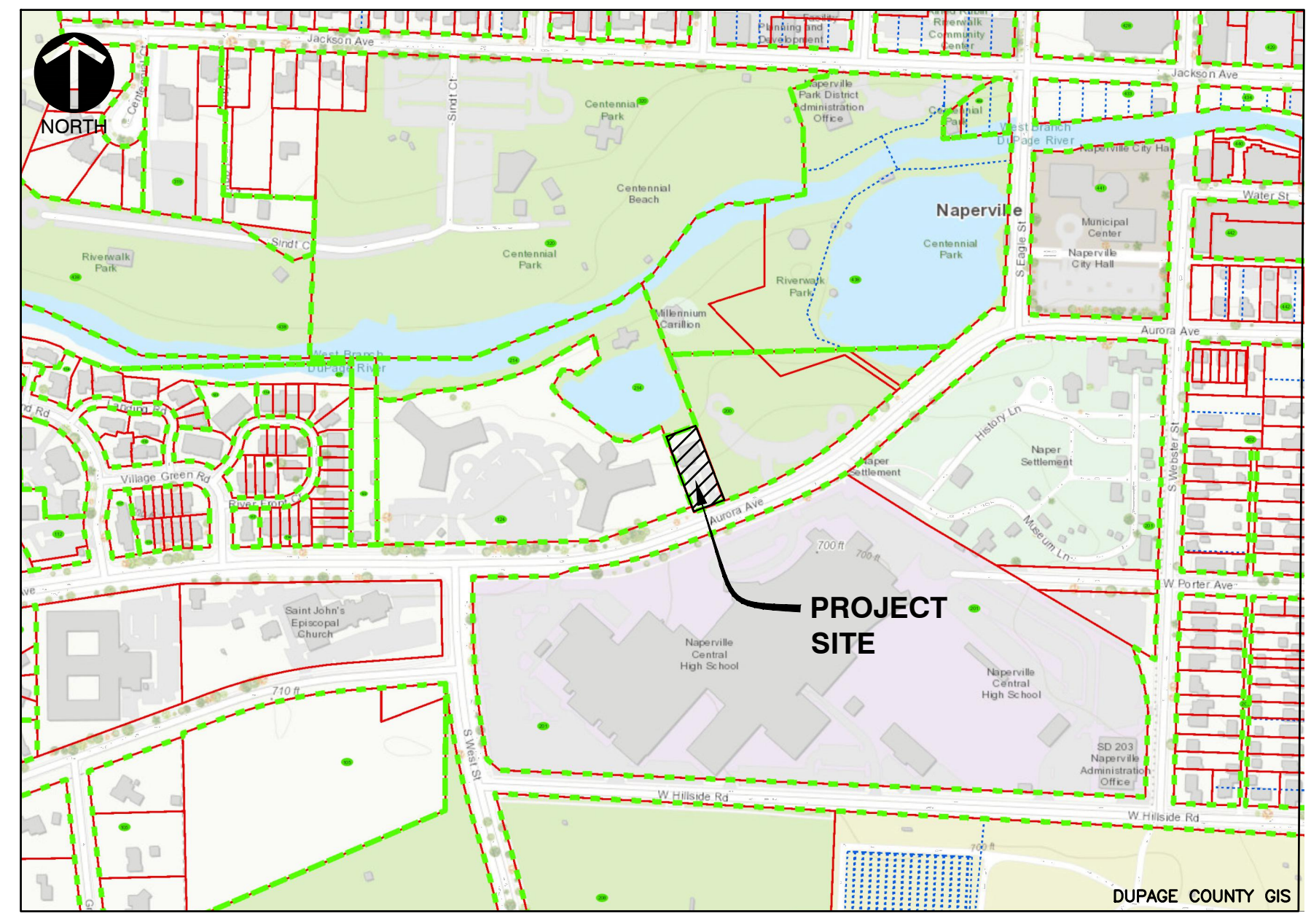


FINAL ENGINEERING PLANS

CHARLESTON ROW III

NAPERVILLE, ILLINOIS 60540

PROPOSED	EXISTING	DESCRIPTIONS
---	---	BOUNDARY PROPERTY LINE
---	---	PROPERTY LINE
---	---	RIGHT-OF-WAY
---	---	UNDERLYING PROPERTY LINE
---	---	CENTER LINE
---	---	EASEMENT LINE
---	---	SETBACK LINE
---	---	SECTION LINE
---715---	---715---	INDEX (MAJOR) CONTOUR
---711---	---711---	INTERMEDIATE (MINOR) CONTOUR
-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
▶	▶	DOWNSPOUT SERVICE LINE
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
000.00TW	000.00TW	TOP OF WALL ELEVATION
000.00BW	000.00BW	BOTTOM OF WALL ELEVATION
000.00TC	000.00TC	TOP OF CURB ELEVATION
000.00FL	000.00FL	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)



SITE MAP
N.T.S.

Sheet Number	Sheet Title
C000	COVER SHEET
C001	SITE SPECIFICATIONS - 1
C002	SITE SPECIFICATIONS - 2
C003	SITE SPECIFICATIONS - 3
C100	EXISTING CONDITIONS
C101	DEMOLITION AND SOIL EROSION & SEDIMENTATION CONTROL PLAN
C200	SITE DIMENSION PLAN
C201	OFFSITE DIMENSION PLAN & NOTES
C300	SITE GRADING PLAN
C301	OFFSITE GRADING PLAN & NOTES
C500	SITE UTILITY PLAN
C501	OFFSITE UTILITY PLAN & NOTES
C502	SANITARY SEWER & WATERMAIN PROFILES
C800	DETAILS - 1
C801	DETAILS - 2
C802	DETAILS - 3
C803	DETAILS - 4
C804	DETAILS - 5

- BENCHMARKS:**
- REFERENCE BENCHMARK:
- NAPERVILLE STATION #1505: BERNTSEN 3D TOP SECURITY MONUMENT IN 6" PVC PIPE WITH BMAC 6 ALUMINUM ACCESS COVER AT THE NORTHEAST CORNER OF WASHINGTON STREET AND AURORA AVENUE.
ELEVATION=672.24 (NAVD88)
- SITE BENCHMARKS:
- 'X' IN BACK OF WALK NORTH SIDE OF AURORA AVENUE ±13' EAST OF EASTERLY PROPERTY LINE OF SUBJECT SITE.
ELEVATION=698.63
 - 'X' IN MIDDLE OF WALK SOUTH SIDE OF AURORA AVENUE ±19' EAST OF WESTERLY PROPERTY LINE OF SUBJECT SITE EXTENDED.
ELEVATION=700.01

811
Know what's below.
Call before you dig.

ILLINOIS LAW REQUIRES ANYONE DIGGING TO CALL JULIE AT 1-800-892-0123 AT LEAST 48 HOURS/TWO WORKING DAYS PRIOR TO THE START OF EXCAVATION AND THE PROJECT MUST BEGIN WITHIN 14 CALENDAR DAYS FROM THE CALL.

PROJECT TEAM

- OWNER**
- CHARLESTON DEVELOPMENT GROUP, INC.**
PO BOX 206
NAPERVILLE, ILLINOIS 60566
PH: (630) 414-1480
CONTACT: ERIK VAN SOMEREN
- ARCHITECT**
- DERRICK ARCHITECTURE**
506 S. GABLES BOULEVARD
WHEATON, ILLINOIS 60187
PH: (847) 606-6460
CONTACT: CHRISTOPHER DERRICK, AIA, NCARB
- 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.
- LANDSCAPE ARCHITECT**
- SIGNATURE DESIGN GROUP, INC.**
132 N. WASHINGTON STREET
NAPERVILLE, ILLINOIS 60540
PH: (630) 305-3980
CONTACT: GREG G. SAGEN, ASLA

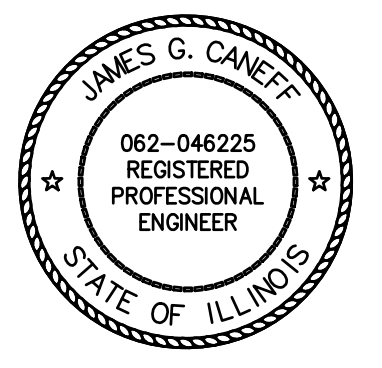
STATE OF ILLINOIS }
COUNTY OF DUPAGE }SS

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, 2023, 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 17TH DAY OF JUNE, 2022.

James G. Caneff

ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 062-046225
REGISTRATION VALID THROUGH NOVEMBER 30, 2023
(NOT VALID WITHOUT ORIGINAL SIGNATURE)



- REFERENCE**
- EXISTING CONDITIONS ARE BASED UPON FIELD OBSERVATIONS MADE ON JANUARY 28, 2022 BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
 - FIELD DATUM: ILLINOIS STATE PLANE NAVD83 (2011) NAVD88 (VRS) GEOID18 - U.S. SURVEY FOOT.
 - 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	06/17/2022	REVERSE PER CITY REVIEW DATED 06/03/22

Civil & Environmental Consultants, Inc.
1230 East Diehl Road, Suite 200 - Naperville, IL 60563
630-963-6026 - 877-963-6026
www.cedinc.com

CHARLESTON DEVELOPMENT GROUP, INC.
CHARLESTON ROW III
445 AURORA AVENUE
NAPERVILLE, IL 60540



COVER SHEET

DATE:	APRIL 26, 2022	DRAWN BY:	JGC
DWG SCALE:	NONE	CHECKED BY:	316-884-AW00
PROJECT NO.:		APPROVED BY:	

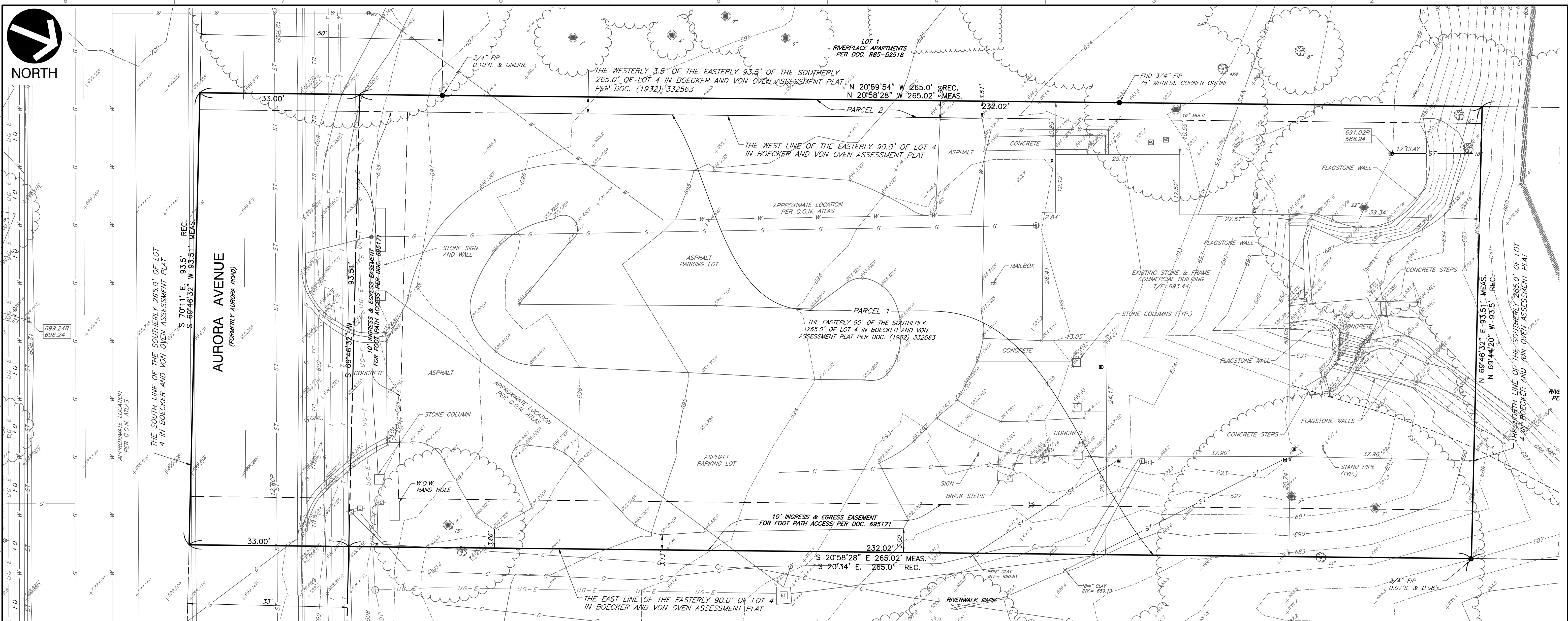
DRAWING NO. **C000**
SHEET 1 OF 18

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CITY PROJECT NO. 22-1000034



NORTH



SITE TOPOGRAPHIC EXHIBIT
SCALE: 1" = 10'

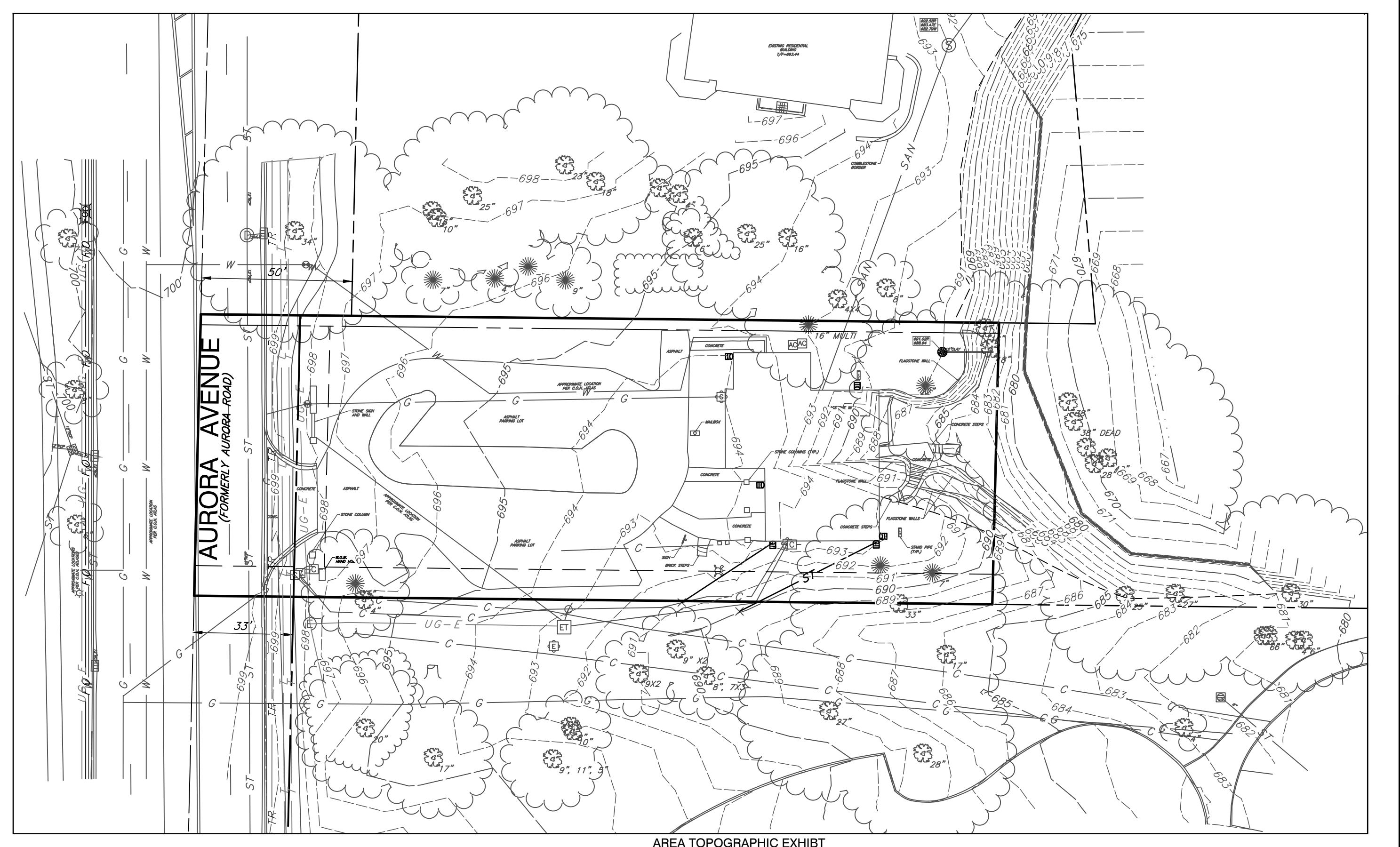
LEGAL DESCRIPTION

PARCEL 1:
THE EASTERLY 90.0 FEET OF THE SOUTHERLY 265.0 FEET OF LOT 4 IN BOECKER AND VON OVEN ASSESSMENT PLAT, A SUBDIVISION OF PART OF THE SOUTH HALF OF SECTION 13 AND THE NORTH HALF OF SECTION 24, ALL IN TOWNSHIP 38 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 31, 1932 AS DOCUMENT 332563, IN DUPAGE COUNTY, ILLINOIS.

PARCEL 2:
THE WESTERLY 3.5 FEET OF THE EASTERLY 93.5 FEET OF THE SOUTHERLY 265.0 FEET OF LOT 4 IN BOECKER AND VON OVEN ASSESSMENT PLAT, BEING A SUBDIVISION OF PARTS OF SECTIONS 13 AND 24, ALL IN TOWNSHIP 38 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED DECEMBER 31, 1932 AS DOCUMENT 332563, IN DUPAGE COUNTY, ILLINOIS.

REFERENCE

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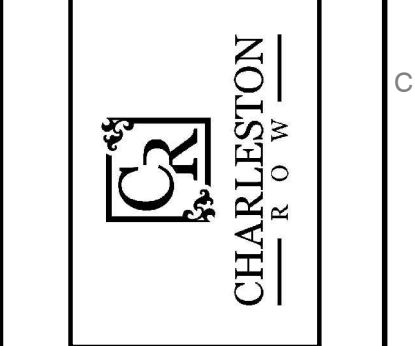


AREA TOPOGRAPHIC EXHIBIT
SCALE: 1" = 30'

REVISION RECORD	
NO.	DATE
1	04/17/2022

C&E
Civil & Environmental Consultants, Inc.
1230 East Diehl Road, Suite 200 - Naperville, IL 60563
630-963-6026 - 877-963-6026
www.ceinc.com

CHARLESTON DEVELOPMENT GROUP, INC.
CHARLESTON ROW III
445 AURORA AVENUE
NAPERVILLE, IL 60540



EXISTING CONDITIONS	
DATE:	APRIL 26, 2022
DRAWN BY:	JGC
AS SHOWN BY:	316-884-AV00
CHECKED BY:	
APPROVED BY:	

DRAFT

A:\170-2001\170-8941-0000\Drawings\170-8941-0000-EXISTING CONDITIONS.mxd (15/06/17/2022 - 9:40am) - LP: 6/17/2022_3:07 PM

DEMOLITION LEGEND

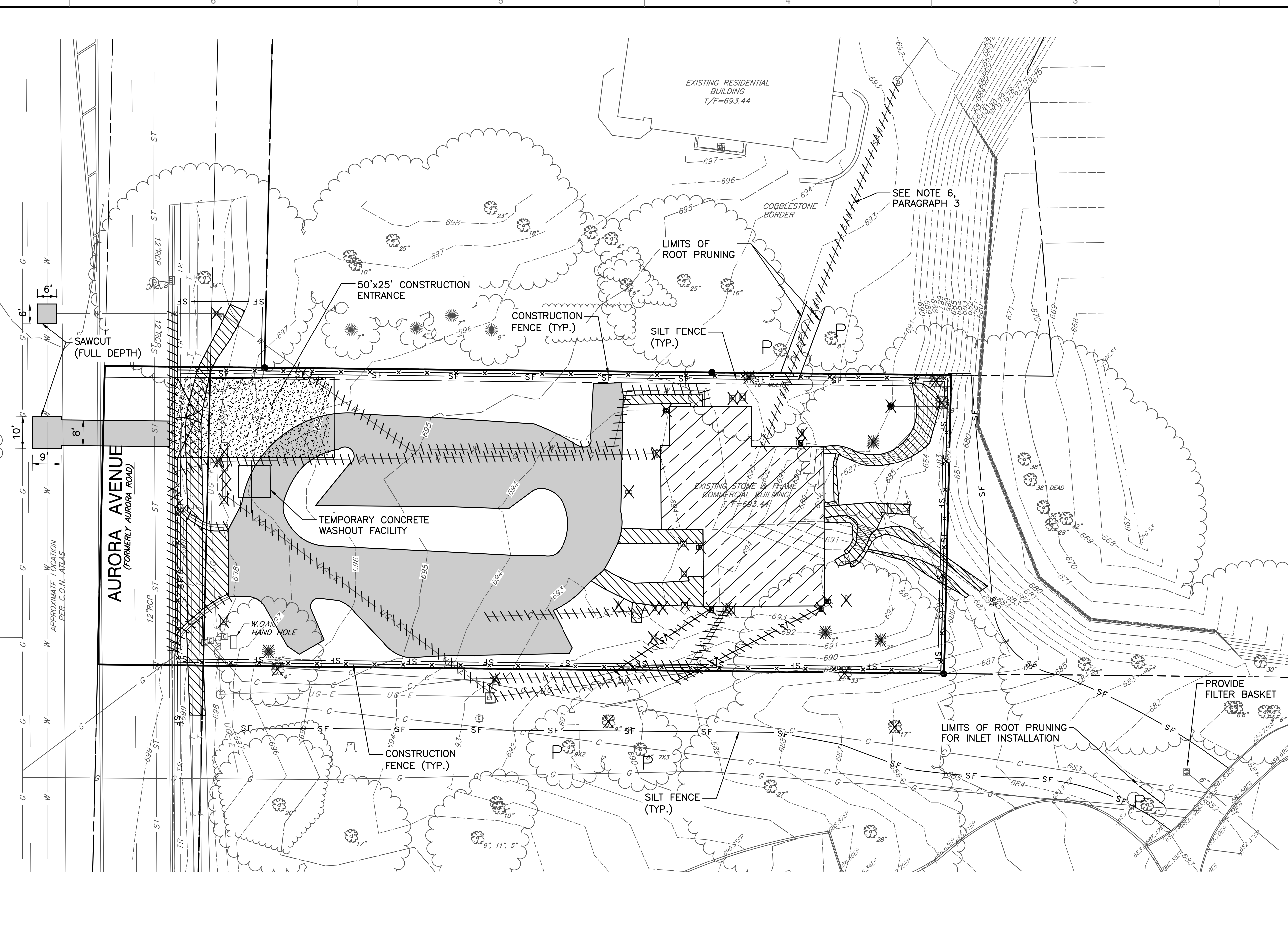
- BITUMINOUS PAVEMENT REMOVAL
- BUILDING REMOVAL
- INDICATES CONCRETE ITEM, RETAINING/STONE WALL OR UTILITY SERVICE TO BE REMOVED
- INDICATES NON-CONCRETE ITEM, STRUCTURE, OR TREE TO BE REMOVED
- TREES TO BE PROTECTED WITH FENCING
- SILT FENCE
- CONSTRUCTION FENCE (CHAIN LINK)

DEMOLITION NOTES:

- 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 OR 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.
- 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.
- 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.
- ALL TREES, LANDSCAPE MATERIALS AND BRUSH WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED. TREE STUMPS AND/OR ROOT BALLS SHALL BE COMPLETELY REMOVED. TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO FINALIZING HIS BID FOR TREE REMOVAL.
- THE DURATION OF THE PUBLIC SIDEWALK CLOSURE SHALL BE KEPT TO A MINIMUM. SIDEWALK CLOSURE SHALL BE IN ACCORDANCE WITH IDOT STANDARD 701801. SIDEWALK CLOSURES SHALL DIRECT PEDESTRIANS TO CROSS AT THE WEST STREET AND ROTARY HILL TRAFFIC SIGNALS.
- THE CONTRACTOR SHALL COORDINATE WITH THE VARIOUS UTILITY COMPANIES TO INSURE THAT SERVICE IS PROVIDED TO ADJACENT PROPERTIES DURING CONSTRUCTION. ALL MATERIAL, EXCEPT THAT BELONGING TO A PUBLIC UTILITY COMPANY OR DENOTED FOR SALVAGE, SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE OWNER(S) OF WATER, ELECTRIC, OR GAS METERS WHEN THE METERS ARE READY FOR REMOVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING ALL UTILITIES IN COMPLIANCE WITH LOCAL REQUIREMENTS. DISCONNECT TRANSFORMERS AS REQUIRED FOR BUILDING DEMOLITION.
- THE EXISTING WATER SERVICE SCHEDULED FOR REMOVAL SHALL INITIALLY BE REMOVED TO THE RIGHT-OF-WAY LINE TO KEEP EXISTING SIDEWALK AND PAVEMENT INTACT. UPON ISSUANCE OF A SITE PERMIT, THE EXISTING WATER SERVICE SCHEDULED FOR REMOVAL SHALL BE CAPPED AT THE MAIN IN ACCORDANCE WITH CITY STANDARDS.
- THE ASSUMED LOCATION OF THE EXISTING 6-INCH SANITARY SEWER SERVICE HAS BEEN SHOWN ON THE PLANS. THE CONTRACTOR SHALL REMOVE THE EXISTING SEWER WHILE INSTALLING THE PROPOSED 8-INCH SANITARY SEWER IN THE SAME HORIZONTAL ALIGNMENT.
- AS SOON AS DEMOLITION WORK HAS BEEN COMPLETED, THE FINAL GRADE OF BACKFILL IN DEMOLITION AREAS SHALL BE COMPACTED PER THE GEOTECHNICAL REPORT TO PRESENT A NEAT, WELL DRAINED APPEARANCE, AND TO PREVENT WATER FROM DRAINING UNNECESSARILY ONTO ADJACENT PROPERTIES.
- 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.
- ALL DEBRIS FROM DEMOLITION SHALL BE HAULED OFF SITE AND DISPOSED OF BY LEGAL MEANS.
- 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.
- 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.
- 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.

REFERENCE

- EXISTING CONDITIONS ARE BASED UPON FIELD OBSERVATIONS MADE ON JANUARY 28, 2022 BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
- FIELD DATUM: ILLINOIS STATE PLANE NAVD83 (2011) NAVD88 (VRS) GEOID18 - U.S. SURVEY FOOT.
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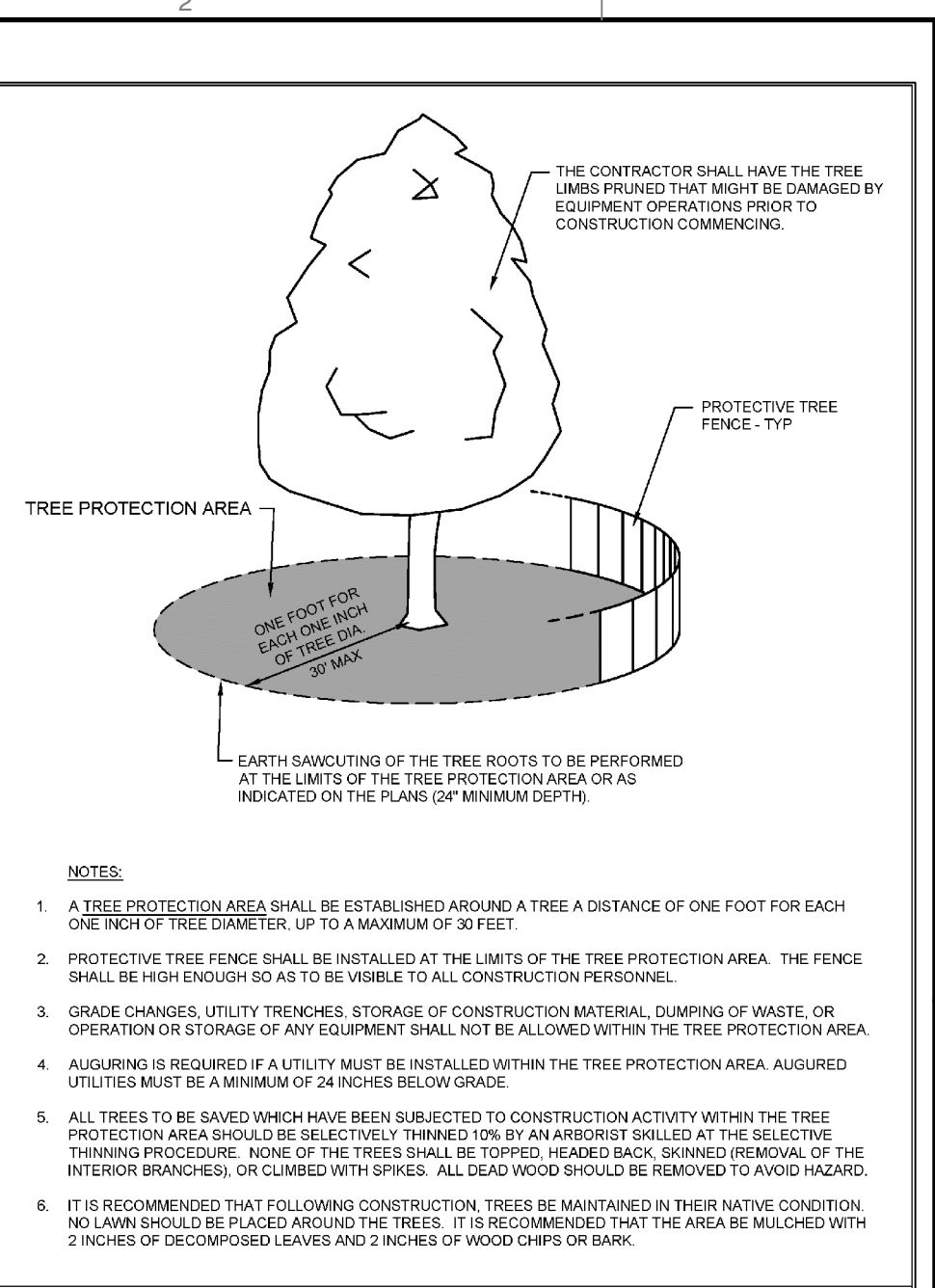
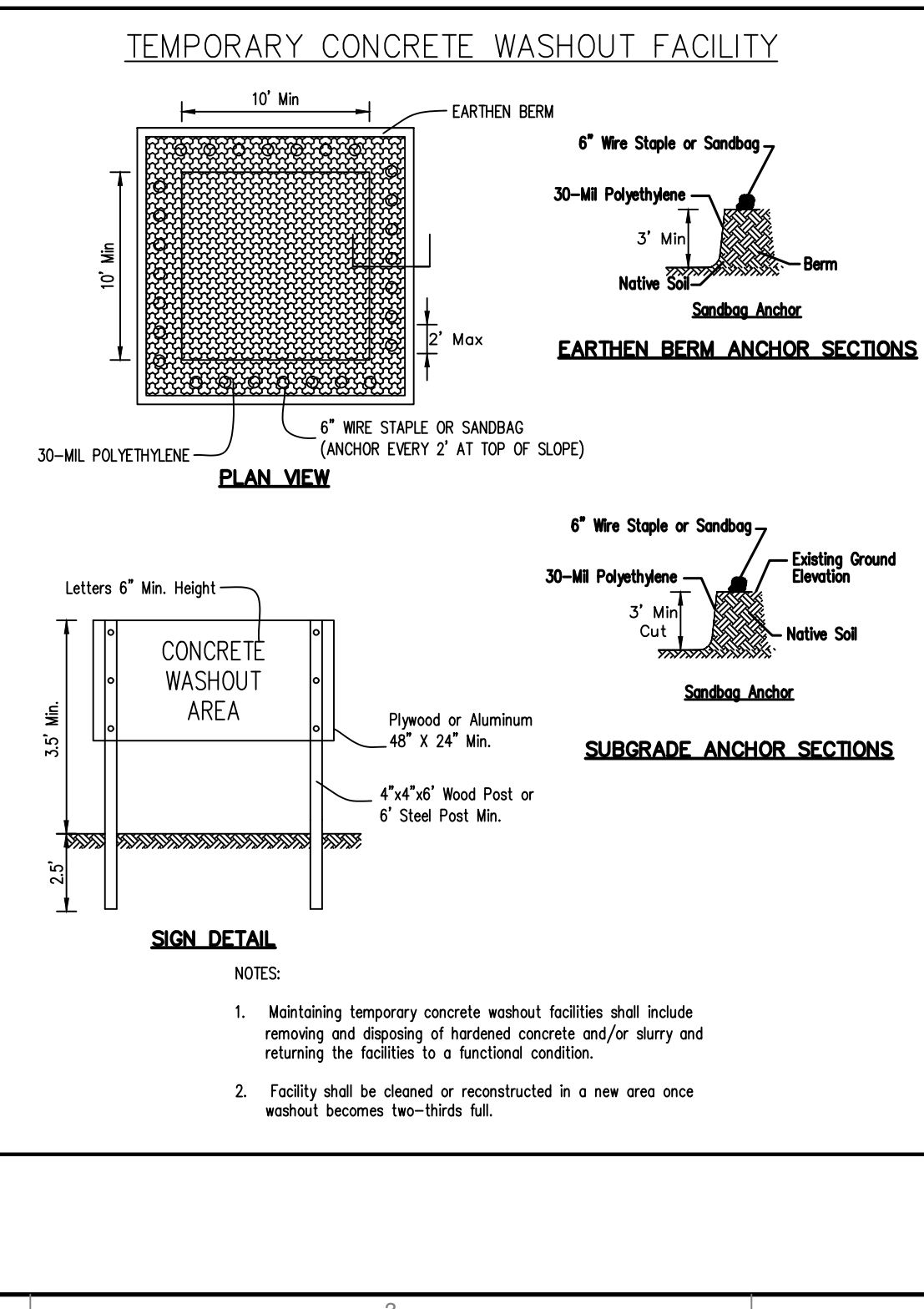
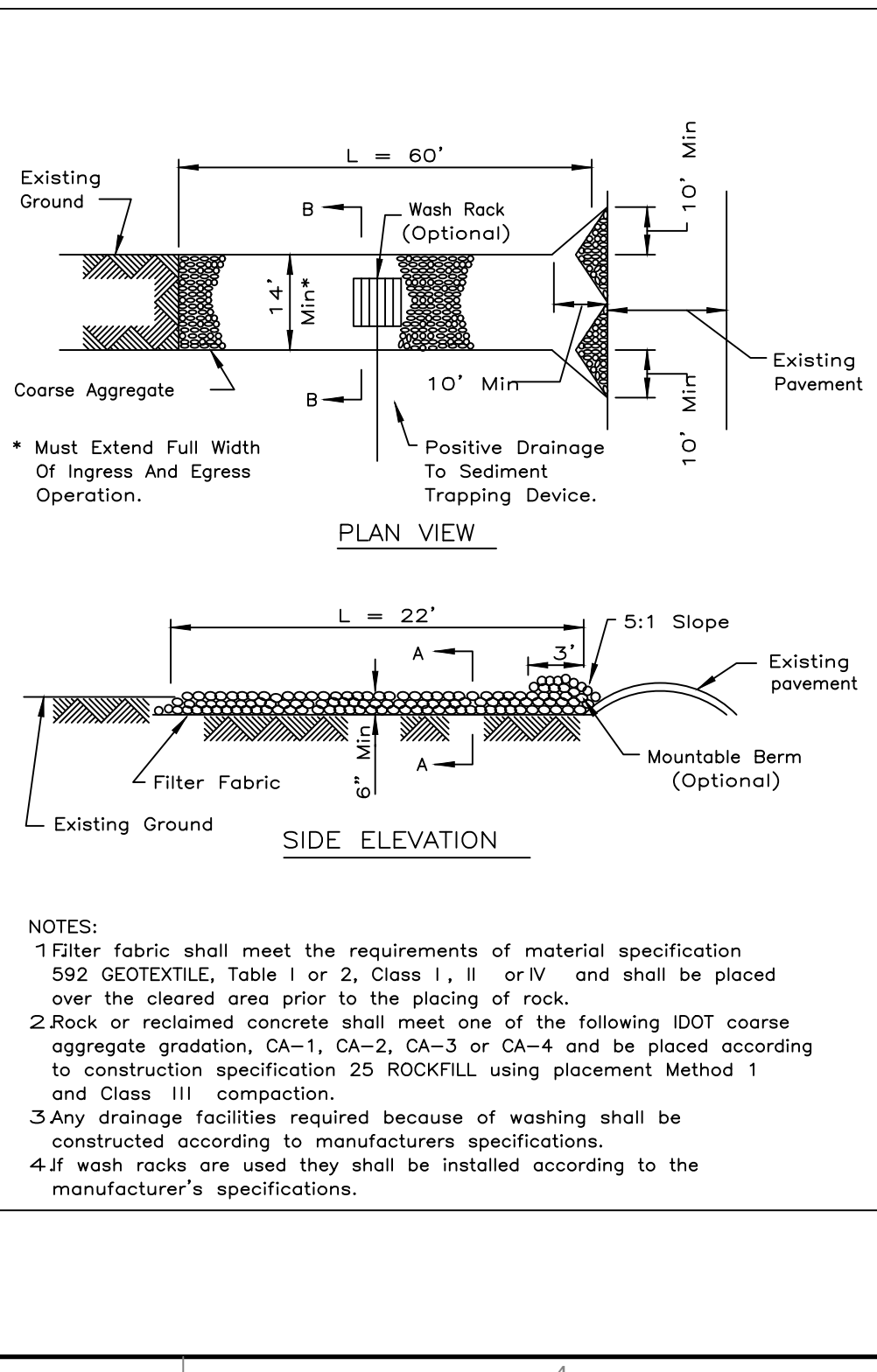


