THE OWNER AND ENGINEER HAVE NOT UNDERTAKEN SUBSURFACE EXPLORATORY INVESTIGATIONS TO CONFIRM OR VERIFY THE UTILITIES SHOWN ON THESE DOCUMENTS, THEREFORE THEIR EXACT LOCATION, SIZE AND FUNCTION MUST BE CONSIDERED APPROXIMATE AND MUST BE FIELD CONFIRMED BY THE CONTRACTOR.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THESE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DIRECTION.

TITLE DISCLAIMER

IT IS NOT WARRANTED THAT THESE DRAWINGS CONTAIN COMPLETE INFORMATION REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, RIGHTS-OF-WAY, BUILDING LINE SETBACKS, AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED AND THOROUGHLY REVIEWED.



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DRAWN BY: DAB  
DESIGNED BY: DLL  
CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

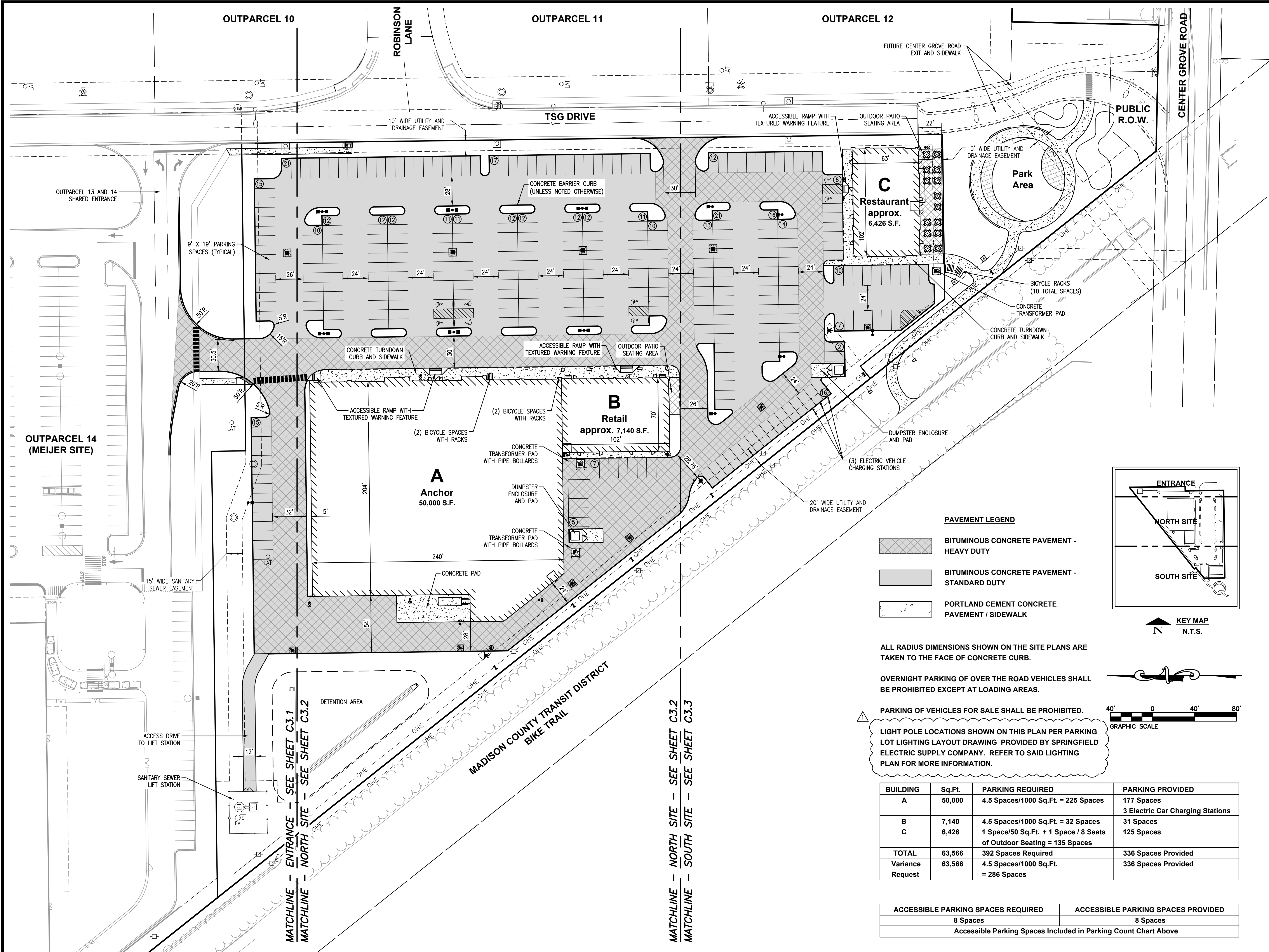
EXISTING TOPOGRAPHY

C2.0

PRELIMINARY



C:\Users\B2521C1E-1\My Documents\Temp\MapData\1460A\1504646-01C Outparcel 13 Improvement Plans.dwg Plotted By: dbechner



PAVEMENT LEGEND

- [Pattern] BITUMINOUS CONCRETE PAVEMENT - HEAVY DUTY
- [Pattern] BITUMINOUS CONCRETE PAVEMENT - STANDARD DUTY
- [Pattern] PORTLAND CEMENT CONCRETE PAVEMENT / SIDEWALK

ALL RADIUS DIMENSIONS SHOWN ON THE SITE PLANS ARE TAKEN TO THE FACE OF CONCRETE CURB.

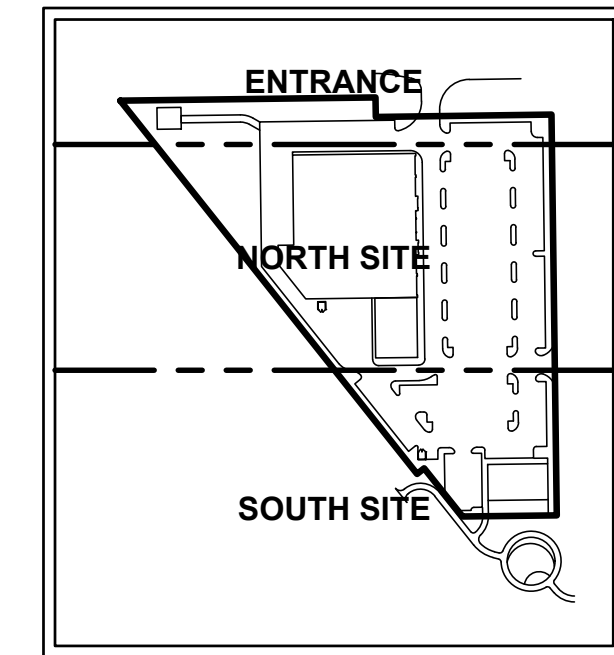
OVERNIGHT PARKING OF OVER THE ROAD VEHICLES SHALL BE PROHIBITED EXCEPT AT LOADING AREAS.

PARKING OF VEHICLES FOR SALE SHALL BE PROHIBITED.

LIGHT POLE LOCATIONS SHOWN ON THIS PLAN PER PARKING LOT LIGHTING LAYOUT DRAWING PROVIDED BY SPRINGFIELD ELECTRIC SUPPLY COMPANY. REFER TO SAID LIGHTING PLAN FOR MORE INFORMATION.

BUILDING	Sq.Ft.	PARKING REQUIRED	PARKING PROVIDED
A	50,000	4.5 Spaces/1000 Sq.Ft. = 225 Spaces	177 Spaces 3 Electric Car Charging Stations
B	7,140	4.5 Spaces/1000 Sq.Ft. = 32 Spaces	31 Spaces
C	6,426	1 Space/50 Sq.Ft. + 1 Space / 8 Seats of Outdoor Seating = 135 Spaces	125 Spaces
TOTAL	63,566	392 Spaces Required	336 Spaces Provided
Variance Request	63,566	4.5 Spaces/1000 Sq.Ft. = 286 Spaces	336 Spaces Provided

ACCESSIBLE PARKING SPACES REQUIRED	ACCESSIBLE PARKING SPACES PROVIDED
8 Spaces	8 Spaces
Accessible Parking Spaces Included in Parking Count Chart Above	



KEY MAP  
N  
N.T.S.



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TN. PROF. ENGR. FIRM	8974

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DRAWN BY: DAB  
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CHECKED BY: DLL  
APPROVED BY: M/JM  
PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

OVERALL SITE PLAN

PRELIMINARY





ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA
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MO. LAND SURVEYING CORP.	0003
TN. PROF. ENGR. FIRM	89

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DRAWN BY:	DA
DESIGNED BY:	DI
CHECKED BY:	DI
APPROVED BY:	MJ
PROJECT NO:	D10150464

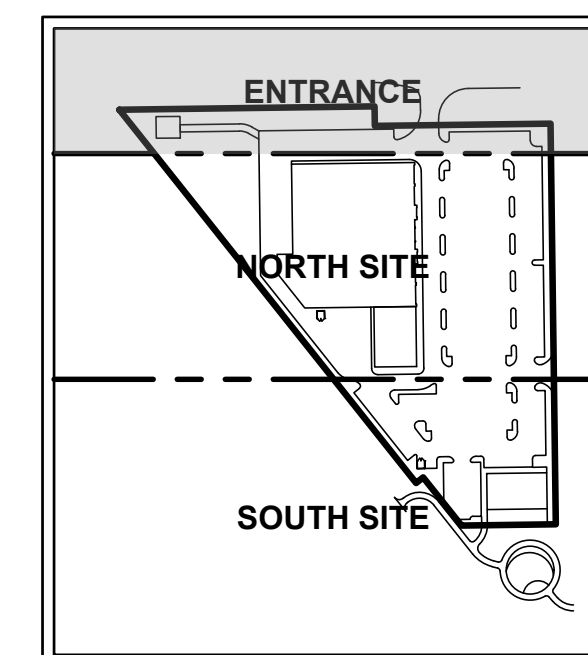
PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

SITE PLAN  
ENTRANCE

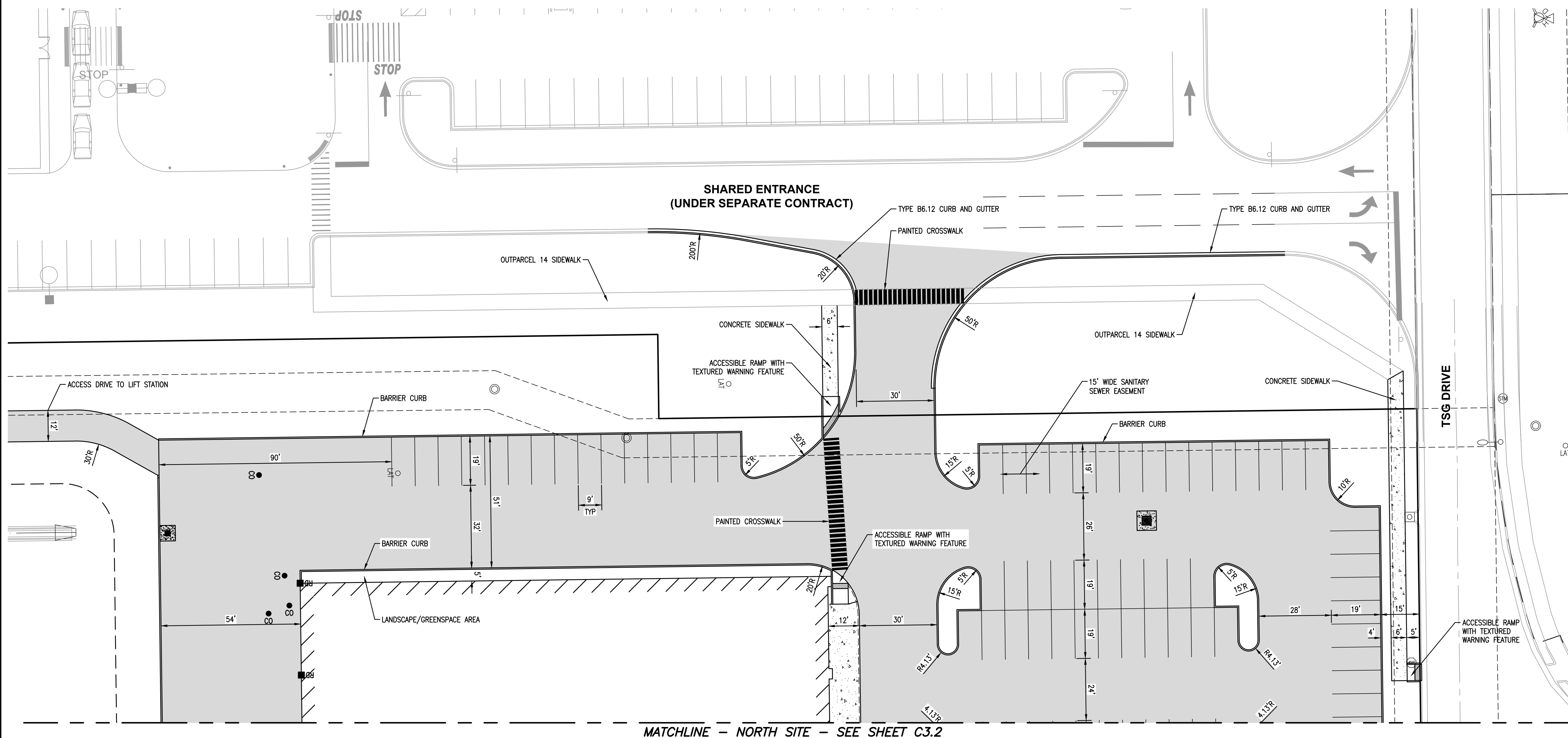
### C3.1



 **KEY MAP**  
N.T.S.



**OUTPARCEL 14**

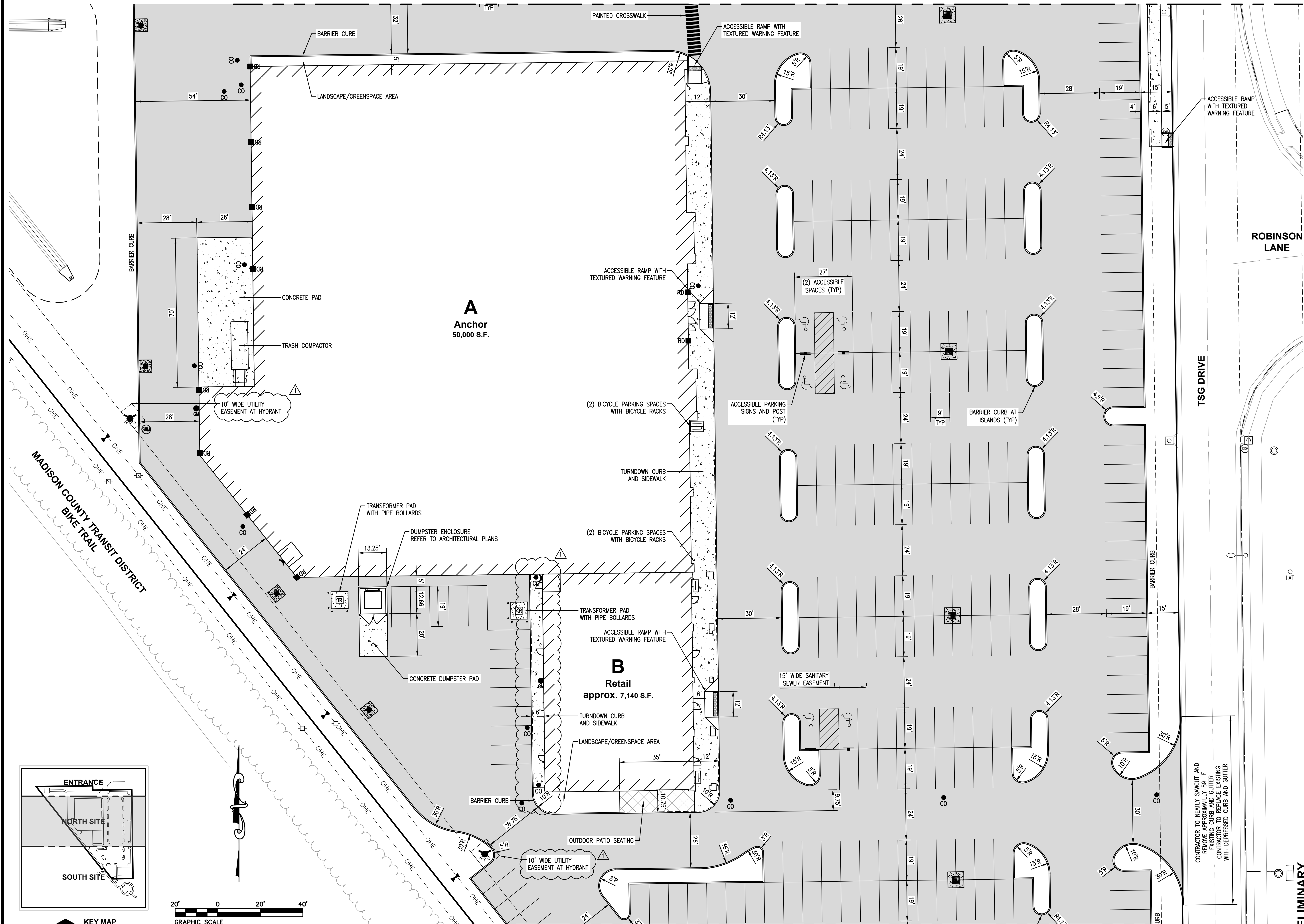


**MATCHLINE - NORTH SITE - SEE SHEET C3.2**

**PRELIMINARY**



MATCHLINE - ENTRANCE - SEE SHEET C3.1





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MADISON COUNTY, ILLINOIS

TITLE:

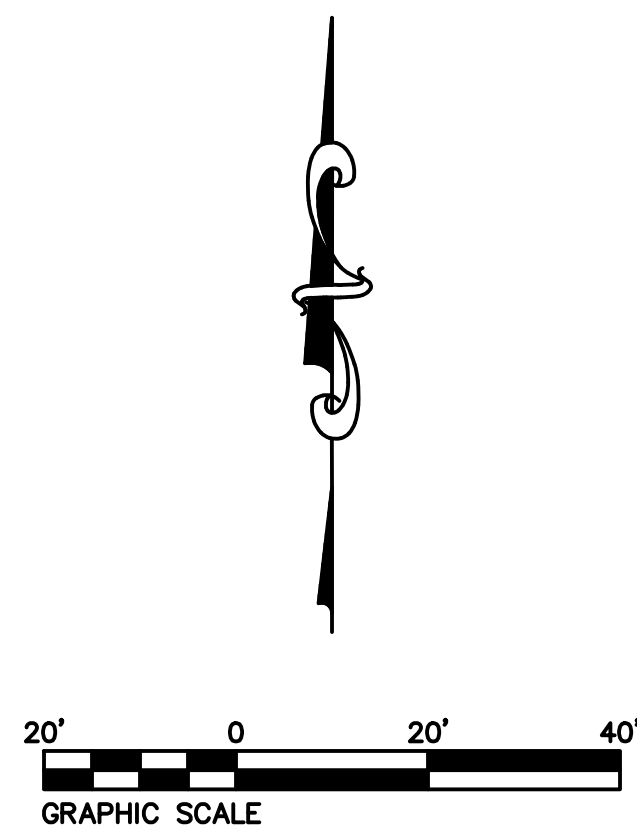
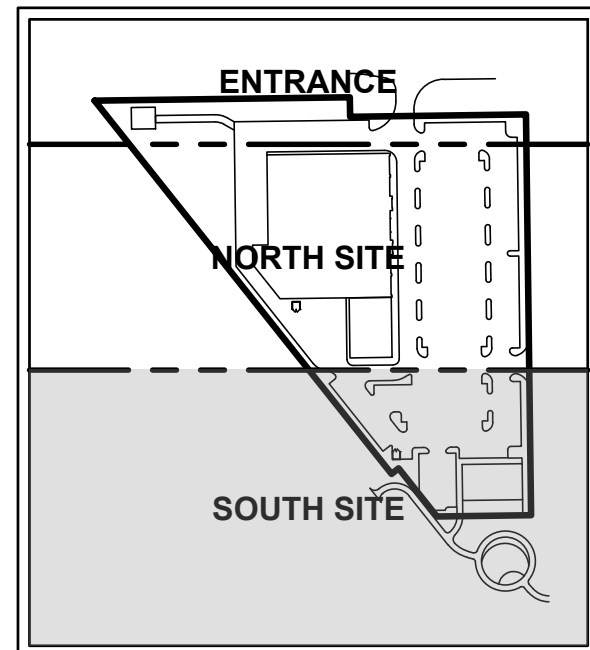
SITE PLAN  
NORTH

**C3.2**

P:\2013\150464F\1 CAD - TWM\1.1 Comm\150464F-01C Outparcel 13 Improvement Plan.dwg Plotted By: Becker



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MATCHLINE - NORTH SITE - SEE SHEET C3.2

MADISON COUNTY TRANSIT DISTRICT  
BIKE TRAIL

TSG DRIVE

FUTURE CENTER GROVE ROAD  
EXIT AND SIDEWALK

PRELIMINARY

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OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

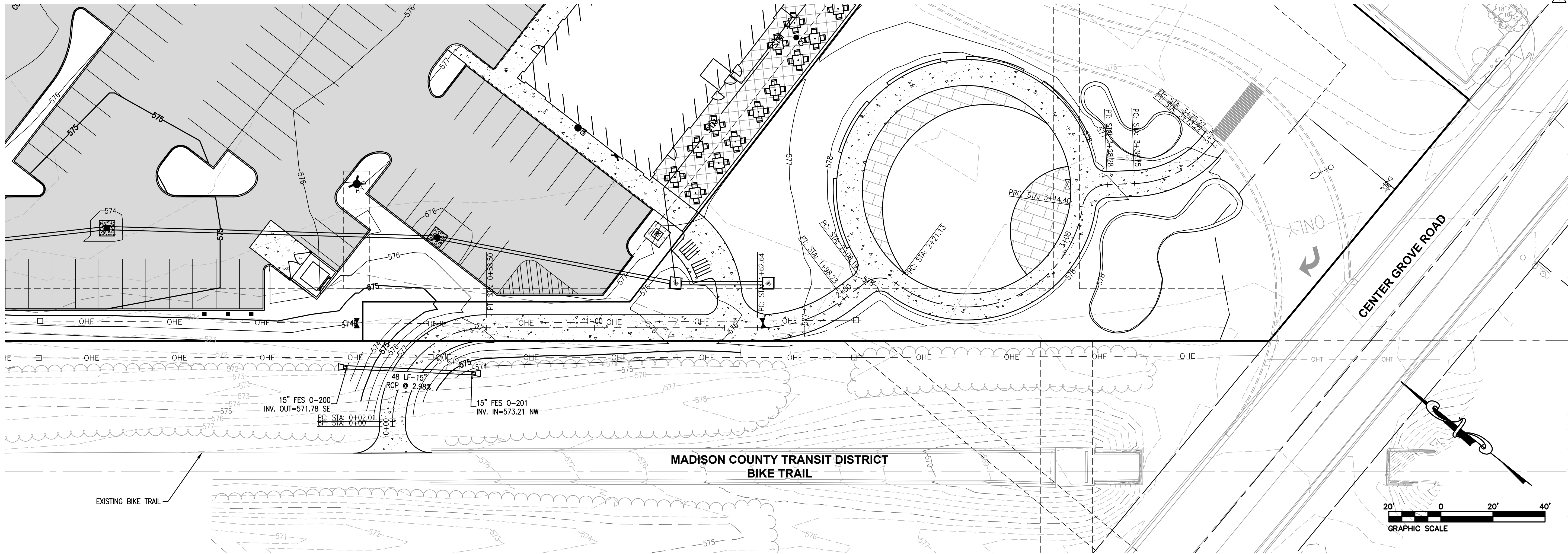
TITLE:

SITE PLAN  
SOUTH

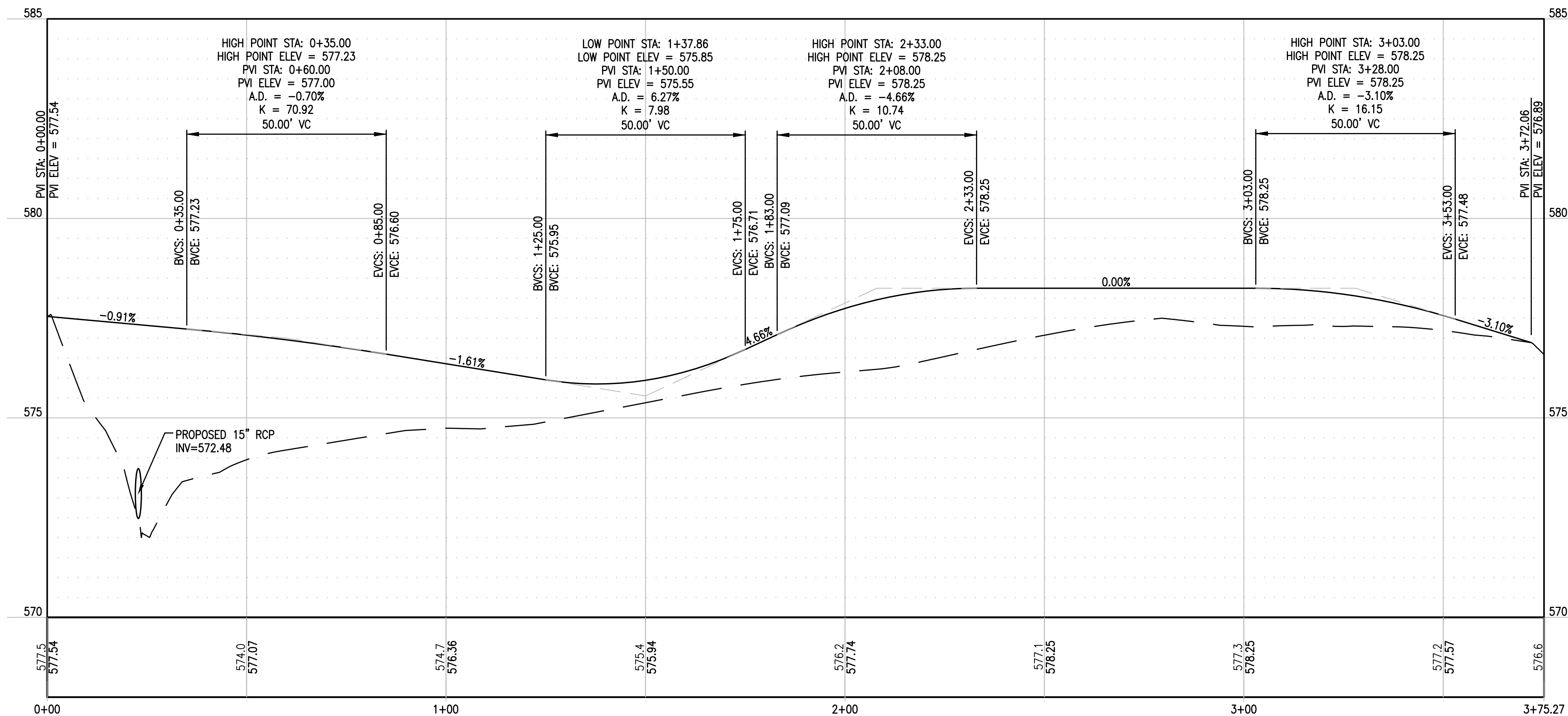
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ALIGNMENT - PATH (0+00.00 - 3+75.27)



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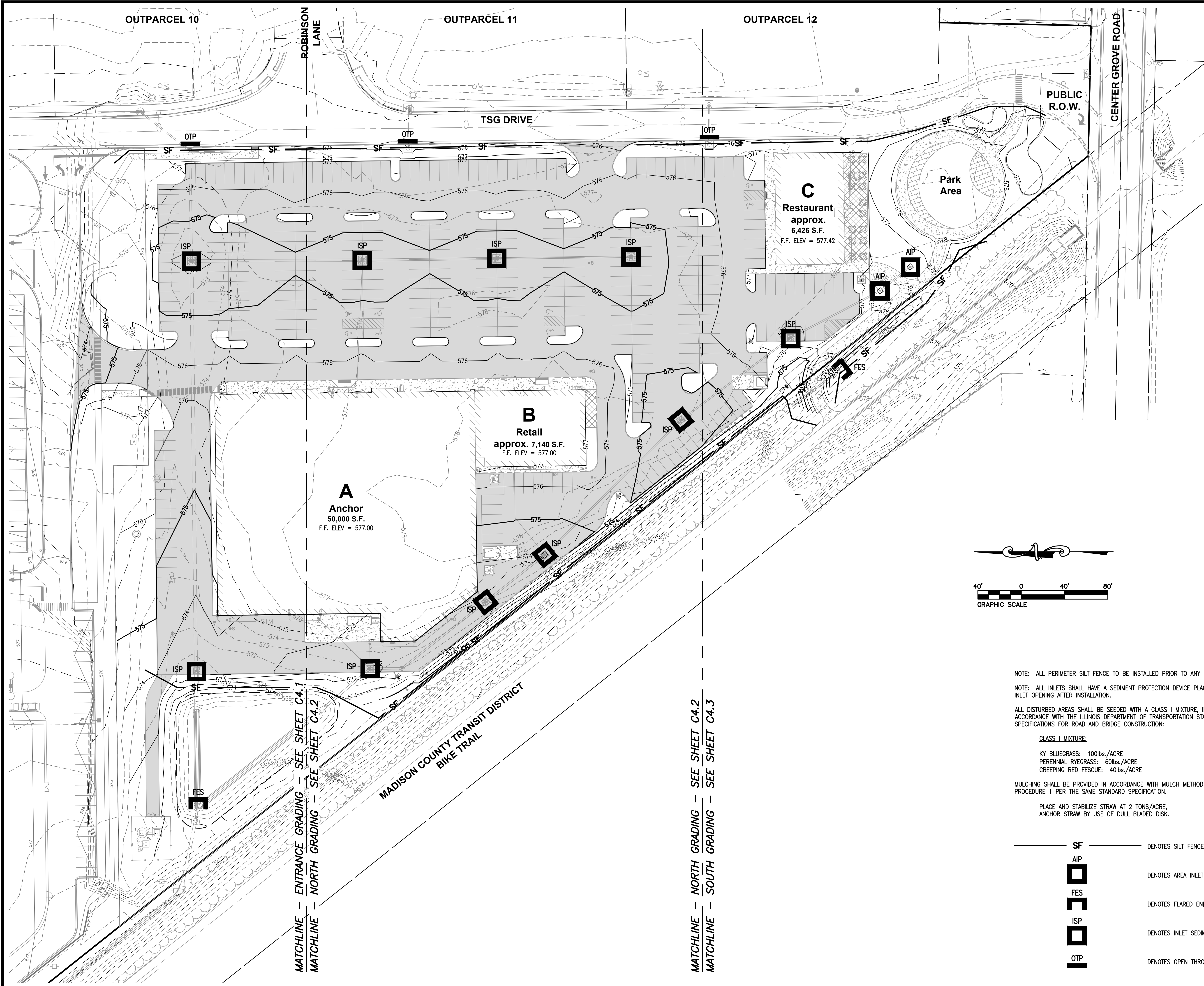
BIKE PATH  
PLAN AND PROFILE

C3.4

PRELIMINARY



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NOTE: ALL PERIMETER SILT FENCE TO BE INSTALLED PRIOR TO ANY GRADING.

NOTE: ALL INLETS SHALL HAVE A SEDIMENT PROTECTION DEVICE PLACED AT THE INLET OPENING AFTER INSTALLATION.

