

FINAL SITE DEVELOPMENT PLANS

FOR

ASHWOOD HEIGHTS - PHASE 2

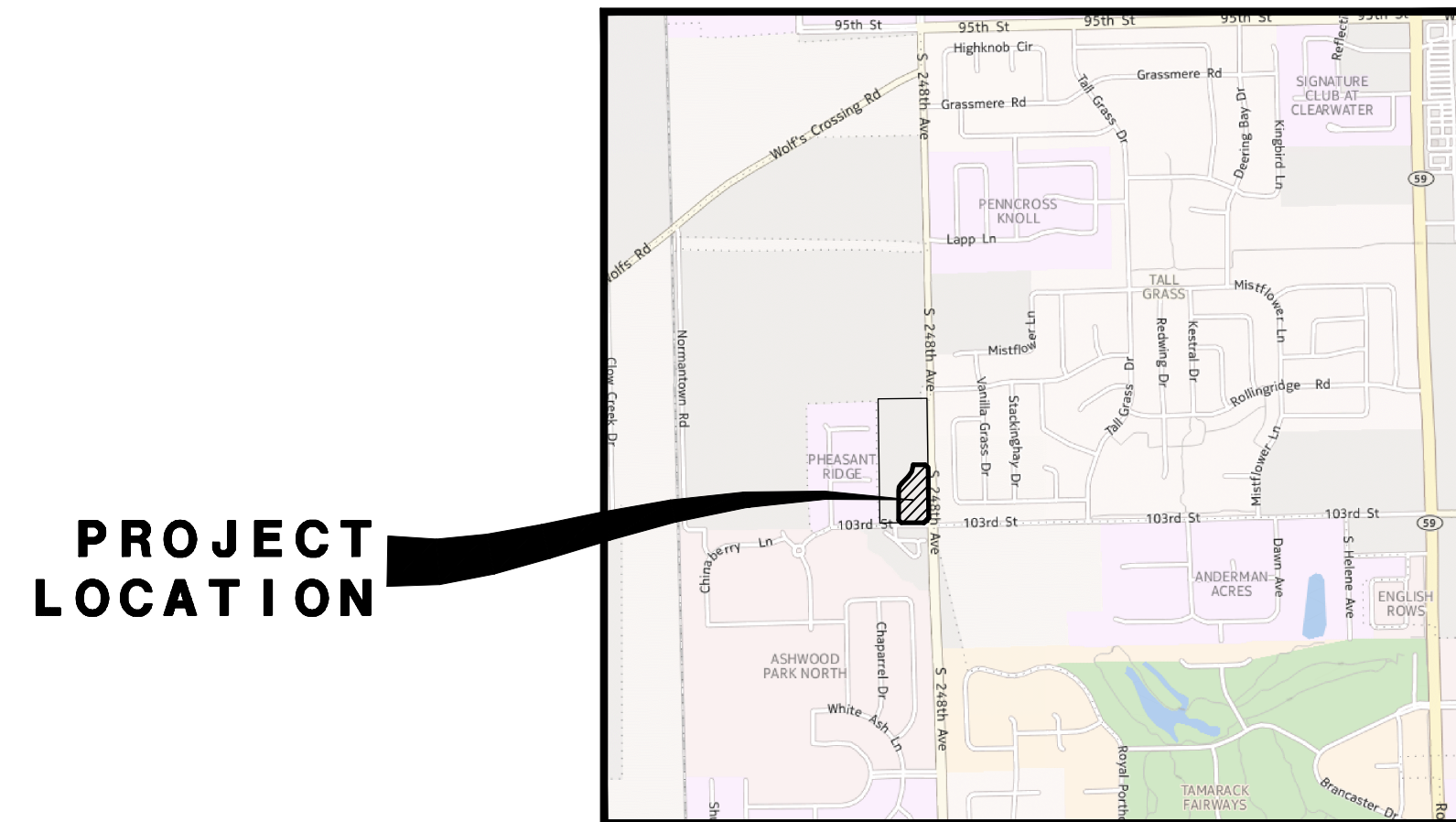
NAPERVILLE, ILLINOIS

WATERMAIN - SANITARY SEWER - STREET - STREET LIGHTING
AND DRAINAGE IMPROVEMENTS

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EXISTING	PROPOSED	DESCRIPTION
○	●	MANHOLE
□	■	CATCH BASIN
	●	INLET
	●	CLEANOUT
	▨	SLOPE INLET BOX
	▬	HEADWALL
	▬	END SECTION
	▬	STORM SEWER
	▬	SANITARY SEWER
	▬	WATERMAIN
	●	VALVE & BOX
	●	WATER VALVE IN VAULT
	●	FIRE HYDRANT
	—	CONTOURS
(ELEV)	ELEV	ELEVATIONS
⊕	◆	STREET LIGHT
	▨	WATERMAIN PROTECTION
	■	MANHOLE OR INLET FILTER INSERT
	▬	TRIANGULAR SILT DIKE
	▬	SILT FENCE DITCH CHECK
	▨	RIP-RAP
	➔	OVERFLOW ROUTE



LOCATION MAP

BENCH MARKS

ELEVATION REFERENCE MARK:

RM 111-CITY OF NAPERVILLE SURVEY MONUMENT STATION NO. 1501- BERNSTEN SURVEY MONUMENT LOCATED AT THE SOUTHWEST CORNER OF KINGBIRD LANE & GRASSMERE ROAD; 65' WEST OF KINGBIRD LANE EDGE PAVEMENT & 5 FEET SOUTH OF GRASSMERE ROAD EDGE PAVEMENT.
ELEVATION: 691.72 (NAVD 88)

CONTROL POINTS:

CP #108: FOUND '+' IN CONCRETE WALK AT THE NORTHWEST CORNER OF 103RD STREET AND 248TH STREET APPROXIMATELY 64 FEET WEST OF THE CENTERLINE OF 248TH STREET AND 46 FEET NORTH OF THE CENTERLINE OF 103RD STREET.

NORTHING: 1831474.34
EASTING: 1013873.42
ELEVATION: 690.09 NAVD 88

CP #110: FOUND '+' ON NORTH END OF THE CURBED ISLAND ON SOUTH SIDE OF 103RD STREET AT THE ENTRANCE DRIVE TO ASHWOOD PARK NORTH TOWNHOME.

NORTHING: 1831379.81
EASTING: 1013527.53
ELEVATION: 685.15 NAVD 88

FOR UNDERGROUND UTILITY LOCATIONS, CALL
J.U.L.I.E.
TOLL FREE
TEL. 1-800-892-0123 or 811

DATE: _____
RELEASED FOR PLAN REVIEW AND PERMIT PROCESSING ONLY.
IF USED FOR BIDDING PURPOSES, THOSE PARTIES CONCERNED SHALL BE ADVISED THAT REVISIONS MAY BE REQUIRED PRIOR TO PLAN APPROVAL.
NOT ISSUED FOR CONSTRUCTION UNTIL APPROVED BY THE CITY OF NAPERVILLE AND PERMITTED AS REQUIRED.

PROFESSIONAL ENGINEER'S CERTIFICATION

STATE OF ILLINOIS) SS.
COUNTY OF DU PAGE)

I, RANDALL W. BUS, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THIS TECHNICAL SUBMISSION WAS PREPARED ON BEHALF OF SILVERTHORNE DEVELOPMENT COMPANY, BY CEMCON, LTD., UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.

DATED THIS 13TH DAY OF APRIL, A.D., 2022.

Randall W. Bus
RANDALL W. BUS
62-32381
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

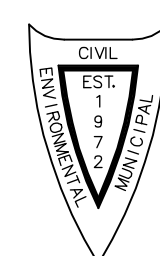
ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 062-032381
MY LICENSE EXPIRES ON NOVEMBER 30, 2023

PROFESSIONAL DESIGN FIRM LICENSE NUMBER 184-002937
EXPIRES APRIL 30, 2023

NOTE: UNLESS THIS DOCUMENT BEARS THE ORIGINAL SIGNATURE AND IMPRESSED SEAL OF THE DESIGN PROFESSIONAL ENGINEER, IT IS NOT A VALID TECHNICAL SUBMISSION.

NAPERVILLE PROJECT #22-1000002
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REVISIONS

NO.	DATE	SHEETS	NO.	DATE	SHEETS
△	03-25-22/JGC	1, 2, 4-7, 9-13 (SECOND SUBMITTAL)			
△	04-13-22/KMS	5 & 11 2(REQUIRED SUBMITTAL)			

JOB NO. 904.408
COMPLETION DATE :
JANUARY 12, 2022
SHEET 1 OF 15

ASHWOOD HEIGHTS - PHASE 2 - FINAL ENGINEERING - 904.408 - REV. 02: 04-13-22/KMS

CONSTRUCTION SPECIFICATIONS – GENERAL NOTES

**CITY OF NAPERVILLE
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 800-892-0123. 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 INSPECTION(S).
- RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
- FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND 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.

OTHER GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHFUL WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- IF THE ENGINEER IS RETAINED FOR CONSTRUCTION STAKING SERVICES, THE ENGINEER AND T.E.D. WILL BE GIVEN SEVENTY-TWO (72) HOURS NOTICE FOR ANY STAKING THAT IS TO BE DONE. IF ENGINEER IS CONTRACTED BY OWNER OR CONTRACTOR FOR CONSTRUCTION STAKING SERVICES, EACH OF THE VARIOUS ITEMS OF WORK COVERED BY THIS CONTRACT WILL BE STAKED ONCE. ADDITIONAL STAKING REQUIRED DUE TO CONTRACTOR NEGLIGENCE SHALL BE PAID FOR BY THE CONTRACTOR AT THE CURRENT HOURLY RATE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EACH OF THE UTILITY COMPANIES BEFORE ANY WORK IS STARTED. ALL UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION.
- AFTER CONSTRUCTION STAKING IS PERFORMED, BUT PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CALL THE ATTENTION OF THE OWNER'S REPRESENTATIVE TO ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES WHICH ARE ESTABLISHED BY THE OWNER, AND SHALL NOT PROCEED WITH THE WORK UNTIL ANY LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE OWNER'S REPRESENTATIVE.
- THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE TO PLACE ON GRADE AND COORDINATE WITH OTHER CONTRACTORS ALL UNDERGROUND STRUCTURE FRAMES SUCH AS CATCH BASINS, INLETS, MANHOLES, HYDRANTS, BUFFALO BOXES, VALVES, ETC. NO ADDITIONAL COMPENSATION WILL BE PAID AND SAID ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF CONSTRUCTION.
- CONTRACTORS SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, CLEAN PAVEMENTS ON A DAILY BASIS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS (INCLUDING UTILITY LOCATIONS) PRIOR TO THE INSTALLATION OR FABRICATION OF ANY MATERIALS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

USE OF THE ELECTRONIC MEDIA VERSION OF FINAL SITE DEVELOPMENT PLANS AND SPECIFICATIONS

THESE FINAL SITE DEVELOPMENT PLANS AND SPECIFICATIONS ARE COPYRIGHTED INSTRUMENTS OF SERVICE WITH RESPECT TO THIS PARTICULAR PROJECT AND TO WHICH INSTRUMENTS OF SERVICE CEMCON, LTD. RETAINS A PROPRIETARY INTEREST SUBJECT ONLY TO CERTAIN RIGHTS GRANTED UNDER CONTRACT BY CEMCON, LTD. FOR THE PARTICULAR PROJECT AND PARTICULAR CLIENT IDENTIFIED ON THE COVER SHEET. ONLY THE PRINTED OR HARD COPIES OF SAID INSTRUMENTS OF SERVICE BEARING THE ORIGINAL SIGNATURE AND IMPRESSED SEAL OF THE PROFESSIONAL ENGINEER IN THE EMPLOY OF CEMCON, LTD. MAY BE RELIED UPON. THE ELECTRONIC MEDIA VERSION OF THESE INSTRUMENTS OF SERVICE ACQUIRED BY THIRD PARTIES WITH NO CONTRACTUAL RELATIONSHIP TO CEMCON, LTD. ARE FOR CONVENIENCE ONLY AND ANY CONCLUSION OR INFORMATION DERIVED FROM SUCH ELECTRONIC FILES IS AND SHALL BE AT USER'S SOLE RISK. BECAUSE DATA STORED IN ELECTRONIC MEDIA FORMAT CAN DETERIORATE, BE SUBSEQUENTLY MODIFIED INADVERTENTLY OR OTHERWISE WITHOUT THE AUTHORIZATION OR KNOWLEDGE OF CEMCON, LTD., ANY ENTITY RECEIVING OR UTILIZING SAID ELECTRONIC FILES SHALL CAREFULLY COMPARE AND VERIFY THAT THE TEXT, DATA, GRAPHICS OR DESIGN INFORMATION IMPARTED ON SAID ELECTRONIC MEDIA FILES ARE CONSISTENT WITH THE PRINTED OR HARD COPIES OF SAID INSTRUMENTS OF SERVICE AND ADVISEDLY THE LATEST MOST UP-TO-DATE AND OPERATIVE VERSION OF SAID INSTRUMENTS OF SERVICE. IN PARTICULAR, THE ACQUISITION OF DATA POINTS IN EITHER THE HORIZONTAL AND /OR VERTICAL PLANES MUST BE COMPARED AND CORROBORATED WITH THAT LATEST OPERATIVE PRINTED OR HARD COPY OF SAID INSTRUMENTS OF SERVICE, OR ERRORS AND MISINFORMATION MAY BE INTRODUCED. WHEN TRANSFERRING THE ELECTRONIC MEDIA VERSION OF SAID INSTRUMENTS OF SERVICE EITHER BY CEMCON, LTD. OR THIRD PARTIES, CEMCON, LTD. MAKES NO REPRESENTATION AS TO THE LONG TERM RELIABILITY, USABILITY, OR READABILITY OF SAID INSTRUMENTS OF SERVICE RESULTING FROM THE USE OF SOFTWARE APPLICATION PACKAGES, OPERATING SYSTEMS OR COMPUTER HARDWARE DIFFERING FROM THOSE USED BY CEMCON, LTD.

**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 DPU-W/WW CEE/CM AT 630-420-4122 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.
- 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 GLANDS 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 VALVES, LINES TOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), AND ABANDONED WATER OR 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-3159. 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, WATEROUS 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 SANITARY 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 REPAIR WITH FIELD APPLIED APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEZ 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 ± 5 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 LEAKING AND THAT THE WATER MAIN DID NOT HAVE TOO MUCH TRAPPED AIR IN THE TESTED SECTION.

**CITY OF NAPERVILLE
Department of Public Utilities – Water/Wastewater General Notes**

- THE CITY OF NAPERVILLE DPU-W/WW 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 AN 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 COUPLING SHALL BE PERMITTED. NO SOLDERED OR FLARED 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.

- CONTRACTOR SHALL PROVIDE INTERNAL TELEVIEWED INSPECTION OF ALL INSTALLED SANITARY SEWER, LATERALS, MANHOLES AND CONNECTIONS TO THE PUBLIC SYSTEM. FOLLOWING COMPLETION OF TELEVIEWING WORK, THE CONTRACTOR SHALL SUBMIT VIDEO RECORDINGS ON DVD OR FLASH DRIVE ALONG WITH A COMPREHENSIVE TELEVIEWING REPORT WHICH WILL INDICATE THE LOCATION, FOOTAGES AND NATURE OF ANY DEFECTS. ALL DEFECTS SHALL BE REPAIRED TO THE SATISFACTION OF THE WATER/WASTEWATER UTILITY AND RE-TELEVIEWED.
- 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.

OTHER SANITARY SEWER AND WATERMAIN NOTES

- WATERMAIN SERVICES SHALL HAVE A MINIMUM OF 5.0 FEET OF COVER AND SHALL BE RUN IN STRAIGHT ALIGNMENT UNLESS SPECIFICALLY SHOWN ON THE PLANS.
- ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION.
- THE CONTRACTOR SHALL BE AWARE OF POTENTIAL CONFLICTS WITH EXISTING UTILITIES AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL EXCAVATE AROUND UTILITIES TO DETERMINE ELEVATIONS BEFORE BEGINNING CONSTRUCTION.
- "BAND-SEAL" OR SIMILAR NON-SHEAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS.
- ALL NEW SANITARY SEWERS SHALL HAVE WYES FOR PROPOSED BUILDING SERVICES. ALL CONNECTIONS TO EXISTING SANITARY SEWERS NOT HAVING WYES SHALL BE MADE WITH A CASCADE STAINLESS STEEL SEWER SADDLE FOR BUILDING SERVICES AND WITH A MANHOLE FOR SEWER EXTENSIONS. ALL TAPS SHALL INCLUDE A PROPERLY INSTALLED HUB WYE SADDLE.
- CONNECTIONS TO EXISTING SANITARY SEWER AND WATER SYSTEMS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- WATER SERVICES SHALL INCLUDE THE NECESSARY LENGTH OF TYPE "K" COPPER WATER TUBE OF THE SIZE SHOWN ON THE PLANS, CORPORATION STOP, CURB STOP, AND SERVICE BOX, ALL AS REQUIRED BY THE MUNICIPALITY, AND ALL NECESSARY LABOR, TOOLS, EQUIPMENT, EXCAVATION & BACKFILL, FOR A COMPLETE INSTALLATION AS SHOWN ON THE PLANS. TRENCH BACKFILL WILL BE PAID FOR SEPARATELY, WHEN REQUIRED.
- GRANULAR TRENCH BACKFILL SHALL BE USED IN ALL LOCATIONS WHERE THE PROPOSED UNDERGROUND UTILITY IS TO BE CONSTRUCTED UNDER PERMANENT TYPE PAVEMENTS, DRIVEWAYS, OR SIDEWALKS, IN ANY UTILITY TRENCH OVER WHICH ANOTHER UTILITY WILL PASS, OR AS DIRECTED BY THE ENGINEER. TRENCH BACKFILL SHALL BE EXTENDED TWO (2) FEET ON EACH SIDE OF THE PERMANENT TYPE SURFACE.
- ALL SANITARY SEWER SHALL BE CONSTRUCTED WITH STONE BEDDING (IDOT GRADATION CA-11) IN ACCORDANCE WITH ASTM D-2321-89 CLASS IB.
- THE COST OF PIPE BEDDING WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE CONTRACT UNIT PRICES OF THE VARIOUS SEWER ITEMS.
- DEFLECTION TESTING FOR FLEXIBLE THERMOPLASTIC PIPE:
 - THE PIPELINE SHALL BE TESTED FOR EXCESS DEFLECTION BY PULLING A "GO-NO GO" MANDREL THROUGH THE PIPE FROM MANHOLE TO MANHOLE. THE MANDREL SHALL BE SIZED IN ACCORDANCE WITH SECTION 31-1.11 c (4), AND AS SPECIFIED IN THE SPECIAL PROVISIONS. A "DEFLECTOMETER" MAY ALSO BE USED TO CHECK AND RECORD DEFLECTION.
 - WHEREVER POSSIBLE AND PRACTICAL, THE TESTING SHALL INITIATE AT THE DOWNSTREAM LINES AND PROCEED TOWARDS THE UPSTREAM LINES.
 - WHERE DEFLECTION IS FOUND TO BE IN EXCESS OF ALLOWABLE TESTING LIMITS, THE CONTRACTOR SHALL EXCAVATE TO THE POINT OF EXCESS DEFLECTION AND CAREFULLY COMPACT AROUND THE POINT WHERE EXCESS DEFLECTION WAS FOUND. THE LINE SHALL THEN BE RETESTED FOR DEFLECTION. HOWEVER, SHOULD AFTER THE INITIAL TESTING THE DEFLECTED PIPE FAIL TO RETURN TO THE ORIGINAL SIZE (INSIDE DIAMETER), THE LINE SHALL BE REPLACED.
- DEFLECTION LIMITS FOR FLEXIBLE THERMOPLASTIC PIPE:
 - DEFLECTION OF POLYVINYL CHLORIDE (PVC) PIPE SHALL NOT EXCEED 5.0% OF THE "BASE I.D." (INTERNAL DIAMETER) OF THE PIPE. "BASE I.D." SHALL BE CALCULATED IN ACCORDANCE WITH THE FOLLOWING:

$$AVG\ ID = AVG\ OD - 2(1.06)t$$

$$TOLERANCE\ PACKAGE = (A^2 + B^2 + C^2)/2$$
 WHERE:
 - A = OD TOLERANCE (ASTM D3034)
 - B = EXCESS WALL THICKNESS TOLERANCE = 0.06t
 - C = OUT-OF-ROUNDNESS TOLERANCE = 0.15(AVG OD)
 - t = MINIMUM WALL THICKNESS (ASTM D-2241)
$$BASE\ ID = AVG.\ ID - TOLERANCE\ PACKAGE$$
- ALL SANITARY SEWERS SHALL PASS INFILTRATION AND EXFILTRATION AND AIR TESTS AND DEFLECTION TESTING AND SANITARY SEWER MANHOLES SHALL PASS VACUUM TESTING MEETING THE APPROVAL OF THE CITY OF NAPERVILLE.

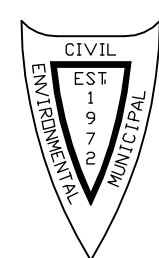
PROTECTION OF WATERMAIN AND WATER SERVICE

WATERMANS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWER SERVICE CONNECTIONS AND DRAINS AS FOLLOWS:

- WATERMANS:
 - HORIZONTAL SEPARATION:
 - WATERMANS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.
 - WATERMANS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:
 - LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET; AND
 - THE WATERMAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND
 - THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
 - BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE (STORM SEWER ONLY), OR PVC PIPE MEETING THE REQUIREMENTS OF SECTION 653.111 OF THE I.E.P.A. TECHNICAL POLICY STATEMENTS, WHEN IT IS IMPOSSIBLE TO MEET (A) OR (B) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.
- VERTICAL SEPARATION:
 - A WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER, WHENEVER WATERMANS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
 - THE DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRESTRESSED CONCRETE PIPE, (STORM SEWER ONLY), OR PVC PIPE MEETING THE REQUIREMENTS OF SECTION 653.111, OR THE DRAIN OR SEWER SHALL BE SLEEVED WITH STEEL PIPE OR CONSTRUCTED OF REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-361 (STORM SEWERS ONLY), FOR THE ENTIRE LENGTH OF STORM SEWER BETWEEN STRUCTURES WHEN STORM SEWER IS PERPENDICULAR TO WATERMAIN, IF:
 - IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (A) ABOVE; OR
 - THE WATERMAIN PASSES UNDER A SEWER OR DRAIN.
 - A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATERMAIN.
 - CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.
 - EXCEPT IN THE CASE OF DIRECT CONFLICT DO NOT LOWER WATERMAIN TO CLEAR OBSTRUCTIONS.
 - WHEN WATERMAIN CROSSES UNDER ANY SEWER FOLLOW THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS" MAY 1996, FIFTH EDITION (SEE PAGE 162, DRAWING NUMBER 19).
- WATER SERVICE LINES:
 - THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER SERVICE LINES AND ALL STORM SEWERS, SANITARY SEWER, COMBINED SEWERS OR ANY DRAIN OR SEWER SERVICE CONNECTION SHALL BE THE SAME AS WATER MAIN SEPARATION DESCRIBED IN (a) ABOVE.
 - WATER PIPE DESCRIBED IN (c) ABOVE SHALL BE USED FOR SEWER SERVICE LINES WHEN MINIMUM HORIZONTAL AND VERTICAL SEPARATION CANNOT BE MAINTAINED.
 - SPECIAL CONDITIONS – ALTERNATE SOLUTIONS SHALL BE PRESENTED TO THE AGENCY WHEN EXTREME TOPOGRAPHICAL, GEOLOGICAL OR EXISTING STRUCTURAL CONDITIONS MAKE STRICT COMPLIANCE WITH (a) AND (b) ABOVE TECHNICALLY AND ECONOMICALLY IMPRACTICAL. ALTERNATE SOLUTIONS WILL BE APPROVED PROVIDED WATERTIGHT CONSTRUCTION STRUCTURALLY EQUIVALENT TO APPROVED WATERMAIN MATERIAL IS PROPOSED.
 - WATERMANS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS AND SEEPAGE BEDS BY A MINIMUM OF 25 FEET.
 - WATERMANS AND WATER SERVICE LINES SHALL BE PROTECTED AGAINST ENTRANCE OF HYDROCARBONS THROUGH DIFFUSION THROUGH ANY MATERIAL USED IN CONSTRUCTION OF THE LINE.