IPP FlexStorm Inlet Filter Specifications

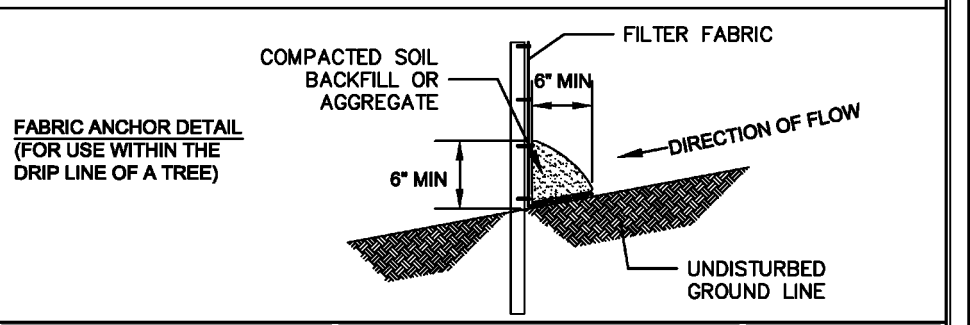
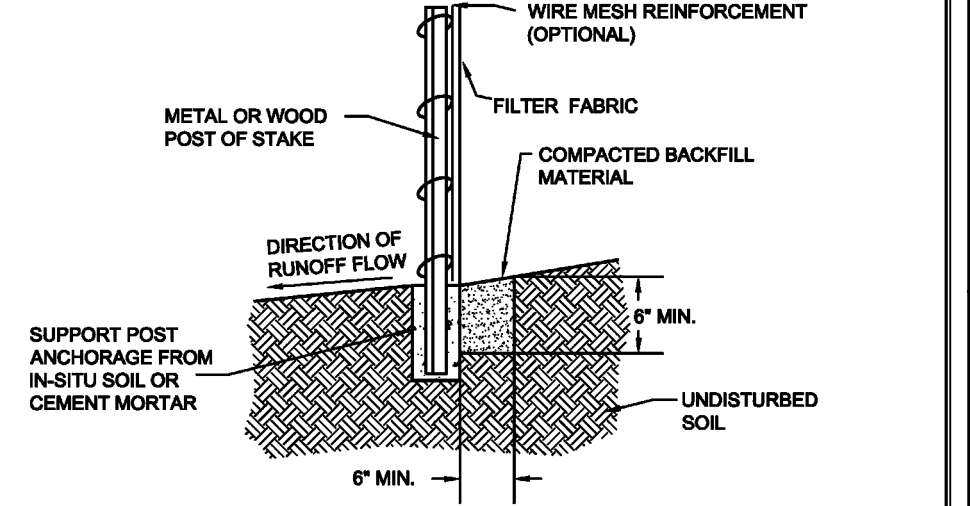
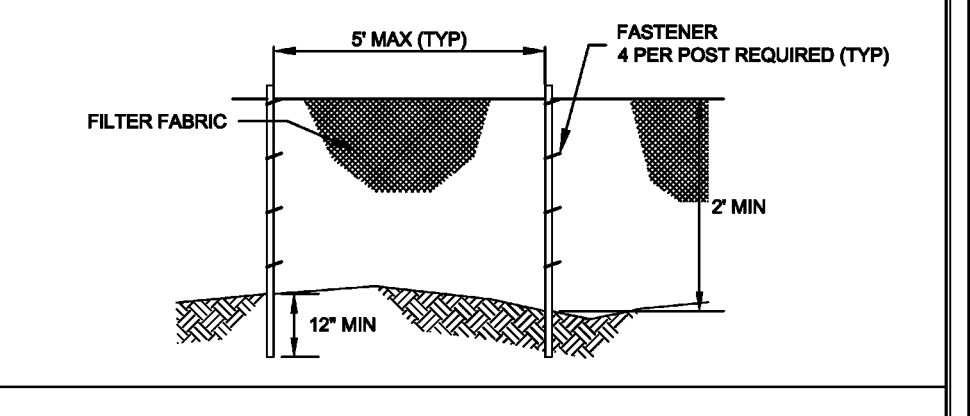
Material Property	Test Method	Value (min ave)
Leak Filter Bag Specs (2 1/2" min void)		
Grab Tensile	ASTM D 4632	100 lbs / 200 lbs
Tensile Strength	ASTM D 4833	65 lbs / 95 lbs
Trapezoidal Tear	ASTM D 4533	45 lbs / 75 lbs
UV Resistance	ASTM D 4835	70% at 500 hrs / 90%
App. Open Size (AOS)	ASTM D 4751	70.0 microns (2.72 mm) / 85 microns (3.35 mm)
Permeability	ASTM D 4891	2.0 / sec. / 2.7 / sec.
Water Flow Rate	ASTM D 4891	1.45 gpm/ft ² / 1.45 gpm/ft ²
Polyester Outer Reinforcement Bag Specifications		
Weight	ASTM D 3776	4.55 oz/sqyd +/- 15%
Thickness	ASTM D 1797	240 +/- 20 mil
Frame Construction		
A36 Structural Steel	ASTM A 36	Tensile Strength = 58,000 psi / Yield Strength = 36,000 psi

INSTALLATION:
 1. REMOVE GRATE.
 2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE.
 3. REPLACE WASTE.

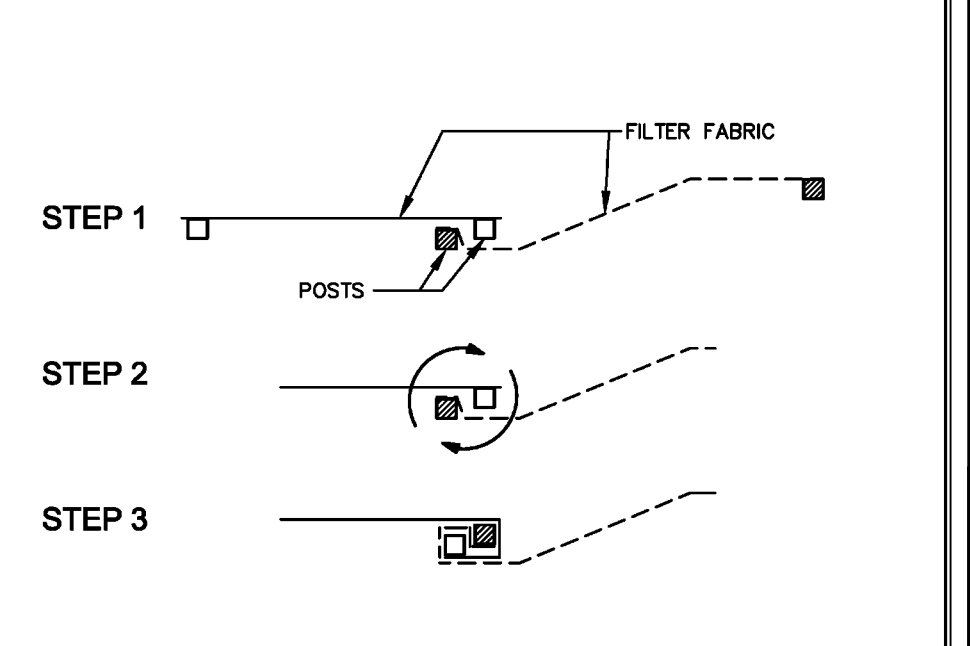
ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC. 1635 TONNE RD. ELK GROVE, IL WWW.INLETFILTERS.COM (847) 222-0690 PH (847) 343-5262 FX SALES@INLETFILTERS.COM



City of Naperville
STANDARD DETAIL
 REVISION: 05/01/2018
 SHEET 1 OF 1
790.10
 LANDSCAPE 10



City of Naperville
STANDARD DETAIL
 REVISION: 01/01/2013
 SHEET 1 OF 2
790.03
 LANDSCAPE 3



City of Naperville
STANDARD DETAIL
 REVISION: 01/01/2013
 SHEET 2 OF 2
790.03
 LANDSCAPE 3



REVISION RECORD

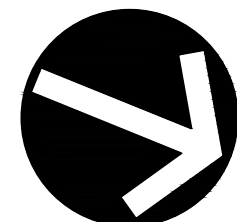
NO.	DATE	DESCRIPTION
1	04/17/2022	REVISION PER CITY REVIEW DATED 04/08/22

Civil & Environmental Consultants, Inc.
 1230 East Diehl Road, Suite 200 - Naperville, IL 60563
 630-963-6026 - 877-963-6026
 www.cecninc.com

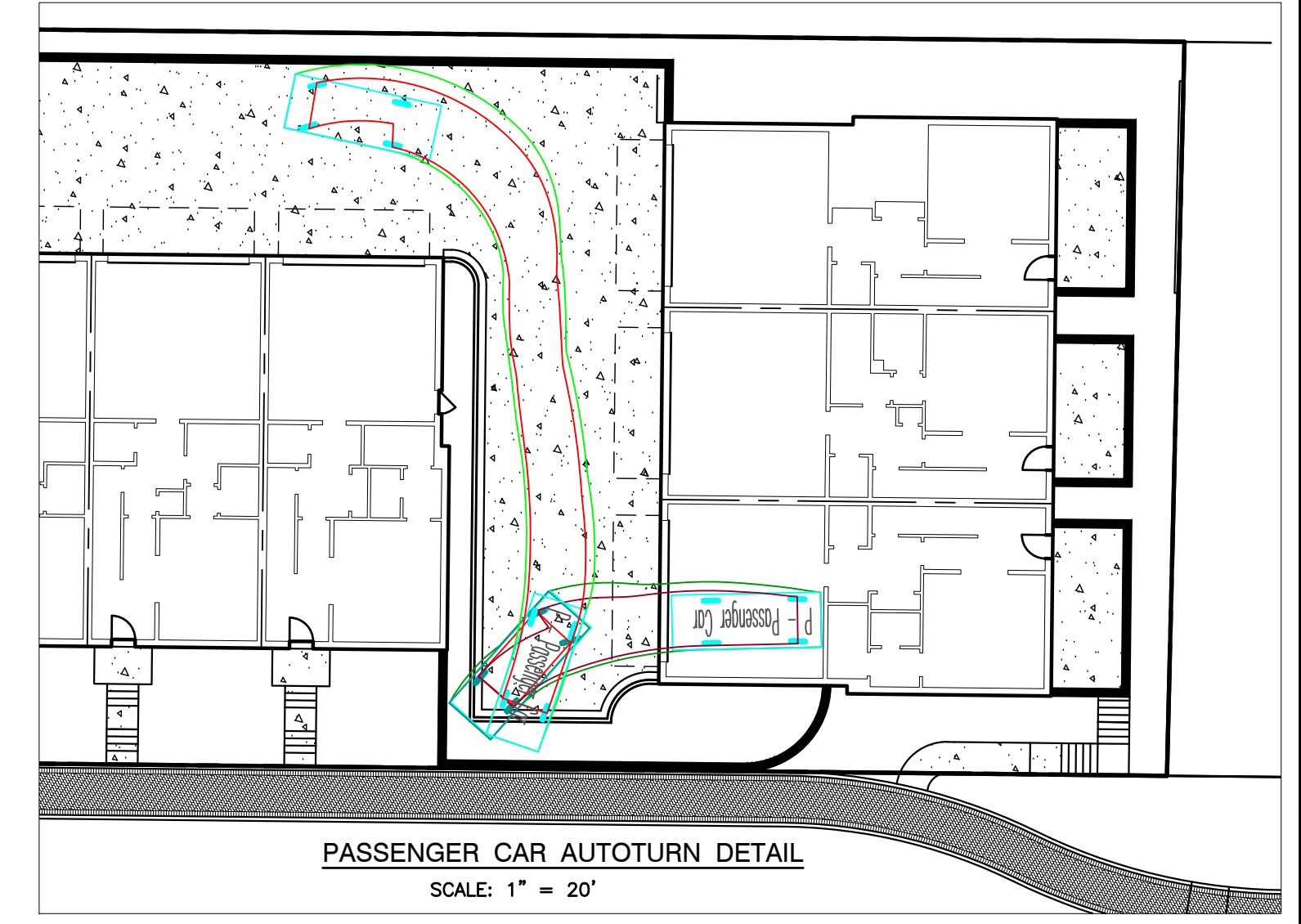
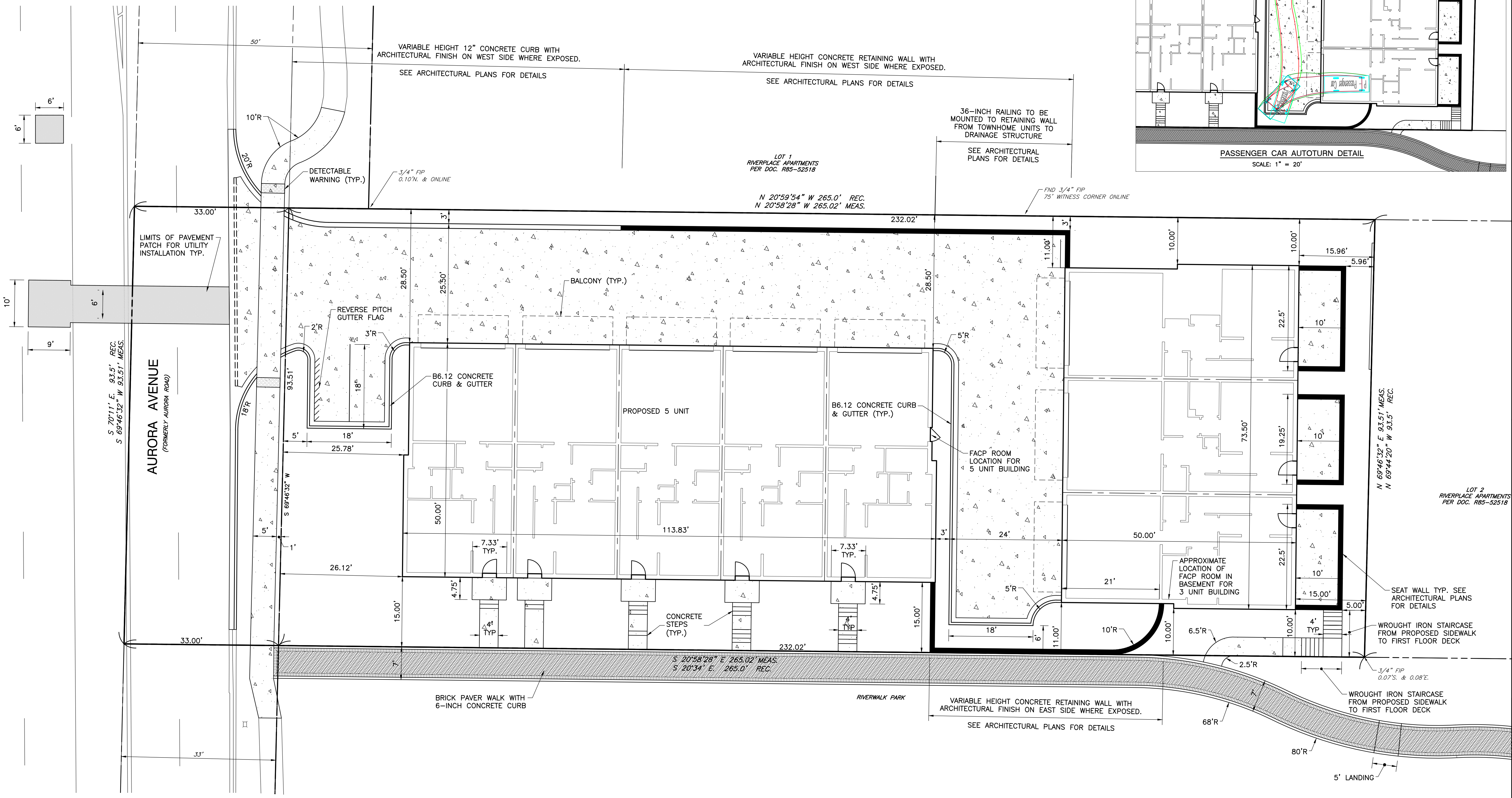
CHARLESTON DEVELOPMENT GROUP, INC.
 CHARLESTON ROW III
 445 AURORA AVENUE
 NAPERVILLE, IL 60540

DEMOLITION AND SOIL EROSION & SEDIMENTATION CONTROL PLAN

DATE: APRIL 26, 2022
 DRAWN BY: SRH
 CHECKED BY: JGC
 PROJECT NO: 316-88A-LV00
 APPROVED BY: DRAFT



NORTH



NO.	DATE	DESCRIPTION
1	04/17/2022	REVISION PER CITY REVIEW DATED 04/03/22

Civil & Environmental Consultants, Inc.
 1230 East Diehl Road, Suite 200 - Naperville, IL 60563
 630-963-6026 - 877-963-6026
 www.cecinc.com

CHARLESTON DEVELOPMENT GROUP, INC.
 CHARLESTON ROW III
 445 AURORA AVENUE
 NAPERVILLE, IL 60540



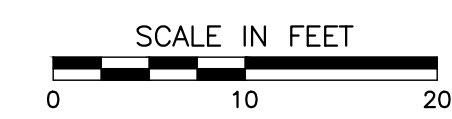
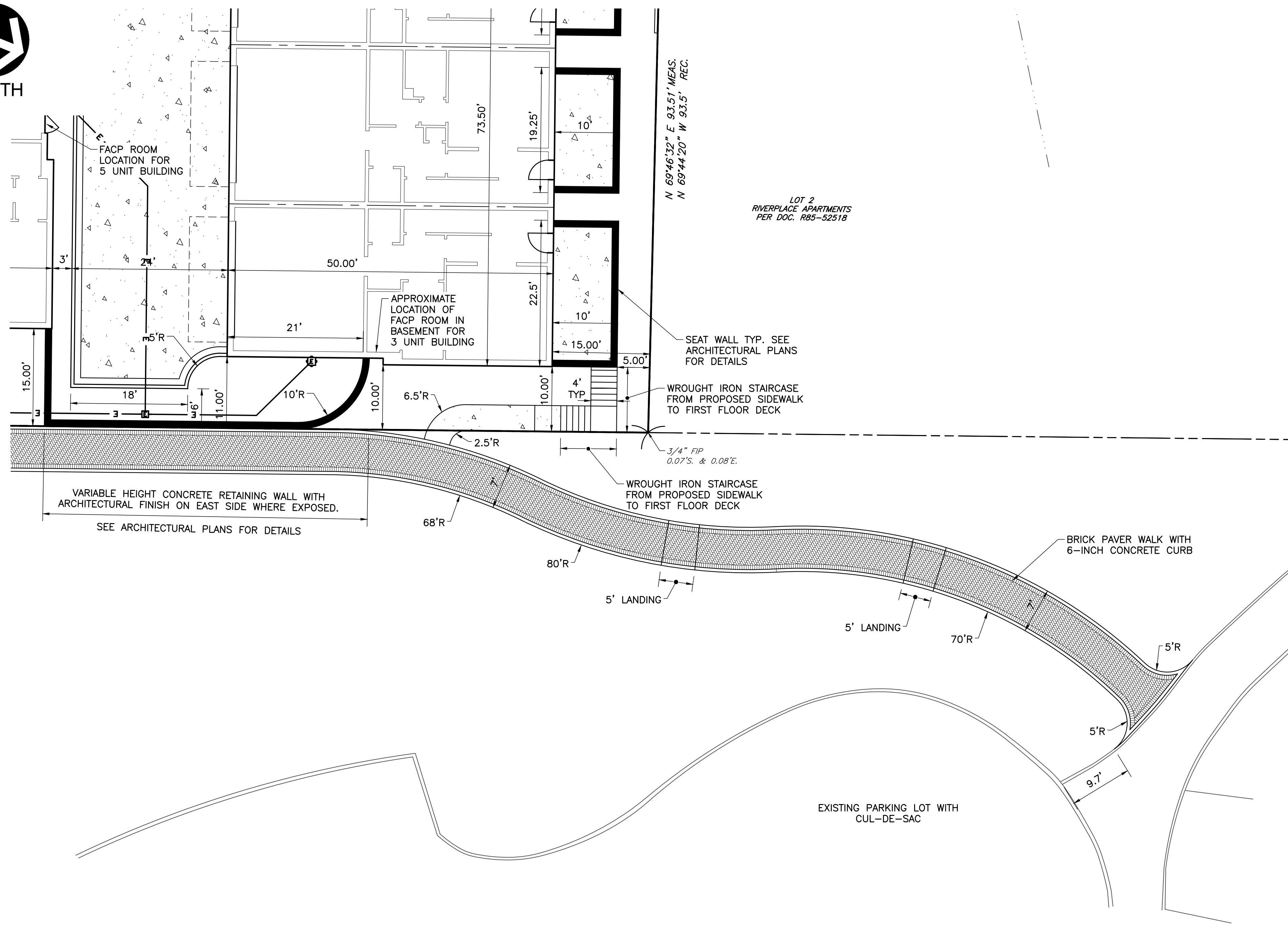
SITE DIMENSION PLAN
 DATE: APRIL 26, 2022 | DRAWN BY: SRH | JGC
 DWG SCALE: 1" = 10' | CHECKED BY: JGC | 316-884-AW00
 PROJECT NO.:
 APPROVED BY:
 DRAFT

- REFERENCE**
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DRAWING NO.: **C200**
 SHEET 7 OF 18

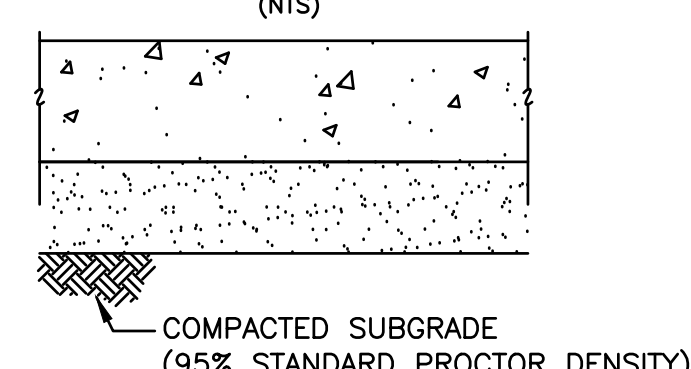
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GEOMETRIC NOTES

- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE BACK OF CURB. A MINIMUM OF 4 INCHES OF AGGREGATE BASE SHALL BE PLACED BENEATH ALL CURB AND SHALL EXTEND 18 INCHES BEYOND BACK OF CURB.
- FOR PROPOSED BUILDING AND RETAINING WALL DIMENSIONS, SEE ARCHITECTURAL PLANS.
- PROPOSED DRIVEWAY APRON (INCLUDING SIDEWALK THROUGH THE DRIVEWAY) SHALL BE:
 - PORTLAND CEMENT CONCRETE, 8-INCH (8 X 0.50 = 4.00)
 - AGGREGATE BASE COURSE, TYPE B, 4-INCH (4 X 0.13 = 0.52)
 - TOTAL = 4.52
- PROPOSED DRIVEWAY PAVEMENT SHALL BE:
 - PORTLAND CEMENT CONCRETE, 6-INCH (6 X 0.50 = 3.00)
 - AGGREGATE BASE COURSE, TYPE B, 4-INCH (4 X 0.13 = 0.52)
 - TOTAL = 3.52
- PROPOSED PAVEMENT PATCHING SHALL BE IN ACCORDANCE WITH CITY OF NAPERVILLE STANDARD DETAIL 590.13 "UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS)".
- WHERE CONCRETE PAVEMENT ABUTS B6.12 CONCRETE CURB & GUTTER, 12-INCH CONCRETE CURB OR CONCRETE RETAINING WALL, #6 TIE BARS SHALL BE INSTALLED AT 36-INCH CENTERS.

CONCRETE PAVEMENT (NTS)



SIDEWALK

- 4" PORTLAND CEMENT CONCRETE, CLASS SI (PUBLIC)
- 4" PORTLAND CEMENT CONCRETE, CLASS SI (PRIVATE)
- 2" COMPACTED CA-6 AGGREGATE BASE COURSE, TYPE B

