

Drawing name: K:\CHS_DEV\268930001_Willow_Bridge_CityGate Phase 2_Naperville\1_V2 Design\CAO\PlanSheets\CO.0 - TITLE SHEET.dwg CO.0 May 05, 2026 8:39am by: OdarLewis
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FINAL ENGINEERING PLANS

CITYGATE II

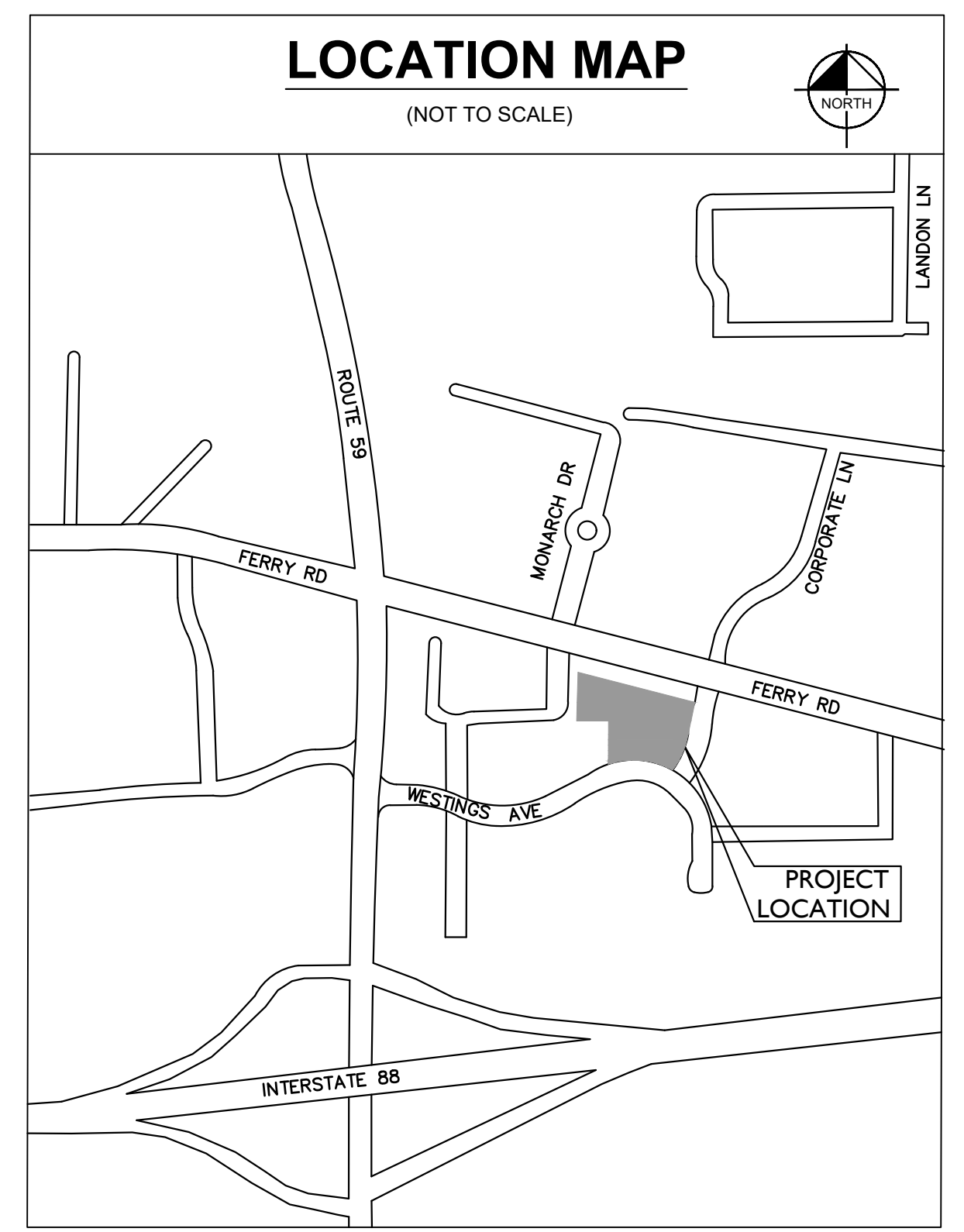
EXISTING PARCEL ADDRESS PROPOSED DEVELOPMENT ADDRESS
 1900 FERRY ROAD 2160 CITYGATE LANE
 NAPERVILLE, IL 60563 NAPERVILLE, IL 60563

UTILITY AND GOVERNING AGENCY CONTACTS

CITY OF NAPERVILLE – PROJECT MANAGER ERIN VENARD 400 S EAGLE ST NAPERVILLE, IL 60540 TEL: (630) 420-4101	DPU ELECTRIC VINCE AMARI 1392 AURORA AVENUE NAPERVILLE, IL 60540 TEL: (630) 305-5319
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PROJECT ENGINEER CHRISTINA GALANIS JON TOCZEK 400 S EAGLE ST NAPERVILLE, IL 60540 TEL: (630) 420-6100	FIRE DEPARTMENT BRET ROSENWINKEL 1380 AURORA AVENUE NAPERVILLE, IL 60540 TEL: (630) 305-5900

PROJECT TEAM

DEVELOPER CITYGATE CENTRE VENTURES II LLC 1110 JORIE BLVD, SUITE 300 OAK BROOK, IL 60523 TEL: (630) 572-6661 CONTACT: JOE SEGOBIANO	CIVIL ENGINEER KIMLEY-HORN AND ASSOCIATES, INC. 4201 WINFIELD RD, SUITE 600 WARRENVILLE, IL 60555 TEL: (630) 487-5550 EMAIL: TAYLOR.ESCHBACH@KIMLEY-HORN.COM CONTACT: TAYLOR ESCHBACH, P.E.
TRAFFIC ENGINEER KLOA 9575 WEST HIGGINS RD, SUITE 400 ROSEMONT, IL 60018 (847) 518-9990 CONTACT: LUAY ABOONA	LANDSCAPE ARCHITECT DANIEL WEINBACH & PARTNERS, LTD. 53 WEST JACKSON BLVD, SUITE 250 CHICAGO, IL 60604 TEL: (312) 542-5845 CONTACT: JON CLARK
ARCHITECT HEDK ARCHITECTS 4595 EXCEL PARKWAY ADDISON, TX 75001 TEL: (469) 585-3794 CONTACT: ERIK EARNSHAW	SURVEYOR SPACECO, INC. 9575 W. HIGGINS ROAD SUITE 700 ROSEMONT, IL 60018 TEL: (847) 696-4060 CONTACT: JERRY P. CHRISTOPH, PLS



LEGAL DESCRIPTION

REFER TO V0.0 FOR ALTA LAND TITLE AND TOPOGRAPHIC SURVEY LEGAL DESCRIPTION.

BENCHMARKS

SOURCE BENCHMARK:
 DUPAGE COUNTY BENCHMARK: NAPERVILLE 208
 PID: AA3753
 STATION IS LOCATED ALONG THE WEST SIDE OF RAYMOND DRIVE, NORTH OF THE INTERSECTION WITH DIEHL ROAD. STATION IS 36.15 FEET WEST OF THE CENTERLINE OF RAYMOND DRIVE, 583.0 FEET NORTH OF THE CENTERLINE OF DIEHL ROAD, AND 195.0 FEET SOUTH OF THE SOUTH END OF A GUARDRAIL SET ALONG THE WEST SIDE OF RAYMOND DRIVE. STATION IS IN A SIDEWALK CROSSING THE ENTRANCE FOR ADDRESS 1415 WEST DIEHL ROAD. MONUMENT IS AN ALUMINUM ROD 0.5 FEET ABOVE ROAD SURFACE AND 2.2 FEET BELOW THE LID.
 ELEVATION = 706.12 FEET NAVD 88

SITE BENCHMARK #1:
 THE SOUTHEAST TAG BOLT ON A FIRE HYDRANT AT THE SOUTHEAST CORNER OF CITY GATE LANE AND CITY GATE LANE.
 ELEVATION = 724.16 FEET NAVD 88

SITE BENCHMARK #2:
 THE ARROW BOLT ON A FIRE HYDRANT SOUTHEAST OF THE SOUTHEAST CORNER OF THE BUILDING ON THE NORTH SIDE OF WESTINGS AVENUE.
 ELEVATION = 722.02 FEET NAVD 88

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CITY OF NAPERVILLE

PROJECT #DEV-0177-2025

PROFESSIONAL ENGINEER'S CERTIFICATION

I, TAYLOR ESCHBACH, A LICENSED PROFESSIONAL ENGINEER OF IL, HEREBY CERTIFY THAT THIS SUBMISSION, PERTAINING ONLY TO THE "C" SERIES CIVIL SHEETS LISTED ABOVE BUT EXCLUDING DETAILS PREPARED BY OTHERS, WAS PREPARED ON BEHALF OF WILLOW BRIDGE BY KIMLEY-HORN AND ASSOCIATES, INC. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 5TH DAY OF MAY, A.D., 2026.

Taylor Eschbach

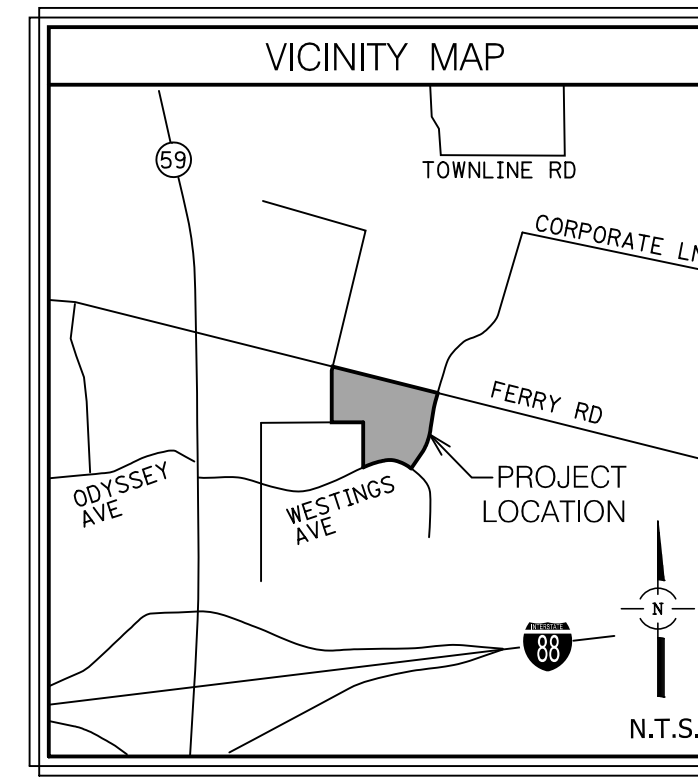
IL LICENSED PROFESSIONAL ENGINEER 062-069246
 MY LICENSE EXPIRES ON NOVEMBER 30, 2027
 DESIGN FIRM REGISTRATION NUMBER: 184002012-0006



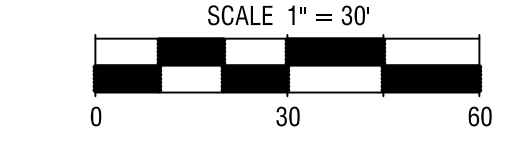
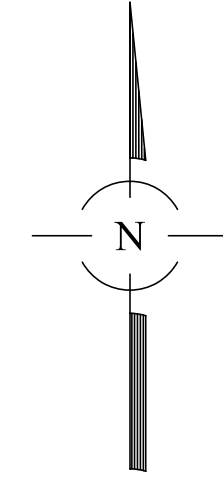
 <small>© 2026, KIMLEY-HORN AND ASSOCIATES, INC. 4201 WINFIELD ROAD, SUITE 600 WARRENVILLE, IL 60555 PHONE: 630-487-5550 WWW.KIMLEY-HORN.COM</small>	<small>SCALE: AS NOTED</small> <small>DESIGNED BY: OTL</small> <small>DRAWN BY: ARG</small> <small>CHECKED BY: TRE</small>
	TITLE SHEET
CITYGATE II 2160 CITYGATE LANE NAPERVILLE, IL 60563	<small>ORIGINAL ISSUE: 12/19/2025</small> <small>KHA PROJECT NO. 268930001</small> <small>SHEET NUMBER</small> C0.0

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

BOUNDARY INFORMATION

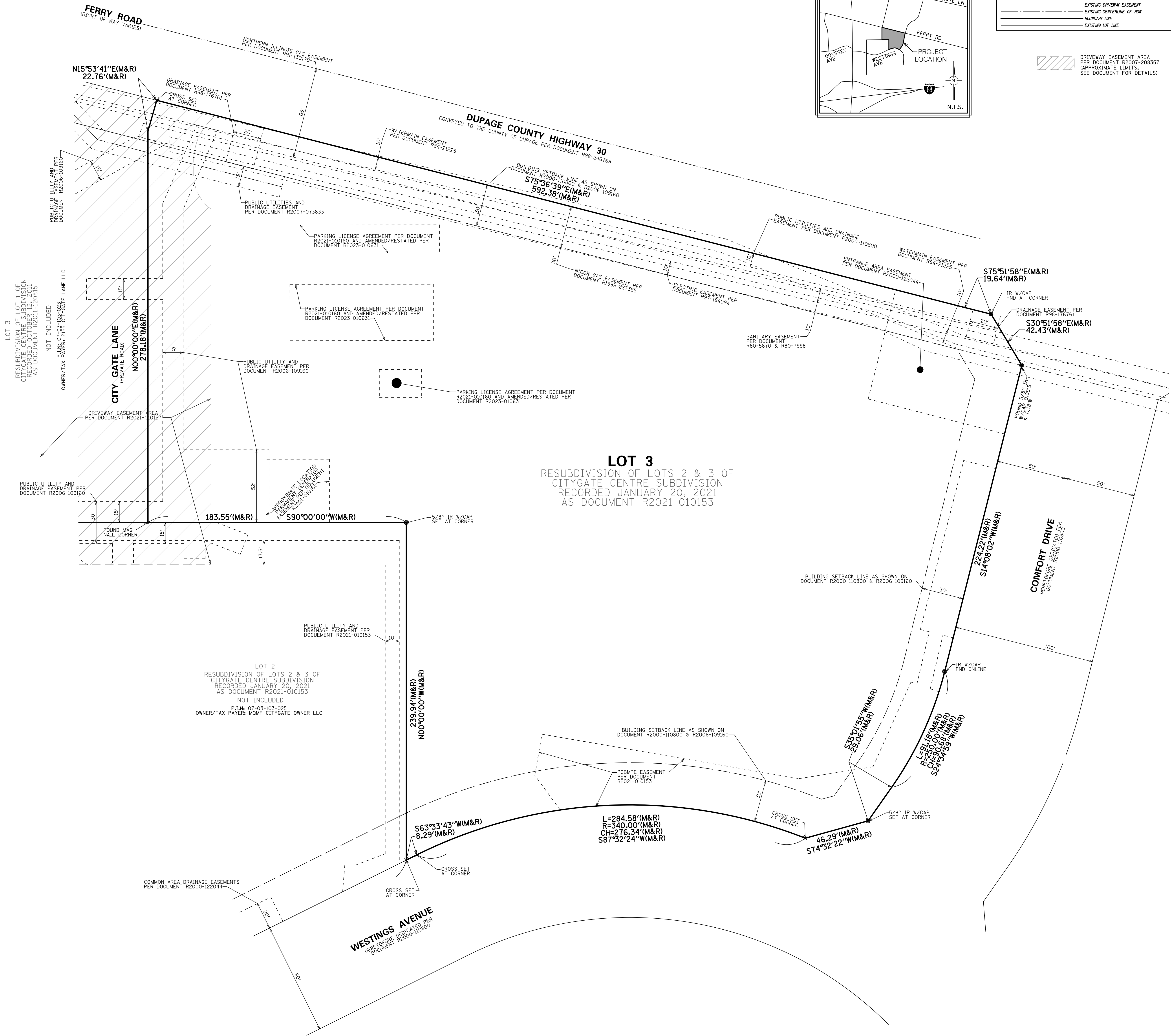


LEGEND	
	PROPOSED PUBLIC UTILITY AND DRAINAGE EASEMENT
	PROPOSED PCNME EASEMENT
	EXISTING EASEMENTS
	EXISTING DRIVEWAY EASEMENT
	EXISTING CENTERLINE OF ROW
	BOUNDARY LINE
	EXISTING LOT LINE



BASIS OF BEARINGS:
TRUE NORTH BASED ON GEODETIC
OBSERVATION 1L EAST ZONE

DRIVEWAY EASEMENT AREA
PER DOCUMENT R2007-208357
(APPROXIMATE LIMITS,
SEE DOCUMENT FOR DETAILS)



NO.	DATE	REMARKS
1	12/17/25	EASEMENT R2021-010157

A.L.T.A./N.S.P.S. LAND TITLE SURVEY
CITY GATE CAMPUS - PHASE II
NAPERVILLE, ILLINOIS



FILENAME: 424613ALTA-01
DATE: 11/17/2025
JOB NO. 4246.13
SHEET

GENERAL NOTES

- 1. EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY PREPARED BY: SPACECO, INC. 8575 W. HOGANS ROAD SUITE 700 ROSEMONT, IL 60018 TEL: (847) 896-4060 CONTACT: JERRY P. CHRISTOPH, PLS

- 2. COPIES OF THE SURVEY ARE AVAILABLE FROM THE ENGINEER. SITE CONDITIONS MAY HAVE CHANGED SINCE THE SURVEY WAS PREPARED. CONTRACTORS TO VISIT SITE TO FAMILIARIZE THEMSELVES WITH THE CURRENT CONDITIONS.
- 3. COPIES OF SOILS INVESTIGATION REPORTS MAY BE OBTAINED FROM THE OWNER. ANY BRACING, SHEETING OR SPECIAL CONSTRUCTION METHODS DEEMED NECESSARY BY THE CONTRACTOR IN ORDER TO INSTALL OR REPLACE IMPROVEMENTS TO EXISTING GRADES WILL NOT ALIEVATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE CITY OF NAPERVILLE UPON FINAL INSPECTION OF THE PROJECT.

- 4. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL PROPOSED WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS WHICH ARE HEREBY MADE A PART HEREOF: A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS," AS PREPARED BY IDOT, LATEST EDITION.
- 5. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" AS PUBLISHED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA), LATEST EDITION.
- 6. "ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS," AS PUBLISHED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA), LATEST EDITION.

- 7. REGULATIONS, STANDARDS AND GENERAL REQUIREMENTS SET FORTH BY THE CITY OF NAPERVILLE, UNLESS OTHERWISE NOTED ON THE PLANS.
- 8. THE NATIONAL ELECTRIC CODE.
- 9. ALL APPLICABLE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.
- 10. STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT CHANGES TO THE CONTRACT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THE CONTRACTOR'S WORK MAY NOT BE SPECIFICALLY NOTED, BUT ARE CONSIDERED A PART OF THE CONTRACTOR'S CONTRACT.

- 11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL ITEMS REQUIRED FOR CONSTRUCTION OF THE PROJECT, AS SHOWN ON THE PLANS, ARE INCLUDED IN THE CONTRACT. ANY ITEM NOT SPECIFICALLY INCLUDED IN THE CONTRACT, BUT WHICH IS REQUIRED FOR THE PROJECT, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF A DISCREPANCY WITH THE PLANS AND QUANTITIES.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE BEGINNING OF CONSTRUCTION. THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT THEM TO THE SURVEYOR OR ENGINEER BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR ASSUMES ALL RESPONSIBILITY IN THE EVENT OF DISCREPANCY BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS, AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO ANY WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT THE CONTRACTOR'S OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE INTENT OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

- 13. THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS PRIOR TO STARTING WORK. THE CONTRACTOR, BY USING THESE PLANS AND THE WORK THEREON, AGREES TO ACCEPT ALL RESPONSIBILITIES AND OBLIGATIONS OF THE CITY OF NAPERVILLE, THEIR EMPLOYEES AND AGENTS AND THE OWNER FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN.
- 14. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION METHODS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- 15. CONSTRUCTION MATERIALS AND/OR EQUIPMENT MAY NOT BE STORED IN THE RIGHT-OF-WAY, AS DIRECTED BY THE OWNER.

- 16. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAYS ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF THE UTILITY LINES AND THEIR PROPOSED CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- 17. OWNER SHALL OBTAIN EASEMENTS AND APPROVAL OF PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS AND EASEMENTS.
- 18. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 19. NOTIFICATION OF COMMENCING CONSTRUCTION: 19.A. THE CONTRACTOR SHALL NOTIFY AFFECTED GOVERNMENT AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY ALL TESTING AGENCIES, THE CITY OF NAPERVILLE, AND THE OWNER SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.

- 20. FAILURE OF THE CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN THE TESTING COMPANIES TO BE UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND THE PROJECT UNTIL THE TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK SHALL BE BORNE BY THE CONTRACTOR.
- 21. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL EMERGENCY TRAFFIC, AS DIRECTED BY THE CITY OF NAPERVILLE.
- 22. ANY EXISTING SIGNS, LIGHT STANDARDS, AND UTILITY POLES THAT INTERFERE WITH CONSTRUCTION OPERATIONS AND ARE NOT NOTED ON THE PLANS SHOULD BE REMOVED AND RESET BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE, AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.
- 23. ALL TREES TO BE SAVED SHALL BE IDENTIFIED PRIOR TO THE CONSTRUCTION BY THE LANDSCAPE ARCHITECT AND SHALL BE PROTECTED PER IDOT SECTION 201.05. THE RIGHT-OF-WAY LINE AND LIMITS OF THE CONTRACTOR'S OPERATIONS SHALL BE CLEARLY DEFINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL TREES NOTED TO REMAIN SHALL BE PROTECTED FROM DAMAGE TO TRUNKS, BRANCHES AND ROOTS. NO EXCAVATING, FILLING OR GRADING IS TO BE DONE INSIDE THE DRIP LINE OF TREES UNLESS OTHERWISE INDICATED.
- 24. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT, FORESTER, OR ARBORIST AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION. ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THE CONTRACTOR'S WORK SHALL BE DISPOSED OF BY THE CONTRACTOR'S OWN EXPENSE. ALL CUTS OVER ONE (1) INCH IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.
- 25. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL.
- 26. ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT, AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION. THE CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A PAY ITEM IS LISTED ON THE BID LIST.
- 27. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CURBS, ETC., SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS REQUIRED FOR SUCH DISPOSAL.
- 28. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS, AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEANUP, AS DIRECTED BY THE ENGINEER OR OWNER, BURNING ON THE SITE IS NOT PERMITTED.
- 29. NO UNDERGROUND WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE CITY OF NAPERVILLE PRIOR TO INSTALLING PAVEMENT BASE, BINDER, AND SURFACE, AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET, AS NECESSARY.
- 30. WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND PIPE SHALL BE CLEANED OF DEBRIS AND PAINTED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THE CONTRACTOR'S WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE MERGED INTO THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR STORM SEWERS, WHICH SHALL BE PAID IN FULL FOR CLEANING, PATCHING, REMOVAL, AND DISPOSAL OF DEBRIS AND DIRT, DRAINAGE STRUCTURES AND STORM SEWERS AS PART OF THE CONTRACTOR'S PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. NO EXTRA PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR STORM SEWERS CONSTRUCTED AS PART OF THE CONTRACTOR'S PROJECT.
- 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THEIR FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLANS. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) AND THE CITY OF NAPERVILLE FOR UTILITY LOCATIONS.
- 32. THE GENERAL CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE CABLE TV, PHONE, ELECTRIC, GAS AND TELEVISION SERVICES AS NECESSARY TO THE PROJECT. THE CONTRACTOR SHALL SECURE SITE LAYOUTS FOR THESE UTILITIES AND SHALL COORDINATE AND PROVIDE CONDUIT CROSSINGS AS REQUIRED. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO GENERAL CONTRACTOR AGREEMENT WITH THE OWNER. ANY CONFLICTS IN UTILITIES SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 33. CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AT ALL PROPOSED UTILITY CONNECTION LOCATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLING MATERIAL AND STARTING WORK.
- 34. ANY FIELD TIES ENCOUNTERED SHALL BE INSPECTED BY THE ENGINEER. THE DRAIN TILE SHALL BE CONNECTED TO THE STORM SEWER SYSTEM AND A RECORD KEPT BY THE CONTRACTOR OF THE LOCATIONS AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THE CONTRACTOR'S WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

PAVING NOTES

- 1. GENERAL 1.1. PAVING WORK INCLUDES FINAL SUBGRADE PREPARATION, SHAPING, AND COMPACT; PLACEMENT OF SUBBASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FORMING, FINISHING AND CURING CONCRETE PAVEMENT, CURBS, AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK.
- 1.2. COMPACTON REQUIREMENTS [REFERENCE ASTM D-1557 (MODIFIED PROCTOR)] SUBGRADE = 93%; SUBBASE = 93%; AGGREGATE BASE COURSE = 95%; BITUMINOUS COURSES = 95% OF MAXIMUM DENSITY, PER ILLINOIS DEPARTMENT OF TRANSPORTATION (DOT) HIGHWAY STANDARDS.
- 1.3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING WARNING DEVICES, AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AND IN ACCORDANCE WITH THE CITY OF NAPERVILLE CODE.
- 1.4. SUBGRADE PREPARATION 2.1. EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.01 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL CONFIRM THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISHED TOP SUBGRADE ELEVATION HAS BEEN GRADEN WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS. UNLESS THE CONTRACTOR ADVISES THE ENGINEER IN WRITING PRIOR TO GRADING FOR BASE COURSE CONSTRUCTION, IT IS UNDERSTOOD THAT THE CONTRACTOR HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE'S PREPARATION.
- 2.2. PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF-ROLLED AND INSPECTED FOR UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE CORRECTED. THIS MAY INCLUDE ONE OR MORE OF THE FOLLOWING CONSTRUCTION METHODS APPROVED BY THE ENGINEER: 2.2.1. SCARIFY, DISC, AND AERATE. 2.2.2. REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL. 2.2.3. REMOVE AND REPLACE WITH GRANULAR MATERIAL. 2.2.4. USE OF GEOTEXTILE FABRIC.
- 2.3. PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE PAVEMENT AREA SHALL BE FINE-GRADED TO WITHIN 0.04 FEET (1/2 INCH) OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF THE CURB, SO AS TO MAINTAIN THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.
- 2.4. PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE SHALL BE APPROVED BY THE TESTING ENGINEER.
- 3. CONCRETE WORK 3.1. ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE A MINIMUM OF SIX (6) INCHES THICK. THE PROPER THICKNESS OF PAVEMENT COURSES SHALL BE IDENTIFIED ON THE PLANS (14) DAYS AND A MINIMUM OF 4,000 PSI COMPRESSIVE STRENGTH AT TWENTY-EIGHT (28) DAYS. ALL CONCRETE SHALL BE BROOM-FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL.
- 3.2. CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS SECTIONS TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. PRE-MIXED FIBER EXPANSION JOINTS, WITH TWO (2) INCHES DIAMETER EPOXY-GLOATED STEEL DONUT BARS, SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES.
- 3.3. CONCRETE CURB SHALL BE DERESSED AND MEET THE SLOPE REQUIREMENTS OF THE ILLINOIS ACCESSIBILITY CODE AT LOCATIONS WHERE PUBLIC WALKS INTERSECT CURB LINES AND OTHER LOCATIONS, AS DIRECTED, FOR THE PURPOSE OF PROVIDING ACCESSIBILITY.
- 3.4. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE.
- 3.5. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT TWO (2) INCH TO ONE (1) INCH INTERVALS AND 1/2" INTERVALS AND CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, AND OTHER STRUCTURES.
- 3.6. CONCRETE CURING AND PROTECTION SHALL BE PER IDOT STANDARDS. TWO (2) COATS OF IDOT APPROVED CURING AGENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.
- 3.7. THE COST OF AGGREGATE BASE OR SUBBASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM.
- 4. FLEXIBLE PAVEMENT 4.1. THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, AND DRIVE AISLES SHALL BE AS DETAILLED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL BE COMPOSED OF THE FOLLOWING COURSES: TYPE B BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE I-L-19, NSO, AND BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX NSO, OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM MATERIAL CONTRACTED.
- 4.2. ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE BINDER COURSE IS LAID. THE AGGREGATE BASE SHALL BE UNIFORMLY PRIME COATED AT A RATE OF 0.4 TO 0.5 GALLONS PER SQUARE YARD PRIOR TO PLACING THE BINDER COURSE. PRIME COAT MATERIALS SHALL BE IDOT APPROVED AND IDENTIFIED BY IDOT STANDARDS.
- 4.3. PRIOR TO PLACEMENT OF THE SURFACE COURSE, THE BINDER COURSE SHALL BE CLEANED AND REPAIRED. ALL DAMAGED AREAS IN THE BINDER COURSE, OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND STAFF NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE AT A RATE OF 0.5 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS PER IDOT STANDARDS.
- 4.4. SEAMS IN BANI, BINDER, AND SURFACE COURSE SHALL BE STAGGERED A MINIMUM OF 6 INCHES.
- 5. TESTING AND FINAL ACCEPTANCE 5.1. THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE ENGINEER.
- 5.2. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE CITY OF NAPERVILLE, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION.
- 5.3. WHEN REQUIRED BY THE CITY OF NAPERVILLE, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED IN ORDER TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY REWORK AS REQUIRED BY IDOT STANDARDS.
- 5.4. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.
- 6. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE CITY OF NAPERVILLE CODE. WHEN CONFLICTS ARISE BETWEEN MUNICIPAL CODE, GENERAL NOTES AND SPECIFICATIONS, THE MORE STRINGENT SHALL TAKE PRECEDENCE.
- 7. THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE NEARLY STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL, OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING IT. THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND COVER UNTIL IT IS CORRECT.

EARTHWORK NOTES

- 1. GENERAL 1.1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE.
- 1.2. ANY QUANTITIES IN THE BID PROPOSAL ARE INTENDED AS A GUIDE FOR THE CONTRACTOR'S USE IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL RECORDS AND BE KNOWN AS THE BASIS OF ALL SITE CONDITIONS.
- 1.3. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC., MUST BE ACCOUNTED FOR.
- 1.4. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT OF EXCESSIVE FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.
- 1.5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES SHALL INCLUDE THE PLACEMENT OF FILTER TRENCHES, ETC., TO PROTECT ADJACENT PROPERTY, WETLANDS, ETC., SHALL OCCUR BEFORE GRADING BEGINS.
- 1.6. PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL ERECT A CONSTRUCTION FENCE AROUND ANY TREE DESIGNATED TO BE PRESERVED. SAID FENCE SHALL BE PLACED IN A CIRCLE CENTERED AROUND THE TREE. THE FENCE SHALL BE AT LEAST 10 FEET FROM THE TREE AND SHALL EXTEND TO THE FURTHEST EXTENDING BRANCHES) SHALL BE WITHIN THE FENCE LIMITS. THE EXISTING GRADE WITHIN THE FENCED AREA SHALL NOT BE DISTURBED.
- 2. TOPSOIL EXCAVATION INCLUDES: 2.1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED FERTILE FILL MATERIAL. EXISTING VEGETATION SHALL BE REMOVED PRIOR TO STRIPPING TOPSOIL OR FILLING AREAS.
- 2.2. PLACEMENT OF EXCAVATED MATERIAL IN OWNER-DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED AND CONSTRUCTION STRUCTURAL FILL MATERIAL. PROVIDE NECESSARY EROSION CONTROL MEASURES FOR STOCKPILE.
- 2.3. TOPSOIL STOCKPILED FOR RESPREAD SHALL BE FREE OF CLAY AND SHALL NOT CONTAIN ANY OF THE TRANSITIONAL MATERIAL BETWEEN THE TOPSOIL AND CLAY. THE TRANSITIONAL MATERIAL SHALL BE USED IN NON-STRUCTURAL FILL AREAS OR DISPOSED OF OFF-SITE.
- 2.4. TOPSOIL RESPREAD SHALL INCLUDE HAULING AND SPREADING SIX (6) INCHES OF TOPSOIL DIRECTLY OVER AREAS TO BE LANDSCAPED. WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER.
- 2.5. MODERATE COMPACTION IS REQUIRED IN NON-STRUCTURAL FILL AREAS.
- 3. EARTH EXCAVATION INCLUDES: 3.1. EXCAVATION OF SUBSURFACE MATERIALS WHICH ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN A TOLERANCE OF 0.1 FEET OF THE PLAN SUBGRADE ELEVATIONS WHILE MAINTAINING PROPER DRAINAGE. THE TOLERANCE IN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIALS SHALL "BALANCE" DURING THE FINE GRADING OPERATION.
- 3.2. PLACEMENT OF SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.1 FEET. THE FILL MATERIALS SHALL BE PLACED IN LAYER LIFTS THAT SHALL NOT EXCEED EIGHT (8) INCHES THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE REQUIRED COMPACTION.
- 3.3. STRUCTURAL FILL MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE SITE NOT REQUIRING STRUCTURAL FILL. WITHIN SIX (6) INCHES OF SURFACE FINISHED GRADE ELEVATION, IN AREAS REQUIRING STRUCTURAL FILL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HAULING AND DISPOSAL OF ANY OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.
- 3.4. COMPACTION OF SUITABLE MATERIALS SHALL BE TO AT LEAST 93% OF THE MODIFIED PROCTOR DRY DENSITY WITHIN PROPOSED PAVEMENT AREAS. SIDEWALK CONSTRUCTION SHALL BE AT LEAST 95% OF THE MODIFIED PROCTOR WITHIN PROPOSED BUILDING PAD AREAS.
- 4. UNSUITABLE MATERIAL: UNSUITABLE MATERIALS SHALL BE CONSIDERED MATERIAL THAT IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT AND BUILDING CONSTRUCTION, AND IS ENCOUNTERED BELOW NORMAL GRADE. SUCH MATERIALS SHALL BE REMOVED AND THE PROPOSED SUBGRADE AND PAVEMENT MATERIAL AND TO WHAT EXTENT SHALL BE MADE BY THE ENGINEER WITH THE CONCURRENCE OF THE OWNER.
- 5. MISCELLANEOUS. THE CONTRACTOR SHALL: 5.1. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS. 5.2. SCARIFY, DISC, AERATE, AND COMPACT, TO THE DEGREE SPECIFIED, THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT; THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.
- 5.3. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.
- 5.4. BACKFILL THE CURB AND GUTTER AFTER ITS CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE MATERIAL.
- 6. TESTING AND FINAL ACCEPTANCE 6.1. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM A FULLY LOADED SIX-WHEEL TANDEM AXLE TRUCK FOR PROOF ROLLING THE PAVEMENT SUBGRADE TO WITHIN TOLERANCES SPECIFIED ON THE PLANS AND THE BASE MATERIAL. THIS SHALL BE WITNESSED BY THE ENGINEER AND THE OWNER. (SEE PAVING SPECIFICATION)
- 6.2. ANY UNSUITABLE AREA ENCOUNTERED AS A RESULT OF PROOF ROLLING SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL OR OTHERWISE CORRECTED AND APPROVED BY THE ENGINEER.

SIGNAGE AND PAVEMENT MARKING NOTES

- 1. ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARDS.
- 2. SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080-1/8" THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGEND ON THE FACE. LEGEND SHALL BE IN ACCORDANCE WITH THE MUTCD.
- 3. POSTS: SIGN POSTS SHALL BE A HEAVY-DUTY STEEL "U" SHAPED CHANNEL WEIGHING 30 POUNDS/FOOT, SUCH AS A TYPE B METAL POST, AS PER THE IDOT STANDARDS (OR 2-INCH PERFORATED STEEL TUBE).
- 4. SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH IDOT STANDARDS.
- 5. PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS IN THE PUBLIC RIGHT-OF-WAY, SUCH AS STOP LINES, CENTERLINE CROSSWALKS, AND DIRECTIONAL ARROWS, SHALL BE REFLECTORIZED THERMOPLASTIC HOT ROLLED INTO PAVEMENT.
- 6. PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW-WEAR" APPLICATIONS, SHALL BE PAINT IN ACCORDANCE WITH IDOT STANDARDS.
- 7. COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND LOCAL CODE. STANDARD PARKING SPACES SHALL BE PAINTED WHITE.
- 8. THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55 DEGREES FAHRENHEIT AND RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE AIR TEMPERATURE IS 50 DEGREES FAHRENHEIT AND RISING.

