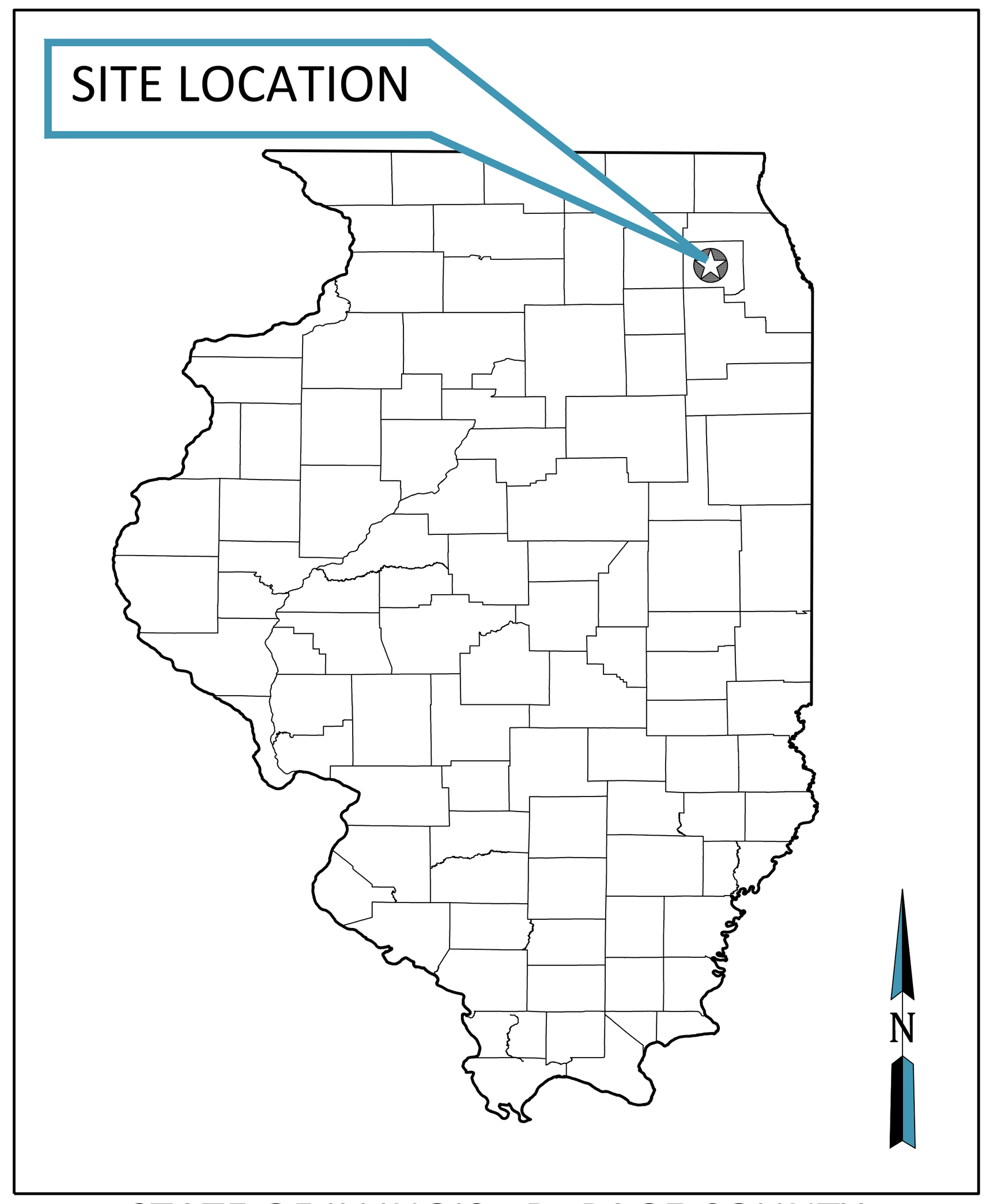
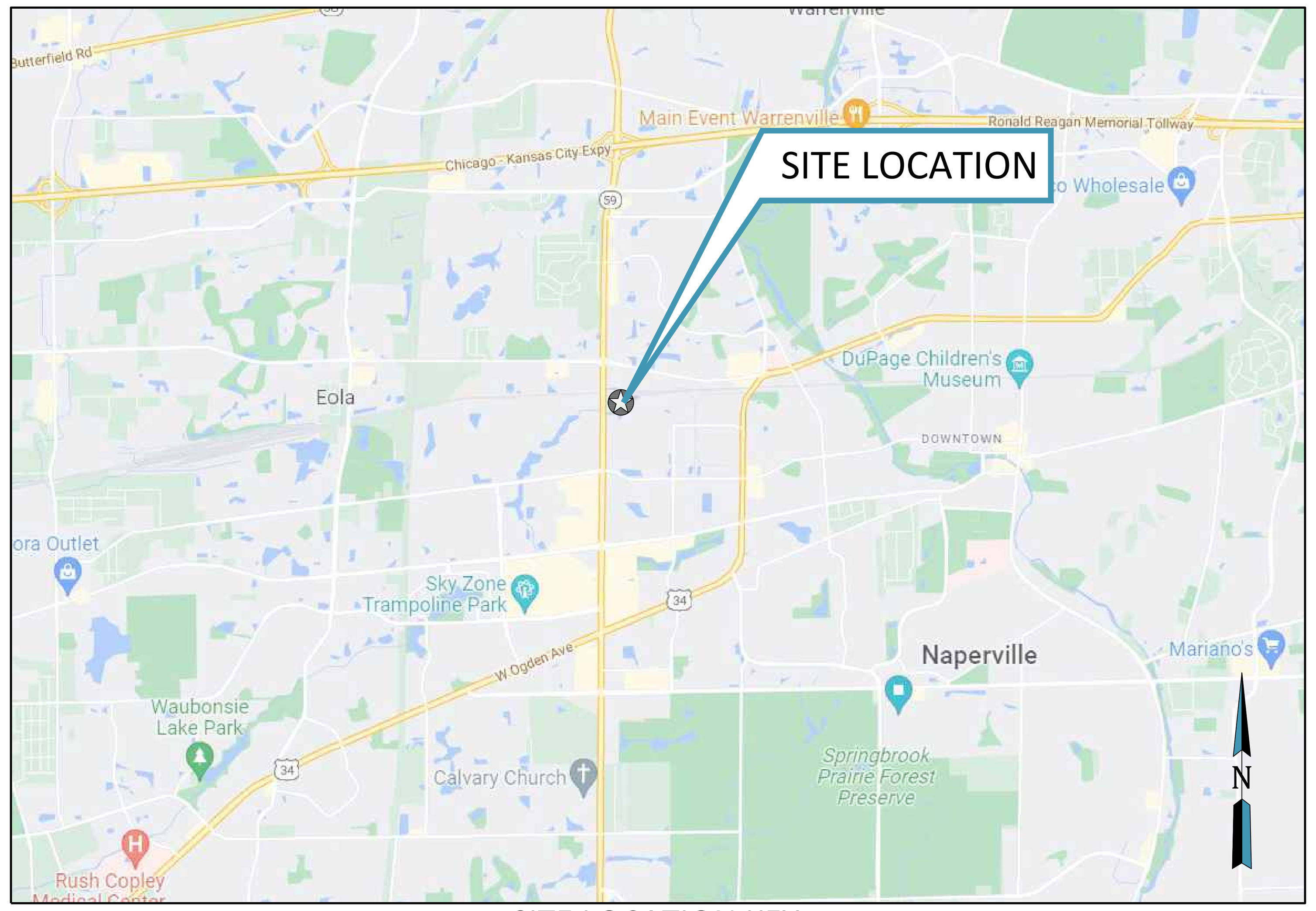
FREDDY'S - NAPERVILLE

CIVIL ENGINEERING PLANS
1967 GLACIER PARK AVENUE
NAPERVILLE, ILLINOIS 60540

MUNICIPAL/AGENCY APPROVAL STAMP



STATE OF ILLINOIS - DuPAGE COUNTY
NOT TO SCALE



SITE LOCATION KEY
NOT TO SCALE

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L-1	LANDSCAPE PLAN

DESIGN TEAM CONTACT INFORMATION

PROJECT ARCHITECT
BAKER DESIGN GROUP, PA
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WICHITA, KS 67214
(316) 267-7142

CIVIL ENGINEER
WEAVER CONSULTANTS GROUP
1316 BOND STREET, SUITE 108
NAPERVILLE, ILLINOIS 60563
(630) 717-4848
DESIGN FIRM#: 184004465

LAND SURVEYOR
WEAVER CONSULTANTS GROUP
1316 BOND STREET, SUITE 108
NAPERVILLE, ILLINOIS 60563
(630) 717-4848

LANDSCAPE ARCHITECT
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1316 BOND STREET, SUITE 108
NAPERVILLE, ILLINOIS 60563
(630) 717-4848

CITY & UTILITY CONTACT INFORMATION

CITY OF NAPERVILLE
400 SOUTH EAGLE STREET
NAPERVILLE. IL 60540
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SURVEY INFORMATION:

ALTA/NSPS LAND TITLE SURVEY
SURVEY DATE: 03/24/2022
SURVEY NUMBER: 5477-300-09

DATUM:
NAVD 88

REFERENCE BENCHMARK:
CITY OF NAPERVILLE - STATION NO. 16 BERNSTEN 3D TOP SECURITY MONUMENT. CONSISTING OF A 9/16" DIA. STAINLESS STEEL DATUM POINT ON THREADED 9/16" X 4' LONG ROD TOTALING (8') IN LENGTH WITH GREASED TOP SECURITY SLEEVE ENCLOSED IN SAND AND 6" PVC PIPE WITH BMAC 6 ALUMINUM ACCESS COVER. CHISELED "+" IN LIGHT POLE BASE 74.4 FEET NORTHWEST OF MONUMENT. CHISELED "+" 88.4 FEET NORTHEAST OF MONUMENT. NAIL WITH TAG IN POWER POLE 100.6 FEET OF MONUMENT
ELEVATION: 702.56

BENCHMARK #1:
CUT CROSS IN CONCRETE CURB ISLAND APPROXIMATELY 17.7 FEET SOUTHEAST OF THE SOUTHWEST CORNER OF THE SUBJECT PROPERTY AND 72 FEET SOUTHWEST OF THE SOUTHEAST CORNER OF THE SUBJECT PROPERTY.
ELEVATION: 702.96

BENCHMARK #2:
CUT CROSS ON TOP OF CURB AND GUTTER APPROXIMATELY 311 FEET SOUTHEAST OF THE SOUTHEAST CORNER OF THE SUBJECT PROPERTY AND 345 FEET SOUTHEAST OF THE NORTHEAST CORNER OF THE SUBJECT PROPERTY.
ELEVATION 704.10

NOTE: CONTRACTOR(S) TO VERIFY THEY HAVE THE CURRENT PLAN SET PRIOR TO CONSTRUCTION.

Call 811 or Click Before you Dig.
It's a Free Service

CIVIL ENGINEER'S CERTIFICATE

STATE OF ILLINOIS)
) SS
COUNTY OF DUPAGE)

I, WILLIAM H. PERRY, A LICENSED PROFESSIONAL ENGINEER HEREBY CERTIFY THAT THESE CIVIL ENGINEERING PLANS, AS LISTED IN THE INDEX, THAT ARE PREFIXED WITH LETTER "C". HAVE BEEN PREPARED BY WEAVER CONSULTANTS GROUP UNDER MY PERSONAL DIRECTION.

WILLIAM H. PERRY, PE

WILLIAM H. PERRY 062-055801 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

ILLINOIS LICENSED PROFESSIONAL ENGINEER
NO. 62-055801
LICENSE EXPIRES:
NOVEMBER 30, 2023

FREDDY'S - NAPERVILLE
1967 GLACIER PARK AVENUE
NAPERVILLE, IL 60540
COVER SHEET

NO.	DATE	REVISION DESCRIPTION	BY
1	10/31/2022	PER CITY OF NAPERVILLE COMMENTS	DG
2	12/19/2022	PER CITY OF NAPERVILLE COMMENTS	DG
3	01/02/2023	ADDRESS CHANGE	DG
4	01/30/2023	PER CLIENT REVIEW	DG

DESIGNED BY: DCG
REVIEWED BY: BP
DATE: 09/01/2022
PRJ#: 5477-300-32-01

Weaver Consultants Group

OFFICE LOCATION:
WEAVER CONSULTANTS GROUP
1316 BOND STREET, SUITE 108
NAPERVILLE, ILLINOIS 60563
(630) 717-4848
wcgrp.com

SHEET #: C-1

F:\PROJECTS\5477 - Henzlik Real Estate\300 - Freddy's Naperville\32\DWG\5477-300-32.dwg;WCGv19b5;dgarczek;January 31, 2023

SPECIFICATIONS - GENERAL

1. **STANDARDS AND SPECIFICATIONS:** ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION (INCLUDING BUT NOT LIMITED TO THE STATE AND MUNICIPALITY) SHALL GOVERN THIS WORK.
2. **ENGINEER OF RECORD:** THE ENGINEER OF RECORD (ENGINEER) IS WEAVER CONSULTANTS GROUP NORTH CENTRAL, LLC (WEAVER). WEAVER'S REPRESENTATIVES MAY OBSERVE THE CONSTRUCTION AND COMMUNICATE WITH THE CONTRACTOR.
3. **EXAMINATION OF THE SITE:** PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE.
4. **CURRENT SET OF PLANS:** THE CONTRACTOR SHALL VERIFY THAT THEY ARE WORKING WITH THE CURRENT SET OF PLANS AND SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS AT THE JOB SITE AT ALL TIMES. THE CONTRACTOR SHALL ONLY BUILD FROM THE SET OF PLANS LABELED "ISSUED FOR CONSTRUCTION".
5. **INDEMNIFICATION:** THE CONTRACTOR SHALL INDEMNIFY THE ENGINEER OF RECORD, THE ARCHITECT OF RECORD, THE OWNER AND THE OWNER'S AGENTS, THE MUNICIPALITY AND ALL OTHER AGENCIES FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
6. **TOPOGRAPHIC SURVEY:** TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THE PLANS IS PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE INFORMATION SHOWN IS CORRECT AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OR ANY ERRORS, DISCREPANCIES OR OMISSIONS TO THE SURVEY INFORMATION PROVIDED. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL SURVEY SHALL BE BORNE BY THE CONTRACTOR.
7. **UNDERGROUND UTILITIES:** THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL ALSO OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES, DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR REMOVING OR ADJUSTING THEM.
8. **SUBSURFACE INVESTIGATION:** SUBSURFACE EXPLORATION TO ASCERTAIN THE NATURE OF SOILS, INCLUDING THE AMOUNT OF ROCK, IF ANY, IS THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH SUBSURFACE INVESTIGATIONS AS DEEMED NECESSARY TO DETERMINE THE NATURE OF THE MATERIAL TO BE ENCOUNTERED. SOME SUBSURFACE EXPLORATION HAS BEEN PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD ON THE PROJECT AND IS PROVIDED FOR INFORMATIONAL PURPOSES. THE DEVELOPER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY, TRUE LOCATION AND EXTENT OF THE SOILS INFORMATION THAT HAS BEEN PREPARED BY OTHERS. THEY FURTHER DISCLAIM RESPONSIBILITY FOR INTERPRETATION OF THAT DATA BY THE CONTRACTOR, AS IN PROJECTING SOIL BEARING VALUES, ROCK PROFILES, SOILS STABILITY AND THE PRESENCE, LEVEL AND EXTENT OF UNDERGROUND WATER.
9. **PERMITS AND LICENSES:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS AND LICENSES AS REQUIRED BY STATE AND LOCAL AGENCIES. WHENEVER THE WORK REQUIRES THE OBTAINING OF PERMITS FROM THE GOVERNING AUTHORITIES, THE CONTRACTOR SHALL FURNISH DUPLICATE COPIES OF SUCH PERMITS TO THE DEVELOPER AND ENGINEER BEFORE THE WORK COVERED THEREBY IS STARTED. NO WORK WILL BE ALLOWED TO PROCEED BEFORE SUCH PERMITS ARE OBTAINED.
10. **BONDS:** PERFORMANCE, PAYMENT AND MAINTENANCE BONDS MAY BE REQUIRED FROM THE CONTRACTOR FOR ALL WORK CONSIDERED TO BE "PUBLIC" IMPROVEMENTS. BONDS SHALL BE IN THE FORM AND IN THE AMOUNTS AS REQUIRED BY THE GOVERNING AGENCIES.
11. **SAFETY:** WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION ARE REQUIRED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF EMPLOYEES ON THE PROJECT AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE, AND MUNICIPAL SAFETY LAWS AND BUILDING CODES. CONTRACTOR SHALL ERECT AND PROPERLY MAINTAIN, AT ALL TIMES, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR PROTECTION OF WORKMEN AND THE PUBLIC AND SHALL POST DANGER SIGNS WARNING AGAINST KNOWN OR UNUSUAL HAZARDS.
12. **NOTIFICATIONS:** A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT, THE ENGINEER OF RECORD AND THE LOCAL UNDERGROUND LOCATE COMPANY FOR STAKING THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
13. **INSPECTIONS:** INSPECTION OF THE PROPOSED CONSTRUCTION WILL BE PROVIDED BY THE GOVERNING AUTHORITIES AND/OR THE DEVELOPER OR ASSIGNED AGENTS. THE CONTRACTOR SHALL PROVIDE ASSISTANCE BY PROVIDING EXCAVATION, TRENCH SAFETY, OR OTHER WORK NECESSARY TO FACILITATE INSPECTION ACTIVITIES, AND SHALL GIVE SUFFICIENT NOTICE WELL IN ADVANCE OF PENDING CONSTRUCTION ACTIVITIES TO THE GOVERNING AUTHORITIES AND/OR DEVELOPER FOR SCHEDULING OF INSPECTION SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETERMINATION OF ANY REQUIRED INSPECTIONS, THE SCHEDULING AND CONTROL OF INSPECTIONS AND THE ACCEPTANCE OF ALL PUBLIC AND/OR PRIVATE UTILITIES BY THE APPROPRIATE GOVERNING AUTHORITY PRIOR TO TRENCH BACKFILLING.
14. **SHOP DRAWINGS:** PROPOSED CONSTRUCTION MATERIALS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL IN ADVANCE OF MOBILIZATION. ANY DEVIATION FROM THE APPROVED CONSTRUCTION MATERIALS LIST MUST BE APPROVED BY THE ENGINEER IN WRITING.
15. **CONSTRUCTION DEBRIS:** IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM THE CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE END OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
16. **SITE DRAINAGE:** DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. ALL DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR OTHER METHODS ACCEPTABLE TO THE ENGINEER.
17. **DISPOSITION AND DISPOSAL OF EXCESS MATERIALS:** ALL MATERIALS TO BE REMOVED FROM THE SITE, INCLUDING, BUT NOT LIMITED TO EXCESS MATERIALS AND UNSUITABLE MATERIALS SUCH AS CONCRETE, ASPHALT, LARGE ROCKS, REFUSE AND OTHER DEBRIS, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT AT THE CONTRACTOR'S EXPENSE. DISPOSAL OF MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.
18. **CONSTRUCITON STAKING:** ALL SURVEYING REQUIRED FOR CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE DEVELOPER SHALL PROVIDE THE PROPERTY CORNERS AND TWO BENCHMARKS FOR USE AS HORIZONTAL AND VERTICAL DATUM. THE CONTRACTOR SHALL EMPLOY A REGISTERED PROFESSIONAL LAND SURVEYOR TO PERFORM ALL ADDITIONAL SURVEY, LAYOUT AND MEASUREMENT WORK NECESSARY FOR THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL VERIFY THE SITE BENCHMARKS' ELEVATION SHOWN ON THE PLANS AND REPORT ANY DISCREPANCIES TO THE OWNER AND ENGINEER PRIOR TO ANY CONSTRUCTION STAKING. ALL CONSTRUCTION TRADES SHALL COORDINATE THROUGH THE GENERAL CONTRACTOR USING THE SAME BENCHMARKS FOR VERTICAL CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REMOVAL, REPLACEMENT AND REDESIGN OF ANY IMPROVEMENTS CONSTRUCTED PRIOR TO CHECKING HORIZONTAL/VERTICAL CONTROL AND PLAN DIMENSIONS AND NOTIFICATION OF ANY DISCREPANCIES TO THE OWNER AND ENGINEER. ALL INSTRUMENTS ARE TO BE PROPERLY CALIBRATED PRIOR TO USE.
19. **PROPERTY CORNERS:** THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS AND BENCHMARKS, AND WHEN ANY SUCH MARKERS OR MONUMENTS ARE IN DANGER OF BEING DISTURBED, THEY SHALL BE PROPERLY REFERENCED AND IF DISTURBED SHALL BE RESET BY A REGISTERED PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
20. **RECORD DRAWINGS:** THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TO THE ENGINEER OF RECORD AND THE OWNER RECORD DRAWINGS, PREPARED BY A REGISTERED PROFESSIONAL LAND SURVEYOR, OF ALL SITE IMPROVEMENTS. THE RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF NAPERVILLE PRIOR TO OCCUPANCY. THESE RECORD DRAWINGS SHALL INCLUDE ALL DEVIATIONS TO THE DESIGN PLANS, ALL AS-CONSTRUCTED SPOT GRADES ON THE GRADING PLAN AND ALL AS-CONSTRUCTED GRADES INCLUDING RIMS, INVERTS AND PIPE SLOPES ON THE UTILITY PLAN. CONTRACTOR IS ALSO RESPONSIBLE TO MAKE ANY CORRECTIONS AS DETERMINED NECESSARY BY THE ENGINEER, OWNER AND/OR MUNICIPALITY AND UPDATE THE RECORD DRAWINGS ACCORDINGLY.
21. **SOIL STABILIZATION:** THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THE EROSION CONTROL SPECIFICATIONS. ALL SOIL SHALL BE STABILIZED PRIOR TO ISSUANCE OF FINAL APPROVAL. SEE LANDSCAPE PLAN FOR DETAILS.

SPECIFICATIONS - GRADING

1. **EROSION CONTROL MEASURES:** CONTRACTOR SHALL COMPLY WITH THE EROSION CONTROL PLAN INCLUDING, BUT NOT LIMITED TO, PERIMETER SILT FENCE AND INLET PROTECTION, PRIOR TO THE START OF DEMOLITION.
2. **TESTING:** ALL EARTHWORK OPERATIONS SHALL BE OBSERVED AND TESTED ON A CONTINUING BASIS BY THE GEOTECHNICAL ENGINEER FOR CONFORMANCE WITH THE REQUIREMENTS SET FORTH IN THE GEOTECHNICAL REPORT.
3. **UNDISTURBED AREAS:** PRIOR TO GRADING, BRUSH REMOVAL, OR SITE CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE DEVELOPER AND/OR ENGINEER AT THE SITE TO ASCERTAIN THE AREAS OF THE PROJECT SITE THAT ARE TO BE PROTECTED AND PRESERVED. REFER TO THE LANDSCAPE PLANS AND TREE PROTECTION PLANS FOR ALL CONSTRUCTION IN THE VICINITY OF EXISTING TREES.
4. **STRIPPING AND DEBRIS REMOVAL:** THE BUILDING PAD SITES, AREAS TO BE PAVED, AND ALL AREAS THAT ARE TO RECEIVE FILL MATERIAL SHALL BE STRIPPED OF VEGETATION, TREES, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIAL. STRIPPED TOPSOIL SHALL BE STOCKPILED IN A LOCATION ON-SITE APPROVED BY THE DEVELOPER IF IT HAS BEEN DETERMINED THAT IT CAN BE RE-USED ON THE SITE. ALL TREES INCLUDING STUMPS AND ROOT SYSTEMS, VEGETATION, DEBRIS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OFF-SITE. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE. ALL COSTS ASSOCIATED WITH DISPOSAL OF MATERIAL SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
5. **PROOF ROLLING:** UPON COMPLETION OF STRIPPING OPERATIONS, AND PRIOR TO PLACEMENT OF ANY FILL MATERIALS, THE STRIPPED AREAS SHOULD BE OBSERVED TO DETERMINE IF ADDITIONAL EXCAVATION IS REQUIRED TO REMOVE WEAK OR OTHERWISE OBJECTIONABLE MATERIALS THAT WOULD ADVERSELY AFFECT THE FILL PLACEMENT. THE SUB-GRADE SHOULD BE FIRM AND ABLE TO SUPPORT CONSTRUCTION EQUIPMENT WITHOUT DISPLACEMENT. SOFT OR YIELDING SUB-GRADE SHOULD BE CORRECTED AND MADE STABLE BEFORE CONSTRUCTION PROCEEDS. PROOF ROLLING SHOULD BE PERFORMED USING A HEAVY PNEUMATIC TIRE ROLLER, LOADED DUMP TRUCK, OR SIMILAR PIECE OF EQUIPMENT WEIGHING 25 TONS. THE PROOF ROLLING OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE.
6. **CONTROLLED FILL:** ALL SOILS USED FOR CONTROLLED FILL SHOULD BE FREE OF ROOTS, VEGETATION, AND OTHER DELETERIOUS OR UNDESIRABLE MATTER. SOILS IMPORTED FROM OFF-SITE FOR USE AS FILL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHOULD BE PLACED IN LEVEL, UNIFORM LIFTS, WITH EACH LIFT COMPACTED TO THE MINIMUM DRY DENSITY WITHIN THE COMPACTION SOIL MOISTURE RANGES RECOMMENDED.
7. **SOIL COMPACTION:** UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL ENGINEER, WITHIN THE LIMITS OF PROPOSED GRADING, THE SOIL SHALL BE COMPACTED IN 6" MAXIMUM COMPACTED LIFTS OF SUB-GRADE, BACKFILL OR FILL MATERIAL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MODIFIED PROCTOR DRY DENSITY IN ACCORDANCE WITH ASTM D 1557.
8. **UNDER STRUCTURES AND PAVEMENTS:** 95% MODIFIED PROCTOR DRY DENSITY.
9. **UNDER PARKWAY OR UNPAVED AREAS:** 85% MODIFIED PROCTOR DRY DENSITY.
10. **PROPOSED GRADES:** THE PROPOSED CONTOURS INDICATED ON THE GRADING PLAN ARE FINISHED GRADES AND ARE SHOWN AT ONE-FOOT INTERVALS. SPOT ELEVATIONS SHOWN ARE FINAL GRADES AND ARE NOTED WITH A PREFIX AS IDENTIFIED IN THE LEGEND.
11. **TOLERANCE:** ALL SUB-GRADE SHALL BE GRADED TO WITHIN 0.1' +/- OF THE PROPOSED SUBGRADE ELEVATIONS. ALL FINAL GRADES IN LANDSCAPE AREAS SHALL BE WITHIN 0.1' +/- OF THE PROPOSED GRADES AND CONTOUR LINES. SEE PAVING SPECIFICATIONS FOR TOLERANCE ON PAVED SURFACES.
12. **SITE DRAINAGE:** DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. ALL DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR OTHER METHODS ACCEPTABLE TO THE ENGINEER.
13. **TOPSOIL:** SEE LANDSCAPE PLAN FOR DETAILS AND SPECIFICATIONS. AT A MINIMUM, ALL LANDSCAPE AREAS SHALL BE RESPREAD WITH 4" OF FRIABLE, WEED FREE, AND ROCK FREE TOPSOIL.

SPECIFICATIONS - UTILITIES

1. **STANDARDS AND SPECIFICATIONS:** THE CURRENT EDITIONS OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" SHALL GOVERN THE PERFORMANCE OF THE WORK. "TRENCHING" AND "OPEN EXCAVATION" OPERATIONS SHALL COMPLY WITH ALL CURRENT O.S.H.A. REGULATORY REQUIREMENTS.
2. **EXISTING UTILITIES:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATIONS AND PROTECTION OF ALL EXISTING UTILITIES SHOWN, ALL EXISTING UTILITIES NOT SHOWN, AND ALL PROPOSED UTILITIES ON THESE PLANS.
3. **TEMPORARY ROADWAY PATCHES:** IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN ANY TEMPORARY ROADWAY PATCHES THAT MAY OCCUR IN ORDER TO REOPEN A ROADWAY WHILE CONSTRUCTION ACTIVITY PROGRESSES, UNTIL SUCH TIME A PERMANENT PATCH CAN BE INSTALLED.
4. **TRENCH BACKFILL IN RIGHT OF WAYS:** CARE SHALL BE TAKEN IN PARKWAYS AREAS TO ASSURE COMPACTION ACCEPTABLE FOR THE FUTURE STABILITY OF DRIVEWAYS AND SIDEWALKS. WHILE SPECIAL BACKFILL MATERIAL IS NOT REQUIRED, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST POTENTIAL FUTURE SETTLEMENT OF BACKFILLED AREAS.
5. **TRENCH BACKFILL:** TRENCH BACKFILL MATERIAL (SEE DETAIL), SHALL BE PROVIDED UNDER AND WITHIN TWO FEET OF ALL PROPOSED AND FUTURE SIDEWALK, CURBS AND PAVEMENT.
6. **STRUCTURE BEDDING:** ALL STRUCTURE BEDDING SHALL BE COMPACTED CRUSHED STONE OR LIMESTONE MEETING CA-6 STANDARDS.
7. **WATER AND SEWER SEPARATION:** ALL SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. ALL SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS EITHER ABOVE OR BELOW THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF WATERMAIN QUALITY MATERIALS FOR 10' ON EITHER SIDE OF THE PIPE. WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND/OR VERTICAL SEPARATION AS STIPULATED ABOVE, THE SEWER SHALL BE CONSTRUCTED WITH WATER MAIN QUALITY MATERIALS.
8. **TRANSFORMER PAD:** THE CONTRACTOR IS RESPONSIBLE FOR THE ELECTRICAL TRANSFORMER CONCRETE PAD PER THE UTILITY COMPANY SPECIFICATIONS.
9. **SEWER LID LETTERING:** ALL SANITARY SEWER CASTINGS TO BE LETTERED "SANITARY SEWER". ALL STORM SEWER SOLID LID CASTINGS SHALL BE LETTERED "STORM SEWER". ALL WATER CASTINGS TO BE LETTERED "WATER". ALL FRAMES AND CASTINGS SHALL MEET ALL MUNICIPAL, STATE AND REGULATORY AGENCY REQUIREMENTS AND SPECIFICATIONS.
10. **FRAME AND GRATES:** UNLESS OTHERWISE SPECIFIED ON A DETAIL OR WITHIN MUNICIPAL SPECIFICATIONS, ALL FRAME AND GRATES TO BE:
    - 10.1. STORM STRUCTURES WITH OPEN LIDS IN STANDARD CURBS: EJIW 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, OR APPROVED EQUAL.
    - 10.2. STORM STRUCTURES WITH OPEN LIDS IN DEPRESSED CURBS: EJIW 5120 F&G, OR APPROVED EQUAL.
    - 10.3. STORM STRUCTURES WITH OPEN LIDS IN PAVEMENT: EJIW 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL.
    - 10.4. STORM STRUCTURES WITH OPEN LIDS IN LANDSCAPE AREAS: EJIW 6527N 2" BEEHIVE GRATE, OR APPROVED EQUAL.
    - 10.5. STORM STRUCTURES WITH CLOSED LIDS: EJIW 1022 FRAME WITH TYPE A SOLID COVER, OR APPROVED EQUAL.
    - 10.6. WATER VALVES: EJIW 1022-A, OR APPROVED EQUAL.
    - 10.7. SANITARY SEWER: EJIW 1022 WITH WATERTIGHT LID AND CONCEALED PICK HOLE, OR APPROVED EQUAL.
11. **WATER MAIN BURY DEPTH:** THE MINIMUM COVER FOR WATER MAIN SHALL BE 5.5' FROM THE FINISHED GRADE TO THE TOP OF THE MAIN.
12. **CONDUIT AND SLEEVES:** ALL UNDERGROUND CONDUIT AND SLEEVES ARE TO BE PLACED BEFORE SITE PAVING CONSTRUCTION COMMENCES AND SHALL BE BURIED A MINIMUM OF 24" BELOW THE BOTTOM OF THE PAVEMENT EXCEPT ELECTRICAL CONDUIT WHICH SHALL BE A MINIMUM OF 36" DEEP. ALL CONDUIT SHALL EXTEND TWO FEET BEYOND THE BACK OF CURB OR EDGE OF SIDEWALK. CONTRACTOR SHALL FURNISH ALL CONDUIT AS NECESSARY FOR UTILITY SERVICES. GAS, TELEPHONE AND ELECTRIC LOCATIONS MAY BE SHOWN ON THE PLAN AS A GUIDE. EXACT LOCATIONS SHALL BE DETERMINED BETWEEN THE CONTRACTOR AND UTILITY COMPANIES.
13. **WATER MAIN TESTING:** ALL WATER LINES, FITTINGS AND VALVES SHALL BE TESTED FOR PRESSURE AND LEAKAGE IN ACCORDANCE WITH AWWA C600 AND FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA C651. ALL VAULTS SHALL BE VACUUM TESTED TO PREVENT INFILTRATION. ALL TESTING, FLUSHING AND DISINFECTION SHALL BE WITNESSED AND APPROVED AND SHALL BE IN COMPLIANCE WITH ALL MUNICIPAL, STATE AND REGULATORY AGENCY GUIDELINES, REQUIREMENTS AND SPECIFICATIONS.
14. **SANITARY SEWER TESTING:** ALL SANITARY SEWER SHALL BE INSPECTED AND TESTED UPON COMPLETION OF INSTALLATION TO THE APPROVAL OF THE MUNICIPALITY AND/OR SANITARY DISTRICT AND IEPA. EXFILTRATION TESTING (LEAKAGE SHALL NOT EXCEED 240 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY) OR AIR TESTING PER ASTM F-1417 (PLASTIC) OR ASTM C-828 (CLAY) AS WELL AS AND DEFLECTION TESTING ARE REQUIRED FOR THE SEWER. LEAKAGE TESTING PER ASTM C-969 OR VACUUM TESTING PER ASTM C-1244 ARE REQUIRED FOR MANHOLES.
15. **SEDIMENT REMOVAL:** ALL DRAINAGE STRUCTURES, PIPES AND PAVEMENT SURFACES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO FINAL ACCEPTANCE AND AS MAY BE PERIODICALLY REQUIRED DURING THE COURSE OF CONSTRUCTION.
16. **FLARED END SECTION GRATES:** ALL FLARED END SECTIONS SHALL HAVE GRATES AND THE GRATES SHALL FOLLOW THE INTENT OF THE IDOT STANDARD.
17. **STEPS IN STRUCTURE:** ALL STRUCTURE STEPS SHALL BE GREY CAST IRON ASTM A-48 OR POLYPROPYLENE COATED STEEL REINFORCING RODS WITH LOAD AND PULLOUT RATINGS MEETING OSHA STANDARDS.