SIDEWALK THROUGH DRIVEWAY APRON AND APRON

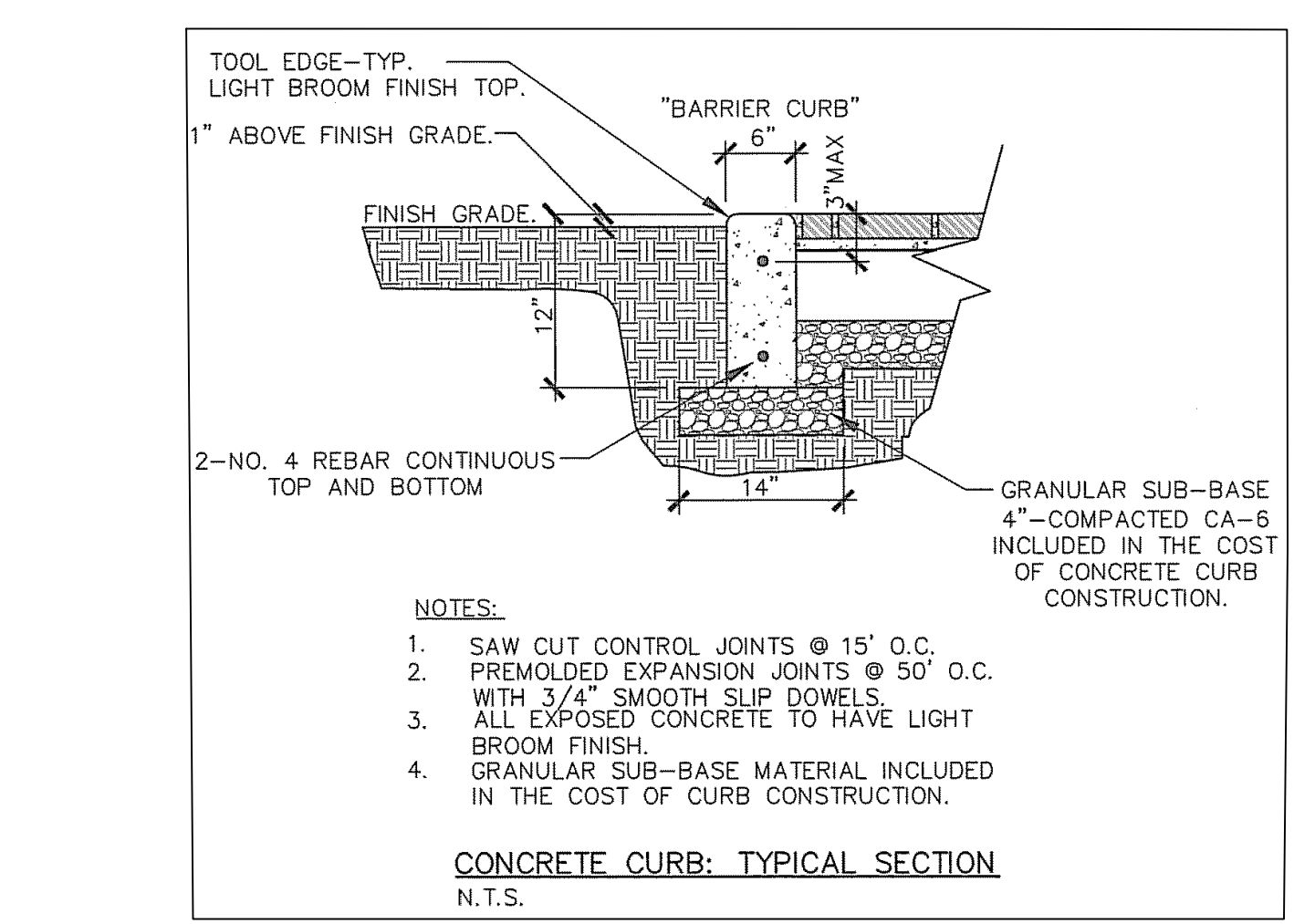
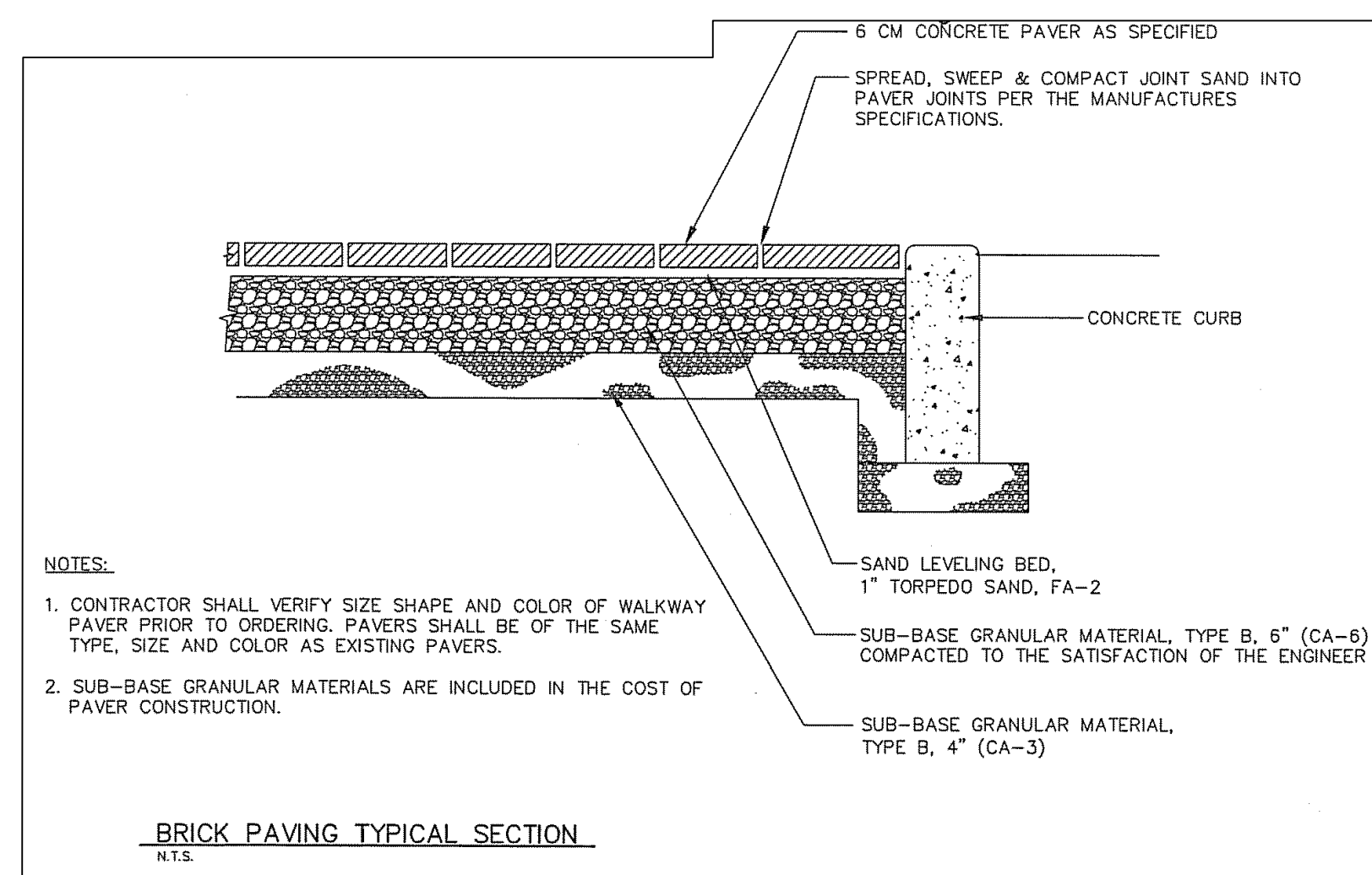
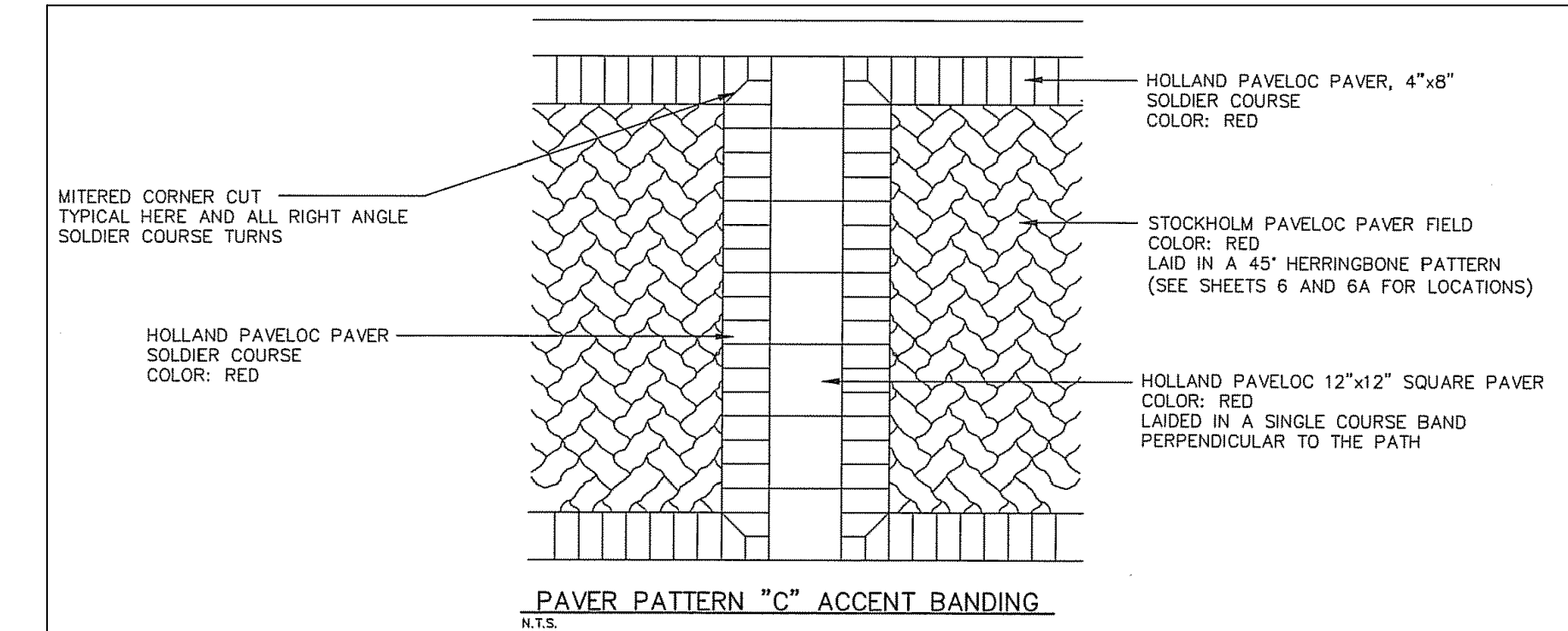
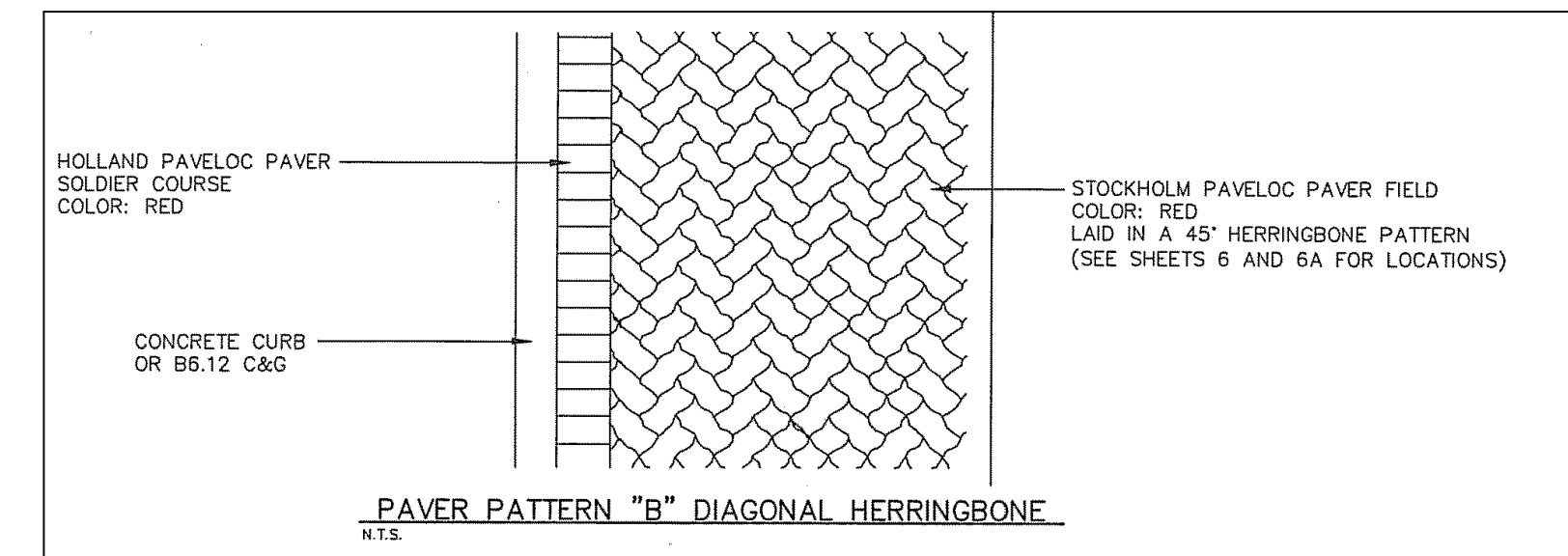
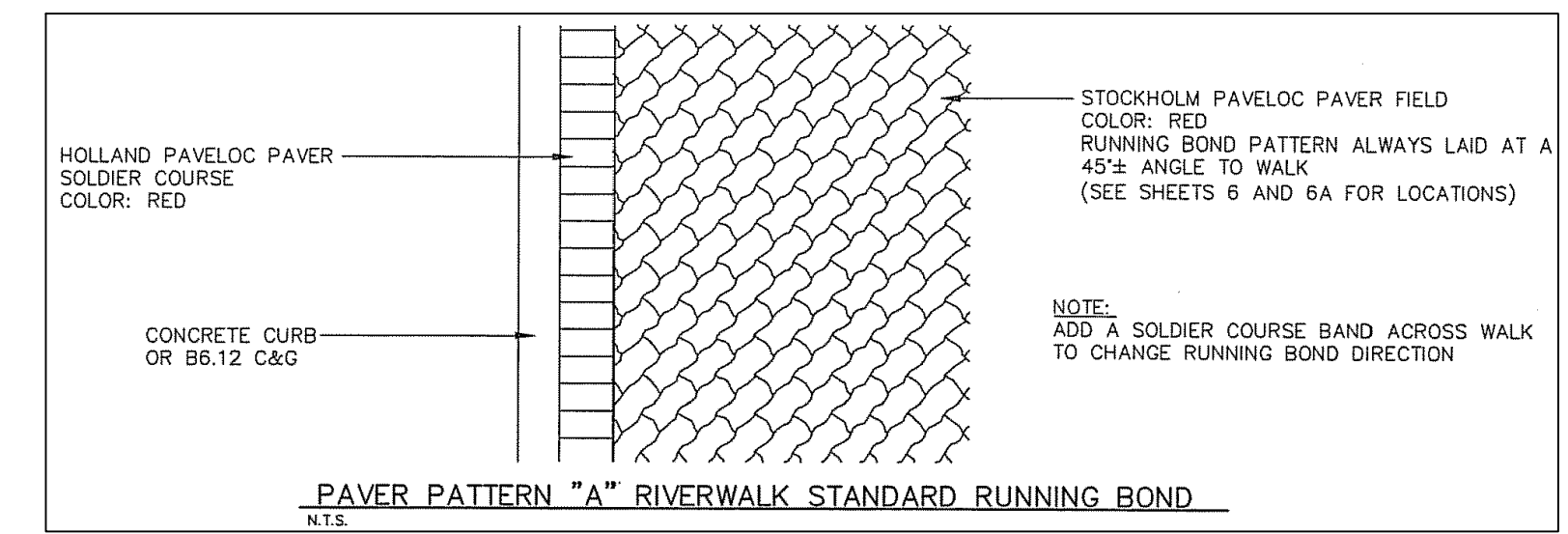
- 8" PORTLAND CEMENT CONCRETE, CLASS SI
- 4" COMPACTED CA-6 AGGREGATE BASE COURSE, TYPE B

DRIVEWAY PAVEMENT

- 6" PORTLAND CEMENT CONCRETE, CLASS SI
- 4" COMPACTED CA-6 AGGREGATE BASE COURSE, TYPE B

REFERENCE

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BRICK PAVER WALK DETAILS

PAVER PATTERNS WILL BE COORDINATED WITH CITY STAFF PRIOR TO THE CONTRACTOR FINALIZING HIS BID FOR BRICK PAVER INSTALLATION.

REVISION RECORD

NO.	DATE	DESCRIPTION
1	04/17/2022	REVISION PER CITY REVIEW DATED 04/03/22

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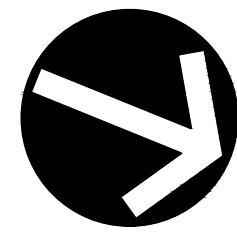
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CHARLESTON ROW III
445 AURORA AVENUE
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CHARLESTON ROW

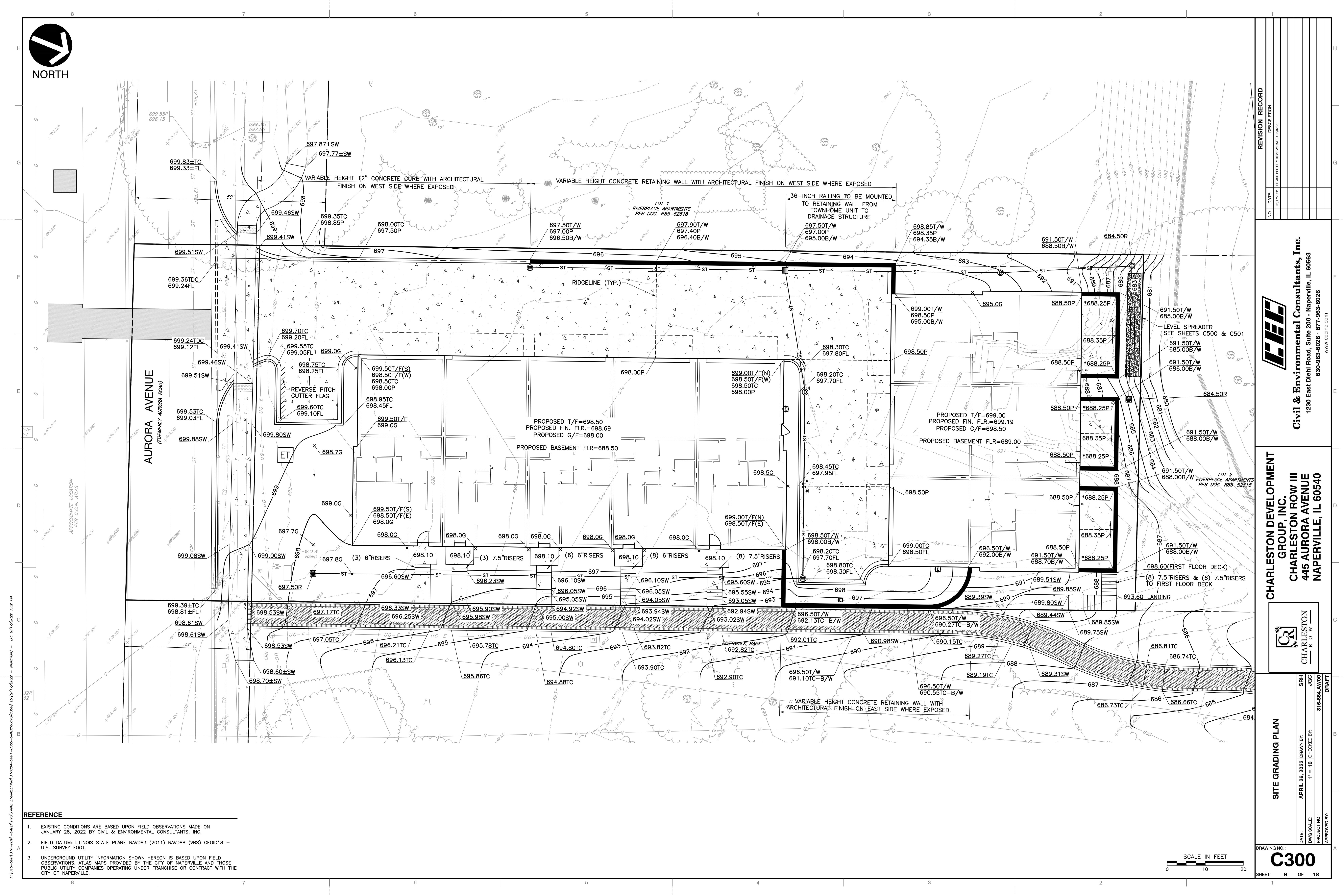
OFFSITE DIMENSION PLAN & NOTES

DATE: APRIL 26, 2022 | DRAWN BY: SRH | JGC
DWG SCALE: 1" = 10' | CHECKED BY: JGC | 316-884-AW00
APPROVED BY: [Signature] | DRAFT

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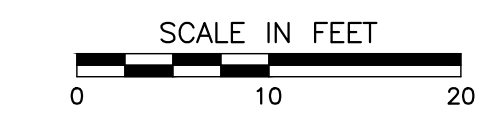


NORTH



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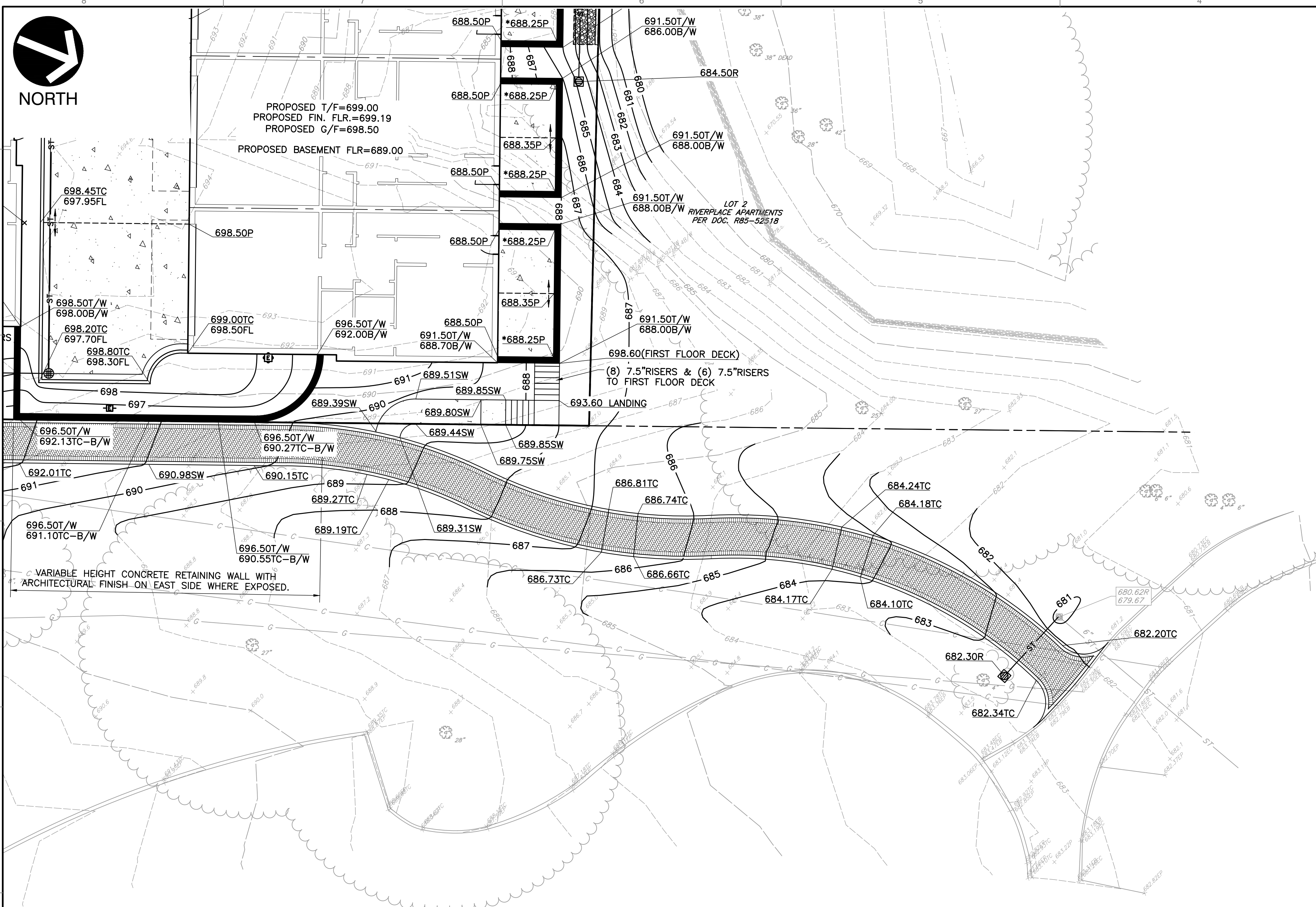
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 CHARLESTON ROW III
 445 AURORA AVENUE
 NAPERVILLE, IL 60540



SITE GRADING PLAN

DATE: APRIL 26, 2022 | DRAWN BY: SRH | JGC
 DWG SCALE: 1" = 10' | CHECKED BY: JGC | 316-884-AV00
 PROJECT NO.: 316-884-AV00
 APPROVED BY: [Signature]



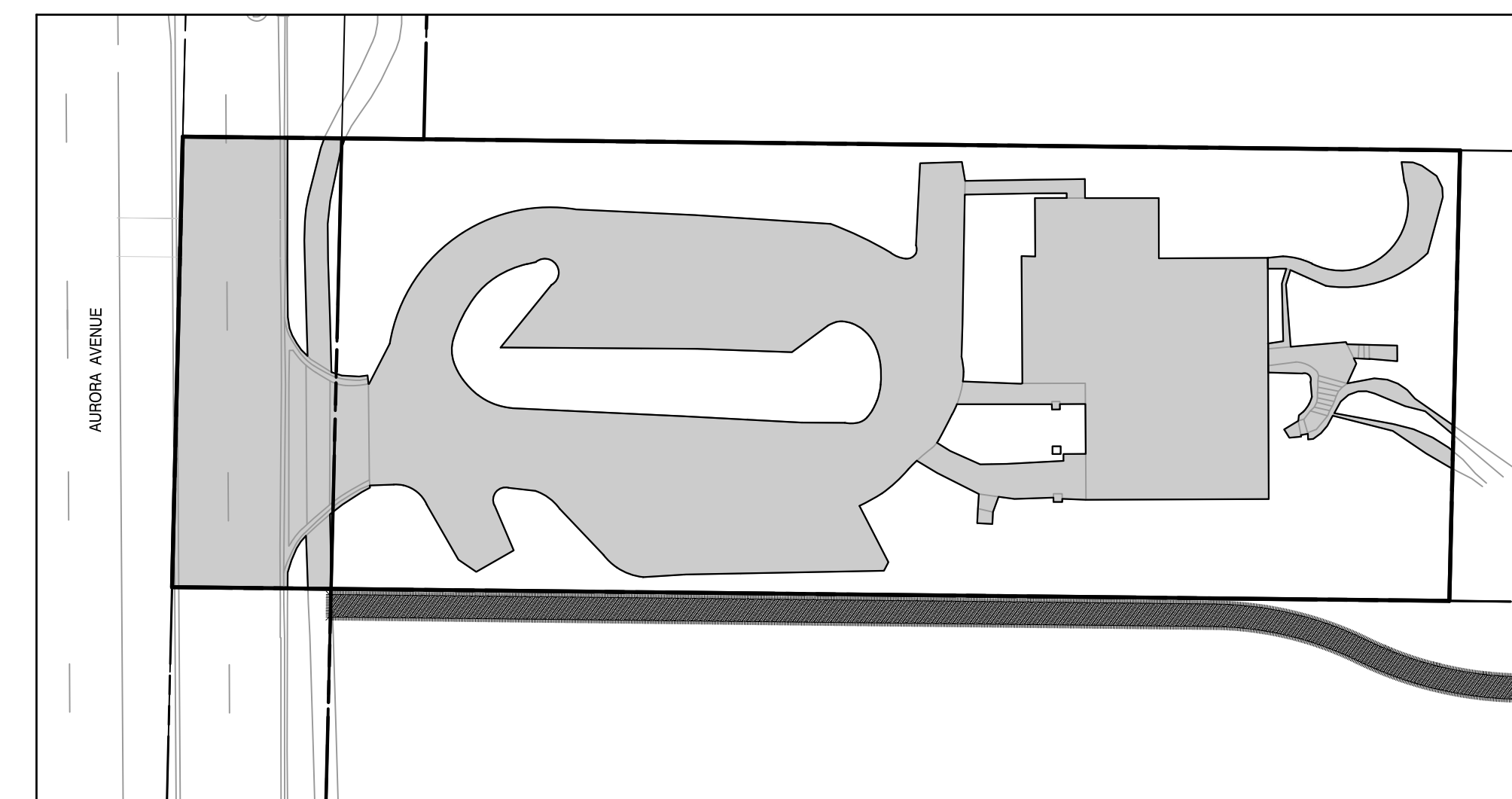
GRADING NOTES:

- UNLESS OTHERWISE INDICATED, 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:

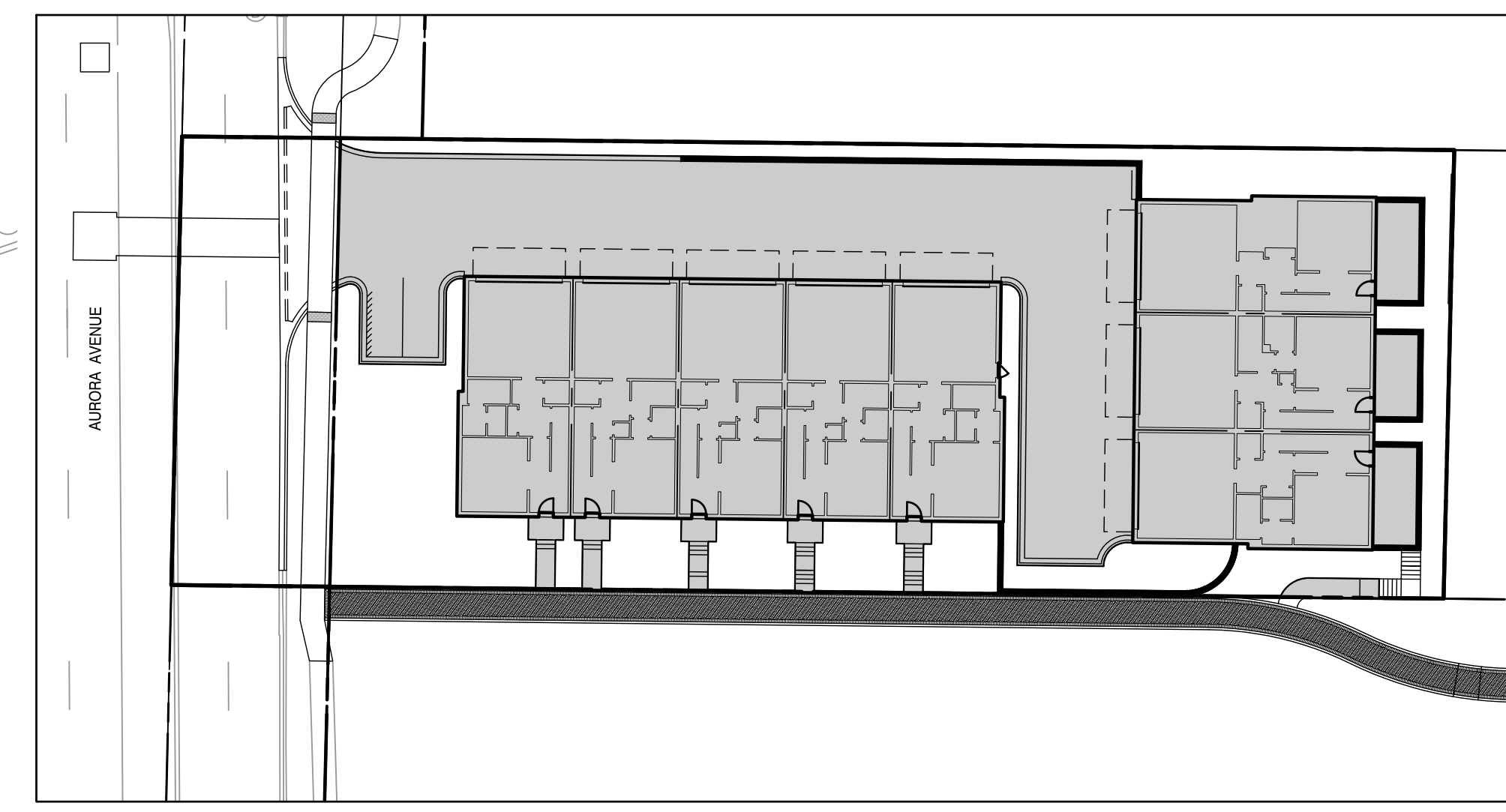
GRADING	SPRING	2023
PAVING	FALL	2023
GROUND STABILIZATION/SODDING	FALL	2023
LANDSCAPING	FALL	2023

LANDSCAPE MATERIALS SHALL BE INSTALLED AS SOON AS POSSIBLE TO STABILIZE SITE.
- 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.

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EXISTING PERVIOUS/IMPERVIOUS CONDITIONS
1"=30'

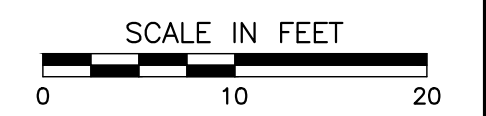


PROPOSED PERVIOUS/IMPERVIOUS CONDITIONS
1"=30'

PERVIOUS/IMPERVIOUS CALCULATIONS:			
	IMPERVIOUS AREA	PERVIOUS AREA	PROJECT AREA
EXISTING	12,940 S.F.	11,840 S.F.	24,780 S.F.
PROPOSED	16,430 S.F.	5,264 S.F.	21,694 S.F.
NET DIFFERENCE	3,490 S.F.	6,576 S.F.	3,086 S.F.

PROPOSED IMPERVIOUS AREA IS GREATER THAN EXISTING IMPERVIOUS AREA THEREFORE BEST MANAGEMENT PRACTICES (BMP) WILL BE REQUIRED. DUE TO THE SPATIAL RESTRAINTS OF THE SITE, PROPOSED BASEMENTS AND CONSIDERABLE GRADIENT SOUTH TO NORTH, THE DEVELOPER HAS REQUESTED THAT FEE IN LIEU OF INFILTRATION TRENCH INSTALLATION BE GRANTED BY THE CITY.

- STOCKPILES OF SOIL AND OTHER 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.
- INSTALL LOW/NO MAINTENANCE GROUND COVER WHERE SLOPES EXCEED 4 TO 1.
- PROPOSED SIDEWALK SHALL HAVE CROSS SLOPE OF 1% MINIMUM AND 2% MAXIMUM.
- A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO TOWNHOME CONSTRUCTION COMMENCEMENT.
- IF ANY PORTION OF THE DRIVEWAY WITHIN THE PUBLIC RIGHT OF WAY IS MODIFIED TO ANY OTHER SURFACE OTHER THAN ASPHALT OR STANDARD CONCRETE (I.E. BRICK PAVER, STAMPED CONCRETE), THE BUILDER SHALL SUBMIT AN EXECUTED COPY OF THE CITY'S RIGHT OF WAY COVENANT AGREEMENT PRIOR TO FINAL INSPECTION.
- THE LIMITS OF THE PROPOSED CONCRETE RETAINING WALL INDICATE LINE AND GRADE NECESSARY TO CONFORM WITH THE PROPOSED GRADING PLAN. SEE ARCHITECTURAL OR STRUCTURAL PLANS PREPARED BY OTHERS FOR DESIGN DETAILS.
- DRAINAGE SWALES SHALL HAVE A MINIMUM SLOPE OF 1.5% (2% PREFERRED).
- *685.25P DESIGNATES LOCATIONS WHERE A 4-INCH DIAMETER WEEP HOLE SHALL BE INSTALLED AT THE NORTH FACE OF SEAT WALL TO PROVIDE PATIO DRAINAGE.



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1	04/17/2023 REVISE PER CITY REVIEW DATED 04/03/23

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www.cecinc.com

CHARLESTON DEVELOPMENT GROUP, INC.
CHARLESTON ROW III
445 AURORA AVENUE
NAPERVILLE, IL 60540

OFFSITE GRADING PLAN & NOTES

DATE: APRIL 26, 2022 DRAWN BY: SRH
DWG SCALE: 1" = 10' PROJECT NO: 316-88A-AV00
CHECKED BY: JGC APPROVED BY: [Signature]
DRAFT

DRAWING NO: **C301**

SHEET 10 OF 18

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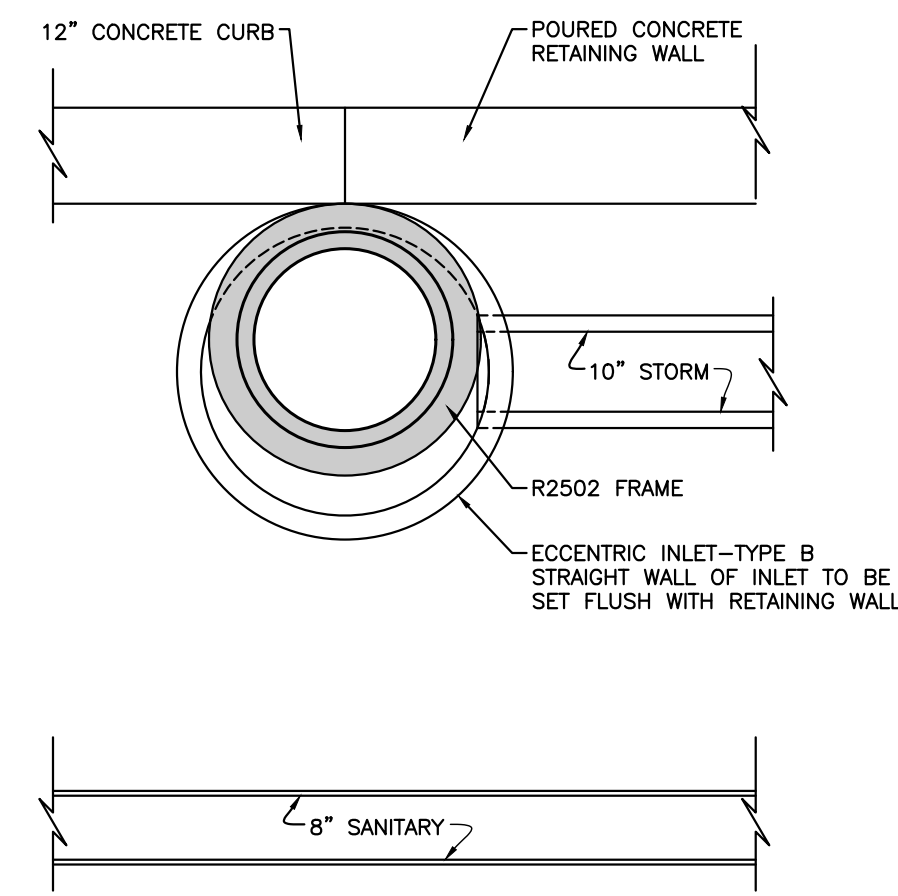


EXHIBIT A
SCALE: 1" = 2'