STORM SEWER NOTES

- 1. STORM SEWER PIPE: ALL STORM SEWER PIPE MATERIAL, SIZE AND TYPE SHALL BE INSTALLED AS INDICATED ON THE UTILITY PLAN. UNLESS OTHERWISE NOTED ON THE PLANS, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS FOR DETERMINING PIPE CLASS AND CONFORMING TO ASTM C76. ANY CHANGES TO THE PIPE MATERIAL, SIZE AND TYPE MUST BE APPROVED BY THE OWNER, ENGINEER AND CITY OF NAPERVILLE PRIOR TO ORDERING MATERIALS OR INSTALLING THE PIPE. ALL STORM SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING: PIPE SIZE CODE PIPE MATERIAL 12" - 12" PVC POLYVINYL CHLORIDE PLASTIC PIPE SDR=26 (ASTM D3034 AND D2241) 18" - 18" HDPE HIGH DENSITY POLYETHYLENE PIPE 24" - 48" DIP DUCTILE IRON PIPE, CLASS 52 (ANSI 21.51 AND ANWA C151)
- 2. BAND-SAW OR SIMILAR COUPLING SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS.
- 3. ALL FOOTING DRAIN DISCHARGE PIPES AND DOWN SPOUTS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- 4. CONSTRUCTION: ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.
- 5. COVER: THE CONTRACTOR SHALL MAINTAIN AT LEAST TWO (2) FEET OF COVER OVER THE TOP OF SHALLOW PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL SOUND OVER ANY PIPES THAT HAVE LESS THAN TWO (2) FEET OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.
- 6. STRUCTURES: MANHOLE, CATCH BASIN, AND INLET BODIES SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE MANHOLES AND CATCH BASINS SHALL BE A MINIMUM OF FOUR (4) FEET IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH "O" RING OR BUTYL ROPE. A MINIMUM OF TWELVE (12) INCHES OF ADJUSTING RINGS SHALL BE USED.
- 7. A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES.
- 8. THE FRAME, GATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS.
- 9. CLEANING: THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.
- 10. THE STORM SEWER SHALL BE TELEVISION IF REQUIRED BY THE CITY OF NAPERVILLE.
- 11. MANHOLES, CATCH BASINS, INLETS, FRAMES, GRATES, AND OTHER STRUCTURES SHALL BE CONSTRUCTED TO THE TYPE, STYLE, AND SIZE, AS SET FORTH WITH THE ORDINANCES AND STANDARDS OF THE CITY OF NAPERVILLE.
- 12. ALL PVC PIPES CONNECTED TO REINFORCED CONCRETE PIPE SHALL BE CURED AND BOOTED PER THE CITY OF NAPERVILLE REQUIREMENTS.
- 13. NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.
- 14. THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL TILE ENCOUNTERED IN FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.
- 15. THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE COULVERTS, WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED: 15.1. REINFORCED CONCRETE PIPE (RCP) - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM STANDARD C 76, CLASS 1, 1, 1, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A DIRECTLY ENCLOSED STONE OR STONE FILLER AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 425. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT.
- 15.2. HIGH DENSITY POLYETHYLENE PIPE (HDPE) - HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252 AND M 204. PIPE AND FITTINGS SHALL BE MADE FROM VERGIN PE COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 324200C AS DEFINED AND DESCRIBED IN ASTM C 3350. RUBBER GASKET JOINTS SHALL BE USED.
- 16. BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE, NOT LESS THAN 1/2" INCH IN SIZE AND A MINIMUM OF SIX (6) INCHES THICK. THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS, THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS.
- 17. BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL BE IDENTIFIED ON THE PLANS. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 18. JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS; CASCADE CSS, ROMAC LSS, FERRO, INC. SHEAR RING, OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, FRAME SIZE, AND PART NUMBER SHALL BE CLEARLY IDENTIFIED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BOLTS OF LADING, OR OTHER QUALITY ASSURANCE INFORMATION WHICH IS REQUESTED BY THE CITY ENGINEER. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL.
- 19. MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT. ANY LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER.
- 20. MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED EQUAL) WITH THE WORD "ASTM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE MANHOLE COVER. 1. ANY MANHOLES THAT FAIL THE TEST SHALL BE SEALED AND RE-TESTED UNTIL ACCEPTABLE.
- 21. MANHOLE STEPS ON MAXIMUM 16 VERTICAL CENTER SHALL BE FURNISHED WITH EACH MANHOLE. SECURELY ANCHORED IN PLACE. TRUE TO INCH ALIGNMENT, IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 1/2" INCH 615M/615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT. MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS. CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER-TIGHT AT ALL POINTS BELOW FINAL GRADE. ALL WATER-TIGHT AREAS IN EAST JORDAN IRON WORKS 1022 BEARING, GRATE, OR APPROVED EQUAL. FRAMES AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES AND GRATES SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. 1. 48-INCH DIAMETER - 60 SECONDS 2. 60-INCH DIAMETER - 75 SECONDS 3. 72-INCH DIAMETER - 90 SECONDS 4. 84-INCH DIAMETER - 105 SECONDS 1. ANY MANHOLES THAT FAIL THE TEST SHALL BE SEALED AND RE-TESTED UNTIL ACCEPTABLE.
- 22. THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT AND SHALL BE LEAK PROOF CONSTRUCTION, CAPABLE OF WITHSTANDING THE ANTICIPATED LOADINGS. SEE TABLE 200-1 IN THE NAPERVILLE STANDARD SPECIFICATIONS FOR THE MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING DIAMETERS. THE STEEL CASING PIPE SHALL HAVE MINIMUM TENSILE STRENGTH OF 35,000 PSI AND SHALL MEET THE REQUIREMENTS OF A159/A159M-04 (OR LATEST EDITION), GRADE B. RING DEFLECTION SHALL NOT EXCEED 2% OF THE NOMINAL DIAMETER. THE STEEL CASING PIPE SHALL BE DELIVERED TO THE JOBSITE WITH BEVELED ENDS TO FACILITATE FIELD WELDING.
- 23. ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE, DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS. ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LIFT HOLES TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE STORM SEWER AND SANITARY SEWER BE ALLOWED.
- 24. FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2-INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1-FOOT BY 1-FOOT SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY TIED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.
- 25. ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH NONSHRINKING HYDRAULIC GROUT TO FORM A FLEET TO THE STRUCTURE OR ADJUSTING RING. WHEN ADJUSTMENTS ARE REQUIRED, THE USE OF PRECAST CONCRETE ADJUSTING RINGS IS PERMITTED. ALL ADJUSTING SET IN A CONTINUOUS LAYER OF PREFORMED BITUMINOUS MASTIC. THE MAXIMUM HEIGHT OF ADJUSTMENTS SHALL BE 12 INCHES. TWO INCH CONCRETE RINGS SHALL ONLY BE USED WHEN THE ADJUSTMENT IS LESS THAN 3 INCHES.

DEPARTMENT OF PUBLIC UTILITIES - WATER/WASTEWATER GENERAL NOTES

- 1. NEW WATER MAIN VALVES, INCLUDING PRESSURE TAP VALVES, ADJACENT TO AN EXISTING WATER MAIN, AND GASTING WATER MAIN VALVES SHALL ONLY BE OPERATED BY THE CITY OF NAPERVILLE DEPARTMENT OF PUBLIC UTILITIES CEE/CM DIVISION PERSONNEL WITH 48-HOUR NOTICE (MONDAY-FRIDAY). CONTACT NAPERVILLE DPU-W AT 630-420-4122 FOR SCHEDULING.
- 2. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR AT HIS OWN EXPENSE. THE UTILITY OWNER'S ADJUSTMENTS AND RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED. ALL STRUCTURE FRAMES SHALL BE FLUSH WITH FINAL GRADE.
- 3. TREES SHALL BE INSTALLED A MINIMUM OF FIVE (5) FEET HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES. TREES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING MANHOLES, VALVES, AND VALVE BOXES. VALVES AND HYDRANTS, NO TREES, SHRUBS OR OBSTACLES WILL BE ALLOWED 10' IN FRONT OF, 5' ON THE SIDES, AND 7' TO THE REAR OF THE ELECTRICAL TRANSFORMER.
- 4. ALL RETAINER GLANDS WHEN REQUIRED TO RESTRAIN VALVES, FITTINGS, HYDRANTS, AND PIPE JOINTS SHALL BE MECHANICAL JOINT MEDGE ACTION TYPE MEGALUG 1100 SERIES AS MANUFACTURED BY EBBA IRON, INC. OR UNI-FLANGE BLOCKBUSTER 1400 SERIES AS MANUFACTURED BY FORD METER BOX CO. AND SHALL BE FOR USE ON DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51. FOR NOMINAL PIPE SIZES 3" THROUGH 48".
- 5. EXISTING DUCTILE IRON SYSTEMS FOR RESTRAINING PUSH-ON PIPE BELLS SHALL BE MEGALUG SERIES 1100HD OR FORD SERIES 1300.
- 6. EXISTING DUCTILE IRON SYSTEMS REQUIRING RESTRAINT SHALL BE MEGALUG SERIES 1100SD (SPLIT MEGALUG) FOR MECHANICAL JOINTS.
- 7. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5-05.
- 8. A SET OF AS-BUILT RECORD DRAWING SHALL BE GIVEN TO THE CITY OF NAPERVILLE UPON COMPLETION OF CONSTRUCTION. THE RECORD DRAWING SHALL BE IDENTICAL TO THE ORIGINAL DRAWING. EXISTING STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VALVES, LINESTOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE VENTS (WEADED FROM DOWNSTREAM), AND SANITARY SERVICE VENTS SHALL BE IDENTIFIED ON ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS.
- 9. ALL SANITARY SEWER PIPING SHALL BE PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241 WITH THE FOLLOWING REQUIREMENTS: 9.1 TO 12" SHALL BE INJECTION MOULDED FITTINGS MEETING ASTM D-2241. GREATER THAN 12" SHALL BE FABRICATED FITTINGS MEETING ASTM D-2241 OR 9305. MINIMUM PRESSURE RATING SHALL BE 150 PSI.
- 10. THE VALVES LESS THAN 16" SHALL BE STANDARD PATTERN, GATE VALVES AND SHALL HAVE THE NAME OR MARK OF THE MANUFACTURER, SIZE AND WORKING PRESSURE PLAINLY CAST IN RAISED LETTERS ON THE VALVE BODY. VALVES MAY BE PROVIDED FROM ONE OF THE FOLLOWING MANUFACTURERS: AMERICAN, LUG, WATERLOUS OR KENNEDY.
- 11. STAINLESS STEEL NUTS, BOLTS, 7/16" BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATION. THIS WOULD APPLY TO HYDRANTS, TAPPING DEVICES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURED OR IN VALVE VALVES. MECHANICAL JOINTS AND FLANGES SHALL BE STAINLESS STEEL. AN ANTI-SEIZE COMPOUND SHALL BE APPLIED TO ALL NUTS AND BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIR WITH FIELD APPLIED APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEIZ APPROVED EQUAL.
- 12. THE CONTRACTOR SHALL ROTATE AND/OR ADJUST ANY EXISTING AND/OR NEW HYDRANT TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC UTILITIES OF THE CITY OF N

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DEPARTMENT OF PUBLIC UTILITIES - ELECTRIC GENERAL NOTES

- THE DEVELOPER SHALL SUPPLY THE DPU-E ENGINEER WITH CATALOG CUTS FOR ALL CT/METER EQUIPMENT (INCLUDING BUT NOT LIMITED TO METER SOCKETS, FT CABINET, CT CABINET, DISCONNECT CABINET) AND TRANSFORMER PAD/VAULT. THE CATALOG CUTS SHALL BE APPROVED BY DPU-E PRIOR TO PURCHASING.
THE CT/METER CABINET SHALL BE TOP FED.
CT/METER EQUIPMENT ARE LONG LEAD TIME ITEMS AND DPU-E SHALL NOT BE HELD RESPONSIBLE FOR DELAYS RESULTING FROM NON-COMPLIANT CT/METER EQUIPMENT.
PLEASE PROVIDE NAME AND CONTACT INFORMATION FOR ELECTRICAL CONTRACTOR FOR THIS PROJECT.
DPU-E WILL PROVIDE, INSTALL, AND MAINTAIN THE TRANSFORMERS, ALL PRIMARY (15KV) CABLE AND CONDUIT, AND THE METERS AND INSTRUMENT TRANSFORMERS. DPU-E WILL ALSO MAKE THE FINAL CONNECTIONS IN THE TRANSFORMERS ONCE THE INSPECTION IS COMPLETE AND THE BUILDING IS READY TO BE ENERGIZED.
THE DEVELOPER IS RESPONSIBLE FOR PROVIDING, INSTALLING, AND MAINTAINING THE TRANSFORMER PAD/VAULT, ALL SERVICE LATERAL (480V) CABLE AND CONDUIT, THE SERVICE ENTRANCE EQUIPMENT INCLUDING THE CT/METER CABINET AND ALL BANKED METER SOCKETS.
THE DEVELOPER SHALL COORDINATE SITE CONSTRUCTION WITH DPU-E TO ALLOW ELECTRIC FACILITIES TO BE INSTALLED PRIOR PAVING AND CURBING. DPU-E REQUIRES 30 WORKING DAYS ADVANCE WRITTEN NOTICE PRIOR TO PAVEMENT INSTALLATION TO ALLOW FOR THE INSTALLATION OF ELECTRIC FACILITIES. GRADE ELEVATION MUST BE WITHIN 4" OF FINAL GRADES BEFORE ELECTRIC FACILITIES CAN BE INSTALLED.
ELECTRIC FACILITIES SHALL BE INSTALLED PURSUANT TO SECTION 8-10C-3 OF THE CITY OF NAPERVILLE MUNICIPAL CODE, WHICH REQUIRES A CONSTRUCTION FEE PAYMENT FOR INSTALLATION OF ELECTRIC FACILITIES.
AT ALL TIMES, THE CUSTOMER SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING A SUITABLE APPROACH TO THE METER LOCATION, WITH NO OBSTRUCTIONS WITHIN FOUR (4) FEET OF THE FRONT AND TWO (2) FEET OF THE SIDES OF THE METER. PER NAPERVILLE SERVICE RULES AND POLICIES 22.2.F.
CLEARANCE TO TRANSFORMER PAD SHALL BE 5' FROM ALL SIDES, 10' FROM FRONT, AND THE AREA ABOVE MUST BE COMPLETELY CLEAR OF OBSTRUCTION, NO TREES, SHRUBS, OR OTHER OBSTACLES WILL BE ALLOWED WITHIN THIS AREA. TRANSFORMER PAD SHALL MAINTAIN MINIMUM CLEARANCE OF 20' FROM EGRESS POINTS. PER DPU-E SPECIFICATIONS C10-2130 AND C30-0016.
TO HAVE AN EXISTING SERVICE DISCONNECTED CALL THE CITY DISPATCH OFFICE AT 630-420-6187. PLEASE ALLOW AT LEAST 24 HOURS NOTICE. METERS AND METER SEALS ARE TO BE REMOVED ONLY BY DPU-E PERSONNEL. THE LOCATION AND TYPE OF NEW OR REPLACEMENT METER RELATED EQUIPMENT MUST BE PRE-APPROVED IN WRITING BY DPU-E. AN ELECTRIC SERVICE MUST BE INSPECTED BY THE DEVELOPMENT SERVICES TEAM ELECTRICAL INSPECTOR PRIOR TO CONNECTION.
LABEL ALL METER SOCKETS WITH THE COMPLETE ADDRESS IN 1" LETTERS USING PERMANENT STICKERS. IN MULTIPLE METER BANKS, THE COMPLETE ADDRESS MAY BE ON THE DISCONNECT SWITCH AND THE SUITE NUMBERS ON THE METER SOCKETS. THE ELECTRICAL SERVICE EQUIPMENT WILL NOT PASS INSPECTION WITHOUT APPROPRIATE ADDRESS LABELING.
APPROVAL OF METERING EQUIPMENT BY DPU-E DOES NOT REMOVE YOUR RESPONSIBILITY TO COMPLY WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE AS ADOPTED BY THE CITY OF NAPERVILLE. DETERMINATION OF COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE WILL BE MADE BY THE TRANSPORTATION, ENGINEERING AND DEVELOPMENT DEPARTMENT.
A CUSTOMER'S GROUNDING CONDUCTOR SHALL NOT BE CONNECTED TO DPU-E DISTRIBUTION EQUIPMENT.
DPU-E WILL INSTALL AND ENERGIZE ALL METERS IN A MULTIPLE METER BANK AT ONE TIME, PROVIDED ALL METER SOCKETS PASS INSPECTION. IN THE EVENT OF AN INCOMPLETE INSTALLATION, ONLY THE INSPECTED AND APPROVED EQUIPMENT SHALL BE ENERGIZED AND A METER INSTALLED. INDIVIDUAL TENANT PERMITS WILL BE REQUIRED FOR INSTALLATION OF THE OTHER METERS IN THE METER BANK.

CITY OF NAPERVILLE TRANSPORTATION, ENGINEERING AND DEVELOPMENT BUSINESS GROUP STANDARD CONSTRUCTION PLAN NOTES FOR DEVELOPMENT PROJECTS

CITY OF NAPERVILLE GENERAL NOTES

- THE OWNER OR THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF NAPERVILLE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION).
- ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
- THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.
- PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.
- THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF NAPERVILLE PRIOR TO ANY WORK BEING STARTED. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF NAPERVILLE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.
- A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6100 OPTION 1) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE CITY OF NAPERVILLE UTILITIES DEPARTMENT AT 630-420-6100. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF ALL UTILITIES.
- THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630) 420-6100 OPTION 1 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00PM DAILY) ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).
- RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
- FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND ALL REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE NAPERVILLE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE NAPERVILLE MUNICIPAL CODE.
- NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
- DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
- DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE RAKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.

GEOMETRIC AND PAVING NOTES

- THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURBS AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.
- ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.
- THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.
- THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK) UP TO THE STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.
- WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE EXISTING ADJACENT SIDEWALK, DRIVEWAY, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS CORRECT.
- ALL PAVEMENT PATCHES WITHIN THE PUBLIC RIGHT-OF-WAY MUST CONFORM TO CITY STANDARDS. REFERENCE NAPERVILLE STANDARD DETAILS 590.12 AND 590.13.

STORM SEWER NOTES

- THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS, WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED:
 - REINFORCED CONCRETE PIPE (RCP) - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATION C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT.
 - NON-REINFORCED CONCRETE PIPE - NON-REINFORCED CONCRETE PIPE SHALL BE ALLOWED FOR PIPES WITH A 10 INCH OR SMALLER DIAMETER. NON-REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 14, CLASS 3. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATION C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY ENGINEER. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433.
 - DUCTILE IRON PIPE (DIP) - DUCTILE IRON PIPE SHALL CONFORM TO ANSI A 21.51 (AWWA C-151), CLASS 3. THICKNESS DESIGNED PER ANSI A 21.50 (AWWA C-150). TAP (SEAL) COATED AND GEMENT LINED PER ANSI A 21.4 (AWWA C-104), WITH MECHANICAL OR RUBBER RING (SLIP SEAL OR PUSH ON) JOINTS. ALL DUCTILE IRON PIPE SHALL BE WRAPPED WITH POLYETHYLENE.
 - POLYVINYL CHLORIDE PIPE (PVC) - POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D 3034, TYPE PSN. THE MINIMUM STANDARD DIMENSION RATIO (SDR) SHALL BE 26. THE PIPE SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454-C AND SHALL HAVE A MINIMUM PIPE STIFFNESS OF FORTY-SIX (46) LBS. PER INCH (317 KPA). JOINTS FOR PVC PIPE SHALL BE FLEXIBLE ELASTOMERIC SEALS PER ASTM D 3212.
 - HIGH DENSITY POLYETHYLENE PIPE (HDPE) - HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252 AND M 294. PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 32442000 AS DEFINED AND DESCRIBED IN ASTM D 3350. RUBBER GASKET JOINTS SHALL BE USED.
 - FULLY GALVANIZED CORRUGATED STEEL PIPE - FULLY GALVANIZED CORRUGATED STEEL PIPE MAY BE USED FOR RESIDENTIAL DRIVEWAY CROSSINGS ONLY WHEN A DITCH SECTION IS PRESENT. THE MINIMUM CULVERT SIZE IS 12" DIAMETER.
- BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE, 1/4 INCH TO 1 INCH IN SIZE, AS A MINIMUM. THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF DOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS.
- BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS, CASCADE CSS, ROMAX LSS, FENCO, INC. SHEAR RING, OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, CLASS, AND DATE OF ISSUE SHALL BE CLEARLY IDENTIFIED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BILLS OF LADING, OTHER QUALITY ASSURANCE DOCUMENTATION WHEN REQUESTED BY THE CITY ENGINEER. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL.
- MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER.
- MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED EQUAL) WITH THE WORD "STORM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE

- MANHOLE COVER.
- MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE, TRUE TO VERTICAL ALIGNMENT. IN ACCORDANCE WITH THE NAPERVILLE STANDARD DETAILS, STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 1/2 INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.
- CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER-TIGHT AT ALL POINTS BELOW GRADE. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY ENGINEER. CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES AND GRATES SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT.
- PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, NEEHAH R-2502, OR APPROVED EQUAL FOR OPEN GRATES. EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE A SOLID COVER, NEEHAH R-1772, OR APPROVED EQUAL FOR CLOSE LIDS.
- BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, NEEHAH R-3278-A, OR APPROVED EQUAL.
- DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, NEEHAH R-3225-L, OR APPROVED EQUAL.
- MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, NEEHAH R-3501-P, OR APPROVED EQUAL.
- NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, NEEHAH R-4340-B, OR APPROVED EQUAL. ALTERNATELY, IN AREAS WHERE THERE IS THE LIKELIHOOD OF PEDESTRIAN TRAFFIC, EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED.
- THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT, AND SHALL BE OF LEAK PROOF CONSTRUCTION, CAPABLE OF WITHSTANDING THE ANTICIPATED LOADINGS. SEE TABLE 200-1 IN THE NAPERVILLE STANDARD SPECIFICATIONS FOR THE MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING DIAMETERS.
THE STEEL CASING PIPE SHALL HAVE MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL MEET THE REQUIREMENTS OF A139/A139M-04 (OR LATEST EDITION), GRADE B. RING DEFLECTION SHALL NOT EXCEED 2% OF THE NOMINAL DIAMETER. THE STEEL CASING PIPE SHALL BE DELIVERED TO THE JOBSITE WITH BEVEL ENDS TO FACILITATE FIELD WELDING.
- ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS. ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LEFT HOLES TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE STORM SEWER AND SANITARY SEWER BE ALLOWED.
- FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2-INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1-FOOT BY 1-FOOT SECTION OF UNDERGROUND FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIRED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFLOWING.
- ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH NONSHRINKING HYDRAULIC CEMENT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RING.
WHEN ADJUSTMENTS ARE NECESSARY, NO MORE THAN 12 INCHES OF VERTICAL ADJUSTMENT MAY BE MADE USING THE MINIMUM PRACTICAL NUMBER OF INDIVIDUAL RINGS.
ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY ETHYLENE POLYESTER, EXPANDED POLYPROPYLENE (EPP) OR OTHER MATERIALS APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED. TAPERED ADJUSTING RINGS SHALL BE REQUIRED WHEN THE FRAME WILL NEED TO MATCH THE SLOPE OF THE ROADWAY.
A RESILIENT, FLEXIBLE, NON-HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL, CONSIST 102 B OR APPROVED EQUAL, SHALL BE USED BETWEEN THE CONE OR TOP BARREL SECTION OF THE STRUCTURE AND THE ADJUSTING RINGS. A THICK BEAD OF NON-HARDENING ELASTOMERIC JOINT SEALANT CONFORMING TO ASTM C-920, TYPE S, GRADE NS, SHALL BE APPLIED BETWEEN ALL INDIVIDUAL RINGS, AND BETWEEN THE ADJUSTING RINGS AND THE FRAME. THE SEALANT OR MASTIC MATERIAL SHALL BE APPLIED IN SUCH A MANNER THAT NO SURFACE WATER OR GROUND WATER INFLOW CAN ENTER THE STRUCTURE.

EROSION CONTROL AND DRAINAGE NOTES

- ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.
- ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.
- ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. STRAW BALES SHALL NOT BE USED.
- STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED.
- ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH OR GREATER RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.

EROSION CONTROL AND DRAINAGE NPDES NOTES

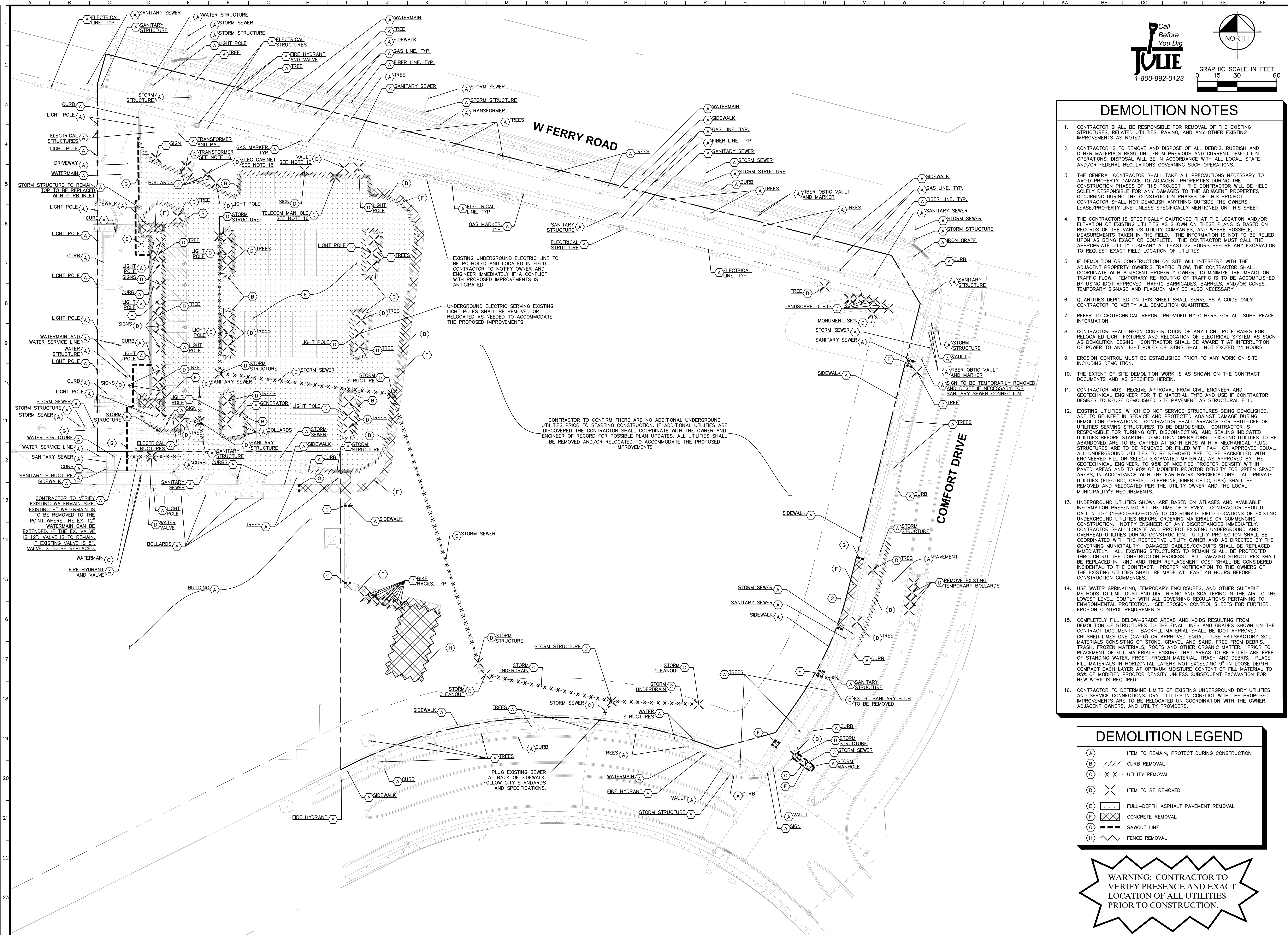
- IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNER TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.

TRAFFIC CONTROL AND PROTECTION NOTES

- ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. TRAFFIC CONTROL MUST BE PROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC FLOW. THIS INCLUDES, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND CONSTRUCTION VEHICLES ENTERING AND EXITING THE PUBLIC ROADWAY. ALL TRAFFIC CONTROL SET-UPS MAY BE INSPECTED BY THE CITY OF NAPERVILLE TO ENSURE THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.
- PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRIANS SO THAT THEY MAY AVOID THE WORK ZONE. SAID PEDESTRIAN DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE CITY IN WRITING, PRIOR TO THE COMMENCEMENT OF THE WORK.
- THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF VEHICLES AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY ENGINEER.
- ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.
- LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-8AM AND 3PM-7PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. LANE CLOSURES ON ARTERIAL STREETS ARE NOT PERMITTED BETWEEN 7AM AND 7PM ON WEEKENDS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. ARTERIAL ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS AS DESIGNATED ON THE CITY'S MASTER THROUGHFARE PLAN, LATEST EDITION.
- ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROW BOARD AS PART OF THE TRAFFIC CONTROL.
- AT THE END OF EACH DAY OF WORK, THE ROADWAY MUST BE COMPLETELY REOPENED TO TRAFFIC. ANY OPEN HOLES MUST BE PLATED OR COLD PATCHED; THE CITY WILL NOT ALLOW THE HOLES TO BE FILLED WITH GRAVEL.

SCALE: AS NOTED	DESIGNED BY: OTL	DRAWN BY: ARG	CHECKED BY: TRE
DESIGNED BY: OTL			
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CHECKED BY: TRE			
CITY COMMENTS			
REVISIONS			
DATE	05/05/26	TRE	BY
DATE	03/09/26	TRE	BY
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Willow Bridge			
CITY OF NAPERVILLE NOTES			
CITYGATE II 2160 CITYGATE LANE NAPERVILLE, IL 60563			
ORIGINAL ISSUE: 12/19/2025			
KHA PROJECT NO. 268930001			
SHEET NUMBER			
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Drawing name: K:\CHS_DEV\268930001_Willow_Bridge_CityGate Phase 2_Naperville_IL_V2_Design\CAD\PlanSheets\CI.0 - EX. CONDITIONS & DEMO PLAN.dwg C1.0 May 05, 2026 8:39am by: OdonLewis
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Call Before You Dig
JULIE
 1-800-892-0123

GRAPHIC SCALE IN FEET
 0 15 30 60

NORTH

- ### DEMOLITION NOTES
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.
 - CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
 - THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR SHALL NOT DEMOLISH ANYTHING OUTSIDE THE OWNERS LEASE/PROPERTY LINE UNLESS SPECIFICALLY MENTIONED ON THIS SHEET.
 - 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 UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
 - IF DEMOLITION OR CONSTRUCTION ON SITE WILL INTERFERE WITH THE ADJACENT PROPERTY OWNER'S TRAFFIC FLOW, THE CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNER, AND WHERE POSSIBLE, TEMPORARY RE-ROUTING OF TRAFFIC IS TO BE ACCOMPLISHED BY USING IDOT APPROVED TRAFFIC BARRICADES, BARRELS, AND/OR CONES. TEMPORARY SIGNAGE AND FLAGMEN MAY BE ALSO NECESSARY.
 - QUANTITIES DEPICTED ON THIS SHEET SHALL SERVE AS A GUIDE ONLY. CONTRACTOR TO VERIFY ALL DEMOLITION QUANTITIES.
 - REFER TO GEOTECHNICAL REPORT PROVIDED BY OTHERS FOR ALL SUBSURFACE INFORMATION.
 - CONTRACTOR SHALL BEGIN CONSTRUCTION OF ANY LIGHT POLE BASES FOR RELOCATED LIGHT FIXTURES AND RELOCATION OF ELECTRICAL SYSTEM AS SOON AS DEMOLITION BEGINS. CONTRACTOR SHALL BE AWARE THAT INTERRUPTION OF POWER TO ANY LIGHT POLES OR SIGNS SHALL NOT EXCEED 24 HOURS.
 - EROSION CONTROL MUST BE ESTABLISHED PRIOR TO ANY WORK ON SITE INCLUDING DEMOLITION.
 - THE EXTENT OF SITE DEMOLITION WORK IS AS SHOWN ON THE CONTRACT DOCUMENTS AND AS SPECIFIED HEREIN.
 - CONTRACTOR MUST RECEIVE APPROVAL FROM CIVIL ENGINEER AND GEOTECHNICAL ENGINEER FOR THE MATERIAL TYPE AND USE IF CONTRACTOR DESIRES TO REUSE DEMOLISHED SITE PAVEMENT AS STRUCTURAL FILL.
 - EXISTING UTILITIES, WHICH DO NOT SERVICE STRUCTURES BEING DEMOLISHED, ARE TO BE KEPT IN SERVICE AND PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SHUT-OFF OF UTILITIES SERVING STRUCTURES TO BE DEMOLISHED. CONTRACTOR IS RESPONSIBLE FOR TURNING OFF, DISCONNECTING, AND SEALING INDICATED UTILITIES BEFORE STARTING DEMOLITION OPERATIONS. EXISTING UTILITIES TO BE ABANDONED ARE TO BE CAPPED AT BOTH ENDS WITH A MECHANICAL PLUG. STRUCTURES ARE TO BE REMOVED OR FILLED WITH FA-1 OR APPROVED EQUAL. ALL UNDERGROUND UTILITIES TO BE REMOVED ARE TO BE BACKFILLED WITH ENGINEERED FILL OR SELECT EXCAVATED MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER, TO 95% OF MODIFIED PROCTOR DENSITY WITHIN PAVED AREAS AND TO 90% OF MODIFIED PROCTOR DENSITY FOR GREEN SPACE AREAS, IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS. ALL PRIVATE UTILITIES (ELECTRIC, CABLE, TELEPHONE, FIBER OPTIC, GAS) SHALL BE REMOVED AND RELOCATED PER THE UTILITY OWNER AND THE LOCAL MUNICIPALITY'S REQUIREMENTS.
 - UNDERGROUND UTILITIES SHOWN ARE BASED ON ATLASSES AND AVAILABLE INFORMATION PRESENTED AT THE TIME OF SURVEY. CONTRACTOR SHOULD CALL "JULIE" (1-800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UNDERGROUND AND OVERHEAD UTILITIES WITH THE EARTHWORK SPECIFICATIONS. ALL DAMAGED UTILITIES SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY OWNER AND AS DIRECTED BY THE GOVERNING MUNICIPALITY. DAMAGED CABLES/CONDUITS SHALL BE REPLACED IMMEDIATELY. ALL EXISTING STRUCTURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS. ALL DAMAGED STRUCTURES SHALL BE REPLACED IN-KIND AND THEIR REPLACEMENT COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. PROPER NOTIFICATION TO THE OWNERS OF THE EXISTING UTILITIES SHALL BE MADE AT LEAST 48 HOURS BEFORE CONSTRUCTION COMMENCES.
 - USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN THE AIR TO THE LOWEST LEVEL. COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. SEE EROSION CONTROL SHEETS FOR FURTHER EROSION CONTROL REQUIREMENTS.
 - COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES TO THE FINAL LINES AND GRADES SHOWN ON THE CONTRACT DOCUMENTS. BACKFILL MATERIAL SHALL BE IDOT APPROVED CRUSHED Limestone (CA-6) OR APPROVED EQUAL. USE SATISFACTORY SOIL MATERIALS CONSISTING OF STONE, GRAVEL AND SAND, FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. PRIOR TO PLACEMENT OF FILL MATERIAL, ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH AND DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 9" IN LOOSE DEPTH. COMPACT EACH LAYER AT OPTIMUM MOISTURE CONTENT OF FILL MATERIAL TO 95% OF MODIFIED PROCTOR DENSITY UNLESS SUBSEQUENT EXCAVATION FOR NEW WORK IS REQUIRED.
 - CONTRACTOR TO DETERMINE LIMITS OF EXISTING UNDERGROUND DRY UTILITIES AND SERVICE CONNECTIONS. DRY UTILITIES IN CONFLICT WITH THE PROPOSED IMPROVEMENTS ARE TO BE RELOCATED IN COORDINATION WITH THE OWNER, ADJACENT OWNERS, AND UTILITY PROVIDERS.