SPECIFICATIONS - LANDSCAPE

1. **STANDARDS AND SPECIFICATIONS:** THE CURRENT EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1 CURRENT ADDITION) PUBLISHED BY AMERICANHORT.
2. **SITE ANALYSIS:** THE LANDSCAPE CONTRACTOR SHALL VISIT THE SITE AND EVALUATE SITE CONDITIONS IN RELATION TO THE LANDSCAPE PLAN AND IT'S ASSOCIATED PLAN SET. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY ANY CONFLICTS.
3. **PROJECT COORDINATION:** THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR AND SUBCONTRACTORS AS NECESSARY.
4. **UTILITIES:** THE LANDSCAPE CONTRACTOR SHALL PROTECT ALL UTILITIES AND IRRIGATION SYSTEMS. ALL DAMAGES TO THE PROTECTED SYSTEMS SHALL BE REPLACED/ REPAIRED TO A NEW CONDITION. LABOR AND MATERIALS SHALL BE AT NO COST TO THE OWNER.
5. **LANDSCAPE PROTECTION:** THE LANDSCAPE CONTRACTOR SHALL PROTECT ALL EXISTING LANDSCAPE NOTED FOR PROTECTION AND ON-SITE LANDSCAPE ASSOCIATED WITH CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR PROPER SHIPPING, HANDLING, STORAGE, PLANTING, WATERING AND MAINTENANCE OF ALL PROPOSED LANDSCAPE MATERIALS INCLUDING THEFT FROM THE TIME OF ACQUISITION TILL TIME OF ACCEPTANCE.
6. **PLANT QUALITY:** ALL LANDSCAPE PLANTS SHALL BE TRUE TO THE BOTANICAL SPECIES AND VARIETY AND SIZE SPECIFIED ON THE PLANS. PLANTS SHALL BE MAINTAINED DURING GROWTH DEVELOPMENT TO UNIFORM, SYMMETRICAL AND WELL BRANCHED. PLANTS SHALL BE FREE OF ANY PESTS AND ANY OTHER PLANT GROWING FROM THE ROOT BALL. DAMAGED TRUNKS, BRANCHES AND INDICATIONS OF MISHANDLING ARE SUFFICIENT CAUSE FOR REJECTION. ALL SINGLE STEM TREES SHALL HAVE ONE DOMINANT CENTRAL LEADER.
7. **PRUNING:** THE LANDSCAPE CONTRACTOR SHALL ENSURE ALL BRANCH AND ROOT PRUNING IS DONE BY A CERTIFIED ARBORIST AND IN ACCORDANCE WITH ANSI A300.
8. **TREE ROOT FLARE AND ROOT BALL:** THE LANDSCAPE CONTRACTOR INSPECT ALL ROOT BALLS TO ENSURE NO ROOT GREATER THAN $\frac{1}{4}$" SHALL CIRCLE ROOT BALL MORE THAN $\frac{1}{3}$ OF ROOT BALL CIRCUMFERENCE. ROOT BALL SHALL BE FREE OF "J" ROOTS, KINKED, OR GIRDLING ROOTS OR POT BOUND. ROOT FLARE SHALL NOT BE PLACED BELOW FINISH GRADE, SEE DETAIL FOR ILLUSTRATION. IF TREE OR SHRUB HAS ROOT SYSTEM THAT NEEDS PRUNING FOR WHICH IT WILL NOT LIKELY, THEN IT SHALL BE REJECTED.
9. **PLANT CERTIFICATION:** THE LANDSCAPE CONTRACTOR SHALL PROVIDE PROOF ALL PLANTS ARE CERTIFIED FREE OF DISEASE AND INFESTATIONS IN ACCORDANCE OF STATE AND FEDERAL LAWS.
10. **TIMING:** CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR LANDSCAPE INSTALLATION TIMING. ANY PROPOSED LANDSCAPE THAT HAS UNIQUE CONSTRAINTS OR INSTALLATIONS CANNOT MEET CONSTRUCTION TIMING REQUIRES PRE APPROVAL BY LANDSCAPE ARCHITECT.
11. **SUBSTITUTIONS:** ALL PLANT SUBSTITUTIONS REQUIRE LANDSCAPE ARCHITECT AND MUNICIPAL APPROVAL (IF REQUIRED).
12. **WATERING:** THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL WATERING FROM TIME OF ACQUISITION TO 30 DAYS AFTER INSTALLATION. CONTRACTOR SHALL REPLACE ALL PLANTS THAT DIE OR SEVERELY DAMAGE AS A RESULT OF LACK OF OR EXCESSIVE WATERING. REPLACEMENT DUE TO PLANT CARE SHALL BE AT NO COST TO THE OWNER. WATERING SHALL BE INCLUDED IN CONTRACTOR'S BID.
13. **WARRANTEE:** THE LANDSCAPE CONTRACTOR SHALL ENSURE ALL LANDSCAPE PLANTS FOR 1 CALENDAR YEAR FROM THE TIME OF ACCEPTANCE. WARRANTEE SHALL INCLUDE ALL LABOR. REPLACEMENT PLANTS SHALL INCLUDE A SUBSEQUENT 1 CALENDAR YEAR. REPLACEMENTS SHALL BE INSTALLED WITHIN 2 WEEKS FROM NOTIFICATION UNLESS APPROVED BY LANDSCAPE ARCHITECT.
14. **CHEMICALS:** PESTICIDES , HERBICIDES, FUNGICIDES, ALGAECIDES, PRE-EMERGENT, ETC. SHALL BE STORED, HANDLED, APPLIED AND RE-APPLIED IN ACCORDANCE WITH ALL STATE AND FEDERAL REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS. ALL APPLICATIONS SHALL BE PERFORMED BY A LICENSED APPLICATOR IN THE STATE OF WORK. APPLICATORS SHALL WEAR ALL REQUIRED PPE (PERSONAL PROTECTION EQUIPMENT).
15. **FERTILIZERS AND AMENDMENTS:** ALL FERTILIZERS SHALL BE APPLIED AT THE RATE AS RECOMMENDED FOR THE APPLICABLE CONDITION AND RATES SHALL BE ADJUSTED ACCORDING TO SOIL CONDITIONS AND PLANT NEEDS.
16. **TOPSOIL:** TOPSOIL SHALL MEET ASTM D422, ASTM D2974, AND AASHTO T267. TOPSOIL SHALL BE PULVERIZED NATURAL FRIABLE SURFACE SOIL, FREE OF WEEDS, BRUSH, ROOTS, HARD CLAY, LITTER, CONCRETE, ASPHALT, AND STONE EXCEEDING 1" DIA. TOPSOIL SHOULD CONTAIN 15% ORGANIC CONTENT UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS FOR SOIL COMPOSITION AND DEPTHS FOR LANDSCAPE BEDS AND SPECIALIZED CONDITIONS SUCH AS BMP'S, DRY WELLS, PLANTERS, ETC. SOILS THAT HAVE BEEN CRUSHED AND HAVE NO STRUCTURE OR CAPILLARY SPACE DUE TO COMPACTION SHALL NOT BE USED FOR ANY PLANTING AREAS.
17. **TOPSOIL RE-SPREAD SHALL BE AT THE FOLLOWING UNLESS NOTED OTHERWISE:**
    - (1) 4"-6" FOR LAWN AREAS
    - (2) 8"-10" FOR LANDSCAPE AREAS
    - (3) 12" PLANTING AREAS ABOVE/ BEHIND RETAINING WALLS
    - (4) 18" FOR PARKING LOT LANDSCAPE ISLANDS
    - (5) 30" FOR PARKING LOT LANDSCAPE ISLANDS OR PLANTERS - CITY OF CHICAGO
18. **SOD:** SOD SHALL BE TRUE TO THE SPECIES AND VARIETY AS SPECIFIED ON THE PLANS. SOD SHALL BE #1 PREMIUM SOD AS NOTED IN THE GUIDELINE SPECIFICATIONS TO TURF GRASS SODDING BY AMERICAN SOD PRODUCERS ASSOCIATION. SOD SHALL BE INSTALLED AND WATERED WITHIN 24 HOURS OF HARVEST. SOD SHALL HAVE $\frac{3}{4}$" SOIL ROOTBED. SOD SHALL BE MACHINE CUT. AT THE TIME OF INSTALLATION, ALL CUTS SHALL BE MADE WITH A SHARP KNIFE/ RAZOR. SOD STAPLES SHALL BE USED ON ALL SLOPES GREATER THAN 5:1. SOD SHALL BE PLACED IN CONTACT WITH ALL ADJACENT SOD WITH NO AIR GAPS. JOINTS SHALL BE STAGGERED AND IN NO CASE SOD TO BE CUT INTO SLIVERS LESS THAN 12' WIDE NOR LESS THAN 2 SF IN AREA. UPON INSTALLATION, SOD SHALL BE WATERED THOROUGHLY TO BIND ROOTBED TO PREPARED SOILS. SOD STAKES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AT A MINIMUM. SOD THAT HAS TO BE REPLACED DUE TO SLUMPING SHALL BE AT NO COST TO OWNER.
19. **TURF GRASS SEEDING:** TURF GRASS SEED MIX SHALL BE TRUE TO THE SPECIES AND VARIETIES AS SPECIFIED. SEED SHALL BE AT THE RATE SPECIFIED TO 100% PLS RATES. SEED MIX SHALL BE INSTALLED AT THE DISCRETION OF THE CONTRACTOR BASED ON GROWING CONDITIONS AND WEATHER. TURF SEED GROWIN WILL BE ACCEPTED AS PERFORMANCE BASED. ALL SEEDED AREAS SHALL BE GROWN IN TO ENSURE NO BARE AREAS GREATER THAN 3 SQUARE INCHES AND NOT OCCURRING MORE THAN TWICE WITHIN A 12' RADIUS. ADDITIONAL OVERSEEDING TO ACHIEVE GROWIN PERFORMANCE SHALL BE AT NO COST TO THE OWNER. OWNER IS NOT RESPONSIBLE FOR AREAS DAMAGED BY CONSTRUCTION OR DEWATERING. SEED BLANKET SHALL BE INSTALLED FOR ALL SLOPES 5:1 OR STEEPER (MIN.) BLANKET STAKES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. BLANKETS THAT HAVE TO BE REINSTALLED SHALL BE AT NO COST TO OWNER.
20. **IRRIGATION:** CONTRACTOR SHALL PROTECT ANY EXISTING IRRIGATION ON-SITE. CONTRACTOR TO VERIFY WITH OWNER IF PROPOSED IRRIGATION SYSTEM SHALL BE ADDED ONTO EXISTING SYSTEM. ALL REPAIRS TO EXISTING SYSTEM NOT ANTICIPATED SHALL BE AT NO COST TO THE OWNER.
21. **INSPECTIONS:** IF THE MUNICIPALITY REQUIRES A LANDSCAPE CERTIFICATION BY THE LANDSCAPE ARCHITECT, CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT TO BE ON-SITE THE DAY OF COMPLETION. LANDSCAPE ARCHITECT SHALL BE GIVEN 3 BUSINESS DAY ADVANCE NOTICE (MIN.) TO VERIFY LANDSCAPE WILL BE INSTALLED PER PLAN. ANY OUTSTANDING ITEMS THAT ARE ADDRESSED AFTER DATE OF INSPECTION SHALL BE PHOTOGRAPHED BY THE LANDSCAPE CONTRACTOR AND COORDINATED FOR FINAL APPROVAL.

SPECIFICATIONS - CITY OF NAPERVILLE DPU-W GENERAL

1. NEW WATER MAIN VALVES, INCLUDING PRESSURE TAP VALVES, ADJACENT TO AN EXISTING WATER MAIN, AND EXISTING WATER MAIN VALVES SHALL ONLY BE OPERATED BY THE CITY OF NAPERVILLE, DEPARTMENT OF PUBLIC UTILITIES CEE/CM DIVISION PERSONNEL WITH 48-HOUR NOTICE (MONDAY-FRIDAY). CONTACT NAPERVILLE TED BUSINESS GROUP AT 630-420-6082 FOR SCHEDULING.
2. 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.
3. TREES SHALL BE INSTALLED A MINIMUM OF FIVE (5) FEET HORIZONTALLY FROM UNDERGROUND ELECTRICAL FEEDERS, SANITARY SEWERS, SANITARY SERVICES, WATER MAINS, AND WATER SERVICES. TREES SHALL BE INSTALLED A MINIMUM OF TEN (10) FEET HORIZONTALLY FROM UTILITY STRUCTURES AND APPURTENANCES, INCLUDING, 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.
4. 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".
5. EXISTING DUCTILE IRON SYSTEMS FOR RESTRAINING PUSH-ON PIPE BELLS SHALL BE MEGALUG SERIES 1100HD OR FORD SERIES 1390.
6. EXISTING DUCTILE IRON SYSTEMS REQUIRING RESTRAINT SHALL BE MEGALUG SERIES 1100SD (SPLIT MEGALUG) FOR MECHANICAL JOINTS.
7. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C105/A21.5-05.
8. A SET OF AS-BUILT RECORD DRAWING SHALL BE GIVEN TO THE CITY OF NAPERVILLE UPON COMPLETION OF IMPROVEMENTS SHOWING THE ELEVATION AND LOCATION (TIED TO TWO POINTS) OF ALL NEW AND EXISTING STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINESTOP 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.
9. ALL SANITARY SEWER PIPING SHALL BE PVC PIPE MEETING THE REQUIREMENTS OF ASTM D-2241 WITH JOINTS CONFORMING TO ASTM D-3139. ALL SANITARY SEWER FITTINGS SHALL BE PVC MEETING THE FOLLOWING REQUIREMENTS: 4" TO 12" SHALL BE INJECTION MOLDED FITTINGS MEETING ASTM D-2241. GREATER THAN 12" SHALL BE FABRICATED FITTINGS MEETING ASTM D-2241 OR C905. MINIMUM PRESSURE RATING SHALL BE 150 PSI.
10. THE VALVES LESS THAN 16" SHALL BE STANDARD PATTERN, GATE VALVES AND SHALL HAVE THE NAME OR MARK OF THE MANUFACTURER, SIZE AND WORKING PRESSURE PLAINLY CAST IN RAISED LETTERS ON THE VALVE BODY. VALVES MAY BE APPROVED FROM ONE OF THE FOLLOWING MANUFACTURERS: AMERICAN, CLOW, WATEROUS OR KENNEDY.
11. STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SEIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIR WITH FIELD APPLIED APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEEZ OR APPROVED EQUAL.
12. THE CONTRACTOR SHALL ROTATE AND/OR ADJUST ANY EXISTING AND/OR NEW HYDRANT TO THE SATISFACTION OF THE DEPARTMENT OF PUBLIC UTILITIES.
13. 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.
14. 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.
15. FIRE HYDRANT SHOULD BE BAGGED "NOT IN SERVICE" UNTIL ALL TESTING AND DISINFECTION HAS BEEN COMPLETED AND NEW WATER MAIN SECTION IS SERVICE.
16. 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.
17. ALL VALVE BOXES, VAULTS, HYDRANTS, AND MANHOLES SHALL NOT BE COVERED WITH CONSTRUCTION DEBRIS AND SHALL REMAIN ACCESSIBLE TO THE RESPECTIVE UTILITY COMPANY.
18. WATER SERVICE LINE SMALLER THAN 3" SHALL BE TYPE K COPPER. IF JOINTS ARE REQUIRED DUE TO LENGTH OF SERVICE, THEN ONLY COMPRESSION TYPE COUPLING SHALL BE PERMITTED. NO SOLDERED OR FLARED TYPE JOINTS ARE ALLOWED.
19. 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 PLACE 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:
    - a) 48-INCH DIAMETER - 60 SECONDS
    - b) 60-INCH DIAMETER - 75 SECONDS
    - c) 72-INCH DIAMETER - 90 SECONDS
    - d) 84-INCH DIAMETER - 105 SECONDS

    ANY MANHOLES THAT FAIL THE TEST SHALL BE SEALED AND RE-TESTED UNTIL ACCEPTABLE.
20. THE CONTRACTOR SHALL PROVIDE INTERNAL TELEVISED INSPECTION OF ALL INSTALLED SANITARY SEWER, LATERALS, MANHOLES AND CONNECTIONS TO THE PUBLIC SYSTEM. FOLLOWING COMPLETION OF TELEVISING WORK, THE CONTRACTOR SHALL SUBMIT VIDEO RECORDINGS ON DVD OR FLASH DRIVE ALONG WITH A COMPREHENSIVE TELEVISING REPORT WHICH WILL INDICATE THE LOCATION, FOOTAGES AND NATURE OF ANY DEFECTS. ALL DEFECTS SHALL BE REPAIRED TO THE SATISFACTION OF THE WATER/WASTEWATER UTILITY AND RE-TELEVISED.
21. 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.
22. 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.
23. ALL EXCAVATIONS MORE THAN 20 FEET DEEP MUST BE PROTECTED BY A SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
24. 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.
25. 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.
26. ALL BRASS COMPONENTS SHALL BE CERTIFIED TO BE LEAD FREE IN COMPLIANCE WITH NSF 61 AND NSF 372 AND IDENTIFIED WITH APPLICABLE MARKINGS.
27. **SANITARY FORCE MAIN** - FORCE MAN SHALL BE TESTED A MINIMUM OF 1 HOUR AT 1.5 THE SHUT OFF HEAD OF THE PUMP, 2.5 TIMES THE OPERATING PRESSURE, OR 20 PSI WHICHEVER IS GREATEST. ALLOWABLE LEAKAGE SHALL BE IN ACCORDANCE WITH SECTION 41-2.14C OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION.

SPECIFICATIONS - PAVEMENT

1. **STANDARDS AND SPECIFICATIONS:** THE CURRENT EDITION OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" SHALL GOVERN THIS WORK.
2. **PAVING CONDITIONS:** THE BITUMINOUS MATERIALS SHALL ONLY BE LAID ON A SURFACE WHICH IS DRY AND WHEN THE WEATHER CONDITIONS ARE SUITABLE. THE BITUMINOUS BINDER COURSE SHALL BE PLACED ONLY WHEN THE TEMPERATURE IN THE SHADE IS AT LEAST 45 DEGREES F, WHEN THE TEMPERATURE IN THE SHADE FOR THE PREVIOUS 24 HOURS IS AT LEAST 32 DEGREES F AND WHEN RISING TEMPERATURES ARE FORECAST. THE SURFACE COURSE SHALL BE PLACED ONLY WHEN THE TEMPERATURE IN THE SHADE IS AT LEAST 50 DEGREES F, WHEN THE TEMPERATURE IN THE SHADE FOR THE PREVIOUS 24 HOURS IS AT LEAST 40 DEGREES F, AND WHEN RISING TEMPERATURES ARE FORECAST. ANY PAVEMENT ACTIVITY SHOULD BE STOPPED IN THE EVENT OF RAIN, REGARDLESS OF TEMPERATURE.
3. **SUB-GRADE PREPARATIONS:** IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' SPECIFICATIONS AND THE GEOTECHNICAL REPORT, THE SUB-GRADE SHALL BE PROOF-ROLLED WITH HEAVY PNEUMATIC EQUIPMENT AND ANY SOFT OR PUMPING AREAS SHALL BE EXCAVATED TO FIRM SUB-GRADE AND BACKFILLED AND RE-COMPACTED. PAVEMENT SUB-GRADE SHALL NOT BE ALLOWED TO RETAIN WATER. WET MATERIAL SHALL BE REMOVED TO DRY.
4. **INSPECTIONS:** PAVEMENT SUB-BASE, BASE AND SURFACE MUST EACH BE INSPECTED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE NEXT PHASE OF WORK. PROOF ROLLING AND NUCLEAR DENSITY TESTING WILL BE UTILIZED IF REQUESTED BY OWNER.
5. **CONCRETE TESTING:** CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING ENGINEER TO VERIFY THE SLUMP, AIR ENTRAINMENT AND PROVIDE (3) CYLINDER SAMPLES FOR EACH DAYS POUR, OR 50 C.Y. OF CONCRETE WHICHEVER OCCURS MORE OFTEN. COPIES OF ALL TEST RESULTS SHALL BE FORWARDED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL.
6. **JOINT SEALANT:** JOINT SEALANT SHALL BE A GRAY ELASTOMERIC SILICONE OR POLYURETHANE SEALANT DESIGNED FOR CONCRETE EXPANSION AND CONTROL JOINTS CONFORMING TO ASTM C920, OR APPROVED EQUAL.
7. **CONCRETE SEALER:** "SCOFIELD" CEMENTONE CLEAR SEALER OR APPROVED EQUAL SHALL BE APPLIED TO ALL CONCRETE PER MANUFACTURER'S RECOMMENDATIONS.
8. **CURB TAPERS:** DUB DOWN (TAPER) CONCRETE CURBS TO ZERO HEIGHT AT SIDEWALKS. RAMP SIDEWALKS AS REQUIRED TO MEET EXISTING AND PROPOSED ADJACENT GRADES.
9. **CONSTRUCTION TOLERANCE:** PAVEMENT SUB-GRADE SHALL BE FINISHED TO O.10' +/- OF DESIGN SUB-GRADE ELEVATIONS. ALL PROPOSED CURB, SIDEWALK AND PAVEMENT SHALL BE CONSTRUCTED TO WITHIN 0.05' +/- OF THE DESIGN GRADES.
10. **STRUCTURE ADJUSTMENTS:** ALL EXISTING STRUCTURES (MANHOLES, CATCH BASINS, VALVE BOXES, ETC.) SHALL BE ADJUSTED TO MEET THE FINAL PAVEMENT OR GROUND SURFACE ELEVATION AS REQUIRED.
11. **SAW CUTTING:** REMOVAL OF ALL PAVEMENT, SIDEWALK AND/OR CURB SHALL BE ACCOMPLISHED BY SAW CUTTING IN ACCORDANCE WITH THE STATE DOT SPECIFICATIONS.
12. **CONCRETE CURB AT ENTRANCES:** SAW CUTTING OF EXISTING CURB HEAD TO PROVIDE DEPRESSED CURB AT ENTRANCES IS PROHIBITED. THE CONTRACTOR SHALL SAW CUT EXISTING CURB AT LIMITS OF WORK AND REPLACE WITH DEPRESSED CURB AT ALL ENTRANCES. DRILL AND DOWEL ALL CURB INCLUDING DEPRESSED CURB TO EXISTING CURB PER THE DETAIL.
13. **CONNECTION TO EXISTING CONCRETE:** WHERE PROPOSED CONCRETE IS TO CONNECT TO EXISTING CONCRETE, AT LEAST 15" OF REINFORCING STEEL SHALL BE EXPOSED FROM THE EXISTING CONCRETE OR THE CONTRACTOR SHALL PROVIDE NEW HORIZONTAL DOWEL BARS PER THE DETAILS.
14. **ACCESSIBILITY SPECIFICATIONS:** SEE ACCESSIBILITY SPECIFICATIONS FOR MORE INFORMATION REGARDING PAVING IN THE ACCESSIBLE AREAS.

SYMBOLS AND ABBREVIATIONS LEGEND

- FLAG POLE
- SIGN
- SIGN IN BOLLARD
- DOUBLE FACED SIGN
- DOUBLE FACED SIGN IN BOLLARD
- BOLLARD
- PARKING LOT LIGHT POLE
- WALL SCONCE
- GREASE TRAPS
- SANITARY MANHOLE (S)
- SANITARY CLEANOUT (CO)
- SEWER CLEANOUT (CO)
- STORM SEWER CB/ INLET
- STORM MANHOLE
- FLARED END SECTION
- DOWNSPOUT/ ROOF DRAIN AT GRADE (RDO, DSO)
- DOWNSPOUT/ ROOF DRAIN CONNECTION (RD, DS)
- WATER VAULT (W)
- FIRE HYDRANT
- B-BOX/ WATER VALVE (WV, BB)
- PRESSURE CONNECTION (PC)
- SPIGOT / IRRIGATION STUB
- GAS METER (GM)
- GAS VALVE (GV)
- PROPOSED OVERLAND FLOW ROUTE (PROPOSED OVERFLOW ROUTE)
- FLOW ARROW (PAVEMENT) (0.00%)
- FLOW ARROW (LANDSCAPE)
- ELECTRIC METER (EM)
- ELECTRIC TRANSFORMER (TR.)
- CABLE TV STRUCTURE (CTV)
- FIBER OPTIC STRUCTURE (FBR)
- TELEPHONE STRUCTURE (TEL)
- ORNAMENTAL METAL FENCE
- WOOD FENCE
- CONSTRUCTION SITE FENCE
- SILT FENCE (SF)
- GUARDRAIL
- MINOR CONTOUR (799)
- MAJOR CONTOUR (800)
- HIGH WATER LINE (HWL)
- NORMAL WATER LINE (NWL)
- FLOODPLAIN (FPL)
- FLOODWAY (FWY)
- WETLAND (WTLD)
- 50' BUFFER (50' BUFFER)
- 100' BUFFER (100' BUFFER)
- DEMO (XXXX)
- TREE PROTECTION FENCE (TPF)
- OVERHEAD ELECTRIC (OHE)
- UNDERGROUND ELECTRIC (UGE)
- CABLE/TV (CATV)
- FIBER OPTIC LINE (FO)
- GAS LINE (GAS)
- WATER MAIN (WM 4")
- STORM SEWER PIPE (LF~PIPE SIZE, SLOPE%)
- SANITARY SEWER PIPE (LF~PIPE SIZE, SLOPE%)
- COMBINED SEWER PIPE (LF~PIPE SIZE, SLOPE%)
- PROPOSED SPOT GRADE (TC803.00 / FL802.50)

TC	(TOP OF CURB)	TOW	(TOP OF WALL)
FL	(FLOW LINE)	BOW	(BOTTOM OF WALL)
BC	(BACK OF CURB)	TF	(TOP OF FOUNDATION)
DC	(DEPRESSED CURB)	GF	(GRADE AT FOUNDATION)
FC	(FACE OF CURB)	FNC	(FENCE)
W	(TOP OF WALK)	WTLD	(WETLAND)
P	(PAVEMENT)	BLDG	(BUILDING)
E	(EDGE)	FLP	(FLOODPLAIN)
		FLW	(FLOODWAY)

MUNICIPAL/AGENCY APPROVAL STAMP

FREDDY'S - NAPERVILLE

1967 GLACIER PARK AVENUE
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SPECIFICATIONS & LEGENDS

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PRJ#: 5477-300-32-01

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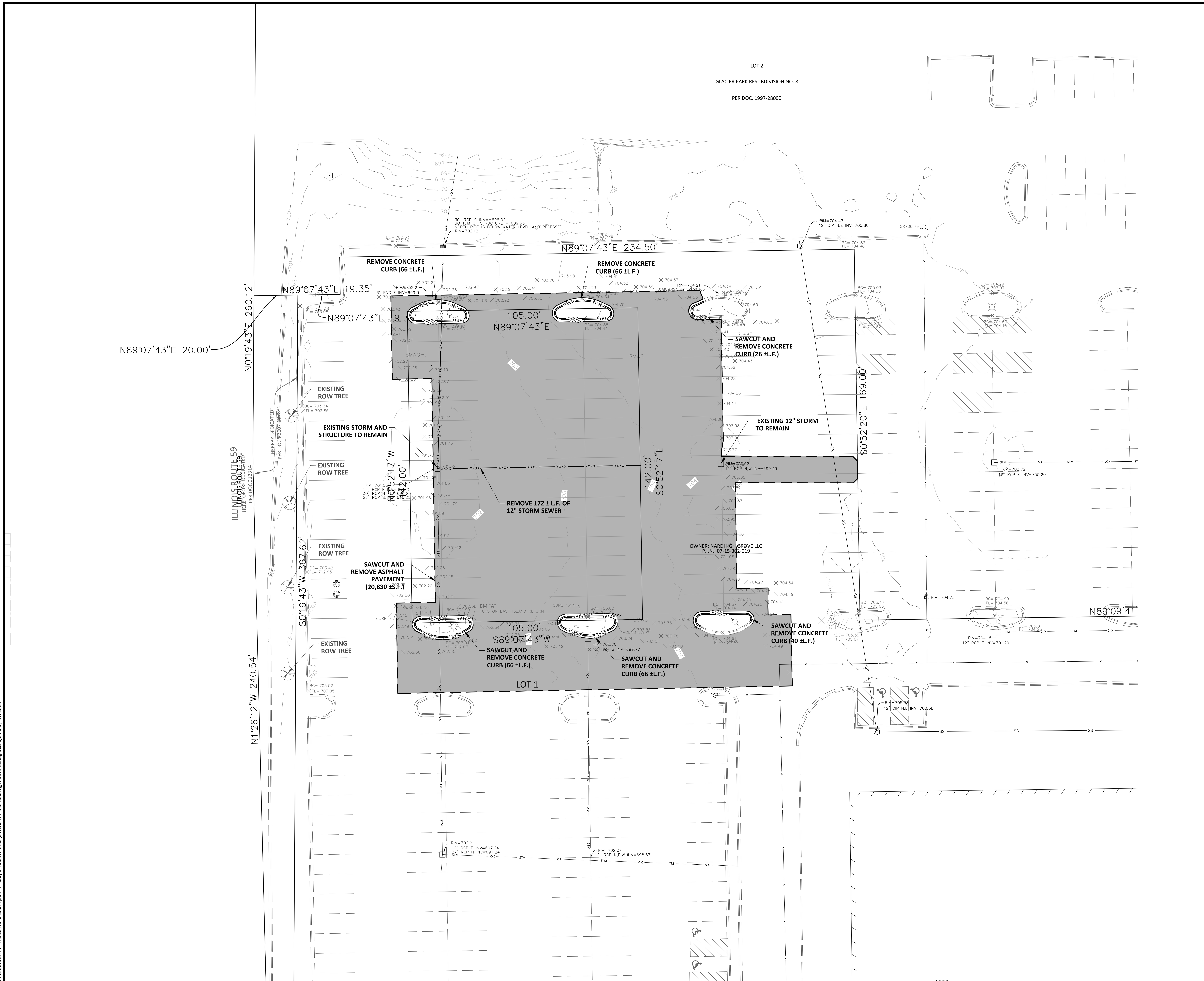
SHEET #: C-2



DEMOLITION - KEY LEGEND

SYMBOL	DESCRIPTION
	REMOVE BUILDING
	REMOVE GRAVEL
	REMOVE CONCRETE
	REMOVE ASPHALT
	REMOVE PAVERS
	WOOD STRUCTURES
	REMOVE CURB
	REMOVE ITEM
	REMOVE ITEM

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EX. COND & DEMO PLAN

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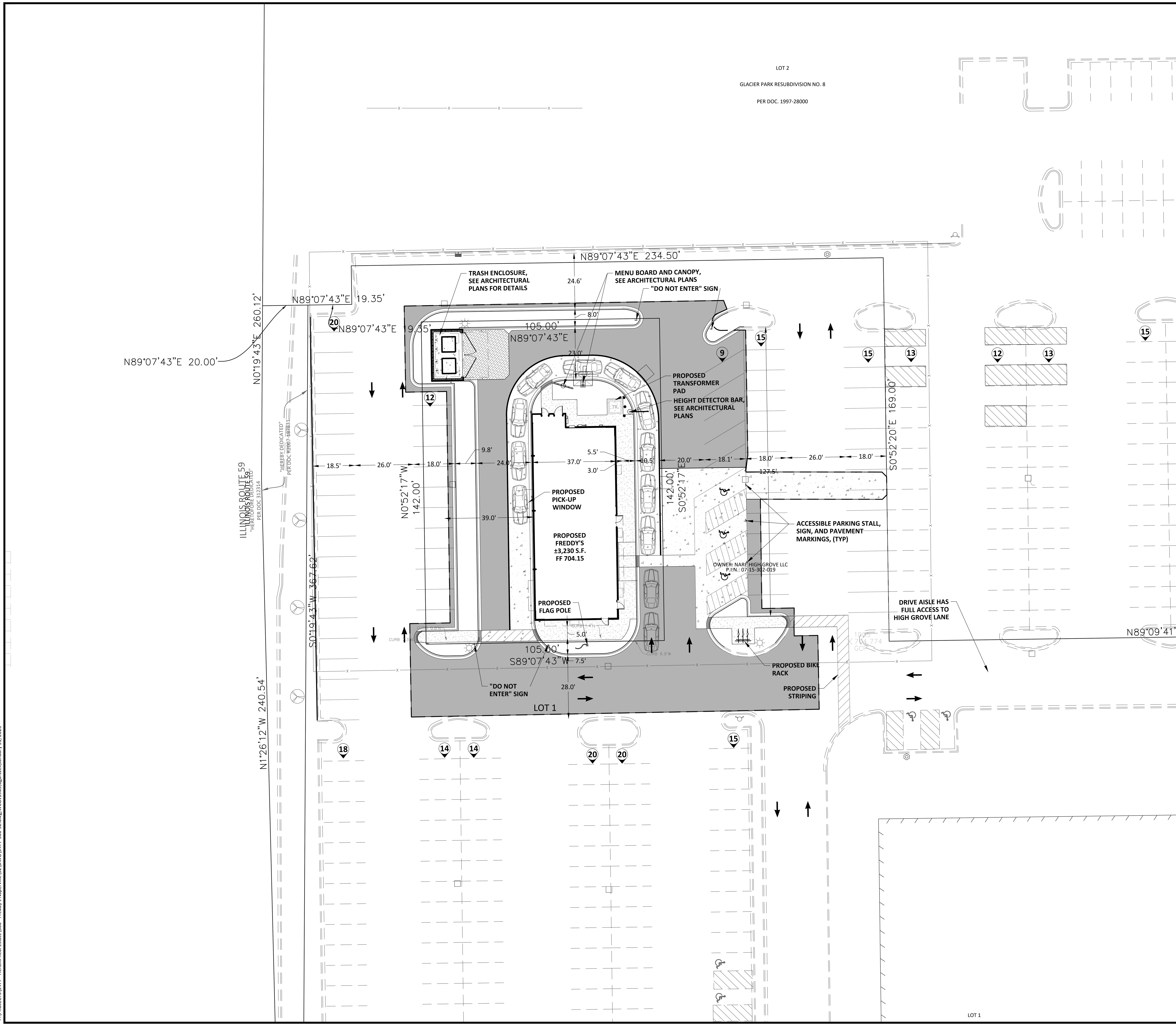

PAVEMENT KEY SYMBOL

STANDARD DUTY ASPHALT PAVEMENT SN = 2.6	CONCRETE SIDEWALK
HEAVY DUTY CONCRETE PAVEMENT	STANDARD CONCRETE PAVEMENT

NOTE: SEE C-10 FOR PAVEMENT LEGEND INCLUDING STRUCTURAL NUMBERS

MUNICIPAL/AGENCY APPROVAL STAMP

SITE DATA:

SITE AREA	=	14,910 S.F.
BUILDING AREA	=	3,230 S.F.

SITE NOTES:

1. THE BASELINE FOR GEOMETRIC LAYOUT IS THE SOUTHERN AND WESTERN PROPERTY LINES.
2. ALL DIMENSIONS ARE TO THE BACK OF CURB, OUTSIDE FACE OF BUILDING, AND EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
3. ALL PARKING LOT STRIPING SHALL BE 4" WIDE YELLOW PAINT UNLESS OTHERWISE NOTED ON THE PLANS.
4. ALL ITEMS NOTED ON PLANS REFER TO A PROPOSED CONDITION OR ITEM UNLESS OTHERWISE NOTED ON PLANS OR IDENTIFIED ON THE SURVEY.

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GEOMETRIC PLAN

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SHEET #: C-4

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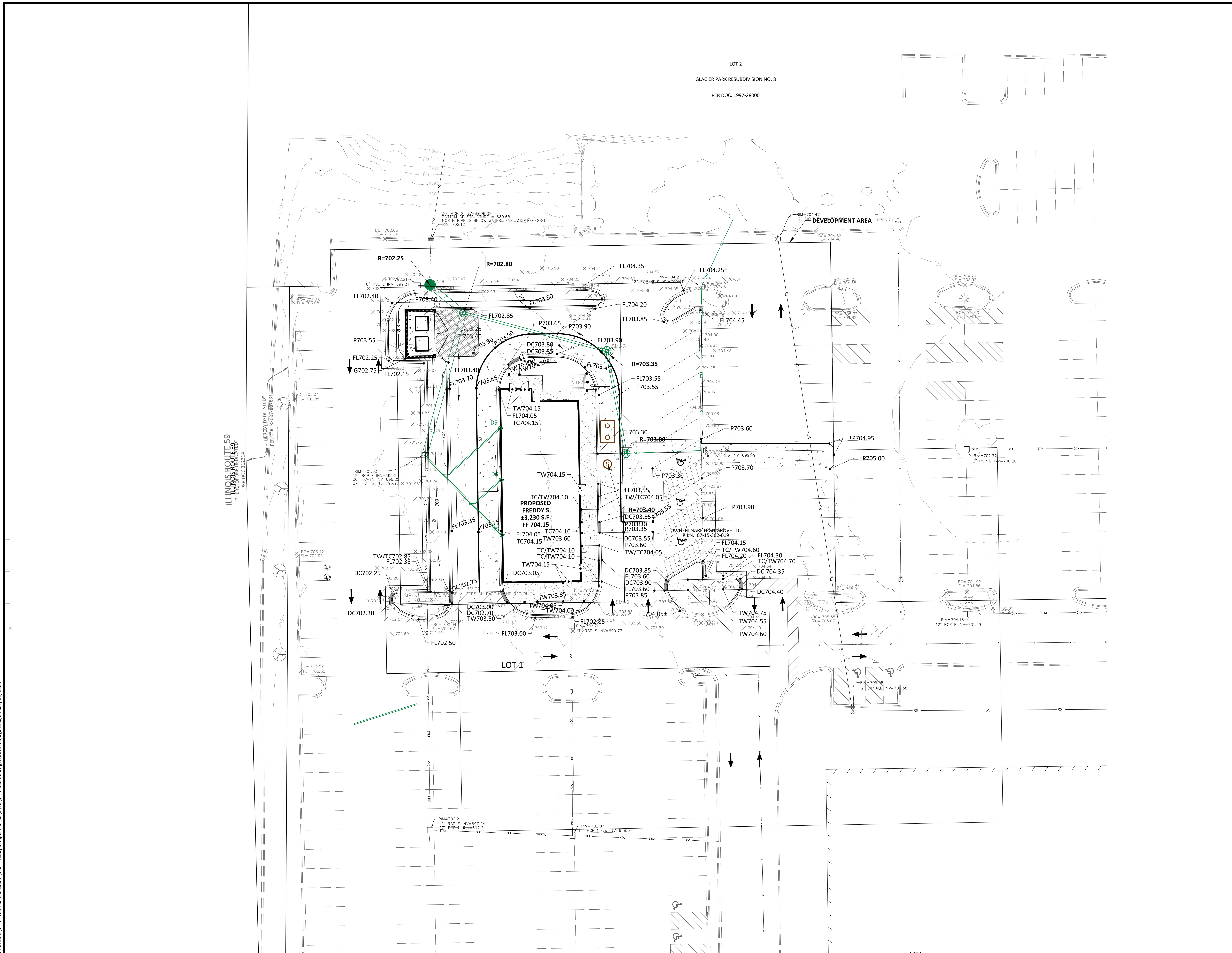

GRADING NOTES:

1. UNLESS OTHERWISE SPECIFIED, ADD 0.5' TO ALL FLOWLINE (FL) OR PAVEMENT (P) GRADES TO OBTAIN TOP OF CURB (TC) ELEVATION.
2. CONTRACTOR TO MATCH EXISTING GRADE (ME) AT PERIMETER CONDITIONS. ALL GRADES SHOWN AS (+/-) HAVE BEEN INTERPRETED FROM THE SURVEY AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION OF ADJACENT IMPROVEMENTS.
3. SEE ACCESSIBILITY PLAN FOR ADDITIONAL GRADES, DETAILS, AND REQUIREMENTS WITHIN THE ACCESSIBILITY AREAS.

STORMWATER DETENTION SUMMARY:

JURISDICTIONAL AUTHORITY IS:
CITY OF NAPERVILLE
STORMWATER DETENTION IS NOT REQUIRED FOR THIS SITE.
BMP'S ARE NOT REQUIRED FOR THIS SITE.

DEVELOPMENT AREA	=	27,321 S.F.
EXISTING IMPERVIOUS AREA	=	1,422 S.F
PROPOSED PERVIOUS AREA	=	3,054 S.F.
NET PERVIOUS AREA	=	1,632 S.F.

SCALE: 1" = 20'

0 10' 20' 40'

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FREDDY'S - NAPERVILLE

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GRADING & STM WATER PLAN

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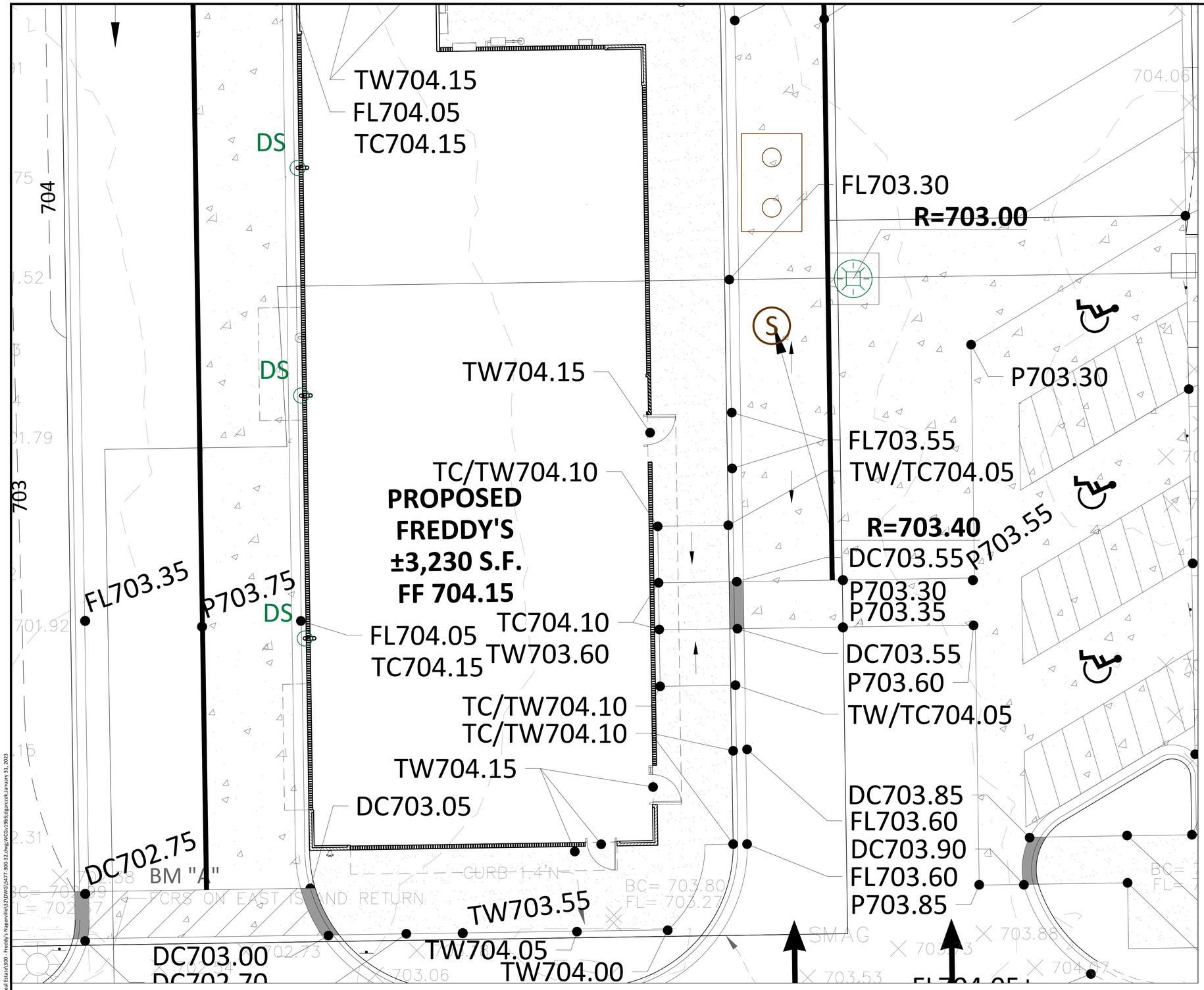

ACCESSIBLE PATH ENLARGEMENT

ACCESSIBLE PATH - KEY

ACCESSIBLE ROUTE TO THE PUBLIC WAY AND ACCESSIBLE PARKING STALLS

MUNICIPAL/AGENCY APPROVAL STAMP

ACCESSIBILITY NOTES:

1. THIS PLAN HAS BEEN INCLUDED FOR SPECIFIC GRADING WITHIN THE ACCESSIBILITY AREAS. SEE GRADING AND STORMWATER PLAN FOR ADDITIONAL GRADES THROUGHOUT THE SITE.