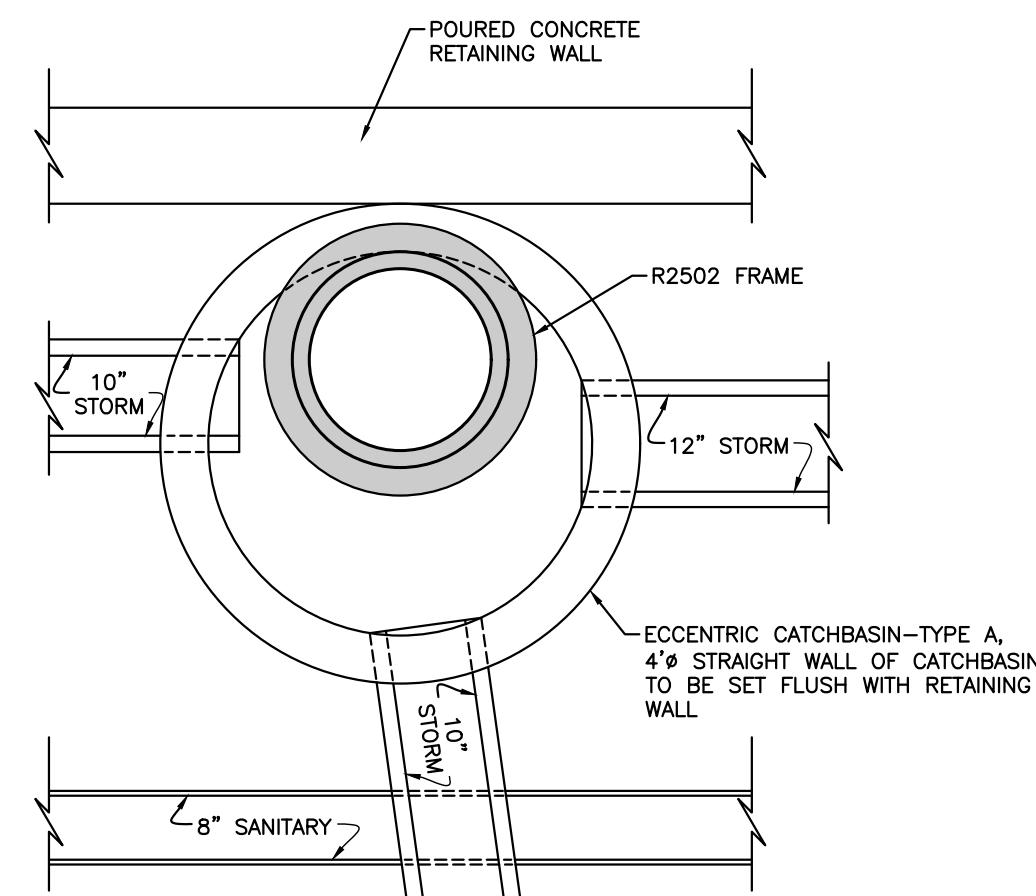


EXHIBIT B
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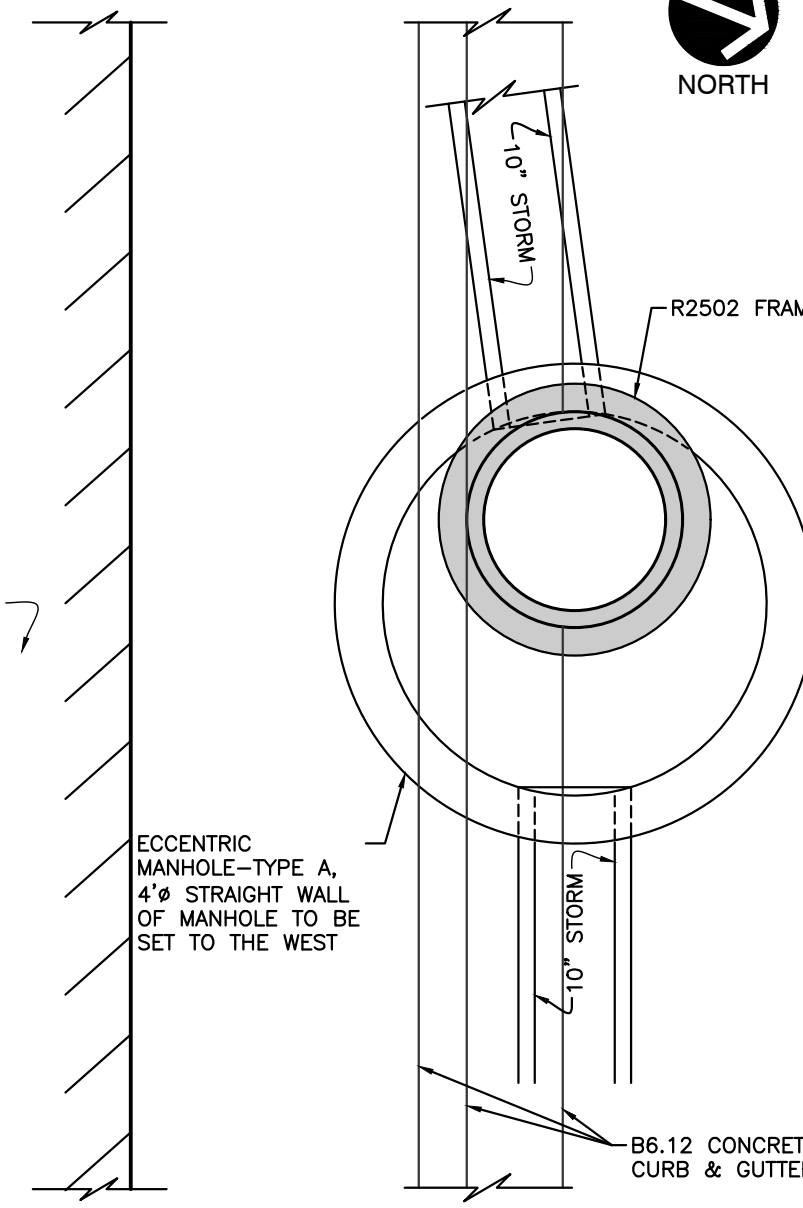
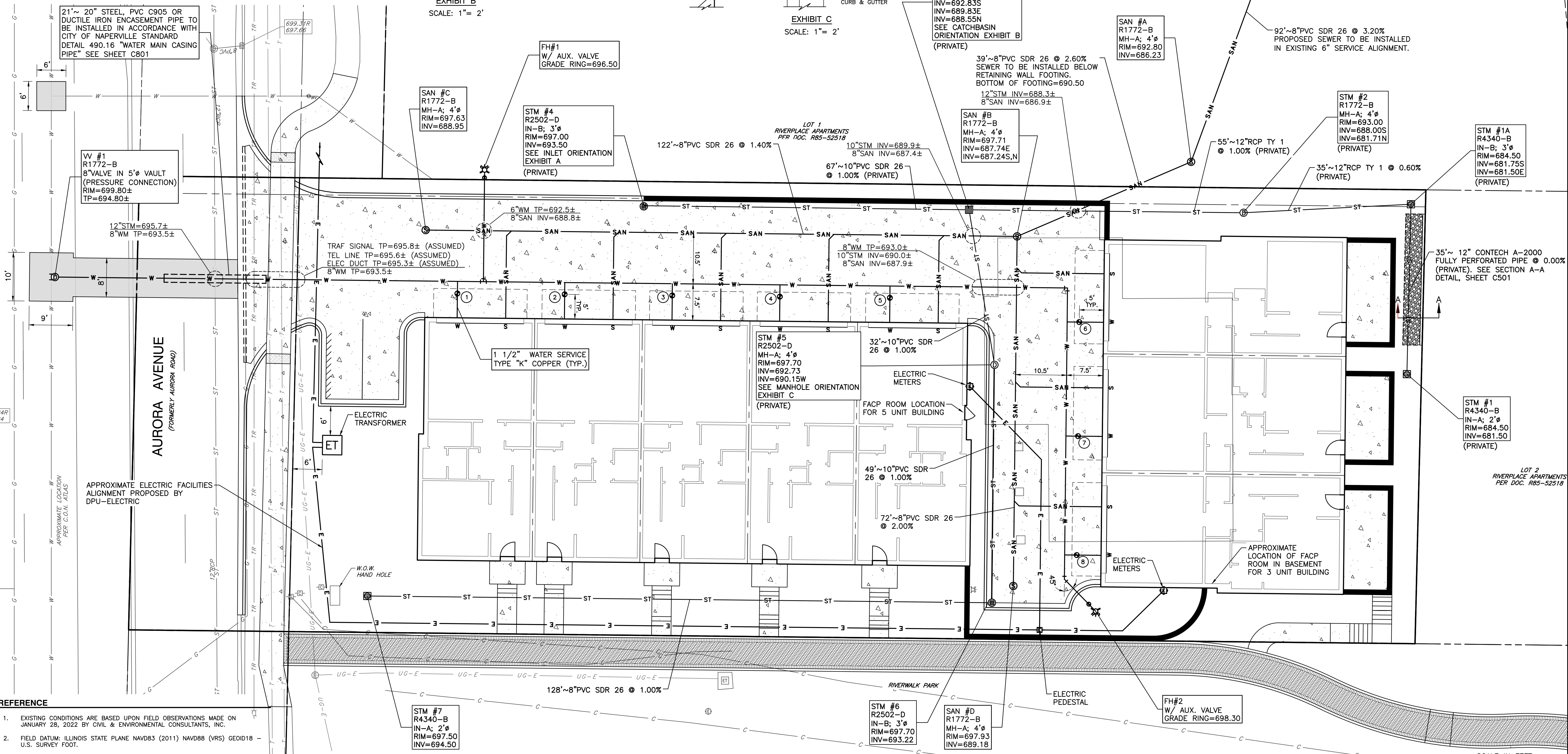


EXHIBIT C
SCALE: 1" = 2'

BUFFALO BOX	ELEVATION
1	697.88
2	697.83
3	697.81
4	697.85
5	697.84
6	698.41
7	698.37
8	698.36

ALL WATER SERVICES SHALL BE 1 1/2" INCH TYPE "K" COPPER



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NO.	DATE	DESCRIPTION
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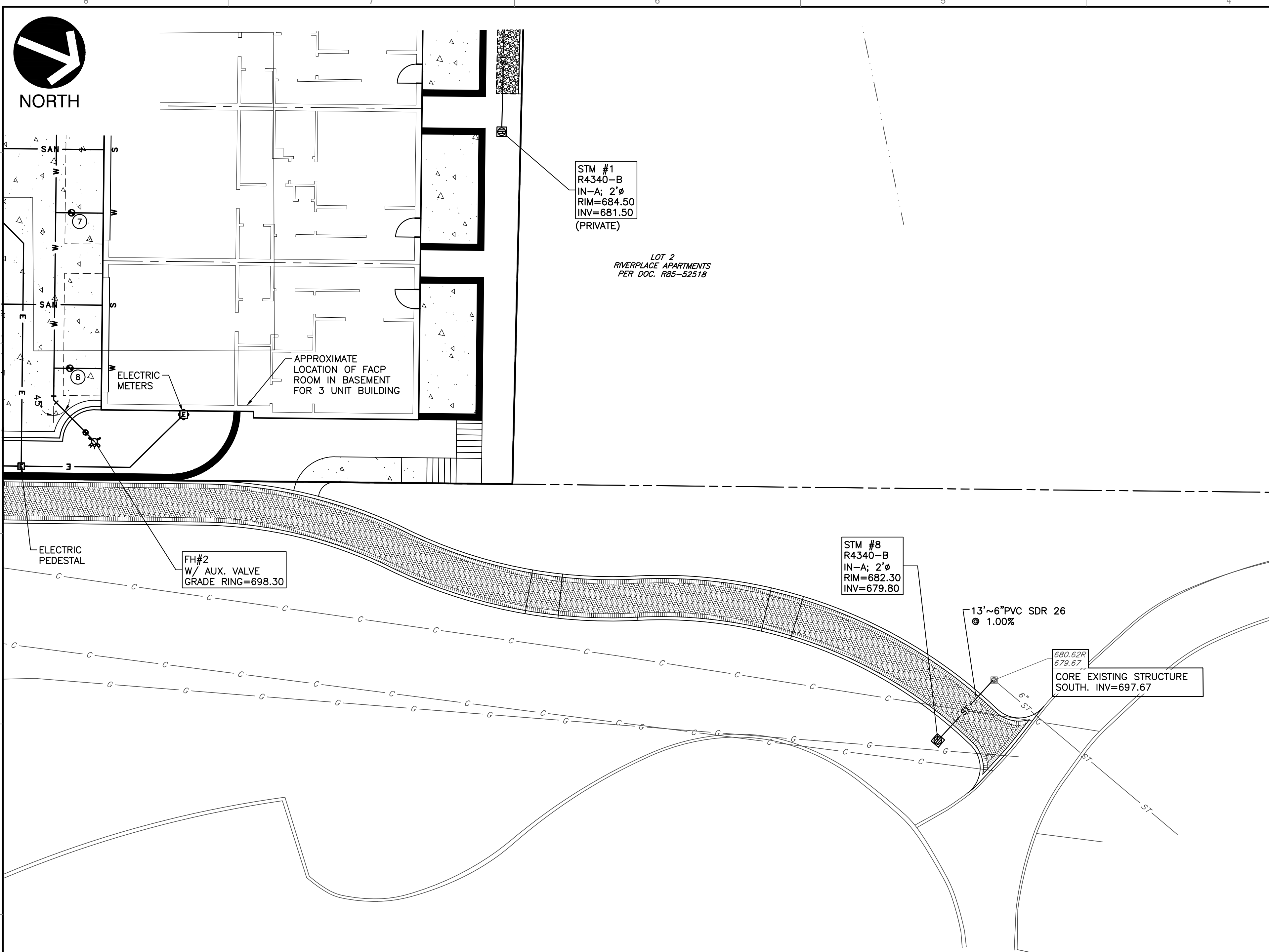
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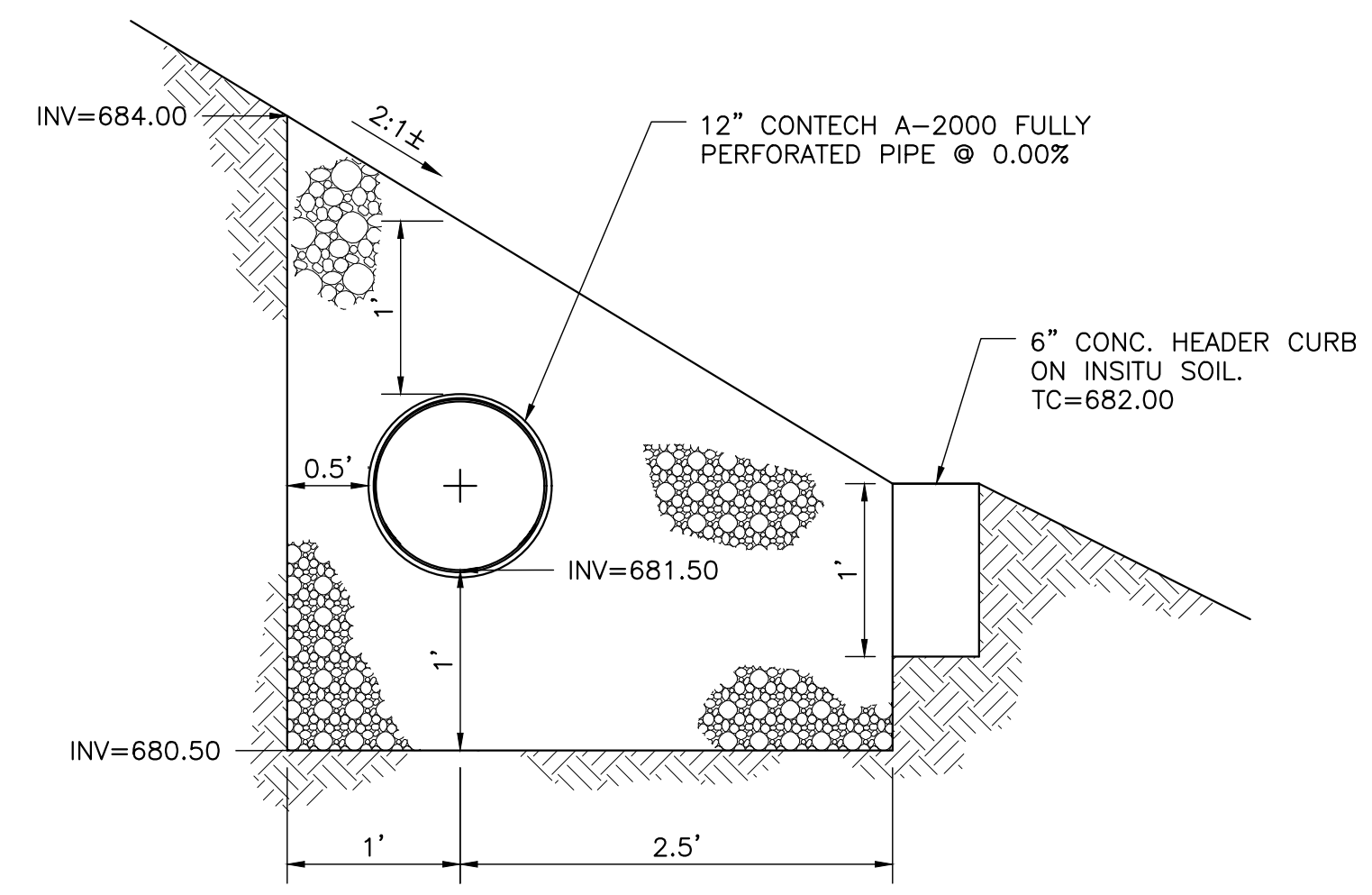


SITE UTILITY PLAN

DATE: APRIL 26, 2022
 DRAWN BY: JGC
 PROJECT NO: 316-88A-AW00
 CHECKED BY: JGC
 APPROVED BY: [Signature]
 DRAFT



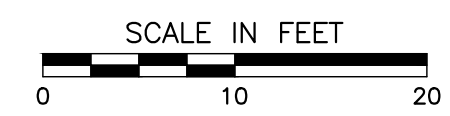
- UTILITY NOTES**
1. ALL PROPOSED UTILITY CROSSINGS WITH EXISTING UTILITIES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
 2. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY/SERVICE EXTENSIONS 5 FEET OUTSIDE THE BUILDING ENVELOPE. PIPE LENGTH CALL-OUTS HAVE BEEN DENOTED FROM THE FACE OF THE BUILDING.
 3. THE CONTRACTOR SHALL PROVIDE FILTER BASKETS FOR ALL OPEN LID STRUCTURES WITHIN THE CONSTRUCTION ZONE TO MINIMIZE INTRUSION OF DEBRIS/SILT INTO THE STORM SEWER SYSTEM.
 4. UNLESS OTHERWISE NOTED, PVC STORM SEWER PIPE FOR DOWNSPOUT CONNECTIONS (DS) SHALL BE SDR 26 ASTM 3034. ALL SUMP PUMP (SP) AND DOWNSPOUT CONNECTIONS (NOT SHOWN) SHALL BE 6-INCH PVC SDR 26 ASTM D2241 WITH D3139 JOINTS AT 1.00% MINIMUM. ALL PIPE TO CONNECT DOWNSPOUTS SHALL BE 6-INCH. PIPE INVERT AT THE BUILDING AND AT THE POINT OF SEWER CONNECTION SHALL BE A MINIMUM 3.5 FEET BELOW PROPOSED GRADE. SEE CITY OF NAPERVILLE STANDARD DETAIL 290.30 "SUMP PUMP CONNECTION", SHEET 9.
 5. ALL CASTINGS SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT.
 6. ALL SANITARY SERVICES SHALL BE 6" PVC SDR 26 ASTM D2241 WITH D3139 JOINTS @ 1.00% MINIMUM. CLEANOUTS FOR UNITS 1-8 WILL BE PROVIDED IN THE GARAGE. ALL SERVICES SHALL CROSS BENEATH THE PROPOSED 8-INCH WATERMAIN AND PROVIDE A MINIMUM OF 18 INCHES BETWEEN BOTTOM OF WATERMAIN AND TOP OF SANITARY SERVICE. ALL SANITARY SERVICES SHALL HAVE A CLEANOUT RISER AND CAPPED WITH A CLEANOUT BOX EJIW 1566 OR APPROVED EQUAL ADJUSTED TO FINISHED GRADE. ALL RESIDENCES SHALL HAVE OVERHEAD SEWERS.
 7. UPON COMPLETION OF THE UTILITY INSTALLATIONS, THE PUBLIC RIGHT OF WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION.



SECTION A - A
SCALE: 1" = 1'

- SECTION A-A NOTES:**
1. NORTH FACE, SOUTH FACE AND BOTTOM OF TRENCH SHALL BE WRAPPED IN GEOTEXTILE FABRIC.
 2. THE TRENCH SHALL BE FILLED WITH 3-INCH STONE (IDOT GRADATION CA-1) TO THE CROWN OF THE 12-INCH PIPE. THE REMAINDER OF THE TRENCH SHALL BE FILLED WITH 8 TO 12-INCH COBBLESTONES AS SPECIFIED BY THE LANDSCAPE ARCHITECT.

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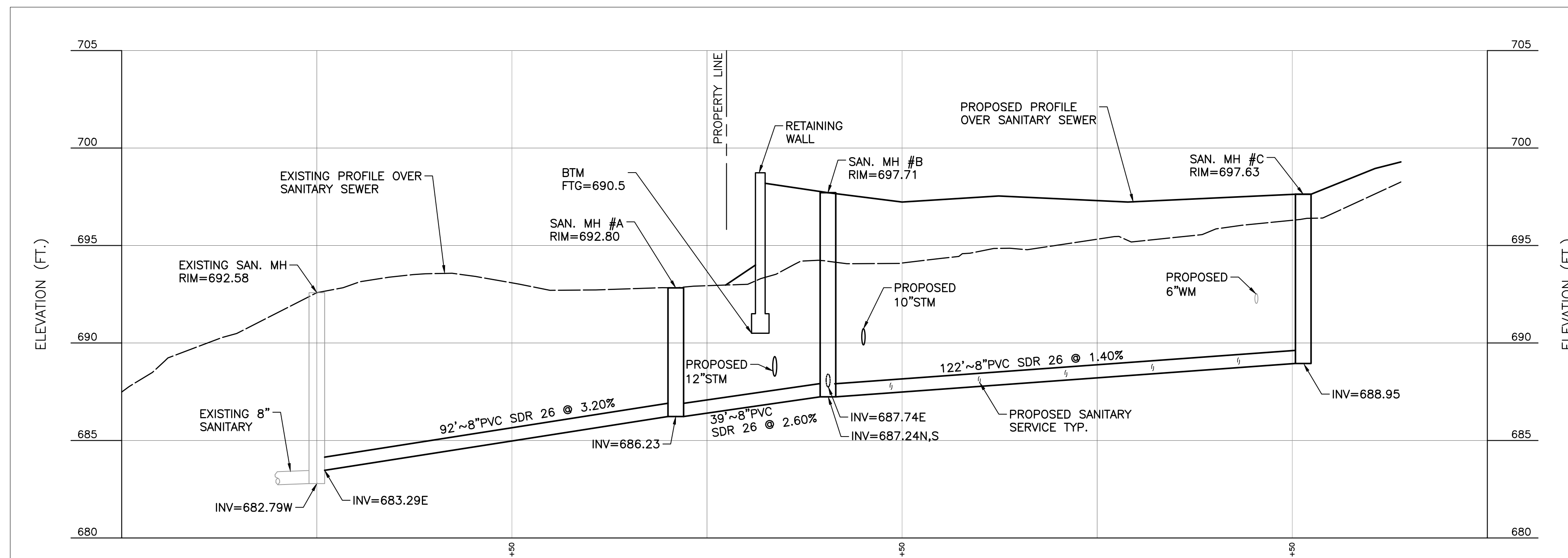


OFFSITE UTILITY PLAN & NOTES

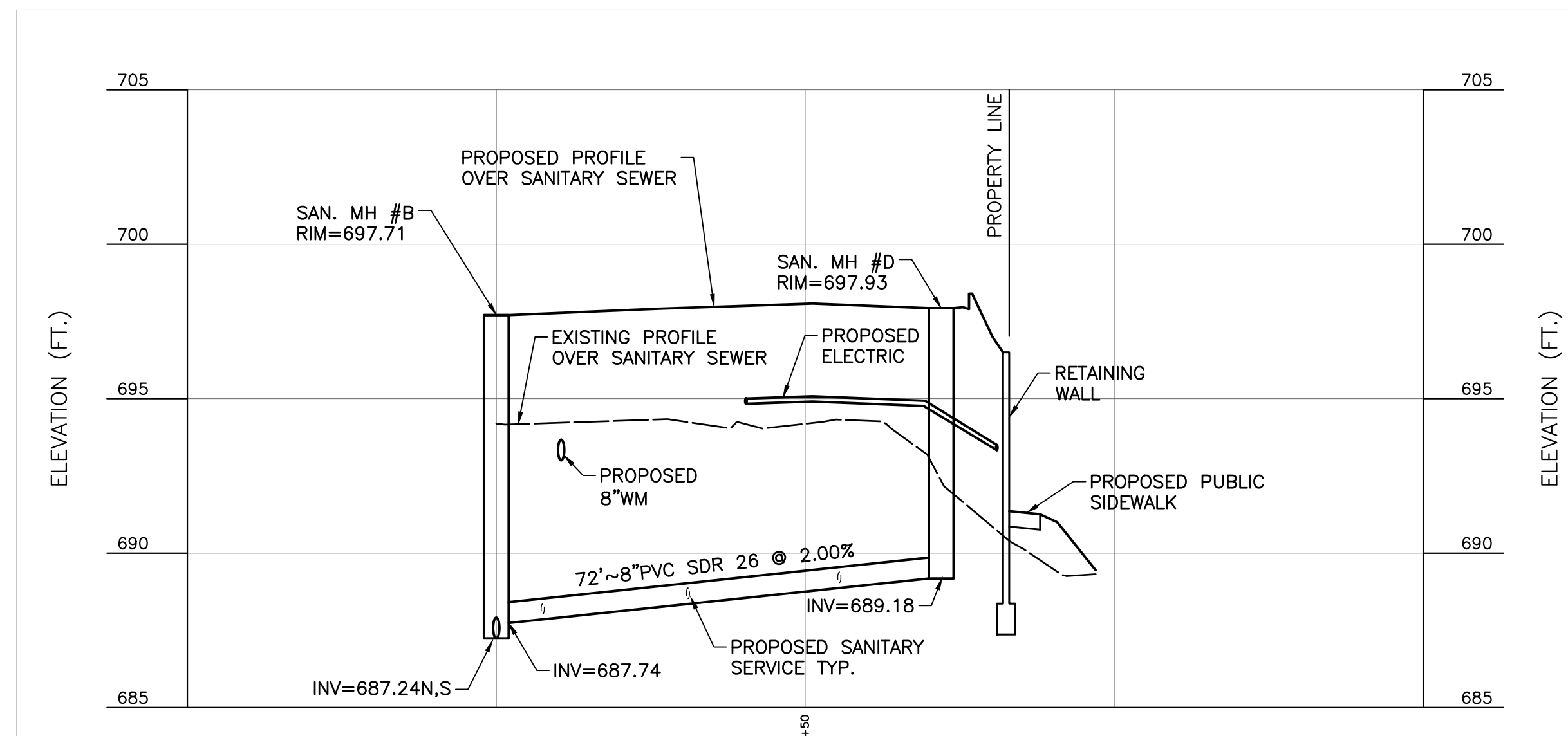
DATE: APRIL 26, 2022 | DRAWN BY: SRH | JGC
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 PROJECT NO: 316-884-AW00
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DRAWING NO. **C501**
 SHEET 12 OF 18

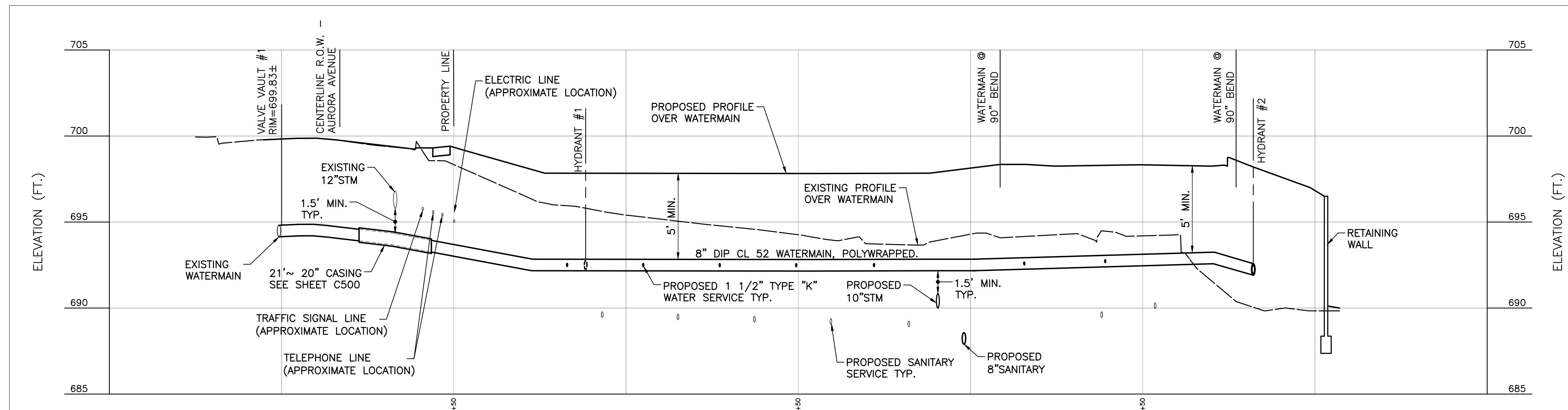
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SANITARY PROFILE - MANHOLE #A TO MANHOLE #C
SCALE H: 1" = 20' ; V: 1" = 4'



SANITARY PROFILE - MANHOLE #B TO MANHOLE #D
SCALE H: 1" = 20' ; V: 1" = 4'



WATERMAIN PROFILE
SCALE H: 1" = 20' ; V: 1" = 4'

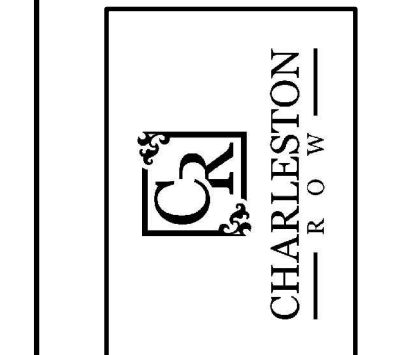
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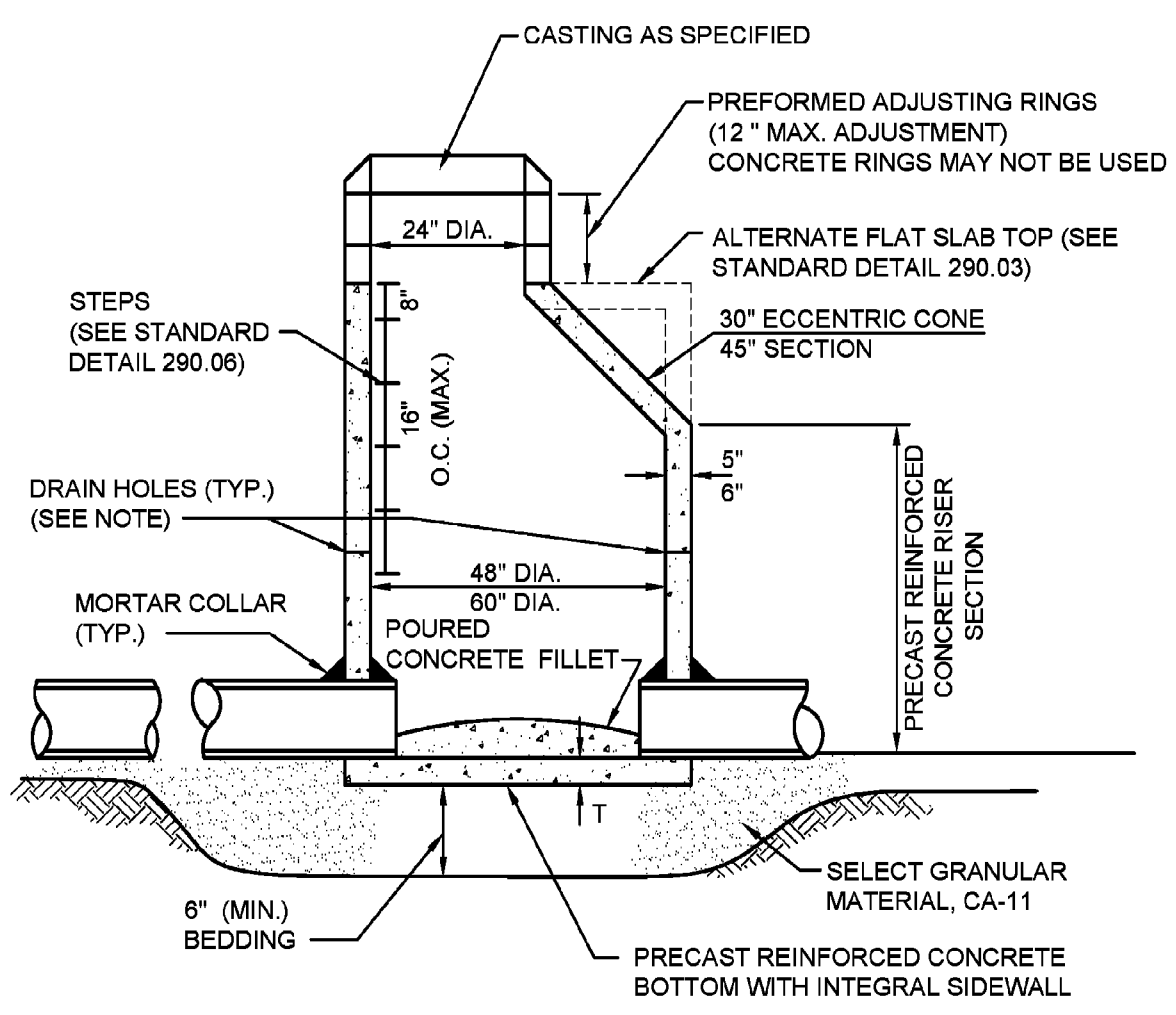


SANITARY SEWER & WATERMAIN PROFILES	
DATE:	APRIL 26, 2022
DWG SCALE:	AS SHOWN
PROJECT NO.:	316-884-AV00
APPROVED BY:	JGC
DRAWN BY:	SRH
CHECKED BY:	JGC
DRAFT	

DRAWING NO.: **C502**
SHEET 13 OF 18

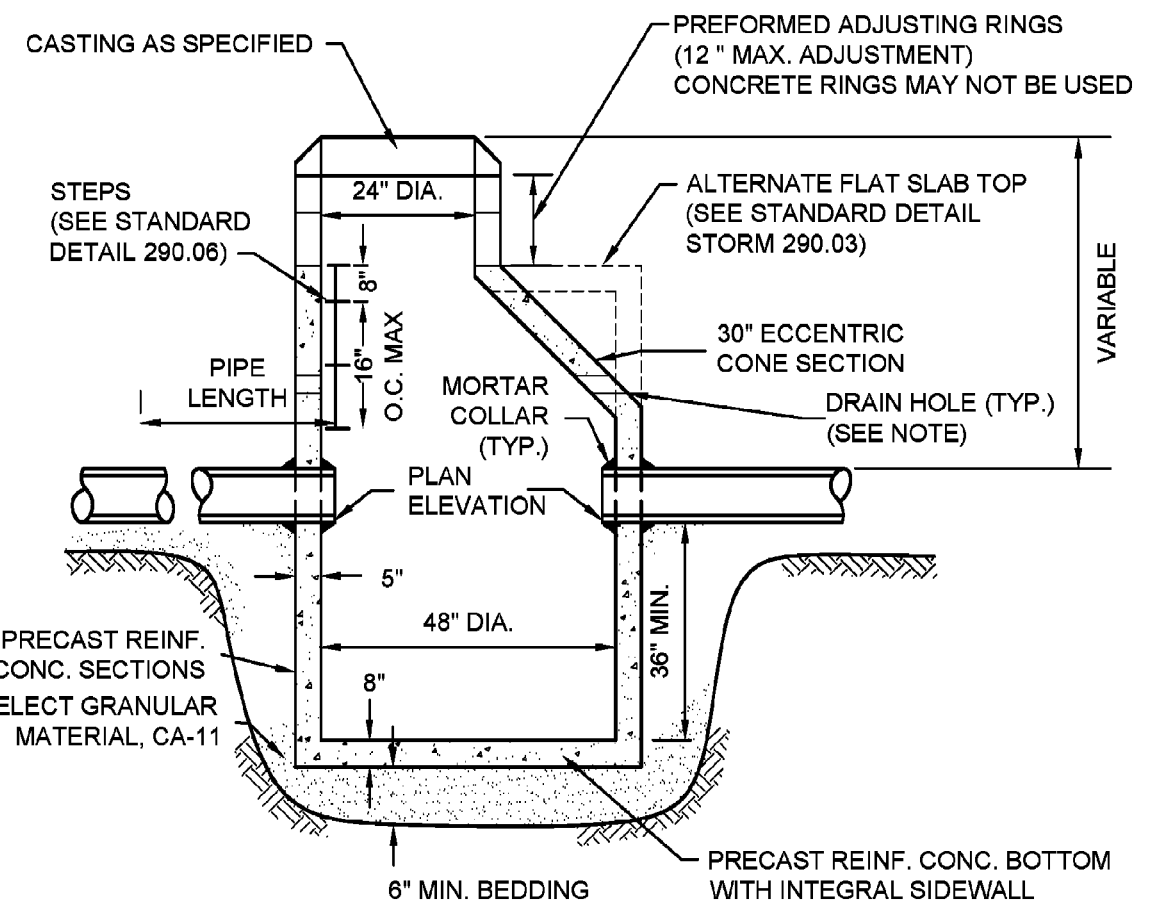
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WHEN MANHOLE DEPTH IS 12 FT OR LESS T = 8 INCHES
WHEN MANHOLE DEPTH IS OVER 12 FT, T = 10 INCHES



