

PROPOSED SITE IMPROVEMENTS FOR CHELSEA SENIOR COMMONS

RT. 47 AND CHELSEA AVE. SUGAR GROVE, IL

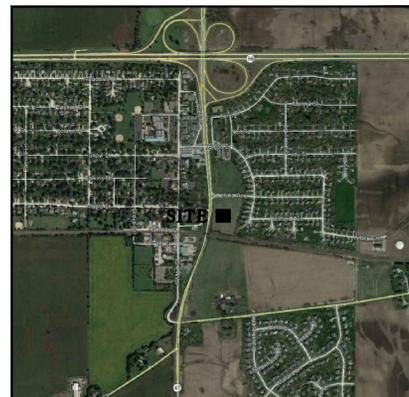
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-  EXISTING FIRE HYDRANT
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-  EXISTING VALVE AND VAULT
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-  PROPOSED SANITARY SEWER
-  EXISTING SANITARY SEWER
-  PROPOSED STORM SEWER
-  EXISTING STORM SEWER
-  HIGH WATER LEVEL
-  NORMAL WATER LEVEL
-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  PROPOSED SILT FENCE
-  STRAW BALES
-  EMERGENCY FLOOD ROUTE

2017



SITE LOCATION

BENCHMARK

1. BENCHMARK
CUT CROSS CENTER OF RI/RO ISLAND
AT RT. 47 AND CHELSEA LANE
ELEVATION = 723.41 (NAVD 88)

LEGAL DESCRIPTION

OF THAT PART OF THE SOUTH HALF OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 38 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, DESCRIBED BY BEGINNING AT THE NORTHWEST CORNER OF LOT 89 IN CHELSEA MEADOWS PHASE 2, (RECORDED MARCH 24, 1994 AS DOCUMENT 94K026375 IN KANE COUNTY, ILLINOIS, AND RUNNING THENCE SOUTH 13 DEGREES 01 MINUTES 45 SECONDS WEST ALONG THE WEST LINE OF LOTS 89 THRU 94, INCLUSIVE, IN SAID CHELSEA MEADOWS PHASE 2, 568.71 FEET TO THE SOUTHWEST CORNER OF SAID LOT 94 (SAID CORNER BEING ON THE NORTH LINE OF THE BURLINGTON NORTHERN SANTA FE RAILROAD RIGHT OF WAY); THENCE NORTH 83 DEGREES 13 MINUTES 37 SECONDS WEST ALONG SAID NORTH LINE, 307.18 FEET TO THE EASTERLY RIGHT OF WAY LINE OF STATE HIGHWAY ROUTE 47 AS PER PLAT OF DEDICATION RECORDED DECEMBER 16, 1936 IN BOOK 1047 ON PAGE 120 IN KANE COUNTY, ILLINOIS; THENCE NORTH 2 DEGREES 17 MINUTES 43 SECONDS WEST ALONG SAID EASTERLY LINE, 435.30 FEET TO THE SOUTHERLY LINE OF A PARCEL DEDICATED FOR HIGHWAY PURPOSES BY DOCUMENT 94K015935; THENCE SOUTH 89 DEGREES 10 MINUTES 33 SECONDS EAST ALONG SAID SOUTHERLY LINE 25.01 FEET TO THE EASTERLY RIGHT OF WAY LINE OF STATE HIGHWAY ROUTE 47 AS PER SAID DOCUMENT 93K49327; THENCE NORTH 0 DEGREES 09 MINUTES 31 SECONDS EAST ALONG SAID EASTERLY LINE, 56.06 FEET TO THE SOUTHWEST CORNER OF CHELSEA AVENUE AS DEDICATED BY PLAT OF DEDICATION RECORDED JULY 2, 1993 AS DOCUMENT 93K49327 AND REDEDICATED BY SAID PLAT OF CHELSEA MEADOWS PHASE 2; THENCE NORTHERLY AND EASTERLY ALONG THE SOUTHERLY LINE OF SAID CHELSEA AVENUE, BEING ON A CURVE TO THE RIGHT HAVING A RADIUS OF 25.0 FEET AND A LONG CHORD BEARING OF NORTH 43 DEGREES 31 MINUTES 05 SECONDS EAST, FOR AN ARC DISTANCE OF 38.40 FEET; THENCE NORTH 87 DEGREES 30 MINUTES 52 SECONDS EAST ALONG SAID SOUTHERLY LINE, 61.49 FEET; THENCE CONTINUING EASTERLY ALONG SAID SOUTHERLY LINE, BEING ON A CURVE TO THE RIGHT HAVING A RADIUS OF 3,415.18 FEET AND A LONG CHORD BEARING OF NORTH 89 DEGREES 31 MINUTES 40 SECONDS EAST, FOR AN ARC DISTANCE OF 239.77 FEET; THENCE SOUTH 88 DEGREES 29 MINUTES 49 SECONDS EAST ALONG SAID SOUTHERLY LINE, 100.51 FEET TO THE PLACE OF BEGINNING, IN THE VILLAGE OF SUGAR GROVE, KANE COUNTY, ILLINOIS