ALL DISTURBED AREAS SHALL BE SEEDED WITH A CLASS I MIXTURE, IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION:

CLASS I MIXTURE:

KY BLUEGRASS: 100lbs./ACRE  
PERENNIAL RYEGRASS: 60lbs./ACRE  
CREEPING RED FESCUE: 40lbs./ACRE

MULCHING SHALL BE PROVIDED IN ACCORDANCE WITH MULCH METHOD 2, PROCEDURE 1 PER THE SAME STANDARD SPECIFICATION.

PLACE AND STABILIZE STRAW AT 2 TONS/ACRE, ANCHOR STRAW BY USE OF DULL BLADED DISK.

- SF — DENOTES SILT FENCE
- AIP DENOTES AREA INLET PROTECTION
- FES DENOTES FLARED END SECTION PROTECTION
- ISP DENOTES INLET SEDIMENT PROTECTION
- OTP DENOTES OPEN THROAT INLET PROTECTION

PRELIMINARY

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ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

OVERALL GRADING AND  
SEDIMENT CONTROL PLAN

C4.0





ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA
MISSOURI	ST. CHARLES ST. LOUIS COLUMBIA
TENNESSEE	NASHVILLE CHATTANOOG.

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SWANSEA, ILLINOIS  
62226-2025  
TEL (618) 624-4488  
WWW.TWM-INC.COM

PROF. LICENSE	NUMBER
IL. PROF. DESIGN FIRM	184-0012
IL. PROF. ENGR. CORP.	62-0353
IL. PROF. STR. ENGR. CORP.	81-00522
IL. PROF. LAND SURV. CORP.	048-0000
KS. PROF. ENGR. FACILITY	E-32
MO. PROF. ENGR. CORP.	0015
MO. LAND SURVEYING CORP.	0003
TN. PROF. ENGR. FIRM	89

SEAL

SIGNATURE:  
DATE SIGNED:  
LICENSE EXPIRATION:

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AUGUST 14, 2023

REV.	DATE	DESCRIPTION
△		
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DRAWN BY:	DA
DESIGNED BY:	DI
CHECKED BY:	DI
APPROVED BY:	MJ
PROJECT NO:	D10150464

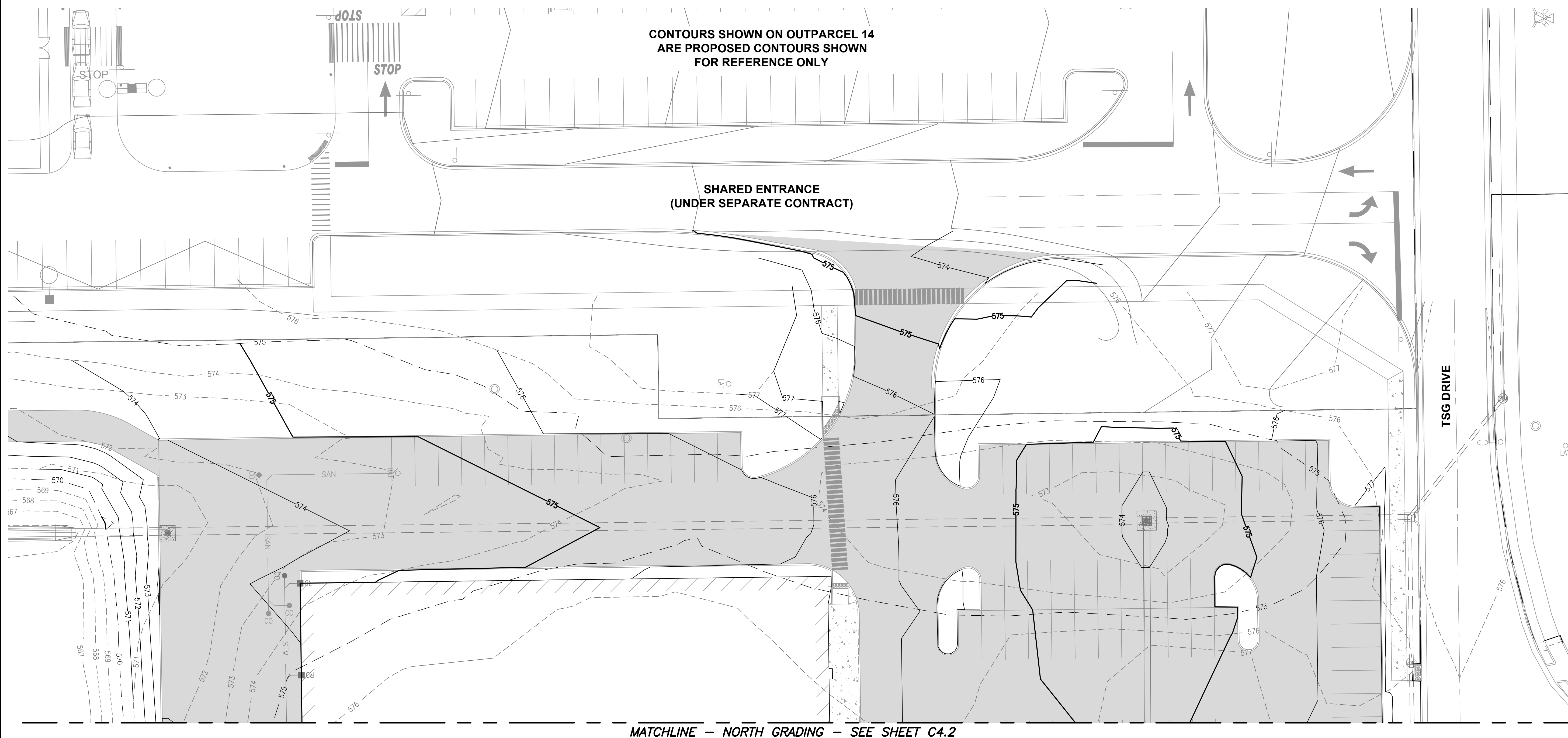
PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

GRADING PLAN  
ENTRANCE

## C4.1



c:\2015\150464F\4 CADD - DWG\4.1 Comm\150464F-OTC Outparcel 13 Improvement Plans.dwg Plotted By: dbecherer

# PRELIMINARY





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PROF. LICENSE	NUMBER
IL. PROF. DESIGN FIRM	184-001220
IL. PROF. ENGR. CORP.	62-035370
IL. PROF. STR. ENGR. CORP.	81-005202
IL. PROF. LAND SURV. CORP.	048-000029
KS. PROF. ENGR. FACILITY	E-3256
MO. PROF. ENGR. CORP.	001528
MO. LAND SURVEYING CORP.	000346
TN. PROF. ENGR. FIRM	8974

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AUGUST 14, 2023

REV.	DATE	DESCRIPTION
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△		

DRAWN BY: DAB  
DESIGNED BY: DLL  
CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

GRADING PLAN  
NORTH

**C4.2**

PRELIMINARY



P:\2015\150464F\1 CAD - TWM\1.1 Comm\150464F-01C Outparcel 13 Improvement Plans.dwg Plotted By: bechner

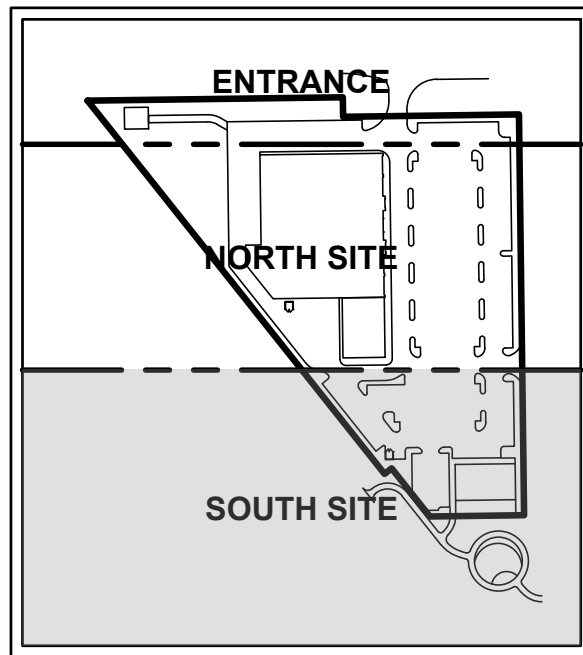
MATCHLINE - NORTH GRADING - SEE SHEET C4.2

MADISON COUNTY TRANSIT DISTRICT  
BIKE TRAIL

TSG DRIVE

**C**  
**Restaurant**  
**approx.**  
**6,426 S.F.**  
F.F. ELEV = 577.42

**Park Area**



**KEY MAP**  
N.T.S.

20' 0 20' 40'  
GRAPHIC SCALE



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DATE SIGNED:  
LICENSE EXPIRATION:

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AUGUST 14, 2023

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△		
△		

DRAWN BY:	DAB
DESIGNED BY:	DLI
CHECKED BY:	DLI
APPROVED BY:	MJM
PROJECT NO:	D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

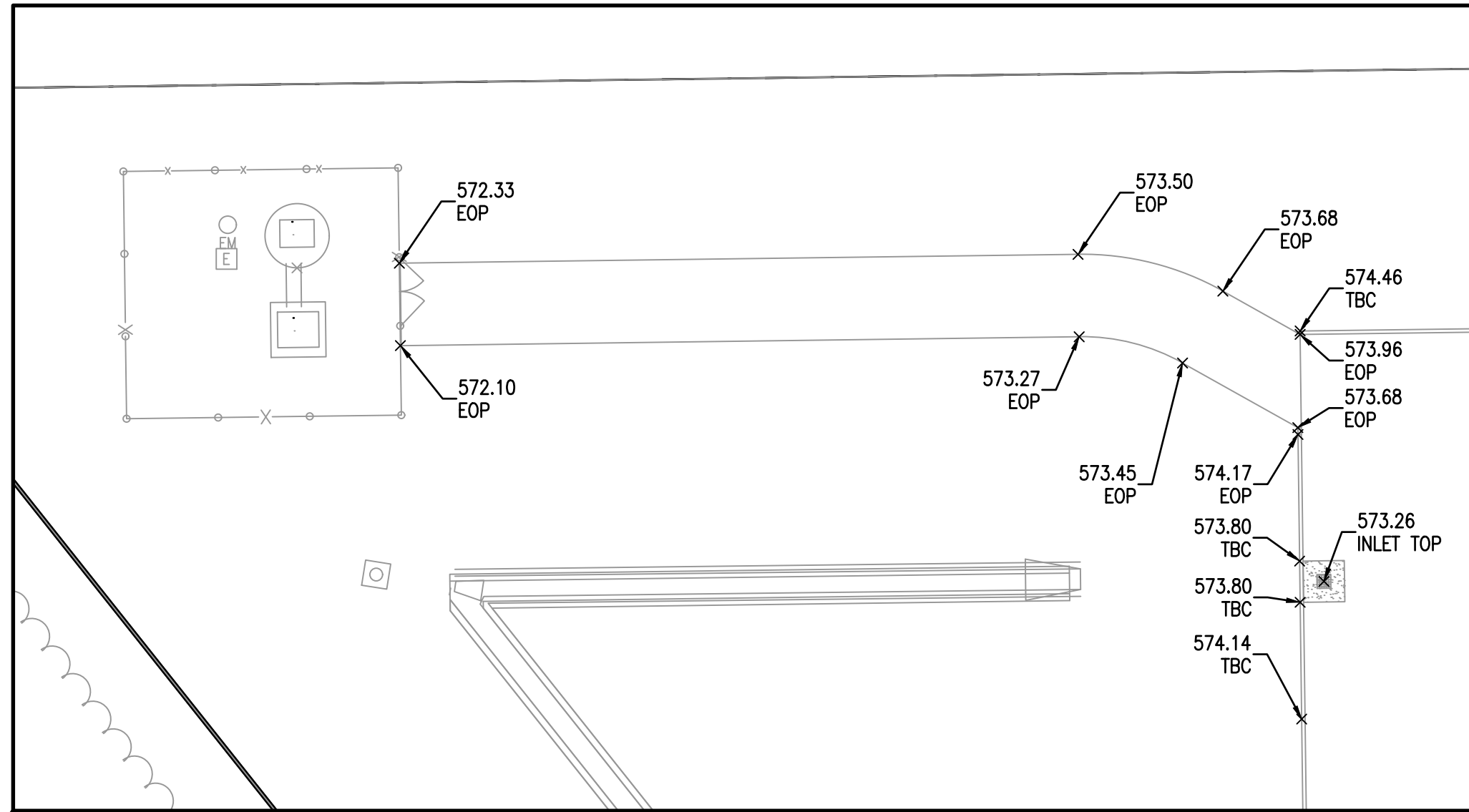
GRADING PLAN  
SOUTH

**C4.3**

PRELIMINARY



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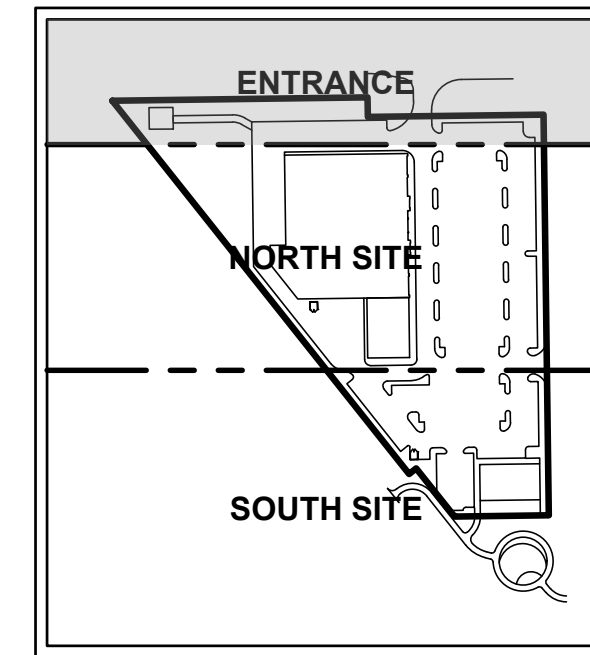


LIFT STATION ACCESS ROAD

OUTPARCEL 14

SPOT ELEVATION ABBREVIATIONS:

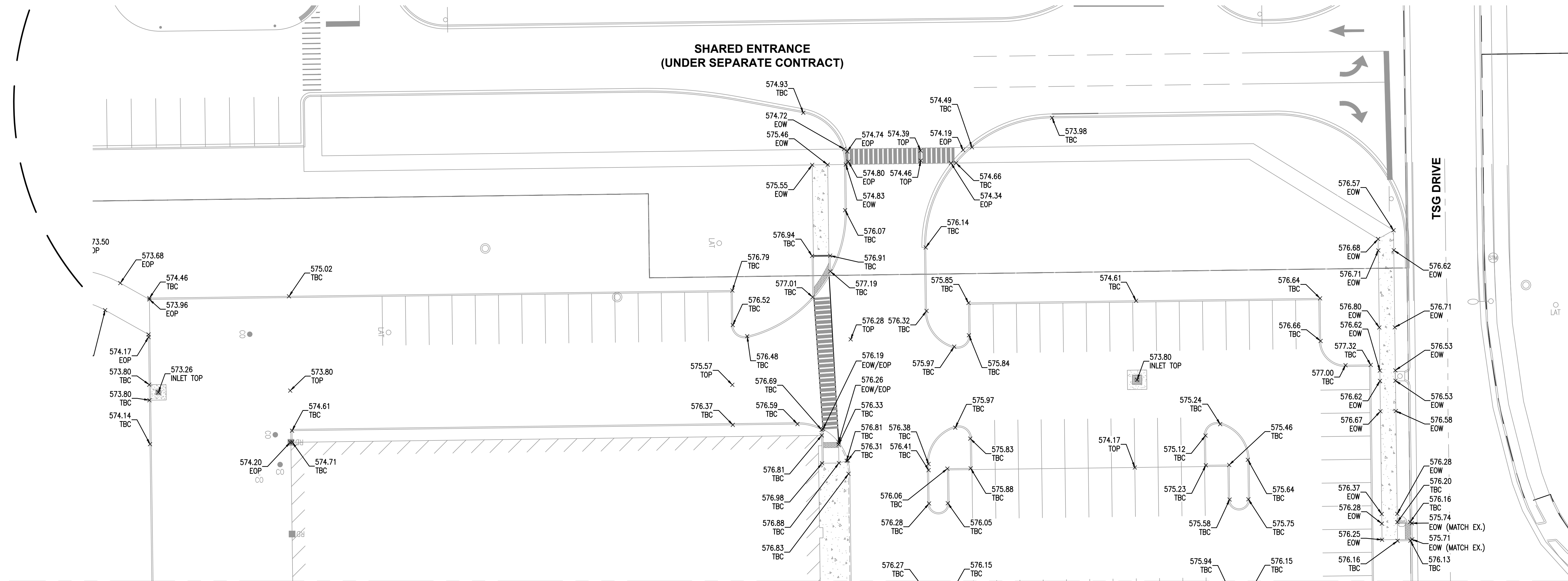
EOP EDGE OF PAVEMENT  
EOW EDGE OF WALK  
TBC TOP BACK OF CURB  
TOP TOP OF PAVEMENT (FIN GRADE)



KEY MAP  
N.T.S.



SHARED ENTRANCE  
(UNDER SEPARATE CONTRACT)



MATCHLINE - NORTH SPOT ELEVATIONS - SEE SHEET C4.5

**TWM**  
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KS. PROF. ENGR. FACILITY	E-3256
MO. PROF. ENGR. CORP.	001528
MO. LAND SURVEYING CORP.	000346
TN. PROF. ENGR. FIRM	8974

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SIGNATURE:  
DATE SIGNED:  
LICENSE EXPIRATION:

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AUGUST 14, 2023

REV.	DATE	DESCRIPTION
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DESIGNED BY: DLL  
CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

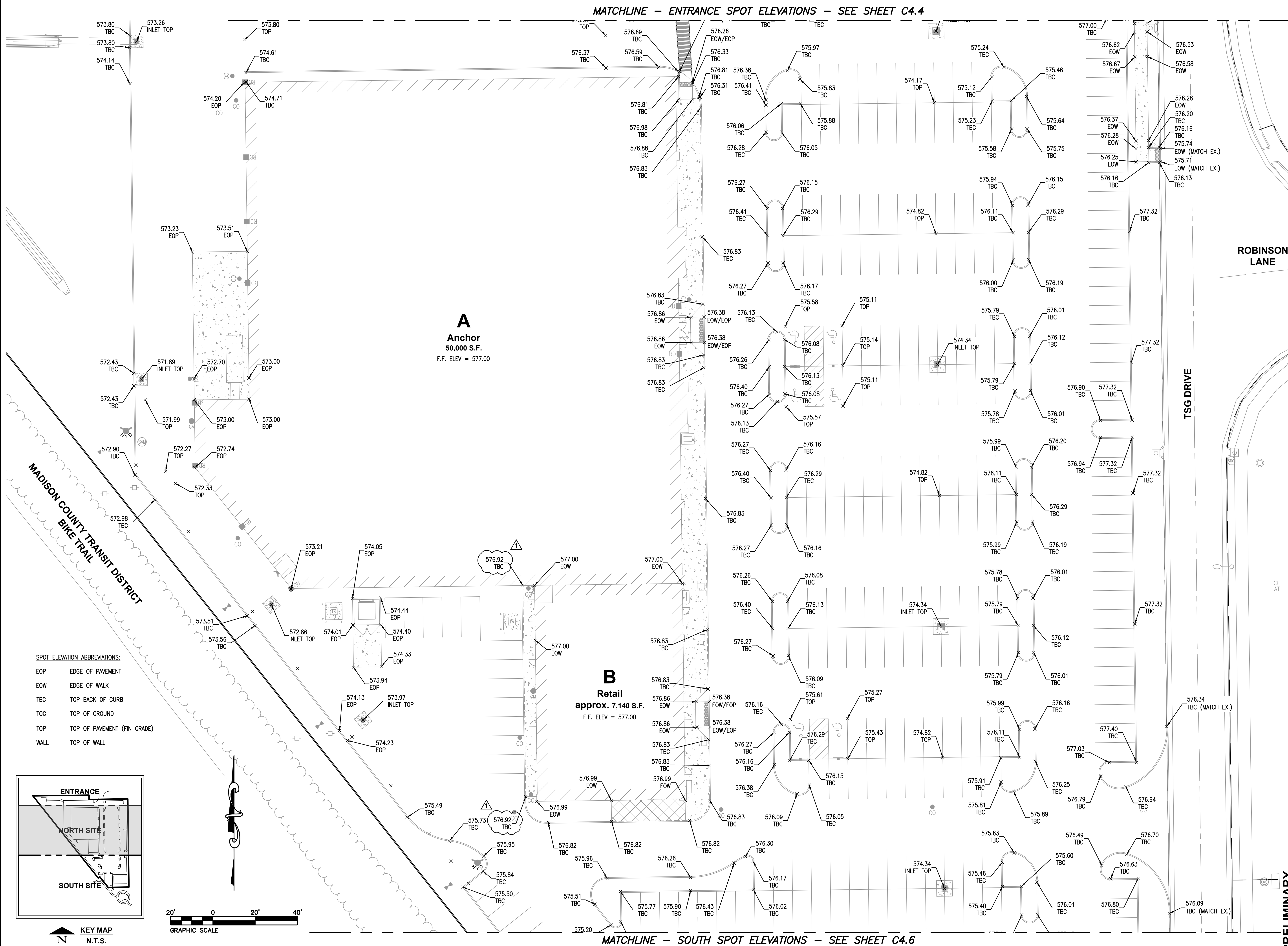
PROJECT:  
  
ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:  
  
SPOT ELEVATION PLAN  
ENTRANCE

PRELIMINARY



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LICENSE EXPIRATION:

ISSUED FOR REVIEW  
AUGUST 14, 2023

REV.	DATE	DESCRIPTION
△	8-24-23	VILLAGE OF GLEN CARBON REVIEW
△		
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△		

DRAWN BY: DAB  
DESIGNED BY: DLL  
CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

PROJECT:  
  
ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:  
  
SPOT ELEVATION PLAN  
NORTH

**C4.5**





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TN. PROF. ENGR. FIRM	8974

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DATE SIGNED:  
LICENSE EXPIRATION:

ISSUED FOR REVIEW  
AUGUST 14, 2023

REV.	DATE	DESCRIPTION
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DESIGNED BY:	DLL
CHECKED BY:	DLL
APPROVED BY:	MJM
PROJECT NO:	D10150464F

PROJECT:

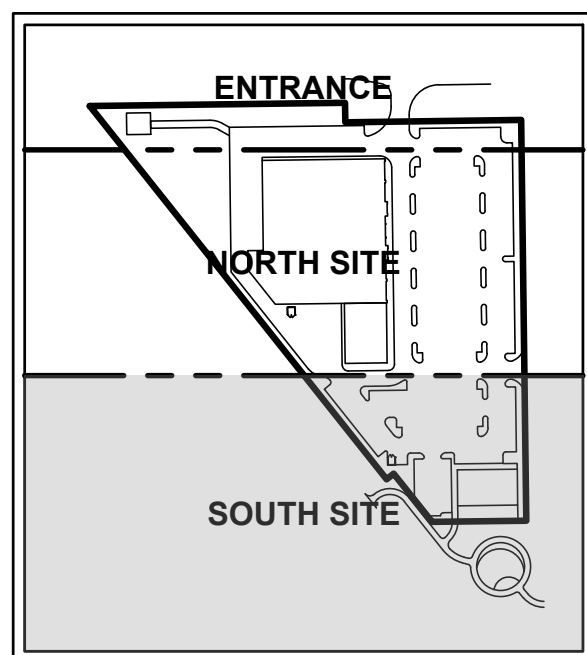
ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

SPOT ELEVATION PLAN  
SOUTH

C4.6

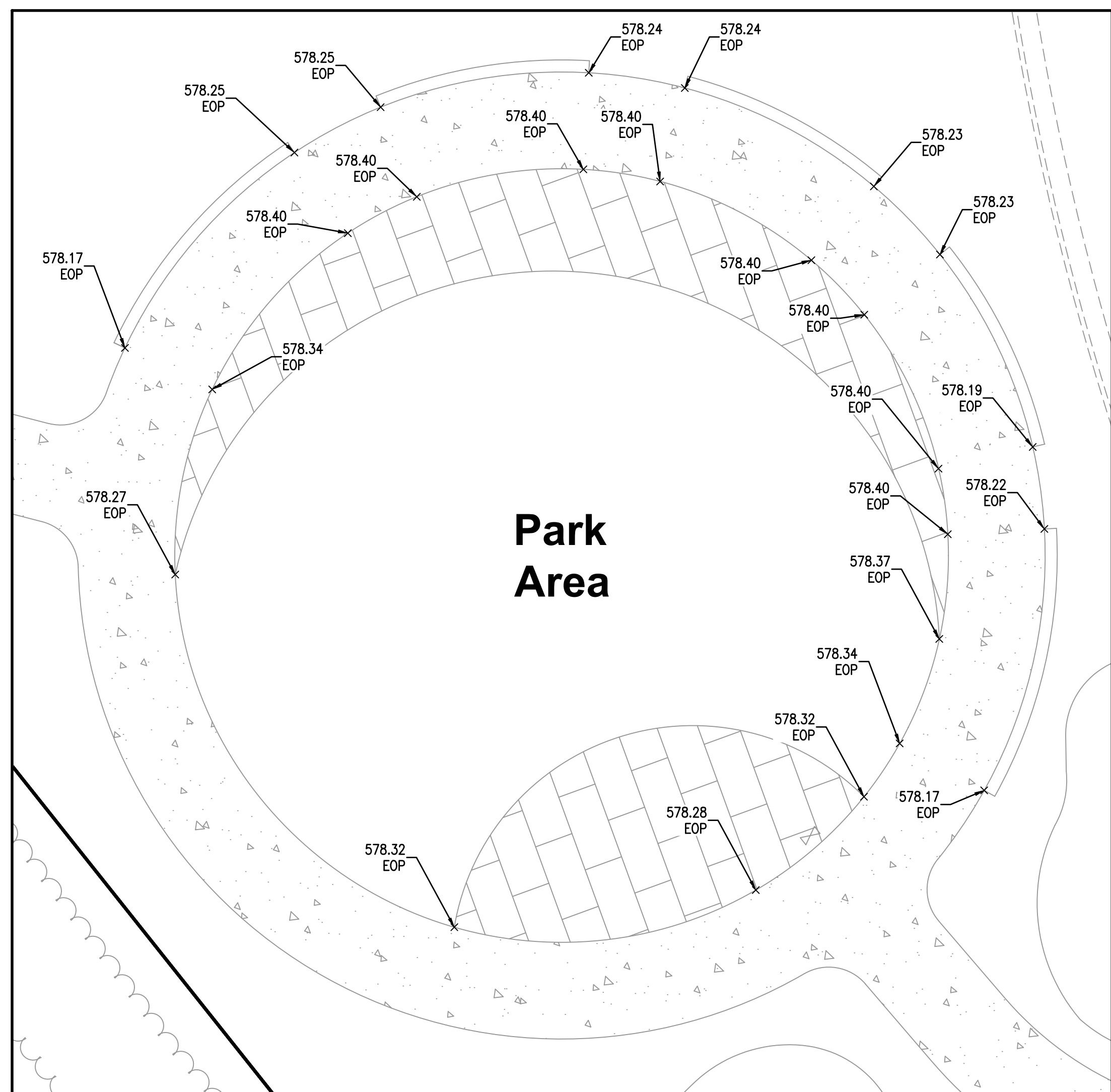
MATCHLINE - NORTH SPOT ELEVATION - SEE SHEET C4.5



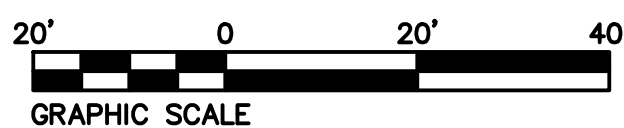
KEY MAP  
N.T.S.