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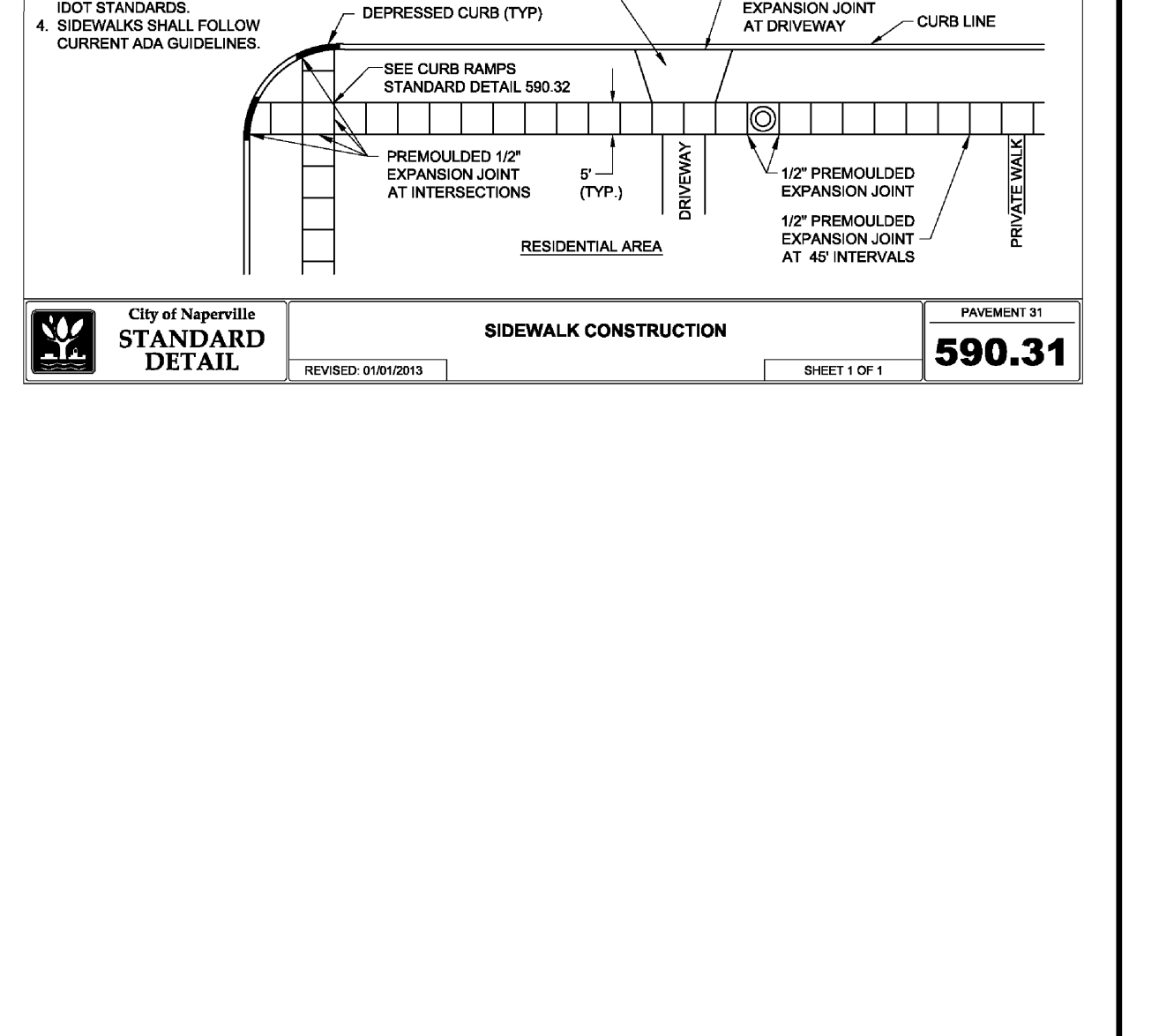
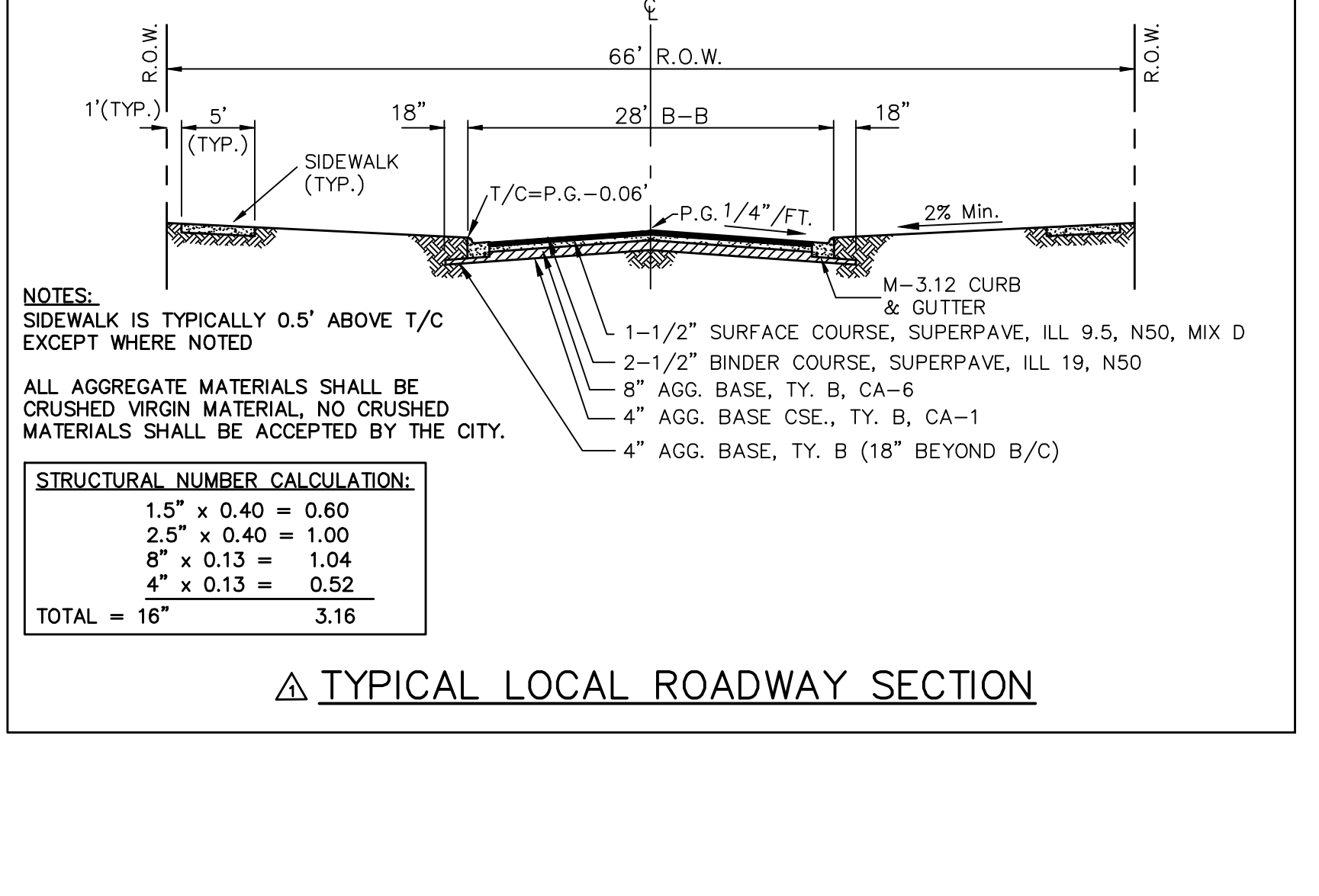
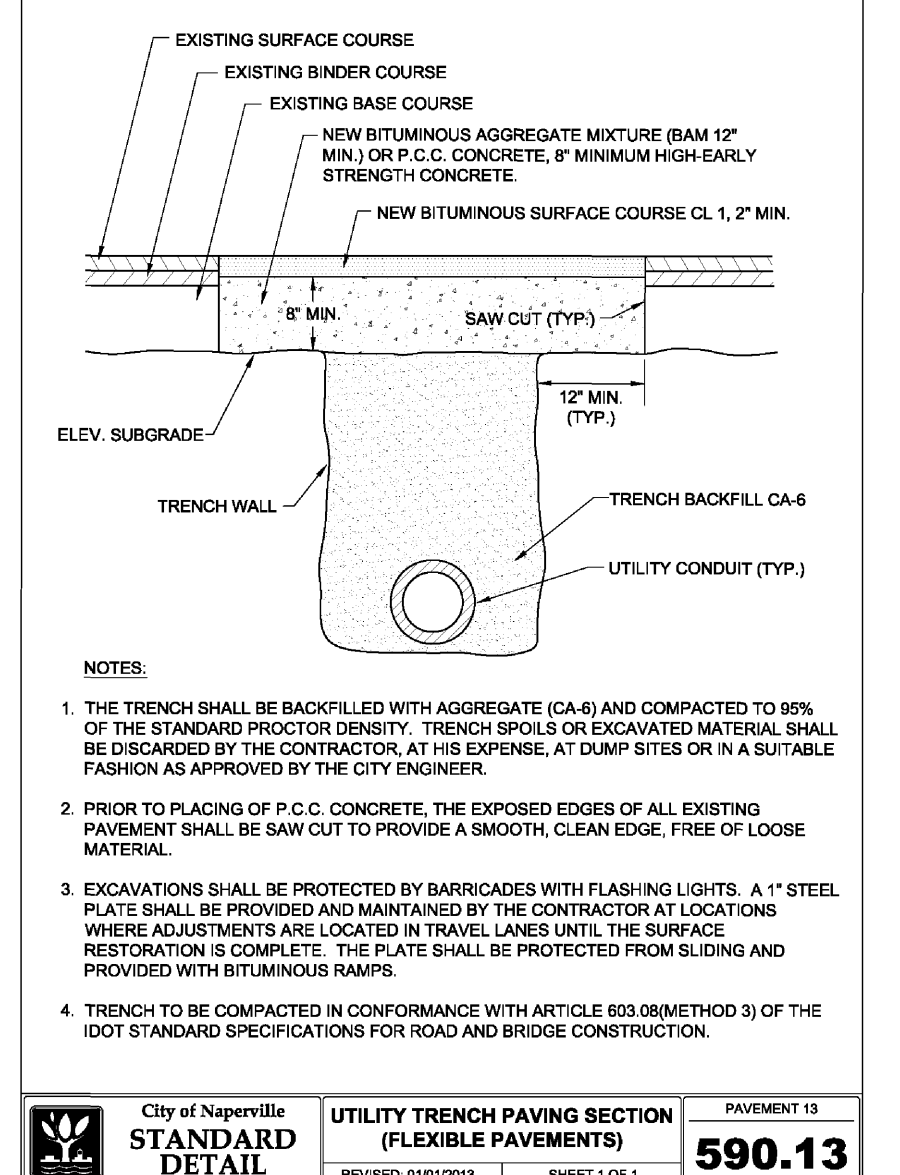
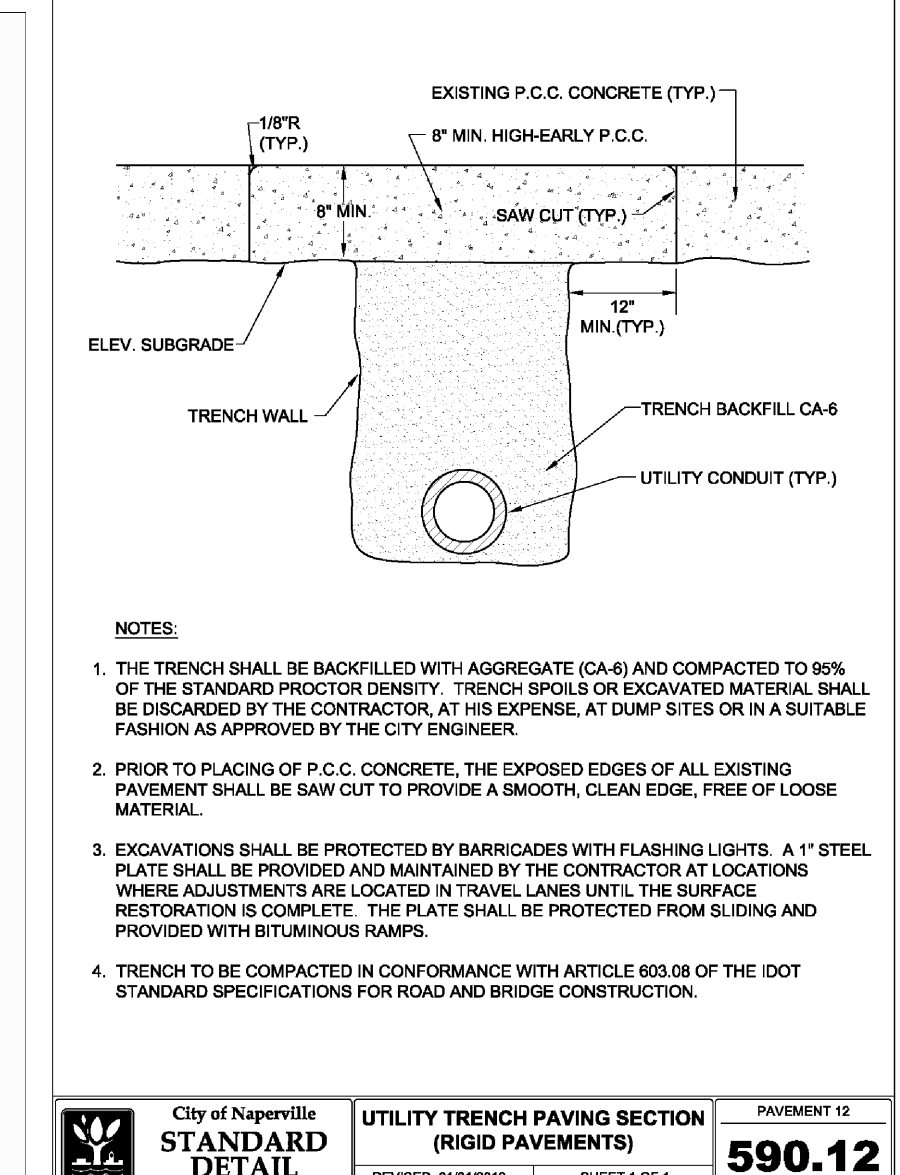
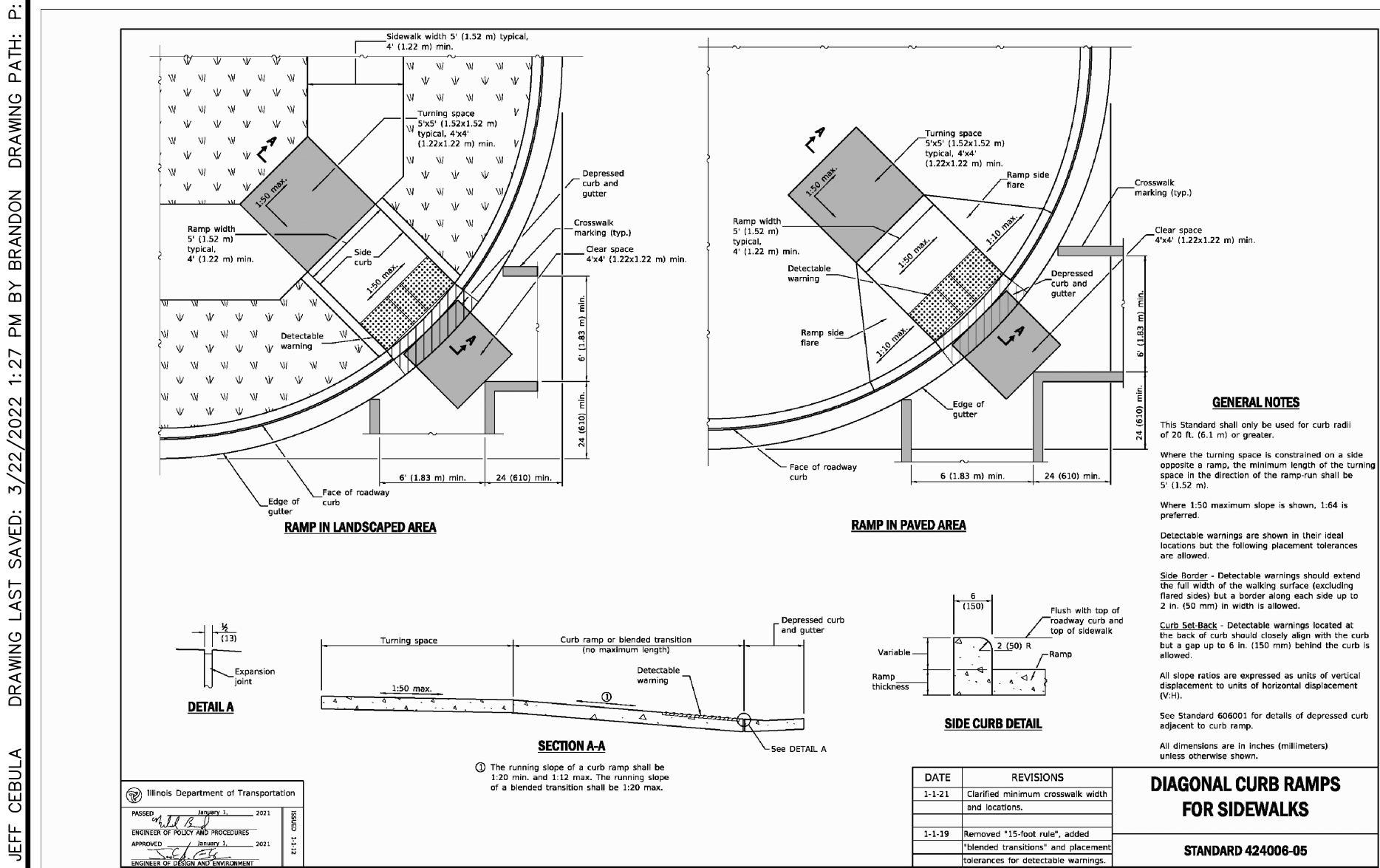
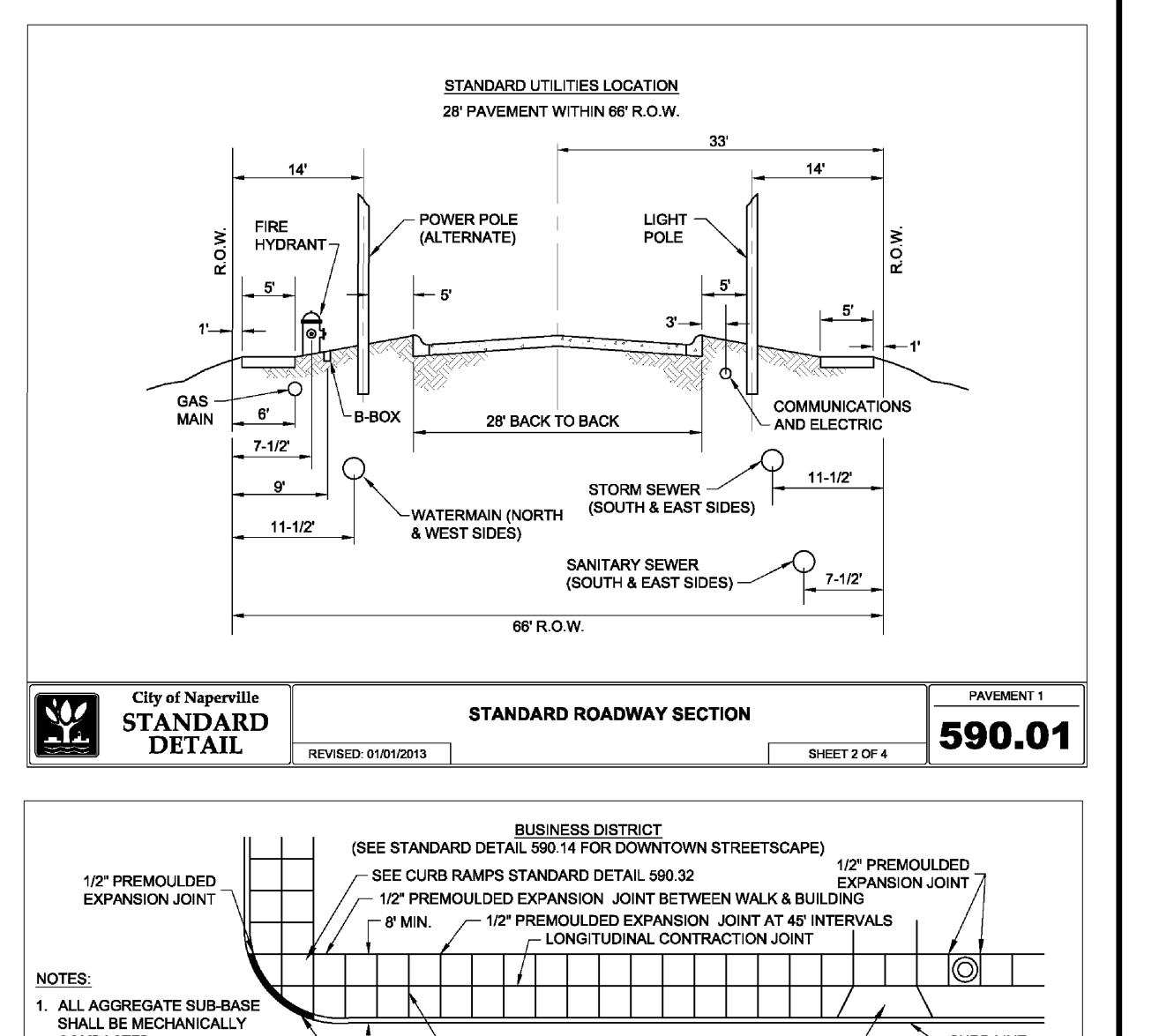
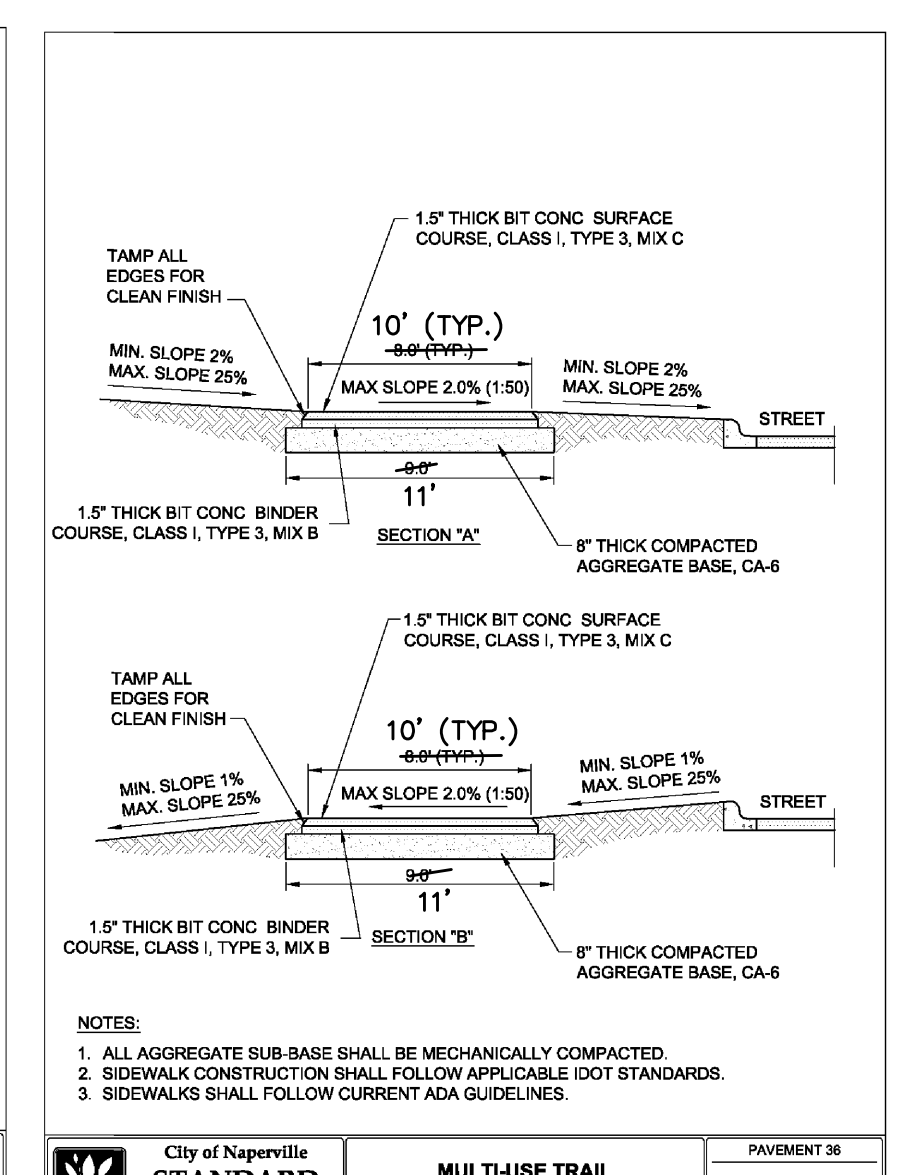
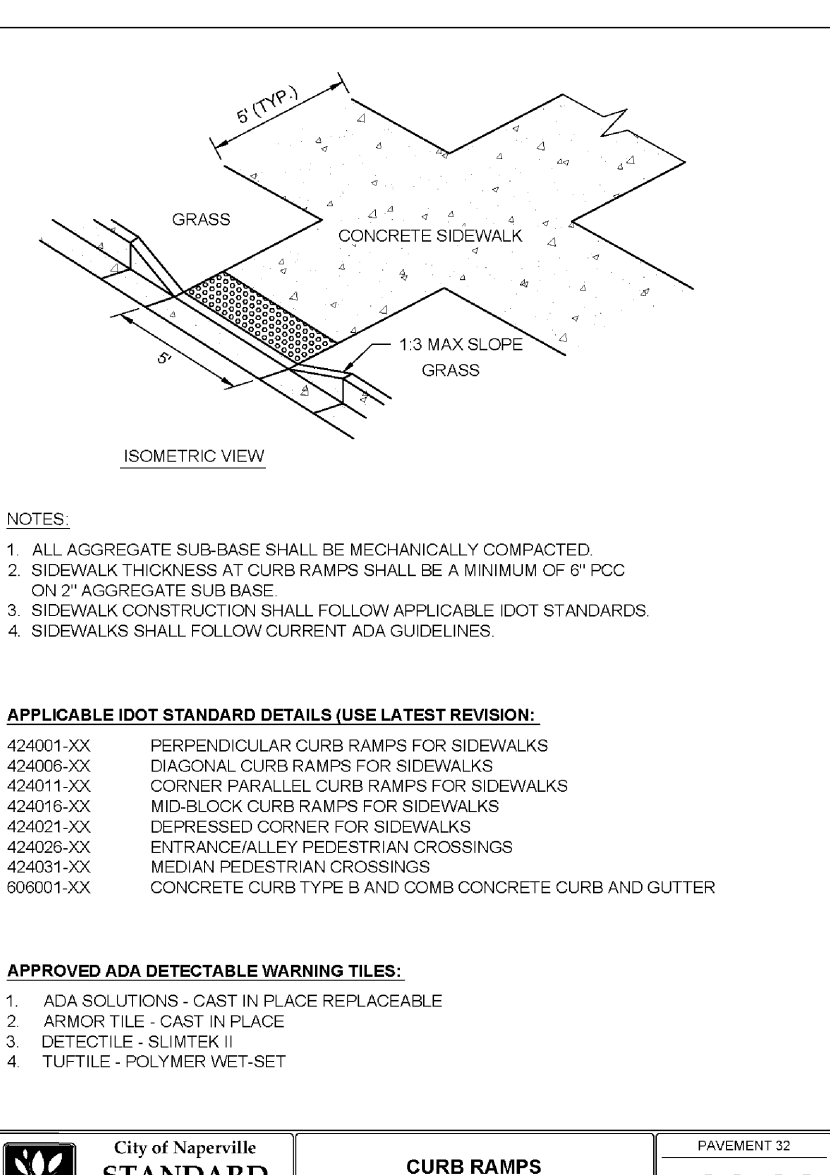
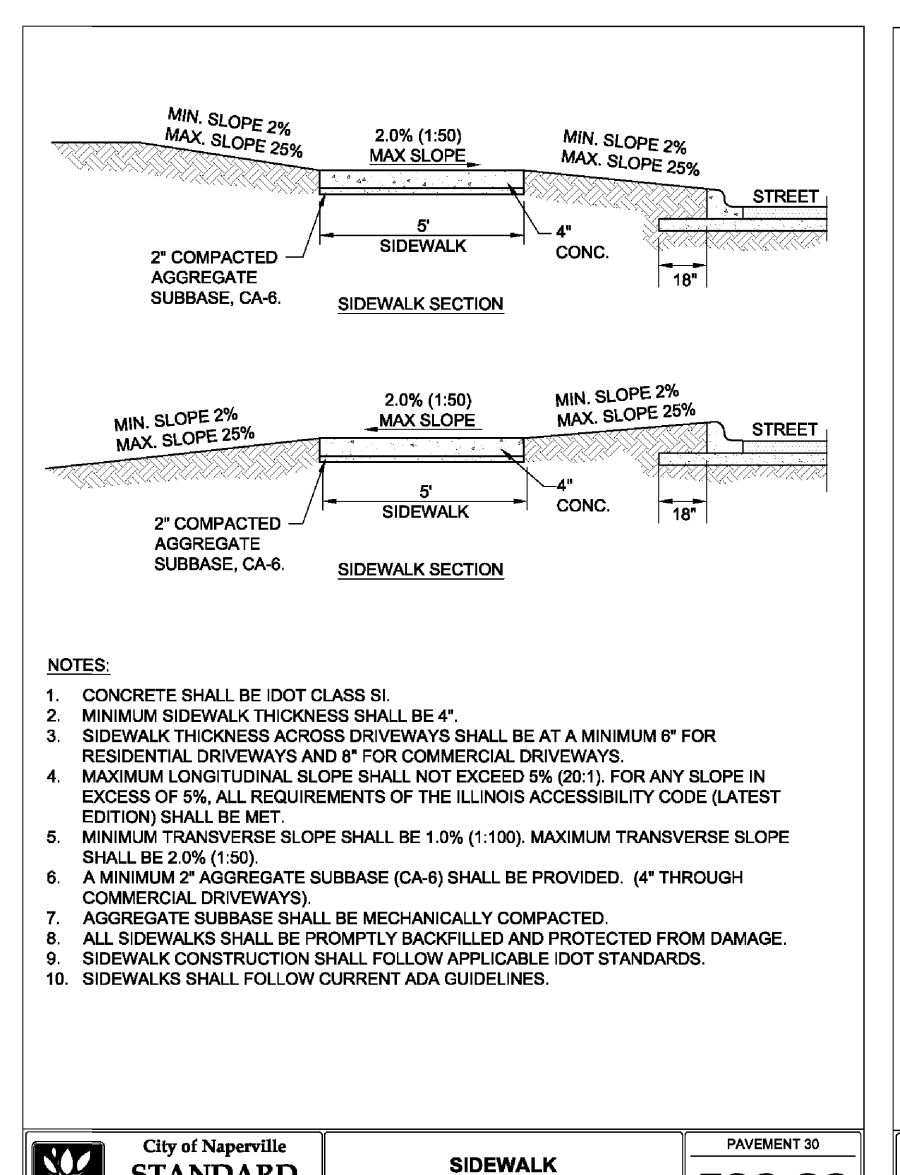