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ACCESSIBILITY PLAN

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N

SCALE: 1" = 5'
0 2.5' 5' 10'

SHEET #: C-6

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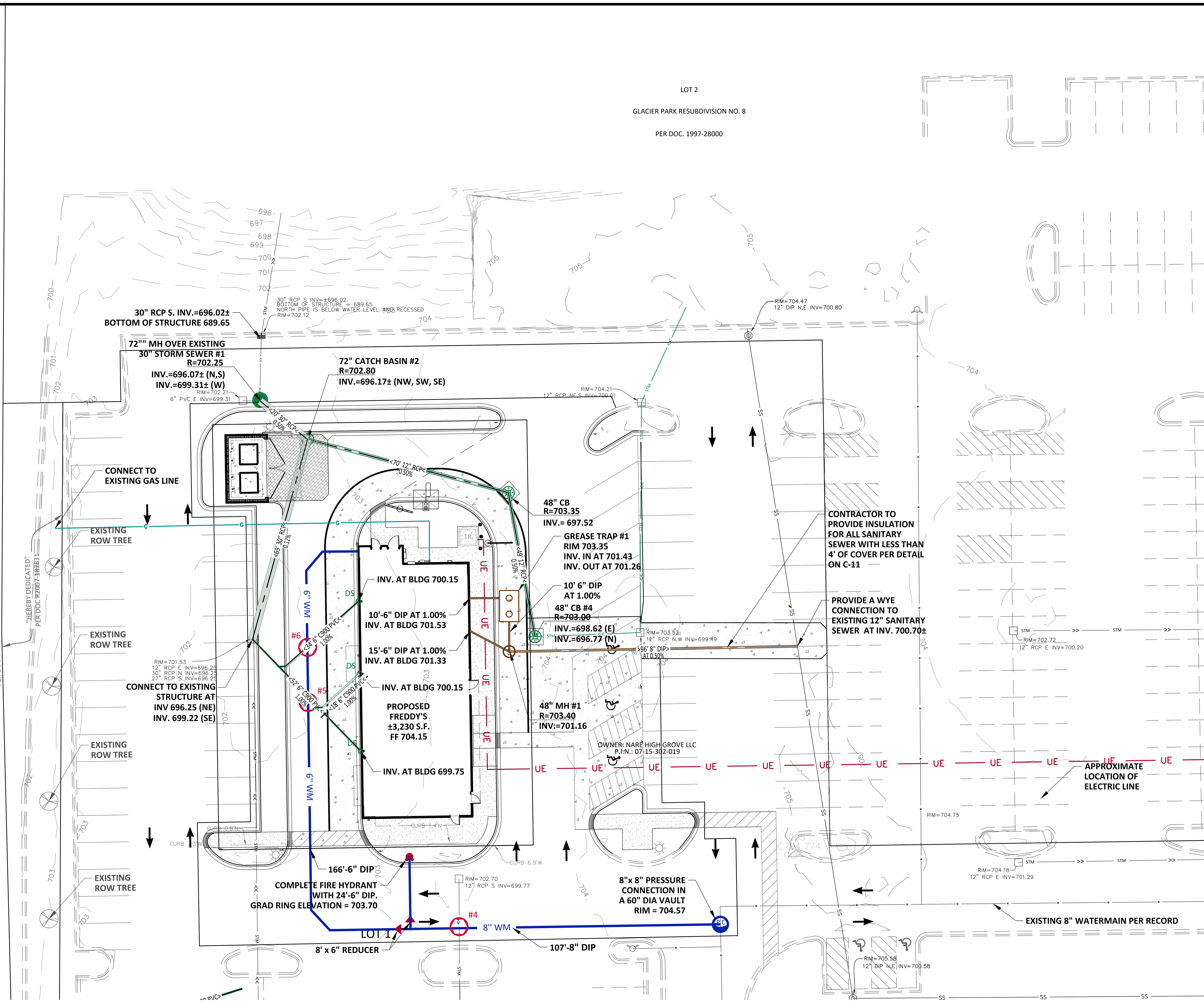

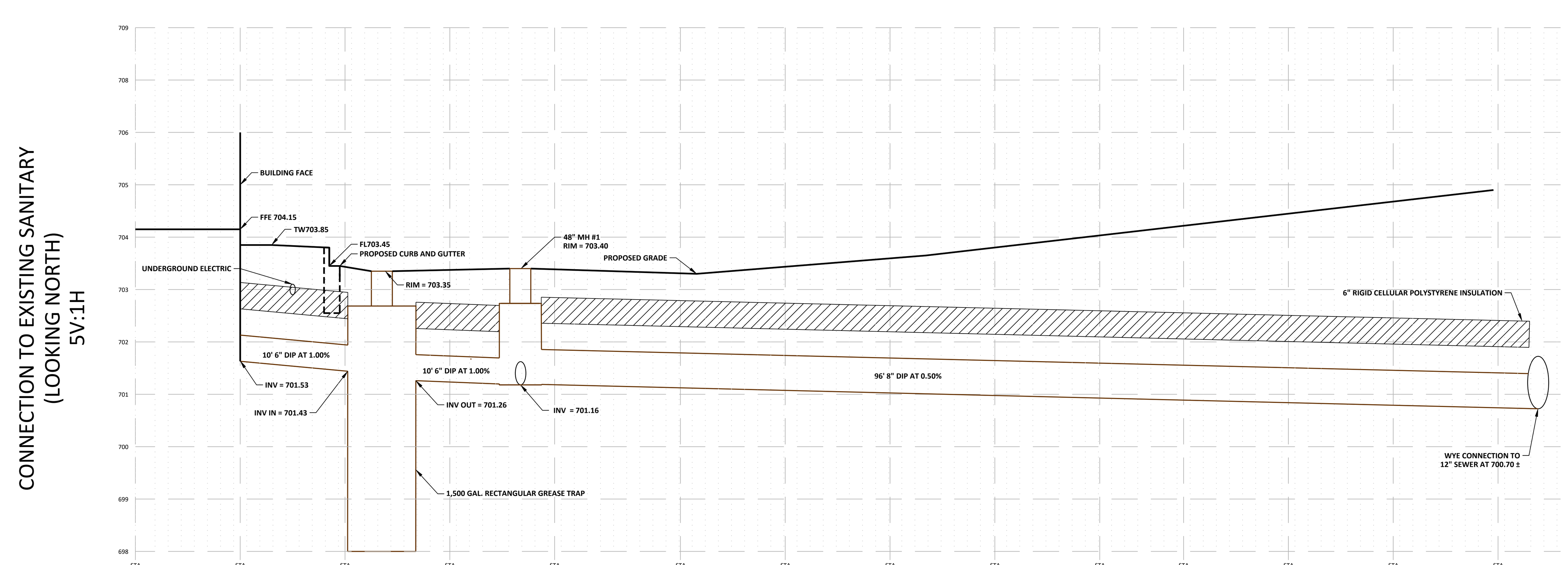

N

SCALE: 1" = 20'

MUNICIPAL/AGENCY APPROVAL STAMP

UTILITY NOTES:

1. CONTRACTOR TO VERIFY WITH ARCHITECTURAL PLANS THAT THE UTILITIES AS THEY EXIT THE BUILDING ARE IN THE SAME LOCATION AS SHOWN ON THIS PLAN. NOTIFY THE DESIGN ENGINEER IF THERE ARE ANY DISCREPANCIES.
2. GAS, TELEPHONE, AND ELECTRIC LOCATIONS SHALL BE COORDINATED WITH THE UTILITY COMPANIES PRIOR TO INSTALLATION. LINES SHOWN ON THIS PLAN ARE FOR BUDGETING AND GUIDANCE ONLY.

UTILITY LEGEND:

1. **RCP** = REINFORCED CONCRETE PIPE
CLASS IV, ASTM C-76 PIPE, ASTM C-443 JOINTS
2. **RCPWM** = REINFORCED CONCRETE PIPE
CLASS IV, ASTM C-76 PIPE, ASTM C-361 JOINTS
3. **PVC** = POLYVINYL CHLORIDE PIPE
SDR26, ASTM D-3034 PIPE, ASTM D-3212 JOINTS
4. **PVCWM** = POLYVINYL CHLORIDE PIPE
AWWA C900, OR AWWA C905 OR ASTM D-2241 PIPE, ASTM D-3139 JOINTS
5. **DIP** = DUCTILE IRON PIPE
CLASS 52, CEMENT LINED, ANSI A21.51 PIPE, ANSI A21.11 JOINTS
6. **HDPE** = HIGH DENSITY POLYETHYLENE PIPE
AASHTO M-294 (12"-60") AASHTO M-252 (3"-10")
7. **CWM** = TYPE “K” COPPER WATERMAIN
ASTM B-88 AND ASTM B-251 WITH SWEATED JOINTS
8. **ESVCP** = EXTRA STRENGTH VITRIFIED CLAY PIPE
ASTM C-700 PIPE, ASTM C-425 JOINTS.

UTILITY CROSSING TABLE

#1	TOP OF STORM	= 700.72 ±
	BOTTOM OF SANITARY	= 700.97
#2	TOP OF STORM	= 697.91 ±
	BOTTOM OF SANITARY	= 701.28
#3	TOP OF STORM	= 697.86 ±
	BOTTOM OF SANITARY	= 701.35
#4	GRADE	= 703.0 ±
	BOTTOM OF STORM	= 699.40 ±
	TOP OF WATERMAIN	= 698.40
	PROVIDE CASING FOR STORM SEWER WITHIN 10' OF EITHER SIDE OF CROSSING	
#5	GRADE	= 703.50 ±
	INV. OF STORM	= 699.50 ±
	BOTTOM OF WATERMAIN	= 697.25
	TOP OF WATERMAIN	= 698.00
	(PROVIDE WATERMAIN QUALITY STORM SEWER)	
#6	GRADE	= 703.50 ±
	INV. OF STORM	= 699.50 ±
	BOTTOM OF WATERMAIN	= 697.25
	TOP OF WATERMAIN	= 698.00
	(PROVIDE WATERMAIN QUALITY STORM SEWER)	

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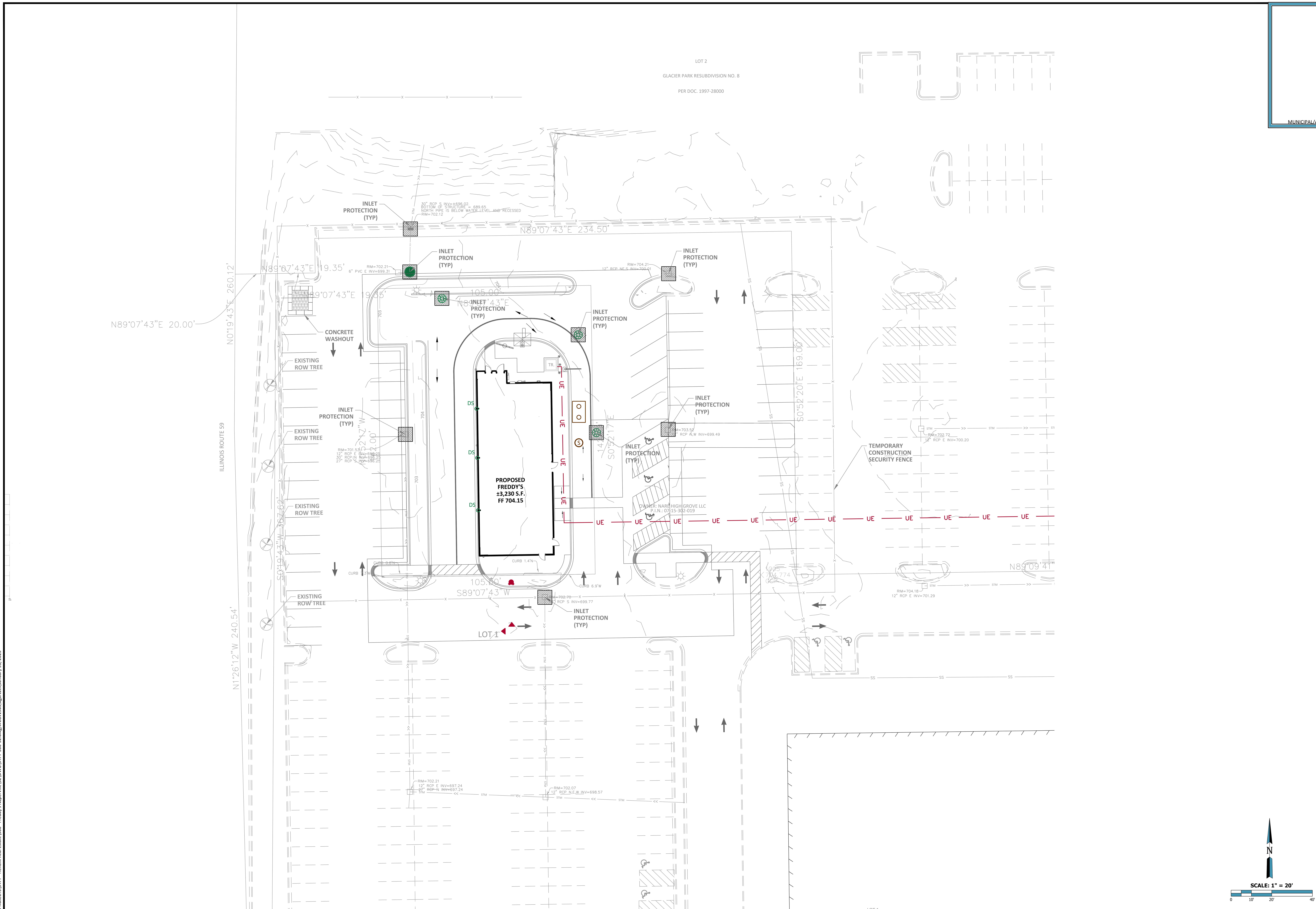

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SOIL EROSION CONTROL PLAN

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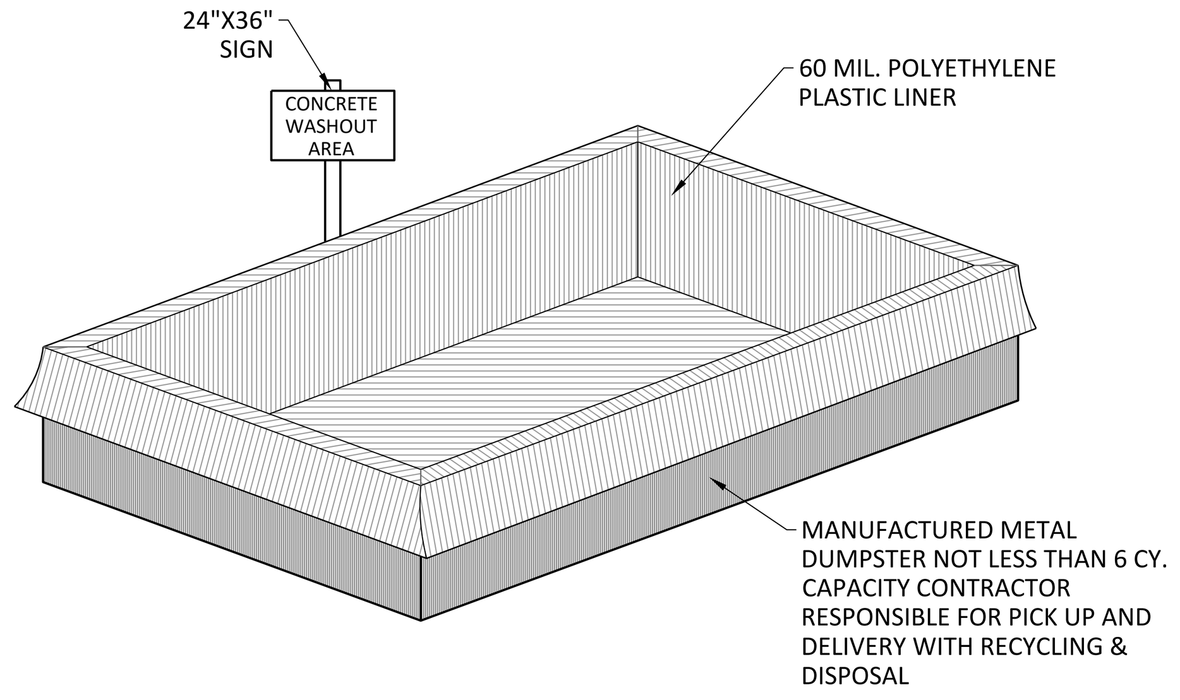
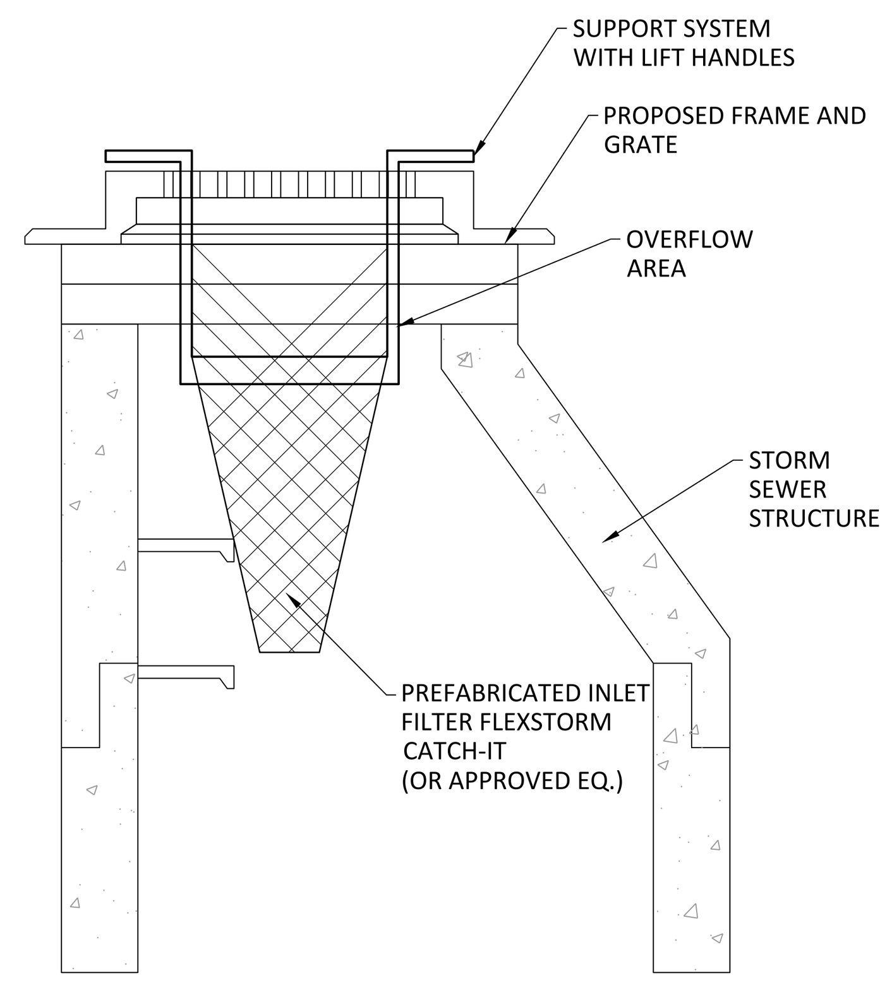


1. FACE SIGN TOWARD NEAREST STREET OR ACCESS POINT.
2. CONCRETE WASHOUT SHALL BE LOCATED BEHIND THE CURB AND 50' (MIN.) FROM NEAREST DRAINAGE INLET OR WATER COURSE.

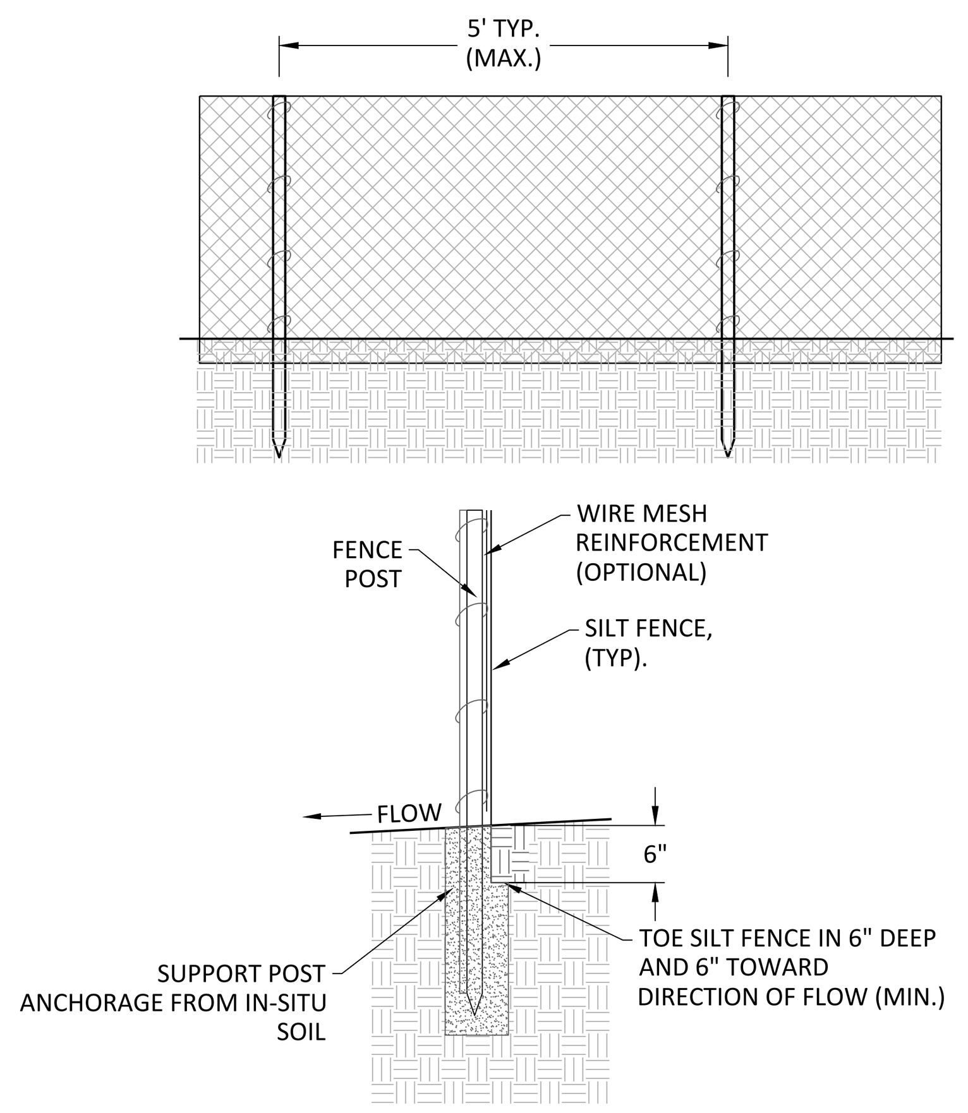
CONCRETE WASHOUT IN DUMPSTER - OPTION

NOT TO SCALE



INLET FILTER PROTECTION - BASKET

NOT TO SCALE



1. FILTER FABRIC SHALL MEET GEOTEXTILE 592 TABLE 1 OR 2, CLASS 1 WITH EQUIVLENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 40 FOR WOVEN.
2. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POSTS WITH A MINIMUM CROSS SECTION AREA OF 3 SQ. IN.

SILT FENCE

NOT TO SCALE

DESCRIPTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY SEEDING				21ST →					30TH			
OAT COVER CROP (90 LBS/AC.) (NOTE 2)				1ST →			4TH					
WHEAT COVER CROP (90 LBS/ AC.) (NOTE 2)				1ST →					30TH			
ANNUAL RYE COVER CROP (90 LBS. AC.) (NOTE 2)				1ST →					30TH			

NOTE 1: CONTRACTOR TO COORDINATE WITH GROWER/ SUPPLIER TO ENSURE AVAILABILITY.
NOTE 2: COVER CROPS AS SHOWN MAY BE SUPERCEDED IN NATIVE SEED AREAS. SEE SPECIFICATION FOR NATIVE AREAS FOR SPECIFIC APPLICATIONS.

CONSTRUCTION SEQUENCE

1. MOBILIZE TO THE SITE.
2. INSTALL SOIL EROSION CONTROL MEASURES.
3. CONSTRUCT A TEMPORARY CONSTRUCTION ENTRANCE/ EXIT.
4. TOPSOIL STRIPPING AND STOCKPILING. PROVIDE TEMPORARY SEEDING ON STOCKPILES AND ALL OTHER AREAS OF THE SITE THAT WILL REMAIN UNDISTURBED FOR 30 DAYS OR MORE. REFER TO LANDSCAPE PLAN FOR SEEDING.
5. MASS GRADING OF DISTURBED SITE.
6. INSTALLATION OF BUILDING FOUNDATIONS.
7. INSTALLATION OF ALL UNDERGROUND UTILITIES.
8. INSPECT SOIL EROSION CONTROL MEASURES AND MAINTAIN OR REPLACE AS NECESSARY.
9. INSTALLATION OF PARKING LOT SUB-BASE MATERIAL.
10. INSTALLATION OF PARKING LOT BASE COURSE MATERIALS.
11. INSTALLATION OF PERMANENT SOIL STABILIZATION MEASURES AND RE-SPREAD TOPSOIL.
12. INSTALLATION OF PARKING LOT SURFACE COURSE MATERIALS.
13. INSTALLATION OF LANDSCAPE.
14. REMOVE TEMPORARY SOIL EROSION CONTROL MEASURES AFTER FINAL SOIL STABILIZATION MEASURES AND THE ESTABLISHMENT OF ADEQUATE VEGETATIVE COVER.
15. ALL STORM SEWERS, CATCH BASINS, PAVEMENT SURFACES AND/ OR DETENTION FACILITIES ARE TO BE CLEANED PRIOR TO FINAL INSPECTION.
16. ALL MAINTENANCE OF THE EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

1. CONTRACTOR IS RESPONSIBLE TO VERIFY AND ADJUST THE SEQUENCE OF OPERATION IF NECESSARY.
2. SEE LANDSCAPE PLAN FOR PLANTING DETAILS, SOIL PREPARATION, AMENDMENTS, PLANT LISTS, LANDSCAPE SPECIFICATIONS.
3. TEMPORARY SEED SHALL CONFORM TO THE "ILLINOIS URBAN MANUAL" FOR ALL AREAS TO BE DISTURBED AREAS LESS THAN A YEAR OR BARREN AREAS THAT NEED TO BE STABILIZED.
4. CONTRACTOR TO UTILIZE MULCH FOR SEED PROTECTION, SOIL PROTECTION, DUST CONTROL, OR STABILIZATION AS NEEDED AND FOR WHEN SEEDING CANNOT BE PERFORMED.

TEMPORARY SEEDING TABLE AND CONSTRUCTION SEQUENCE

NOT TO SCALE

SPECIFICATIONS - SOIL EROSION

1. **STANDARDS AND SPECIFICATIONS:** THE CURRENT EDITION OF THE "ILLINOIS URBAN MANUAL", ALL STATE AND FEDERAL REGULATIONS, AND THE NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) PERMIT PROVISIONS SHALL GOVERN THIS WORK.
2. **SWPPP INSPECTOR:** IF AN NPDES PERMIT IS REQUIRED FOR THE SITE, THE OWNER AND/OR CONTRACTOR SHALL APPOINT A QUALIFIED PERSON TO FULFILL THE INSPECTION REQUIREMENTS OF THE PERMIT (SWPPP INSPECTOR). THE SITE SHALL BE INSPECTED BY THE SWPPP INSPECTOR AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 1/2" OR GREATER (OR EQUIVALENT SNOWFALL). SWPPP INSPECTIONS SHALL CONTINUE UNTIL FINAL STABILIZATION AND TERMINATION REQUIREMENTS OF THE SWPPP HAVE BEEN MET.
3. **SWPPP COMPLIANCE:** THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND CONDITIONS DETERMINED BY THE SWPPP INSPECTOR WHILE CONDUCTING ACTIVITIES ON THIS PROJECT. THE SWPPP PLANS AND DOCUMENTS ARE PROVIDED FOR THE SOLE BENEFIT OF THE CONTRACTOR AS A PLANNING TOOL FOR COMPLYING WITH THE ENVIRONMENTAL REGULATIONS OF THIS PROJECT. THE CONTRACTOR TOGETHER WITH THE SWPPP INSPECTOR IS EXPECTED TO PROVIDE, EXPAND, SUBMIT AND MONITOR A FULL COMPREHENSIVE SWPPP BEYOND WHAT IS PROVIDED.
4. **CLEANING, REPAIR, AND MAINTENANCE:** THE CONTRACTOR SHALL REFER TO THE SWPPP FOR SEQUENCING OF CONSTRUCTION, INSTALLATION OF NEW EROSION CONTROL DEVICES AND CLEANING, REPAIR AND MAINTENANCE OF EXISTING EROSION CONTROL DEVICES. THE CONTRACTOR SHALL REVISE, RELOCATE AND/OR ADD DEVICES TO REFLECT ACTUAL SITE CONDITIONS AND TO ACCOMMODATE LOCATIONS FOR CONSTRUCTION TRAILER AREAS, STORAGE AREAS, FUELING AREAS, TOILETS, TRASH RECEPTACLES AND WASHOUT AREAS. ANY ACCIDENTAL RELEASE OF SEDIMENT OR POLLUTANTS FROM THE SITE SHALL BE CLEANED BY THE CONTRACTOR.
5. **LIMIT OF EXPOSURE:** TO THE EXTENT POSSIBLE, THE EXPOSED AREAS AND DURATION OF EXPOSURE SHALL BE KEPT TO A MINIMUM AND ALL AREAS WHERE CONSTRUCTION HAS STOPPED FOR 7 DAYS OR MORE MUST BE STABILIZED PER THE SWPPP.
6. **SILT FENCE:** AT A MINIMUM, CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON THE EROSION CONTROL PLANS. SILT FENCE SHALL ALSO BE INSTALLED AS NEEDED AND DIRECTED BY THE SWPPP INSPECTOR IN ORDER TO CONTROL SILT ON THE SITE. SEDIMENT SHALL BE REMOVED FROM BEHIND A SILT FENCE WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE. TEARS SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY. WHEN A SILT FENCE HAS BROKEN FREE AND IS NO LONGER TOED INTO THE GROUND, IT SHALL BE REPAIRED AS SOON AS POSSIBLE.
7. **INLET FILTERS:** ALL STORMWATER INLETS AND CATCH BASINS WITH AN OPEN LID ARE TO BE PROTECTED WITH AN INLET FILTER PER THE DETAIL. ALL INLET FILTERS ARE TO BE INSPECTED PERIODICALLY TO DETERMINE IF THEY ARE WORKING PROPERLY. FILTERS SHALL BE CLEANED WHEN ONE HALF OF THE FILTER HAS BEEN FILLED WITH SILT AND/OR DEBRIS.
8. **CONCRETE WASHOUT:** CONTRACTOR SHALL SUPPLY A CONCRETE WASHOUT AREA PER THE DETAILS AND DIRECT ALL CONCRETE TRUCKS TO USE IT PRIOR TO LEAVING THE SITE. CONCRETE WASHOUT SHALL BE MAINTAINED AS NEEDED TO KEEP FROM SPILLING OUT ON THE DIRT.
9. **CONSTRUCTION ENTRANCE:** CONTRACTOR SHALL PROVIDE A TEMPORARY CONSTRUCTION ENTRANCE PER THE DETAILS AND IN THE LOCATION SHOWN ON THE PLANS. IF ADDITIONAL ENTRANCES ARE REQUESTED, PLEASE CONTACT THEN ENGINEER AND/OR THE AGENCIES HAVING JURISDICTION OVER THE ROADWAY FOR APPROVAL. ENTRANCE SHALL BE MAINTAINED TO ALLOW DIRT TO FALL OFF VEHICLES BEFORE ENTERING THE ROADWAY.
10. **STOCKPILES:** ALL TEMPORARY STOCKPILES SHALL BE SURROUNDED BY SILT FENCE. IF TOPSOIL STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN DAYS, TEMPORARY SEEDING AND STABILIZATION IS REQUIRED.
11. **SILT TRAPS:** SILT TRAPS SHALL BE INSTALLED TO CATCH SILT LADEN WATER BEFORE ENTERING PROTECTED AREAS. SILT TRAPS SHALL BE EMPTIED WHEN THEY REACH ONE HALF OF THE CAPACITY OF THE TRAP.
12. **DUST MANAGEMENT:** DURING PERIODS OF EXTENDED DRY WEATHER, THE CONTRACTOR SHALL MAINTAIN A WATER TRUCK ON THE SITE FOR WATERING DOWN THE SOIL TO PREVENT WIND EROSION (DUST).
13. **DEWATERING:** DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO A DANDY BAG, SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
14. **SITE ENTRY/EXIT LOCATIONS:** SITE ENTRY AND EXIT LOCATIONS SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS MUST BE REMOVED IMMEDIATELY. CONTRACTOR SHALL EMPLOY A STREET CLEANER TO USE AS OFTEN AS NEEDED AS DETERMINED BY THE MUNICIPAL ENGINEER AND/OR SWPPP INSPECTOR. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO A PUBLIC ROADWAY, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN. ALL FINES IMPOSED FOR TRACKING ONTO PUBLIC ROADS SHALL BE PAID BY THE CONTRACTOR.
15. **PROTECTION OF ADJACENT PROPERTY:** CONTRACTOR SHALL ASSUME FULL LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL METHODS AND PROCEDURES SHOWN AND NOTED ON THE PLANS AND SWPPP.
16. **RE-VEGETATION:** AT THE COMPLETION OF PAVING AND FINAL GRADING OPERATIONS, ALL DISTURBED AREAS SHALL BE VEGETATED IN ACCORDANCE WITH THE LANDSCAPE PLANS. IN AREAS NOT COVERED BY LANDSCAPE PLAN, THE CONTRACTOR SHALL PROVIDE HYDROMULCH SEEDING AND/OR SODDING FOR ALL DISTURBED AREAS (NOT DESIGNATED TO BE PAVED) IN ACCORDANCE WITH ALL GOVERNING AUTHORITIES' SPECIFICATIONS.
17. **ESTABLISHED VEGETATION:** CONTRACTOR IS TO REGULARLY INSPECT SEEDED AREAS TO VERIFY THAT A GOOD STAND OF VEGETATION IS "ESTABLISHED". VEGETATION WILL NOT BE CONSIDERED "ESTABLISHED" UNTIL 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED WITH PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER. CONTRACTOR SHALL FERTILIZE, WATER, RE-SEED AND MULCH AS NEEDED.
18. **EROSION CONTROL PRODUCT REMOVAL:** THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL SEDIMENT BARRIERS AND INLET PROTECTION AFTER VEGETATION HAS BEEN COMPLETED AND ALL AREAS OF THE SITE HAVE BEEN STABILIZED AND ACCEPTED BY THE GOVERNING AUTHORITIES AND THE DEVELOPER.

MUNICIPAL/AGENCY APPROVAL STAMP

FREDDY'S - NAPERVILLE
1967 GLACIER PARK AVENUE
NAPERVILLE, IL 60540

SOIL EROSION DETAILS & SPECS

NO.	DATE	REVISION DESCRIPTION	BY
1	10/31/2022	PER CITY OF NAPERVILLE COMMENTS	DG
2	12/19/2022	PER CITY OF NAPERVILLE COMMENTS	DG
3	01/02/2023	ADDRESS CHANGE	DG
4	01/30/2023	PER CLIENT REVIEW	DG

DESIGNED BY: DCG
REVIEWED BY: BP
DATE: 09/01/2022
PRJ#: 5477-300-32-01

Weaver Consultants Group

OFFICE LOCATION:
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1316 BOND STREET, SUITE 108
NAPERVILLE, ILLINOIS 60563
(630) 717-4848
wcgrp.com

PAVEMENT LEGEND

ASPHALT DESCRIPTION	ASPHALT SECTION	SECTION DESCRIPTION
STANDARD DUTY PAVEMENT		1.5" ASPHALT SURFACE COURSE 2.5" ASPHALT BINDER COURSE 9" BASE COURSE COMPACTED SUB-BASE GEO-GRID

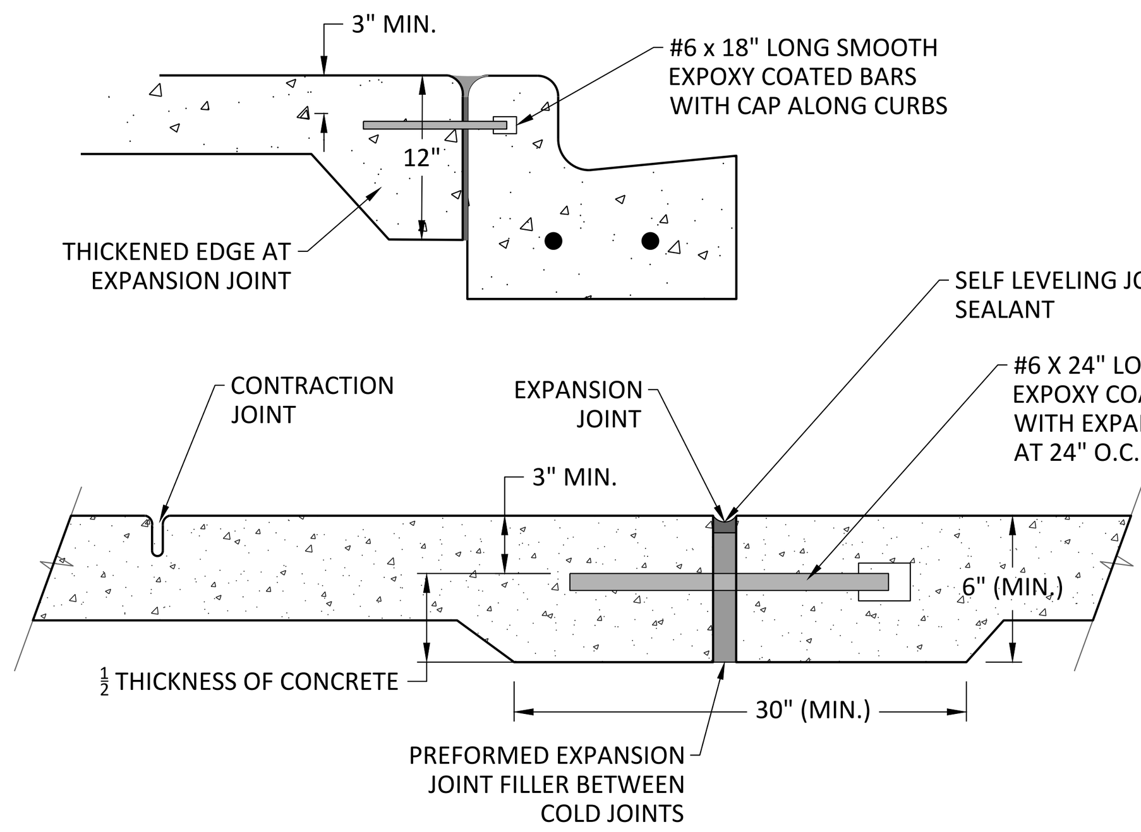
SN = (1.5 x 0.4 + 2.5 x 0.33 + 9 x 0.13) 2.6

CONCRETE DESCRIPTION	CONCRETE SECTION	SECTION DESCRIPTION
CONCRETE SIDEWALK		5" CONCRETE PAVEMENT 4" BASE COURSE COMPACTED SUB-BASE
STANDARD CONCRETE PAVEMENT		6" CONCRETE PAVEMENT 4" BASE COURSE COMPACTED SUB-BASE
HEAVY DUTY CONCRETE PAVEMENT		8" CONCRETE PAVEMENT 6" BASE COURSE COMPACTED SUB-BASE

1. ALL ASPHALT SURFACE COURSE SHALL BE: IL-12.5, BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, N50 MIX C, 4% AIR VOIDS, MAX. RAP ALLOWED 15%, PG 64-22
2. ALL ASPHALT BINDER COURSE SHALL BE: IL-19.0 BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, N50, 4% AIR VOIDS, MAX. RAP ALLOWED 25%, PG 64-22
3. ALL CONCRETE SHALL BE: 4,000 PSI AT 14 DAYS, LIMESTONE AGGREGATE, 5 - 7% AIR ENTRAINMENT, 4" SLUMP LIMIT. PROVIDE CONCRETE SEALER AND A LIGHT BROOM FINISH.
4. ALL BASE COURSE SHALL BE : CRUSHED STONE OR LIMESTONE (CA-6) COMPACTED TO 95% STANDARD LABORATORY DENSITY.
5. ALL SUB-BASE SHALL BE: PROOF ROLLED TO THE SATISFACTION OF THE OWNER (OR OWNER'S REPRESENTATIVE), AND MUNICIPALITY.
6. PRIOR TO THE PLACEMENT OF THE BINDER COURSE OF ASPHALT, THE BASE COURSE SHALL BE CLEANED AND A PRIME COAT SHALL BE APPLIED AT THE RATE OF 0.25 TO 0.50 GAL/SY PER MODOT STANDARDS.
7. PRIOR TO THE PLACEMENT OF THE SURFACE COURSE OF ASPHALT, THE BINDER COURSE SHALL BE CLEANED AND A TACK COAT SHALL BE APPLIED AT A RATE OF 0.10 GAL/SY PER MODOT STANDARDS.
8. SEE PAVING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. GEO-GRID SHALL BE TENSAR BX1100 OR APPROVED EQUAL.

