

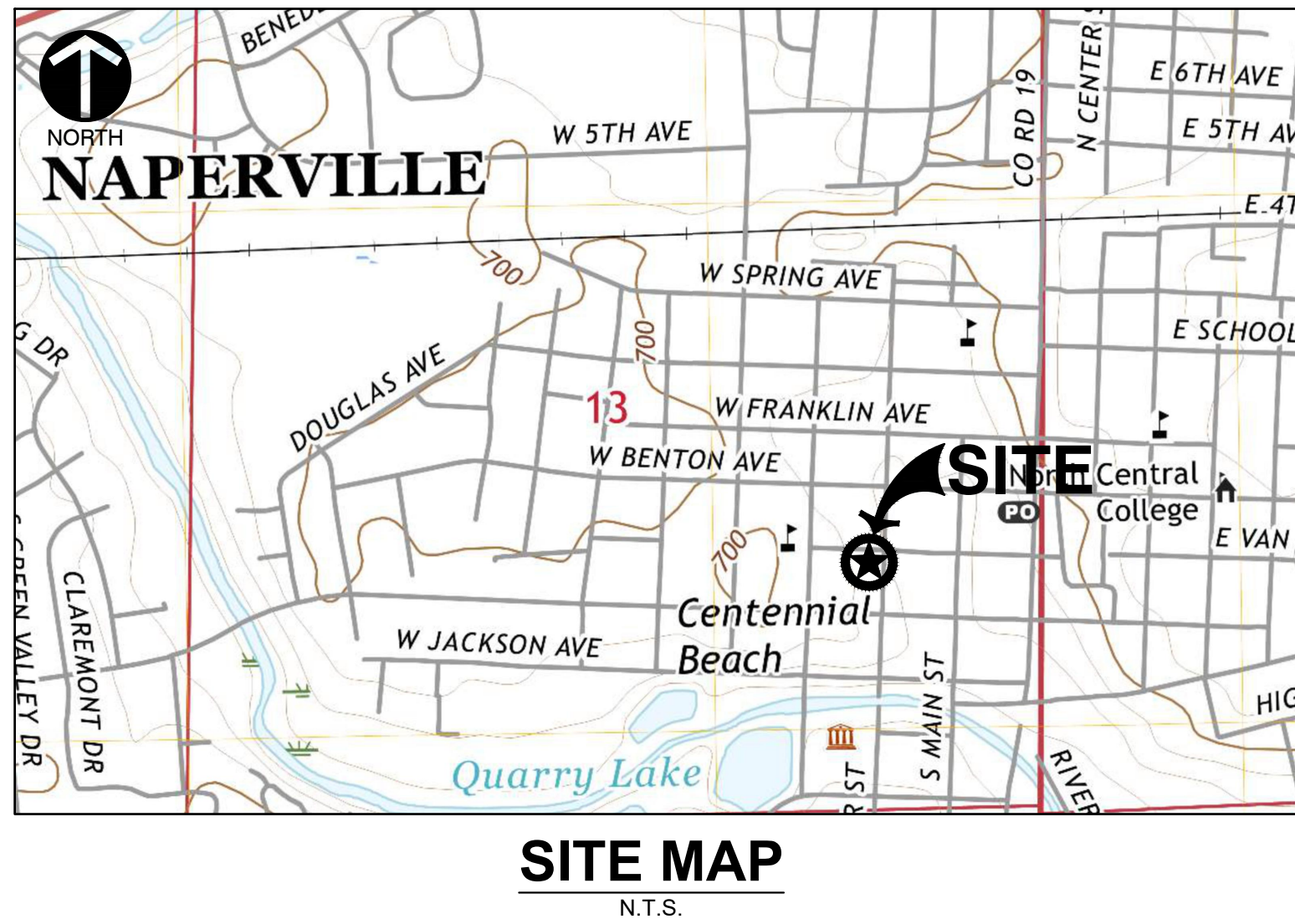
FINAL ENGINEERING PLANS

LOTS 2 AND 3 THE LAUREL SUBDIVISION

NAPERVILLE, ILLINOIS 60540

LEGEND

PROPOSED	EXISTING	DESCRIPTIONS
---	---	BOUNDARY PROPERTY LINE
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY
---	---	UNDERLYING PROPERTY LINE
---	---	CENTER LINE
---	---	EASEMENT LINE
---	---	SETBACK LINE
---	---	SECTION LINE
---	---	INDEX (MAJOR) CONTOUR
---	---	INTERMEDIATE (MINOR) CONTOUR
X X X X	X X X X	EXISTING FENCE LINE
- / - / - / - /	- / - / - / - /	EXISTING WOOD FENCE LINE
---	---	CURB
---	---	EDGE OF PAVEMENT
---	---	EDGE OF GRAVEL
---	---	PAVEMENT SHOULDER
ST	ST	STORM PIPE
→	→	STORM SEWER
W	W	WATER LINE
— SAN —	— SAN —	SANITARY SEWER LINE
FM	FM	PROPOSED FORCEMAIN
G	G	GAS LINE
OH-W	OH-E	OVERHEAD WIRE
E	E	ELECTRIC LINE
C	C	CABLE LINE
FO	FO	FIBER OPTIC LINE
T	T	TELEPHONE LINE
---	---	GUIDE RAIL
---	---	TREELINE
---	---	PROPOSED TRENCH BACKFILL
---	---	PROPOSED CONCRETE
---	---	PROPOSED PAVEMENT
---	---	PROPOSED RIPRAP
---	---	PROPOSED STRIPING
---	---	BUILDING
---	---	PROPOSED SLOPE LABEL
---	---	PROPOSED SPOT ELEVATION
---	---	TOP OF WALL ELEVATION
---	---	BOTTOM OF WALL ELEVATION
---	---	TOP OF CURB ELEVATION
---	---	FLOWLINE ELEVATION
---	---	SANITARY MANHOLE
---	---	CLEANOUT
---	---	FLARED END SECTION
---	---	STORM MANHOLE
---	---	STORM CATCH BASIN (ROUND LID)
---	---	STORM CATCH BASIN (CURB LID)
---	---	STORM CURB INLET
---	---	STORM INLET (CIRCULAR)
---	---	STORM INLET (SQUARE)
---	---	STORM BEEHIVE INLET
---	---	STORM DRAIN OR DOWNSPOUT
---	---	WATER VALVE VAULT
---	---	WATER VALVE BOX
---	---	FIRE HYDRANT
---	---	ELECTRIC CONTROL CABINET (ABOVE GRADE)
---	---	ELECTRIC HANDHOLE
---	---	TRANSFORMER
---	---	ELECTRIC METER
---	---	LIGHT STANDARD
---	---	UTILITY POLE
---	---	TRAFFIC MANHOLE
---	---	TELEPHONE PULL BOX (FLUSH WITH GRADE)
---	---	TELEPHONE BOX/CABINET (ABOVE GRADE)
---	---	CABLE MANHOLE
---	---	FIBER OPTIC BOX/CABINET (ABOVE GRADE)
---	---	FIBER OPTIC MANHOLE
---	---	GAS LINE MARKER
---	---	MANHOLE (UNKNOWN)



- BENCHMARKS:**
- REFERENCE:**
- BERNTSEN MONUMENT IN 6" PVC PIPE WITH BMAC 6 ALUMINUM ACCESS COVER AT THE NORTHWEST CORNER OF 5TH AVENUE AND MILL STREET. (CITY OF NAPERVILLE BENCHMARK #1506)
ELEVATION=690.61 (NAVD88)
- SITE:**
- CUT CROSS IN CURB OPPOSITE HYDRANT AT NORTHWEST CORNER OF BUREN AVENUE AND WEBSTER STREET.
ELEVATION=680.20
 - CUT CROSS IN CURB OPPOSITE LIGHT POLE EAST SIDE OF WEBSTER STREET, 64'± NORTH OF SOUTHERLY PROPERTY LINE OF SUBJECT SITE EXTENDED.
ELEVATION=680.21
 - CUT CROSS IN FRONT OF WALK, 1'± NORTH OF BRICK AT NORTHWEST CORNER OF WEBSTER STREET AND JEFFERSON AVENUE.
ELEVATION=683.72

PROJECT TEAM

OWNER

TRIFOX PROPERTIEZ, LLC
1240 NORTH ASHLAND AVENUE, #220912
CHICAGO, ILLINOIS 60622
PH: (609) 472-9863
CONTACT: CAITLIN FOXHOVEN

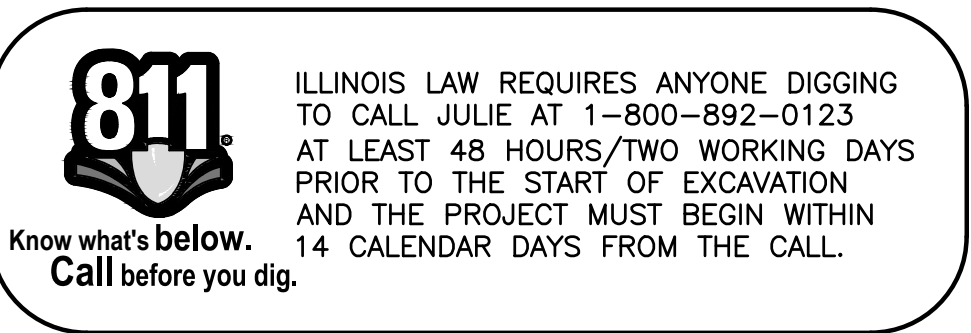
ARCHITECT

TORCH ARCHITECTURE
300 EAST 5TH AVENUE, SUITE 102
NAPERVILLE, ILLINOIS 60563
PH: (630) 420-1900
CONTACT: TORY HANNAN, AIA

CIVIL ENGINEER

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
1230 EAST DIEHL ROAD, SUITE 200
NAPERVILLE, ILLINOIS 60563
PH: (630) 963-6026
FX: (630) 963-6027
CONTACT: JIM CANEFF, P.E.

Sheet Number	Sheet Title
C000	COVER SHEET
C001	SITE SPECIFICATIONS - 1
C002	SITE SPECIFICATIONS - 2
C003	SITE SPECIFICATIONS - 3
C100	EXISTING CONDITIONS
C101	DEMOLITION PLAN
C200	DIMENSION PLAN
C300	GRADING PLAN
C500	UTILITY PLAN - 1
C501	UTILITY PLAN - 2
C800	DETAILS - 1
C801	DETAILS - 2
C802	DETAILS - 3
C803	DETAILS - 4
C804	DETAILS - 5
C805	DETAILS - 6



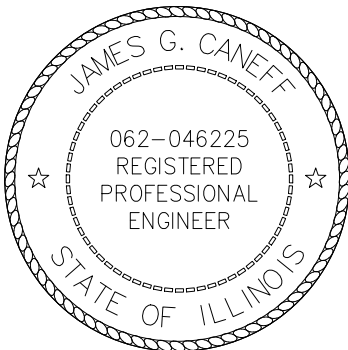
STATE OF ILLINOIS }
COUNTY OF DUPAGE } SS

I, JAMES G. CANEFF, AN ILLINOIS PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC., ILLINOIS LICENSED PROFESSIONAL DESIGN FIRM NO. 184.004002, LICENSE EXPIRES APRIL 30, 2025. UNDER MY PERSONAL DIRECTION FOR THE EXCLUSIVE USE OF THE CLIENT NOTED BELOW. REPRODUCTION OR USE BY THIRD PARTIES IS STRICTLY PROHIBITED WITHOUT THE WRITTEN PERMISSION OF THE UNDERSIGNED.

GIVEN UNDER MY HAND AND SEAL THIS 6TH DAY OF JUNE, 2024.

James G. Caneff

ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 46225
REGISTRATION VALID THROUGH NOVEMBER 30, 2025
(NOT VALID WITHOUT ORIGINAL SIGNATURE)



- REFERENCE**
- EXISTING CONDITIONS ARE BASED UPON FIELD OBSERVATIONS MADE ON MARCH 4-5, 2024 BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
 - FIELD DATUM: US SURVEY FOOT, CITY OF NAPERVILLE DATUM NAVD 88.
 - UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON FIELD OBSERVATIONS, ATLAS MAPS PROVIDED BY THE CITY OF NAPERVILLE AND THOSE PUBLIC UTILITY COMPANIES OPERATING UNDER FRANCHISE OR CONTRACT WITH THE CITY OF NAPERVILLE.

REVISION RECORD

NO	DATE	DESCRIPTION
1	06/17/2024	REVISED PER CITY REVIEW DATED 05/06/2024
2	06/04/2024	REVISED PER CITY REVIEW DATED 06/04/2024

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Civil & Environmental Consultants, Inc.

TRIFOX PROPERTIEZ, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

COVER SHEET

DATE:	APRIL 10, 2024	DRAWN BY:	IMAJ
DWG SCALE:	AS SHOWN	CHECKED BY:	JGC
PROJECT NO.:	341-027	APPROVED BY:	JJGC

DRAWING NO. **C000**

SHEET 1 OF 16

PROJECT TECHNICAL SPECIFICATIONS

1. GENERAL NOTES

A. DEFINITIONS

- (1) Whenever in these Project Technical Specifications the following terms are used, the intent and meaning shall be interpreted as follows:
(a) Governing Agency: Government or regulatory entity with authority to implement and enforce specific laws, permit requirements, or construction requirements.

B. GOVERNING REGULATIONS

- (1) All project activities and improvements shall be in accordance with the Governing Agency regulations. In the event of conflict with these Project Technical Specifications, or the indicated Reference Specifications, the Governing Agency regulations shall apply.

C. REFERENCE STANDARDS AND SPECIFICATIONS

- (1) Site development activities and improvements, including site preparation and demolition, earthwork, sanitary sewers, storm drainage, water supply, pavement, lighting, landscape improvements, and erosion/sediment control measures shall be in accordance with the Reference Specifications indicated throughout these Project Technical Specifications.

D. CONTRACT GENERAL CONDITIONS

- (1) These Project Technical Specifications supplement the engineering plans, the Agreement between Owner and Contractor, and other supplemental documents that comprise the overall Project Contract.
(2) The Contractor shall be responsible for complying with applicable Federal, State, and local requirements, together with exercising precaution at all times for the protection of persons (including employees) and property.

E. QUALITY CONTROL OF MATERIALS

- (1) Materials shall be inspected, sampled, and tested before, during, and after they are incorporated into the work.
(2) Materials not conforming to the requirements of the Project Technical Specifications at the time they are used or installed will be considered unacceptable and shall be removed and replaced with acceptable materials properly installed in place at the Contractor's expense.

2. EXISTING CONDITIONS & SITE PREPARATION

A. EXISTING CONDITIONS

- (1) Existing conditions as depicted on the Plans are general and illustrative in nature. It is the responsibility of the Contractor to examine the site and be familiar with existing conditions prior to initiating construction.
(2) It is not the Engineer's intent that any single plan sheet in the Plans fully depicts all work associated with the project.

B. EXISTING UTILITIES

- (1) Underground utility information shown on the Plans may be based upon a combination of topographic survey data, field observations, historical utility maps, Owner-provided information, or other available data for the Site.
(2) Contractor shall be responsible for contacting all agencies, utility companies, and pipeline companies known or suspected to have buried cable, duct, sewer, pipes, etc., which may conflict with the project improvements to determine the location and depth of the existing utilities.

C. EROSION / SEDIMENTATION CONTROL

- (1) Erosion/sedimentation control measures, as indicated on the Plans and as required elsewhere in these Project Technical Specifications, shall be employed during the course of construction operations and until suitable ground covers are established on all construction site areas.

D. CONSTRUCTION ACCESS

- (1) Construction ingress-egress shall be limited to defined connections to adjacent driveways and public roadways, and as indicated on the plans and as required elsewhere in these Project Technical Specifications.

E. TRAFFIC CONTROL

- (1) The Contractor shall provide necessary traffic control for work performed in active transportation areas, including any specific traffic control requirements as indicated on the Plans.

F. TEMPORARY CONSTRUCTION FENCING

- (1) Temporary construction fences shall be installed where indicated on the Plans and where required by the Engineer to restrict access to and from certain areas.
(2) Temporary construction fences shall consist of 48-inch-high plastic fabric, metal fabric, or wood lathe fence material (approved by the Engineer, prior to placement) attached to suitable metal posts that are set at 6-foot (or less) intervals and anchored at least 18 inches into the ground.

G. TREE AND LANDSCAPE PROTECTION

- (1) Highly visible temporary fences shall be placed around trees and landscape areas designated for protection. Vehicles, equipment, and material storage shall not be allowed within the protection zone.

- (2) Vehicle and equipment parking and material storage shall not be permitted within the drip line of any tree, even if the tree is not enclosed in a protective barrier.
(3) Overhanging tree branches within the construction zone that are expected to come in contact with construction equipment shall be properly removed (sawcut) prior to construction in the area.

H. MATERIAL DISPOSAL

- (1) All demolition waste and construction debris shall become the property of the Contractor unless otherwise stated in the Agreement between Owner and Contractor.
(2) The following shall be removed from the construction site and properly disposed of in a legal manner. Unless otherwise stated in the Agreement between Owner and Contractor, the cost of removal and disposal shall be included in the fixed or unit prices for the various contract pay items and no additional payment will be allowed therefor.
(a) All surplus excavated materials.

3. EARTHWORK OPERATIONS

A. GENERAL

- (1) Except where modified by the following Project Technical Specifications, all earthwork operation and compaction requirements shall be in conformance with the material, installation and testing requirements of the IDOT Standard Specifications.
(2) Earthwork shall include site clearing, tree and hedge removal, topsoil and rootmat stripping and stockpiling, earth and fill material excavation, construction of embankments and slopes, placement and compaction of non-structural fill areas, pavement areas, and structural fill areas, removal and disposal of surplus and unsuitable excavated materials, topsoil placement, and final shaping and trimming to the lines and grades indicated on the Plans.

B. SITE CLEARING

- (1) All construction site features and items such as structures, foundations, fences, pavements, rubbish/debris, trees, shrubs, and surface vegetation shall be removed where necessary and as indicated on the Plans for the construction of the project improvements.
(2) No tree, shrub, or surface vegetation shall be removed unless it is marked for removal or the Engineer specifically authorizes its removal.

C. TOPSOIL AND ROOTMAT REMOVAL

- (1) Existing topsoil shall be removed from proposed pavement and building areas, non-structural fill areas, and structural fill areas. Sufficient existing topsoil shall be stockpiled for future use as topsoil replacement.
(2) Topsoil supplied from off-site sources shall be natural, fertile agricultural soil material capable of sustaining vigorous plant growth. It shall contain not less than 4% nor more than 10% organic matter, as determined in accordance with AASHTO T194.

D. EXCAVATION

- (1) Existing earth and fill materials within the project construction limits shall be excavated as necessary to establish the elevations, contours, and drainage patterns indicated on the Plans.
(2) Rock materials within the project construction limits shall be excavated to a minimum of 6 inches below subgrade levels of proposed pavements and pipe bedding.

E. FILL PLACEMENT

- (1) Before placing any fill within pavement or structural areas, the existing subgrade shall be compacted as indicated in the "Compaction" section of these Project Technical Specifications.
(2) Structural fill materials shall be soil materials that can be compacted to develop a stability satisfactory to the Geotechnical Engineer.
(3) Material Types For Structural Fill Purposes:
(a) Suitable Fine-Grained Soils - Soil materials that comply with ASTM D2487 Soil Classification Group CL and meet the following requirements:
(i) Laboratory maximum dry density when determined in accordance with ASTM D698.

(6) Unsuitable Subgrade Conditions:

- (a) Within areas of new or reconstructed pavements, specific requirements for removal and remedial procedures shall be as directed by Geotechnical Engineer.
(2) Removal of unsuitable materials and installation of replacement fill material under and adjacent to proposed buildings and structures shall be as specified by Geotechnical Engineer.
(3) Payment for removal and replacement of unacceptable materials and the installation of geotextile fabric and aggregate fill shall be as indicated in the agreement between Owner and Contractor.

F. FILL COMPACTION

- (1) Fill materials shall be placed in layers (lifts) and compacted in accordance with the following specified requirements.
(2) Cohesive soils and well-graded aggregate mixtures shall be sampled and tested to determine the laboratory maximum density and optimum moisture content (control values) of the material.
(3) Free-draining cohesionless soils and aggregate mixtures shall be sampled and tested to determine the laboratory relative density (control value) of the material.

G. MOISTURE CONTROL

- (1) Where the subgrade, or other layer of soil, must be moisture-conditioned before compaction, the top 12 inches of the material shall be scarified or disked and then dried or moistened as required to achieve compaction.

H. GRADING TOLERANCES

- (1) Surface elevations shall be within the following indicated tolerances.
(a) Under vehicle, pedestrian, and drainage control pavements, and building floor slabs: -0.08 to +0.04
(b) Drainage swales and stormwater basins: -0.10 to +0.10
(c) Embankments and slopes other than (b) above: -0.15 to +0.15

I. RESTORATION

- (1) Previously prepared earth subgrade areas that are damaged by soil erosion or construction activities shall be repaired and graded to design contours and elevations before placement of pavement materials or topsoil.

J. TOPSOIL PLACEMENT

- (1) Topsoil shall be placed on all of the following areas. Minimum topsoil depth shall be 6 inches unless otherwise indicated on the Plans.
(2) Within new wetland areas, topsoil shall be placed in a manner to minimize compaction of the material.

K. DISPOSAL OF MATERIALS

- (1) Surplus soil materials remaining after completion of fill placement and construction of berms shall be removed from the site and disposed of in legal manner, unless directed by the Owner to stockpile on-site for future use.
(2) Removal and disposal of existing utility pipes and structures, construction debris, or other obstructions which interfere with proposed construction and which are not indicated in the Agreement between Owner and Contractor as a separate pay item shall be considered incidental to the earthwork operations.

4. SANITARY SEWERS, STORM DRAINAGE AND WATER SUPPLY SYSTEMS

A. GENERAL

- (1) REFERENCE SPECIFICATIONS
(a) Sanitary sewers, storm drainage, and water supply improvements shall be constructed in accordance with the material, installation and testing requirements of the "Standard Specifications for Water and Sewer Main Construction in Illinois," current edition; except where said requirements are modified by these Project Technical Specifications.

(2) UNSUITABLE SOIL CONDITIONS

- (a) When unsuitable soil conditions are encountered under pipes or structures that require the removal of unsuitable materials below the depth of the standard bedding, the Contractor shall replace the material removed with granular material approved by the Geotechnical Engineer.
(3) PIPE BEDDING, HAUNCH SUPPORT & INITIAL BACKFILL
(a) Concrete pipe, clay pipe, ductile iron pipe, cast iron pipe, and other types of pipe classified as rigid shall be placed on a 4-inch layer of compacted granular bedding material.

(4) GRANULAR BACKFILL

- (a) Selected granular material shall be used to backfill excavated trenches under all existing and proposed vehicle pavements and sidewalks, trenches with edges closer than 2 feet from edges of existing and proposed vehicle pavements and sidewalks, and where specifically indicated on the Plans.
(b) Selected granular backfill material placed in trenches under existing and proposed pavements shall be placed in uniform layers not exceeding 6 inches (loose measured) and compacted with mechanical equipment to 95% of the standard proctor density in accordance with the applicable AASHTO or ASTM requirements.

(5) STRUCTURE ADJUSTMENT

- (a) Adjustments may be necessary to ensure that frames and grates match the elevation of the surrounding pavement or ground surface.
(b) 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.

(6) MARKER POSTS

- (a) Sewer and water main structures, valves boxes, and the end location of sewer stubs and building services shall be marked with a 4 x 4 x 8" wood post. Four feet of the post shall stand aboveground.

B. SEPARATION OF WATER MAINS AND SEWERS

- (1) HORIZONTAL SEPARATION
(a) Water mains shall be located at least 10 feet horizontally (edge to edge) from existing or proposed sanitary sewers and storm sewers.
(2) VERTICAL SEPARATION
(a) Whenever a water main crosses a sanitary sewer or a storm sewer, the water main shall be separated from the sewer so that the bottom of the water main is at least 18 inches above the top of the sewer.

C. SANITARY SEWERS SYSTEMS

- (1) See City of Naperville Department of Public Utilities (DPU) Water/Wastewater General Notes.

D. STORM DRAINAGE SYSTEMS

- (1) See City of Naperville - Transportation, Engineering, and Development (TED) Business Group Plan Notes for Development Projects.

E. WATER SUPPLY SYSTEMS

- (1) See City of Naperville - Department of Public Utilities (DPU) Water/Wastewater General Notes.

5. PAVEMENT CONSTRUCTION

A. GENERAL

- (1) All roadway, driveway, parking area, storage area, and sidewalk pavements (including curbs and shoulders) shall be constructed in accordance with the material and installation requirements of the current edition of the IDOT Standard Specifications, except where said requirements are modified by the following Project Technical Specifications.
(2) Pavement markings and markers, and traffic control signs and devices, shall be provided, installed, and removed in accordance with the requirements of the IDOT Standard Specifications, except where said requirements are modified by the following Project Technical Specifications.

REVISION RECORD table with columns: NO., DATE, DESCRIPTION

1230 East Diehl Road
Suite 200
Naperville, IL 60563
Ph: 630.963.6026
www.cecinco.com

TRIFOX PROPERTIES, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

Drawing information table including DATE, DRAWN BY, CHECKED BY, and SHEET 2 OF 16

Table with 8 columns (numbered 8-1) and 12 rows (labeled A-L). It contains detailed technical specifications and procedures for site construction, covering topics like pavement preparation, concrete curing, erosion control, and grading. Includes a table for HMA Mixture Requirements (Table 2).

Revision Record table and project information. Includes address: 1230 East Diehl Road, Suite 200, Naperville, IL 60563. Project name: TRIFOX PROPERTIES, LLC LOTS 2 AND 3 THE LAUREL SUBDIVISION. Client: Civil & Environmental Consultants, Inc. Drawing No.: C002, Sheet 3 of 16.

CITY OF NAPERVILLE - DEPARTMENT OF PUBLIC UTILITIES
WATER/WASTEWATER GENERAL NOTES

- New water main valves, including pressure tap valves, adjacent to an existing water main, and existing 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 TED Business Group at 630-420-6082 for scheduling.
- Any existing utility structures requiring adjustment or reconstruction shall be completed by the contractor to the satisfaction of the utility owner. Adjustments and/or 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. Concrete adjusting rings are not allowed.
- 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, but not limited to, manholes, valve vaults, valve boxes and fire 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.
- All retainer blinds when required to restrain valves, fittings, hydrants, and pipe joints shall be mechanical joint wedge 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".
- Existing ductile iron systems for restraining push-on pipe bells shall be MEGALUG SERIES 1100HD or FORD SERIES 1390.
- Existing ductile iron systems requiring restraint shall be MEGALUG SERIES 1100SD (split MEGALUG) for mechanical joints.
- 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.
- A set of as-built record drawing shall be given to the City of Naperville upon completion of improvements showing the elevation and location (tied to two points) of all new and existing structures including fire hydrants, valve boxes and vaults, linepost sleeves, water service corporation stops, water main fittings/bends, manholes, sanitary service wyes (measured from downstream manhole), and abandoned sanitary service lines. 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.
- All sanitary sewer piping shall be PVC pipe meeting the requirements of ASTM D-2241 with joints conforming to ASTM D-3139. All sanitary sewer fittings shall be PVC meeting the following requirements: 4" to 12" shall be Injection Molded Fittings meeting ASTM D-2241. Greater than 12" shall be Fabricated Fittings meeting ASTM D-2241 or C905. Minimum pressure rating shall be 150 psi.
- 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 approved from one of the following manufacturers: American, Clow, Waterson or Kennedy.
- 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-seize compound shall be factory applied to nuts or bolts - any damage to this coating shall be repaired with field applied approved anti-seize compound that is a molybdenum-base lubricant, Boskic Never-Seez or approved equal.
- The contractor shall rotate and/or adjust any existing and/or new hydrant to the satisfaction of the Department of Public Utilities.
- Water mains shall be subjected to a hydrostatic/leakage test in accordance with Naperville Standard Specifications. Test pressure shall be no less than 150 psi for a period of 4 hours and not vary by more than 2 psi, during the test. The test gauge shall be approved by the City and shall be glycerin or oil filled, with a range of not more than 200 psi and increments not greater than 5 psi, 4" minimum dial size. Water recovery test shall be completed at the end of the testing period to show actual leakage. In all cases, the water main did not have to be main trapped in the tested section.
- The City of Naperville Public Utilities does not guarantee that any valve or fitting in the existing water distribution system will hold against a hydrostatic/leakage test. The Contractor is solely responsible for providing and acceptable pressure test which shall include provisions around existing valves and fittings.
- Fire hydrant should be bagged "NOT IN SERVICE" until all testing and disinfection has been completed and new water main section is service.
- Sanitary sewer and water shall be constructed, tested, and placed into service in accordance with City of Naperville Standard Specification and Specifications for Water and Sewer Main Construction in Illinois, Latest Edition.
- All valve boxes, vaults, hydrants, and manholes shall not be covered with construction debris and shall remain accessible to the respective utility company.
- Water service line smaller than 3" shall be type K copper. If joints are required due to length of service, then only compression type couplings are permitted. No soldered or flared type joints are allowed.
- All sanitary manholes shall be tested for leakage by vacuum testing. The manhole frame and adjusting rings shall be in place when testing. Any leaks shall be repaired from exterior of manhole - patching inside of manhole shall not be acceptable. A vacuum of 10" (254 mm) Hg shall be placed on the manhole and the time shall be measured for the vacuum to drop to 9" (229 mm) Hg. The vacuum shall not drop below 9" (229 mm) Hg for the following time periods for each size of manhole:
 - 48-inch diameter - 60 seconds
 - 60-inch diameter - 75 seconds
 - 72-inch diameter - 90 seconds
 - 84-inch diameter - 105 seconds
- Any manholes that fail the test shall be sealed and re-tested until acceptable.
- The contractor shall provide internal televised inspection of all installed sanitary sewer, laterals, manholes and connections to the public system. Following completion of televising work, the contractor shall submit video recordings on DVD or flash drive along with a comprehensive televising report which will indicate the location, footage and nature of any defects. Prior to final acceptance, these defects shall be repaired to the satisfaction of the Water/Wastewater Utility and re-televised.
- Contractor work hours are only allowed from 7:00 a.m. to 5:00 p.m., Monday through Saturday. No work shall be permitted on Sundays.
- Sanitary pipes with less than 4 feet or more than 25 feet of cover shall be constructed of ductile iron piping (Class 50, minimum) and encased in polywrap.
- All excavations more than 20 feet deep must be protected by a system designed by a registered professional engineer.
- Contractor shall maintain 2" minimum clearance between existing utilities and new foundations and underground facilities. In areas where foundations and underground facilities are proposed adjacent to existing utilities, the contractor shall pot hole by vacuum excavation or hand excavation to locate the existing utility to verify minimum clearance requirement.
- Fences shall be installed a minimum of 5 feet from any water or sanitary mains when running parallel with them. Where fences are installed crossing water or sanitary mains, the posts shall be located to have the main between them.
- All brass components shall be certified to be lead free in compliance with NSF 61 and NSF 372 and identified with applicable markings.
- Sanitary Force Main - Force main shall be tested a minimum of 1 hour at 1.5 the shut off head of the pump, 2.5 times the operating pressure, or 20 psi whichever is greatest. Allowable leakage shall be in accordance with section 41-2.14C of the standard specifications for water and sewer construction.

OTHER NOTES:

- Manholes shall be furnished with a self-sealing frame and solid cover (Neenah Foundry R-1772-CVH, East Jordan Iron Works 1022-3, or equal approved by the City Engineer) with the word "Sanitary" imprinted on the cover in raised letters (see Standard Detail SAN 3). Frames and lids shall meet or exceed AASHTO H-20 loading specifications.
- 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.
- Bolt-down frames and covers shall be Neenah Foundry R-1916-F1, East Jordan Iron Works 1040 ZPT or equal approved by the City Engineer. Frames are to be bolted to cone. Bolt-down frames shall be used where indicated on the plans.
- Manhole frames shall be adjusted to proper grade using reinforced, precast concrete or fiberized rings. Brick or concrete blocks will not be allowed. Fiberized adjusting rings shall be required when frame will be with a roadway area. Final frame adjustment for manholes within the roadway area shall be in accordance with Sections 602 and 603 of Standard Specifications for Road and Bridge Construction, prepared by the Illinois Department of Transportation, latest edition.
- All manhole frames and adjusting rings shall be securely sealed to the cone section or top barrel section of the manhole using resilient, flexible, non-hardening, preformed bituminous mastic material, Con Seal 102 B or approved equal. The mastic shall be applied in such a manner that no surface water or ground water inflow can enter the manhole through gaps between the top barrel section or cone section and the first adjusting ring, between adjusting rings, or between the last adjusting ring and the manhole frame. Up to 12 inches (300 mm) of adjusting rings may be installed on a given manhole. No more than one 2-inch (50 mm) adjusting ring, and no more than two adjusting rings in total shall be used.
- A continuous layer of non-hardening, preformed bituminous mastic material, Con Seal 102 B or approved equal shall be applied to each manhole barrel cone and top section to provide a watertight seal.
- All brass components shall be certified to be lead free in compliance with NSF 61 and NSF 372 and identified with applicable markings.
- The sanitary forceman shall be tested a minimum of one (1) hour at 1.5 times the shut off head of the pump, 2.5 times the operating pressure, or 20 psi, whichever is greatest. Allowable leakage shall be in accordance with section 41-2.14C of the Standard Specifications for Water and Sewer Construction.

GENERAL NOTES

- THE OWNER OR HIS/HER/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 (630-420-6082) 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 JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-992-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
- 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 2:00PM 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 INSPECTIONS(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 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.

STORM SEWER NOTES (GENERAL)

- 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.

STORM SEWER NOTES (STORM SEWER WORK IN PLANS)

- 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 DESIGNATIONS 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 DESIGNATIONS 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 443.
 - DUCTILE IRON PIPE (DIP) - DUCTILE IRON PIPE SHALL CONFORM TO ANSI A 21.51 (AWWA C-151), CLASS THICKNESS DESIGNED PER ANSI A 21.50 (AWWA C-150), TAR (SEAL) COATED AND CEMENT 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 F58. 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 324420C 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 IDOT 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 COUPLERS; CASCADE CSS, ROMAC LSS, FERMO, 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, OR 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.

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

- 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, OR APPROVED EQUAL.
 - BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, OR APPROVED EQUAL.
 - DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, OR APPROVED EQUAL.
 - MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, OR APPROVED EQUAL.

- 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.
- ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR 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 PLAGS. 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 UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

ADJUSTMENTS MAY BE NECESSARY TO ENSURE THAT FRAMES AND GRATES MATCH THE ELEVATION OF THE SURROUNDING PAVEMENT OR GROUND SURFACE. PREFORMED ADJUSTING RINGS OF THE PROPER DIMENSIONS NEEDED TO MATE THE FRAME TO THE PRECAST STRUCTURE SHALL BE USED. 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 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.

A RESILIENT, FLEXIBLE, NON-HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL, CONSEAL 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.

ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH HYDRAULIC RINGS OR ELASTOMERIC JOINT SEALANT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING CEMENT AND TO MAINTAIN WATER-TIGHTNESS.

FRAME ADJUSTMENTS SHALL BE COMPLETED IN ACCORDANCE WITH SECTIONS 602 AND 603 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION, EXCEPT AS NOTED HEREIN.

EROSION CONTROL AND DRAINAGE NOTES (GENERAL)

- 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 TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAR 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.