### SPOT ELEVATION ABBREVIATIONS:

EOP EDGE OF PAVEMENT  
EOW EDGE OF WALK  
TBC TOP BACK OF CURB  
TOG TOP OF GROUND  
TOP TOP OF PAVEMENT  
WALL TOP OF WALL



DETAIL - AMPHITHEATER AT PARK AREA  
SCALE 1" = 10'



PRELIMINARY





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ST. LOUIS  
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SWANSEA, ILLINOIS  
62226-2025  
TEL (618) 624-4488  
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IL. PROF. LAND SURV. CORP.	048-0000
KS. PROF. ENGR. FACILITY	E-32
MO. PROF. ENGR. CORP.	0015
MO. LAND SURVEYING CORP.	0003
TN. PROF. ENGR. FIRM	89

SIGNATURE:  
DATE SIGNED:  
LICENSE EXPIRATION:

SUBMITTAL DATE  
AUGUST 14, 2023

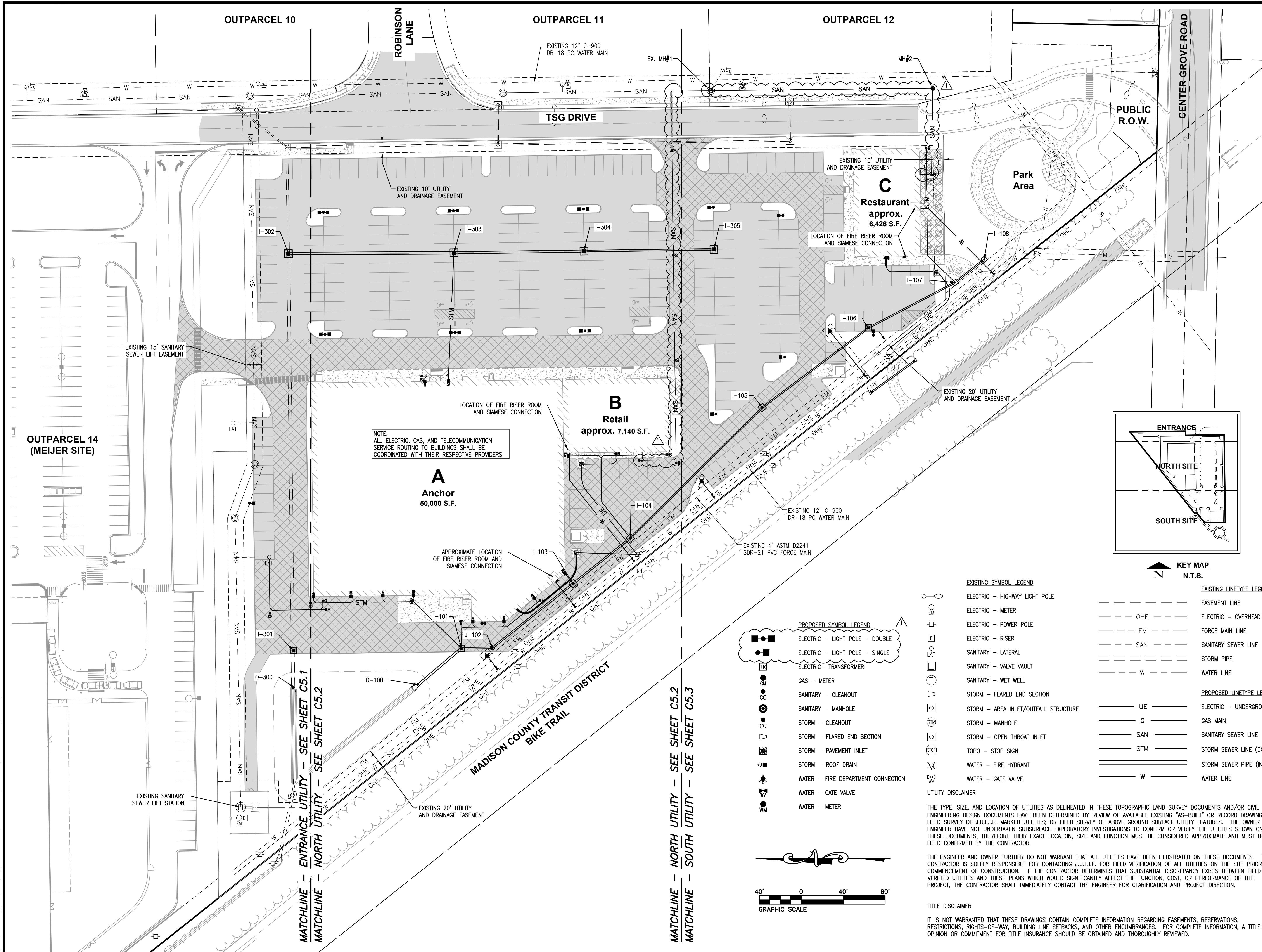
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①	8-24-23	VILLAGE OF GLEN CARBON REVIEW
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DRAWN BY:	DA
DESIGNED BY:	DI
CHECKED BY:	DI
APPROVED BY:	MJ
PROJECT NO:	D10150464

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

## OVERALL UTILITY PLAN

## C5.0

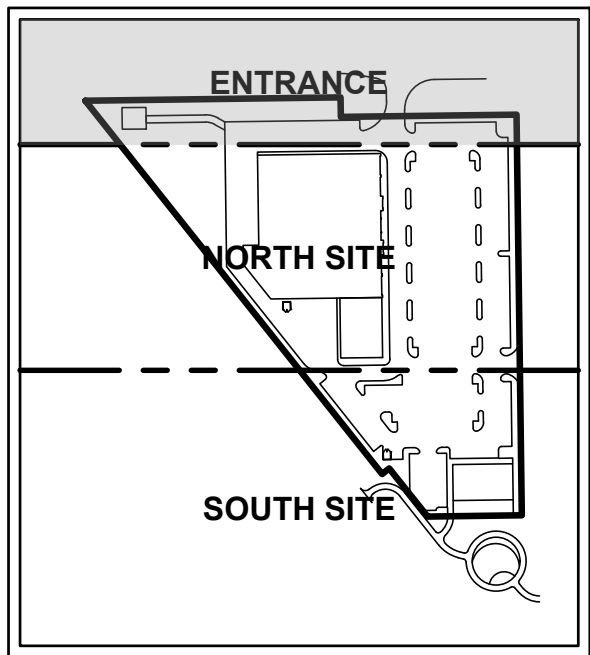
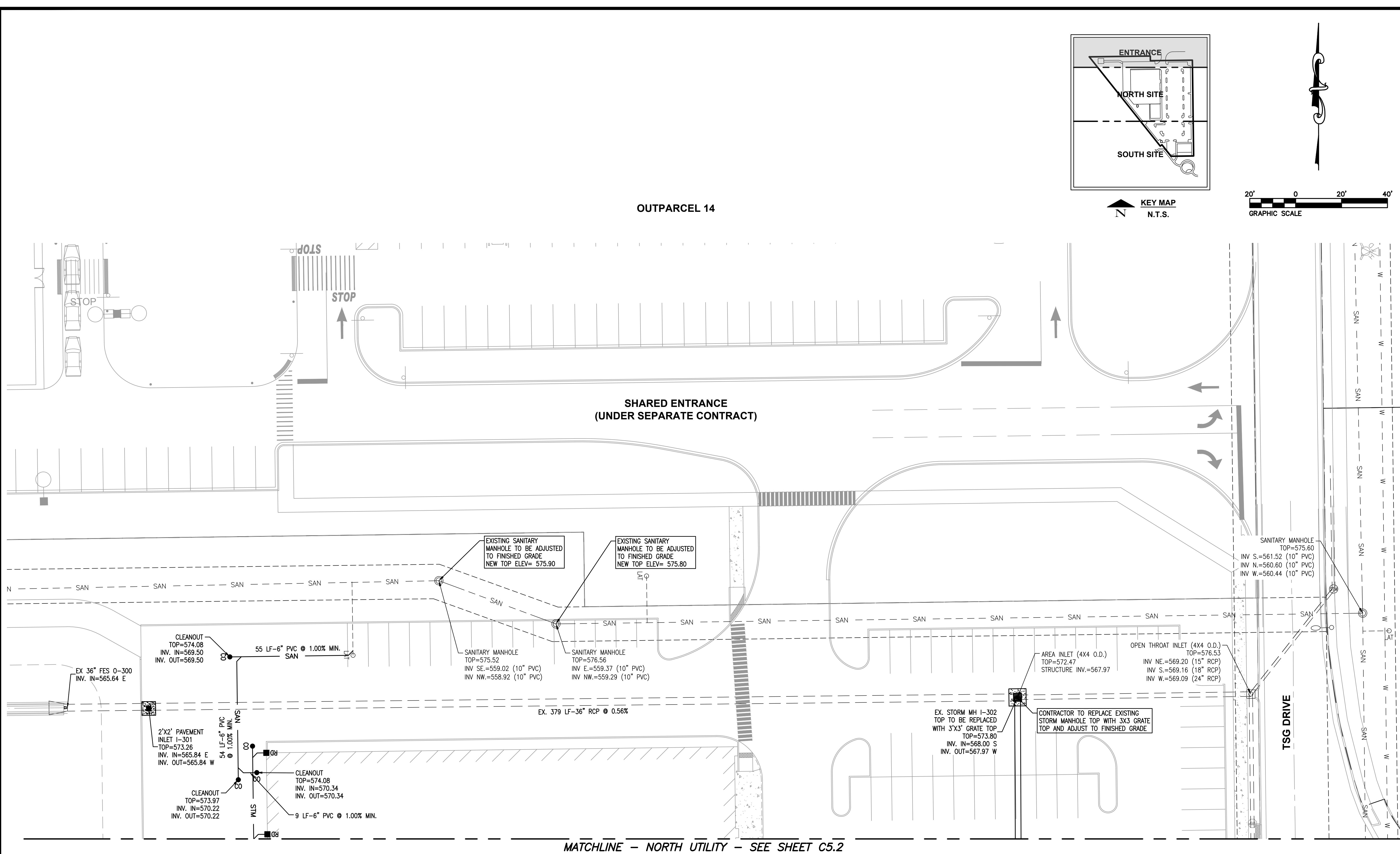


**PRELIMINARY**

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P:\2015\150464F\1 CAD - DWG\1.1 Comm\150464F-01C Outparcel 13 Improvement Plan.dwg Plotted By: Becker



N  
KEY MAP  
N.T.S.

20' 0 20' 40'  
GRAPHIC SCALE



CONSULTING ENGINEERING  
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PROF. LICENSE	NUMBER
IL. PROF. DESIGN FIRM	184-001220
IL. PROF. ENGR. CORP.	62-035370
IL. PROF. STR. ENGR. CORP.	81-005202
IL. PROF. LAND SURV. CORP.	048-000029
KS. PROF. ENGR. FACILITY	E-3256
MO. PROF. ENGR. CORP.	001528
MO. LAND SURVEYING CORP.	000346
TN. PROF. ENGR. FIRM	8974

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DATE SIGNED:  
LICENSE EXPIRATION:

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REV.	DATE	DESCRIPTION
△		
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DRAWN BY: DAB  
DESIGNED BY: DLL  
CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

PROJECT:  
  
ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

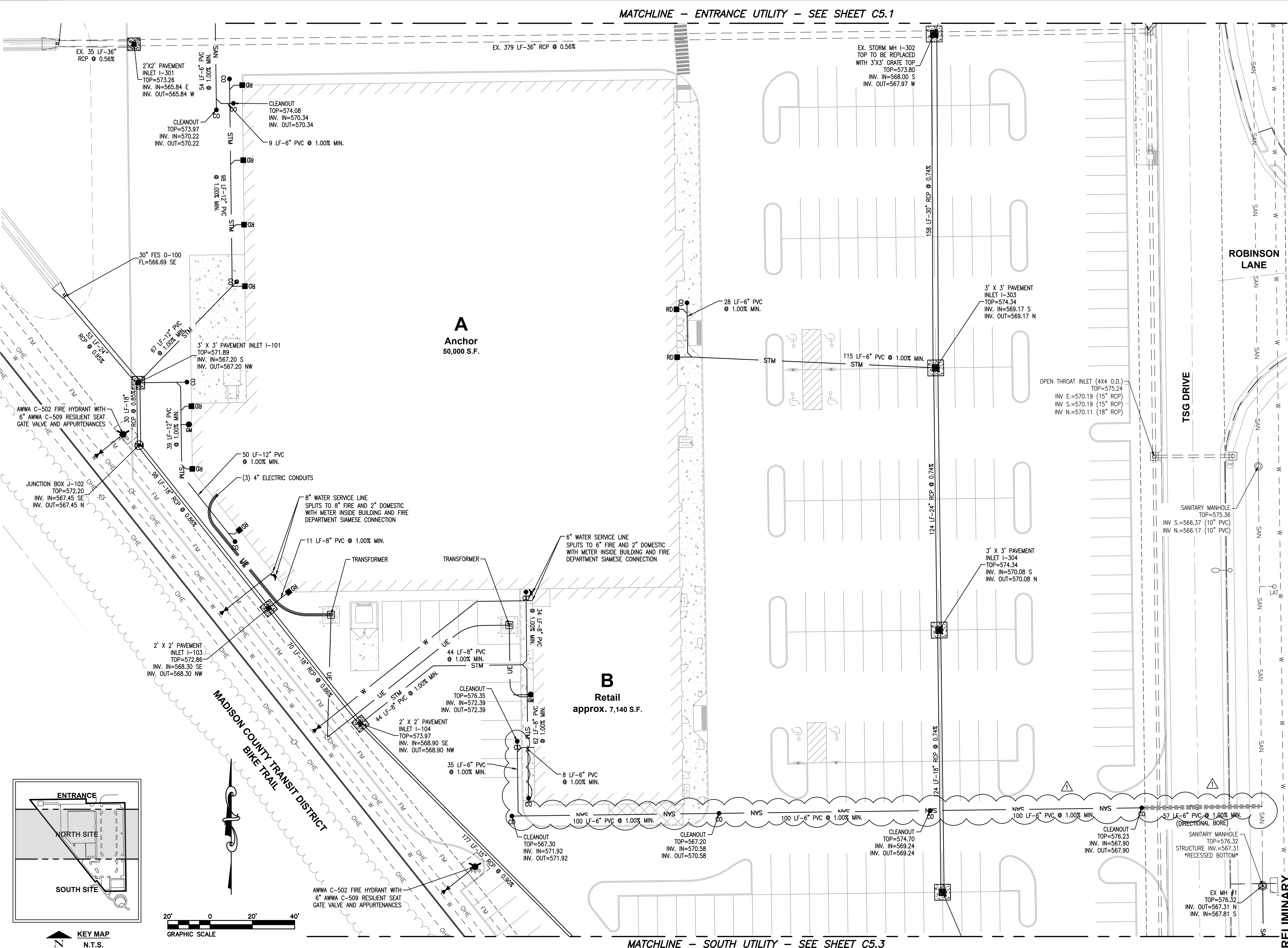
TITLE:  
  
UTILITY PLAN  
ENTRANCE

C5.1

PRELIMINARY



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REV.	DATE	DESCRIPTION
△	8-24-23	VILLAGE OF GLEN CARBON REVIEW
△		
△		
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PROJECT NO: D10150464F

PROJECT:

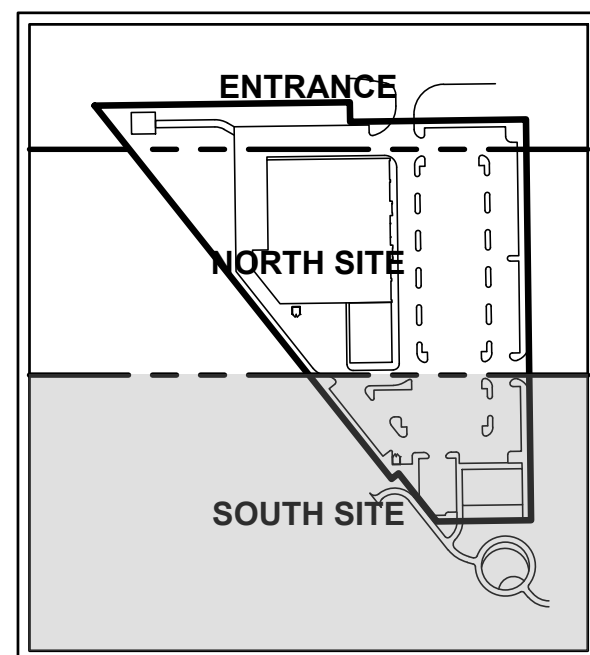
ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

UTILITY PLAN  
NORTH

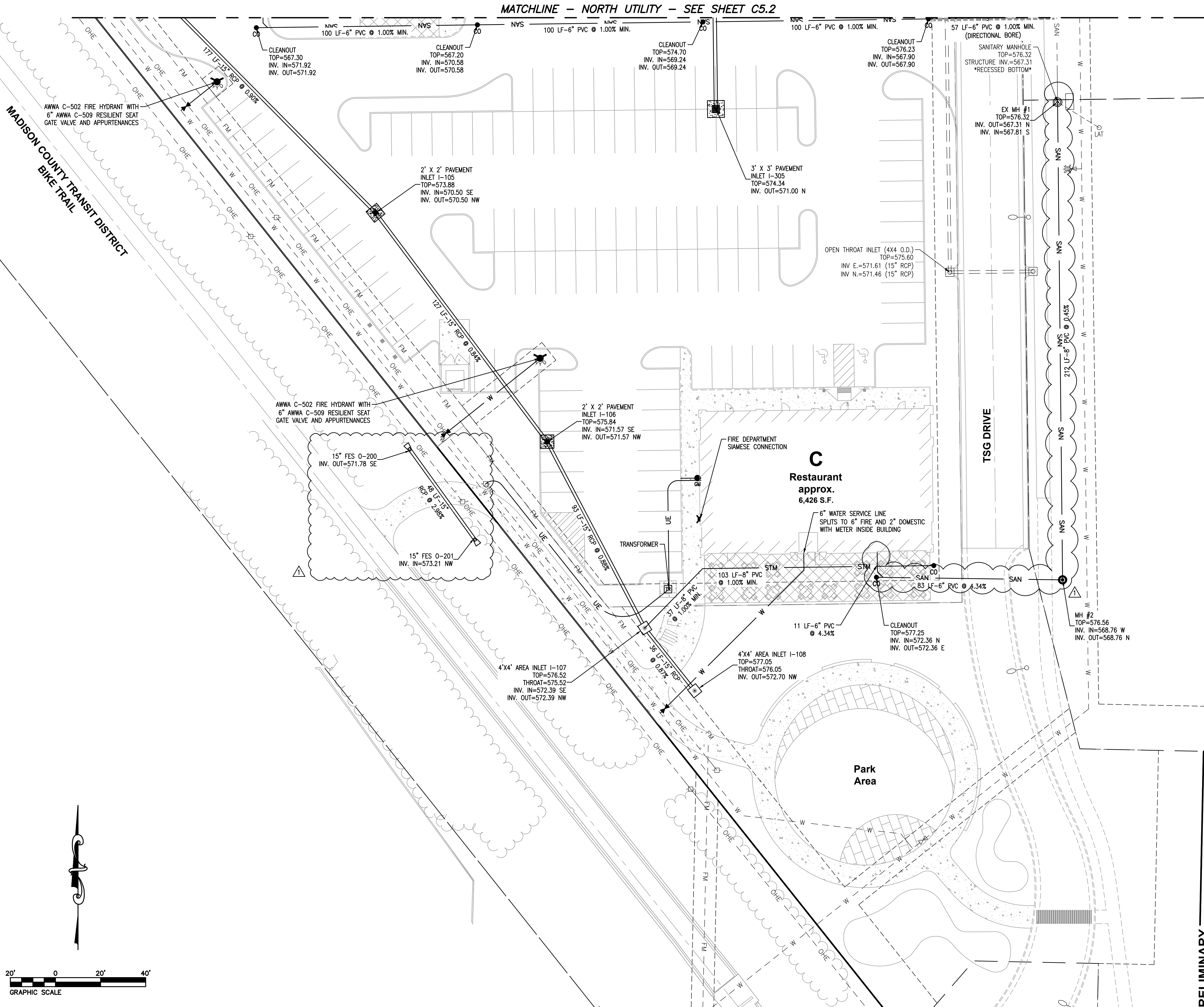


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KEY MAP  
N.T.S.

20' 0 20' 40'  
GRAPHIC SCALE



PRELIMINARY



CONSULTING ENGINEERING  
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△		

DRAWN BY:	DAB
DESIGNED BY:	DLI
CHECKED BY:	DLI
APPROVED BY:	MJM
PROJECT NO:	D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

UTILITY PLAN  
SOUTH

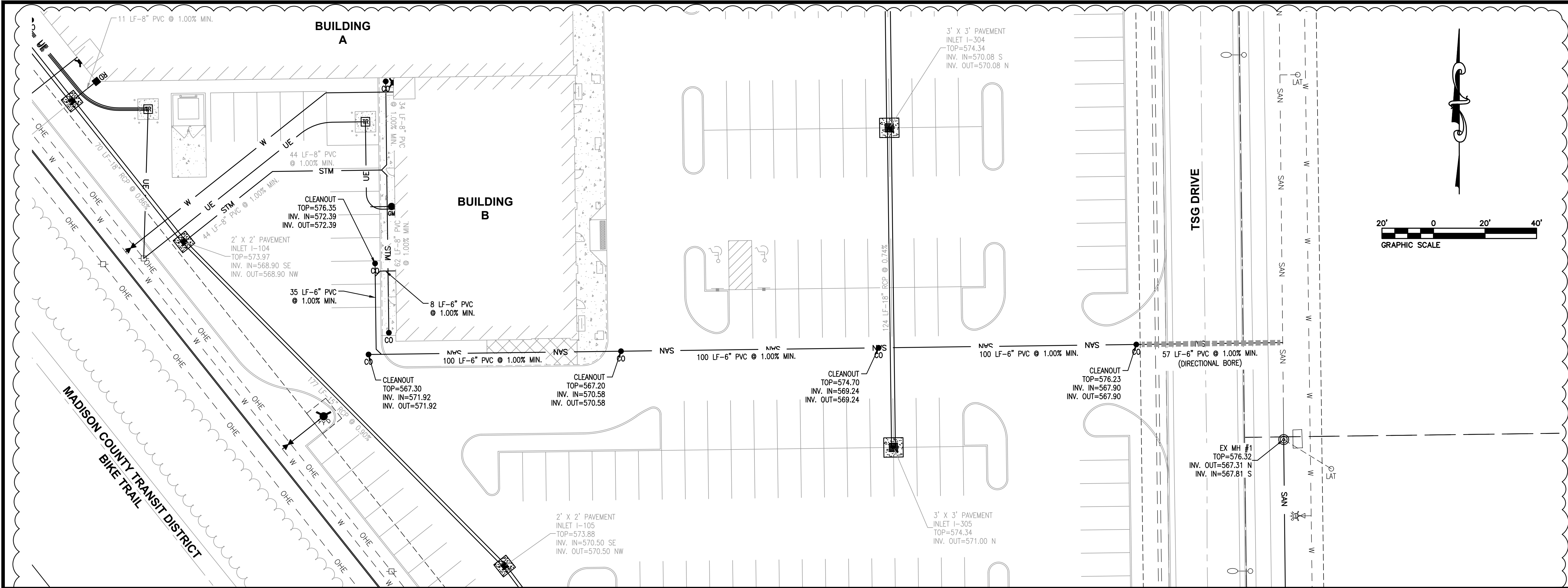
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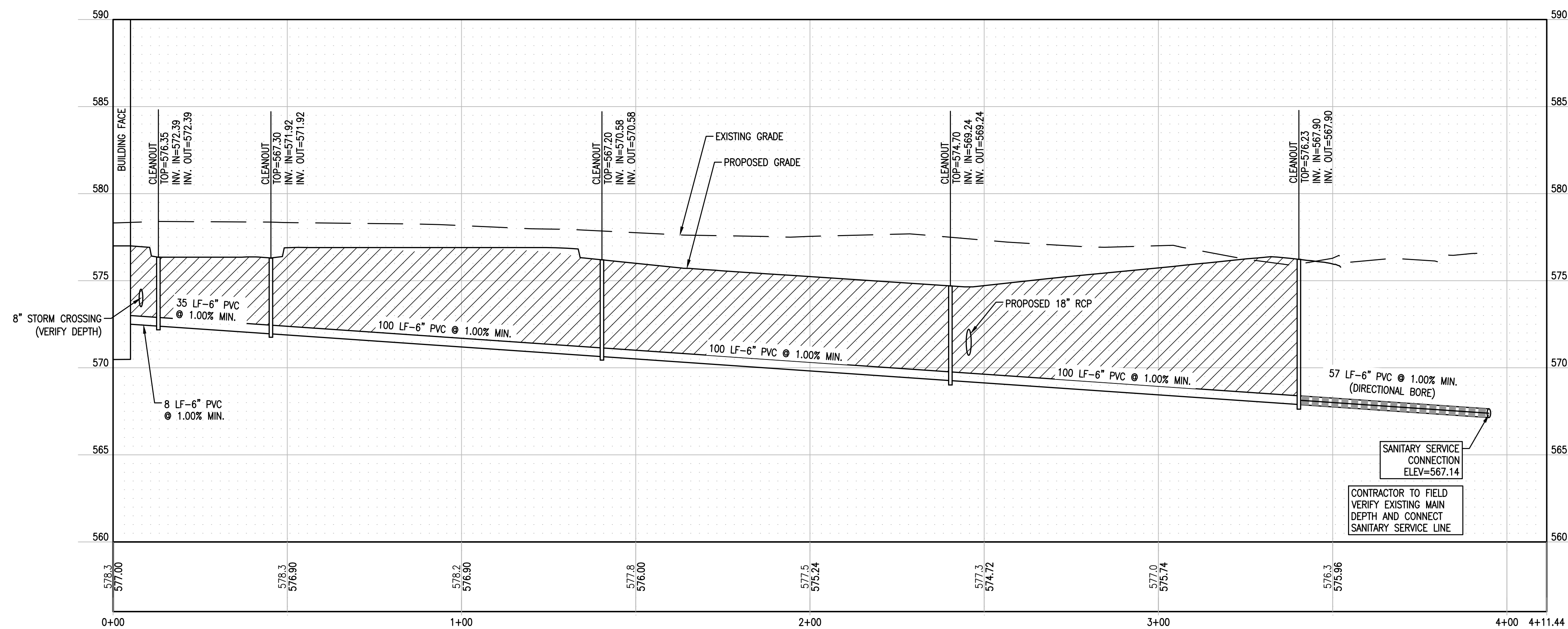




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BUILDING B SANITARY SERVICE (0+00.00 - 4+11.44)



PRELIMINARY

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DRAWN BY: DAB  
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CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

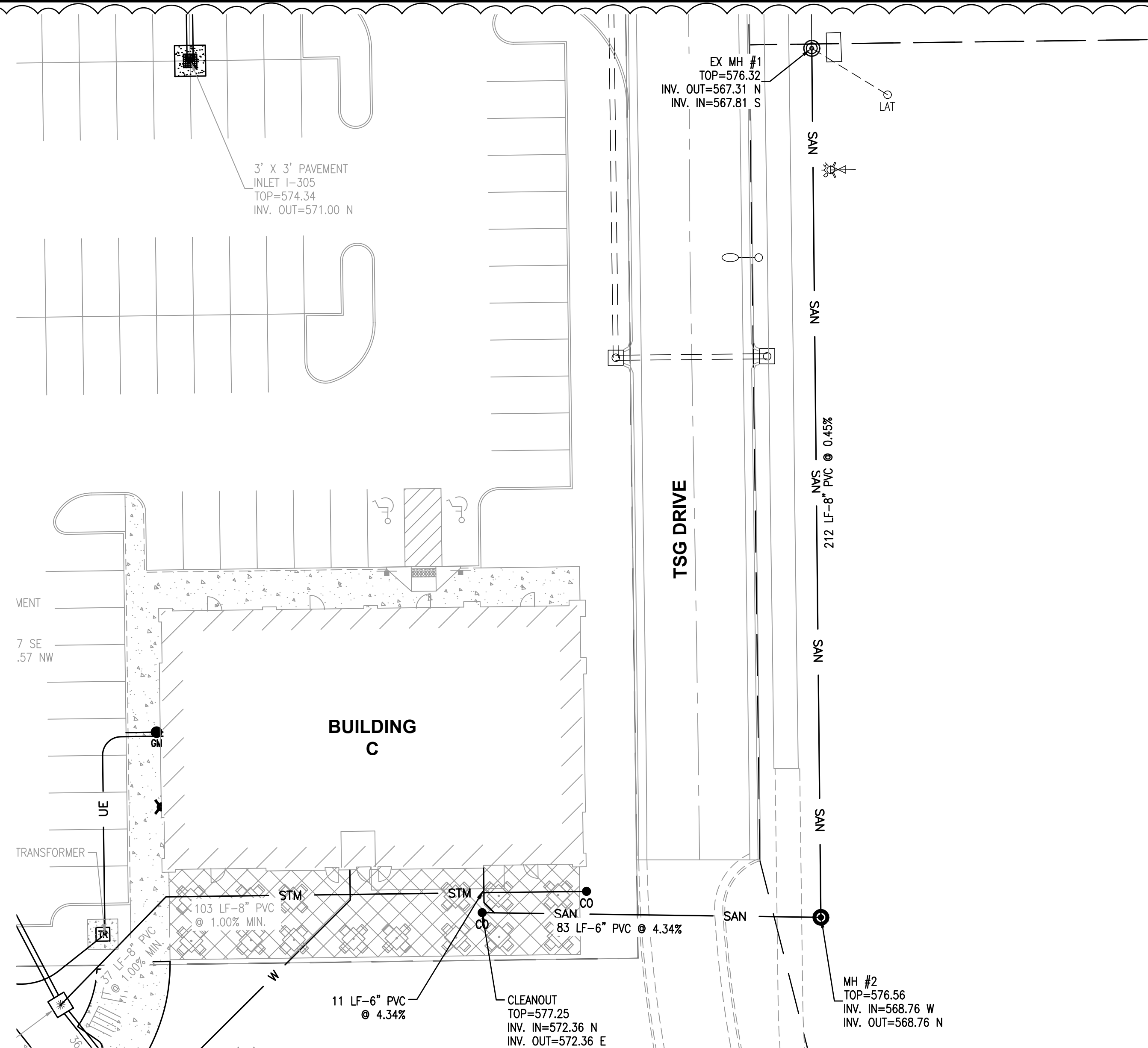
PROJECT:  
  
ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:  
  
SANITARY SEWER SERVICE  
PLAN AND PROFILE  
BUILDING B

**C5.5**



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CONSULTING ENGINEERING  
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PROF. LICENSE	NUMBER
IL. PROF. DESIGN FIRM	184-001220
IL. PROF. ENGR. CORP.	62-035370
IL. PROF. STR. ENGR. CORP.	81-005202
IL. PROF. LAND SURV. CORP.	048-000029
KS. PROF. ENGR. FACILITY	E-3256
MO. PROF. ENGR. CORP.	001528
MO. LAND SURVEYING CORP.	000346
TN. PROF. ENGR. FIRM	8974

SEAL

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DATE SIGNED:  
LICENSE EXPIRATION:

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AUGUST 14, 2023

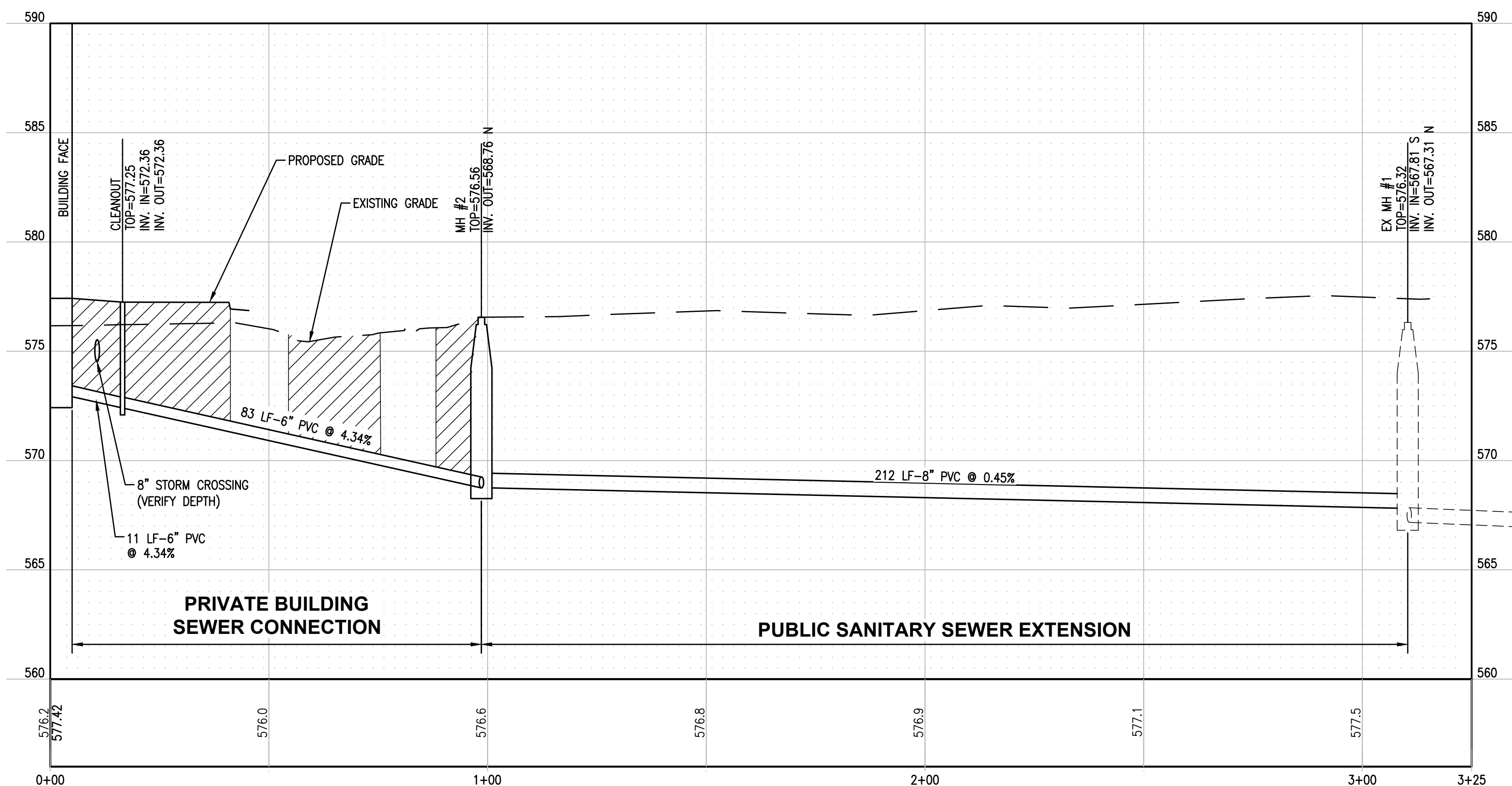
REV.	DATE	DESCRIPTION
△	8-24-23	VILLAGE OF GLEN CARBON REVIEW
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DRAWN BY: DAB  
DESIGNED BY: DLL  
CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

PROJECT:  
  
ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:  
  