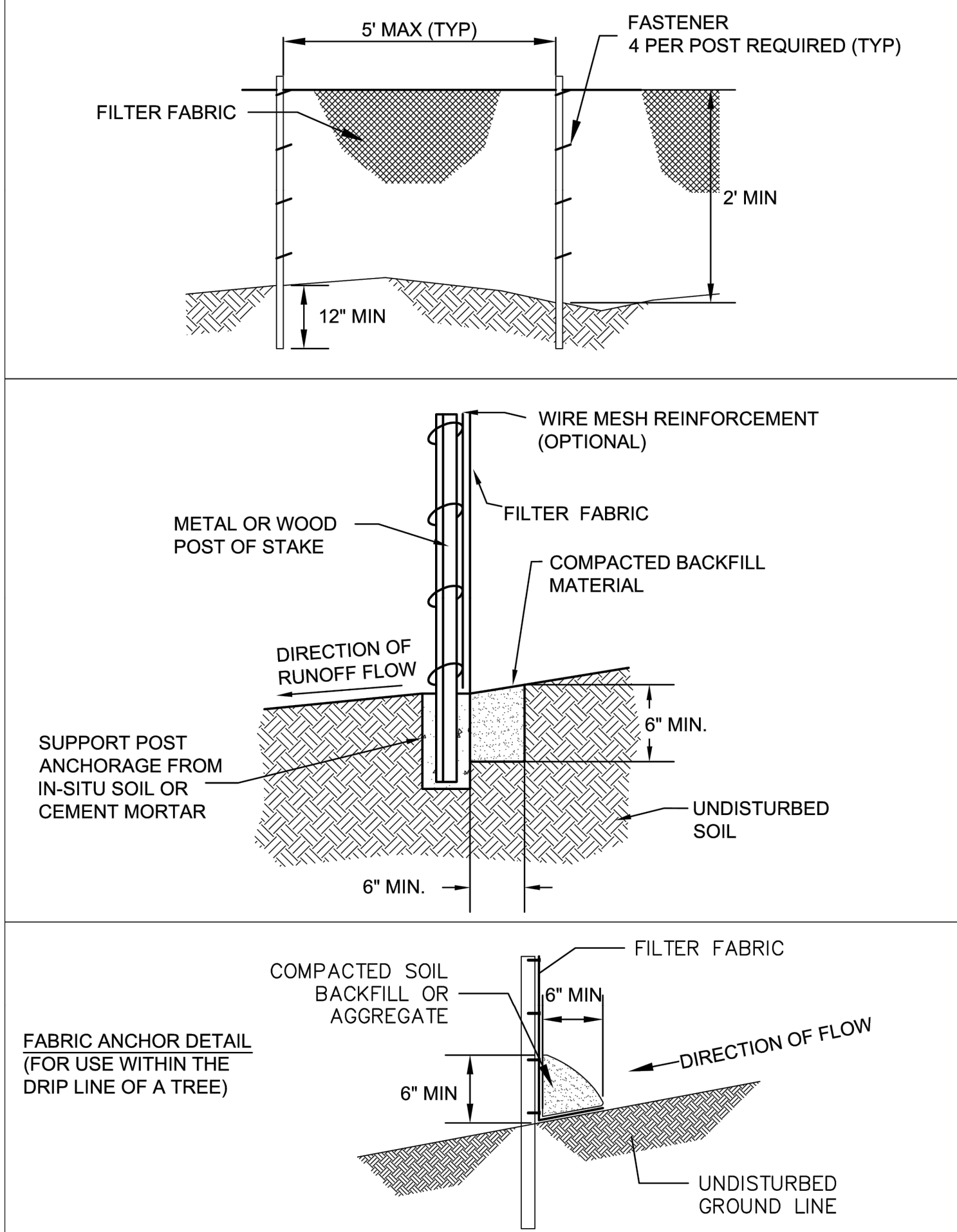
DEMOLITION LEGEND

(A)	ITEM TO REMAIN, PROTECT DURING CONSTRUCTION
(B)	CURB REMOVAL
(C)	UTILITY REMOVAL
(D)	ITEM TO BE REMOVED
(E)	FULL-DEPTH ASPHALT PAVEMENT REMOVAL
(F)	CONCRETE REMOVAL
(G)	SAWCUT LINE
(H)	FENCE REMOVAL

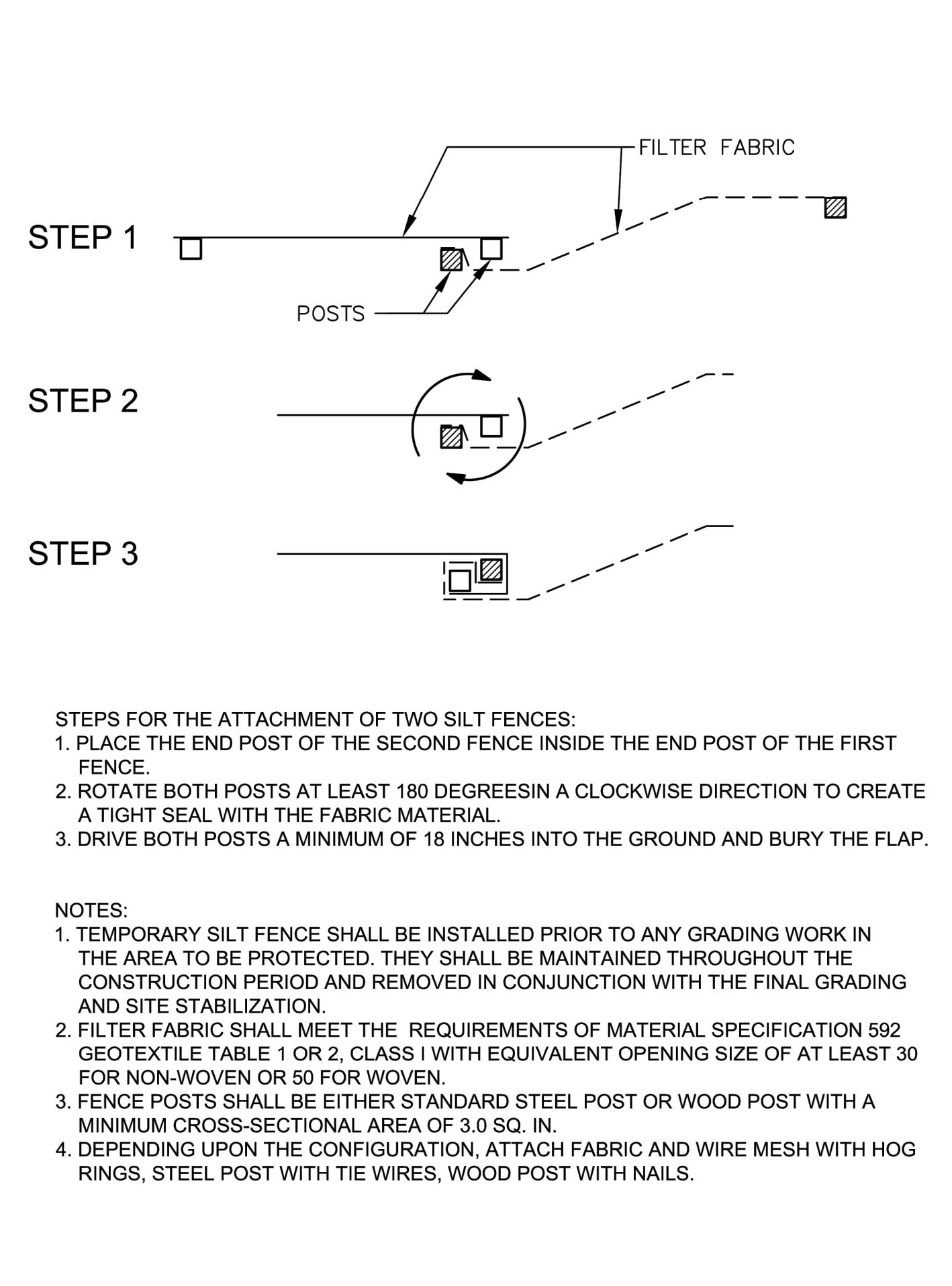
WARNING: CONTRACTOR TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

Kimley-Horn <small>© 2026 KIMLEY-HORN AND ASSOCIATES, INC. 4201 WINFIELD ROAD, SUITE 600 NAPERVILLE, IL 60563 PHONE: 630-487-5500 WWW.KIMLEY-HORN.COM</small>	Willow Bridge	EXISTING CONDITIONS & DEMO PLAN	CITYGATE II 2180 CITYGATE LANE NAPERVILLE, IL 60563	ORIGINAL ISSUE: 12/19/2025 KHA PROJECT NO. 268930001 SHEET NUMBER C1.0
SCALE: DESIGNED BY: OTL DRAWN BY: ARG CHECKED BY: TRE	AS NOTED DESIGNED BY: OTL DRAWN BY: ARG CHECKED BY: TRE	CITY COMMENTS 03/09/26 TRE	REVISIONS DATE BY	DATE BY

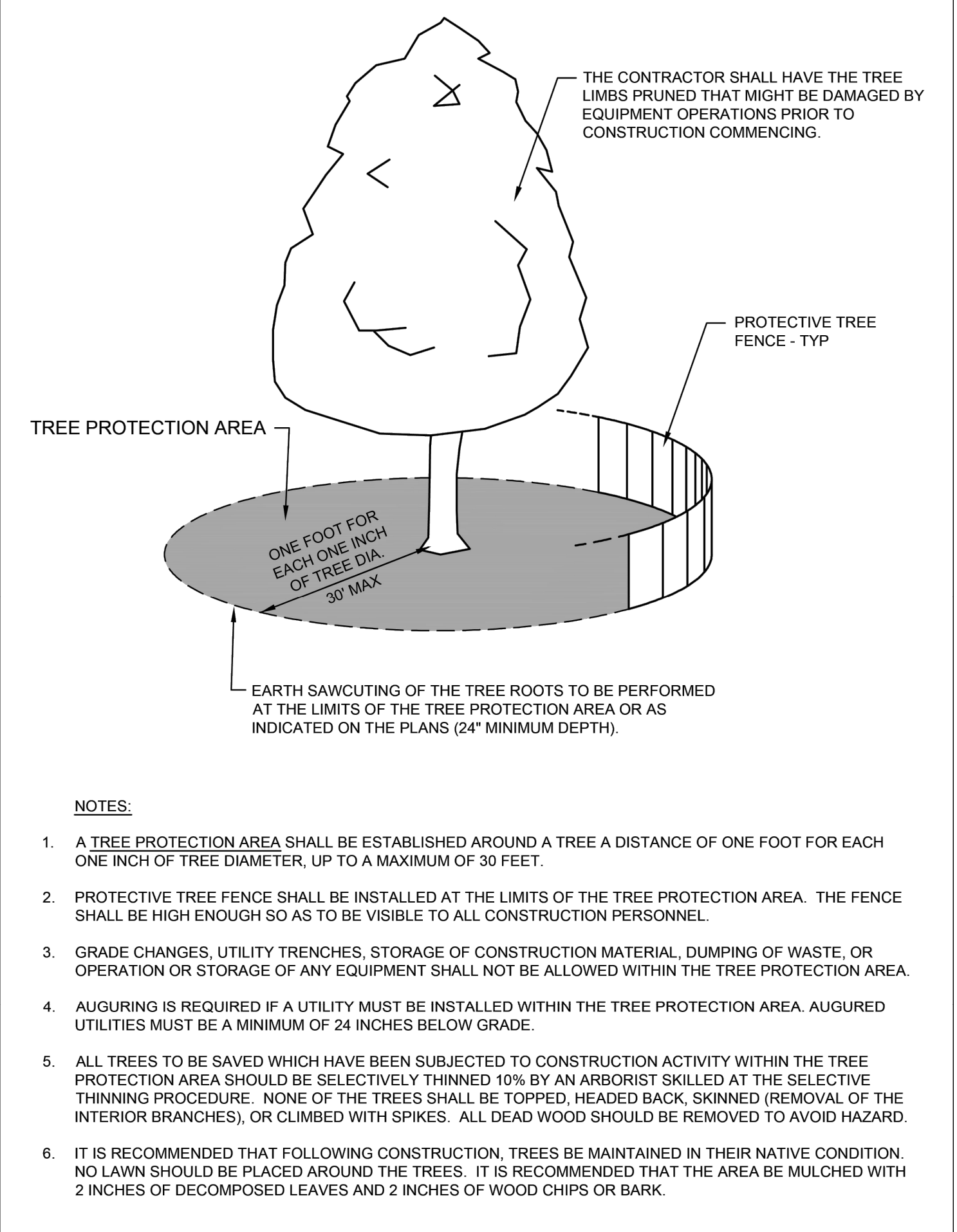
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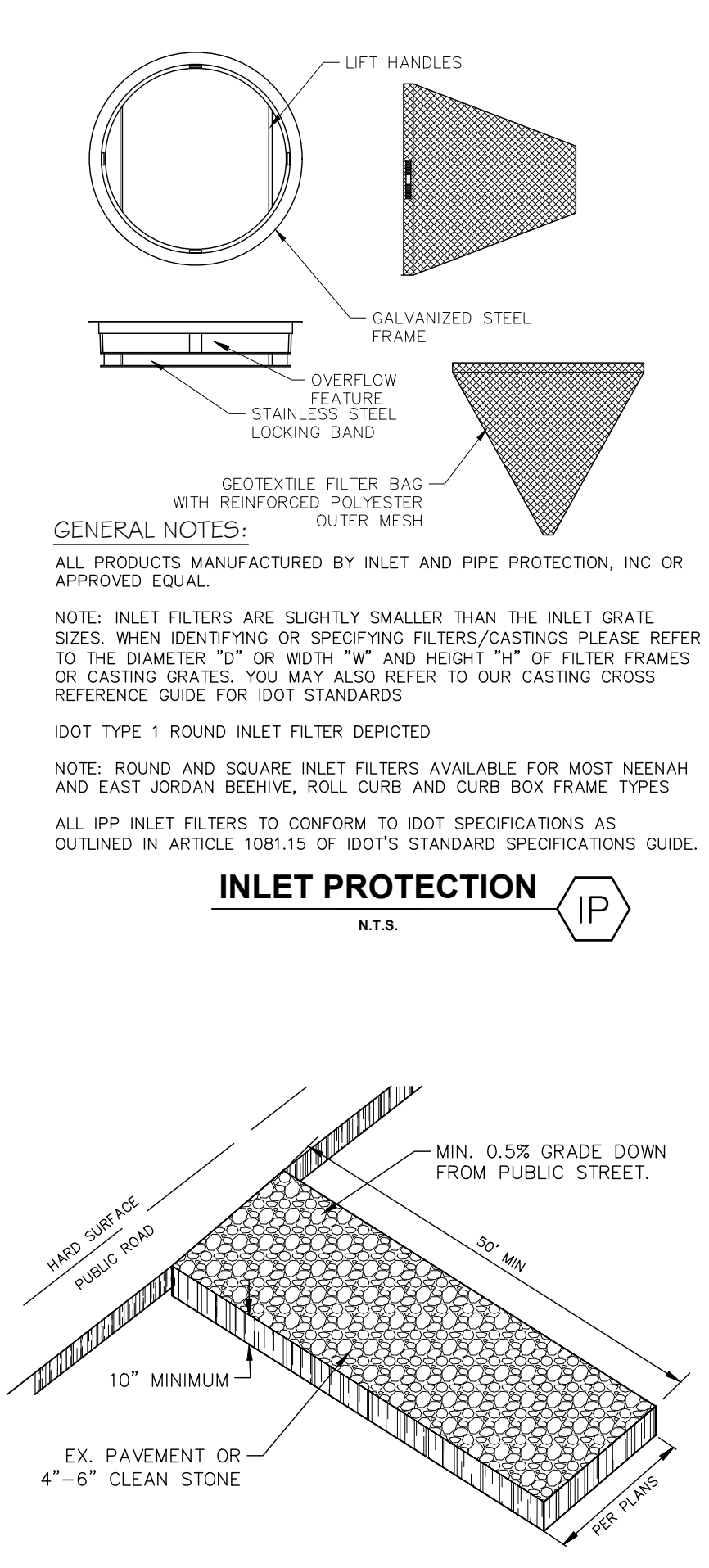
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TEMPORARY EROSION CONTROL MEASURE - SILT FENCE
 REVISED: 01/01/2013 SHEET 1 OF 2
790.03



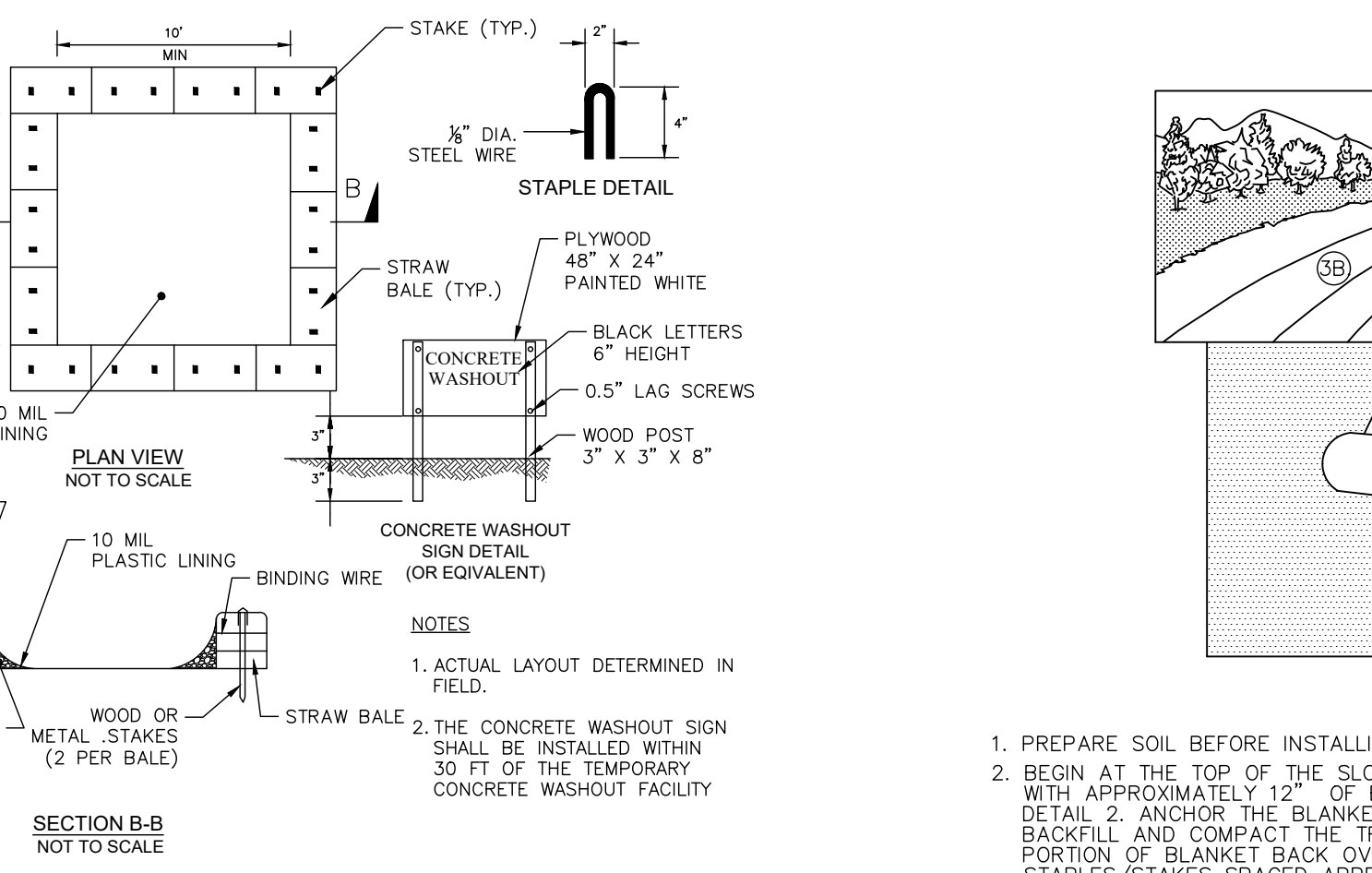
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TEMPORARY EROSION CONTROL MEASURE - SILT FENCE
 REVISED: 01/01/2013 SHEET 2 OF 2
790.03



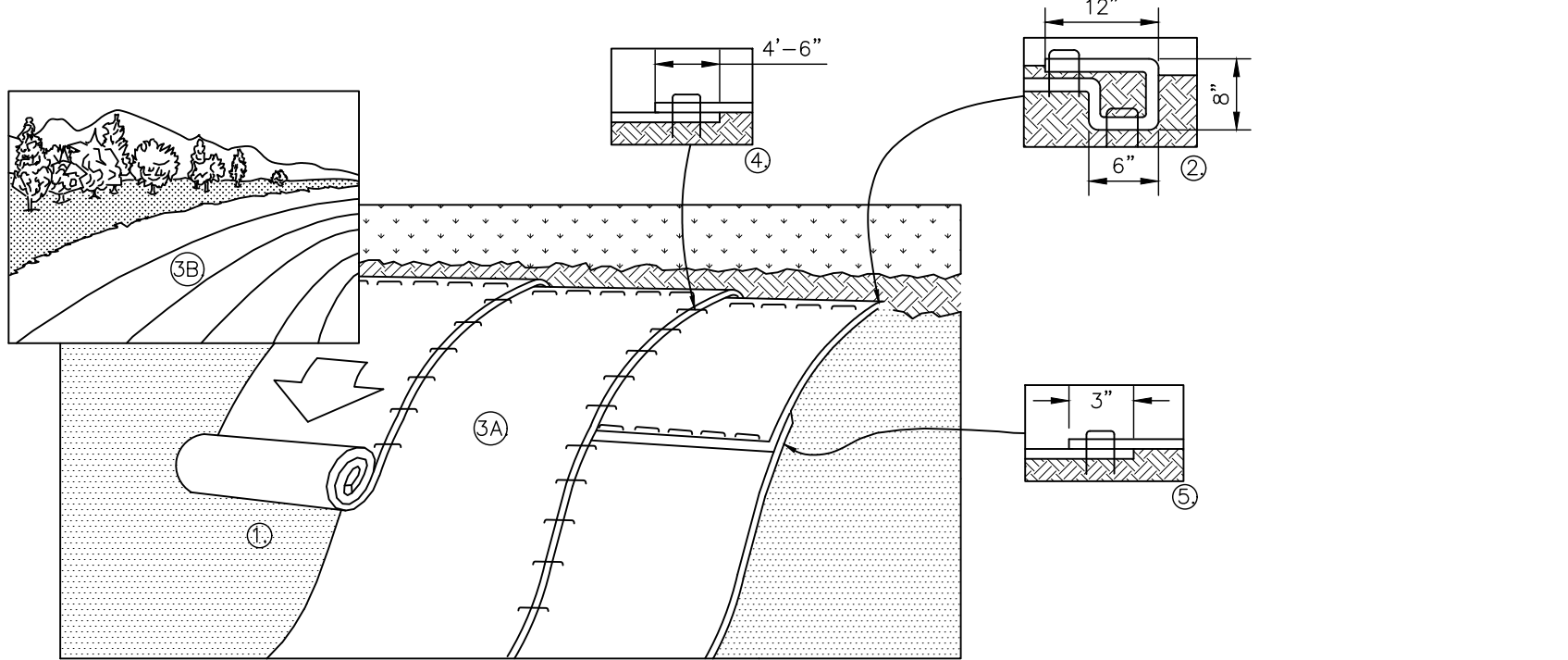
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TREE PROTECTION
 REVISED: 08/01/2018 SHEET 1 OF 1
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City of Naperville STANDARD DETAIL
CONSTRUCTION ENTRANCE
 REVISED: 08/01/2018 SHEET 1 OF 1
790.10



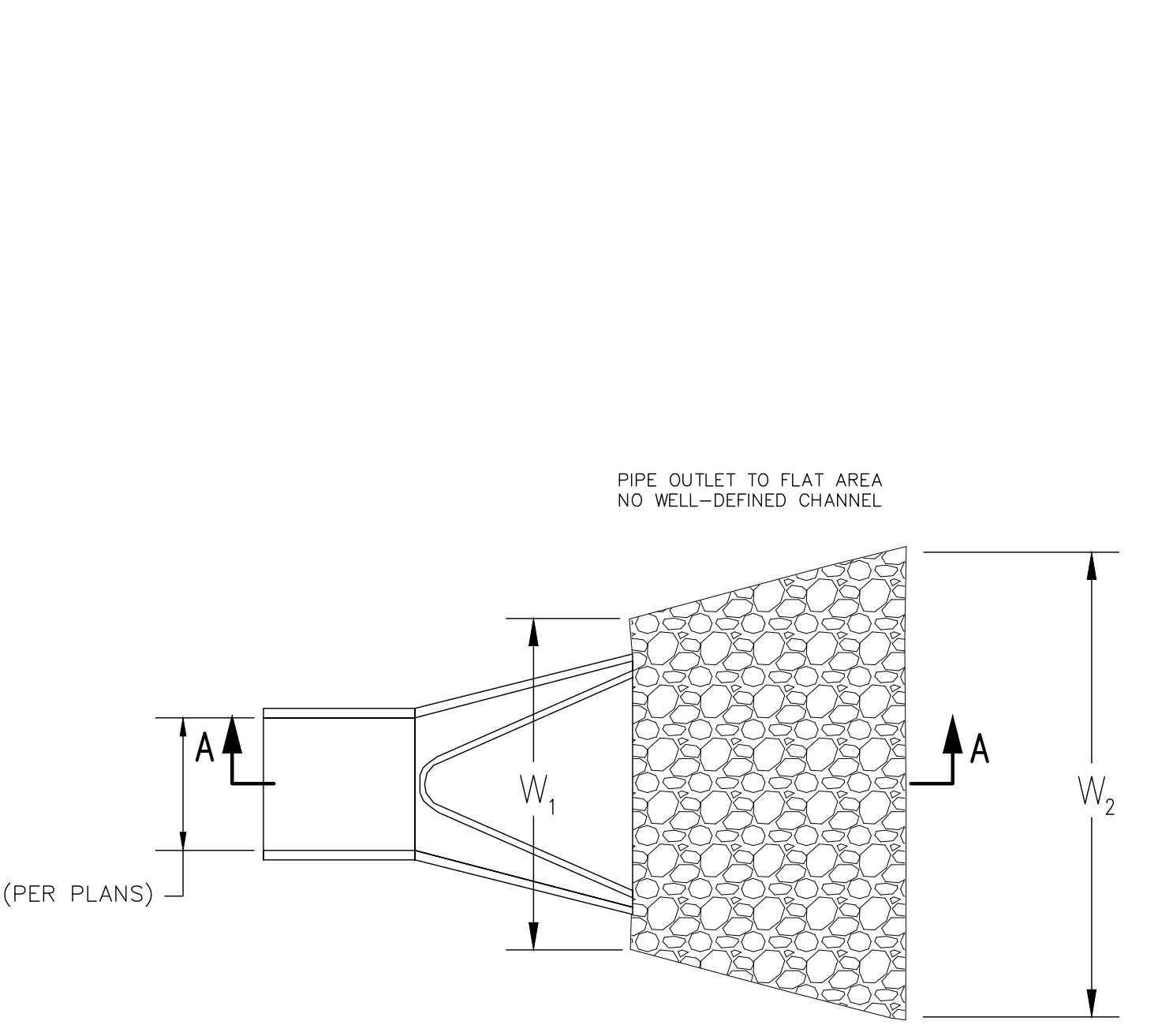
CONCRETE WASHOUT
 N.T.S.



EROSION CONTROL BLANKET (SLOPE INSTALLATION)
 N.T.S.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A			*	*					
DORMANT SEEDING	B									B		
TEMPORARY SEEDING			C				D					
SODDING			E									
MULCHING	F		**									

- SEEDING CHART**
 A KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE
 B KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE
 C SPRING OATS 100 LBS/ACRE
 D WHEAT OR CEREAL RYE 150 LBS/ACRE
 E SOD
 F STRAW MULCH 2 TONS/ACRE
 * WATERING NEEDED DURING JUNE AND JULY
 ** WATERING NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD



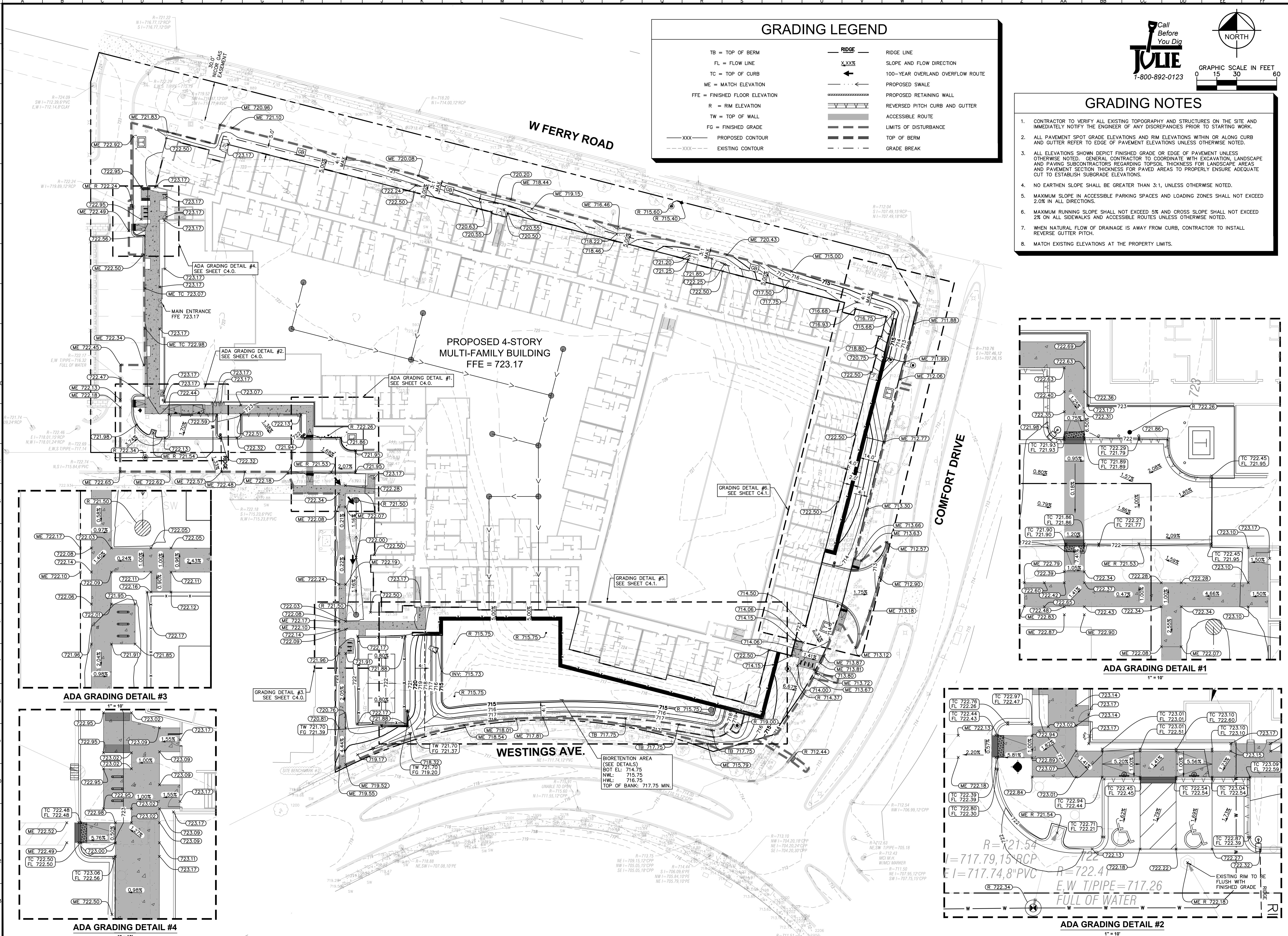
RIP RAP DETAIL OUTLET PROTECTION
 N.T.S.

INLET PIPE SIZE d (IN)	LENGTH OF APRON L _a (FT)	ROCK GRADATION (IDOT)	WIDTH OF APRON U/S FACE W ₁ (FT)	WIDTH OF APRON D/S FACE W ₂ (FT)	DEPTH OF RIPRAP d (IN)
12	12	RR-3	3.00	13.00	15
15	12	RR-3	3.75	13.25	15
18	16	RR-4	4.50	17.50	20
21	16	RR-4	5.25	17.75	20
24	20	RR-4	6.00	22.00	20
27	20	RR-4	6.75	22.50	20
30	22	RR-4	7.50	24.50	20
36	24	RR-5	9.00	27.00	28
42	24	RR-5	10.50	27.50	30
48	28	RR-6	12.00	32.00	32
54	28	RR-6	13.50	32.50	32
60	36	RR-6	15.00	41.00	32
72	44	RR-6	18.00	50.00	32

Filter Sock Sediment Control
 N.T.S.

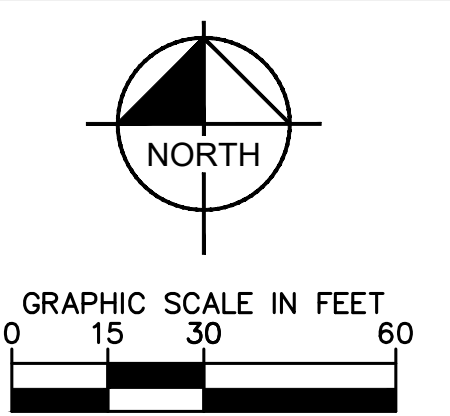
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 SCALE: AS NOTED
 DESIGNED BY: OTL
 DRAWN BY: ARG
 CHECKED BY: TRE
 CITY COMMENTS: 05/05/26
 CITY COMMENTS: 03/09/26
 REVISIONS: [Table with columns for revision number, date, and description]
Willow Bridge
EROSION CONTROL DETAILS
CITYGATE II
 2180 CITYGATE LANE
 NAPERVILLE, IL 60563
 ORIGINAL ISSUE: 12/19/2025
 KHA PROJECT NO. 268930001
 SHEET NUMBER
C3.1

Drawing name: K:\CHS_LIVE\268930000_Milrow Bridge-CityGate Phase 2_Naperville_IL_2 Design\CAD\Sheets\C4.0 - GRADING PLAN.dwg C4.0 May 05, 2025 8:39am by OdehLevis
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GRADING LEGEND

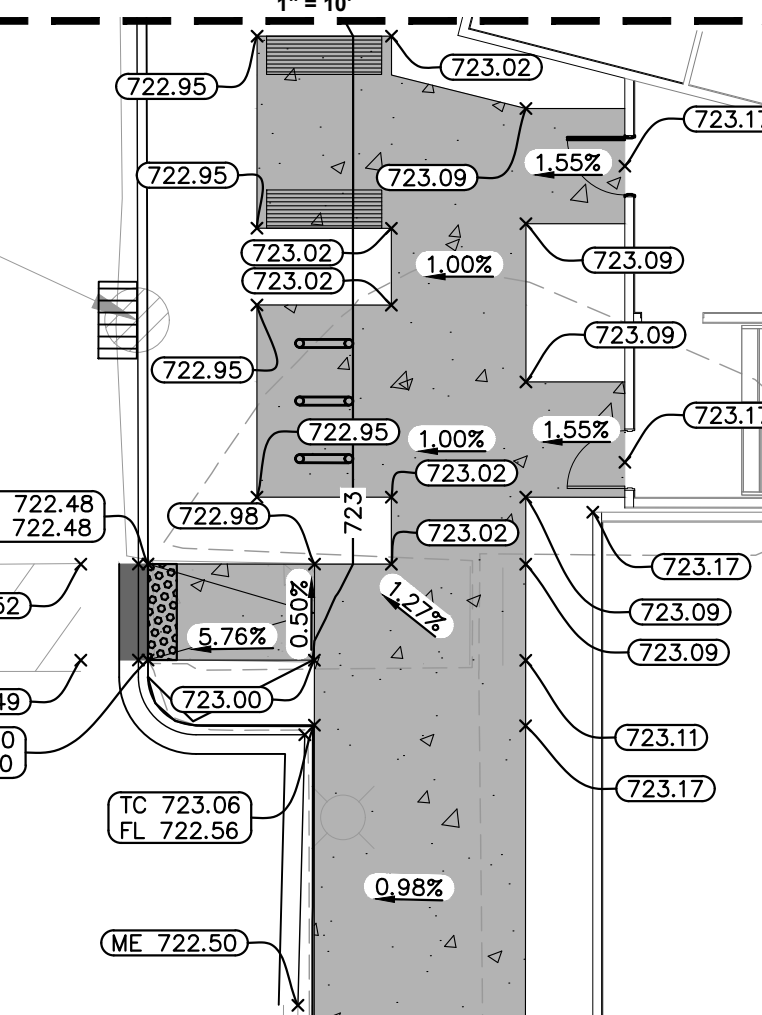
<ul style="list-style-type: none"> TB = TOP OF BERM FL = FLOW LINE TC = TOP OF CURB ME = MATCH ELEVATION FFE = FINISHED FLOOR ELEVATION R = RIM ELEVATION TW = TOP OF WALL FG = FINISHED GRADE ---XXX--- PROPOSED CONTOUR - - - - - EXISTING CONTOUR 	<ul style="list-style-type: none"> RIDGE XXXXX ← ----- V V V V ----- ----- ----- ----- ----- 	<ul style="list-style-type: none"> RIDGE LINE SLOPE AND FLOW DIRECTION 100-YEAR OVERLAND OVERFLOW ROUTE PROPOSED SWALE PROPOSED RETAINING WALL REVERSED PITCH CURB AND GUTTER ACCESSIBLE ROUTE LIMITS OF DISTURBANCE TOP OF BERM GRADE BREAK
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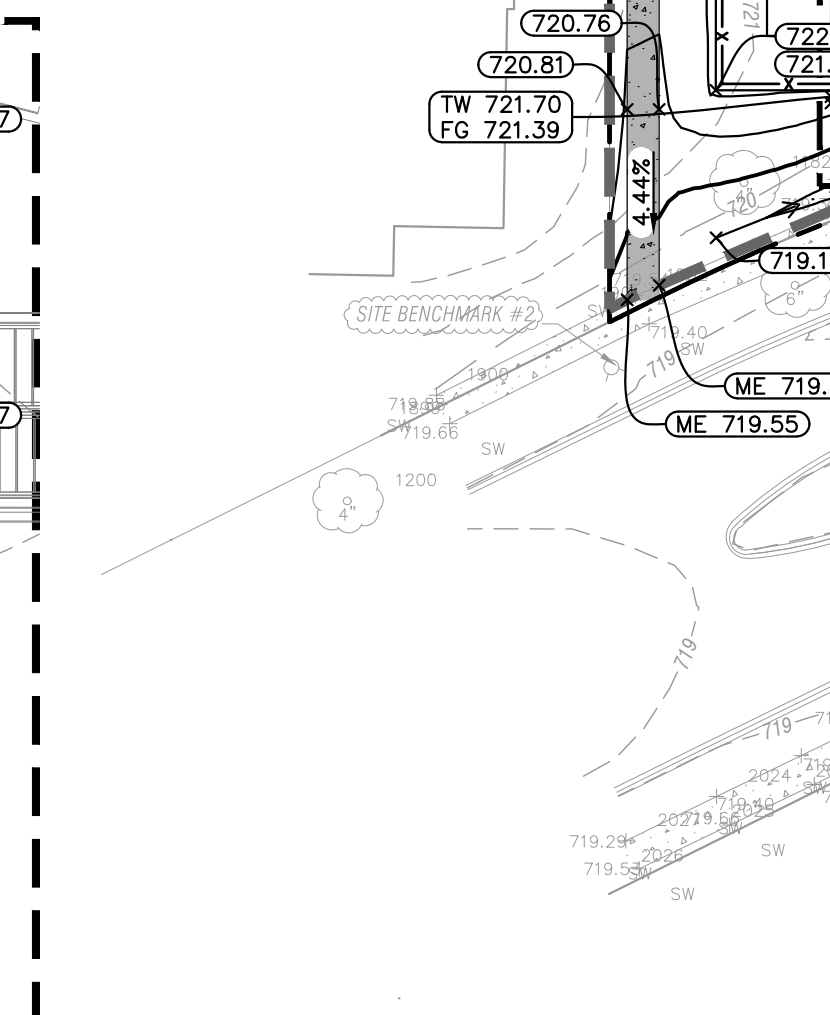
GRADING NOTES

- CONTRACTOR TO VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON THE SITE AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
- ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED.
- ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT TO ESTABLISH SUBGRADE ELEVATIONS.
- NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
- MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
- MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS AND ACCESSIBLE ROUTES UNLESS OTHERWISE NOTED.
- WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE GUTTER PITCH.
- MATCH EXISTING ELEVATIONS AT THE PROPERTY LIMITS.

