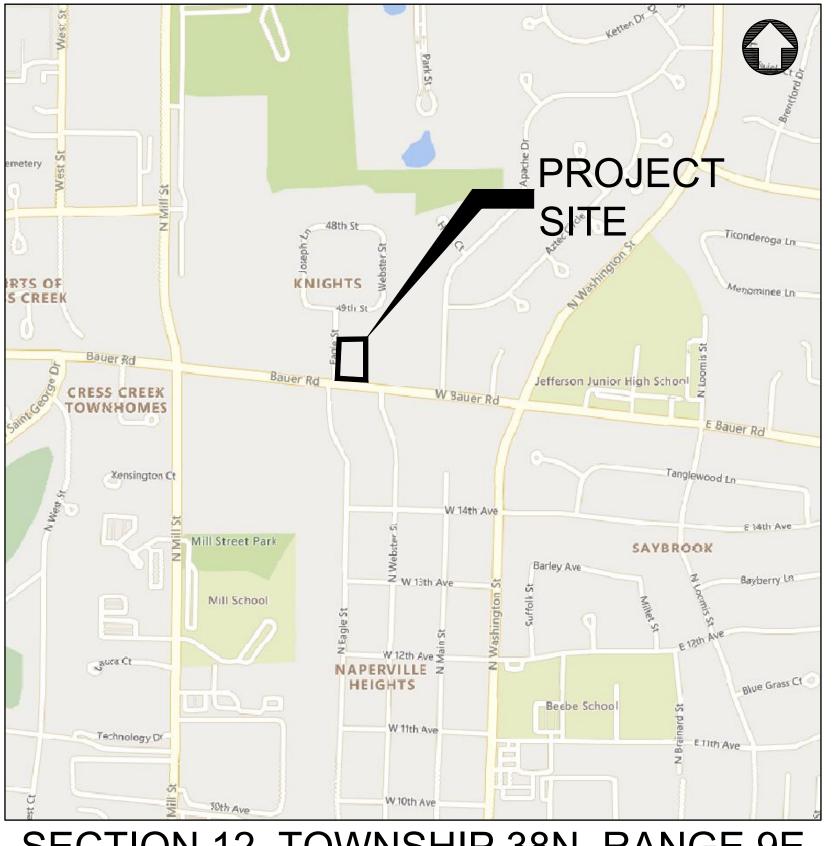
PROPOSED IMPROVEMENTS FOR

ADLER POINT

27W130 BAUER ROAD, NAPERVILLE, IL

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C0.0	SITE LOCATION MAP & CIVIL LEGEND
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C0.2	NAPERVILLE GENERAL NOTES & SPECIFICATIONS
C1.0	EXISTING CONDITIONS & DEMOLITION PLAN
C1.1	SITE LAYOUT PLAN
C2.0	SITE GRADING PLAN
C2.1	SOIL EROSION & SEDIMENT CONTROL PLAN
C3.0	SITE UTILITY PLAN
C3.1	SANITARY PLAN & PROFILE
C4.0	CONSTRUCTION DETAILS
C4.1	CONSTRUCTION DETAILS
C4.2	CONSTRUCTION DETAILS

LOCATION MAP



SECTION 12, TOWNSHIP 38N, RANGE 9E

PHONE: 630.598.0007

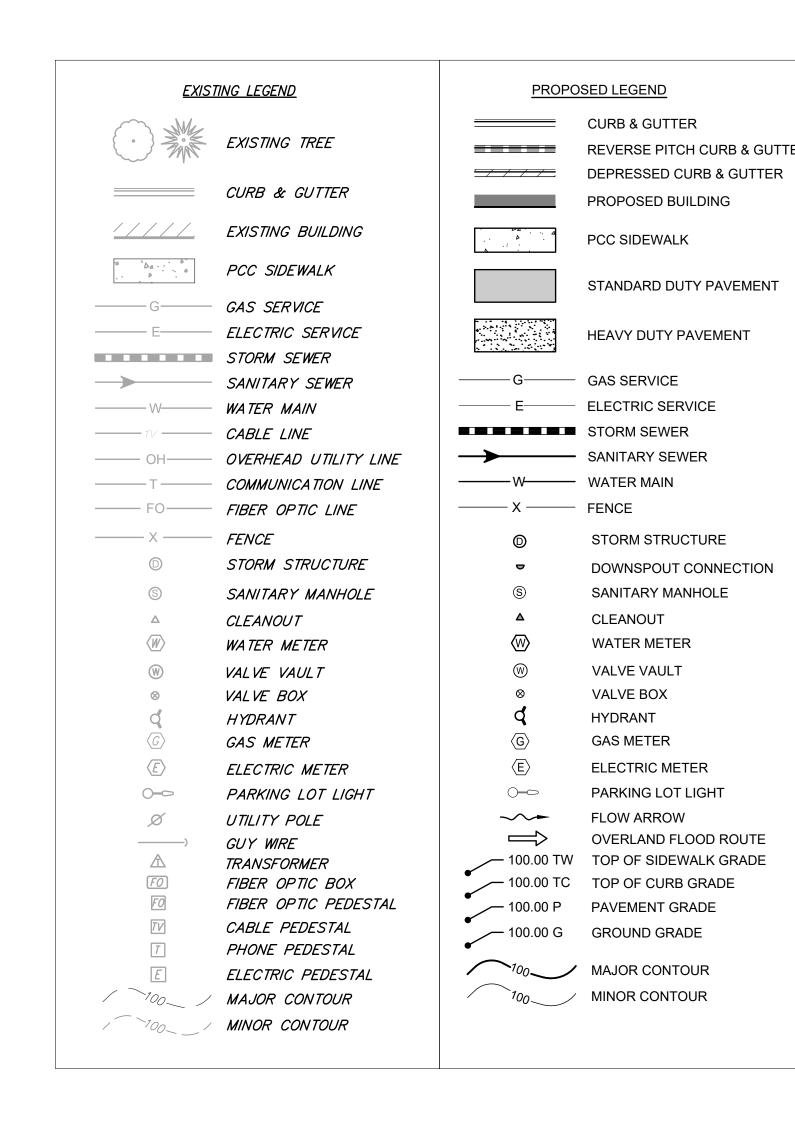
FREDERICK THAETE

OWNER/DEVELOPER SCOTT BARENBRUGGE

2704 SAN LUIS CT NAPERVILLE, IL 60565 PHONE: 630.607.9789

ENGINEER CAGE ENGINEERING 3110 WOODCREEK DR. DOWNERS GROVE, IL 60515

LANDSCAPE
LG WORKSHOP,LLC
2324 W ARMITAGE AVE
CHICAGO, IL 60647
PHONE: 773.484.0119
LARRY GLASSCOCK



BENCHMARKS:

REFERENCE BENCHMARK #1: NGS PID: AA3789 (NAPERVILLE 703)
STAINLESS STEEL ROD IN SLEEVE WITH CAST CAP LOCATED IN THE
RIGHT-IN-RIGHT OUT ENTRANCE TO THE OGDEN MALL SHOPPING CENTER, IN
THE NORTH ROW OF OGDEN AVENUE, 15 FEET NORTH OF THE OGDEN AVENUE
BACK OF CURB, 0.9 FEET NORTHERLY OF THE NORTH EDGE OF SIDEWALK.
ELEVATION: 780.31

DATUM: NAVD88-GEOID 12B

REFERENCE BENCHMARK #2: NGS PID: DH5804 (NAPERVILLE 1008)
STAINLESS STEEL ROD IN SLEEVE WITH CAST CAP LOCATED AT THE
NORTHEAST CORNER OF SHUMAN BLVD AND MILL STREET.
ELEVATION: 738.96 DATUM: NAVD88-GEOID 12B

SITE BENCHMARK 1:

SOUTHEAST BOLT OF FIRST HYDRANT SOUTH OF THE INTERSECTION OF EAGLE DRIVE AND 49TH STREET, LOCATED IN THE EAST ROW OF EAGLE DRIVE.

ELEVATION: 731.75

DATUM: NAVD88-GEOID 12B

SITE BENCHMARK 2:

CUT SQUARE AT THE NORTHWEST CORNER OF A CONCRETE CULVERT LOCATED ON THE WEST SIDE OF RESIDENTIAL DRIVE TO PROPERTY 27W122 BAUER ROAD.

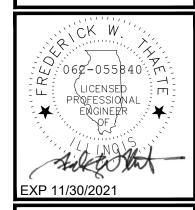
ELEVATION: 719.01 DATUM: NAVD88-GEOID 12B





3110 WOODCREEK DRIVE DOWNERS GROVE, IL 60515 P: 630.598.0007 WWW.CAGECIVIL.COM





REVISIONS A

O7.30.21 REVISED PER CITY
COMMENTS
O9.02.21 REVISED PER CITY
COMMENTS

10.29.21 REVISED TO 3 LOTS

11.15.21 REVISED PER CITY
COMMENTS

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CAGE ENGINEERING, INC.

ADLER POINT

PROJ NO:210015
ENG: AMS

OATE: 05/26/21

SHEET TITLE

SITE LOCATION

MAP & CIVIL

LEGEND

CO.0

1 OF 12

GENERAL REQUIREMENTS:

- 1. ALL WORK SHALL BE IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (HEREIN AFTER REFERRED TO AS STANDARD SPECIFICATIONS) ADOPTED APRIL 1, 2016 AND SUPPLEMENTAL SPECIFICATIONS. WITHIN THE STANDARD SPECIFICATIONS, ARTICLES 105.01, 105.09, 105.10, 105.11, 105.12, 105.13 AND SECTION 109 SHALL NOT BE INCORPORATED INTO THIS CONTRACT.
- 2. SCOPE OF WORK: THE PROPOSED IMPROVEMENTS CONSIST OF SUPPLYING ALL THE NECESSARY LABOR, MATERIAL AND EQUIPMENT TO SATISFACTORILY CONSTRUCT AND INSTALL ALL IMPROVEMENTS ACCORDING TO THE PLANS DESIGNATED HEREIN.
- 3. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO LOCATE AND PROTECT ALL UNDERGROUND FACILITIES/UTILITIES DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS AND CONTACT THE OWNER. ANY DAMAGE TO ANY UTILITIES SHALL BE PROMPTLY REPORTED TO THE OWNER. REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE UNDERGROUND UTILITIES SHOWN HEREIN ARE APPROXIMATE AND BASED ON THE ACTUAL LOCATION OF SURFACE STRUCTURES AND PLANS PROVIDED BY THE OWNER. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS.
- 4. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED HAZARD WARNING LIGHTS, DELINEATOR FENCE, AND OTHER ASSOCIATED FACILITIES AS REQUIRED FOR OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCK PILES, AND PARKED CONSTRUCTION EQUIPMENT THAT MAY POSE A POTENTIAL HAZARD AS PART OF THE DAILY OPERATIONS AT THIS SITE. CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY.
- 5. CONTRACTOR SHALL CONTINUOUSLY COMPARE ALL LINES, GRADES, AND OTHER INFORMATION APPEARING ON THE PLANS WITH THE ACTUAL LINES, GRADES, AND SITE CONDITIONS. ANY DISCREPANCIES THAT MAY AFFECT THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED TO THE OWNER AND ENGINEER IN WRITING FOR DISPOSITION BEFORE CONTRACTOR PROCEEDS WITH THE WORK. CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE WORK COMPLETED PRIOR TO THE REPORT TO THE OWNER AND ENGINEER, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION OF THE WORK PRIOR TO THE REPORT TO THE OWNER AND ENGINEER.
- 6. CONTRACTOR PARKING AND LAYDOWN AREAS SHALL BE COORDINATED WITH THE OWNER.
- 7. PRIOR TO PERFORMING ANY WORK IN OR ON THE RIGHT OF WAY OF ANY CITY OR STATE ROADWAY, THE CONTRACTOR SHALL NOTIFY THE CITY / STATE TRAFFIC ENGINEER'S OFFICE. THE CONTRACTOR SHALL ERECT WARNING SIGNS AND BARRICADES TO PROTECT THE TRAVELING PUBLIC AND HIS WORKERS. THE SIGNING AND BARRICADING SHALL CONFORM TO THE APPROPRIATE APPLICATIONS OUTLINED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR AS OTHERWISE DIRECTED BY THE CITY / STATE TRAFFIC ENGINEER. IF PERMITS ARE REQUIRED TO CONDUCT THE WORK, THE CONTRACTOR SHALL SECURE THE PERMITS AND SUPPLY THEM TO THE OWNER AT NO ADDITIONAL COST. ALL FULL WIDTH LANE CLOSURES, PARTIAL LANE CLOSURES, AND CONSTRUCTION ADJACENT TO PAVEMENT SHALL BE IDENTIFIED, SIGNED, AND BARRICADES ERECTED IN CONFORMANCE WITH THE APPLICABLE ARTICLES OF SECTION 701 OF THE STANDARD SPECIFICATIONS AND THE MUNICIPALITY'S REQUIREMENTS. ALL TRAFFIC PROTECTION, BOTH ONSITE AND OFFSITE, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 8. CONTRACTOR SHALL REMOVE EARTHEN MATERIALS, EXISTING SURFACES, AND STRUCTURES AS REQUIRED. ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OFF-SITE AND SHALL BE INCIDENTAL TO THE CONTRACT.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, UNLESS NOTED. THIS WILL INCLUDE BUT NOT BE LIMITED TO MUNICIPAL BUILDING PERMIT. THE OWNER WILL SECURE THE N.P.D.E.S. PERMIT. THE CONTRACTOR SHALL PROVIDE ANY FINANCIAL SURETIES REQUIRED AS PART OF ANY PERMIT.
- 10. WHEN CONCRETE IS PLACED ABUTTING STRUCTURES, FOUNDATIONS OR EXISTING SIDEWALKS, A BOND BREAKER CONSISTING OF 1" P.J.F. AND ELASTOMERIC JOINT SEALANT SHALL BE USED FULL DEPTH UNLESS OTHERWISE NOTED.
- 11. MAXIMUM CONTRACTION JOINT SPACING ON CONCRETE CURB AND GUTTER OR CONCRETE GUTTER SHALL NOT EXCEED 25'.
- 12. SIDEWALK RAMPS FOR ADA SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN HEREIN. DETECTABLE WARNINGS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- 13. HOT-MIX ASPHALT PAVEMENT PATCHING SHALL BE IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING ELECTRONIC AS-BUILT DRAWINGS, FOR UTILITIES AND DETENTION AREAS, TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROJECT ACCEPTANCE.
- 15. CONSTRUCTION STAKING, LAYOUT, AND GRADING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR USING THE BASIC TOPOGRAPHIC SURVEY CONTROLS PROVIDED IN THE PLANS. CONTRACTOR SHALL VERIFY SURVEY CONTROLS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES IN THE SURVEY CONTROLS SHALL BE REPORTED TO THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION. ANY ADDITIONAL SURVEY CONTROLS REQUIRED FOR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 16. CONTRACTOR SHALL COORDINATE ALL UTILITY LINE CROSSINGS TO ENSURE ALL PIPES MAINTAIN MINIMUM COVER, MINIMUM CLEARANCES, AND PROPER SEPARATION. GRAVITY LINES SHALL HAVE PRECEDENCE OVER PRESSURIZED LINES.
- 17. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL ITEMS INCORPORATED INTO THE WORK FOR ENGINEER REVIEW AND APPROVAL A MINIMUM OF 4 WEEKS PRIOR TO ORDERING.
- 18. REFERENCES TO "INSPECTION" OR "INSPECTOR" IN THE SPECIFICATIONS SHALL NOT CREATE, IMPOSE, OR GIVE RISE TO ANY DUTY OWED BY THE OWNER OR ENGINEER TO THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY SUPPLIER. ALL IMPROVEMENTS SHALL BE SUBJECT TO INSPECTION BY A DULY AUTHORIZED AND QUALIFIED OWNER'S REPRESENTATIVE BOTH DURING THE COURSE OF CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE. THE INSPECTOR SHALL HAVE AUTHORITY OVER MATERIALS OF CONSTRUCTION, METHODS OF CONSTRUCTION AND WORKSMANSHIP TO ENSURE COMPLIANCE WITH WORKING DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE FOR REASONABLE TESTS AND PROOF OF QUALITY OF MATERIALS AS REQUESTED BY THE INSPECTOR. UPON DUE CAUSE, WHICH SHALL INCLUDE WEATHER CONDITIONS, WORKMANSHIP OR NON-ADHEREANCE TO THE APPROVED PLANS AND SPECIFICATIONS, THE INSPECTOR SHALL HAVE THE AUTHORITY TO STOP CONSTRUCTION.
- 19. WHERE SECTION, SUB-SECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
- 20. ALL TRENCH BACKFILL SHALL BE IMPORTED GRANULAR MATERIAL UNLESS EXISTING GRANULAR MATERIALS ARE SPECIFICALLY APPROVED BY THE OWNER'S REPRESENTATIVE.
- 21. ALL AGGREGATE BASE COURSE SHALL BE COMPACTED TO 98% STANDARD PROCTOR DENSITY.
- 22. ALL AGGREGATE BASE AREAS TO BE PAVED (PAVEMENT, SIDEWALK, CURB, OR STRUCTURES) SHALL BE PROOF-ROLLED WITH SEVERAL PASSES OF A FULLY LOADED DUMP TRUCK. CONTRACTOR SHALL NOTIFY THE OWNER AND/OR ENGINEER 24 HOURS PRIOR TO PROOF ROLL AND SHALL MAKE ALL CORRECTIONS TO PROVIDE A SATISFACTORY SUBGRADE.
- 23. ANY UNCONTROLLED CRACKING THAT OCCURS IN CONCRETE PAVEMENT, SIDEWALK, CURB, OR CURB AND GUTTER PRIOR TO FINAL ACCEPTANCE SHALL BE ROUTED OR SAWED AND SEALED ACCORDING TO THE STANDARD SPECIFICATIONS.
- 24. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY WORK IN AND AROUND UTILITY-OWNED INFRASTRUCTURE AND MAKE THEM AWARE OF WORK TO BE PERFORMED.
- 25. ALL SIDEWALKS SHALL BE 4 INCHES IN THICKNESS AND CONSTRUCTED TO THE WIDTH SHOWN ON THE PLANS. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH A MIN. CROSS SLOPE OF 1% AND A MAX. CROSS SLOPE OF 2%. SIDEWALK THICKNESS SHALL BE INCREASED TO A MINIMUM 6" AT DRIVEWAYS OR AS REQUIRED BY THE MUNICIPALITY.