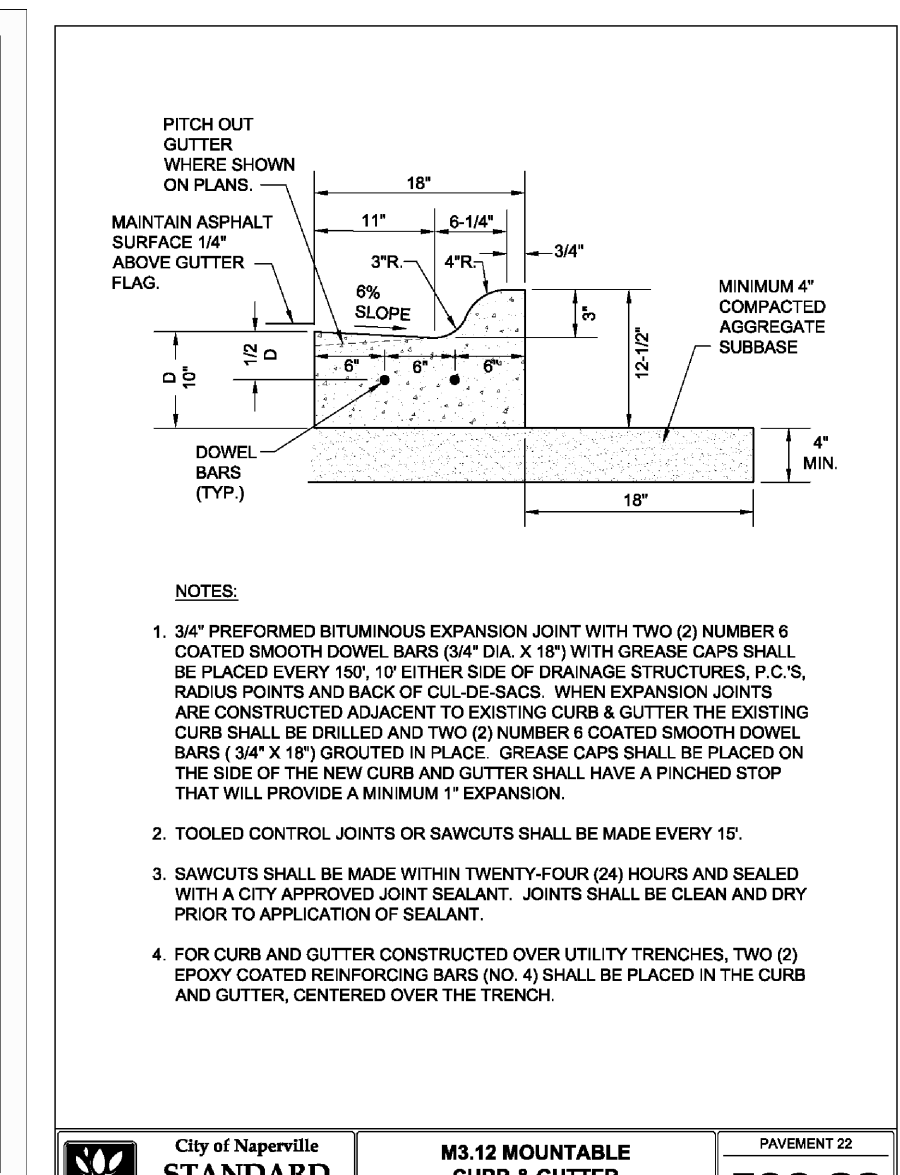
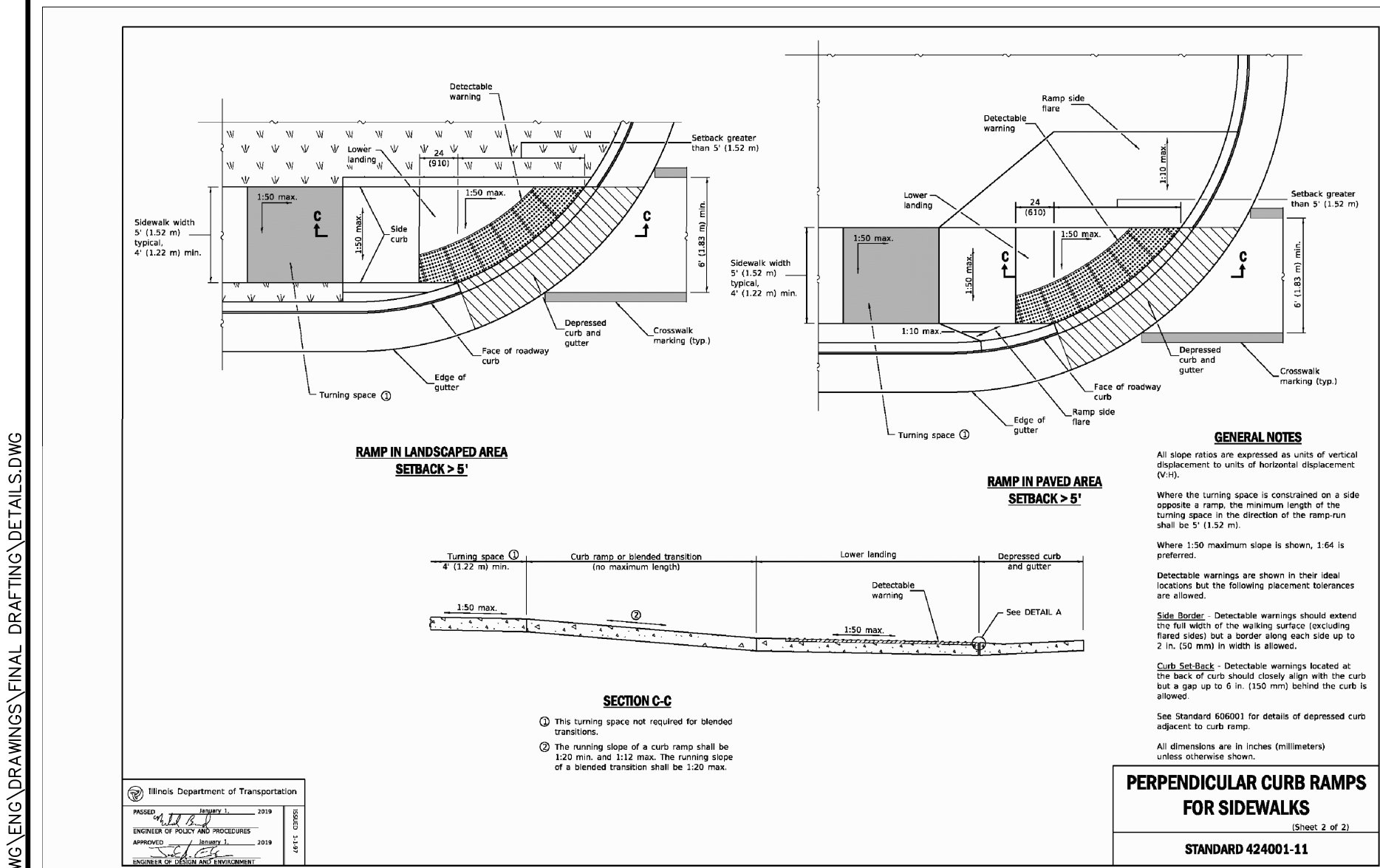
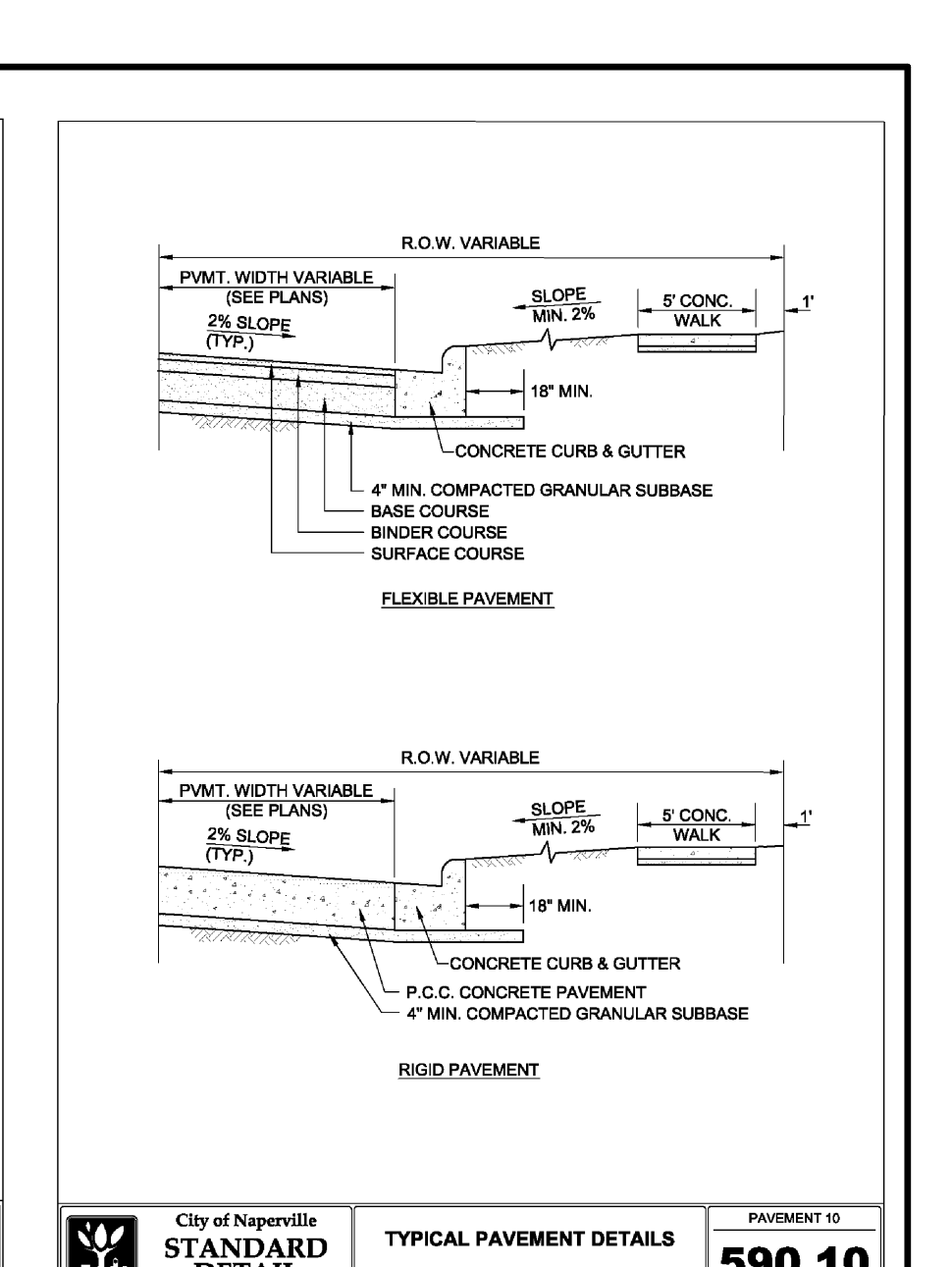
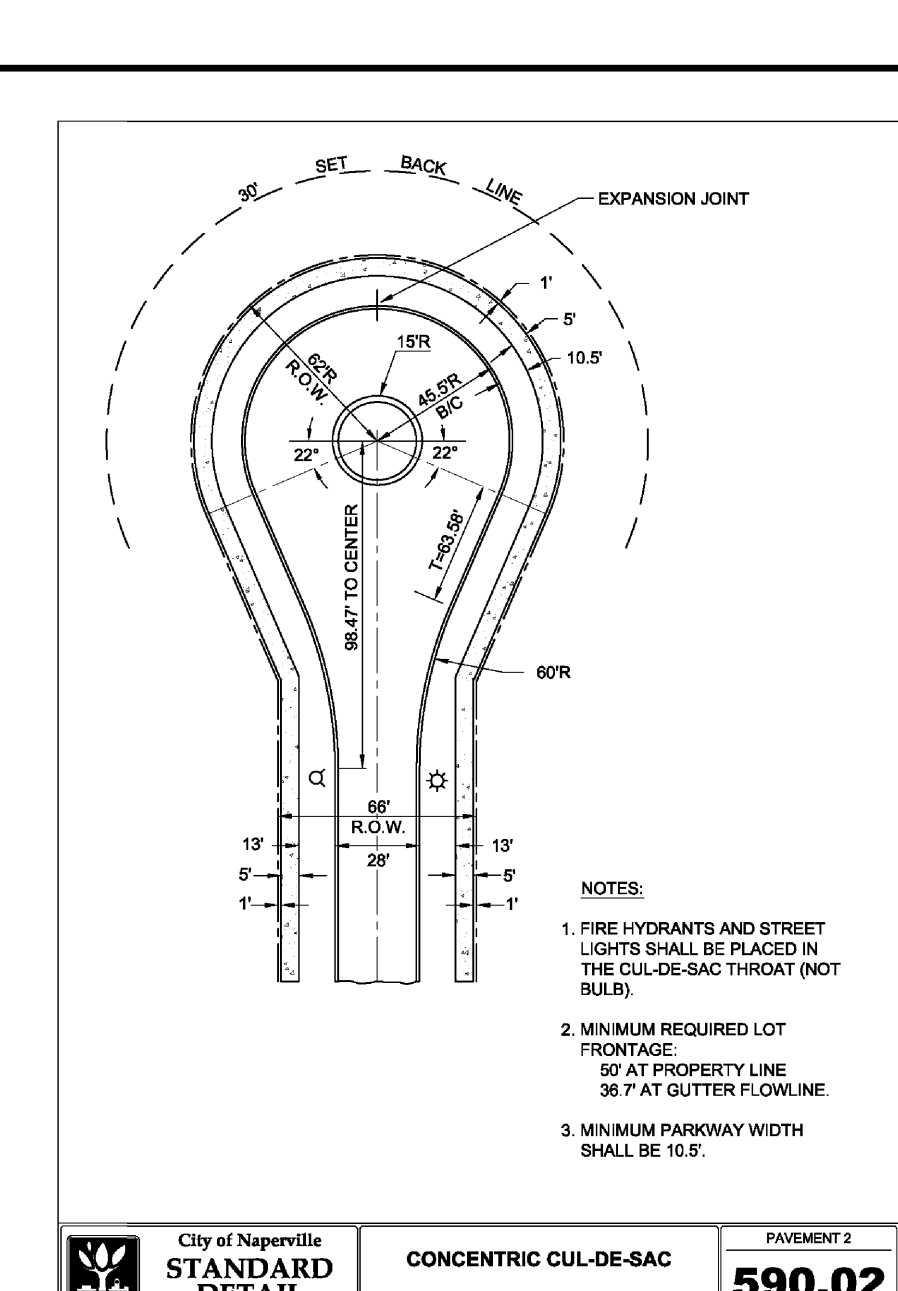
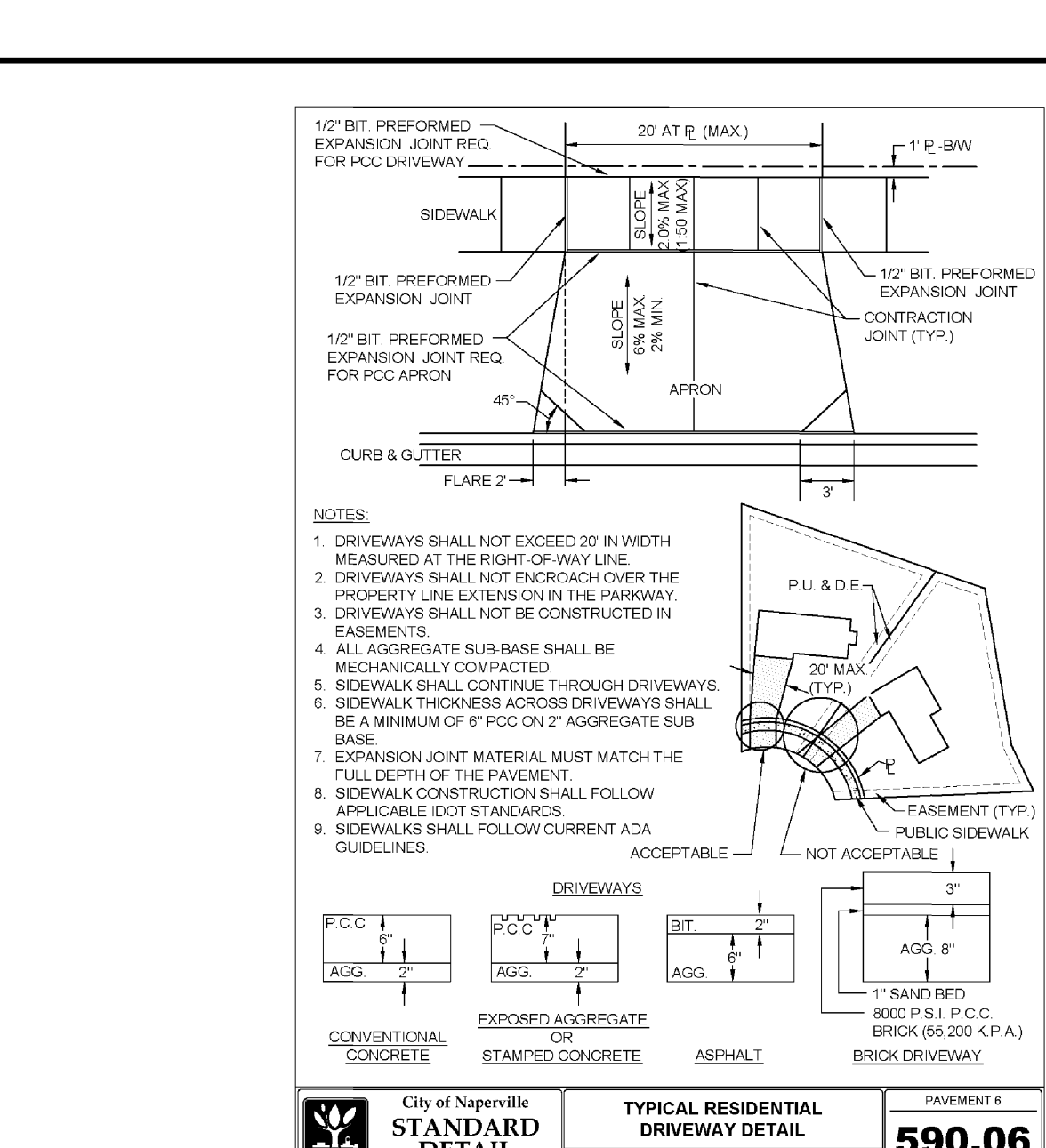
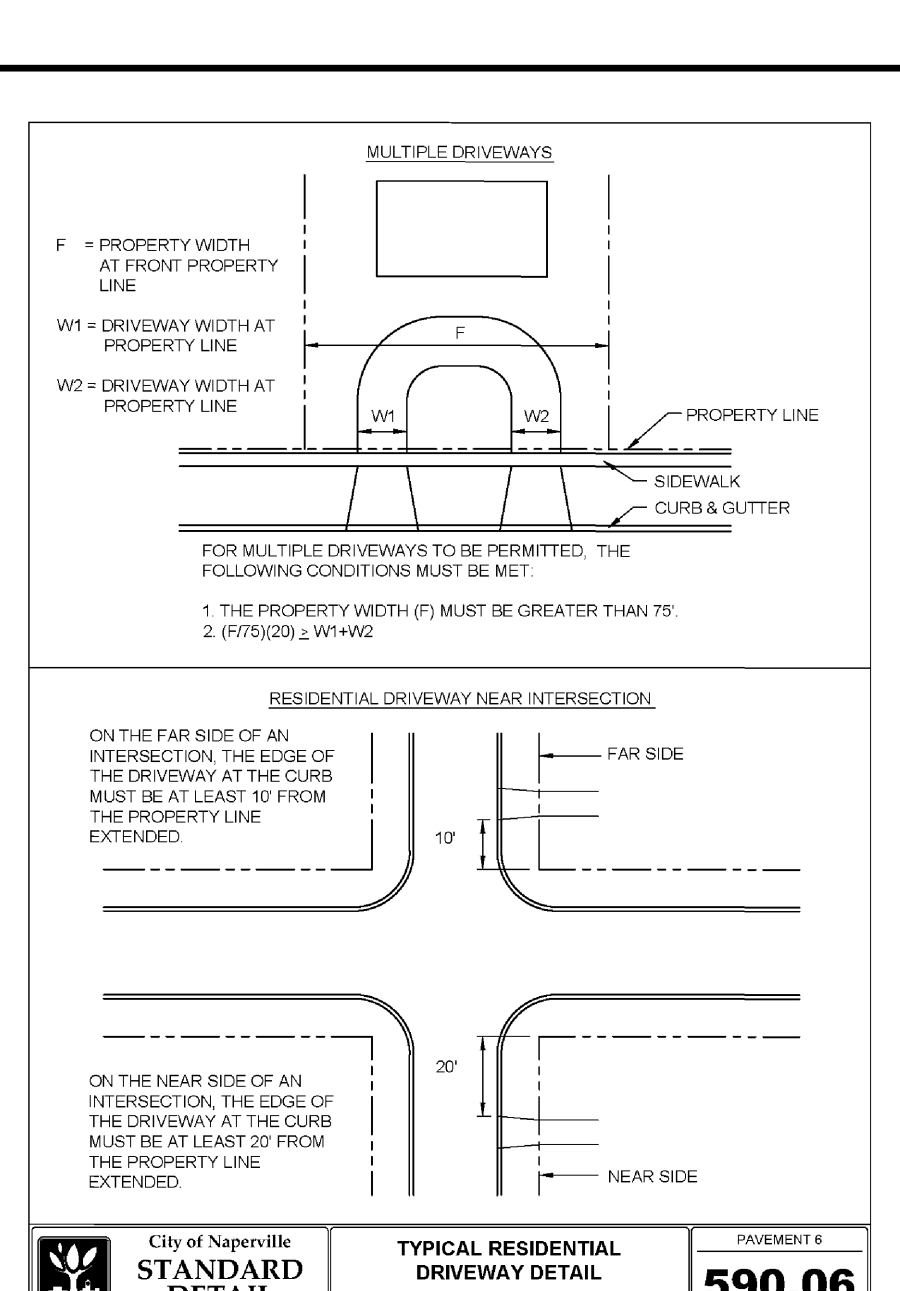
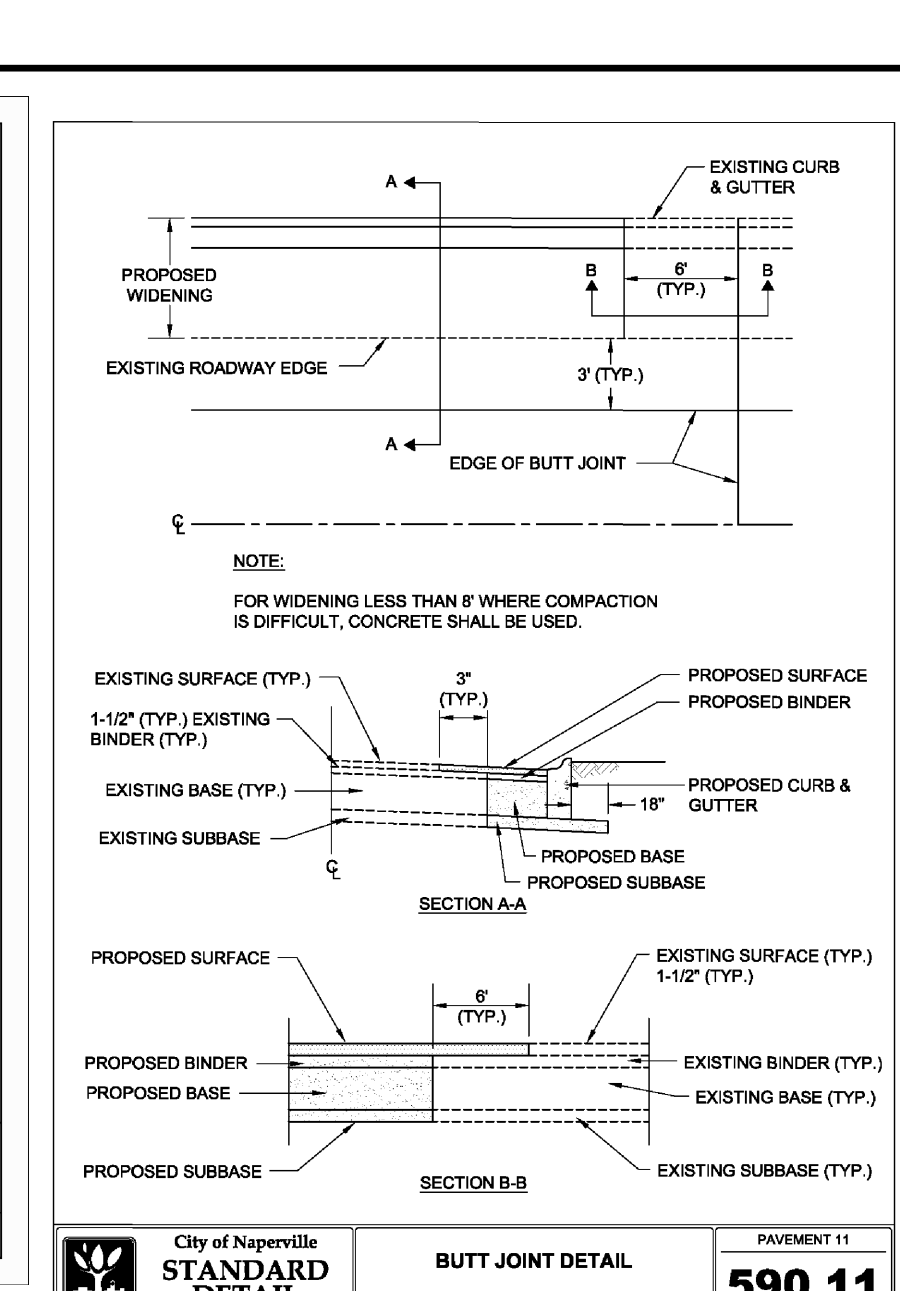
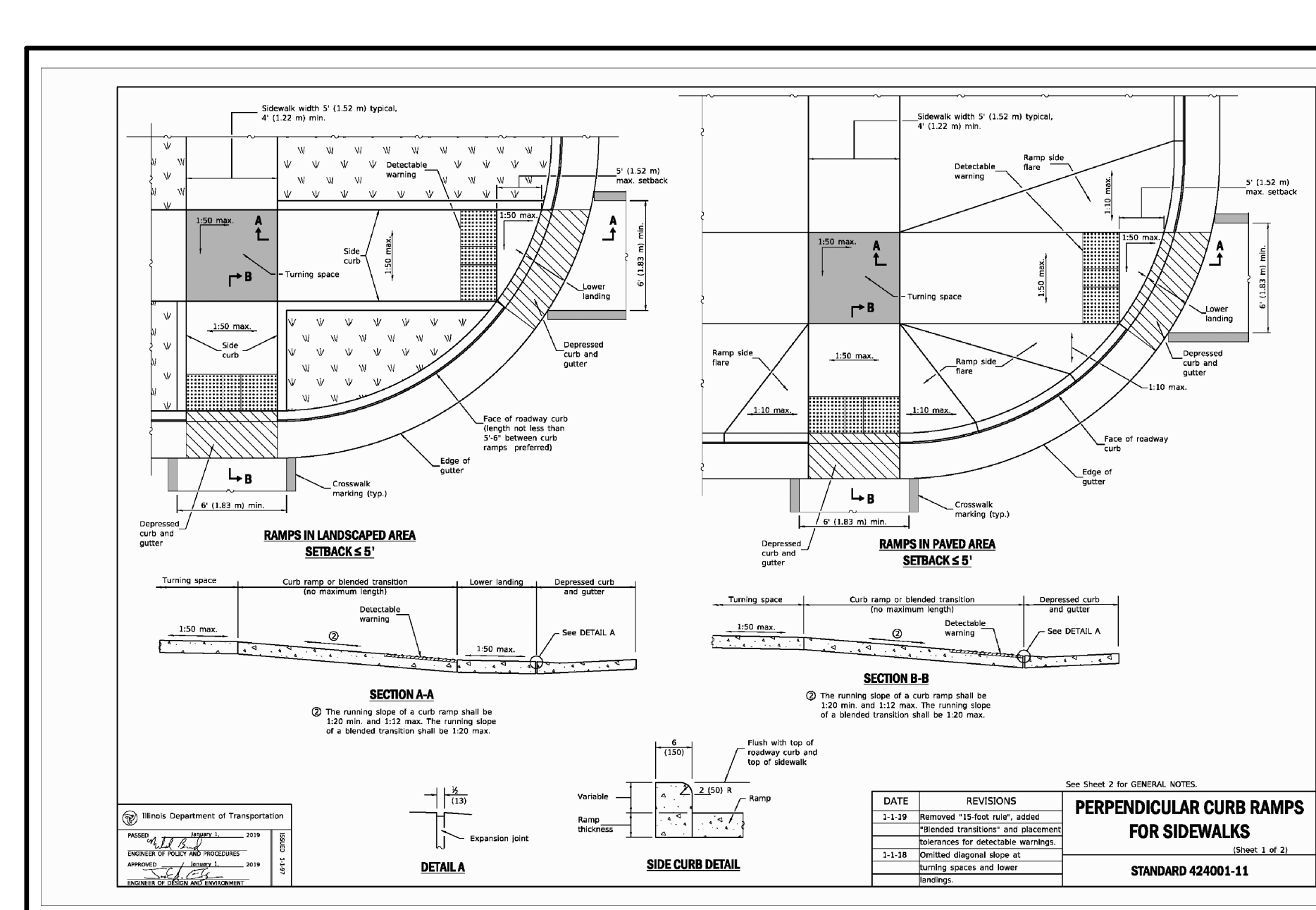
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E-Mail: info@cemcon.com Website: www.cemcon.com