PLANS PREPARED FOR:

BEAR DEVELOPMENT, INC
4011 80TH STREET
KENOSHA, WI 53142
262-842-0456

PLANS PREPARED BY:



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CURRENT REVISION DATE: OCTOBER 31, 2017

I, CHRISTOPHER M. LAVOIE, A REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY C.M. LAVOIE AND ASSOCIATES, INC. UNDER MY PERSONAL DIRECTION.

ILLINOIS PROFESSIONAL ENGINEER NO.
0062-049582 EXPIRES 11/30/17

PROJECT NUMBER: 17-228

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△ REVISED PLANS PER VILLAGE COMMENTS DATED 10-12-17.

- 1. REVISED PLAN SHEET LIST
- 2. ADDED BENCHMARK DATUM.

GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL

2. THE VILLAGE OF SUGAR GROVE "STANDARD SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS AND PRIVATE SITE DEVELOPMENT" LATEST EDITION SHALL APPLY TO ALL CONSTRUCTION WORK.

3. THE STANDARD SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED PART OF THE CONTRACT.

4. THE CONTRACTORS FOR ALL CONTRACTS SHALL NOTIFY J.U.L.L.I.E., THE SANITARY DISTRICT, AND ANY APPLICABLE ENGINEERING OR BUILDING DEPARTMENTS TWO (2) WORKING DAYS MINIMUM PRIOR TO START OF WORK AS REQUIRED. THE UTILITY COMPANIES WILL ESTABLISH ON THE GROUND THE LOCATION OF UNDERGROUND PIPES, CONDUITS OR CABLES ADJOINING OR CROSSING PROPOSED CONSTRUCTION.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY THAT UNDERGROUND CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", ADOPTED JULY 2009 OR LATEST REVISION.

6. ALL EXCAVATION WORK SHALL COMPLY WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012 OR LATEST REVISION.

7. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, THE VILLAGE OF SUGAR GROVE AND THEIR AGENTS FROM ALL LIABILITY INVOLVED IN THE CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.

8. WHEN A CONFLICT BETWEEN PLANS AND SPECIFICATIONS OR NOTES OCCURS, THE ENGINEER SHALL DECIDE WHICH GOVERNS. GENERALLY, THE MORE RESTRICTIVE, MORE SPECIFIC OR STRICTER PROVISION SHALL GOVERN.

9. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OR MATERIAL THAT IS FROM THE PROJECT. THE CONTRACTOR SHALL CLEAN THE STREETS ON A DAILY BASIS. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS MAY BE REQUIRED DUE TO FIELD CONDITIONS.

11. THE CONTRACTOR IS TO VERIFY ALL ELEVATIONS PRIOR TO THE START OF WORK AND, IF THERE ARE ANY DISCREPANCIES, TO NOTIFY THE DESIGN ENGINEER AT ONCE. NO WORK SHALL BE DONE UNTIL THE DISCREPANCIES ARE RESOLVED.

12. THE CONTRACTOR IS RESPONSIBLE FOR THE TRAFFIC CONTROL AND PROTECTION OF ALL WORK CONDUCTED WITHIN PUBLIC RIGHT-OF-WAYS. SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARTICLES OF SECTION 100 AND 200 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012, AND THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".

13. WHENEVER DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE 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.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. ALL SAFETY REQUIREMENTS PROVIDED BY THE VILLAGE OF SUGAR GROVE AND/OR OSHA SHALL BE ADHERED TO BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS.

15. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING, OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.