PAVEMENT LEGEND

NOT TO SCALE



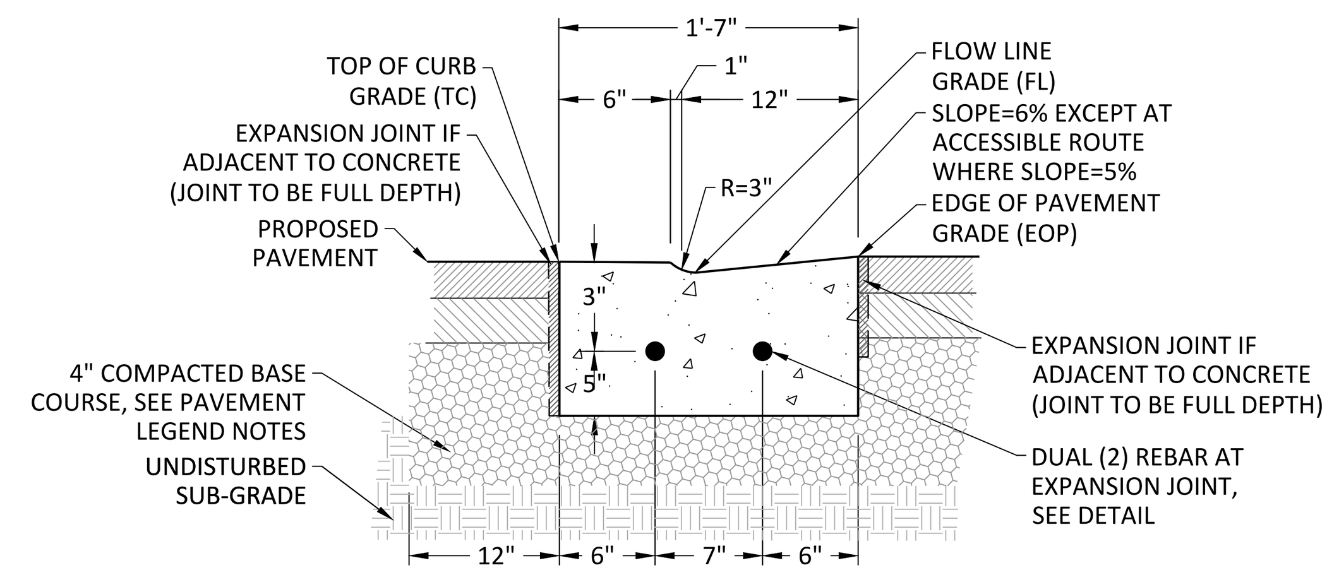
CONTRACTION JOINTS
1. ¼" DEEP FOR CONCRETE PAVEMENT, 2" DEEP FOR CONCRETE SIDEWALKS.
2. TOOLED JOINTS WITH ¼" JOINT RADII.
3. ¼" MAXIMUM WIDTH.

EXPANSION JOINTS
1. ALL EXPANSION JOINTS TO BE ½" PREMOLDED JOINTS.
2. JOINT TO BE FULL DEPTH OF CONCRETE.
3. CLEAN ALL DEBRIS WITH HIGH PRESSURE AIR BEFORE JOINT SEALANT INSTALLATION.
4. FIBER BOARD SHALL BE EXCLUDED AT ACCESSIBLE RAMPS ABUTTING A CURB.
5. EXPANSION JOINTS SHALL BE PROVIDED AROUND THE PERIMETER OF ANY BLOCKOUT IN THE CONCRETE PAVING.

1. SEE PAVEMENT SECTIONS FOR DETAILS.
2. SIDEWALK WIDTHS MAY VARY.
3. ALL REINFORCEMENT BARS SHALL BE GRADE 40 KSI DEFORMED REINFORCING STEEL. SIZING AND SPACING SHALL BE IN ACCORDANCE WITH STATE DOT SPECIFICATIONS.

CONCRETE JOINTS

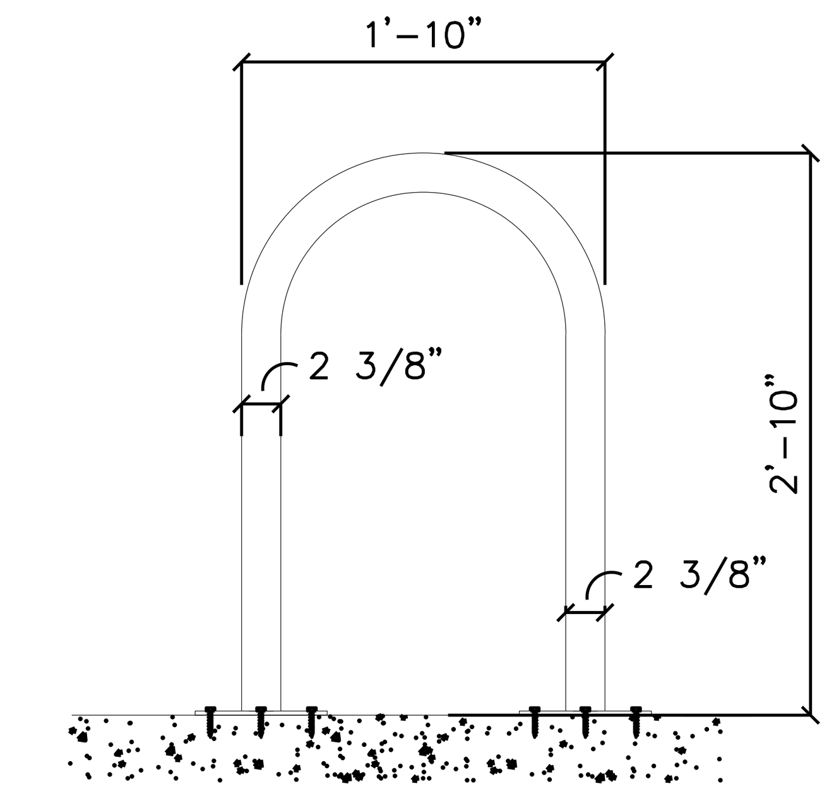
NOT TO SCALE



1. USE REVERSED PITCH GUTTERS WHERE WATER IS DIVERTED AWAY FROM CURB AND STANDARD PITCH GUTTERS WHERE WATER DRAINS TOWARD CURB.
2. LONGITUDINAL SLOPE SHALL BE 0.30% SLOPE MIN.
3. PROVIDE EXPANSION JOINTS AT ALL POINT OF CURVATURE, AT 10' ON EITHER SIDE OF UTILITY TRENCHES OR STRUCTURES AND AT A DISTANCE NOT TO EXCEED 50'.
4. PROVIDE HAND TOOLED CONTRACTION JOINTS IN BETWEEN EXPANSION JOINTS AT DISTANCES NOT TO EXCEED 20'.
5. PROVIDE LIGHT BROOM FINISH IN DIRECTION OF FLOW.
6. FIBER BOARD SHALL BE EXCLUDED AT ACCESSIBLE RAMPS

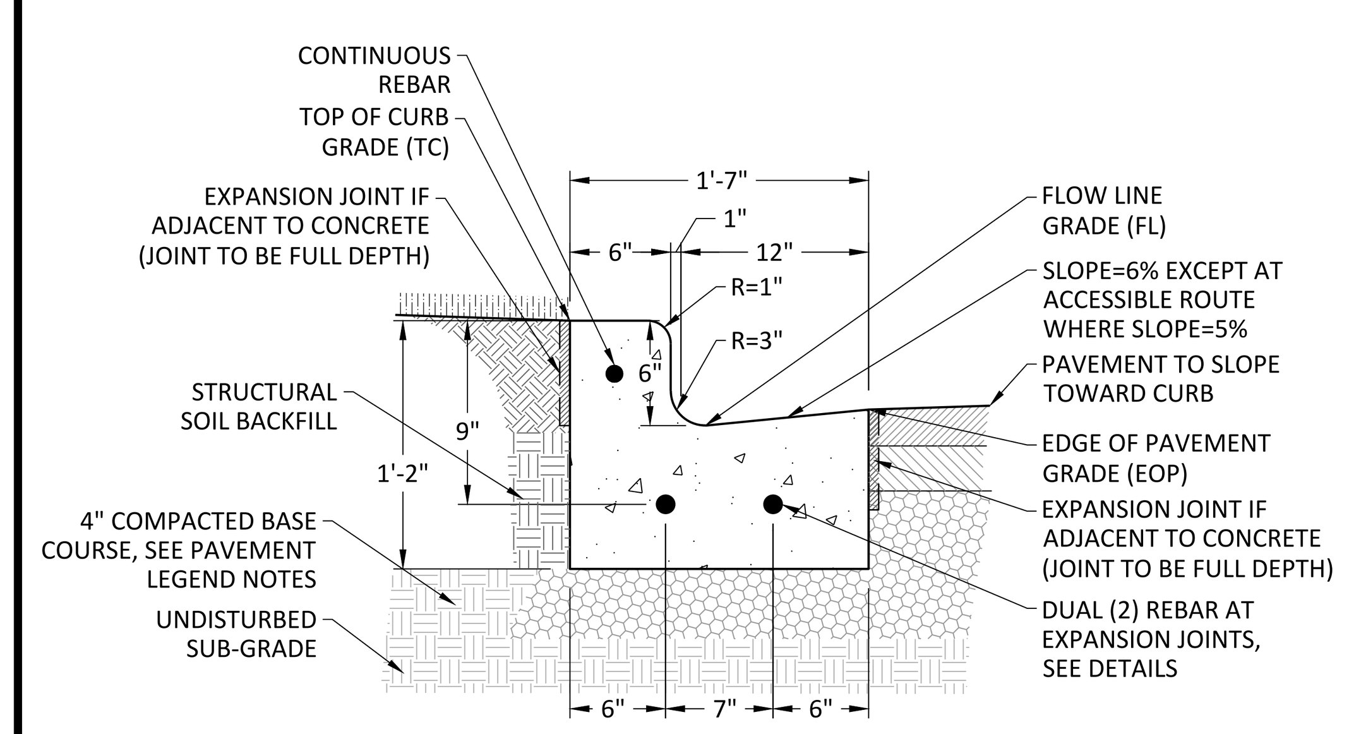
COMBINATION CONCRETE CURB AND GUTTER - DEPRESSED

NOT TO SCALE



BIKE RACK DETAIL

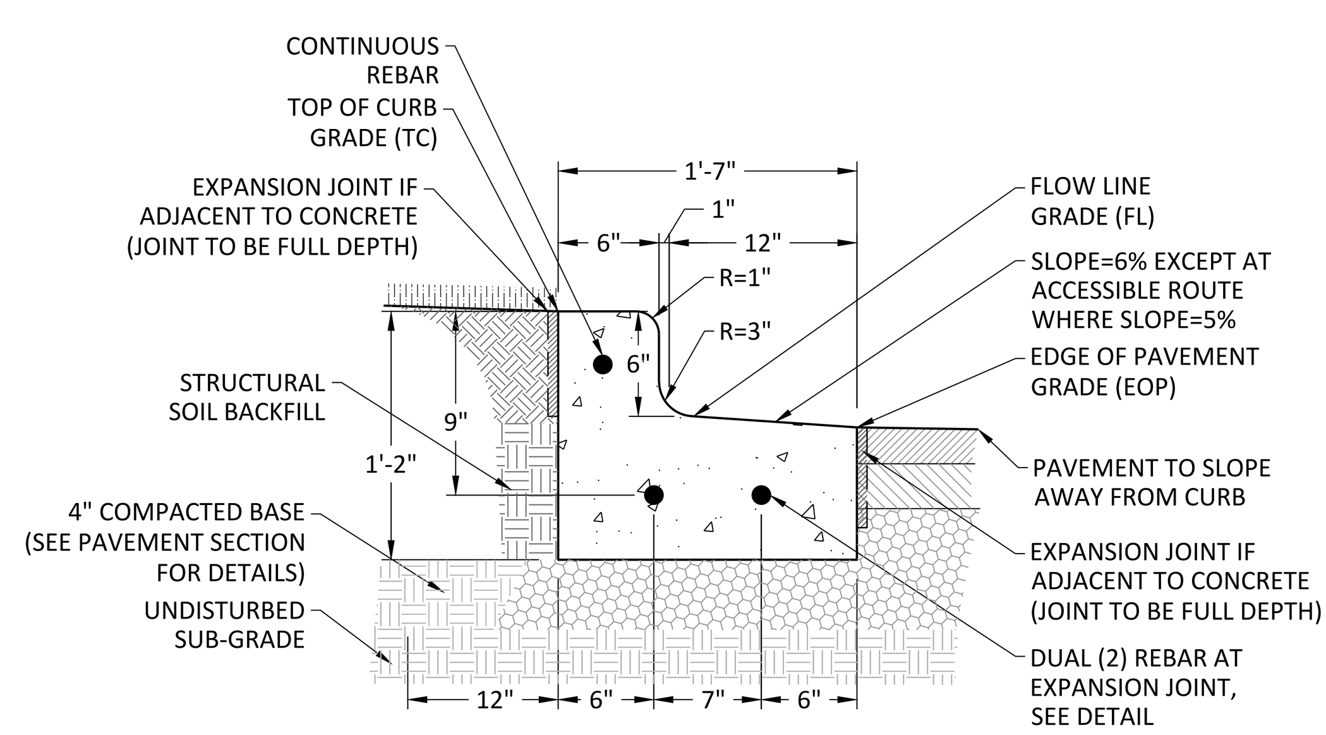
NOT TO SCALE



1. USE STNDARD PITCH GUTTERS WHERE WATER IS DIVERTED TOWARD CURB.
2. LONGITUDINAL SLOPE SHALL BE 0.50% MIN.
3. PROVIDE EXPANSION JOINTS AT ALL POINT OF CURVATURE, AT 10' ON EITHER SIDE OF UTILITY TRENCHES OR STRUCTURES AND AT A DISTANCE NOT TO EXCEED 50'
4. PROVIDE HAND TOOLED CONTRACTION JOINTS IN BETWEEN EXPANSION JOINTS AT DISTANCES NOT TO EXCEED 20'
5. PROVIDE LIGHT BROOM FINISH IN DIRECTION OF FLOW.

COMBINATION CONCRETE CURB AND GUTTER - STANDARD PITCH

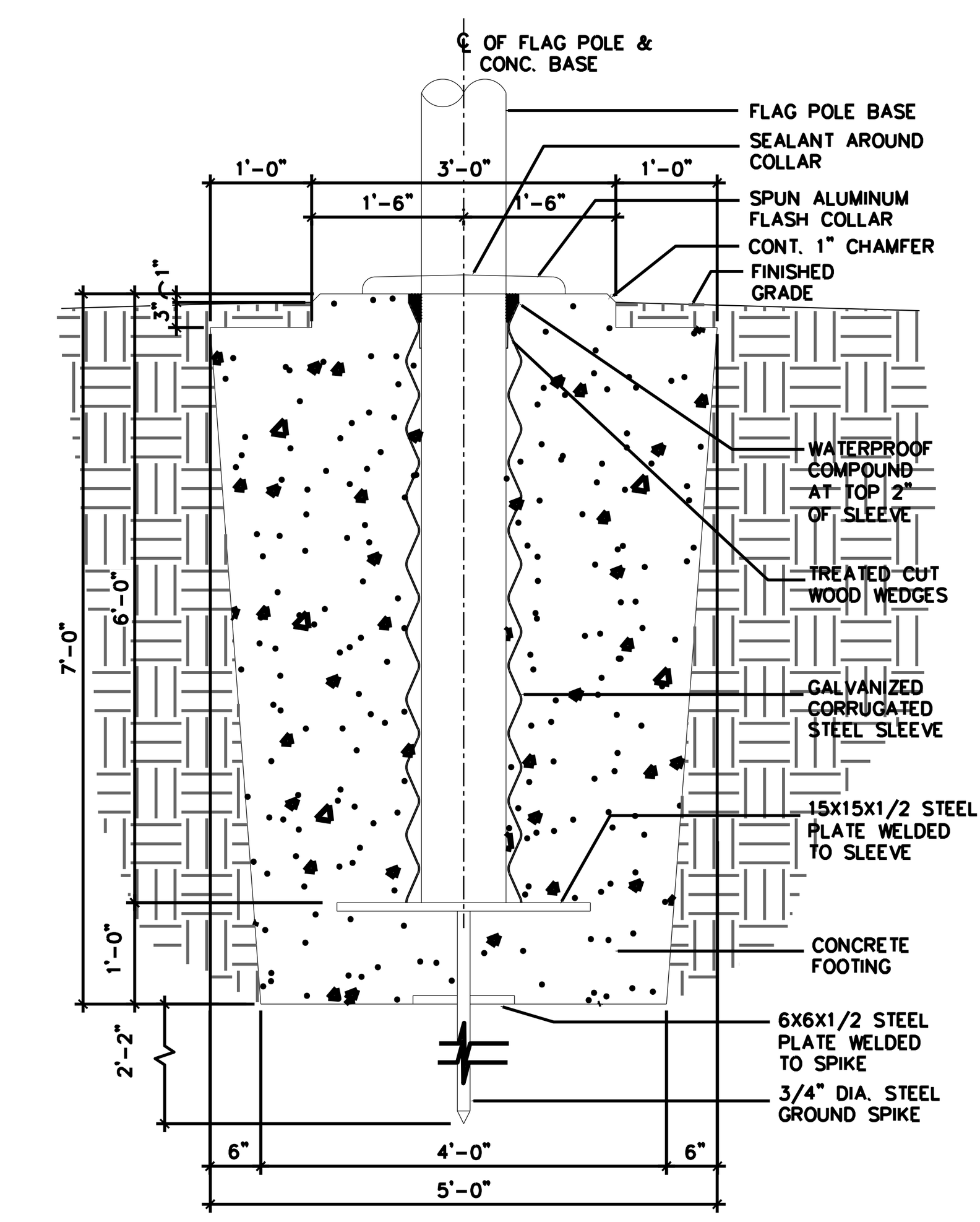
NOT TO SCALE



1. USE REVERSED PITCH GUTTERS WHERE WATER IS DIVERTED AWAY FROM CURB.
2. PROVIDE EXPANSION JOINTS AT ALL POINT OF CURVATURE, AT 10' ON EITHER SIDE OF UTILITY TRENCHES OR STRUCTURES AND AT A DISTANCE NOT TO EXCEED 50'
3. PROVIDE HAND TOOLED CONTRACTION JOINTS IN BETWEEN EXPANSION JOINTS AT DISTANCES NOT TO EXCEED 20'
4. PROVIDE LIGHT BROOM FINISH IN DIRECTION OF FLOW.

COMBINATION CONCRETE CURB AND GUTTER - REVERSE PITCH

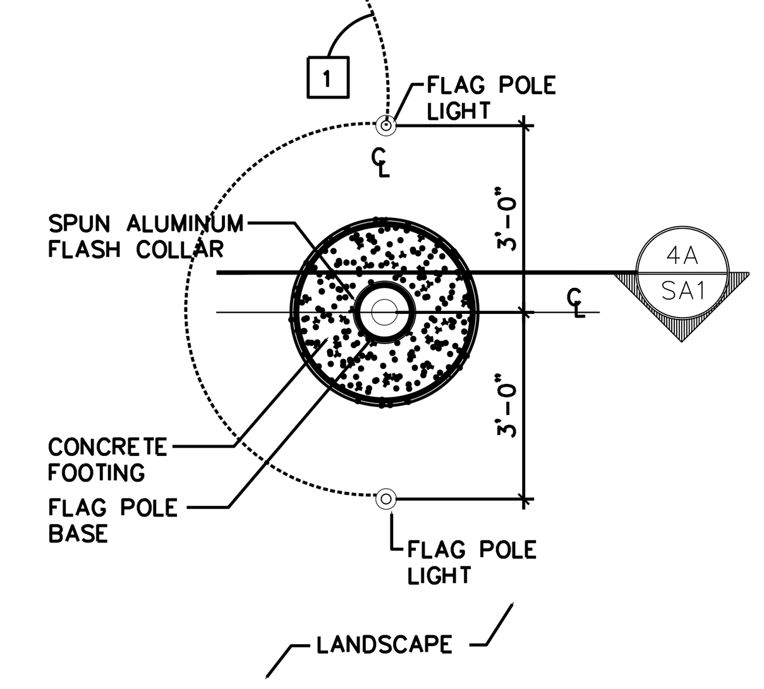
NOT TO SCALE



FLAG POLE BASE DETAIL

NOT TO SCALE

CONCORD INDUSTRIES FLAG POLE SPECIFICATIONS						
EXPOSED HEIGHT (feet)	SHAFT DIAMETER (inch)	MAXIMUM WALL THICKNESS (inch)	MAXIMUM UNFLAGGED WINDSPEED (mph)	RECOMMENDED FLAG SIZE (feet)	FLAGGED WINDSPEED (mph)	CONCORD CONTINENTAL CATALOG PART NUMBER
35'-0"	7	.156	165	6X10	110	ESR35C71-ACL



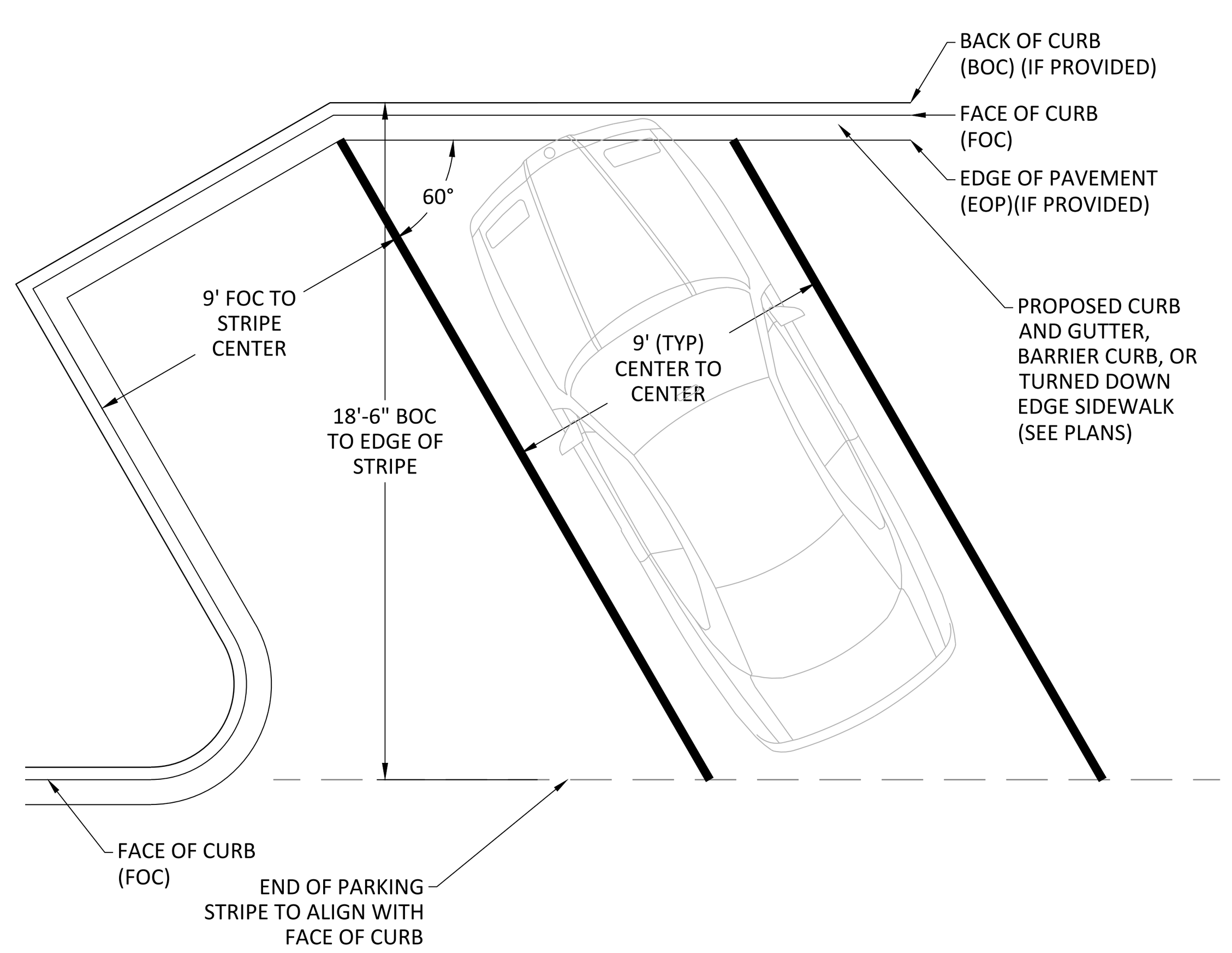
LIGHT FIXTURES:
KICHLER - 120V LED 29W 10 DEG. S 42K AZT MODEL NO. 16204AZT42 (TEXTURED ARCHITECTURAL BRONZE)

LIGHT FIXTURES STAKE:
KICHLER - ACCESSORY STAKE 120V - MODEL NO. 15276BK (BLACK (PAINTED)

1 ROUTE CIRCUIT TO PANEL INDICATED VIA 120V PHOTCELL. LOCATE PHOTOCELL ON ROOF OF BUILDING FACING NORTH.

FLAG POLE PLAN VIEW

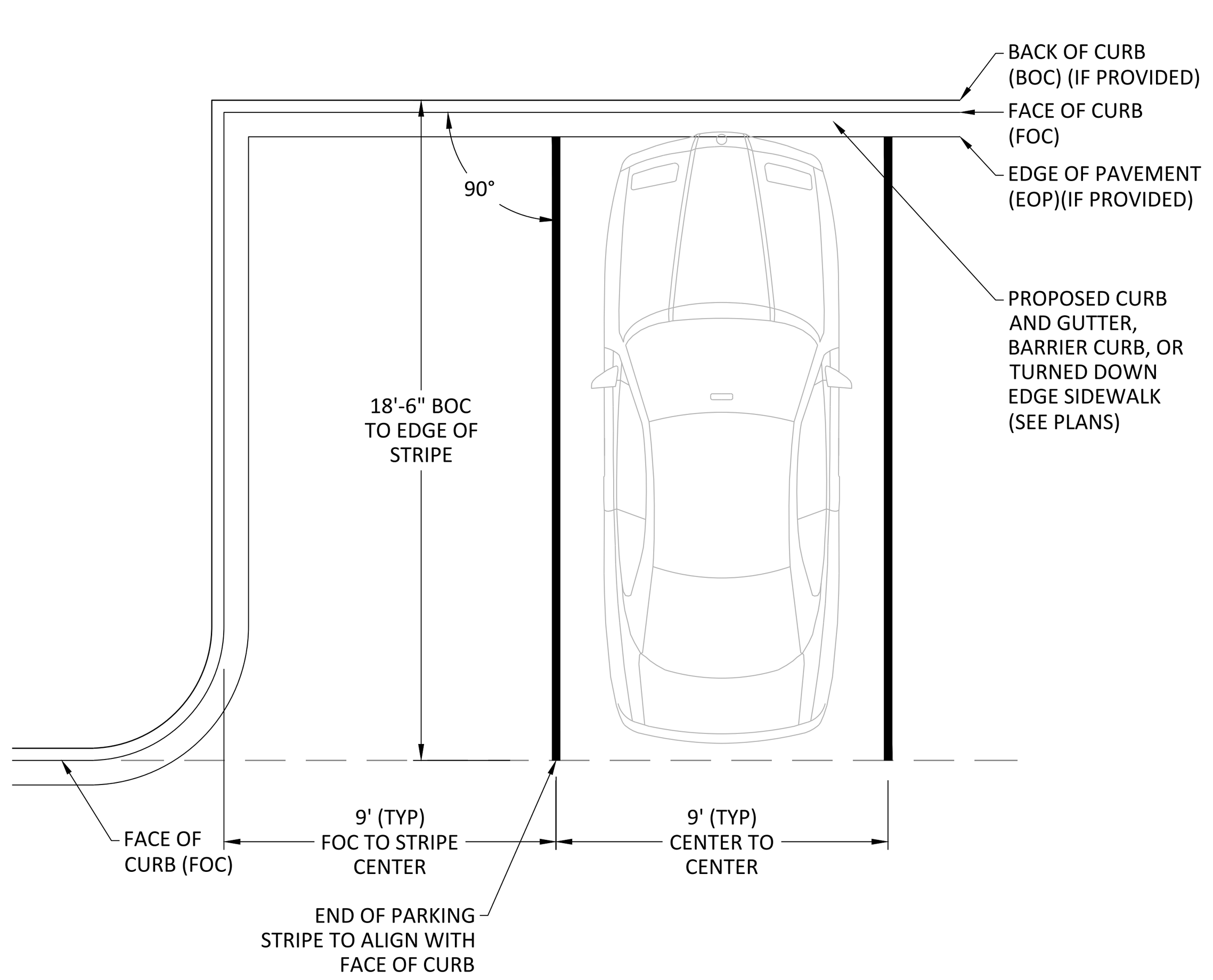
NOT TO SCALE



1. ALL STRIPING SHALL BE DOUBLE COATED YELLOW PAVEMENT PAINT

PARKING STALL STRIPING - 60 DEGREE

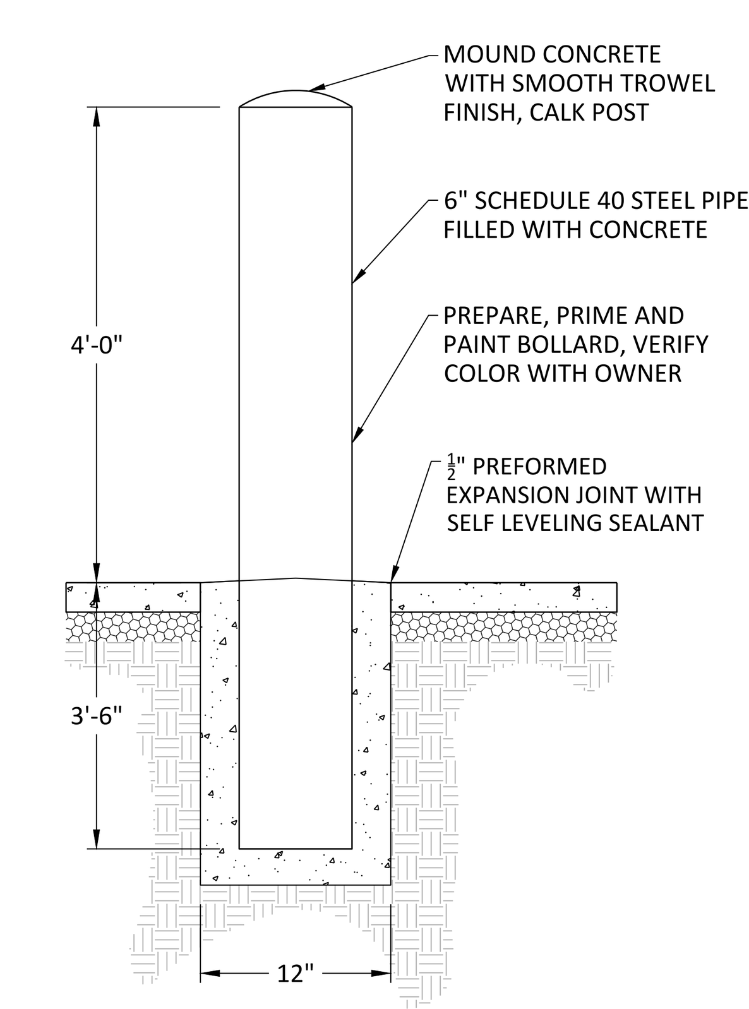
NOT TO SCALE



1. ALL STRIPING SHALL BE DOUBLE COATED YELLOW PAVEMENT PAINT

PARKING STALL STRIPING - 90 DEGREE

NOT TO SCALE



1. SEE PLANS FOR LOCATIONS AND QUANTITIES.

BOLLARD - 6"

NOT TO SCALE

MUNICIPAL/AGENCY APPROVAL STAMP

FREDDY'S - NAPERVILLE
1967 GLACIER PARK AVENUE
NAPERVILLE, IL 60540

PROJECT DETAILS 1

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NAPERVILLE, ILLINOIS 60563
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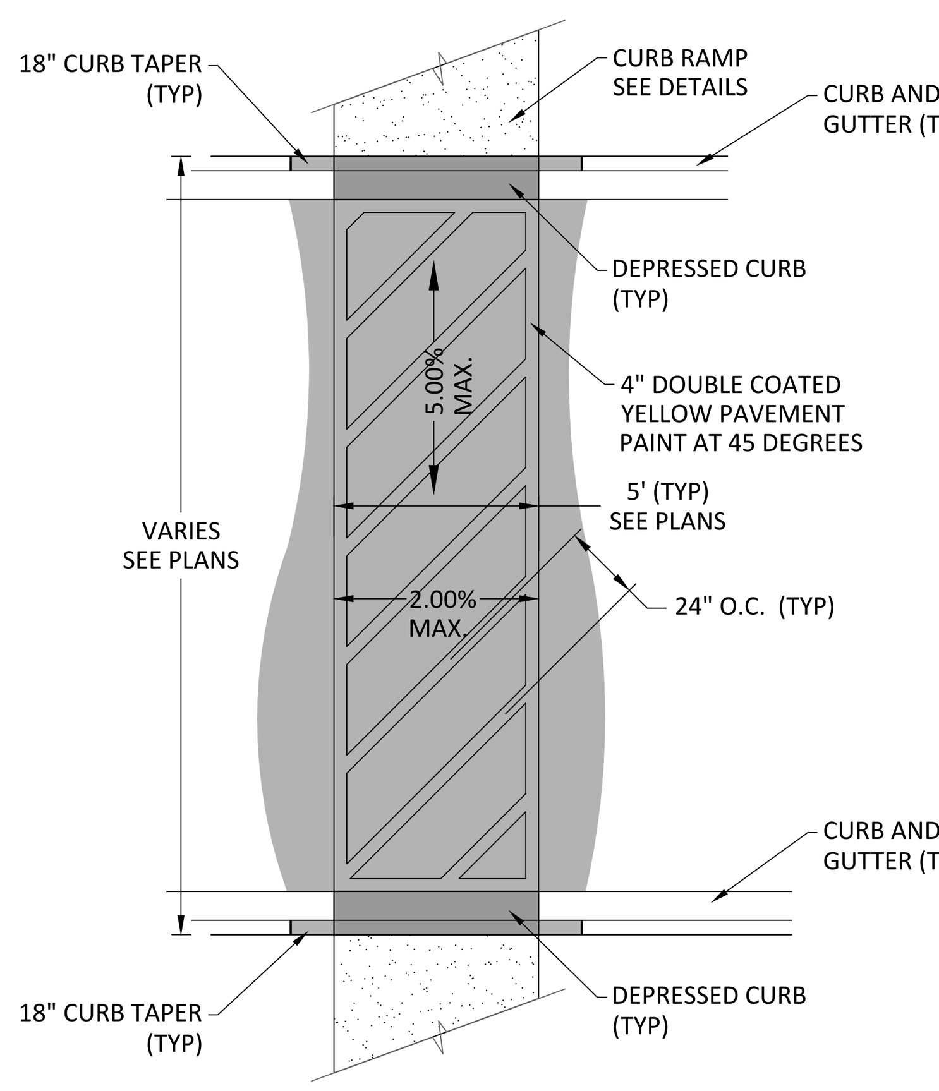
wcgrp.com

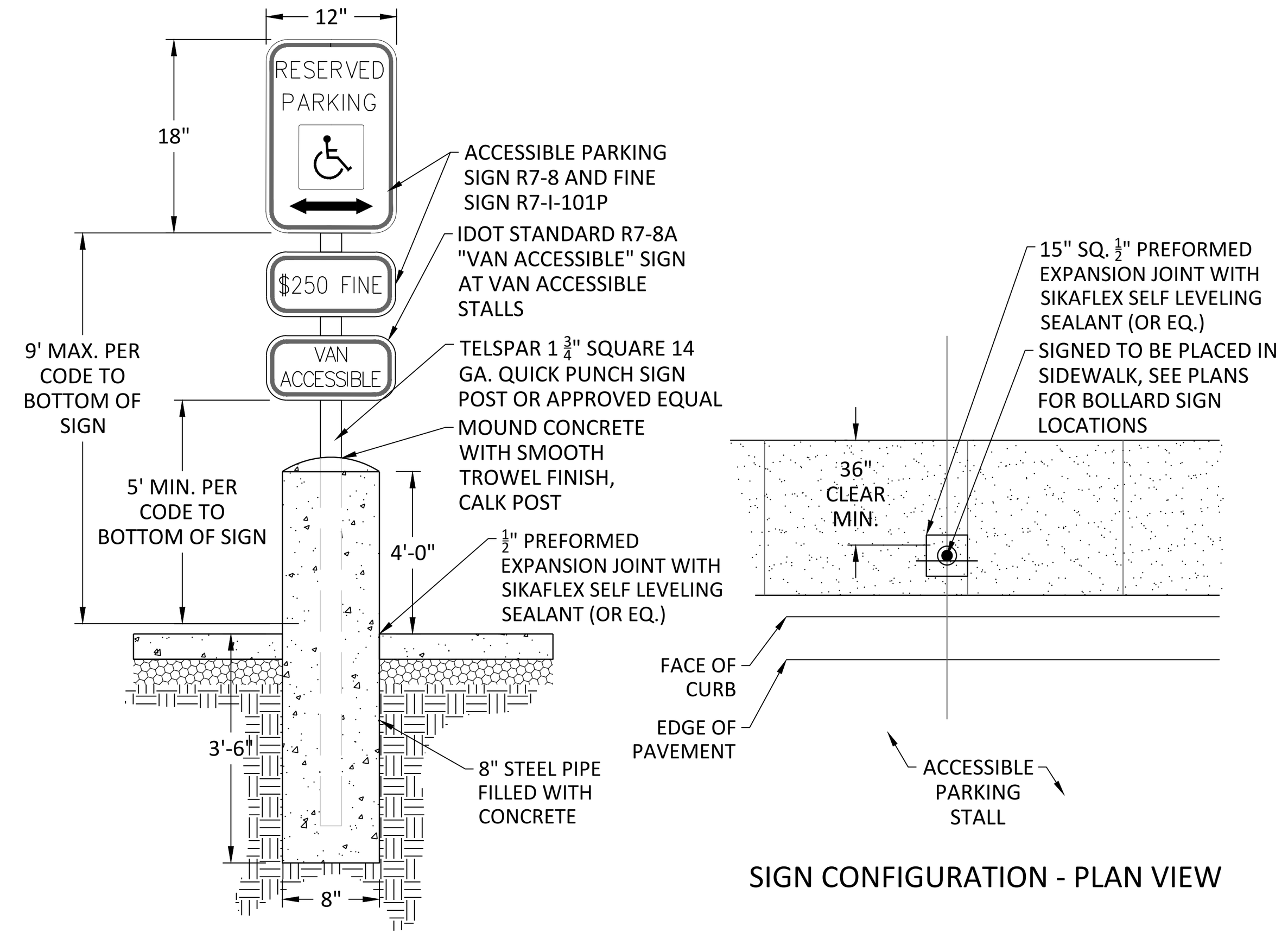
SHEET #:
C-10



1. ALL STRIPING SHALL BE DOUBLE COATED YELLOW PAVEMENT PAINT

ACCESSIBLE CROSSWALK

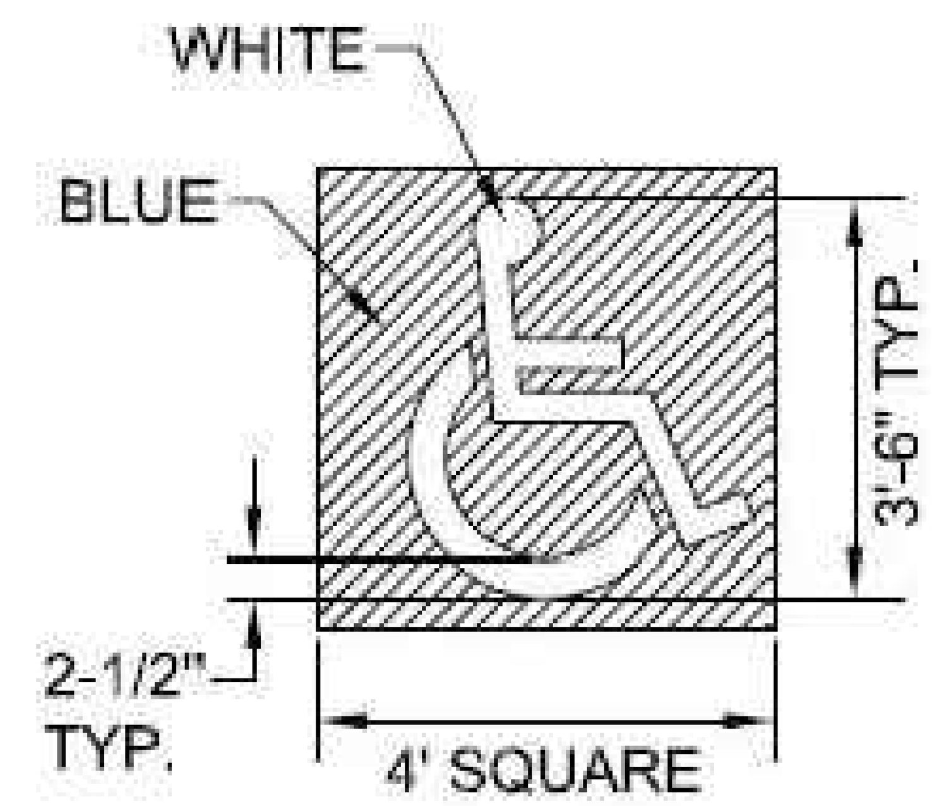
NOT TO SCALE



1. SIGNS SHALL BE VERTICALLY MOUNTED ON A POST OR WALL AT FRONT CENTER OF THE PARKING SPACE, NO MORE THAN 5 FEET HORIZONTALLY FROM THE FRONT OF THE PARKING SPACE.
2. FOR EVERY 6 ACCESSIBLE STALLS (OR FRACTION THEREOF) AT LEAST ONE STALL SHALL BE VAN ACCESSIBLE INCLUDING THE "VAN ACCESSIBLE" SIGN.