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Δ	03-25-22/JGC	REVISED PER CITY COMMENTS DATED 02-09-2022	(SECOND SUBMITTAL)		

**CONSTRUCTION SPECIFICATIONS – GENERAL NOTES
ASHWOOD HEIGHTS – PHASE 2**

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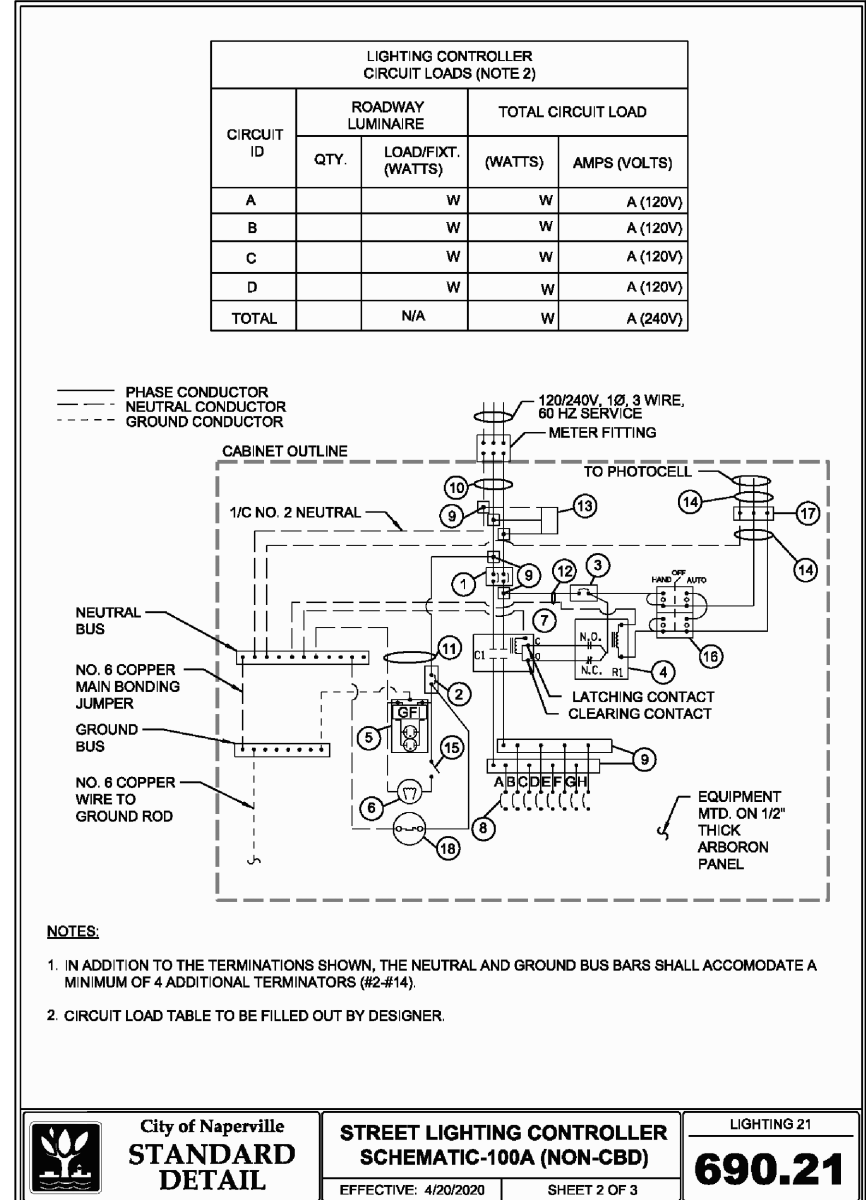
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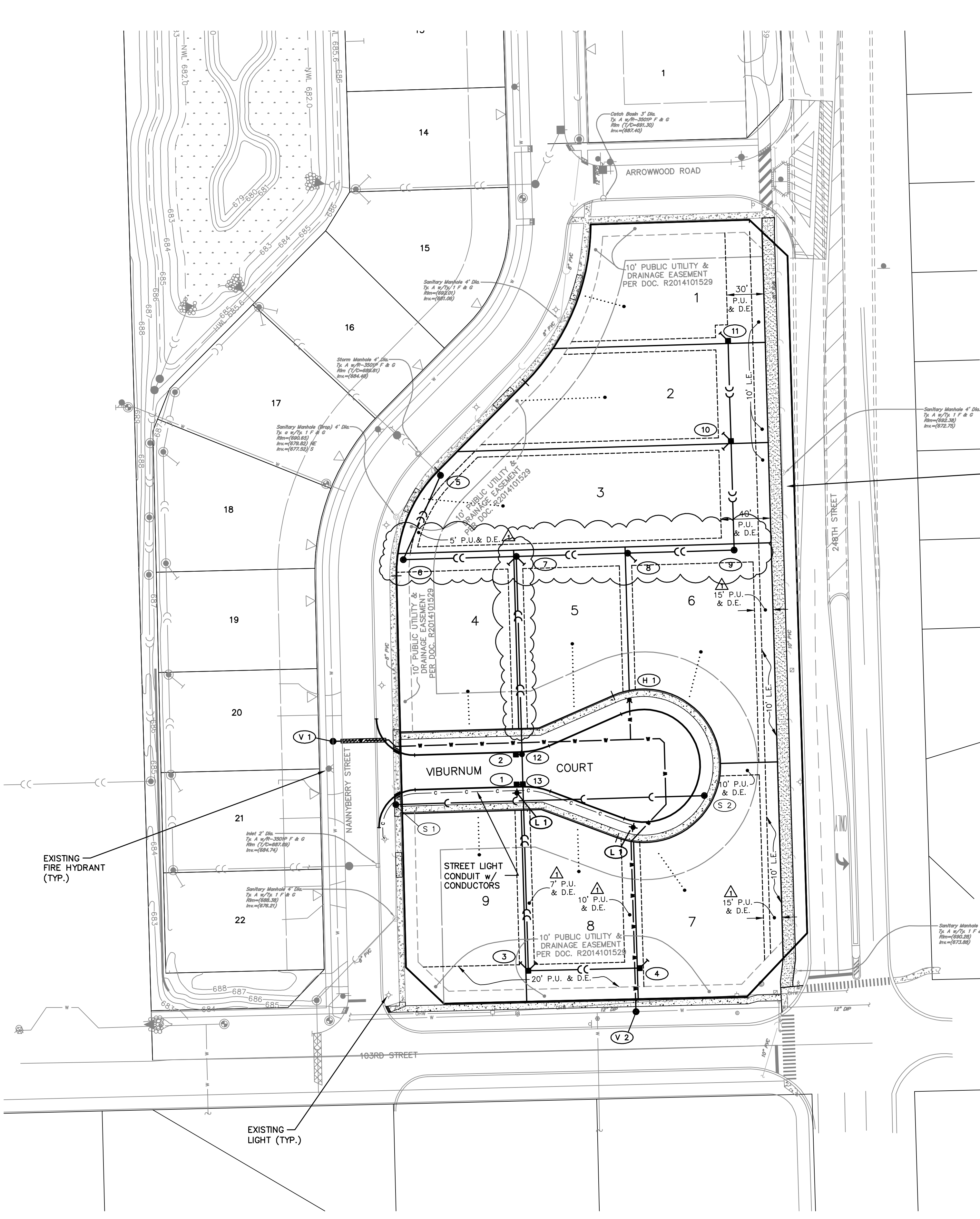
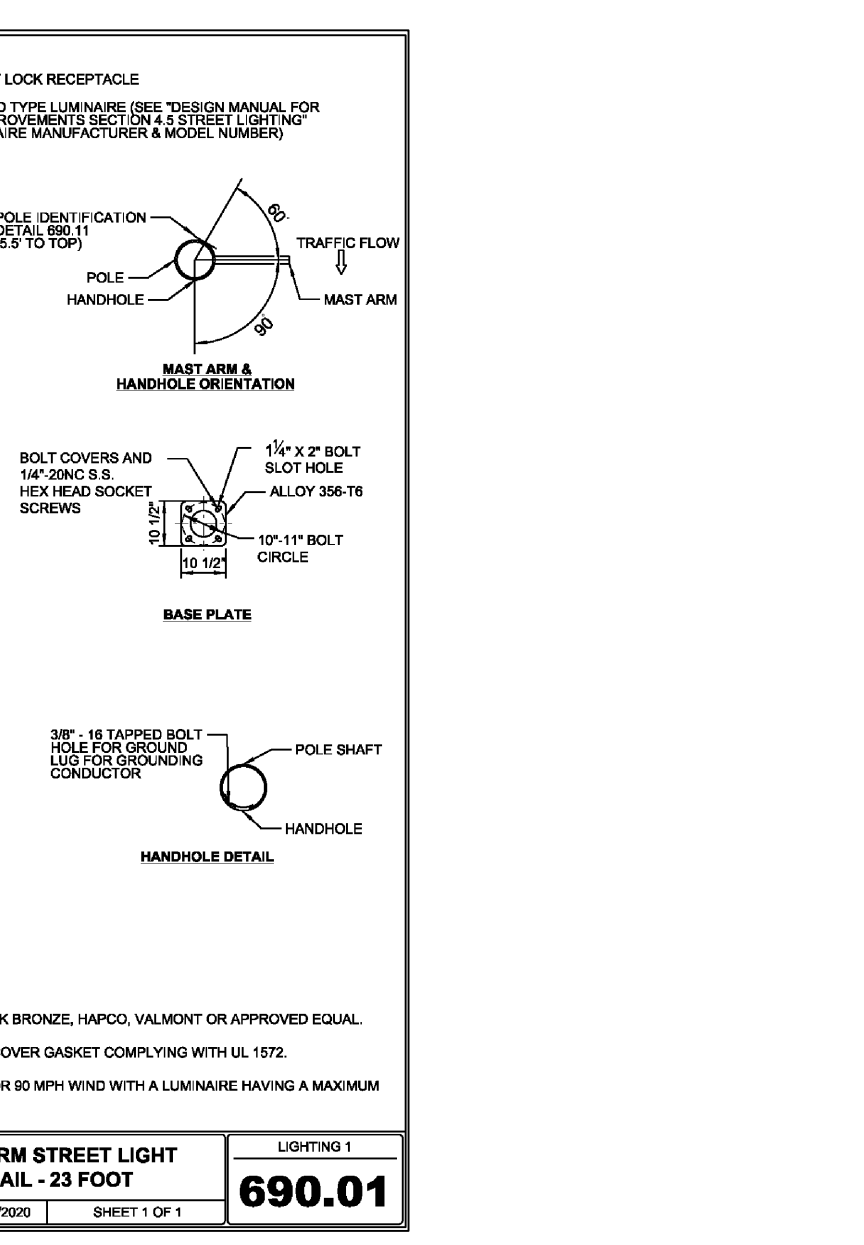
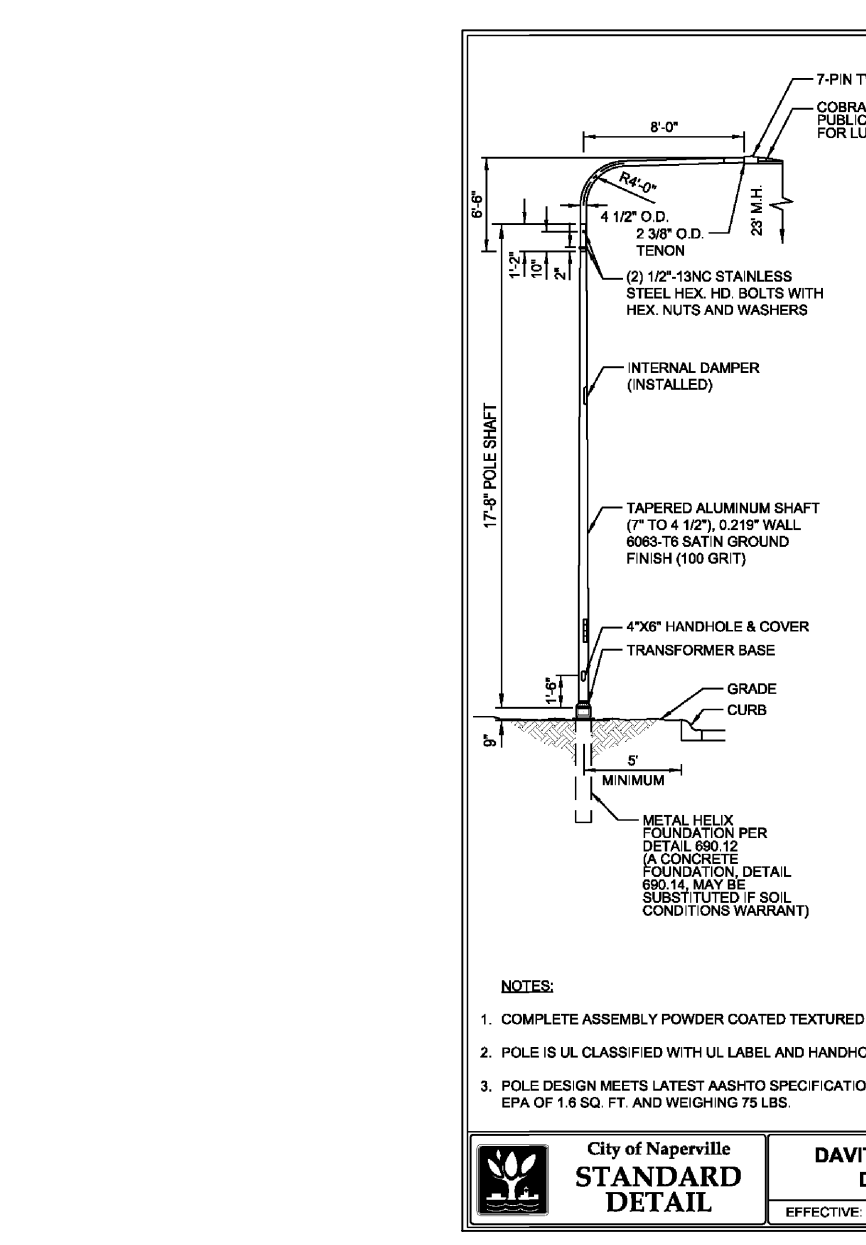
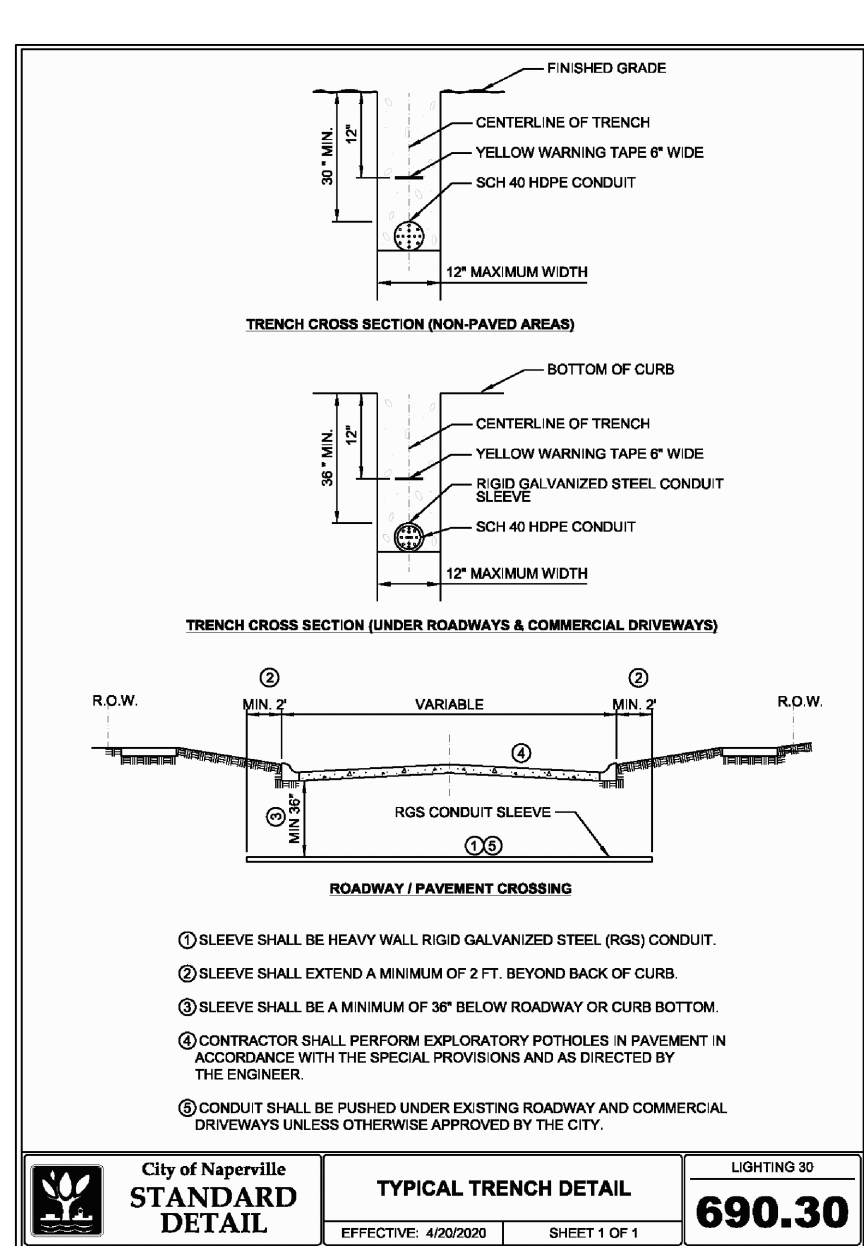
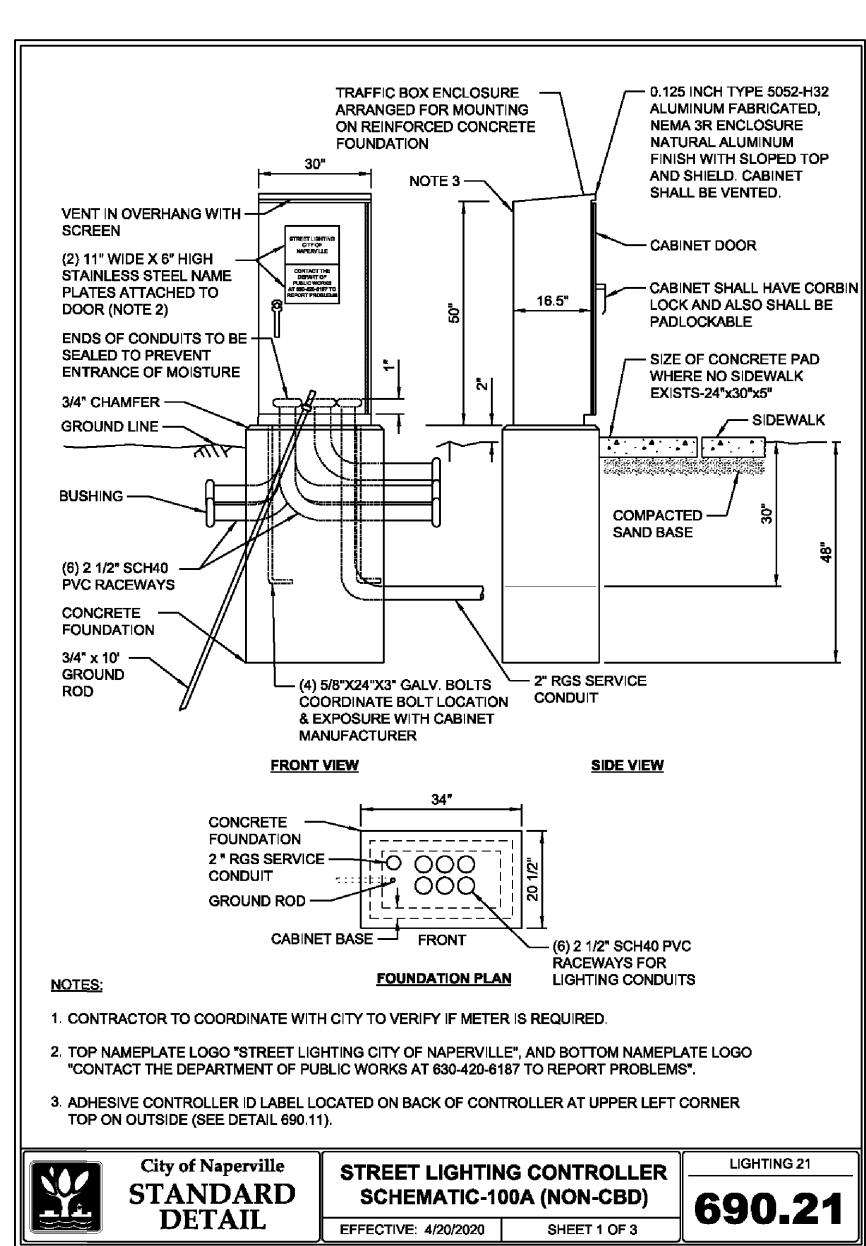
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NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE
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STREET PAVEMENT DESIGN AND DETAILS			
ASHWOOD HEIGHTS - PHASE 2			
FILE NAME: DETAILS	DSGN. BY: RWB	JOB NO.: 904.408	F.L.D. BK./PG.: D39/45-53
DIR: 904408	DRN. BY: LAL	DATE: 01-12-22	SCALE: 1" = N.T.S.
			SHEET NO. 04 of 15