16. ALL CONSTRUCTION WILL BE INSPECTED BY THE VILLAGE OF SUGAR GROVE ENGINEER OR HIS REPRESENTATIVE. SPECIFICALLY ALL TRENCHES AND SEWERS SHALL BE LEFT OPEN BUT SAFELY BARRICADED UNTIL INSPECTED AND APPROVED BY THE VILLAGE OF SUGAR GROVE ENGINEER. PAVEMENT SUBBASE, BASE, AND SURFACE MUST EACH BE INSPECTED BY THE ENGINEER PRIOR TO THE NEXT PHASE OF WORK. PROOF ROLLING AND NUCLEAR DENSITY TESTING WILL BE UTILIZED.

17. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

18. THE CONTRACTOR IS TO VERIFY ALL FIELD CONDITIONS, PROPOSED IMPROVEMENTS, AND ELEVATIONS PRIOR TO THE START OF WORK AND, IF THERE ARE ANY DISCREPANCIES, IS TO NOTIFY THE DESIGN ENGINEER AT ONCE. NO WORK SHALL BE DONE UNTIL THE DISCREPANCIES ARE RESOLVED.

19. ALL SHRUBS, TOPSOIL, OR EXCAVATION MATERIAL AND ANY OTHER UNSUITABLE MATERIAL SHALL BE REMOVED AND DISPOSAL OF AT AN OFF-SITE LOCATION. AREAS WHICH ARE TO BE FILLED SHALL BE COMPACTED TO A MAXIMUM DENSITY OF 98% AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST. T-180-74, (ASTM-D-1557) IN PAVED AREAS. THE OWNER'S SOILS ENGINEER SHALL EVALUATE AND APPROVE THE EXCAVATION, FILL PLACEMENT, AND COMPACTION PRIOR TO PAVEMENT CONSTRUCTION. THE CONTRACTOR SHALL GIVE THE GOVERNING AUTHORITIES HAVING JURISDICTION OVER THE WORK FORTY-EIGHT (48) HOURS NOTICE BEFORE WORK COMMENCES.

20. ANY WATER AND WASTEWATER UTILITIES AFFECTED BY CONSTRUCTION, INCLUDING GRASSES, MUST BE BROUGHT TO CURRENT VILLAGE OF SUGAR GROVE STANDARDS AT THE CONTRACTOR'S EXPENSE.

21. EXISTING UTILITIES, TREES, STREETS, AND PRIVATE PROPERTY SHALL BE PROTECTED DURING CONSTRUCTION BY THE CONTRACTOR. ANY DAMAGES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

22. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL AT AREAS DESIGNATED ON THE SITE PLAN. ADDITIONAL MEASURES SHALL BE PROVIDED AS DEEMED NECESSARY BY THE VILLAGE OF SUGAR GROVE OR THE DESIGN ENGINEER AT CONTRACTOR'S EXPENSE.

23. ALL HANDICAP PROVISIONS SHALL BE IN ACCORDANCE WITH THE "AMERICAN DISABILITIES ACT" (ADA) DATED SEPTEMBER 15, 2010 OR LATEST REVISION.

24. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINATION OF THE ENGINEERING PLANS AND SPECIFICATIONS AND THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING A BID, AND NOTIFYING THE ENGINEER AT ONCE OF ANY DISCREPANCIES.

25. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS NOT PREVIOUSLY APPLIED FOR BY THE OWNER AND POSTING OF THE NECESSARY BONDS.

26. THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATION OF THE START OF CONSTRUCTION TO ALL JURISDICTIONAL AGENCIES, UTILITY COMPANIES, AND THE ENGINEER, AT LEAST TWO (2) WORKING DAYS PRIOR TO SAID START. ALL EXISTING UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION. VILLAGE OF SUGAR GROVE ENGINEERING DIVISION SHALL BE NOTIFIED 48 HRS. IN ADVANCE.

27. THE CONTRACTOR IS RESPONSIBLE FOR CALLING ATTENTION TO THE OWNER OF ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES WHICH ARE ESTABLISHED BY THE OWNER. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THE LINES AND GRADES, WHICH ARE BELIEVED TO BE IN ERROR, HAVE BEEN VERIFIED OR CORRECTED BY THE OWNER. ADDITIONAL STAKING THAT MAY BE REQUIRED DUE TO THE CONTRACTOR NEGLIGENCE SHALL BE PAID FOR BY THE CONTRACTOR.

28. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND HEALTHFUL WORKING CONDITION THROUGHOUT THE PROSECUTION OF THE CONSTRUCTION WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: THE REMOVAL OF DEBRIS, THE PROTECTING OF CONSTRUCTION BARRICADES, AND THE KEEPING OF PUBLIC STREET PAVEMENTS CLEAN OF CONSTRUCTION DIRT AND DEBRIS, SECURING OPEN EXCAVATIONS, AND FOLLOWING ALL SAFETY MEASURES REQUIRED BY THE GOVERNING AUTHORITIES.

29. THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION TO THE ORIGINAL CONDITION OR BETTER OF ANY OFF SITE AREAS THAT ARE DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION.

30. THE CONTRACTOR IS RESPONSIBLE FOR THE TESTING OF MATERIALS, IF REQUIRED BY THE OWNER AND/OR

THE JURISDICTIONAL AGENCIES.

31. THE CONTRACTOR IS RESPONSIBLE FOR THE GUARANTEE OF ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR UPON FINAL ACCEPTANCE BY THE OWNER AND THE JURISDICTIONAL AGENCIES.

32. ALL LANDSCAPE, SOIL AND SEEDING AREAS SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL TO ACHIEVE THE FINAL GRADES SHOWN ON THE FINAL ENGINEERING PLANS.

33. UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT, BUILDING, AND/OR LOAD BEARING STRUCTURES AS DETERMINED BY THE SOILS ENGINEER. THE DESIGN ENGINEER TO REMOVE SAID MATERIAL, AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.

34. THE QUANTITIES AS SHOWN IN THE ENGINEER'S "QUANTITY ESTIMATE" ARE THOSE ESTIMATED BY THE ENGINEER AND ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR BY CHOOSING TO UTILIZE THESE QUANTITIES IN THE PREPARATION OF HIS "LUMP SUM" BID, ALSO ACCEPTS THEIR ACCURACY. THE CONTRACTOR IS THEREFORE ENCOURAGED TO MAKE HIS OWN INDEPENDENT EARTHWORK CALCULATION, AND TO VISIT THE SITE PRIOR TO THE PREPARATION OF HIS BID.

35. CONDUIT TO BE PROVIDED UNDER PAVEMENT FOR ALL SERVICE UTILITIES SUCH AS, BUT NOT LIMITED TO GAS, ELECTRIC, TELEPHONE, AND CABLE AS DEEMED NECESSARY BY THE OWNER. ALL CONDUIT SHALL MEET UTILITY COMPANY SPECIFICATIONS. ALL SPECIFICATIONS SHALL BE CONFIRMED WITH THE UTILITY COMPANY PRIOR TO INSTALLATION, AND AS DEEMED NECESSARY BY THE OWNER. ALL CONDUIT SHALL MEET UTILITY COMPANY SPECIFICATIONS. CONDUIT SHOWN HEREIN IS APPROXIMATE IN SIZE AND LOCATION. ALL SPECIFICATIONS SHALL BE CONFIRMED WITH THE UTILITY COMPANY PRIOR TO INSTALLATION.

36. GRADE ADJUSTMENTS ARE ANTICIPATED TO OCCUR IN THE FIELD AND ARE CONSIDERED INCIDENTAL TO THE CONTRACT COST. ALL WORK AFFECTED BY GRADE ADJUSTMENTS SHALL LIABTY FOR DESIGN ENGINEER NOTIFIED FOR ACCEPTABLE SOLUTION. GENERAL CONTRACTOR TO ASSUME ALL LIABILITY FOR CONTINUING WORK PROGRESS.

EARTHWORK IMPROVEMENTS

TOPSOIL EXCAVATION INCLUDES: 1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL, IN ORDER TO ACHIEVE THE PLAN SUB GRADE ELEVATIONS.

2. PLACEMENT OF THE EXCAVATED MATERIAL IN OWNER DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL.

3. COMPACTION OF THE EXCAVATED MATERIAL WHERE PLACED IN AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL, SHALL BE MODERATE.

4. EXCESS MATERIALS IF NOT UTILIZED AS FILL OR IF NOT STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTOR.

EARTH EXCAVATION INCLUDES:

1. EXCAVATION OF EARTH AND OTHER MATERIALS ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN THE TOLERANCE OF 0.3 FEET (+/-) OF THE PLAN SUBGRADE ELEVATIONS. THE (+/-) TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIAL SHALL "BALANCE" AS PART OF THE FINE GRADING OPERATION.