EROSION CONTROL AND DRAINAGE NOTES (PROJECT SPECIFIC)

- 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. INLET BASKETS ARE THE PREFERRED METHOD. 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 RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.
- 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.

GEOMETRIC AND PAVING NOTES (GENERAL)

- 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.
- 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, DRIVEWAY) UP TO CITY 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, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW CUT SHALL BE IN A NEAR STRAIGHT LINE SO THAT IT REMAINS A SMOOTH VERTICAL EDGE. THE SAW CUT SHALL 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.

TRAFFIC CONTROL AND PROTECTION NOTES (GENERAL)

- 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.
- A MINIMUM 72 HOUR NOTICE IS REQUIRED FOR TRAFFIC CONTROL THAT REDUCES THE WIDTH OF A TRAVEL LANE LESS THAN 12 FEET OR CLOSES A LANE. APPROVAL FROM THE CITY ENGINEER WILL BE REQUIRED PRIOR TO THE IMPLEMENTATION OF SUCH TRAFFIC CONTROL LAYOUT.
- LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF NAPERVILLE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-9AM AND 3PM-7PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. LANE CLOSURES ON ARTERIAL STREETS ARE PERMITTED BETWEEN 7AM AND 7PM ON WEEKENDS, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER. ARTERIAL ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS AS DESIGNATED ON THE CITY'S MASTER THOROUGHFARE PLAN, LATEST EDITION.
- ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROWBOARD 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.

TRAFFIC CONTROL AND PROTECTION NOTES (DOWNTOWN)

- PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN THE DOWNTOWN. IF A PEDESTRIAN DETOUR CANNOT BE ACCOMMODATED, THE CITY MAY REQUIRE THE CONTRACTOR TO PROVIDE A PROTECTED COVERED WALKWAY.
- ANY WORK IMPACTING THE PUBLIC RIGHT-OF-WAY SHALL NOT BE ALLOWED IN THE DOWNTOWN ON A FRIDAY, SATURDAY, SUNDAY, AND/OR HOLIDAY, UNLESS OTHERWISE PERMITTED BY THE CITY ENGINEER.
- ALL WORK IN THE DOWNTOWN SHALL BE COORDINATED WITH THE DOWNTOWN NAPERVILLE ALLIANCE (DNA) TO AVOID CONFLICT WITH SPECIAL EVENTS.
- UNLESS REQUIRED TO SUPPORT THE CURRENT WORK EFFORT, WORKERS PERSONAL VEHICLES MAY NOT BE PARKED ON-STREET. CONTRACTORS MAY REQUEST HANGTAGS FROM THE CITY TO ALLOW WORKERS TO PARK IN DESIGNATED AREAS WITHIN THE CITY PARKING DECKS.

REVISION RECORD

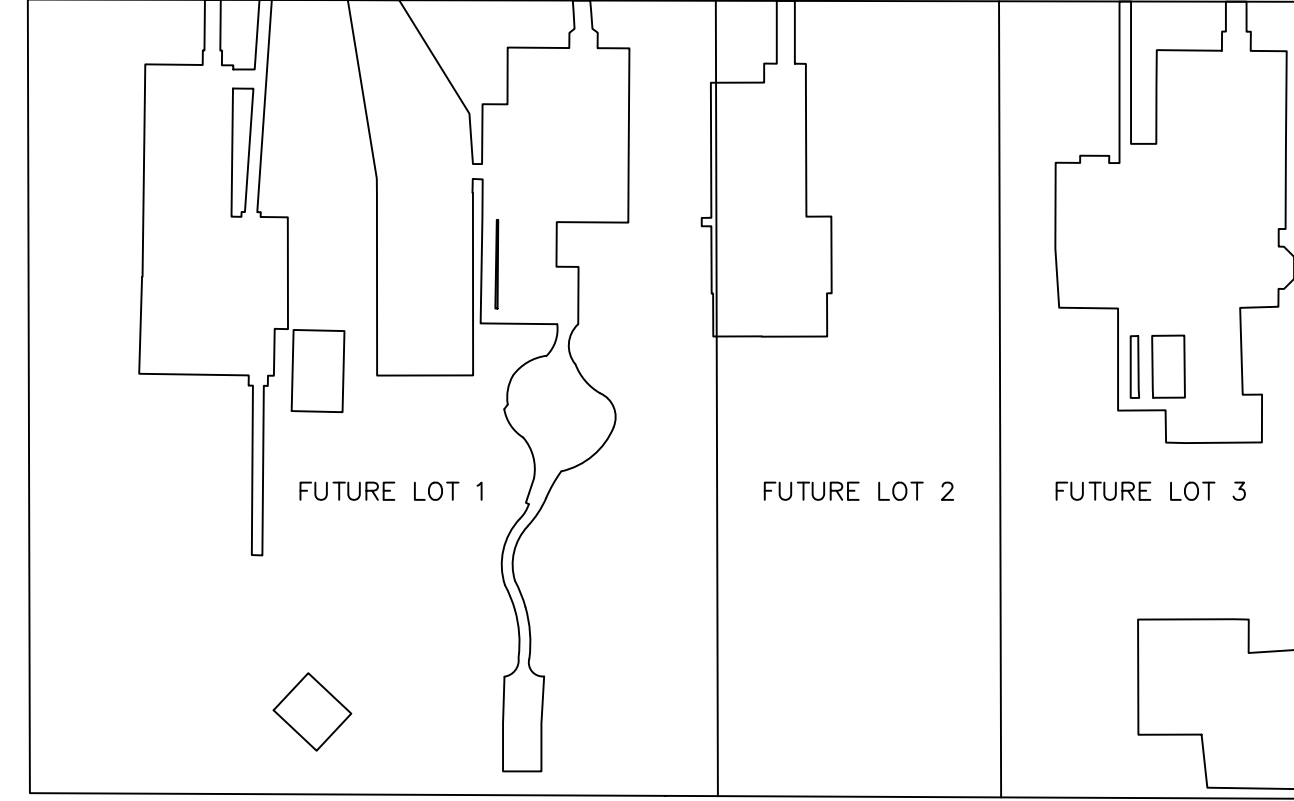
NO.	DATE	DESCRIPTION
1	04/10/2024	REVIEW PER CITY ENGINEER DATED 04/09/2024
2	04/10/2024	NO REVISION THIS SHEET

1230 East Diehl Road
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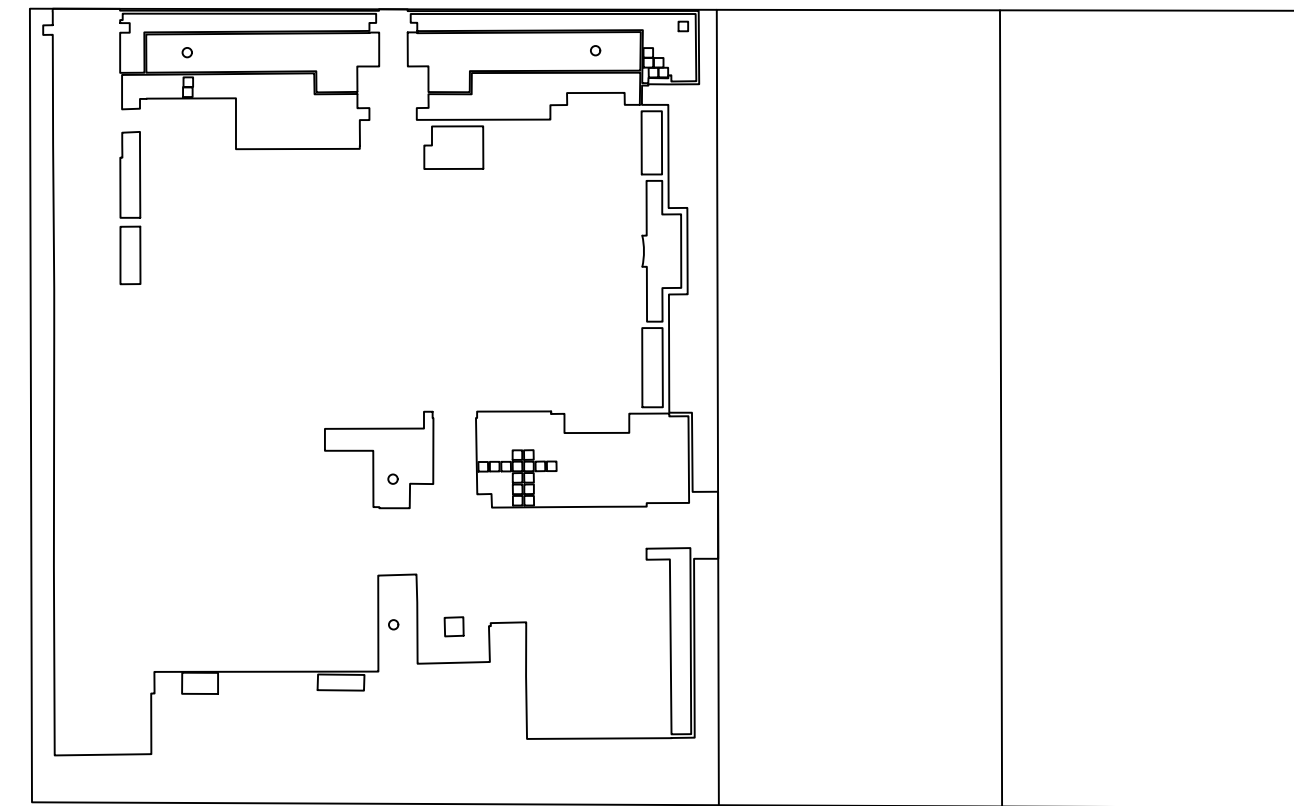


TRIFOX PROPERTIEZ, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

SITE SPECIFICATIONS - 3	
DATE:	DATE: APRIL 10, 2024
DWG SCALE:	SCALE: AS SHOWN
PROJECT NO.:	PROJECT NO. 341-027
APPROVED BY:	APPROVED BY: JGC



PRE-DEVELOPMENT PERVIOUS/IMPERVIOUS CONDITIONS
THE LAUREL SUBDIVISION (PHASE I)
1"=40'



AS-BUILT PERVIOUS/IMPERVIOUS CONDITIONS
THE LAUREL SUBDIVISION (PHASE I)
1"=40'

PERVIOUS/IMPERVIOUS CALCULATIONS:

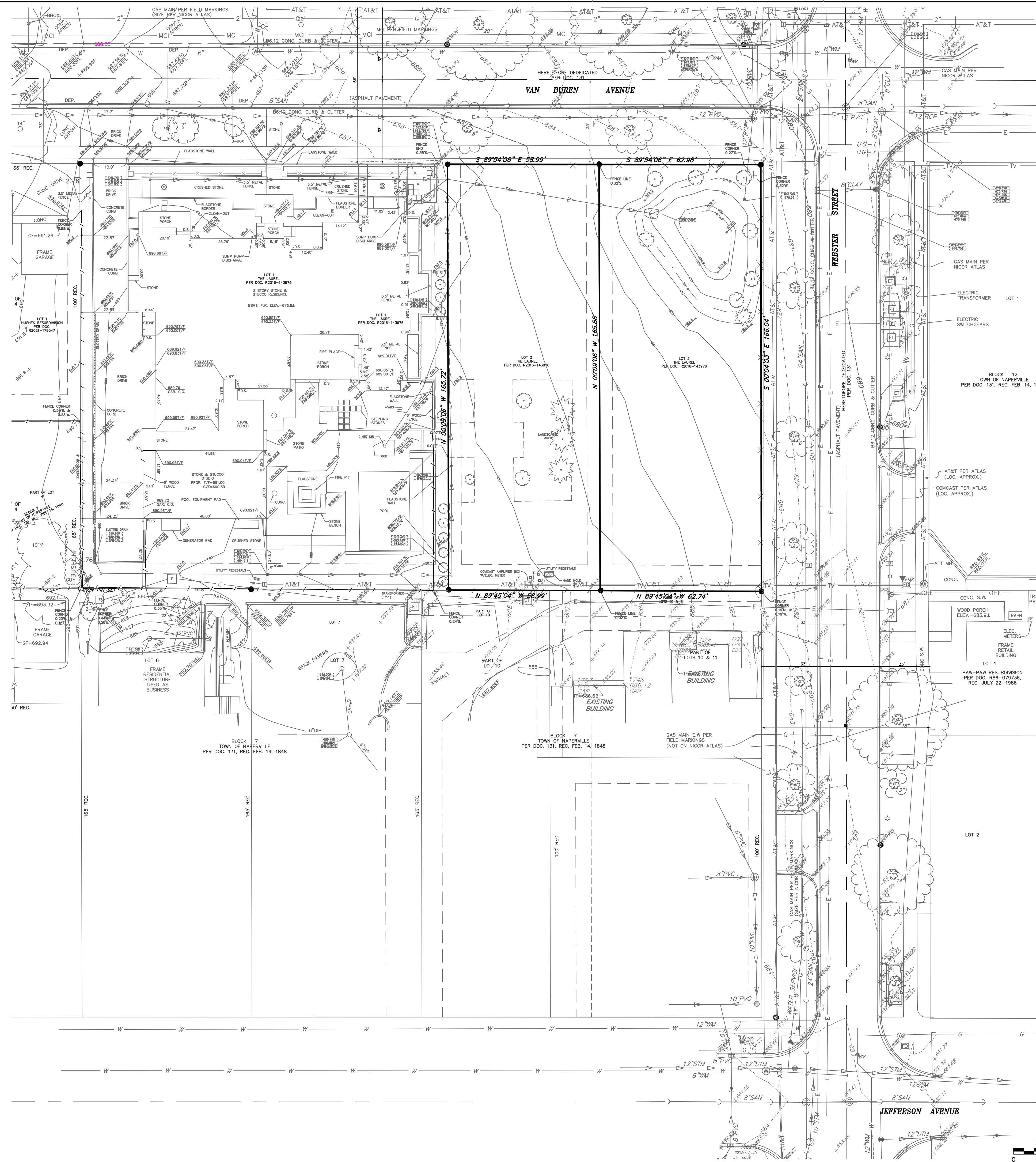
	IMPERVIOUS AREA	PERVIOUS AREA	LOT AREA
EXISTING	10,836 S.F.	33,066 S.F.	43,902 S.F.
AS-BUILT	14,959 S.F.	28,943 S.F.	43,902 S.F.
NET INCREASE	4,123 S.F.		

14,959 S.F. x 1.25 IN. x (1FT./12IN.) = 1,558 CU.FT. OF RUNOFF

AS-BUILT RAIN GARDEN:

(334 S.F. + 453 S.F.) x 0.5 x 0.2 FT. = 79 CU. FT.
(453 S.F. + 1,135 S.F.) x 0.5 x 1.0 FT. = 794 CU. FT.
(1,135 S.F. + 1,655 S.F.) x 0.5 x 0.6 FT. = 837 CU. FT.

TOTAL PROVIDED = 1,710 CU. FT.



- REFERENCE**
- EXISTING CONDITIONS ARE BASED UPON FIELD OBSERVATIONS MADE ON MARCH 4-5, 2024 BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
 - FIELD DATUM: US SURVEY FOOT, CITY OF NAPERVILLE DATUM NAVD 88.
 - UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON FIELD OBSERVATIONS, ATLAS MAPS PROVIDED BY THE CITY OF NAPERVILLE AND THOSE PUBLIC UTILITY COMPANIES OPERATING UNDER FRANCHISE OR CONTRACT WITH THE CITY OF NAPERVILLE.

REVISION RECORD

NO.	DATE	DESCRIPTION
1.	04/10/2024	REVISED PER CITY REVIEW DATED 03/08/2024
2.	04/10/2024	NO REVISION THIS SHEET

1230 East Diehl Road
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Naperville, IL 60563
Ph: 630.963.6026
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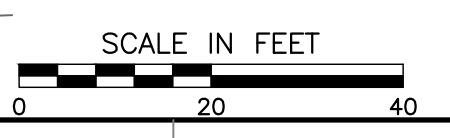


TRIFOX PROPERTIES, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

EXISTING CONDITIONS

DATE:	DRAWN BY:	MAJ	JGC
APRIL 10, 2024			
DWG SCALE:	PROJECT NO.:	1"=20'	341-027
APPROVED BY:	CHECKED BY:	JGC	JGC

DRAWING NO. **C100**
SHEET 5 OF 16



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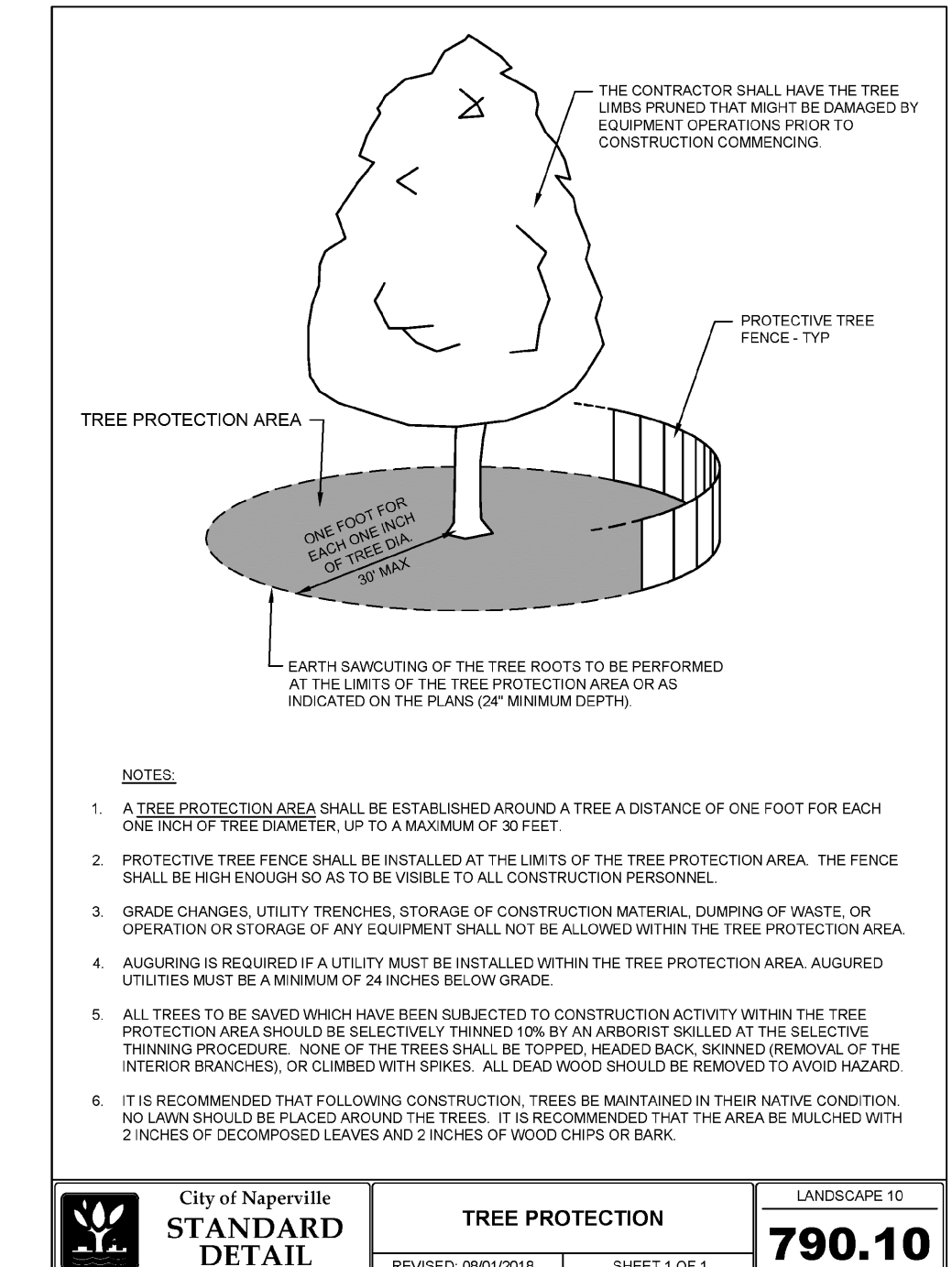
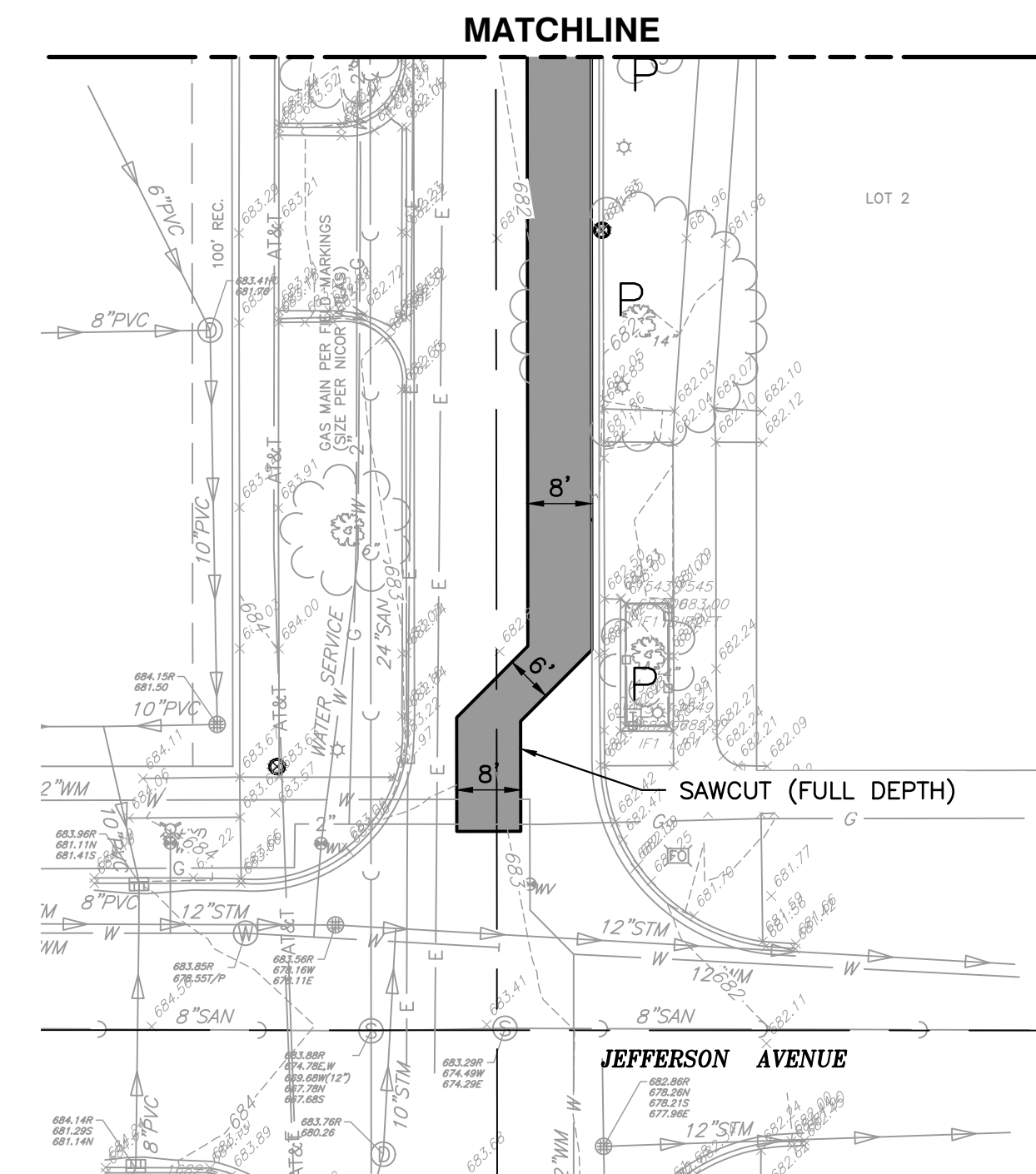
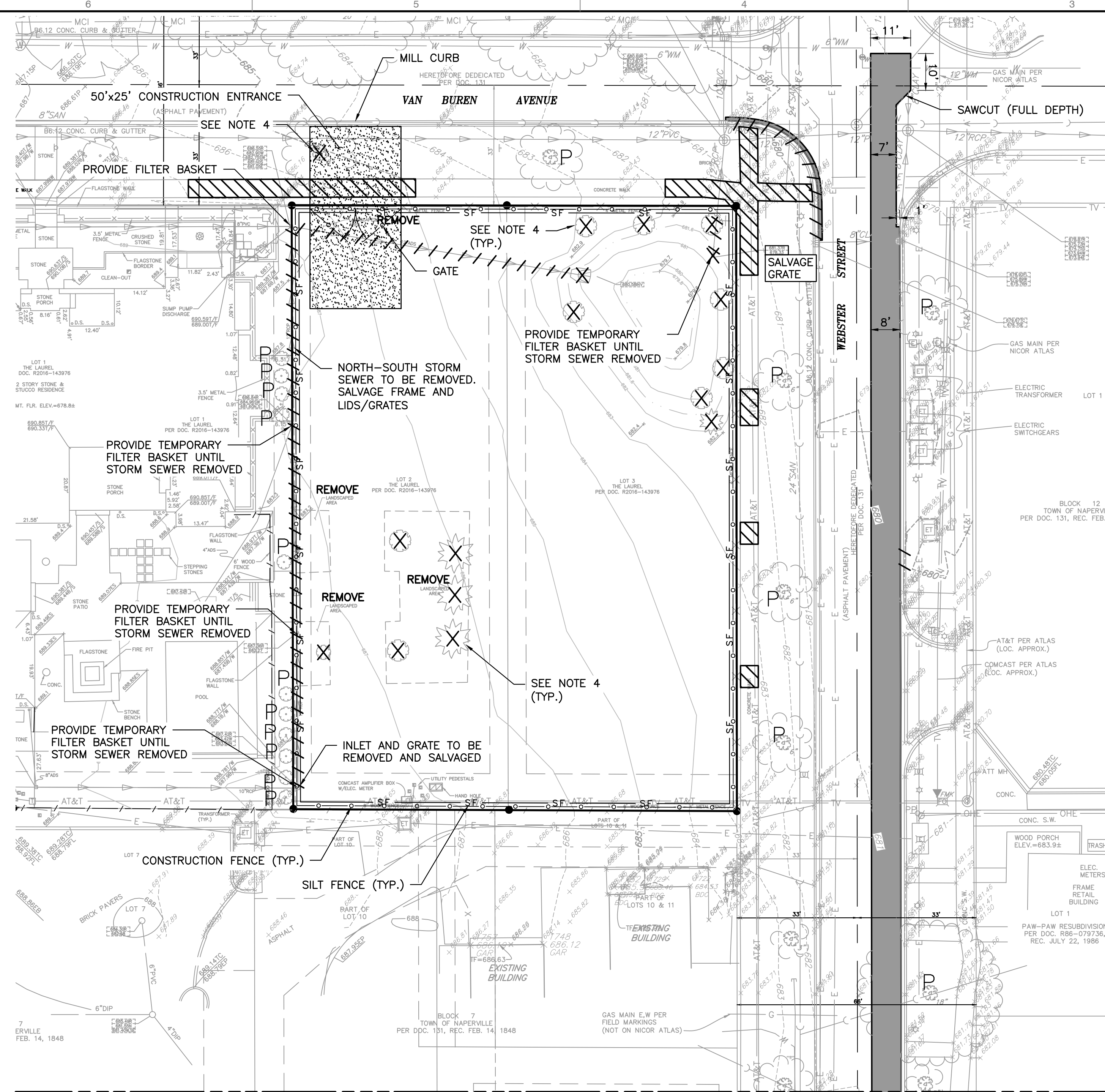
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DEMOLITION LEGEND

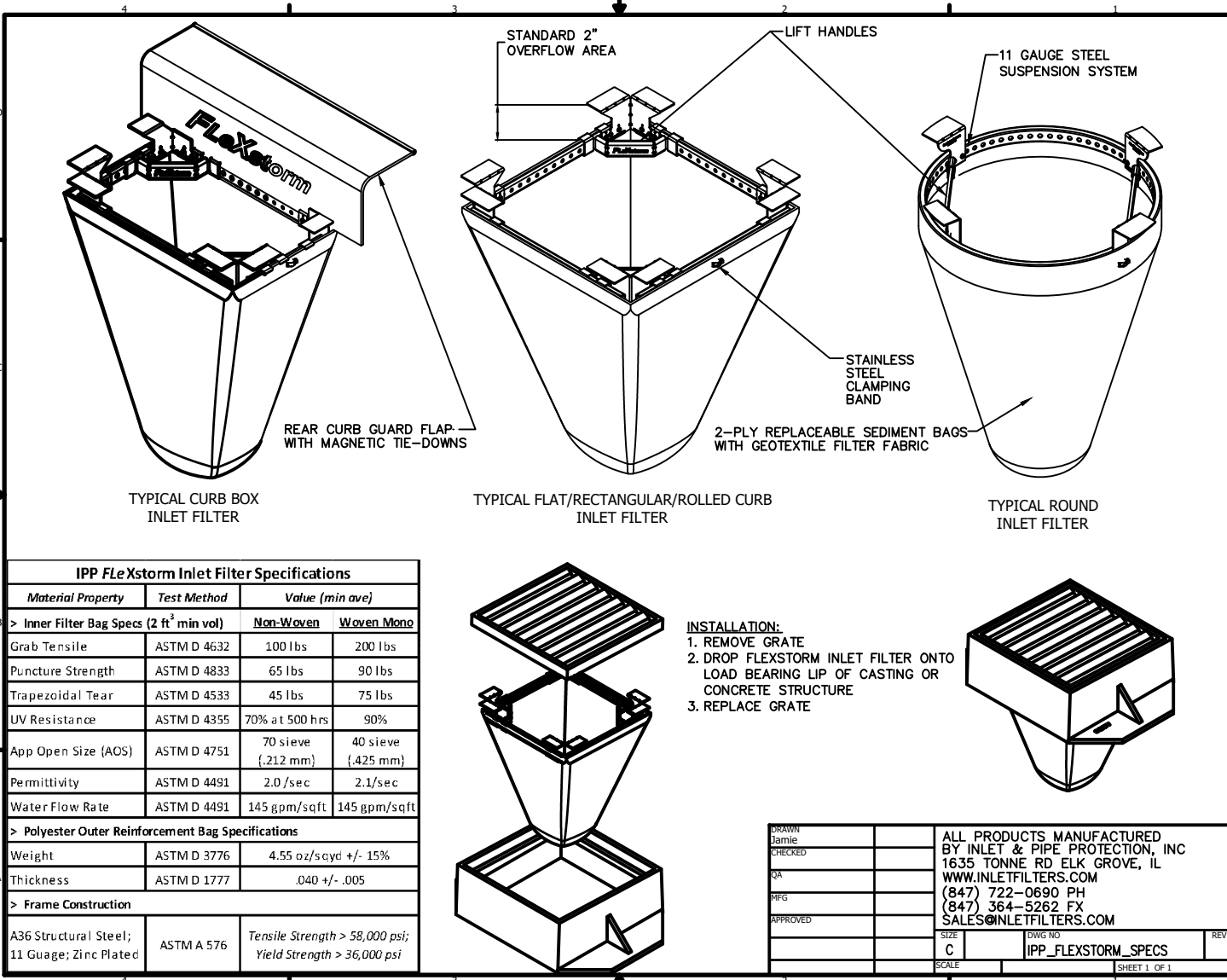
- BITUMINOUS PAVEMENT REMOVAL
- INDICATES CONCRETE ITEM, RETAINING/STONE WALL OR UTILITY SERVICE TO BE REMOVED
- INDICATES NON-CONCRETE ITEM, STRUCTURE, OR TREE TO BE REMOVED
- TREES TO BE PROTECTED WITH FENCING
- SILT FENCE
- CONSTRUCTION FENCE (CHAIN LINK)

DEMOLITION NOTES:

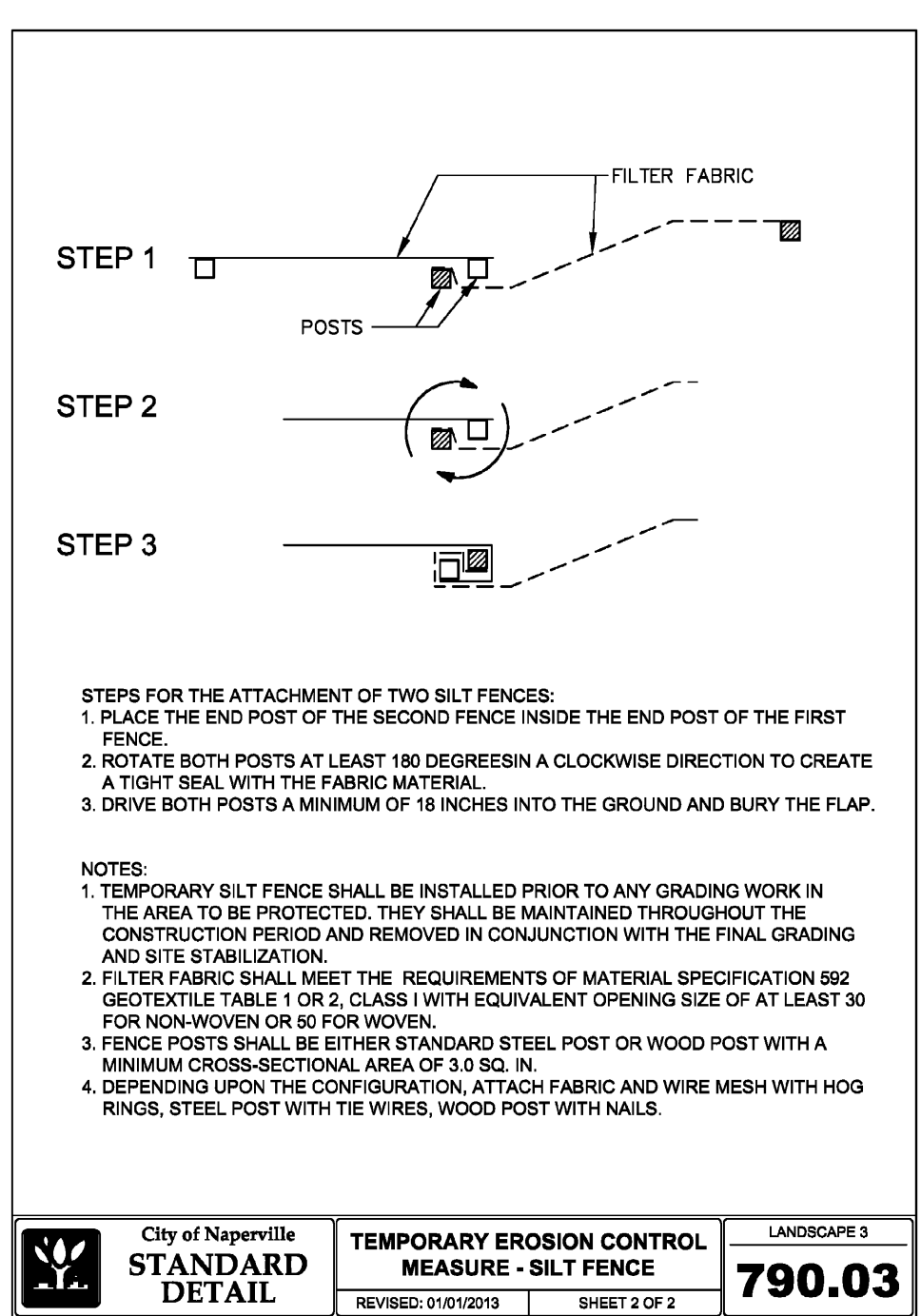
1. ALL PAVEMENTS, UTILITIES, TREES, ETC. WITHIN THE SUBJECT PROPERTY SHALL BE COMPLETELY REMOVED. REMOVAL ITEMS SHOWN OUTSIDE OF THE PROPERTY LIMITS ARE APPROXIMATE AND MAY NOT CONSTITUTE ALL WORK NECESSARY TO CONSTRUCT THE PROJECT. REMOVAL OF PUBLIC SIDEWALKS, ROADWAYS, DRIVEWAYS, CURB & GUTTER, PUBLIC UTILITIES, ETC., SHALL BE STAGED BY THE CONTRACTOR WITH CONCURRENCE FROM THE OWNER, ENGINEER, AND THE CITY OF NAPERVILLE STAFF.
2. TRENCHES, WITHIN PROPOSED PAVED OR BUILDING PAD AREAS, RESULTING FROM THE REMOVAL OF EXISTING UTILITIES SHALL BE BACKFILLED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ART. 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
3. ALL EXISTING PAVEMENT WITHIN THE CONSTRUCTION LIMITS, INCLUDING BITUMINOUS PAVEMENT, DRIVEWAYS, CONCRETE SLABS, AND SIDEWALKS SHALL BE COMPLETELY REMOVED. AGGREGATE MATERIALS APPROVED AS SUITABLE FILL BY THE SOILS ENGINEER SHALL BE SET ASIDE FOR FUTURE PLACEMENT.
4. ALL TREES AND LANDSCAPE MATERIALS WITHIN THE CONSTRUCTION LIMITS SHALL BE EVALUATED BY A PROFESSIONAL LANDSCAPE ARCHITECT TO DETERMINE WHETHER IT CAN BE USED AT ANOTHER LOCATION. IT IS SUGGESTED THAT THE EXISTING VAN BUREN PARKWAY TREE BE RELOCATED TO THE EAST OF THE PROPOSED DRIVEWAY. TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO FINALIZING HIS BID FOR TREE REMOVAL.
5. EXISTING UTILITY LOCATIONS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES THAT ARE INTENDED TO CONTINUE TO PROVIDE SERVICE WHETHER THESE UTILITIES ARE SHOWN ON THE PLANS OR NOT. THIS SHALL INCLUDE PRIVATE SERVICES AS WELL.
6. ALL DEBRIS FROM DEMOLITION SHALL BE HAULED OFF SITE AND DISPOSED OF BY LEGAL MEANS.
7. ALL WORK SHALL BE DONE IN GENERAL ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS CONTAINED IN THE MUNICIPAL "SOIL EROSION AND SEDIMENTATION CONTROL" ORDINANCE. THE CONTRACTOR SHALL INSTALL THE NECESSARY EROSION AND SEDIMENTATION CONTROL DEVICES THAT WILL PROTECT THE EXISTING STORM SEWERS, PUBLIC ROADWAYS, AND ADJACENT PROPERTIES FROM SEDIMENT THAT MAY ARISE FROM THE PROPOSED DEMOLITION AND/OR CONSTRUCTION. DEVICES SHALL INCLUDE SILT FENCE, FILTER BASKETS INSERTED INTO DRAINAGE STRUCTURES, CONSTRUCTION ENTRANCE, PAVEMENT CLEANING, ETC. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
8. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. CONCRETE TRUCKS SHALL NOT BE PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE. SPECIFIC AREAS FOR THIS ACTIVITY SHALL BE DESIGNATED BY THE CONTRACTOR AND PROVIDED WITH ADEQUATE SILTATION BASINS AND OTHER FACILITIES TO ASSURE THAT DISCHARGE IS CONTAINED AND CLEANSSED BEFORE ENTERING THE RECEIVING STORM SEWER SYSTEM.
9. ALL ADJACENT STREETS SHOULD BE KEPT CLEAR OF MUD/DEBRIS. THE CONTRACTOR SHALL INSPECT THE STREETS DAILY AND CLEAN THEM AS NECESSARY.
10. A TEMPORARY CHAINLINK CONSTRUCTION FENCE AND GATE ARE SHOWN AT THE PROPOSED CONSTRUCTION ENTRANCE. THE FENCE WILL BE REMOVED AND REPLACED AS REQUIRED TO ALLOW FOR UTILITY INSTALLATIONS, ROADWAY WORK, ETC. DURING WORKING HOURS BUT SHALL BE REINSTALLED AT THE END OF EACH DAY TO PROVIDE A SECURE CONSTRUCTION SITE.
11. THE EXISTING WROUGHT IRON FENCE LOCATED ALONG THE SITE'S NORTH AND EAST PROPERTY LINE SHALL BE CAREFULLY REMOVED AND SALVAGED.