SANITARY SEWER SERVICE  
PLAN AND PROFILE  
BUILDING C

C5.6

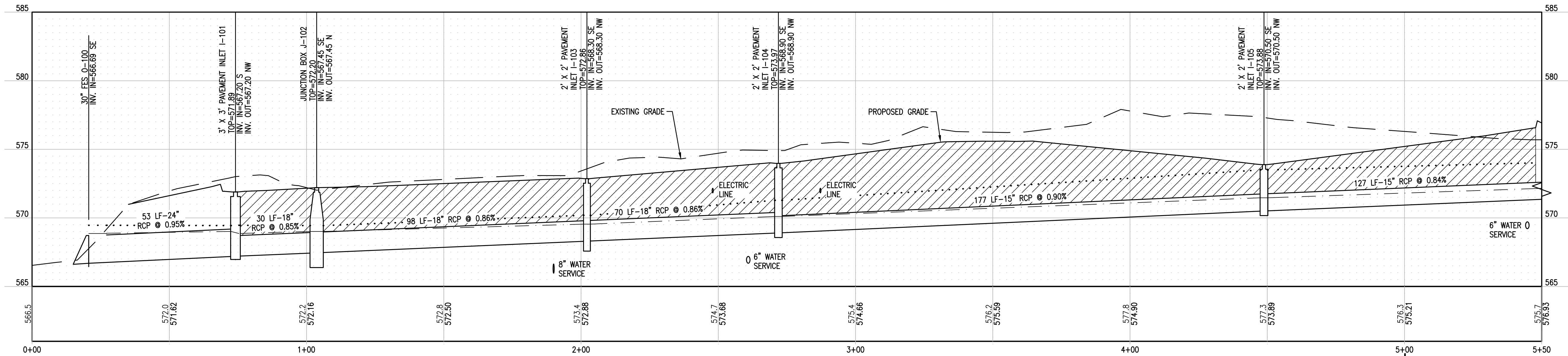


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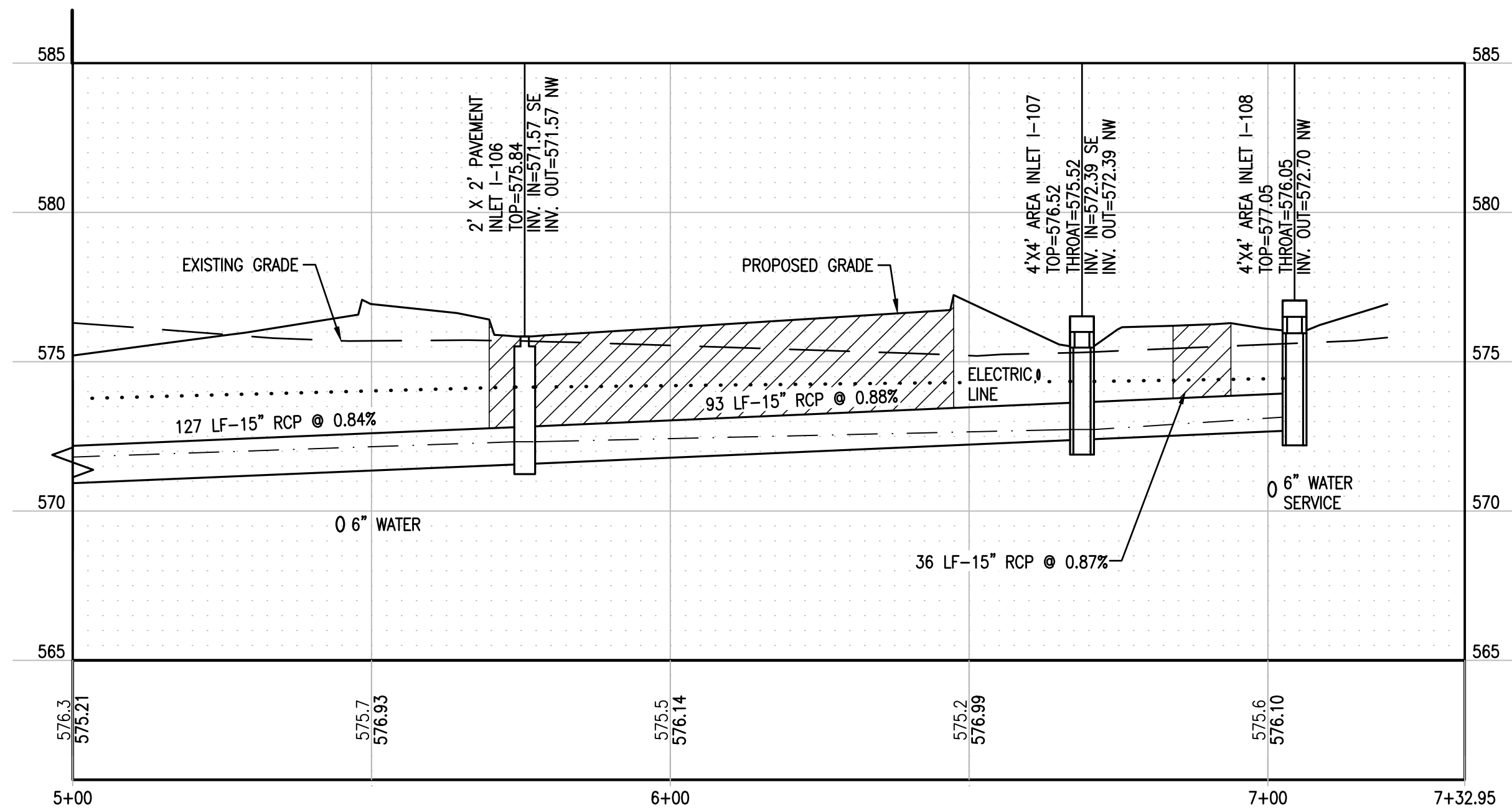


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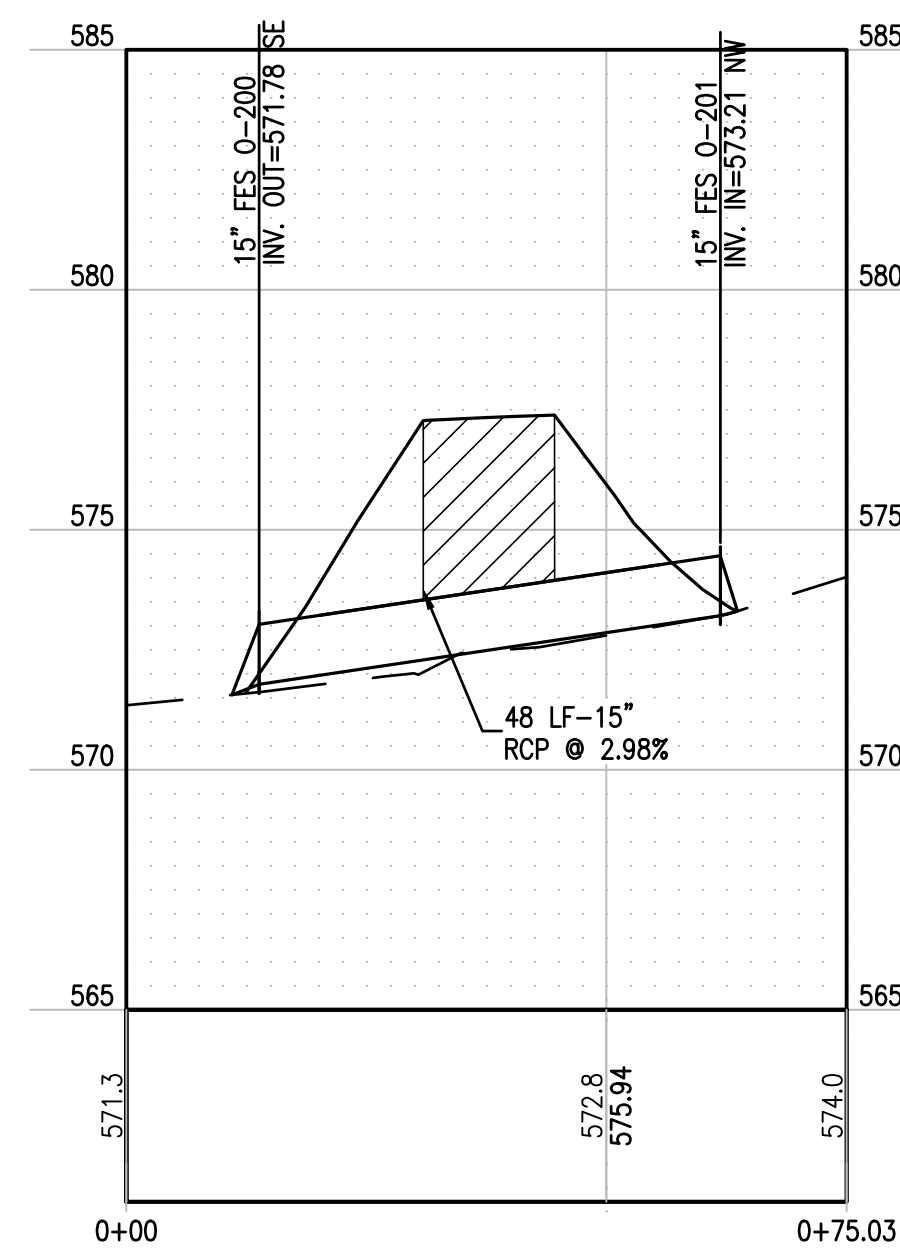
0-100 TO I-108 (0+00.00 - 5+50.00)



0-100 TO I-108 (5+00.00 - 7+32.95)



BIKE TRAIL CULVERT (0+00.00 - 0+75.03)



--- EXISTING GRADE  
— PROPOSED GRADE  
--- 25-YEAR HYDRAULIC GADE LINE  
... 100-YEAR HYDRAULIC GRADE LINE  
[Hatched Area] AGGREGATE BACKFILL

PRELIMINARY

**TWM**

CONSULTING ENGINEERING  
GEOSPATIAL SERVICES

ILLINOIS SWANSEA  
COLUMBIA  
GLEN CARBON  
PEORIA

MISSOURI ST. CHARLES  
ST. LOUIS  
COLUMBIA

TENNESSEE NASHVILLE  
CHATTANOOGA

**THOUVENOT, WADE  
& MOERCHEN, INC.**

SWANSEA OFFICE  
4940 OLD COLLINSVILLE RD.  
SWANSEA, ILLINOIS  
62226-2025  
TEL (618) 624-4488  
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KS. PROF. ENGR. FACILITY	E-3256
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PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

STORM SEWER  
PROFILES

C5.7





ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA
MISSOURI	ST. CHARLES ST. LOUIS COLUMBIA
TENNESSEE	NASHVILLE CHATTANOOG.

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PROF. LICENSE	NUMBER
IL. PROF. DESIGN FIRM	184-0012
IL. PROF. ENGR. CORP.	62-0353
IL. PROF. STR. ENGR. CORP.	81-00522
IL. PROF. LAND SURV. CORP.	048-0000
KS. PROF. ENGR. FACILITY	E-32
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MO. LAND SURVEYING CORP.	0003
TN. PROF. ENGR. FIRM	89

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DRAWN BY:	DA
DESIGNED BY:	DI
CHECKED BY:	DI
APPROVED BY:	MJ
PROJECT NO:	D10150464

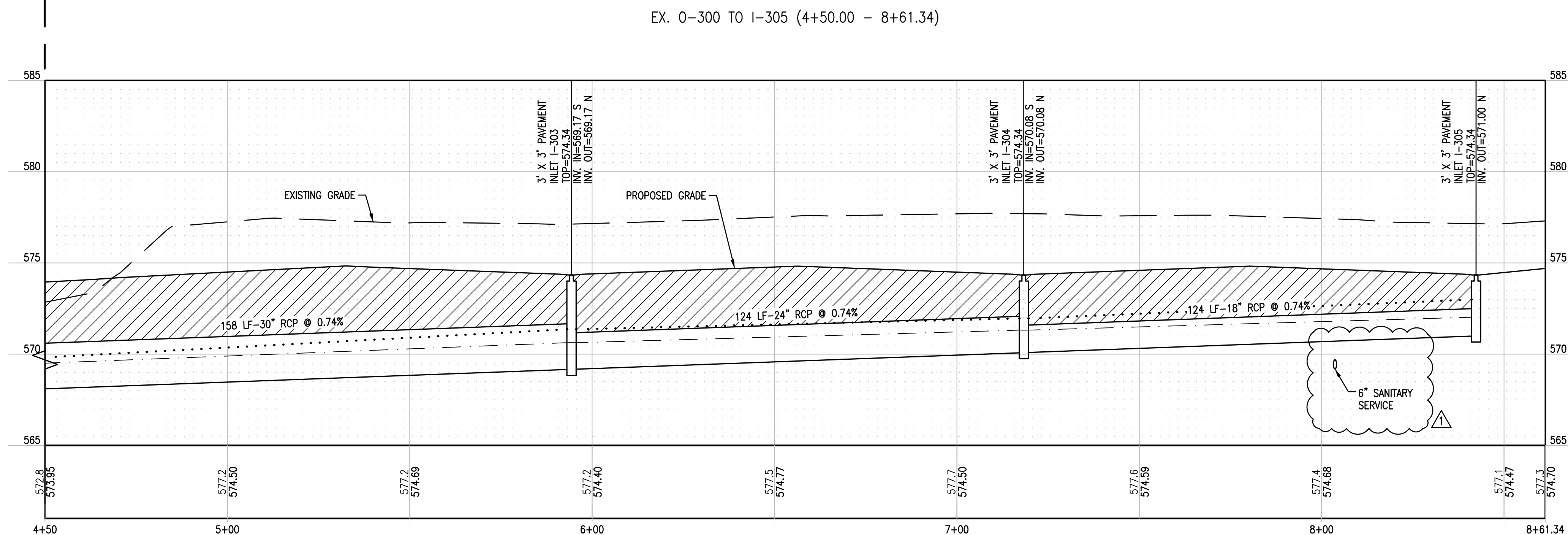
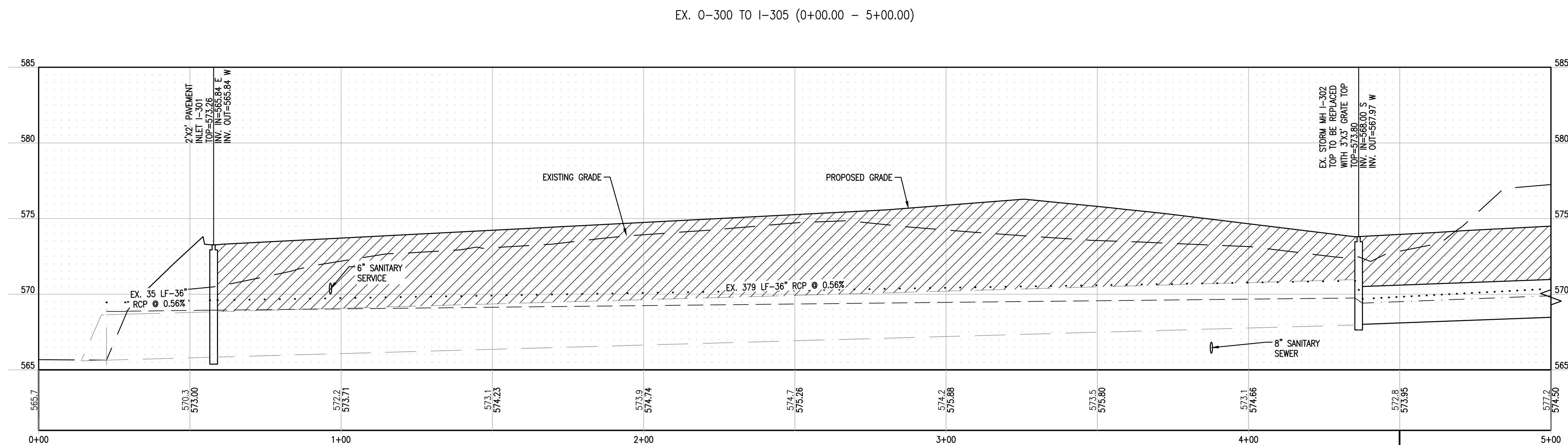
PROJECT:






ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

## STORM SEWER PROFILES

## C5.8

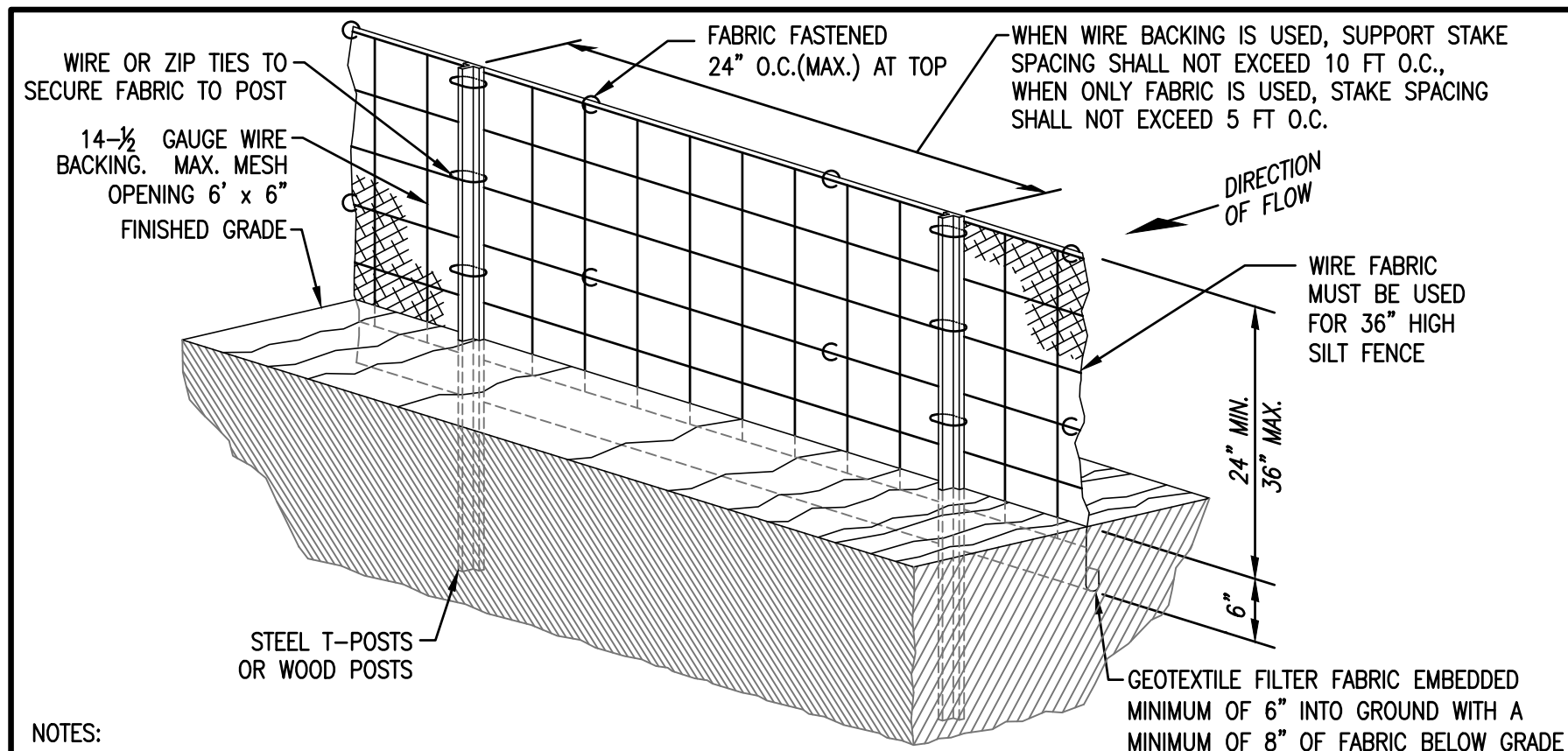


-  EXISTING GRADE  
 PROPOSED GRADE  
 25-YEAR HYDRAULIC GADE LINE  
 100-YEAR HYDRAULIC GRADE LINE  
 AGGREGATE BACKFILL

**PRELIMINARY**



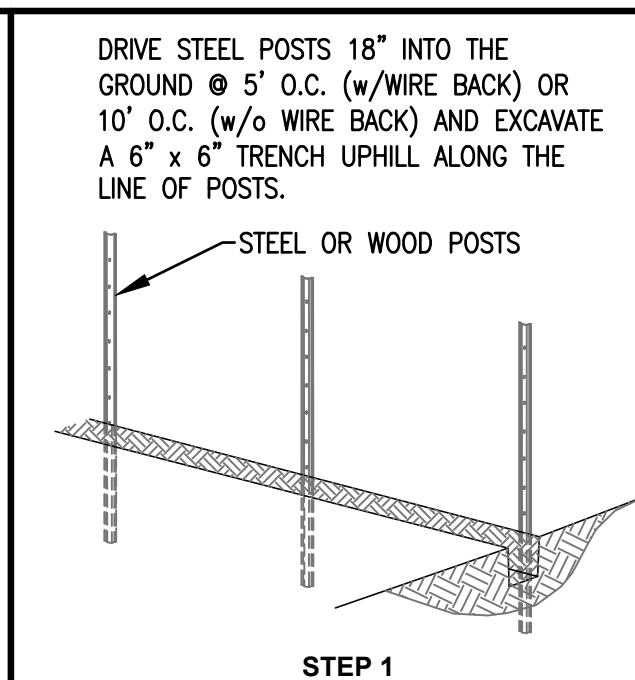
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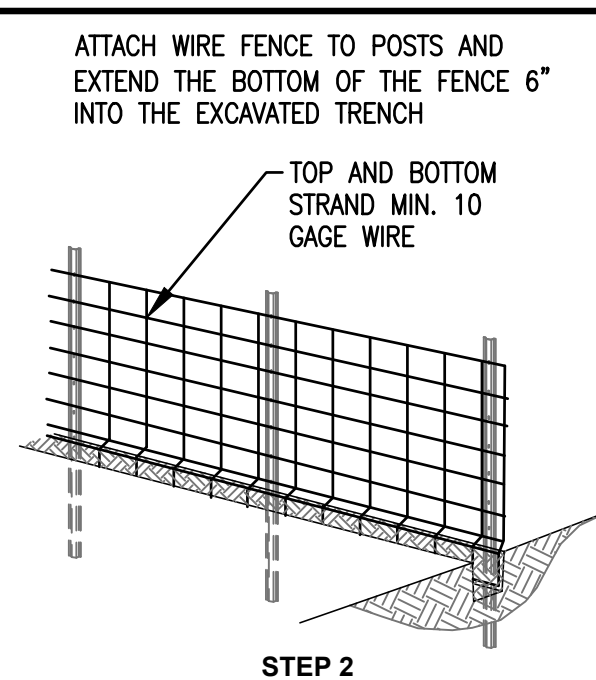
NOTES:

- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE GROUND COVER IS REMOVED WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE. A RUN OF SILT FENCE SHOULD FOLLOW THE CONTOUR AS CLOSE AS POSSIBLE WITH THE ENDS TURNED UPSLOPE TO POND WATER BEHIND THE FENCE.
- THE SILT FENCE SHOULD BE BURIED AT LEAST 6" DEEP AND HAVE A TOTAL OF 8" OF FABRIC BELOW THE GROUND. THIS CAN BE ACCOMPLISHED WITH A TRENCHER, CABLE LAYING MACHINE, SLICING MACHINE OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH.
- THE STAKES SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE GEOTEXTILE FABRIC. THE STAKES SHALL BE A MINIMUM OF 2" X 2" NOMINAL (1-1/2" X 1-1/2" ACTUAL) HARDWOOD STAKE OF SOUND QUALITY. WOOD POSTS SHALL BE A MINIMUM OF 6' IN HEIGHT. WIRE FABRIC SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN #9 WIRE STAPLES 1-1/2" INCHES LONG. T-POSTS MAY BE SUBSTITUTED IF GROUND CONDITIONS REQUIRE. STEEL POSTS SHALL BE A MINIMUM OF 5' IN HEIGHT AND SHALL BE THE SELF FASTENER ANGLE STEEL TYPE.
- WHERE TWO SILT FENCE SECTIONS ARE COMBINED INTO ONE RUN, THE END STAKES SHALL BE CONNECTED TOGETHER, NOT SIMPLY OVERLAPPED.
- WIRE SHALL BE A MINIMUM OF 32 INCHES IN WIDTH AND SHALL BE 6" X 6".
- FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH. FABRIC THAT DETERIORATES TO SUCH EXTENT THAT ITS EFFECTIVENESS IS REDUCED SHALL BE REPLACED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL REVIEW SILT FENCE PERIODICALLY AND AFTER EACH RAINFALL OCCURRENCE. ANY NECESSARY REPAIRS OR CLEAN-UP TO MAINTAIN THE EFFECTIVENESS OF THE DEVICE SHOULD BE MADE IMMEDIATELY.
- IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) AN ADDITIONAL RUN OF SILT FENCE SHALL BE PLACED UPSTREAM, 2) THE LAYOUT OF THE FENCE SHALL BE CHANGED, 3) ACCUMULATED SEDIMENT SHALL BE REMOVED OR 4) OTHER PRACTICES SHOULD BE IMPLEMENTED.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY THE CONTRACTOR ONCE STABILIZATION OR SUFFICIENT GROUND COVER IS ACHIEVED AS DIRECTED BY THE ENGINEER.

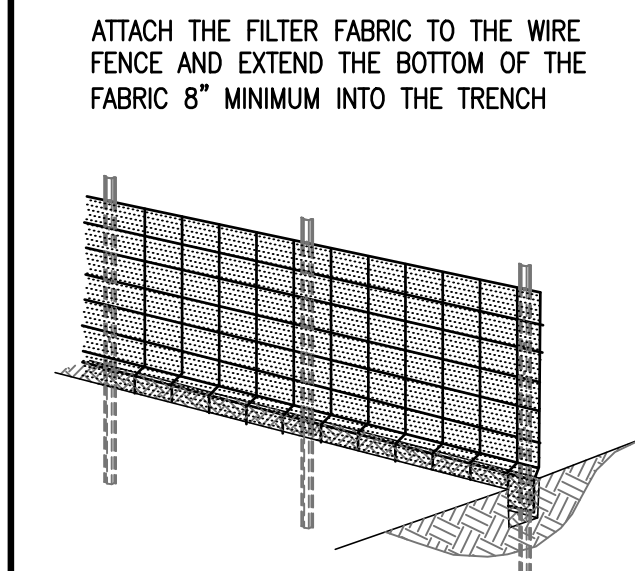
SILT FENCE



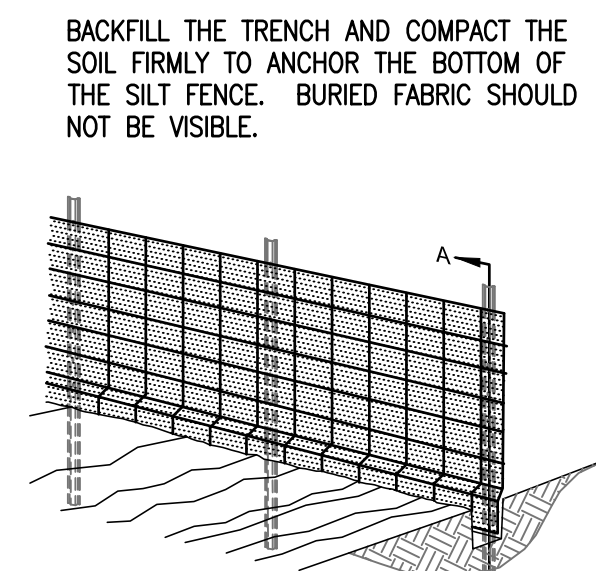
STEP 1



STEP 2



STEP 3

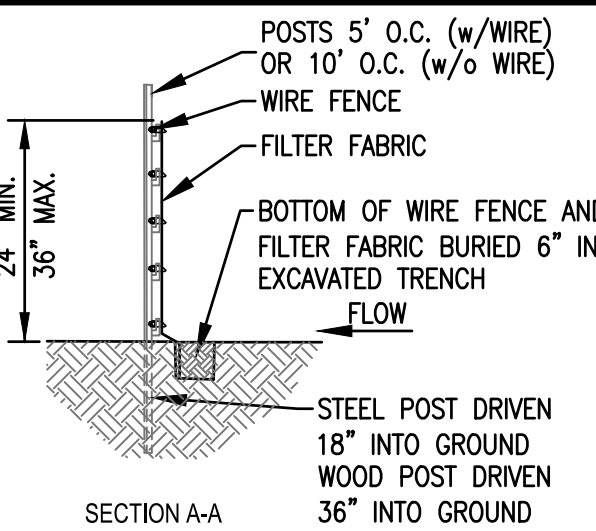


STEP 4

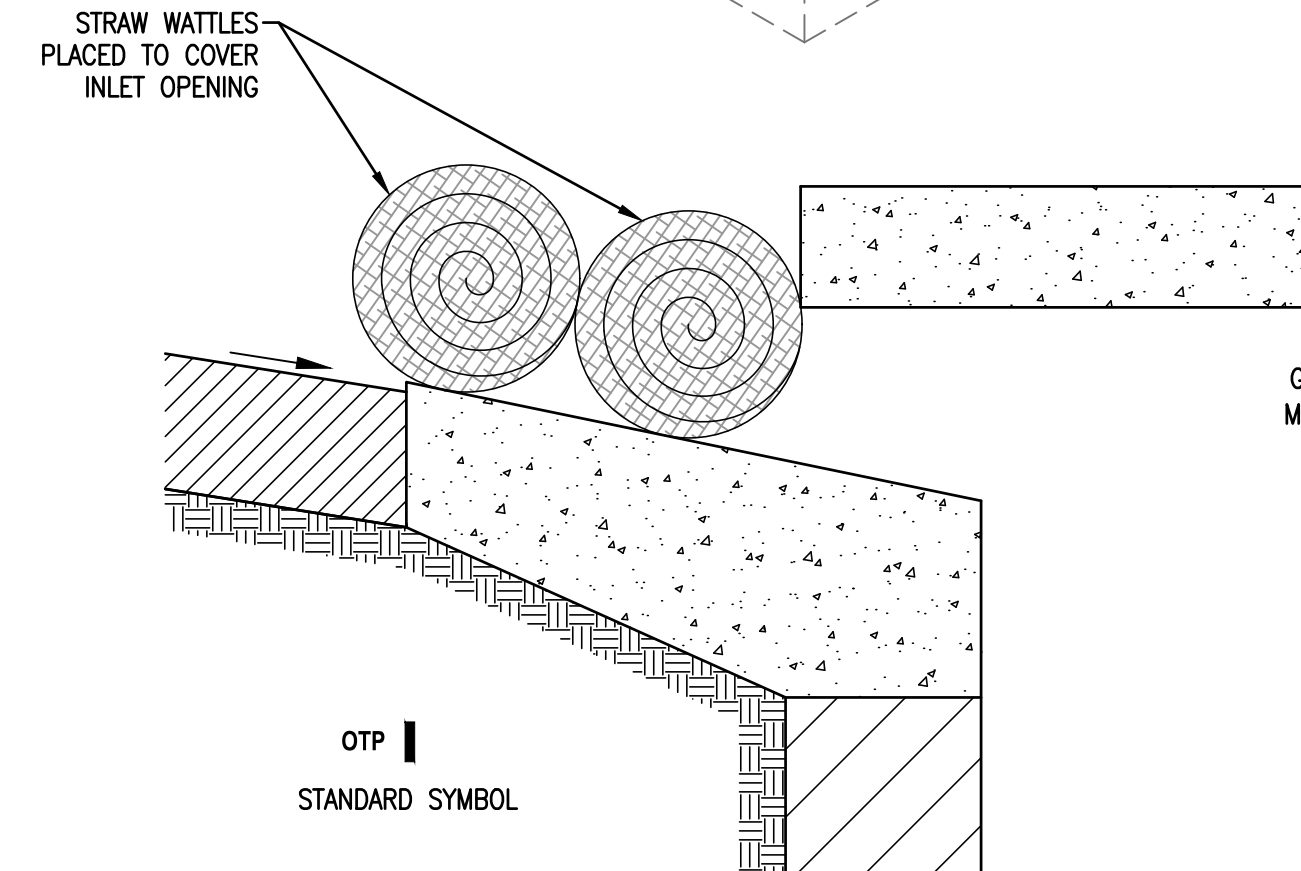
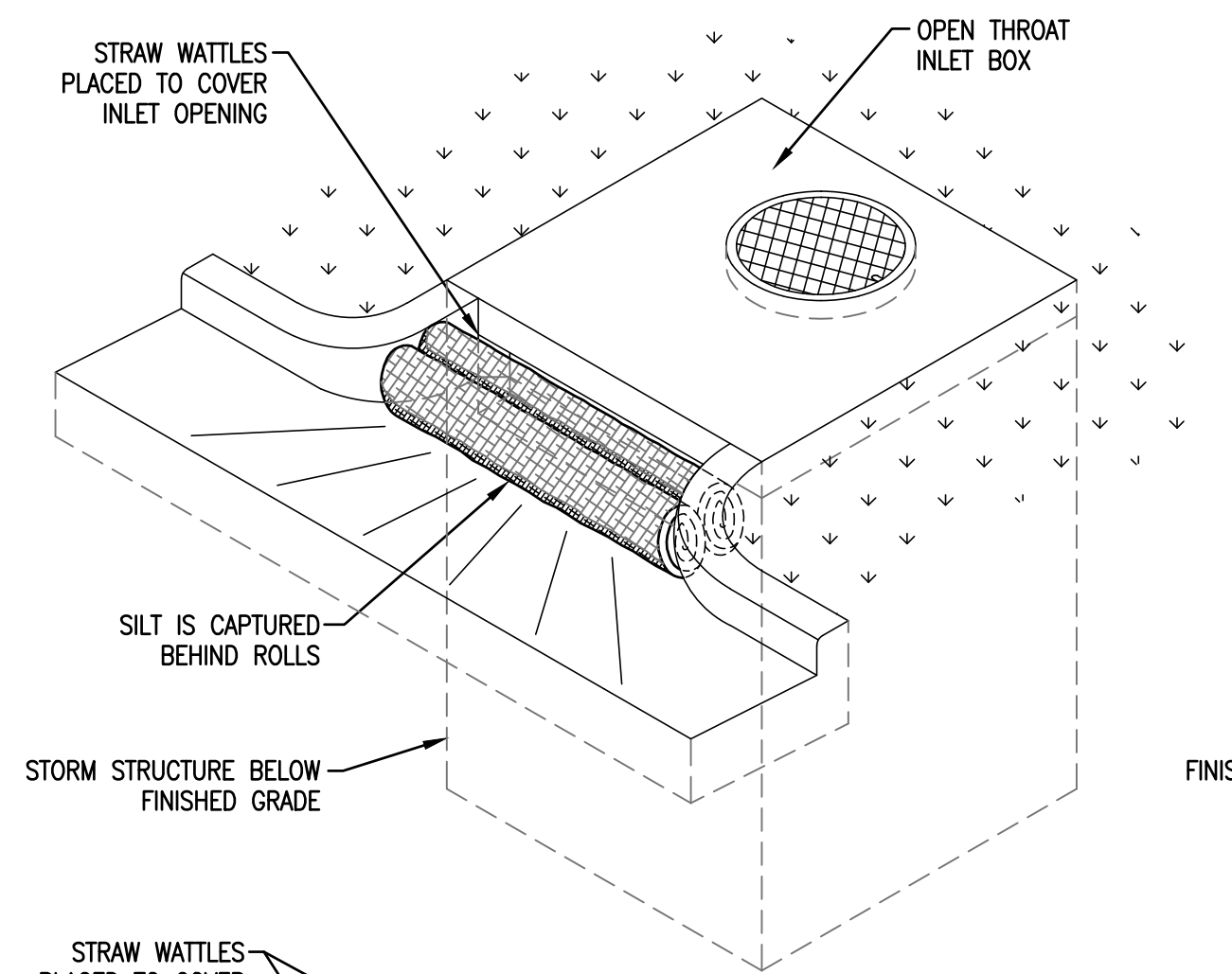
CRITERIA FOR USAGE:  
1. MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO SILT FENCE SHALL BE AS FOLLOWS:

PER CENT SLOPE SPACING (FT.)	MAX.
25	50
20	75
15	125
10	175
< 10	200

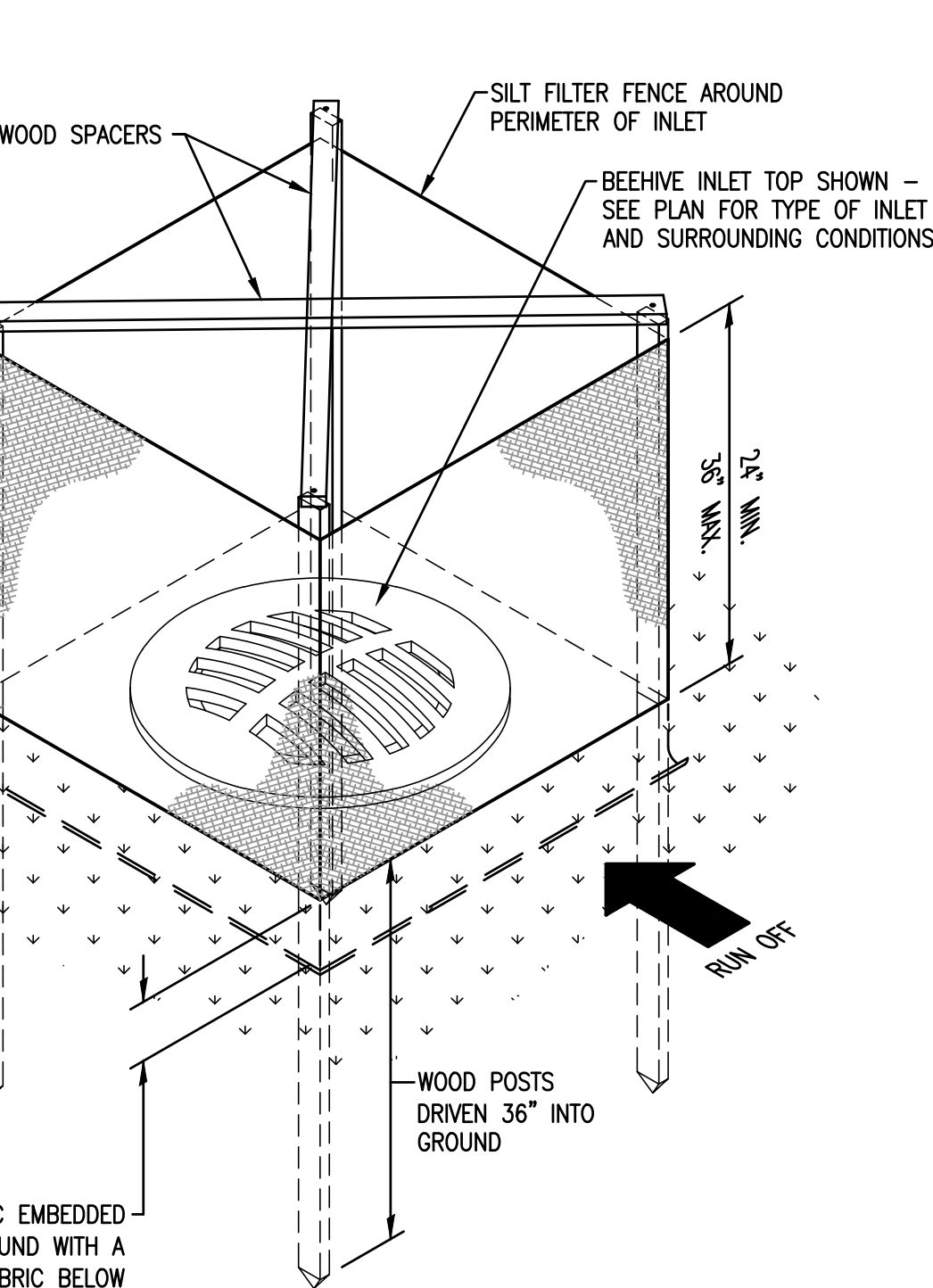
2. MAX. DRAINAGE AREA FOR FLOW TO SILT FENCE SHALL NOT EXCEED 0.5 ACRES PER 100 FT. OF FENCE.



SECTION A-A



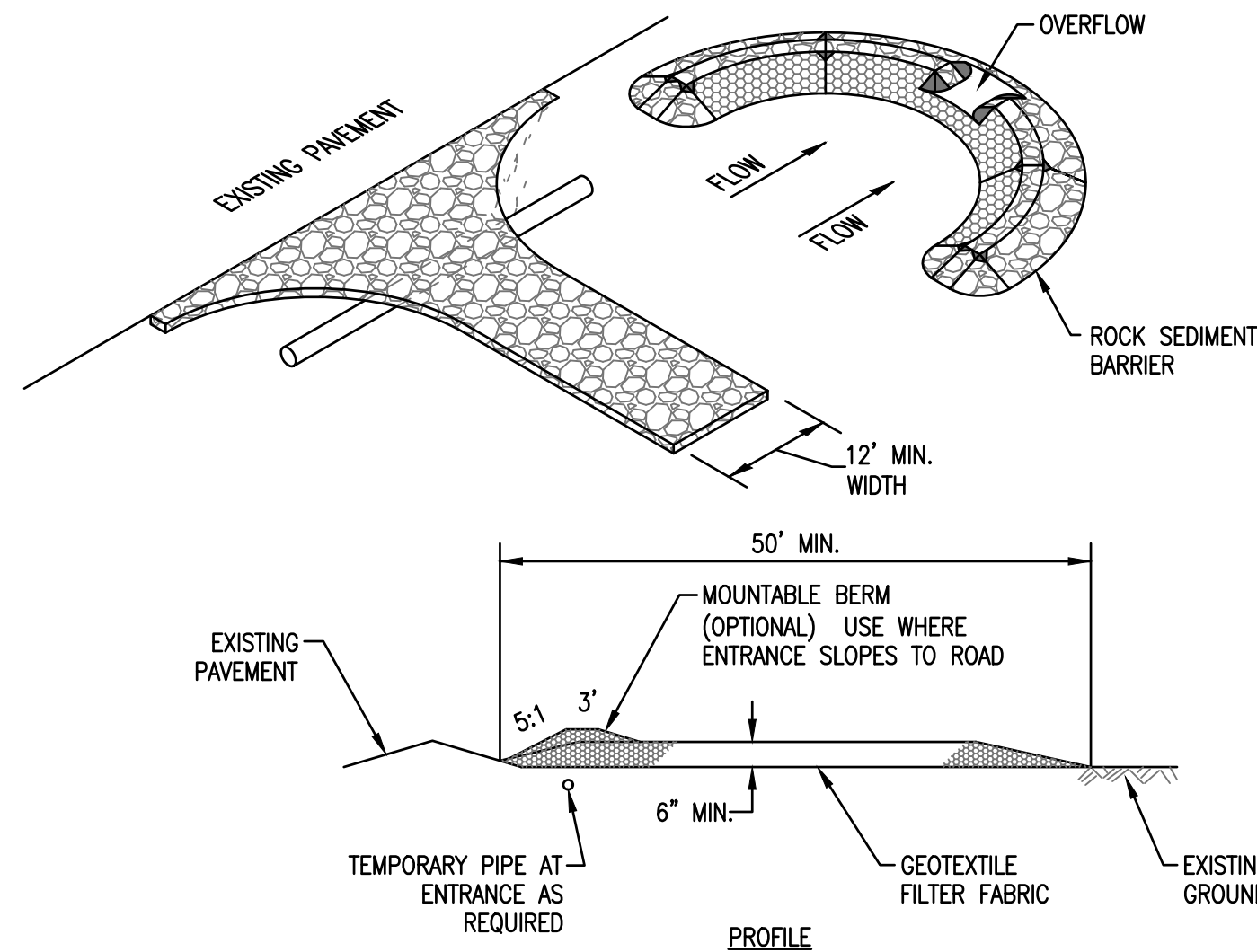
OPEN THROAT INLET SEDIMENT PROTECTION - STRAW WATTLES



NOTES:

INSTALLATION PROCEDURE OF INLET SEDIMENT PROTECTION SHALL MATCH SPECIFICATIONS LISTED AT SILT FENCE DETAIL ON THE SEDIMENT CONTROL DETAIL SHEET.

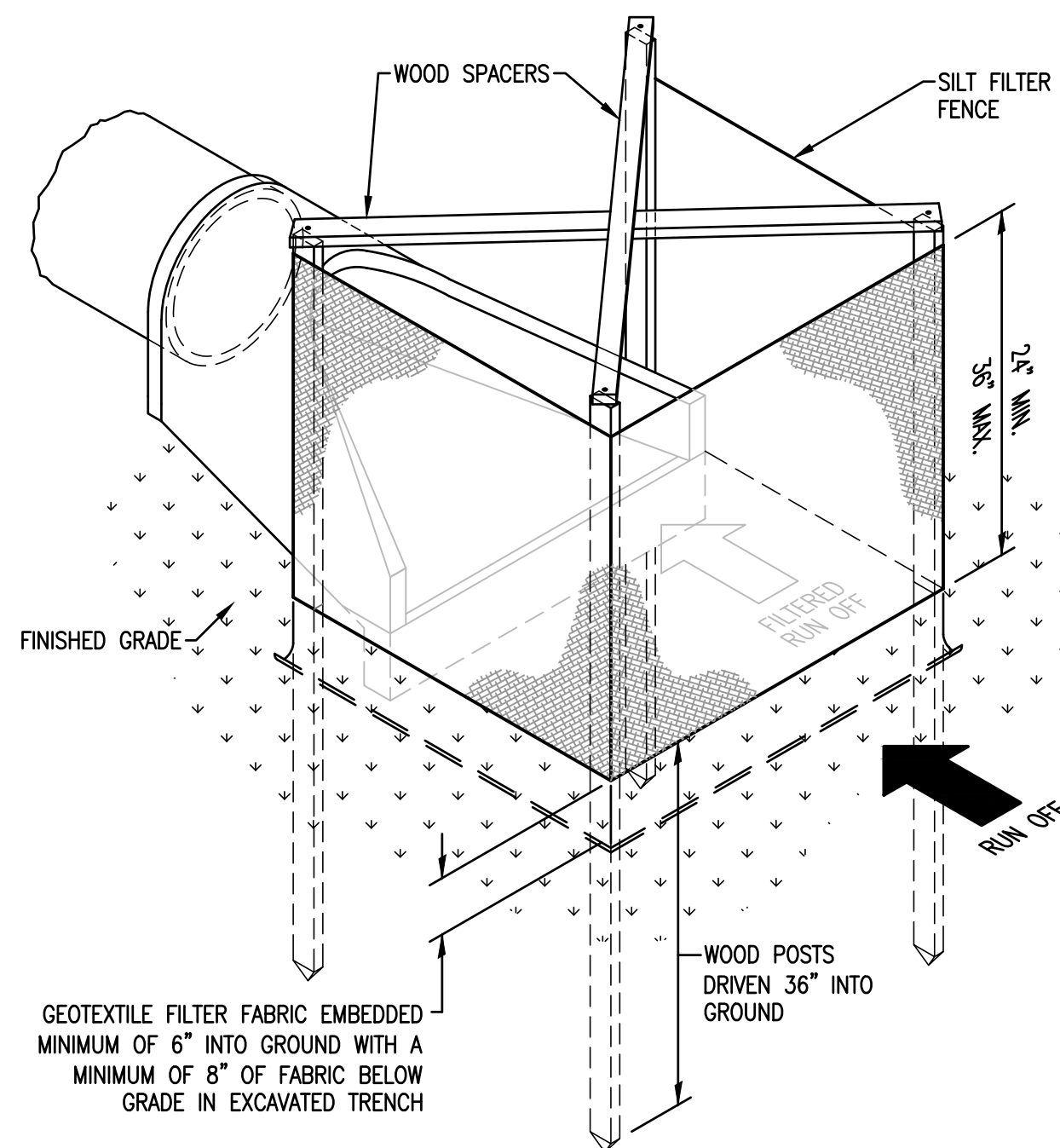
TYPICAL INLET SEDIMENT PROTECTION



CONSTRUCTION CRITERIA

- STONE SIZE - USE 2" STONE.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT FOR SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM ALLOWED).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

TEMPORARY CONSTRUCTION ENTRANCE

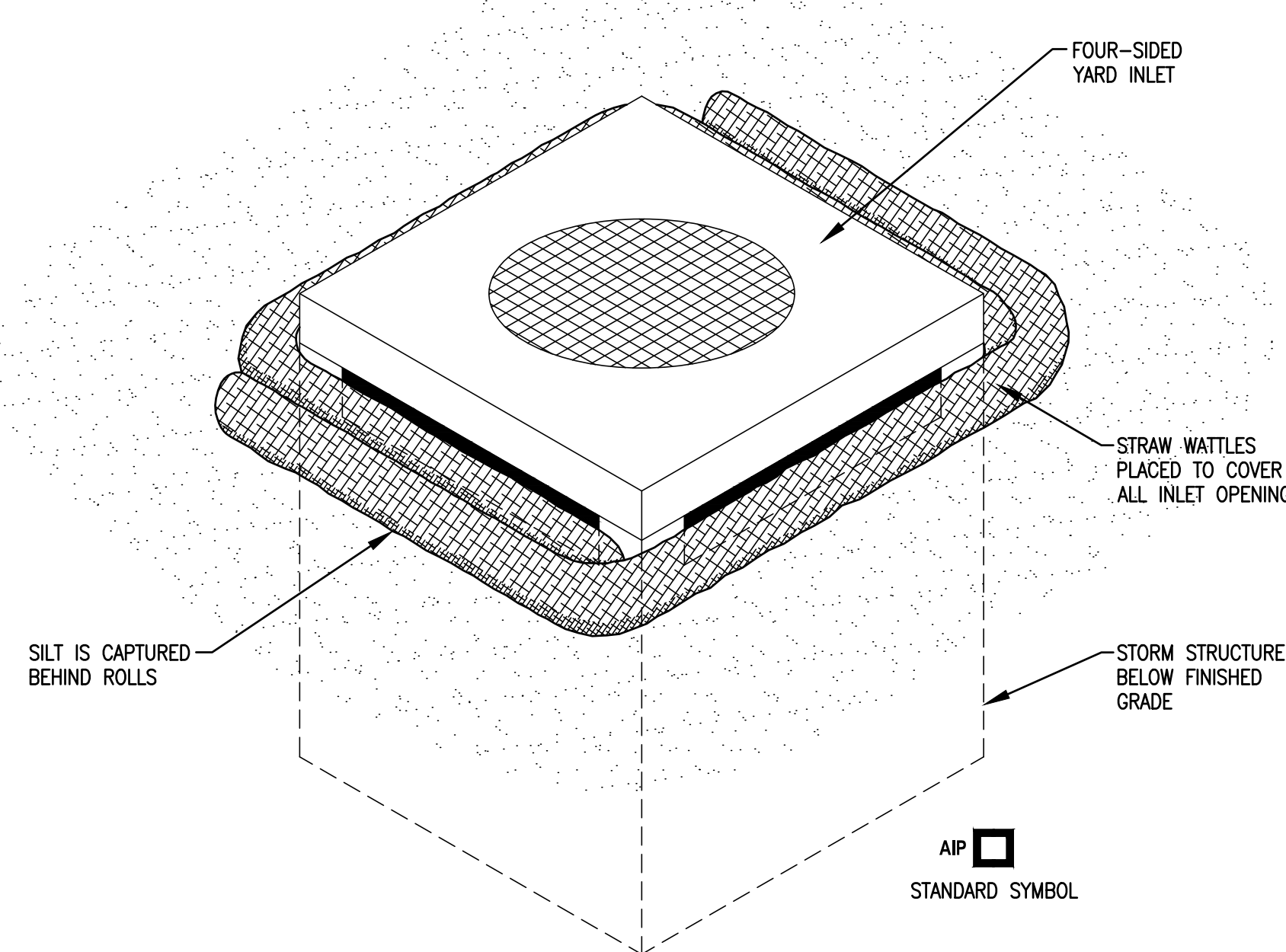


PSP  
STANDARD SYMBOL

NOTES:

INSTALLATION PROCEDURE OF PIPE SEDIMENT PROTECTION SHALL MATCH SPECIFICATIONS LISTED AT SILT FENCE DETAIL ON THE SEDIMENT CONTROL DETAIL SHEET.

PIPE SEDIMENT PROTECTION



NOTES:

- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- FIBER ROLLS SHOULD BE INSPECTED AFTER EVERY SIGNIFICANT STORM EVENT TO CLEAR AND DISPOSE OF SEDIMENT AND DEBRIS.

SPECIFICATIONS:

WATTLES SHALL BE A STRAW-FILLED TUBE OF FLEXIBLE NETTING MATERIAL. IT SHALL BE A MACHINE PRODUCED TUBE OF COMPACTED RICE STRAW THAT IS CERTIFIED WEED FREE FORAGE, BY A MANUFACTURER WHOSE PRINCIPAL BUSINESS IS WATTLE MANUFACTURING. THE NETTING SHALL CONSIST OF SEAMLESS, HIGH DENSITY POLYETHYLENE, AND ETHYL VINYL ACETATE AND CONTAIN ULTRAVIOLET LIGHT INHIBITORS. THE WATTLE SHALL HAVE A MINIMUM MASS PER UNIT WEIGHT OF 1.6 LBS./FT., A MINIMUM DIAMETER OF 8.0 - 9.0 INCHES, A MINIMUM NET STRAND THICKNESS OF 0.03 INCHES, A MINIMUM NET KNOT THICKNESS OF 0.055 INCHES AND A MINIMUM NETTING UNIT WEIGHT OF 0.35 OUNCES/FOOT. THE SEDIMENT RETENTION CAPACITY OF THE WATTLE SHALL BE 30 LBS/FOOT. FIBRE CONTENT SHALL BE 100 PERCENT CERTIFIED RICE STRAW WITH A MINIMUM LENGTH OF 3.0.

AREA INLET PROTECTION

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CONSULTING ENGINEERING  
GEOSPATIAL SERVICES  
ILLINOIS SWANSEA COLUMBIA GLEN CARBON PEORIA  
MISSOURI ST. CHARLES ST. LOUIS COLUMBIA  
TENNESSEE NASHVILLE CHATTANOOGA

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PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

SEDIMENT CONTROL  
DETAILS





- BEDDING, HAUNCHING AND INITIAL BACKFILL SHALL BE CRUSHED GRAVEL OR STONE, GRADATION CA-7, CLASS 1A, CONFORMING TO THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION, AND TO ASTM D2321-05 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW INSTALLATIONS."

FINAL BACKFILL UNDER PAVEMENT OR STRUCTURAL AREAS SHALL BE CRUSHED GRAVEL OR STONE, GRADATION CA-7, CLASS 1A, CONFORMING TO THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION, AND TO ASTM D2321-05 "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW INSTALLATIONS."

FINAL BACKFILL UNDER NON-PAVEMENT OR STRUCTURAL AREAS SHALL BE CASE 1 EXCAVATED MATERIALS FREE FROM ORGANICS, CLODS, FROZEN, OR DELETERIOUS MATERIALS.

BEDDING, HAUNCHING, INITIAL BACKFILL, AND FINAL BACKFILL SHALL BE EXTENDED A DISTANCE OF THREE (3) FEET BEYOND THE EDGE OF EXISTING STRUCTURAL AREAS (I.E. PAVEMENT, CURB & GUTTER, SIDEWALK, STRUCTURAL AREAS, ETC.)

UNPAVED AREAS

PAVED AREAS

NOTES:

1. CLEANOUT STACK SHALL EXTEND A MINIMUM OF 18" ABOVE GRADE FOR NEW CONSTRUCTION UNTIL SERVICE IS CONNECTED AND/OR FINISH GRADE IS ESTABLISHED. CLEANOUTS SHALL BE INSTALLED AT GRADE FOR EXISTING SERVICES UNLESS OTHERWISE DIRECTED.
2. THE FULL LENGTH OF THE SERVICE TRENCH SHALL BE COMPACTED IN 6" LAYERS WITH MECHANICAL TAMP.
3. WYE, LATERAL, & C.O. ASSEMBLY MUST BE BEDDED IN COMPACTED GRANULAR BACKFILL. (SEE SANITARY SEWER LINE TRENCH DETAIL FOR GRAVITY MAINS.)

RECESSED HEX HEAD CLEANOUT WITH PLASTIC MARKED COVER

18" MINIMUM SEE NOTE 1

FINISHED GRADE

4" or 6" SCH 40 PVC

P.V.C. CLEAN-OUT

CAP END OF MAIN SEWER WITH FITTING TO WITHSTAND AIR TESTING

ROADWAY PATCH DETAIL PER PLANS

WHEN SEWER CLEAN-OUT IS IN PAVEMENT, INSTALL HEAVY DUTY DUCTILE IRON FRAME AND LID NEENAH R-1976 OR EQUIVALENT

P.V.C. SLEEVE USED AS CONCRETE FORM

1/4" PER FOOT TO SEWER MAIN

P.V.C. ASTM D3034-DR-35 OR DR-26 AS SPECIFIED

SCREW-IN CAP MUST BE 2" BELOW GRADE

30" x 30" x 6" P.C.C. PAD (EXTEND TO SURFACE IN PAVED AREA)

SEE SANITARY SEWER BEDDING DETAIL

SANITARY SEWER PIPE SHALL CONFORM TO ASTM D-3034-DR-35 OR DR-26 AS SPECIFIED WITH ELASTOMERIC JOINTS IN CONFORMANCE WITH ASTM D-3212.

PROTECTIVE PAPER WRAPPER  
(TO BE REMOVED IMMEDIATELY  
PRIOR TO JOINING)

PREPARED JOINT SURFACE

PREFORMED RAM-NEK JOINT  
SEALING COMPOUND  
(OR APPROVED EQUAL) PLACED  
BEFORE INSTALLATION,  
APPLY TO SURFACE

RAM-NEK "SQUEEZE  
OUT" PERMITTING  
VISUAL INSPECTION

MANHOLE WALL

EPOXY MORTAR AREA INSIDE OF BOOT, FLUSH WITH INSIDE OF MANHOLE

MANHOLE INVERT

PIPE

Z-LOC FLEXIBLE WATER TIGHT CONNECTOR (OR APPROVED EQUAL)

CAST IRON LID TO BE A SOLID SELF SEALING LID WITH CONCEALED WATERPROOF PICKHOLE AND A TYPE 'C' DIAMOND SURFACE WITH THE WORD "SANITARY" CAST IN THE LID FACE

NEENAH R-1772 OR EQUAL HEAVY DUTY FRAME & SOLID LID (NOTE 2)

CO-POLYMER POLYETHYLENE COATED STEEL STEPS @ 16" O.C. (TYPICAL)

BELL & SPIGOT REINFORCEMENT (TYPICAL)

4'-0" DIAMETER (MINIMUM)  
6'-0" DIAMETER (MINIMUM)  
NOTE 2

STANDARD PRE-CAST CONCRETE MANHOLE ASTM C-478

PRE-CAST CONCRETE REINFORCED ADJUSTING RINGS, 12" MAXIMUM ALLOWABLE HEIGHT

PRE-CAST REINFORCED CONCRETE ECCENTRIC CONE SECTION CONFORMING TO ASTM C-478 (TYPICAL) WITH DENSIFIED SILICA FUME ADMIXTURE CONFORMING TO ASTM C 1240

1" WIDE BITUMASTIC GASKET AS MANUFACTURED BY "RAM-NEK" OR EQUAL (TYPICAL) FOR ALL SECTIONS

3" WIDE BITUMASTIC GASKET AS MANUFACTURED BY "RAM-NEK" OR EQUAL (TYPICAL) FOR ALL SECTIONS

TONGUE & GROOVE JOINT (TYPICAL)

1" WIDE BITUMASTIC GASKET AS MANUFACTURED BY "RAM-NEK" OR EQUAL (TYPICAL) FOR ALL SECTIONS

3" WIDE BITUMASTIC GASKET AS MANUFACTURED BY "RAM-NEK" OR EQUAL (TYPICAL) FOR ALL SECTIONS

PRE-CAST REINFORCED CONCRETE MONOLITHIC BASE CONFORMING TO ASTM C-478 WITH DENSIFIED SILICA FUME ADMIXTURE CONFORMING TO ASTM C 1240

A-LOK GASKET OR EQUIVALENT CONFORMING TO ASTM C-923 (TYPICAL FOR ALL PIPE PENETRATIONS)

8" OR AS REQUIRED TO PREVENT BUOYANCY

8" CA-6 COMPACTED AGGREGATE BASE

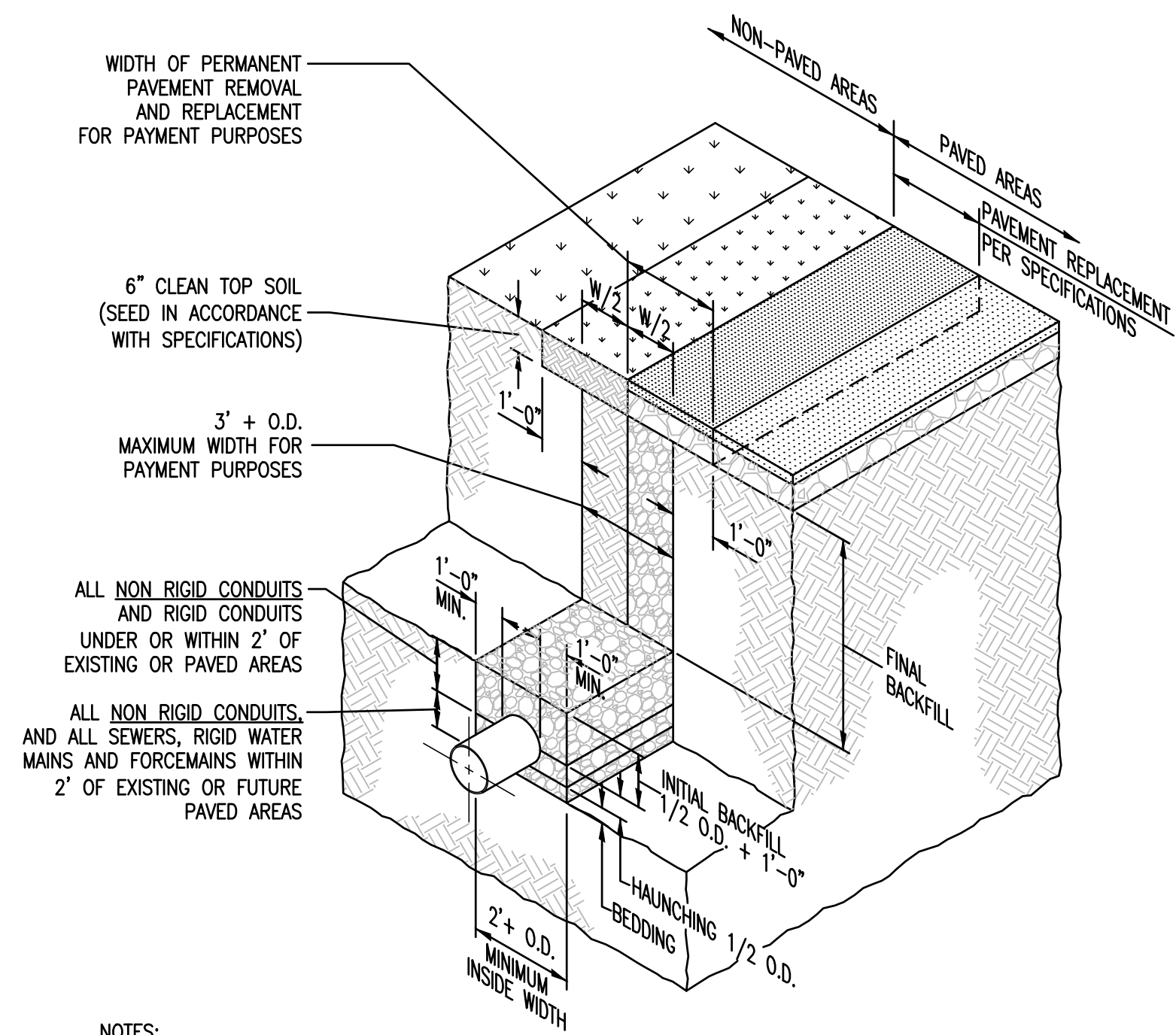
5" MINIMUM

INVERT IN

INVERT OUT



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NOTES:

1. CONTRACTOR SHALL EXCAVATE TRENCH, PROVIDE BEDDING, AND TRENCH BACKFILL IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AND O.S.H.A. REQUIREMENTS.
2. BEDDING, HAUNCHING, INITIAL, AND FINAL BACKFILL.