2. PLACEMENT OF THE EARTH AND OTHER SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.3 FEET (+/-). THE MATERIAL SHALL BE PLACED (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE THE REQUIRED COMPACTION. EARTH MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE BUILDING SITE NOT REQUIRING STRUCTURAL FILL, TO WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THE EARTH MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.

3. COMPACTION OF THE EARTH AND OTHER SUITABLE MATERIALS, SHALL BE TO AT LEAST 95% OF THE STANDARD PROCTOR DRY DENSITY, ASTM 698 WITHIN PROPOSED PAVEMENT AND BUILDING AREAS. MODERATE COMPACTION IS REQUIRED ELSEWHERE.

4. EXCESS MATERIAL IF NOT UTILIZED AS FILL, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTORS.

GENERAL EARTHWORK CONTRACTOR SHALL:

1. MAINTAIN PROPER SITE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION, AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.

2. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.

3. SCARIFY AND COMPACT TO THE DEGREE SPECIFIED THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL, IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

4. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

5. BE RESPONSIBLE FOR IMPLEMENTATION OF THE "STORMWATER POLLUTION PREVENTION PLAN" AS ASSIGNED TO THE EARTHWORK CONTRACTOR ON THE ENGINEERING PLAN.

6. GRADE PUBLIC UTILITY EASEMENTS TO MEET THE REQUIREMENTS OF THE LOCAL PUBLIC UTILITY COMPANIES.

7. ALL FILL MATERIAL IMPORTED ON-SITE MUST MEET THE FOLLOWING REQUIREMENTS:

- 1.) FILL MUST BE IMPORTED FROM ONE LOCATION.
2.) CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE FOLLOWING DOCUMENTATION FOR EACH LOAD OF CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) OR UNCONTAMINATED SOIL RECEIVED:
a.) HAULER NAME, SITE OF ORIGIN, ADDRESS, OWNER OR OPERATOR OF THE SITE OF ORIGIN;
b.) WEIGHT IN TONS OR VOLUME IN CUBIC YARDS; AND
c.) DATE RECEIVED.

3.) CONTRACTOR IS RESPONSIBLE TO OBTAIN FOR ALL SOIL:
a.) CERTIFICATION FROM THE OWNER OR OPERATOR OF THE SITE OF ORIGIN THAT THE SITE HAS NEVER BEEN USED FOR COMMERCIAL OR INDUSTRIAL PURPOSES AND IS PRESUMED TO BE UNCONTAMINATED SOIL; OR
b.) CERTIFICATION FROM A LICENSED PROFESSIONAL ENGINEER THAT THE SOIL IS UNCONTAMINATED.

4.) CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT THE COOD OR UNCONTAMINATED SOIL WAS NOT REMOVED FROM A SITE AS PART OF A CLEAN-UP OR REMOVAL.

5.) CONTRACTOR IS RESPONSIBLE TO VISUALLY INSPECT AND SCREEN EACH LOAD OF SOIL WITH A DEVICE SUCH AS A PHOTONIZATION DETECTOR, FLAME IONIZATION DETECTOR OR ANOTHER DEVICE APPROVED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, BUREAU OF LAND, THAT DETECTS VOLATILE ORGANIC COMPOUNDS (ALREADY REQUIRED OF PERMITTED COOD FILL OPERATIONS);

6.) CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL CHEMICAL ANALYSIS ACTIVITIES ASSOCIATED WITH TESTING OF THE COOD OR UNCONTAMINATED SOIL, WHICH MUST INCLUDE, BUT IS NOT LIMITED TO:
a.) COPY OF THE LAB ANALYSIS;
b.) LABORATORY ACCREDITATION STATUS; AND
LABORATORY AUTHORIZED AGENT CERTIFICATION.

TESTING AND FINAL ACCEPTANCE

1. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM, A FULLY LOADED SIX-WHEEL TRUCK (10 TON MIN.) FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER AND THE BASE MATERIAL.