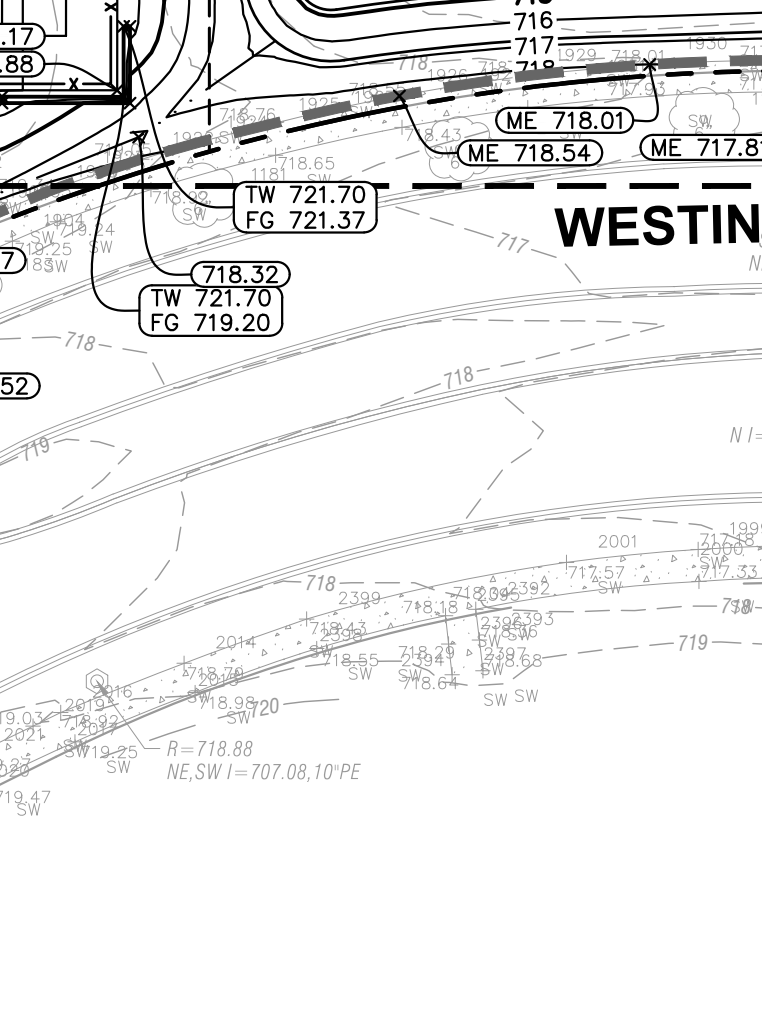
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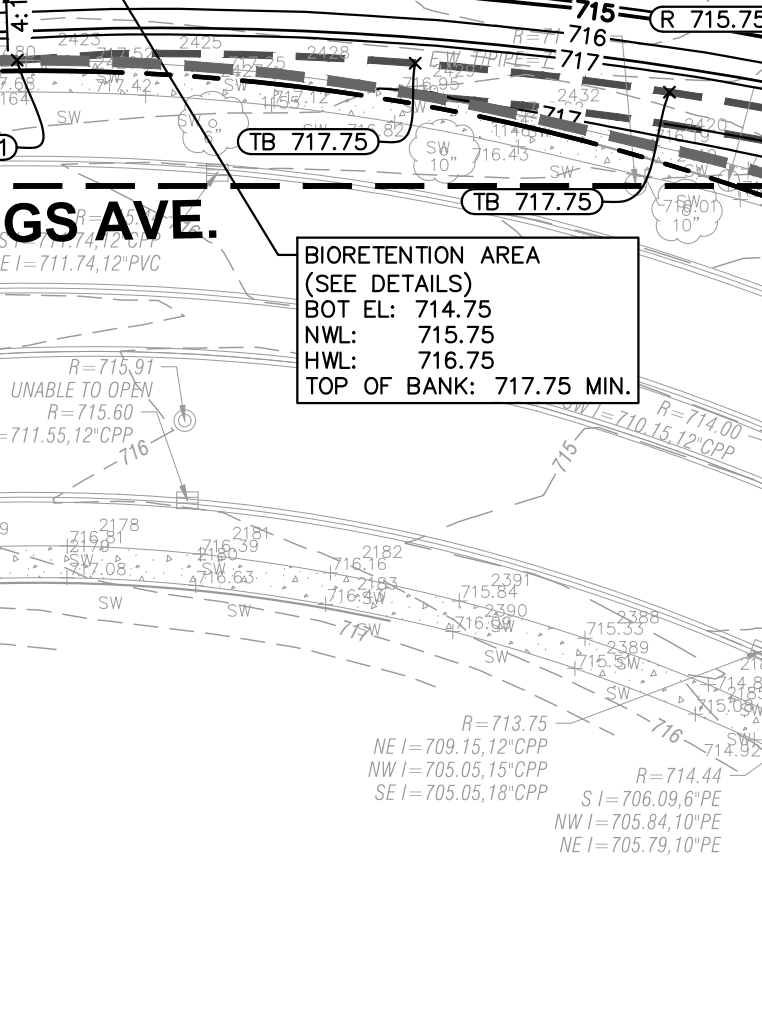
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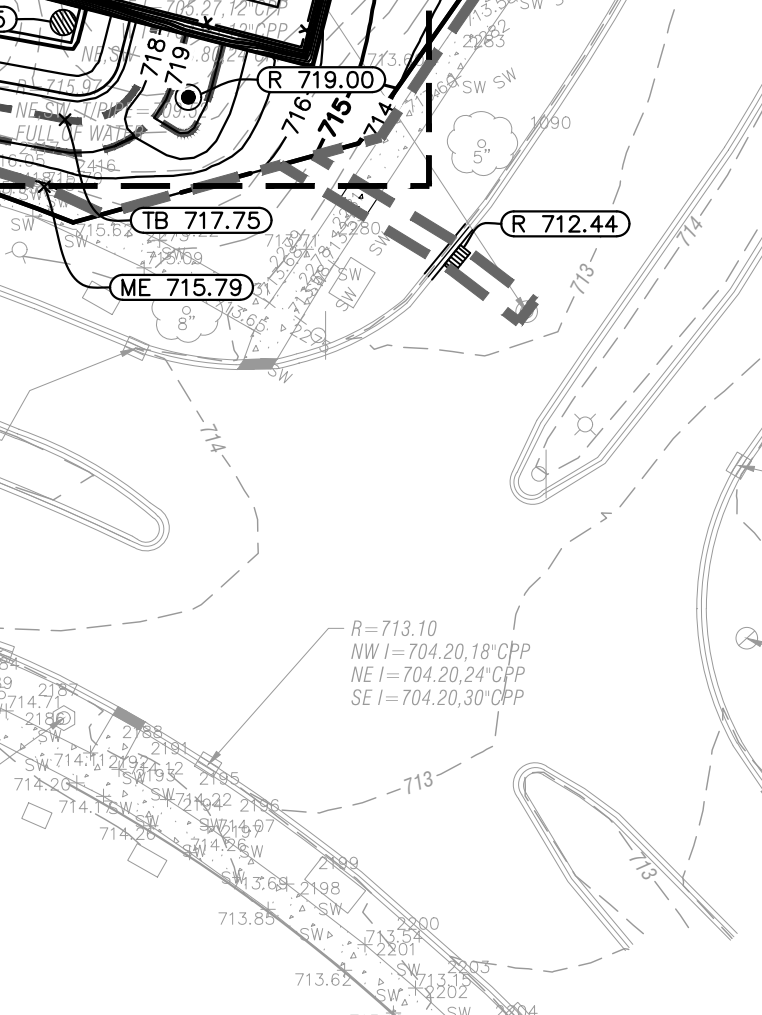
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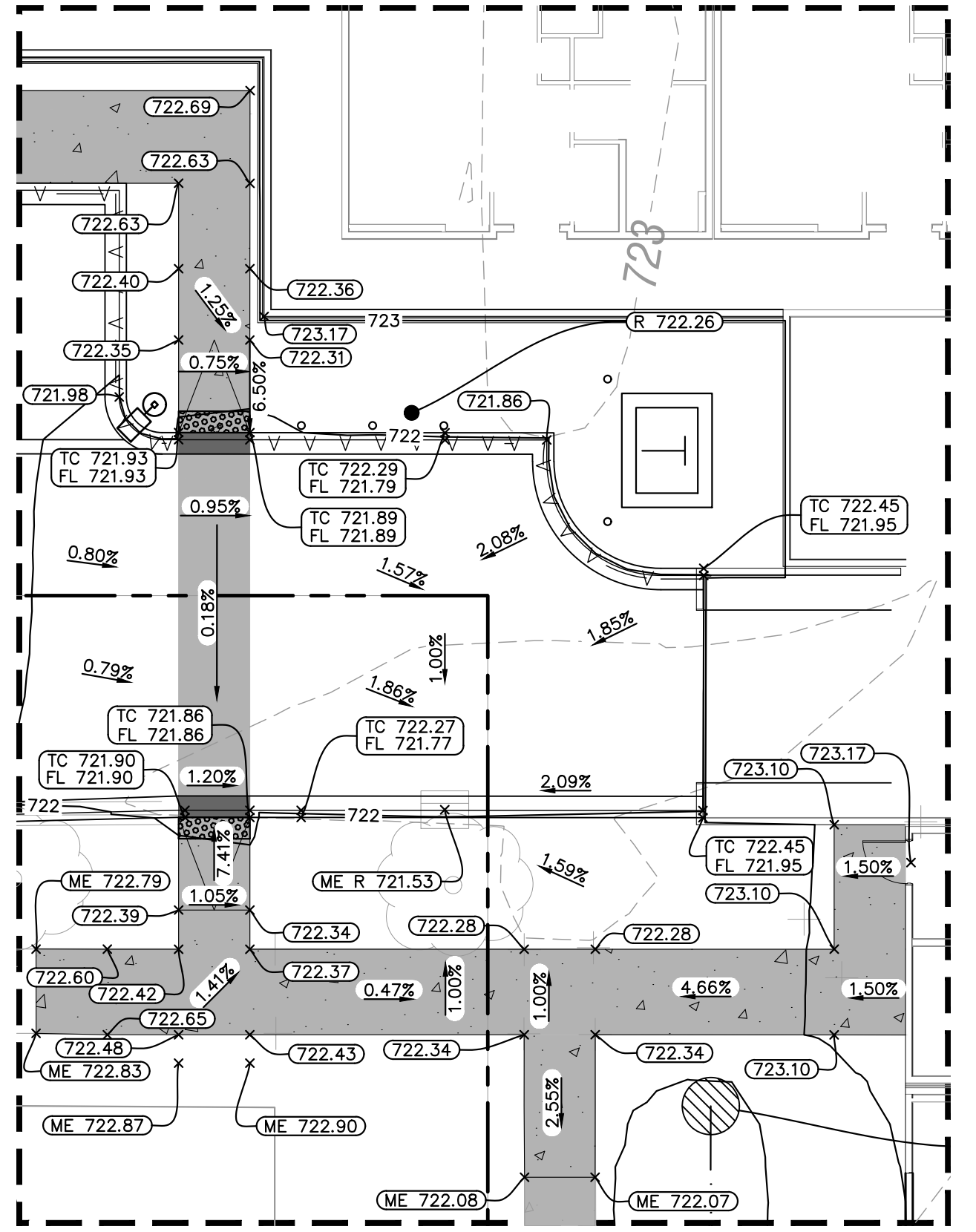
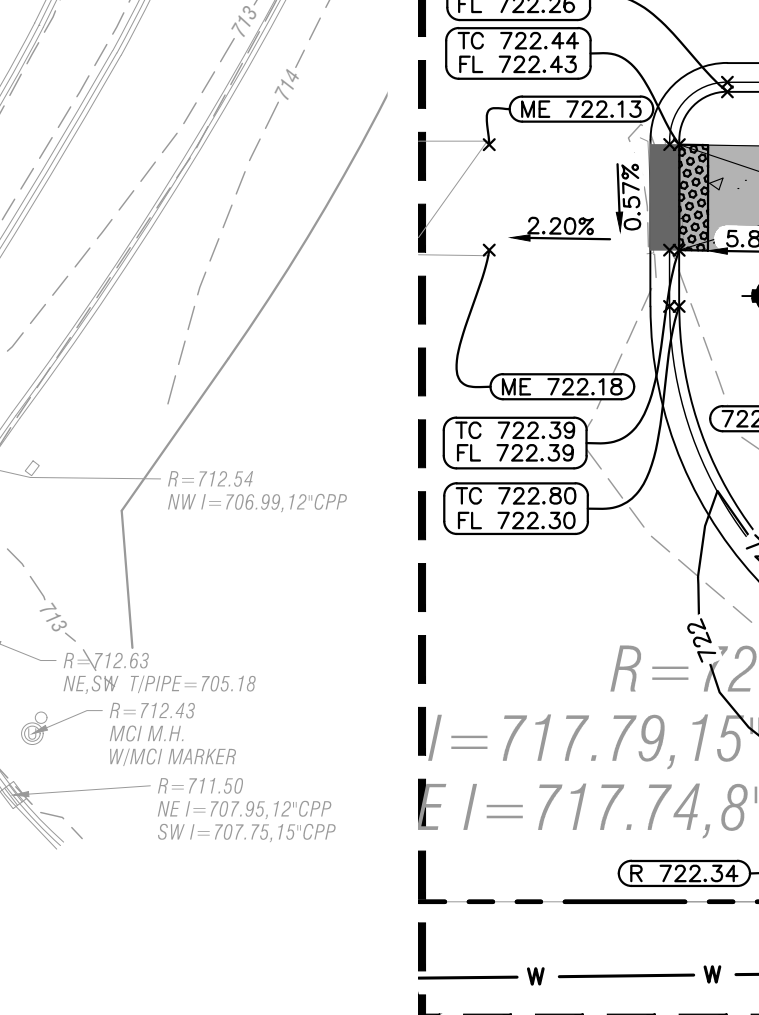
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1" = 10'



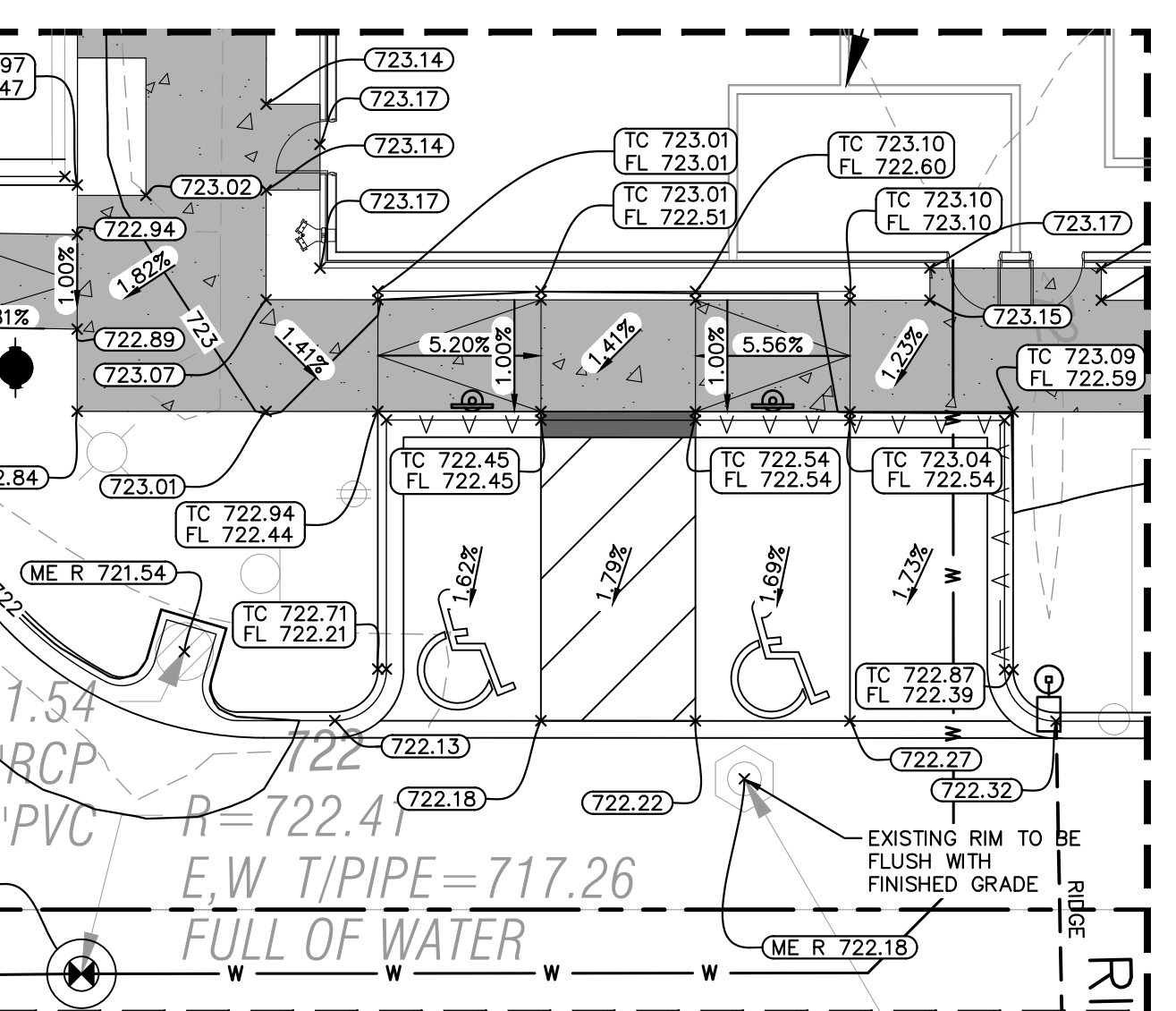
ADA GRADING DETAIL #5
SEE SHEET C4.1



ADA GRADING DETAIL #6
SEE SHEET C4.1



ADA GRADING DETAIL #1
1" = 10'



ADA GRADING DETAIL #2
1" = 10'

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Willow Bridge

CITYGATE II
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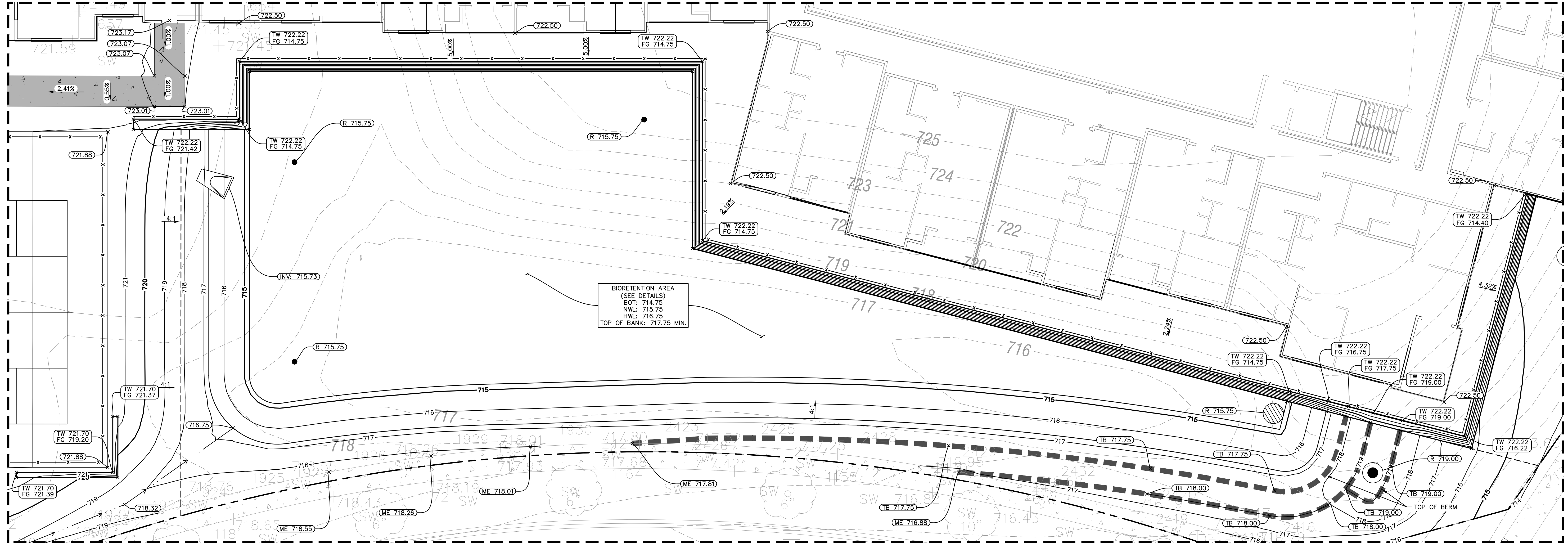
GRADING PLAN

SCALE:	AS NOTED
DESIGNED BY:	OTL
DRAWN BY:	ARG
CHECKED BY:	TRE

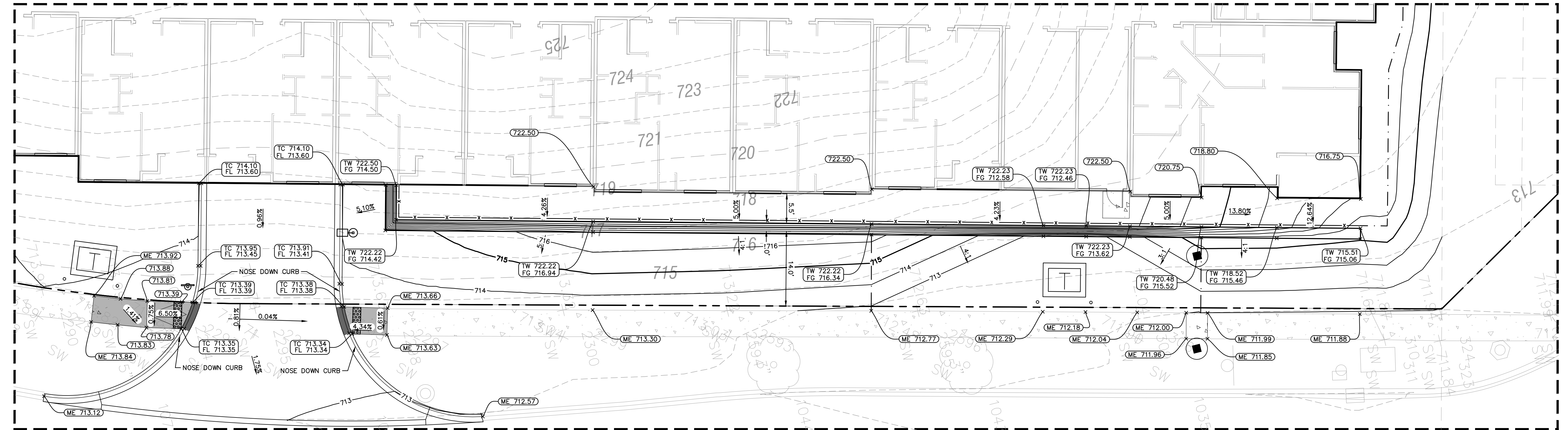
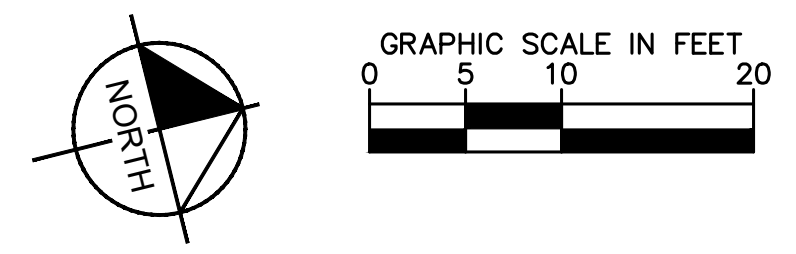
NO.	REVISIONS	DATE	BY
01		03/09/26	TRE
02		05/05/26	TRE

ORIGINAL ISSUE: 12/19/2025
 KHA PROJECT NO. 268930001
 SHEET NUMBER **C4.0**

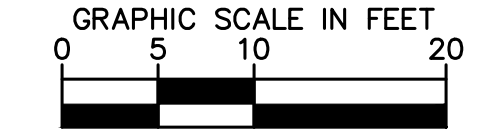
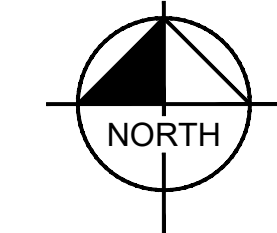
Drawing name: K:\CHS_LIVE\268930000\Willow Bridge-CityGate Phase 2_Naperville_IL_2 Design\CAD\Sheets\C4.0 - GRADING PLAN.dwg CA1 May 05, 2026 8:38am by OdeLewis
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GRADING DETAIL #5
1" = 10'




GRADING DETAIL #6
1" = 10'




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		CITYGATE II 2160 CITYGATE LANE NAPERVILLE, IL 60563		
GRADING DETAILS		ORIGINAL ISSUE: 12/19/2025 KHA PROJECT NO. 268930001 SHEET NUMBER C4.1		
NO.	REVISIONS	CITY COMMENTS	DATE	BY
1			05/05/26	TRE
2			03/09/26	TRE

Drawing name: K:\CHS\DEV\268930001_Willow_Bridge_CityGate Phase 2_Naperville_IL\2_Design\CAO\PlanSheets\C5.0 - UTILITY PLAN.dwg C5.0 May 05, 2026 8:39am by: Odo/Lewis
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WATER STRUCTURE TABLE		SANITARY STRUCTURE TABLE		SANITARY STRUCTURE TABLE		STORM STRUCTURE TABLE		STORM STRUCTURE TABLE	
STRUCTURE NAME	DETAILS	STRUCTURE NAME	DETAILS	STRUCTURE NAME	DETAILS	STRUCTURE NAME	DETAILS	STRUCTURE NAME	DETAILS
FH1	PROPOSED FIRE HYDRANT FG ELEV: 715.40	S1	DOGHOUSE MH RIM: 711.81 INV IN: 704.41 (S, 10") INV IN: 706.33 (W, 8") INV OUT: 704.41 (N, 10")	XS1	CONNECT TO EX. MH RIM: 713.64 INV IN: 705.39 (SW, 10") INV IN: 705.95 (W, 10") INV OUT: 705.39 (N, 10")	D1	4" DIA. CATCH BASIN - TYPE A RIM: 712.44 INV IN: 708.44 (NW, 15") INV OUT: 706.98 (SE, 18")	D9	4" DIA. CATCH BASIN - TYPE A RIM: 721.50 INV IN: 716.07 (N, 15") INV OUT: 716.07 (SE, 15")
FH2	PROPOSED FIRE HYDRANT FG ELEV: 722.76	S2	INSPECTION MH RIM: 714.55 INV IN: 706.78 (W, 8") INV OUT: 706.68 (E, 8")	XS2	CONNECT TO EX. MH RIM: 722.18 INV IN: 715.23 (N, 8") INV OUT: 715.23 (W, 8")	D2	OUTLET CONTROL STRUCTURE (SEE DETAILS) RIM: 719.00 INV IN: 710.45 (NW, 15") INV OUT: 709.45 (SE, 15")	D10	4" DIA. CATCH BASIN - TYPE A RIM: 721.50 INV IN: 716.50 (NW, 15") INV OUT: 716.50 (S, 15")
W1	12" VALVE IN VAULT FG ELEV: 722.34	S4	INSPECTION MH RIM: 714.37 INV IN: 706.65 (W, 10") INV OUT: 706.65 (E, 10")	MISCELLANEOUS SANITARY STRUCTURE TABLE		D3	4" DIA. CATCH BASIN - TYPE A RIM: 715.75 INV IN: 710.75 (W, 4") INV OUT: 710.75 (SE, 15")	D11	6" CLEANOUT RIM: 722.28 INV IN: 715.76 (N, 15") INV OUT: 716.76 (SE, 15")
W2	PROPOSED 8" WATER SERVICE CONNECTION FG ELEV: 723.17			S3	BUILDING CONNECTION INV OUT: 707.00 (E, 8")	D4	4" CLEANOUT RIM: 715.75 INV IN: 710.75 (S, 4")		
W3	PROPOSED PRESSURE CONNECTION FG ELEV: 715.60			S5	BUILDING CONNECTION INV OUT: 707.00 (E, 10")	D5	4" CLEANOUT RIM: 715.75 INV OUT: 710.75 (NE, 4")		
				S6	BUILDING CONNECTION INV OUT: 717.00 (S, 8")	D6	4" CLEANOUT RIM: 715.75 INV OUT: 710.75 (E, 4")		


 Call Before You Dig
JULIE
 1-800-892-0123


 GRAPHIC SCALE IN FEET
 0 15 30 60

UTILITY NOTES

- GENERAL UTILITY NOTES**
- ALL WATER LINES ≥ 3" SHALL BE DUCTILE IRON PIPE, CLASS 52.
 - ALL SANITARY SEWER LINES SHALL BE PVC MEETING, ASTM D-2241 SDR 26 EXCEPT FOR SANITARY SEWER THAT CROSSES ABOVE WATER MAIN, THIS PIPE SHALL BE AWWA C900 (UNLESS WATER MAIN CASING IS UTILIZED). PROVIDE 42" MINIMUM COVER.
 - CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
 - ALL ELECTRIC AND TELEPHONE EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
 - CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
 - CONTRACTOR TO CALL "JULIE" (1-800-892-0123) TO COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES BEFORE ORDERING MATERIALS OR COMMENCING CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
 - PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER AND THE OWNER/ DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION. THE MUNICIPALITY SHALL BE NOTIFIED OF ANY AND ALL CHANGES TO THE DESIGN PLANS.
 - CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
 - CONTRACTOR TO AVOID DISRUPTION OF ANY ADJACENT TENANT'S TRAFFIC OPERATIONS DURING INSTALLATION OF UTILITIES.
 - ALL DIMENSIONS ARE TO CENTERLINE OF PIPE OR CENTER OF MANHOLE UNLESS NOTED OTHERWISE.
 - SEE ARCHITECTURAL AND MEP PLANS FOR EXACT UTILITY CONNECTION LOCATIONS AT BUILDING.
 - LIGHT POLES SHOWN FOR COORDINATION PURPOSES ONLY AND DO NOT REPRESENT ACTUAL SIZE. SEE SITE LIGHTING PLANS BY OTHERS FOR MORE INFORMATION.
 - SEE DETAILS FOR LOCATING STORM STRUCTURES WITHIN THE CURB LINE.
 - STORMWATER FACILITIES MUST BE FUNCTIONAL BEFORE BUILDING CONSTRUCTION BEGINS.
 - STREETLIGHT UNIDUCT TO BE IN GALVANIZED STEEL UNDER ROADWAY. NO SPLICING OF CABLES, PULL NEW WORK SCHEDULE NEEDS TO BE COORDINATED WITH THE ELECTRIC DEPARTMENT 630-669-7383 EVEN IF OUTSIDE CONTRACTOR IS PERFORMING THE WORK.

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 4201 WINDLE ROAD, SUITE 600
 WILLOW BRIDGE, IL 60553
 WWW.KIMLEY-HORN.COM

Willow Bridge

UTILITY PLAN

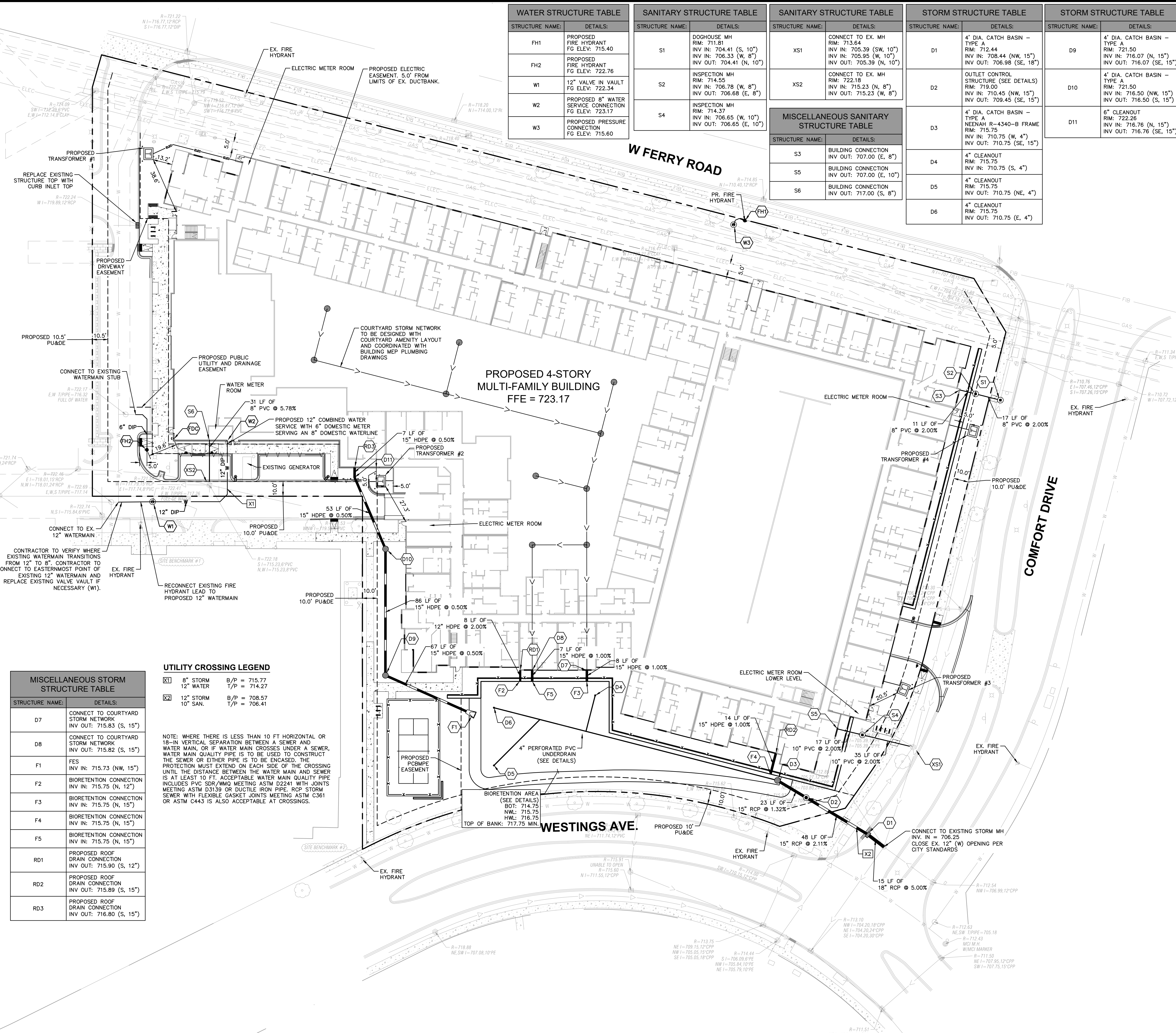
CITYGATE II
 2180 CITYGATE LANE
 NAPERVILLE, IL 60563

ORIGINAL ISSUE:
 12/19/2025
 KHA PROJECT NO.
 268930001
 SHEET NUMBER
C5.0

MISCELLANEOUS STORM STRUCTURE TABLE	
STRUCTURE NAME	DETAILS
D7	CONNECT TO COURTYARD STORM NETWORK INV OUT: 715.83 (S, 15")
D8	CONNECT TO COURTYARD STORM NETWORK INV OUT: 715.82 (S, 15")
F1	FES INV IN: 715.73 (NW, 15")
F2	BIORETENTION CONNECTION INV IN: 715.75 (N, 12")
F3	BIORETENTION CONNECTION INV IN: 715.75 (N, 15")
F4	BIORETENTION CONNECTION INV IN: 715.75 (N, 15")
F5	BIORETENTION CONNECTION INV IN: 715.75 (N, 15")
RD1	PROPOSED ROOF DRAIN CONNECTION INV OUT: 715.90 (S, 12")
RD2	PROPOSED ROOF DRAIN CONNECTION INV OUT: 715.89 (S, 15")
RD3	PROPOSED ROOF DRAIN CONNECTION INV OUT: 716.80 (S, 15")

UTILITY CROSSING LEGEND		
	8" STORM WATER	B/P = 715.77 T/P = 714.27
	12" STORM WATER	B/P = 708.57 T/P = 706.41

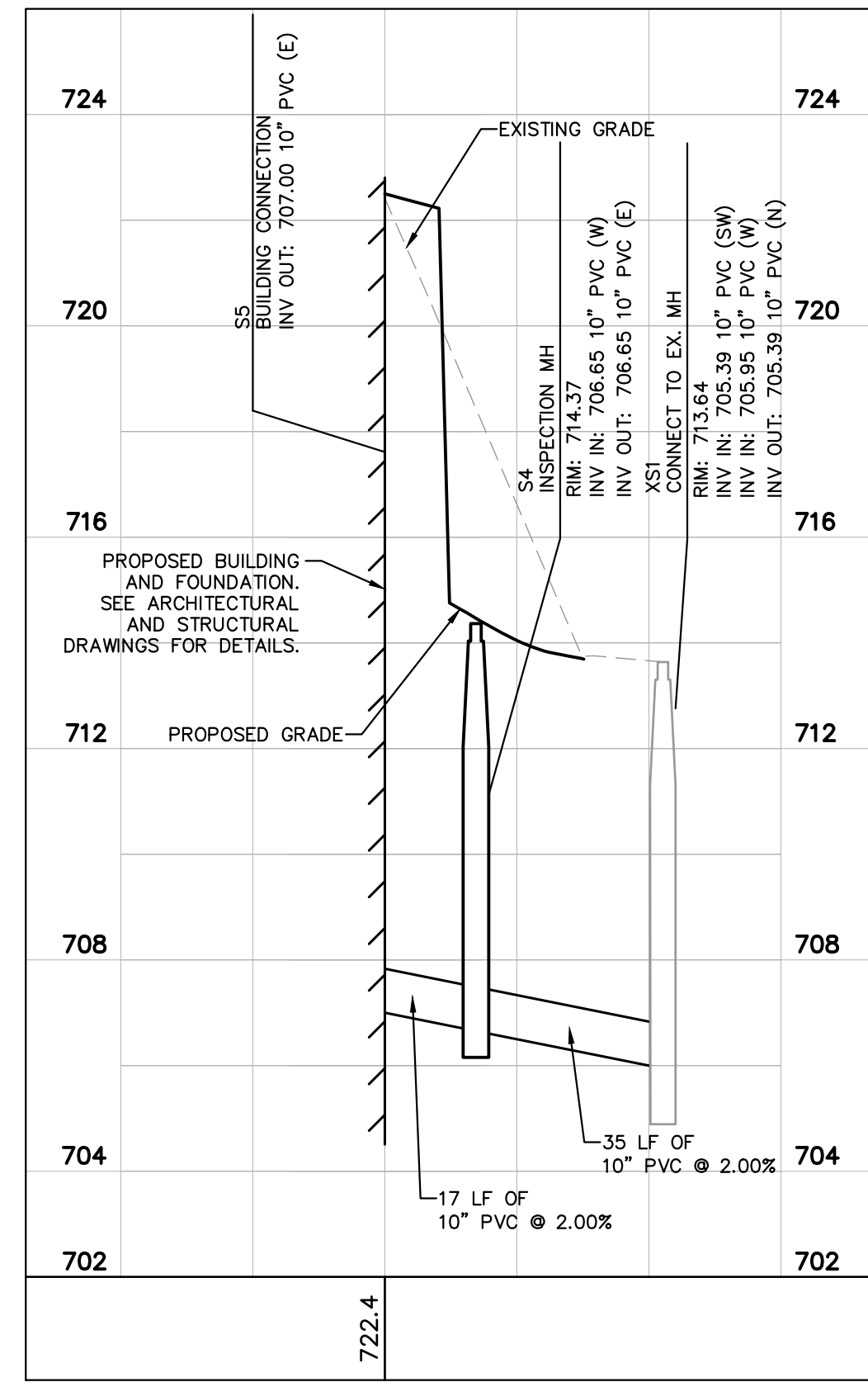
NOTE: WHERE THERE IS LESS THAN 10 FT HORIZONTAL OR 18-IN VERTICAL SEPARATION BETWEEN A SEWER AND WATER MAIN, OR IF WATER MAIN CROSSES UNDER A SEWER, WATER MAIN QUALITY PIPE IS TO BE USED TO CONSTRUCT THE SEWER OR EITHER PIPE IS TO BE ENCASED. THE PROTECTION MUST EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE DISTANCE BETWEEN THE WATER MAIN AND SEWER IS AT LEAST 10 FT. ACCEPTABLE WATER MAIN QUALITY PIPE INCLUDES PVC SDR/WMQ MEETING ASTM D2241 WITH JOINTS MEETING ASTM D3139 OR DUCTILE IRON PIPE. RCP STORM SEWER WITH FLEXIBLE GASKET JOINTS MEETING ASTM C361 OR ASTM C443 IS ALSO ACCEPTABLE AT CROSSINGS.