- 26. ANY SIDEWALKS, FENCES, AND OTHER ITEMS NOT SHOWN TO BE REMOVED, BUT DAMAGED DURING CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 27. CONTRACTOR SHALL NOTIFY WILLIAM BOLSTER (DPU-W/WW) AT (630)420-4122, A MINIMUM OF 48 HOURS PRIOR TO CONNECTING TO OR INSTALLING ANY PUBLIC SEWER OR WATER MAINS.
- 28. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE PROJECT SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THE CONTRACTOR MUST IMMEDIATELY PROVIDE THE INFORMATION TO THE ENGINEER BEFORE DOING ANY WORK. OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK EFFECTED BY OMISSIONS OR DISCREPANCIES. IF THE CONTRACTOR FAILS TO SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL.

EXISTING TOPOGRAPHY:

- 1. ALL UTILITIES SHOWN ARE APPROXIMATE ONLY AND ARE DERIVED FROM EXISTING UTILITY MARKINGS, OLD SITE PLANS, UTILITY COMPANY MAPS, PRIVATE LOCATOR AND OBSERVED EVIDENCE.
- 2. ALL PIPE SIZES REFERENCED HEREON ARE SHOWN ACCORDING TO UTILITY COMPANY MAPS, OLD SITE PLANS AND OBSERVED EVIDENCE. ALL PIPE SIZES AND INVERTS SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION.
- 3. PRIOR TO ANY EXCAVATION CONTRACTORS SHALL CALL THE TOLL FREE J.U.L.I.E. TELEPHONE NUMBER 1-800-892-0123. ALLOW 48 HOURS FOR LOCATIONS OTHER THAN EMERGENCY ASSISTANCE.

SITE DEMOLITION:

- 1. EXISTING UTILITIES TO REMAIN, WHICH ARE DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION, SHALL BE REPAIRED AND/OR REPLACED WITHOUT ADDITIONAL COMPENSATION. CONFLICTS WITH PROPOSED CONSTRUCTION AND UTILITIES TO REMAIN ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONSTRUCTION MANAGER FOR COORDINATION WITH THE OWNER'S REPRESENTATIVE, ENGINEER, AND UTILITY COMPANY.
- 2. NO DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL TAKE PLACE WITHIN PUBLIC RIGHT-OF-WAY UNTIL ALL PERMITS ARE SECURED.
- 3. ALL PAVEMENT TO BE REMOVED SHALL BE SAWCUT FULL DEPTH.
- 4. CONTRACTOR SHALL EMPLOY ALL MEASURES NECESSARY DURING DEMOLITION TO CONTROL EROSION AND INSURE THAT SEDIMENT DOES NOT LEAVE THE SITE. TRACKING OF DIRT ONTO PUBLIC STREETS AND EXISTING PARKING LOT SHALL BE CLEANED IMMEDIATELY, AND ALL SEDIMENT AND EROSION CONTROL ITEMS SHALL BE INSTALLED PRIOR TO CLEARING AND DEMOLITION WORK.
- 5. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS AND BECOMING FAMILIAR WITH ALL CONSTRUCTION DOCUMENTS.
- 6. ITEMS INDICATED TO BE REMOVED SHALL BE COMPLETELY REMOVED UNLESS INDICATED OTHERWISE
- 7. ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND STORED IN A LOCATION DESIGNATED BY THE OWNER.
- 8. ALL TREES AND BRUSH INDICATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ROOT BALLS.
- 9. UNLESS OTHERWISE IDENTIFIED AND/OR NOTED ON THE DEMOLITION PLAN, CONTRACTOR SHALL FULLY DEMOLISH, REMOVE, AND LAWFULLY DISPOSE OF ALL EXISTING BUILDINGS, IMPROVEMENTS, AND RELATED APPURTENANCES AT THIS SITE AND PROPERTY. CONTRACTOR SHALL ALSO DEMOLISH, REMOVE, AND LAWFULLY DISPOSE OF EXISTING IMPROVEMENTS AND CONSTRUCTIONS IN THE PUBLIC RIGHT-OF-WAY NECESSARY TO ACCOMPLISH THE NEW PROJECT WORK DESCRIBED ELSEWHERE IN THESE BIDDING AND CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL PROCURE ALL NECESSARY PERMITS AND APPROVALS FOR SUCH DEMOLITION WORK (BOTH INSIDE THE PROPERTY LINE AND IN THE PUBLIC RIGHT-OF-WAY) PRIOR TO COMMENCING ANY DEMOLITION OPERATIONS
- 10. CONTRACTOR SHALL FULLY PROTECT ALL SURROUNDING PROPERTIES FROM ANY AND ALL DAMAGE DURING DEMOLITION OPERATIONS; AND SHALL BE FULLY RESPONSIBLE FOR REPAIRING (TO A CONDITION ACCEPTABLE TO THE OWNER AND ARCHITECT) ANY AND ALL DAMAGE THAT DOES OCCUR.
- 11. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROLS AND RELATED APPURTENANCES THAT ARE REQUIRED BY ANY APPLICABLE CODES AND ORDINANCES, DURING ALL DEMOLITION OPERATIONS.
- 12. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SAFETY AND SECURITY OF THE PROJECT SITE AND ITS SURROUNDINGS DURING DEMOLITION OPERATIONS.
- 13. ALL DEMOLISHED EXISTING MATERIALS, SYSTEMS, AND CONSTRUCTIONS SHALL BE DISPOSED OF IN A LAWFUL MANNER, AND WRITTEN RECORDS OF THE FINAL DESTINATION FOR THESE MATERIALS, SYSTEMS, AND CONSTRUCTIONS (INCLUDING ANY IDENTIFIED HAZARDOUS ITEMS) SHALL BE PROVIDED TO THE OWNER AND ENGINEER. ADDITIONALLY, SOME EXISTING MATERIALS AND SYSTEMS MAY NEED TO BE RECYCLED AND/OR OTHERWISE SALVAGED IN ORDER TO MEET THE SUSTAINABILITY AND LEED REQUIREMENTS OF THIS PROJECT. SEE OTHER PORTIONS OF THESE BIDDING AND CONSTRUCTION DOCUMENTS FOR SUCH REQUIREMENTS.
- 14. EXISTING SITE SHALL BE CLEANED ON A DAILY BASIS THROUGHOUT THE DURATION OF DEMOLITIONS OPERATIONS; AND NO DEBRIS OR PRODUCTS OF DEMOLITION SHALL BE ALLOWED TO ACCUMULATE OUTSIDE THE BOUNDARIES OF THE SITE.
- 15. CONTRACTOR SHALL FULLY COORDINATE ALL PROJECT DEMOLITION OPERATIONS, INCLUDING THE REMOVAL AND LAWFUL DISPOSAL OF ALL IDENTIFIED HAZARDOUS MATERIALS AND SYSTEMS.
- 16. CONTRACTOR SHALL SUBMIT A COMPLETE WRITTEN PLAN AND SCHEDULE FOR ALL PROPOSED DEMOLITION WORK TO OWNER AND ARCHITECT FOR REVIEW AND COMMENT, PRIOR TO BEGINNING ANY SUCH OPERATIONS. DURING THE COURSE OF THIS DEMOLITION WORK, IF ANY ARTIFACTS OR OTHER UNUSUAL ITEMS ARE DISCOVERED, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER IMMEDIATELY, BEFORE PROCEEDING ANY FURTHER. ANY EXPENSES RESULTING FROM THE FAILURE TO PROVIDE SUCH IMMEDIATE NOTIFICATION SHALL BE BORNE BY THE CONTRACTOR.

SITE LAYOUT:

- 1. JOINTS IN SIDEWALK SHALL BE TOOLED AT 5' MAX. INTERVALS, UNLESS INDICATED OTHERWISE.
- 2. NORTHING-EASTING COORDINATES AND DIMENSIONS FOR CURB AND GUTTER ARE TO FACE OF CURB.
- 3. CONTRACTOR SHALL COORDINATE ALL WORK WITHIN PUBLIC RIGHT-OF-WAY WITH THE APPROPRIATE PUBLIC AGENCY. NOTIFICATION SHALL OCCUR A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN PUBLIC RIGHT-OF-WAY. ALL PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS.

4. P.C. CONCRETE PAVEMENT AND SIDEWALKS SHALL BE CLASS PV AND CLASS SI, RESPECTIVELY, IN

- 5. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS AND BECOMING FAMILIAR WITH ALL CONSTRUCTION DOCUMENTS.
- 6. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND DOOR LOCATIONS.7. CONTRACTOR SHALL COORDINATE EQUIPMENT PADS WITH EQUIPMENT MANUFACTURERS.

SITE GRADING AND EROSION CONTROL:

- 1. ENGINEERED STRUCTURAL FILLS SHALL BE INCLUDED IN OVERALL SITE DEVELOPMENT TO PROVIDE ADEQUATE STRUCTURAL SUPPORT FOR THE FLOOR SLABS ON GRADE AND ADJOINING PAVEMENT AREAS.
- 2. WHERE FIRM FOUNDATION MATERIAL IS NOT ENCOUNTERED AT THE GRADE ESTABLISHED, DUE TO UNSUITABLE SOIL, ALL SUCH UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED COMPACTED GRANULAR MATERIAL.
- 3. TOPSOIL SHALL BE STRIPPED IN ALL STRUCTURAL FILL AREAS BEFORE PLACEMENT OF FILL

MATERIAL AND SHALL BE STOCKPILED IN AREAS DESIGNATED BY THE OWNER OR PER PLAN.

- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM EARTHWORK CALCULATIONS BASED ON THE PROVIDED PLANS AND TO LAWFULLY DISPOSE OF AND REMOVE ANY EXCESS MATERIAL FROM THE PROJECT SITE, OR TO PROVIDE ANY NECESSARY FILL MATERIAL THAT MAY BE REQUIRED TO MEET THE FINAL PLAN GRADES. THE DISPOSAL OR PROVIDING OF MATERIAL SHALL BE INCIDENTAL TO THE CONTRACT.
- 5. ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS URBAN MANUAL."
- 6. THE OWNER/ENGINEER SHALL PROVIDE THE SOIL EROSION AND SEDIMENT CONTROL PLANS INCLUDED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN BOOKLET AND ASSOCIATED DOCUMENTS IN ACCORDANCE WITH THE "GENERAL NPDES PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES," AND A COPY SHALL BE KEPT ONSITE AT ALL TIMES.
- 7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE INSTALLATION, ALL INSPECTIONS, AND MAINTENANCE OF ALL EROSION CONTROL FACILITIES REQUIRED BY THE GENERAL NPDES PERMIT UNTIL FINAL STABILIZATION OF ALL AREAS DISTURBED BY CONSTRUCTION OCCURS. MAINTENANCE AND REPLACEMENT OF EROSION CONTROL ITEMS SHALL BE CONSIDERED AS INCIDENTAL TO THE
- 8. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY MUST BE SEEDED, SODDED, BLANKETED OR OTHERWISE PROTECTED WITHIN 14 DAYS OF FINAL DISTURBANCE. ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF THIS PROJECT WHICH ARE LOCATED OUTSIDE OF THE PROPOSED SEEDING LIMITS SHALL BE GRADED TO DRAIN, FERTILIZED, SEEDED, MULCHED AND WATERED. THE COST ASSOCIATED WITH THE PLACEMENT OF ADDITIONAL FERTILIZER, SEED, MULCH AND WATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. A MINIMUM OF 70% VEGETATIVE COVERAGE IS REQUIRED PRIOR TO ACCEPTANCE. SEE LANDSCAPE PLANS FOR ADDITIONAL REQUIREMENTS.
- 9. ALL EROSION CONTROL MEASURES SHOWN ON THE PLAN ARE THE MINIMUM MEASURES REQUIRED. UNFORESEEN CHANGES IN SCOPE, SCHEDULE OR CONSTRUCTION METHODS MAY RESULT IN CHANGES OR ADDITIONS TO THIS PLAN AND THE SWPPP. ANY CHANGES OR ADDITIONS NECESSARY TO MAINTAIN COMPLIANCE WITH THE NPDES PERMIT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER.
- 10. SHOULD PROJECT SCHEDULING PROHIBIT THE ABILITY TO SEED DISTURBED EARTH UPON COMPLETION OF GRADING, CONTRACTOR SHALL EMPLOY ALTERNATE SOURCE CONTROLS IN ADDITION TO THOSE ON THIS PLAN, INCIDENTAL TO THE CONTRACT.
- 11. DUST CONTROL MUST BE PROVIDED AS NEEDED, BY WATERING OR OTHER MEANS.
- 12. ALL AREAS WITH THE EXCEPTION OF PAVEMENT SHALL BE FINISHED IN ACCORDANCE WITH THE LANDSCAPE PLANS INCLUDED IN THE PLAN SET.
- 13. CONTRACTOR SHALL INSTALL INLET FILTER PROTECTION BASKETS INSIDE ALL EXISTING AND PROPOSED MANHOLES AND INLET FRAMES.
- CONTRACTOR IS REQUIRED TO PROVIDE AND USE A CONCRETE WASHOUT AREA FOR RINSING CONCRETE TRUCKS.
- 15. CONTRACTOR IS REQUIRED TO PROVIDE AND USE A TEMPORARY CONSTRUCTION ENTRANCE FOR ALL CONSTRUCTION TRAFFIC PER PLAN.
- 16. CONTRACTOR SHALL PROVIDE AND USE A WHEEL WASH SYSTEM TO ENSURE THAT ALL CONSTRUCTION TRAFFIC ENTERING AND EXITING THE SITE MAINTAIN CLEAN TIRES. ANY SEDIMENT TRACKED ONTO ADJACENT ROADWAYS OR PAVED AREAS SHALL BE REMOVED BY THE CONTRACTOR
- 17. ALL ELEVATIONS SHOWN ARE TO FINISHED PAVEMENT UNLESS SPECIFIED OTHERWISE.
- 18. ALL SLOPES GREATER THAN OR EQUAL TO 4:1 SHALL BE STABILIZED WITH NAG S75BN OR
- 19. CONTRACTOR SHALL PROVIDE A MINIMUM OF 6" TOPSOIL IN ALL ISLANDS, LANDSCAPE AREAS, AND OPEN SPACES.

SITE UTILITIES:

BY THE END OF THE SAME WORK DAY.

- 1. THIS CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
- A. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
- B. ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"
- C. CITY OF NAPERVILLE OFFICE OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS
- 2. ALL UTILITY TRENCHES UNDER OR WITHIN 2' OF EXISTING OR PROPOSED PAVEMENT OR BUILDING SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH IDOT SPECIFICATIONS. CONTROLLED LOW-STRENGTH MATERIAL (CLSM) SHALL BE USED TO BACKFILL TRENCHES WITHIN PUBLIC RIGHT OF WAY. THE CLSM SHALL EXTEND 2 FT PAST THE PROPOSED PAVEMENT, CURB, OR SIDEWALK.
- OPEN CUT TRENCHES SHALL BE SHEETED AND BRACED AS REQUIRED BY THE GOVERNING STATE, FEDERAL LAWS AND MUNICIPAL ORDINANCES, AND AS MAY BE NECESSARY TO PROTECT LIFE, PROPERTY OR THE WORK.
- 4. CONTRACTOR SHALL AT ALL TIMES DURING CONSTRUCTION PROVIDE AND MAINTAIN SUFFICIENT MEANS AND DEVICES TO REMOVE AND PROPERLY DISPOSE OF ALL WATER ENTERING THE EXCAVATIONS. WATER SHALL BE FILTERED AND DISCHARGED IN ACCORDANCE WITH THE NPDES REQUIREMENTS.
- 5. ALL PIPE SHALL BE INSTALLED ON A BEDDING OF APPROVED, COMPACTED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE BEDDING MATERIAL SHALL BE INSTALLED PER STANDARD SPECIFICATIONS AND PROVIDED PLAN DETAILS.
- 6. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN ALL WATER MAINS AND SEWERS. IF SEPARATION IS NOT POSSIBLE, WATER MAIN ENCASEMENT SHALL BE REQUIRED OR THE SEWER SHALL BE CONSTRUCTED OF WATER MAIN QUALITY PIPE.
- 7. WATER MAINS SHALL CROSS ABOVE SEWERS WITH A MINIMUM VERTICAL SEPARATION OF 18 INCHES WHILE STILL MAINTAINING THE REQUIRED DEPTH OF COVER. IF PROPER SEPARATION IS NOT POSSIBLE, OR IF THE WATER MAIN MUST BE ROUTED UNDER THE SEWER, WATER MAIN ENCASEMENT SHALL BE REQUIRED OR THE SEWER SHALL BE CONSTRUCTED OF WATER MAIN QUALITY PIPE.
- 8. ALL SANITARY SEWERS SHALL BE TESTED FOR EXFILTRATION OF AIR UNDER PRESSURE, INFILTRATION OF WATER, AND/OR EXFILTRATION OF WATER AS PER STANDARD SPECIFICATIONS. ALL SANITARY SEWERS SHALL BE DEFLECTION TESTED NO SOONER THAN 30 DAYS AFTER INSTALLATION. ALL MANHOLES SHALL BE TESTED FOR WATERTIGHTNESS BY EITHER ASTM C 969 OR ASTM C 1244.
- 9. STORM SEWER SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
 - A. REINFORCED CONCRETE PIPE (RCP), ASTM C76
 - a. GASKETS ASTM C443
 - b. FITTINGS ASTM C443
 - B. SMOOTH INTERIOR WALLED HIGH DENSITY POLYETHYLENE PIPE (HDPE), ASTM D3212, N-12 WT
 a. WATER TIGHT JOINTS
 - b. JOINT SHALL BE SEALED SUFFICIENTLY TO PREVENT JETTING OR LEAKING AT THE JOINT
 - C. PVC STORM SEWER PIPING, ASTM D 3034, SDR 35a. BELL-AND-SPIGOT ENDS
 - b. ASTM F 477, ELASTOMERIC SEALS FOR GASKETED JOINTSD. FRAME AND GRATES
 - a. TYPE 1 CLOSED LID = NEENAH R-1713
 - b. TYPE 1 OPEN LID = NEENAH R-2504c. TYPE 3 = NEENAH R-3281-A
 - d. DITCH GRATE = NEENAH R-4342

10. SANITARY SEWER SHALL BE IN CONFORMANCE WITH THE FOLLOWING:

- A. PIPE AND FITTING MATERIAL POLYVINYL CHLORIDE (PVC) SDR 26, ASTM D-2241, TYPE PSM
- B. GASKETS FLEXIBLE ELASTOMERIC, ASTM F 477, ASTM D-3139
- C. JOINTS ASTM D-3139
- D. BEDDING CLASS II, ASTM 2321
- ALL CLEANOUT RIMS SHALL BE CONSTRUCTED FLUSH WITH THE FINISHED GROUND SURFACE.
 CONTRACTOR SHALL COORDINATE CONSTRUCTION OF SANITARY SEWER SERVICES WITH THE DEPARTMENT OF PUBLIC UTILITIES - WATER / WASTEWATER.
- 13. CONTRACTOR SHALL COORDINATE WATER MAIN, FIRE AND DOMESTIC WATER SERVICES WITH THE DEPARTMENT OF PUBLIC UTILITIES WATER / WASTEWATER..
- 14. GENERAL CONTRACTOR SHALL COORDINATE ALL UTILITY LINES THAT ENTER THE BUILDING. IN GENERAL, PLUMBING PLANS SHOW ALL INTERIOR BUILDING PIPING AND PIPING UP TO 5-FEET OUTSIDE THE BUILDING. CIVIL PLANS SHOW SITE PIPING BEGINNING FROM 5-FEET OUTSIDE THE BUILDING. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY CONNECTIONS.
- 15. CONTRACTOR SHALL COORDINATE ALL UTILITY LINE CROSSINGS TO ENSURE ALL PIPES MAINTAIN MINIMUM COVER, MINIMUM CLEARANCES, AND PROPER SEPARATION. GRAVITY LINES SHALL HAVE PRECEDENCE OVER PRESSURIZED LINES.
- 16. ALL TRENCH BACKFILL SHALL BE IMPORTED GRANULAR MATERIAL UNLESS EXISTING GRANULAR MATERIALS ARE SPECIFICALLY APPROVED BY THE OWNER'S REPRESENTATIVE.
- 17. ALL MANHOLES AND INLET CASTINGS LOCATED WITHIN BITUMINOUS ASPHALT PAVEMENT SHALL BE CONSTRUCTED WITH A CONCRETE APRON AT THE SURFACE.
- 18. FOR ALL WATERMAIN CONSTRUCTION:
- A. WATER MAIN AND SERVICES TO BE INSTALLED WITH A MINIMUM OF 5'-6" OF COVER FROM FINISHED GRADE TO TOP OF WATER PIPE.
- B. TWO COMPLETE PIPE LENGTHS OF RESTRAINED JOINT PIPE SHALL BE CONSTRUCTED ON THE BRANCH LEG OF ALL TEES AND BOTH SIDES OF ALL 90 DEGREE BENDS.
- C. ONE COMPLETE PIPE LENGTH OF RESTRAINED JOINT PIPE SHALL BE CONSTRUCTED ON BOTH SIDES OF ALL 11-1/4 AND 22-1/2 DEGREE BENDS.
- D. ALL BENDS, TEES, PLUGS, VALVES AND HYDRANTS SHALL BE RESTRAINED JOINT.
- E. ALL WATERMAIN PIPE 4" AND LARGER SHALL BE POLY WRAPPED DUCTILE IRON PIPE SPECIAL CLASS 52, 250 PSI RATING, WITH SINGLE GASKET JOINTS. CEMENT LINING SHALL BE PROVIDED FOR ALL PIPE.
- F. ALL WATER SERVICE PIPE LESS THAN 4" SHALL BE COPPER PIPE, TYPE K OR PVC SDR 9 WITH A PRESSURE RATING OF 200 PSI.

INDEMNIFICATION:

1. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, THE CITY OF NAPERVILLE, AND CAGE ENGINEERING, INC. FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE CONTRACTOR'S WORK. IN ANY AND ALL CLAIMS AGAINST THE OWNER OR CAGE ENGINEERING, INC. BY ANY EMPLOYEE OF THE CONTRACTOR, OR ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR, OR ANYONE FOR WHOSE ACTS THE CONTRACTOR MAY BE LIABLE, THE INDEMNIFICATION OBLIGATION SHALL NOT BE LIMITED IN ANY WAY BY ANY LIMITATION ON THE AMOUNT OF DAMAGES, COMPENSATION OR BENEFITS PAYABLE BY OR FOR THE CONTRACTOR UNDER WORKER'S COMPENSATIONS ACTS, DISABILITY BENEFIT ACTS OR OTHER EMPLOYEE BENEFIT

INCUDANCE DECUIDEMENTS

- 1. THE CONTRACTOR SHALL PURCHASE AND MAINTAIN COMPREHENSIVE GENERAL LIABILITY AND OTHER INSURANCE SET FORTH BELOW WHICH WILL PROVIDE PROTECTION FROM CLAIMS WHICH MAY ARISE OUT OF OR RESULTING FROM THE PERFORMANCE OF WORK BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR OR BY ANYONE FOR WHOSE ACTS THE CONTRACTOR MAY BE LIABLE.
- A. COMPREHENSIVE AUTOMOBILE LIABILITY INSURANCE COVERING ALL AUTOMOBILES, TRUCKS, TRAILERS AND ANY OTHER MOTORIZED EQUIPMENT OWNED OR LEASED BY THE CONTRACTOR.
- B. WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE IN ANY AMOUNT NOT LESS THAN STATUTORY LIMITS REQUIRED BY LAW.
- C. COMPREHENSIVE GENERAL LIABILITY INSURANCE INCLUDING COVERAGE IN THE AMOUNT OF \$500,000 PER ACCIDENT FOR PROPERTY DAMAGE AND \$1,000,000 PER PERSON AND \$3,000,000 AGGREGATE PER ACCIDENT FOR BODILY INJURY, SICKNESS OR DISEASE, OR DEATH OF ANY DEBSON
- 2. CERTIFICATE OF INSURANCE
- A. THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL HE HAS FILED WITH THE MUNICIPALITY AND ITS INSPECTOR A CERTIFICATE OF INSURANCE SHOWING COMPLETE COVERAGE OF ALL INSURANCE REQUIRED, SIGNED BY THE INSURANCE COMPANIES OR THEIR AUTHORIZED AGENTS. EACH CERTIFICATE SHALL PROVIDE THAT COVERAGE SHALL NOT BE TERMINATED OR REDUCED WITHOUT 30 DAYS ADVANCE WRITTEN NOTICE TO THE MUNICIPALITY AND ITS INSPECTOR. THE CONTRACTOR SHALL NAME THE OWNER, THE CITY OF NAPERVILLE AND CAGE ENGINEERING, INC. AS ADDITIONAL INSUREDS ON THE COMPREHENSIVE GENERAL LIABILITY AND AUTOMOBILE LIABILITY POLICIES.

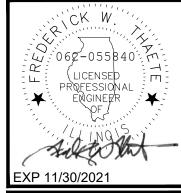
CONSTRUCTION MEANS, METHODS, SAFETY

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS, INCLUDING OSHA STANDARDS AND WITH ANY OTHER APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY OR LOSS. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT AND SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS UTILIZED BY THE CONTRACTOR AND HIS SUB-CONTRACTORS IN THE PERFORMANCE OF THEIR WORK AND SHALL TAKE ANY OTHER ACTIONS NECESSARY TO PROTECT THE LIFE AN HEALTH OF EMPLOYEES ON THE JOB AND THE SAFETY OF THE PUBLIC AND TO PROTECT
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES, EQUIPMENT, AND FOR SAFETY PRECAUTIONS OR PROGRAMS, UNLESS SUCH MEANS AND EQUIPMENT ARE SPECIFIED IN THESE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH SECTION 108.06 LABOR, METHODS, AND EQUIPMENT OF THE "STANDARD SPECIFICATIONS."

PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

DOWNERS GROVE, IL 60519 P: 630.598.0007 WWW.CAGECIVIL.COM

CIVIL ENGINEERING



REVISIONS \triangle

07.30.21 REVISED PER CITY
COMMENTS
09.02.21 REVISED PER CITY
COMMENTS
10.29.21 REVISED TO 3 LOTS
11.15.21 REVISED PER CITY
COMMENTS

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ER POINT

PROJ NO:210015 ENG : AMS

DATE : 05/26/21

GENERAL NOTES & SPECIFICATIONS

SHEET TITLE

SHEET NUMBER

2 OF 12

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NAPERVILLE GENERAL REQUIREMENTS:

- 1. THE OWNER OF HIS/HER/THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
- 2. 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).
- 3. ALL CONTRACTORS DOING WORK IN THE PUBLIC RIGHT-OF-WAY MUST BE LICENSED (WHEN APPLICABLE) TO MAKE PUBLIC IMPROVEMENTS WITHIN THE NAPERVILLE CORPORATE LIMITS.
- 4. THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 5. THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF NAPERVILLE.
- 6. 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.
- 7. 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.
- 8. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF NAPERVILLE TED BUSINESS GROUP (630-420-6082) PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.
- 9. 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 JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
- 10. THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF NAPERVILLE BY CALLING (630)-420-6082 BETWEEN THE HOURS OF 8:00AM AND 4:00PM (CLOSED 1:00PM TO 2:00 PM 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).
- 11. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
- 12. FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS 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.

NAPERVILLE STORM SEWER NOTES:

- NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE CITY ENGINEER.
- 2. 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.
- 3. BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE $\frac{1}{4}$ INCH TO 1 INCH IN SIZE. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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 $\frac{1}{2}$ INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.
- 8. 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 C 478-05 (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.
 - A). PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL.
 - B). BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, OR APPROVED EQUAL.
- C). DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, OR APPROVED EQUAL.

 D). MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, OR APPROVED EQUAL.
- E). NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, 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.
- 9. 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 FIXED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

NAPERVILLE EROSION CONTROL AND DRAINAGE PLAN:

- 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

 AREA
- 2. DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
- 3. DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE 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.
- 4. 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.
- 5. ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY ENGINEER.
- 6. IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.
- 7. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.

GEOMETRIC AND PAVING NOTES (GENERAL):

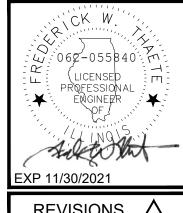
- 1. THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY ENGINEER.
- 2. ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY ENGINEER.
- 3. 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.
- 4. THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.
- 5. 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, DRIVEWAYS, 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 HTE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DOE OVER UNTIL IT IS CORRECT.

NAPERVILLE TRAFFIC CONTROL AND PROTECTION NOTES:

- 1. 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 AN DARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVED PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.
- 2. 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.
- 3. 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.
- 4. ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

3110 WOODCREEK DRIVE DOWNERS GROVE, IL 60515 P: 630.598.0007 WWW.CAGECIVIL.COM





REVISIONS \triangle

07.30.21 REVISED PER CITY
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ADLER POINT

PROJ NO: 210015

ENG: AMS

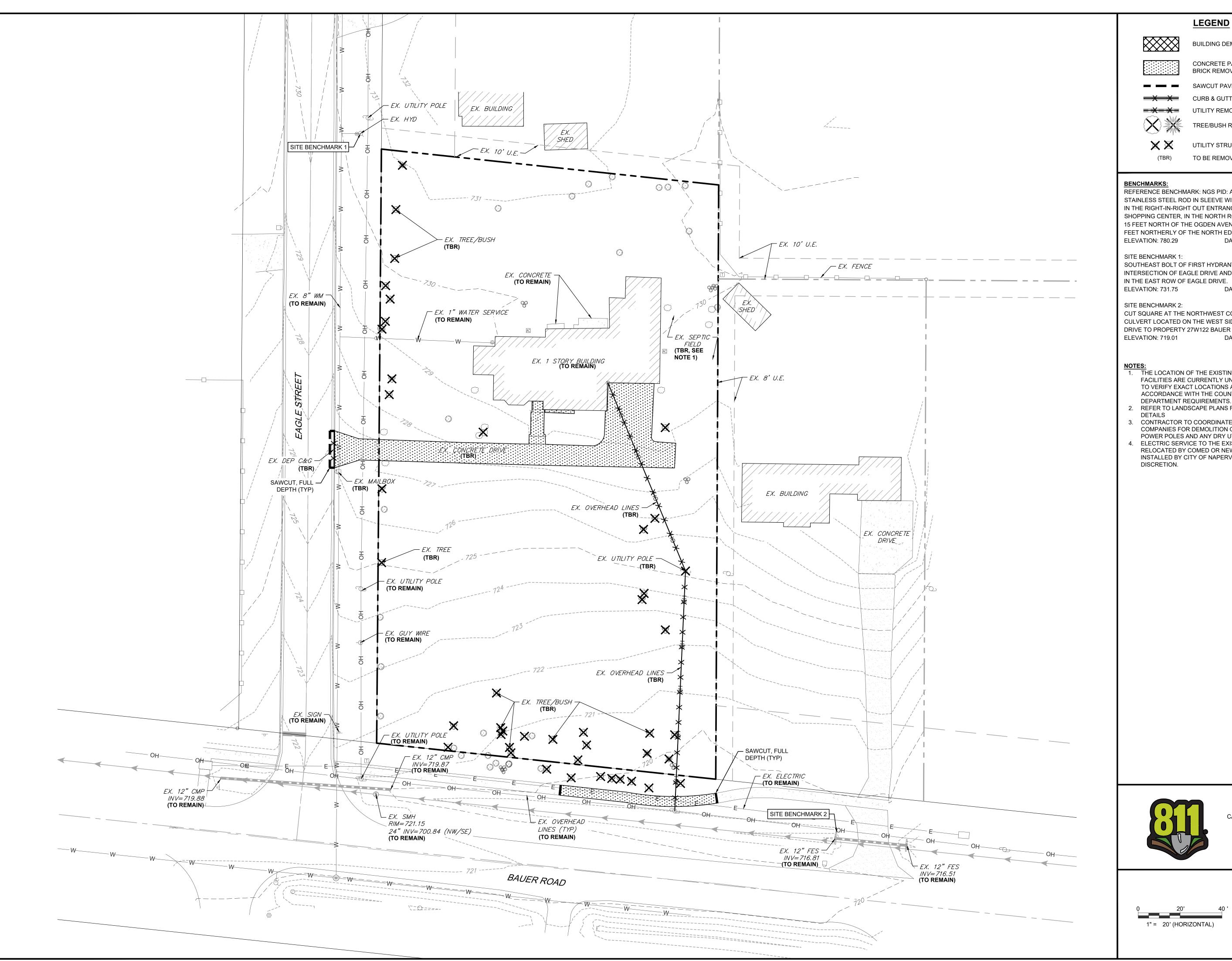
DATE: 05/26/21

NAPERVILLE GENERAL NOTES & SPECIFICATIONS

SHEET TITLE

SHEET NUMBER

3 OF 12



LEGEND

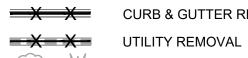
BUILDING DEMOLITION



CONCRETE PAVEMENT / SIDEWALK/ BRICK REMOVAL, FULL DEPTH



SAWCUT PAVEMENT, FULL DEPTH



CURB & GUTTER REMOVAL



TREE/BUSH REMOVAL



UTILITY STRUCTURE REMOVAL TO BE REMOVED

BENCHMARKS:

REFERENCE BENCHMARK: NGS PID: AA3789 (NAPERVILLE 70) STAINLESS STEEL ROD IN SLEEVE WITH CAST CAP LOCATED IN THE RIGHT-IN-RIGHT OUT ENTRANCE TO THE OGDEN MALL SHOPPING CENTER, IN THE NORTH ROW OF OGDEN AVENUE 15 FEET NORTH OF THE OGDEN AVENUE BACK OF CURB, 0.9 FEET NORTHERLY OF THE NORTH EDGE OF SIDEWALK. DATUM: NAVD88-GEOID 128

SITE BENCHMARK 1:

SOUTHEAST BOLT OF FIRST HYDRANT SOUTH OF THE INTERSECTION OF EAGLE DRIVE AND 49TH STREET, LOCATED

DATUM: NAVD88-GEOID 12E ELEVATION: 731.75

CUT SQUARE AT THE NORTHWEST CORNER OF A CONCRETE CULVERT LOCATED ON THE WEST SIDE OF RESIDENTIAL DRIVE TO PROPERTY 27W122 BAUER ROAD.

ELEVATION: 719.01 DATUM: NAVD88-GEOID 12

- 1. THE LOCATION OF THE EXISTING WELL & SEPTIC FACILITIES ARE CURRENTLY UNKNOWN. CONTRACTOR TO VERIFY EXACT LOCATIONS AND ABANDON IN ACCORDANCE WITH THE COUNTY HEALTH
- REFER TO LANDSCAPE PLANS FOR TREE REMOVAL
- 3. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR DEMOLITION OF OVERHEAD LINES, POWER POLES AND ANY DRY UTILITIES
- 4. ELECTRIC SERVICE TO THE EXISTING HOUSE TO BE RELOCATED BY COMED OR NEW ELECTRIC SERVICE INSTALLED BY CITY OF NAPERVILLE, AT OWNER'S DISCRETION.

W:062-055840: M: PROFESSIONAL ENGINEER sector las EXP 11/30/2021

REVISIONS \triangle

07.30.21 REVISED PER CITY
COMMENTS

09.02.21 REVISED PER CITY
COMMENTS 10.29.21 REVISED TO 3 LOTS 11.15.21 REVISED PER CITY COMMENTS

> POINT DLER

PROJ NO:210015

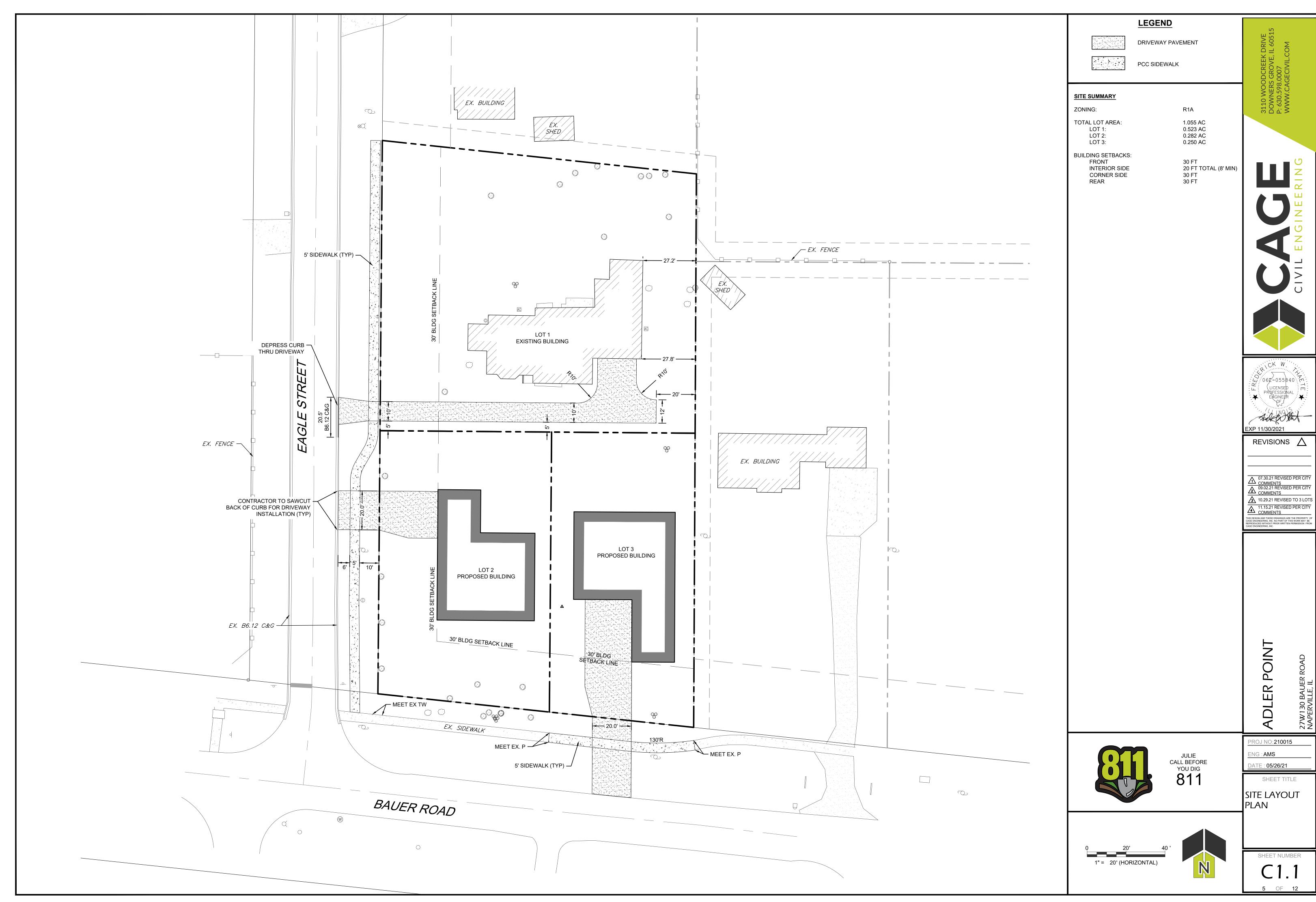
NG:AMS JULIE CALL BEFORE DATE: 05/26/21 YOU DIG **811**