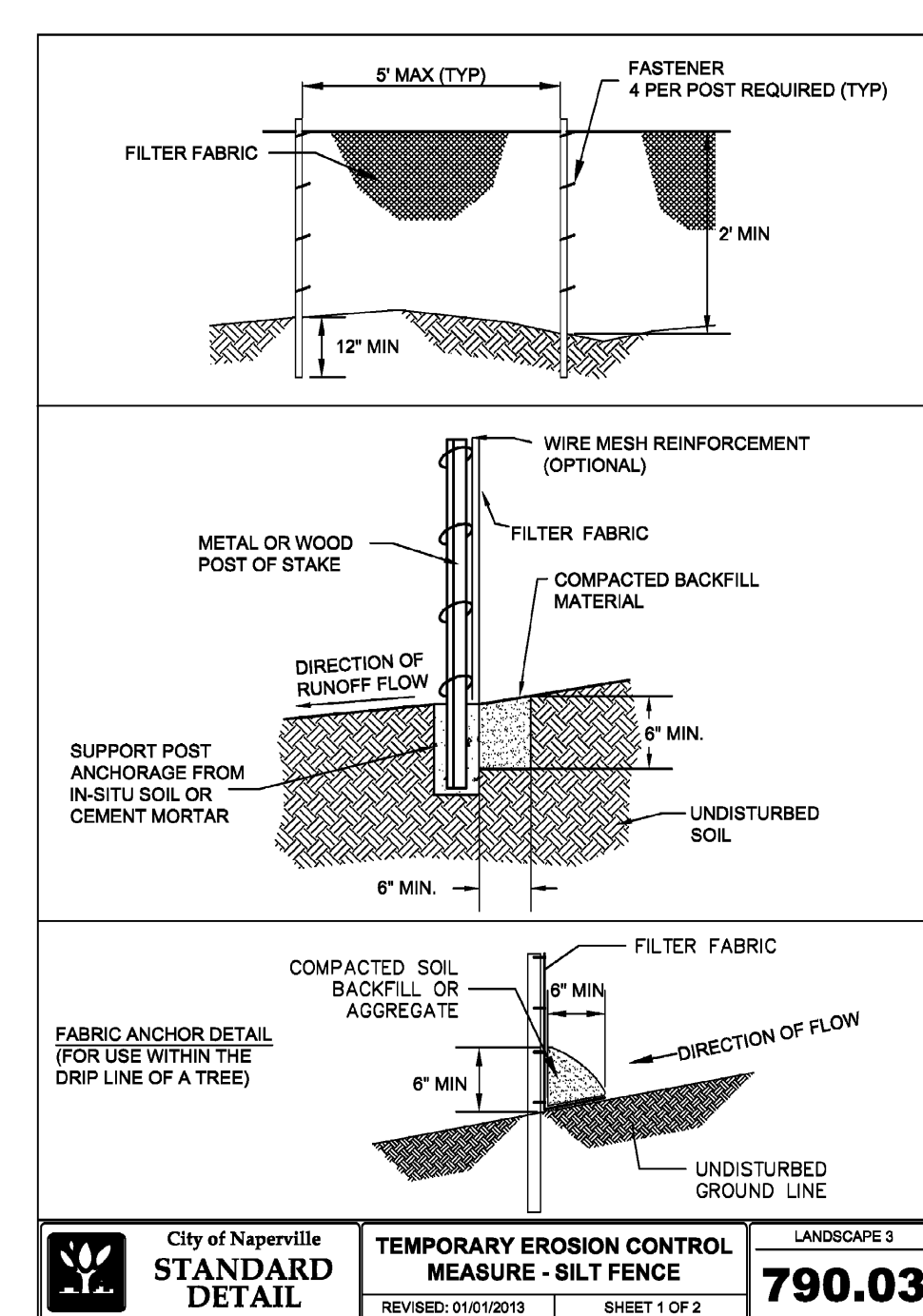
City of Naperville STANDARD DETAIL	TREE PROTECTION	LANDSCAPE 10
REVISION: 09/01/2018	SHEET 1 OF 1	790.10



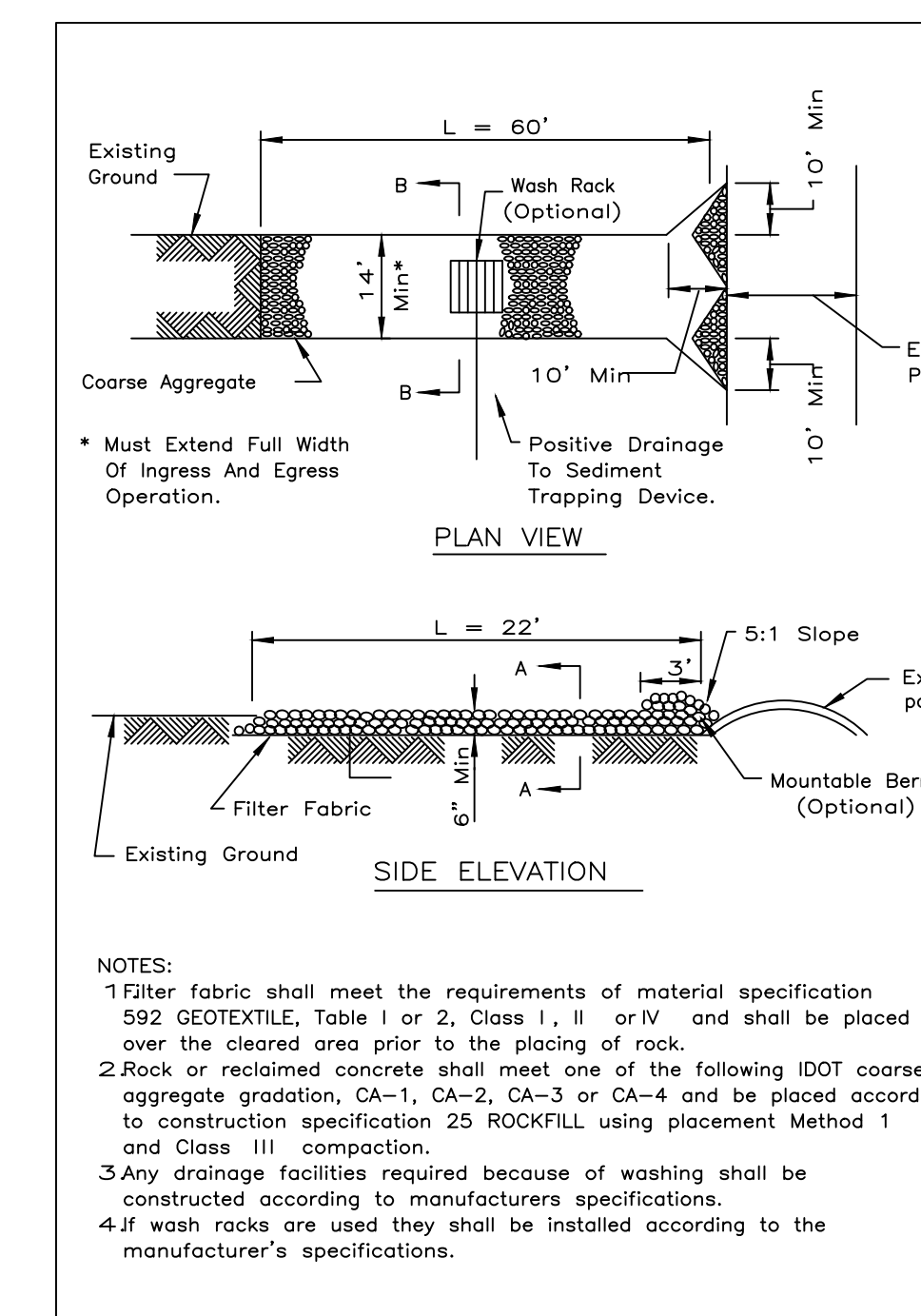
Material Property	Test Method	Value (min/ave)
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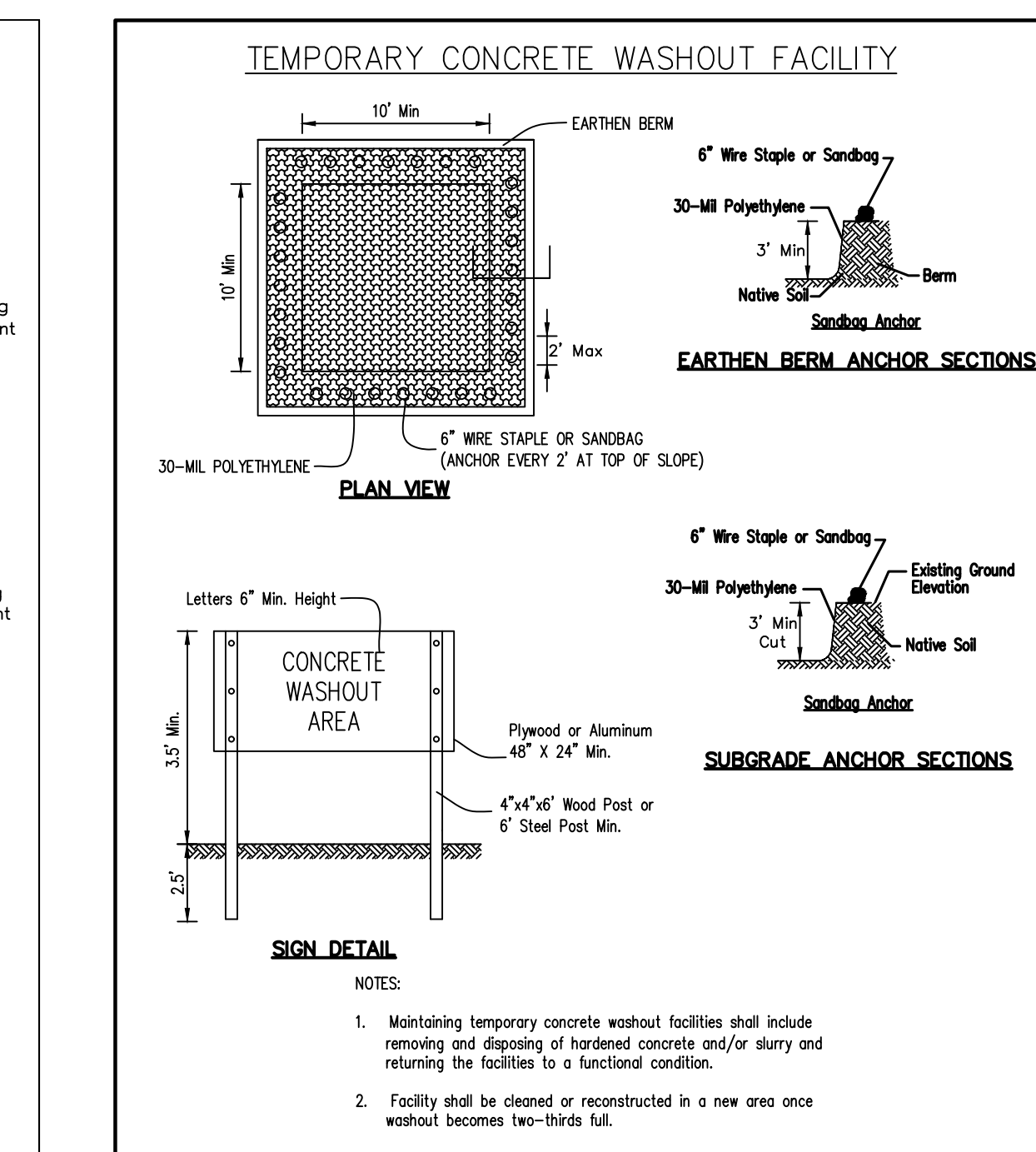
City of Naperville STANDARD DETAIL	TEMPORARY EROSION CONTROL MEASURE - SILT FENCE	LANDSCAPE 3
REVISION: 01/01/2013	SHEET 2 OF 2	790.03



City of Naperville STANDARD DETAIL	TEMPORARY EROSION CONTROL MEASURE - SILT FENCE	LANDSCAPE 3
REVISION: 01/01/2013	SHEET 1 OF 2	790.03



City of Naperville STANDARD DETAIL	TEMPORARY EROSION CONTROL MEASURE - SILT FENCE	LANDSCAPE 3
REVISION: 01/01/2013	SHEET 1 OF 2	790.03



City of Naperville STANDARD DETAIL	TEMPORARY EROSION CONTROL MEASURE - SILT FENCE	LANDSCAPE 3
REVISION: 01/01/2013	SHEET 1 OF 2	790.03

TRIFOX PROPERTIES, LLC LOTS 2 AND 3 THE LAUREL SUBDIVISION 204 AND 212 WEST VAN BUREN AVENUE NAPERVILLE, ILLINOIS 60540		DEMOLITION PLAN DATE: APRIL 10, 2024 DRAWN BY: MAJ DIMS SCALE: 1"=20' PROJECT NO: 341-027 CHECKED BY: JGC APPROVED BY: JGC
1230 East Diehl Road Suite 200 Naperville, IL 60563 Ph: 630.963.6026 www.cecinc.com		REVISION RECORD NO. DATE DESCRIPTION 1. 04/10/2024 NO REVISIONS THIS SHEET 2. 04/10/2024 NO REVISIONS THIS SHEET 3. 04/10/2024 NO REVISIONS THIS SHEET

C101

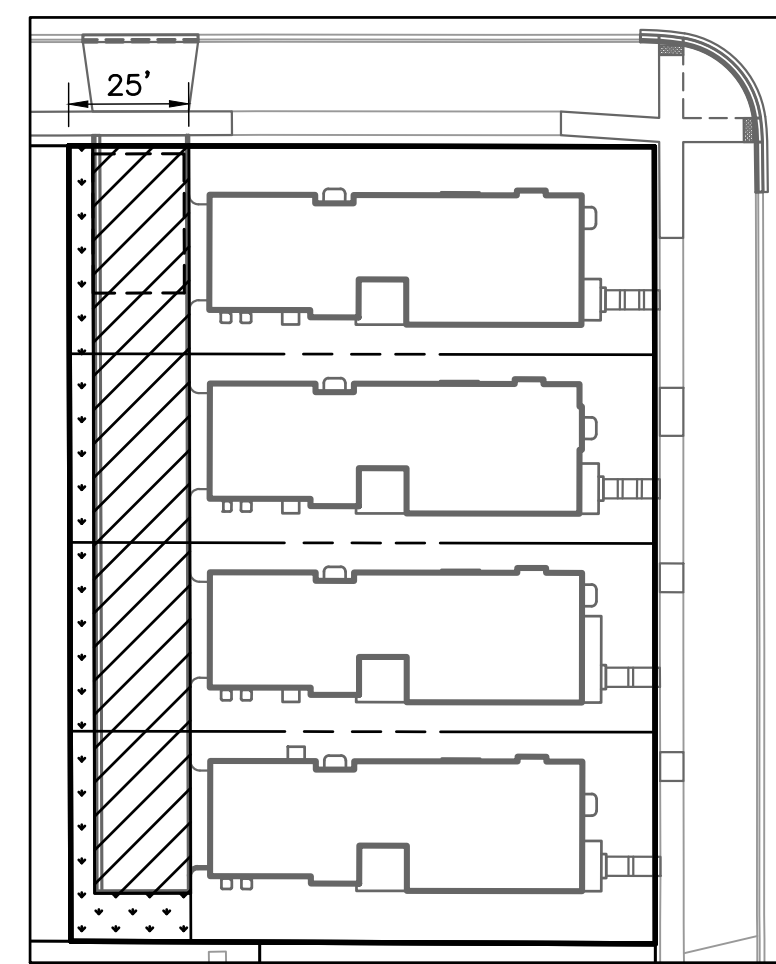


NOTES:

- ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
- THE PROPOSED CONCRETE DRIVEWAY APRON SHALL BE:
 - 8" PORTLAND CEMENT CONCRETE, CLASS PV
 - 4" COMPACTED CA-6 AGGREGATE BASE COURSE
- THE ASPHALT DRIVEWAY PAVEMENT SECTION FOR THE DEVELOPMENT SHALL BE:
 - 1 1/2" HOT MIX ASPHALT SURFACE COURSE, IL-9.5
 - 2 1/4" HOT MIX ASPHALT BINDER COURSE, IL-19.0
 - 10" AGGREGATE BASE COURSE TYPE B (CA-6)
- PUBLIC SIDEWALK CONSTRUCTION SHALL CONFORM TO CITY OF NAPERVILLE STANDARD DETAILS 590.15 DOWNTOWN STREETSCAPE TYPE-STANDARD CORNER, 590.30 SIDEWALK, 590.31 SIDEWALK CONSTRUCTION AND 590.32 CURB RAMPS. NOTE THAT THE STANDARD CORNER SHALL BE CONCRETE ONLY.
- PAVEMENT PATCHING FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE CITY OF NAPERVILLE STANDARD DETAIL FOR UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS) DETAIL 590.13 AND SECTION A-A WEBSTER STREET, SHEET C501.
- THE CONTRACTOR SHALL REVIEW THE PROPOSED GRADING PLAN AND TAKE NOTE WHERE PROPOSED CURB VARIES IN HEIGHT.
- FOR PROPOSED BUILDING DIMENSIONS, SEE ARCHITECTURAL PLANS.
- THE PROPOSED CANTILEVER, CHIMNEY AND COVERED PORCH SHALL BE COMPLIANT WITH MUNICIPAL CODE 6-2-3-3 "PERMITTED OBSTRUCTIONS IN REQUIRED YARDS".

SITE DATA

- GROSS AREA = 20,213 SQUARE FEET (0.464 ACRES)
 NET AREA = 20,213 SQUARE FEET (0.464 ACRES)
 NO. OF LOTS = 4
 CURRENT ZONING = TU (SINGLE-FAMILY, TRANSITIONAL USE DISTRICT)
 PROPOSED ZONING = TU (SINGLE-FAMILY, TRANSITIONAL USE DISTRICT)
- EXISTING SETBACKS:
 FRONT YARD (WEBSTER ST.) = 15.00 FEET
 CORNER SIDE YARD (VAN BUREN AVE.) = 10.00 FEET
 INTERIOR SIDE YARD = 6.00 FEET
 REAR YARD = 25.00 FEET
- BUILDING AREA: = 7,643 SQUARE FEET
 NUMBER OF RESIDENTIAL UNITS: = 4
 DENSITY (4 UNITS/0.464 AC.) = 8.62 UNITS/ACRE

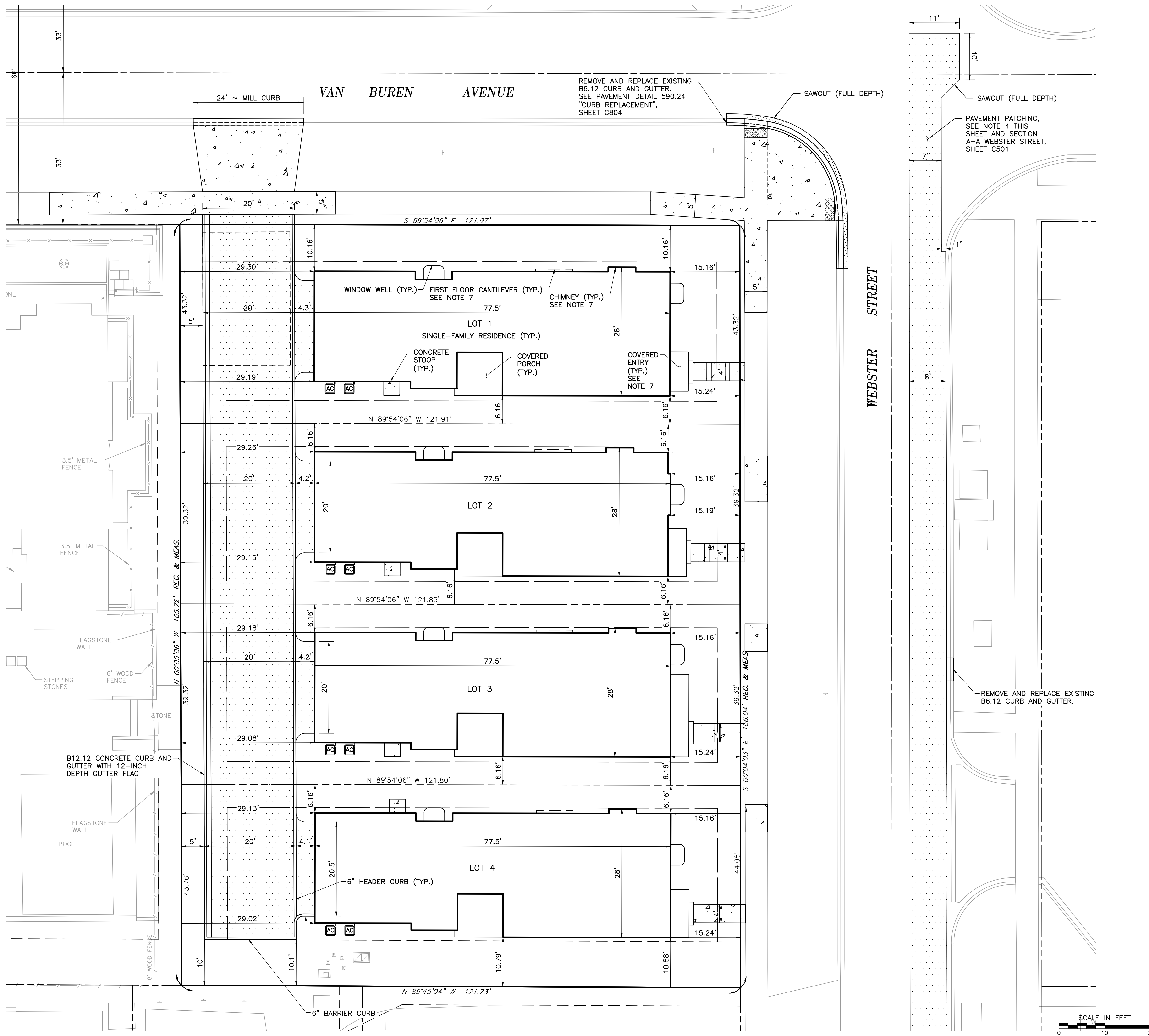


REAR YARD EXHIBIT
1"=40'

- REQUIRED 25' REAR YARD = 4,144 S.F.
- IMPROVEMENTS CONSTRUCTED IN THE REAR YARD (DRIVEWAY) = 3,114 S.F.
 - REAR YARD AREA MINUS IMPROVEMENT AREA 4,144 - 3,114 = 1,030 S.F.
- REAR YARD LOT COVERAGE = 75% (3,114/4,144)

REFERENCE

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NO.	DATE	DESCRIPTION
1.	04/10/2024	REVISED PER CITY REVIEW, DATED 06/06/2024
2.	04/08/2024	REVISED PER CITY REVIEW, DATED 06/06/2024

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Civil & Environmental Consultants, Inc.

TRIFOX PROPERTIES, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

DATE	DRAWN BY	JGC
APRIL 10, 2024	MAJ	JGC
DWG SCALE	1"=10'	341-027
PROJECT NO.		JGC
APPROVED BY:		

DRAWING NO.: **C200**



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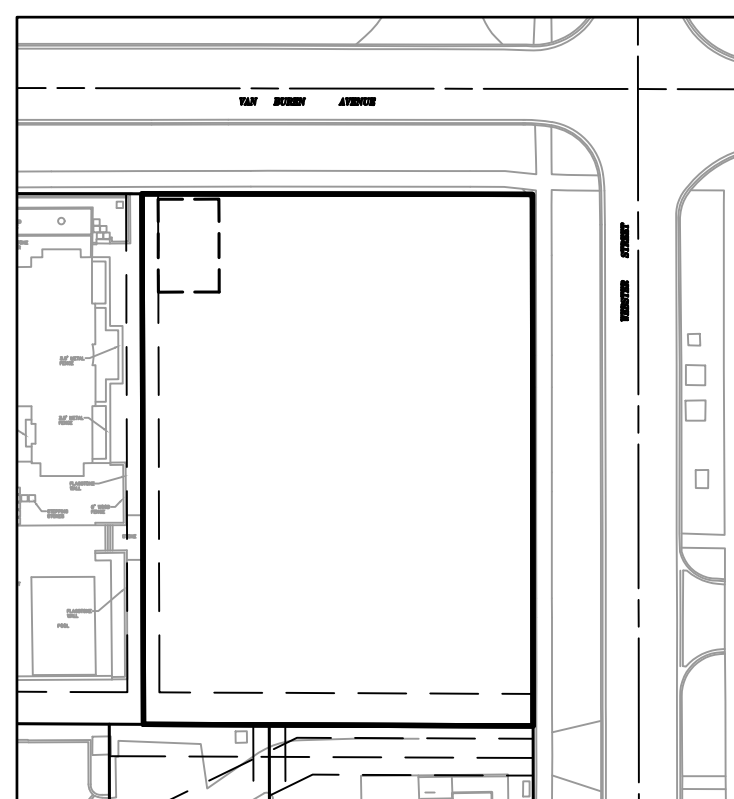


GRADING AND SWPPP NOTES:

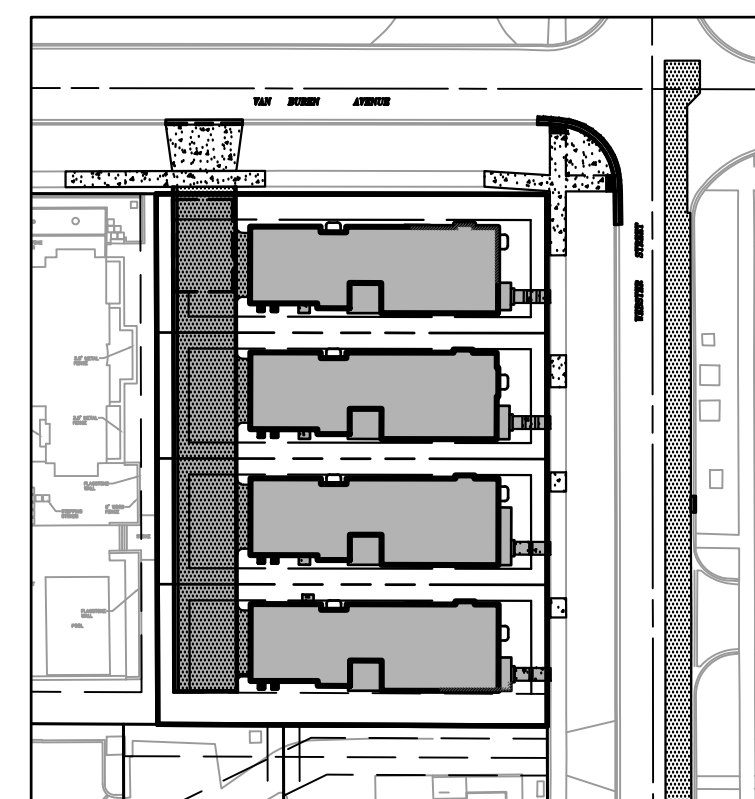
- ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATION IN THE ILLINOIS URBAN MANUAL, LATEST EDITION.
- ALL GRADES DEPICTED ARE FINISHED GRADES. IN NON-PAVED AREAS, THE CONTRACTOR SHALL SUBTRACT 6 INCHES (0.5 FEET) TO ALLOW FOR TOPSOIL/MULCH MATERIAL PLACEMENT.
- THE CONTRACTOR SHALL PROVIDE INLET FILTER BASKETS IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS FOR ALL OPEN LID STRUCTURES TO MINIMIZE INTRUSION OF DEBRIS/SILT INTO THE STORM SEWER SYSTEM.
- THE ESTIMATED CONSTRUCTION SCHEDULE IS AS FOLLOWS:

GRADING	FALL	2024
PAVING	FALL	2025
GROUND STABILIZATION/SODDING	FALL	2025
LANDSCAPING	FALL	2025

LANDSCAPE MATERIALS SHALL BE INSTALLED AS SOON AS POSSIBLE TO STABILIZE SITE.
- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAINFALL EVENT OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE CITY OF NAPERVILLE.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. CONCRETE TRUCKS SHALL NOT BE PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE. SPECIFIC AREAS FOR THIS ACTIVITY SHALL BE DESIGNATED BY THE CONTRACTOR AND PROVIDED WITH ADEQUATE SILTATION BASINS AND OTHER FACILITIES TO ASSURE THAT DISCHARGE IS CONTAINED AND CLEANSSED BEFORE ENTERING THE RECEIVING STORM SEWER SYSTEM.
- ALL ADJACENT STREETS SHOULD BE KEPT CLEAR OF MUD/DEBRIS. THE CONTRACTOR SHALL INSPECT THE STREETS DAILY AND CLEAN THEM AS NECESSARY.
- STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCK PILES, NOT BEING ACTIVELY WORKED AND TO REMAIN IN PLACE 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING, STRAW MULCH WITH NETTING OR EROSION CONTROL BLANKET SHALL BE USED ON SIDE SLOPES.
- THE CONTRACTOR SHALL REVIEW THE PROPOSED GRADING PLAN AND TAKE NOTE WHERE PROPOSED CURB VARIES IN HEIGHT.