ACCESSIBLE PARKING SIGN AT STALL IN SIDEWALK

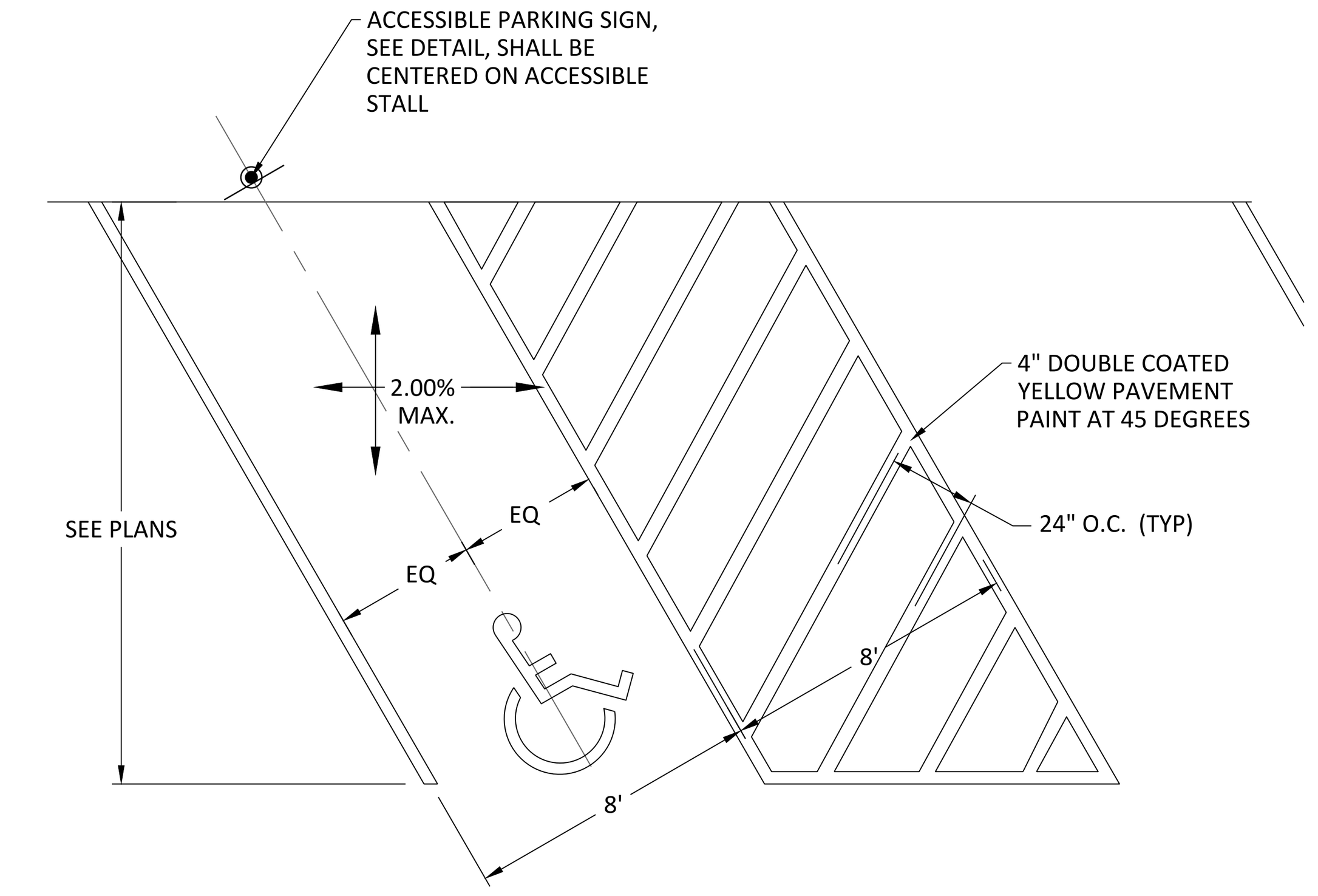
NOT TO SCALE



ACCESSIBLE SYMBOL LINES SHALL BE WHITE.

ACCESIBLE PARKING STALL PAVEMENT SYMBOL

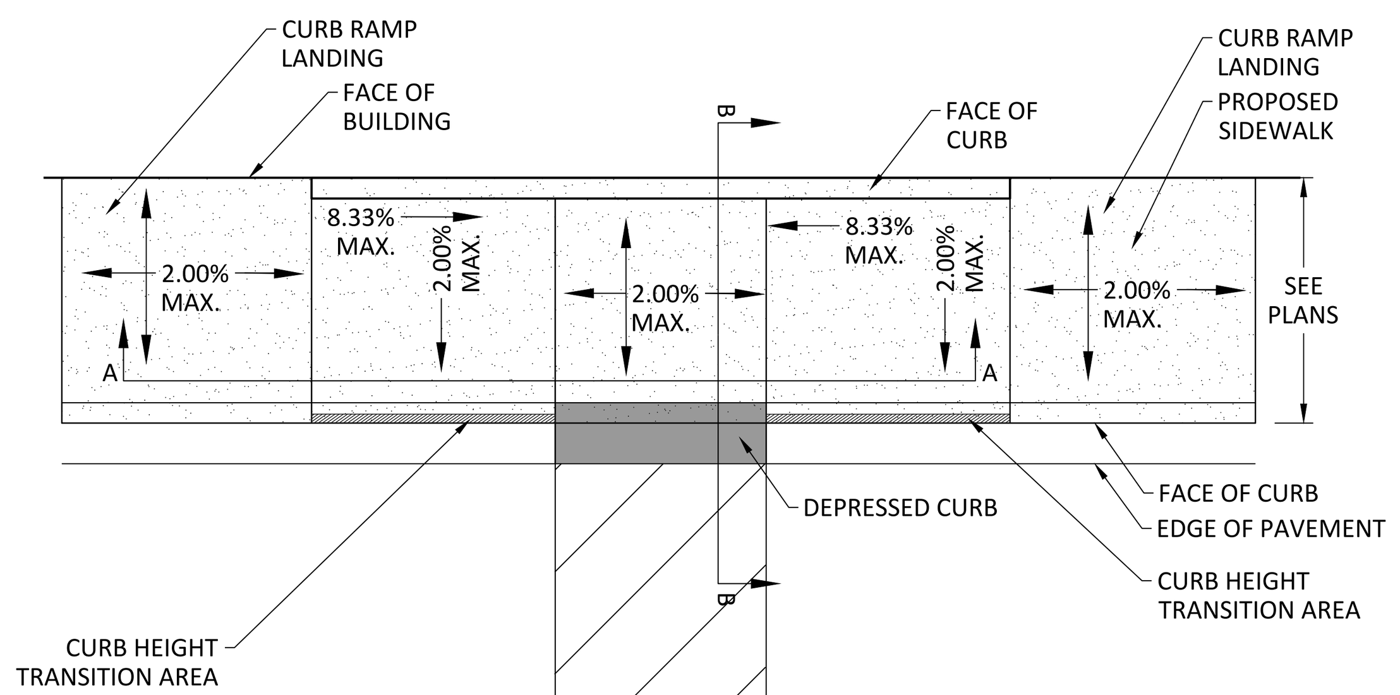
NOT TO SCALE



1. SIGNS SHALL BE VERTICALLY MOUNTED ON A POST OR WALL AT FRONT CENTER OF THE PARKING SPACE, NO MORE THAN 5 FEET HORIZONTALLY FROM THE FRONT OF THE PARKING SPACE.
2. ACCESSIBLE PARKING STALLS SLOPES NOT TO EXCEED 2.00% IN ANY DIRECTION.
3. IN THE STATE OF ILLINOIS, DIAGONAL PARKING SPACES SHALL NOT SHARE AN ACCESS AISLE. ACCESS AISLES SERVING DIAGONAL PARKING SPACES SHALL BE LOCATED ON THE PASSENGER SIDE OF THE VEHICLE SPACE.

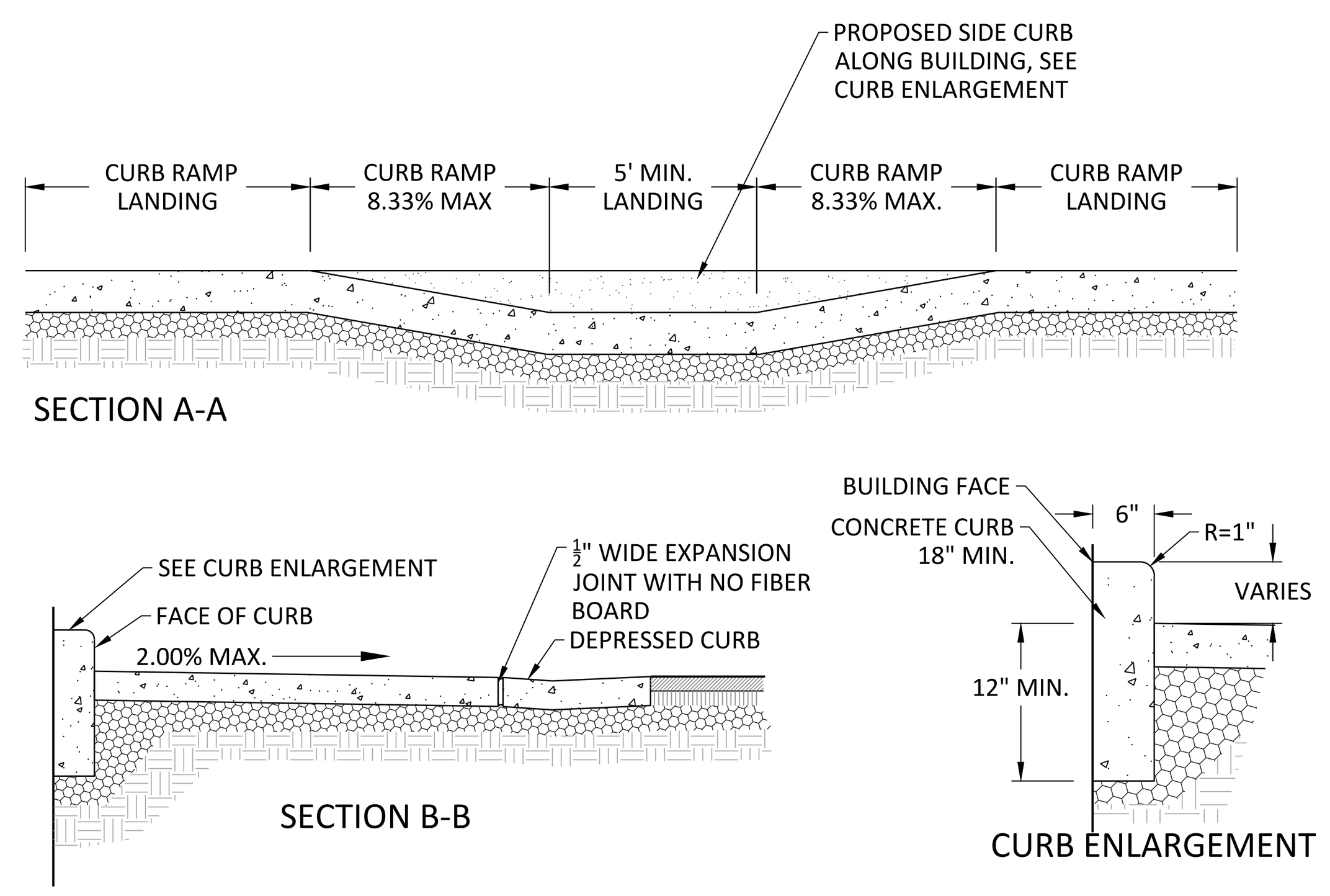
ACCESSIBLE PARKING STALL - 60 DEG 8' x 8'

NOT TO SCALE

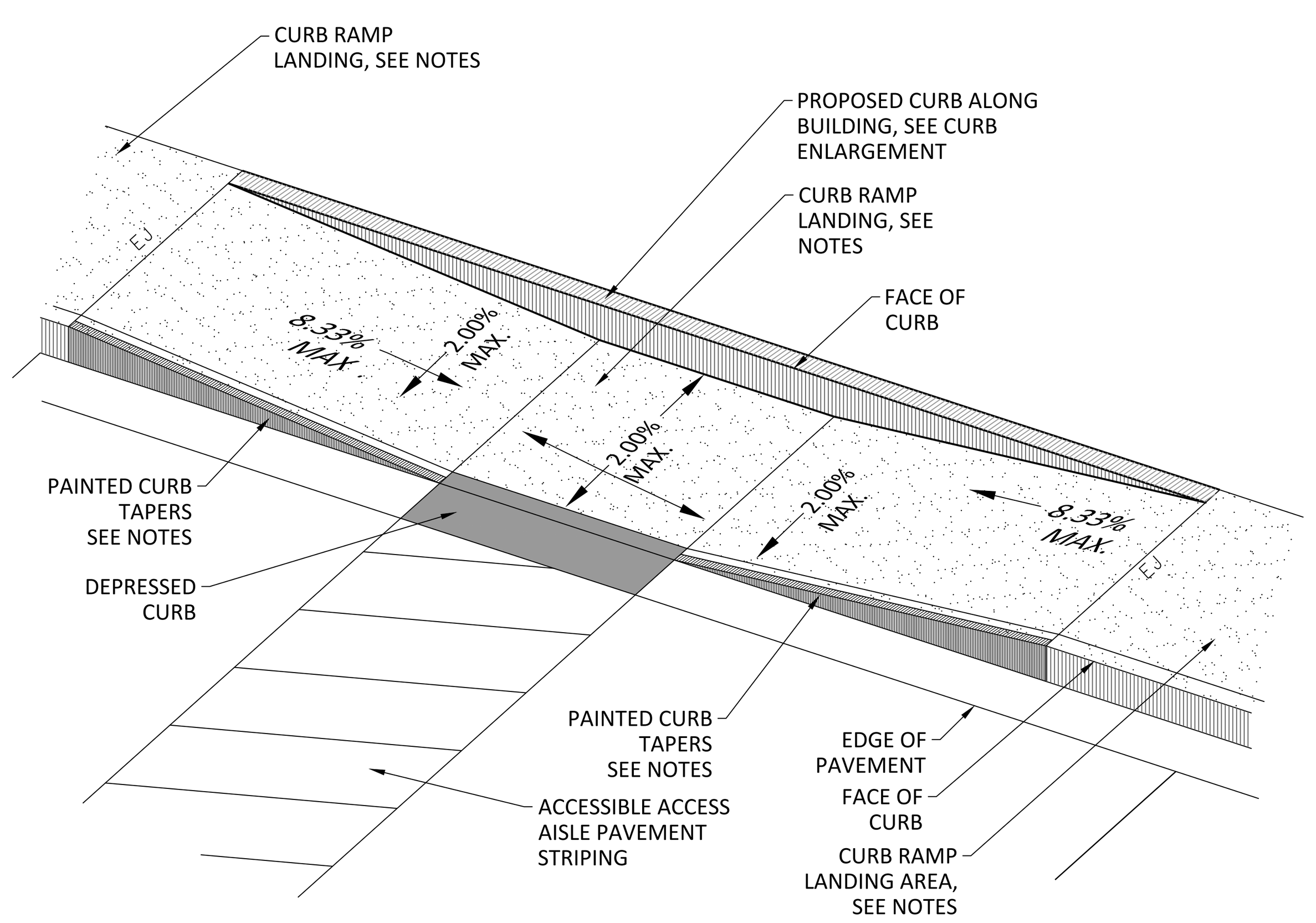


1. SEE PAVEMENT SECTIONS FOR DETAILS.
2. SEE PLANS FOR SIDEWALK WIDTHS.
3. IN NO CASE SHALL THE ACCESSIBLE PATH BE LESS THAN 36", ALL LANDING SHALL BE 60"x60" MIN.

ON-SITE PARALLEL CURB RAMP - PLAN VIEW



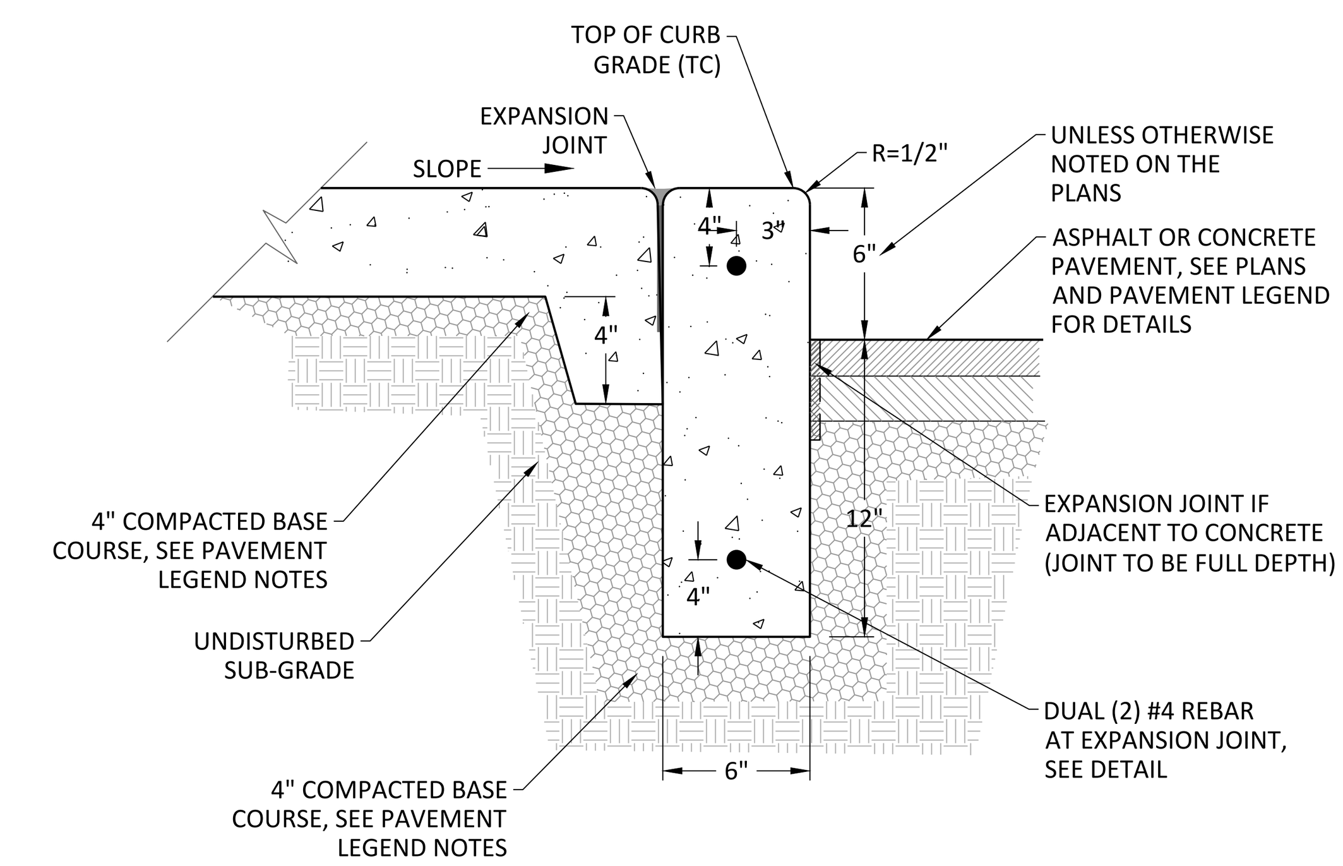
ON-SITE PARALLEL CURB RAMP SECTIONS



1. 60"X60" LANDINGS AREA SHALL BE PROVIDED AT THE TOP AND BOTTOM OF CURB RAMPS, LANDINGS SHALL NOT EXCEED 2.00% SLOPE IN ANY DIRECTIONS.
2. CURB TAPERS SHALL BE PAINTED WITH YELLOW PAVEMENT PAINT ON FACE AND 2" ON TOP OF CURB.

ON-SITE PARALLEL CURB RAMP ISOMETRIC

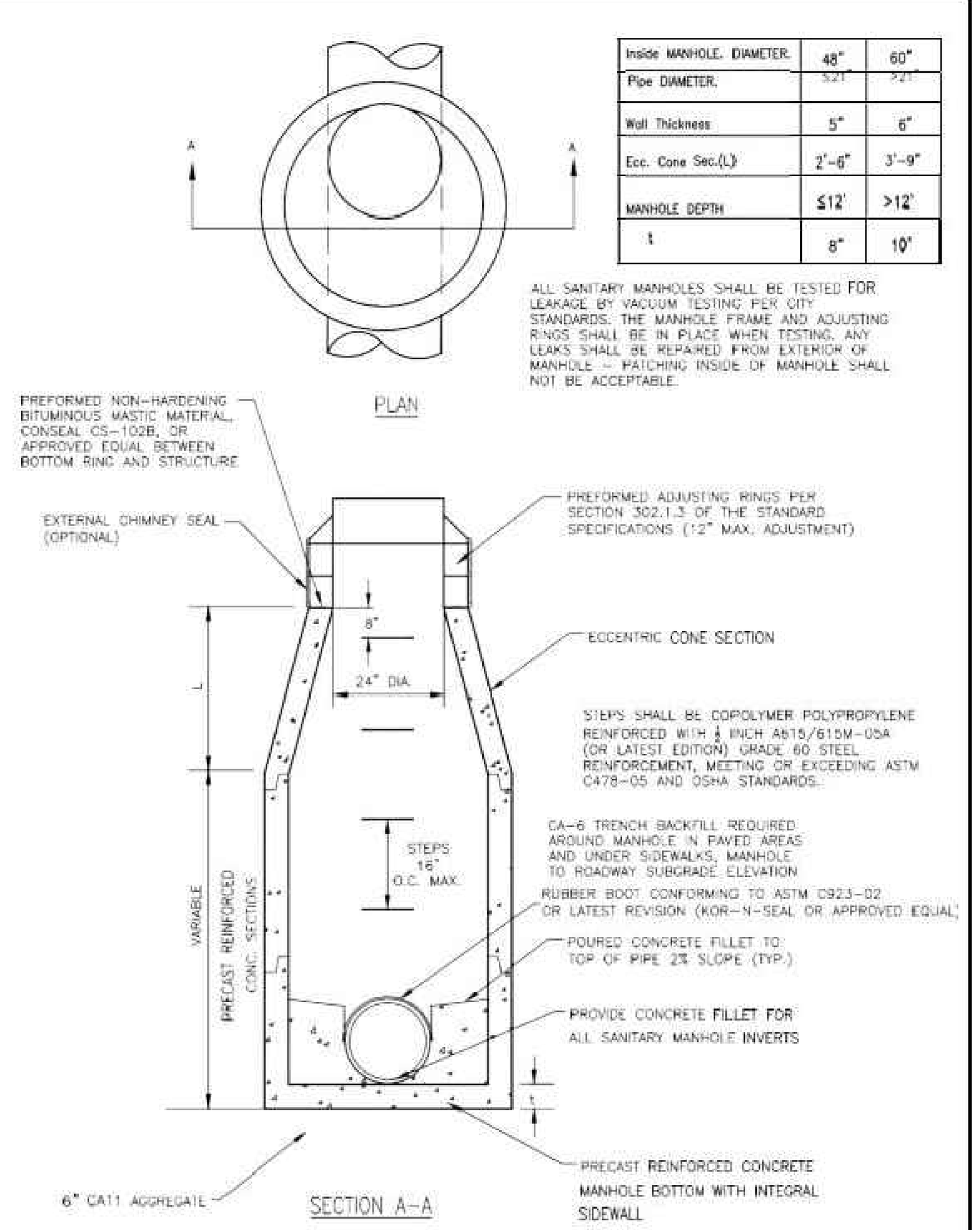
NOT TO SCALE



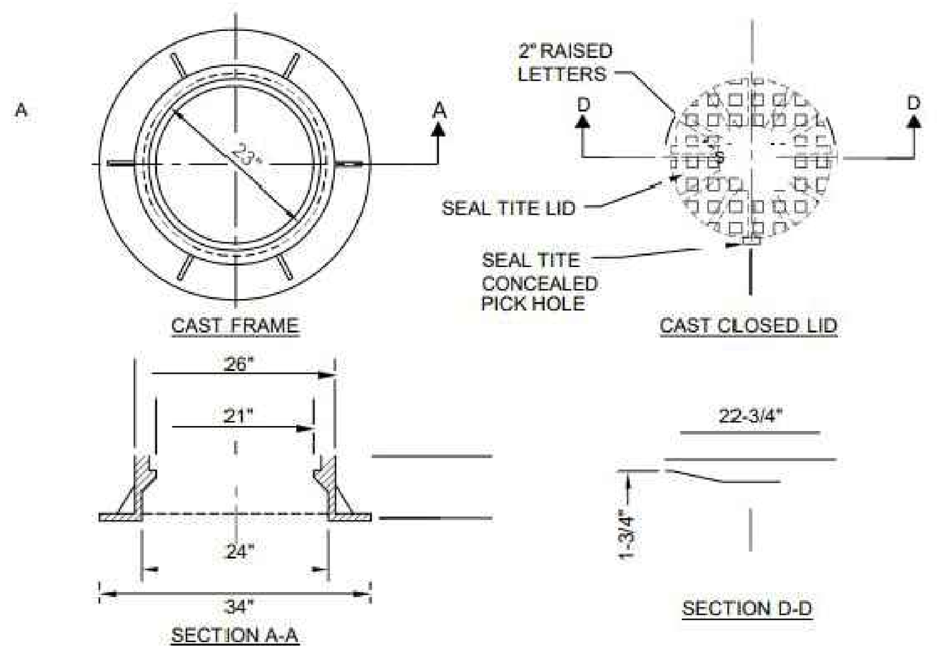
1. SEE PLANS FOR LOCATIONS.

BARRIER CURB AT PAVEMENT

NOT TO SCALE



City of Naperville STANDARD DETAIL	SANITARY SEWER MANHOLE	SANITARY 1
	REVISED: 08/01/2018 — SHEET 1 OF 1	390.01



NOTES:

1) DUCTILE IRON SHALL BE GRADE 65-45-12 AND SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.

2) ALL FRAMES AND COVERS SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES SHALL NOT CREATE OPENINGS IN THE COVER.

3) THE MANHOLE COVERS SHALL HAVE 2" RAISED LETTERS AS SHOWN.

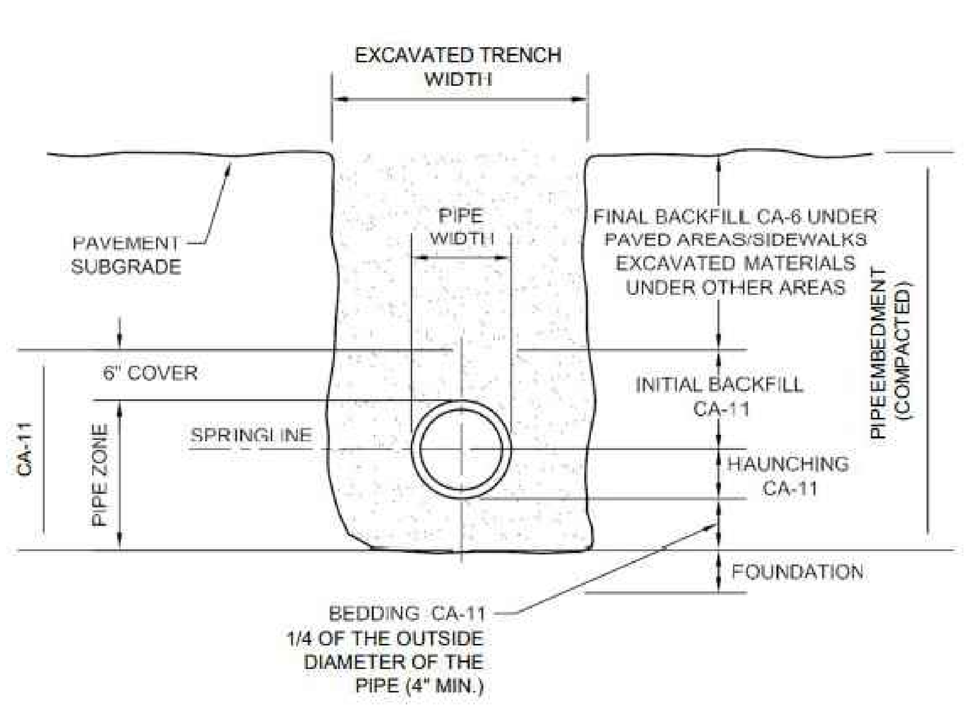
4) ALTERNATIVE TO DUCTILE IRON LID, GREY IRON CL 35 LID MAY BE USED.

5) CASTINGS ARE SHALL BE EAST JORDAN 1022-Z3; NEENAH R-1772 OR APPROVED EQUAL.

6) WATERPROOF, BOLTDOWN FRAME AND COVER SHALL BE USED IN FLOOD PLAIN AREA, AND AS NOTED ON THE PLANS. NEENAH R-1916-F1, EAST JORDAN IRON WORKS 1022-Z1PT OR APPROVED EQUAL.

7. LIDS AND FRAMES TO MEET ASSHTO M306 PROOF LOADING SPECIFICATIONS

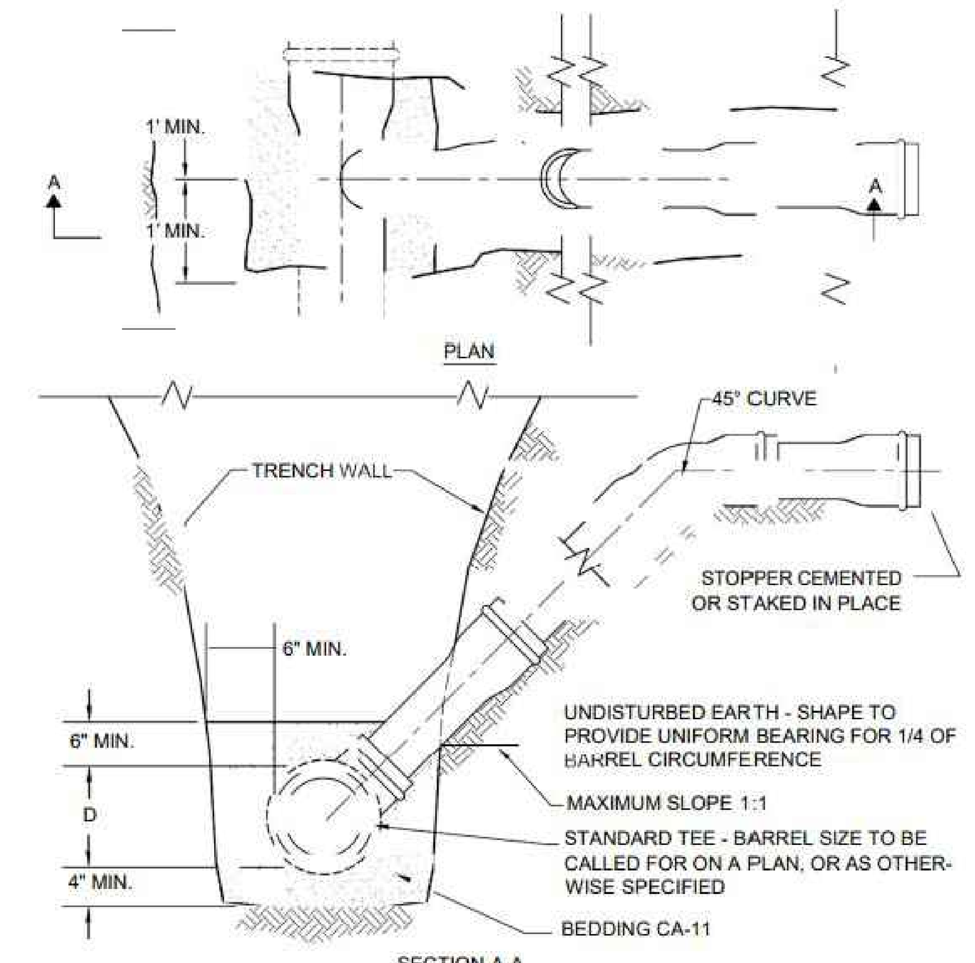
City of Napervil1e STANDARD DETAIL	sANiTARY MANHOLE - FRAME & GOVER	SANITARY 6
	REVISED. 01/01/2013 — sHEET1 OF 1	390.O6



NOTES:

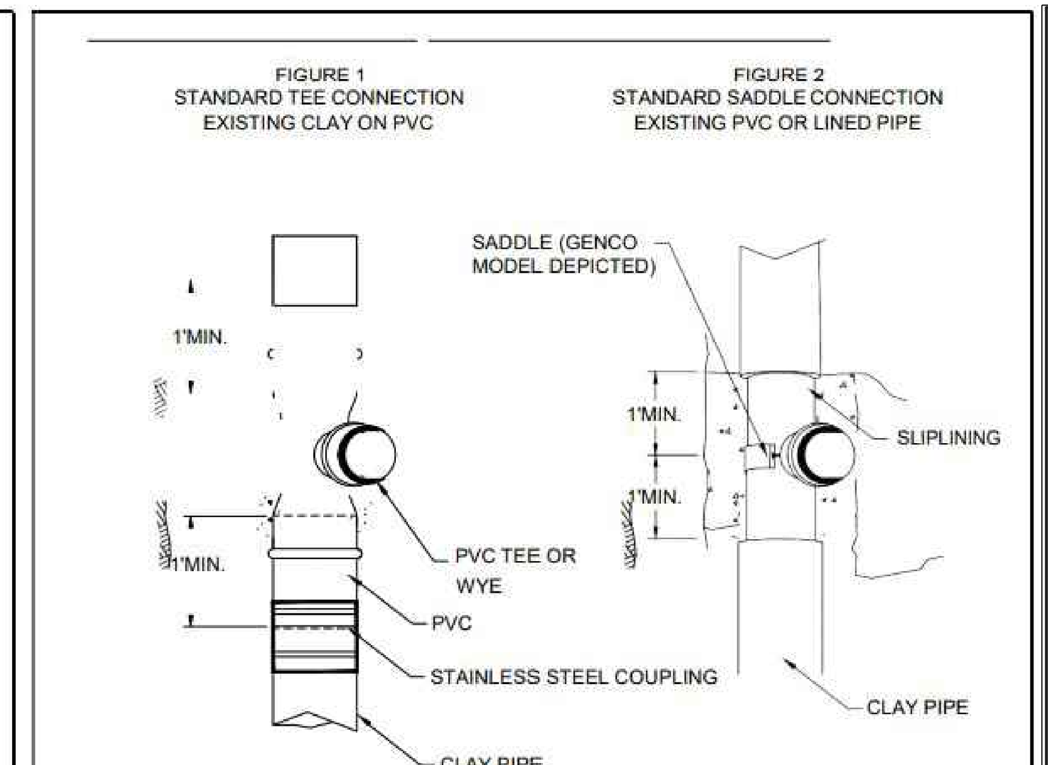
1. IN PAVED AREAS, ALL TRENCHES MUST BE COMPACTED IN CONFORMANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.
2. IF FOUNDATION IS UNSUITABLE TO BED PIPE, UNDERCUTS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

City of Naperville STANDAl|dD DETAIL	TRENCH SECTION FOR PVC PIPE	SANITARY 10
	REVISED: 01/01/2013 — SHEET 1 OF 1	390.10



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

City of Naperville STANDA1tD DETAIL	RISE FOR SERVICE LATERAL	SANITARY 20
	REVISED. 01/01/2013 — SHEET 1 OF 1	390.20