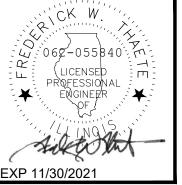
EXISTING CONDITIONS & DEMOLITION PLAN

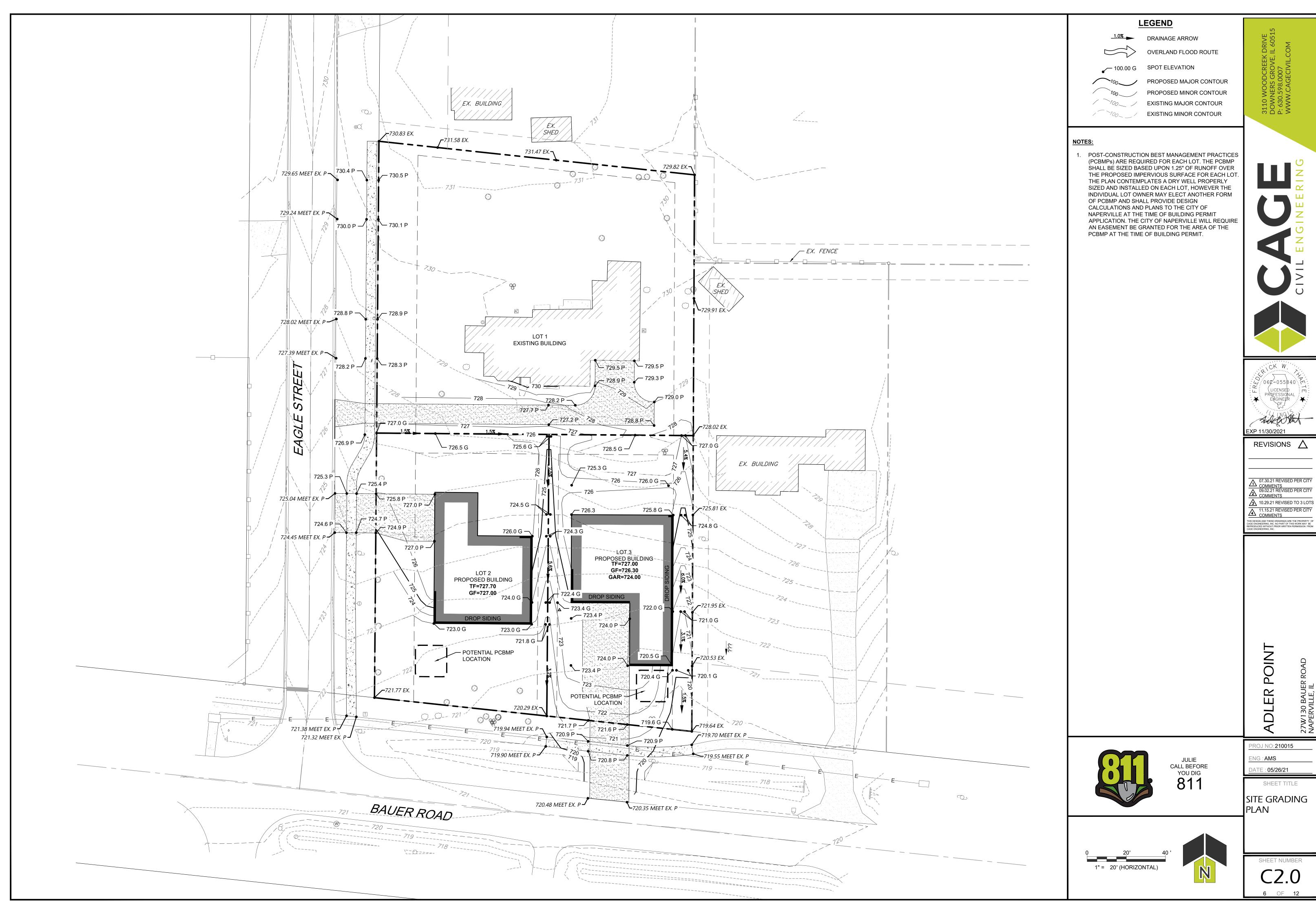
SHEET TITLE

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SHEET NUMBER



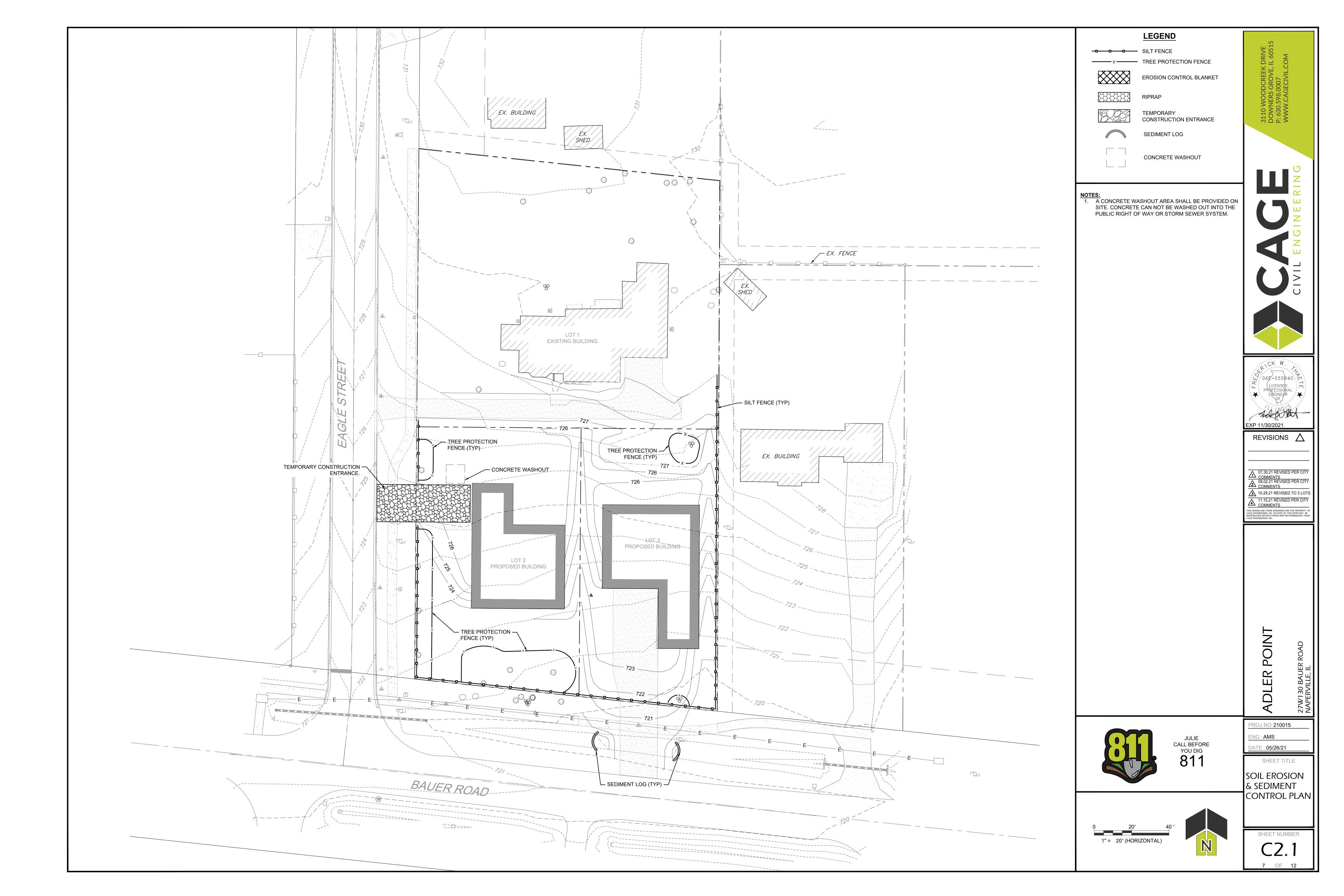


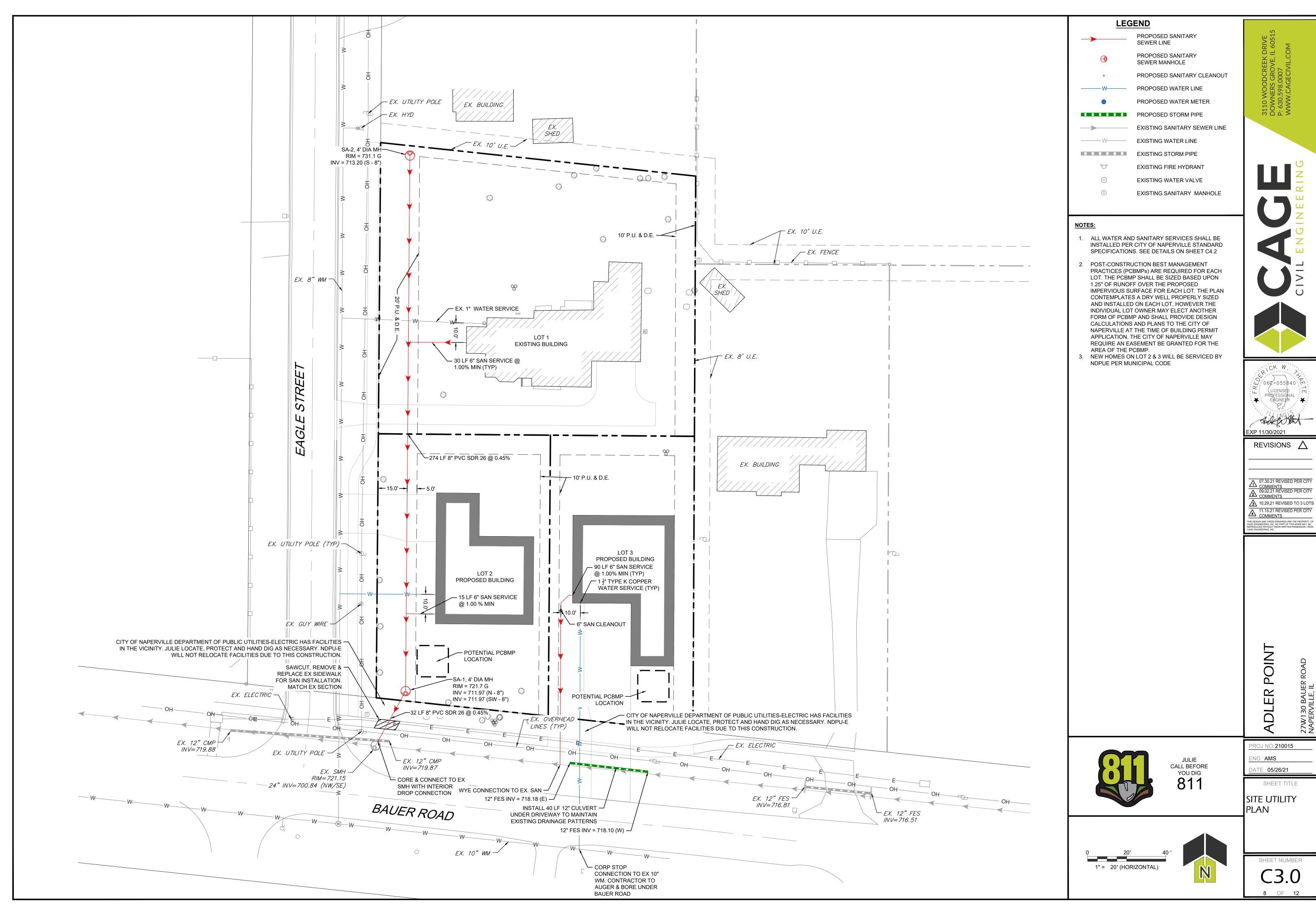


10.29.21 REVISED TO 3 LOTS

11.15.21 REVISED PER CITY
COMMENTS

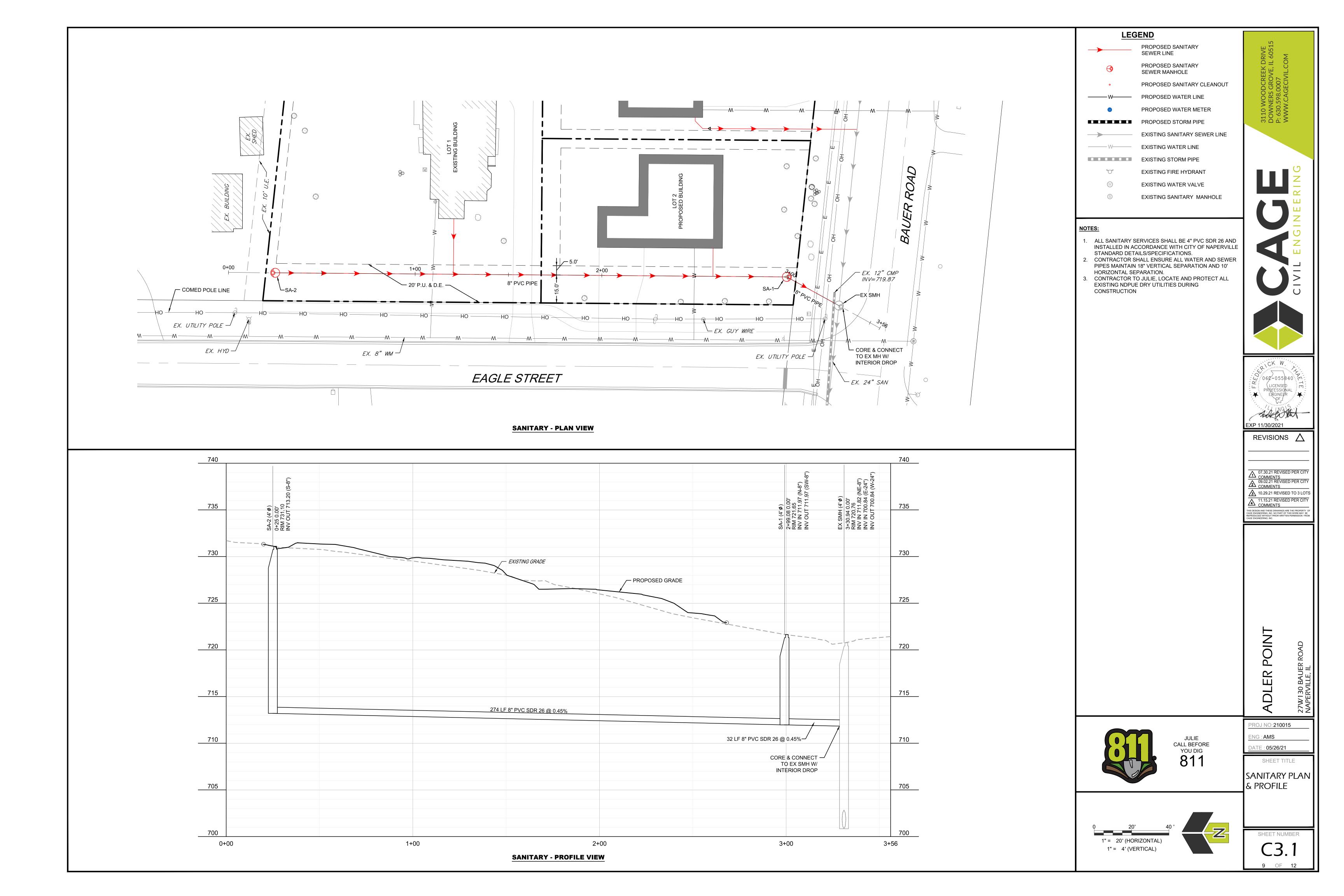
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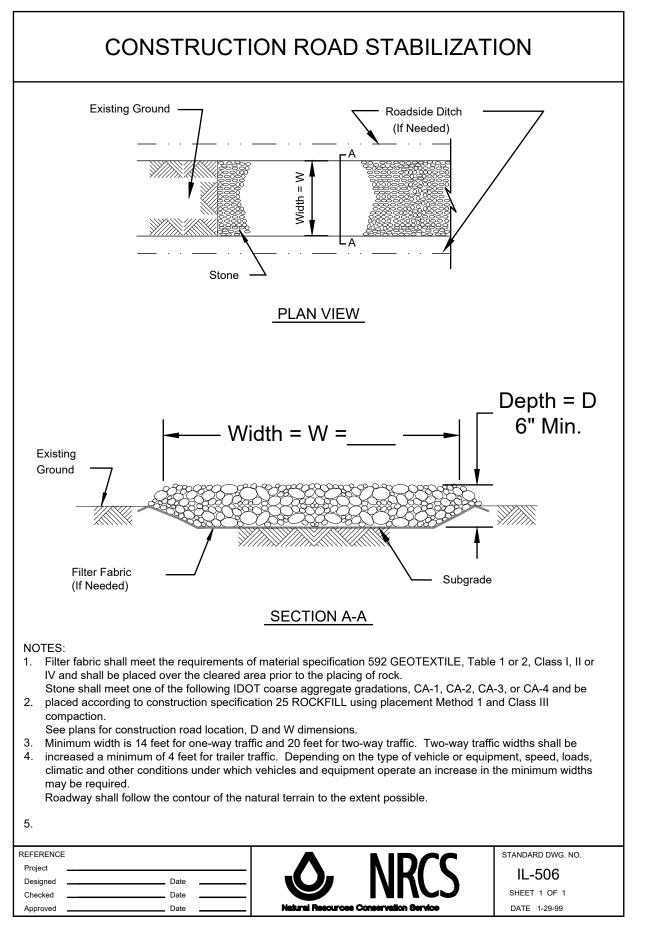