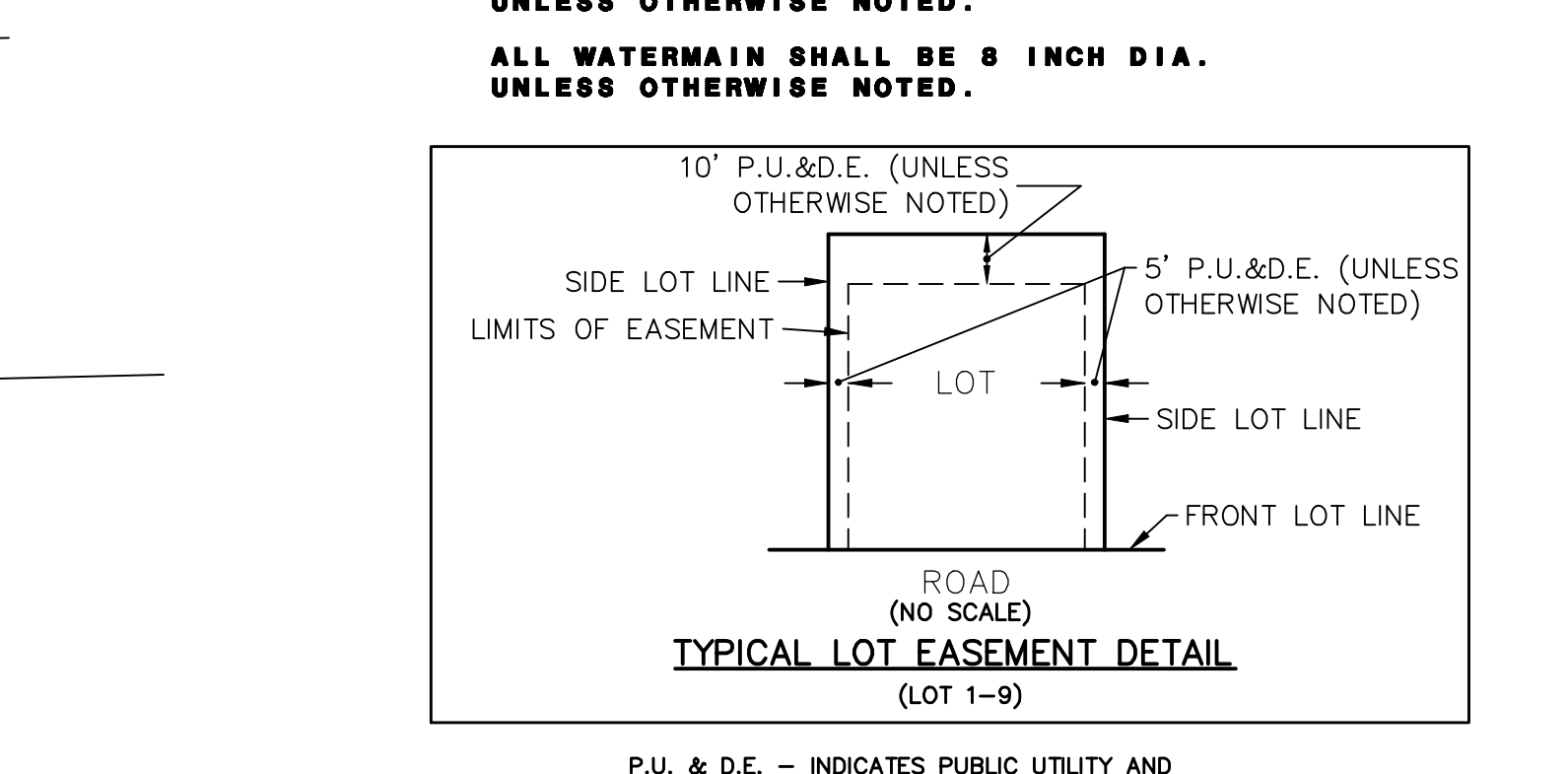
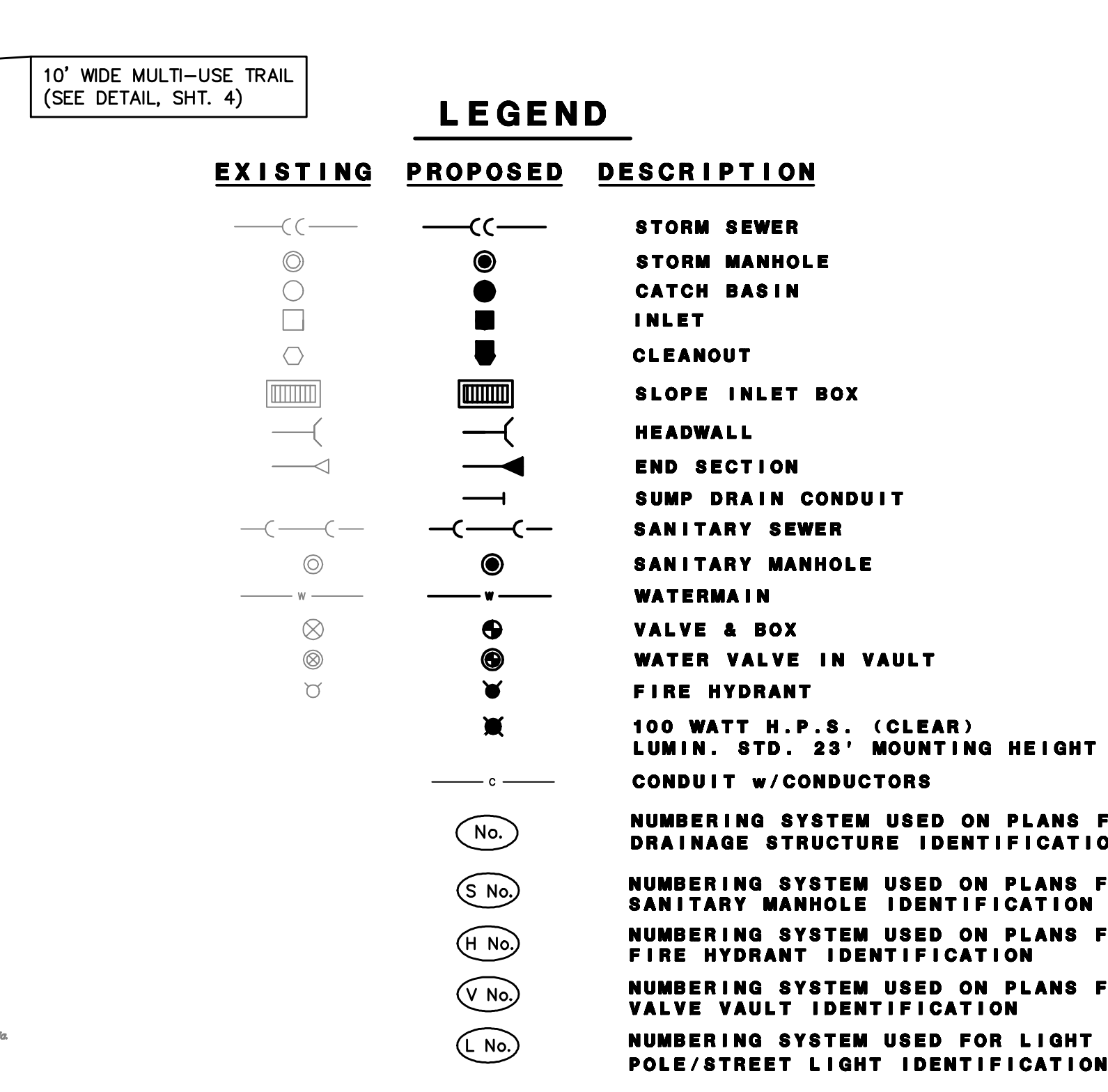
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ITEM	SPECIFICATION	MFG. MODEL NO. OR APPROX. EQVA.
1	MAIN CIRCUIT BREAKER	MOLDED CASE FRAME, 100 AMPERE, 3P, 240V SERVICE RATING, 80KAC
2	CIRCUIT BREAKER	MOLDED CASE FRAME, 15 AMPERE, 1P, 120V RATING, 10KAC
3	PHOTOCOUPLER	MOLDED CASE FRAME, 15 AMPERE, 1P, 120V RATING, 10KAC
4	AUXILIARY RELAY	1/2" X 1/2" OPERATED SPDT, 60/120 COIL, 2 NO. 8 TNC CONTACTS, 100VAC, 1/2" X 1/2" X 1/2" DIMENSIONS
5	RECEPTACLE	1/2" X 1/2" OPERATED SPDT, 60/120 COIL, 2 NO. 8 TNC CONTACTS, 100VAC, 1/2" X 1/2" X 1/2" DIMENSIONS
6	CABINET LIGHT	120V VAPORPROOF FIXTURE, 10W, 8000K
7	CONTRACTOR	100 AMPERE, 3P, 120V COIL, MECHANICALLY HELD
8	BRANCH LINE CIRCUIT BREAKER	MOLDED CASE FRAME, 15 AMPERE, 1P, 120V RATING, 10KAC
9	POWER DISTRIBUTION BLOCK	800 VOLTS, 180 AMPERE, 100KAC
10	CONTROL WIRE	3400V XLP NO. 2
11	SURGE ARRESTOR	2400V XLP NO. 12
12	PHOTOELECTRIC CONTROL WIRE	2400V XLP NO. 12
13	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD
14	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD
15	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD
16	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD
17	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD
18	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD
19	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD
20	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD
21	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD
22	DOOR SWITCH	100 AMPERE, 1P, 120V COIL, MECHANICALLY HELD



- ### GENERAL NOTES
- ALL ELECTRIC FACILITIES WILL BE INSTALLED PURSUANT TO SECTION 8-1C-3 OF THE CITY OF NAPERVILLE MUNICIPAL CODE.
 - CONTRACTOR WILL COORDINATE UNDERGROUND WIRING INSTALLATION AND LOCATION OF TRANSFORMERS WITH NAPERVILLE ELECTRICAL DEPARTMENT.
 - LAYOUT FOR STREET LIGHTS SHOULD BE REFERENCED FROM THESE PLANS, AND CONFIRMED WITH THE RECORDED PLAT OF SUBDIVISION.
 - LUMINAIRE STANDARDS SHALL BE LOCATED 5' BEHIND THE CURB OR AS DIRECTED BY N.E.D.
 - SEE SHEETS 5, 11 AND 13 FOR PROPOSED LOCATION OF UNDERGROUND UTILITIES.
 - ALL LUMINAIRES WITH STANDARDS SHALL BE INSTALLED COMPLETE WITH DIRECT BURIAL CABLE, AS REQUIRED TO CONNECT TO N.E.D. TRANSFORMERS.
 - CONTRACTOR SHALL NOTIFY N.E.D. 30 DAYS BEFORE CONSTRUCTION OF CURBS AND STREET PAVEMENTS FOR INSTALLATION OF ELECTRICAL CONDUIT UNDER ROADWAYS. AT THE TIME OF NOTIFICATION, STREETS SHALL BE WITHIN 0.1' OF SUB-BASE GRADE.
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR POLES AND LUMINAIRES (INCLUDING BALLAST INFORMATION) TO THE ENGINEER AND N.E.D. FOR REVIEW BEFORE ORDERING LIGHTING MATERIALS.
 - YELLOW WARNING TAPE SHALL BE PLACED IN THE TRENCH THROUGHOUT THE ENTIRE CABLE ROUTE FOR THE STREET LIGHTING SYSTEM. TAPE SHALL BE LOCATED 12" ABOVE STREET LIGHT CONDUCTOR.
 - ELECTRIC WARNING TAPE SHALL BE YELLOW WITH THE WORD "ELECTRIC" PRINTED ON IT. IT SHALL BE INSTALLED IN THE SAME TRENCH AS THE STREET LIGHT CABLE BUT IT WILL BE ONE FOOT BELOW FINAL GRADE.



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Δ	03-25-22/JGC	REVISED PER CITY COMMENTS DATED 02-09-2022 (SECOND SUBMITTAL)		
Δ	04-13-22/KMS	REVISED PER CITY COMMENTS DATED 04-04-22 2(REQUIRED SUBMITTAL)		

MASTER UTILITY PLAN AND LIGHTING DETAILS
ASHWOOD HEIGHTS - PHASE 2

FILE NAME: OVRUTIL	DSGN. BY: RWB	JOB NO.: 904.408	FLD. BK./PG.: D39/45-53	SHEET NO. 05 of 15
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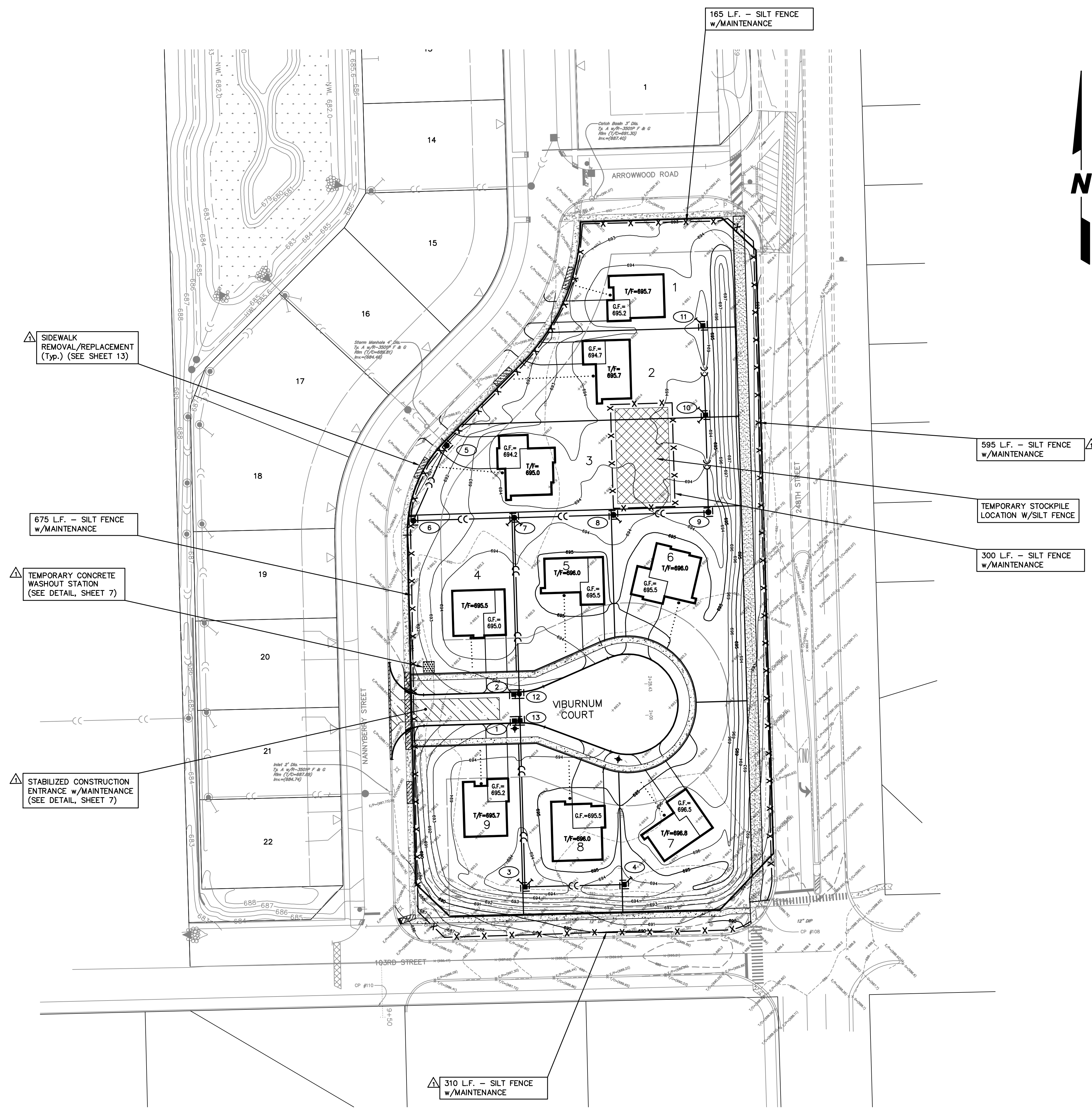
GENERAL NOTES
FOR

WILL/SOUTH COOK SOIL & WATER CONSERVATION DISTRICT

1. **ROCK OUTLET PROTECTION**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 910 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).
DETAIL MAY BE FOUND ON "OVERALL SOIL EROSION, SEDIMENTATION CONTROL PLAN AND DETAILS" FOR ASHWOOD PARK NORTH (ILLINOIS URBAN MANUAL DETAIL NUMBER IL 610).
2. **TOP SOILING**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 981 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).
3. **SILT FENCE**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 920 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).
DETAIL MAY BE FOUND ON "OVERALL SOIL EROSION, SEDIMENTATION CONTROL PLAN AND DETAILS" FOR ASHWOOD PARK NORTH (ILLINOIS URBAN MANUAL DETAIL NUMBER IL 620).
4. **EROSION BLANKET**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 830 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).
DETAIL MAY BE FOUND ON "OVERALL SOIL EROSION, SEDIMENTATION CONTROL PLAN AND DETAILS" FOR ASHWOOD PARK NORTH (ILLINOIS URBAN MANUAL DETAIL NUMBER IL 530).
5. **MULCHING**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 875 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).
6. **PORTABLE SETTLING TANK**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 895 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).
7. **TEMPORARY SEEDING**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 965 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).
8. **PERMANENT SEEDING**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 880 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).
9. **DUST CONTROL**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 825 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).
10. **STABILIZED CONSTRUCTION ENTRANCE**
NARRATIVE CAN BE FOUND IN THE ILLINOIS URBAN MANUAL—CODE 930 (SEE SUPPLEMENTAL BINDER FOR EXCERPTS).