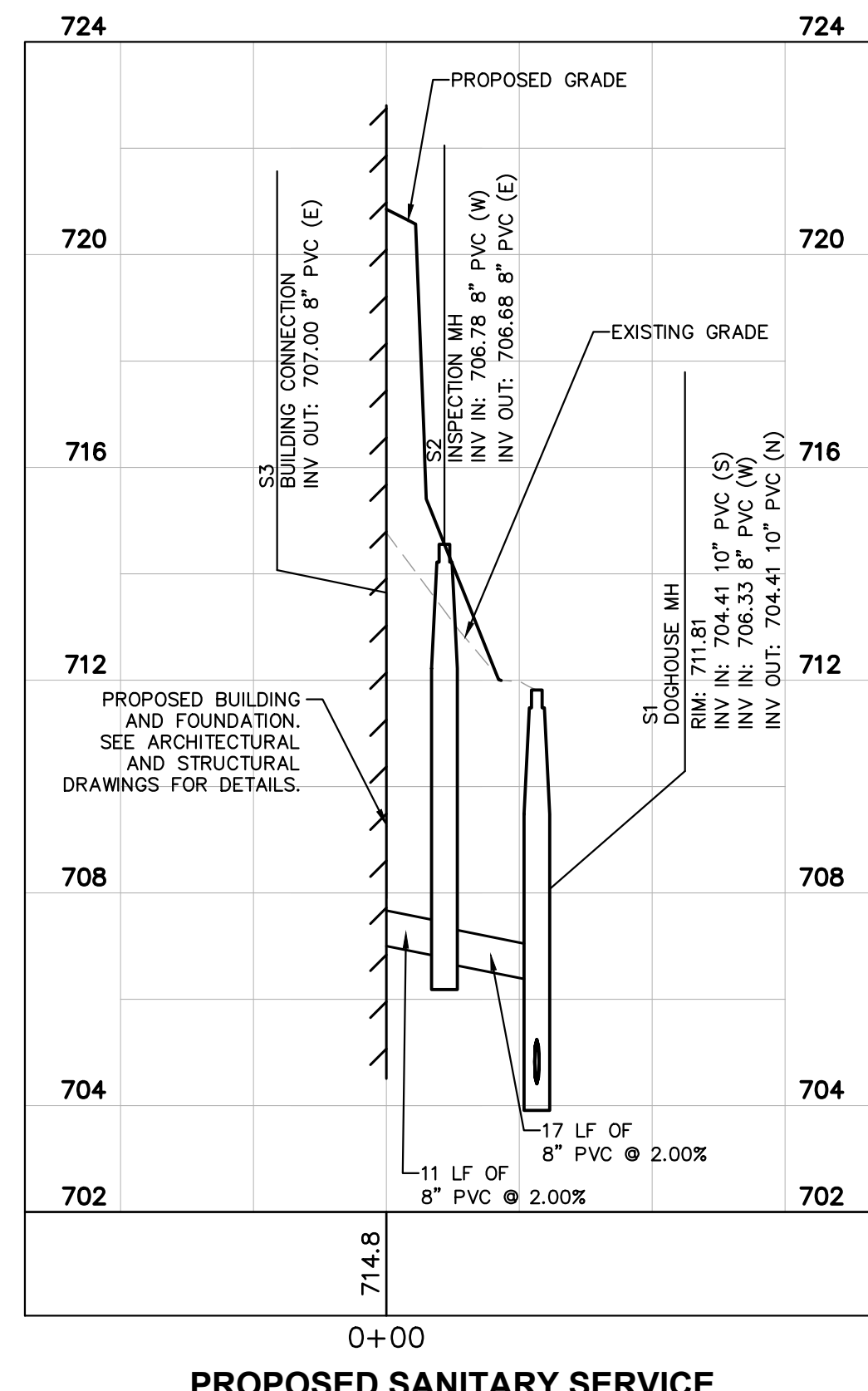
UTILITY LEGEND

- EX. WATER LINE
- EX. HYDRANT
- EX. WATER VALVE
- EX. SANITARY SEWER LINE
- EX. SANITARY SEWER MANHOLE
- EX. STORM SEWER LINE
- EX. STORM MANHOLE
- EX. STORM STRUCTURE/INLET
- EX. LIGHT POLE
- PROPOSED UNDERGROUND ELECTRIC LINE
- GAS LINE (BY GAS COMPANY)
- PROPOSED PHONE LINE
- PROPOSED OPEN LID STORM STRUCTURE (PAVEMENT USE NEENAH R-2502 PER NAPERVILLE DETAIL 290.10) (GRASS USE NEENAH R-4340-B BEEHIVE PER NAPERVILLE DETAIL 290.14)
- PROPOSED CLOSED LID STORM STRUCTURE (USE NEENAH R-1772 PER NAPERVILLE DETAIL 290.10)
- PROPOSED OPEN LID CURB STRUCTURE (86.12 C&G USE NEENAH R-3278-A PER NAPERVILLE DETAIL 290.11)
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM/SANITARY CLEANOUT
- PROPOSED WATER LINE
- PROPOSED VALVE VAULT
- PROPOSED FIRE HYDRANT
- PROPOSED LIGHT POLE
- PROPOSED TRANSFORMER PAD (FOR REFERENCE ONLY)
- RIP RAP (SEE DETAILS)

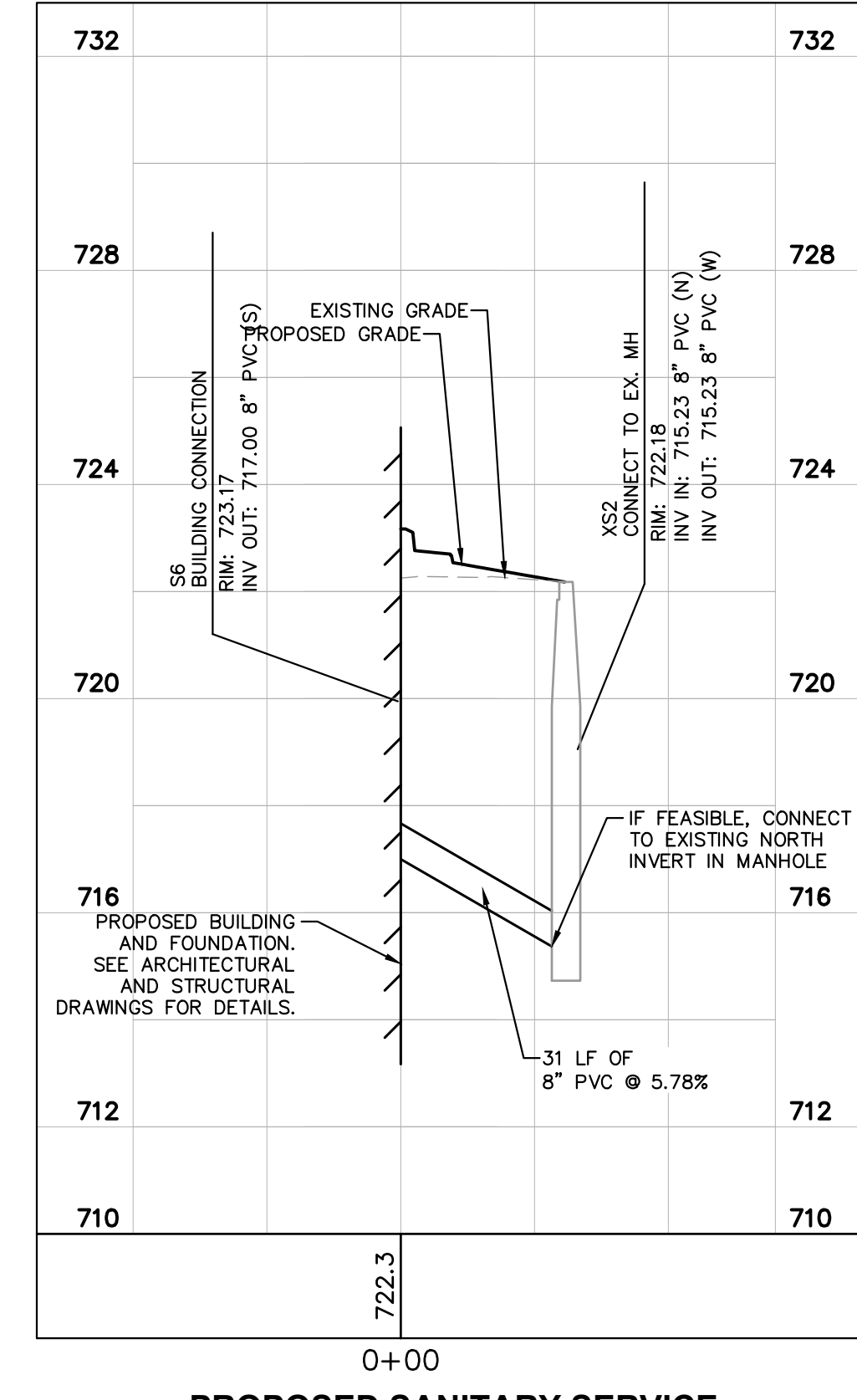
Drawing name: K:\CHS_DEV\268930001_Willow_Bridge_CityGate Phase 2_Naperville\12_Design\CAD\PlanSheets\C5.1 - SANITARY PROFILES.dwg C5.1 May 05, 2026 8:39am by: OdarLewis
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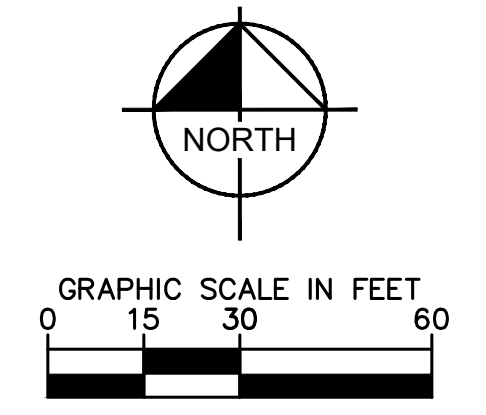
PROPOSED SANITARY SERVICE
 HORIZONTAL: 1" = 30' VERTICAL: 1" = 3'



PROPOSED SANITARY SERVICE
 HORIZONTAL: 1" = 30' VERTICAL: 1" = 3'



PROPOSED SANITARY SERVICE
 HORIZONTAL: 1" = 30' VERTICAL: 1" = 3'



NO.	DATE	BY	REVISIONS
1	05/05/26	TRE	CITY COMMENTS
2	03/09/26	TRE	CITY COMMENTS

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SCALE: AS NOTED
 DESIGNED BY: OTL
 DRAWN BY: ARG
 CHECKED BY: TRE

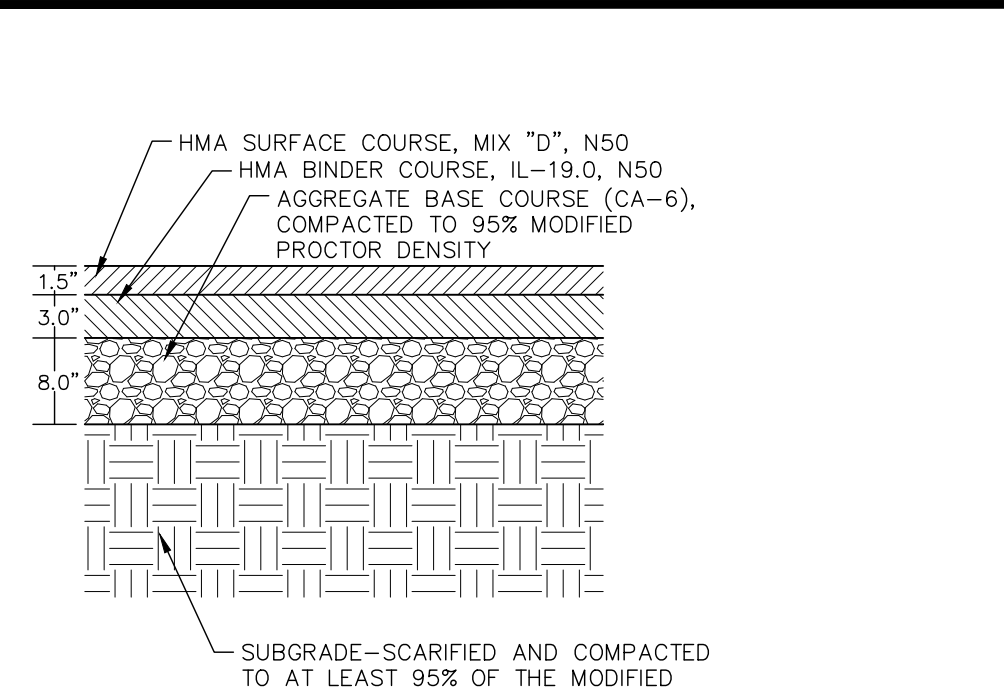


SANITARY PROFILES

CITYGATE II
 2180 CITYGATE LANE
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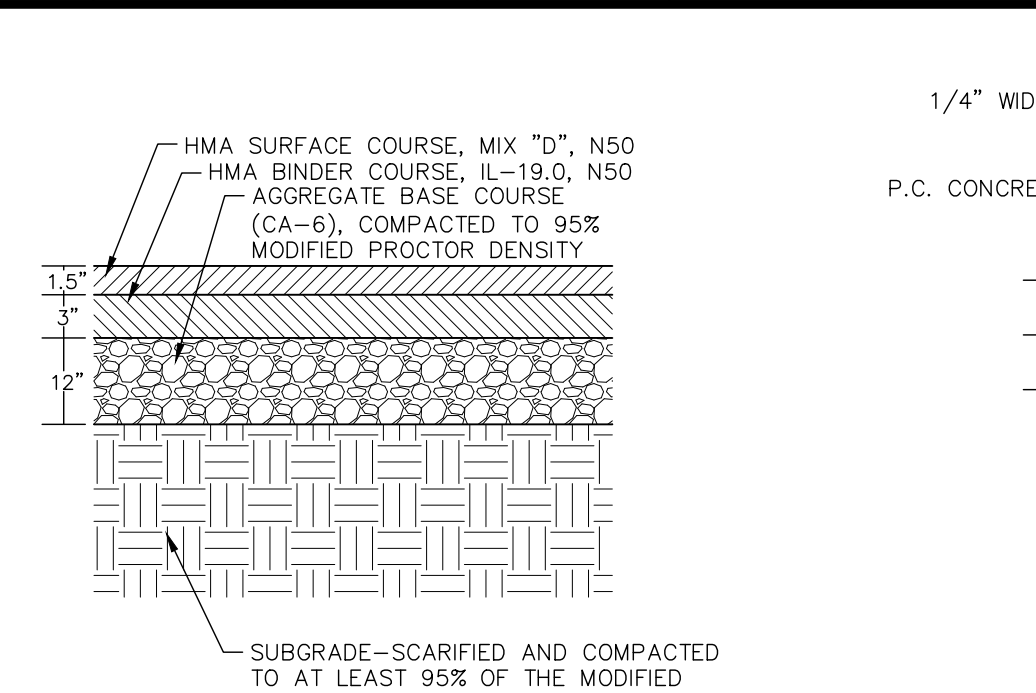
ORIGINAL ISSUE:
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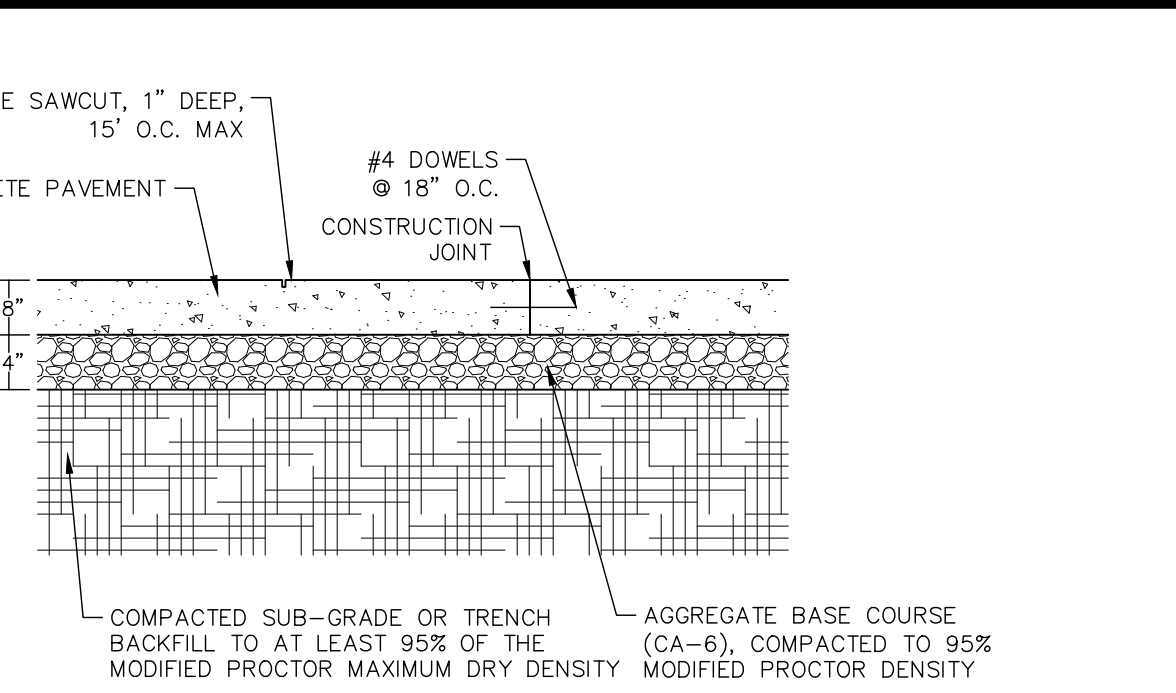
STANDARD DUTY ASPHALTIC PAVEMENT SECTION
N.T.S.

NOTE:
1. PAVEMENT THICKNESS, SUBGRADE PREP, ETC. DETERMINED FROM GEOTECHNICAL REPORT PERFORMED BY OTHERS. REFER TO REPORT FOR ALL INFORMATION RELATED TO PAVING.
2. SEE PAVING NOTES ON THE GENERAL NOTES SHEET FOR PRIME COAT AND TACK-COAT REQUIREMENTS.



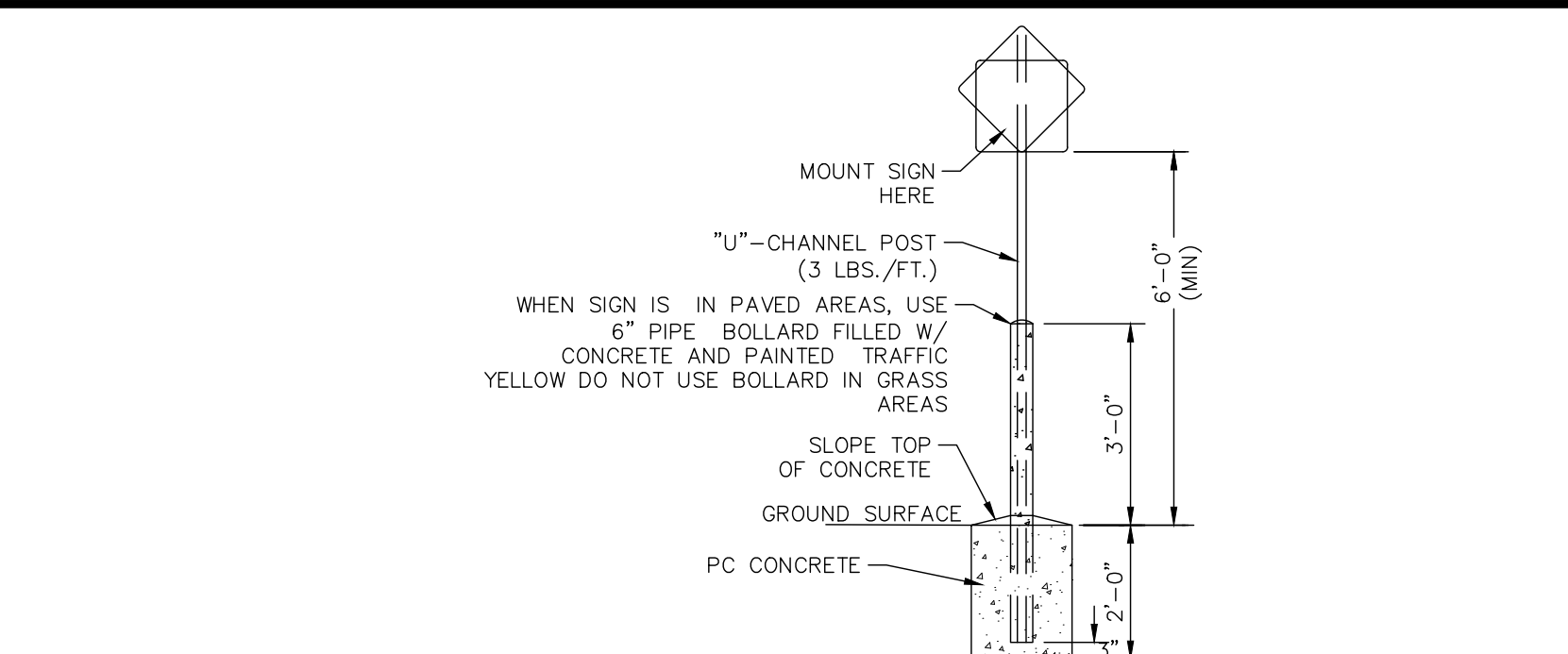
HEAVY DUTY ASPHALTIC PAVEMENT SECTION
N.T.S.

NOTE:
1. PAVEMENT THICKNESS, SUBGRADE PREP, ETC. DETERMINED FROM GEOTECHNICAL REPORT PERFORMED BY OTHERS. REFER TO REPORT FOR ALL INFORMATION RELATED TO PAVING.
2. SEE PAVING NOTES ON THE GENERAL NOTES SHEET FOR PRIME COAT AND TACK-COAT REQUIREMENTS.



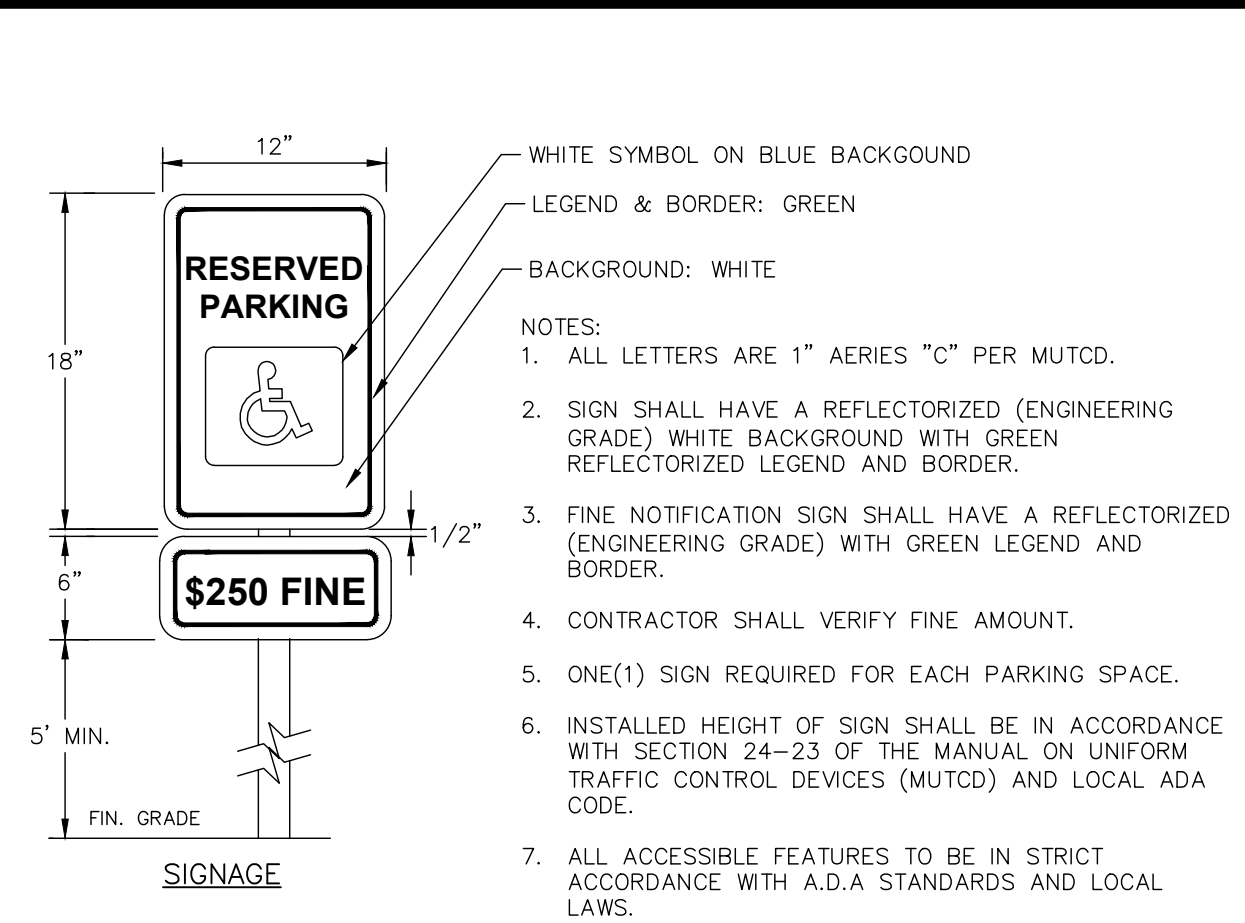
HEAVY DUTY CONCRETE PAVEMENT SECTION
N.T.S.

NOTE:
PAVEMENT THICKNESS, SUBGRADE PREP, ETC. DETERMINED FROM GEOTECHNICAL REPORT PERFORMED BY OTHERS. REFER TO REPORT FOR ALL INFORMATION RELATED TO PAVING.
CONCRETE COMPRESSIVE STRENGTH SHALL COMPLY WITH ASTM DESIGNATION C31. MINIMUM 28-DAY STRENGTH = 4000 PSI



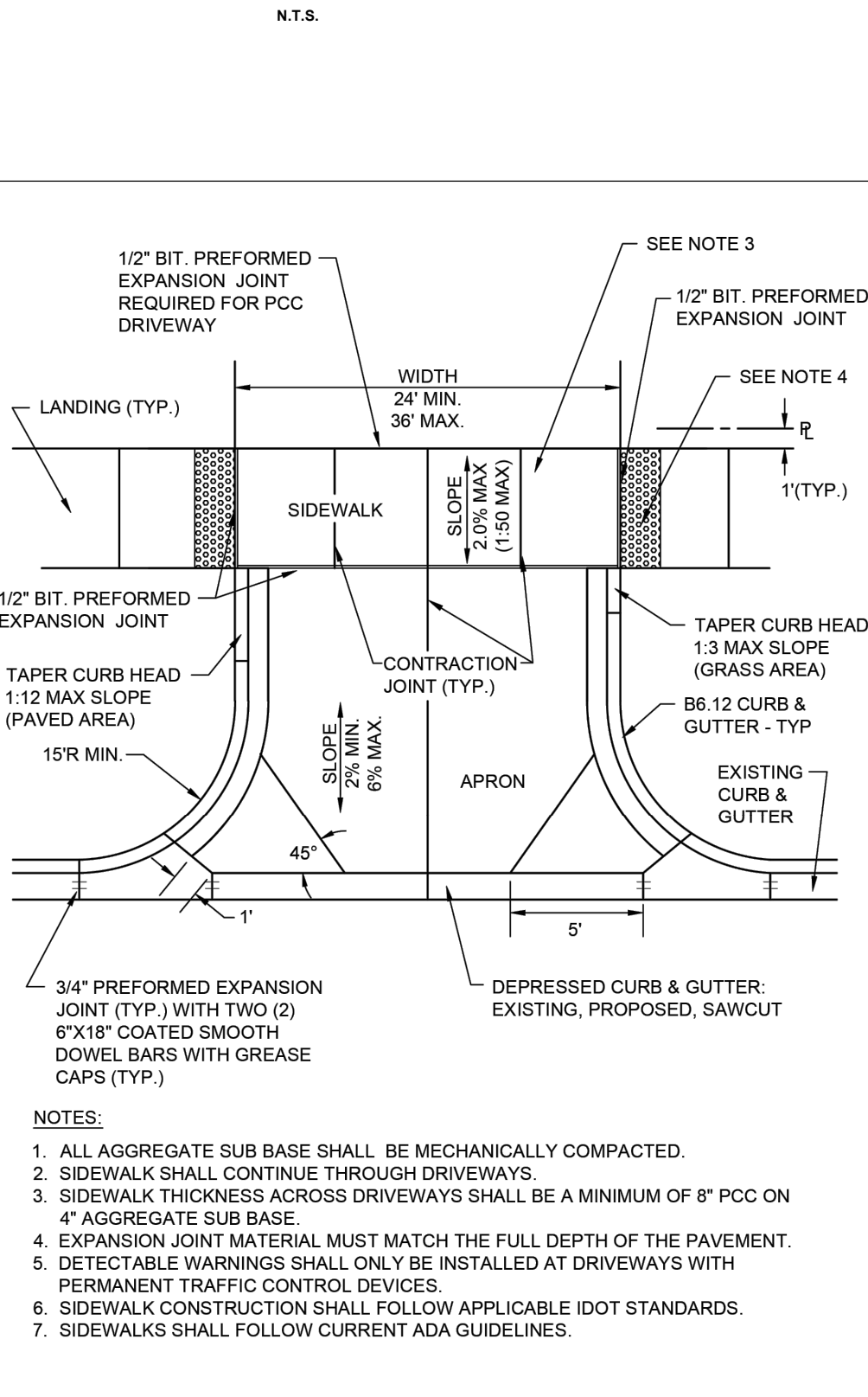
STANDARD SIGN BASE
N.T.S.