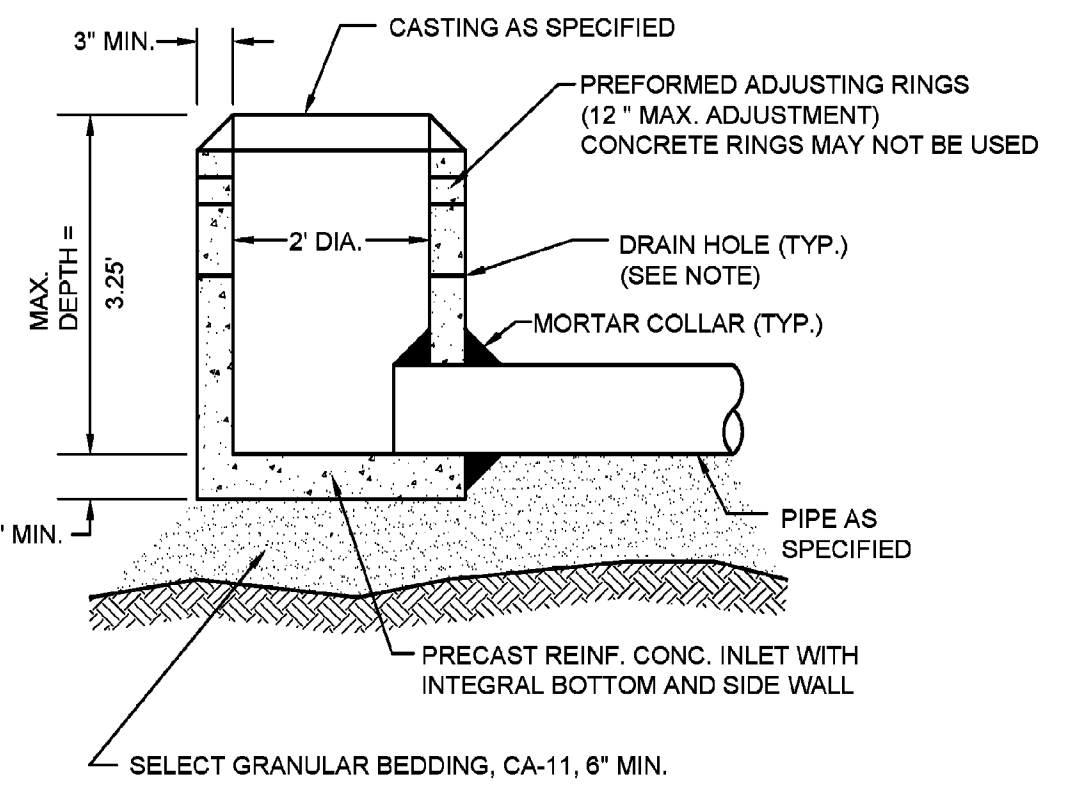
NOTE:
A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF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

City of Naperville
STANDARD DETAIL
STORM MANHOLE - TYPE A
REVIS: 08/01/2018 SHEET 1 OF 1
290.01



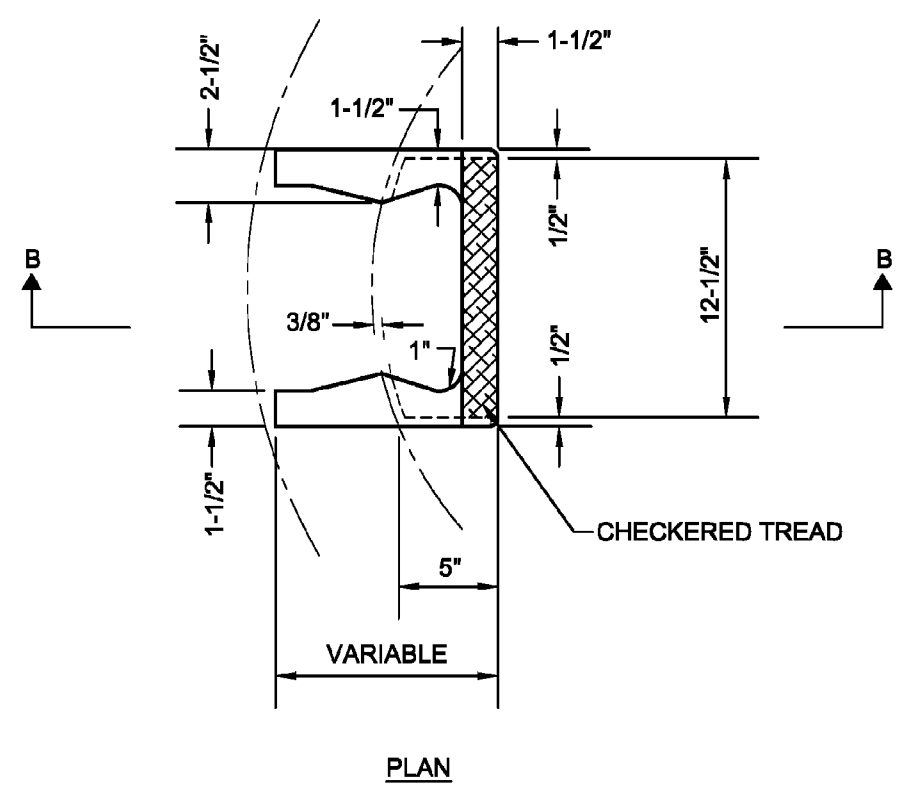
NOTE:
A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON THE OUTSIDE OF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

City of Naperville
STANDARD DETAIL
CATCH BASIN - TYPE A
REVIS: 08/01/2018 SHEET 1 OF 1
290.02

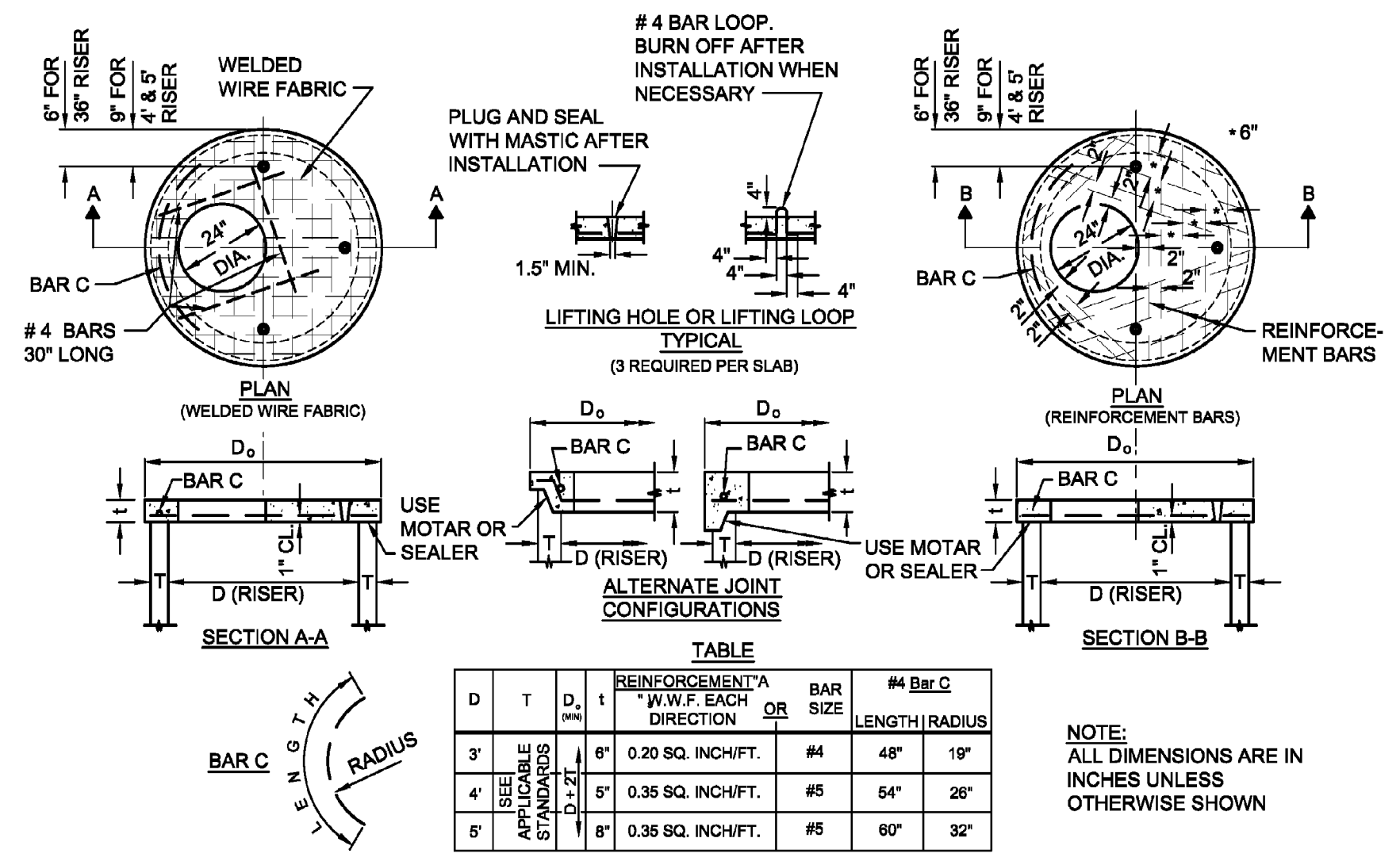


NOTE:
IN PAVED AREAS A MINIMUM OF 4 PRECAST OR DRILLED 1" DIAMETER HOLES SHALL BE PROVIDED WITHIN 1' OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1' BY 1' SQUARE OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE FIXED OVER EACH DRAIN HOLE ON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

City of Naperville
STANDARD DETAIL
INLET - TYPE A
REVIS: 08/01/2018 SHEET 1 OF 1
290.05



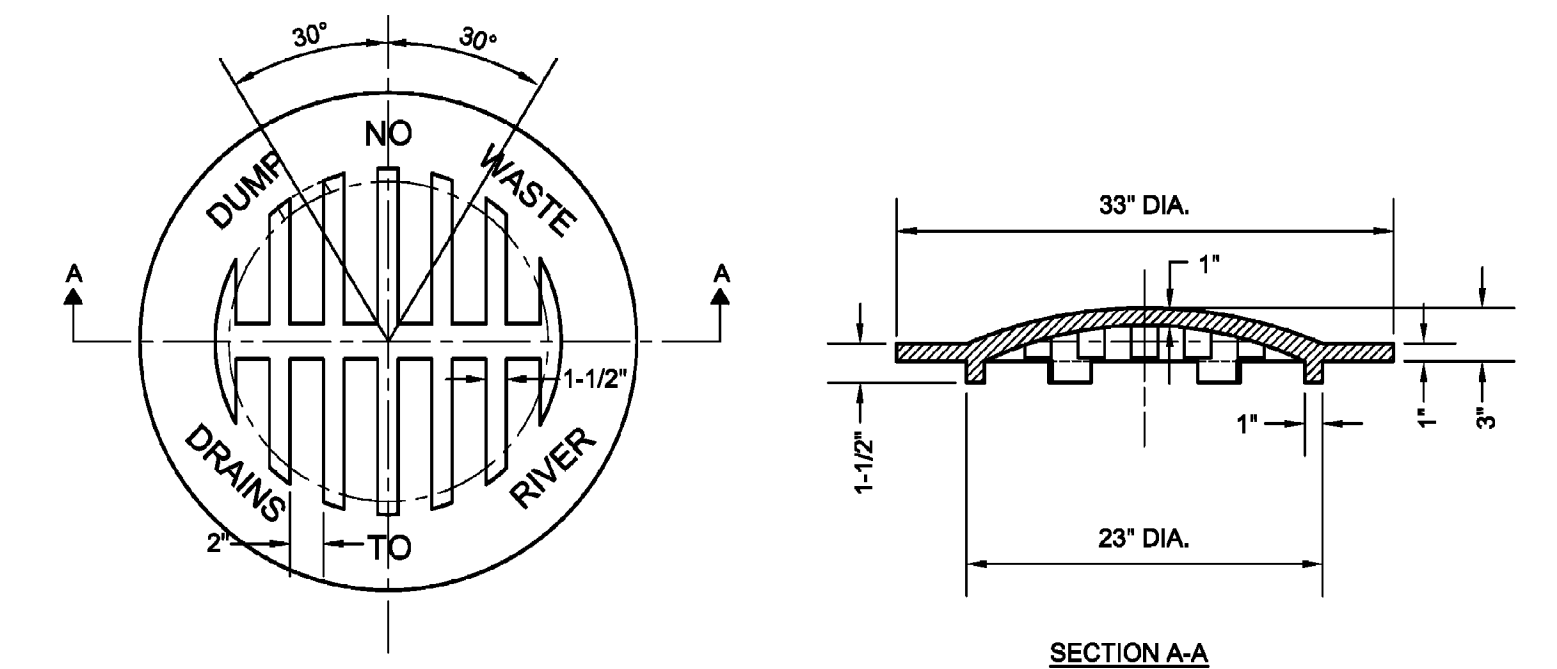
City of Naperville
STANDARD DETAIL
CAST IRON STEPS
REVIS: 01/01/2013 SHEET 1 OF 1
290.06



D	T	REINFORCEMENT ¹ W.W.F. EACH DIRECTION	BAR SIZE	#4 BAR C LENGTH RADIUS
3'	5'	0.20 SQ. INCH/FT.	#4	48" 19"
4'	6'	0.35 SQ. INCH/FT.	#5	64" 26"
5'	8'	0.35 SQ. INCH/FT.	#5	60" 32"

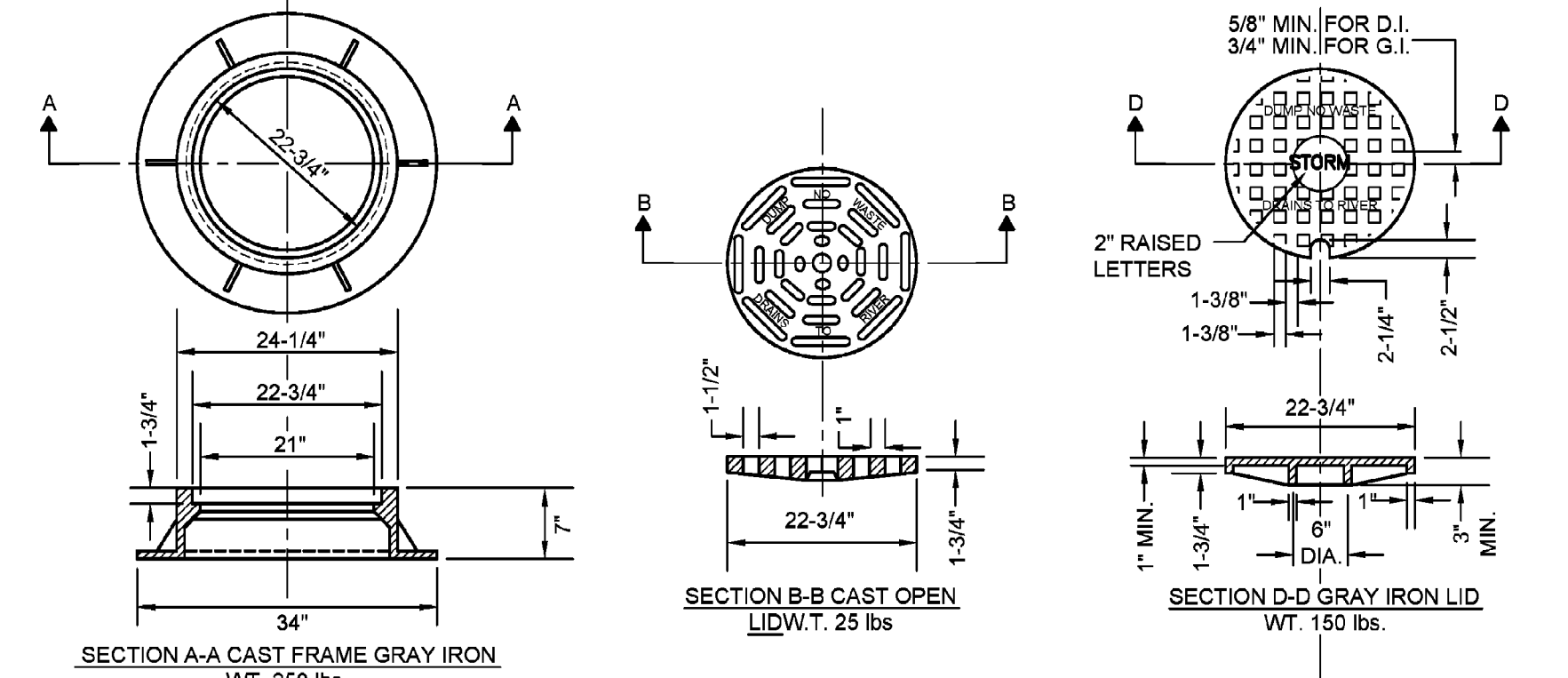
NOTE:
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN

City of Naperville
STANDARD DETAIL
FLAT SLAB TOP PRECAST REINFORCED CONCRETE
REVIS: 01/01/2013 SHEET 1 OF 1
290.03



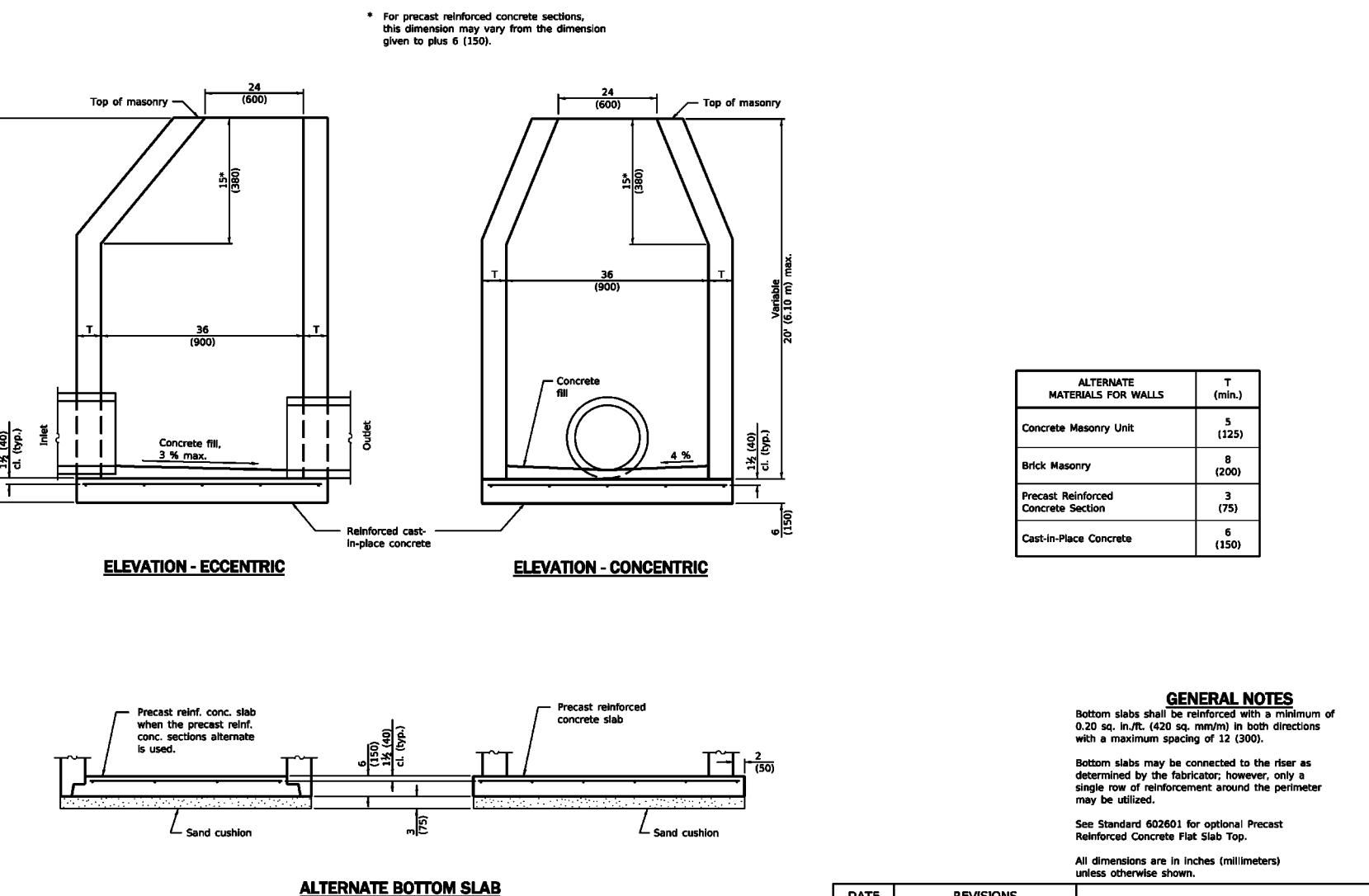
NOTES:
1. BEEHIVE GRATE SHALL BE NEENAH R4340B, EAST JORDAN 6527, OR EQUAL APPROVED BY THE CITY ENGINEER.
2. ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
3. ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE, DRAINS TO RIVER".

City of Naperville
STANDARD DETAIL
BEEHIVE GRATE
REVIS: 05/15/2015 SHEET 1 OF 1
290.14



NOTES:
1. 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.
2. ALL LIDS AND COVERS SHALL HAVE MACHINED SURFACES AND SEATS.
3. ALL CASTINGS SHALL BE SHOP PAINTED WITH AN ASPHALTIC BASE PAINT.
4. ALL CASTINGS SHALL INCLUDE "DUMP NO WASTE, DRAINS TO RIVER".

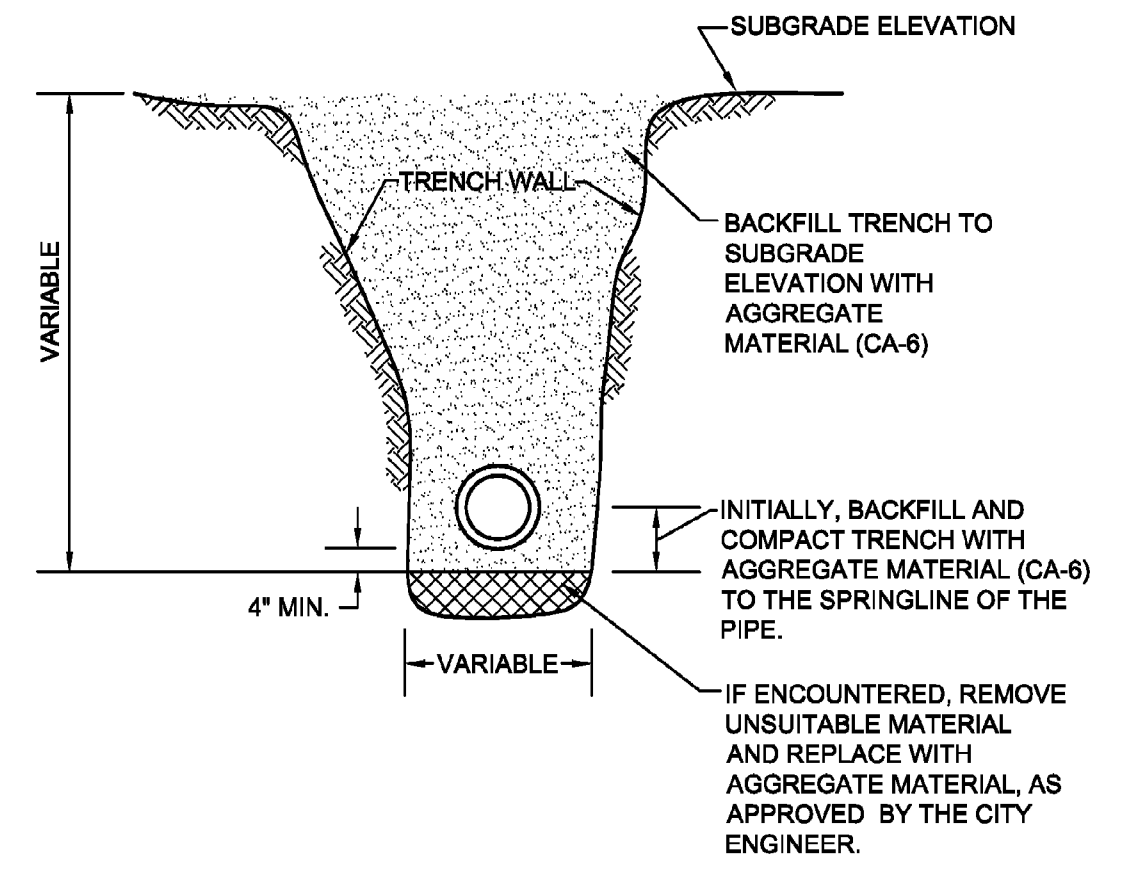
City of Naperville
STANDARD DETAIL
FRAME & LID OR GRATE
REVIS: 05/15/2015 SHEET 1 OF 1
290.10



ALTERNATE MATERIALS FOR WALLS	1
Concrete Masonry Unit	3 (120)
Brick Masonry	6 (120)
Precast Reinforced Concrete Section	3 (175)
Cast-in-Place Concrete	6 (100)

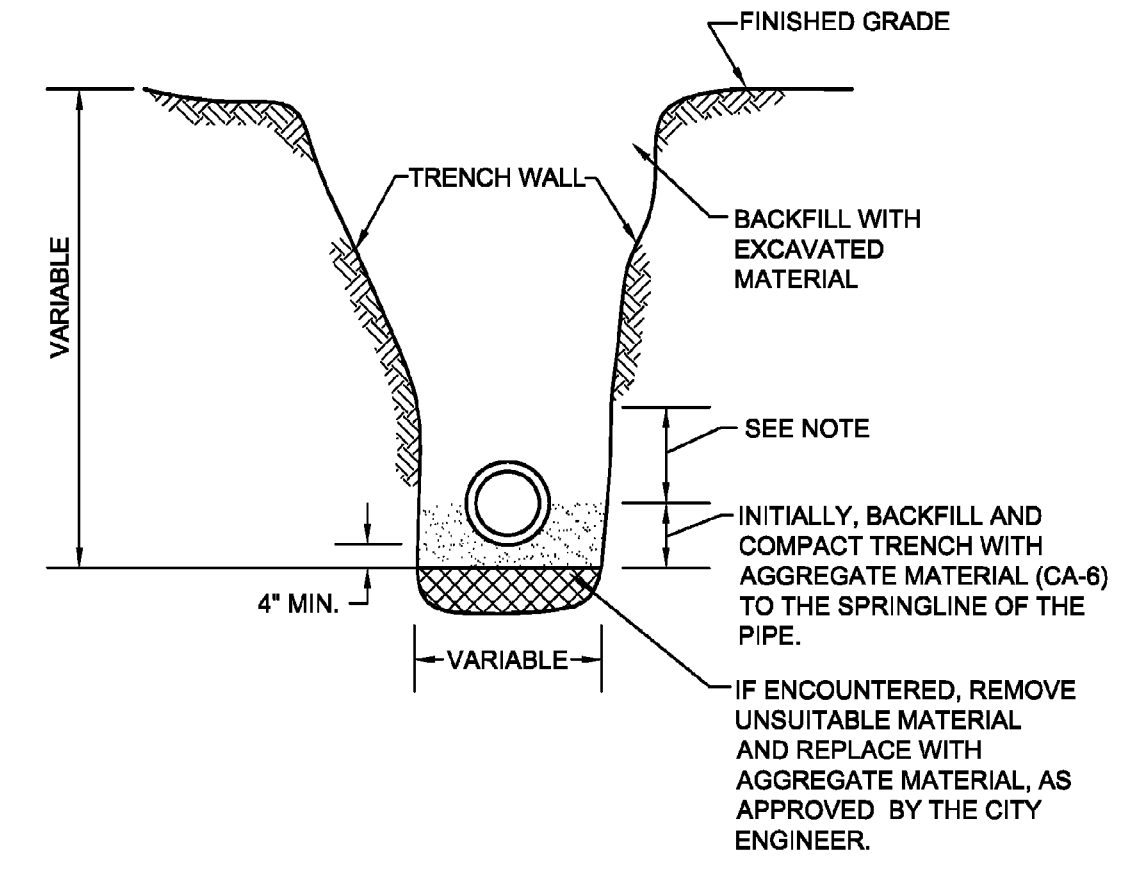
GENERAL NOTES:
Bottom slab shall be constructed with a minimum of 6" (6") thick, 4000 psi concrete in both directions with a maximum spacing of 12" (12").
Bottom slab may be connected to the floor as observed by the contractor, however, only a single tie of reinforcement around the perimeter may be utilized.
See Standard 602305 for optional Precast Reinforced Concrete Flat Slab Top.
All dimensions are in inches (inches) unless otherwise shown.

City of Naperville
STANDARD DETAIL
INLET - TYPE B
REVIS: 01/01/2013 SHEET 1 OF 1
290.20



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



NOTE:
FOR PVC AND HDPE PIPE, BACKFILL WITH AGGREGATE MATERIAL (CA-6) TO 6" ABOVE THE TOP OF PIPE.