EXISTING PERVIOUS/IMPERVIOUS CONDITIONS
LOTS 2 AND 3 THE LAUREL SUBDIVISION
1"=60'



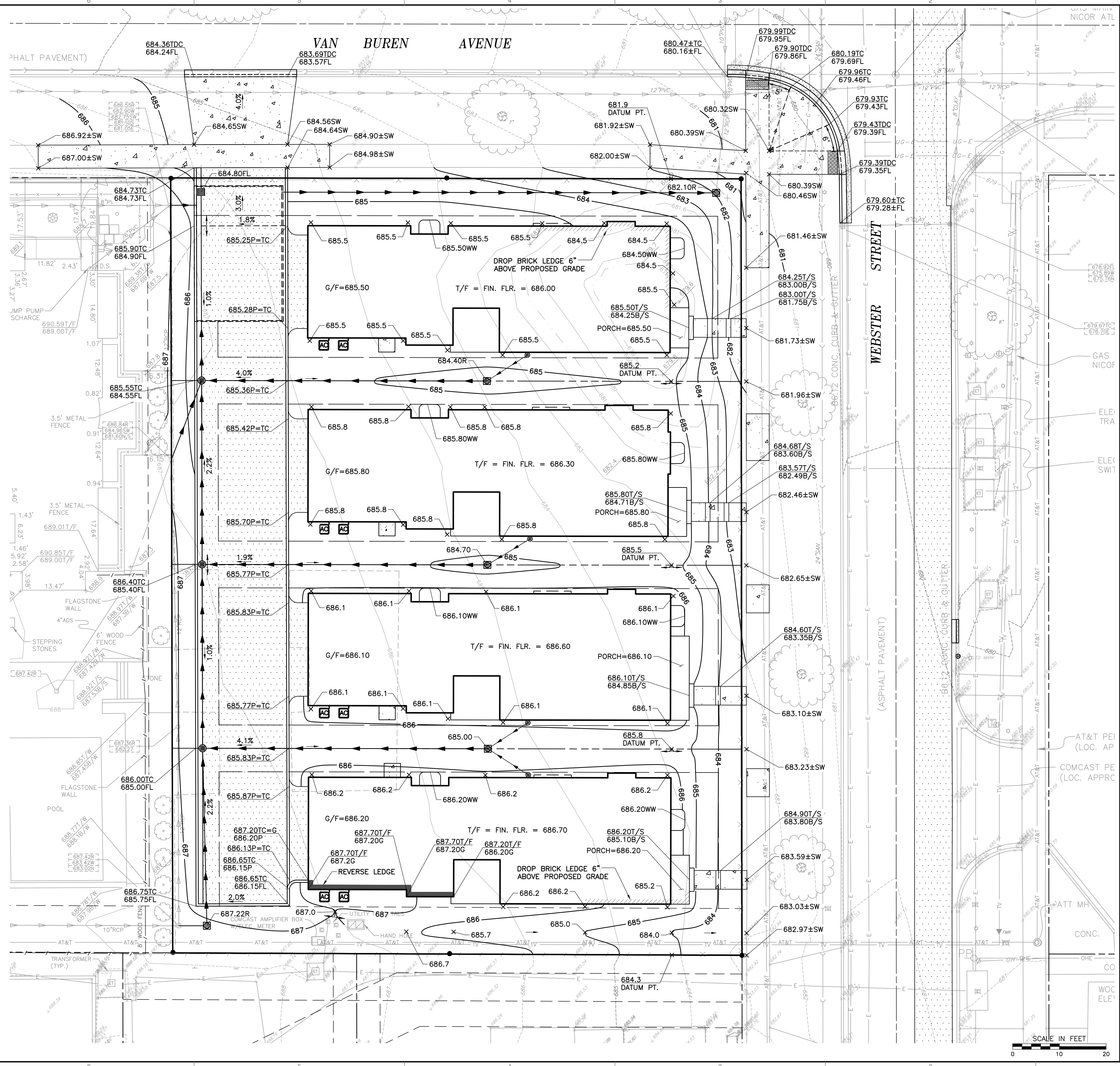
PROPOSED PERVIOUS/IMPERVIOUS CONDITIONS
LOTS 2 AND 3 THE LAUREL SUBDIVISION
1"=60'

PERVIOUS/IMPERVIOUS CALCULATIONS			
	IMPERVIOUS AREA	PERVIOUS AREA	PROJECT AREA
EXISTING (LOTS 2,3)	0 S.F.	20,213 S.F.	20,213 S.F.
AS-BUILT (LOT 1)	14,959 S.F.	8,730 S.F.	
PROPOSED (LOTS 2,3)	11,947 S.F.	8,266 S.F.	
TOTAL IMPERVIOUS	26,906 S.F.		

26,906 S.F. x 1.25 in. x (1FT./12IN.)= 2,803 CU.FT. OF RUNOFF
SEE DRAWING NO. C500 FOR PCMP STORAGE VOLUME PROVIDED.

AS SHOWN ON DRAWING NO. C100 - EXISTING CONDITIONS, THE PRE-DEVELOPMENT IMPERVIOUS AREA OF THE LAUREL SUBDIVISION (PHASE I) IS 10,836 S.F. THE AS-BUILT IMPERVIOUS AREA OF LOT 1 LAUREL SUBDIVISION IS 14,959 S.F. THE PROPOSED IMPERVIOUS AREA OF LOTS 2 AND 3 THE LAUREL SUBDIVISION IS 11,947 S.F. SINCE THE TOTAL IMPERVIOUS AREA OF 26,906 S.F. (11,947+14,959) IS LESS THAN THE ALLOWABLE IMPERVIOUS AREA OF 35,835 S.F. (10,836+24,999), FORMALIZED DETENTION IS NOT REQUIRED.

- REFERENCE**
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2	04/10/2024
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TRIFOX PROPERTIES, LLC
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NAPERVILLE, ILLINOIS 60540

GRADING PLAN

DATE: APRIL 10, 2024
DRAWN BY: JGC
PROJECT NO: 341-027
APPROVED BY: JGC

DRAWING NO: **C300**

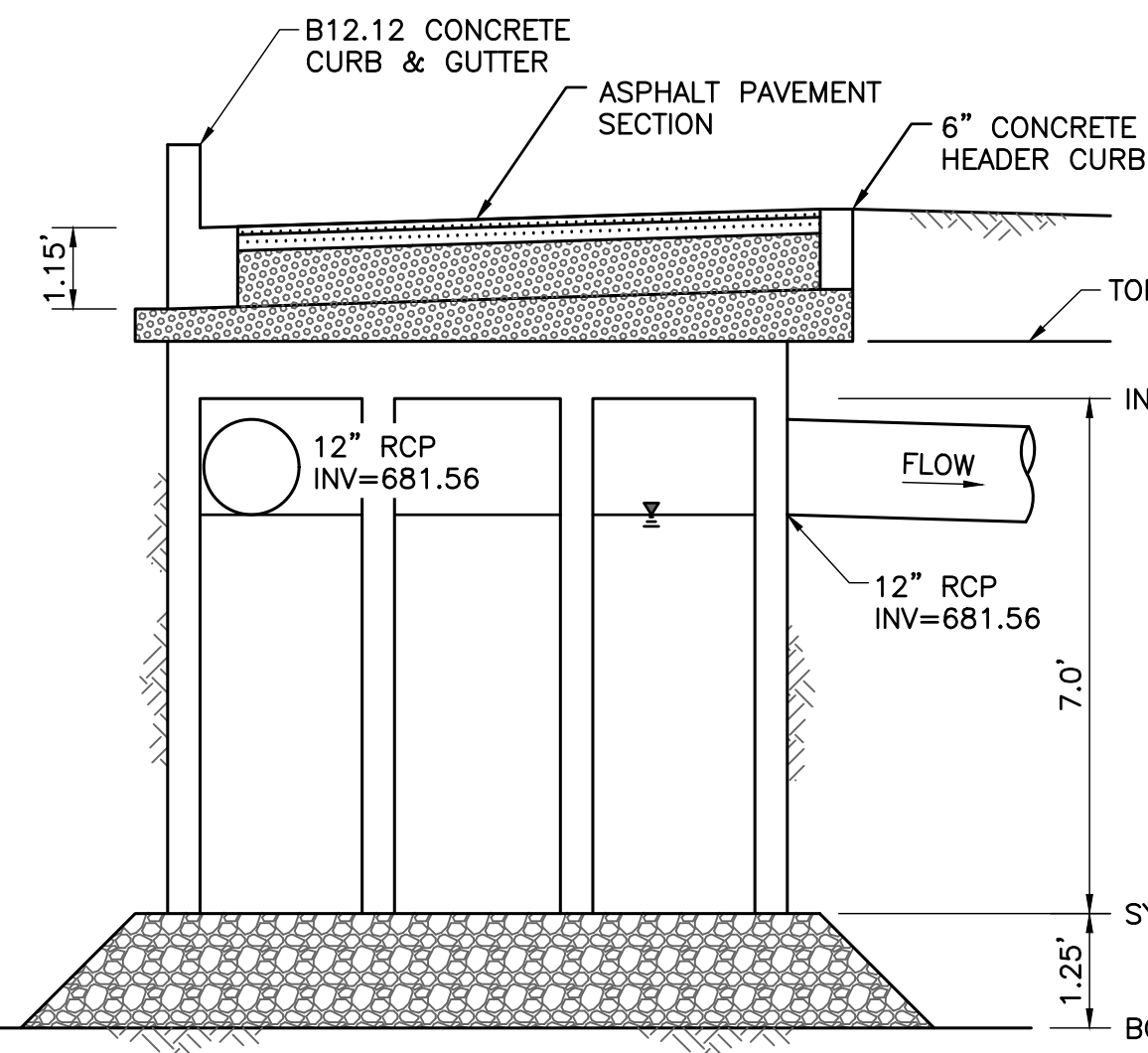
SCALE IN FEET
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SHEET 8 OF 16



UTILITY PLAN NOTES:

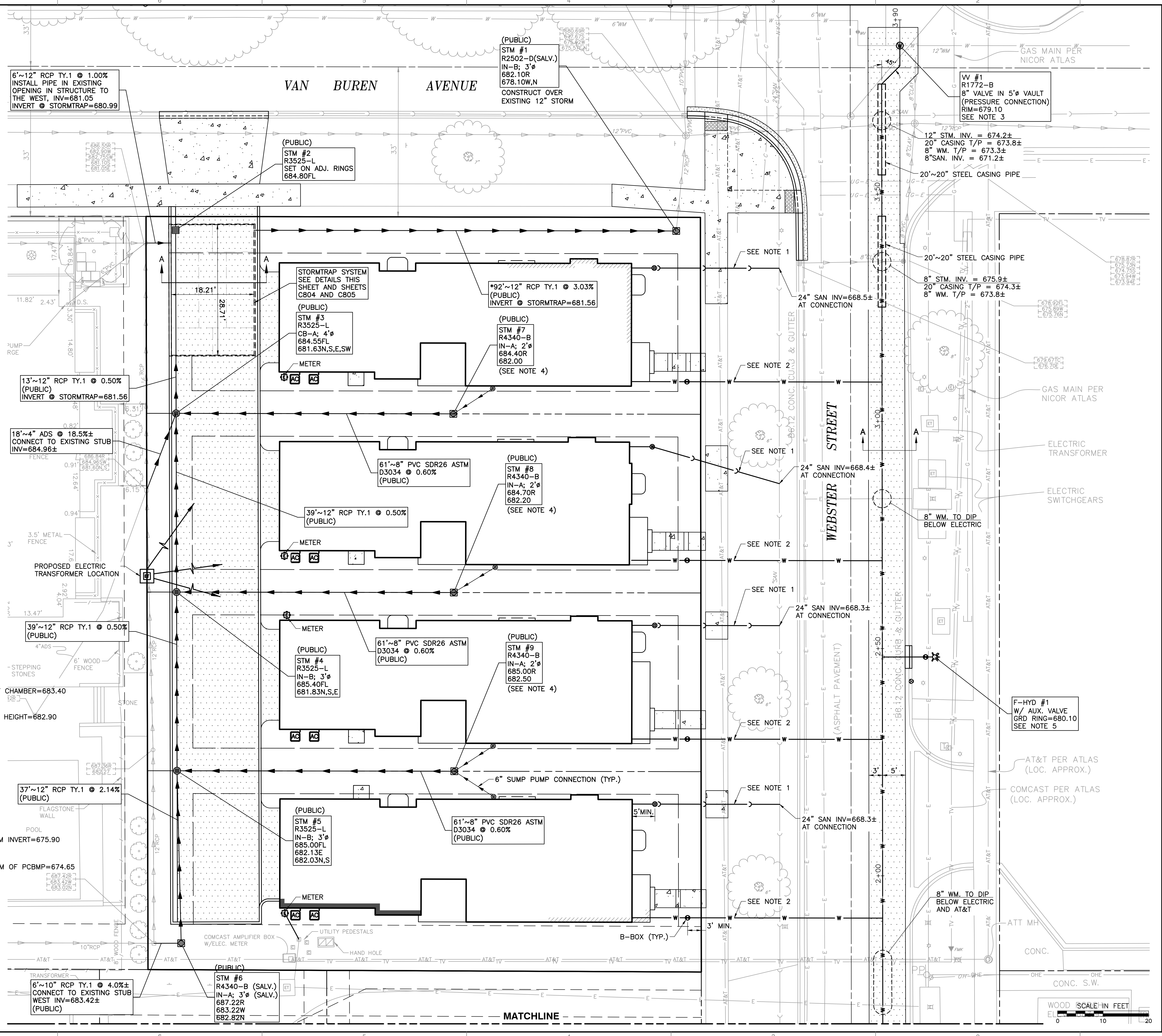
1. THE PROPOSED SANITARY SERVICES SHALL BE 6" PVC SDR 26 @ 1.00% MINIMUM WITH CLEANOUTS 5' EAST OF THE EAST FACE OF BUILDING. THE SERVICE SHALL CROSS BENEATH THE EXISTING AT&T DUCT BANK AND RISER INTO THE EXISTING 24-INCH SANITARY SEWER. ALL RESIDENCES SHALL HAVE OVERHEAD SEWERS.
2. THE PROPOSED WATER SERVICES SHALL BE 1-1/2" TYPE "K" COPPER PUSHED FROM THE B-BOX EAST TO THE PROPOSED 8-INCH WATERMAIN. THE CONTRACTOR SHALL NOTE THE DEPTH OF THE EXISTING AT&T DUCT BANK WHEN INSTALLING THE SANITARY SERVICES TO FACILITATE WATER SERVICE INSTALLATION.
3. THE PROPOSED 8-INCH VALVES SHALL BE PRESSURE CONNECTED TO EXISTING 12-INCH WATERMANS. THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED VALVE LOCATIONS ARE ACCURATE.
4. WHERE SUMP PUMP CONNECTIONS ARE TO CONNECT TO PROPOSED DRAINAGE STRUCTURES, A 6" PVC SDR26 STUB SHALL BE CAST INTO THE STRUCTURE AT A MINIMUM DEPTH OF 2.4 FEET (RIM-INVERT). PROVIDE WATERTIGHT PLUG ON STUB.
5. THE FINAL LOCATION OF THE PROPOSED FIRE HYDRANT SHALL BE DETERMINED ONCE EXISTING UTILITIES HAVE BEEN LOCATED IN THE FIELD.
6. ALL PROPOSED UTILITY CROSSINGS WITH EXISTING UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
7. "*" INDICATES STORM SEWER TO BE CONSTRUCTED WITH PREFORMED FLEXIBLE RUBBER GASKETS. JOINTS SHALL CONFORM TO THE SPECIFICATIONS OUTLINED IN ASTM C-361 OR C443.
8. ALL PROPOSED DUCTILE IRON UTILITIES, INCLUDING FITTINGS, SHALL BE POLYWRAPPED.
9. ALL BENDS SHALL BE PROVIDED WITH "MEGA-LUG" TYPE FLANGES AND SHALL HAVE PROPER BLOCKAGE.
10. THE CONTRACTOR SHALL PROVIDE INLET FILTER BASKETS BENEATH ALL OPEN LID STRUCTURES TO MINIMIZE INTRUSION OF DEBRIS/SILT INTO THE STORM SEWER SYSTEM.
11. UPON COMPLETION OF THE UTILITY INSTALLATIONS, THE PUBLIC RIGHT OF WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO 6" INCH TOPSOIL PLACEMENT, SOD AND SIDEWALK INSTALLATION.
12. THE CONTRACTOR SHALL REVIEW ALL EXISTING UTILITY REMOVALS/PROPOSED UTILITY INSTALLATIONS (INCLUDING DRY UTILITIES) WHICH MAY REQUIRE PAVEMENT REMOVAL, TEMPORARY PATCHING AND TRENCH BACKFILL.
13. FOR THE WEBSTER STREET 8-INCH WATERMAIN PROFILE, SEE SHEET C502.
14. OFFSETS FOR ALL STRUCTURES LOCATED IN THE CURBLINE ARE TO THE BACK OF CURB, OFFSETS FOR ALL OTHER STRUCTURES ARE TO THE CENTER OF STRUCTURE.



STORMTRAP SYSTEM FOR POST CONSTRUCTION BEST MANAGEMENT PRACTICES (PCBMP) SECTION A-A N.T.S.

PCBMP VOLUME CALCULATIONS:

- TOTAL PCBMP STORAGE REQUIRED = 2,803 CUBIC FEET.
- PCBMP STORAGE PROVIDED = 2,806 CUBIC FEET. (ELEV 681.56 - ELEV 675.90, 100% IN SYSTEM)
- PCBMP STORAGE PROVIDED = 326 CUBIC FEET. 1.25' x 33' x 22' x 0.36' (VOID)
- TOTAL PCBMP STORAGE PROVIDED = 3,129 CUBIC FEET.



NO.	DATE	DESCRIPTION
1	04/10/2024	REVISED PER CITY REVIEW DATED 04/09/2024
2	04/09/2024	REVISED PER CITY REVIEW DATED 04/09/2024

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TRIFOX PROPERTIES, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

UTILITY PLAN - 1	
DATE:	APRIL 10, 2024
DRAWN BY:	IMAJ
PROJECT NO.:	1"=10'
CHECKED BY:	JGCC
APPROVED BY:	341-027

DRAWING NO. **C500**
SHEET 9 OF 16



MATCHLINE

8" WM ASSUMED TO CROSS OVER SANITARY WITH A MINIMUM 5' OF COVER AND 1.5' OF VERTICAL SEPARATION

N, E, W PER MARKINGS NICOR ATLAS

GAS MAIN PER FIELD MARKINGS (SIZE PER NICOR ATLAS)

W #2 R1772-B 8" VALVE IN 5' Ø VAULT (PRESSURE CONNECTION) RIM=683.05 SEE NOTE 3

684.15R 681.50 10" PVC

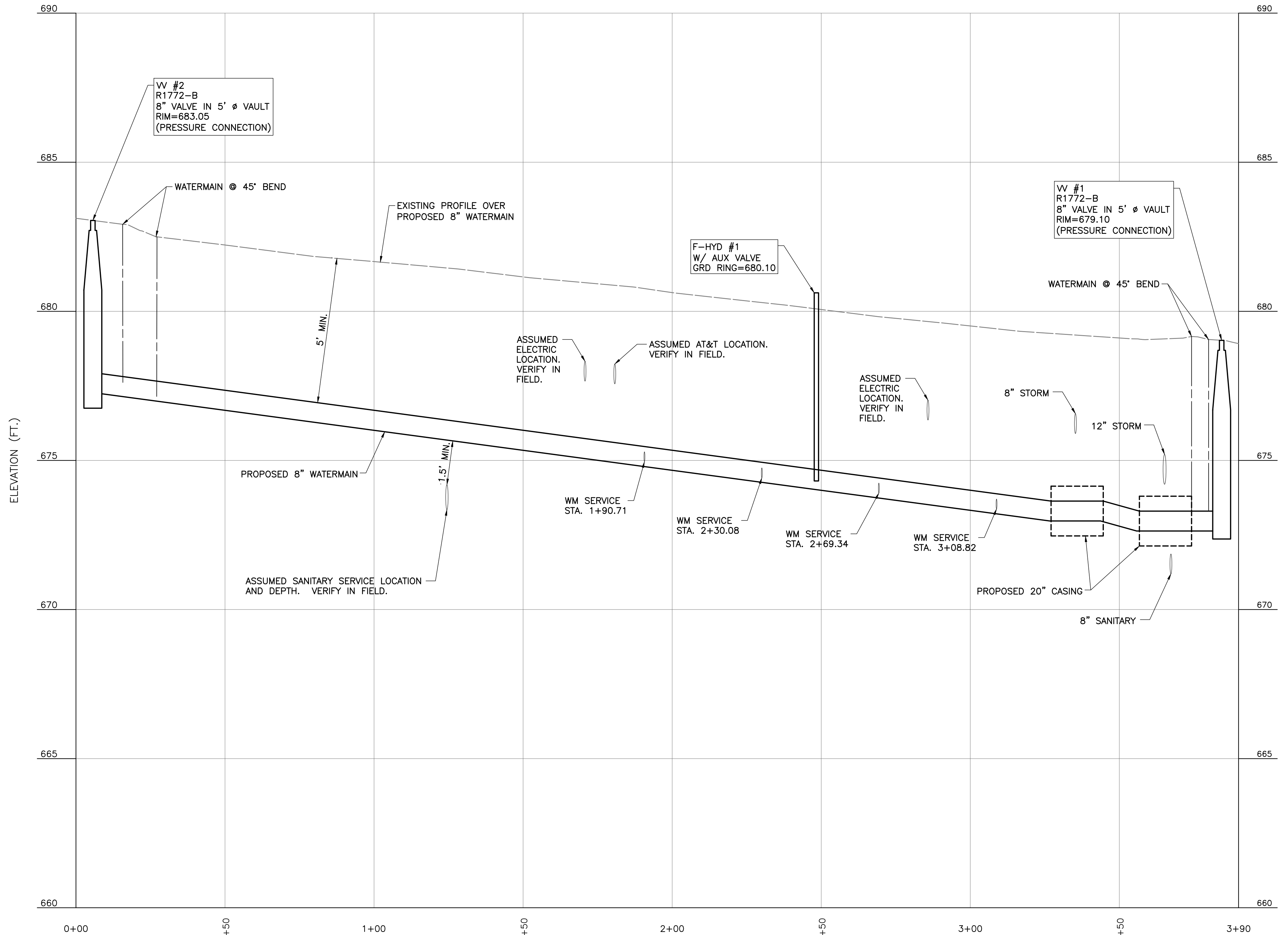
683.96R 681.11N 681.41S 10" PVC

683.85R 678.551/P 683.56R 678.16W 678.11E 12" STM

683.88R 674.78E/W 683.68W(12") 687.78N 687.68S 10" STM

684.14R 681.29S 681.14N 683.76R 680.26 12" STM

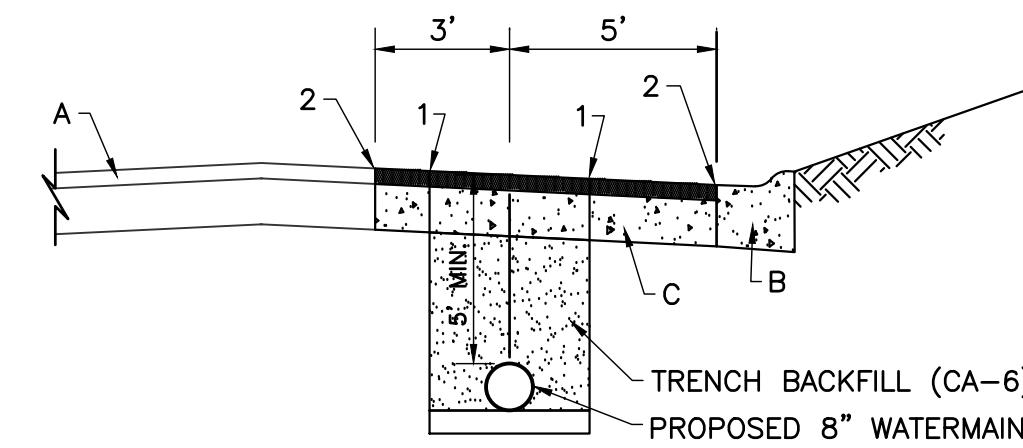
683.37R NOT VISIBLE 682.94R 679.59 12" STM



WEBSTER STREET WATERMAIN PROFILE

SCALE H:1"=20'; V:1"=2'

- A. EXISTING BITUMINOUS PAVEMENT COMPOSITION OF SECTION UNKNOWN
- B. EXISTING COMBINATION CONCRETE CURB & GUTTER
- C. UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS) SEE SHEET C803

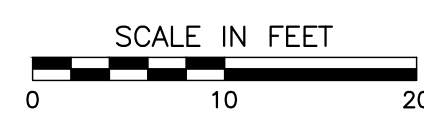


- 1. INITIAL SAWCUT BASED ON THE TRENCH WIDTHS SPECIFIED WITHIN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS"
- 2. FINAL SAWCUT - MINIMUM TWO (2) FEET WIDER THAT THE INITIAL SAWCUT TRENCH WIDTH OR AS DIMENSIONED ON THE PLANS.

NOTES:

- 1. THE CONCRETE PATCH SHALL BE POURED TO PROVIDE 2 INCHES OF REVEAL AT THE GUTTER FLAG AND FINAL PAVEMENT SAWCUT TO ALLOW FOR THE 2 INCH SURFACE OVERLAY.
- 2. TRENCH BACKFILL (CA-6) WILL BE PROVIDED UP TO SUBGRADE (MINIMUM) AND FINISHED GRADE THROUGH INTERSECTIONS AND DRIVEWAYS ON A TEMPORARY BASIS. UPON RECEIVING APPROVAL FROM IEPA, THE WATER SERVICES SHALL BE INSTALLED, THE BACKFILL RECOMPACTED, AND THE FINAL CONCRETE PATCH SHALL BE PLACED. EXCAVATION IN THE TRENCH BACKFILL FOR WATER SERVICE INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

SECTION A-A - WEBSTER STREET (N.T.S.)



REVISION RECORD

NO.	DATE	DESCRIPTION
1	04/10/2024	NO REVISIONS THIS SHEET
2	04/10/2024	NO REVISION THIS SHEET

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TRIFOX PROPERTIES, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

UTILITY PLAN - 2

DATE:	APRIL 10, 2024	DRAWN BY:	IMAJ
DWG SCALE:	AS SHOWN	CHECKED BY:	JGC
PROJECT NO.:	341-027	APPROVED BY:	JGC

DRAWING NO. C501
SHEET 10 OF 16

For precast reinforced concrete sections, the dimensions may vary from the dimensions given to plus or minus 1/8".

ELEVATION - ECCENTRIC **ELEVATION - CONCENTRIC**

ALTERNATE BOTTOM SLAB

ALTERNATE MATERIALS FOR WALLS	FINISH
Concrete Masonry Units	3 (1200)
Brick Masonry	8 (2200)
Formed Reinforced Concrete Section	7 (170)
Cast-in-Place Concrete	1 (100)

GENERAL NOTES

Minimum slab shall be constructed with a thickness of 6" (6" for 12" dia. riser) in each direction with a maximum loading of 12' (200).

Bottom slabs may be connected to the riser as described in the following manner: only a single row of reinforcement around the perimeter may be utilized.

See Standard 620603 for optional Precast Reinforced Concrete for Basins. All dimensions are in inches (unless otherwise shown).

DATE	REVISIONS	INLET - TYPE B
1-1-11	Detailed rev. in walls.	
1-1-11	Added max. load to height.	
1-1-11	Revised general notes.	
1-1-11	Revised units to English.	
	English units.	

STANDARD 602306-03

FLAT SLAB TOP PRECAST REINFORCED CONCRETE

D	T	D _o	REINFORCEMENT "A" W.W.F. EACH DIRECTION	OR SIZE	#4 BAR C SIZE	#4 BAR C LENGTH	#4 BAR C RADIUS
3"	3"	6"	0.20 SQ. INCH/FT.	#4	48"	19"	
4"	4"	5"	0.35 SQ. INCH/FT.	#5	54"	26"	
5"	5"	6"	0.35 SQ. INCH/FT.	#5	60"	32"	

NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

STORM 3

STANDARD 620303

BEEHIVE GRATE

SECTION A-A

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".

STORM 14

STANDARD 620314

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
STANDARD DETAIL

FRAME & LID OR GRATE

STORM 10

REVISOR: 05/15/2015

SHEET 1 OF 1

290.10

CATCH BASIN - TYPE A

CASTING AS SPECIFIED

PREFORMED ADJUSTING RINGS (12" MAX. ADJUSTMENT) CONCRETE RINGS MAY NOT BE USED

ALTERNATE FLAT SLAB TOP (SEE STANDARD DETAIL STORM 290.03)

30° ECCENTRIC CONE SECTION

PIPE LENGTH

MORTAR COLLAR (TYP.)

PLAN ELEVATION

PRECAS REINF. CONC. SECTIONS

SELECT GRANULAR MATERIAL, CA-11

6" MIN. BEDDING

PRECAS REINF. CONC. BOTTOM WITH INTEGRAL SIDEWALL

NOTE:

A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

City of Naperville
STANDARD DETAIL

STORM 2

REVISOR: 08/01/2018

SHEET 1 OF 1

290.02

CAST IRON STEPS

PLAN

SECTION B-B

City of Naperville
STANDARD DETAIL

STORM 6

REVISOR: 01/01/2013

SHEET 1 OF 1

290.06

INLET - TYPE A

CASTING AS SPECIFIED

PREFORMED ADJUSTING RINGS (12" MAX. ADJUSTMENT) CONCRETE RINGS MAY NOT BE USED

DRAIN HOLE (TYP.) (SEE NOTE)

MORTAR COLLAR (TYP.)

PIPE AS SPECIFIED

PRECAS REINF. CONC. INLET WITH INTEGRAL BOTTOM AND SIDE WALL

SELECT GRANULAR BEDDING, CA-11, 6" MIN.

NOTE:

IN PAVED AREAS A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF THE STRUCTURE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.

City of Naperville
STANDARD DETAIL

STORM 5

REVISOR: 08/01/2018

SHEET 1 OF 1

290.05

FRAME & GRATE FOR B-6.12 CURB & GUTTER (DEPRESSED)

2 SAFETY BARS

CAST FRAME AND GRATE

NOTE:

- FRAME AND GRATE SHALL BE NEENAH R-3625-L, EAST JORDAN 5120, OR EQUAL APPROVED BY THE CITY ENGINEER.
- ALL CASTING SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
- ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE. DRAINS TO RIVER".

City of Naperville
STANDARD DETAIL

STORM 12

REVISOR: 05/15/2015

SHEET 1 OF 1

290.12

SUMP PUMP CONNECTION

SUMP PUMP DISCHARGE PIPE

PVC ELBOW (TYP.)

4" MIN. AIR GAP

4'-6" TYP.

12" MIN.

MIN. SLOPE 0.5%

4'-6" DIA. SUBSURFACE DRAIN PIPE CONNECTED TO STRUCTURE (SEE STANDARD DETAIL 290.31)

City of Naperville
STANDARD DETAIL

STORM 30

REVISOR: 01/01/2013

SHEET 1 OF 1

290.30

REVISION RECORD

NO.	DATE	DESCRIPTION
1.	04/17/2024	NO REVISION THIS SHEET
2.	04/17/2024	NO REVISION THIS SHEET

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DETAILS - 1

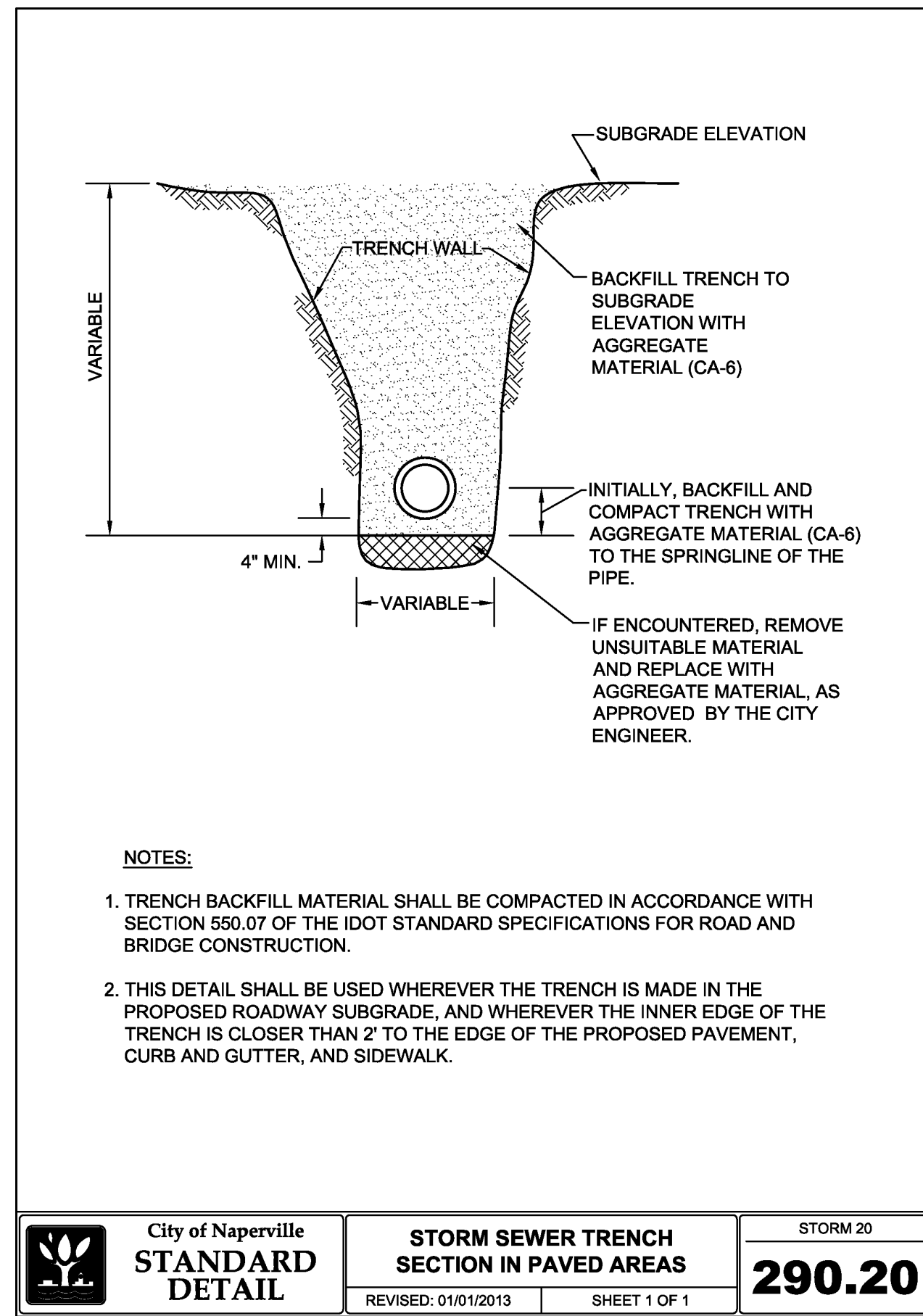
DATE:	DRAWN BY:	MAJ	JGC
APRIL 10, 2024	JGC		

DWS SCALE:	NOT TO SCALE	CHECKED BY:	341-027

APPROVED BY: JGC

DRAWING NO: **C800**

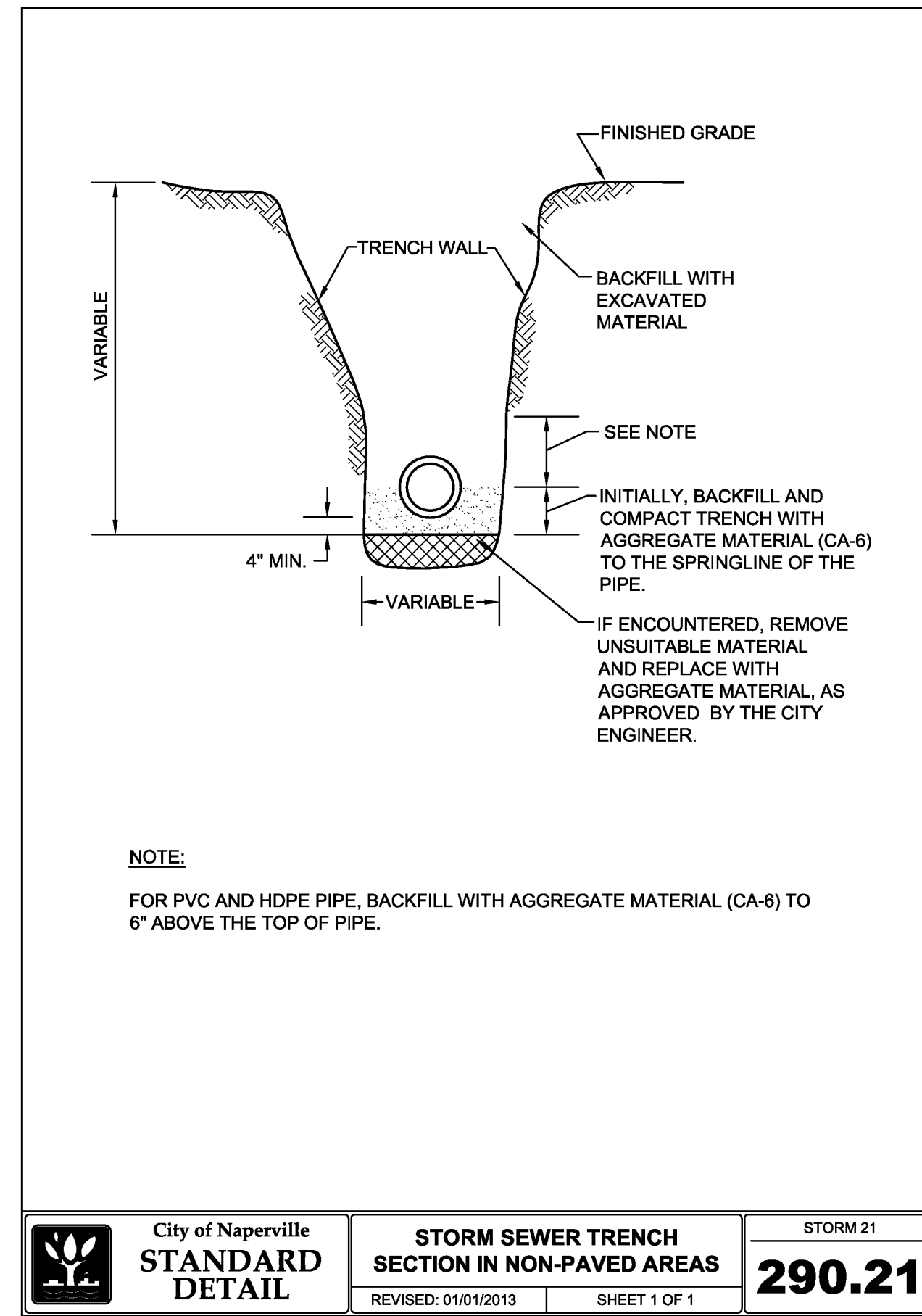
SHEET 11 OF 16



NOTES:

1. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. THIS DETAIL SHALL BE USED WHEREVER THE TRENCH IS MADE IN THE PROPOSED ROADWAY SUBGRADE, AND WHEREVER THE INNER EDGE OF THE TRENCH IS CLOSER THAN 2' TO THE EDGE OF THE PROPOSED PAVEMENT, CURB AND GUTTER, AND SIDEWALK.