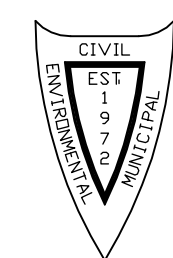
LEGEND

EXISTING	PROPOSED	DESCRIPTION
○	●	MANHOLE
□	■	CATCH BASIN
	■	INLET
	■	CLEANOUT
	■	SLOPE INLET BOX
	■	HEADWALL
	■	END SECTION
	■	STORM SEWER
	■	MANHOLE OR INLET FILTER INSERT
	▲	TRIANGULAR SILT DIKE
	---	SILT FENCE DITCH CHECK
	-x-x-	SILT FENCE WITH MAINTENANCE
	■	RIP-RAP
	NO	NUMBERING SYSTEM USED ON PLANS FOR DRAINAGE STRUCTURE IDENTIFICATION
	■	STABILIZED CONSTRUCTION ENTRANCE
	■	TEMPORARY TOPSOIL STOCKPILE LOCATION
	■	TEMPORARY CONCRETE WASHOUT
	▲	SIDEWALK REMOVAL



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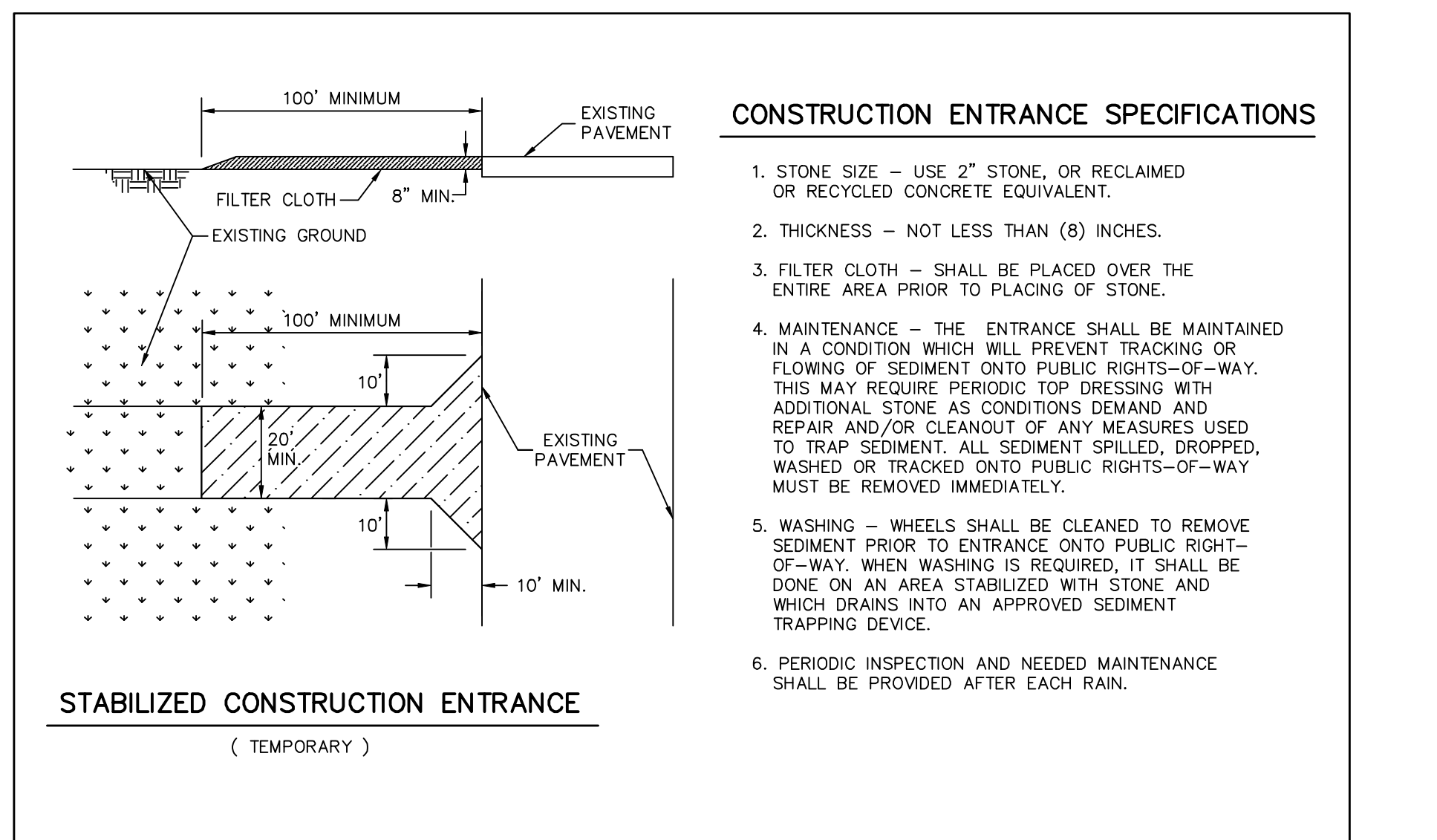
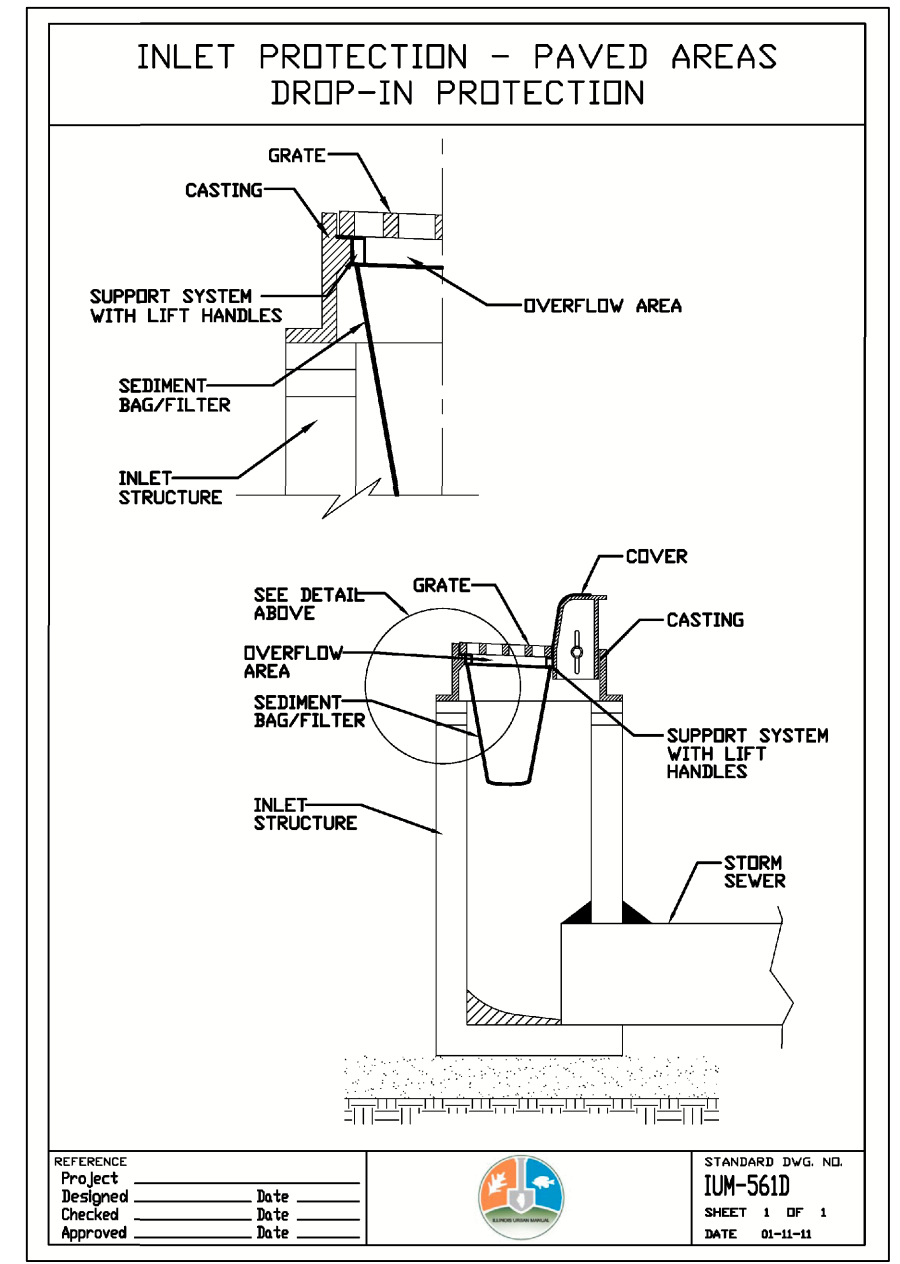
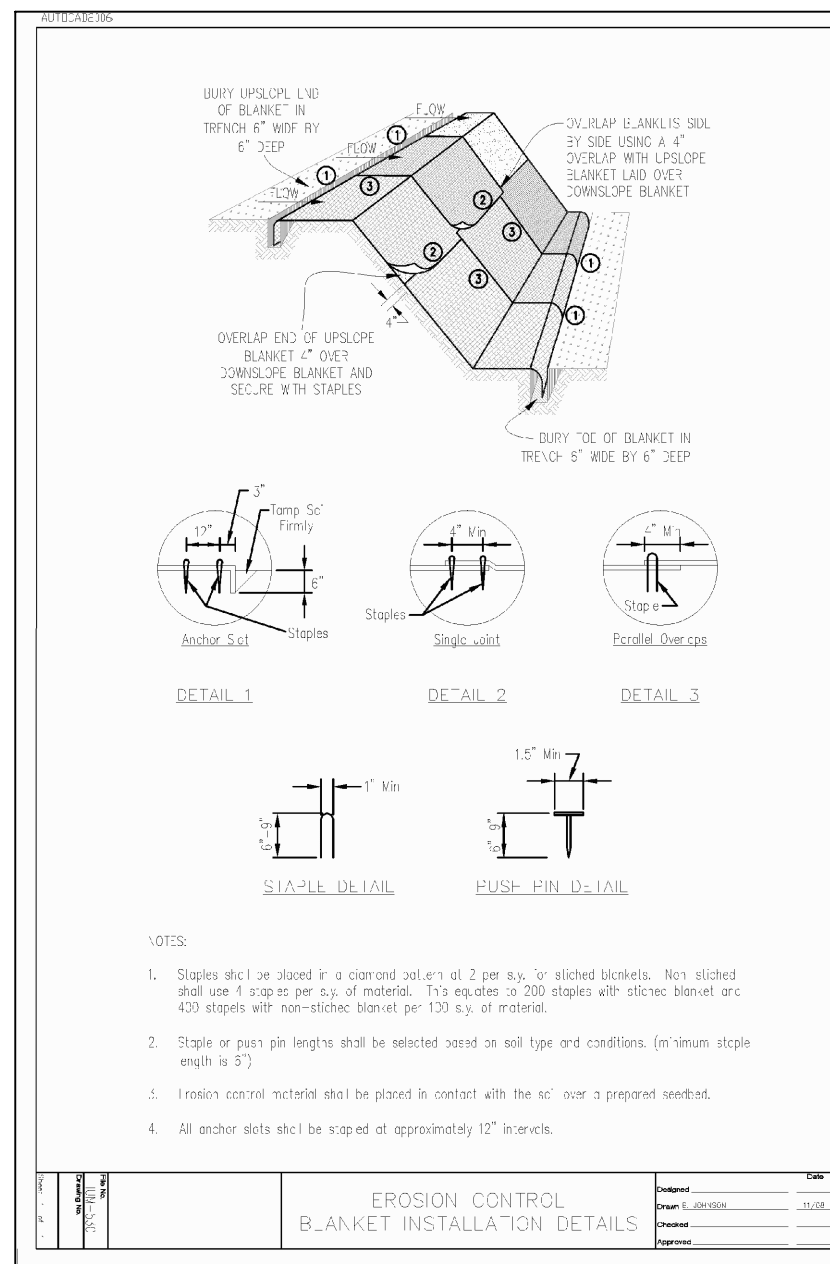
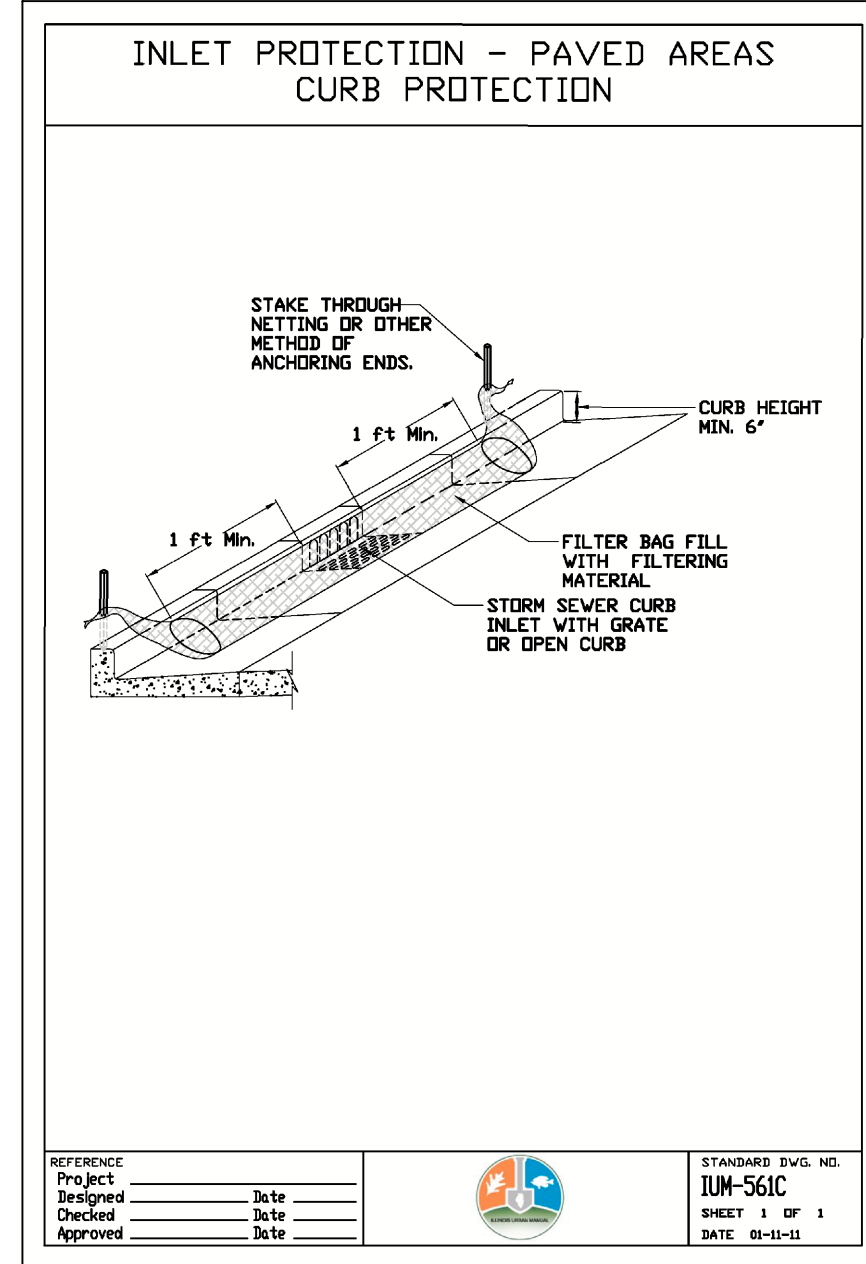
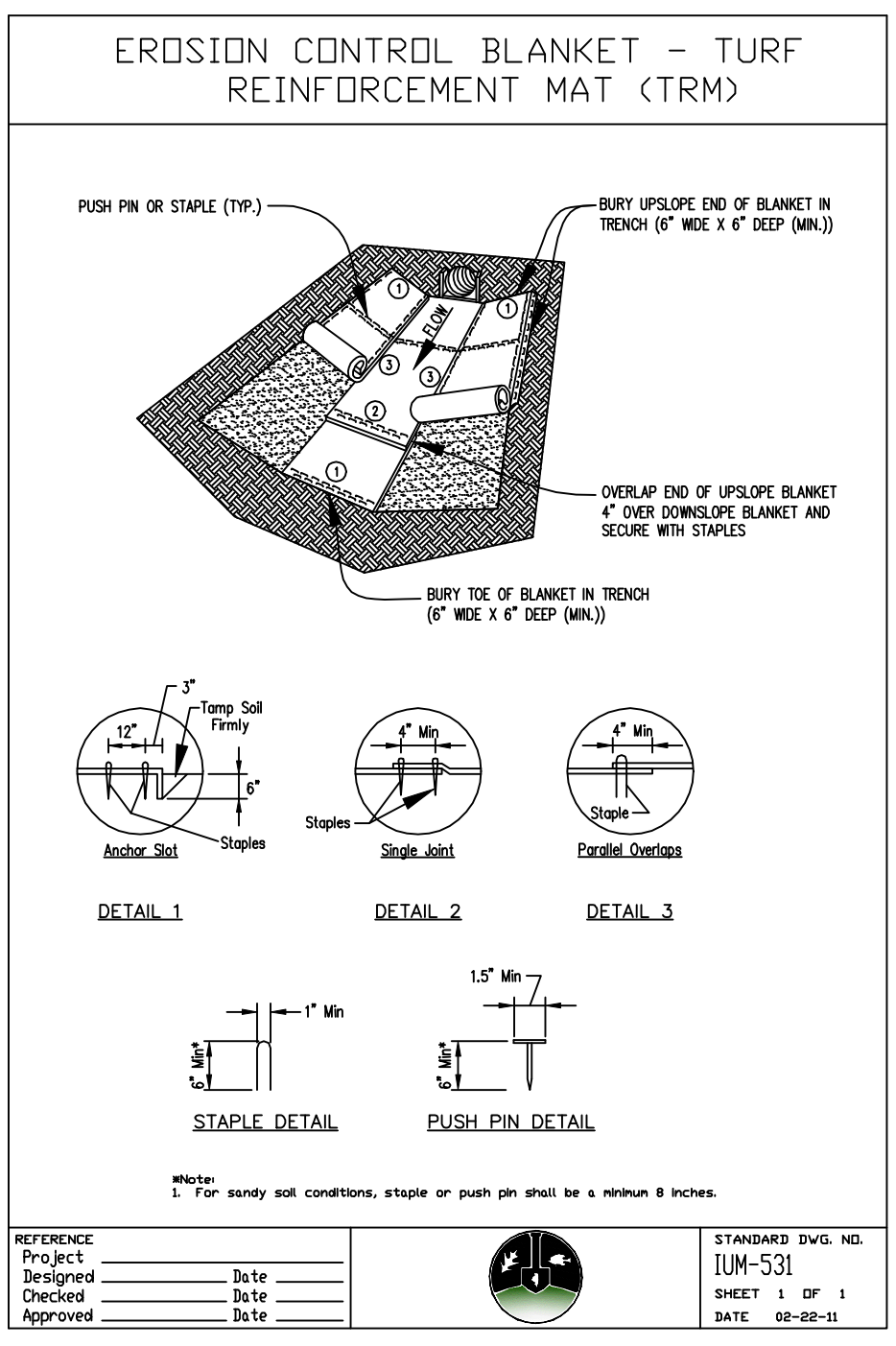
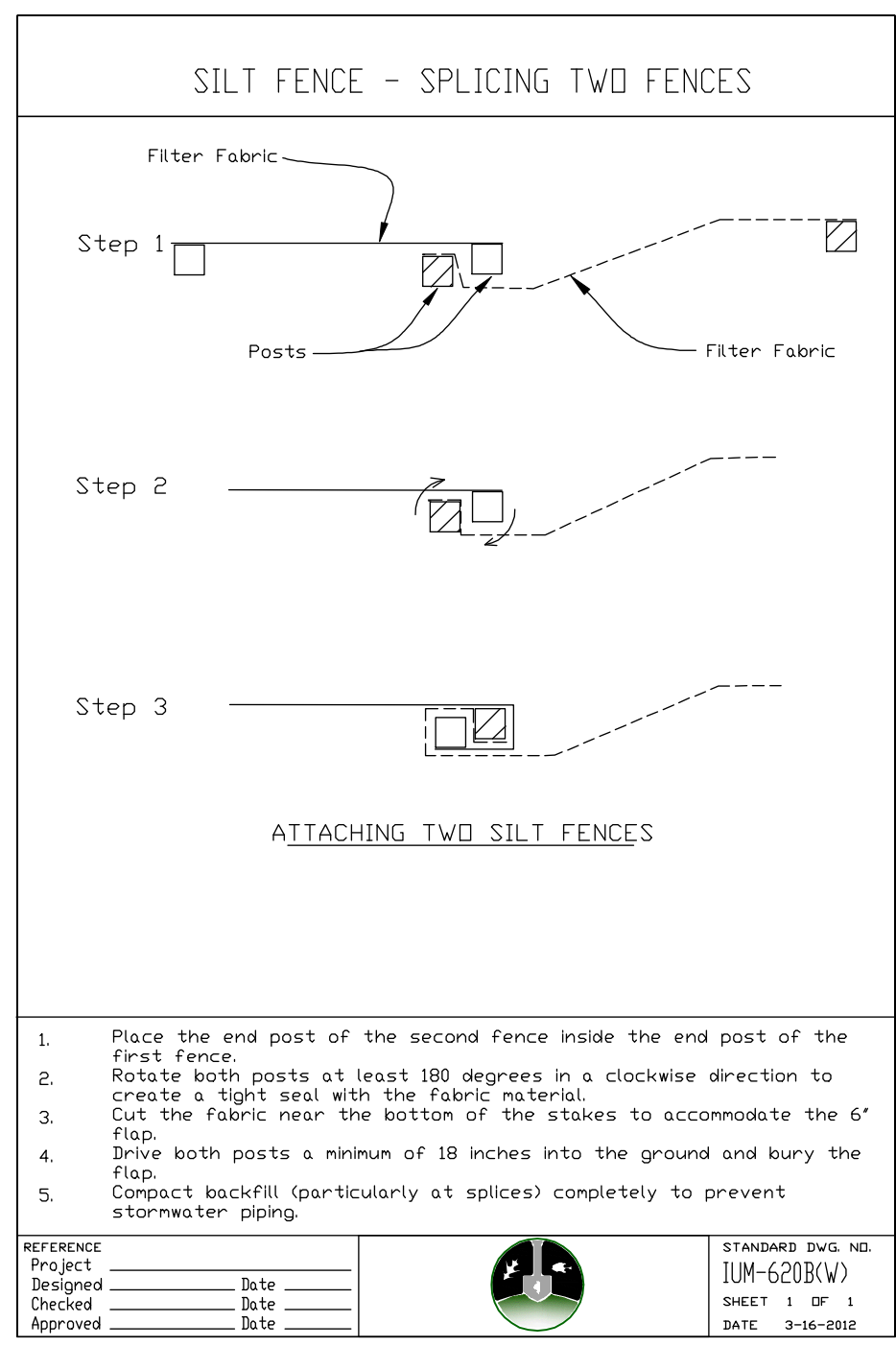
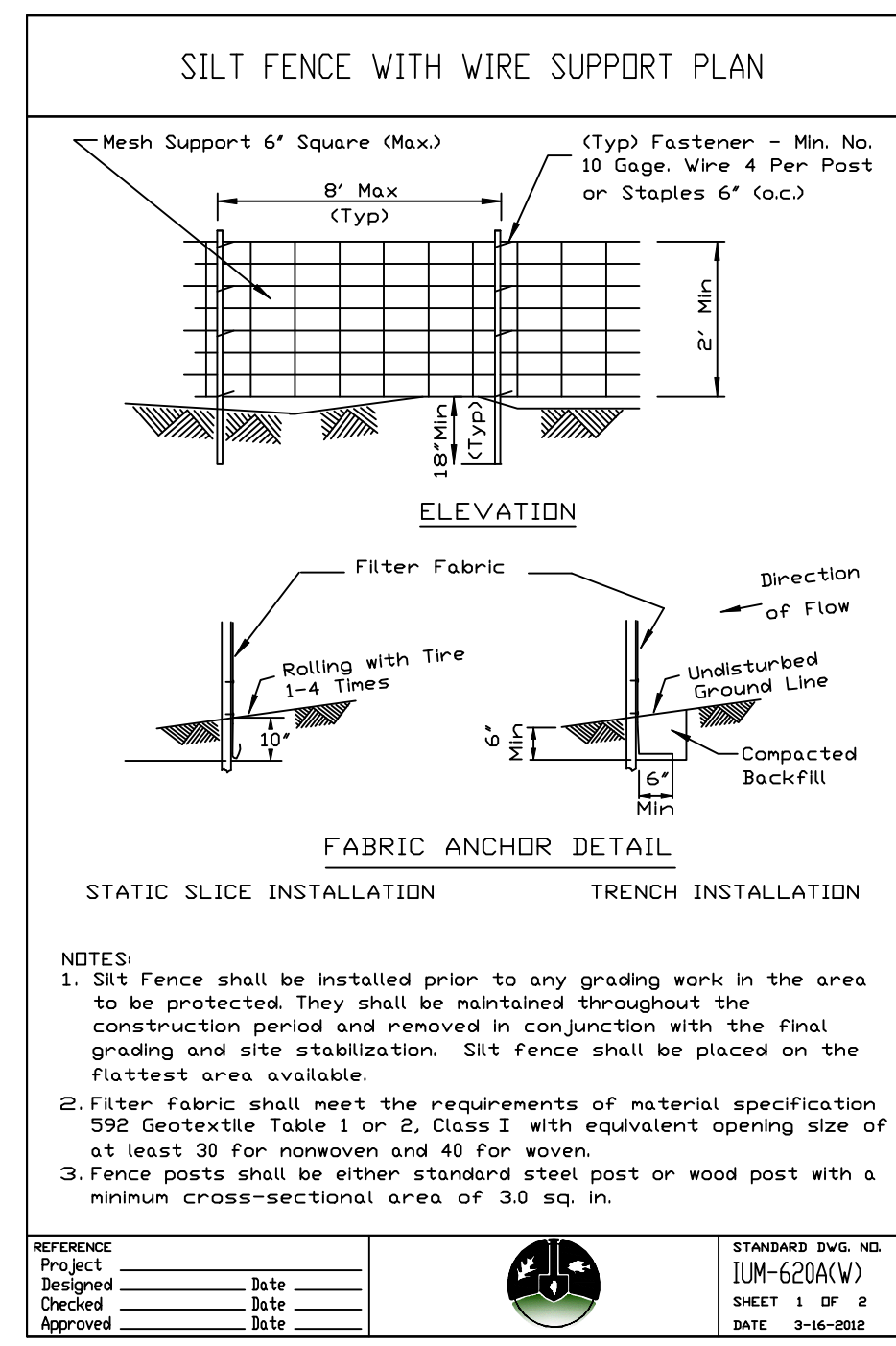
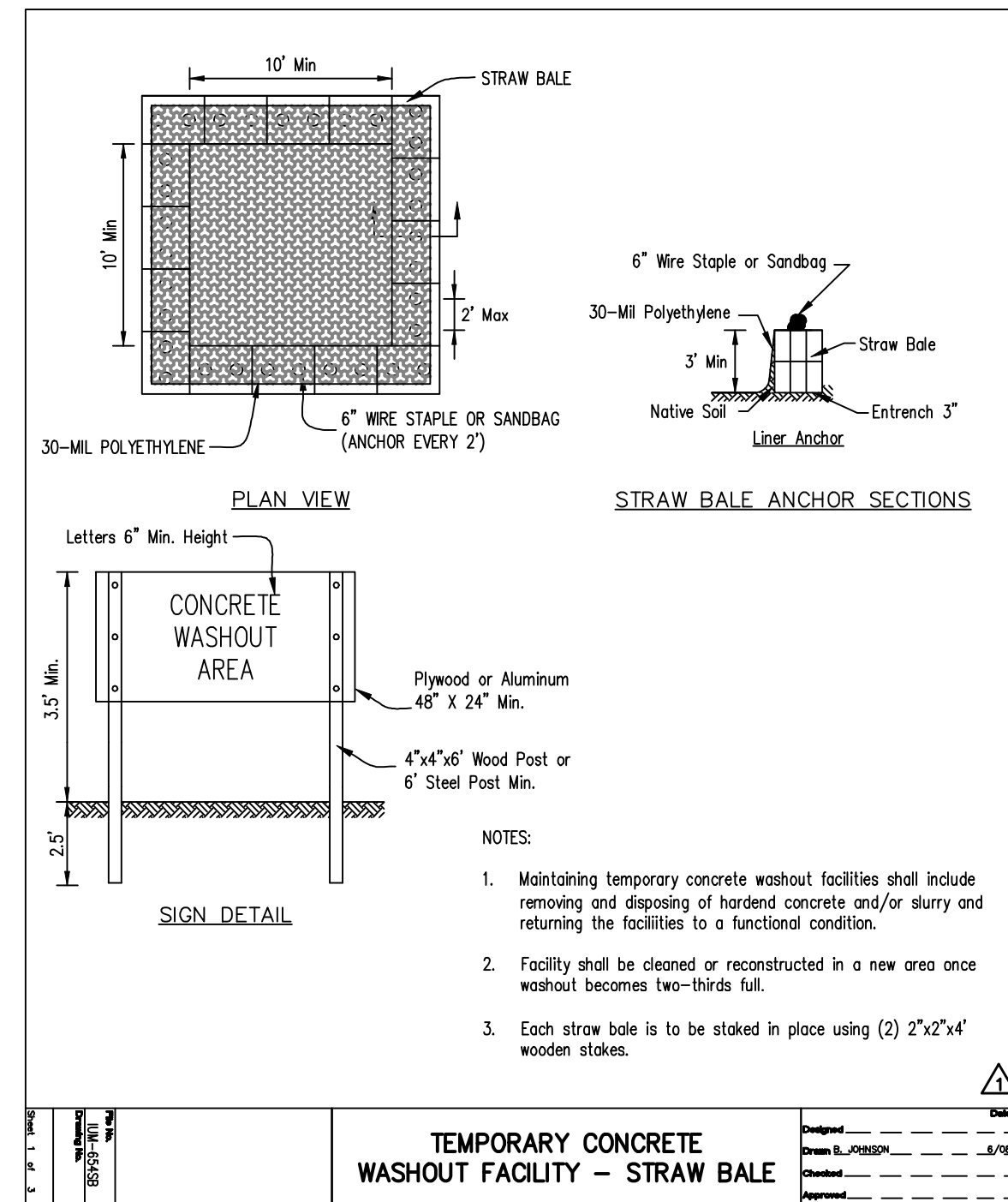
SOIL EROSION AND SEDIMENTATION CONTROL PLAN