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

REVISION RECORD

NO.	DATE	DESCRIPTION
1	08/17/2003	REVISION PER CITY REVISION DATED 08/03/03

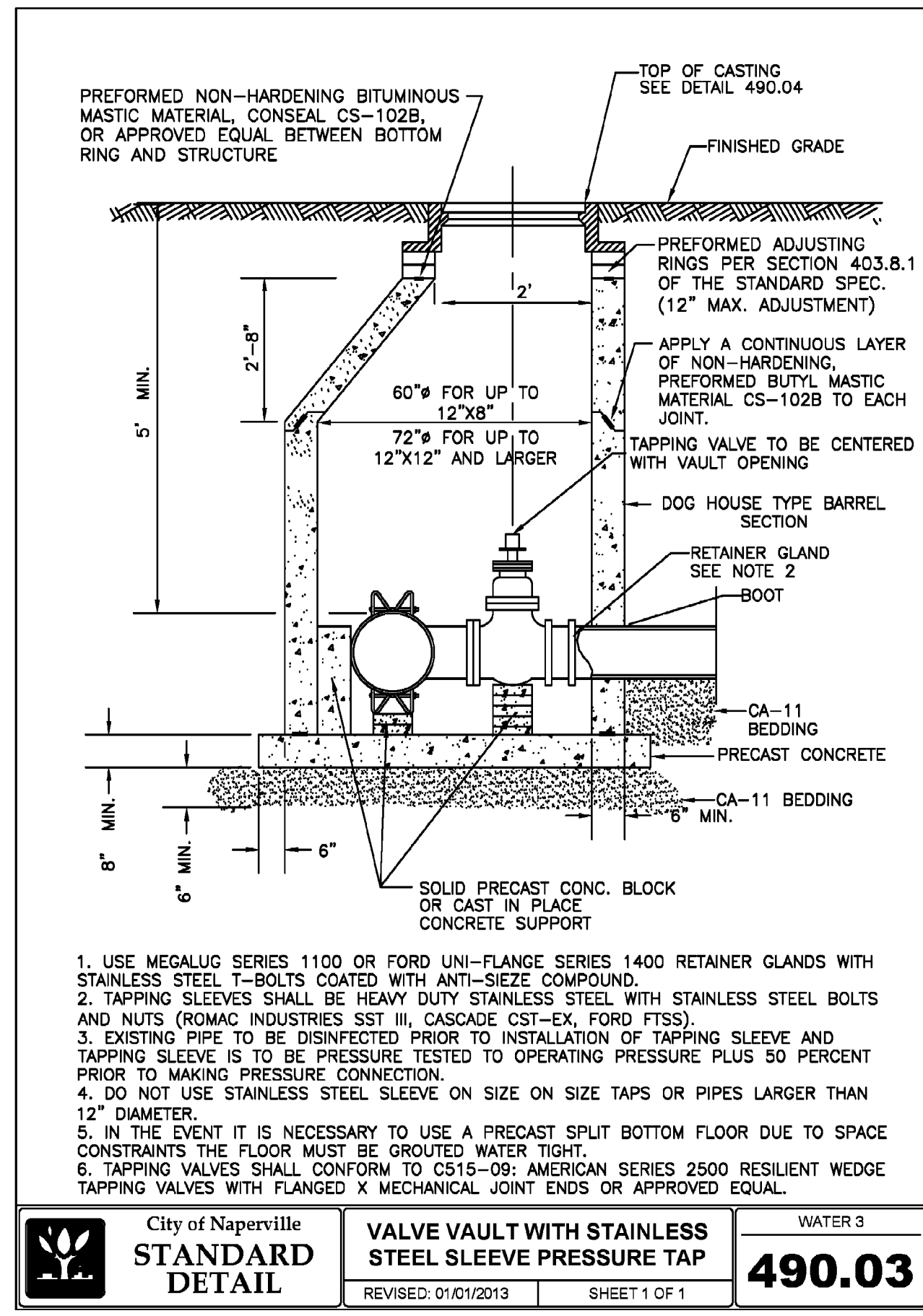
Civil & Environmental Consultants, Inc.
1230 East Diehl Road, Suite 200 - Naperville, IL 60563
630-963-6026 - 877-963-6026
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CHARLESTON DEVELOPMENT GROUP, INC.
CHARLESTON ROW III
445 AURORA AVENUE
NAPERVILLE, IL 60540

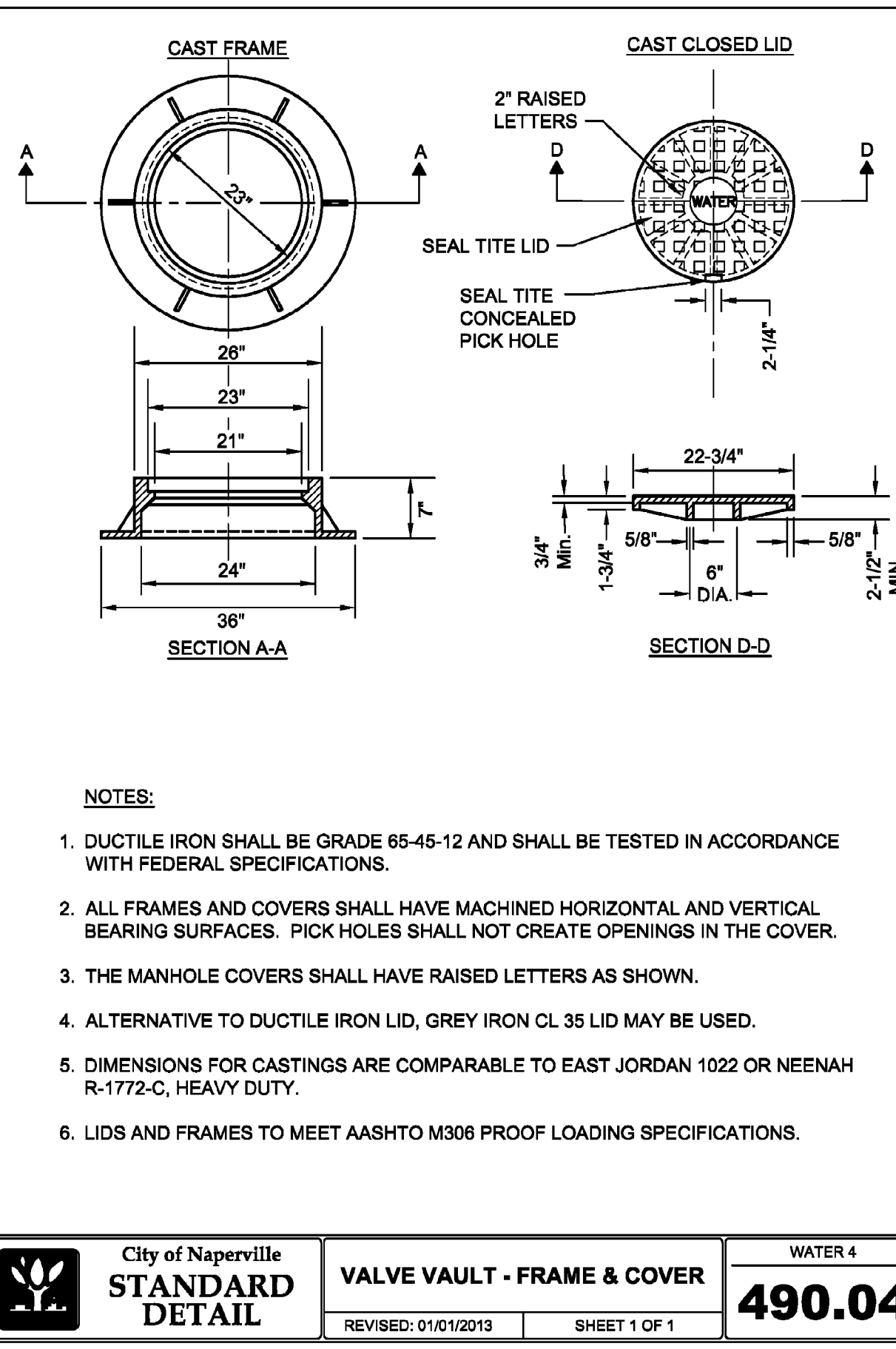
CHARLESTON ROW

DETAILS - 1

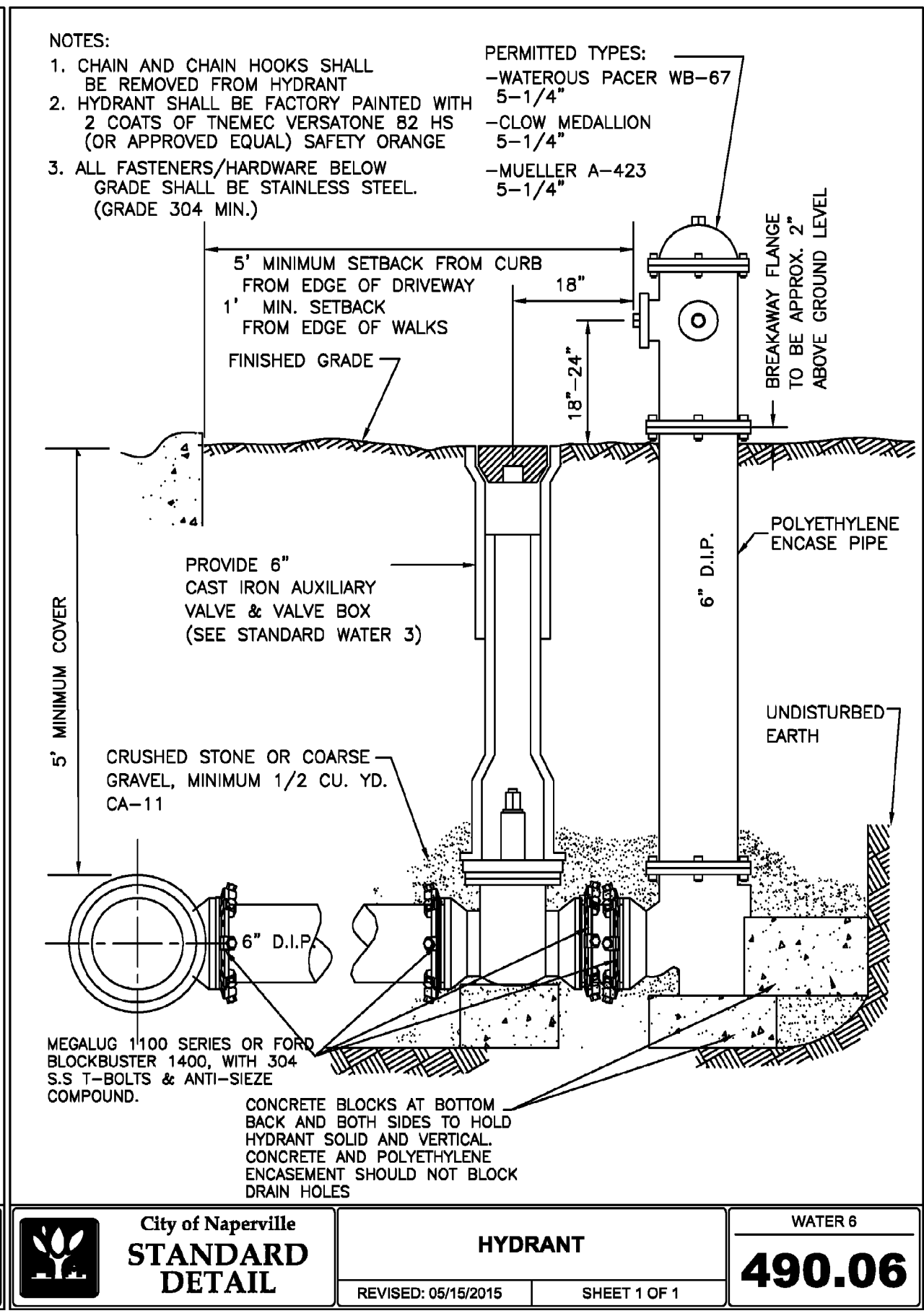
DATE: APRIL 26, 2022
DRAWN BY: SRH
DWG SCALE: NONE
PROJECT NO: 316-88A-AV00
CHECKED BY: JGC
APPROVED BY: JGC
DRAFT



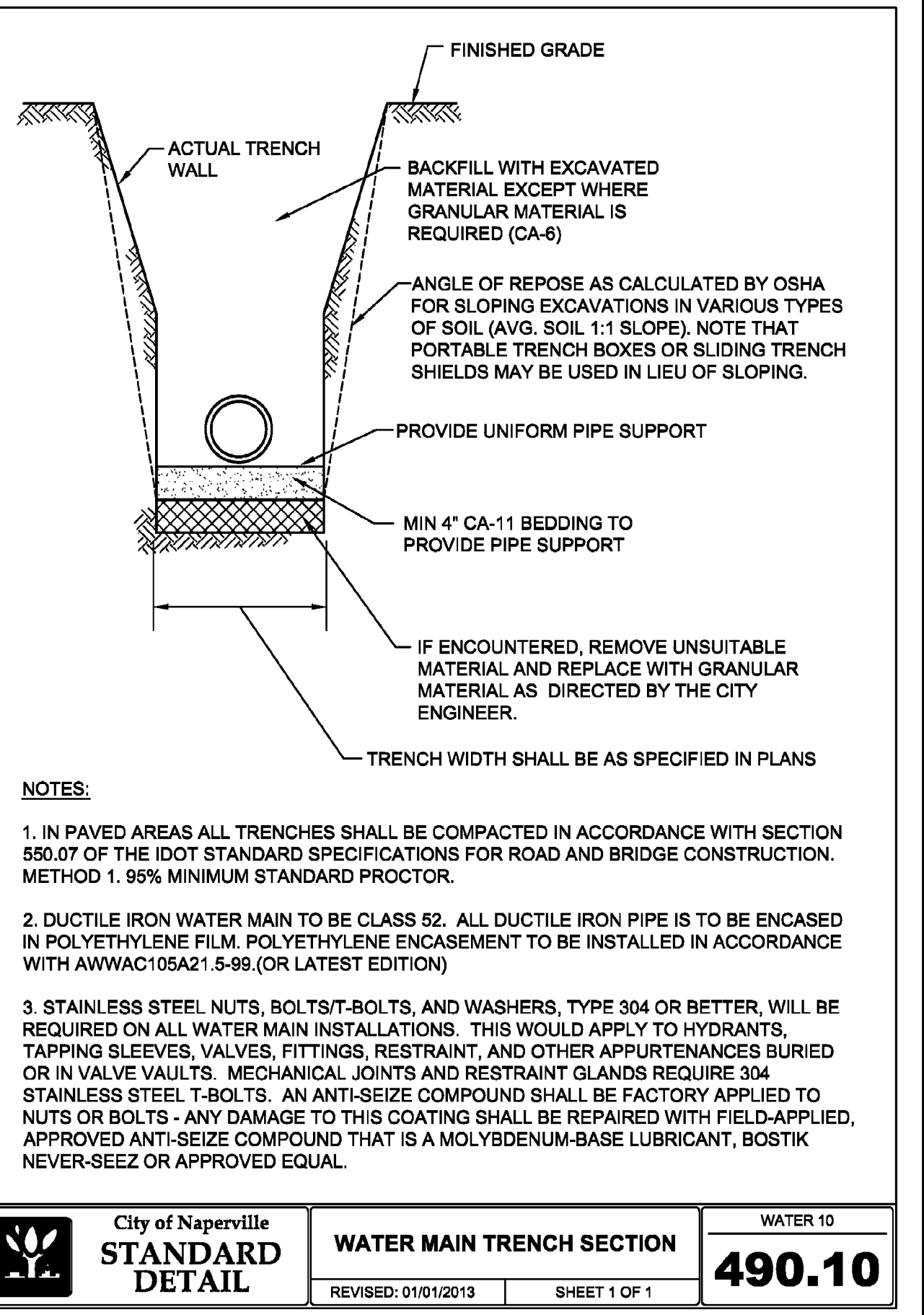
City of Naperville STANDARD DETAIL VALVE VAULT WITH STAINLESS STEEL SLEEVE PRESSURE TAP WATER 3 SHEET 1 OF 1 **490.03**



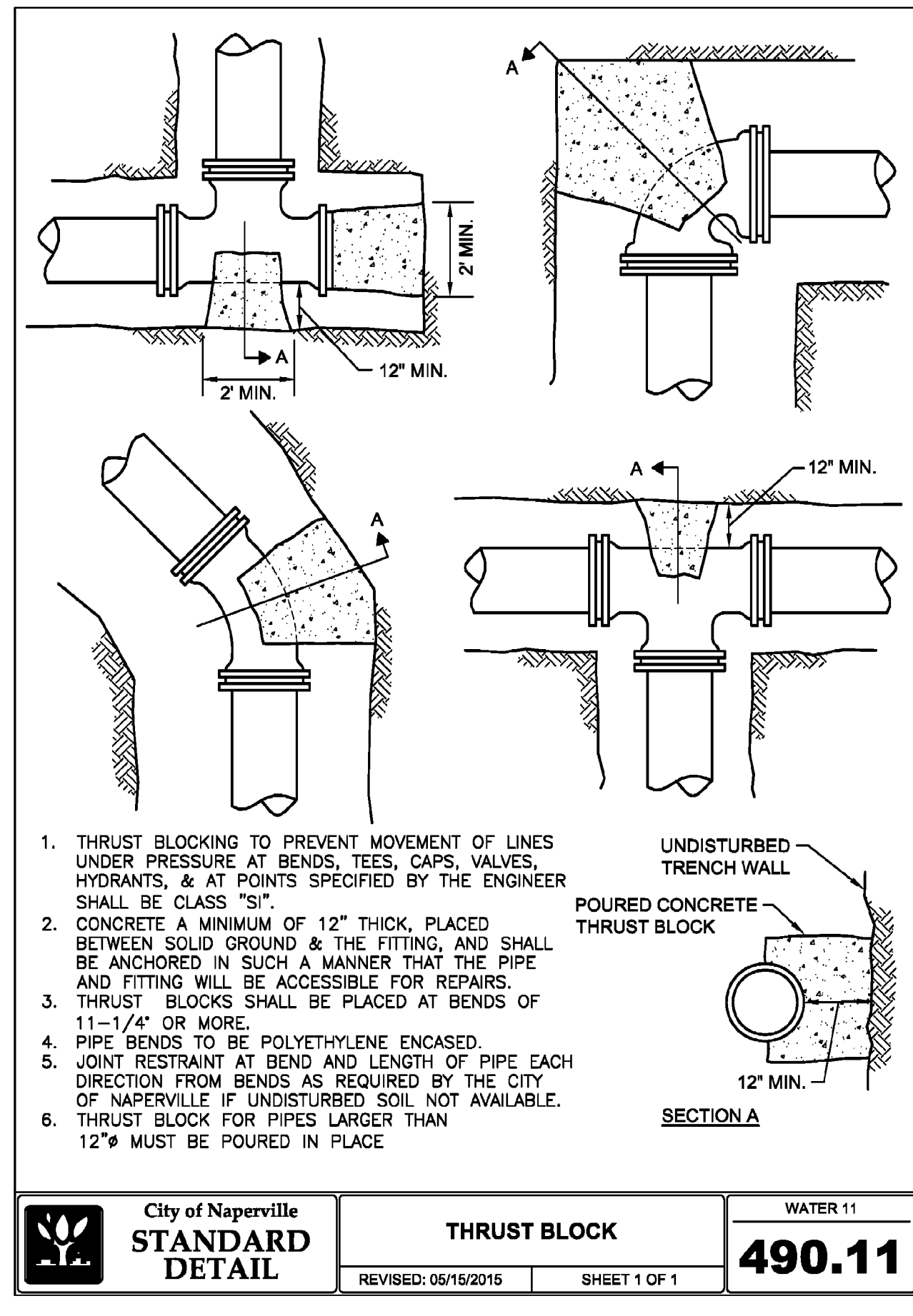
City of Naperville STANDARD DETAIL VALVE VAULT - FRAME & COVER WATER 4 SHEET 1 OF 1 **490.04**



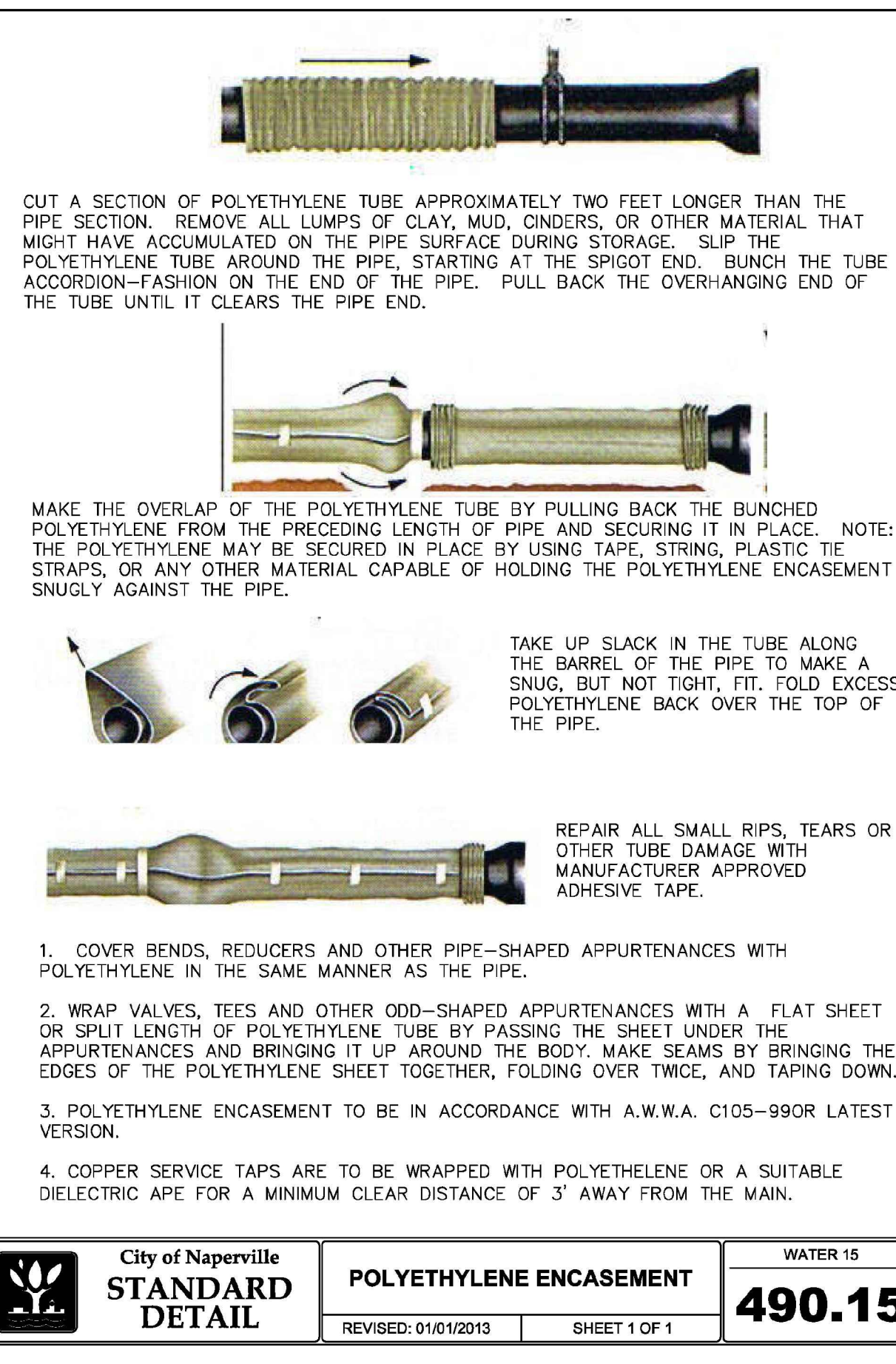
City of Naperville STANDARD DETAIL HYDRANT WATER 6 SHEET 1 OF 1 **490.06**



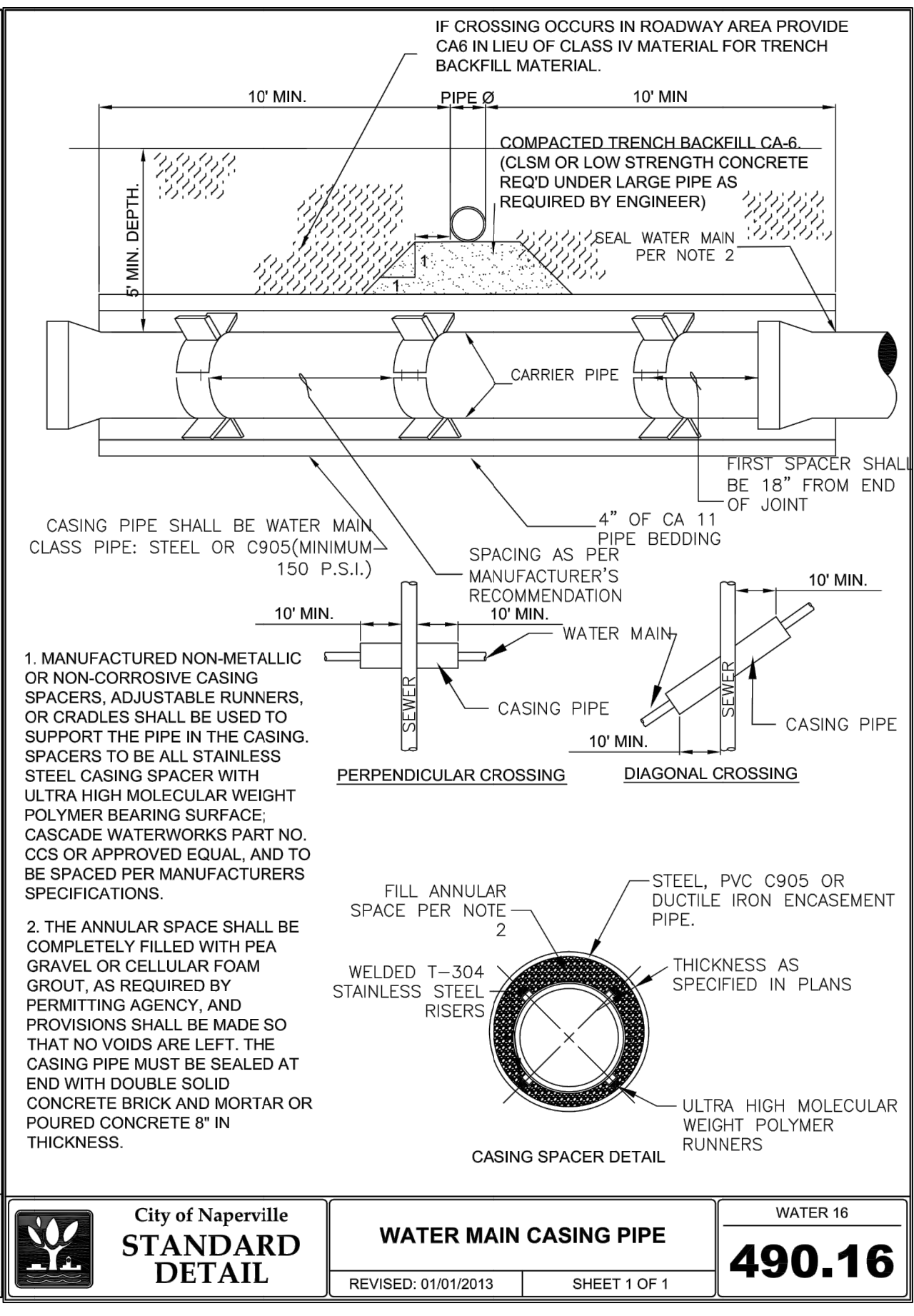
City of Naperville STANDARD DETAIL WATER MAIN TRENCH SECTION WATER 10 SHEET 1 OF 1 **490.10**



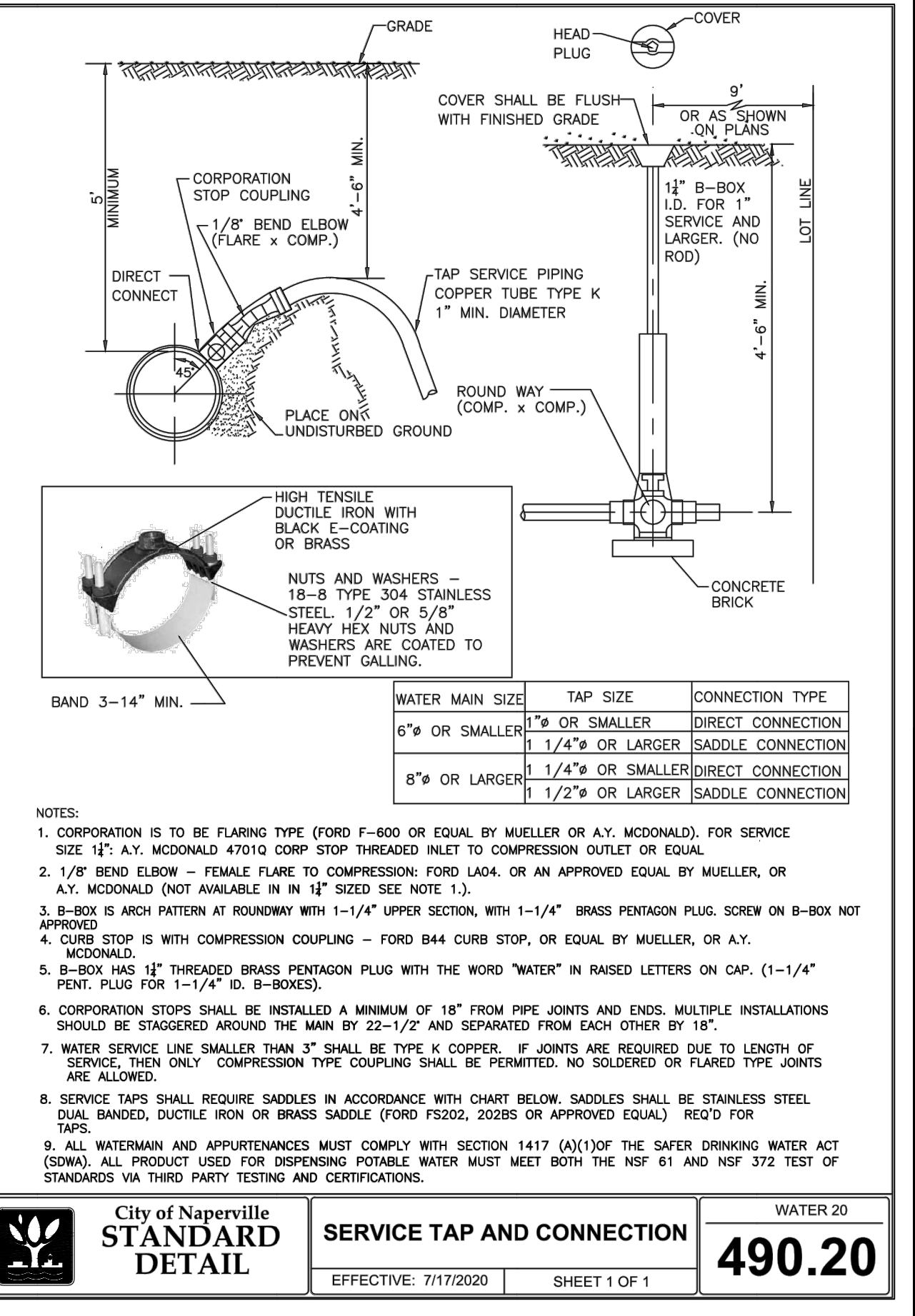
City of Naperville STANDARD DETAIL THRUST BLOCK WATER 11 SHEET 1 OF 1 **490.11**



City of Naperville STANDARD DETAIL POLYETHYLENE ENCASEMENT WATER 15 SHEET 1 OF 1 **490.15**



City of Naperville STANDARD DETAIL WATER MAIN CASING PIPE WATER 16 SHEET 1 OF 1 **490.16**



City of Naperville STANDARD DETAIL SERVICE TAP AND CONNECTION WATER 20 SHEET 1 OF 1 **490.20**