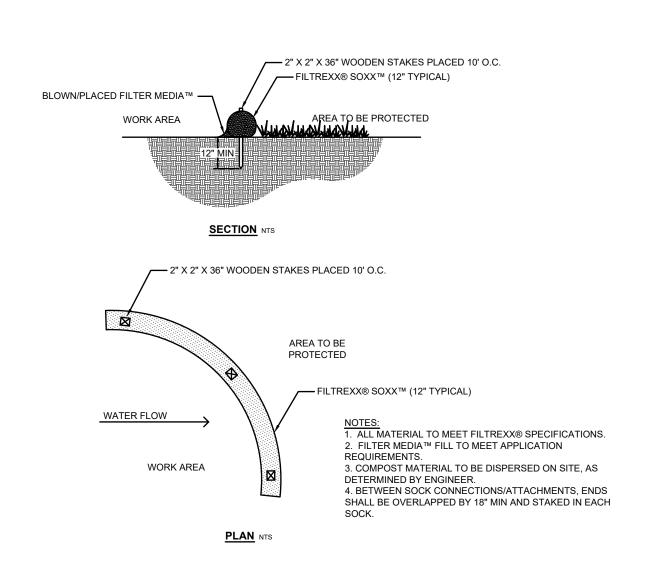




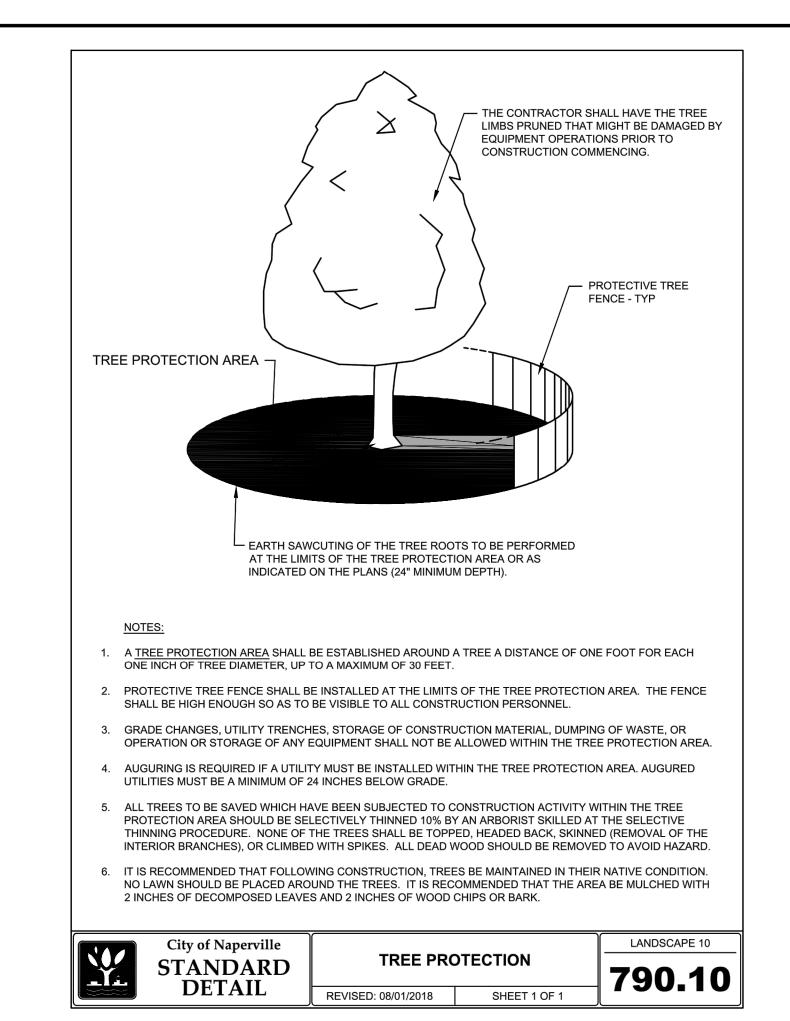






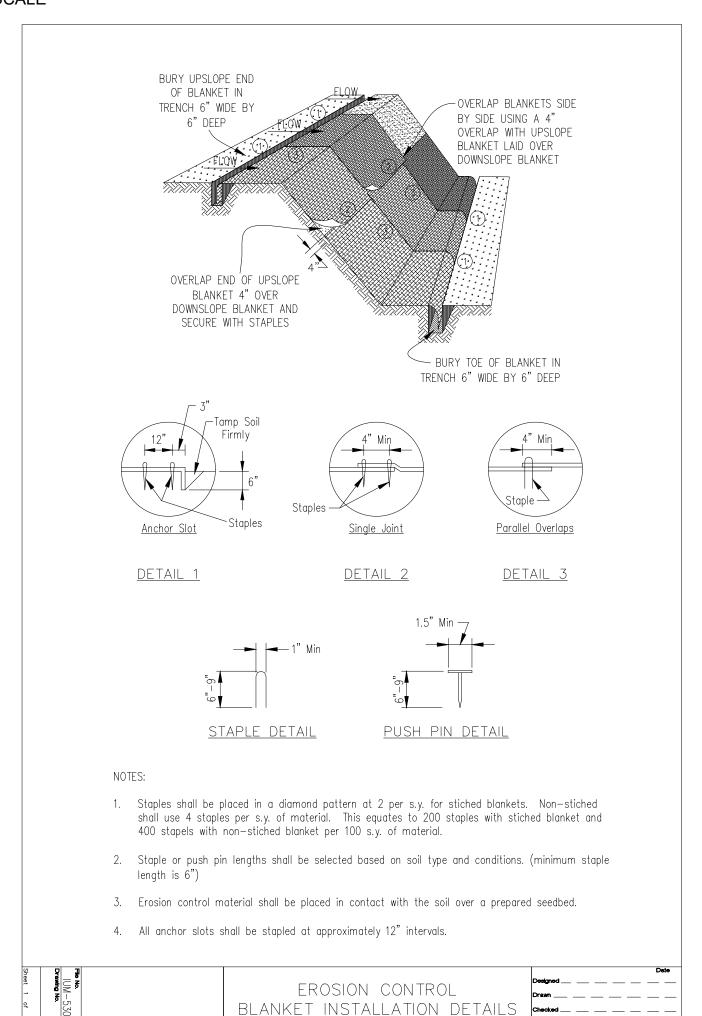






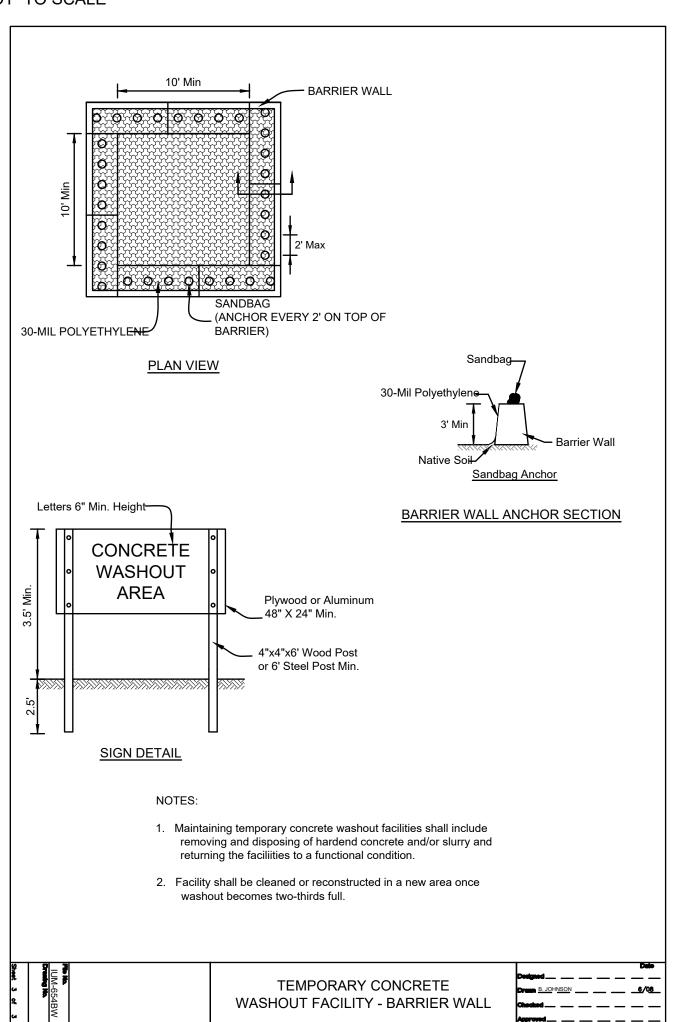


Scale: NOT TO SCALE





Scale: NOT TO SCALE



Scale: NOT TO SCALE

5' MAX (TYP) 4 PER POST REQUIRED (TYP) WIRE MESH REINFORCEMENT (OPTIONAL) FILTER FABRIC METAL OR WOOD POST OF STAKE COMPACTED BACKFILL MATERIAL DIRECTION OF RUNOFF FLOW SUPPORT POST ANCHORAGE FROM IN-SITU SOIL OR - UNDISTURBED **CEMENT MORTAR** 6" MIN. FILTER FABRIC COMPACTED SOIL BACKFILL OR AGGREGATE **FABRIC ANCHOR DETAIL** (FOR USE WITHIN THE DRIP LINE OF A TREE) - UNDISTURBED GROUND LINE

TREE PROTECTION FENCE DETAIL Scale: NOT TO SCALE LANDSCAPE 3 City of Naperville **TEMPORARY EROSION CONTROL STANDARD MEASURE - SILT FENCE**