ASHWOOD HEIGHTS - PHASE 2

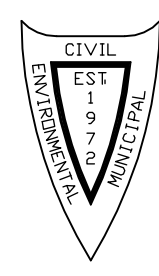
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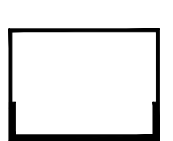
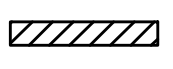
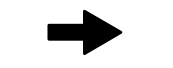

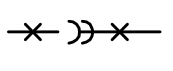


SOIL EROSION AND SEDIMENTATION CONTROL DETAILS

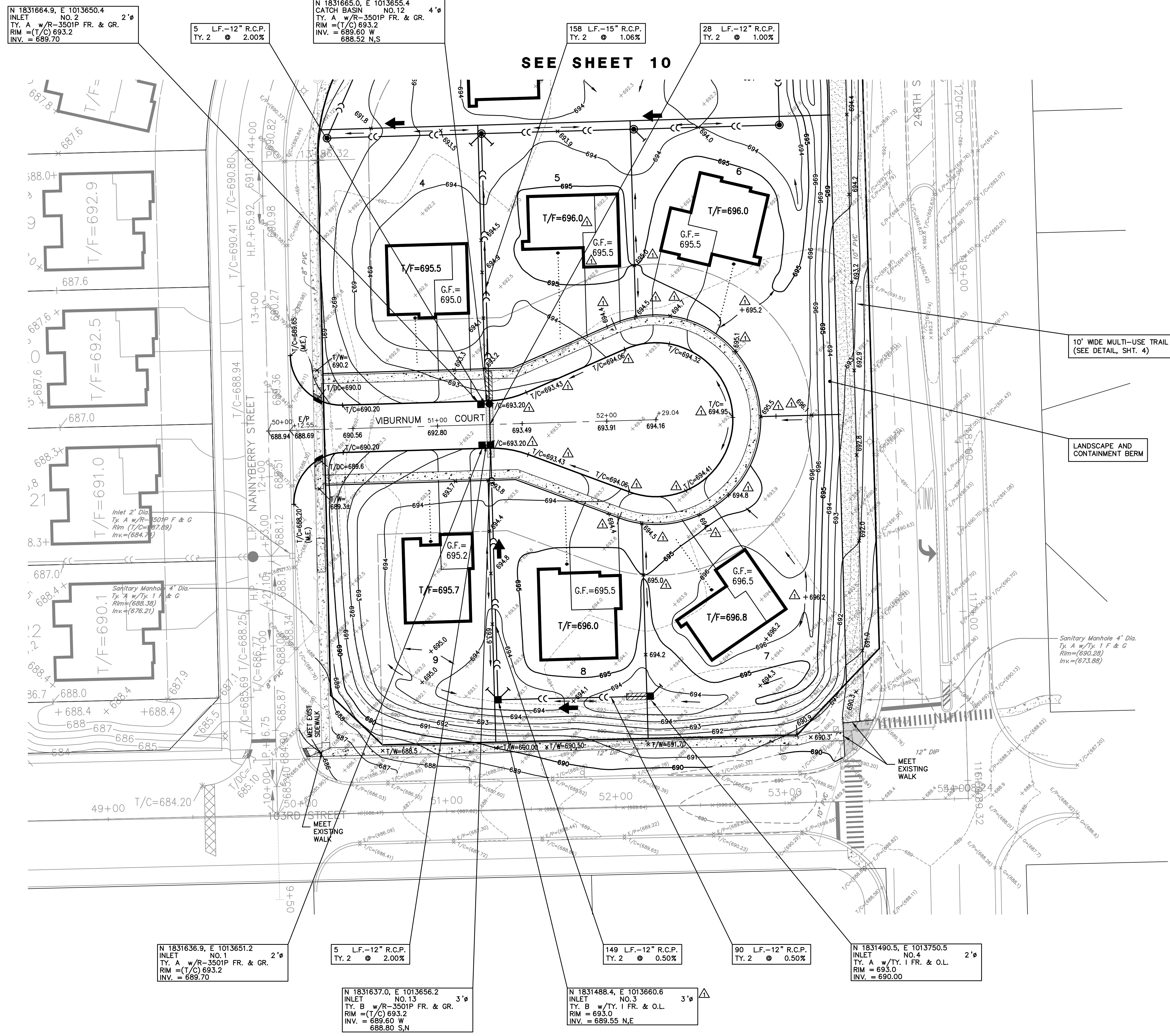
ASHWOOD HEIGHTS - PHASE 2

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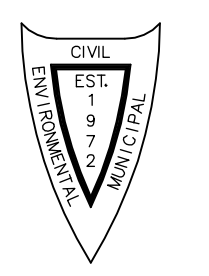
DRAINAGE & GRADING NOTES

1. ELEVATIONS SHOWN FOR ALL CURB INLETS, CATCH BASINS, AND MANHOLES ARE TOP OF CURB.
2. ALL CURBS SHALL BE BACKFILLED TO WITHIN 6 INCHES OF THE TOP OF CURB.
3. ALL BACK YARD SWALES SHALL BE CUT OR FILLED 6 INCHES BELOW FINISHED GRADE.
4. EXISTING DRAINAGE TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE PRESERVED OR REPAIRED IN ACCORDANCE WITH SPECIFICATION (SEE SHEET 2).
5. T/F - INDICATES PROPOSED TOP OF FOUNDATION ELEVATIONS AND THE LOWEST OPENING IN A CONVENTIONAL FOUNDATION WHERE SURFACE RUNOFF CAN ENTER THE FOUNDATION.
6. THE TOP OF WINDOW WELLS SHALL BE CONSTRUCTED NO LOWER THAN THE TOP OF FOUNDATION ELEVATION (T/F).
7. THE FINISHED TOPSOIL ELEVATION AT THE FOUNDATION SHOULD GENERALLY BE 0.7 FEET BELOW THE TOP OF FOUNDATION ELEVATION UNLESS INDICATED OTHERWISE.
8. G/F - INDICATES THE PROPOSED GARAGE FLOOR ELEVATION. THE PLACEMENT OF THE GARAGE / DRIVEWAY IS CRITICAL WHEN AND WHERE SHOWN ON THIS PLAN. IT IS MANDATORY THAT THE GARAGE BE CONSTRUCTED ON THE SIDE INDICATED.
9. L.O. OR W.O. - INDICATED THOSE LOTS WHERE A "LOOK-OUT" (L.O.) OR "WALK-OUT" (W.O.) BASEMENT CAN BE CONSTRUCTED. THE REQUIRED ELEVATION OF THE LOWEST FOUNDATION OPENING IS GIVEN. IF A LOOK-OUT OR WALK-OUT BASEMENT IS NOT DESIRED, A DETAILED GRADING PLAN OF THE ALTERNATE DESIGN MUST BE SUBMITTED TO THE GOVERNING AUTHORITY.
10.  - ACCENTED SIDES OF PROPOSED HOUSE FOUNDATIONS ARE INTENDED TO INDICATE THE APPROXIMATE LOCATION WHERE A LOOK-OUT OR WALK-OUT BASEMENT MAY BE CONSTRUCTED OR TO INDICATE THAT SPECIAL CONSTRUCTION MEASURES MUST BE EMPLOYED IN ORDER TO MINIMIZE SIDE YARD, REAR YARD AND / OR FRONT YARD GRADIENTS (E.G. DROPPED SIDING, STEPPED FOUNDATION, RETAINING WALL, ETC.) - SEE NOTES ABOVE FOR FURTHER DETAILS.
11. LOT DIMENSIONS SHOWN ON THIS PLAN MAY NOT NECESSARILY CORRESPOND TO THE PLATTED DIMENSIONS. REFER TO THE FINAL RECORDED PLAT OF SUBDIVISION.
12.  - WATERMAIN PROTECTION (SEE SHEETS 2 & 3 FOR DETAILS).
13.  - INDICATES THE LOCATION AND DIRECTION OF AN OVERLAND FLOOD ROUTE THAT MUST BE RESPECTED IN ALL FINAL GRADING OPERATIONS (SEE DETAIL).
14.  - DENOTES AREA WHERE GRANULAR TRENCH BACKFILL IS REQUIRED.
15. (ELEV.) - INDICATES EXISTING ELEVATION.
16.  - DENOTES EXISTING UTILITY TO BE REMOVED.
17. ALL REAR YARD STORM SEWERS ARE TO BE OFFSET 5 FEET FROM LOT LINE UNLESS OTHERWISE NOTED.
18.  - INDICATES DRIVEWAY LOCATION.
19.  - INDICATES PVC SUMP DRAIN CONDUIT.



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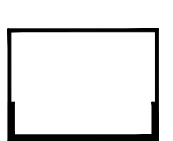
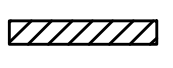

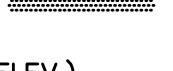



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DRAINAGE AND GRADING PLAN
ASHWOOD HEIGHTS - PHASE 2

FILE NAME: OVRGRADE	DSGN. BY: RWB	JOB NO.: 904.408	FLD. BK./PG.: D39/45-53	SHEET NO.
DIR: 904408	DRN. BY: LAL	DATE: 01-12-22	SCALE: 1" = 30'	09 of 15

DRAINAGE & GRADING NOTES

1. ELEVATIONS SHOWN FOR ALL CURB INLETS, CATCH BASINS, AND MANHOLES ARE TOP OF CURB.
2. ALL CURBS SHALL BE BACKFILLED TO WITHIN 6 INCHES OF THE TOP OF CURB.
3. ALL BACK YARD SWALES SHALL BE CUT OR FILLED 6 INCHES BELOW FINISHED GRADE.
4. EXISTING DRAINAGE TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE PRESERVED OR REPAIRED IN ACCORDANCE WITH SPECIFICATION (SEE SHEET 2).
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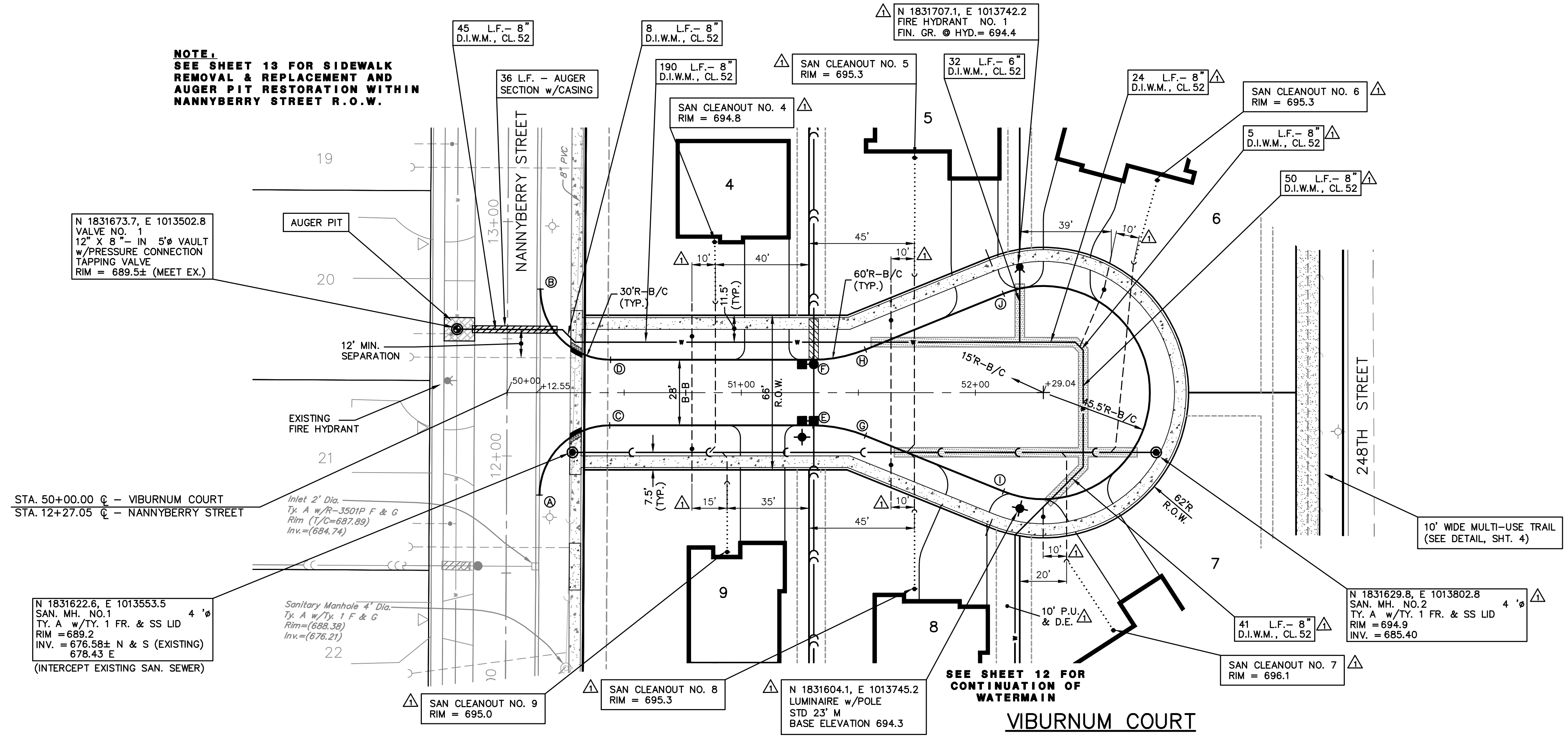
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					DESCRIPTION

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DRAINAGE AND GRADING PLAN
ASHWOOD HEIGHTS - PHASE 2

FILE NAME: OVRGRADE	DSGN. BY: RWB	JOB NO.: 904.408	FLD. BK./PG.: D39/45-53	SHEET NO.
DIR: 904408	DRN. BY: LAL	DATE: 01-12-22	SCALE: 1" = 30'	10 of 15

NOTE:
SEE SHEET 13 FOR SIDEWALK
REMOVAL & REPLACEMENT AND
AUGER PIT RESTORATION WITHIN
NANNYBERRY STREET R.O.W.



CURB RETURN TABLE

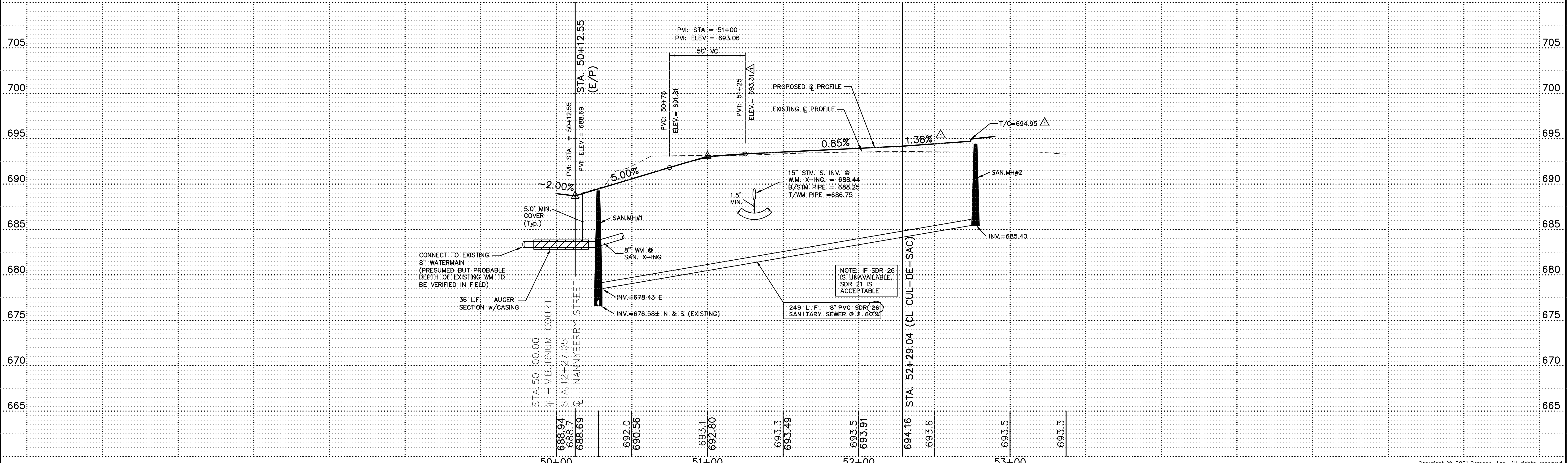
I.D.	STATION	OFFSET	T/C ELEV.
A	50+13.78	43.77' RT.	688.20 (M.E.)*
B	50+14.22	44.13' LT.	689.65 (M.E.)*
C	50+43.78	14.00' RT.	690.20
D	50+44.22	14.00' LT.	690.20
E	51+30.56	14.00' RT.	693.20
F	51+30.56	14.00' LT.	693.20
G	51+53.04	18.37' RT.	693.43
H	51+53.04	18.37' LT.	693.43
I	52+11.99	42.19' RT.	694.06
J	52+11.99	42.19' LT.	694.06

*M.E. = MEET EXISTING

- INDICATES TYPE M-3.12 CURB & GUTTER
- INDICATES TYPE M-3.12 CURB & GUTTER w/REVERSE PITCH GUTTER FLAG
- INDICATES DEPRESSED CURB
- INDICATES WATER MAIN PROTECTION
- INDICATES DETECTABLE WARNING STRIP
- INDICATES TRENCH BACKFILL
- INDICATES RISER REQUIRED
- INDICATES OVERHEAD SEWER REQUIRED
- INDICATES CURB RETURN
- INDICATES 6" PVC SDR 26 SANITARY SERVICE @ MINIMUM 1.0% SLOPE
- INDICATES 1 1/2" TYPE K COPPER WATER SERVICE w/B-BOX (SEE DETAIL ON OVERALL SANITARY SEWER AND WATERMAIN PLAN)
- INDICATES CLEANOUT AND FUTURE SERVICE EXTENSION

- NOTE:**
- SANITARY SEWER AND WATERMAIN SERVICES TO EXTEND 5' INTO LOTS 1-9.
 - SANITARY CLEANOUTS SHOWN ON THIS PLAN ARE SUBJECT TO CHANGE ACCORDING TO THE INDIVIDUAL SITE DEVELOPMENT PLANS FOR EACH LOT. SANITARY SERVICES AT THE TIME OF PUBLIC SEWER INSTALLATION SHALL EXTEND 5' INTO LOTS 1-9 AND BE STAKED AT TERMINUS AND EXTENDED WITH CONSTRUCTION OF THE SINGLE FAMILY RESIDENCE.