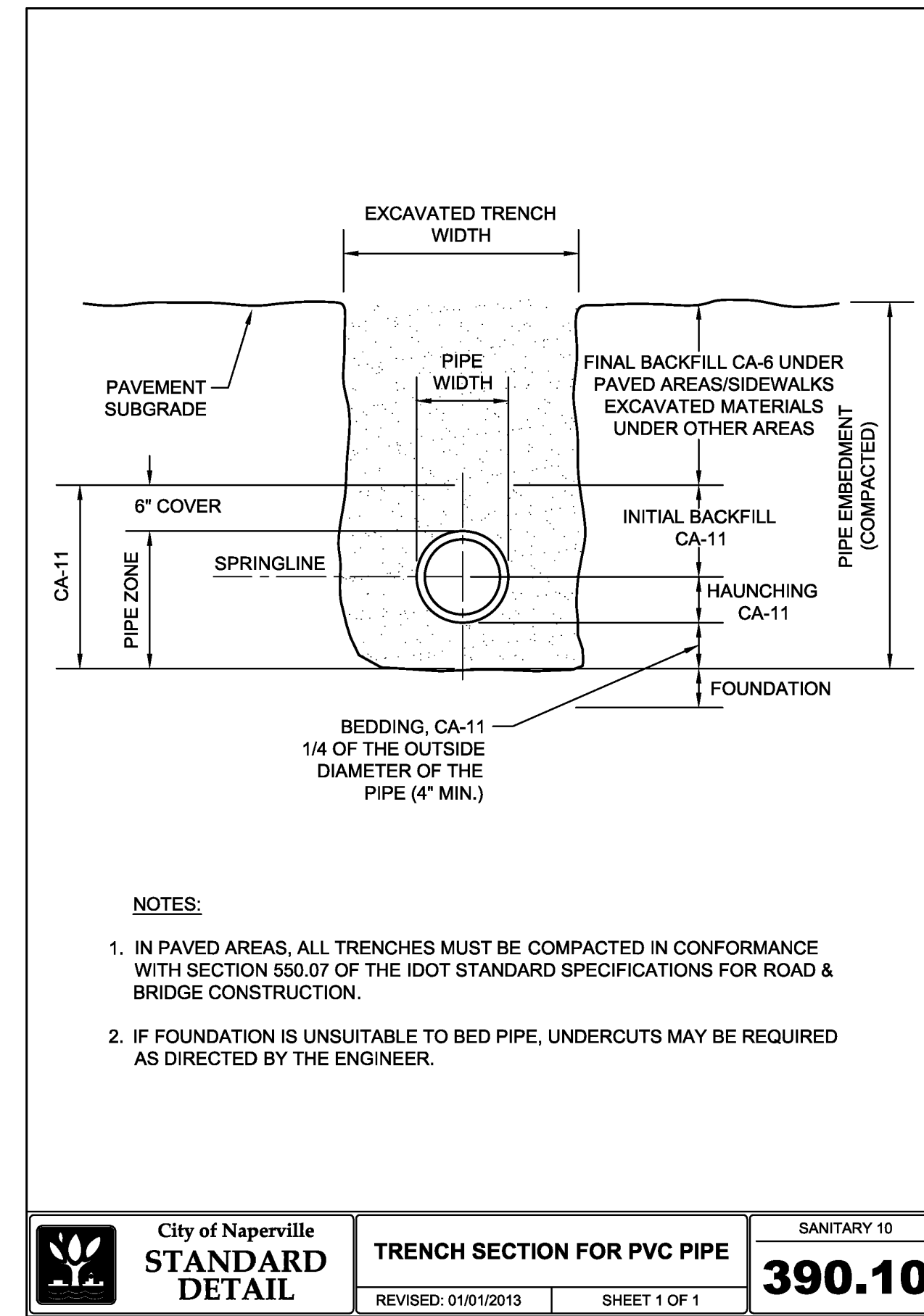
City of Naperville
STANDARD DETAIL
STORM SEWER TRENCH SECTION IN PAVED AREAS
REVIS: 01/01/2013 SHEET 1 OF 1
290.20
STORM 20



NOTE:

FOR PVC AND HDPE PIPE, BACKFILL WITH AGGREGATE MATERIAL (CA-6) TO 6\"/>

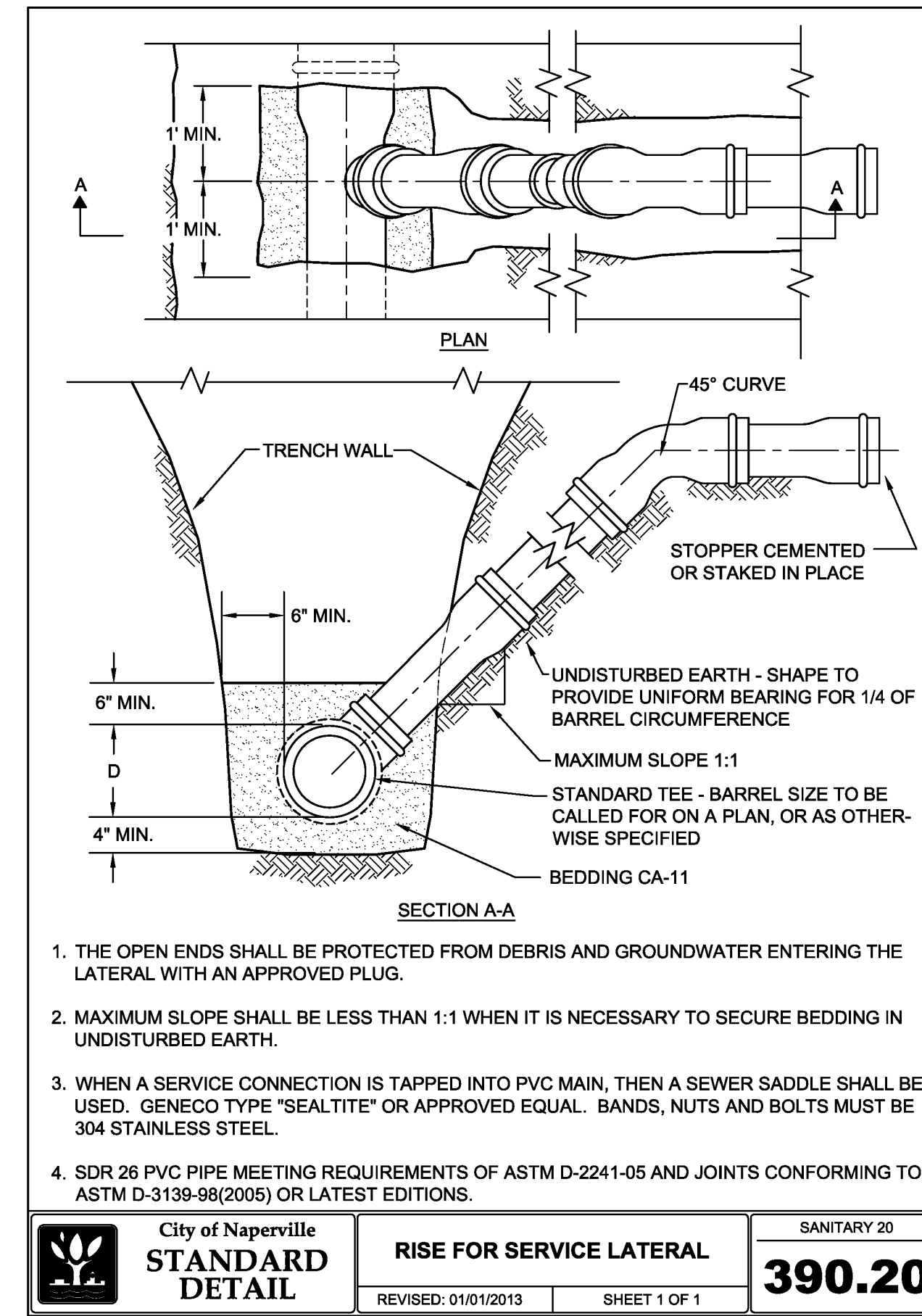
City of Naperville
STANDARD DETAIL
STORM SEWER TRENCH SECTION IN NON-PAVED AREAS
REVIS: 01/01/2013 SHEET 1 OF 1
290.21
STORM 21



NOTES:

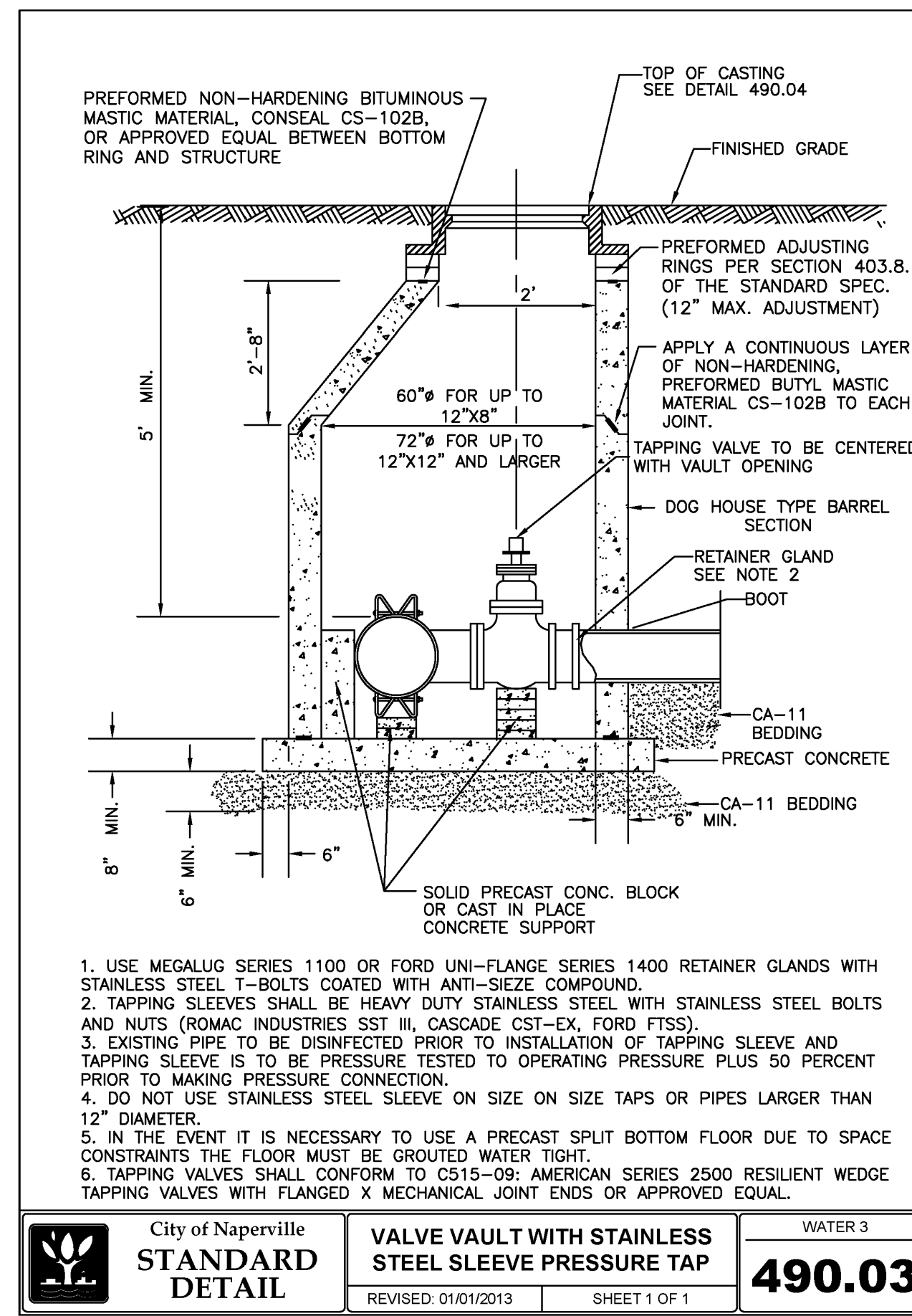
1. IN PAVED AREAS, ALL TRENCHES MUST BE COMPACTED IN CONFORMANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
2. IF FOUNDATION IS UNSUITABLE TO BED PIPE, UNDERCUTS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

City of Naperville
STANDARD DETAIL
TRENCH SECTION FOR PVC PIPE
REVIS: 01/01/2013 SHEET 1 OF 1
390.10
SANITARY 10



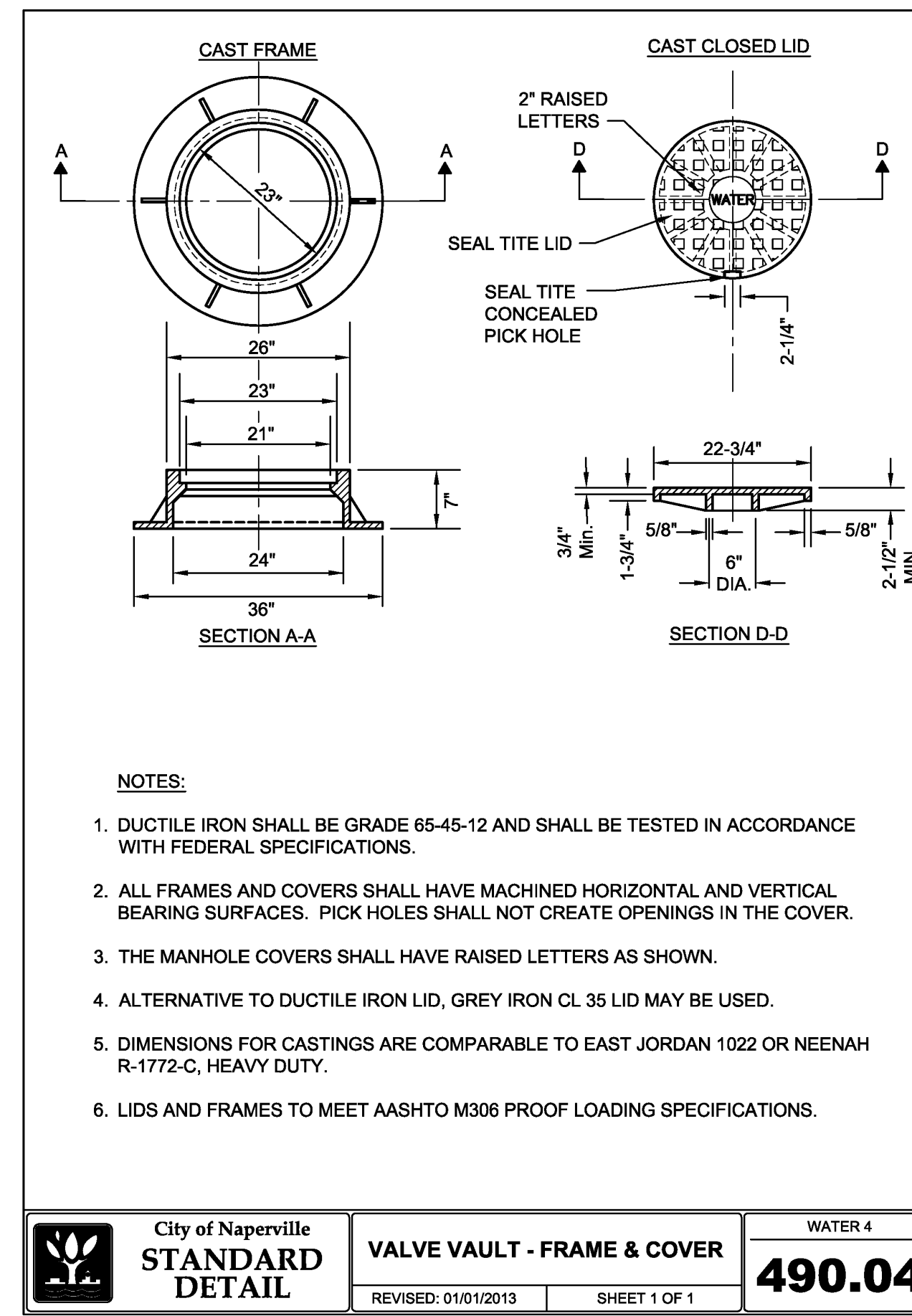
1. THE OPEN ENDS SHALL BE PROTECTED FROM DEBRIS AND GROUNDWATER ENTERING THE LATERAL WITH AN APPROVED PLUG.
2. MAXIMUM SLOPE SHALL BE LESS THAN 1:1 WHEN IT IS NECESSARY TO SECURE BEDDING IN UNDISTURBED EARTH.
3. WHEN A SERVICE CONNECTION IS TAPPED INTO PVC MAIN, THEN A SEWER SADDLE SHALL BE USED. GENECO TYPE "SEALTITE" OR APPROVED EQUAL. BANDS, NUTS AND BOLTS MUST BE 304 STAINLESS STEEL.
4. SDR 26 PVC PIPE MEETING REQUIREMENTS OF ASTM D-2241-05 AND JOINTS CONFORMING TO ASTM D-3139-98(2005) OR LATEST EDITIONS.

City of Naperville
STANDARD DETAIL
RISE FOR SERVICE LATERAL
REVIS: 01/01/2013 SHEET 1 OF 1
390.20
SANITARY 20



1. USE MEGALUG SERIES 1100 OR FORD UNI-FLANGE SERIES 1400 RETAINER GLANDS WITH STAINLESS STEEL T-BOLTS COATED WITH ANTI-SIZE COMPOUND.
2. TAPPING SLEEVES SHALL BE HEAVY DUTY STAINLESS STEEL WITH STAINLESS STEEL BOLTS AND NUTS (ROMAC INDUSTRIES SST III, CASCADE CST-EX, FORD FTSS).
3. EXISTING PIPE TO BE DISINFECTED PRIOR TO INSTALLATION OF TAPPING SLEEVE AND TAPPING SLEEVE IS TO BE PRESSURE TESTED TO OPERATING PRESSURE PLUS 50 PERCENT PRIOR TO MAKING PRESSURE CONNECTION.
4. DO NOT USE STAINLESS STEEL SLEEVE ON SIZE ON SIZE TAPS OR PIPES LARGER THAN 12\"/>

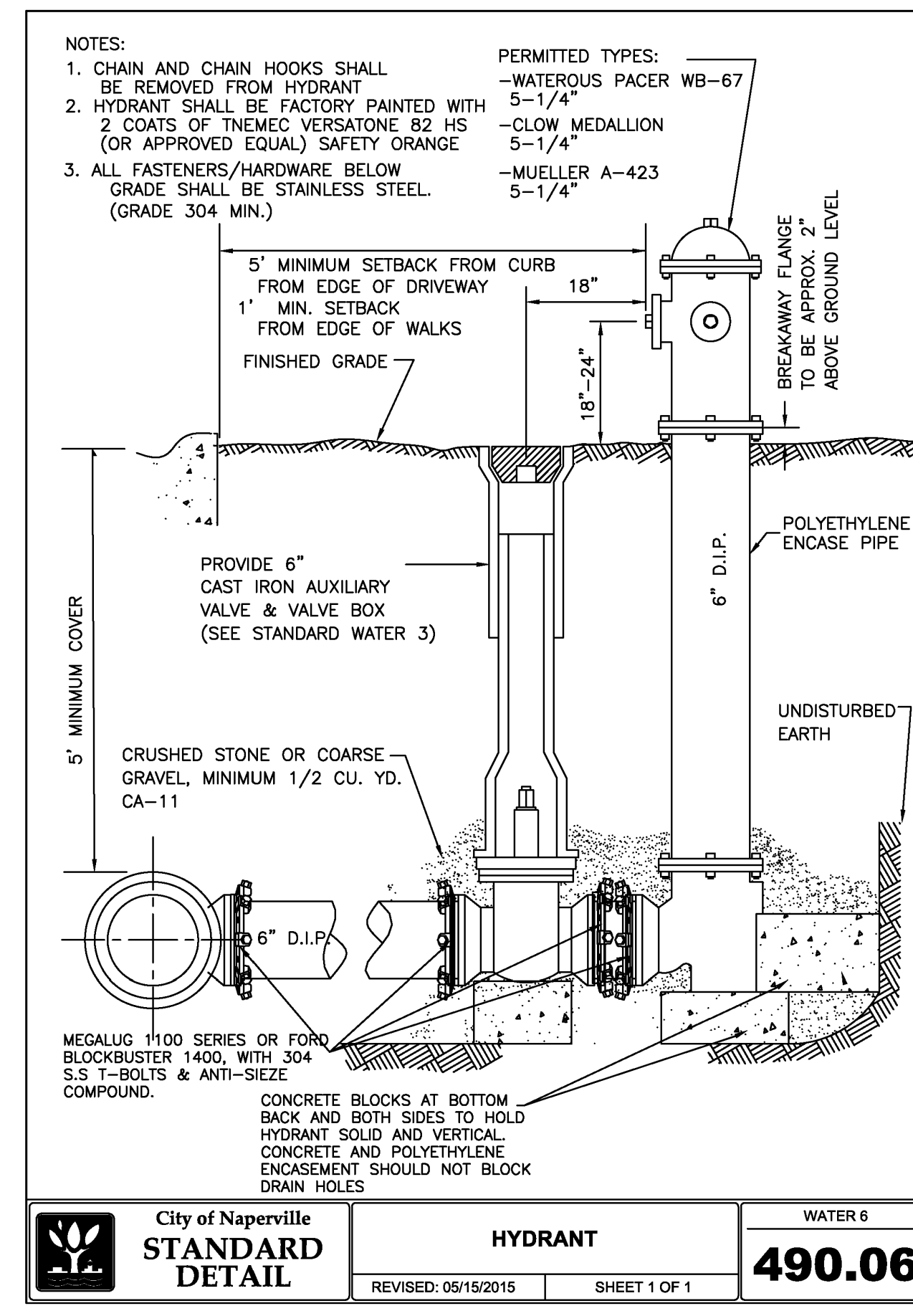
City of Naperville
STANDARD DETAIL
VALVE VAULT WITH STAINLESS STEEL SLEEVE PRESSURE TAP
REVIS: 01/01/2013 SHEET 1 OF 1
490.03
WATER 3



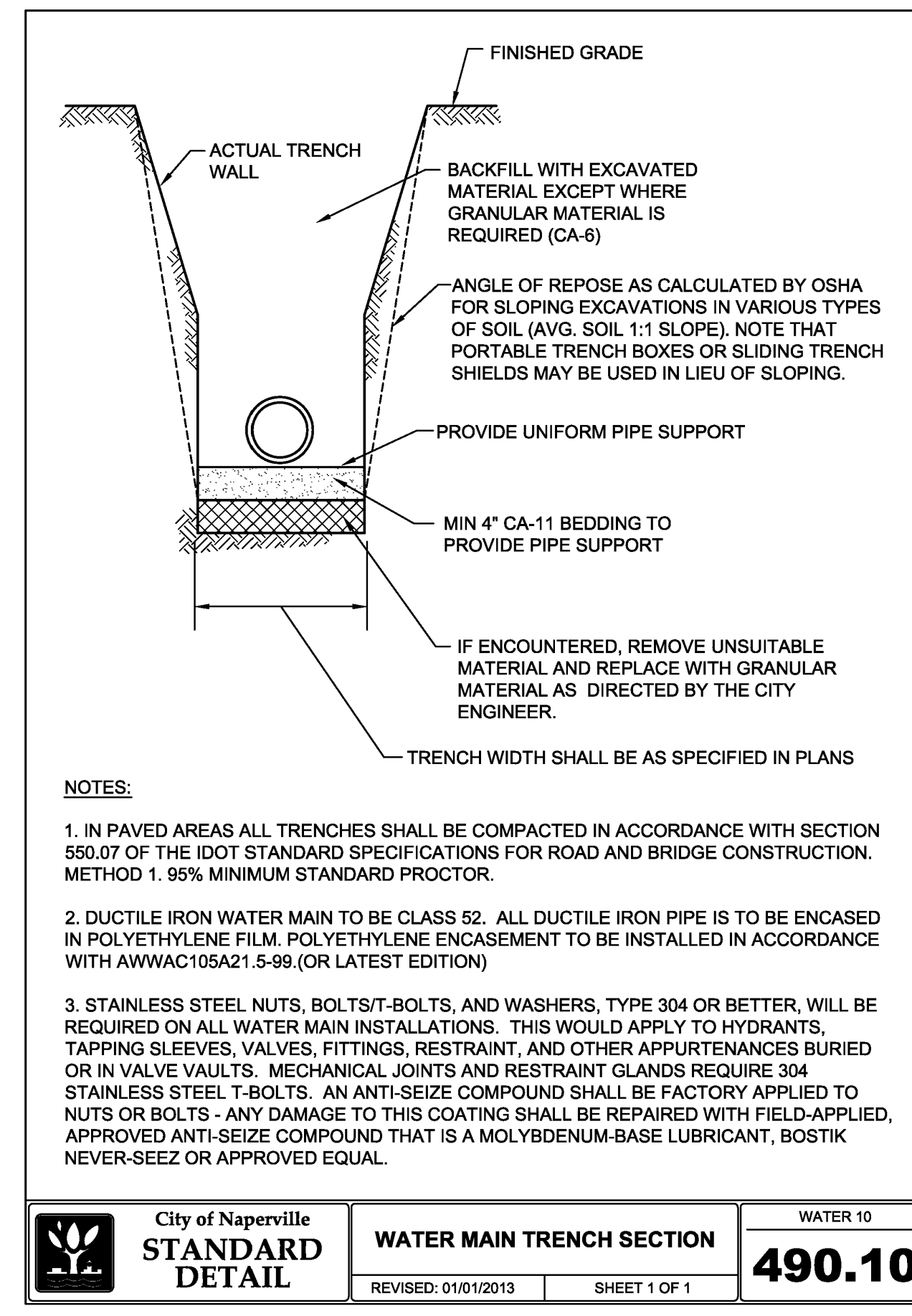
NOTES:

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

City of Naperville
STANDARD DETAIL
VALVE VAULT - FRAME & COVER
REVIS: 01/01/2013 SHEET 1 OF 1
490.04
WATER 4



City of Naperville
STANDARD DETAIL
HYDRANT
REVIS: 05/19/2015 SHEET 1 OF 1
490.06
WATER 6



NOTES:

1. 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.
2. 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 AWWAC105A21.5-99.(OR LATEST EDITION)
3. 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-SEEZ OR APPROVED EQUAL.

City of Naperville
STANDARD DETAIL
WATER MAIN TRENCH SECTION
REVIS: 01/01/2013 SHEET 1 OF 1
490.10
WATER 10

NO.	DATE	DESCRIPTION
1.	04/10/2024	NO REVISION THIS SHEET
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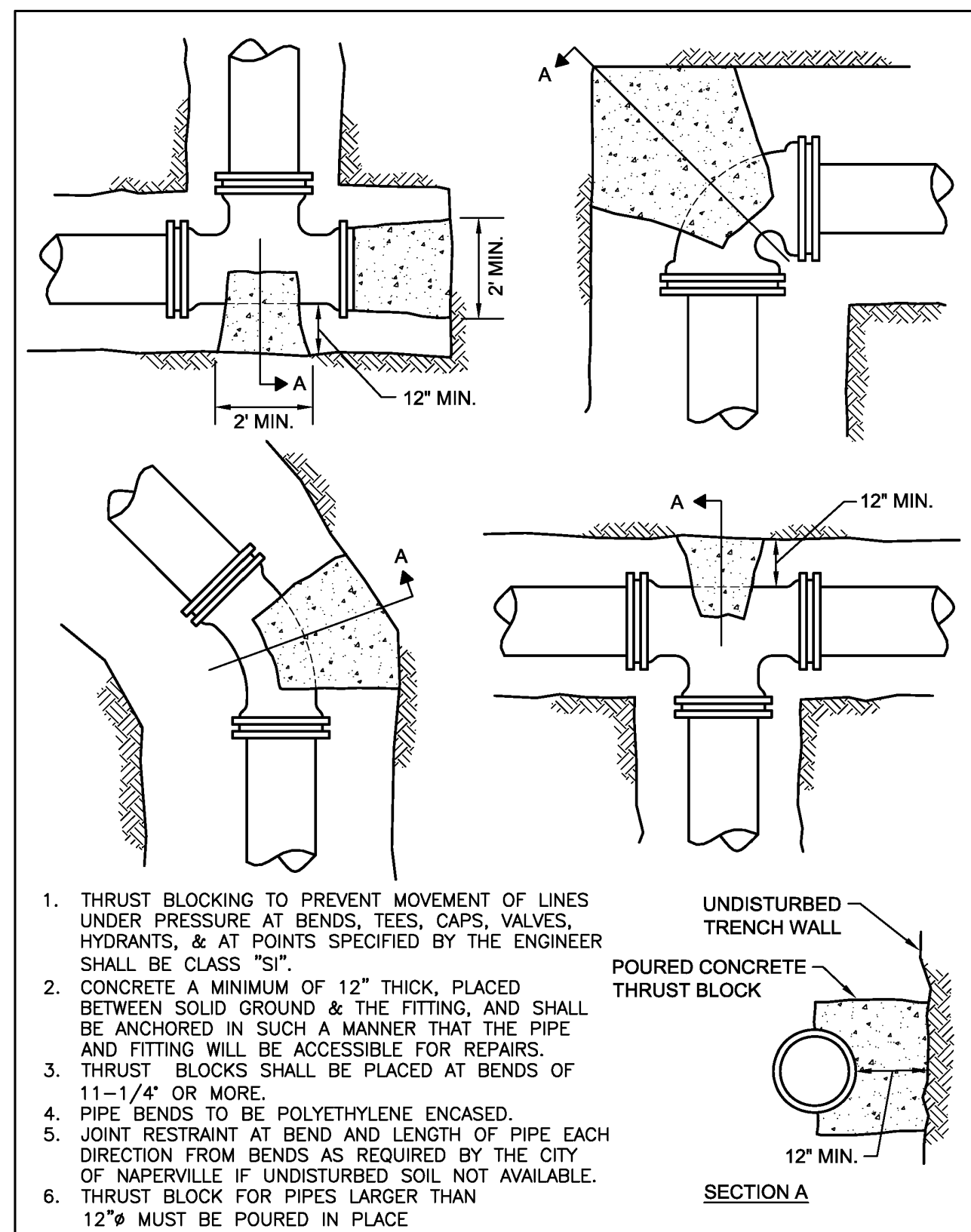
TRIFOX PROPERTIEZ, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

DETAILS - 2	
DATE:	APRIL 10, 2024
DRAWN BY:	MAJ
CHECKED BY:	JGC
NOT TO SCALE	341-027
APPROVED BY:	JGC

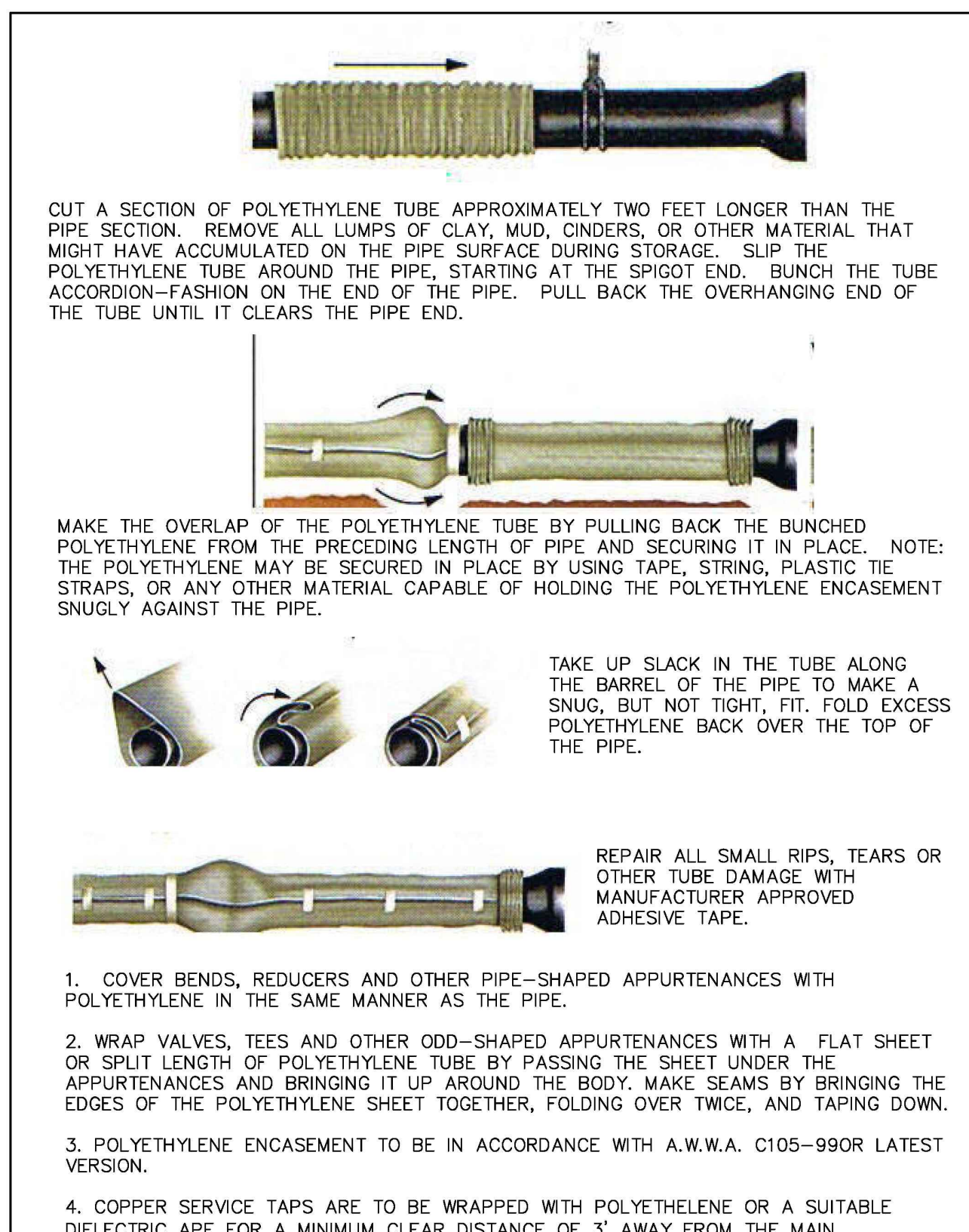
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SHEET 12 OF 16