REVISION RECORD

NO.	DATE	DESCRIPTION
1	08/17/2023	REVISION PER CITY REVISION DATED 08/03/23

City of Naperville STANDARD DETAIL **490.03**

City of Naperville STANDARD DETAIL **490.04**

City of Naperville STANDARD DETAIL **490.06**

City of Naperville STANDARD DETAIL **490.10**

City of Naperville STANDARD DETAIL **490.11**

City of Naperville STANDARD DETAIL **490.15**

City of Naperville STANDARD DETAIL **490.16**

City of Naperville STANDARD DETAIL **490.20**

CHARLESTON DEVELOPMENT GROUP, INC.
CHARLESTON ROW III
445 AURORA AVENUE
NAPERVILLE, IL 60540

CHARLESTON ROW

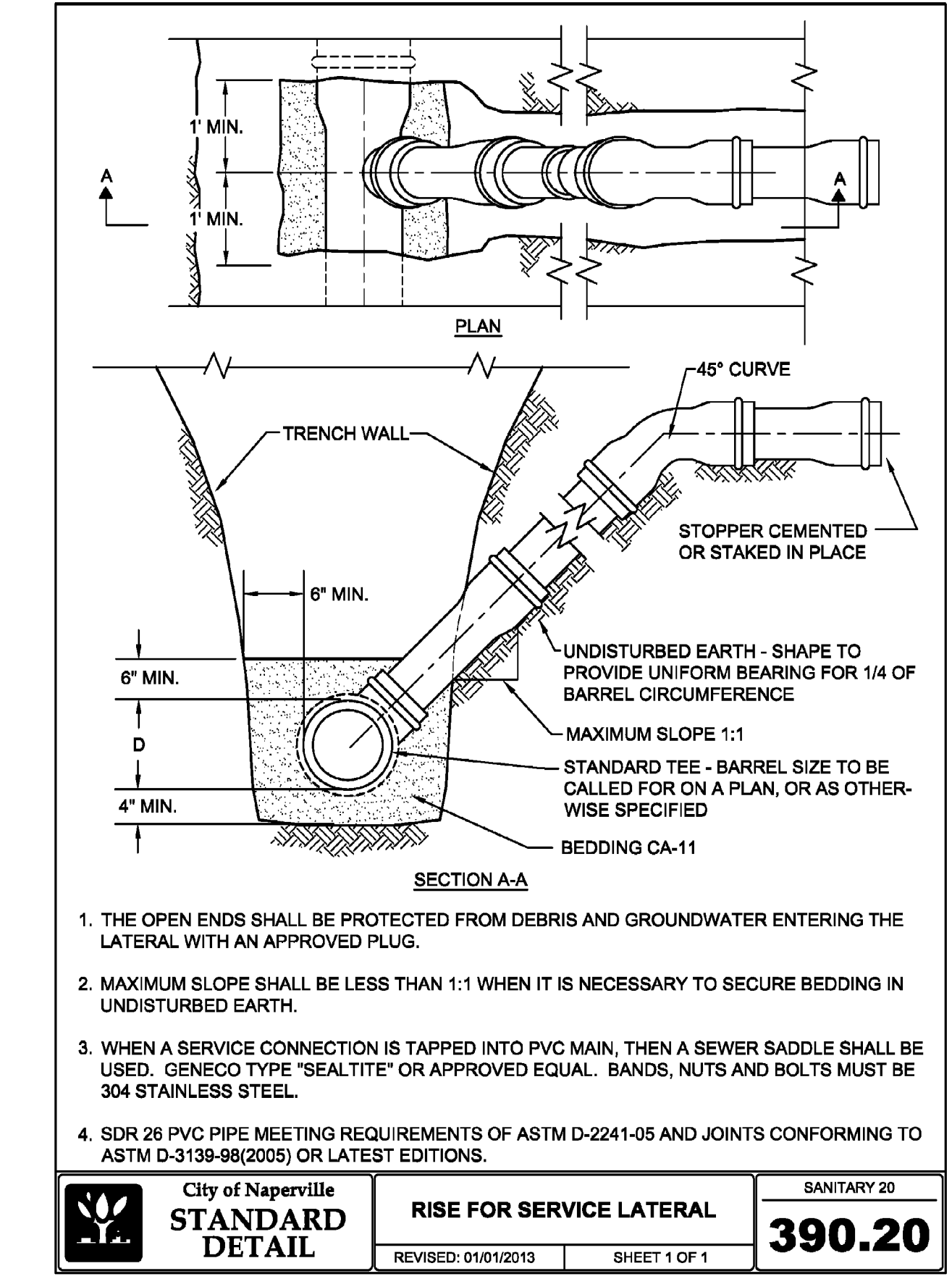
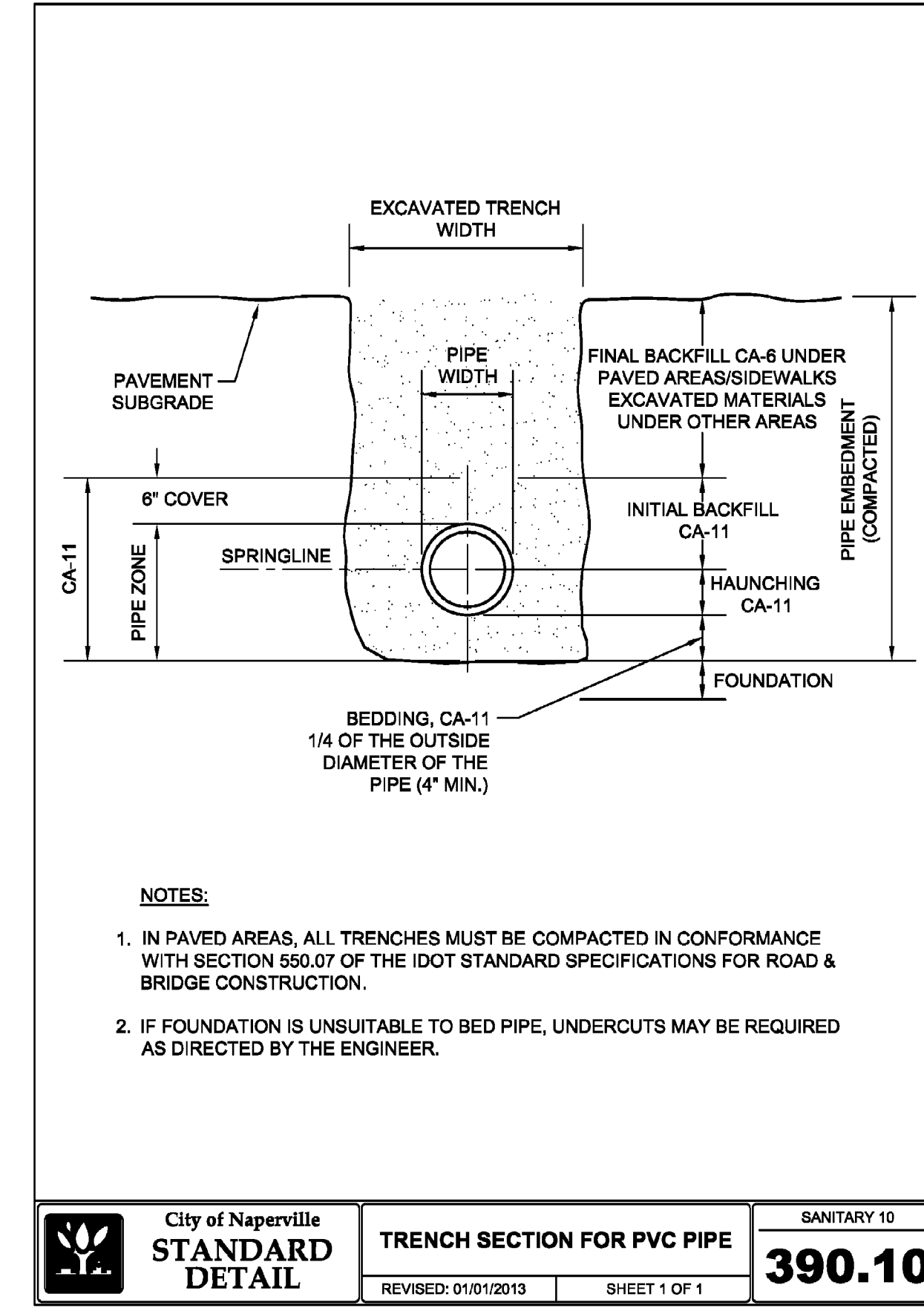
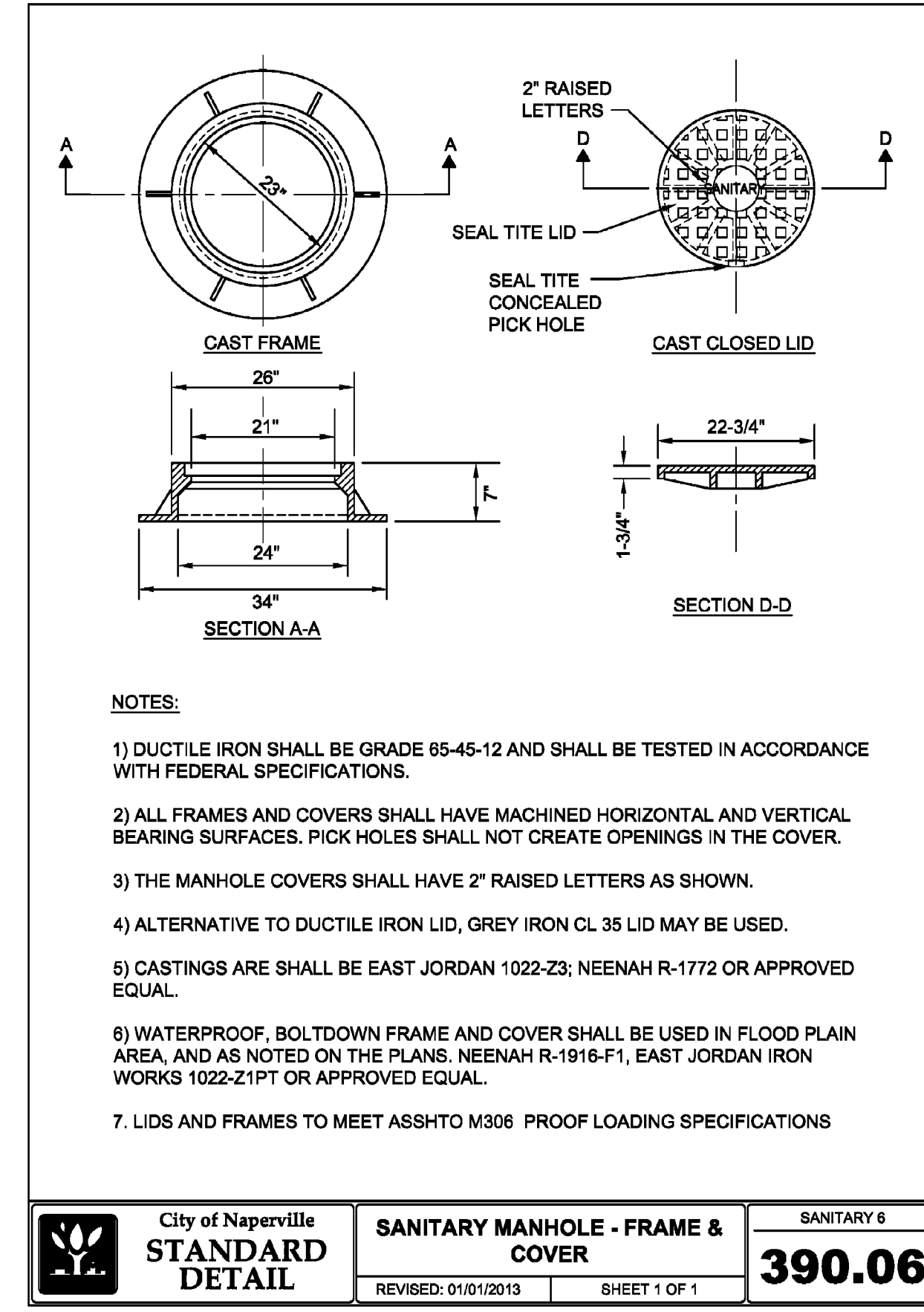
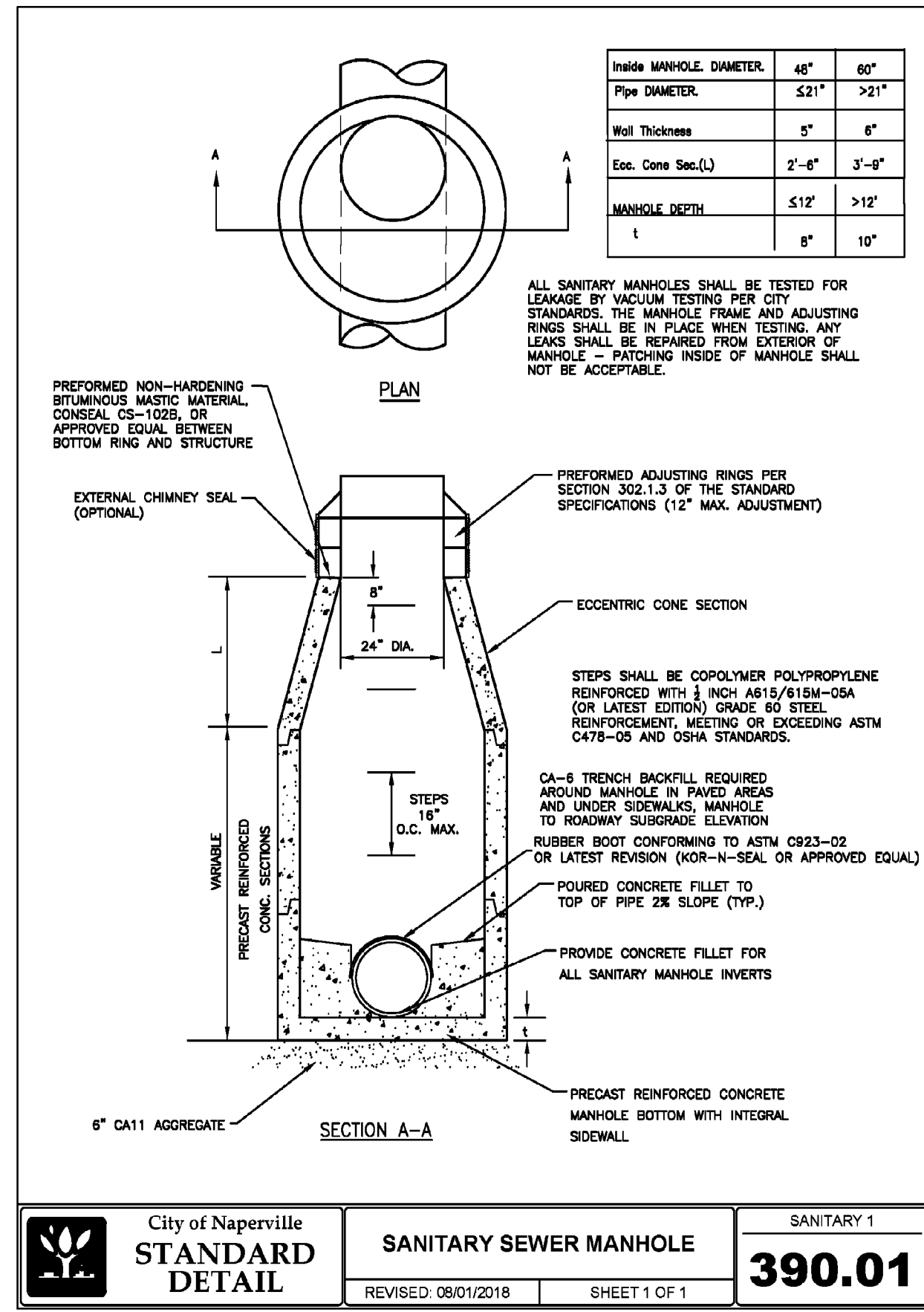
DATE: APRIL 26, 2022 DRAWN BY: SRH
DWG SCALE: NONE CHECKED BY: JGC
PROJECT NO: 316-884-AV00
APPROVED BY: DRAFT

DETAILS - 2

DRAWING NO. **C801**

SHEET 15 OF 18

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A-2000 PERFORATED PIPE

CONTECH CONSTRUCTION PRODUCTS INC.

NOMINAL DIAMETERS (IN.)	AVERAGE O.D. (SPIGOT) (IN.)	AVERAGE I.D. (IN.)	SLOT LENGTH (IN.)	SLOT WIDTH (IN.)	SLOT CENTERS (IN.)	ANGLE (DEG.)	PIPE STIFFNESS (PSI)	STANDARD PERFORATION AROUND HOLE PER FOOT (IN ²)	STANDARD PERFORATION AROUND HOLE PER FOOT (IN ²)	FULLY PERFORATED OPEN AREA PER FOOT (IN ²)
4	4.3	3.9	1.062	0.031	0.413	152	46	1.92		
6	6.4	5.9	1.375	0.031	0.516	134	46	1.99		
8	8.6	7.9	1.800	0.031	0.689	132	46	1.90		3.80
10	10.8	9.8	2.188	0.031	0.826	114	46	1.98		3.96
12	12.8	11.7	1.688	0.051	1.033	122	46	2.00		4.00
15	15.7	14.3	2.250	0.051	1.377	124	46	2.00	1.71	4.00/3.42
18	19.2	17.6	2.250	0.051	1.377	120	46	2.00	1.71	4.00/3.42
21	22.6	20.7					46			2.70 5.40
24	25.6	23.5					46			2.70 5.40
30	32.2	29.5					46			2.20 4.40
36	38.7	35.5					46			2.00 4.00

SCOPE: THIS SPECIFICATION INCLUDES MATERIALS, TEST METHODS AND INSTALLATION REQUIREMENTS FOR 4 TO 36-INCH DIAMETER POLYVINYL CHLORIDE (PVC) CORRUGATED PIPE WITH A SMOOTH INTERIOR. THE REQUIREMENTS OF THIS SPECIFICATION ARE INTENDED TO PROVIDE PIPE AND FITTINGS SUITABLE FOR UNDERGROUND USE IN NON-PRESSURE APPLICATIONS SUCH AS SANITARY SEWERS, STORM SEWERS, DRAINAGE AND UNDERDRAINS.

PIPE: PVC CORRUGATED PIPE WITH A SMOOTH INTERIOR SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION F949. PIPE AND FITTINGS SHALL BE HOMOGENEOUS THROUGHOUT AND FREE FROM VISIBLE CRACKS, HOLES, FOREIGN INCLUSIONS OR OTHER MAJOR DEFECTS. PIPE SHALL BE MANUFACTURED TO 46 PSI STIFFNESS WHEN TESTED IN ACCORDANCE WITH ASTM TEST METHOD D2412. THERE SHALL BE NO EVIDENCE OF SPLITTING, CRACKING OR BREAKING WHEN THE PIPE IS TESTED PER ASTM TEST METHOD D2412 IN ACCORDANCE WITH ASTM F949 SECTION 7.5 AND ASTM F754 SECTION 8.5. THE PIPE SHALL BE MADE OF PVC COMPOUND HAVING A MINIMUM CELL CLASSIFICATION OF 12454 AS DEFINED IN ASTM SPECIFICATION D1784.

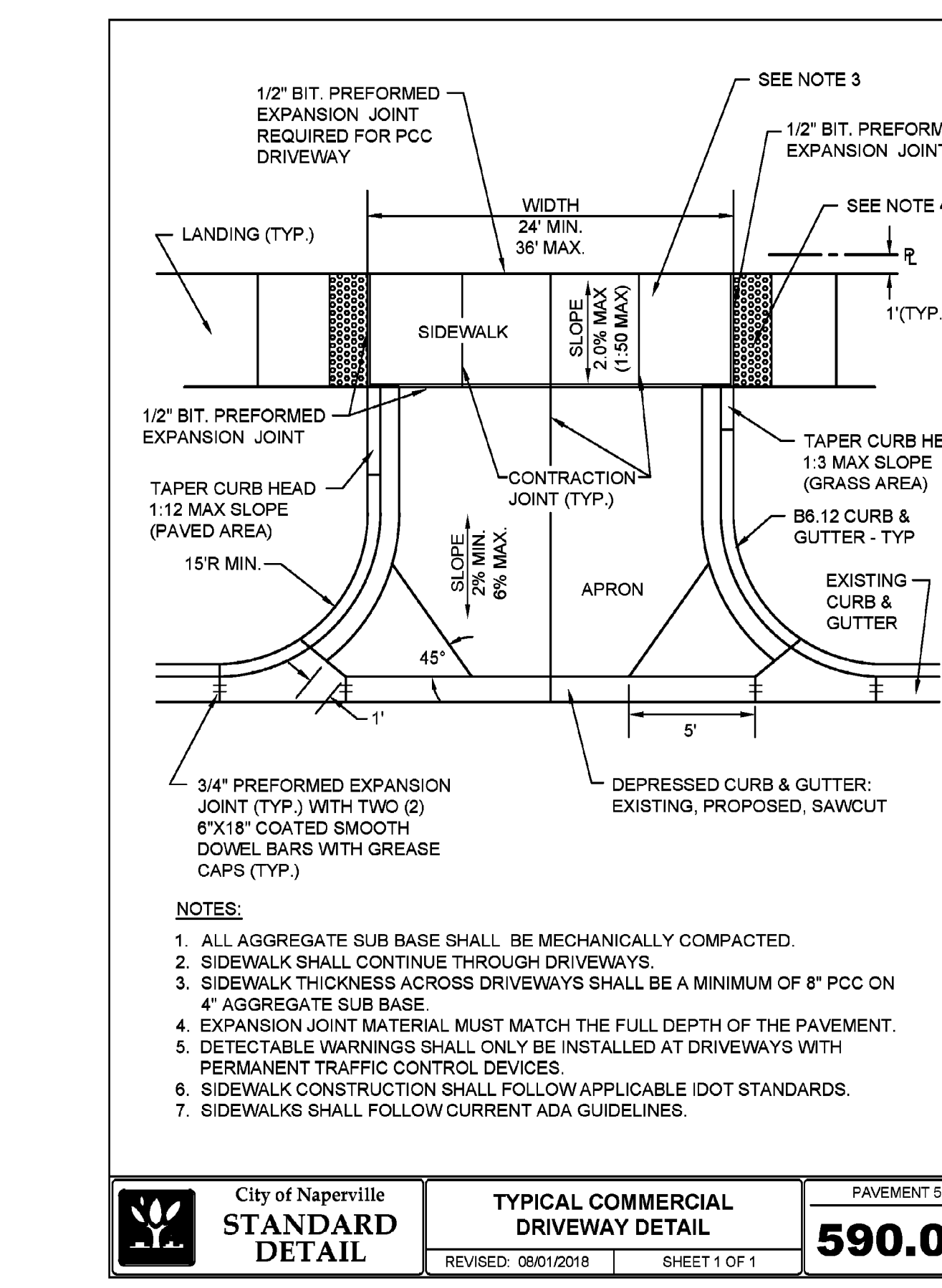
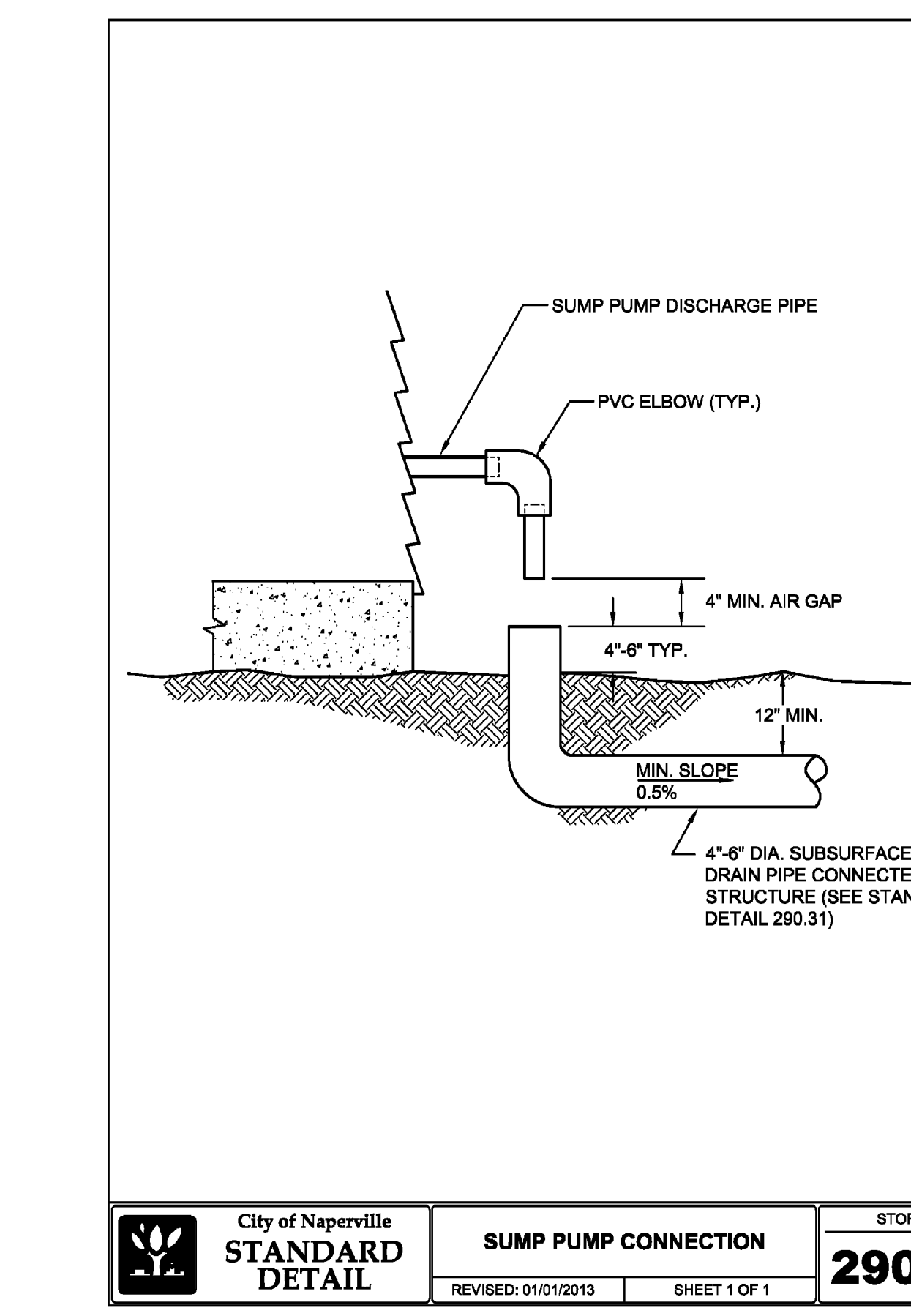
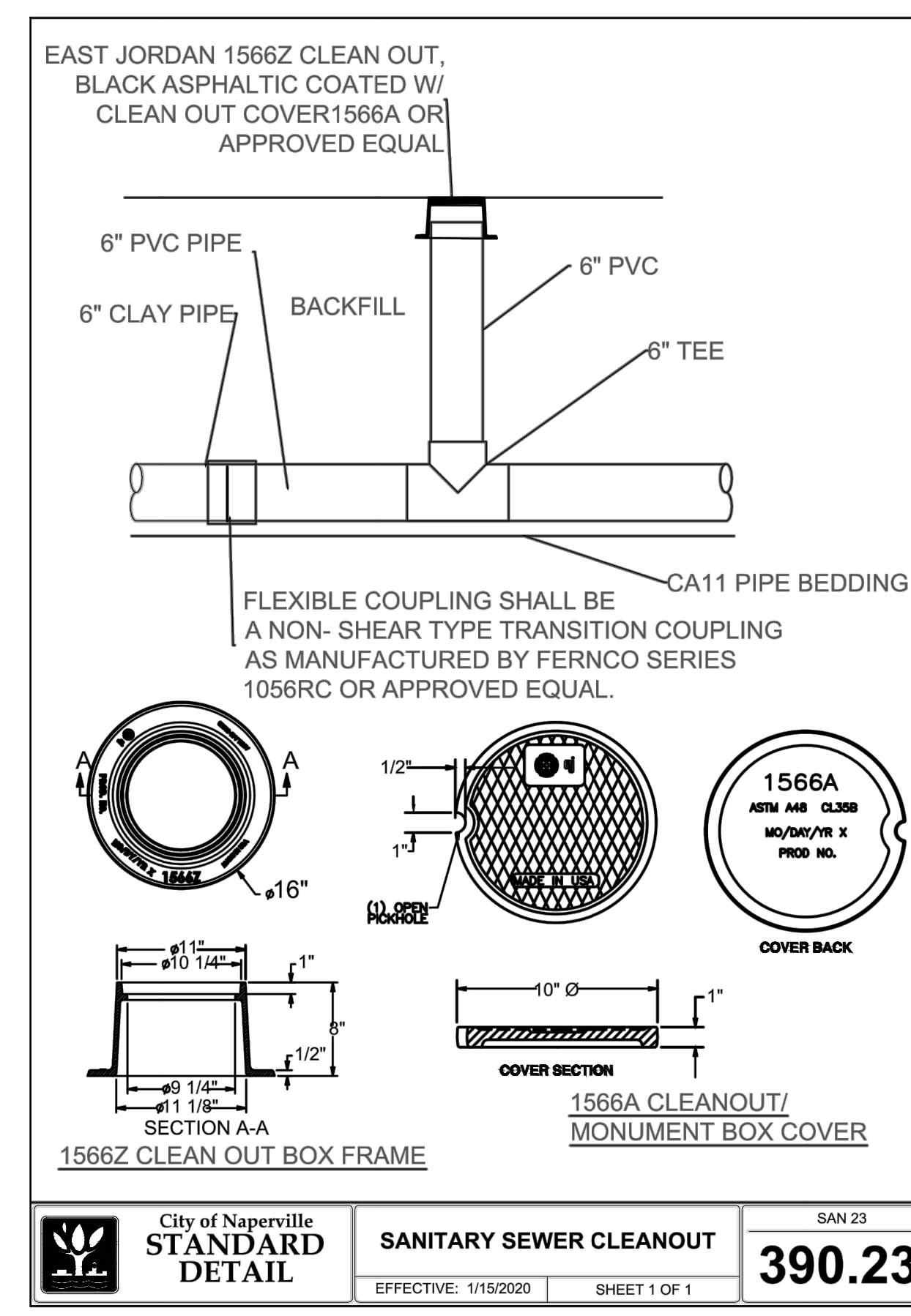
FITTINGS: ALL FITTINGS FOR PVC CORRUGATED SEWER PIPE WITH A SMOOTH INTERIOR SHALL CONFORM TO ASTM F949, SECTION 5.2.3 OR F794, SECTION 7.2.4. TO INSURE COMPATIBILITY, THE PIPE MANUFACTURER SHALL PROVIDE ALL FITTINGS.

JOINTS: ALL JOINTS SHALL BE MADE WITH INTEGRALLY-FORMED BELL AND SPIGOT GASKETED CONNECTIONS. THE MANUFACTURER SHALL PROVIDE DOCUMENTATION SHOWING NO LEAKAGE WHEN GASKETED PIPE JOINTS ARE TESTED IN ACCORDANCE WITH ASTM TEST METHOD D3212. ELASTOMER GASKETS SHALL MEET THE REQUIREMENTS OF ASTM DESIGNATION F477.

PERFORATIONS: FOR SLOTTED, STANDARD PERFORATED PIPE, THE PERFORATION DIMENSIONS SHALL BE IN ACCORDANCE WITH ASTM F949 TABLE 5 AND SECTION 7.9. INSTEAD OF SLOTS, ROUND HOLES (MIN. 1/4") MAY BE USED FOR 15"-18" DIAMETER PIPE AND (MIN. 3/8") FOR 21"-36" DIAMETER PIPE.

CONTECH ID# 0000

City of Naperville
STANDARD DETAIL
SANITARY SEWER CLEANOUT
EFFECTIVE: 1/15/2020
SHEET 1 OF 1
390.23
SAN 23



REVISION RECORD

NO.	DATE	DESCRIPTION
1	08/01/2020	REVERSE PER CITY REVISION DATED 08/03/22

CHARLESTON DEVELOPMENT GROUP, INC.
CHARLESTON ROW III
445 AURORA AVENUE
NAPERVILLE, IL 60540

Civil & Environmental Consultants, Inc.
1230 East Diehl Road, Suite 200 - Naperville, IL 60563
630-963-6026 - 877-963-6026
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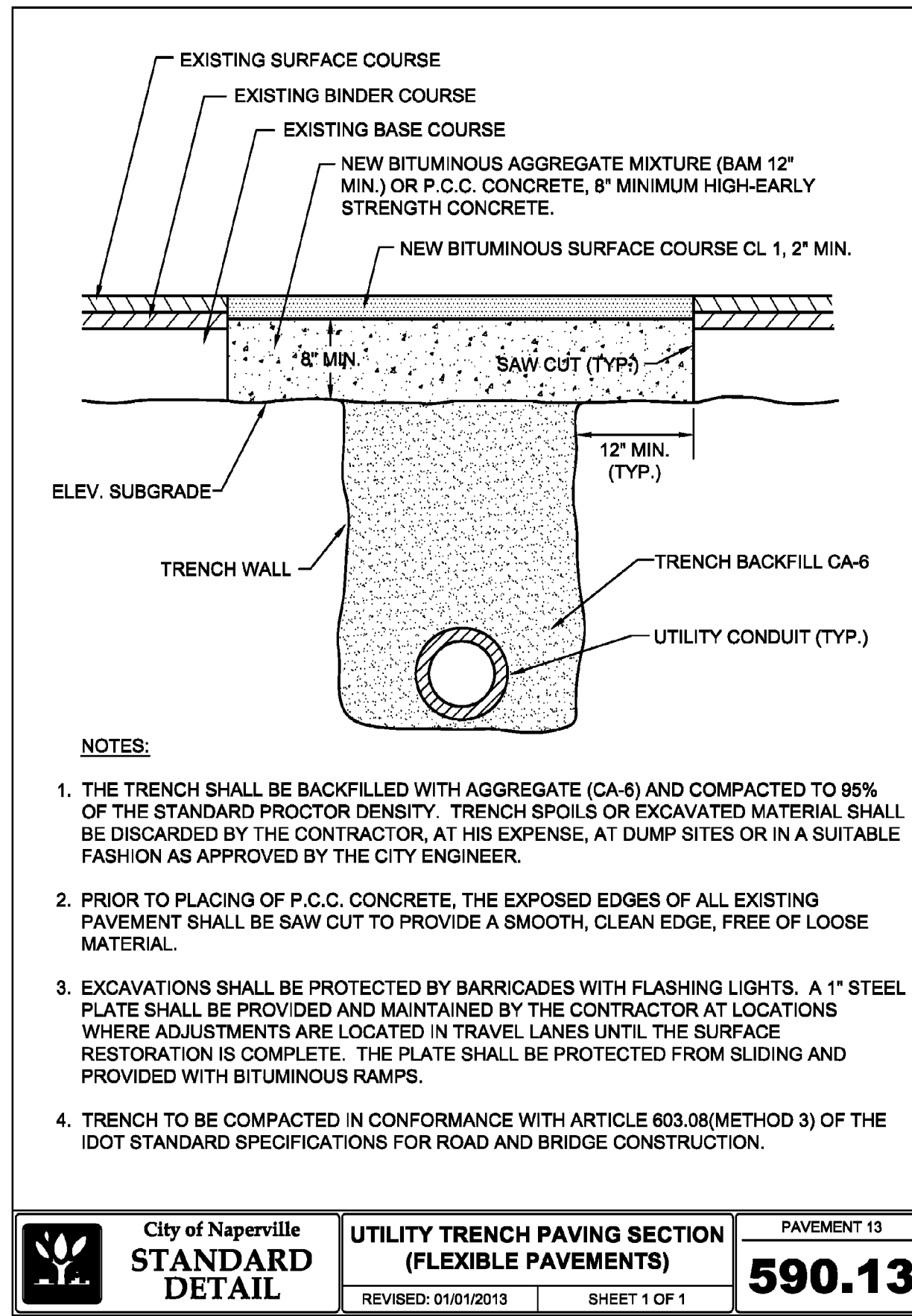
CHARLESTON ROW

DETAILS - 3

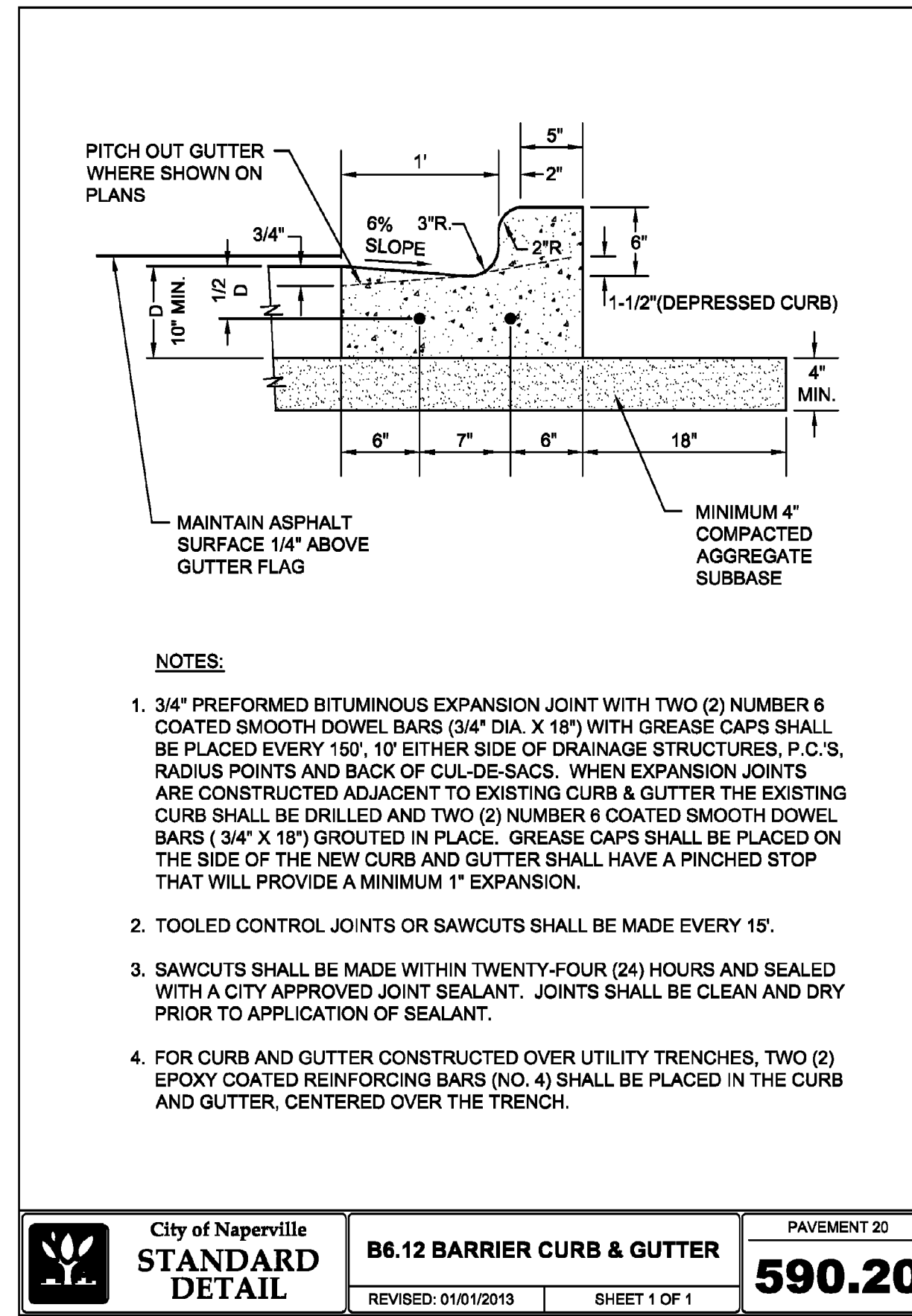
DATE:	APRIL 26, 2022	DRAWN BY:	SRH
DWG SCALE:	NONE	CHECKED BY:	JGC
PROJECT NO.:	316-884-AV00	APPROVED BY:	
			DRAFT