SILT FENCE DETAIL

REVISED: 01/01/2013

SHEET 1 OF 2

W:062-055840: M LICENSED PROFESSIONAL ENGINEER OF sikt the EXP 11/30/2021

REVISIONS \triangle

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> **POINT** DLER

ROJ NO:210015 NG : AMS OATE: 05/26/21

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER C4.0

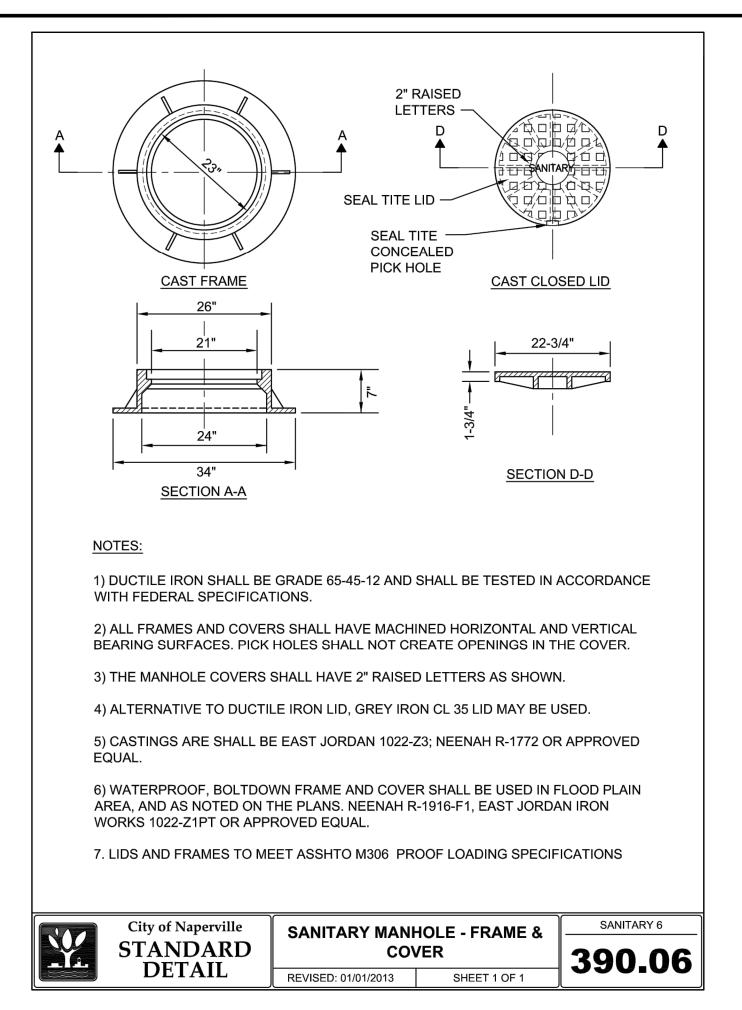
10 OF 12

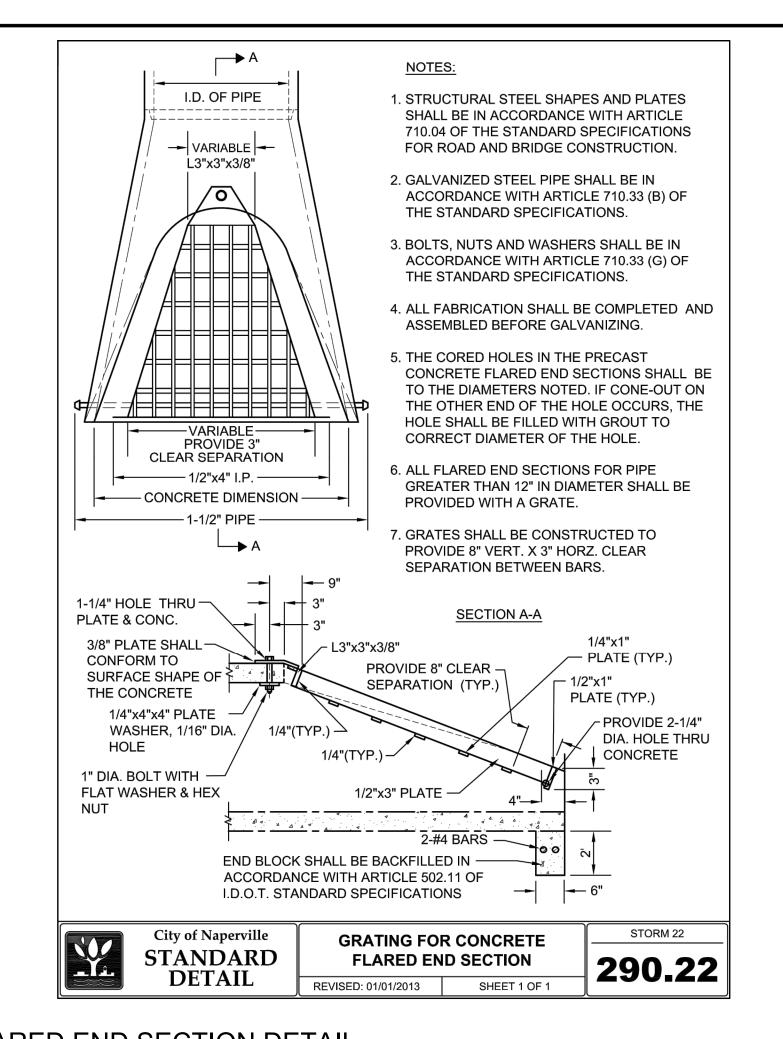
790.03

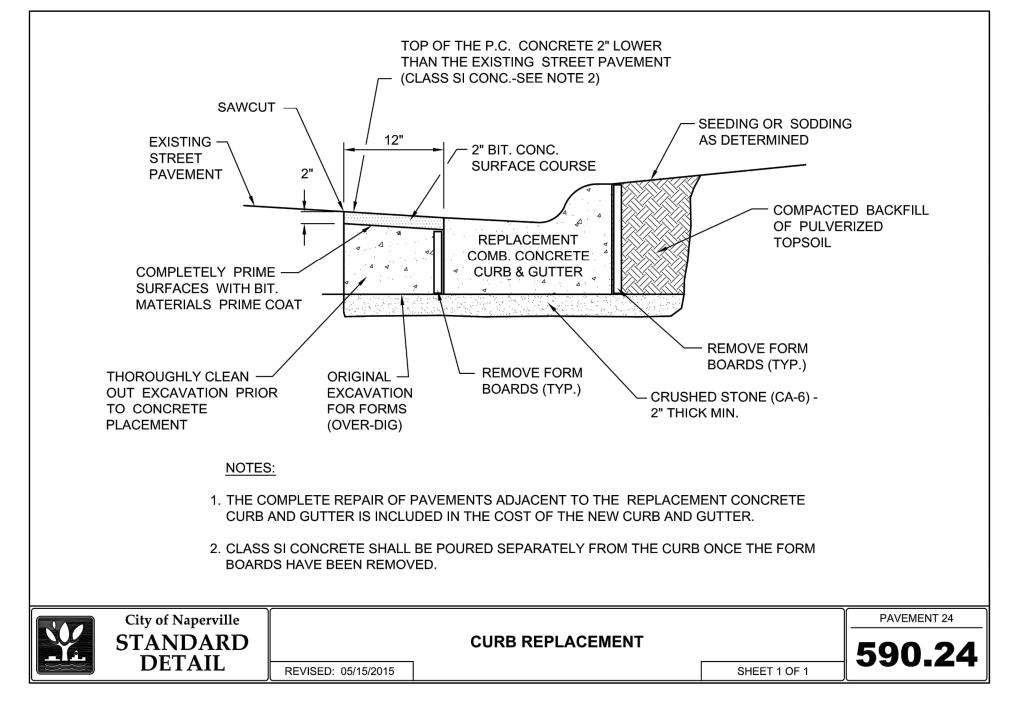
EROSION CONTROL BLANKET DETAIL

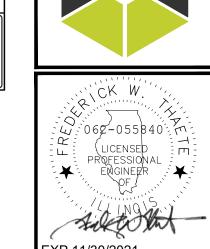
Scale: NOT TO SCALE

CONCRETE WASHOUT DETAIL Scale: NOT TO SCALE









REVISIONS \triangle

△ 07.30.21 REVISED PER CITY

COMMENTS

09.02.21 REVISED PER CITY
COMMENTS

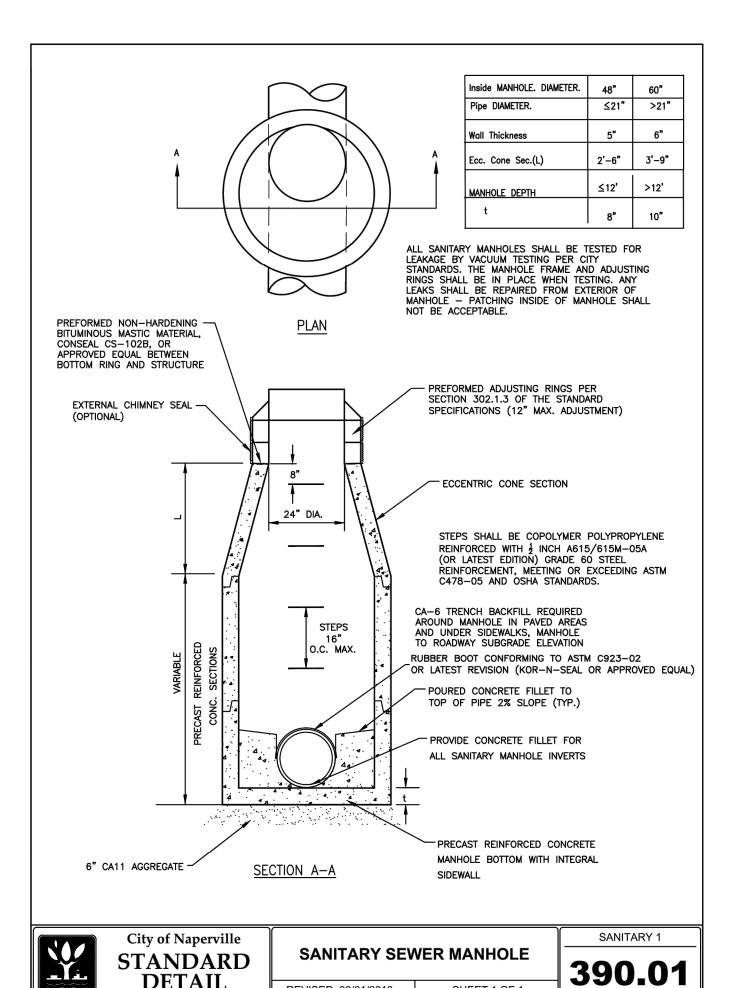
COMMENTS

3 10.29.21 REVISED TO 3 LOTS ↑ 11.15.21 REVISED PER CITY

COMMENTS

SANITARY FRAME & COVER DETAIL

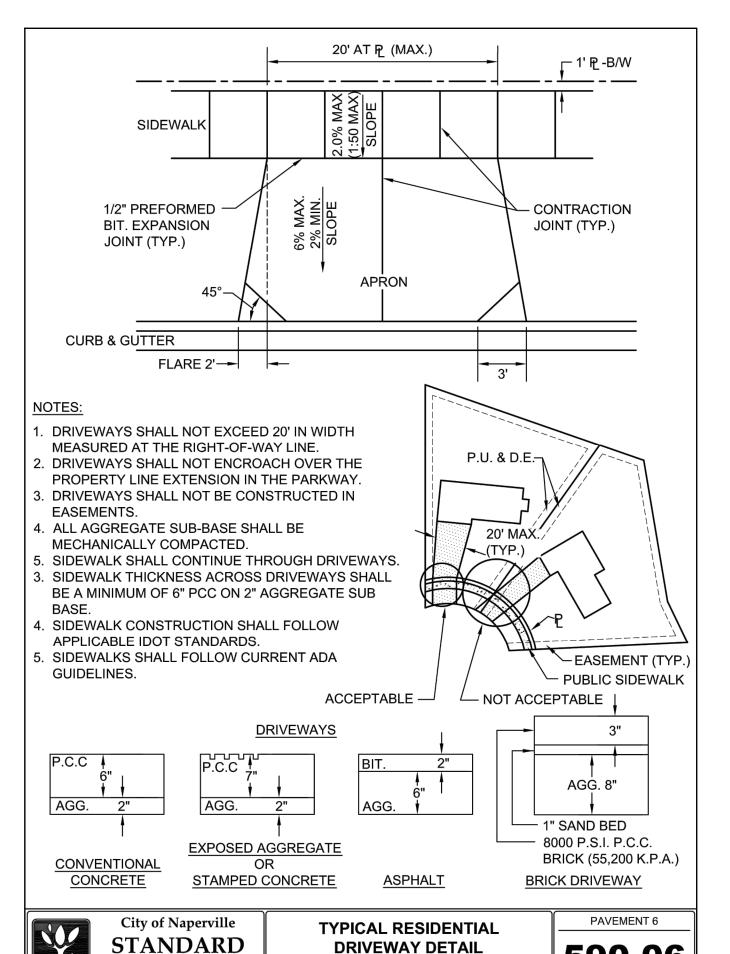
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REVISED: 08/01/2018

SHEET 1 OF 1





DRIVEWAY DETAIL

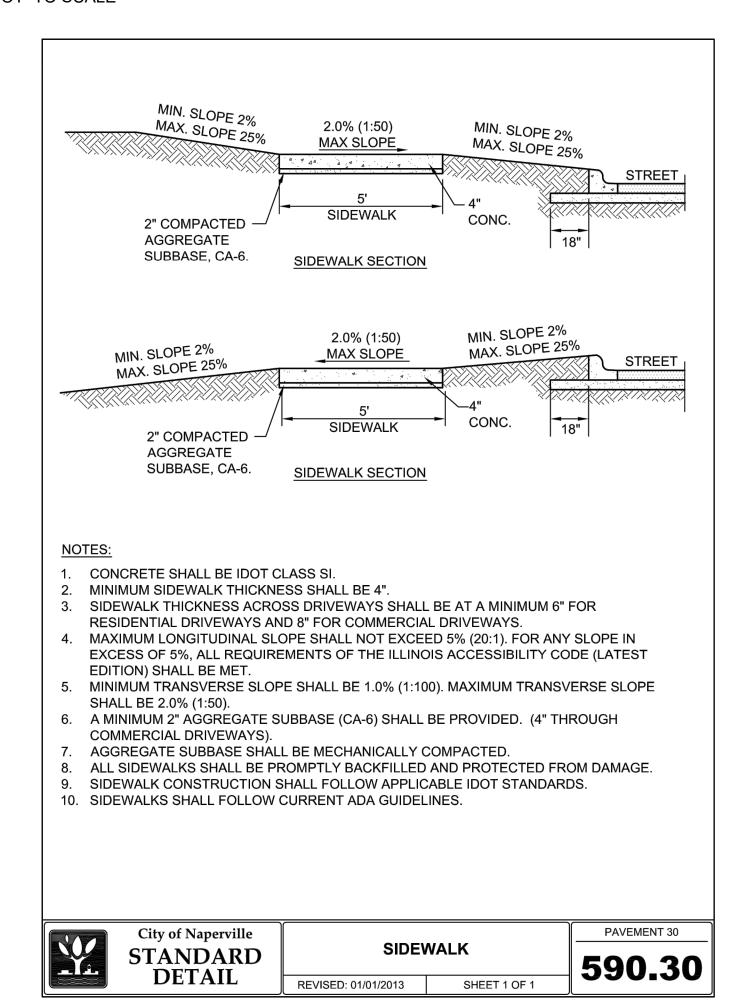
REVISED: 01/01/2013 SHEET 1 OF 2

DETAIL

590.06

CURB REPLACEMENT DETAIL

Scale: NOT TO SCALE



POIN DLER

ROJ NO:210015 NG : AMS ATE: 05/26/21

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER

SANITARY MANHOLE DETAIL

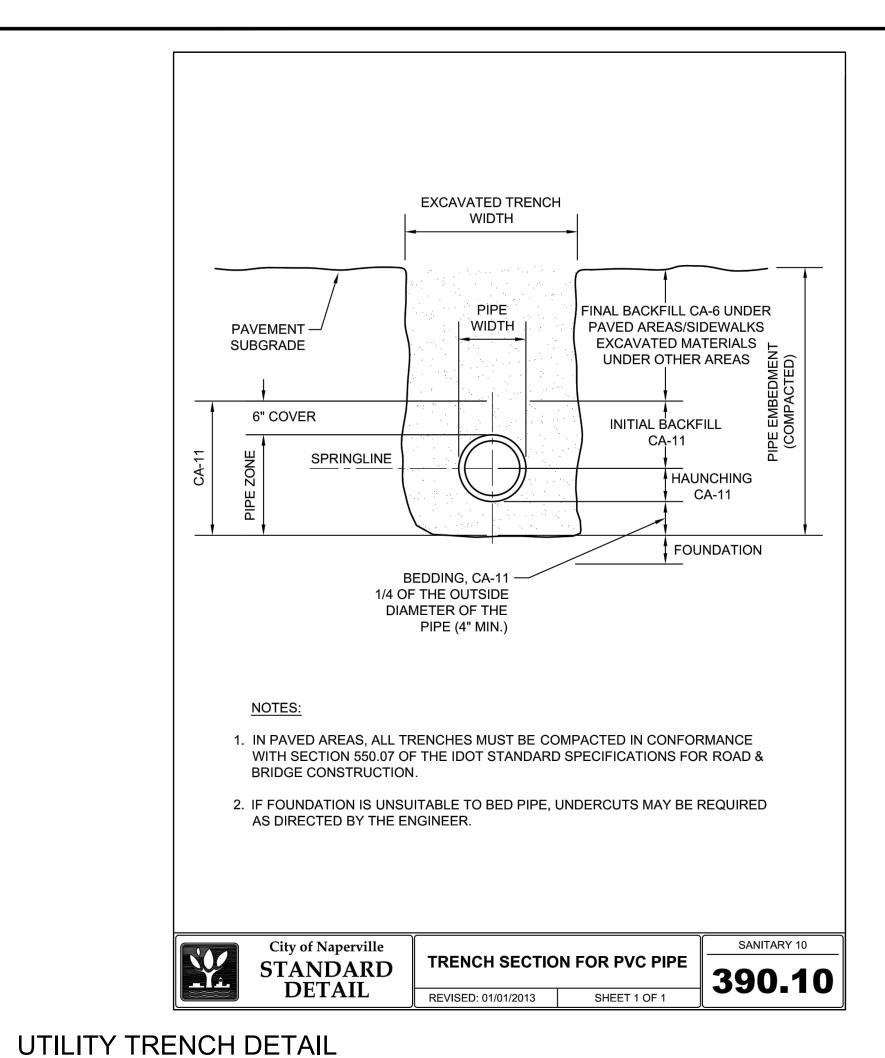
Scale: NOT TO SCALE

TYPICAL RESIDENTIAL DRIVEWAY DETAIL Scale: NOT TO SCALE

SIDEWALK DETAIL

Scale: NOT TO SCALE

C4. 11 OF 12





TO BE INSTALLED IF NOT

OPEN END DUCTILE IRON TEE WITH TRANSITION GASKET ON VERTICAL DROP IF PVC IS UTILIZED

SUPPLIED BY RELINER DURAN OR EQUAL) ANCHORED AT 4'

INTERVALS WITH & Ø STAINLESS

ASTM D-2241 PIPE

AND TOP OF SEWER MAIN.