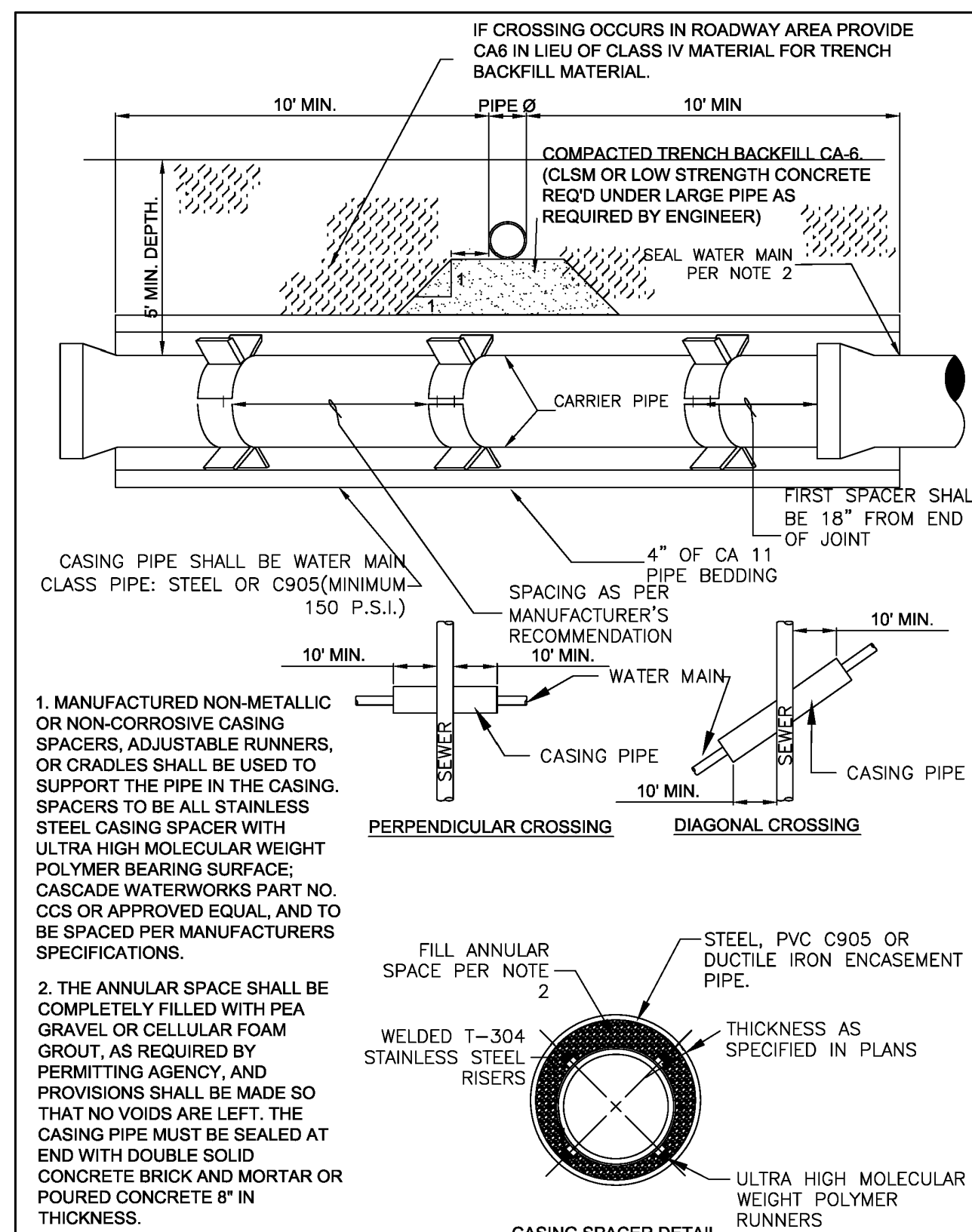
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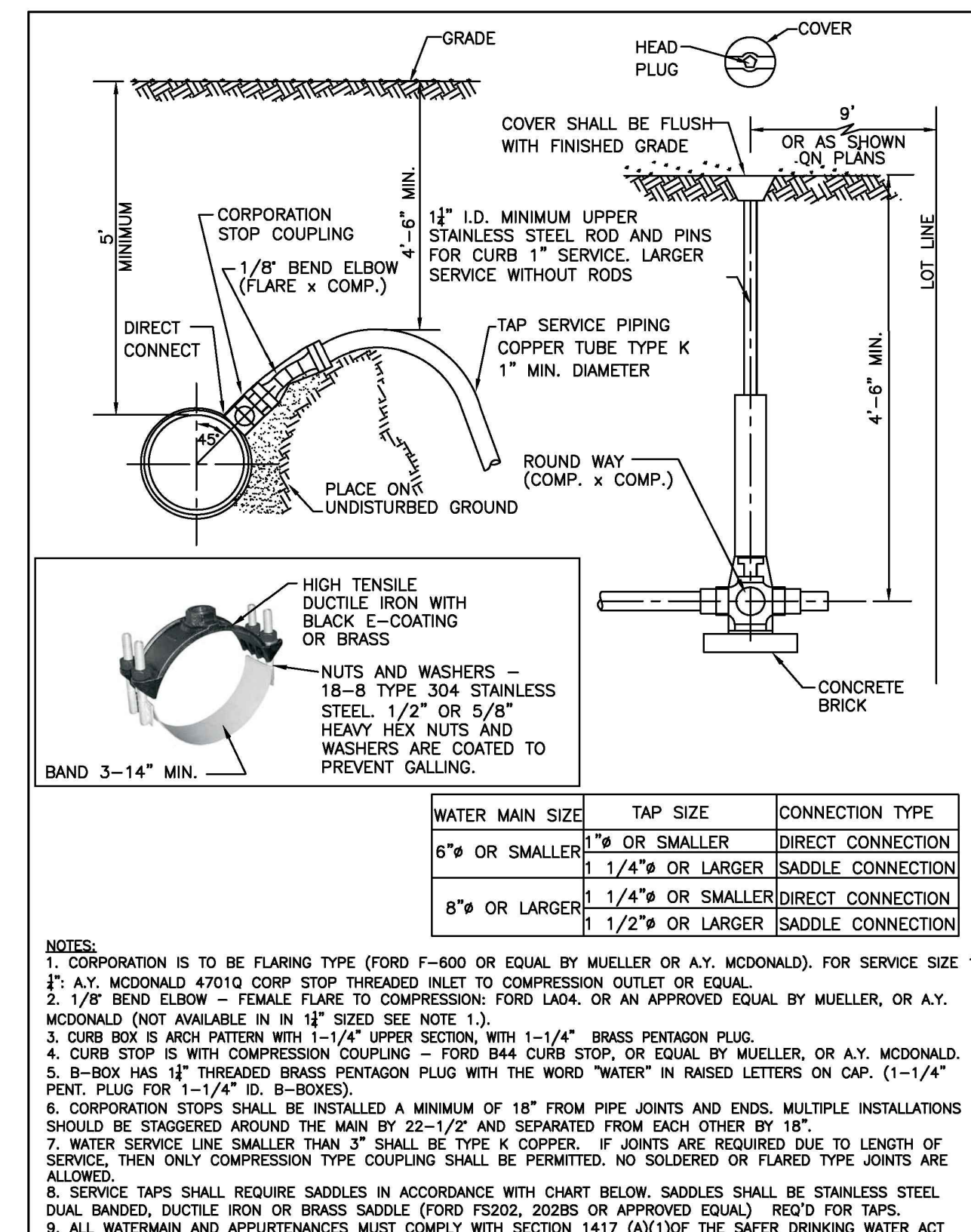
City of Naperville STANDARD DETAIL
THRUST BLOCK
 WATER 11
490.11
 REVISED: 05/15/2015 SHEET 1 OF 1



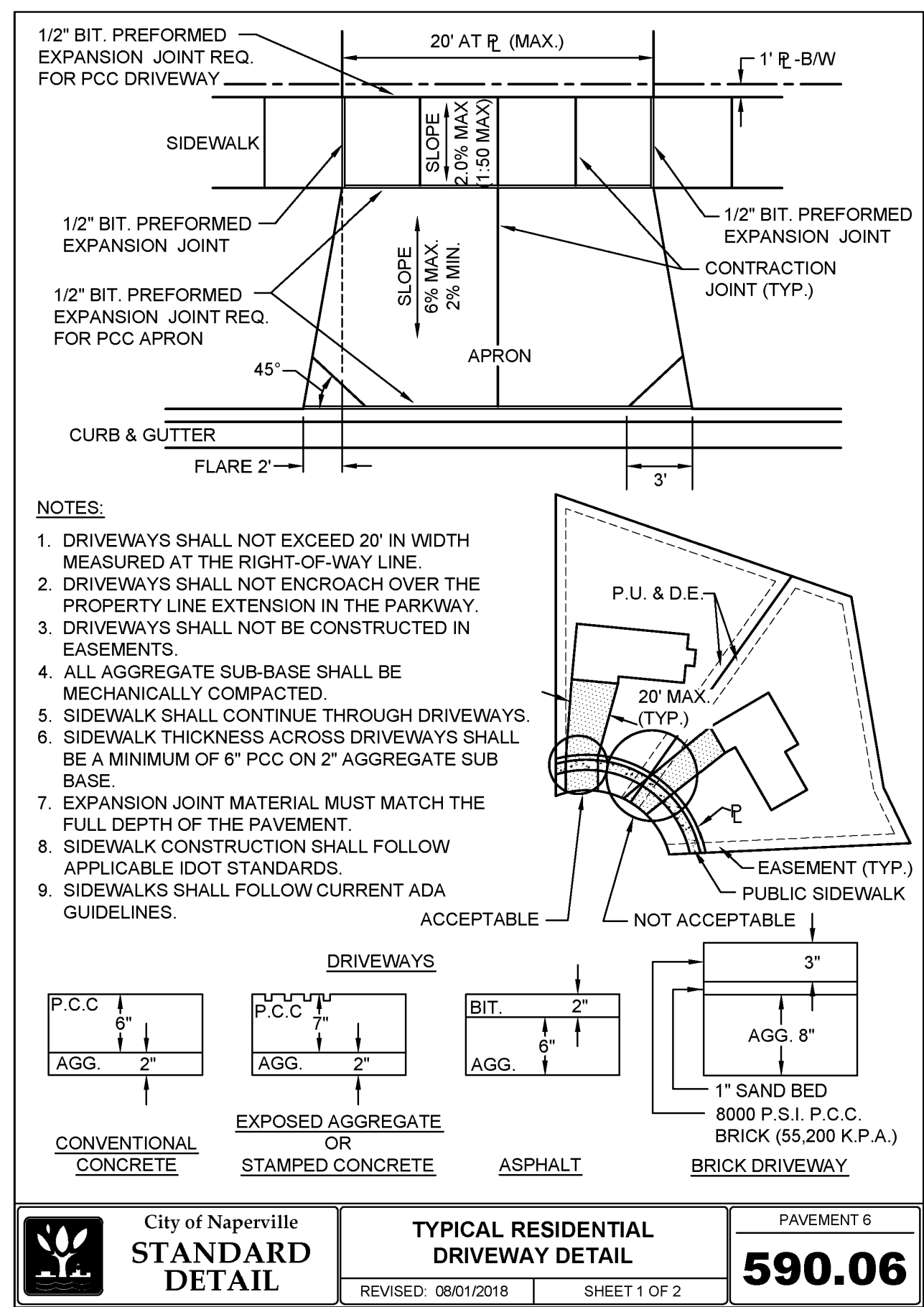
City of Naperville STANDARD DETAIL
POLYETHYLENE ENCASEMENT
 WATER 15
490.15
 REVISED: 01/01/2013 SHEET 1 OF 1



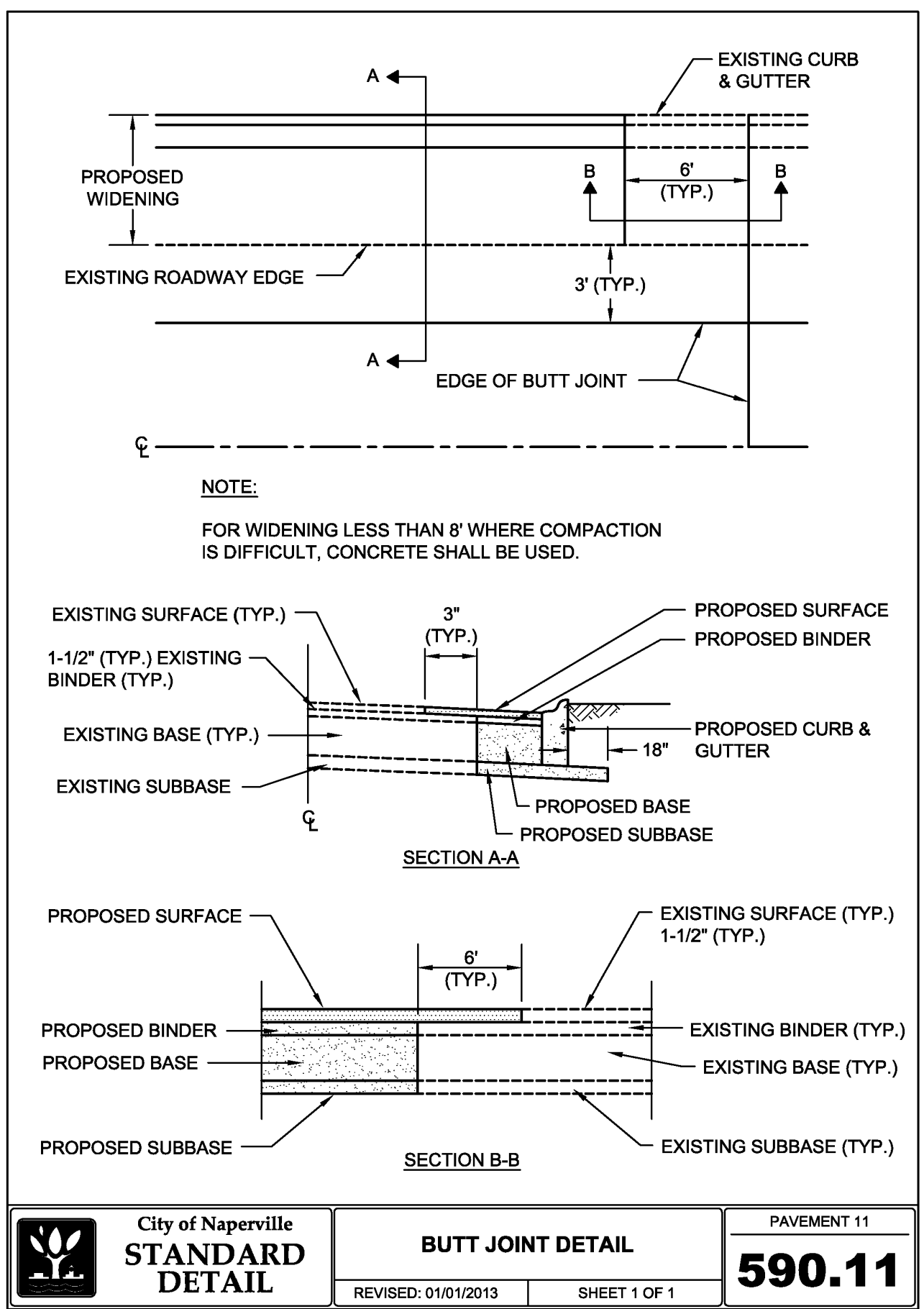
City of Naperville STANDARD DETAIL
WATER MAIN CASING PIPE
 WATER 16
490.16
 REVISED: 01/01/2013 SHEET 1 OF 1



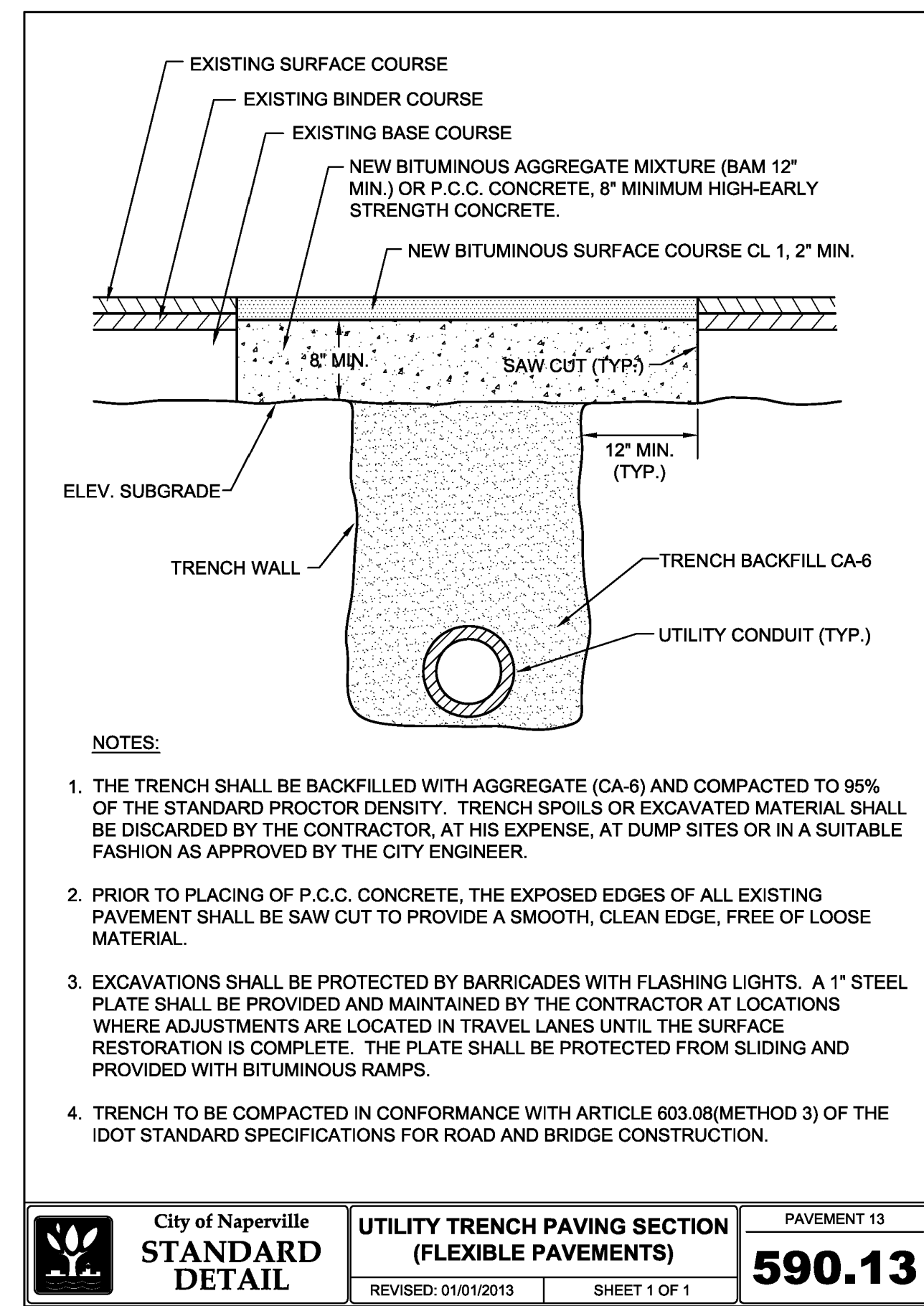
City of Naperville STANDARD DETAIL
SERVICE TAP AND CONNECTION
 WATER 20
490.20
 REVISED: 05/15/2015 SHEET 1 OF 1



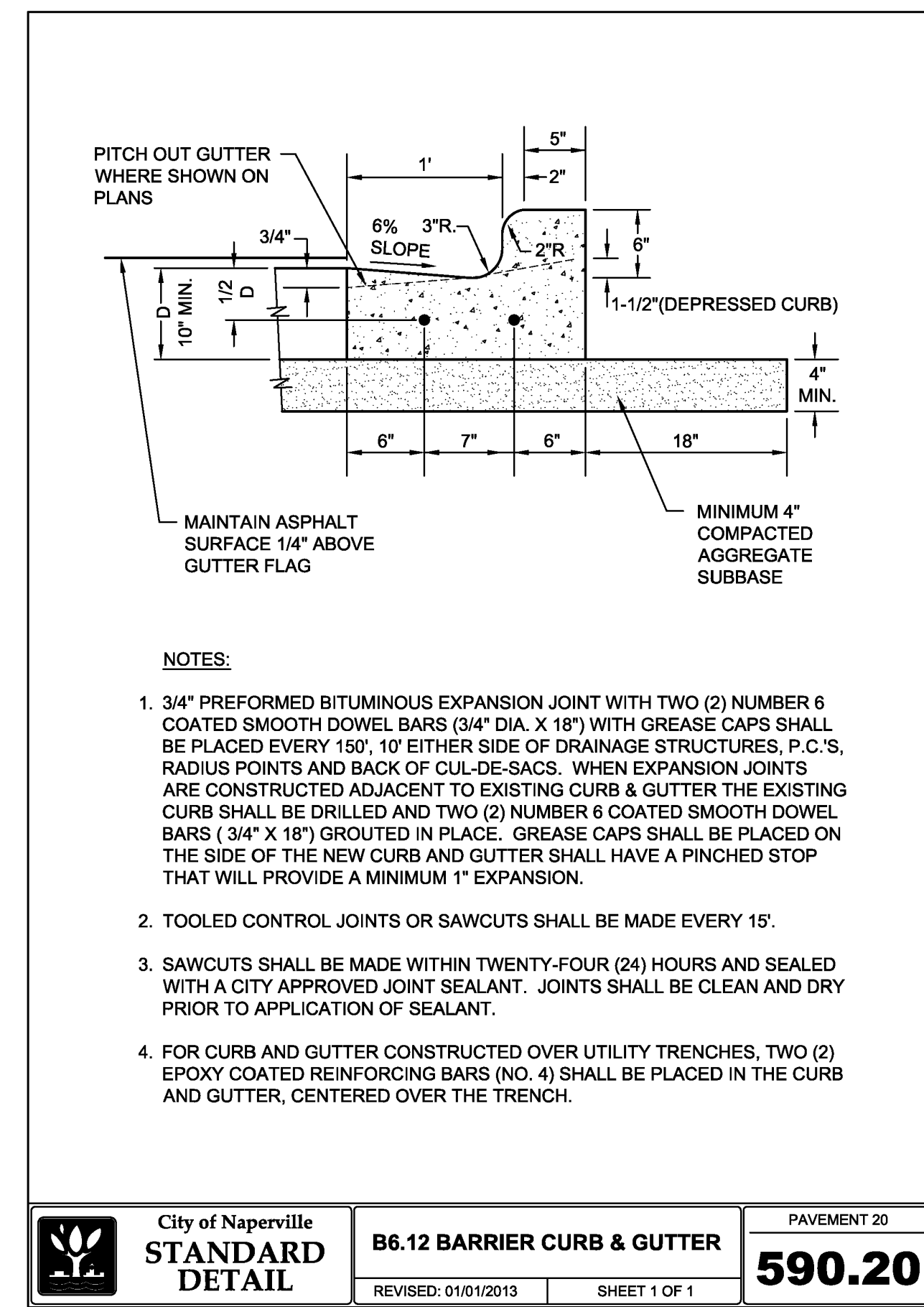
City of Naperville STANDARD DETAIL
TYPICAL RESIDENTIAL DRIVEWAY DETAIL
 PAVEMENT 6
590.06
 REVISED: 08/01/2018 SHEET 1 OF 2



City of Naperville STANDARD DETAIL
BUTT JOINT DETAIL
 PAVEMENT 11
590.11
 REVISED: 01/01/2013 SHEET 1 OF 1



City of Naperville STANDARD DETAIL
UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS)
 PAVEMENT 13
590.13
 REVISED: 01/01/2013 SHEET 1 OF 1



City of Naperville STANDARD DETAIL
B6.12 BARRIER CURB & GUTTER
 PAVEMENT 20
590.20
 REVISED: 01/01/2013 SHEET 1 OF 1

REVISION RECORD

NO.	DATE	DESCRIPTION
1.	05/15/2015	NO REVISION THIS SHEET
2.	05/15/2015	NO REVISION THIS SHEET

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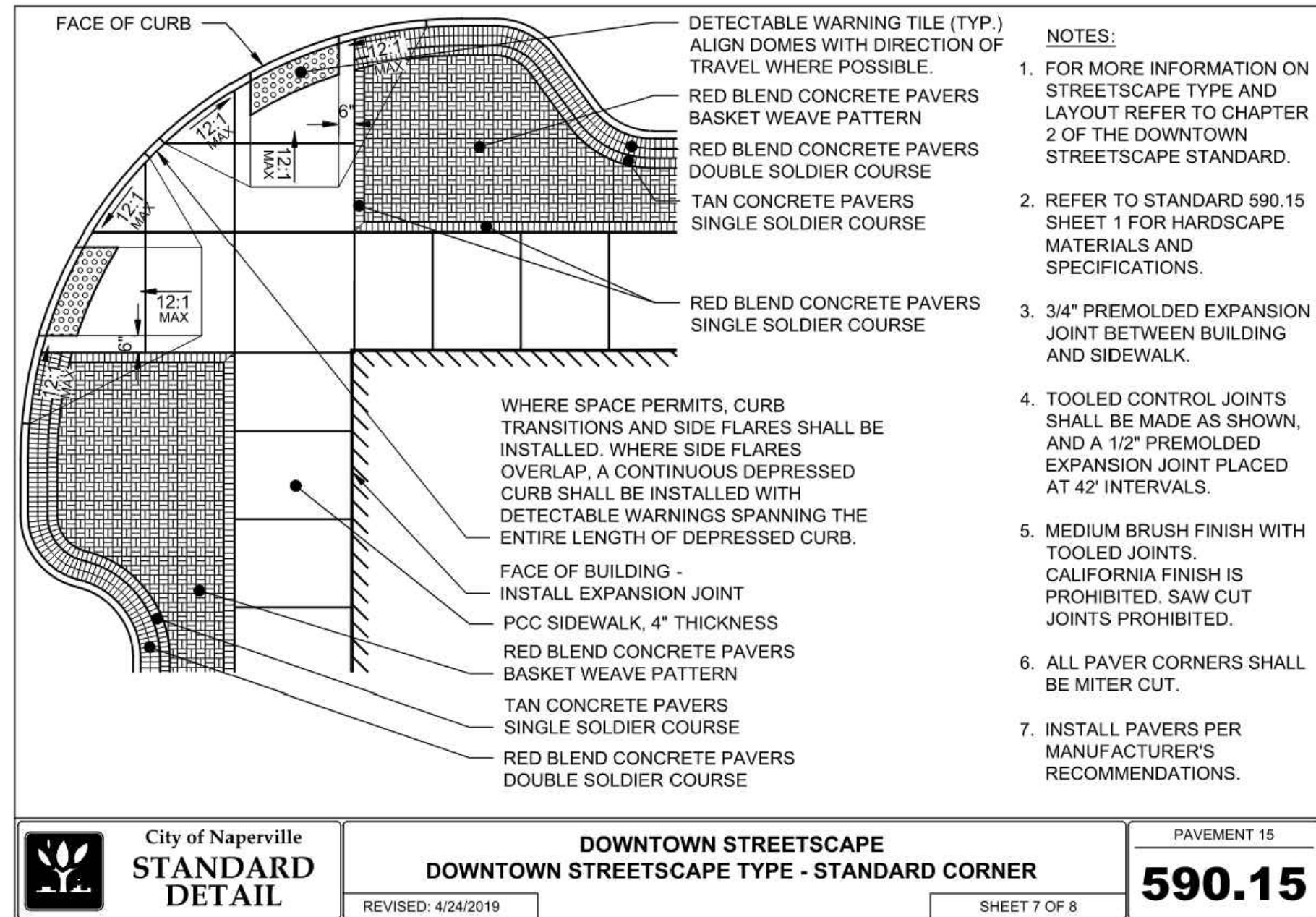
CECINCO
 Civil & Environmental Consultants, Inc.