DRAWING NO. **C802**

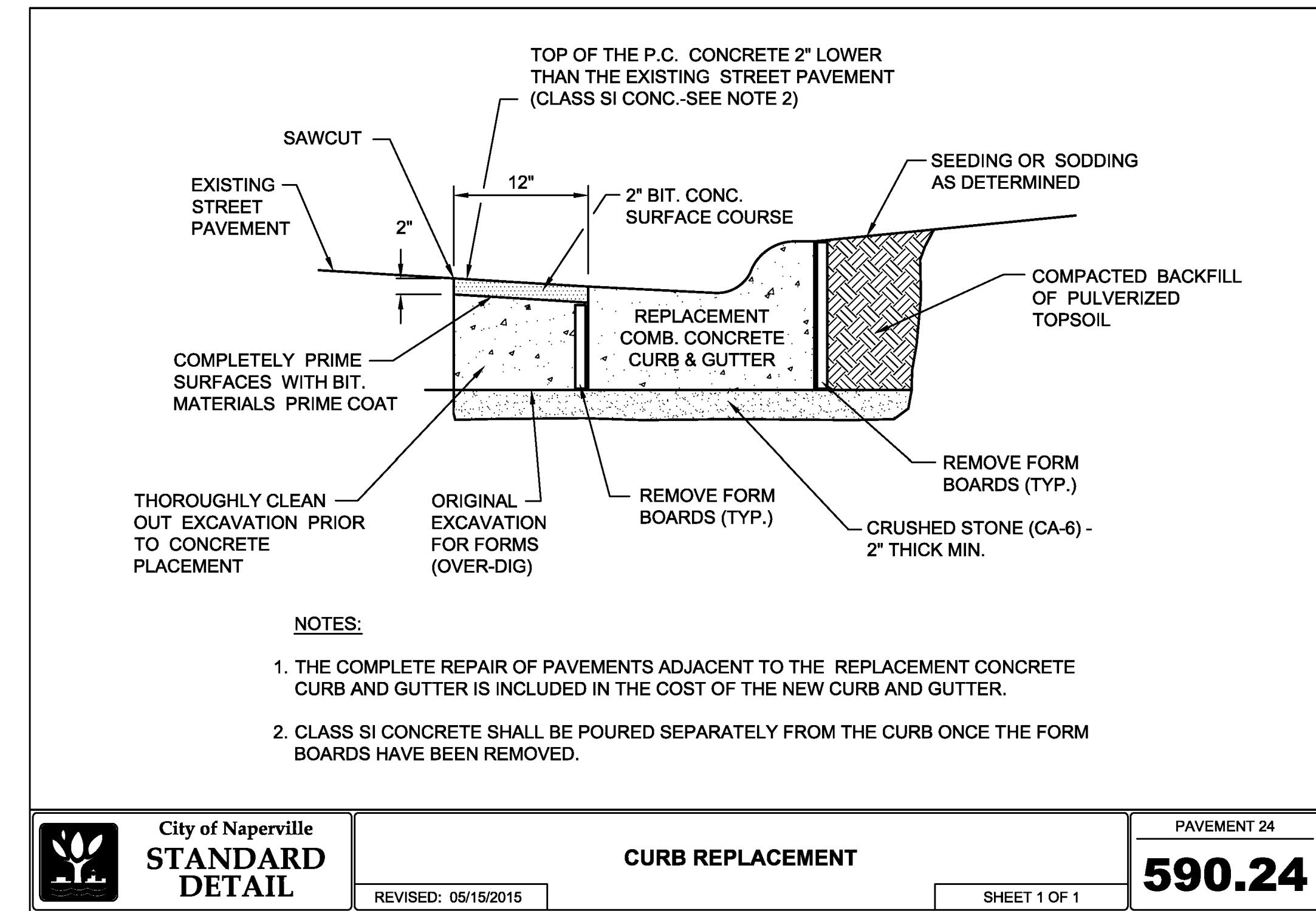
SHEET 16 OF 18



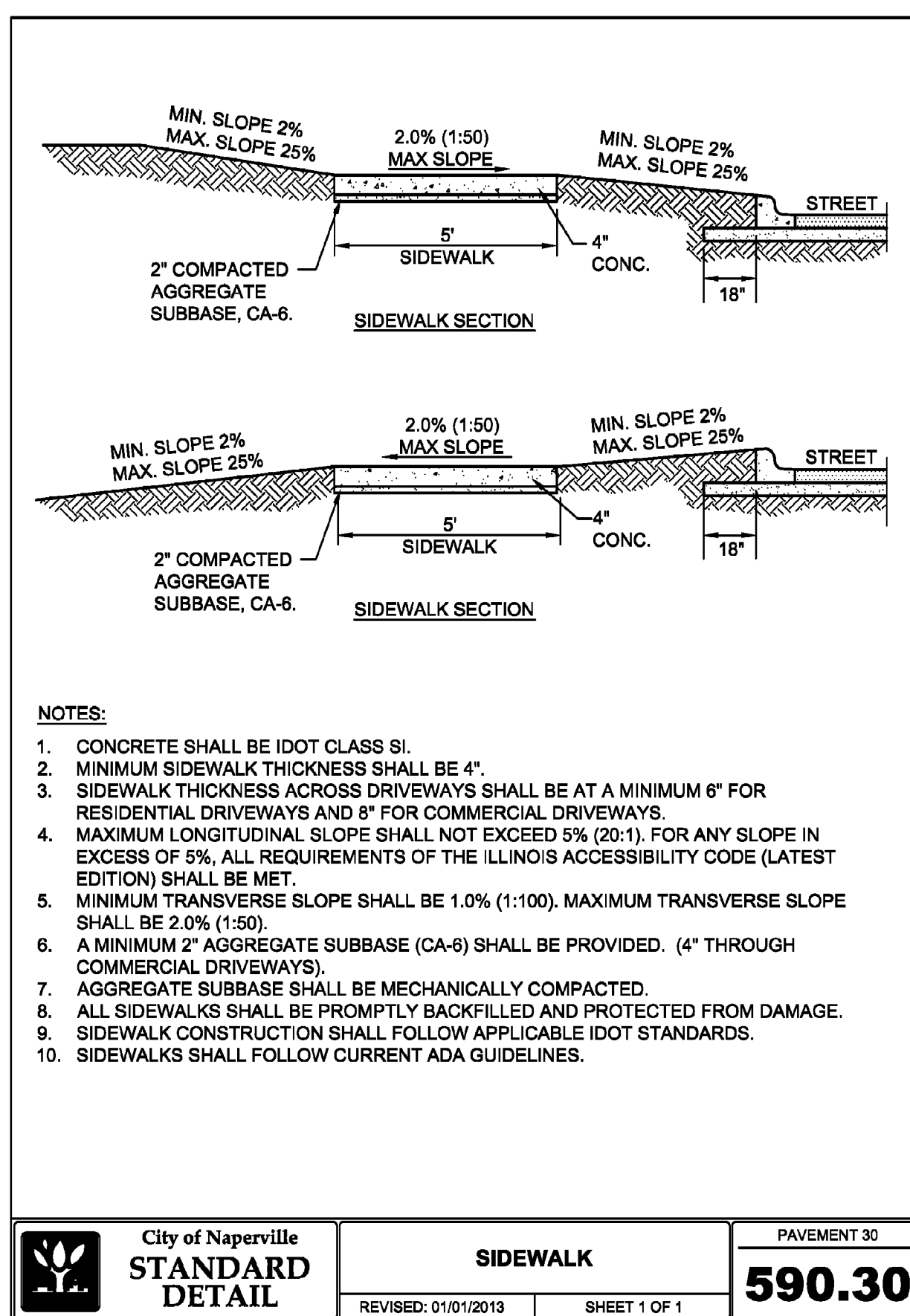
City of Naperville STANDARD DETAIL	UTILITY TRENCH PAVING SECTION (FLEXIBLE PAVEMENTS) REVISED: 01/01/2013 SHEET 1 OF 1	PAVEMENT 13
		590.13



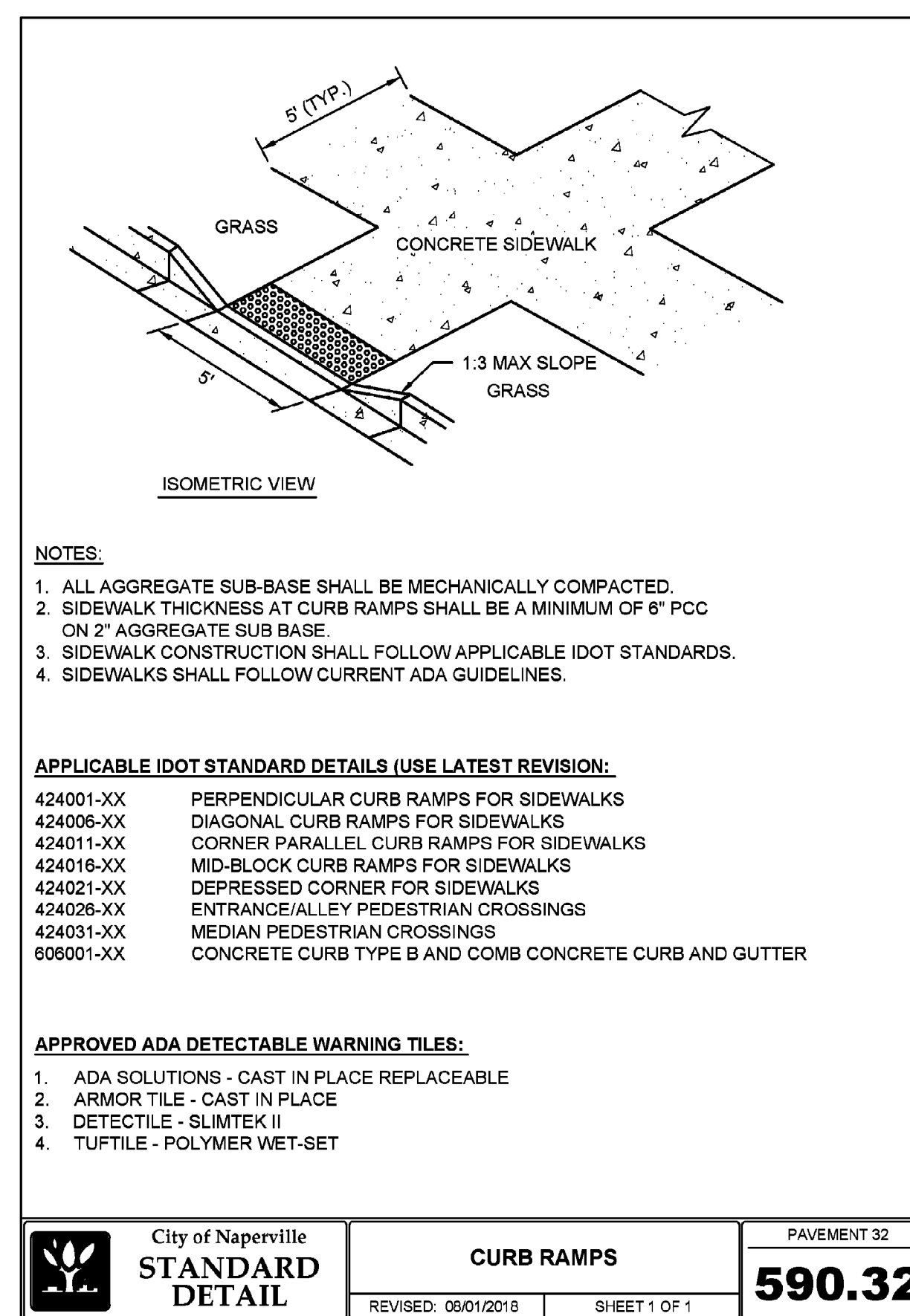
City of Naperville STANDARD DETAIL	B6.12 BARRIER CURB & GUTTER REVISED: 01/01/2013 SHEET 1 OF 1	PAVEMENT 20
		590.20



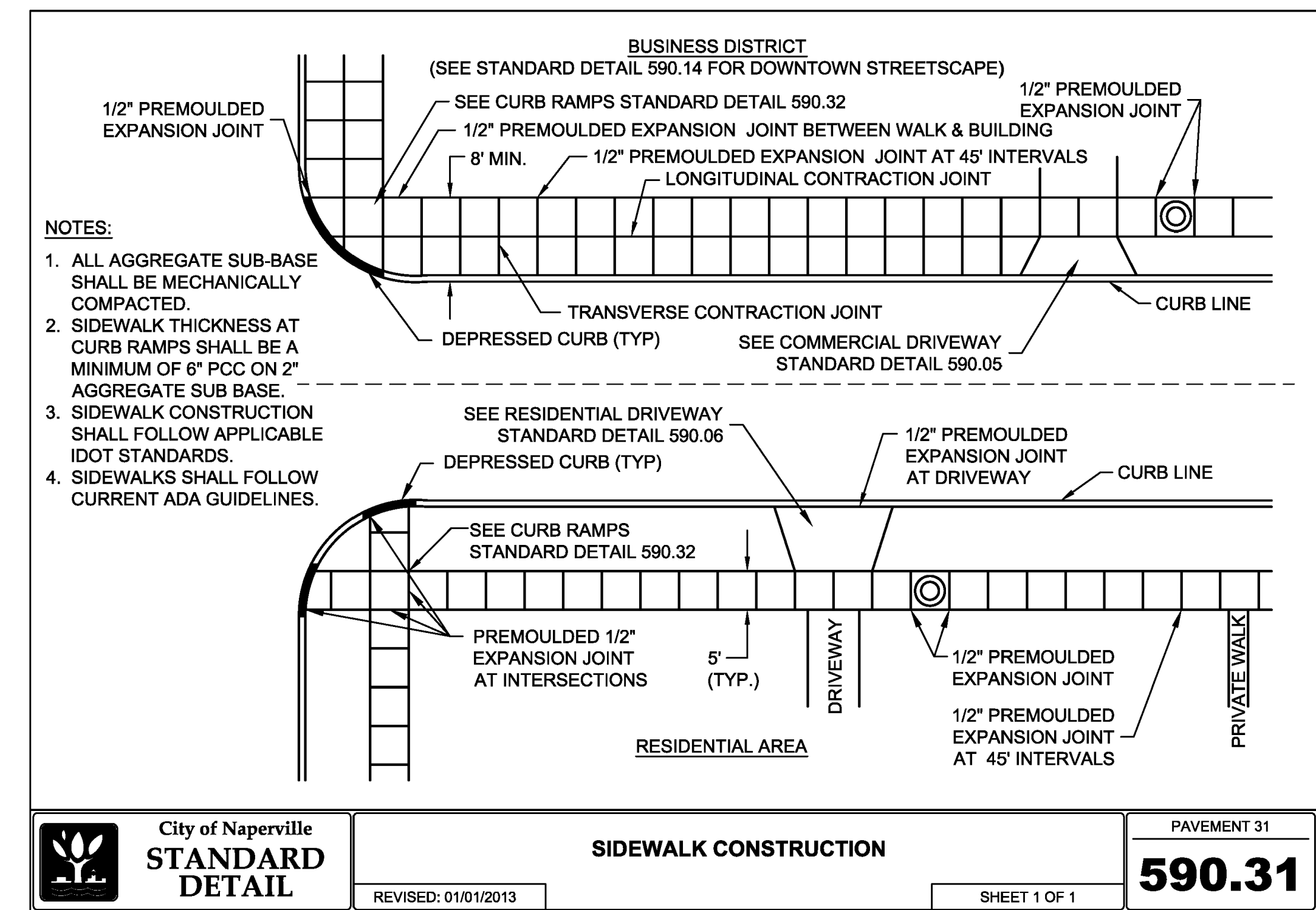
City of Naperville STANDARD DETAIL	CURB REPLACEMENT REVISED: 05/15/2015 SHEET 1 OF 1	PAVEMENT 24
		590.24



City of Naperville STANDARD DETAIL	SIDEWALK REVISED: 01/01/2013 SHEET 1 OF 1	PAVEMENT 30
		590.30



City of Naperville STANDARD DETAIL	CURB RAMPS REVISED: 06/01/2010 SHEET 1 OF 1	PAVEMENT 32
		590.32



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

REVISION RECORD	
NO.	DATE
1	04/26/2022
DESCRIPTION	
REVISED PER CITY REVISION DATED 04/26/22	

CHARLESTON DEVELOPMENT GROUP, INC.
 CHARLESTON ROW III
 445 AURORA AVENUE
 NAPERVILLE, IL 60540

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 1230 East Diehl Road, Suite 200 - Naperville, IL 60563
 630-963-6026 - 877-963-6026
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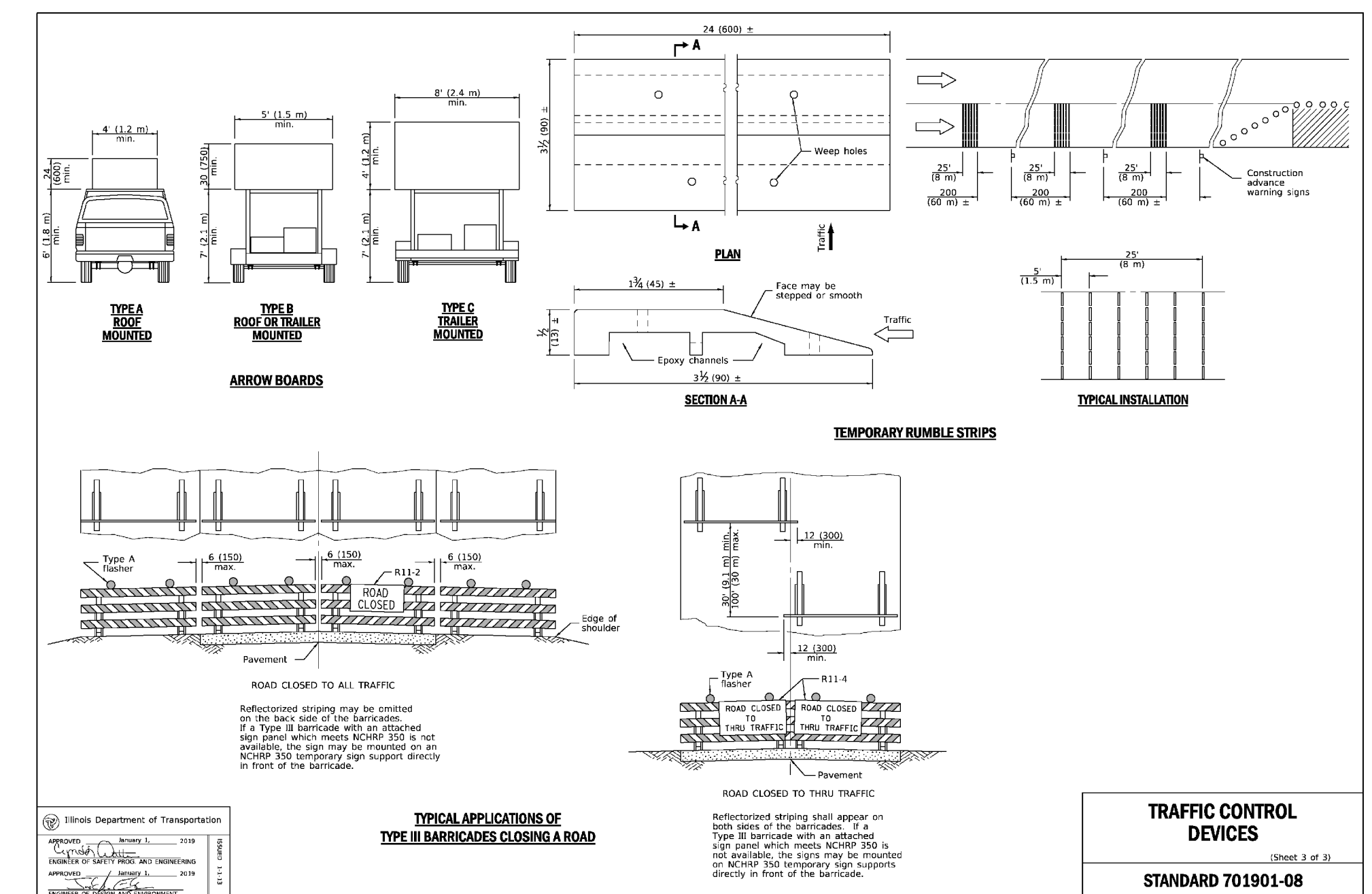
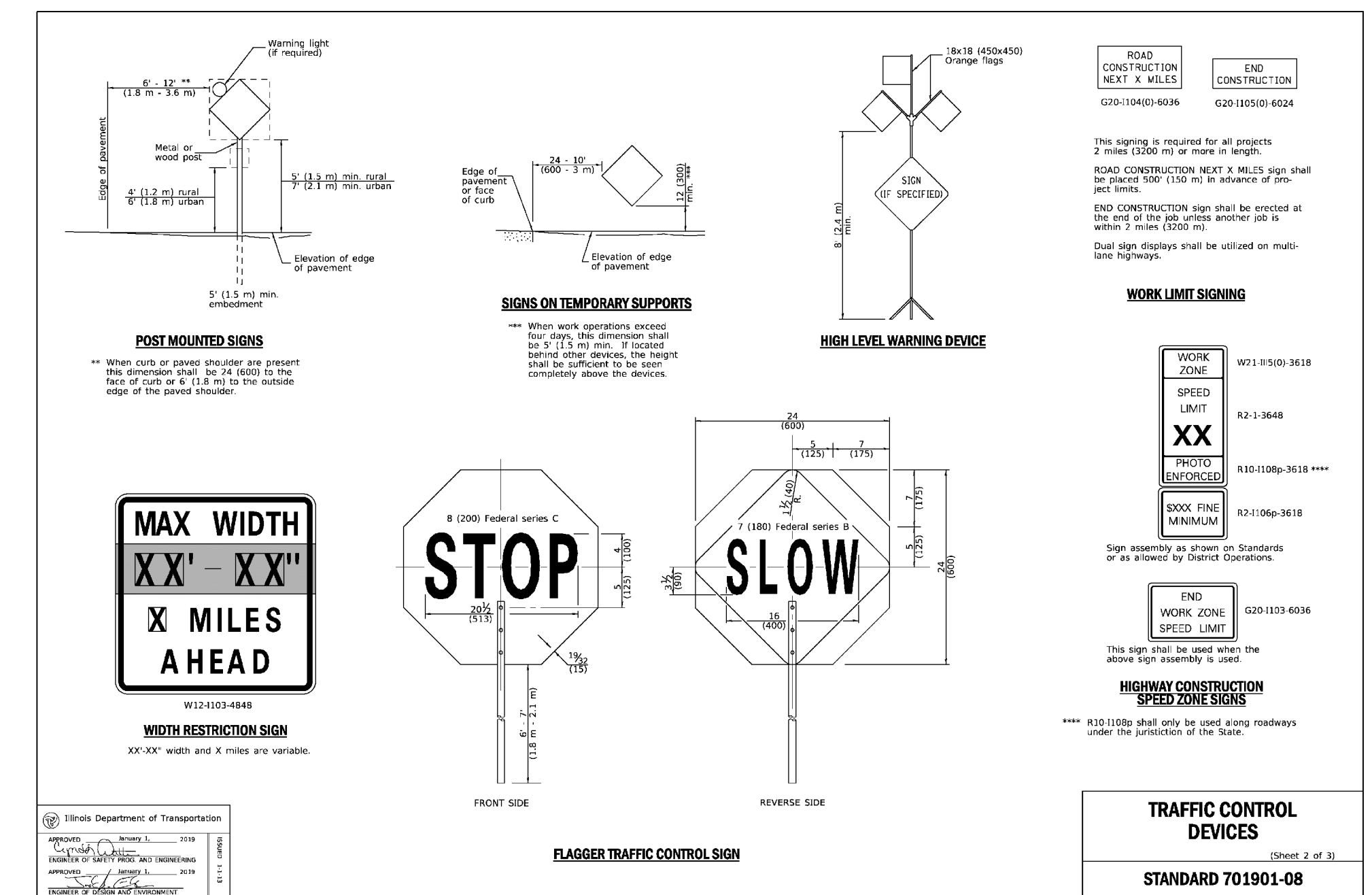
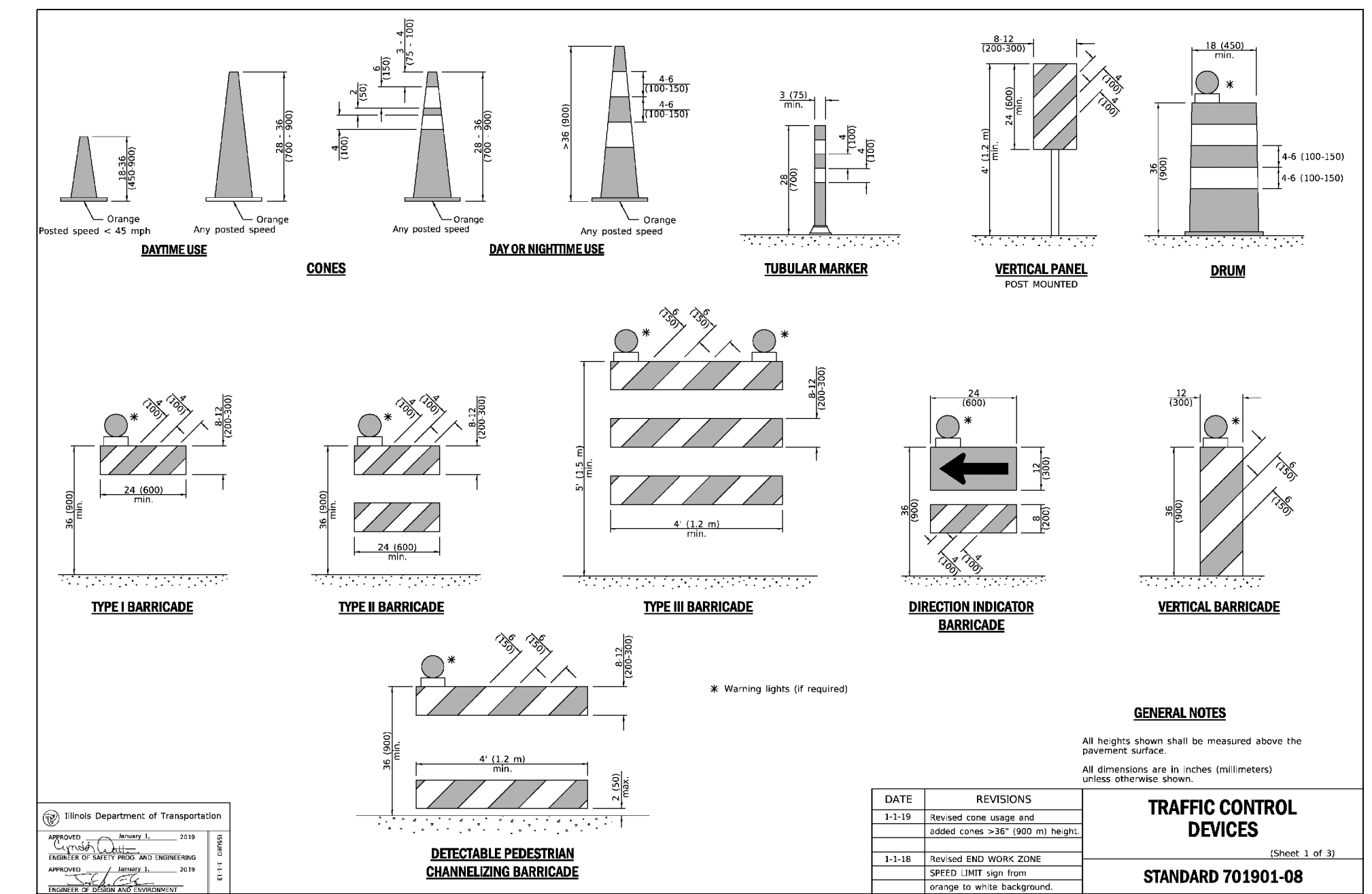
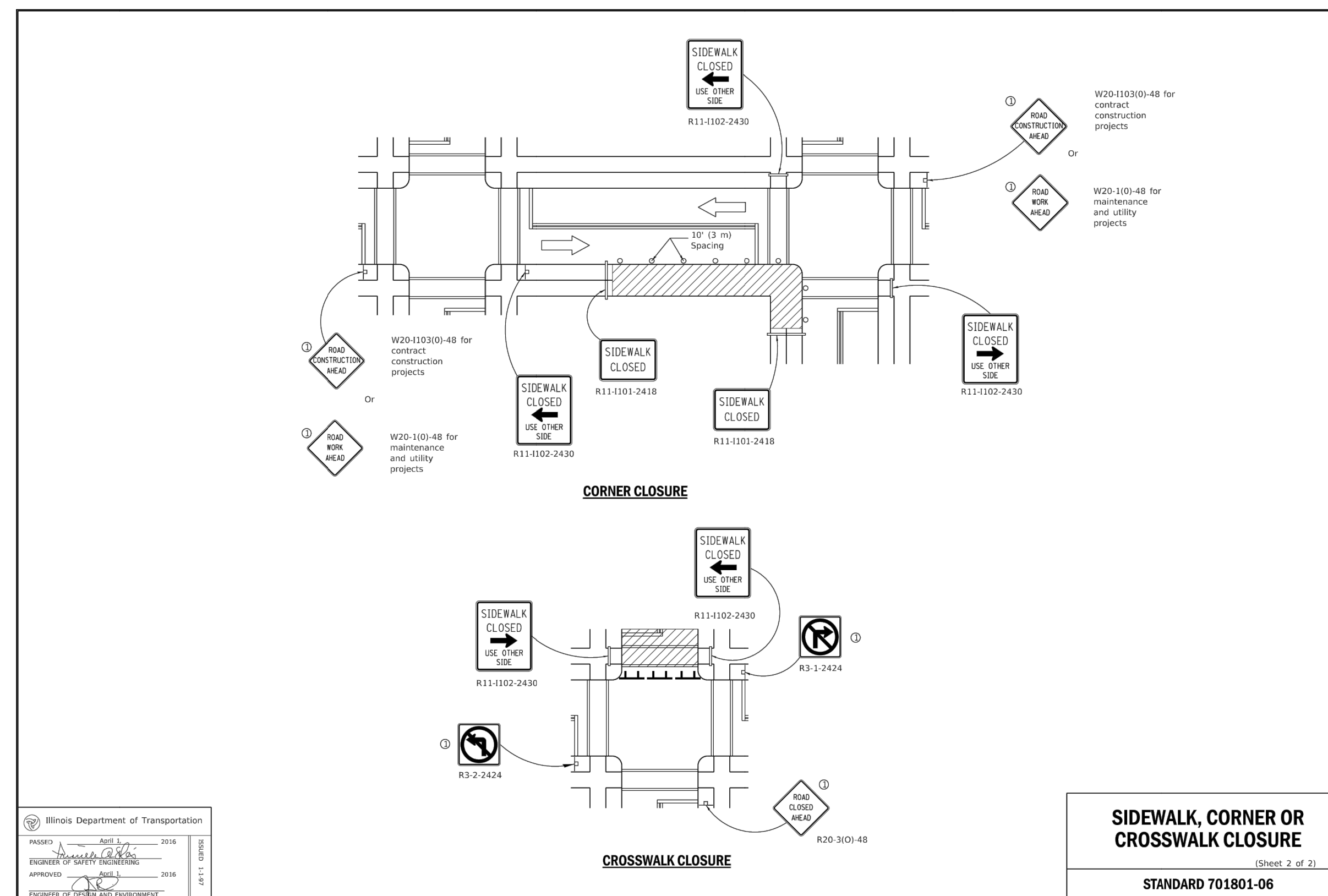
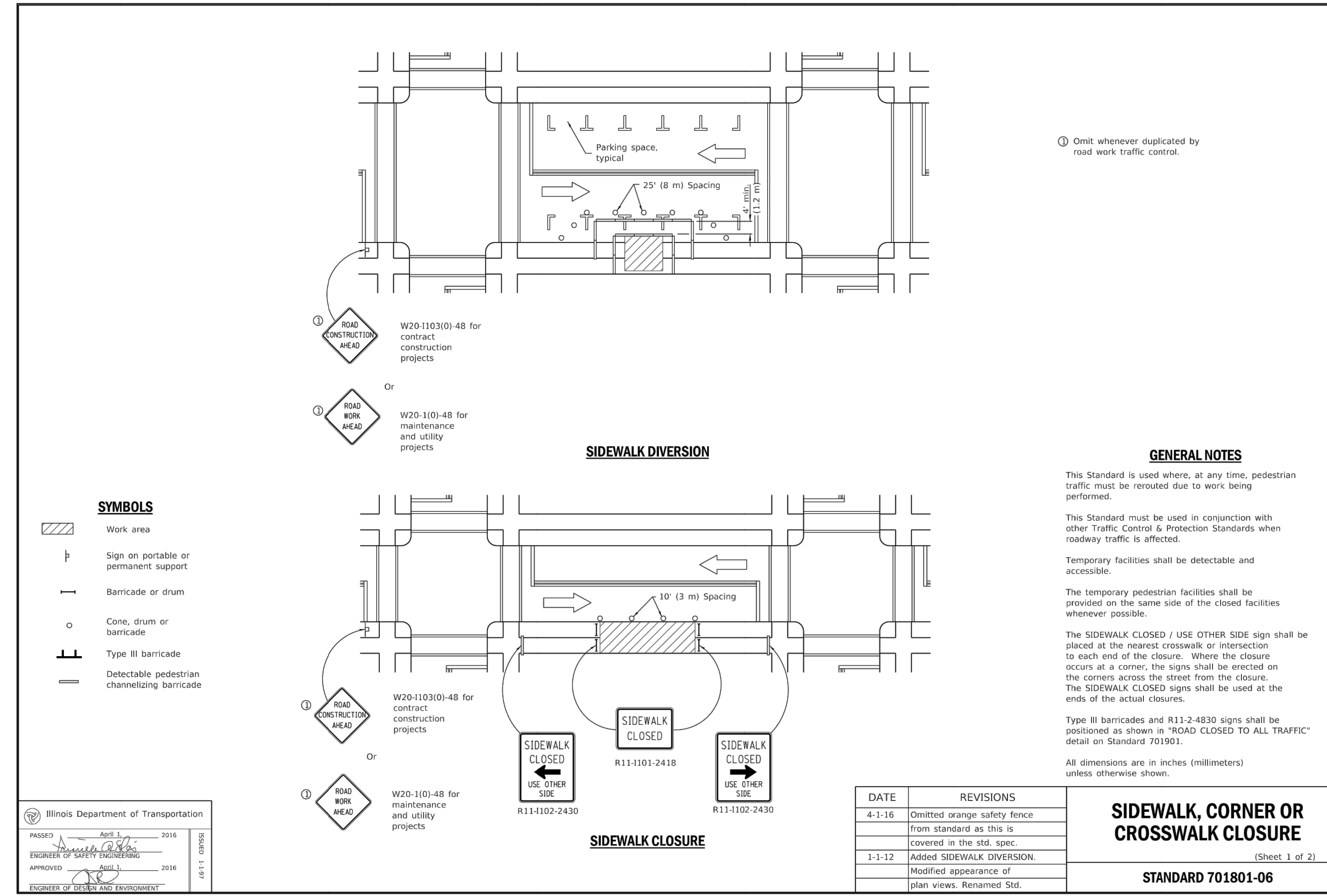
DETAILS - 4

DATE: APRIL 26, 2022 DRAWN BY: SRH
 DWG SCALE: NONE CHECKED BY: JGC
 PROJECT NO: 316-884-AV00
 APPROVED BY: DRAFT

DRAWING NO. **C803**

SHEET 17 OF 18

A:\170-300\176-894-000\Drawings\DWG\116894-001-000-C09-DETALS\DWG\C804_1516/17/2022 - staff\mym - LP 6/17/2022 3:08 PM



NO.	DATE	DESCRIPTION
1	6/17/2022	REVISION PER CITY REVISED 04/02/22

REVISION RECORD

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630-963-6026 - 877-963-6026
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CHARLESTON ROW III
445 AURORA AVENUE
NAPERVILLE, IL 60540

CHARLESTON ROW

DETAILS - 5

DATE: APRIL 26, 2022 DRAWN BY: SRH
DWG SCALE: NONE CHECKED BY: JGC
PROJECT NO: 316-SBA-AV00
APPROVED BY: DRAFT

DRAWING NO: **C804**
SHEET 18 OF 18