NOTE:
POLE AND SIGN TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
ALL SIGNS SHALL COMPLY WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", LOCAL CODES AND AS SPECIFIED. MOUNT SIGNS TO POST IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

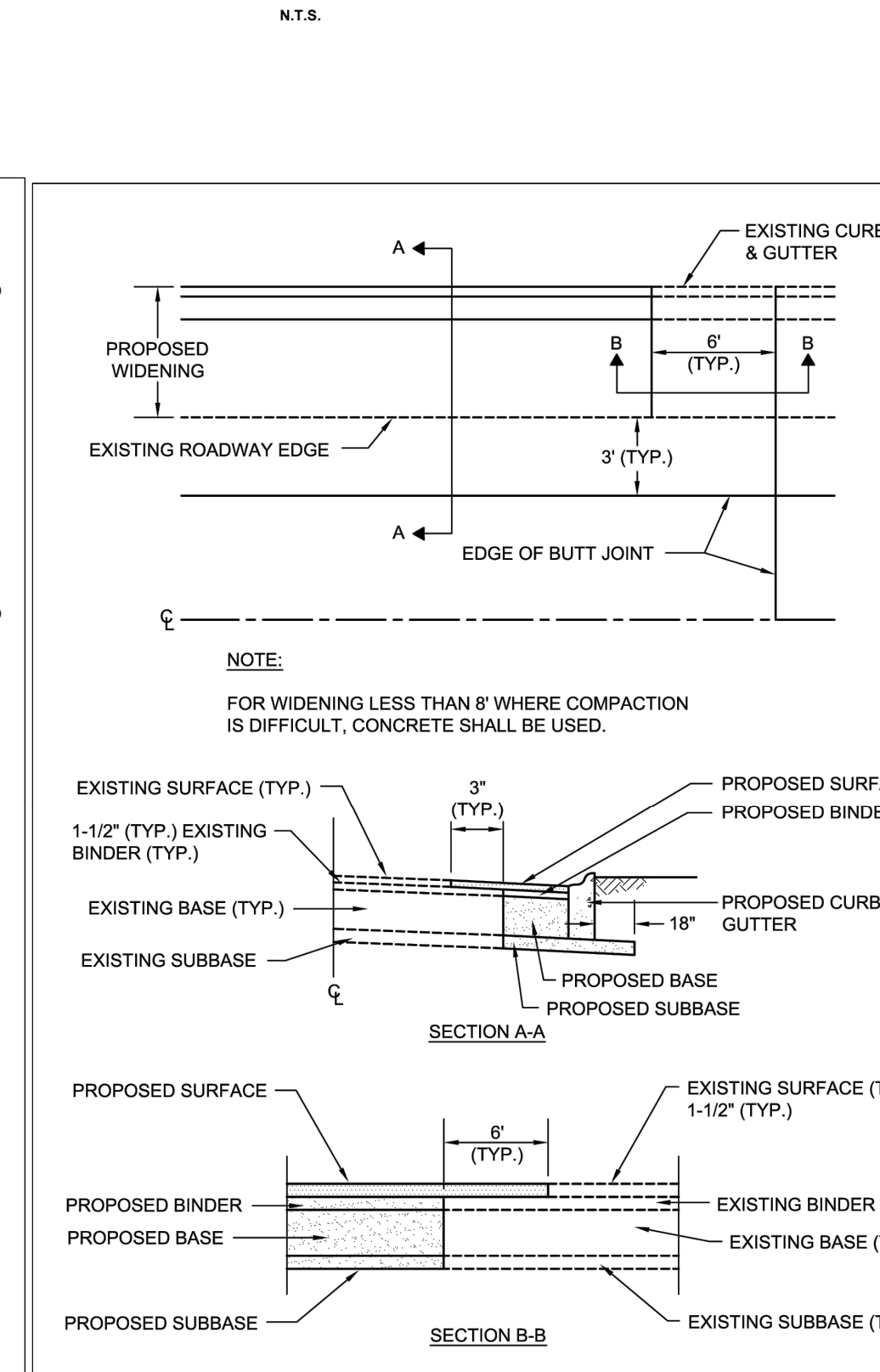


ACCESSIBLE PARKING SIGNAGE
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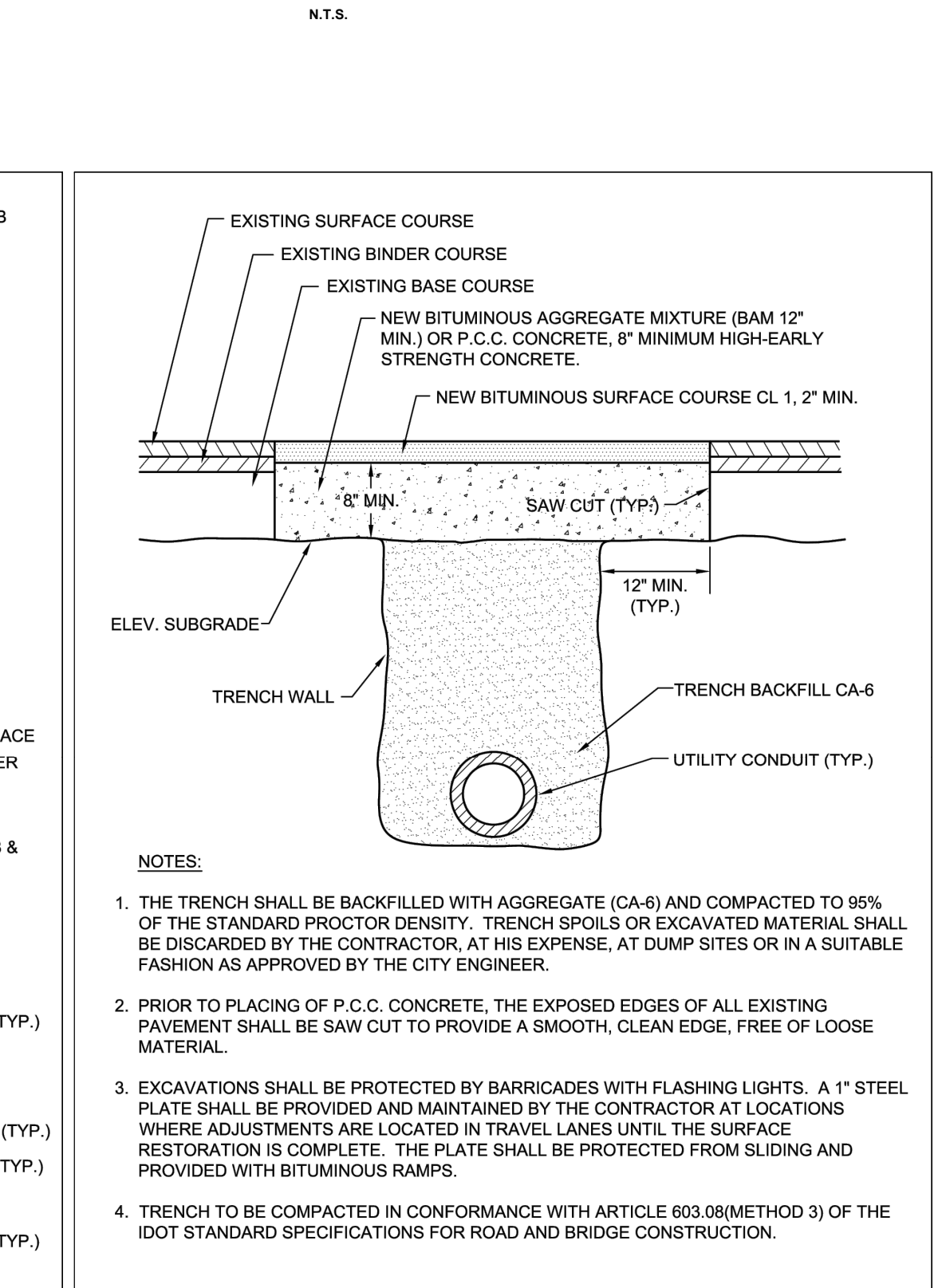
NOTE:
1. ALL LETTERS ARE 1" AERIES "C" PER MUTCD.
2. SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WHITE BACKGROUND WITH GREEN REFLECTORIZED LEGEND AND BORDER.
3. FINE NOTIFICATION SIGN SHALL HAVE A REFLECTORIZED (ENGINEERING GRADE) WITH GREEN LEGEND AND BORDER.
4. CONTRACTOR SHALL VERIFY FINE AMOUNT.
5. ONE(1) SIGN REQUIRED FOR EACH PARKING SPACE.
6. INSTALLED HEIGHT OF SIGN SHALL BE IN ACCORDANCE WITH SECTION 24-23 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND LOCAL ADA CODE.
7. ALL ACCESSIBLE FEATURES TO BE IN STRICT ACCORDANCE WITH A.D.A STANDARDS AND LOCAL LAWS.



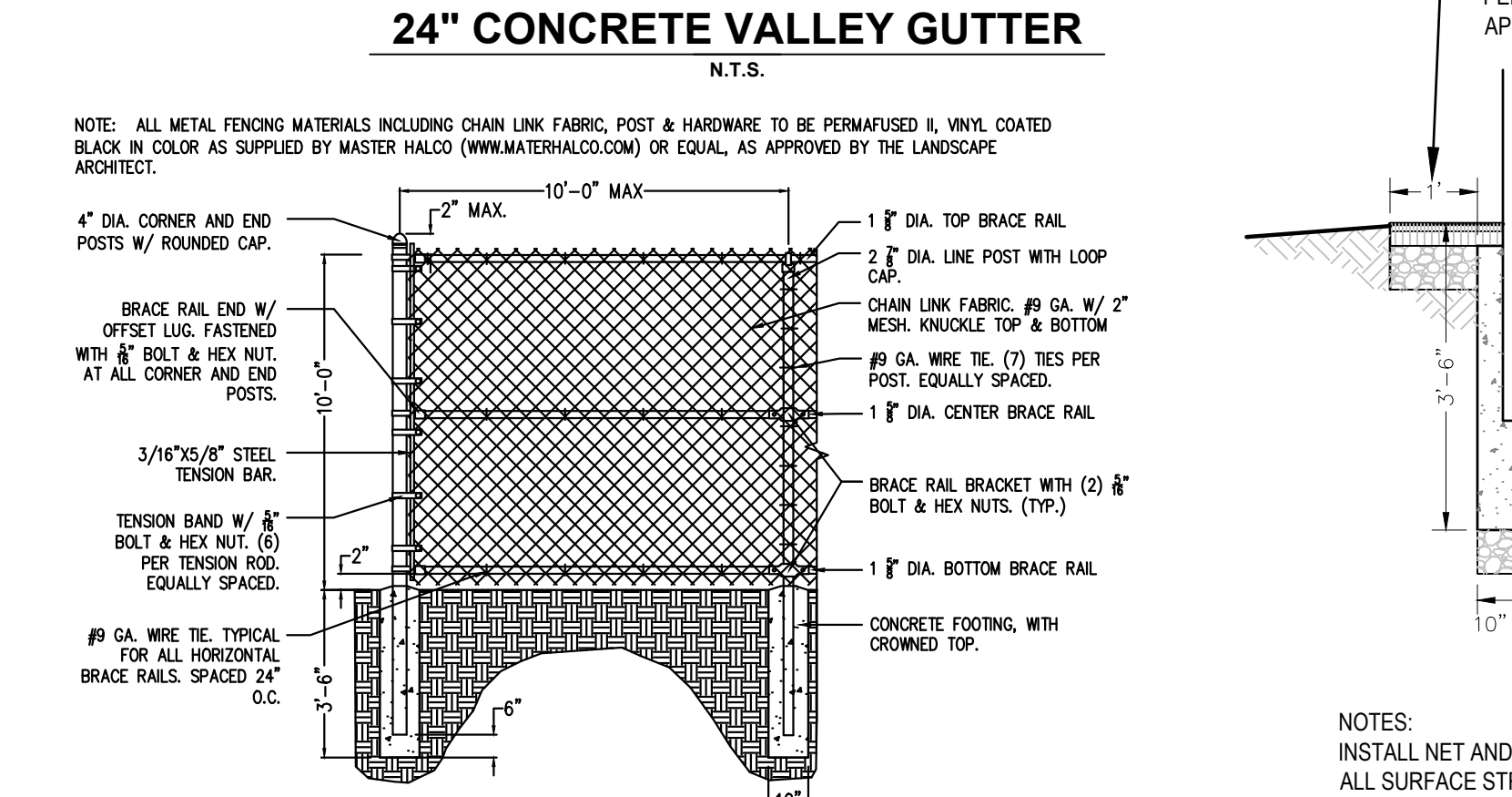
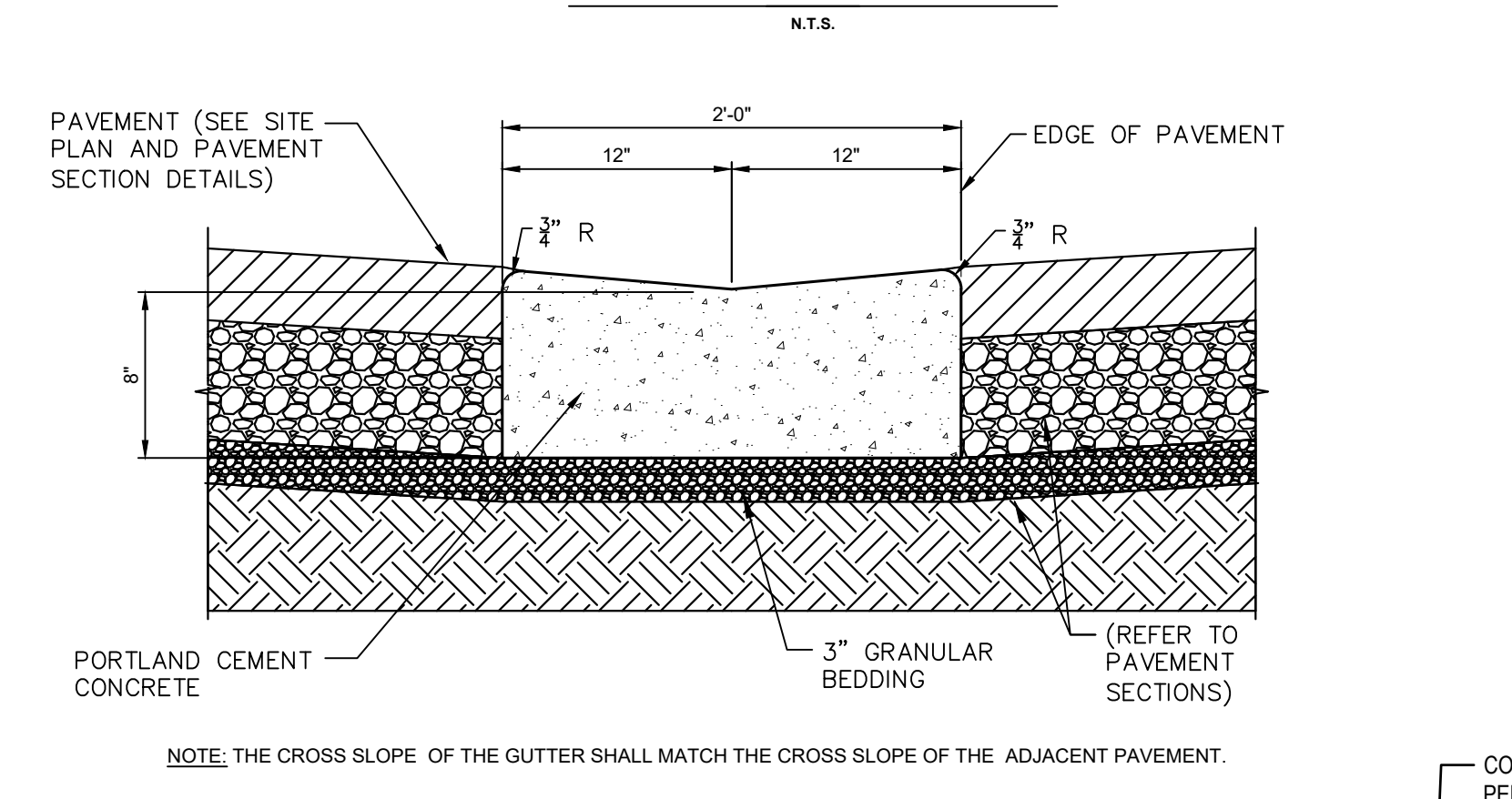
STANDARD COMMERCIAL DRIVEWAY DETAIL
REVISID: 08/01/2018 SHEET 1 OF 1 **590.05**



BUTT JOINT DETAIL
REVISID: 01/01/2013 SHEET 1 OF 1 **590.11**

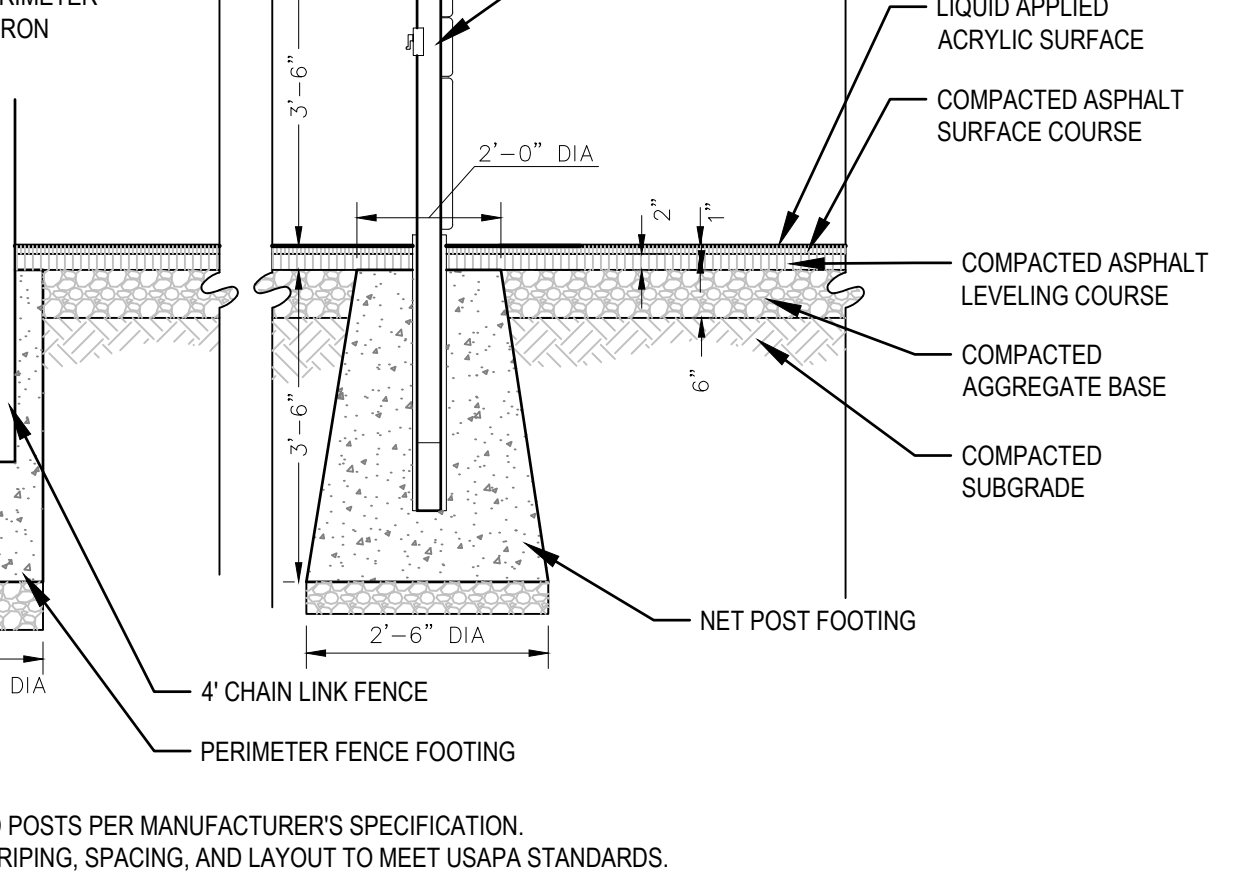
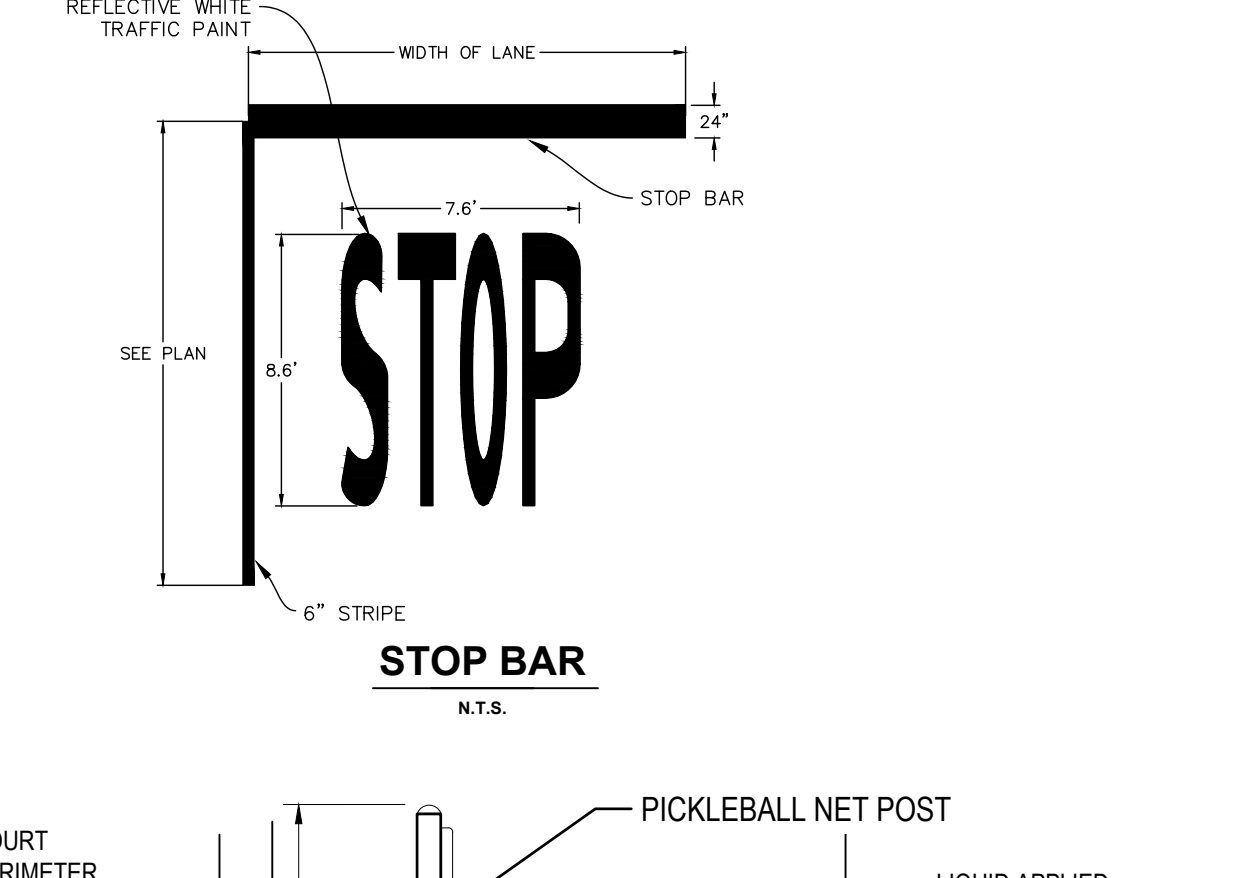


UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS)
REVISID: 01/01/2013 SHEET 1 OF 1 **590.13**



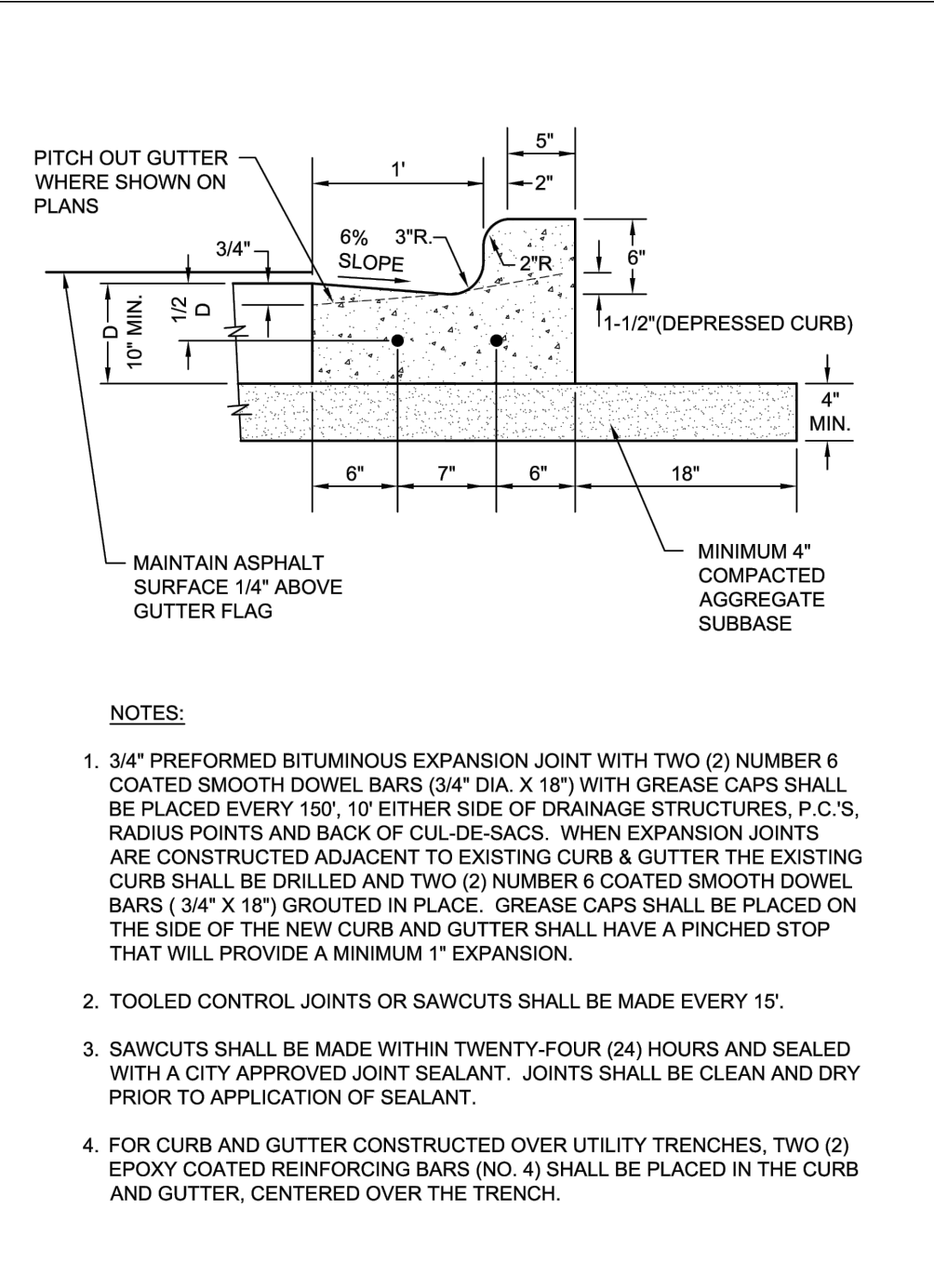
24" CONCRETE VALLEY GUTTER
N.T.S.

NOTE: ALL METAL FENCING MATERIALS INCLUDING CHAIN LINK FABRIC, POST & HARDWARE TO BE PERMAFUSED 1. VINYL COATED BLACK IN COLOR AS SUPPLIED BY MASTER HALCO (WWW.MASTERHALCO.COM) OR EQUAL, AS APPROVED BY THE LANDSCAPE ARCHITECT.

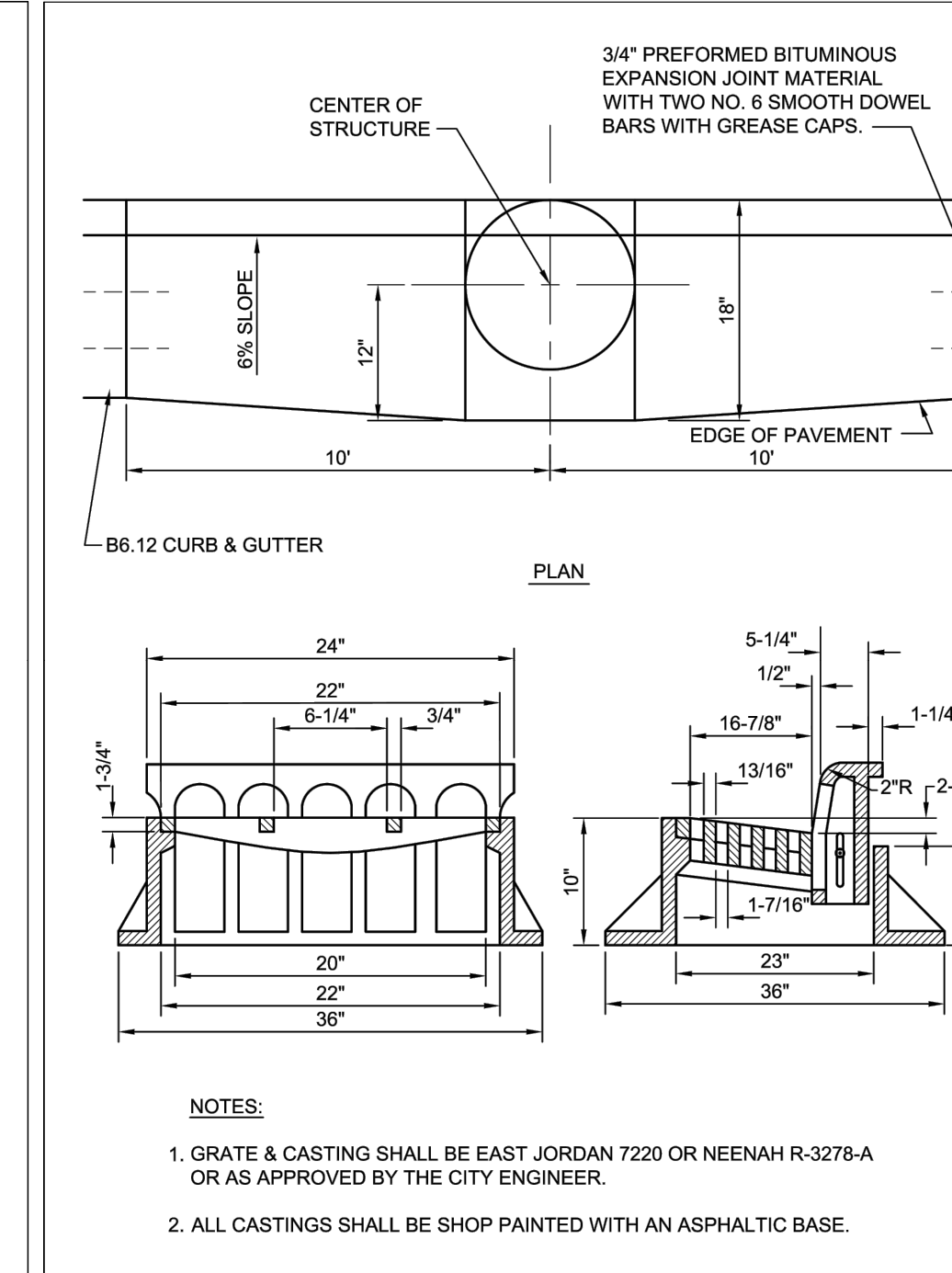


PICKLEBALL COURT PAVING AND FOOTINGS
N.T.S.

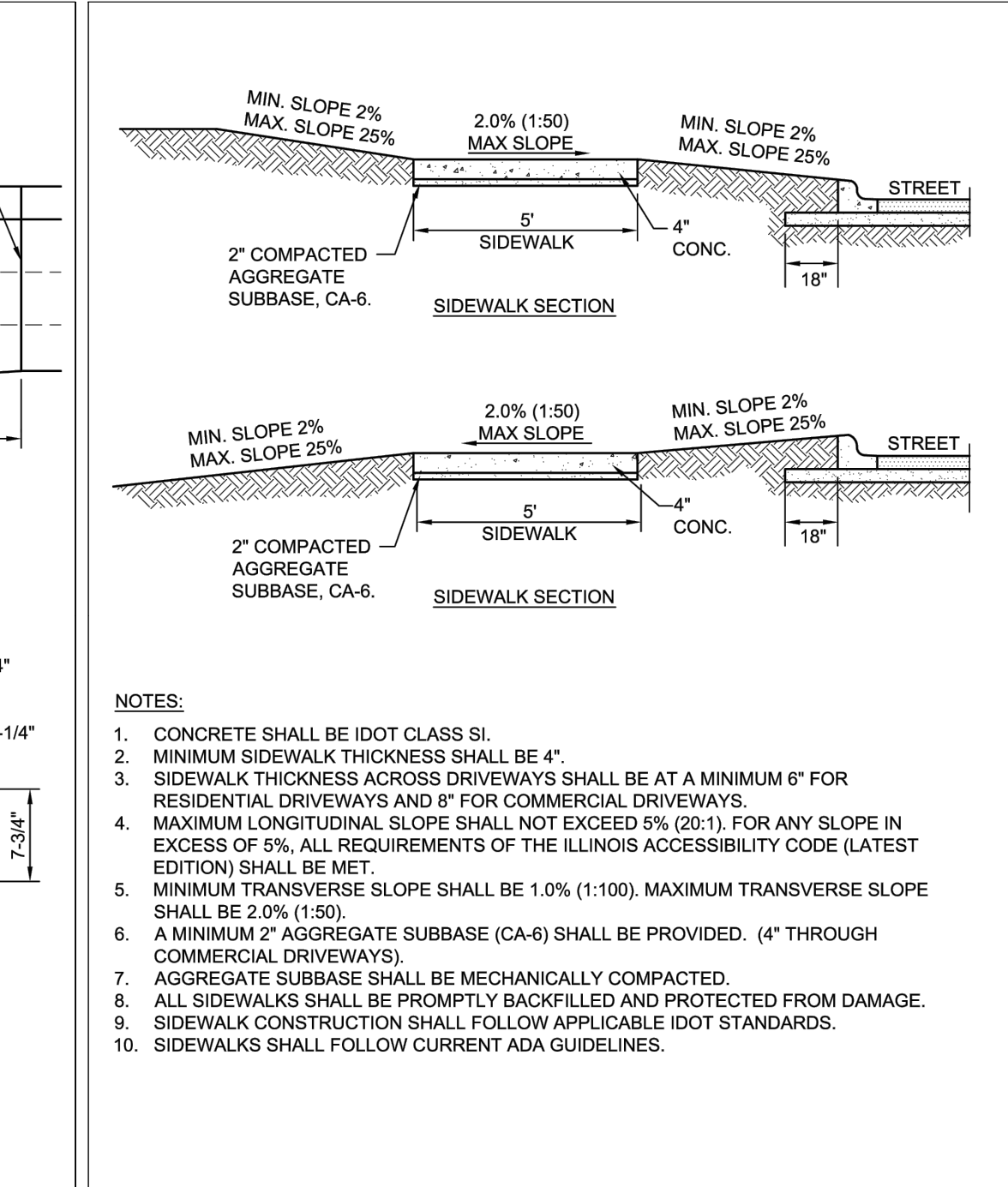
NOTE:
INSTALL NET AND POSTS PER MANUFACTURER'S SPECIFICATION.
ALL SURFACE STRIPING, SPACING, AND LAYOUT TO MEET USAPA STANDARDS.



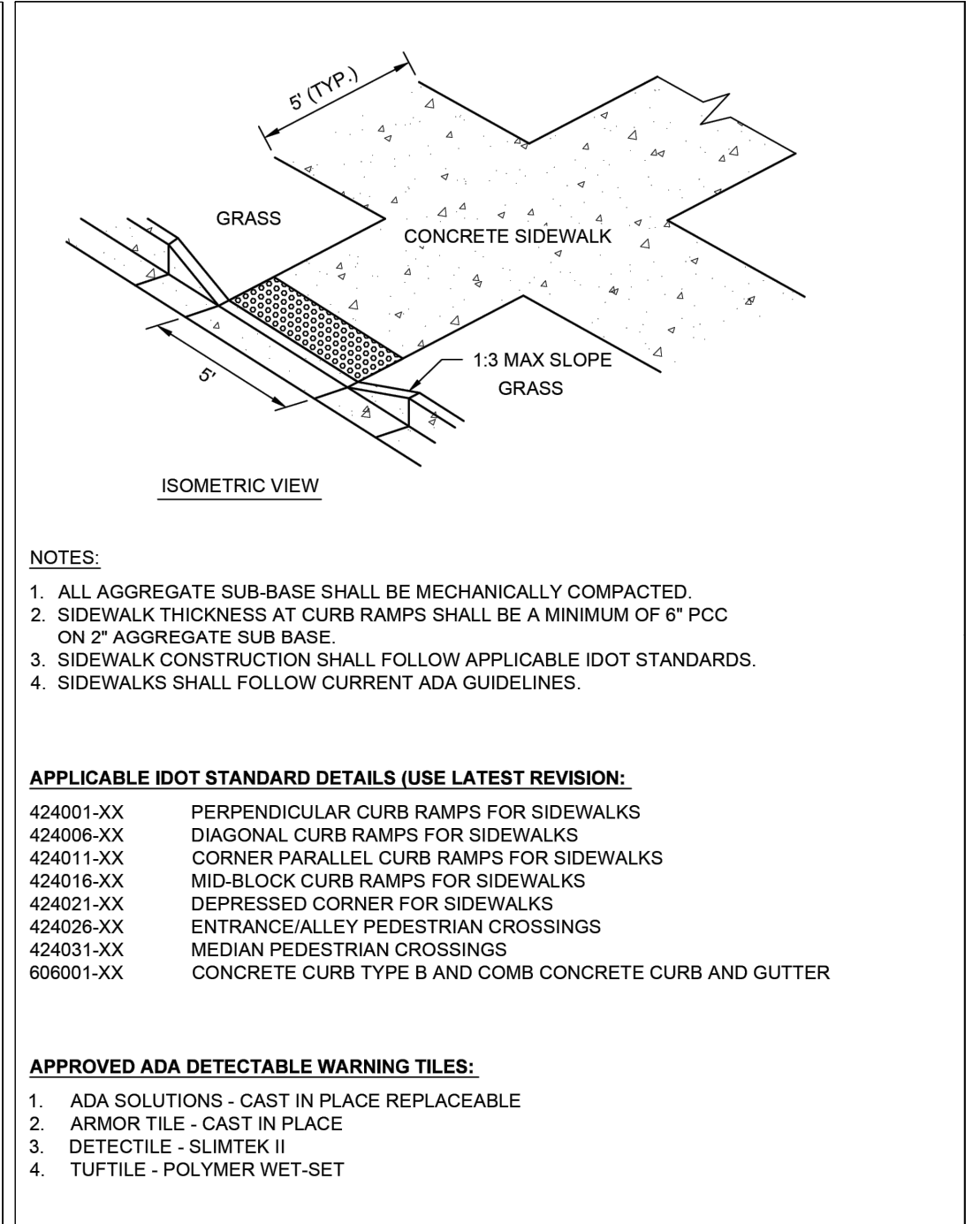
B6.12 BARRIER CURB & GUTTER
REVISID: 01/01/2013 SHEET 1 OF 1 **590.20**



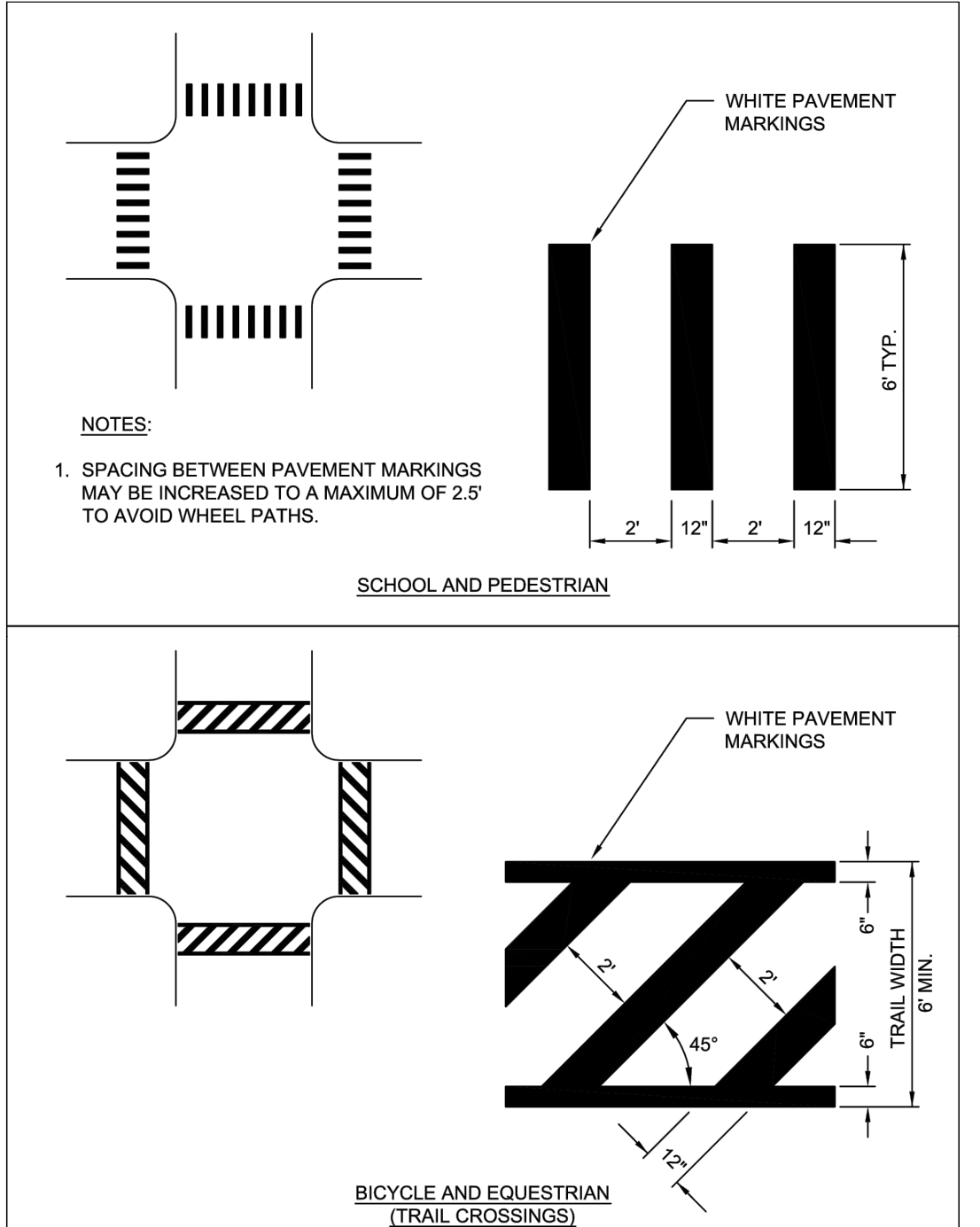
B6.12 BARRIER CURB & GUTTER AT CURB INLETS
REVISID: 01/01/2013 SHEET 1 OF 1 **590.21**



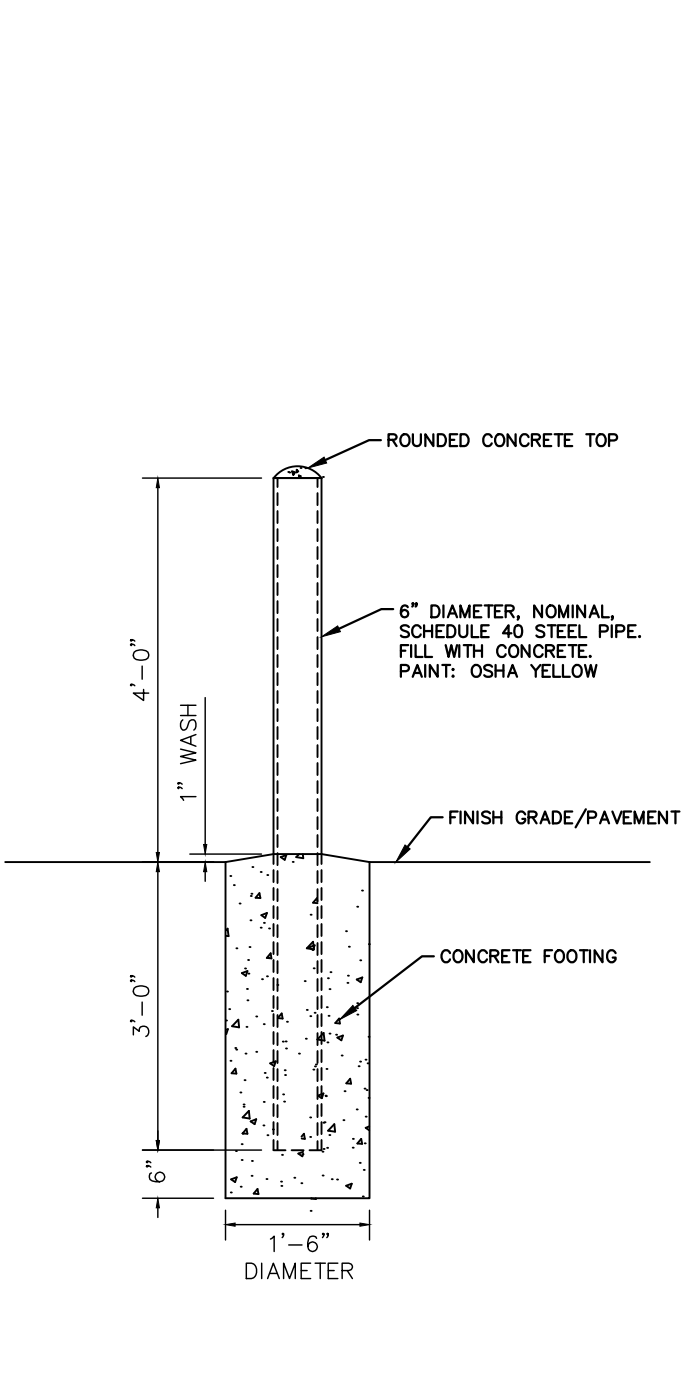
SIDEWALK
REVISID: 01/01/2013 SHEET 1 OF 1 **590.30**



CURB RAMPS
REVISID: 08/01/2018 SHEET 1 OF 1 **590.32**



CROSSWALK
REVISID: 06/14/2013 SHEET 1 OF 1 **590.33**



6" BOLLARD DETAIL
N.T.S.