STANDARD TEE CONNECTION-FIGURE 1

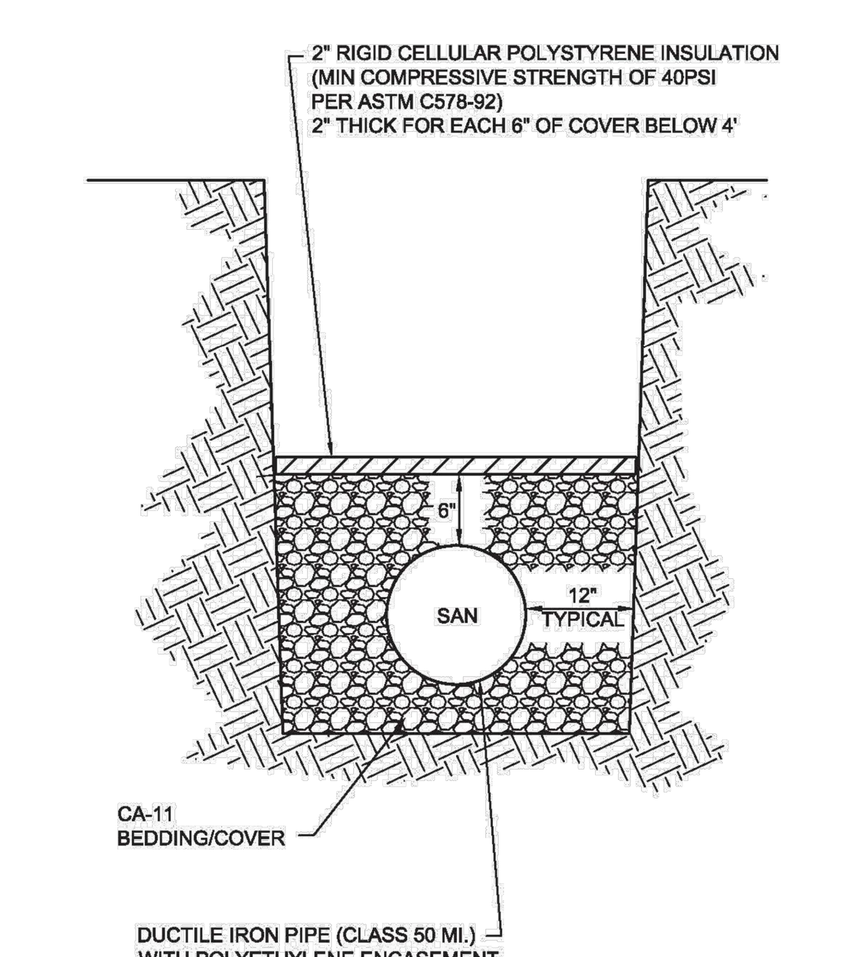
1. BYPASS OR RESTRICT FLOW IN PIPE AS REQUIRED.
2. SAW CUT AND REMOVE EXISTING PIPE TO MINIMUM EXTENT SHOWN IN FIGURE 1.
3. INSTALL STANDARD PVC TEE AND PIPE AS SHOWN, PVC SHALL BE SDR26, ASTM 2241.
4. FLEXIBLE COUPLING SHALL BE A NON-SHEARING TYPE TRANSITION COUPLING: FERNCO STRONG BACK RC 1000 SERIES,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

STANDARD SADDLE CONNECTION FIGURE 2

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

City of Naperville STANDARD DETAIL	SANITARY SEWER SERVICE CONNECTION	SANITARY 21
	REVISED: 08/01/2018 — SHEET 1 OF 1	390.21

THE INSTALLATION OF THIS APPLICATION MUST BE APPROVED IN WRITING BY THE DEPARTMENT OF PUBLIC UTILITIES WATER CIVIL ENVIRONMENTAL ENGINEERING DIVISION



City of Naperville STANDARD DETAIL	SANITARY SEWER PIPE INSULATION	SANITARY 22
	REVISED: 01/01/2013 — SHEET 1 OF 1	390.22

MUNICIPAL/AGENCY APPROVAL STAMP

Freddy's FROZEN CUSTARD & STEAKBURGERS®

FREDDY'S - NAPERVILLE

1967 GLACIER PARK AVENUE
NAPERVILLE, IL 60540

PROJECT DETAILS 2

NO.	DATE	REVISION DESCRIPTION	BY
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4	01/30/2023	PER CLIENT REVIEW	DG

DESIGNED BY:	DCG
REVIEWED BY:	BP
DATE:	09/01/2022
PRJ#:	5477-300-32-01

Weaver Consultants Group

OFFICE LOCATION:
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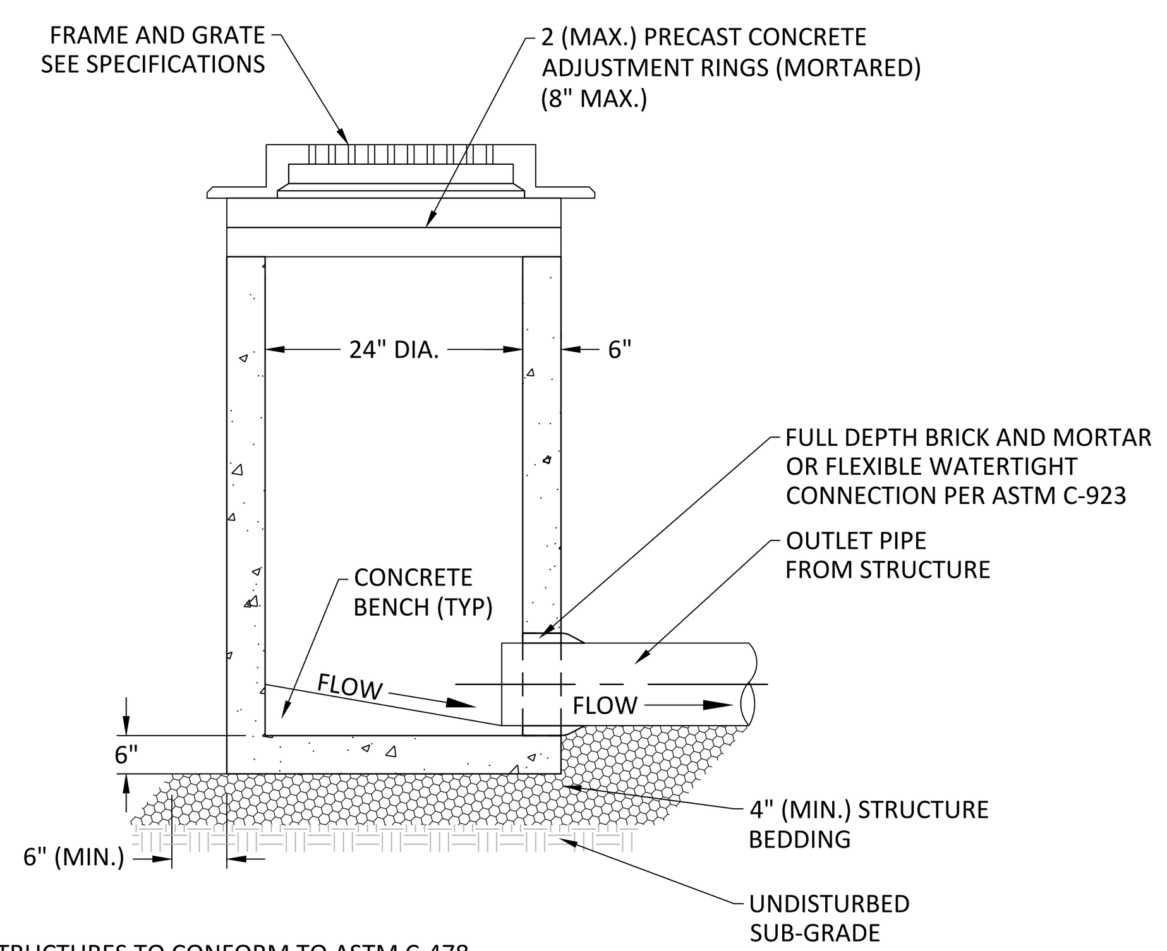
NAPERVILLE, ILLINOIS 60563
(630) 717-4848
wcgrp.com

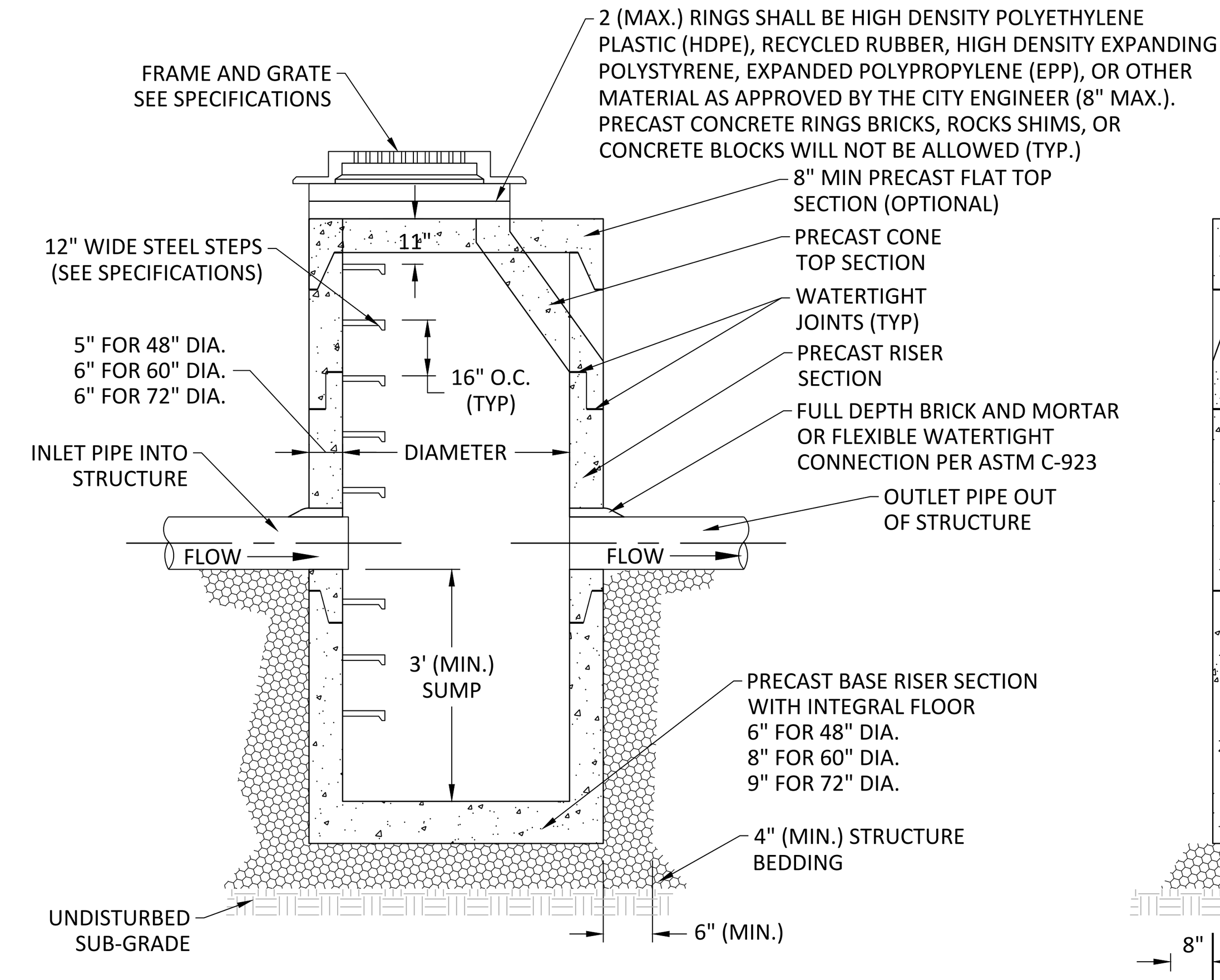
SHEET #: C-11



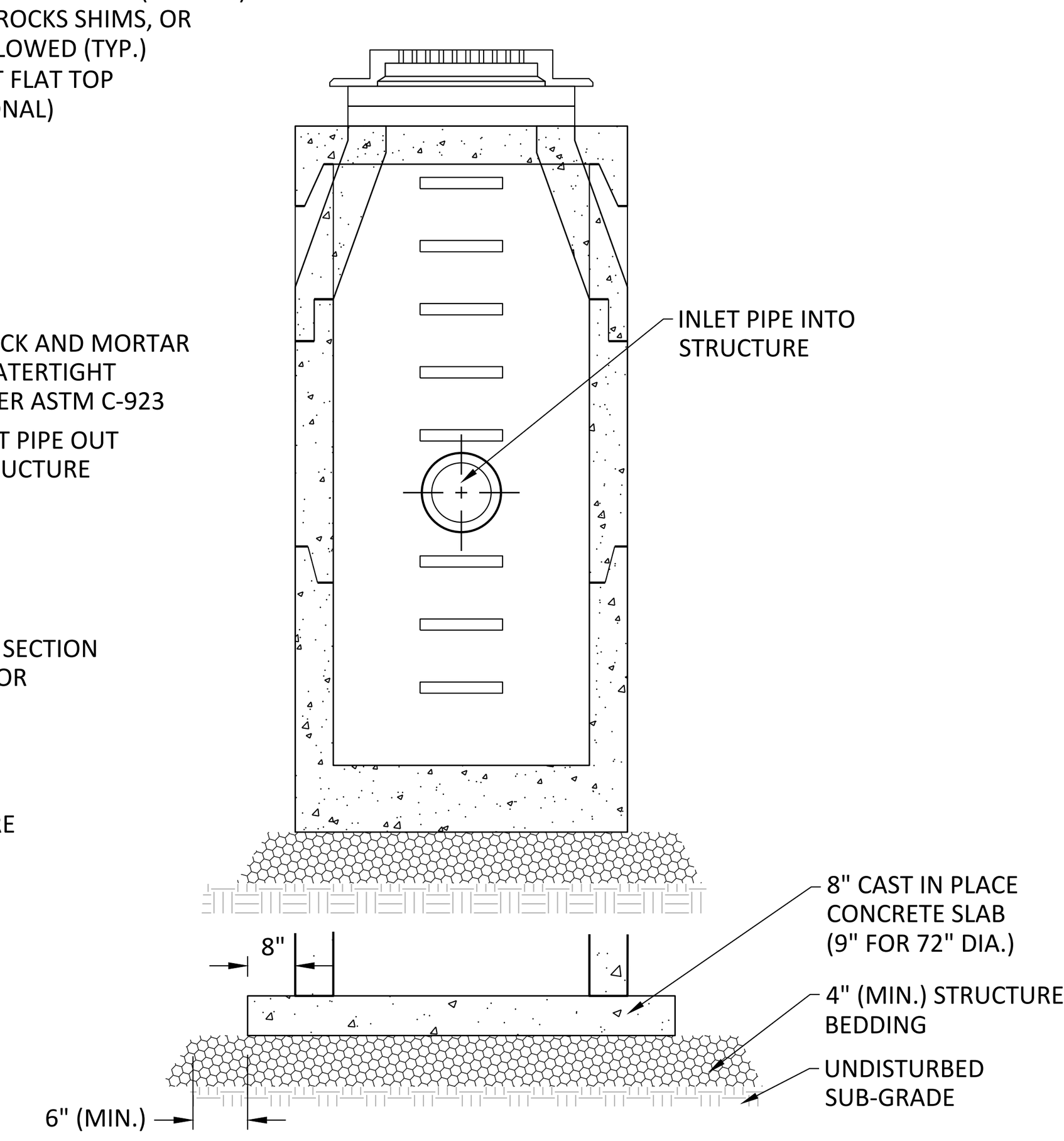
1. PRECAST STRUCTURES TO CONFORM TO ASTM C-478.
2. MAXIMUM DEPTH FROM INVERT OF OUTLET PIPE TO TOP OF PAVEMENT SHALL NOT EXCEED 42". IF DESIGN OR CONSTRUCTION REQUIRES DEPTH BEYOND 42", STRUCTURE SHALL BE REVISED TO A 48" DIAMETER TYPE A CATCH BASIN.
3. BENCHES MUST BE PROVIDED IN ALL INLETS.
4. NON-PRECAST OPENINGS SHALL BE CORED.
5. ALL PIPE CONNECTIONS SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.

TYPE A INLET

NOT TO SCALE



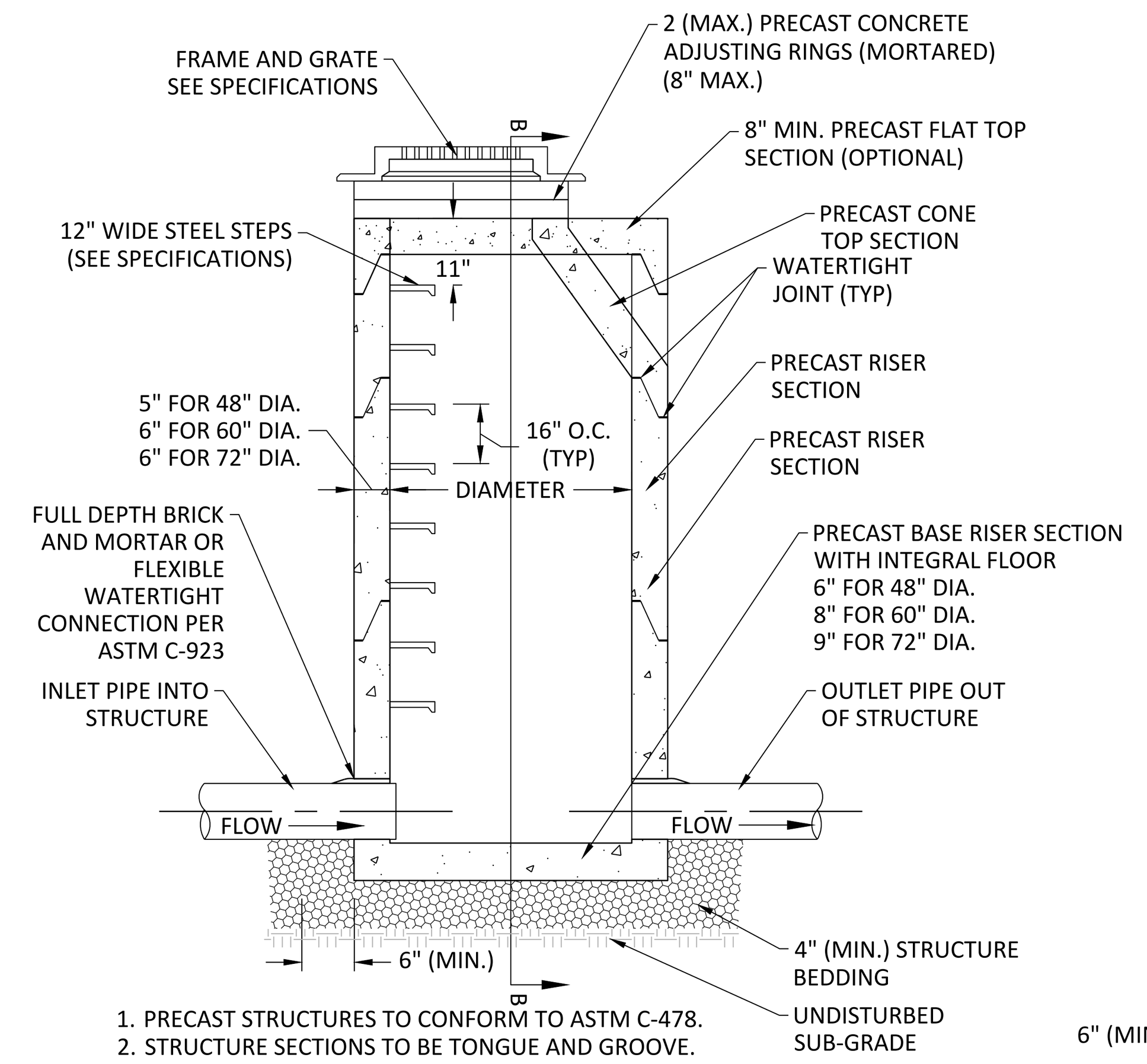
1. PRECAST STRUCTURES TO CONFORM TO ASTM C-478.
2. STRUCTURE SECTIONS TO BE TONGUE AND GROOVE.
3. NON-PRECAST OPENINGS SHALL BE CORED.
4. MORTAR ALL PIPE PENETRATIONS INSIDE AND OUTSIDE OF STRUCTURES.



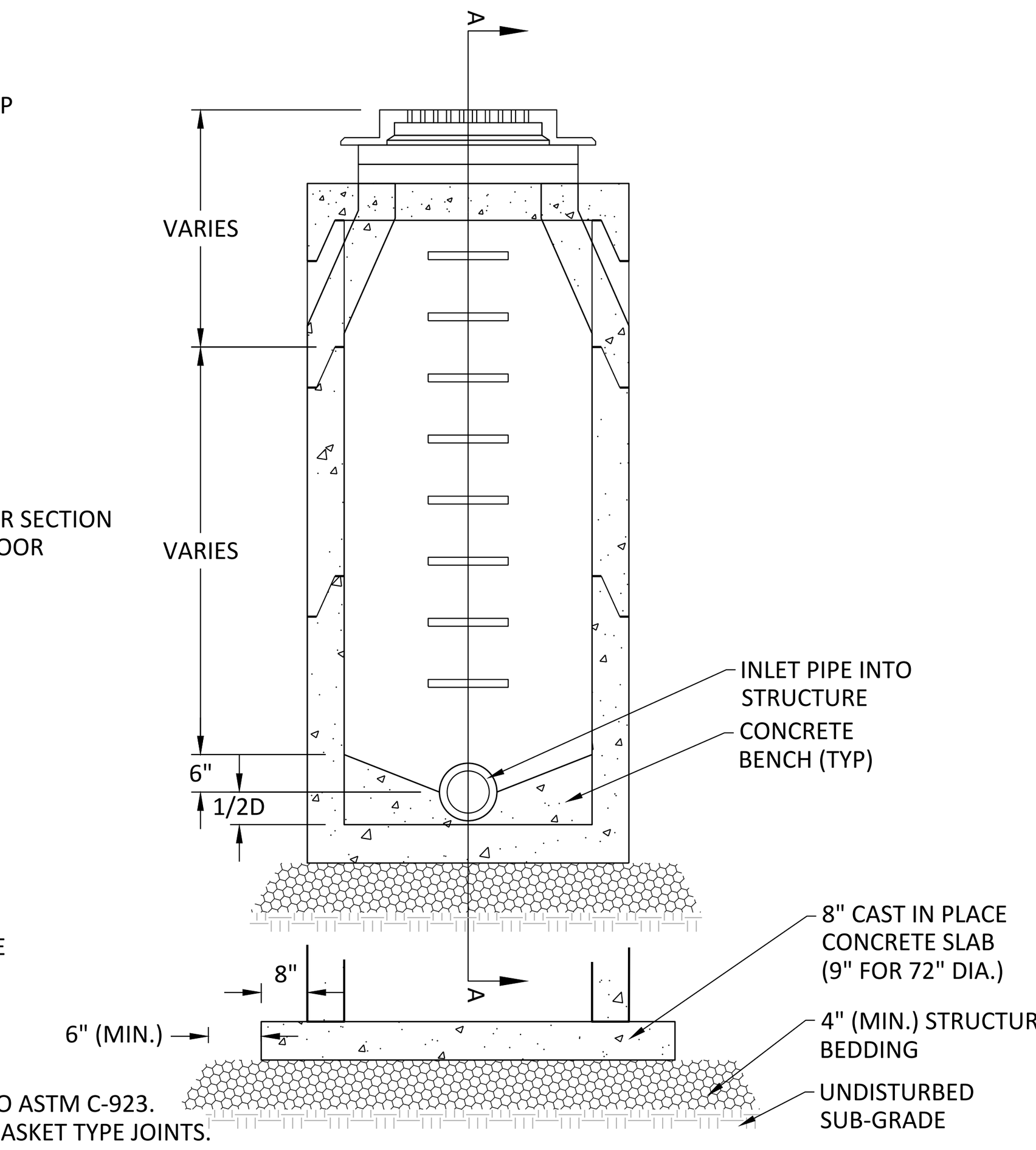
ALTERNATE BOTTOM SECTION

TYPE A STORM CATCH BASIN

NOT TO SCALE



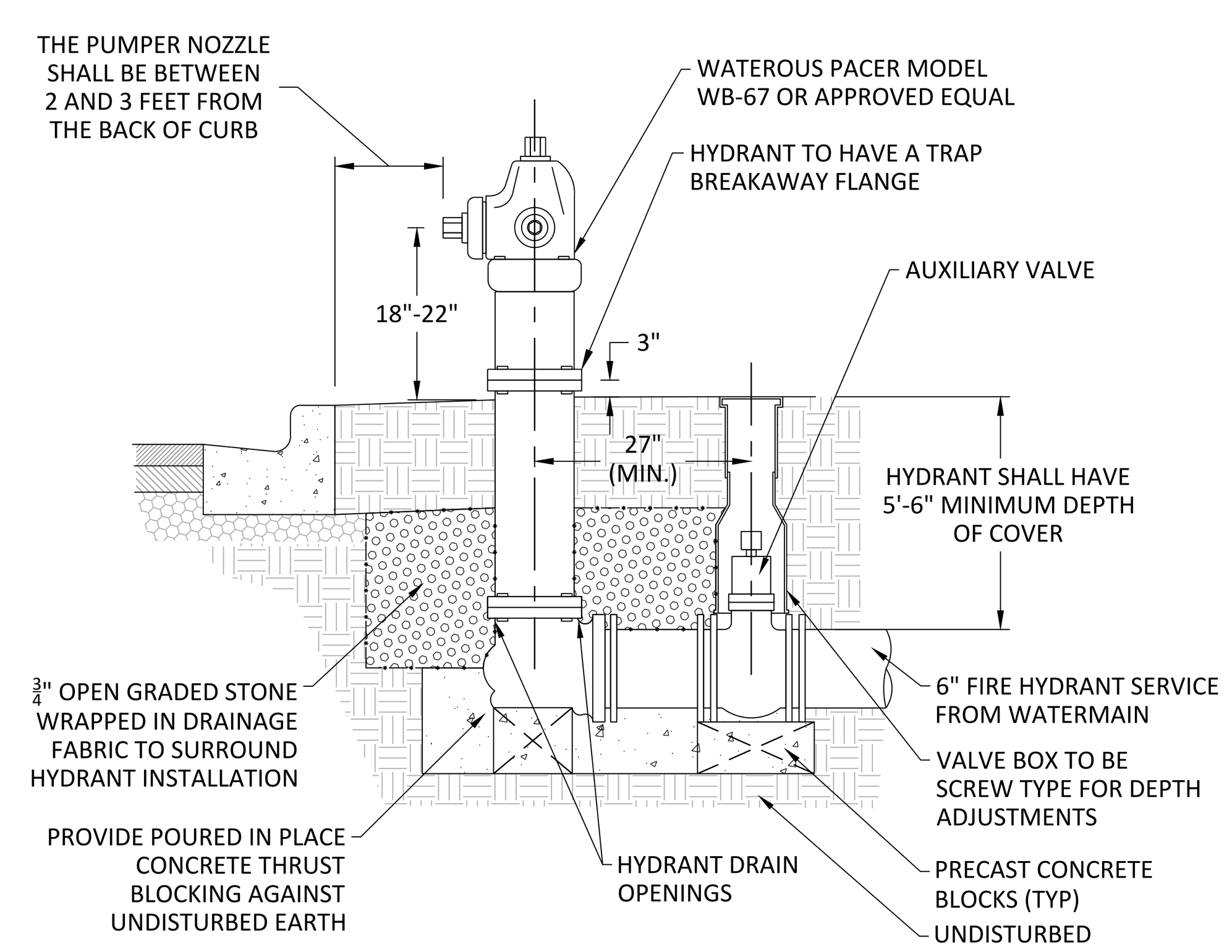
1. PRECAST STRUCTURES TO CONFORM TO ASTM C-478.
2. STRUCTURE SECTIONS TO BE TONGUE AND GROOVE.
3. NON-PRECAST OPENINGS SHALL BE CORED.
4. ALL PIPE CONNECTIONS SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.



ALTERNATE BOTTOM SECTION

TYPE A STORM MANHOLE

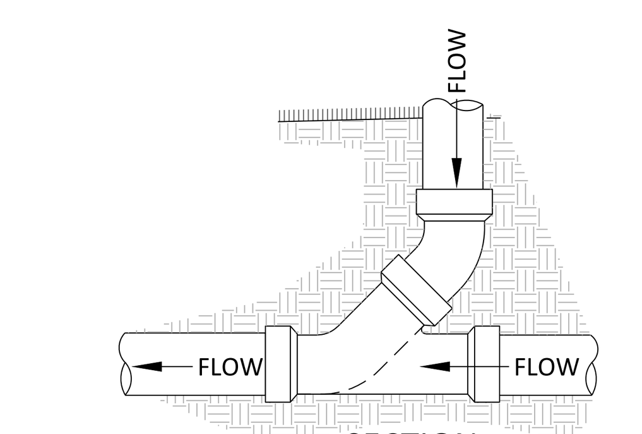
NOT TO SCALE



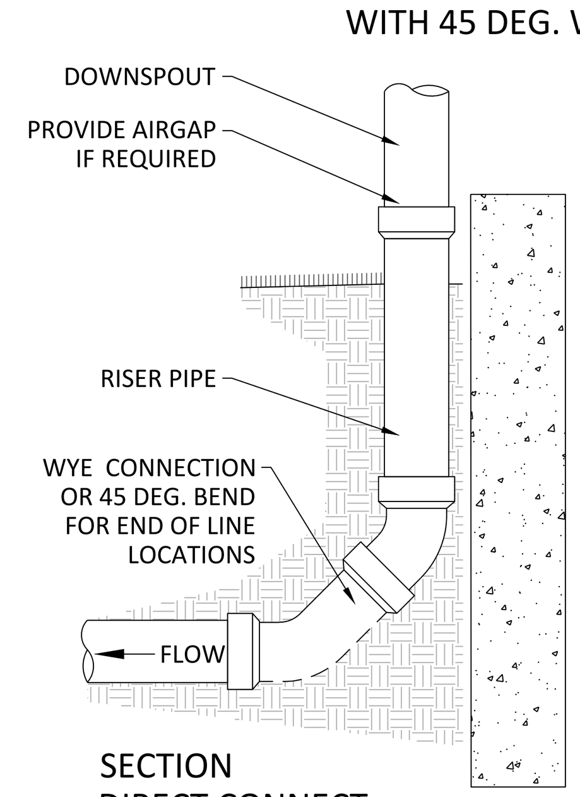
1. ALL VALVES SHALL BE: RESILIENT WEDGE GATE VALVES WITH MECHANICAL JOINT ENDS TO COMPLY WITH ANSI/ AWWA C515-09 OR LATEST VERSION. VALVES TO BE CLOW, AMERICAN, WATEROUS, KENNEDY, OR APPROVED EQUAL.
2. CONCRETE BASE AND BLOCKING MATERIAL SHALL NOT BLOCK NOR OBSTRUCT HYDRANT DRAIN.

FIRE HYDRANT

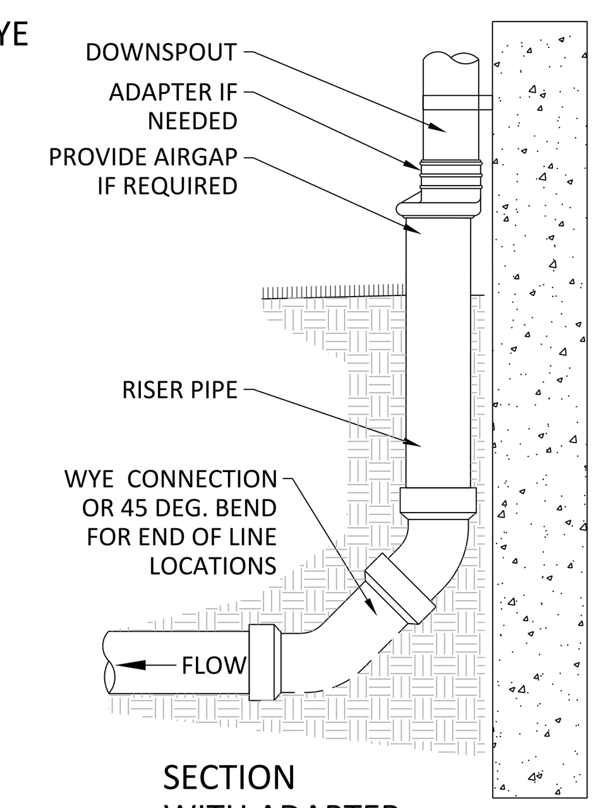
NOT TO SCALE



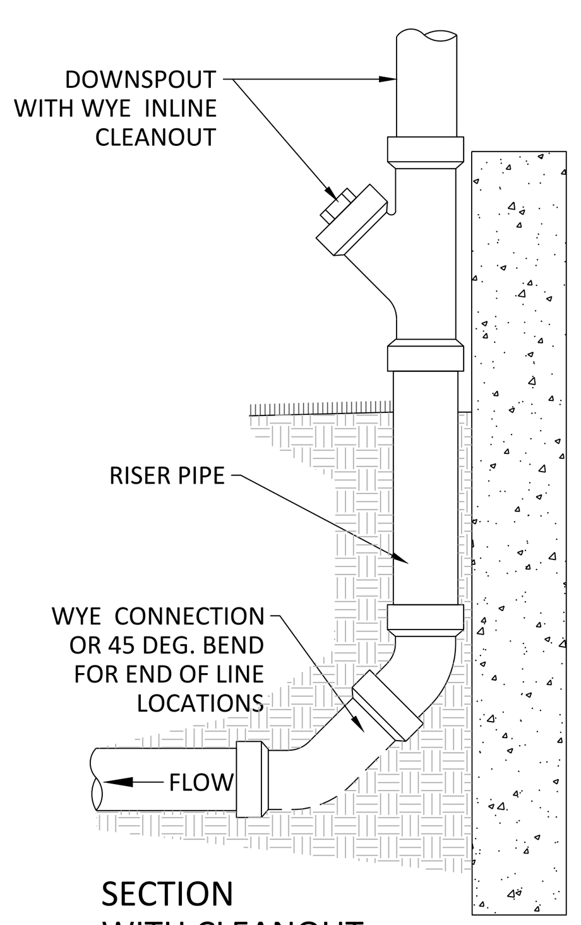
SECTION
WITH 45 DEG. WYE



SECTION
DIRECT CONNECT



SECTION
WITH ADAPTER

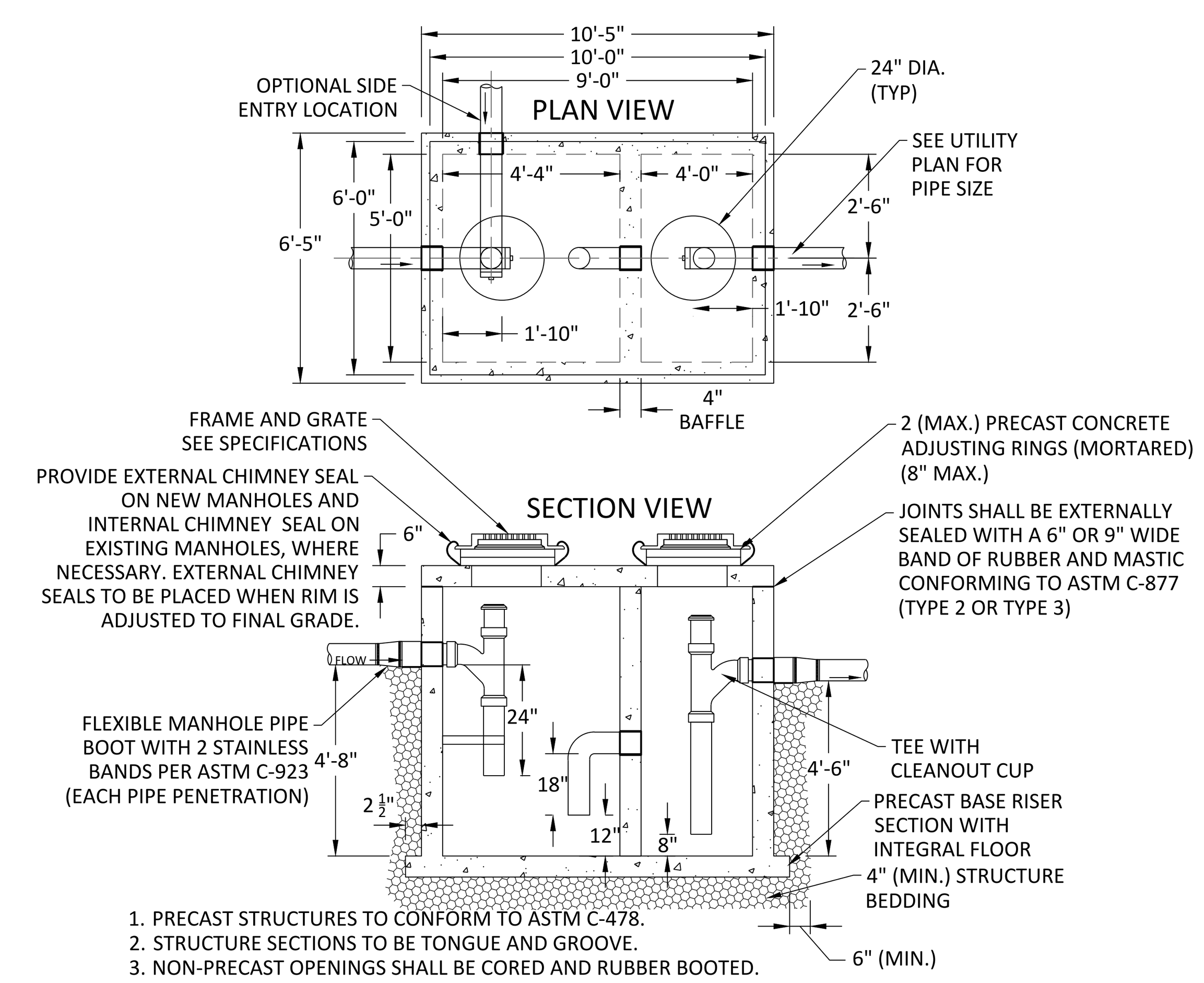


SECTION
WITH CLEANOUT

1. VERIFY PIPE SIZES WITH UTILITY PLAN.
2. PAINT DOWNSPOUT CONNECTIONS TO MATCH COLOR OF BUILDING EXTERIOR.

DOWNSPOUT CONNECTIONS

NOT TO SCALE



1. PRECAST STRUCTURES TO CONFORM TO ASTM C-478.
2. STRUCTURE SECTIONS TO BE TONGUE AND GROOVE.
3. NON-PRECAST OPENINGS SHALL BE CORED AND RUBBER BOOTED.
4. USE EXTERNAL LIFTING HOLES ONLY, BUT NOT FULL PENETRATION.
5. ALL WASTE CONTAINING GREASE SHALL BE DISCHARGED TO A GREASE SEPARATOR BEFORE DISCHARGING INTO THE SANITARY SEWER, WITH THE EXCEPTION OF RESTAURANT DISHWASHERS, WHICH SHALL HAVE THEIR DISCHARGE BYPASS THE GREASE SEPARATOR AND DISCHARGE DIRECTLY OR INDIRECTLY INTO THE SANITARY SEWER

1500 GAL. RECTANGULAR GREASE TRAP

NOT TO SCALE

MUNICIPAL/AGENCY APPROVAL STAMP

FREDDY'S - NAPERVILLE
1967 GLACIER PARK AVENUE
NAPERVILLE, IL 60540

PROJECT DETAILS 3

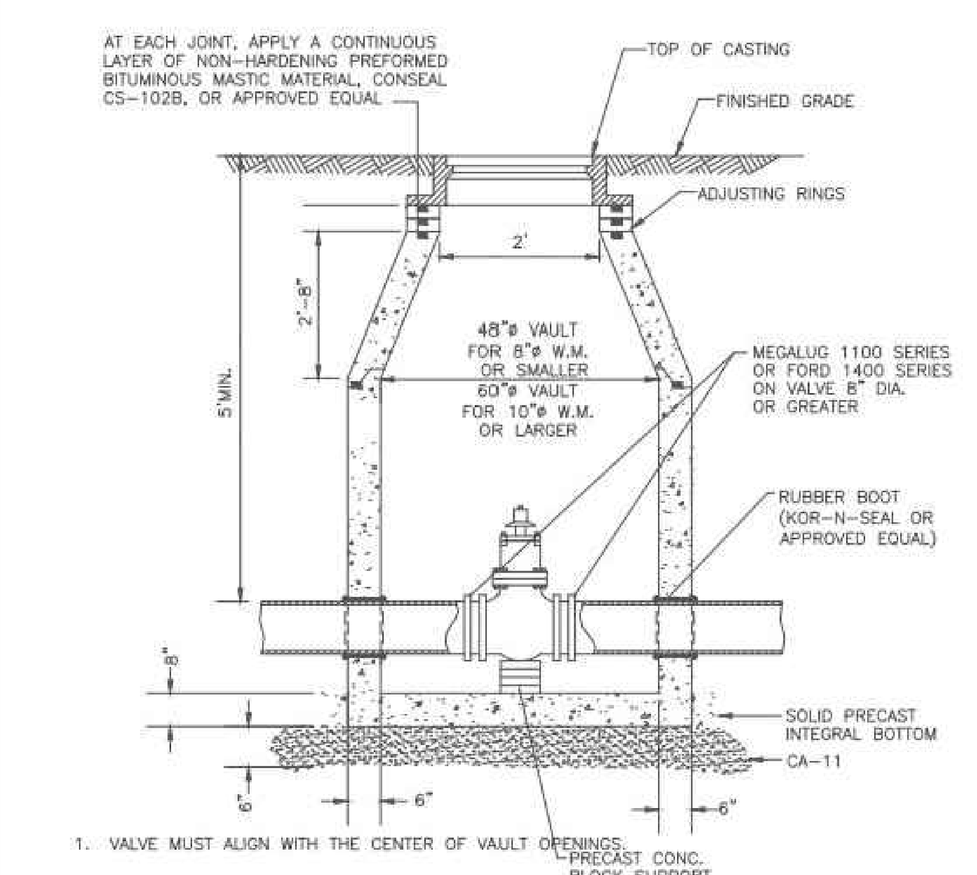
NO.	DATE	REVISION DESCRIPTION	BY
1	10/31/2022	PER CITY OF NAPERVILLE COMMENTS	DG
2	12/19/2022	PER CITY OF NAPERVILLE COMMENTS	DG
3	01/02/2023	ADDRESS CHANGE	DG
4	01/30/2023	PER CLIENT REVIEW	DG