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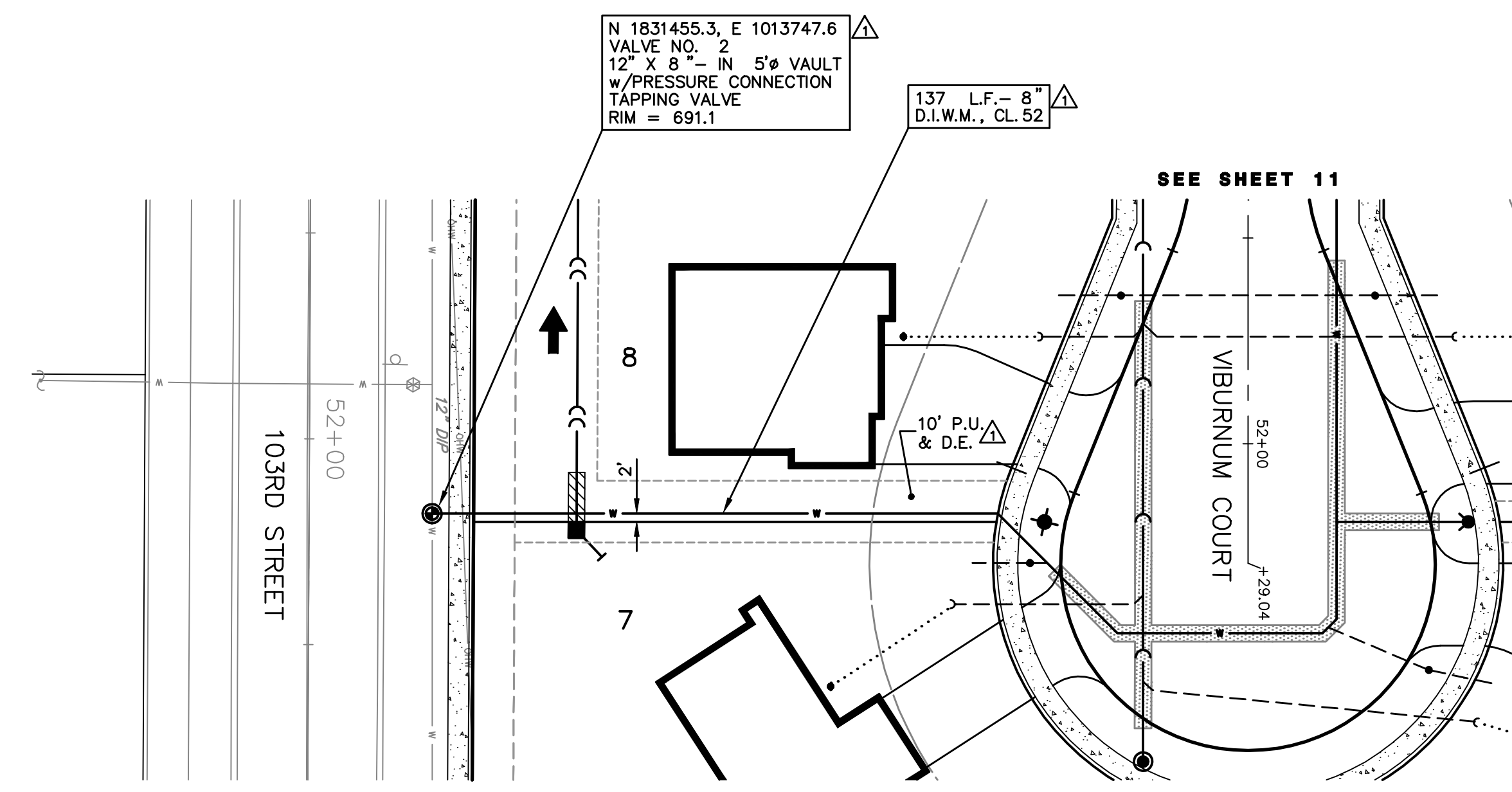
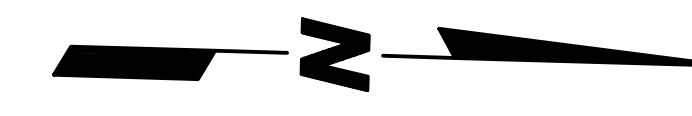
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E-Mail: info@cemcon.com Website: www.cemcon.com

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2	04-13-22/KMS	REVISED PER CITY COMMENTS DATED 04-04-22 2(REQUIRED SUBMITTAL)			

VIBURNUM COURT
ASHWOOD HEIGHTS - PHASE 2

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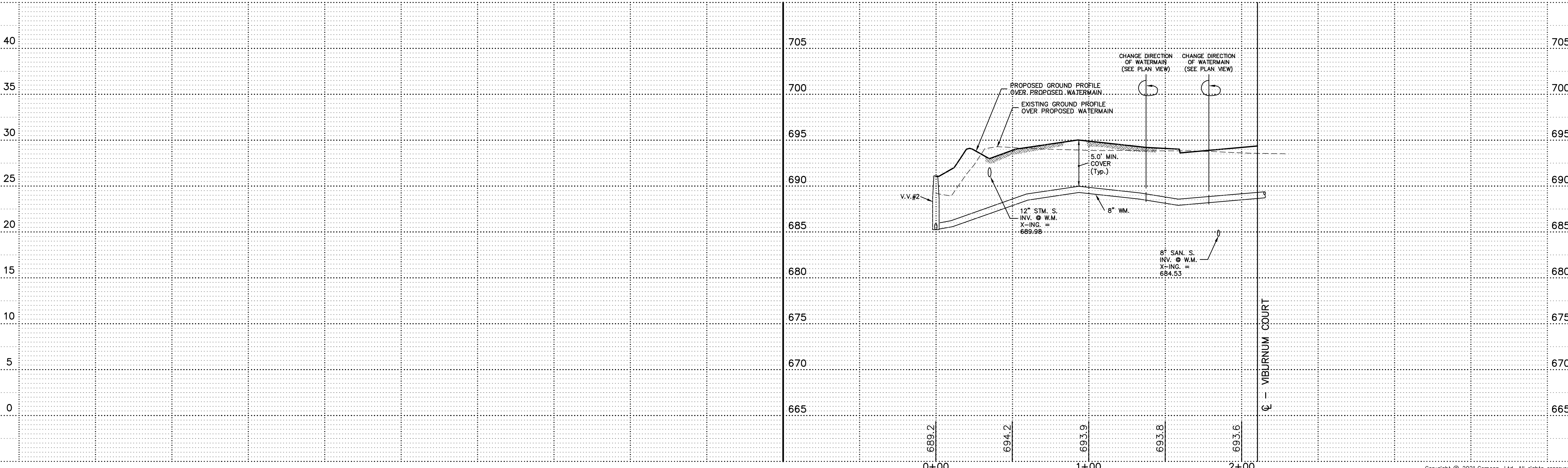
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SIDEYARD WATERMAIN

- INDICATES TYPE M-3.12 CURB & GUTTER
- ||||| INDICATES TYPE M-3.12 CURB & GUTTER w/ REVERSE PITCH GUTTER FLAG
- INDICATES DEPRESSED CURB
- ▨ INDICATES WATER MAIN PROTECTION
- ▨ INDICATES DETECTABLE WARNING STRIP
- ▨ INDICATES TRENCH BACKFILL
- RS INDICATES RISER REQUIRED
- OS INDICATES OVERHEAD SEWER REQUIRED
- ⊙ INDICATES CURB RETURN
- INDICATES 6" PVC SDR 26 SANITARY SERVICE @ MINIMUM 1.0% SLOPE
- INDICATES 1 1/2" TYPE K COPPER WATER SERVICE w/ B-BOX (SEE DETAIL ON OVERALL SANITARY SEWER AND WATERMAIN PLAN)

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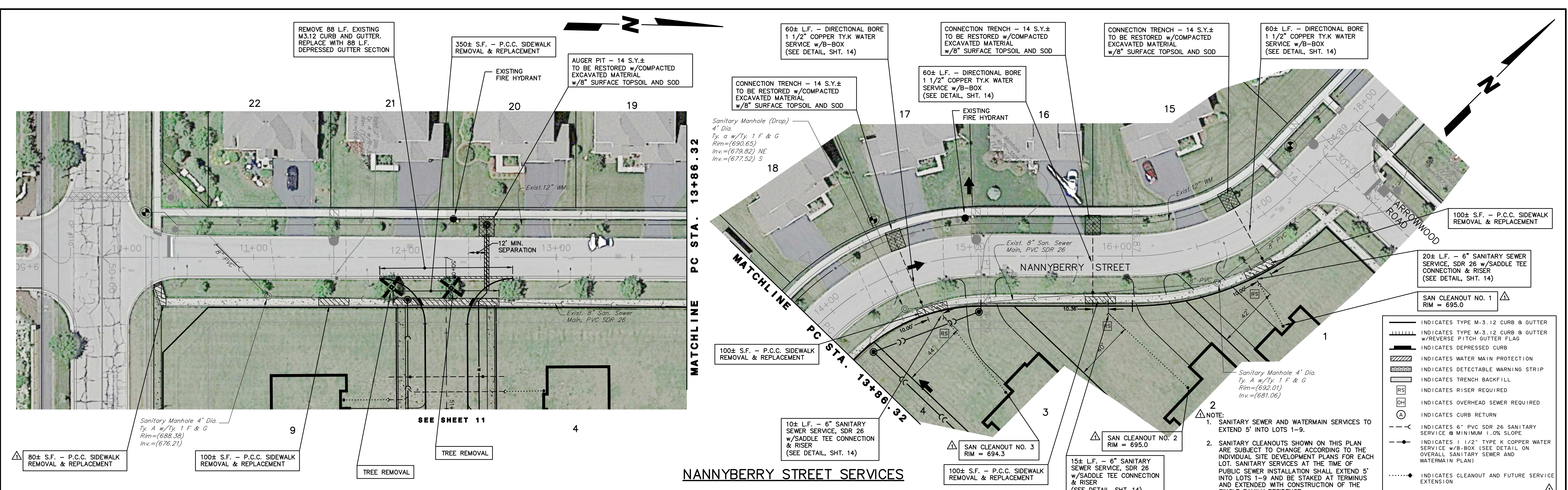
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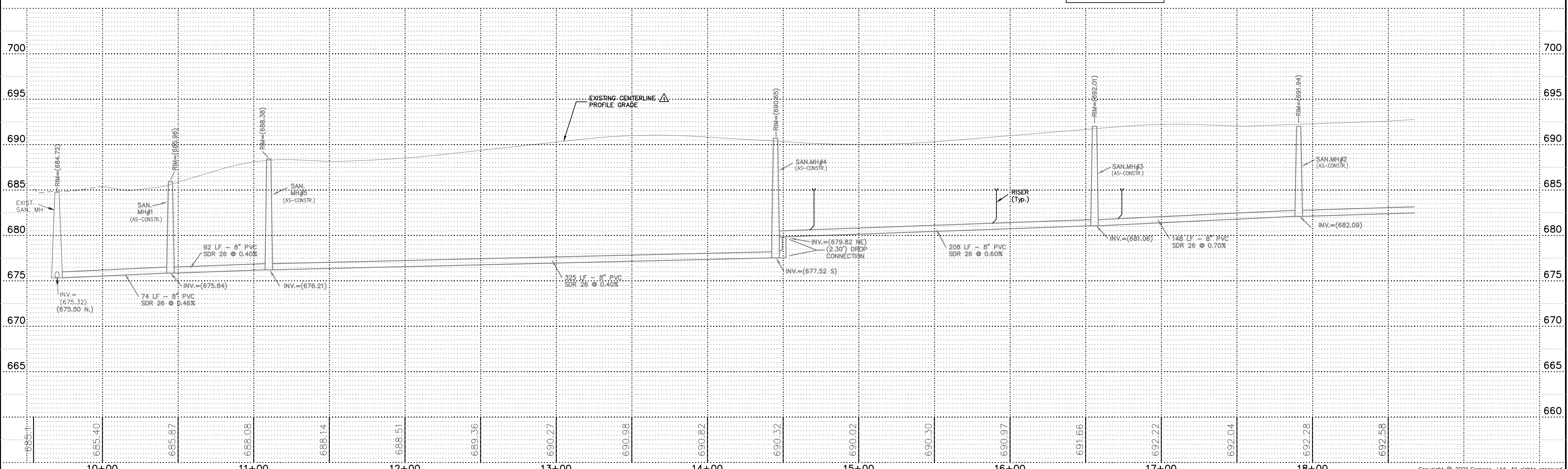
SIDEYARD WATERMAIN
ASHWOOD HEIGHTS - PHASE 2

FILE NAME: OVRPP	DSGN. BY: RWB	JOB NO.: 904.408	FLD. BK./PG.: D39/45-53	SHEET NO.
DIR: 904408	DRN. BY: LAL	DATE: 01-12-22	SCALE: 1" = 30'H, 5'V	12 of 15

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NANNYBERRY STREET SERVICES



- INDICATES TYPE M-3.12 CURB & GUTTER
- INDICATES TYPE M-3.12 CURB & GUTTER w/REVERSE PITCH GUTTER FLAG
- INDICATES DEPRESSED CURB
- INDICATES WATER MAIN PROTECTION
- INDICATES DETECTABLE WARNING STRIP
- INDICATES TRENCH BACKFILL
- INDICATES RISER REQUIRED
- INDICATES OVERHEAD SEWER REQUIRED
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- INDICATES CLEANOUT AND FUTURE SERVICE EXTENSION

NOTE:
 1. SANITARY SEWER AND WATERMAIN SERVICES TO EXTEND 5' INTO LOTS 1-9.
 2. SANITARY CLEANOUTS SHOWN ON THIS PLAN ARE SUBJECT TO CHANGE ACCORDING TO THE INDIVIDUAL SITE DEVELOPMENT PLANS FOR EACH LOT. SANITARY SERVICES AT THE TIME OF PUBLIC SEWER INSTALLATION SHALL EXTEND 5' INTO LOTS 1-9 AND BE STAKED AT TERMINUS AND EXTENDED WITH CONSTRUCTION OF THE SINGLE FAMILY RESIDENCE.

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NANNYBERRY STREET SERVICES
ASHWOOD HEIGHTS - PHASE 2

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DIR: 904408	DRN. BY: LAL	DATE: 01-12-22	SCALE: 1" = 30'H, 5'V	13 of 15

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City of Naperville STANDARD DETAIL
SANITARY SEWER MANHOLE
 SANITARY 1
 390.01

City of Naperville STANDARD DETAIL
SANITARY MANHOLE - FRAME & COVER
 SANITARY 6
 390.06

City of Naperville STANDARD DETAIL
TRENCH SECTION FOR PVC PIPE
 SANITARY 10
 390.10

City of Naperville STANDARD DETAIL
RISE FOR SERVICE LATERAL
 SANITARY 20
 390.20

City of Naperville STANDARD DETAIL
SANITARY SEWER SERVICE CONNECTION
 SANITARY 21
 390.21

City of Naperville STANDARD DETAIL
SANITARY SEWER PIPE INSULATION
 SANITARY 22
 390.22

City of Naperville STANDARD DETAIL
SANITARY SEWER CLEANOUT
 SAN 23
 390.23

City of Naperville STANDARD DETAIL
VALVE VAULT WITH CAST DUCTILE IRON SLEEVE PRESSURE TAP
 WATER 2
 490.02

City of Naperville STANDARD DETAIL
VALVE VAULT - FRAME & COVER
 WATER 4
 490.04

City of Naperville STANDARD DETAIL
HYDRANT
 WATER 6
 490.06

City of Naperville STANDARD DETAIL
WATER MAIN TRENCH SECTION
 WATER 10
 490.10

City of Naperville STANDARD DETAIL
THRUST BLOCK
 WATER 11
 490.11

City of Naperville STANDARD DETAIL
PIPE INSULATION
 WATER 12
 490.12

WATER AND SEWER SEPARATION REQUIREMENTS (VERTICAL SEPARATION)

City of Naperville STANDARD DETAIL
LOWERING/ADJUSTING WATER MAIN
 WATER 13
 490.13

City of Naperville STANDARD DETAIL
WATER MAIN PROTECTION FROM EXISTING STORM SEWER PIPE
 WATER 14
 490.14

City of Naperville STANDARD DETAIL
POLYETHYLENE ENCASEMENT
 WATER 15
 490.15

City of Naperville STANDARD DETAIL
WATER MAIN CASING PIPE
 WATER 16
 490.16

City of Naperville STANDARD DETAIL
SERVICE TAP AND CONNECTION
 WATER 20
 490.20

WATER AND SEWER SEPARATION REQUIREMENTS (HORIZONTAL SEPARATION)

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REVISIONS		REVISIONS			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION

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SANITARY SEWER AND WATERMAIN CONSTRUCTION DETAILS
ASHWOOD HEIGHTS - PHASE 2

FILE NAME: DETAILS	DSGN. BY: RWB	JOB NO.: 904.408	F.L.D. BK./PG.: D39/45-53	SHEET NO.
DIR: 904408	DRN. BY: LAL	DATE: 01-12-22	SCALE: 1" = N.T.S.	14 of 15

PLOT FILE CREATED: 3/22/2022 2:29 PM BY: JEFF CEBULA DRAWING PATH: P:\044408\DWG\ENGR\DRAWINGS\FINAL DRAFTING DETAILS.DWG

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

CASTING AS SPECIFIED

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

ALTERNATE FLAT SLAB TOP (SEE STANDARD DETAIL 200.03)

30° ECCENTRIC CONE SECTION (SEE NOTE)

48" DIA. POLYURETHANE CONCRETE FILLET

PRECAST REINFORCED CONCRETE BOTTOM WITH INTEGRAL SIDEWALL

SELECT GRANULAR MATERIAL, CA-11

6" (MIN.) BEDDING

PRECAST REINFORCED CONCRETE 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
REVIS: 06/12/09

STORM MANHOLE - TYPE A
SHEET 1 OF 1

290.01

CASTING AS SPECIFIED

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

ALTERNATE FLAT SLAB TOP (SEE STANDARD DETAIL 200.03)

30° ECCENTRIC CONE SECTION (SEE NOTE)

48" DIA. POLYURETHANE CONCRETE FILLET

PRECAST REINFORCED CONCRETE BOTTOM WITH INTEGRAL SIDEWALL

SELECT GRANULAR MATERIAL, CA-11

6" MIN. BEDDING

PRECAST REINFORCED CONCRETE 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
REVIS: 06/12/09

CATCH BASIN - TYPE A
SHEET 1 OF 1

290.02

CASTING AS SPECIFIED

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

ALTERNATE FLAT SLAB TOP (SEE STANDARD DETAIL 200.03)

30° ECCENTRIC CONE SECTION (SEE NOTE)

48" DIA. POLYURETHANE CONCRETE FILLET

PRECAST REINFORCED CONCRETE BOTTOM WITH INTEGRAL SIDEWALL

SELECT GRANULAR MATERIAL, CA-11

6" MIN. BEDDING

PRECAST REINFORCED CONCRETE 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
REVIS: 06/12/09

CATCH BASIN - TYPE C
SHEET 1 OF 1

290.04

CASTING AS SPECIFIED

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

ALTERNATE FLAT SLAB TOP (SEE STANDARD DETAIL 200.03)

30° ECCENTRIC CONE SECTION (SEE NOTE)

48" DIA. POLYURETHANE CONCRETE FILLET

PRECAST REINFORCED CONCRETE BOTTOM WITH INTEGRAL SIDEWALL

SELECT GRANULAR MATERIAL, CA-11

6" MIN. BEDDING

PRECAST REINFORCED CONCRETE 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
REVIS: 06/12/09

INLET - TYPE A
SHEET 1 OF 1

290.05

CASTING AS SPECIFIED

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

ALTERNATE FLAT SLAB TOP (SEE STANDARD DETAIL 200.03)

30° ECCENTRIC CONE SECTION (SEE NOTE)

48" DIA. POLYURETHANE CONCRETE FILLET

PRECAST REINFORCED CONCRETE BOTTOM WITH INTEGRAL SIDEWALL

SELECT GRANULAR MATERIAL, CA-11

6" MIN. BEDDING

PRECAST REINFORCED CONCRETE 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
REVIS: 06/12/09

CAST IRON STEPS
SHEET 1 OF 1

290.06

WELDED WIRE FABRIC

#4 BARS 30" LONG

#4 BAR LOOP BURN OFF AFTER INSTALLATION WHEN NECESSARY

PLUG AND SEAL WITH MASTIC AFTER INSTALLATION

LIFTING HOLES OR LIFTING LOOPS (AS REQUIRED FOR SLAB)

PLAN (REINFORCEMENT BARS)

SECTION A-A

SECTION B-B

D	T	REINFORCEMENT #	SPACING	BAR SIZE	LENGTH (INCHES)	BAR C	BAR C
1	1	#4	12"	#4	48"	12"	12"
2	2	#4	12"	#4	48"	12"	12"
3	3	#4	12"	#4	48"	12"	12"

NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN

City of Naperville
STANDARD DETAIL
REVIS: 06/12/09

FLAT SLAB TOP PRECAST REINFORCED CONCRETE
SHEET 1 OF 1

290.03

FINISHED GRADE

TRENCH WALL

BACKFILL WITH EXCAVATED MATERIAL

SEE NOTE

INITIALLY, BACKFILL AND COMPACT TRENCH WITH AGGREGATE MATERIAL (CA-6) TO THE SPRINGLINE OF THE PIPE

IF ENCOUNTERED, REMOVE UNSUITABLE MATERIAL AND REPLACE WITH AGGREGATE MATERIAL AS APPROVED BY THE CITY ENGINEER

4" MIN.

VARIABLE

NOTE:

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

City of Naperville
STANDARD DETAIL
REVIS: 05/12/03

STORM SEWER TRENCH SECTION IN NON-PAVED AREAS
SHEET 1 OF 1

290.21

SUBGRADE ELEVATION

TRENCH WALL

BACKFILL TRENCH TO SUBGRADE ELEVATION WITH AGGREGATE MATERIAL (CA-6)

INITIALLY, BACKFILL AND COMPACT TRENCH WITH AGGREGATE MATERIAL (CA-6) TO THE SPRINGLINE OF THE PIPE

IF ENCOUNTERED, REMOVE UNSUITABLE MATERIAL AND REPLACE WITH AGGREGATE MATERIAL AS APPROVED BY THE CITY ENGINEER

4" MIN.

VARIABLE

NOTE:

1. TRENCH BACKFILL MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 550.07 OF THE I.DOT 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
REVIS: 05/12/03

STORM SEWER TRENCH SECTION IN PAVED AREAS
SHEET 1 OF 1

290.20

3/4" PREFORMED EXPANSION STRIPS WITH (2) NO. 6 COATED SMOOTH POINT BARS OR ANCHOR BOLTS (TYP.) WITH GREASE CAPS (SEE STANDARD DETAIL 590.21)

SAW-CUT (TYP.)

ROADWAY

EXISTING SURFACE

EXISTING BASE

EXISTING DRAINAGE STRUCTURE

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

SECTION A-A

SECTION B-B

NOTE:

1. REMOVE & REPLACE CURB A MINIMUM OF 10' EITHER SIDE OF STRUCTURE OR TO NEAREST EXPANSION JOINT (WHICHEVER IS CLOSEST)

2. POUR CONCRETE FILLET BETWEEN CASTING AND ADJUSTING RINGS FOR LOCATIONS WHERE THE CASTING IS LARGER THAN THE ADJUSTING RING

City of Naperville
STANDARD DETAIL
REVIS: 06/12/09

CASTING ADJUSTMENTS FOR STRUCTURES WITHIN THE CURB LINE
SHEET 1 OF 1

290.16

CASTING

SAW-CUT (TYP.)

EXIST. SURFACE

BRANDER

EXIST. PAVEMENT

12" MIN. (TYP.)

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

DRAINAGE STRUCTURE

SECTION A-A

SECTION B-B

NOTE:

1. ADJUSTMENTS SHALL BE PROTECTED BY A BARRICADE WITH TWO (2) LIGHTS, OR A 1" THICK STEEL PLATE SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR AT LOCATIONS WHERE ADJUSTMENTS ARE LOCATED IN TRAVEL LINES UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND SHALL HAVE STAIRWAYS RAMP AS REQUIRED.

2. WHEN ADJUSTMENTS RAISE A CASTING ABOVE THE ELEVATION OF THE EXISTING PAVEMENT SURFACE, A BITUMINOUS MIXTURE SHALL BE PLACED AROUND THE CASTING TRANSITIONED A DISTANCE OF 1' HORIZONTAL FOR EACH INCH OF VERTICAL DISTANCE ABOVE THE EXISTING PAVEMENT. SUCH RAMPERS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE COMPLETION OF THE SURFACE RESTORATION.

City of Naperville
STANDARD DETAIL
REVIS: 06/12/09

CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS
SHEET 1 OF 1

290.15

PLAN

SECTION A-A

SECTION B-B

NOTE:

1. FRAME AND GRATE SHALL BE NEENAH R-3001-P, EAST JORDAN 7205, 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
REVIS: 06/12/09

FRAME & GRATE FOR M-3-12 CURB & GUTTER
SHEET 1 OF 1

290.13

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

SECTION B-B CAST OPEN, LEWT. 25 lbs.

SECTION C-C DUCTILE IRON LID, WT. 125 lbs.

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

NOTE:

1. FRAME AND GRATE LID SHALL BE NEENAH R-3002 FOR OPEN GRATES, R-1772 FOR CLOSED LIDS, EAST JORDAN 1022-3 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
REVIS: 05/12/03

FRAME & LID OR GRATE
SHEET 1 OF 1

290.10

SECTION A-A

NOTE:

1. BEEHIVE GRATE SHALL BE NEENAH R-3408, 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
REVIS: 06/12/09

BEEHIVE GRATE
SHEET 1 OF 1

290.14

SUMP PUMP DISCHARGE PIPE

PVC ELBOW (TYP.)

4" MIN. AIR GAP

4"-6" TYP.

MIN. SLOPE 0.5%

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

City of Naperville
STANDARD DETAIL
REVIS: 01/01/03

SUMP PUMP CONNECTION
SHEET 1 OF 1

290.30

Top of masonry

ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC

ALTERNATE BOTTOM SLAB

DATE	REVISIONS
1.1.11	Revised per: in state.
1.1.11	Added note: see to page.
1.1.09	Revised general notes.
1.1.08	Revised notes to English (metric).

INLET - TYPE B

STANDARD 602306-03

GENERAL NOTES:

Bottom slab shall be reinforced with a minimum of 6 #4 bars with 12" spacing in both directions.

Reinforcement shall be placed in the center of the slab.

Reinforcement shall be placed in the center of the slab.

See Standard 602306 for optional Precast Reinforced Concrete Flat Slab Top.

All dimensions are in inches (millimeters) unless otherwise stated.

City of Naperville
STANDARD DETAIL
REVIS: 06/12/09

INLET - TYPE B
SHEET 1 OF 1

290.15

MANHOLE FRAME, SOLID LID

HEAVY DUTY
TOTAL WEIGHT 230 POUNDS
F APPLICATION REQUIRES FLANGE AT TOP FOR SLAB-TYPE INSTALLATION

23-7/8"

22-1/4"

24-1/8"

30"

8" PVC PIPE

CLEANOUT STRUCTURE

6" CA-6 INCIDENTAL TO COST OF CONSTRUCTION

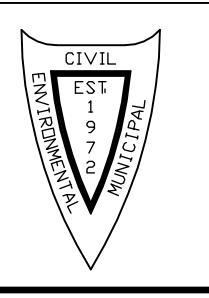
UNDISTURBED EARTH

City of Naperville
STANDARD DETAIL
REVIS: 06/12/09

MANHOLE FRAME, SOLID LID
SHEET 1 OF 1

290.14

PREPARED FOR:
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DRAINAGE STRUCTURE DETAILS				
ASHWOOD HEIGHTS - PHASE 2				
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