Drawing name: K:\GIS\DEV\268930001_Willow_Bridge_CityGate II_V2 Design\CAD\PlanSheets\CR-0 - CONSTRUCTION DETAILS.dwg C6.0 May 05, 2026 8:39am by: Odele Lewis
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DATE	05/05/26	TRE	03/09/26
REVISIONS		CITY COMMENTS	
BY		DATE	

SCALE: AS NOTED
DESIGNED BY: OTL
DRAWN BY: ARG
CHECKED BY: TRE

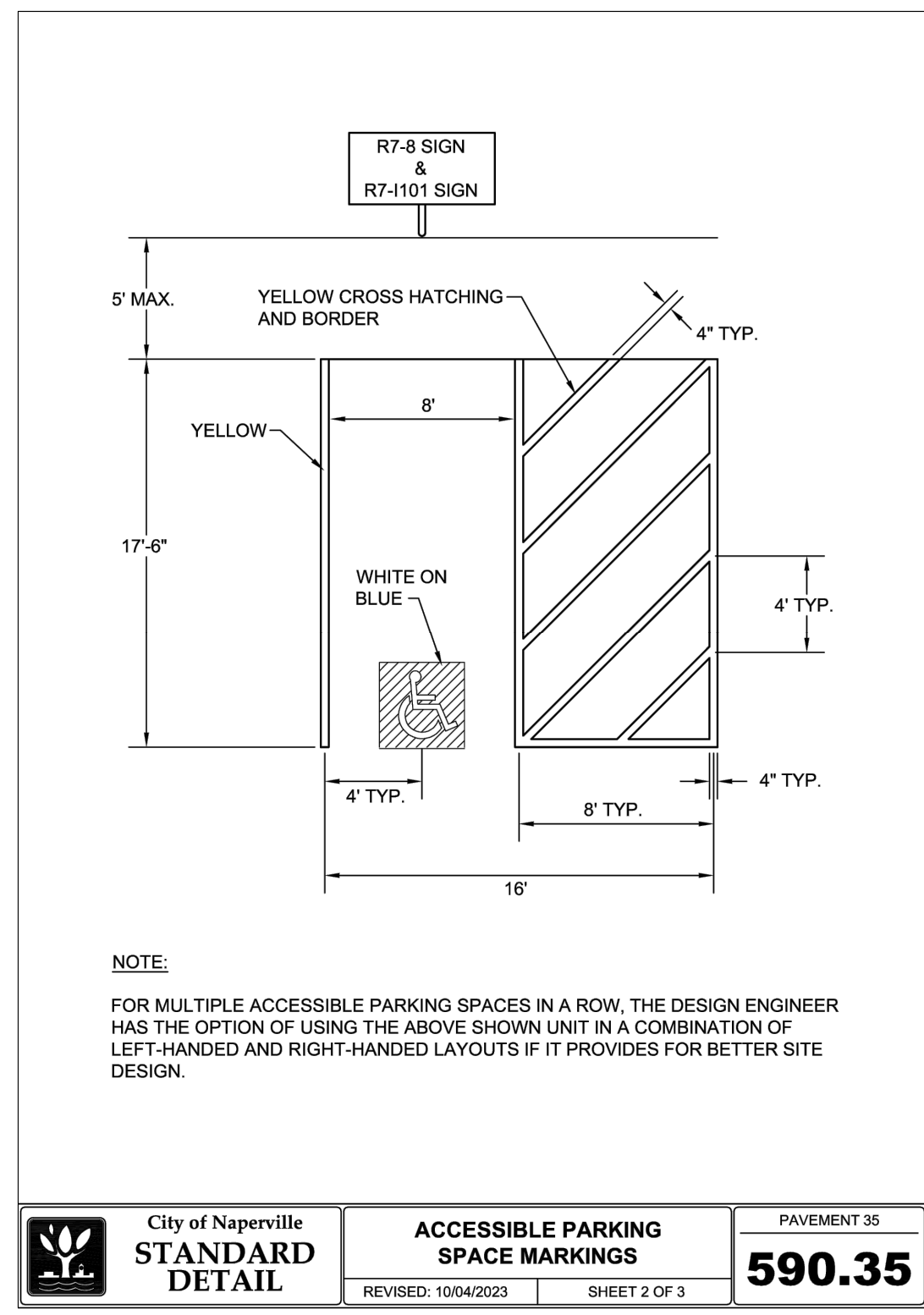
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Willow Bridge

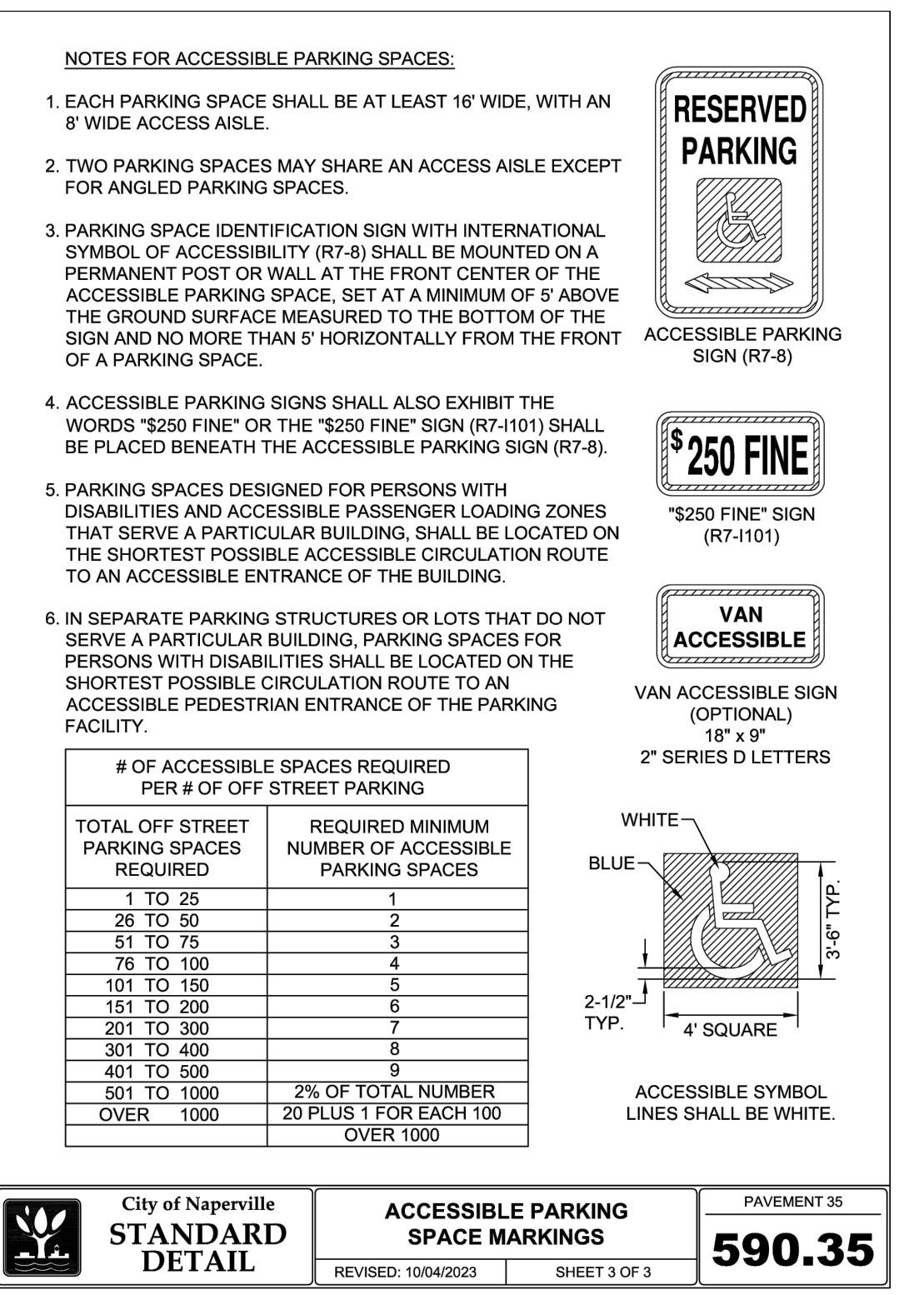
CITYGATE II CONSTRUCTION DETAILS

2180 CITYGATE LANE
NAPERVILLE, IL 60563

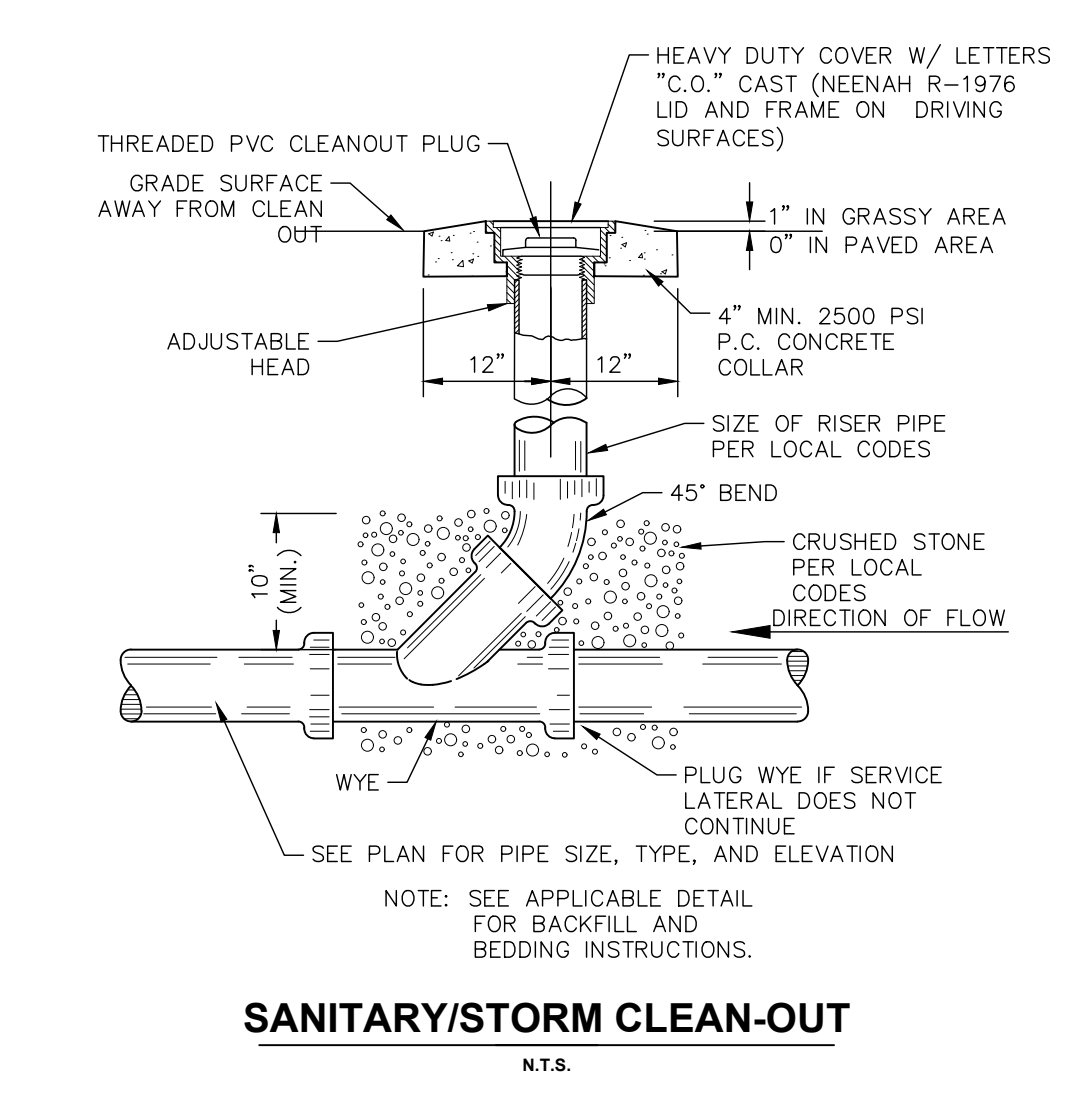
ORIGINAL ISSUE: 12/19/2025
KHA PROJECT NO. 268930001
SHEET NUMBER C6.0



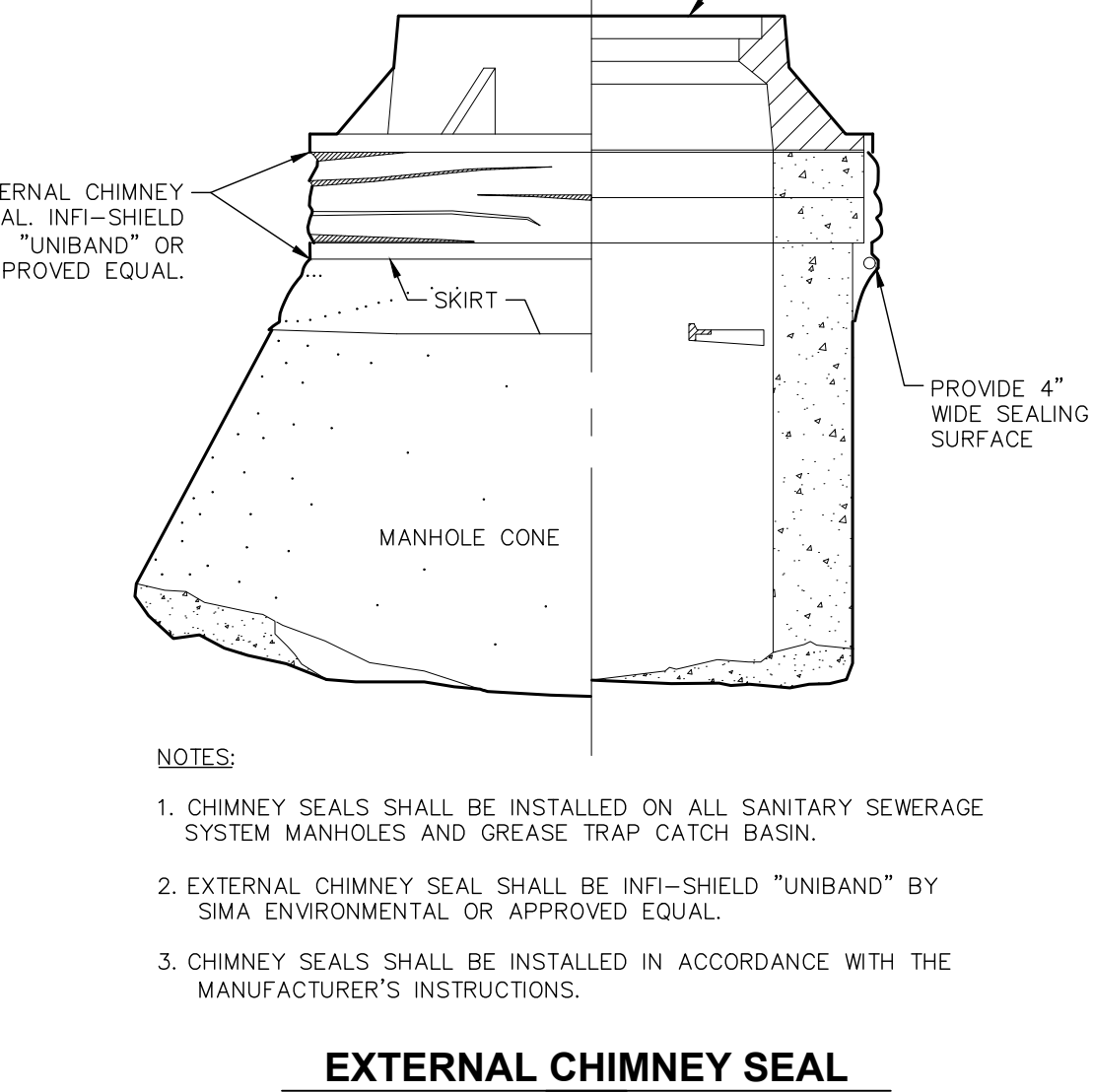
City of Naperville STANDARD DETAIL ACCESSIBLE PARKING SPACE MARKINGS SHEET 2 OF 3 590.35



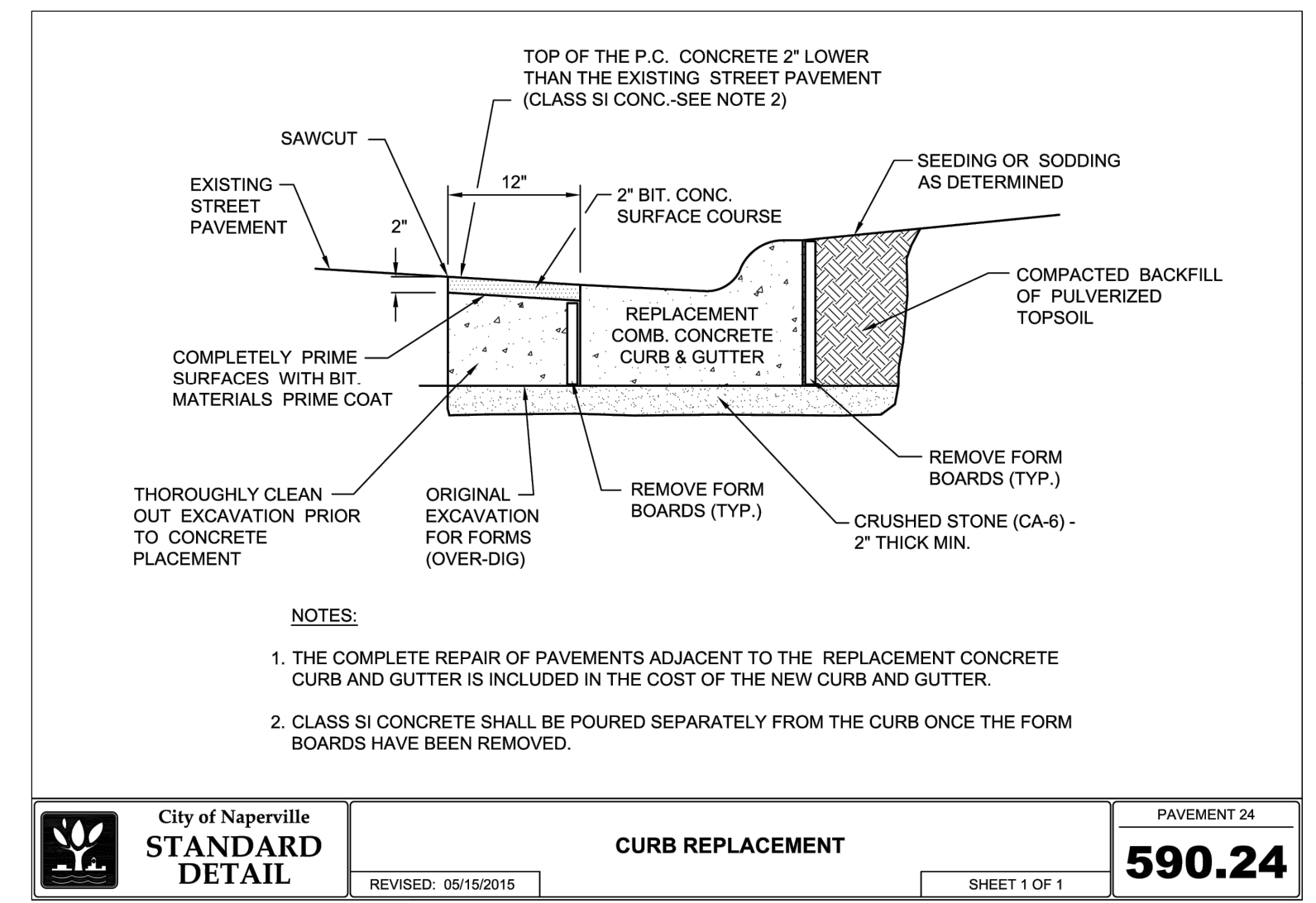
City of Naperville STANDARD DETAIL ACCESSIBLE PARKING SPACE MARKINGS SHEET 3 OF 3 590.35



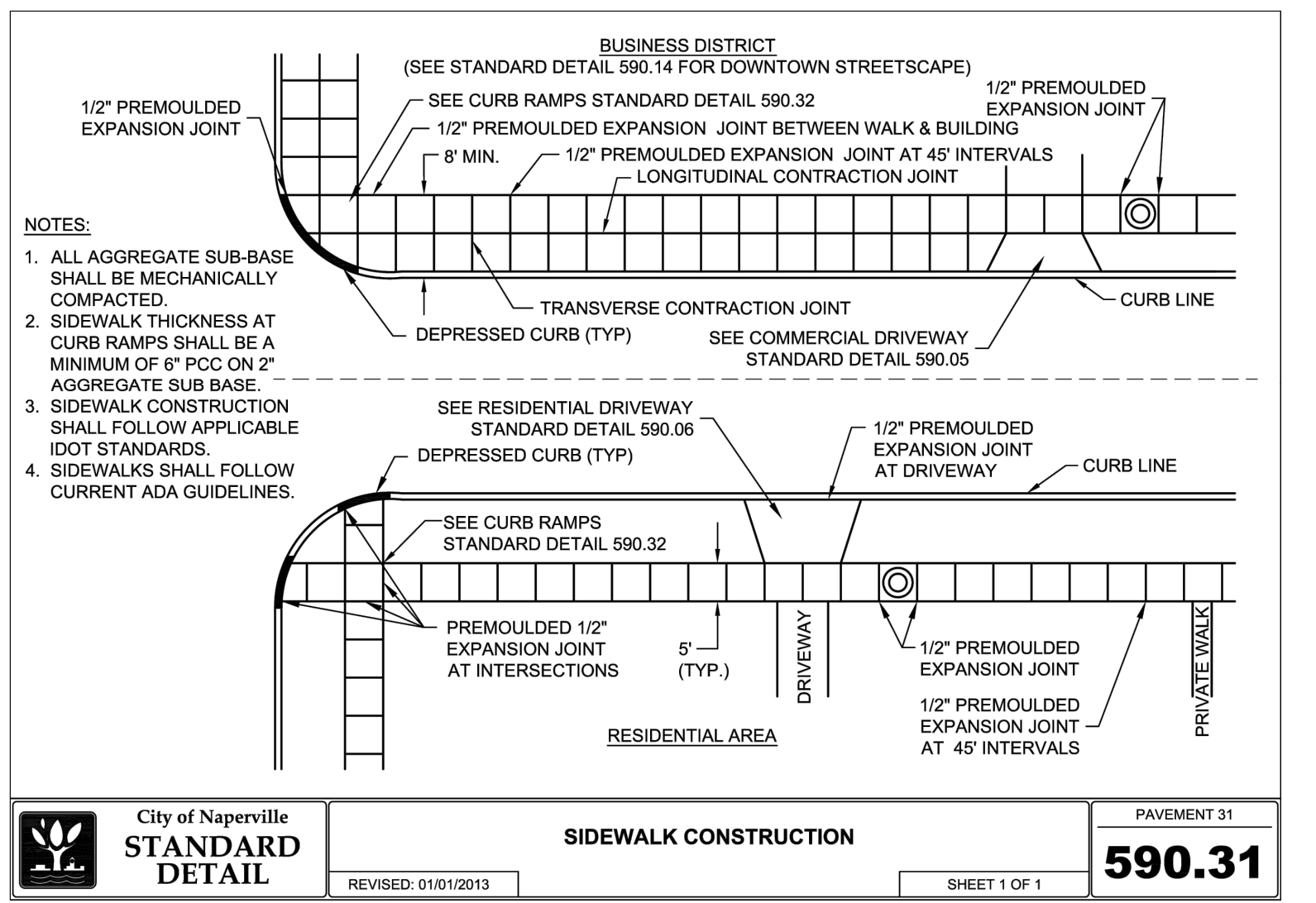
City of Naperville STANDARD DETAIL SANITARY/STORM CLEAN-OUT N.T.S.



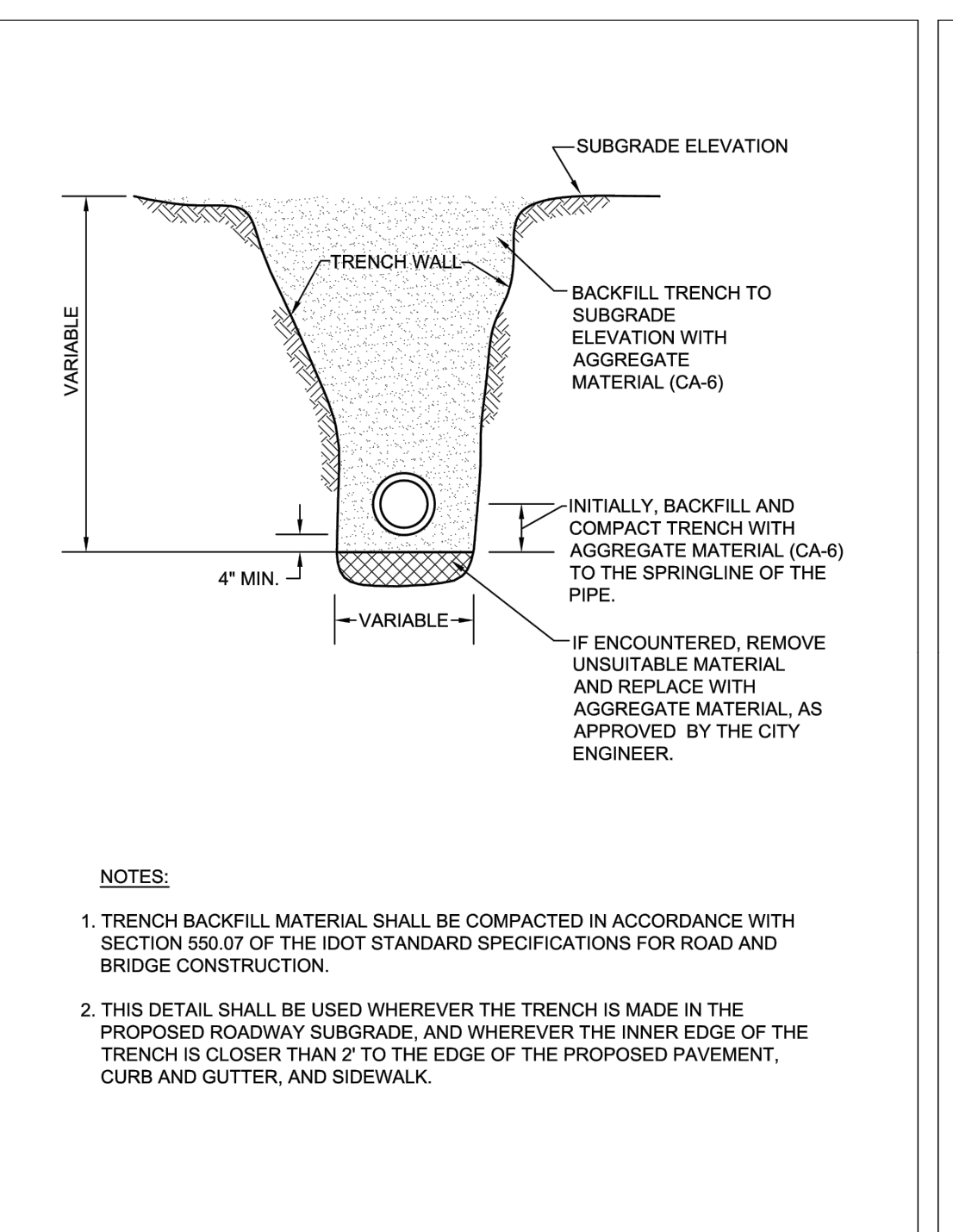
City of Naperville STANDARD DETAIL EXTERNAL CHIMNEY SEAL N.T.S.