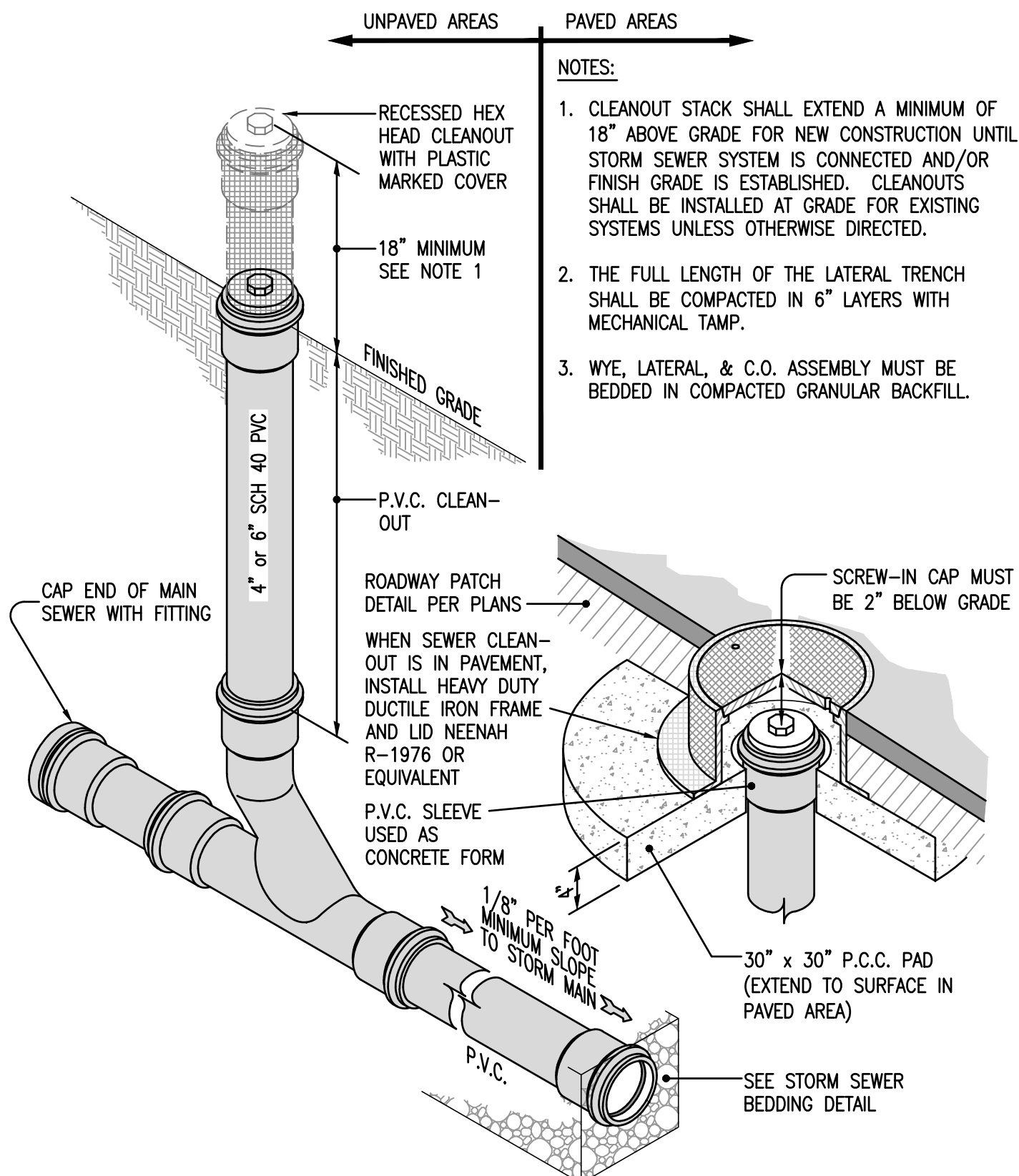
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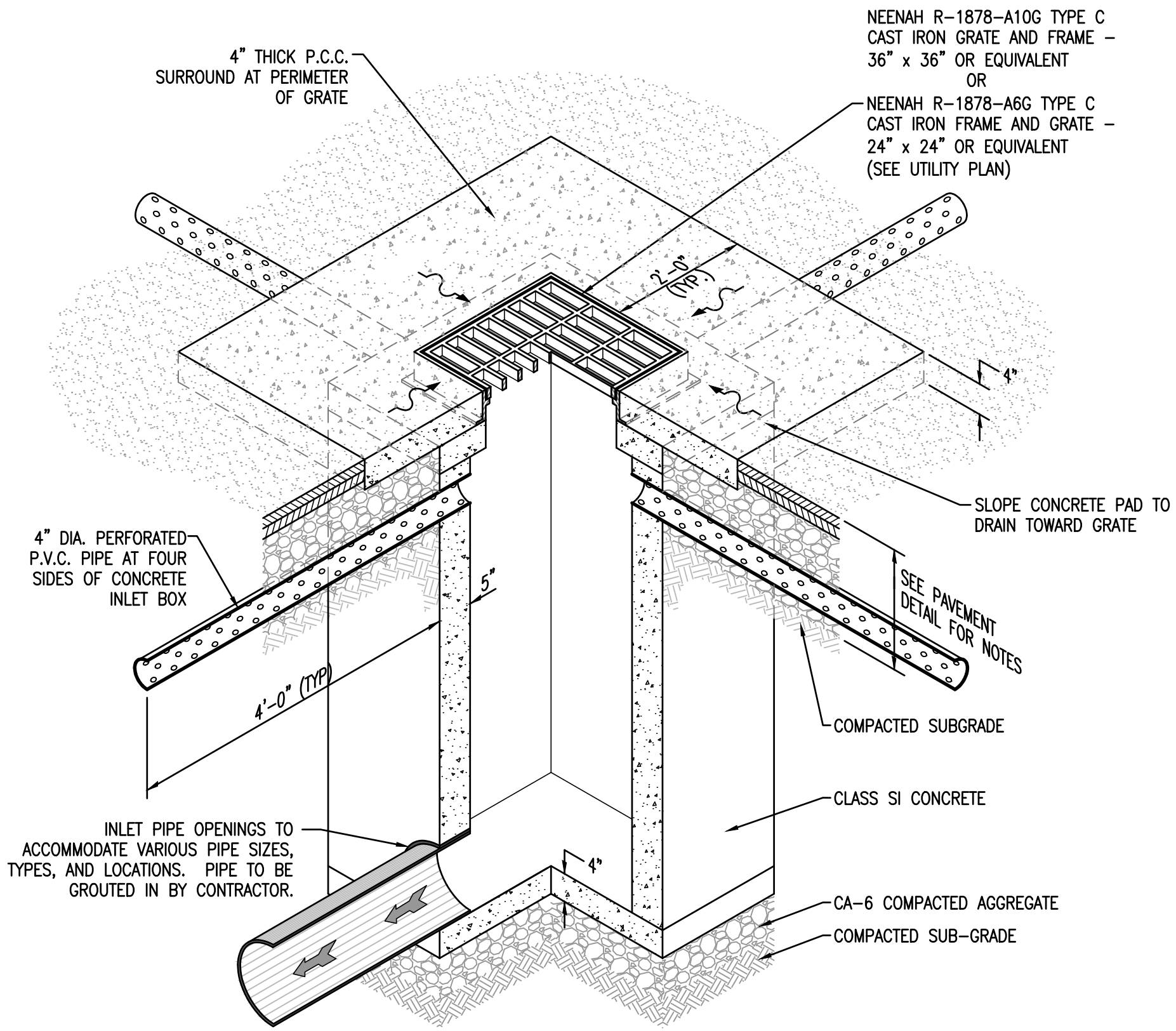
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STORM SEWER BEDDING AND BACKFILL



STORM SEWER PIPE SHALL CONFORM TO AASHTO M 278 OR ASTM F 679 EXCEPT THAT IT SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454-C OR 12364-C, AS DEFINED IN ASTM D 1784.

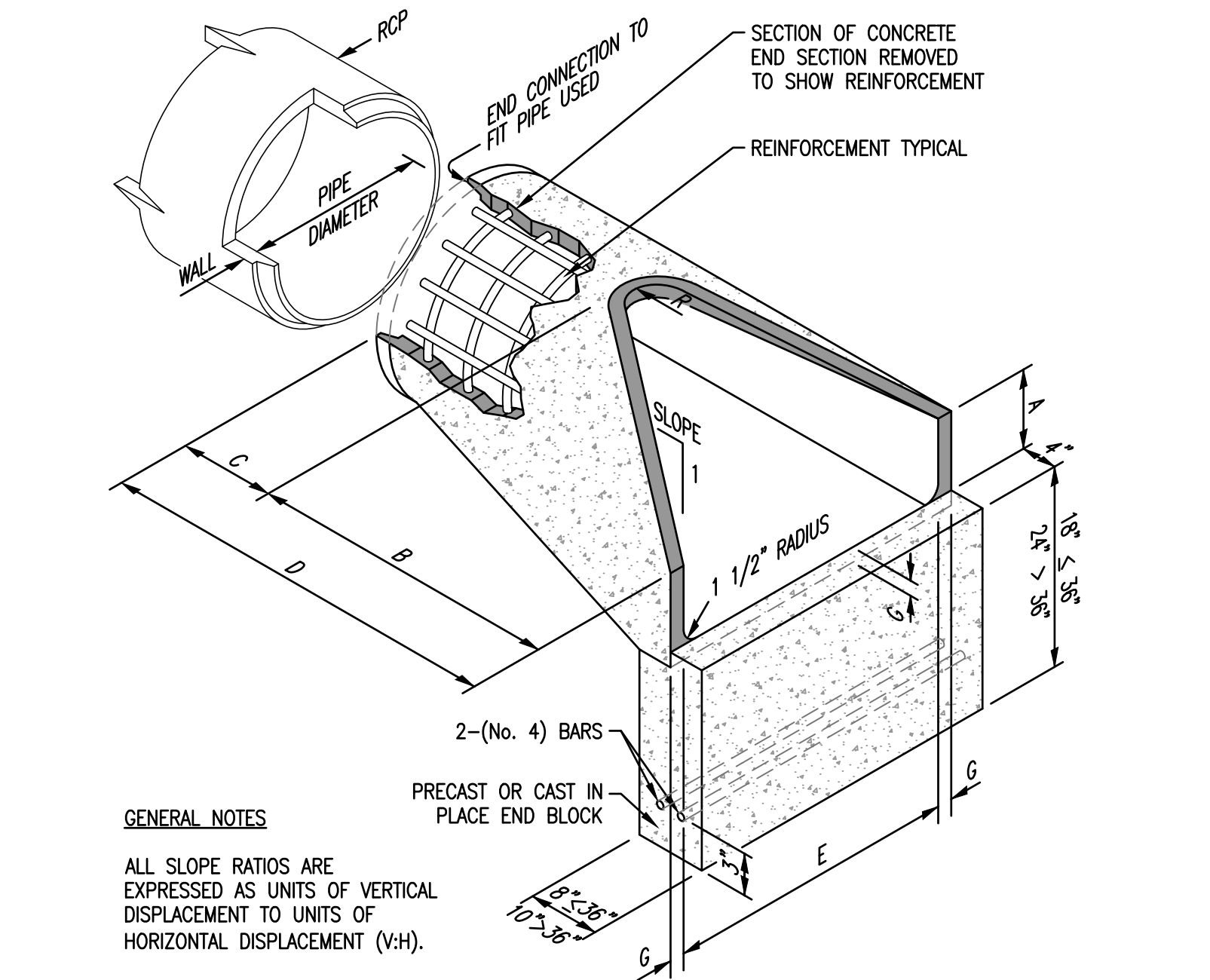
STORM SEWER CLEANOUT



NOTES:

1. PRECAST INLET BOXES SHALL CONFORM TO ASTM C-478
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL STORM SEWER STRUCTURES.
3. ALL INLETS IN PAVEMENT AREAS SHALL BE CAPABLE OF WITHSTANDING H-20 LOADING.
4. MINIMUM INSIDE DIMENSION OF PAVEMENT INLETS SHALL BE 3' X 3'.
5. ALL PAVEMENT INLETS SHALL HAVE A MINIMUM OF 6" BETWEEN OUTSIDE OF PIPE AND ADJACENT WALL OF STRUCTURE.
6. STORM SEWER PIPE TO BE SEALED WITH NON-SHRINK GROUT AT PIPE/PAVEMENT INLET INTERFACE.
7. FILLETS SHALL BE CONSTRUCTED AT ALL STORM SEWER INVERTS TO ENSURE PROPER FLOW.

PAVEMENT STORM SEWER INLET



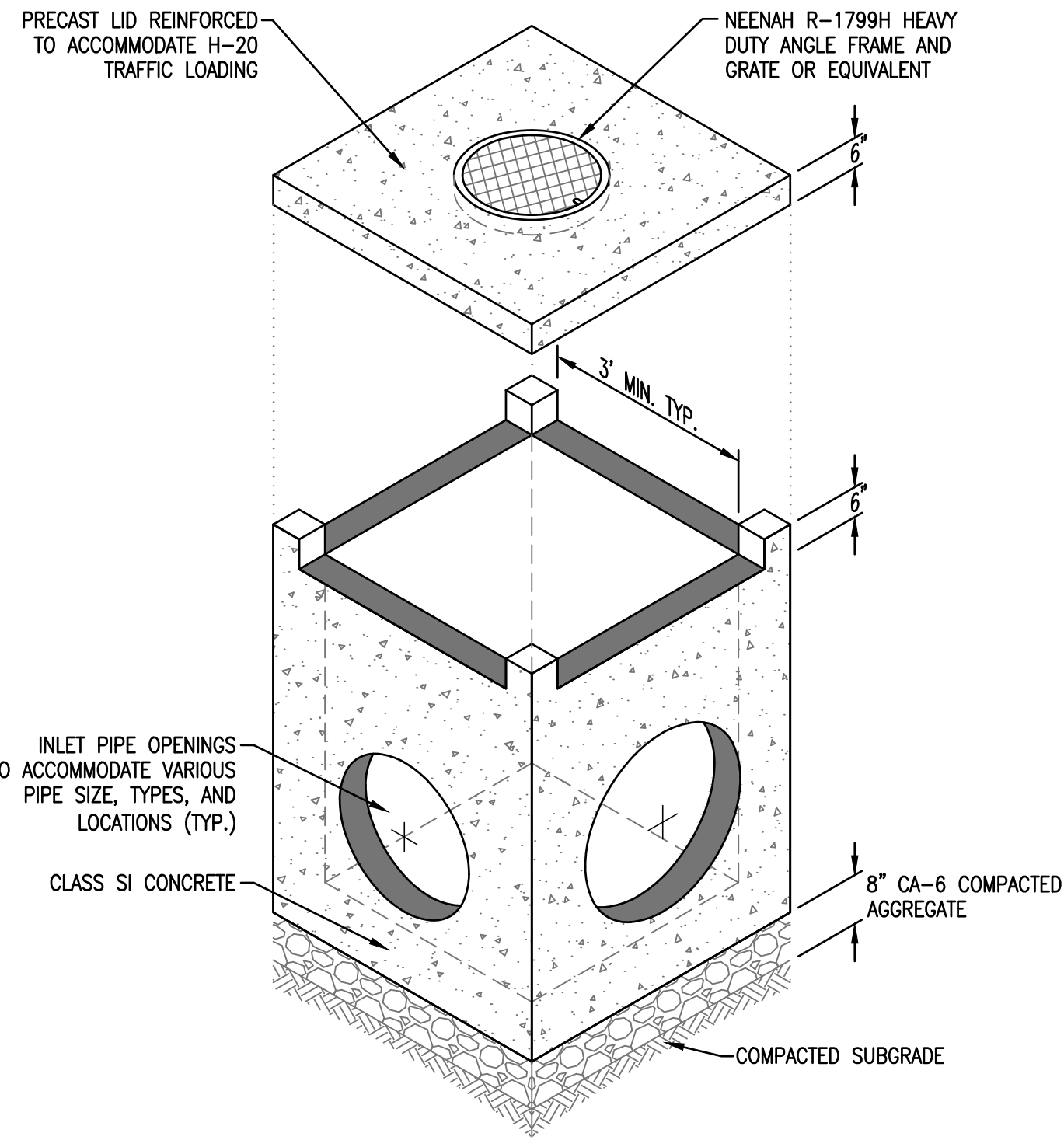
GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

PIPE DIA.	APPROX. QTY. (lbs)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
15"	740	2 1/4"	6"	27"	3'-10"	6'-1"	30"	2 1/4"	11"	1:2.4
30"	2190	3 1/2"	12"	4'-6"	19 3/4"	6'-1 3/4"	5'-0"	3 1/2"	15"	1:2.5

\* Radius as furnished by manufacturer

PRECAST REINFORCED FLARED END SECTION



NOTES:

1. PRECAST OPEN THROAT INLETS SHALL CONFORM TO ASTM C-478
2. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL STORM SEWER STRUCTURES
3. MINIMUM INSIDE DIMENSION OF OPEN THROAT INLETS SHALL BE 3' X 3'.
4. ALL INLETS SHALL HAVE A MINIMUM OF 6" BETWEEN OUTSIDE OF PIPE AND ADJACENT WALL OF STRUCTURE.
5. STORM SEWER PIPE TO BE SEALED WITH NON-SHRINK GROUT AT PIPE/INLET INTERFACE.

OPEN THROAT INLET (4 - SIDES)



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TENNESSEE	NASHVILLE CHATTANOOGA

THOUVENOT, WADE  
& MOERCHEN, INC.

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4940 OLD COLLINSVILLE RD.  
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62226-2025  
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PROF. LICENSE	NUMBER
IL. PROF. DESIGN FIRM	184-001220
IL. PROF. ENGR. CORP.	62-035370
IL. PROF. STR. ENGR. CORP.	81-005202
IL. PROF. LAND SURV. CORP.	048-000029
KS. PROF. ENGR. FACILITY	E-3256
MO. PROF. ENGR. CORP.	001528
MO. LAND SURVEYING CORP.	000346
TN. PROF. ENGR. FIRM	8974

SEAL

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LICENSE EXPIRATION:

ISSUED FOR REVIEW  
AUGUST 14, 2023

REV.	DATE	DESCRIPTION
△	8-24-23	VILLAGE OF GLEN CARBON REVIEW
△		
△		
△		
△		

DRAWN BY: DAB  
DESIGNED BY: DLL  
CHECKED BY: DLL  
APPROVED BY: MJM  
PROJECT NO: D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

STORM SEWER  
DETAILS

C6.2

PRELIMINARY





ILLINOIS	SWANSEA COLUMBIA GLEN CARBON PEORIA
MISSOURI	ST. CHARLES ST. LOUIS COLUMBIA
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PROF. LICENSE	NUMBER
IL. PROF. DESIGN FIRM	184-00122
IL. PROF. ENGR. CORP.	62-00537
IL. PROF. STR. ENGR. CORP.	81-00520
IL. PROF. LAND SURV. CORP.	048-00002
KS. PROF. ENGR. FACILITY	E-328
MO. PROF. ENGR. CORP.	00152
MO. LAND SURVEYING CORP.	00034
TN. PROF. ENGR. FIRM	897

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AUGUST 14, 2023

REV.	DATE	DESCRIPTION
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△		

DRAWN BY:	DA
DESIGNED BY:	DL
CHECKED BY:	DL
APPROVED BY:	MJL
PROJECT NO:	D10150464

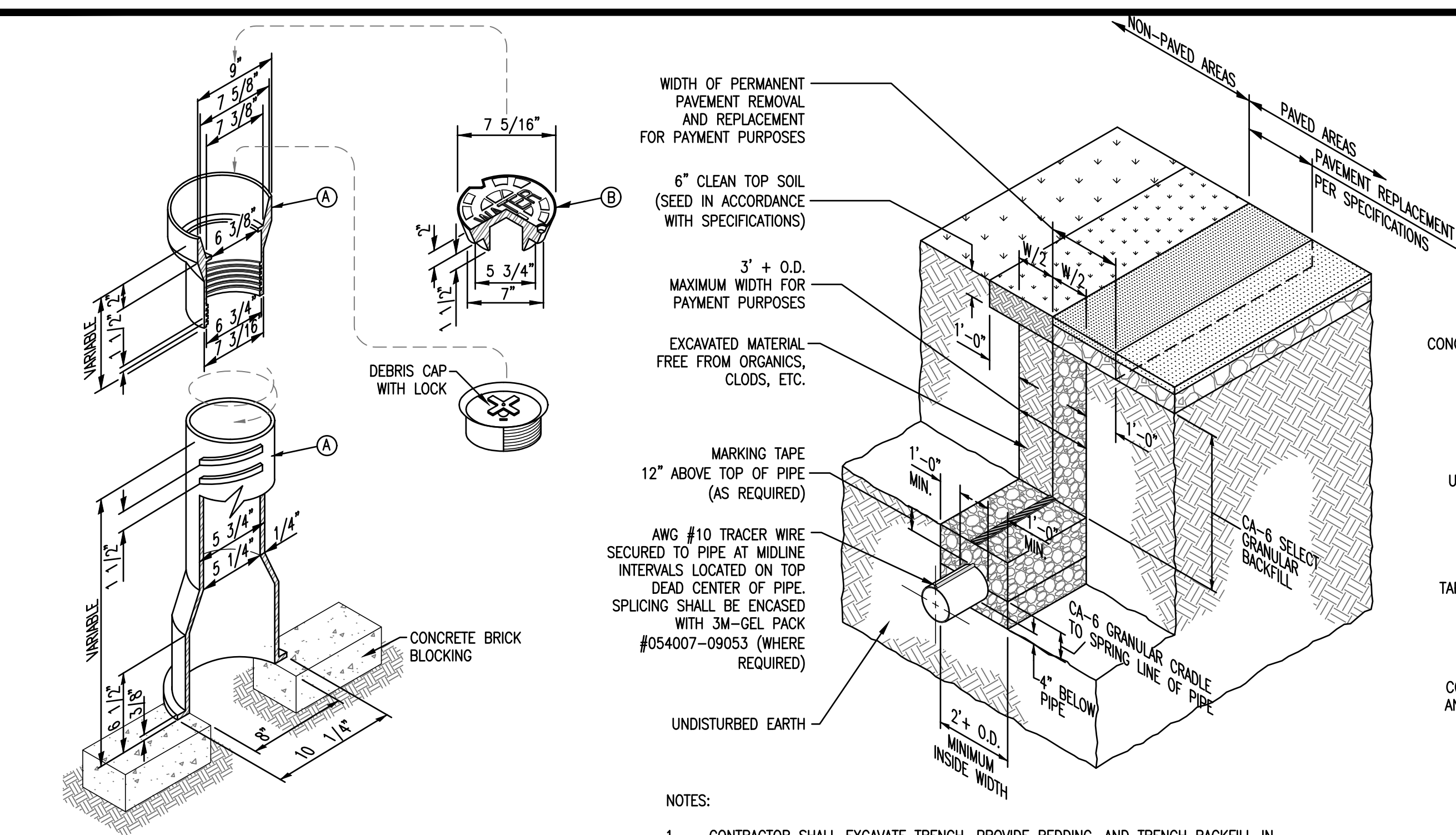
PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

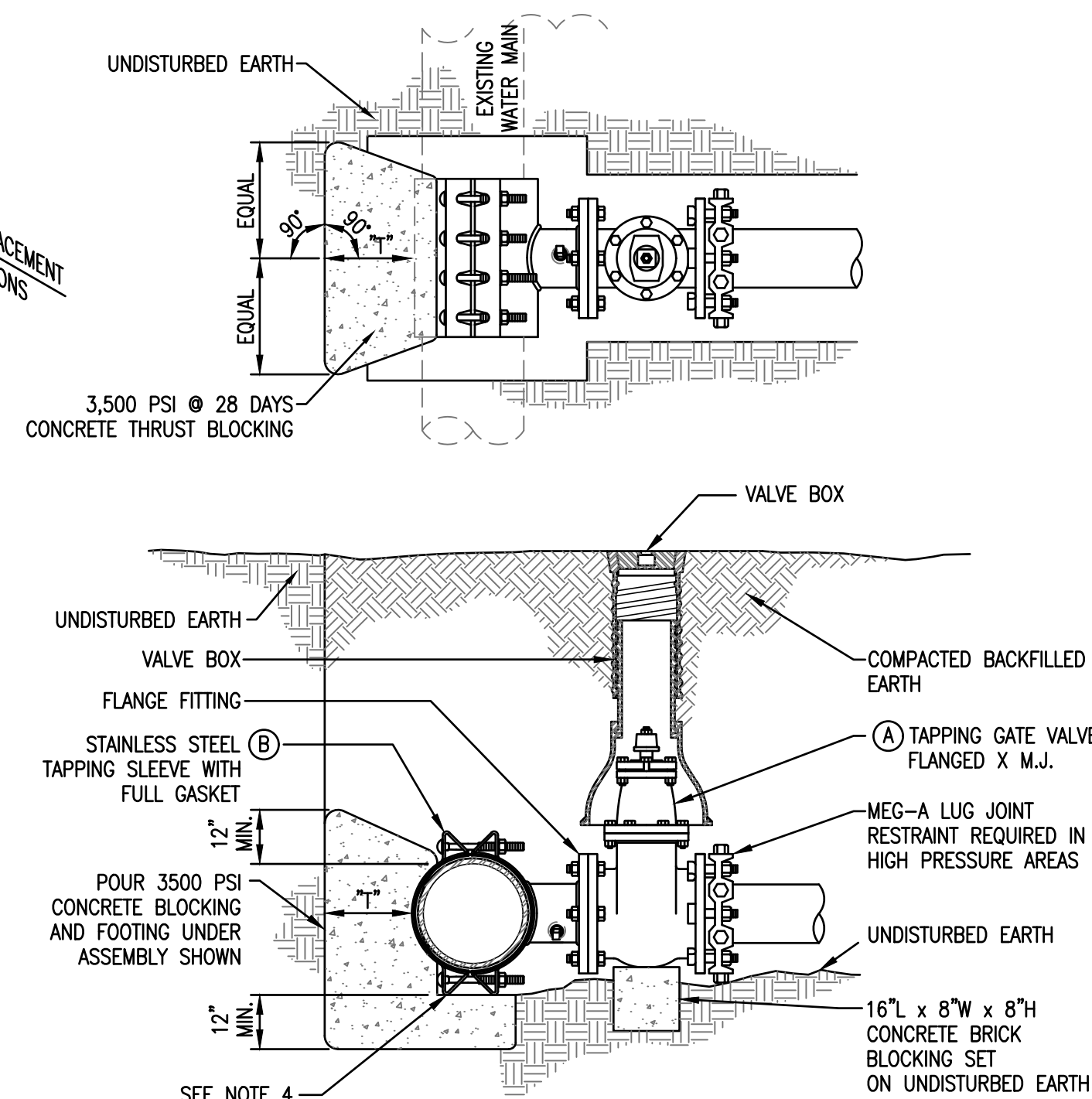
## WATER MAIN DETAILS

### C6.3



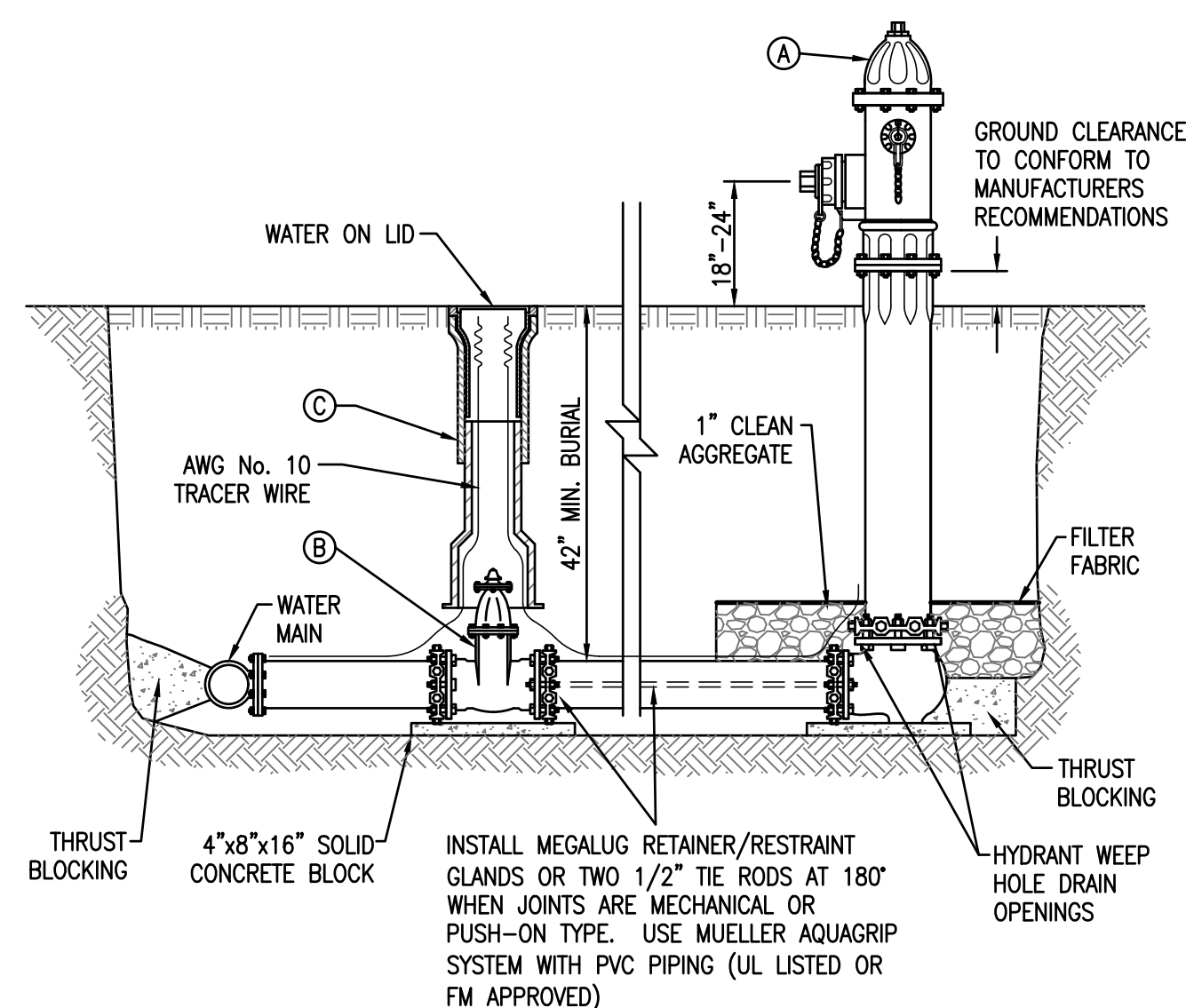
PART		MANUFACTURER MODEL / CAT. NO.
(A)	VALVE BOX	EAST JORDAN IRON WORKS - 8550 SERIES, SCREW TYPE BINGHAM & TAYLOR - 2 PIECE SCREW TYPE
(B)	VALVE BOX DROP LID	EAST JORDAN IRON WORKS - 6800 BINGHAM & TAYLOR LID