DESIGNED BY: DCG
REVIEWED BY: BP
DATE: 09/01/2022
PRJ#: 5477-300-32-01

Weaver Consultants Group

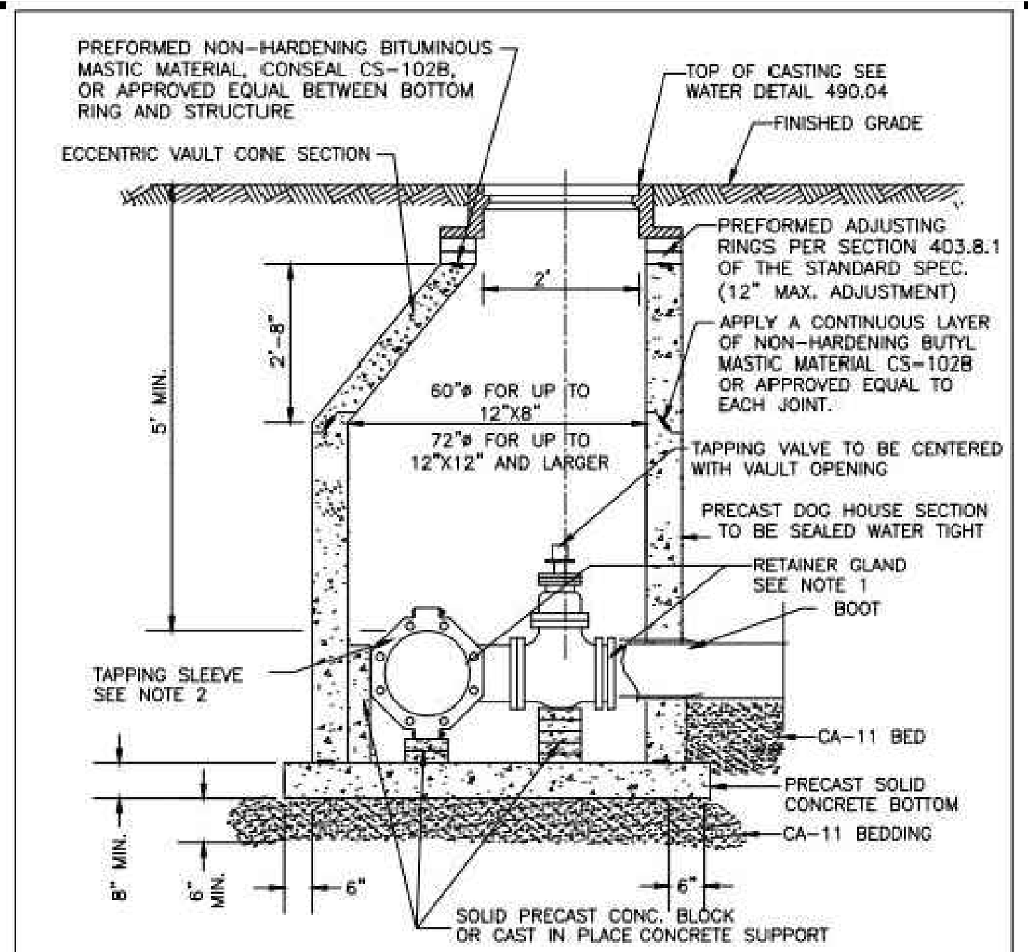
OFFICE LOCATION:
WEAVER CONSULTANTS GROUP
1316 BOND STREET, SUITE 108
NAPERVILLE, ILLINOIS 60563
(630) 717-4848
wcgrp.com

SHEET #:
C-12



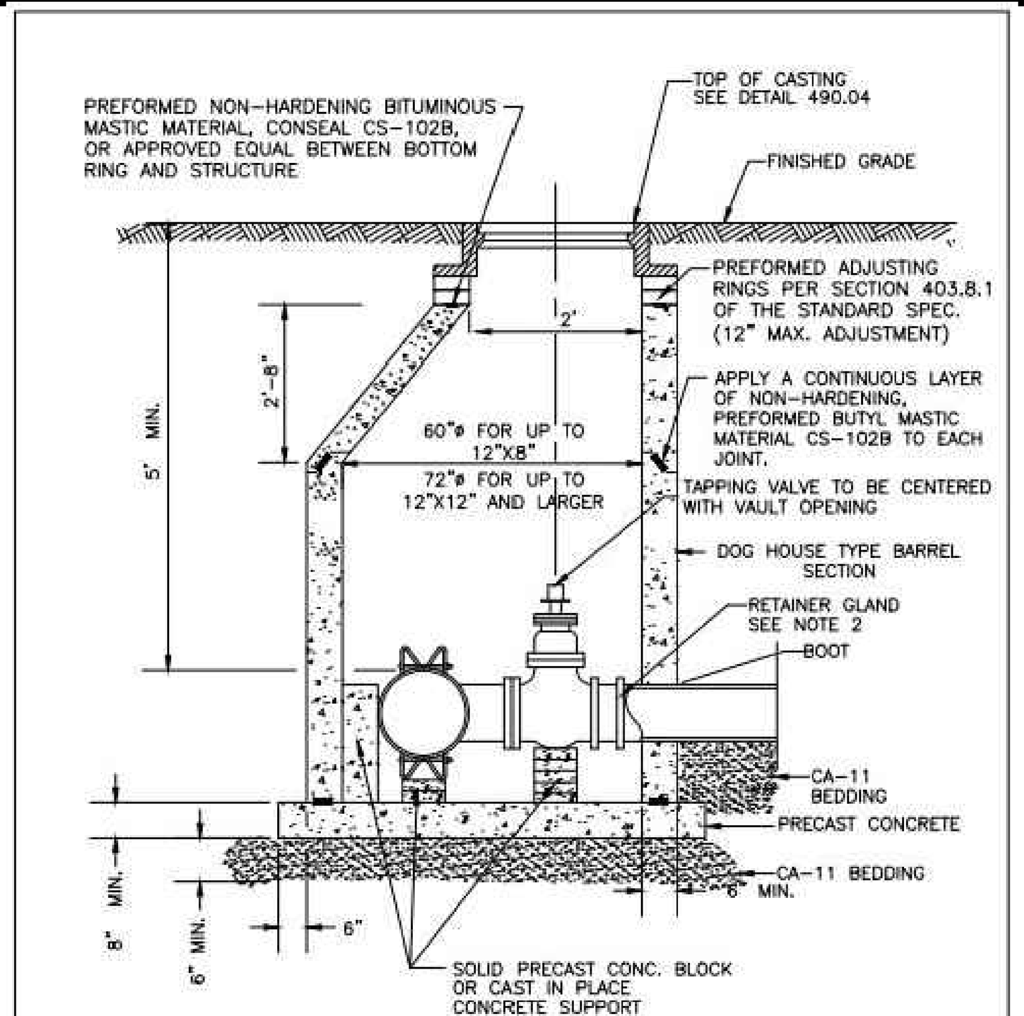
1. VALVE MUST ALIGN WITH THE CENTER OF VAULT OPENINGS.
2. CONCENTRIC CONES TO BE USED FOR VALVES 12" AND SMALLER.
3. VALVES SHALL BE RESILIENT WEDGE GATE VALVES WITH MECHANICAL JOINT ENDS TO COMPLY WITH ANSI/AWWA C515-09 OR LATEST VERSION VALVES TO BE CLOW, AMERICAN, WATEROUS, KENNEDY OR APPROVED EQUAL.
4. WHEN ADJUSTMENTS ARE NECESSARY, THEY SHALL BE PERFORMED WITH A MAXIMUM OF TWO (2) PRECAST CONCRETE RINGS SET IN A BED OF PREFORMED NON-HARDENING MASTIC MATERIAL (CONSEAL CS-102B, OR APPROVED EQUAL) TO A MAXIMUM HEIGHT OF 12".

City of Naperville STANDARD DETAIL | VALVE VAULT | EFFECTIVE: 7/17/2020 | SHEET 1 OF 1 | WATER 1 | **490.01**



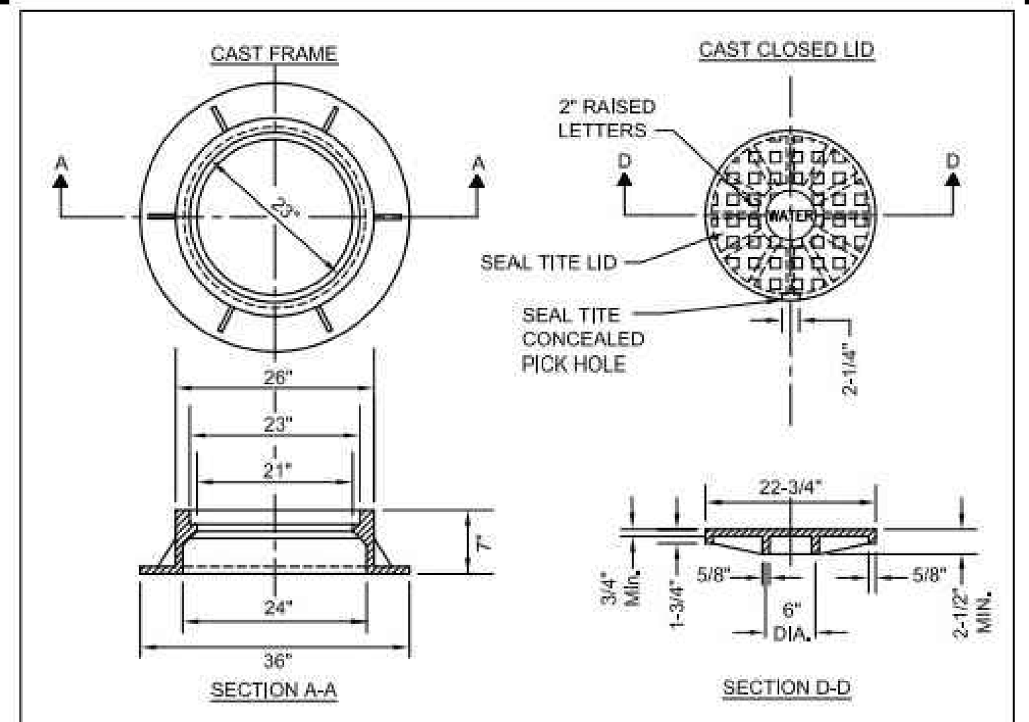
1.) USE MEGALUG SERIES 1100 OR FORD UNI-FLANGE SERIES 1400 RETAINER GLANDS WITH STAINLESS STEEL T-BOLTS COATED WITH ANTI-SIEZE COMPOUND.
2) TAPPING SLEEVES SHALL BE CAST OR DUCTILE IRON MECHANICAL JOINT CONFORMING TO ANSI/AWWA C110/A21.10-82 (TYLER/UNION OR APPROVED EQUAL). EXISTING PIPE TO BE DISINFECTED PRIOR TO INSTALLATION OF TAPPING SLEEVE. TAPPING SLEEVE TO BE PRESSURE TESTED HYDROSTATICALLY TO OPERATING PRESSURE PLUS 50 PERCENT PRIOR TO MAKING PRESSURE CONNECTION.
3) EXISTING PIPE TO BE DISINFECTED PRIOR TO INSTALLATION OF TAPPING SLEEVE AND TAPPING SLEEVE IS TO BE PRESSURE TESTED TO OPERATING PRESSURE PLUS 50 PERCENT PRIOR TO MAKING PRESSURE CONNECTION.
4) DO NOT USE STAINLESS STEEL SLEEVE ON SIZE TAPS OR PIPES LARGER THAN 12" DIAMETER
5) IN THE EVENT IT IS NECESSARY TO USE A PRECAST SPLIT BOTTOM FLOOR DUE TO SPACE CONSTRAINTS THE FLOOR MUST BE GROUTED WATER TIGHT.
6) TAPPING VALVES SHALL CONFORM TO C515-09 OR LATEST REVISION: AMERICAN SERIES 2500 RESILIENT WEDGE TAPPING VALVES WITH FLANGED X MECHANICAL JOINT ENDS OR APPROVED EQUAL.

City of Naperville STANDARD DETAIL | VALVE VAULT WITH CAST/DUCTILE IRON SLEEVE PRESSURE TAP | REVISED: 01/01/2013 | SHEET 1 OF 1 | WATER 2 | **490.02**



1. USE MEGALUG SERIES 1100 OR FORD UNI-FLANGE SERIES 1400 RETAINER GLANDS WITH STAINLESS STEEL T-BOLTS COATED WITH ANTI-SIEZE COMPOUND.
2. TAPPING SLEEVES SHALL BE HEAVY DUTY STAINLESS STEEL WITH STAINLESS STEEL BOLTS AND NUTS (ROMAC INDUSTRIES SST III, CASCADE CST-EX, FORD FTSS).
3. EXISTING PIPE TO BE DISINFECTED PRIOR TO INSTALLATION OF TAPPING SLEEVE AND TAPPING SLEEVE IS TO BE PRESSURE TESTED TO OPERATING PRESSURE PLUS 50 PERCENT PRIOR TO MAKING PRESSURE CONNECTION.
4. DO NOT USE STAINLESS STEEL SLEEVE ON SIZE ON SIZE TAPS OR PIPES LARGER THAN 12" DIAMETER.
5. IN THE EVENT IT IS NECESSARY TO USE A PRECAST SPLIT BOTTOM FLOOR DUE TO SPACE CONSTRAINTS THE FLOOR MUST BE GROUTED WATER TIGHT.
6. TAPPING VALVES SHALL CONFORM TO C515-09: AMERICAN SERIES 2500 RESILIENT WEDGE TAPPING VALVES WITH FLANGED X MECHANICAL JOINT ENDS OR APPROVED EQUAL.

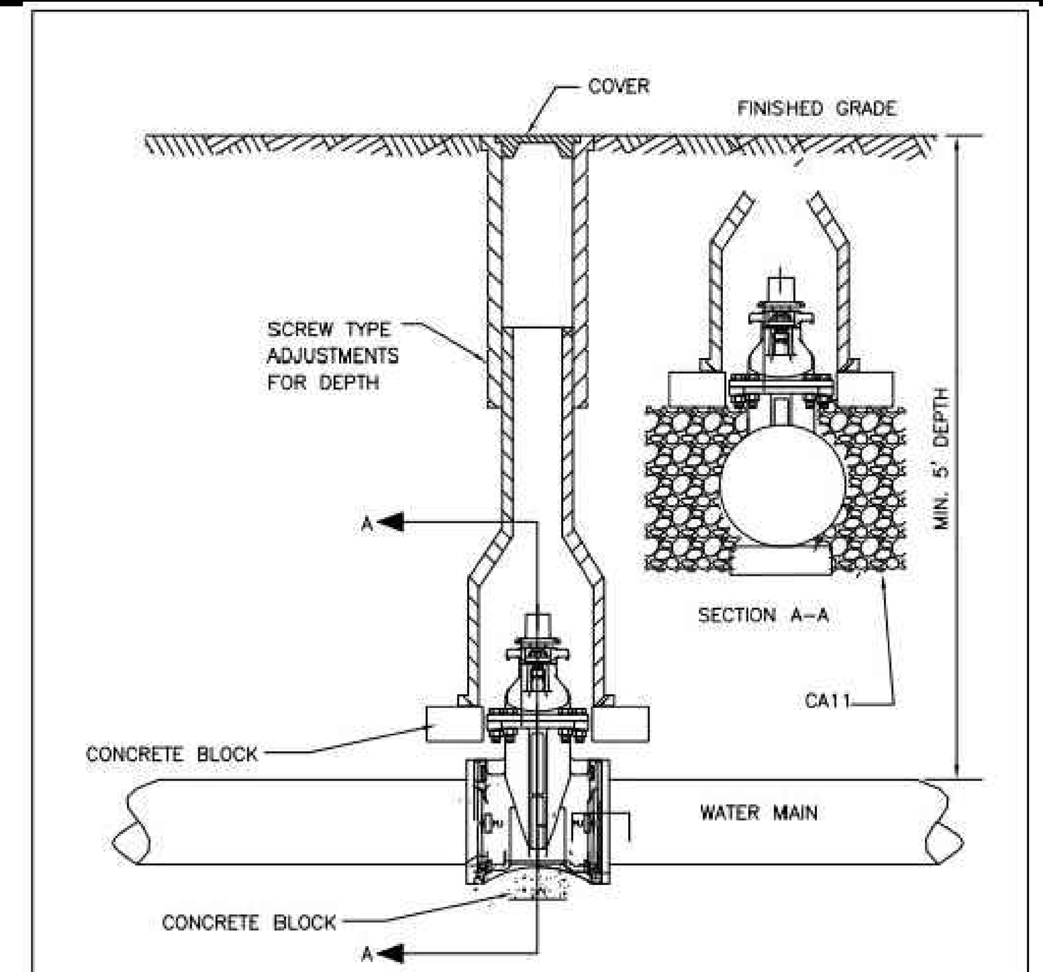
City of Naperville STANDARD DETAIL | VALVE VAULT WITH STAINLESS STEEL SLEEVE PRESSURE TAP | REVISED: 01/01/2013 | SHEET 1 OF 1 | WATER 3 | **490.03**



NOTES:

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

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



NOTES:

1. TYLER 6850 OR APPROVED EQUAL. FOR LARGER VALVES TYLER 6860 OR APPROVED EQUAL WITH #6 BASE.
2. VALVE BOXES ARE NOT ALLOWED IN PAVED AREAS – VALVE VAULT SHALL BE PROVIDED. CONTRACTOR SHALL SUBMIT IN WRITING ANY LOCATION WHERE A VAULT IS NOT INTENDED TO BE INSTALLED AND SPECIFIC REASON WHY IT CANNOT BE INSTALLED. THIS MUST BE APPROVED IN WRITING BY DPU-WATER.
3. RESTRAINT GLANDS REQUIRED ON EACH SIDE OF VALVE IF STUBBED FOR FUTURE CONNECTION OR PIPE BEND WITHIN TWO PIPE LENGTHS OF VALVE.

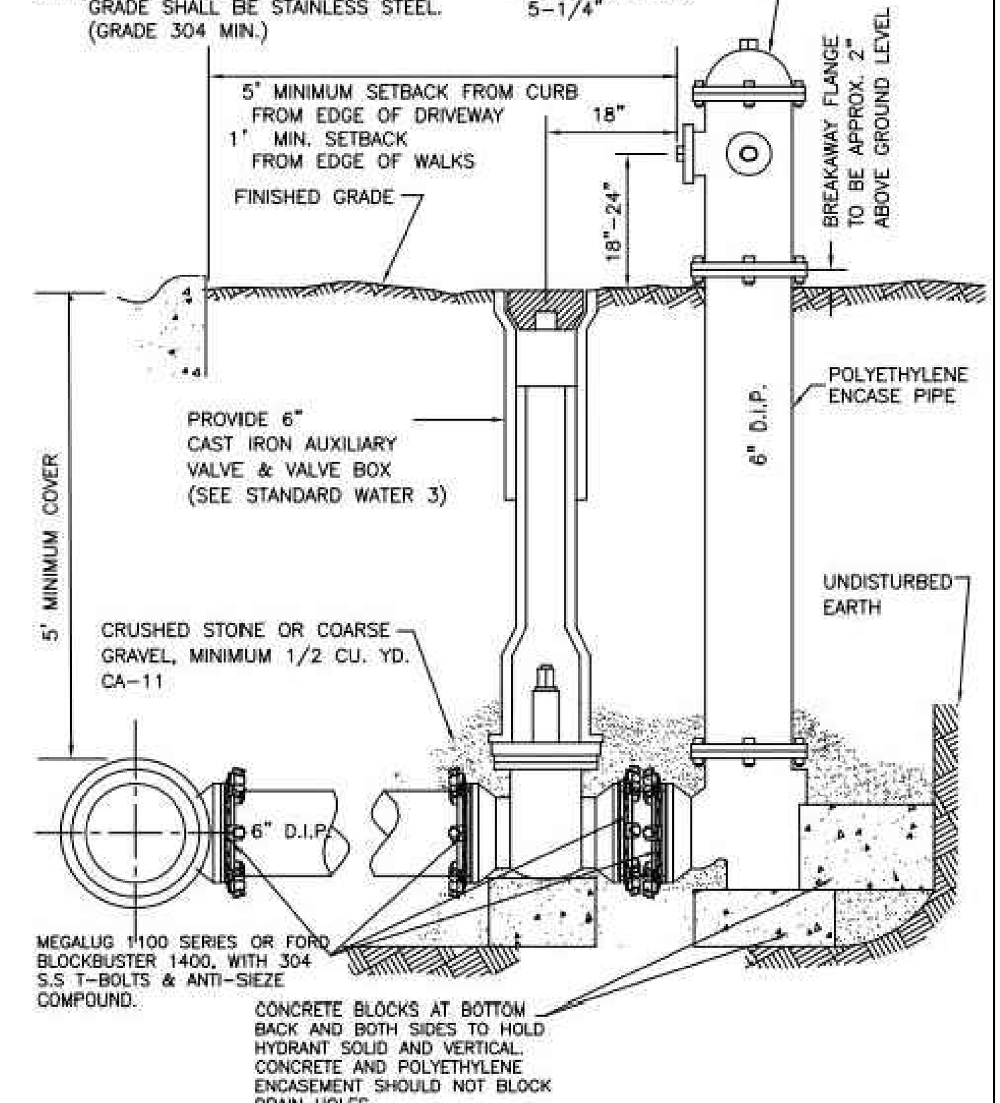
City of Naperville STANDARD DETAIL | VALVE BOX | REVISED: 01/01/2013 | SHEET 1 OF 1 | WATER 5 | **490.05**

MUNICIPAL/AGENCY APPROVAL STAMP

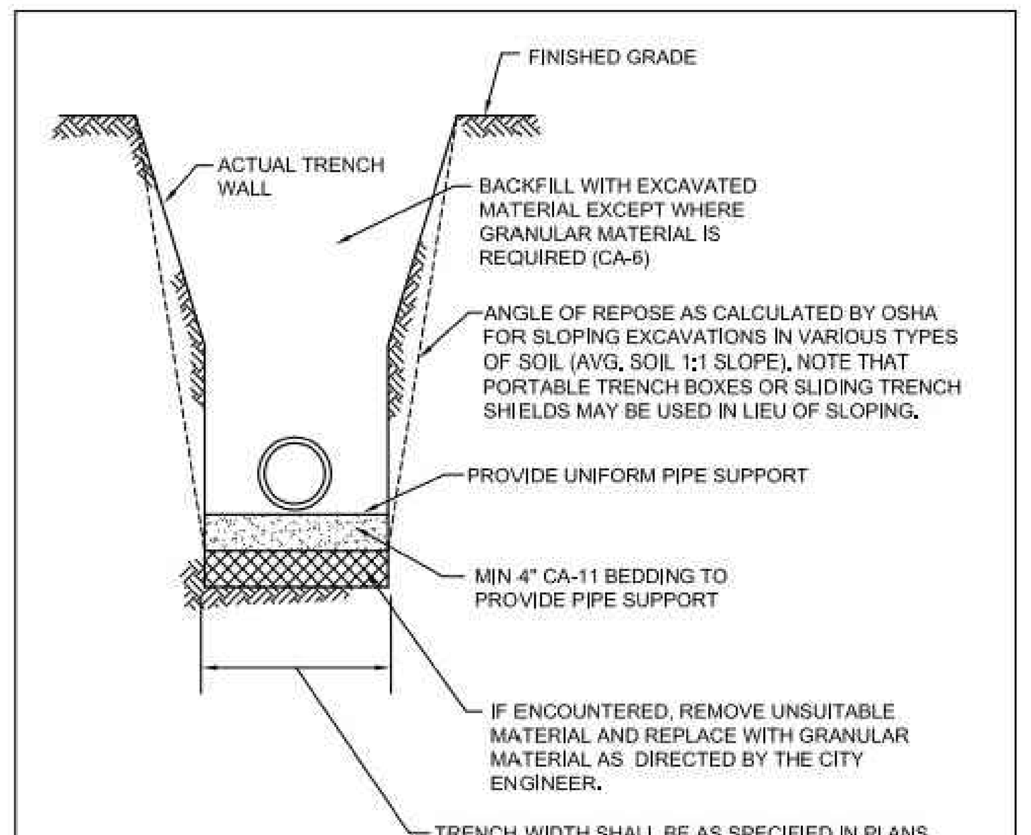
NOTES:

1. CHAIN AND CHAIN HOOKS SHALL BE REMOVED FROM HYDRANT
2. HYDRANT SHALL BE FACTORY PAINTED WITH 2 COATS OF TNEMEC VERSATONE 82 HS (OR APPROVED EQUAL) SAFETY ORANGE
3. ALL FASTENERS/HARDWARE BELOW GRADE SHALL BE STAINLESS STEEL. (GRADE 304 MIN.)

PERMITTED TYPES:
- WATEROUS PACER WB-67 5-1/4"
- CLOW MEDALLION 5-1/4"
- MUELLER A-423 5-1/4"



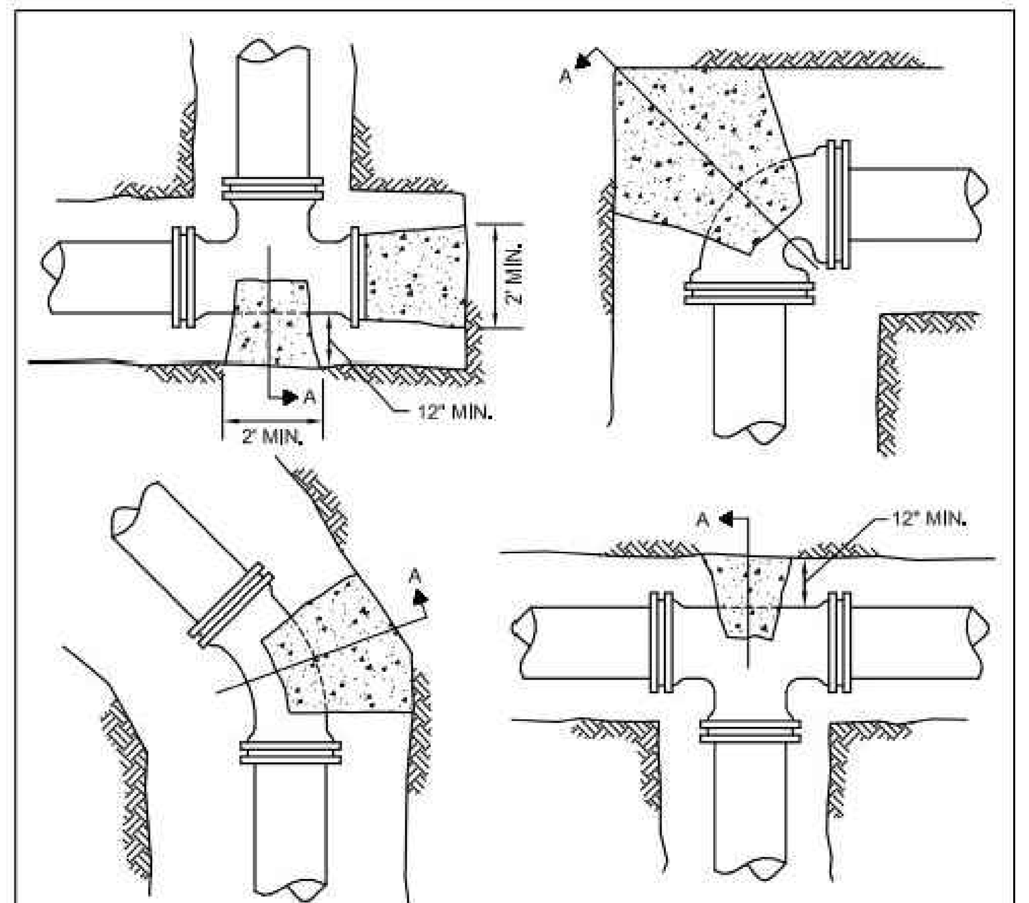
City of Naperville STANDARD DETAIL | HYDRANT | REVISED: 05/15/2015 | SHEET 1 OF 1 | WATER 6 | **490.06**



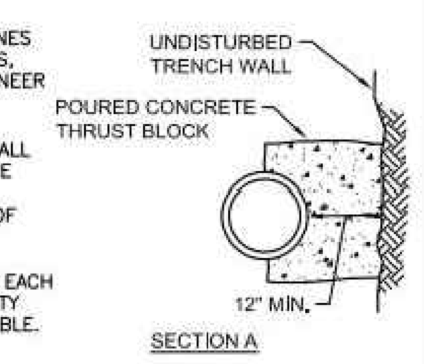
NOTES:

1. IN PAVED AREAS ALL TRENCHES SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 550.07 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. METHOD 1, 95% MINIMUM STANDARD PROCTOR.
2. DUCTILE IRON WATER MAIN TO BE CLASS 52. ALL DUCTILE IRON PIPE IS TO BE ENCASED IN POLYETHYLENE FILM. POLYETHYLENE ENCASEMENT TO BE INSTALLED IN ACCORDANCE WITH AWWAC105A21.5-99.(OR LATEST EDITION)
3. STAINLESS STEEL NUTS, BOLTS/T-BOLTS, AND WASHERS, TYPE 304 OR BETTER, WILL BE REQUIRED ON ALL WATER MAIN INSTALLATIONS. THIS WOULD APPLY TO HYDRANTS, TAPPING SLEEVES, VALVES, FITTINGS, RESTRAINT, AND OTHER APPURTENANCES BURIED OR IN VALVE VAULTS. MECHANICAL JOINTS AND RESTRAINT GLANDS REQUIRE 304 STAINLESS STEEL T-BOLTS. AN ANTI-SEIZE COMPOUND SHALL BE FACTORY APPLIED TO NUTS OR BOLTS - ANY DAMAGE TO THIS COATING SHALL BE REPAIRED WITH FIELD-APPLIED, APPROVED ANTI-SEIZE COMPOUND THAT IS A MOLYBDENUM-BASE LUBRICANT, BOSTIK NEVER-SEEZ OR APPROVED EQUAL.

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

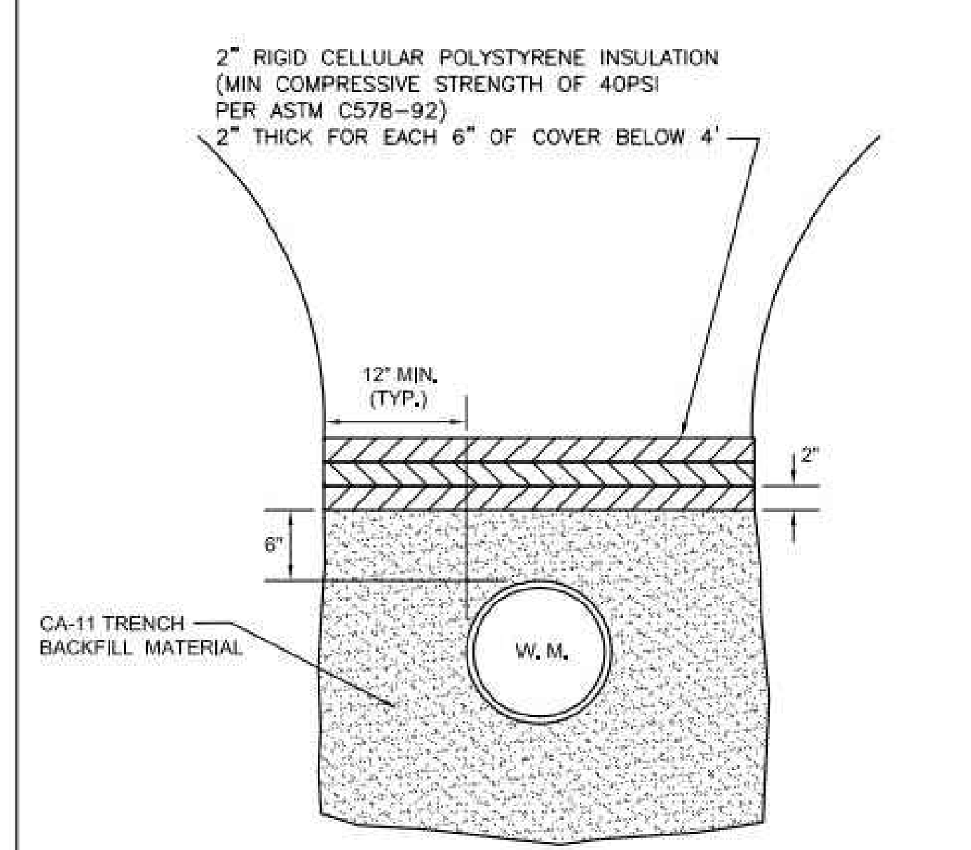


1. THRUST BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, TEES, CAPS, VALVES, HYDRANTS, & AT POINTS SPECIFIED BY THE ENGINEER SHALL BE CLASS "SI".
2. CONCRETE A MINIMUM OF 12" THICK, PLACED BETWEEN SOLID GROUND & THE FITTING, AND SHALL BE ANCHORED IN SUCH A MANNER THAT THE PIPE AND FITTING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



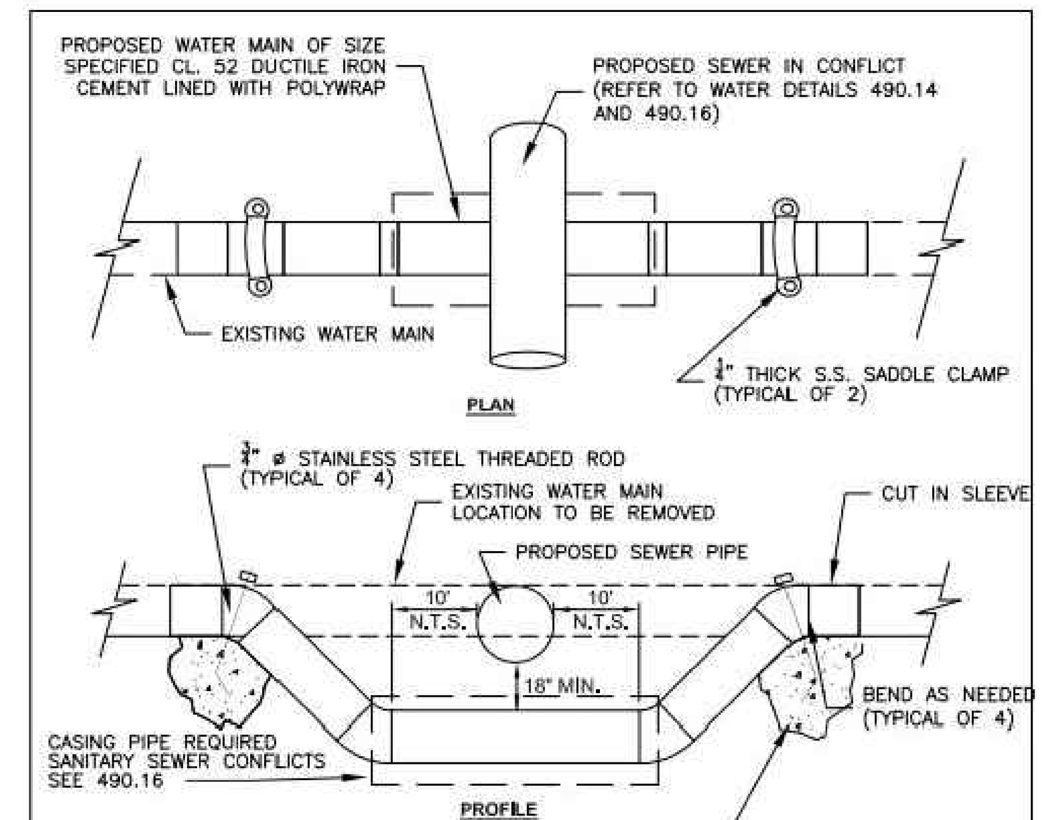
SECTION A

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



NOTE:
THIS METHOD MAY ONLY BE USED WHEN A MINIMUM 5' DEPTH TO THE TOP OF PIPE CANNOT BE ACHIEVED AND ONLY WITH THE WRITTEN APPROVAL OF THE CIVIL ENVIRONMENTAL ENGINEERING & CONSTRUCTION MANAGEMENT DIVISION, DEPARTMENT OF PUBLIC UTILITIES - WATER.

City of Naperville STANDARD DETAIL | PIPE INSULATION | REVISED: 01/01/2013 | SHEET 1 OF 1 | WATER 12 | **490.12**



1.) PIPING TO BE DISINFECTED DURING INSTALLATION. ALL NEW JOINTS SHALL BE INSTALLED WITH MEG-A-LUG, OR APPROVED EQUAL, JOINT RESTRAINT. CONTRACTOR SHALL USE 22 1/2 OR 11 1/4 DEGREE BENDS IN LIEU OF 45 DEGREE BENDS WHERE POSSIBLE.

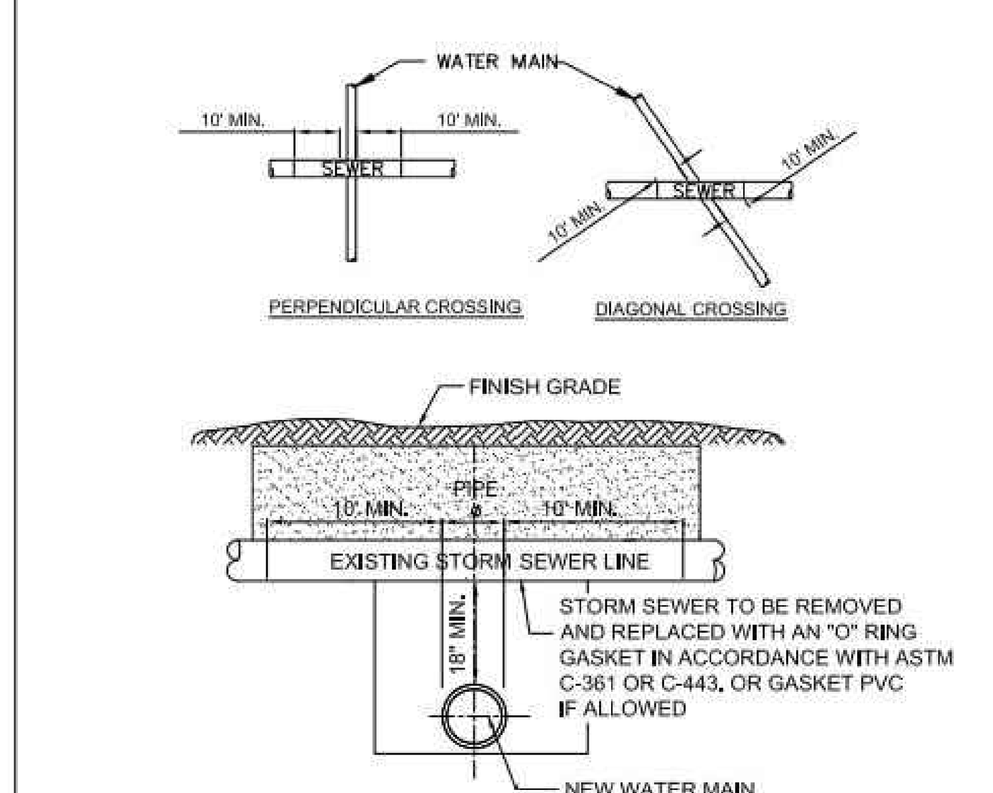
2.) VERTICAL THRUST BLOCKS UNDER BENDS SHALL BE 1 C.Y. MINIMUM OR SIZED AS NEEDED TO RESTRAIN BENDS. CONCRETE TO SUFFICIENTLY CURE PRIOR TO TESTING. POURED CONCRETE SHALL NOT BE PLACED AROUND PIPE BOLTS OR HINDER FUTURE MAINTENANCE.