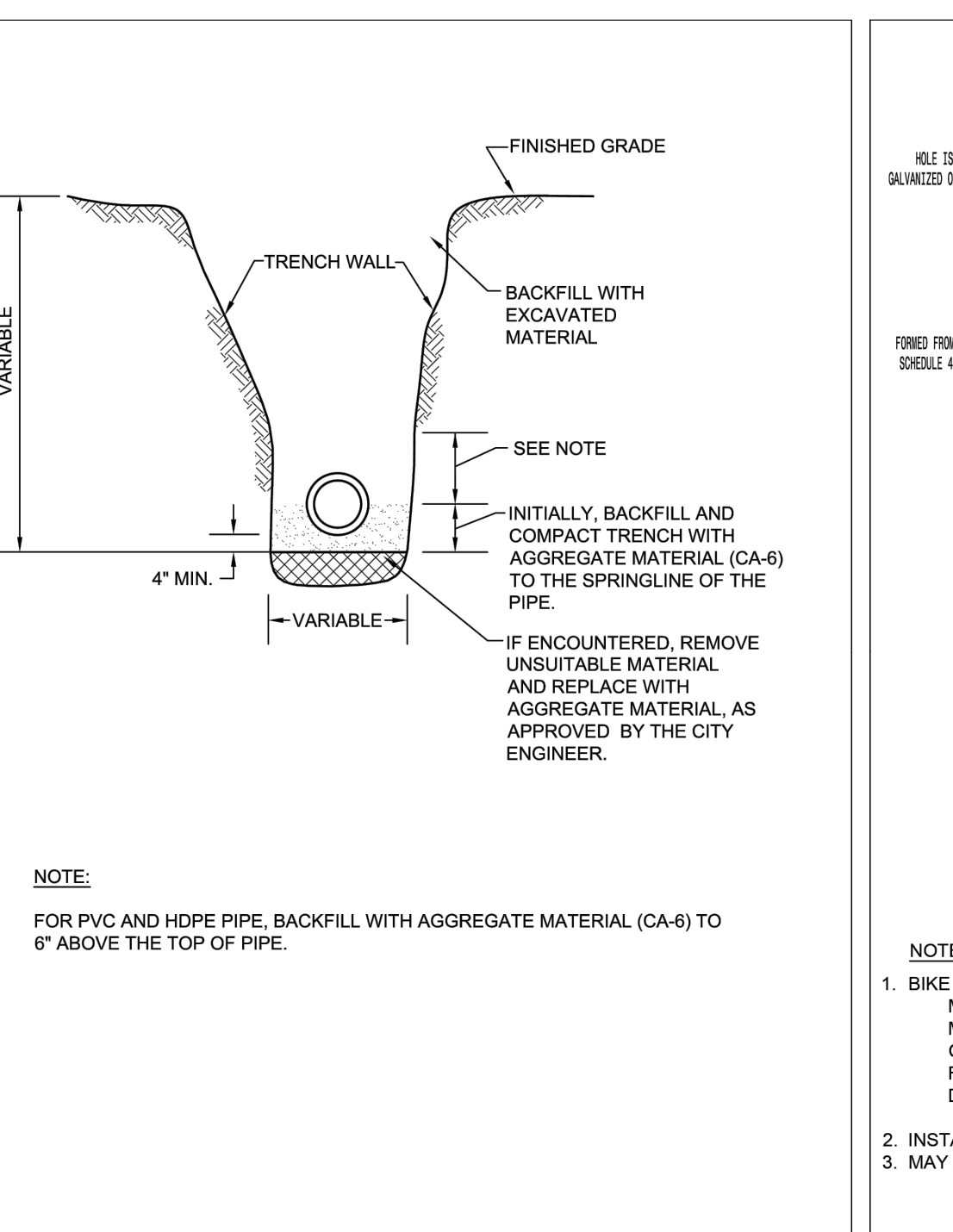
City of Naperville STANDARD DETAIL CURB REPLACEMENT SHEET 1 OF 1 590.24



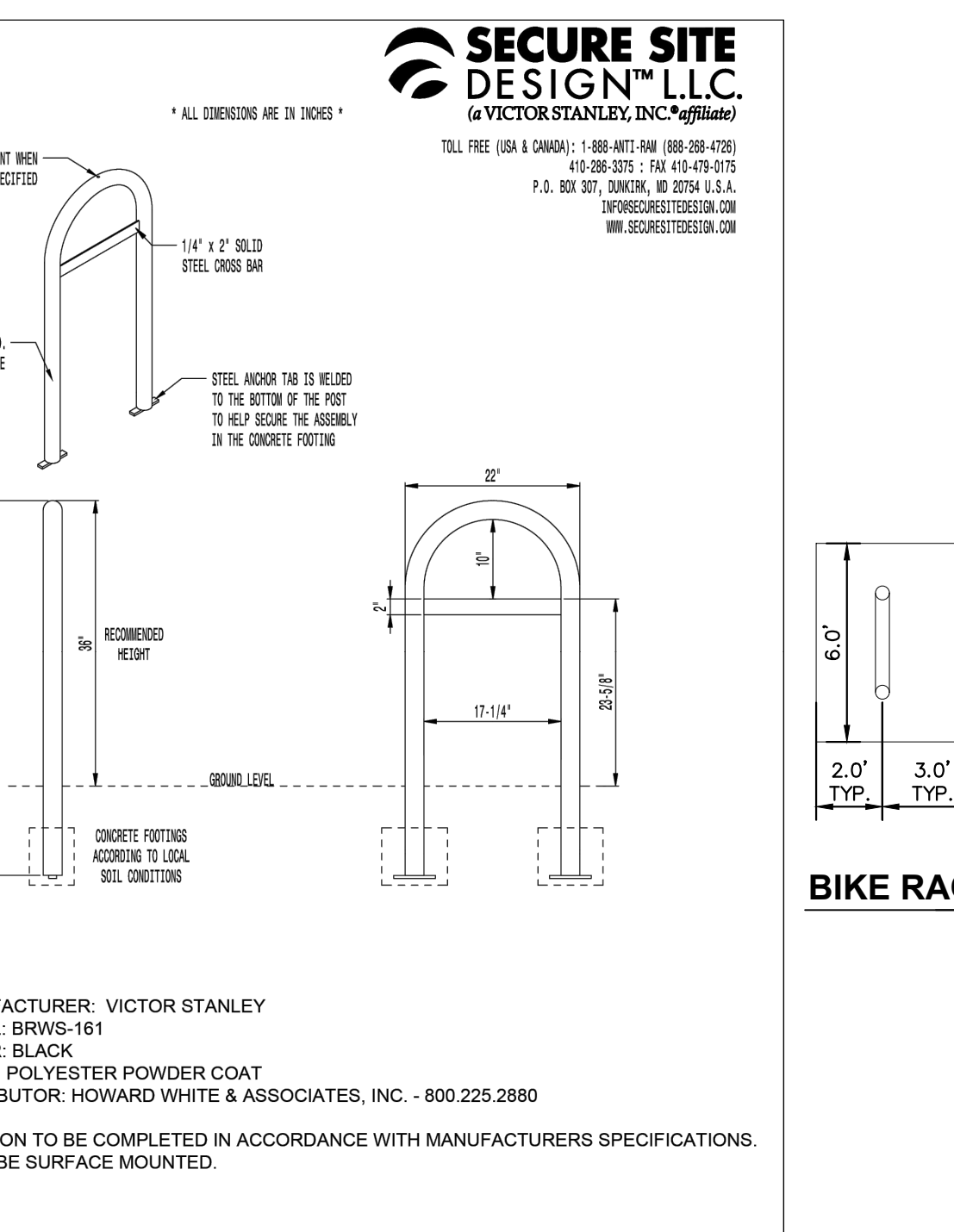
City of Naperville STANDARD DETAIL SIDEWALK CONSTRUCTION SHEET 1 OF 1 590.31



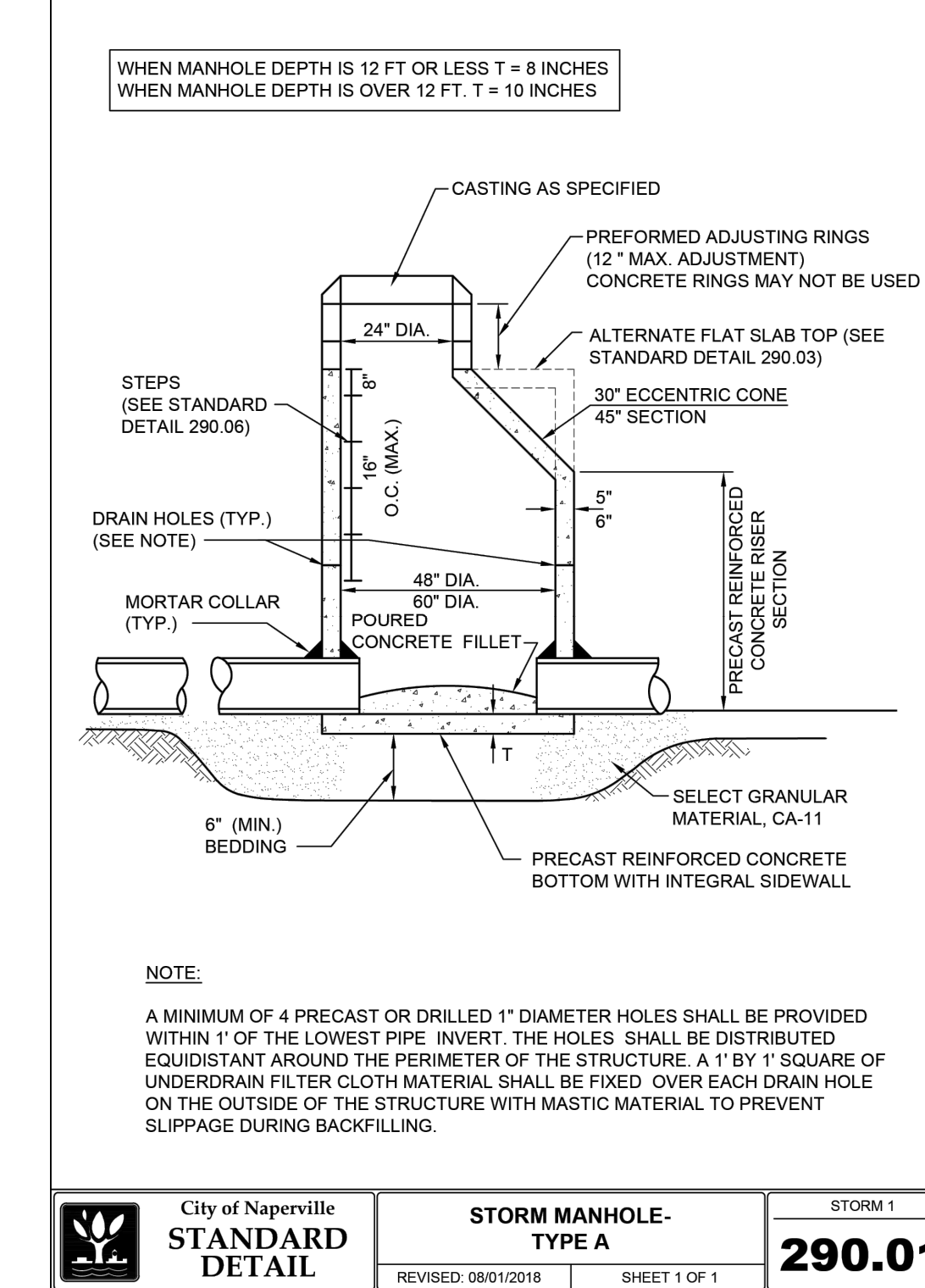
City of Naperville STANDARD DETAIL STORM SEWER TRENCH SECTION IN PAVED AREAS SHEET 1 OF 1 290.20



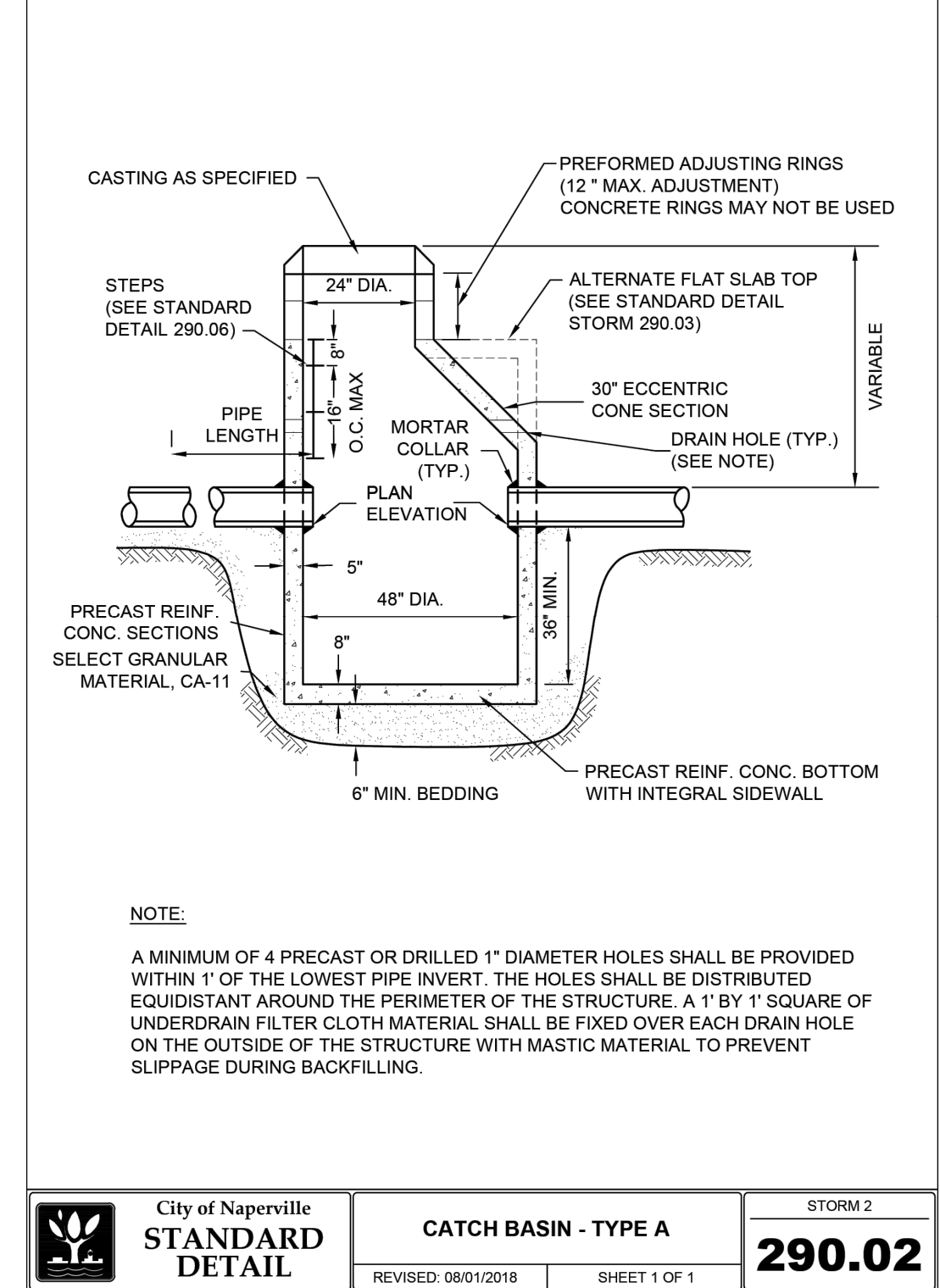
City of Naperville STANDARD DETAIL STORM SEWER TRENCH SECTION IN NON-PAVED AREAS SHEET 1 OF 1 290.21



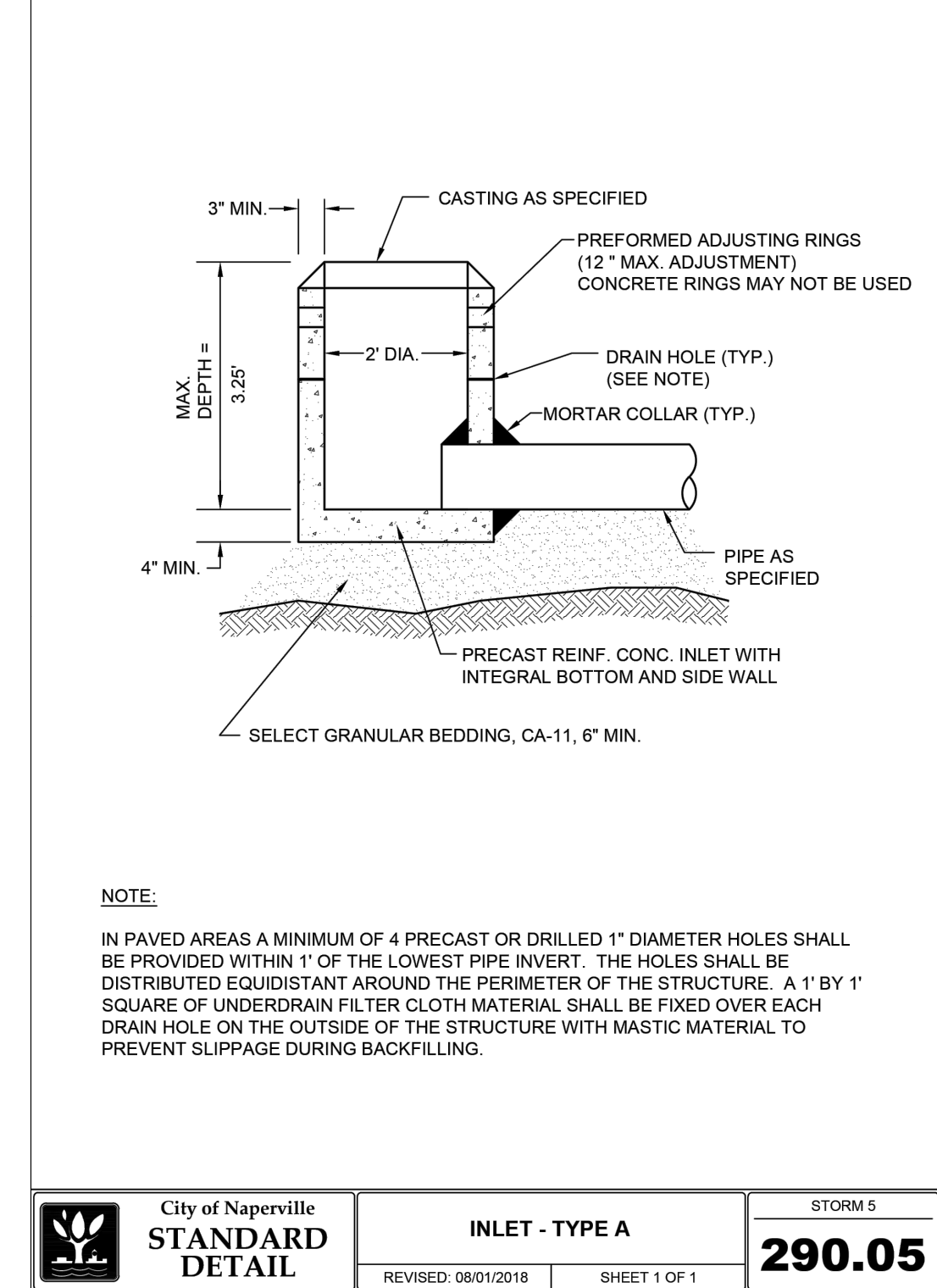
City of Naperville STANDARD DETAIL DOWNTOWN STREETScape FURNITURE - BIKE RACK SHEET 4 OF 7 590.16



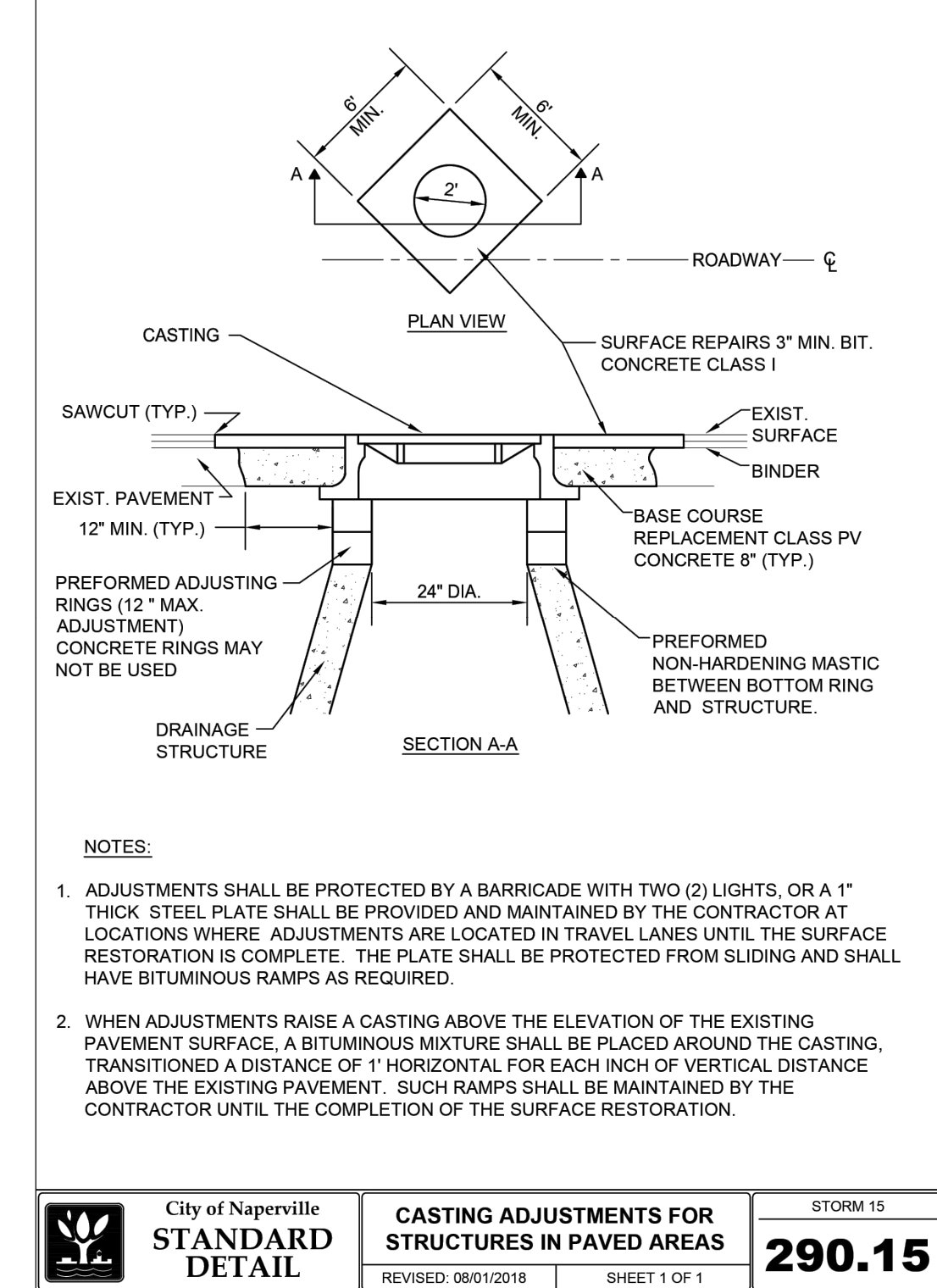
City of Naperville STANDARD DETAIL STORM MANHOLE - TYPE A SHEET 1 OF 1 290.01



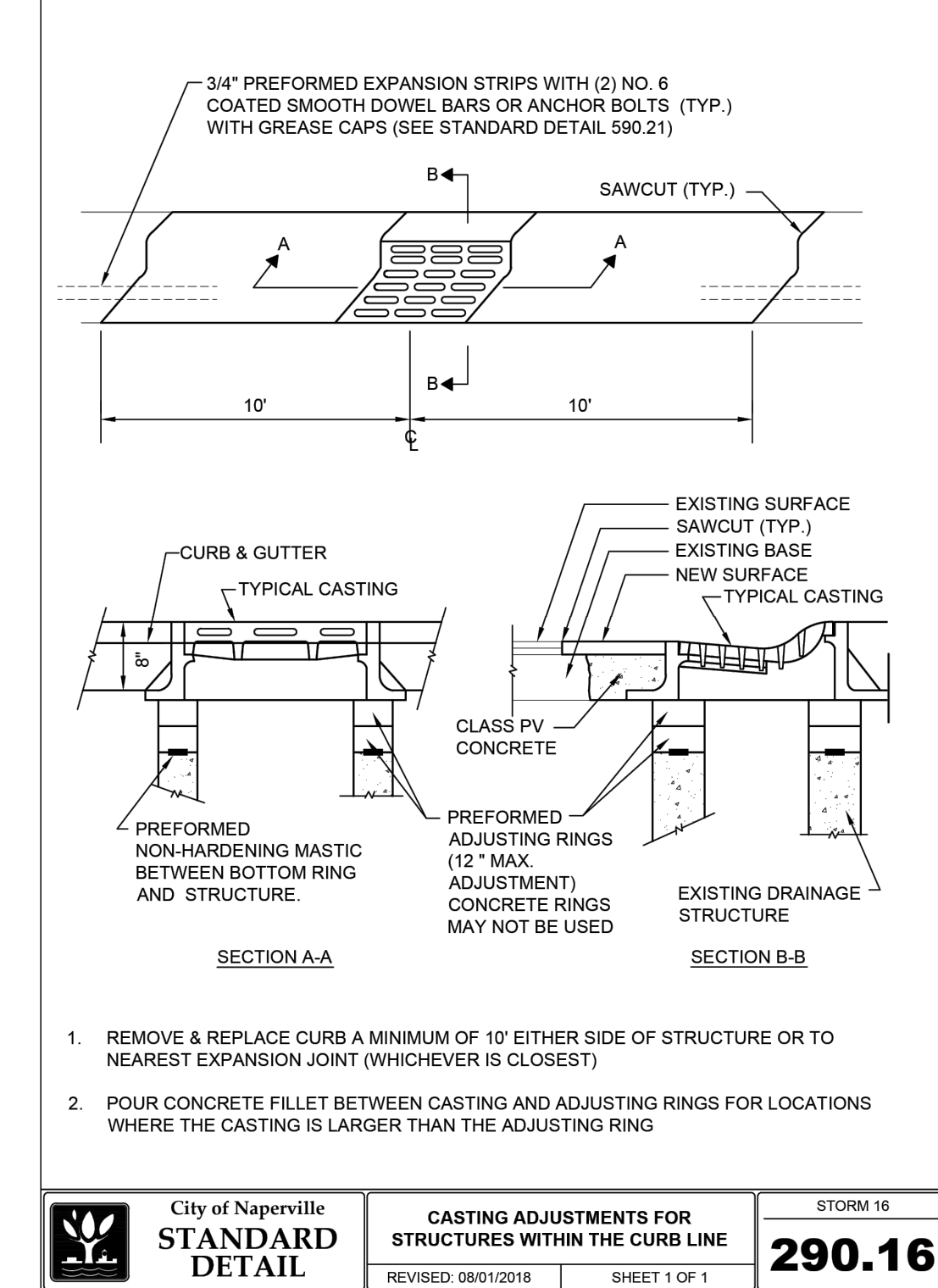
City of Naperville STANDARD DETAIL CATCH BASIN - TYPE A SHEET 1 OF 1 290.02



City of Naperville STANDARD DETAIL INLET - TYPE A SHEET 1 OF 1 290.05



City of Naperville STANDARD DETAIL CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS SHEET 1 OF 1 290.15



City of Naperville STANDARD DETAIL CASTING ADJUSTMENTS FOR STRUCTURES WITHIN THE CURB LINE SHEET 1 OF 1 290.16

Drawing name: K:\GIS\DEV\268930001\Willow Bridge_CityGate Phase 2_Naperville_IL_2 Design\CAD\PerSheet\CR6.0 - CONSTRUCTION DETAILS.dwg C6.1 May 05, 2026 8:39am
 by: OdoniLewis
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NO.	REVISIONS	DATE	BY
1	CITY COMMENTS	03/09/26	TRE
2	CITY COMMENTS	05/05/26	TRE

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SCALE: AS NOTED
 DESIGNED BY: OTL
 DRAWN BY: ARG
 CHECKED BY: TRE

Willow Bridge

CITYGATE II CONSTRUCTION DETAILS

2180 CITYGATE LANE
 NAPERVILLE, IL 60563

ORIGINAL ISSUE: 12/19/2025
 KHA PROJECT NO. 268930001
 SHEET NUMBER C6.1

SECTION A-A CAST FRAME GRAY IRON
WT. 250 lbs.

SECTION B-B CAST OPEN
LID WT. 25 lbs.

SECTION D-D GRAY IRON LID
WT. 150 lbs.

SECTION D-D OF DUCTILE IRON LID
WT. 125 lbs.

NOTES:

- FRAME AND GRATE (LID) SHALL BE NEENAH R-2502 FOR OPEN GRATES, R-1772 FOR CLOSED LIDS, EAST JORDAN 1022-2 WITH M-1 GRATE OR TYPE A SOLID COVER, OR EQUAL APPROVED BY THE CITY ENGINEER.
- ALL LIDS AND COVERS SHALL HAVE MACHINED SURFACES AND SEATS.
- ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
- ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE, DRAINS TO RIVER".

City of Naperville
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CAST FRAME AND GRATE GRAY IRON
TOTAL WT. 500 LBS.

NOTES:

- FRAME AND GRATE SHALL BE NEENAH R-3278-A, EAST JORDAN IRON 7220, OR EQUAL APPROVED BY THE CITY ENGINEER.
- ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
- SEE STANDARD DETAIL 590.20 FOR CORRESPONDING CURB.
- ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE, DRAINS TO RIVER".

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BEEHIVE GRATE

NOTES:

- BEEHIVE GRATE SHALL BE NEENAH R4340B, EAST JORDAN 6527, OR EQUAL APPROVED BY THE CITY ENGINEER.
- ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
- ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE, DRAINS TO RIVER".

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GRATING FOR CONCRETE FLARED END SECTION

NOTES:

- STRUCTURAL STEEL SHAPES AND PLATES SHALL BE IN ACCORDANCE WITH ARTICLE 710.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- GALVANIZED STEEL PLATE SHALL BE IN ACCORDANCE WITH ARTICLE 710.33 (B) OF THE STANDARD SPECIFICATIONS.
- BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 710.33 (G) OF THE STANDARD SPECIFICATIONS.
- ALL FABRICATION SHALL BE COMPLETED AND ASSEMBLED BEFORE GALVANIZING.
- THE CORED HOLES IN THE PRECAST CONCRETE FLARED END SECTIONS SHALL BE TO THE DIAMETERS NOTED, IF COME-OUT ON THE OTHER END OF THE HOLE OCCURS, THE HOLE SHALL BE FILLED WITH GROUT TO CORRECT DIAMETER OF THE HOLE.
- ALL FLARED END SECTIONS FOR PIPE GREATER THAN 12" IN DIAMETER SHALL BE PROVIDED WITH A GRATE.
- GRATES SHALL BE CONSTRUCTED TO PROVIDE 8" VERT. X 3" HORIZ. CLEAR SEPARATION BETWEEN BARS.

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SANITARY SEWER MANHOLE

NOTES:

- ALL SANITARY MANHOLES SHALL BE TESTED FOR LEAKS BY WADING TESTING PER SECTION 302.1.3 OF THE STANDARD SPECIFICATIONS (12" MAX. ADJUSTMENT) NOT BE ACCEPTABLE.
- PREFORMED NON-HARDENING BITUMINOUS MASTIC MATERIAL, CONCRETE CS-102B, OR APPROVED EQUAL BETWEEN BOTTOM RING AND STRUCTURE.
- EXTERNAL CHIMNEY SEAL (OPTIONAL).
- PREFORMED ADJUSTING RINGS PER SECTION 302.1.3 OF THE STANDARD SPECIFICATIONS (12" MAX. ADJUSTMENT).
- ECCENTRIC CONE SECTION.
- STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 3/8" X 1/4" (1818-05A OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT. MEETING OR EXCEEDING ASTM C478-05 AND CSA STANDARDS.
- CA-6 TRENCH BACKFILL REQUIRED AROUND MANHOLE IN PAVED AREAS AND UNDER SIDEWALKS. MANHOLE TO REMAIN AT SUBGRADE ELEVATION. RUBBER BOOT CONFORMING TO ASTM C923-02 OR LATEST REVISION (KOR-N-SEAL OR APPROVED EQUAL).
- POURED CONCRETE FILLET TO TOP OF PIPE 2% SLOPE (TYP.).
- PROVIDE CONCRETE FILLET FOR ALL SANITARY MANHOLE INVERTS.
- PRECAST REINFORCED CONCRETE MANHOLE BOTTOM WITH INTEGRAL SIDEWALL.
- CA11 AGGREGATE.

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SANITARY MANHOLE - DOG HOUSE CONNECTION

NOTES:

- PREFORMED NON-HARDENING BITUMINOUS MASTIC MATERIAL, CONCRETE CS-102B, OR APPROVED EQUAL BETWEEN BOTTOM RING AND STRUCTURE (ONLY ONE SIDE SHOWN FOR CLARITY).
- RX WATERSTOP OR APPROVED EQUAL INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- PREFORMED ADJUSTING RINGS PER SECTION 302.1.3 OF THE STANDARD SPECIFICATIONS (12" MAX. ADJUSTMENT).
- ECCENTRIC CONE SECTION.
- STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 3/8" X 1/4" (1818-05A OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT. MEETING OR EXCEEDING ASTM C478-05 AND CSA STANDARDS.
- INSIDE MANHOLE DUCTILE IRON LID, GREY IRON CL 35 LID MAY BE USED.
- INSIDE MANHOLE DUCTILE IRON LID, GREY IRON CL 35 LID MAY BE USED.
- POURED CONCRETE FILLET MONOLITHICALLY WITH DOGHOUSE OPENINGS 2% SLOPE (TYP.).
- PRECAST REINFORCED CONCRETE MANHOLE BOTTOM.
- RUBBER BOOT CONSTRUCTED OF 30# RUBBER WITH 304 OR 316 SERIES STAINLESS STEEL CONNECTORS (KOR-N-SEAL BY NRC, PSX BY PRESS-SEAL GASKET CORPORATION, OR APPROVED EQUAL).
- NOTE: DOGHOUSE OPENING IN PRECAST UNIT ARE TO BE 4" MIN. TO 6" MAX LARGER THAN THE OUTSIDE DIAMETER OF THE EXISTING PIPE.

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SANITARY MANHOLE - FRAME & COVER

NOTES:

- DUCTILE IRON SHALL BE GRADE 65-45-12 AND SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
- ALL FRAMES AND COVERS SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES SHALL NOT CREATE OPENINGS IN THE COVER.
- THE MANHOLE COVERS SHALL HAVE 2" RAISED LETTERS AS SHOWN.
- ALTERNATIVE TO DUCTILE IRON LID, GREY IRON CL 35 LID MAY BE USED.
- CASTINGS ARE SHALL BE EAST JORDAN 1022-23, NEENAH R-1772 OR APPROVED EQUAL.
- WATERPROOF: BOLTDOWN FRAME AND COVER SHALL BE USED IN FLOOD PLAIN AREA, AND AS NOTED ON THE PLANS. NEENAH R-1916-F1, EAST JORDAN IRON WORKS 1022-21PT OR APPROVED EQUAL.
- LIDS AND FRAMES TO MEET ASSHTO M306 PROOF LOADING SPECIFICATIONS.

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TRENCH SECTION FOR PVC PIPE

NOTES:

- IN PAVED AREAS, ALL TRENCHES MUST BE COMPACTED IN CONFORMANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
- IF FOUNDATION IS UNSUITABLE TO BED PIPE, UNDERCUTS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

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VALVE VAULT

NOTES:

- VALVE MUST ALIGN WITH THE CENTER OF VAULT OPENINGS.
- CONCENTRIC CONES TO BE USED FOR VALVES 12" AND SMALLER.
- VALVES SHALL BE RESILIENT WEDGE GATE VALVES WITH MECHANICAL JOINT ENDS TO COMPLY WITH ANSI/AWWA C515-09 OR LATEST VERSION VALVES TO BE CLOW, AMERICAN, WATEROUS, KENNEDY OR APPROVED EQUAL.
- ALL RINGS SHALL BE HIGH DENSITY POLYETHYLENE PLASTIC (HDPE), RECYCLED RUBBER, HIGH DENSITY EXPANDING POLYSTYRENE, EXPANDED POLYPROPYLENE (EPP), OR OTHER MATERIAL AS APPROVED BY THE CITY ENGINEER. PRECAST CONCRETE RINGS, BRICKS, ROCKS, SHIMS, OR CONCRETE BLOCKS WILL NOT BE ALLOWED. TAPERED ADJUSTING RINGS SHALL BE REQUIRED WHEN THE FRAME WILL NEED TO MATCH THE SLOPE OF THE ROADWAY.

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VALVE VAULT - FRAME & COVER

NOTES:

- DUCTILE IRON SHALL BE GRADE 65-45-12 AND SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
- ALL FRAMES AND COVERS SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES SHALL NOT CREATE OPENINGS IN THE COVER.
- THE MANHOLE COVERS SHALL HAVE RAISED LETTERS AS SHOWN.
- ALTERNATIVE TO DUCTILE IRON LID, GREY IRON CL 35 LID MAY BE USED.
- DIMENSIONS FOR CASTINGS ARE COMPARABLE TO EAST JORDAN 1022 OR NEENAH R-1772-C, HEAVY DUTY.
- LIDS AND FRAMES TO MEET ASSHTO M306 PROOF LOADING SPECIFICATIONS.

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490.04

HYDRANT

NOTES:

- CHAIN AND CHAIN HOOKS SHALL BE REMOVED FROM HYDRANT.
- HYDRANT SHALL BE FACTORY PAINTED WITH 2 COATS OF TMEC VERSATONE 82 HS (OR APPROVED EQUAL) SAFETY ORANGE.
- ALL FASTENERS/HARDWARE BELOW GRADE SHALL BE STAINLESS STEEL (GRADE 304 MIN.).
- PERMITTED TYPES:
 - WATEROUS PACER WB-67 5-1/4"
 - CLOW MEDALLION 5-1/4"
 - MUELLER A-423 5-1/4"
- 5" MINIMUM SETBACK FROM CURB FROM EDGE OF DRIVEWAY 1" MIN. SETBACK FROM EDGE OF WALKS FINISHED GRADE.
- PROVIDE 6" CAST IRON AUXILIARY VALVE & VALVE BOX (SEE STANDARD WATER 3).
- MEGALUX 1100 SERIES OR FORD BLOCKBUSTER 1400, WITH 304 S.S. T-BOLTS & ANTI-SIZE COMPOUND.
- CONCRETE BLOCKS AT BOTTOM BACK AND BOTH SIDES TO HOLD HYDRANT SOLID AND VERTICAL. CONCRETE AND POLYETHYLENE ENCASMENT SHOULD NOT BLOCK DRAIN HOLES.
- FINISHED GRADE.
- BACKFILL WITH EXCAVATED MATERIAL EXCEPT WHERE GRANULAR MATERIAL IS REQUIRED (CA-6).
- ANGLE OF REPOSE AS CALCULATED BY OSHA FOR SLOPING EXCAVATIONS IN VARIOUS TYPES OF SOIL (AVG. SOIL 1:1 SLOPE). NOTE THAT PORTABLE TRENCH BOXES OR SLIDING TRENCH SHIELDS MAY BE USED IN LIEU OF SLOPING.
- PROVIDE UNIFORM PIPE SUPPORT.
- MIN 4" CA-11 BEDDING TO PROVIDE PIPE SUPPORT.
- IF ENCOUNTERED, REMOVE UNSUITABLE MATERIAL AND REPLACE WITH GRANULAR MATERIAL AS DIRECTED BY THE CITY ENGINEER.
- TRENCH WIDTH SHALL BE AS SPECIFIED IN PLANS.
- UNDISTURBED EARTH.
- POLYETHYLENE ENCASE PIPE.
- BREAKAWAY FLANGE TO BE APPROX. 2" ABOVE GROUND LEVEL.
- 6" D.I.P.
- 5' MINIMUM COVER.
- CRUSHED STONE OR COARSE GRAVEL, MINIMUM 1/2 CU. YD. CA-11.

City of Naperville
STANDARD DETAIL
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490.06

WATER MAIN TRENCH SECTION

NOTES:

- IN PAVED AREAS ALL TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. METHOD 1.95% MINIMUM STANDARD PROCTOR.
- DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM. POLYETHYLENE ENCASMENT TO BE INSTALLED IN ACCORDANCE WITH ANAWAC105A21-5-99 (OR LATEST EDITION).
- STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIRED WITH FIELD-APPLIED, APPROVED ANTI-SIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEZ OR APPROVED EQUAL.

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THRUST BLOCK

NOTES:

- THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, TEES, CAPS, VALVES, HYDRANTS, & AT POINTS SPECIFIED BY THE ENGINEER SHALL BE CLASS "SI".
- CONCRETE A MINIMUM OF 12" THICK, PLACED BETWEEN SOLID GROUND & THE FITTING, AND SHALL BE ANCHORED IN SUCH A MANNER THAT THE PIPE AND FITTING WILL BE ACCESSIBLE FOR REPAIRS.
- THRUST BLOCKS SHALL BE PLACED AT BENDS OF 11-1/4" OR MORE.
- PIPE BENDS TO BE POLYETHYLENE ENCASED.
- JOINT RESTRAINT AT BEND AND LENGTH OF PIPE EACH DIRECTION FROM BENDS AS REQUIRED BY THE CITY OF NAPERVILLE IF UNDISTURBED SOIL NOT AVAILABLE.
- THRUST BLOCK FOR PIPES LARGER THAN 12" MUST BE POURED IN PLACE.

City of Naperville
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Drawing name: C:\GIS_Library\268930001\Willow Bridge_CityGate Phase 2_Naperville_IL_2 Design\CAD\Plan\Details\CR.2 - CONSTRUCTION DETAILS.dwg C6.2 May 05, 2026 8:39am
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Willow Bridge

CITYGATE II CONSTRUCTION DETAILS
 2180 CITYGATE LANE
 NAPERVILLE, IL 60563

ORIGINAL ISSUE:
 12/19/2025
 KHA PROJECT NO.
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TRE:	