### VALVE BOX (4" - 12" VALVES)



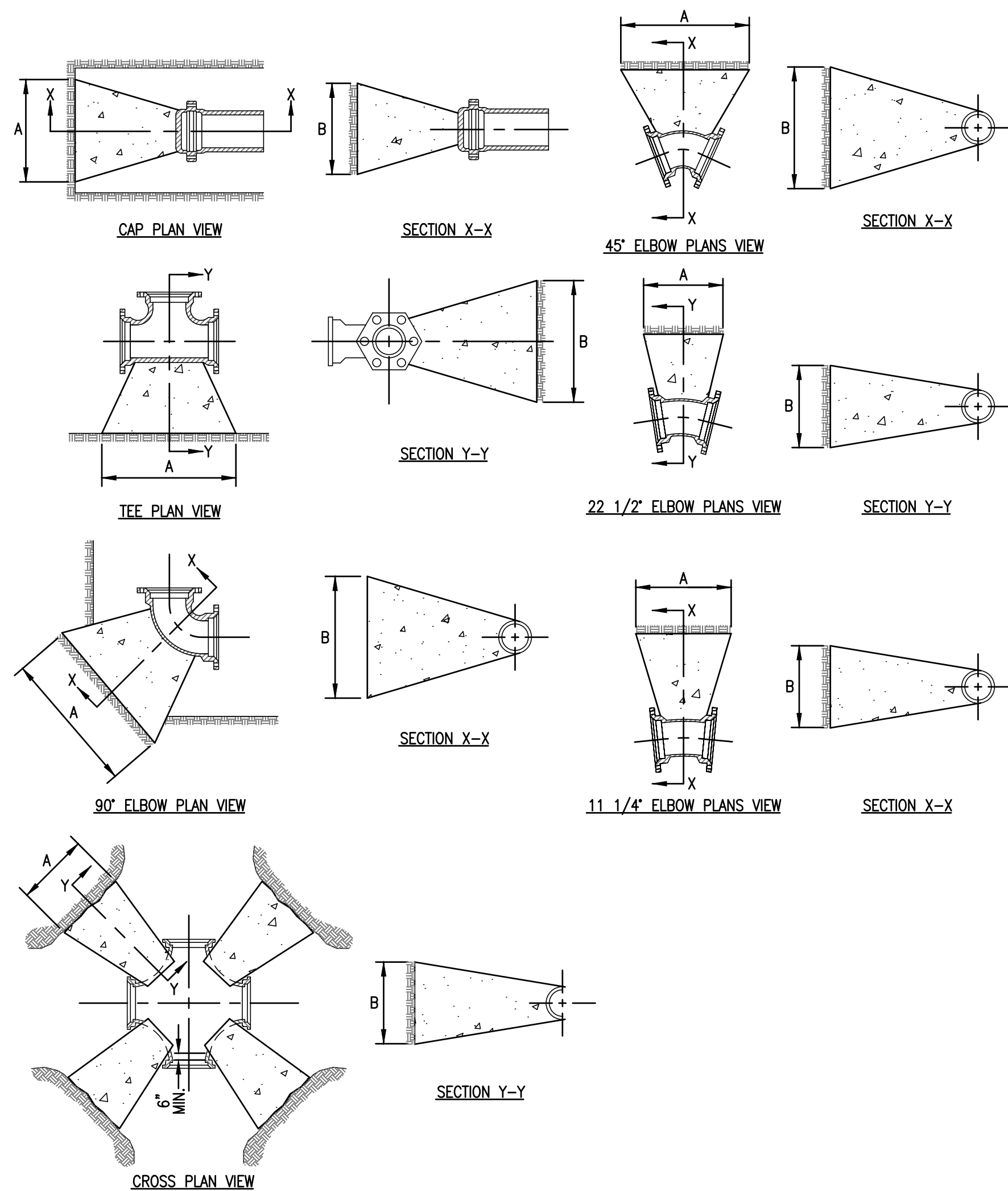
REF	PART	DESCRIPTION
(A)	TAPPING GATE VALVE	MUELLER T-2380, OR CLOW RESILIENT WEDGE TAPPING VALVE WITH FLANGED/M.J.I. APPURTENANCE END FITTING OR EQUIVALENT. VALVE SHALL BE RATED AT 250 PSI.
(B)	TAPPING SLEEVE (STAINLESS STEEL)	TAPPING SLEEVE SHALL BE TYPE 304 STAINLESS STEEL WITH CARBON STEEL FLANGE, ROMAC MODEL SST III, FORD MODEL FITS WITH CARBON STEEL FLANGE, OR APPROVED EQUIVALENT. SLEEVE SHALL BE RATED AT 250 PSI AND SHALL BE FITTED WITH A TEST PLUG.

### TAPPING SLEEVE AND TAPPING VALVE (IF NECESSARY)



PART		MANUFACTURER MODEL / CAT. NO.
(A)	AWWA C-502-05 FIRE HYDRANT	MUELLER CENTURION CLOW
(B)	AWWA C-509-01 MECHANICAL JOINT RESILIENT SEAT GATE VALVE	MUELLER CLOW
(C)	VALVE BOX	FORD BINGHAM & TAYLOR

### FIRE HYDRANT WITH RESILIENT SEAT GATE VALVE



REQUIRED BEARING AREA ON UNDISTURBED SOIL AND TYPICAL DIMENSIONS															
PIPE SIZE	CROSSES/90° BENDS			45° BENDS			11 1/4" BENDS		22 1/2" BENDS		TEES AND PLUGS				
	AREA SQ. FT.	"A"	"B"	AREA SQ. FT.	"A"	"B"	AREA SQ. FT.	"A"	"B"	AREA SQ. FT.	"A"	"B"	AREA SQ. FT.	"A"	"B"
6	5	30"	24"	2.7	22"	18"	0.7	10"	10"	1.4	17"	12"	3.5	28"	18"
8	8.9	43"	30"	4.8	29"	24"	1.2	15"	12"	2.5	22"	16"	6.3	38"	24"
10	13.9	56"	36"	7.5	36"	30"	1.9	23"	12"	3.8	31"	18"	10.0	48"	30"
12	20	69"	42"	10.8	42"	36"	2.8	26"	15"	5.5	33"	24"	14.9	57"	36"
14	27.2	82"	48"	14.7	50"	42"	3.8	30"	18"	7.5	45"	24"	19.4	67"	42"
16	35.5	95"	54"	19.2	58"	48"	4.9	30"	24"	9.8	47"	30"	25.12	75"	60"
20	55.5	133"	60"	30.1	80"	54"	7.7	37"	30"	15.3	61"	36"	39.26	105"	68"

SURFACE AREA OF BEARING SOIL PROVIDED IS FOR 200 PSI MAXIMUM LINE PRESSURE INCLUDING SURGE PRESSURE AND 2000 POUNDS PER SQUARE FOOT SOIL BEARING. LOCATIONS WHERE PRESSURE IS HIGHER OR SOIL STRENGTH IS POTENTIALLY LOWER CONSULT ENGINEER FOR RECOMMENDED ADJUSTMENTS. A FACTOR OF SAFETY OF 1.25 HAS BEEN APPLIED TO THE COMPUTED DIMENSIONS.

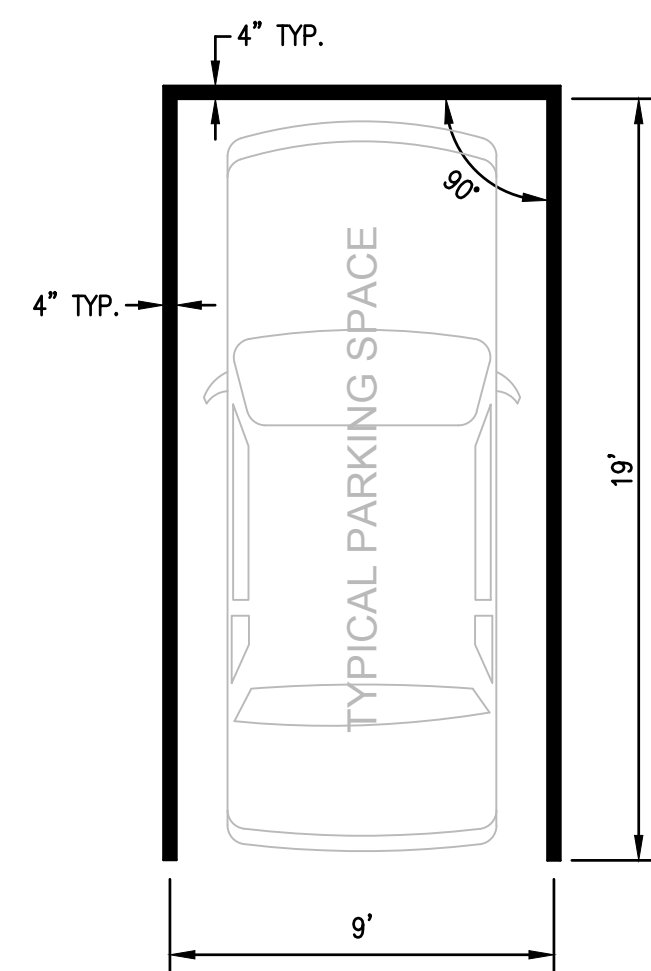
NOTES:

1. COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 42" MINIMUM, 72" MAXIMUM ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
2. THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
3. NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES,.
4. THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
5. BASED ON 150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER AND 2000 PSF SOIL BEARING.
6. POLYETHYLENE ENCASEMENT SHALL BE PROVIDED ON ALL D.I. PIPE AND FITTINGS.
7. PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
8. ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
9. ALL ANCHOR BOLTS SHALL BE GALVANIZED STEEL, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH ASPHALT CEMENT AFTER CONCRETE HAS SET.
10. ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
11. THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
12. PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN. 3500 PSI CLASS SI CONCRETE.
13. FOR UNSTABLE SOIL CONDITIONS, CHECK WITH ENGINEER FOR THRUST BLOCK DIMENSIONS.
14. FOR MAIN SIZES GREATER THAN 20", SEE ENGINEER FOR THRUST BLOCK DIMENSIONS.

## THRUST BLOCKS FOR HORIZONTAL BENDS, TEES, AND CAPS

# PRELIMINARY

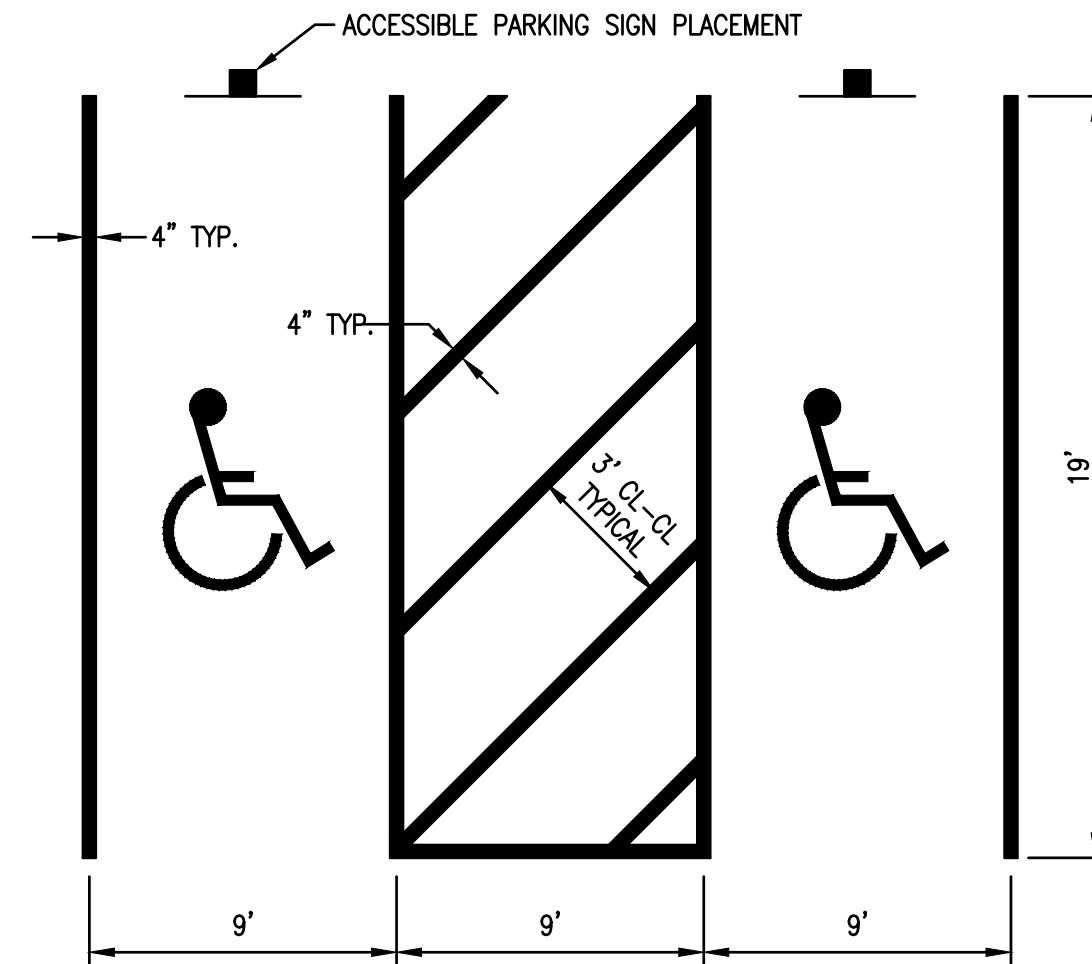




NOTE:

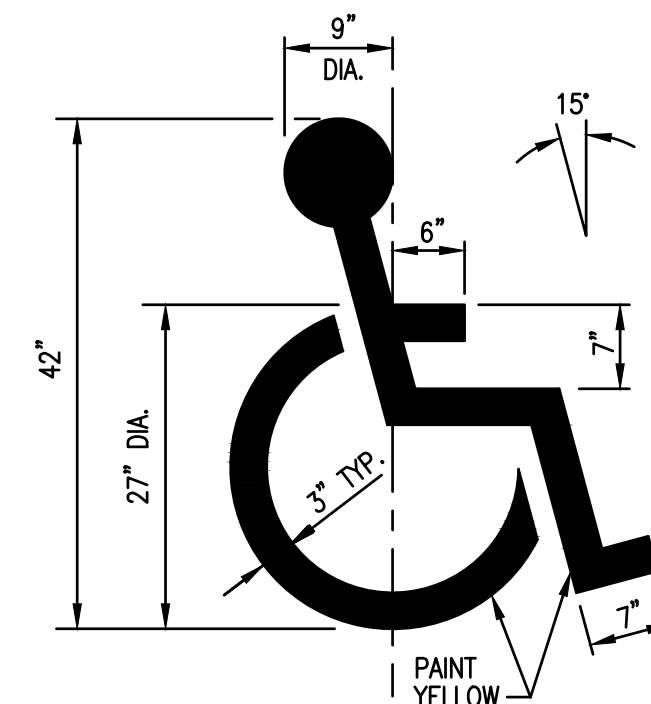
PAVEMENT MARKING TO BE PAINTED UTILIZING I-DOT  
WHITE PAINT APPLIED PER I-DOT STANDARD  
SPECIFICATIONS.

ALL SURFACES TO BE PAINTED SHALL BE CLEAN, DRY,  
AND AIR BLASTED PRIOR TO PAINTING.



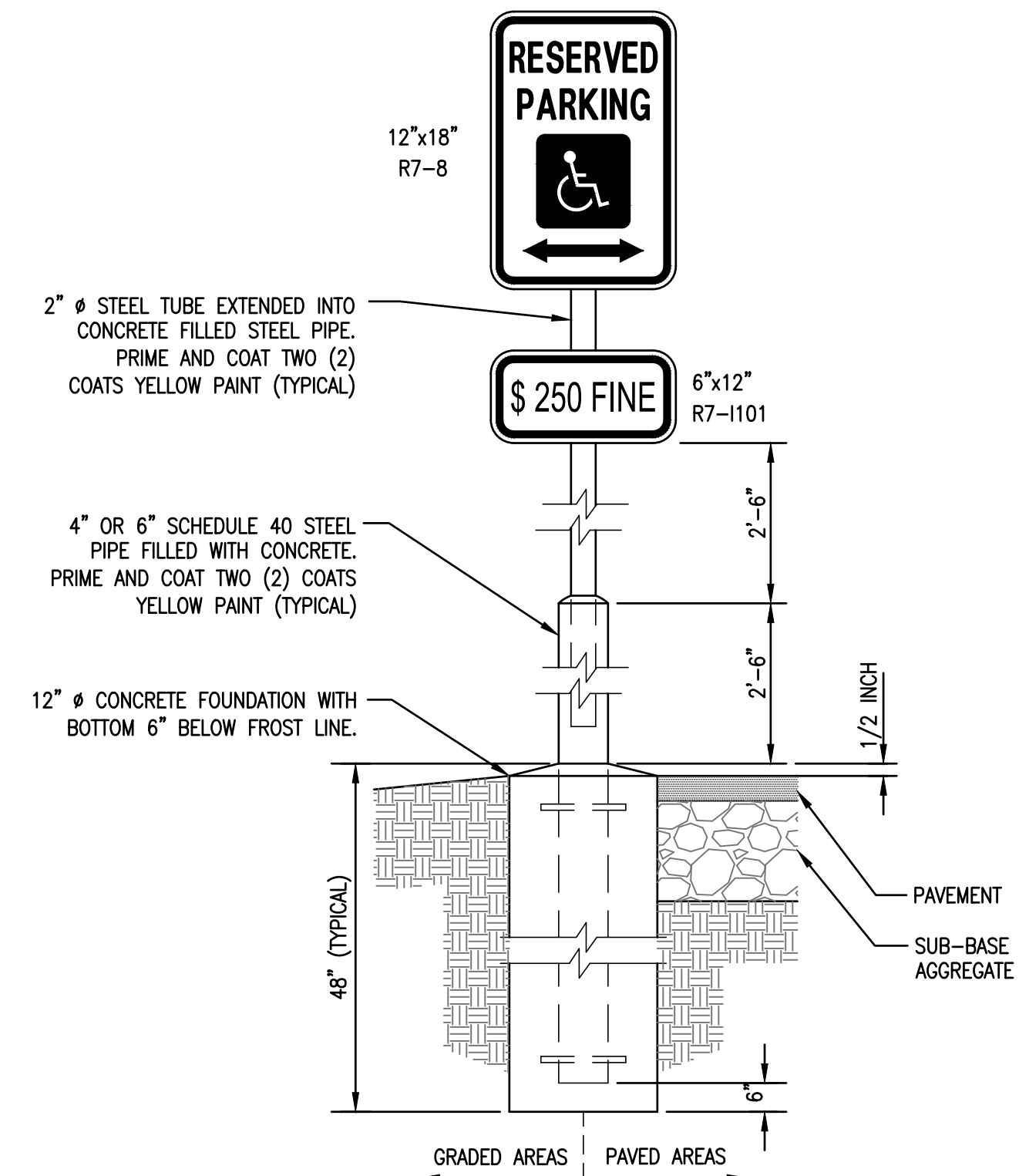
NOTES:

1. ACCESSIBLE PARKING SPACES SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT.
2. THE SURFACE PLANE OF ACCESSIBLE PARKING SPACES SHALL HAVE SLOPES LESS THAN 2.0% IN ALL DIRECTIONS.
3. ALL SURFACES TO BE PAINTED SHALL BE CLEANED AND AIR BLASTED PRIOR TO BEING PAINTED.
4. ACCESSIBLE PARKING SPACE PAVEMENT MARKINGS TO BE PAINTED YELLOW PER THE IDOT STANDARD SPECIFICATIONS.



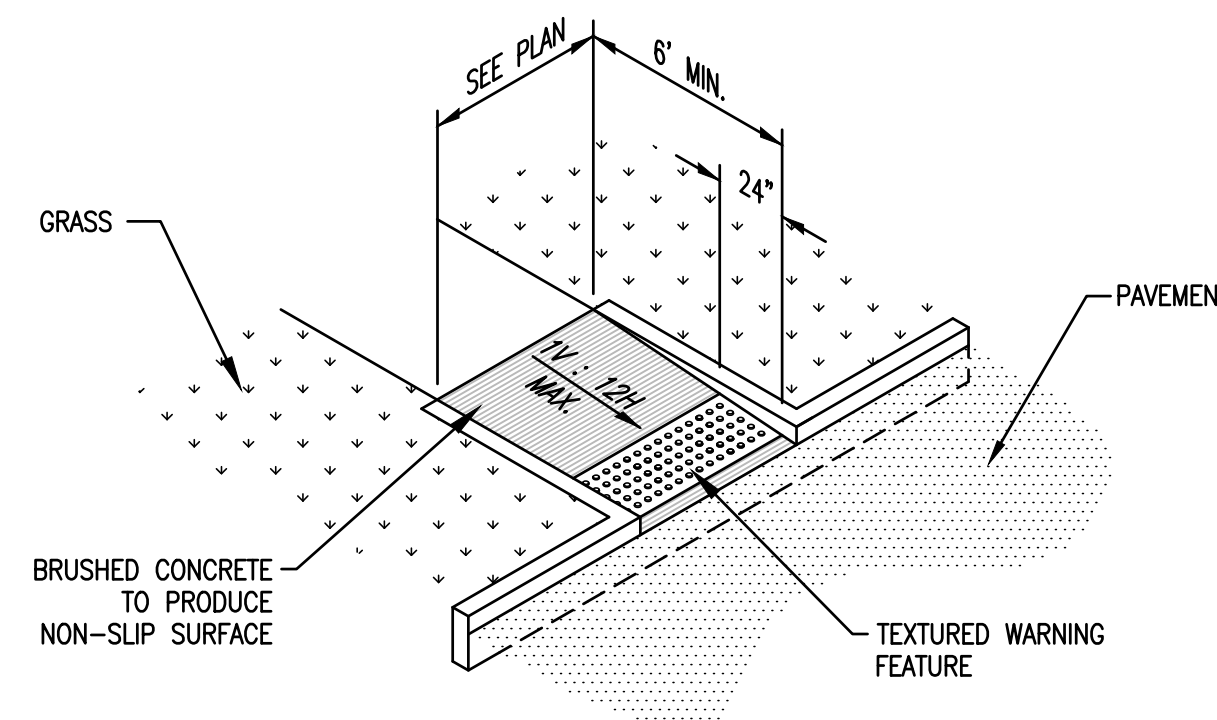
NOTES:

1. ACCESSIBLE PARKING SYMBOL TO BE PAINTED WITH I-DOT YELLOW PAINT PER I-DOT STANDARD SPECIFICATIONS.
2. PAINTED ACCESSIBLE SYMBOL TO BE PLACED IN LOCATIONS AS DETAILED ON THE SITE PLAN.



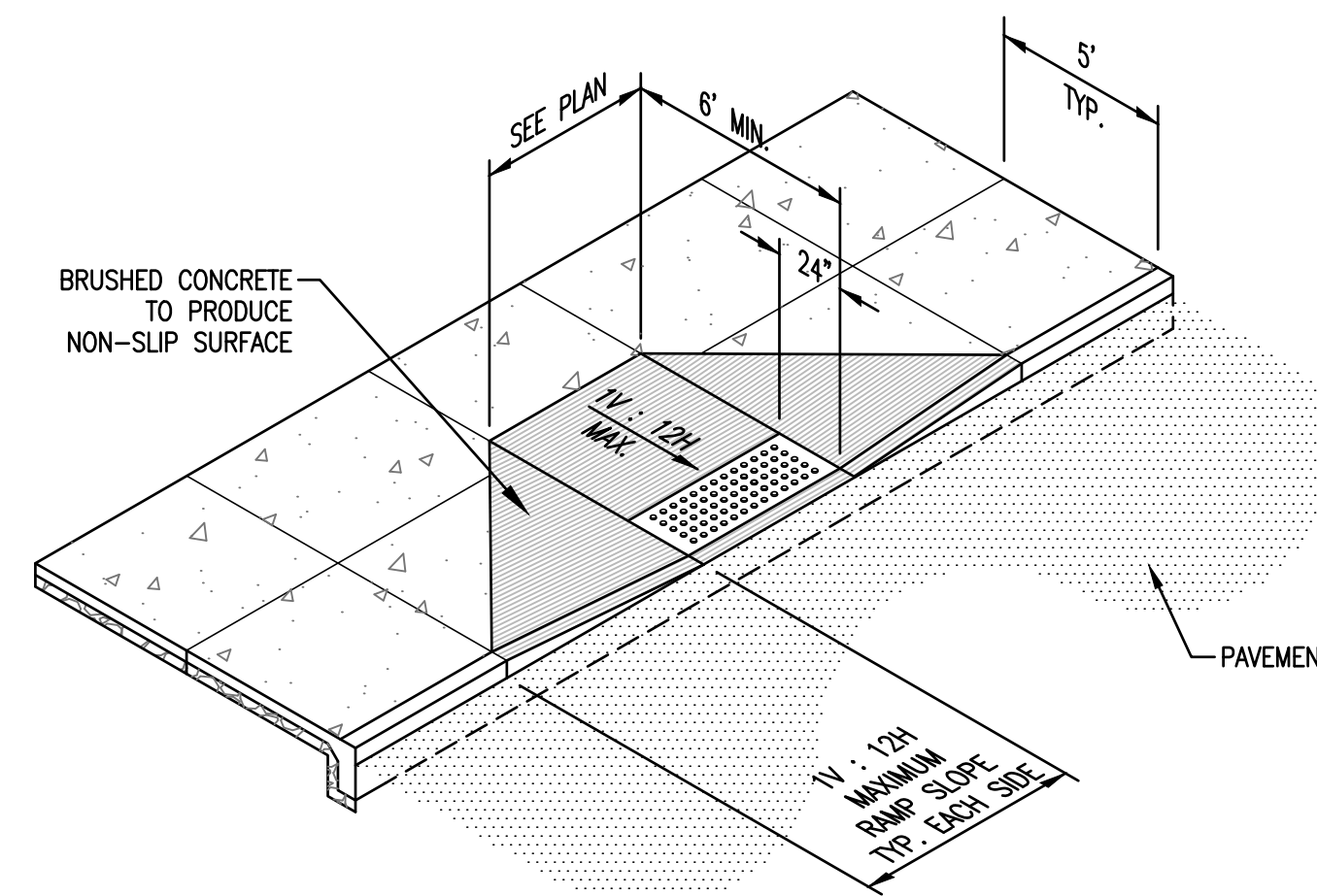
**NOTE:**

1. ACCESSIBLE SIGNS AND POSTS TO CONFORM WITH U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND THE AMERICANS WITH DISABILITIES ACT.



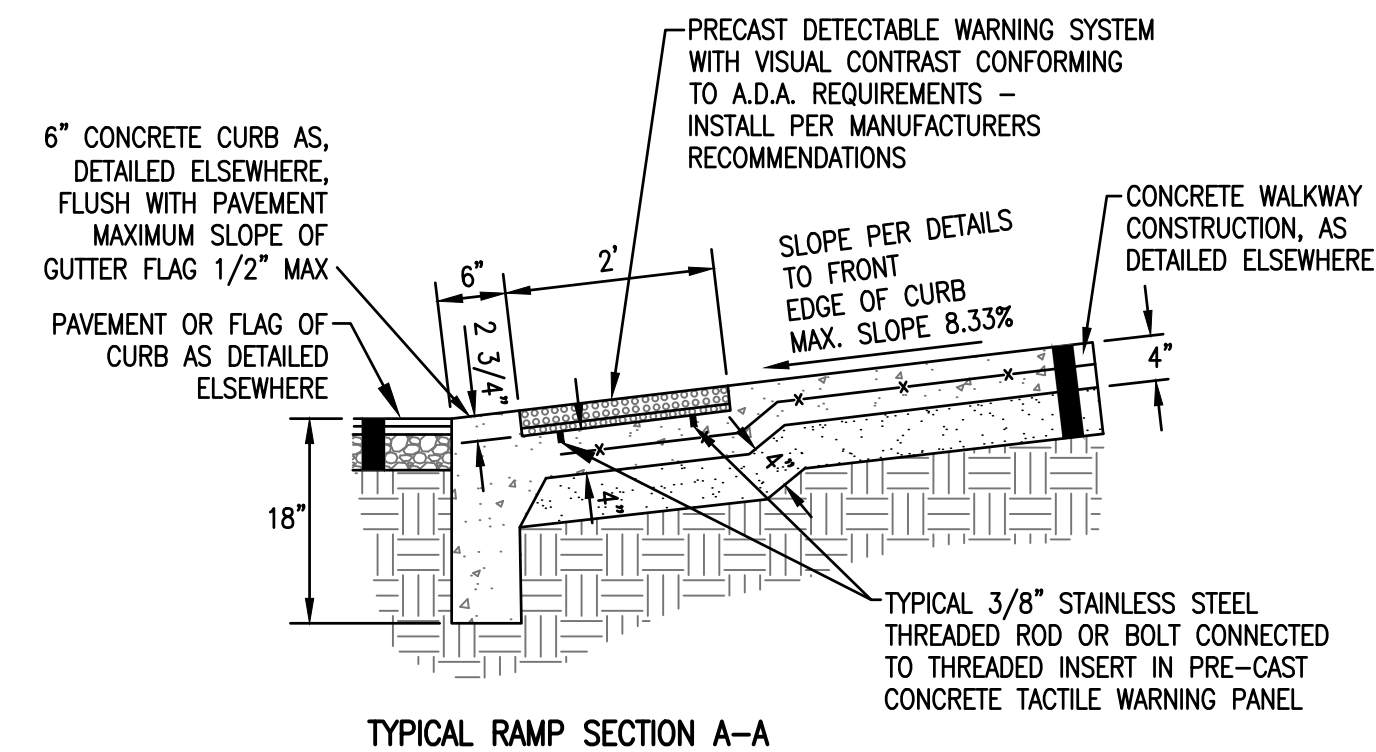
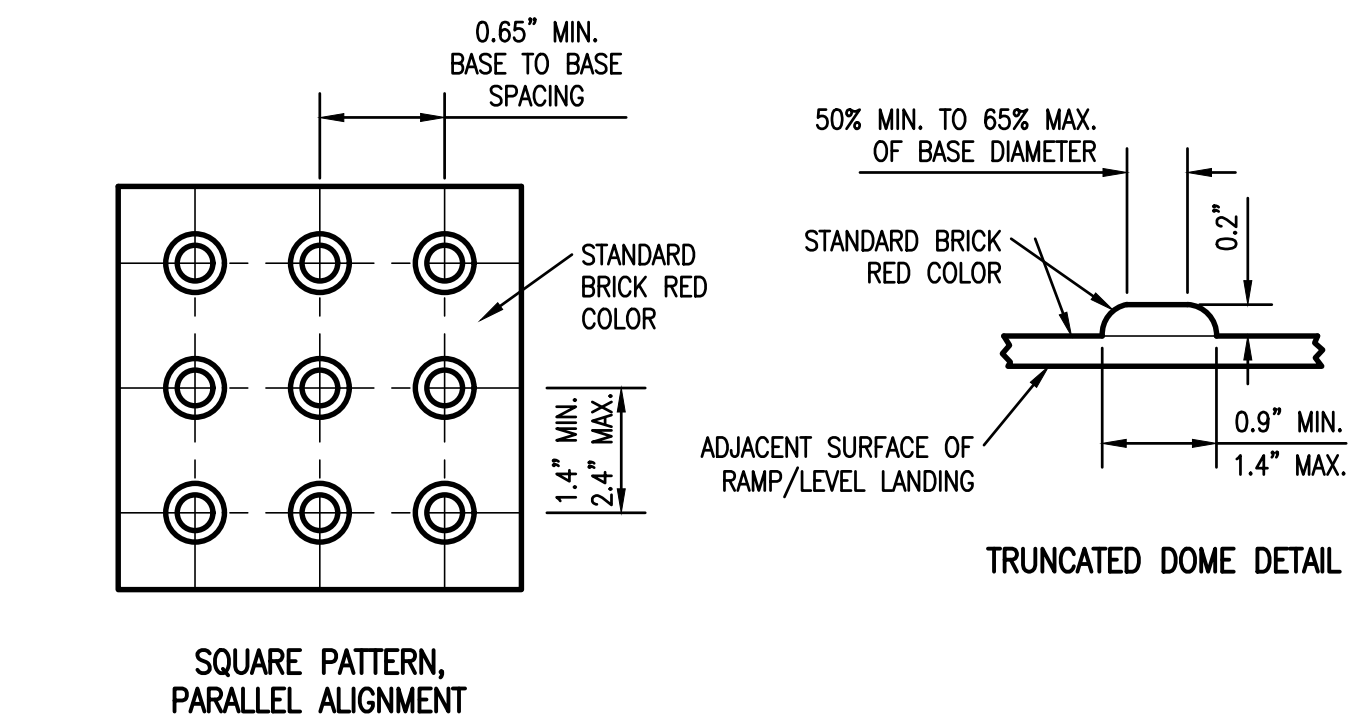
NOTES:

1. DETECTABLE WARNINGS SHALL BE INSTALLED AT CURB RAMPS, MEDIANS, AND PEDESTRIAN REFUGE ISLANDS, AT GRADE RAILROAD CROSSINGS, TRANSIT PLATFORM EDGES, AND OTHER LOCATIONS WHERE PEDESTRIANS ARE REQUIRED TO CROSS A HAZARDOUS VEHICULAR WAY. DETECTABLE WARNINGS SHALL ALSO BE INSTALLED AT ALLEYS AND COMMERCIAL ENTRANCES WHEN PERMANENT TRAFFIC CONTROLS ARE PRESENT.
2. ALL RAMP MATERIALS, INSTALLATION, AND WORKMANSHIP SHALL COMPLY WITH THE AMERICAN WITH DISABILITIES ACT.