1056R OR APPROVED EQUAL.

City of Naperville

STANDARD

DEGREE 📙

SECTION A-A

2. FLOWLINE OF DROP SHALL BE LOCATED BETWEEN SPRINGLINE

3. EXISTING FLOW THROUGH MANHOLE SHALL BE UNOBSTRUCTED

DURING CONSTRUCTION OR BYPASS PUMPED PER CITY APPROVAL.

4. ALL HARDWARE WITHIN MANHOLE SHALL BE 316 STAINLESS STEEL

5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF NAPERVILLE

A SHEAR RING TYPE COUPLING AS MANUFACTURED BY FERNCO, SERIES

DESIGN STANDARDS. INTERIOR DROP AND PROPOSED ELEVATIONS MUST BE

6. FLEXIBLE COUPLING CONNECTING DUCTILE IRON. PIPE TO PVC PIPE SHALL BE

SANITARY MANHOLE - INTERIOR

DROP CONNECTION

REVISED: 01/01/2013 SHEET 1 OF 1

1. PVC PIPE WITHIN MANHOLE SHALL BE SDR-26.

APPROVED BY DEPARTMENT OF PUBLIC UTILITIES.

STEEL PIPE STRAPS (AS

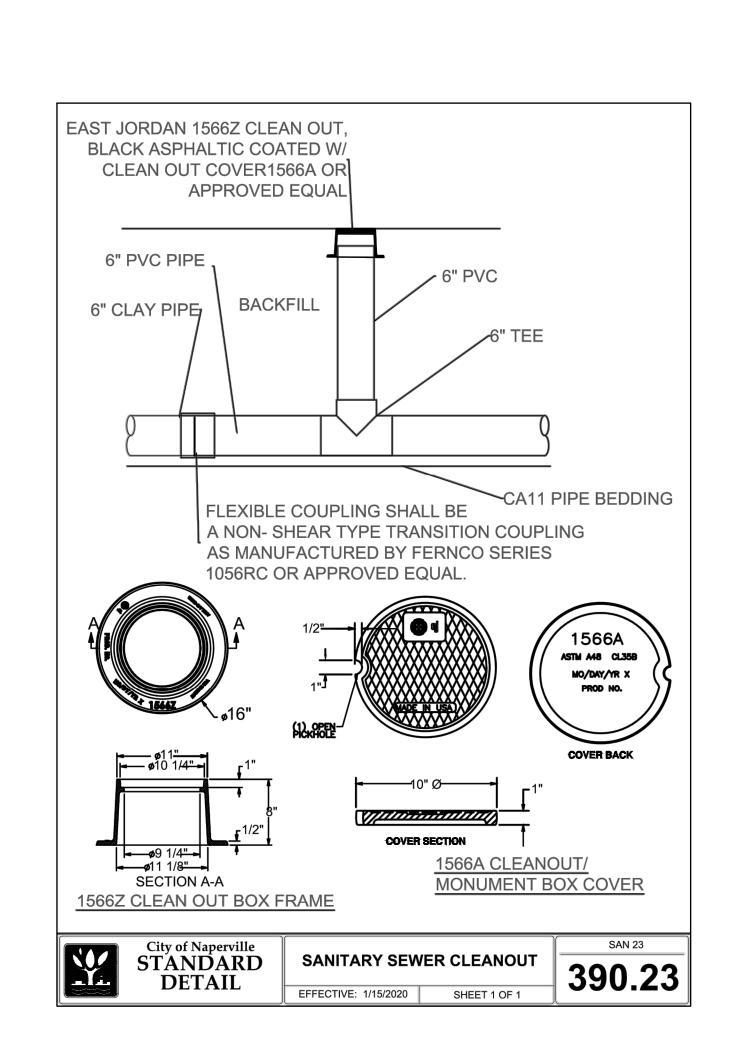
STEEL ANCHOR BOLTS

NOTES:

Scale: NOT TO SCALE

PVC SDR 26

EXISTING TO BOTTOM OF MANHOLE



STAINLESS STEEL NON-SHEAR TYPE COUPLING-DUCTILE IRON PIPE TO PVC

CORE EXISTING MANHOLE AND PROVIDE ELASTOMERIC BOOT CONFORMING TO ASTM C923-02 & A 167-99 2004 OR LATEST REVISION WITH STAINLESS

STEEL BANDS (KOR-N-SEAL, PSX, OR

PROPOSED DUCTILE IRON PIPE WITH POLYETHELYNE ENCASEMENT

BE BACKFILLED

MIN. (20') ONE FULL
LENGTH OF DUCTILE
IRON PIPE CLASS 50

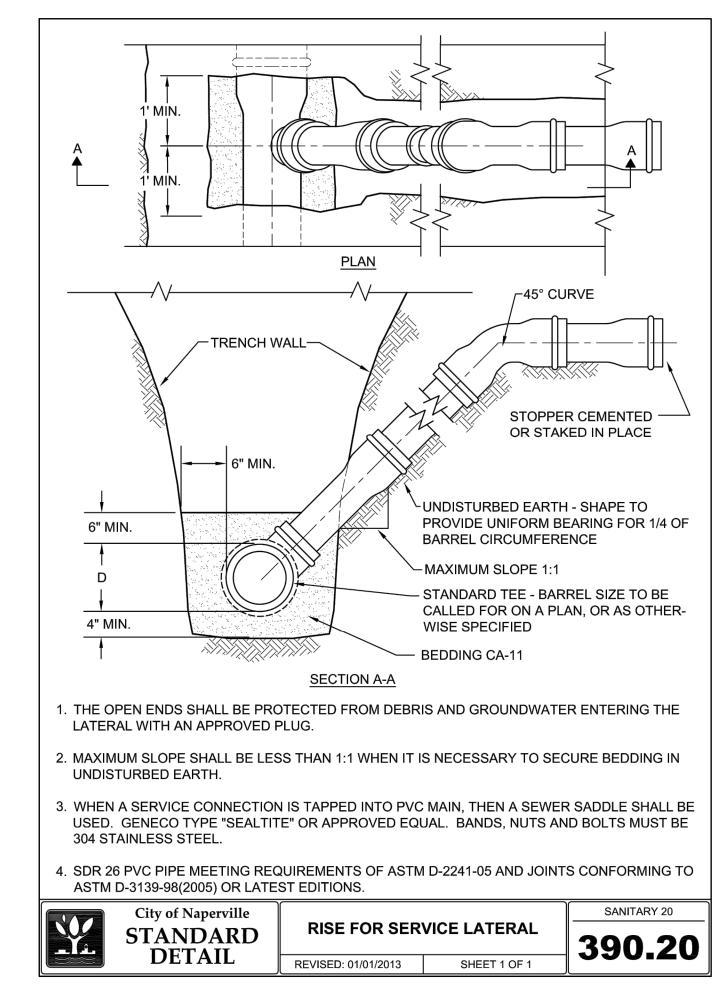
PROVIDE CONCRETE 2% SLOPED FILLET TO EXISTING CONCRETE BENCH

│──IF DROP IS GREATER THAN 4'

SANITARY 3

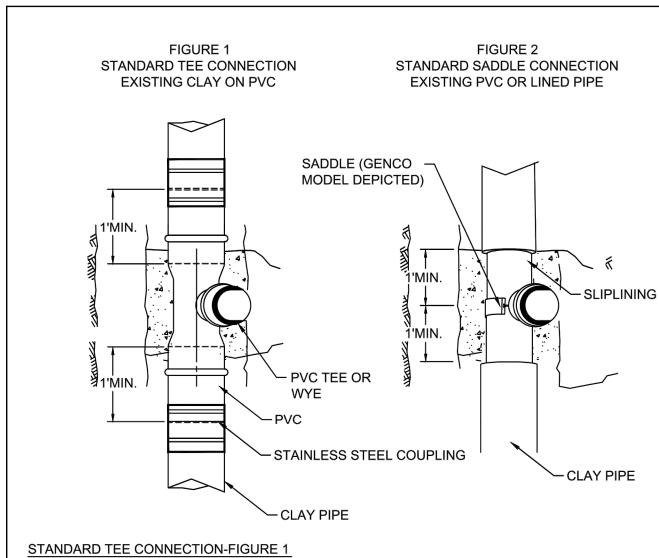
390.03

APPROVED EQUAL)



RISE FOR SERVICE LATERAL DETAIL

Scale: NOT TO SCALE



- BYPASS OR RESTRICT FLOW IN PIPE AS REQUIRED.
- 2. SAW CUT AND REMOVE EXISTING PIPE TO MINIMUM EXTENT SHOWN IN FIGURE 1.
- 3. INSTALL STANDARD PVC TEE AND PIPE AS SHOWN, PVC SHALL BE SDR26, ASTM 2241.
- 4. FLEXIBLE COUPLING SHALL BE A NON-SHEARING TYPE TRANSITION COUPLING: FERNCO STRONG BACK RC 1000 SERIES, CASCADE STYLE CSS COUPLING, OR APPROVED EQUAL.

STANDARD SADDLE CONNECTION FIGURE 2

- 1. FOR LINED PIPE CAREFULLY REMOVE OLD CLAY PIPE TO MINIMUM EXTENT SHOWN WITHOUT DAMAGING LINER PIPE.
- 2. HOLES FOR SADDLE INLET SHALL BE LAID OUT USING SADDLE AS TEMPLATE AND CUT WITH APPROPRIATE EQUIPMENT NOT DAMAGE THE PIPE TO REMAIN. HOLE TO BE BE DE BURRED AND BEVELED WHERE REQUIRED TO PROVIDE HOLE SLOPE TO CONFORM TO THE FITTING.
- 3. SADDLE SHALL BE SEALTITE TEE "U" MODEL 40 BY GENCO, CASCADE STYLE CSWRY OR CSWRT, OR APPROVED EQUAL.



Scale: NOT TO SCALE

City of Naperville **STANDARD** DETAIL

SANITARY SERVICE DETAIL

SANITARY SEWER SERVICE CONNECTION REVISED: 08/01/2018 SHEET 1 OF 1

390.21

SANITARY 21

SHEET NUMBER

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REVISIONS \triangle

07.30.21 REVISED PER CITY
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COMMENTS

3 10.29.21 REVISED TO 3 LOTS

11.15.21 REVISED PER CITY

COMMENTS

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ROJ NO:210015

NG : AMS

DETAILS

ATE: 05/26/21

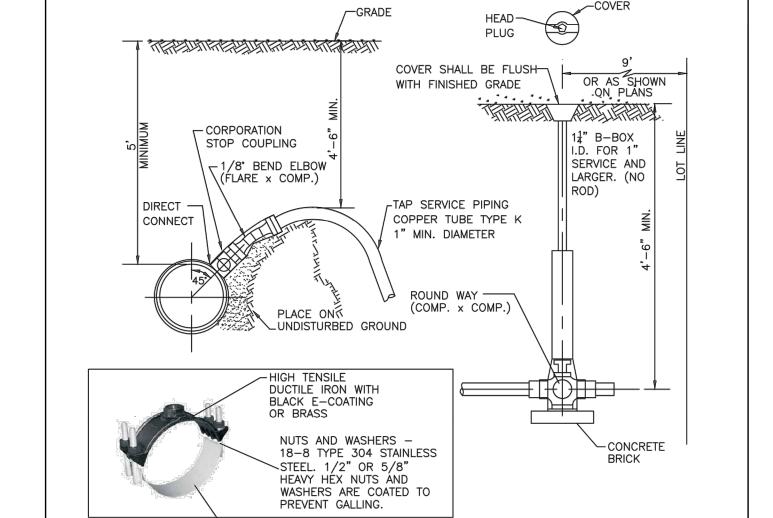
SHEET TITLE

CONSTRUCTION

EXP 11/30/2021

PROFESSIONAL PROFE

C4.2 12 OF 12



1/2"ø OR LARGER SADDLE CONNECTION 1. CORPORATION IS TO BE FLARING TYPE (FORD F-600 OR EQUAL BY MUELLER OR A.Y. MCDONALD). FOR SERVICE SIZE 11: A.Y. MCDONALD 4701Q CORP STOP THREADED INLET TO COMPRESSION OUTLET OR EQUAL

2. 1/8" BEND ELBOW - FEMALE FLARE TO COMPRESSION: FORD LA04. OR AN APPROVED EQUAL BY MUELLER, OR A.Y. MCDONALD (NOT AVAILABLE IN IN 14" SIZED SEE NOTE 1.). 3. B-BOX IS ARCH PATTERN AT ROUNDWAY WITH 1-1/4" UPPER SECTION, WITH 1-1/4" BRASS PENTAGON PLUG. SCREW ON B-BOX NOT

4. CURB STOP IS WITH COMPRESSION COUPLING - FORD B44 CURB STOP, OR EQUAL BY MUELLER, OR A.Y. 5. B-BOX HAS 14" THREADED BRASS PENTAGON PLUG WITH THE WORD "WATER" IN RAISED LETTERS ON CAP. (1-1/4"

WATER MAIN SIZE

PENT. PLUG FOR 1-1/4" ID. B-BOXES). 6. CORPORATION STOPS SHALL BE INSTALLED A MINIMUM OF 18" FROM PIPE JOINTS AND ENDS. MULTIPLE INSTALLATIONS SHOULD BE STAGGERED AROUND THE MAIN BY 22-1/2 AND SEPARATED FROM EACH OTHER BY 18".

7. WATER SERVICE LINE SMALLER THAN 3" SHALL BE TYPE K COPPER. IF JOINTS ARE REQUIRED DUE TO LENGTH OF SERVICE, THEN ONLY COMPRESSION TYPE COUPLING SHALL BE PERMITTED. NO SOLDERED OR FLARED TYPE JOINTS 8. SERVICE TAPS SHALL REQUIRE SADDLES IN ACCORDANCE WITH CHART BELOW. SADDLES SHALL BE STAINLESS STEEL

DUAL BANDED, DUCTILE IRON OR BRASS SADDLE (FORD FS202, 202BS OR APPROVED EQUAL) REQ'D FOR 9. ALL WATERMAIN AND APPURTENANCES MUST COMPLY WITH SECTION 1417 (A)(1)OF THE SAFER DRINKING WATER ACT (SDWA). ALL PRODUCT USED FOR DISPENSING POTABLE WATER MUST MEET BOTH THE NSF 61 AND NSF 372 TEST OF STANDARDS VIA THIRD PARTY TESTING AND CERTIFICATIONS.



Scale: NOT TO SCALE

City of Naperville STANDARD **DETAIL**

BAND 3-14" MIN. —

SERVICE TAP AND CONNECTION EFFECTIVE: 7/17/2020 | SHEET 1 OF 1

490.20

CONNECTION TYPE

"Ø OR SMALLER DIRECT CONNECTION

1/4"ø OR LARGER SADDLE CONNECTION

1/4"ø OR SMALLER DIRECT CONNECTION

TAP SIZE

Scale: NOT TO SCALE

SANITARY CLEANOUT DETAIL

WATER SERVICE TAP & CONNECTION DETAIL

Scale: NOT TO SCALE