TRIFOX PROPERTIES, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

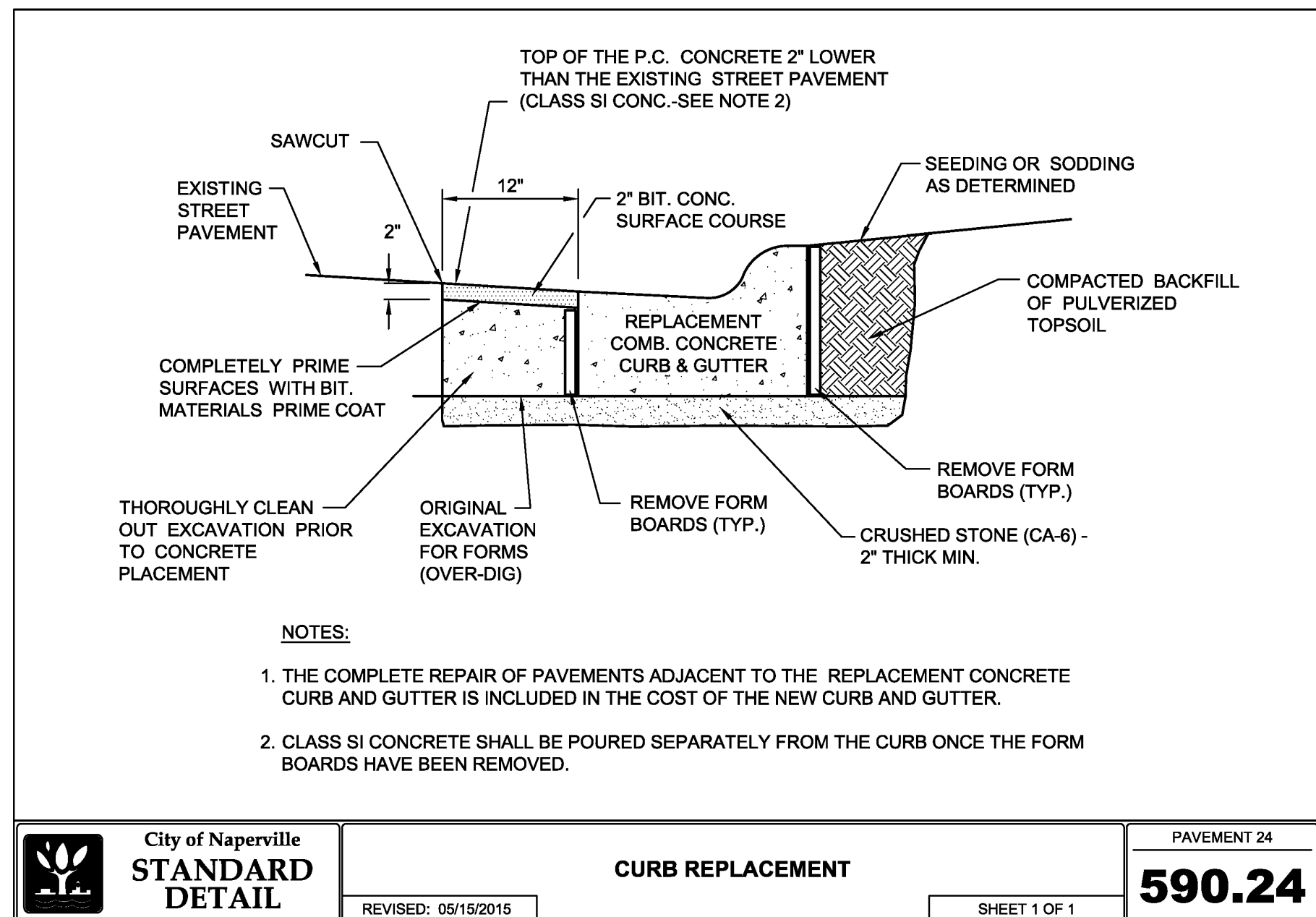
DETAILS - 3

DATE: APRIL 10, 2024 DRAWN BY: MAJ
 DWG SCALE: NOT TO SCALE CHECKED BY: JCC
 PROJECT NO: 341-027
 APPROVED BY: JCC

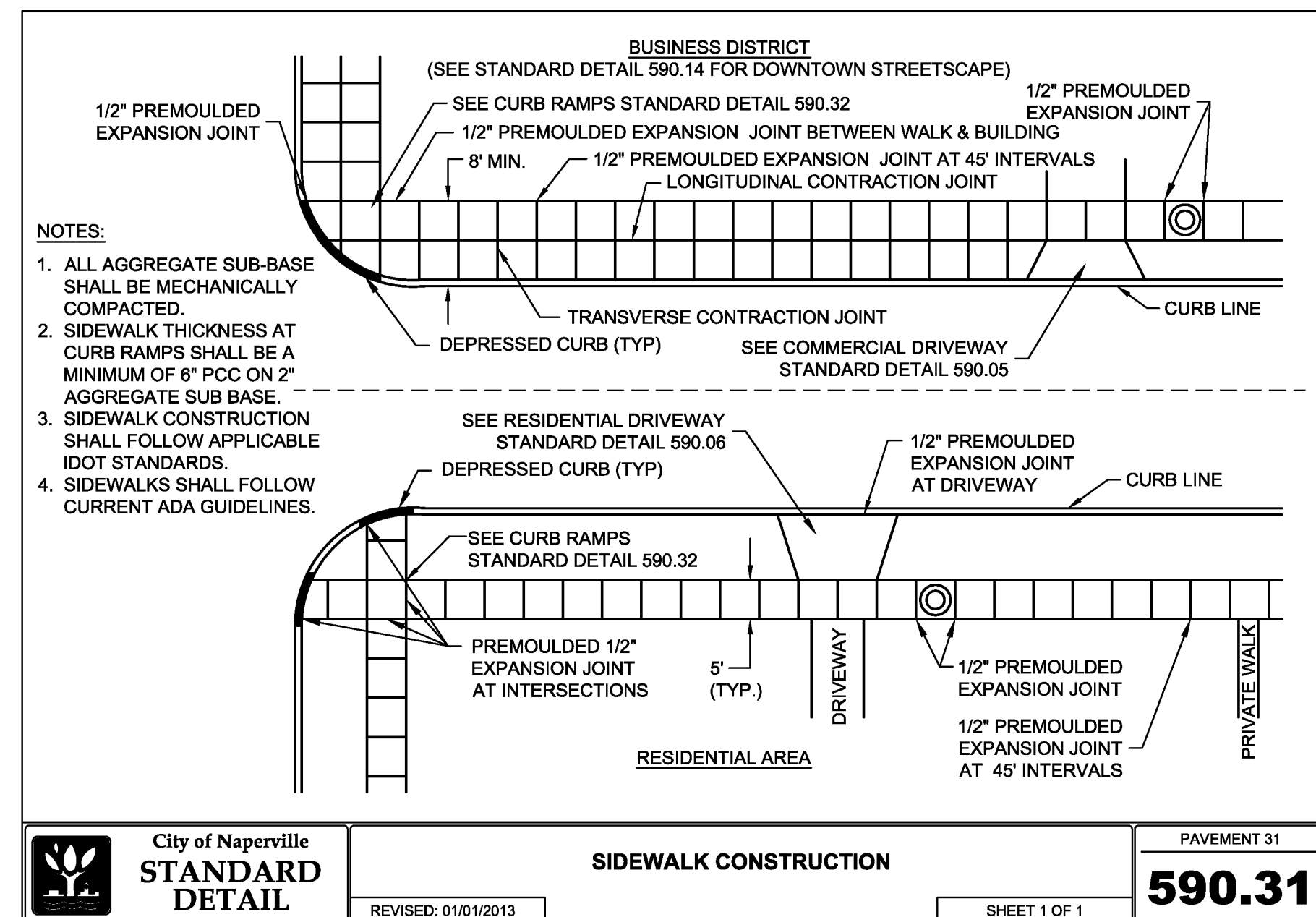
DRAWING NO: **C802**
 SHEET 13 OF 16



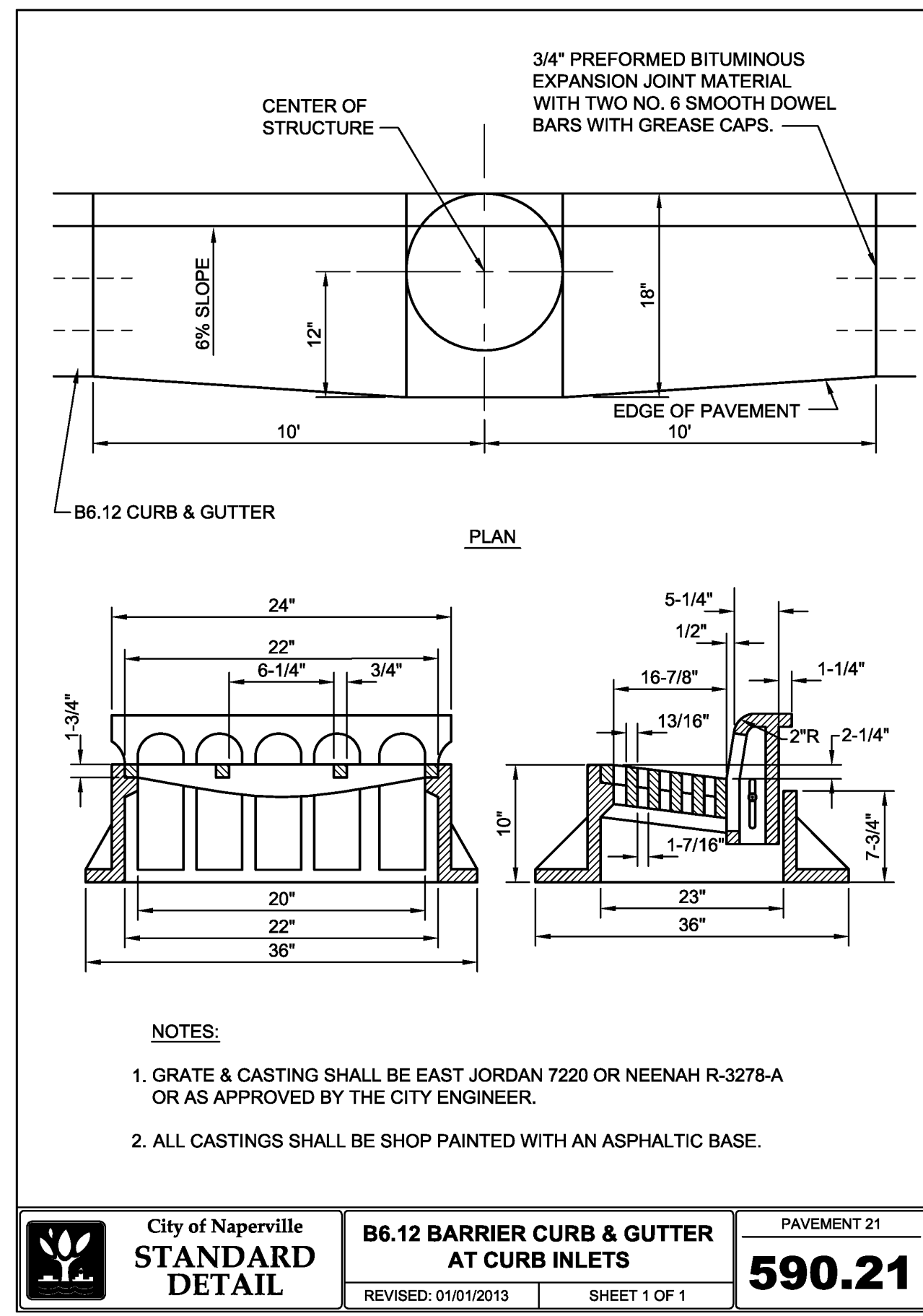
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STANDARD DETAIL
 DOWNTOWN STREETSCAPE
 DOWNTOWN STREETSCAPE TYPE - STANDARD CORNER
 REVISOR: 4/24/2019
 SHEET 1 OF 8
 PAVEMENT 15
590.15



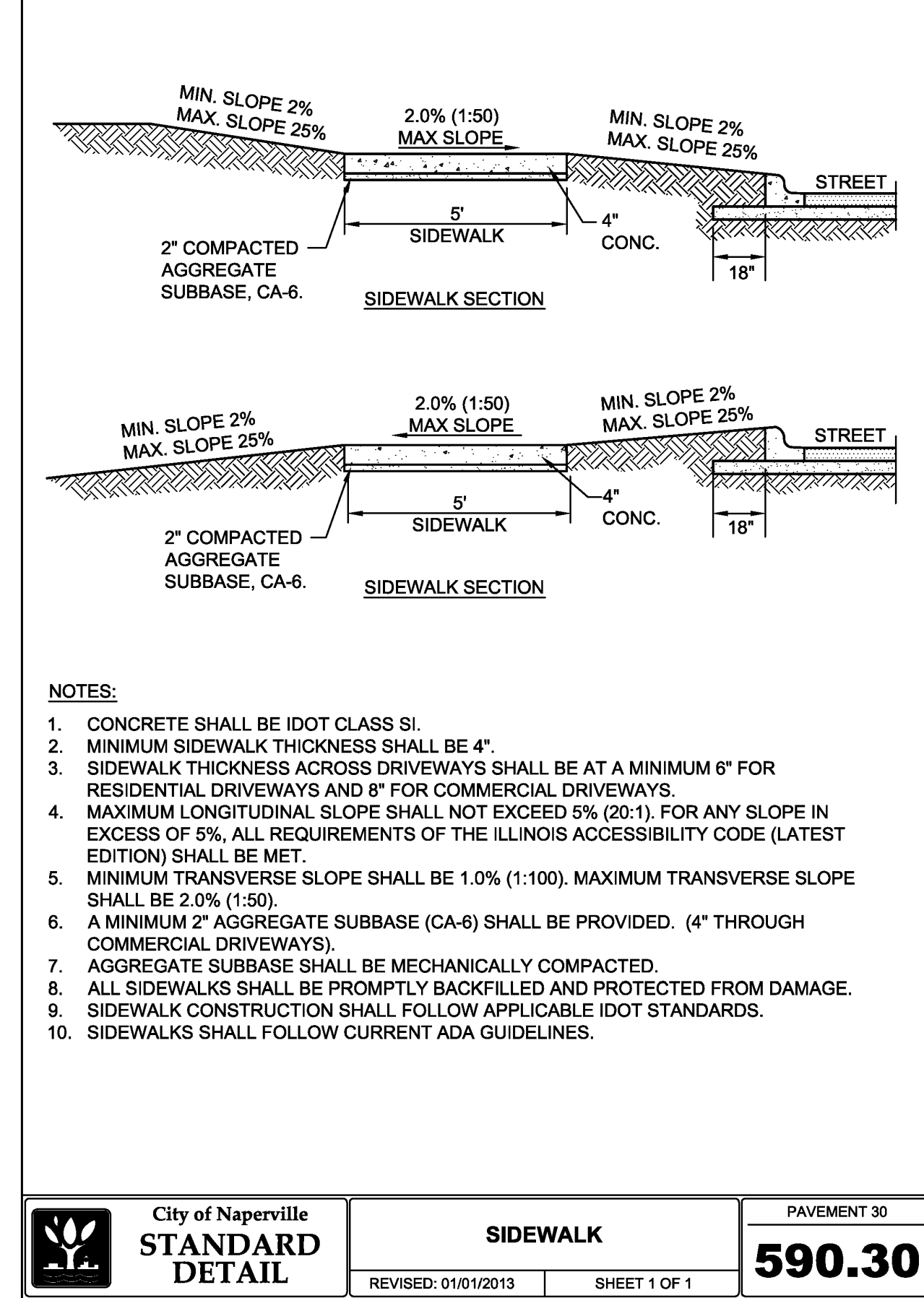
City of Naperville
STANDARD DETAIL
 CURB REPLACEMENT
 REVISOR: 05/15/2015
 SHEET 1 OF 1
 PAVEMENT 24
590.24



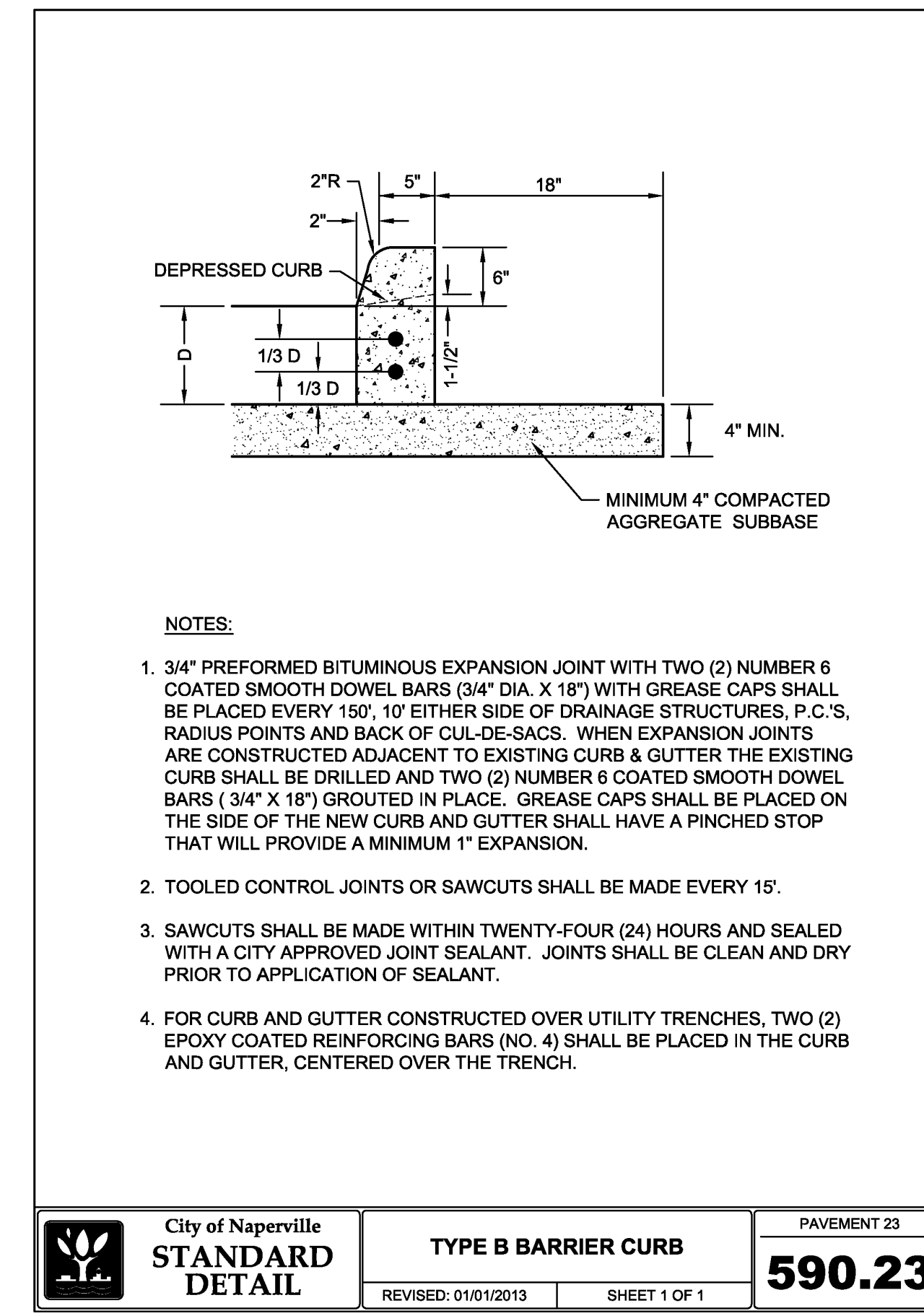
City of Naperville
STANDARD DETAIL
 SIDEWALK CONSTRUCTION
 REVISOR: 01/01/2013
 SHEET 1 OF 1
 PAVEMENT 31
590.31



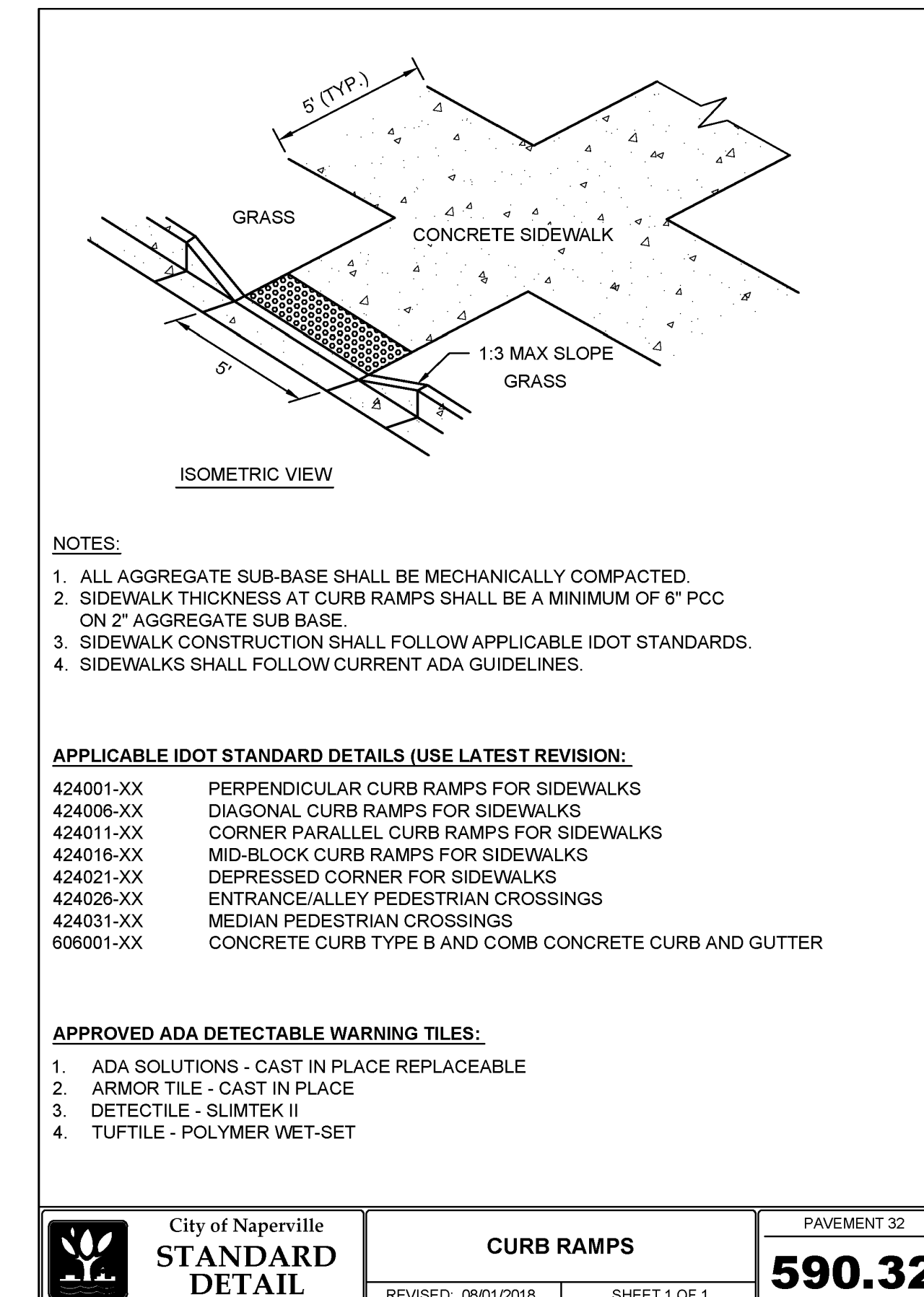
City of Naperville
STANDARD DETAIL
 B6.12 BARRIER CURB & GUTTER AT CURB INLETS
 REVISOR: 01/01/2013
 SHEET 1 OF 1
 PAVEMENT 21
590.21



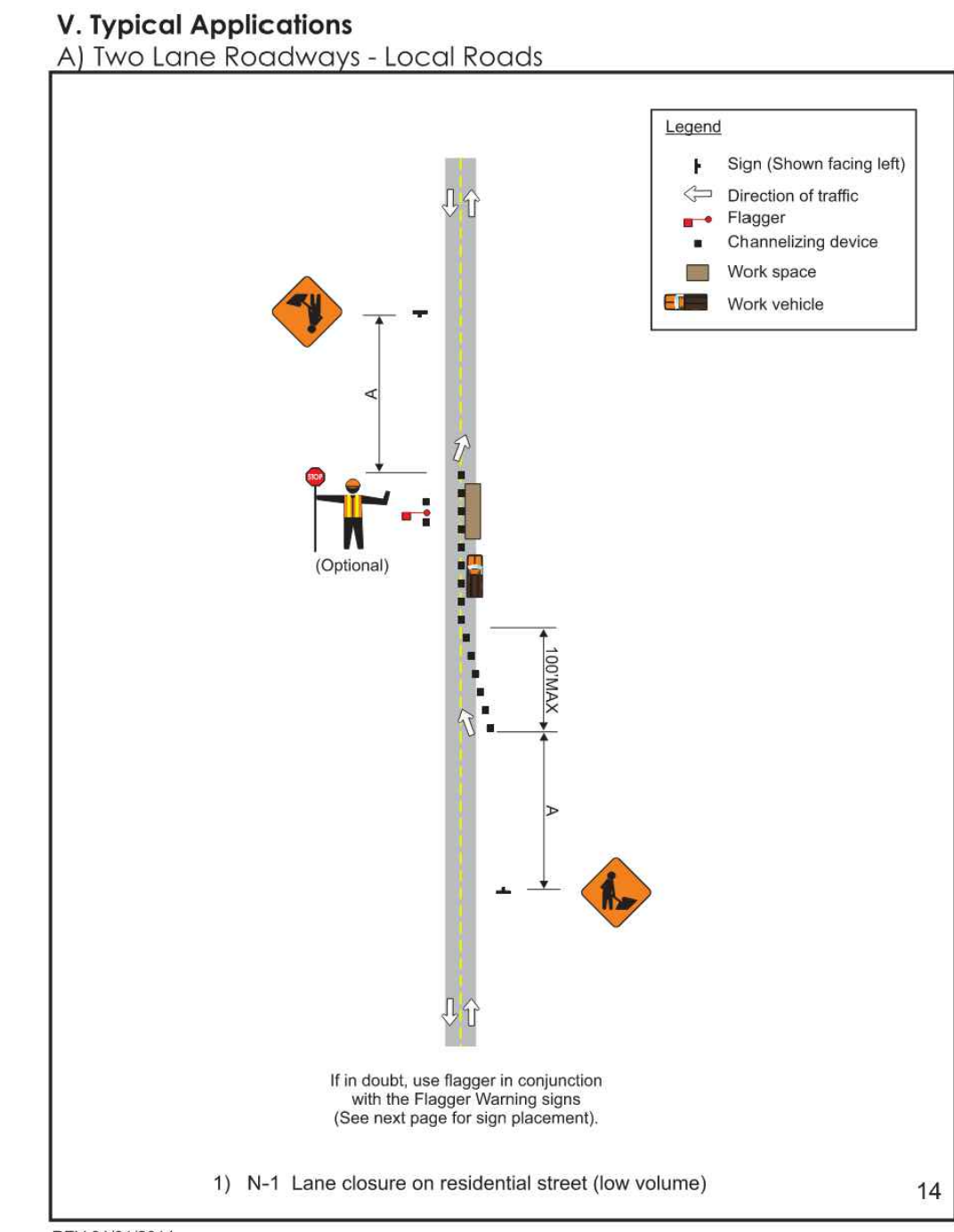
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STANDARD DETAIL
 SIDEWALK
 REVISOR: 01/01/2013
 SHEET 1 OF 1
 PAVEMENT 30
590.30



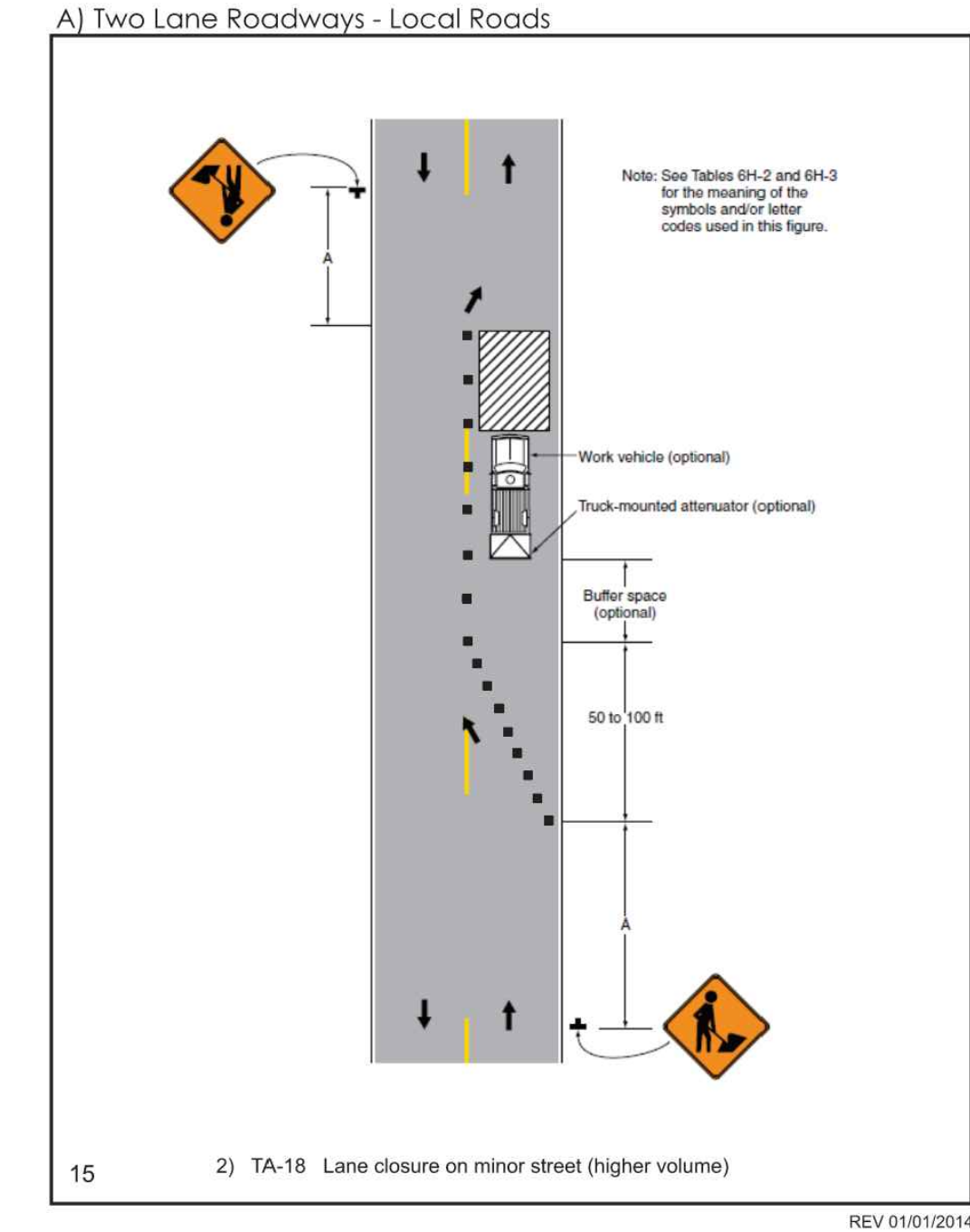
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STANDARD DETAIL
 TYPE B BARRIER CURB
 REVISOR: 01/01/2013
 SHEET 1 OF 1
 PAVEMENT 23
590.23



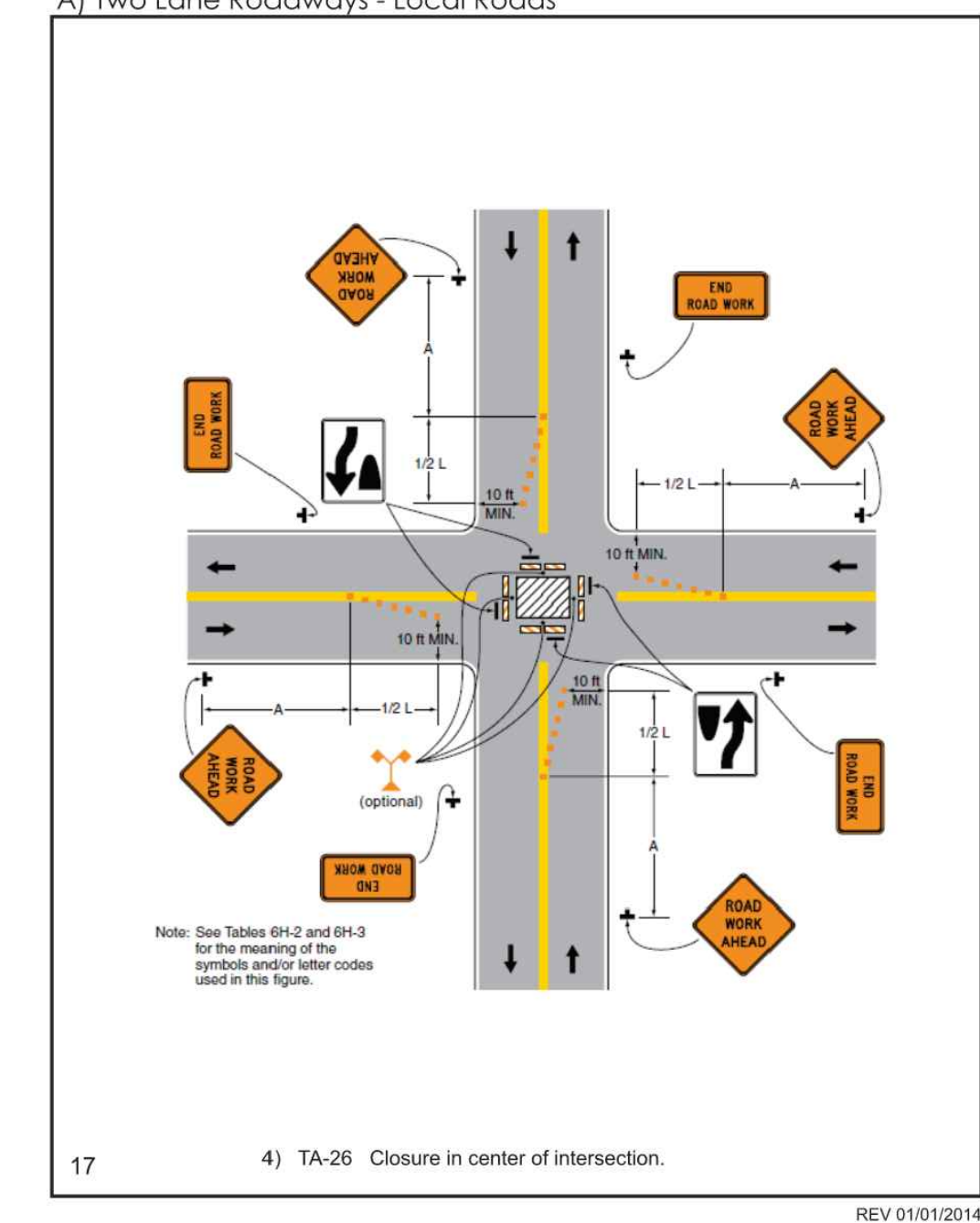
City of Naperville
STANDARD DETAIL
 CURB RAMPS
 REVISOR: 08/01/2018
 SHEET 1 OF 1
 PAVEMENT 32
590.32