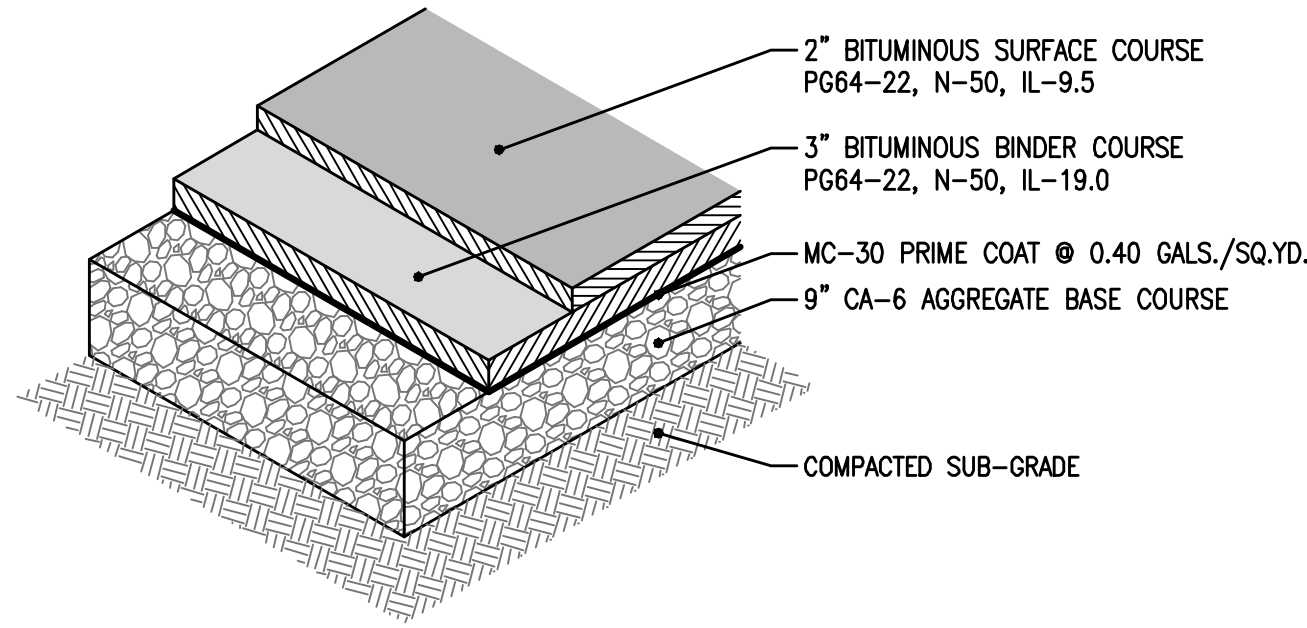
NOTES:

1. DETECTABLE WARNING SHALL BE INSTALLED AT CURB RAMPS, MEDIANS, AND PEDESTRIAN REFUGE ISLANDS, AT GRADE RAILROAD CROSSINGS, TRANSIT PLATFORM EDGES, AND OTHER LOCATIONS WHERE PEDESTRIANS ARE REQUIRED TO CROSS A HAZARDOUS VEHICULAR WAY. DETECTABLE WARNING SHALL ALSO BE INSTALLED AT ALLEYS AND COMMERCIAL ENTRANCES WHEN PERMANENT TRAFFIC CONTROLS ARE PRESENT.
2. THE MAXIMUM SLOPE OF THE SIDE FLARE FOR TYPE B RAMPS SHALL BE 1V : 10H, HOWEVER, IF THE WIDTH OF THE LANDING AREA BETWEEN THE TOP OF THE RAMP AND AN OBSTRUCTION IS LESS THAN 4.0 FEET, THEN THE MAXIMUM SLOPE SHALL BE 1V : 12H.
3. ALL RAMP MATERIALS, INSTALLATION, AND WORKMANSHIP SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.

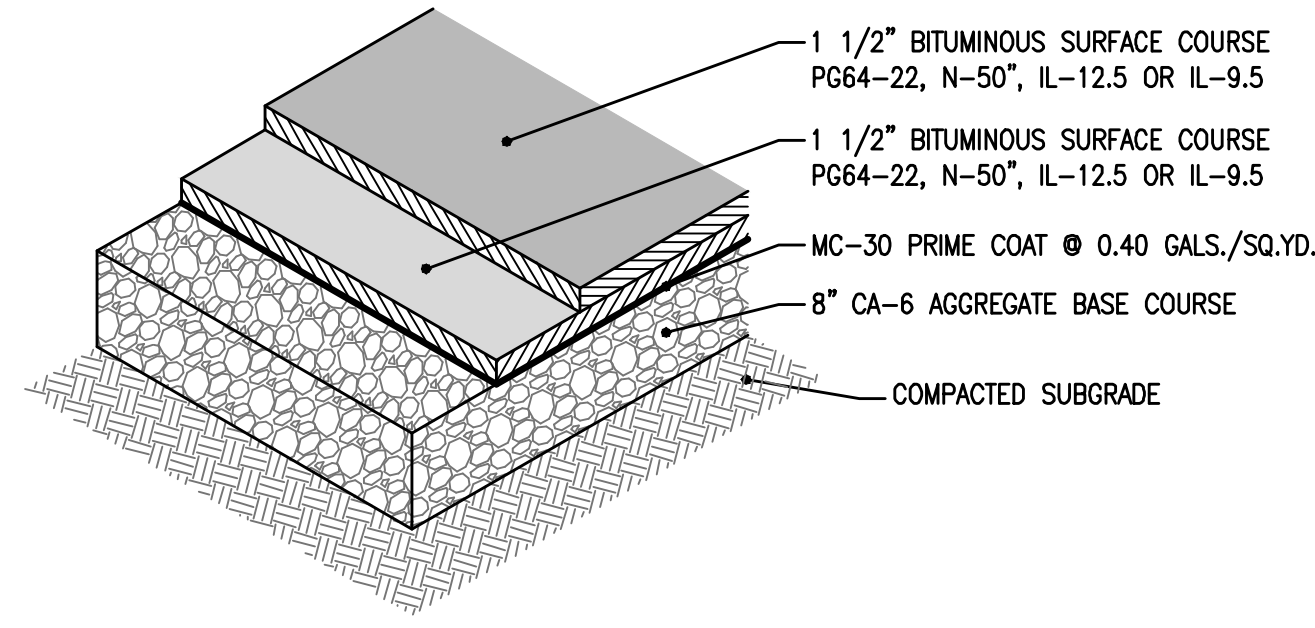




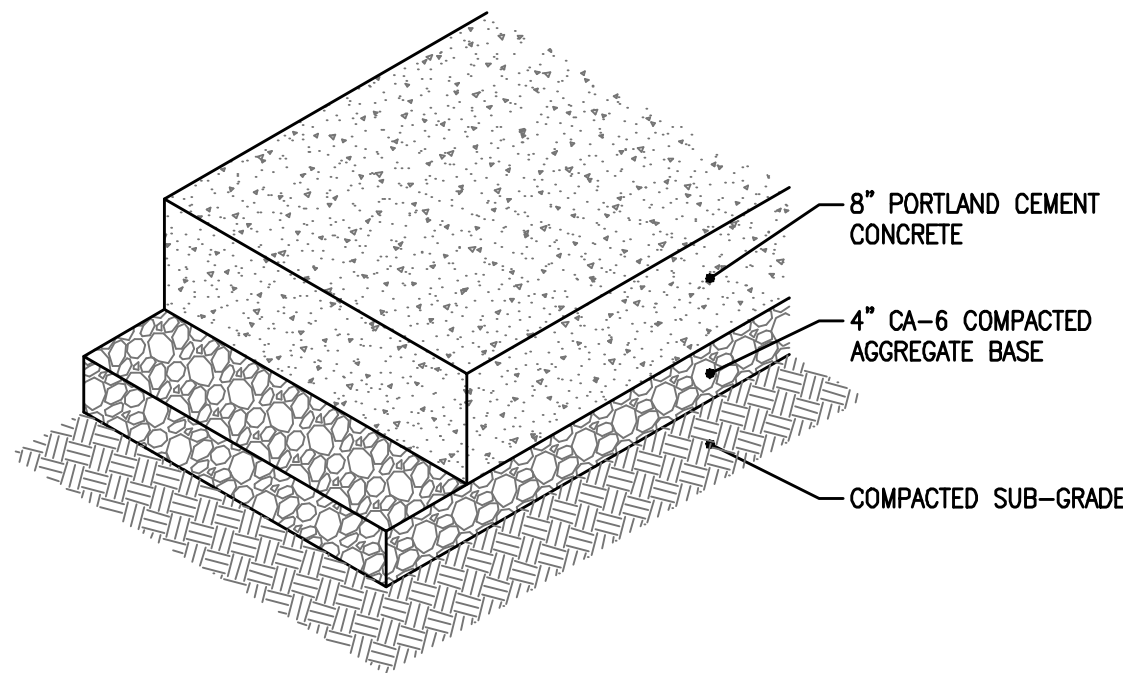
P:\2023\150464F\1 CAD - TWM\1.dwg 13 Improvement Plans.dwg Plotted By: dtk



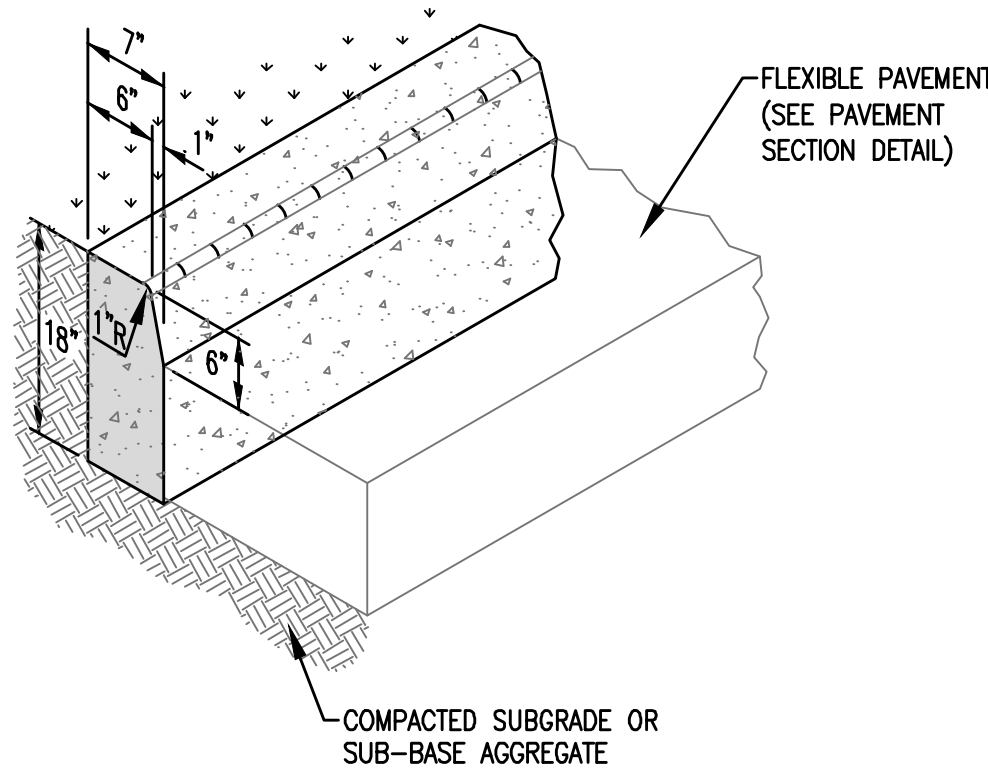
BITUMINOUS CONCRETE PAVEMENT  
HEAVY DUTY



BITUMINOUS CONCRETE PAVEMENT  
STANDARD DUTY



PORTLAND CEMENT CONCRETE PAVEMENT



PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM OF 3,500 psi COMPRESSIVE STRENGTH AT 28 DAYS IN ACCORDANCE WITH ASTM C39.

SUBGRADE SHALL BE THOROUGHLY COMPACTED AT THE PROPER LINE AND GRADE TO 95% OF ASTM C698 MAXIMUM DENSITY PRIOR TO PLACEMENT OF THE CONCRETE. SUBGRADE SHALL BE MOISTENED JUST BEFORE THE CONCRETE IS TO BE PLACED.

WHEN SUB-GRADE IS DISTURBED, 6" OF CA-6 AGGREGATE SHALL BE COMPACTED BENEATH THE CURB TO 100% OF ASTM C698 MAXIMUM DENSITY.

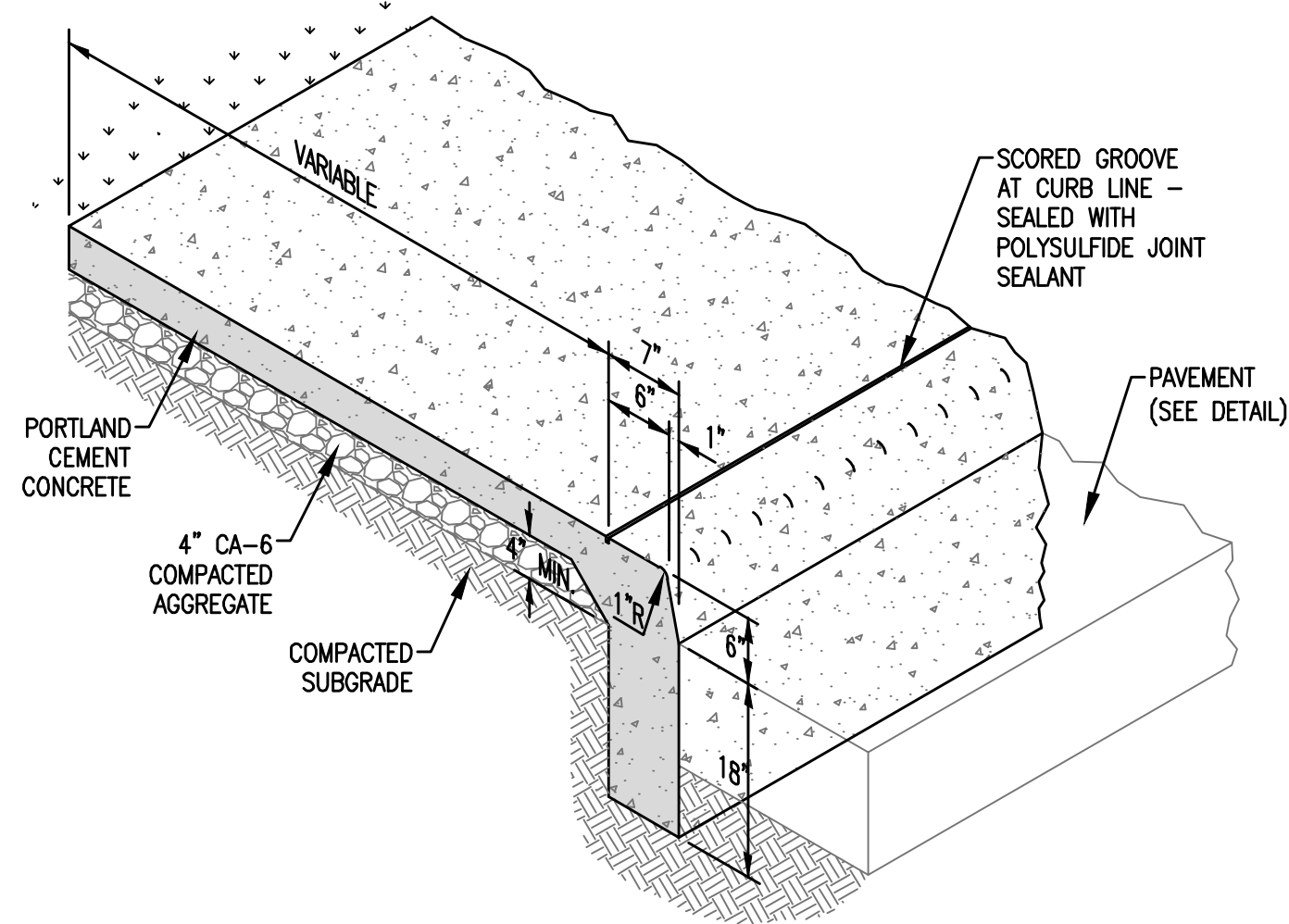
CONTRACTION JOINTS IN CONCRETE CURB SHALL BE A CONTINUATION OF THE JOINTS IN THE ADJACENT PORTLAND CEMENT CONCRETE PAVEMENT OR SPACED AT A MAXIMUM DISTANCE OF FIFTEEN (15) FEET. CONTRACTION JOINTS SHALL ALSO BE PROVIDED AT ALL RADIUS POINT LOCATIONS AT INTERSECTIONS, ISLANDS, ETC.

CONTRACTION JOINT SHALL BE CUT TO A DEPTH OF 2" AND TO A MAXIMUM WIDTH OF 1/8".

3/4" EXPANSION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 100 FEET. AT POINTS WHERE THE PROPOSED OF EXISTING SIDEWALK OR DRIVEWAY PAVEMENT OCCUPIES THE ENTIRE SPACE BETWEEN THE PROPOSED CURB AND AN ADJACENT BUILDING OR PERMANENT STRUCTURE, ONE (1) INCH PREFORMED EXPANSION JOINT SHALL BE PLACED BETWEEN THE SIDEWALK, BUILDING, OR DRIVEWAY PAVEMENT AND THE PROPOSED CURB. THE EXPANSION JOINT MATERIAL SHALL EXPAND THE ENTIRE DEPTH OF THE SIDEWALK, OR DRIVEWAY PAVEMENT, OR TO SUCH DEPTH AS WILL ALLOW ONE (1) INCH EXPANSION BETWEEN THE PROPOSED CURB AND ADJACENT SIDEWALK, BUILDING, OR DRIVEWAY PAVEMENT.

CONTRACTION JOINTS SHALL BE SEALED WITH POLYSULFIDE JOINT SEALANT.

BARRIER CURB  
ADJACENT TO FLEXIBLE PAVEMENT



PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM OF 3,500 psi COMPRESSIVE STRENGTH AT 28 DAYS.

SUBGRADE SHALL BE THOROUGHLY COMPACTED TO 95% OS ASTM D-698 MAXIMUM DENSITY AT THE PROPER LINE AND GRADE PRIOR TO PLACEMENT OF THE CONCRETE.

SUBGRADE SHALL BE MOISTENED JUST BEFORE THE CONCRETE IS TO BE PLACED.

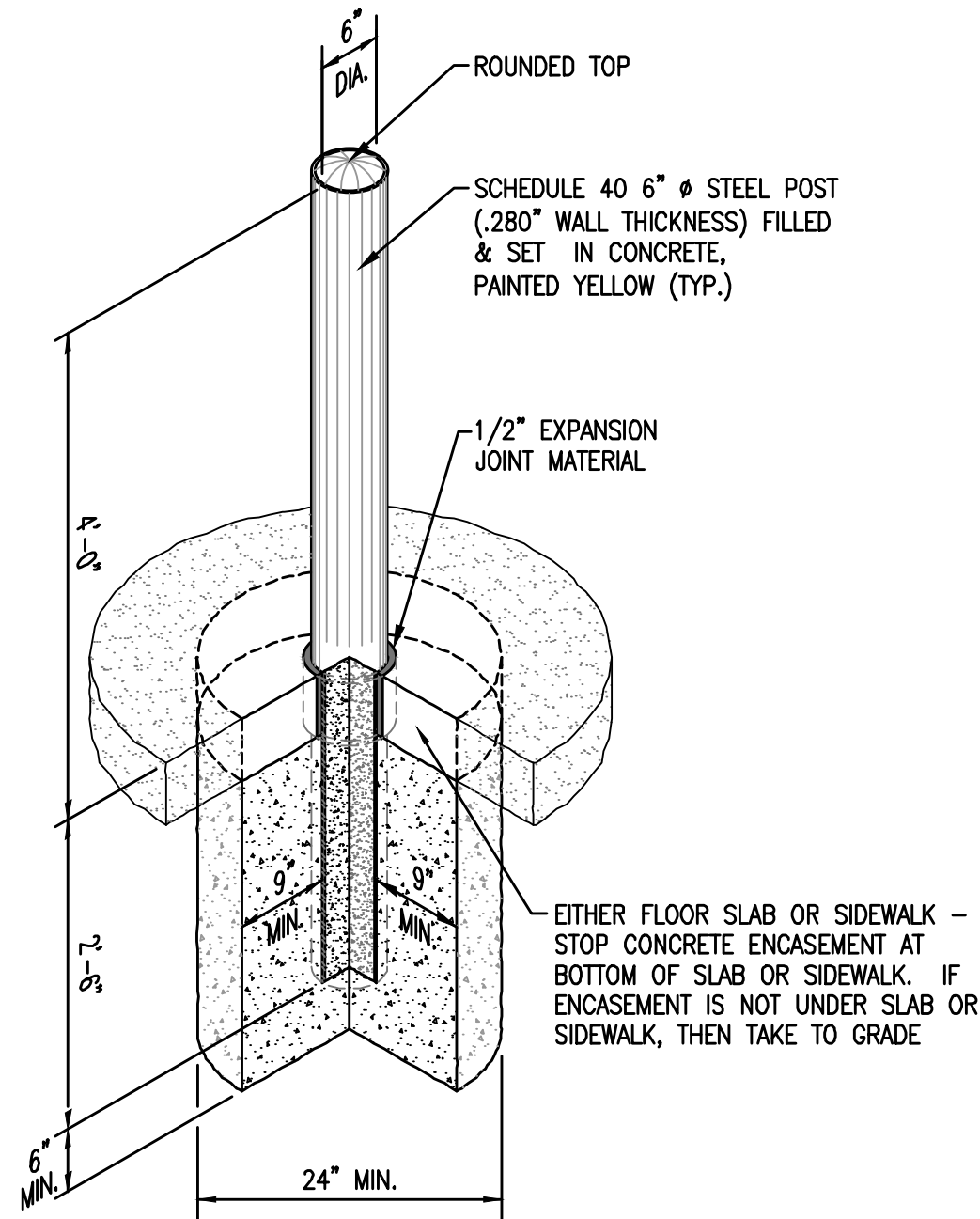
CONTRACTION JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE CENTERLINE OF THE SIDEWALK AT FIVE (5) FOOT INTERVALS AND SHALL HAVE A DEPTH 1/8" MIN. TO 1/4" MAX. THESE JOINTS SHALL BE EDGED WITH AN EDGING TOOL HAVING A 1/4" RADIUS. SIDEWALKS WIDER THAN 10 FEET AND GREATER SHALL HAVE A CONTRACTION JOINT AT EVERY 5 FOOT INTERVAL.

THE FINAL SURFACE OF THE SIDEWALK SHALL BE BRUSHED WITH A WHITWASH BRUSH AT RIGHT ANGLES TO THE SURFACE PRODUCING A SLIGHTLY ROUGHENED SURFACE WITH PARALLEL BRUSH MARKS.

1/2" EXPANSION JOINTS SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES INCLUDING LIGHT STANDARDS, TRAFFIC LIGHT STANDARDS, POWER POLES, ETC.

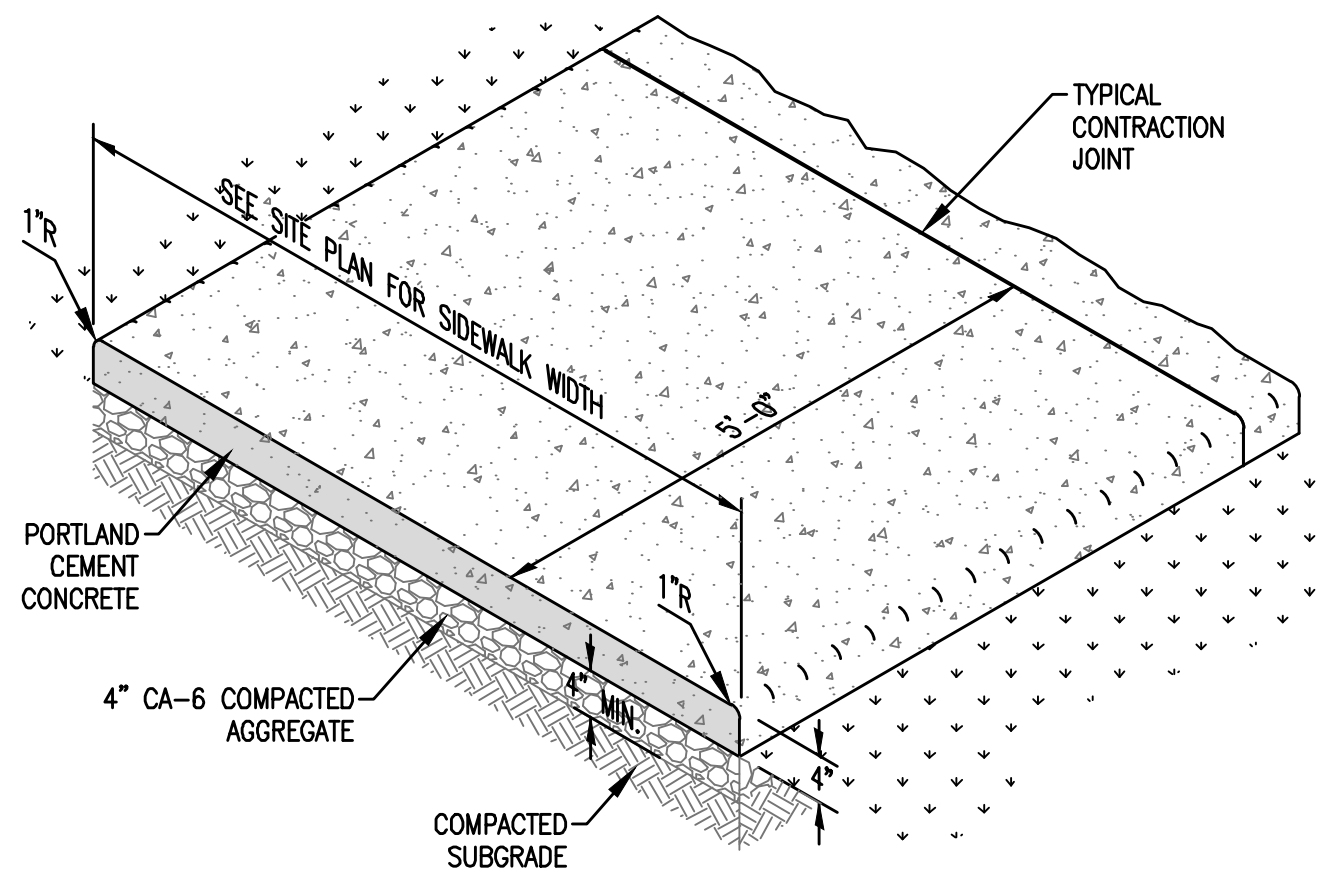
3/4" EXPANSION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 100 FEET. IF THE SIDEWALK IS ADJACENT TO PAVEMENT, THESE JOINTS SHALL MATCH THE PAVEMENT JOINTING PATTERN. EXPANSION JOINTS SHOULD ALSO BE PROVIDED BETWEEN DRIVEWAY PAVEMENT AND SIDEWALK, AND BETWEEN ACCESSIBILITY RAMPS AND CURBS.

TURNDOWN CURB AND SIDEWALK



CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 psi AT 28 DAYS.

PIPE BOLLARD



PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM OF 3,500 psi COMPRESSIVE STRENGTH AT 28 DAYS.

SUBGRADE SHALL BE THOROUGHLY COMPACTED TO 95% OS ASTM D-698 MAXIMUM DENSITY AT THE PROPER LINE AND GRADE PRIOR TO PLACEMENT OF THE CONCRETE.

SUBGRADE SHALL BE MOISTENED JUST BEFORE THE CONCRETE IS TO BE PLACED.

CONTRACTION JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE CENTERLINE OF THE SIDEWALK AT FIVE (5) FOOT INTERVALS AND SHALL HAVE A DEPTH 1/8" MIN. TO 1/4" MAX. THESE JOINTS SHALL BE EDGED WITH AN EDGING TOOL HAVING A 1/4" RADIUS. SIDEWALKS WIDER THAN 10 FEET AND GREATER SHALL HAVE A CONTRACTION JOINT AT EVERY 5 FOOT INTERVAL.

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CONCRETE SIDEWALK



CONSULTING ENGINEERING  
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CHATTANOOGA

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DESIGNED BY:	DLL
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PROJECT NO:	D10150464F

PROJECT:

ORCHARD TOWN CENTER  
OUTPARCEL 13  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE:

PAVEMENT  
DETAILS

C6.5

PRELIMINARY