3.) POLYWRAP SHOULD BE IN SHEETS INSTALLED UNDER WATER MAIN WITH ALL PIPING JOINTS EXPOSED UNTIL AFTER PRESSURE TEST IS COMPLETE, THEN WRAPPED AND TAPED IN PLACE PRIOR TO BACKFILLING.

4.) SEWERS INSTALLED ABOVE WATER MAIN SHALL BE DESIGNED TO PROVIDE WATER MAIN PROTECTION AS REQUIRED BY I.E.P.A

5.) ALL PIPING TO BE FLUSHED AND TWO SAFE CONSECUTIVE BACTERIAL SAMPLES TAKEN PRIOR TO CITY PLACING MAIN BACK IN SERVICE.

City of Naperville STANDARD DETAIL | LOWERING/ADJUSTING WATER MAIN | REVISED: 05/15/2015 | SHEET 1 OF 1 | WATER 13 | **490.13**



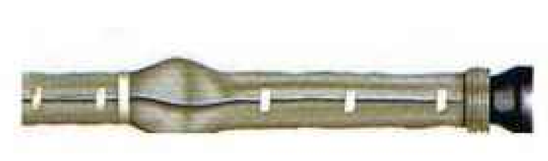
NOTE:
NEW STORM SEWER INSTALLATION SHALL BE GASKETED STRUCTURE TO STRUCTURE

City of Naperville STANDARD DETAIL | WATER MAIN PROTECTION FROM EXISTING STORM SEWER PIPE | REVISED: 01/01/2013 | SHEET 1 OF 1 | WATER 14 | **490.14**

CUT A SECTION OF POLYETHYLENE TUBE APPROXIMATELY TWO FEET LONGER THAN THE PIPE SECTION. REMOVE ALL LUMPS OF CLAY, MUD, CINDERS, OR OTHER MATERIAL THAT MIGHT HAVE ACCUMULATED ON THE PIPE SURFACE DURING STORAGE. SLIP THE POLYETHYLENE TUBE AROUND THE PIPE, STARTING AT THE SPIGOT END. BUNCH THE TUBE ACCORDION-FASHION ON THE END OF THE PIPE. PULL BACK THE OVERHANGING END OF THE TUBE UNTIL IT CLEARS THE PIPE END.

MAKE THE OVERLAP OF THE POLYETHYLENE TUBE BY PULLING BACK THE BUNCHED POLYETHYLENE FROM THE PRECEDING LENGTH OF PIPE AND SECURING IT IN PLACE. NOTE: THE POLYETHYLENE MAY BE SECURED IN PLACE BY USING TAPE, STRING, PLASTIC TIE STRAPS, OR ANY OTHER MATERIAL CAPABLE OF HOLDING THE POLYETHYLENE ENCASEMENT SNUGLY AGAINST THE PIPE.

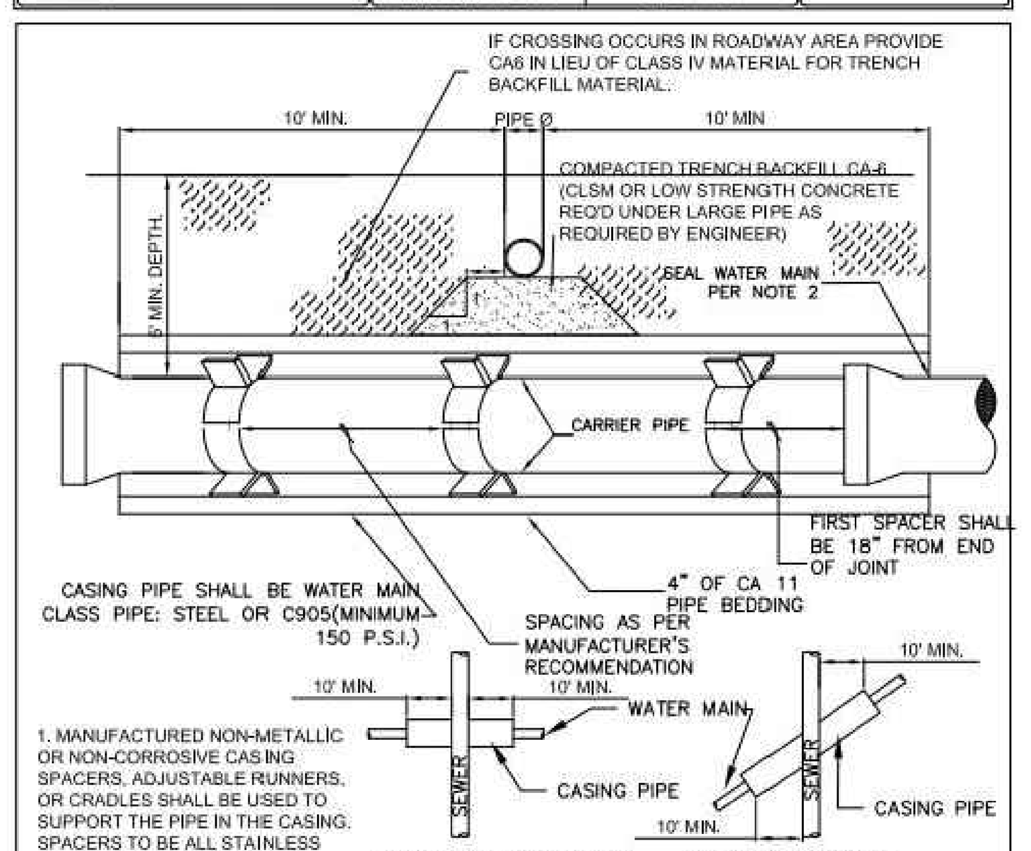
TAKE UP SLACK IN THE TUBE ALONG THE BARREL OF THE PIPE TO MAKE A SNUG, BUT NOT TIGHT, FIT. FOLD EXCESS POLYETHYLENE BACK OVER THE TOP OF THE PIPE.



REPAIR ALL SMALL RIPS, TEARS OR OTHER TUBE DAMAGE WITH MANUFACTURER APPROVED ADHESIVE TAPE.

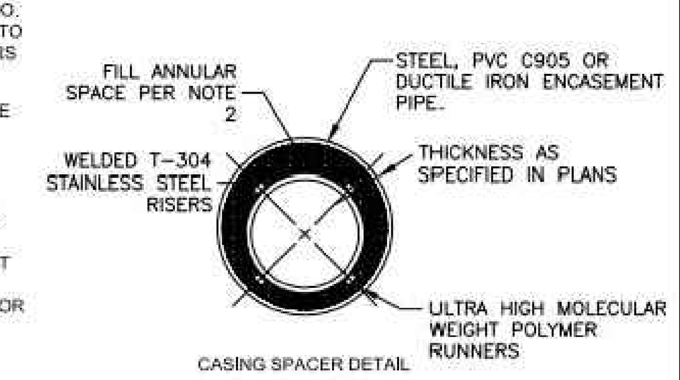
1. COVER BENDS, REDUCERS AND OTHER PIPE-SHAPED APPURTENANCES WITH POLYETHYLENE IN THE SAME MANNER AS THE PIPE.
2. WRAP VALVES, TEES AND OTHER ODD-SHAPED APPURTENANCES WITH A FLAT SHEET OR SPLIT LENGTH OF POLYETHYLENE TUBE BY PASSING THE SHEET UNDER THE APPURTENANCES AND BRINGING IT UP AROUND THE BODY. MAKE SEAMS BY BRINGING THE EDGES OF THE POLYETHYLENE SHEET TOGETHER, FOLDING OVER TWICE, AND TAPING DOWN.
3. POLYETHYLENE ENCASEMENT TO BE IN ACCORDANCE WITH A.W.W.A. C105-99OR LATEST VERSION.
4. COPPER SERVICE TAPS ARE TO BE WRAPPED WITH POLYETHELENE OR A SUITABLE DIELECTRIC APE FOR A MINIMUM CLEAR DISTANCE OF 3' AWAY FROM THE MAIN.

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



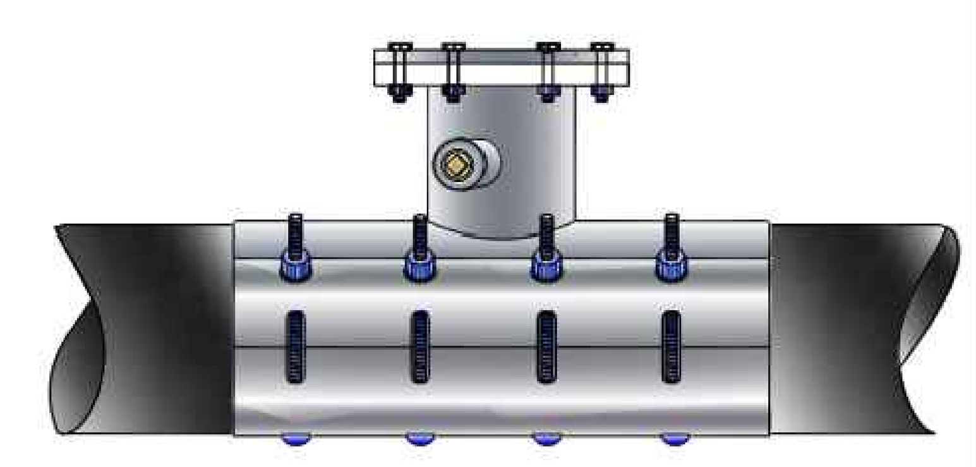
1. MANUFACTURED NON-METALLIC OR NON-CORROSIVE CASING SPACERS, ADJUSTABLE RUNNERS, OR CRADLES SHALL BE USED TO SUPPORT THE PIPE IN THE CASING. SPACERS TO BE ALL STAINLESS STEEL CASING SPACER WITH ULTRA HIGH MOLECULAR WEIGHT POLYMER BEARING SURFACE: CASCADE WATERWORKS PART NO. CCS OR APPROVED EQUAL, AND TO BE SPACED PER MANUFACTURERS SPECIFICATIONS.

2. THE ANNULAR SPACE SHALL BE COMPLETELY FILLED WITH PEA GRAVEL OR CELLULAR FOAM GROUT, AS REQUIRED BY PERMITTING AGENCY, AND PROVISIONS SHALL BE MADE SO THAT NO VOIDS ARE LEFT. THE CASING PIPE MUST BE SEALED AT END WITH DOUBLE SOLID CONCRETE BRICK AND MORTAR OR POURED CONCRETE 8" IN THICKNESS.



CASING SPACER DETAIL

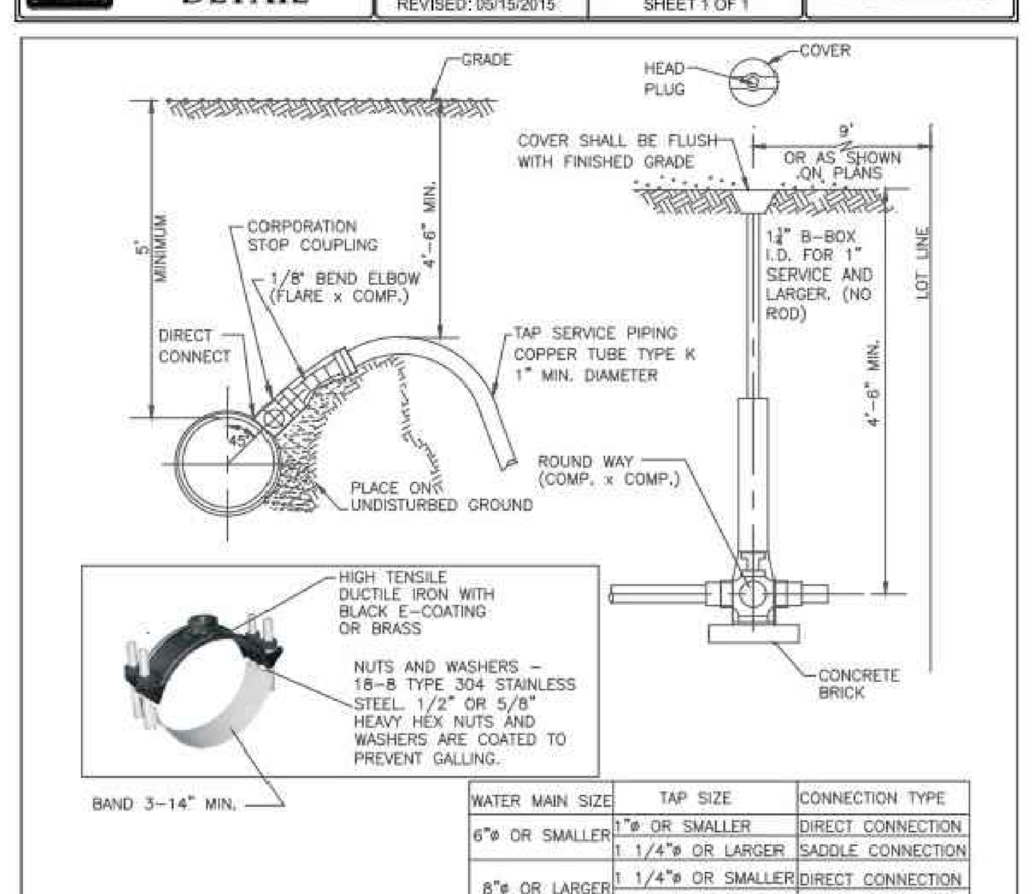
City of Naperville STANDARD DETAIL | WATER MAIN CASING PIPE | REVISED: 01/01/2013 | SHEET 1 OF 1 | WATER 16 | **490.16**



SLEEVE TO BE PRESSURE RATED AT 150 PSI WORKING PRESSURE AND 225 PSI TEST PRESSURE.

1. CONSTRUCTION TO BE ALL STAINLESS T-304, 18-8 STAINLESS STEEL , 14 GAUGE (MINIMUM).
2. GASKETS TO PROVIDE 360 DEGREE PIPE COVERAGE IN ADDITION TO A FULL CIRCUMFERENCE BRANCH SEAL GASKET.
3. EXISTING PIPE TO BE DISINFECTED PRIOR TO INSTALLATION OF LINE STOP
4. STAINLESS STEEL TEST PORT AND PLUG SHALL BE PROVIDED AND THE LINE STOP SLEEVE IS TO BE PRESSURE TESTED PRIOR TO CUTTING THE EXISTING PIPE.
5. V-LUGS SHALL BE FABRICATED TO THE SLEEVE AND DROP-IN STAINLESS STEEL BOLTS, NUTS AND WASHERS (18-8 MINIMUM GRADE) PROVIDED. NUTS SHALL BE COATED WITH ANTI-SIEZE COMPOUND TO PREVENT GALLING.
6. PROVIDE AS-BUILT FOR LOCATION AND ELEVATION OF TOP OF FLANGE ON RECORD DRAWINGS.
7. ACCEPTABLE LINE STOP SLEEVES ARE HYDRA STOP PREMIER LINE STOP FITTING OF ALL STAINLESS STEEL CONSTRUCTION WITH DROP-IN BOLT OPTION AND SMITH BLAIR MODEL 685 ALL STAINLESS STEEL LINE STOP TAPPING SLEEVE WITH. ALL BOLTS, NUTS, AND WASHERS AND BLIND FLANGES TO BE 18-8 TYPE 304 STAINLESS. STOPPLE (COMPLETION) PLUG TO BE DUCTILE IRON OR STAINLESS STEEL.

City of Naperville STANDARD DETAIL | LINE STOP TAPPING SLEEVE | REVISED: 01/01/2013 | SHEET 1 OF 1 | WATER 17 | **490.17**



City of Naperville STANDARD DETAIL | SERVICE TAP AND CONNECTION | EFFECTIVE: 7/17/2020 | SHEET 1 OF 1 | WATER 20 | **490.20**

FREDDY'S - NAPERVILLE

1967 GLACIER PARK AVENUE
NAPERVILLE, IL 60540

PROJECT DETAILS 4

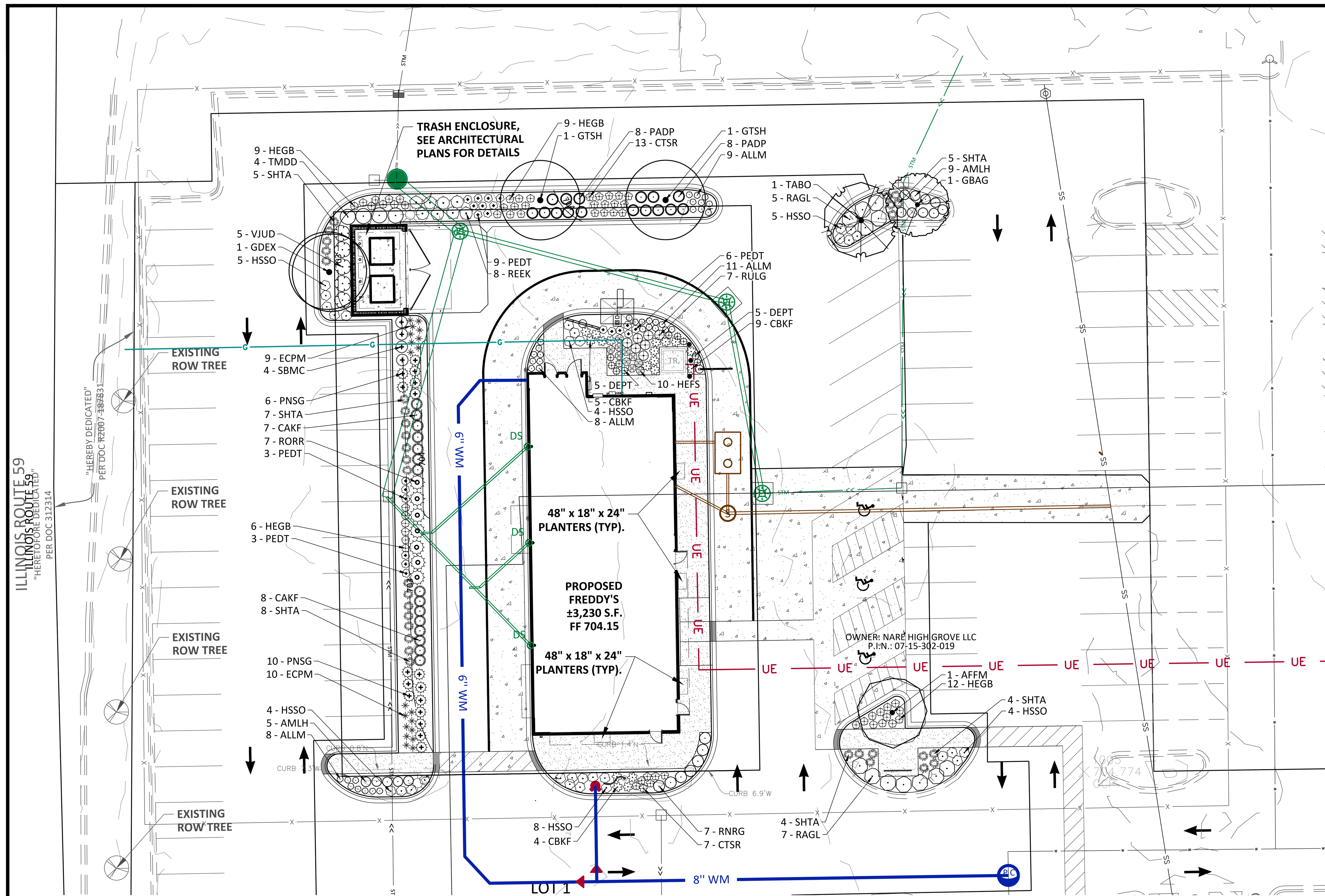
NO.	DATE	REVISION DESCRIPTION	BY
1	10/31/2022	PER CITY OF NAPERVILLE COMMENTS	DG
2	12/19/2022	PER CITY OF NAPERVILLE COMMENTS	DG
3	01/02/2023	ADDRESS CHANGE	DG
4	01/30/2023	PER CLIENT REVIEW	DG

DESIGNED BY: DCG
REVIEWED BY: BP
DATE: 09/01/2022
PRJ#: 5477-300-32-01

Weaver Consultants Group

OFFICE LOCATION:
WEAVER CONSULTANTS GROUP
1316 BOND STREET, SUITE 108
NAPERVILLE, ILLINOIS 60563
(630) 717-4848
wcgrp.com

SHEET #: C-13



NOTE: TREES SHOULD BE SET A MINIMUM OF 5 FEET FROM MAINS AND SERVICES, AND 10 FEET FROM MANHOLES, VALVE VAULTS, VALVE BOXES, SERVICE BOXES, FIRE HYDRANTS, ETC.

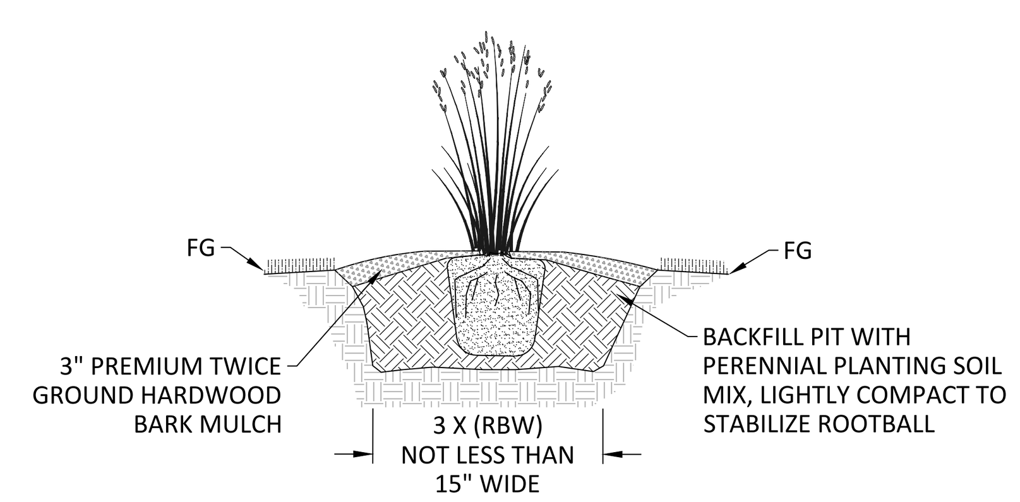
LANDSCAPE KEY

DECORATIVE STONE

MUNICIPAL/AGENCY APPROVAL STAMP

PLANT SCHEDULE

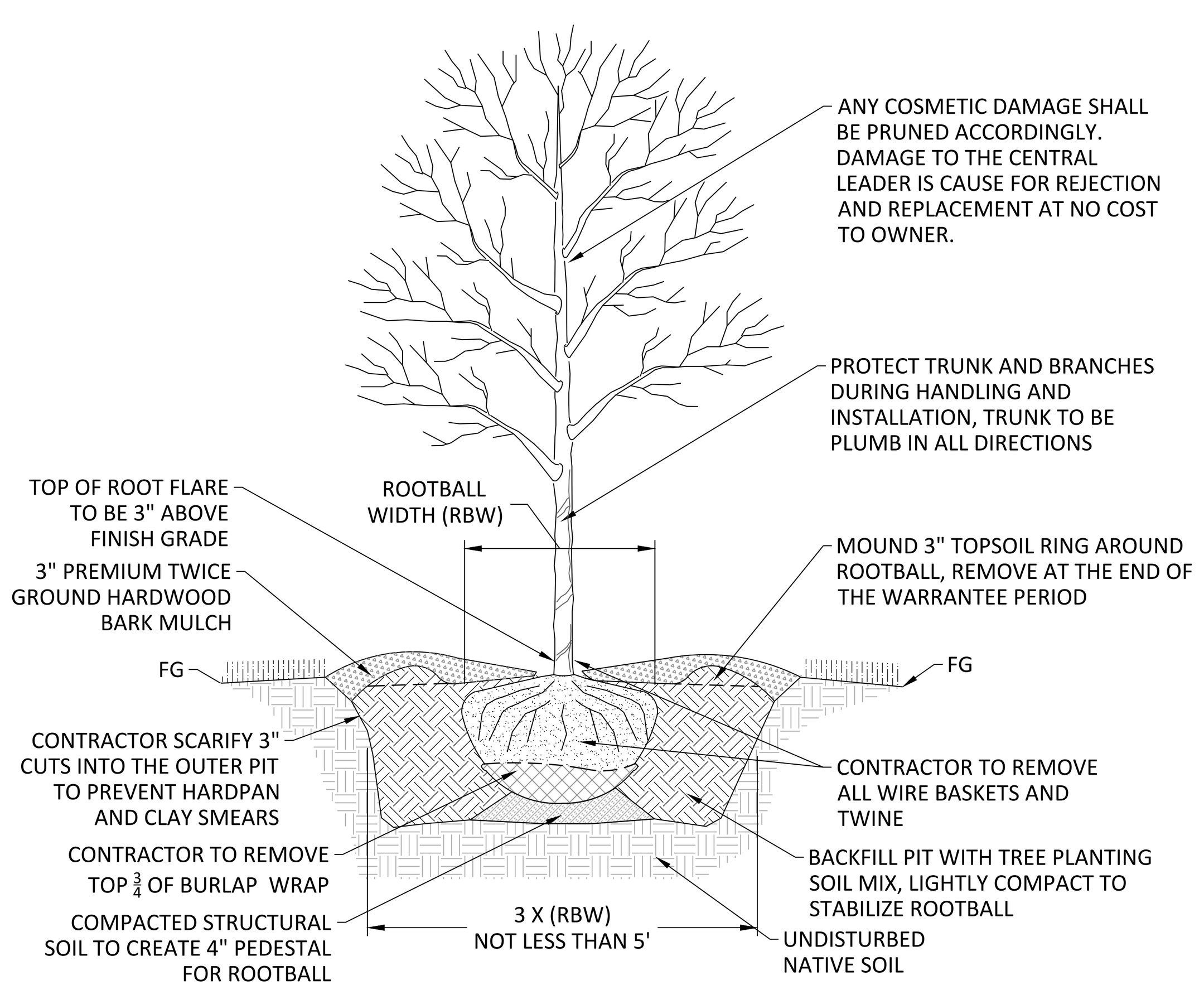
TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY
	AFFM	Acer x freemanii 'DTR 102' TM / Autumn Fantasy Freeman Maple	2.5" Cal.	B&B	1
	GBAG	Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Maidenhair Tree	2.5" Cal.	B&B	1
	GTSH	Gleditsia triacanthos inermis 'Shademaster' / Shademaster Honey Locust	2.5" Cal.	B&B	2
	GDEX	Gymnocladus dioica 'Espresso' / Kentucky Coffeetree	2.5" Cal.	B&B	1
	TABO	Tilia americana 'Boulevard' / Boulevard American Linden	2.5" Cal.	B&B	1
SHRUBS	**CODE**	**BOTANICAL / COMMON NAME**	**SIZE**	**CONTAINER**	**QTY**
	AMLH	Aronia melanocarpa 'UCONNAM166' TM / Low Scape Hedger Black Chokeberry	3 gal.	#3 CONTAINER	14
	RAGL	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	5 gal.	#5 CONTAINER	12
	RORR	Rosa rugosa / Rugosa Rose	3 gal.	#3 CONTAINER	7
	REEK	Rosa x 'BAImir' TM / Easy Elegance Kashmir Rose	3 gal.	#3 CONTAINER	8
	RNRG	Rosa x 'Noare' / Flower Carpet® Red Groundcover Rose	3 gal.	#3 CONTAINER	7
	SBMC	Spiraea x bumalda 'Walbuma' / Magic Carpet Spirea	3 gal.	#3 CONTAINER	4
	TMDD	Taxus x media 'Densiformis' / Dense Anglo-Japanese Yew	2` Ht.	#5 CONTAINER	4
	VJUD	Viburnum x juddii / Judd Viburnum	3 gal.	#3 CONTAINER	5
GRASSES	**CODE**	**BOTANICAL / COMMON NAME**	**SIZE**	**CONTAINER**	**QTY**
	CBKF	Calamagrostis brachytricha / Korean Feather Reed Grass	1 gal.	#1 CONTAINER	18
	CAKF	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass	1 gal.	#1 CONTAINER	15
	PNSG	Panicum virgatum 'Northwind' / Northwind Switch Grass	1 gal.	#1 CONTAINER	16
	PADP	Pennisetum alopecuroides 'Desert Plains' / Desert Plains Fountain Grass	1 gal.	#1 CONTAINER	16
	SHTA	Sporobolus heterolepis 'Tara' / Tara Prairie Dropseed	1 gal.	#1 CONTAINER	33
PERENNIALS	**CODE**	**BOTANICAL / COMMON NAME**	**SIZE**	**CONTAINER**	**QTY**
	ALLM	Allium x 'Millenium' / Millenium Ornamental Onion	1 gal.	#1 CONTAINER	36
	CTSR	Coreopsis grandiflora 'Sunray' / Sunray Tickseed	1 gal.	#1 CONTAINER	20
	DEPT	Dianthus x 'Paint the Town Fuchsia' / Paint the Town Fuchsia Dianthus	1 gal.	#1 CONTAINER	10
	ECPM	Echinacea x 'CBG Cone 2' / Pixie Meadowbrite® Purple Coneflower	1 gal.	#1 CONTAINER	19
	HEFS	Heliopsis helianthoides 'Tuscan Sun' / False Sunflower	1 gal.	#1 CONTAINER	10
	HEGB	Hemerocallis x 'Going Bananas' / Going Bananas Daylily	1 gal.	#1 CONTAINER	36
	HSSO	Hemerocallis x 'Stella de Oro' / Stella de Oro Daylily	1 gal.	#1 CONTAINER	30
	PEDT	Penstemon x 'Dark Towers' / Dark Towers Beardtongue	1 gal.	#1 CONTAINER	21
	RULG	Rudbeckia fulgida 'Little Goldstar' / Little Goldstar Coneflower	1 gal.	#1 CONTAINER	7



1. ENSURE POSITIVE DRAINAGE AWAY FROM PERENNIALS AND ORNAMENTAL GRASSES.
2. CONTRACTOR TO ENSURE ALL CONTAINER GROWN PLANTS ARE NOT ROOT BOUND.
3. GENTLY SCARIFY EXTERIOR OF ROOTBALL.
4. PERENNIAL BEDS SHALL BE TILLED TO A DEPTH OF 10" EXCEPT UNDER EXISTING TREES.
5. UNDER EXISTING TREES, CONTRACTOR TO DIG STAND ALONE PLANTINGS IN NATIVE SOILS. CONTRACTOR TO FIELD ADJUST IF LARGE ROOTS ARE ENCOUNTERED.

PERENNIAL/ ORNAMENTAL GRASS PLANTING

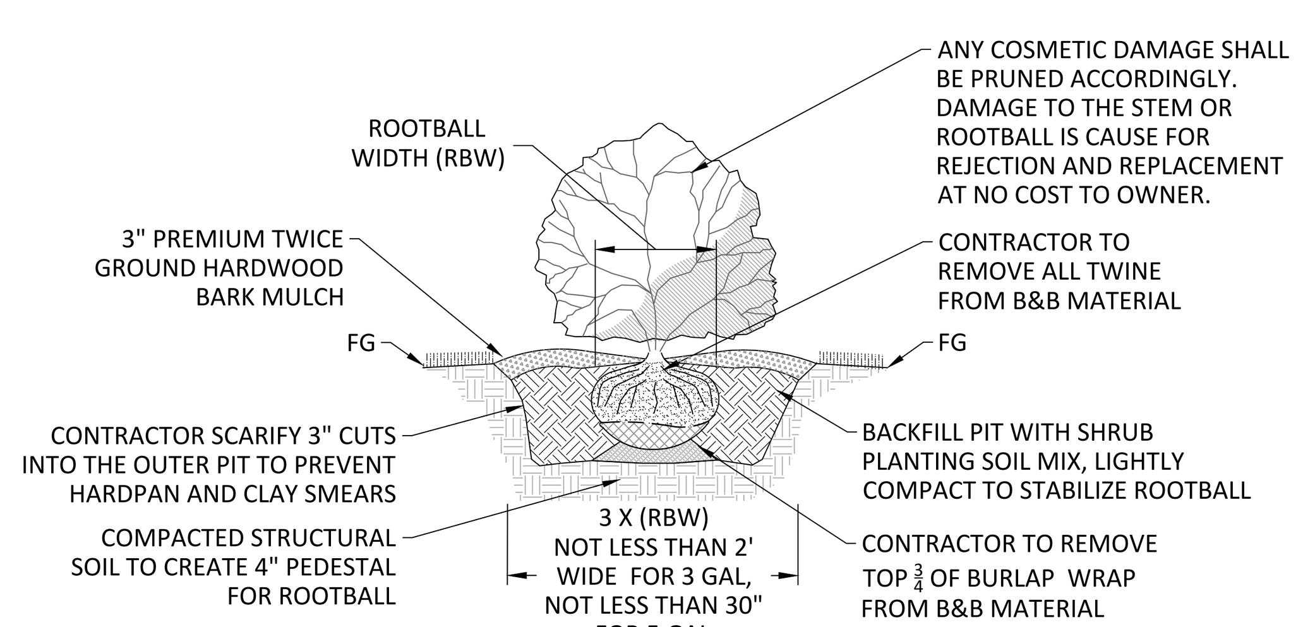
NOT TO SCALE



1. TREE TO BE HANDLED BY THE ROOTBALL ONLY.
2. ENSURE POSITIVE DRAINAGE AWAY FROM TREE.
3. ALL TREES TO BE FIELD GROWN, ROOT PRUNED, AND SPADE DUG.
4. ALL TREES TO BE BALL AND BURLAP AS NECESSARY FOR ROOT PROTECTION, VIABILITY, HANDLING &TRANSPORT.

SHADE TREE PLANTING

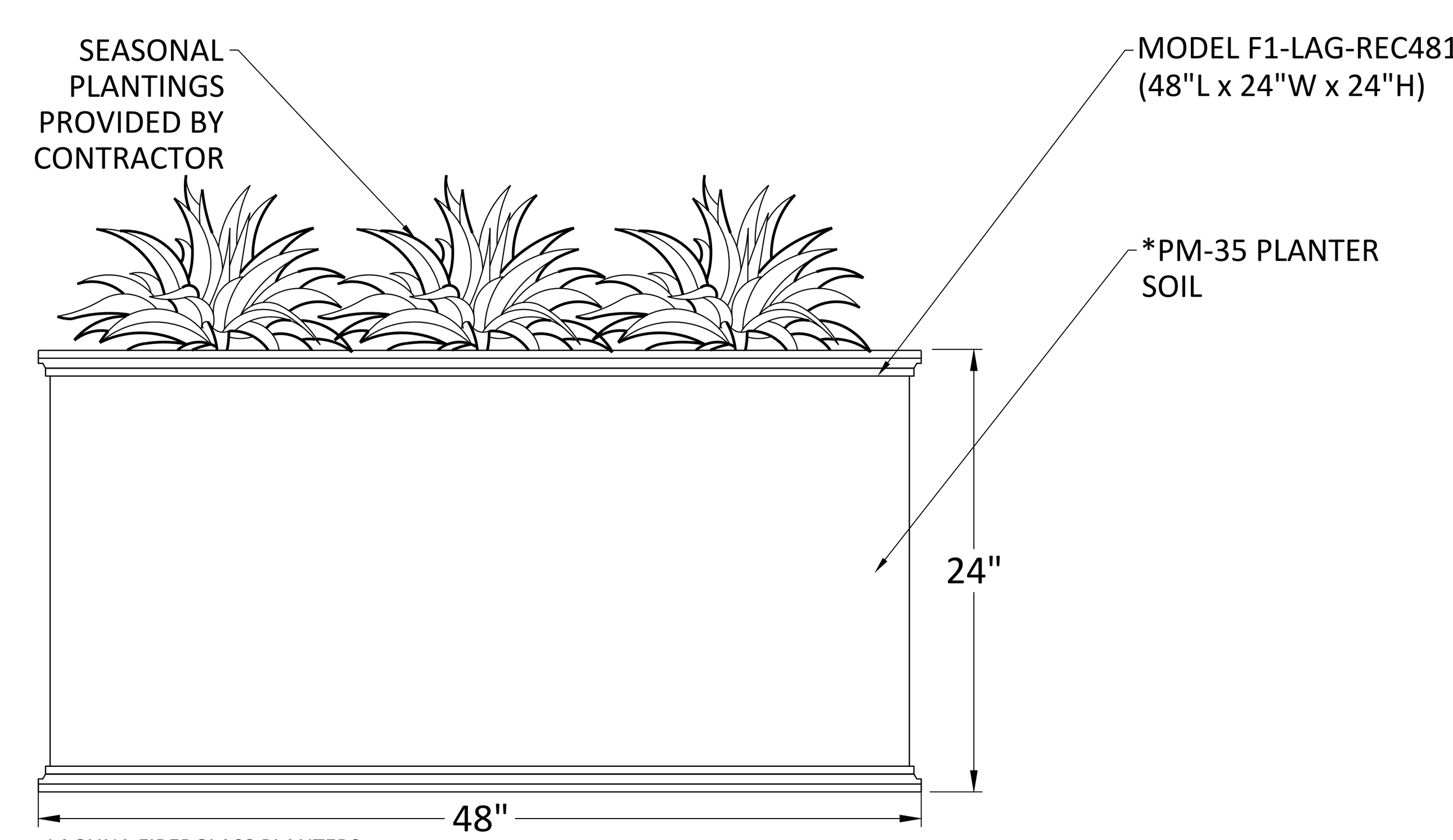
NOT TO SCALE



1. SHRUB TO BE HANDLED BY THE ROOTBALL ONLY.
2. ENSURE POSITIVE DRAINAGE AWAY FROM SHRUB.
3. CONTRACTOR TO ENSURE ALL CONTAINER GROWN PLANTS ARE NOT ROOT BOUND.
4. GENTLY SCARIFY EXTERIOR OF ROOTBALL.

SHRUB PLANTING

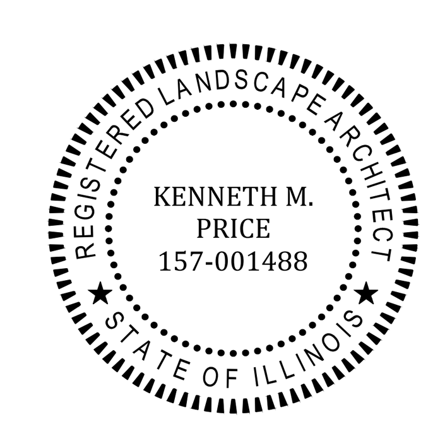
NOT TO SCALE



LAGUNA FIBERGLASS PLANTERS
PN: F1-LAG-REC481824 BY PLANTERS UNLIMITED
(OR APPROVED EQUAL)
CHARCOAL SEMI-GLOSS FINISH

PLANTER DETAIL

NOT TO SCALE



LANDSCAPE PREPARED BY WEAVER CONSULTANTS GROUP UNDER DIRECTION OF KENNETH M. PRICE

N

SCALE: 1" = 20'

0 10' 20' 40'

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LANDSCAPE PLAN

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