REV 01/01/2014
 1) N-1 Lane closure on residential street (low volume) 14



REV 01/01/2014
 2) TA-18 Lane closure on minor street (higher volume) 15



REV 01/01/2014
 4) TA-26 Closure in center of intersection. 17

REVISION RECORD	
NO.	DESCRIPTION
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2	NO REVISION THIS SHEET

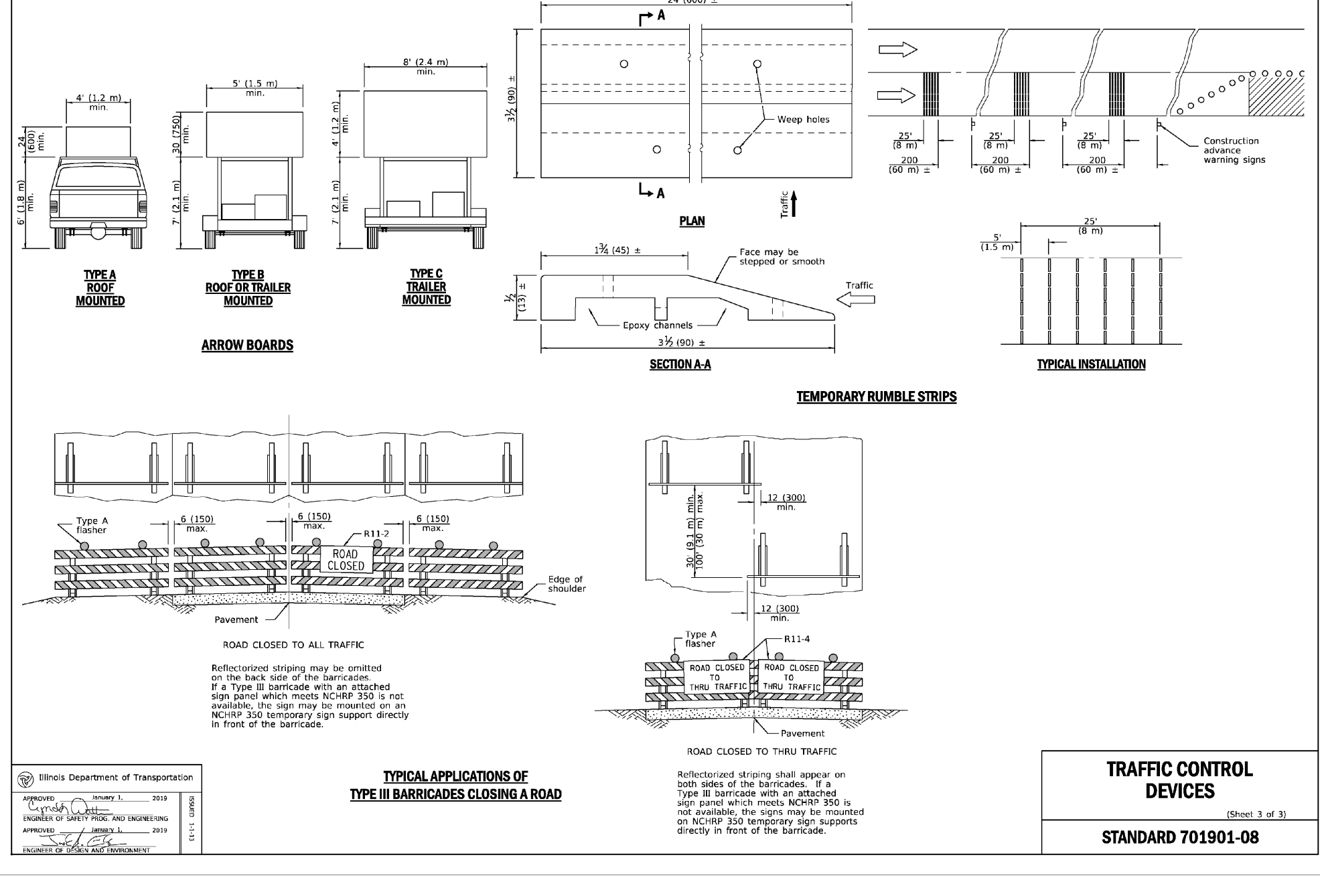
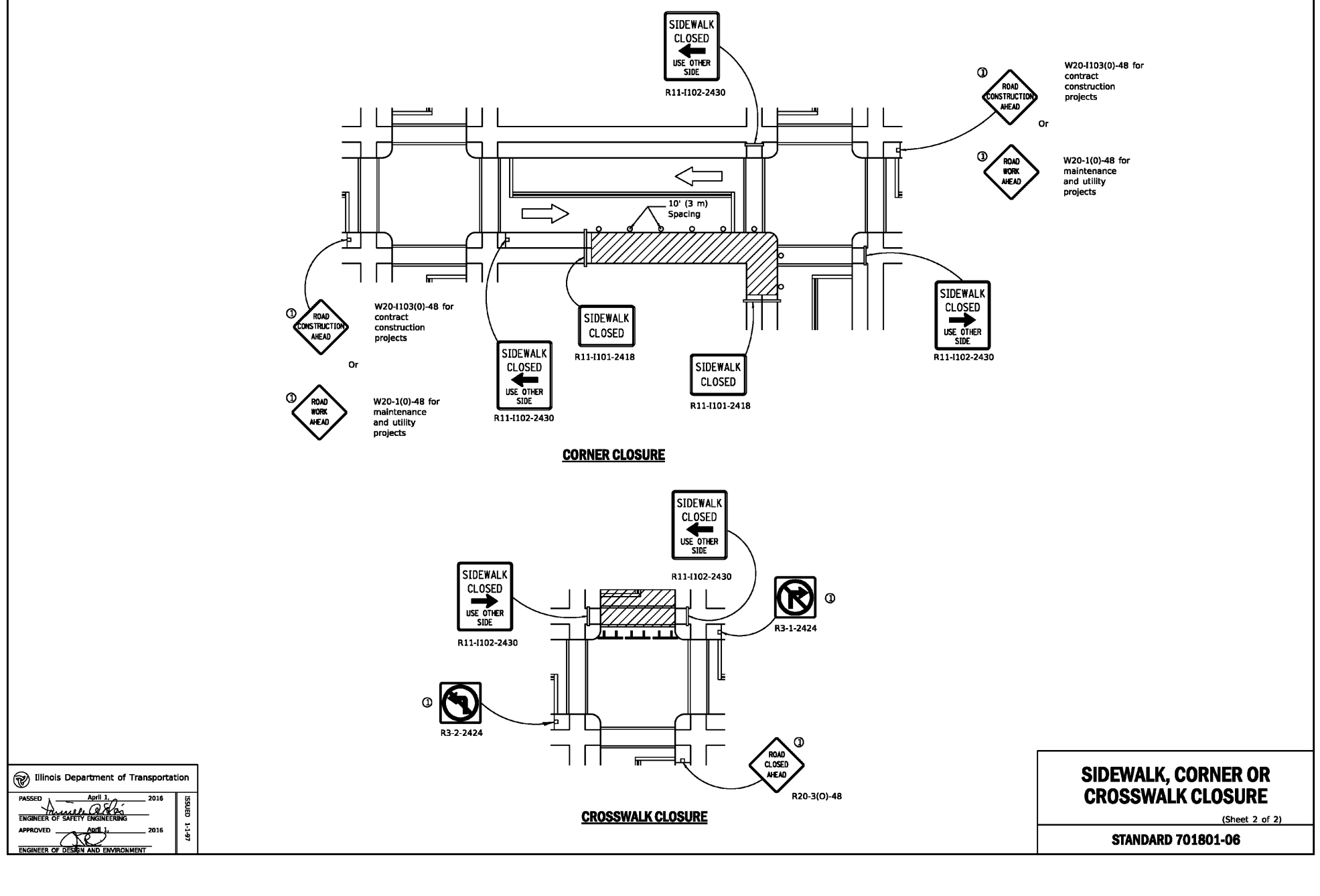
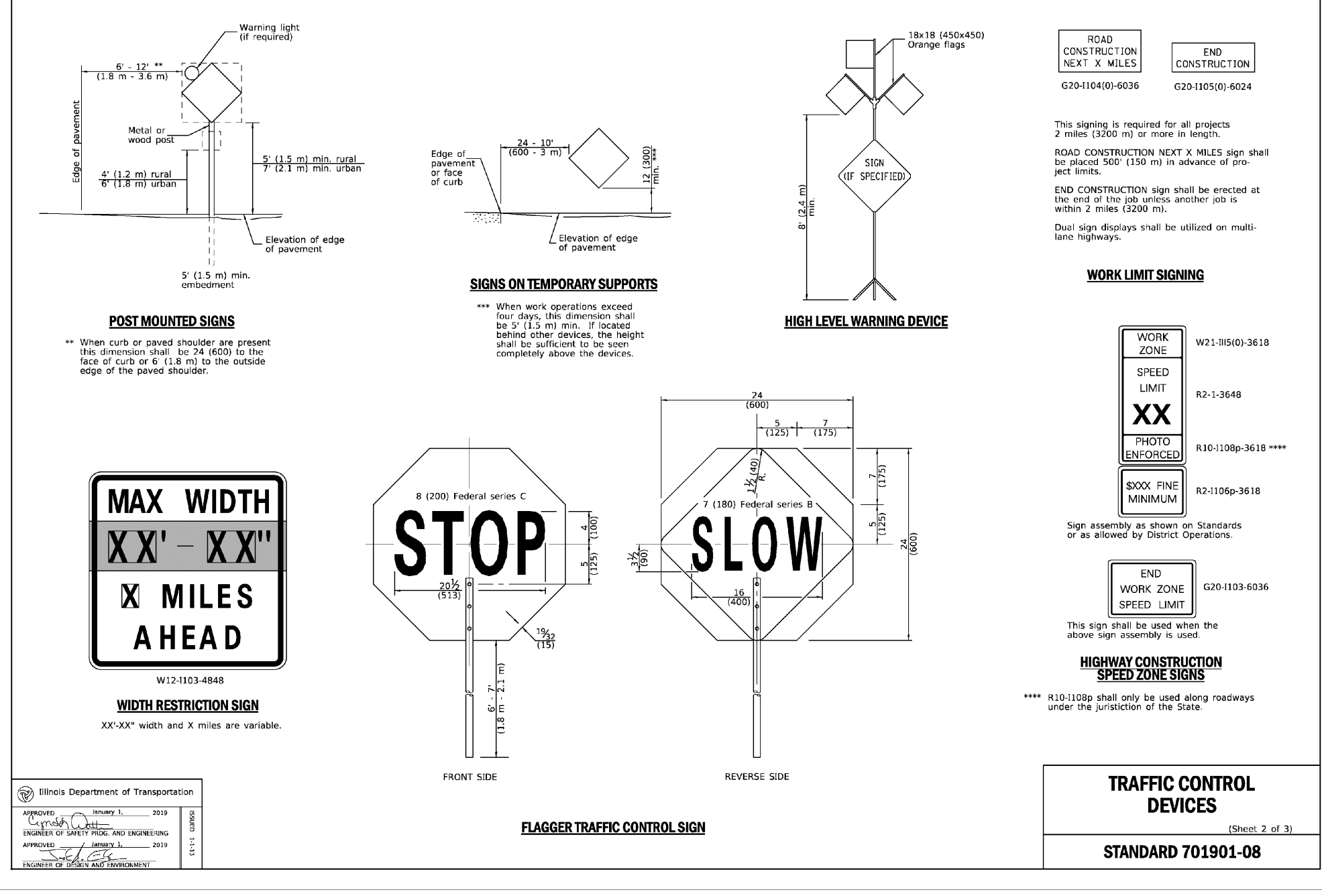
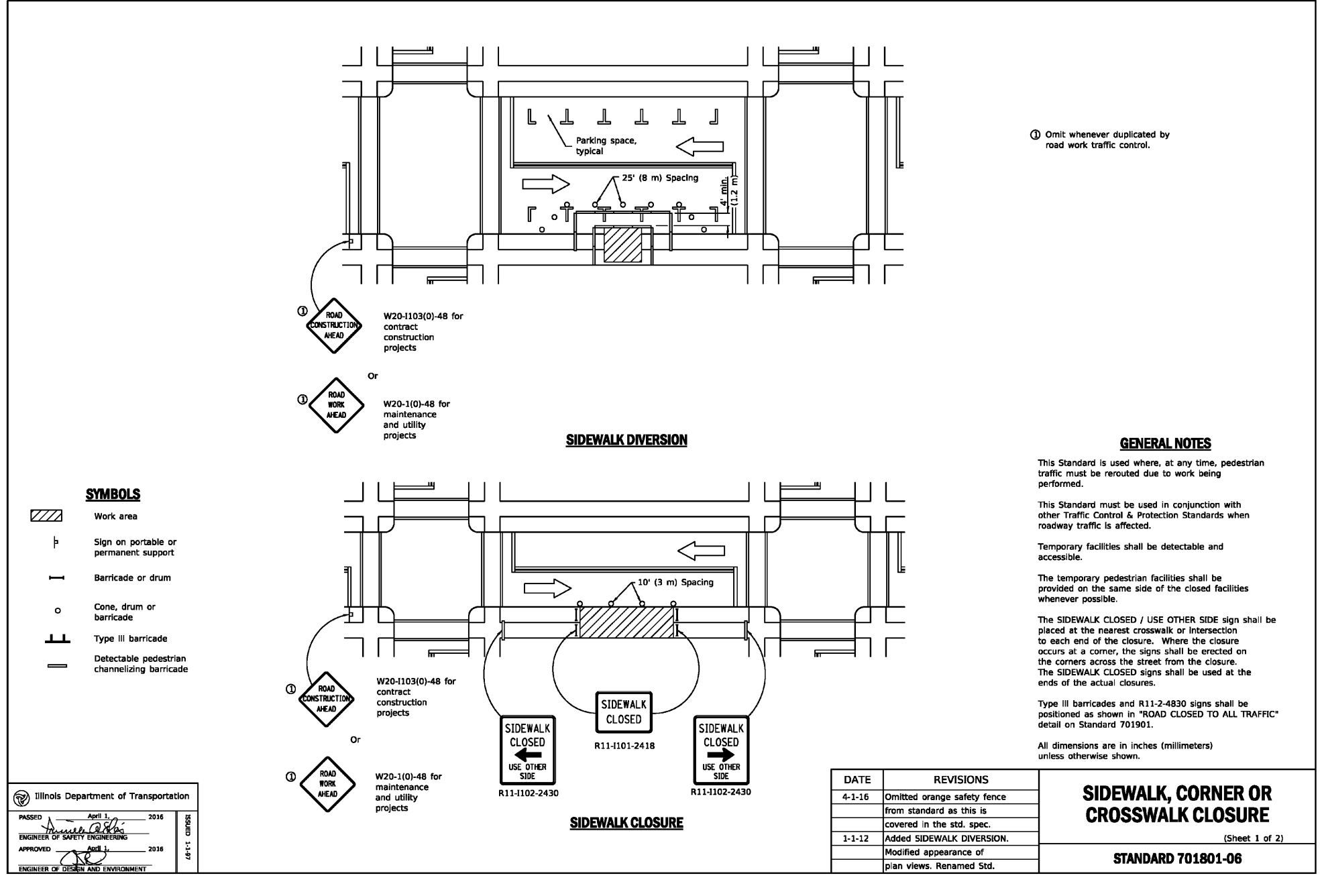
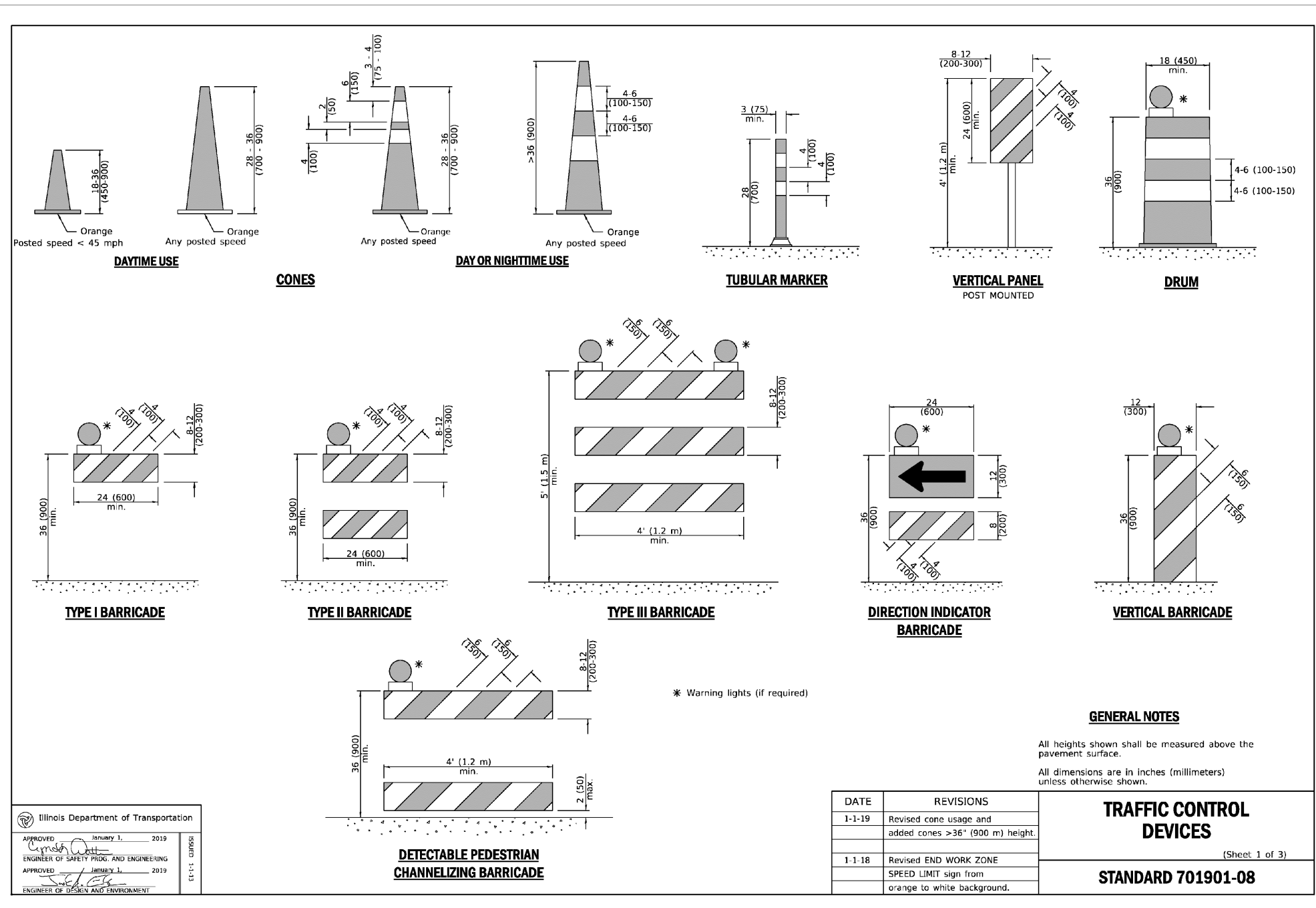
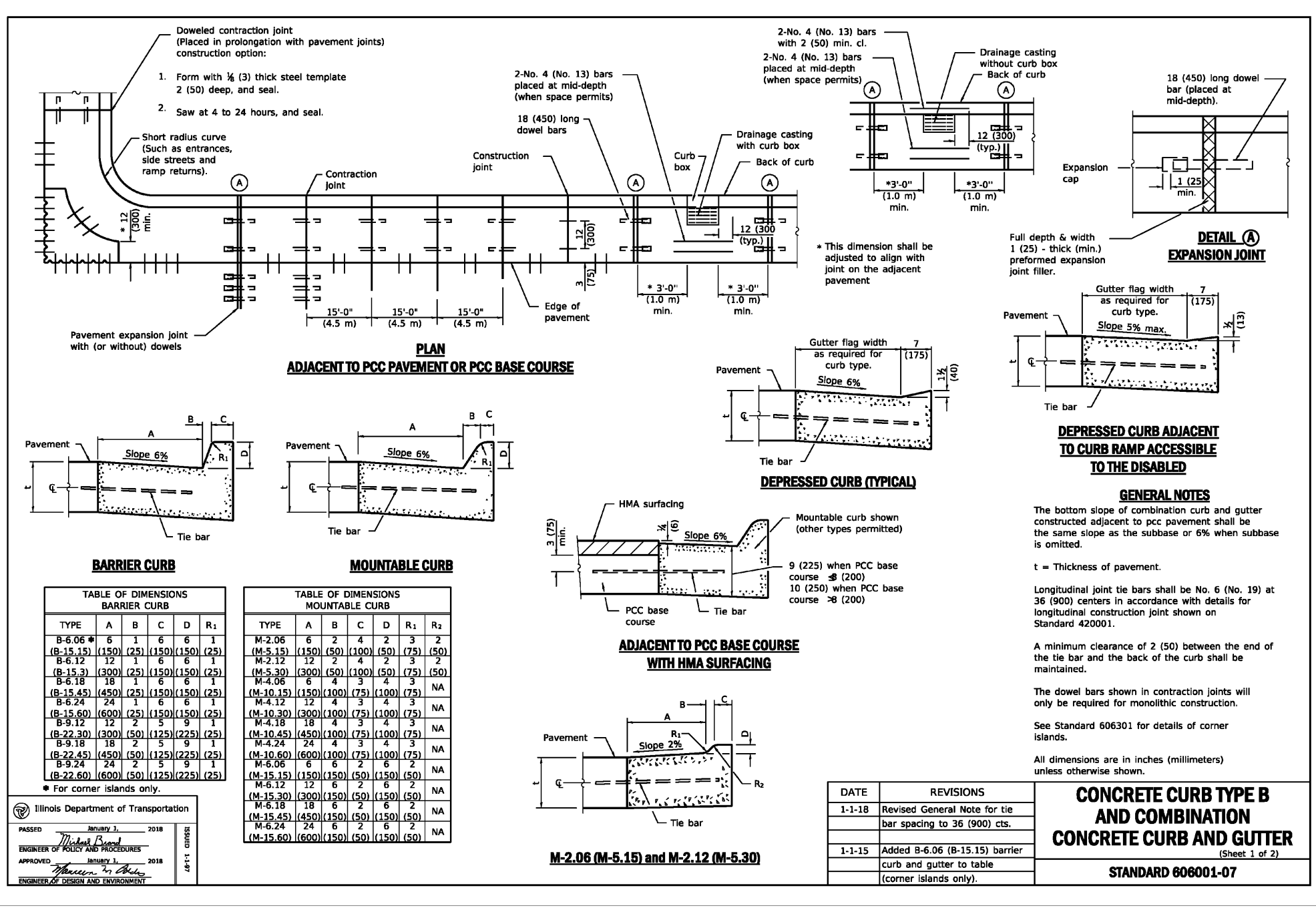
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LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAN BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

DETAILS - 4
 DATE: APRIL 10, 2024
 DRAWN BY: JGC
 PROJECT NO: 341-027
 APPROVED BY: JGC

DRAWING NO:
C803
 SHEET 14 OF 16

A:\140-2001\141-0271-0000\141-0271-0000-0000-0000\141-0271-0000-0000-0000.dwg (15/06/2024 - mwp) - LP: 6/9/2024 8:50 AM



NO.	DESCRIPTION	QUANTITY	UNIT
1	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
2	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
3	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
4	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
5	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
6	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
7	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
8	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
9	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
10	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
11	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
12	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
13	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
14	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
15	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
16	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
17	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
18	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
19	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
20	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
21	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
22	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
23	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
24	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
25	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
26	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
27	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
28	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
29	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET
30	1" x 1" x 1/2" STAINLESS STEEL	10	LINEAL FEET

StormTrap
 1200 WESTWAY PARKWAY
 NAPERVILLE, IL 60563
 (630) 941-6048 / (312) 339-5347

ENGINEER INFORMATION:
 Civil & Environmental Consultants, Inc.
 Naperville, IL

PROJECT INFORMATION:
 The Laurel Lot 2 and 3

CURRENT ISSUE DATE:
 04/24/2024

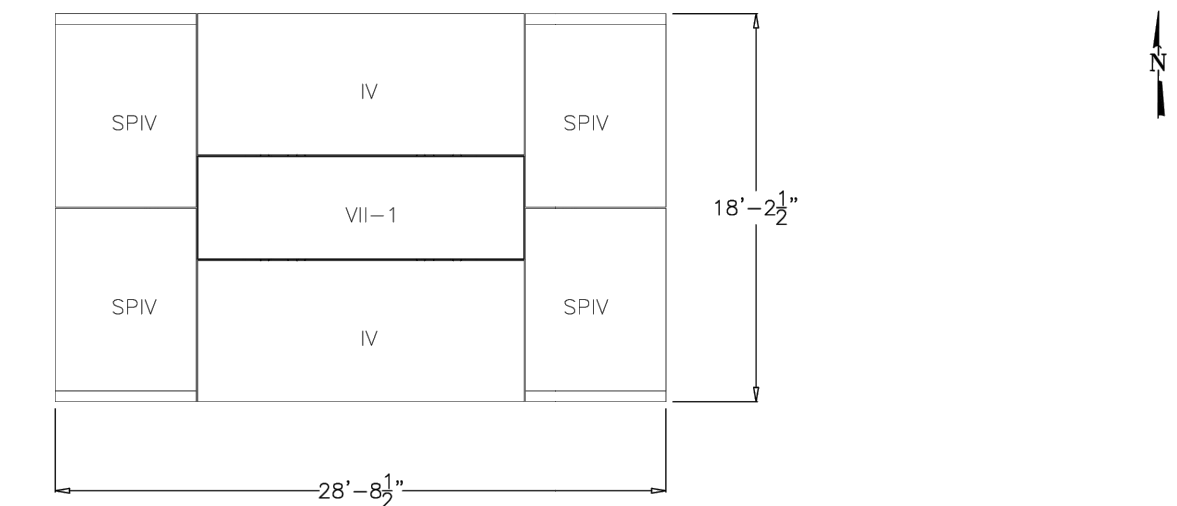
ISSUED FOR:
 PRELIMINARY

REV. DATE: ISSUED FOR:

SCALE:
 1" = 1'-0"

SHEET TITLE:
 SINGLETRAP SYSTEM LAYOUT

SHEET NUMBER:
 2.0



StormTrap INSTALLATION SPECIFICATION

- StormTrap shall be installed in accordance with ASTM D1527 (Standard Practice for Installation of Underground Precast Concrete Utility Structures). The following additional notes and exceptions are provided for expansion of the minimum of these items. These items do not preclude the installing contractor from following ASTM D1527 in its entirety and incorporating all appropriate measures. The installing contractor owns and is responsible for the StormTrap system upon removal of the modules from the construction site. The contractor shall provide a final report to the owner upon completion of the project. The contractor shall provide a final report to the owner upon completion of the project.
- It is the responsibility of the installing contractor to ensure that proper/adequate excavation is used to set/install the modules.
- The aggregate foundation has been designed based on the following assumptions. These assumptions will need to be verified by a geotechnical engineer which will need to be completed by the owner.
- A qualified geotechnical engineer will be employed, by owner, to provide assistance in evaluating the existing soil. The geotechnical engineer will be responsible for providing the owner with a geotechnical report. The geotechnical report shall include the following information:
 - Soil classification and bearing capacity.
 - Soil moisture content and plasticity index.
 - Soil strength and compressive strength.
 - Soil permeability and groundwater table.
 - Soil settlement and consolidation characteristics.
 - Soil erosion and scour potential.
 - Soil frost action and freeze/thaw cycles.
 - Soil chemical and mineralogical composition.
 - Soil pH and corrosiveness.
 - Soil radon gas concentration.
 - Soil seismicity and liquefaction potential.
 - Soil geotechnical engineering recommendations.
- The contractor shall remove any and all expandable or collapsible soils at the direction of a qualified geotechnical engineer.
- The aggregate foundation shall be installed such that the aggregate extends a minimum of 2'-0" past the outside of the system (see detail 1).
- The aggregate shall be compacted using a vibrating roller with 150' full dynamic force applied to achieve a flat surface.
- Soak, dry and compact the top 4" of the subgrade soils to 95% of the standard dry density and 100% optimum moisture content.
- Aggregate shall be graded within 1/2" of the grade shown on the plans.
- Minimum soil bearing capacity listed on sheet 1.1 shall be verified in field by owner.
- The StormTrap modules shall be placed such that the minimum space between adjacent modules does not exceed 1/2" (see detail 2). If the space exceeds 1/2", the modules shall be reset with appropriate adjustment made to line and grade to provide the space and specification.
- StormTrap modules are not waterproof. A waterproof solution is required. Contact StormTrap for recommendations. The waterproofing application is to be provided and installed by the contractor. The contractor is responsible to ensure that the selected waterproofing solution performs as specified by the manufacturer.
- StormTrap modules and exterior vertical walls between adjacent StormTrap modules shall be sealed with a high modulus, cold-applied, self-adhesive elastomeric resin applied to a window, which provides a permanent sealant. The sealant shall be applied to the exterior wall of the module and the exterior wall of the adjacent module. The sealant shall be applied to the exterior wall of the module and the exterior wall of the adjacent module. The sealant shall be applied to the exterior wall of the module and the exterior wall of the adjacent module.
- Use a brush or wet cloth to thoroughly clean the outside surface at the point where the joint wrap is to be applied.
- A release paper protects the adhesive side of the joint wrap. Place the adhesive side (adhesive side down) around the structure, removing the release paper as you go. Press the joint wrap firmly against the StormTrap module surface when applying.
- If the contractor needs to cancel any shipments, they must do so 48 hours from their scheduled arrival at the job site. If canceled after that time, please contact the project manager.
- The StormTrap modules are damaged in any way from shipping, or after install, StormTrap, must be contacted immediately to assess the damage and to determine whether or not the modules will need to be replaced. If any module arrives at the jobsite damaged or with missing parts, the contractor shall immediately notify StormTrap, in writing. Any damage not reported within the truck is unloaded will be the contractor's responsibility.
- StormTrap modules cannot be altered in any way after manufacturing without written consent from StormTrap.

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 Naperville, IL

PROJECT INFORMATION:
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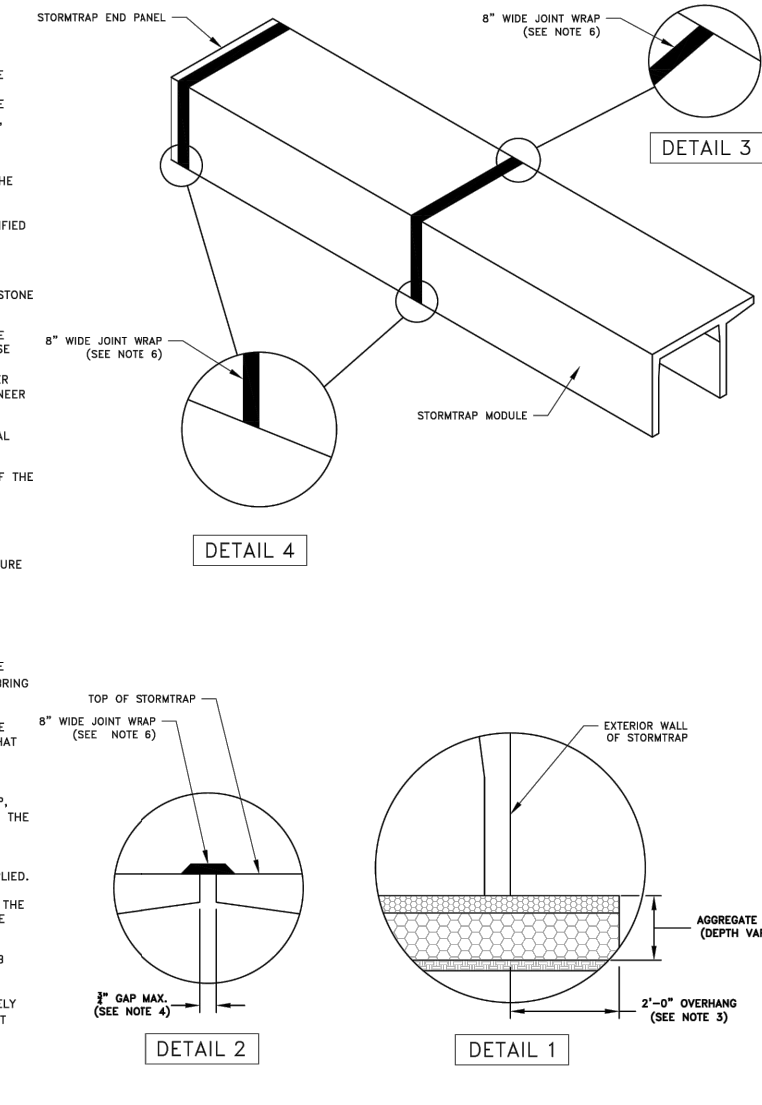
ISSUED FOR:
 PRELIMINARY

REV. DATE: ISSUED FOR:

SCALE:
 1" = 1'-0"

SHEET TITLE:
 SINGLETRAP INSTALLATION SPECIFICATION

SHEET NUMBER:
 3.0



StormTrap MODULE LIFTING SPECIFICATION

- It is the contractor's responsibility to ensure that all (a) chain cables are secured properly to the lifting anchors and in equal tension when lifting the StormTrap module.
- Minimum 2" x 2" chain/cable length to be used to lift StormTrap modules.
- Contractor to ensure minimum lifting angle is 80° from top surface of StormTrap module (see detail).
- It is understood and agreed that at all times during which hoisting and moving equipment is being utilized to the maximum, operation of such equipment shall be in charge of the operator and shall be in full control of the operator. The operator shall be responsible for the safety of the lifting operation. The operator shall be responsible for the safety of the lifting operation. The operator shall be responsible for the safety of the lifting operation.

END PANEL ERECTION/INSTALLATION SPECIFICATION

- End panels will be required to close off open ends of rows.
- End panels will be installed in a 10' x 10' panel layout to open end of module (refer to sheet 2.0 for end panel locations).
- Contractor shall be supplied with end panels to connect panels to adjacent StormTrap module (see connection layout view).
- Once connection hook is attached, lifting equipment will be removed.
- Joint wrap shall be placed around perimeter joint panel (see sheet 3.0).

StormTrap
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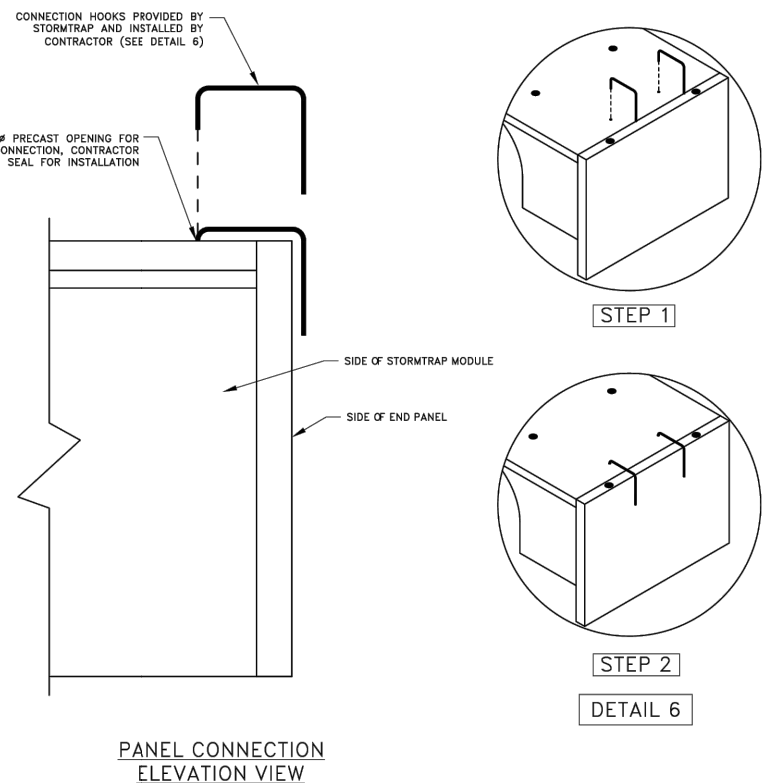
ISSUED FOR:
 PRELIMINARY

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 SINGLETRAP INSTALLATION SPECIFICATION

SHEET NUMBER:
 3.1



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 NAPERVILLE, IL 60563
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 Naperville, IL

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 The Laurel Lot 2 and 3

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SCALE:
 1" = 1'-0"

SHEET TITLE:
 SINGLETRAP BACKFILL SPECIFICATION

SHEET NUMBER:
 4.0

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PROJECT INFORMATION:
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ISSUED FOR:
 PRELIMINARY

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SCALE:
 1" = 1'-0"

SHEET TITLE:
 PIPE / ACCESS OPENING SPECIFICATION

SHEET NUMBER:
 5.0

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 Naperville, IL

PROJECT INFORMATION:
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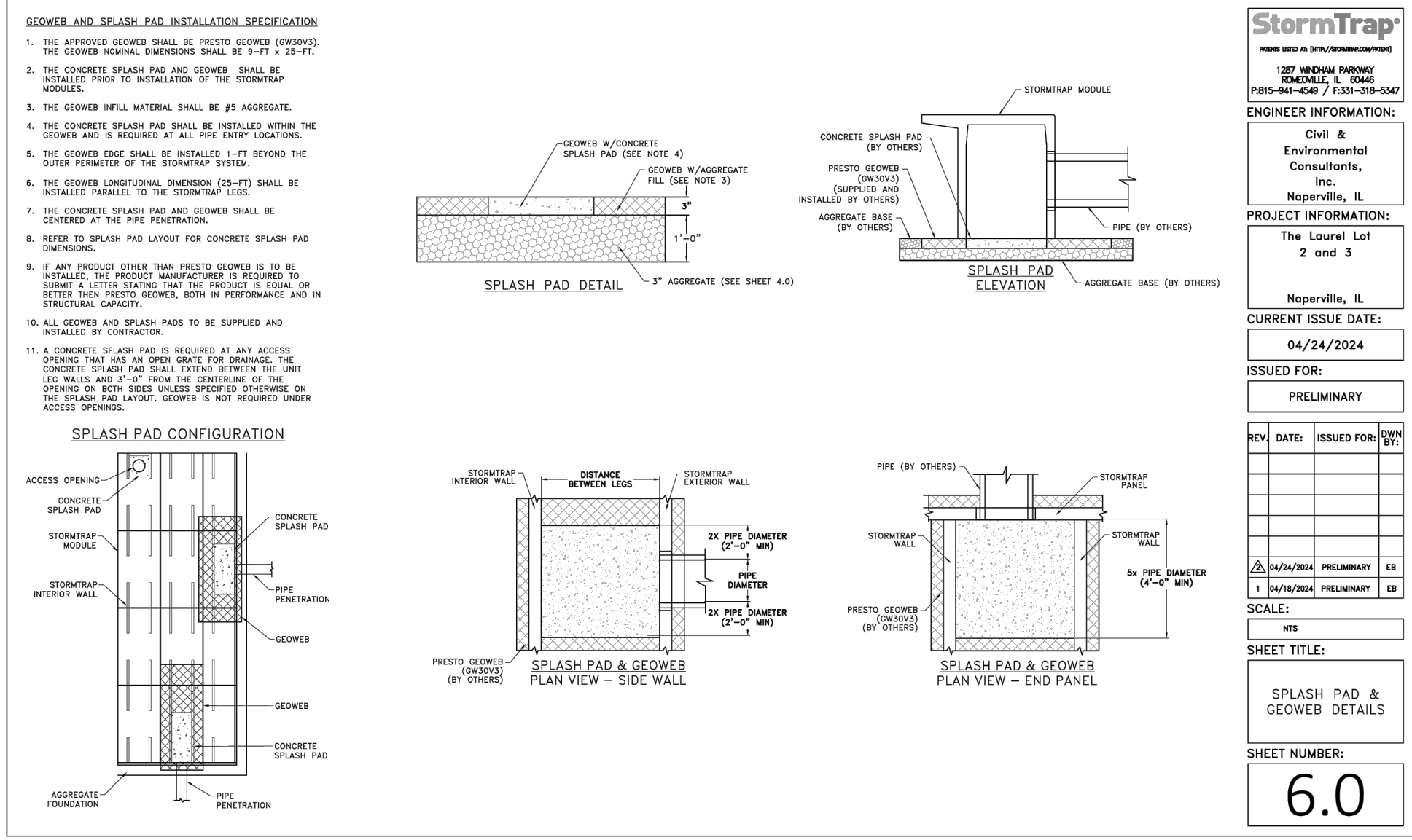
ISSUED FOR:
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SCALE:
 1" = 1'-0"

SHEET TITLE:
 SPLASH PAD & GEOWEB DETAILS

SHEET NUMBER:
 6.0



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 Naperville, IL

PROJECT INFORMATION:
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SCALE:
 1" = 1'-0"

SHEET TITLE:
 SINGLETRAP MODULE TYPES

SHEET NUMBER:
 7.0

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 04/24/2024

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SCALE:
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 PIPE / ACCESS OPENING SPECIFICATION

SHEET NUMBER:
 5.0

StormTrap
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ENGINEER INFORMATION:
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SCALE:
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SHEET TITLE:
 SPLASH PAD & GEOWEB DETAILS

SHEET NUMBER:
 6.0



TRIFOX PROPERTIES, LLC
LOTS 2 AND 3 THE LAUREL SUBDIVISION
204 AND 212 WEST VAIL BUREN AVENUE
NAPERVILLE, ILLINOIS 60540

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 www.cecinco.com

Civil & Environmental Consultants, Inc.

REVISION RECORD

NO.	DATE	DESCRIPTION
1	04/24/2024	REVISION PER CITY REVIEW DATED 04/24/2024
2		NO REVISION THIS SHEET