2. SPECIFIC COMPACTION TESTING MAY BE REQUIRED BY THE OWNER IN SELECTED FILL AREAS. THE CONTRACTOR SHALL BEAR THE COST OF ANY COMPACTION TESTING WHICH DOES NOT MEET SPECIFICATION AS WELL AS THE RESPONSIBILITY AND COST FOR THE NECESSARY CORRECTION(S).

3. APPROVAL OF THE PAVEMENT SUBGRADE BY THE OWNER SHALL BE REQUIRED PRIOR TO THE PLACEMENT OF THE PAVEMENT MATERIALS.

METHOD OF MEASUREMENT

AS-BUILT MEASUREMENTS OF EARTHWORK FOR THE PURPOSE OF PAYMENT SHALL NOT APPLY. THE QUANTITIES SHOWN IN THE ENGINEER'S "QUANTITY ESTIMATE" SHALL BE UTILIZED UNLESS SAID QUANTITIES ARE ADJUSTED BY MUTUAL CONSENT OR BY THE OWNER AND CONTRACTOR PRIOR TO THE SIGNING AND ACCEPTANCE OF THE CONTRACT.

2. THE QUANTITIES AS SHOWN IN THE ENGINEER'S "QUANTITY ESTIMATE" ARE THOSE ESTIMATED BY THE ENGINEER AND PROVIDED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR BY CHOOSING TO UTILIZE THESE QUANTITIES IN THE PREPARATION OF HIS "LUMP SUM" BID, ALSO ACCEPTS THEIR ACCURACY. THE CONTRACTOR IS THEREFORE ENCOURAGED TO MAKE HIS OWN INDEPENDENT EARTHWORK CALCULATION, AND TO VISIT THE SITE PRIOR TO PREPARATION OF HIS BID.

3. PRIOR TO THE REMOVAL OF UNSUITABLE MATERIAL, THE CONTRACTOR SHALL NOTIFY OWNER FOR AUTHORIZATION. UPON AUTHORIZATION, THE UNSUITABLE MATERIAL SHALL BE FIELD MEASURED BY THE ENGINEER IN PLACE.

VILLAGE OF SUGAR GROVE GENERAL NOTES REVISED MAY 2017

1. A PRECONSTRUCTION MEETING SHALL BE HELD PRIOR TO THE START OF ANY CONSTRUCTION, INCLUDING THE INSTALLATION OF TREE PROTECTION AND SOIL EROSION CONTROL MEASURES. THE CONTRACTOR SHALL NOTIFY THE VILLAGE ENGINEER A MINIMUM OF 10 DAYS IN ADVANCE OF STARTING ANY WORK. THE VILLAGE ENGINEER WILL ATTEND THE PRECONSTRUCTION MEETING WITH THE VILLAGE STAFF, FIRE DISTRICT, POLICE DEPARTMENT, AND KANE COUNTY DEPARTMENT OF TRANSPORTATION. THE VILLAGE ENGINEER, OWNER, GENERAL CONTRACTOR, AND ALL MAJOR SUBCONTRACTORS SHALL ATTEND THE MEETING.

2. IN ADDITION TO THE FORMAL PRECONSTRUCTION MEETING AT THE BEGINNING OF THE PROJECT, A PRECONSTRUCTION MEETING SHALL BE HELD ON SITE BEFORE EACH MAJOR WORK ITEM (I.E. UNDERGROUND WORK, CURBS AND GUTTERS, GENERAL CONTRACTOR AND THE FOREMAN TO COMPLETE THE WORK SHALL ATTEND THE MEETING AT A MINIMUM. THE VILLAGE ENGINEER SHALL BE CONTACTED 48 HOURS IN ADVANCE OF THE MEETING SO THAT THE MEETING CAN BE COORDINATED WITH THE APPROPRIATE PUBLIC WORKS STAFF MEMBERS.

3. THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION AND REVISIONS, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION AND REVISIONS THERETO, THESE IMPROVEMENT PLANS AND DETAILS, SPECIAL PROVISIONS AND CODES AND ORDINANCES OF THE VILLAGE OF SUGAR GROVE, ILLINOIS SHALL GOVERN APPLICABLE PORTIONS OF THIS PROJECT.

4. LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY, AND ARE NOT NECESSARILY COMPLETE. CONTRACTOR SHALL MAKE THEIR OWN INVESTIGATIONS AS TO LOCATION OF ALL EXISTING UNDERGROUND STRUCTURES, CABLES, UTILITIES AND PIPE LINES.

5. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND VILLAGE SO THAT THE CONFLICT MAY BE RESOLVED.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER, THE VILLAGE, AND/OR THE UTILITY COMPANY BY THE CONTRACTOR AT THEIR OWN EXPENSE.

7. THE CONTRACTOR SHALL NOTIFY J.U.L.L.I.E. (1-800-892-0123) AT LEAST TEN DAYS PRIOR TO EXCAVATION OF ANY UTILITY THAT EACH UTILITY COMPANY CAN STAKE OUT ANY UNDERGROUND IMPROVEMENTS THAT THEY MAY HAVE WHICH MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION.

8. THE CONTRACTOR SHALL BE REQUIRED TO MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS, STRUCTURES, POLES, CABLES AND PIPE LINES, BEFORE CONSTRUCTION BEGINS. THEY SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER AND VILLAGE AT THEIR OWN EXPENSE.

9. THE CONTRACTOR SHALL OBTAIN, ERECT, MAINTAIN AND REMOVE ALL SIGNS, BARRICADES, FLAGGERS AND OTHER TRAFFIC CONTROL DEVICES AS MAY BE NECESSARY FOR THE PURPOSE OF REGULATING, WARNING, OR GUIDING TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PARTS OF ARTICLE 107.14 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND HEALTHFUL WORKING CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. ADEQUATE TEMPORARY SANITARY FACILITIES SHALL BE PROVIDED.

11. BEFORE ACCEPTANCE AND RELEASE OF THE SURETY BY THE VILLAGE AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE VILLAGE ENGINEER AND VILLAGE.

12. SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBJECT. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT, SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVE CONTROL OF ALL WORK AS THE AGENT OF THE CONTRACTOR, FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE CONTRACTOR WILL HAVE IN THEIR POSSESSION ON THE JOB SITE AT ALL TIMES A COPY OF THE PLANS AND SPECIFICATIONS DURING CONSTRUCTION.

13. THE CONTRACTOR SHALL RESTORE ANY AREA DISTURBED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL USE. THIS SHALL INCLUDE FINISH GRADING, ESTABLISHMENT OF A VEGETATIVE COVER (SEEDING OR SOD), GENERAL CLEANUP AND PAVEMENT REPLACEMENT. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION AND SHALL REPAIR ANY DRAINAGE FACILITIES DAMAGED DURING CONSTRUCTION.

14. THE DEVELOPER/CONTRACTOR SHALL KEEP PUBLIC STREETS FREE AND CLEAN OF DIRT AND DEBRIS, AND, WHEN NECESSARY CLEAN PAVEMENTS ON A DAILY BASIS OR AS DIRECTED BY THE VILLAGE.

15. NO EXCAVATION SHALL REMAIN OPEN OVER ANY WEENHD.

16. WITH THE EXCEPTION OF CURB INLETS, UTILITY STRUCTURES SHALL NOT BE CONSTRUCTED IN PAVED AREAS, INCLUDING ROADWAYS, SIDEWALKS, CURB AND GUTTER, AND/OR TRAILS.

17. TRENCH BACKFILL SHALL BE PROVIDED AT ALL UTILITY TRENCHES AND REMOVAL OF UTILITY TRENCHES IN ALL PAVED AREAS AND 2 FEET BEYOND, INCLUDING ROADWAYS, CURBS AND GUTTER, SIDEWALKS, AND DRIVEWAYS. INITIAL BEDDING AND BEDDING SHALL BE GRADED CA-7 STONE. THE FINAL TRENCH BACKFILL SHALL BE CA-7 CRUSHED AGGREGATE AND SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED IN PLACE TO NINETY FIVE PERCENT (95%) OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE MODIFIED STANDARD PROCTOR TEST.

18. ALL ROUGH GRADING SHALL BE COMPLETED WITHIN 1 FOOT OF THE FINAL GRADE PRIOR TO CONSTRUCTION OF ANY UNDERGROUND UTILITY WITH THE EXCEPTION OF STORM SEWERS AND SANITARY SEWERS.

19. CURB PROTECTION IS REQUIRED AT ALL TIMES.

20. TREE PROTECTION AND EROSION CONTROL ITEMS SHALL BE INSTALLED ON SITE PRIOR TO THE START OF ANY CONSTRUCTION.

21. MARKING OF VALVE BOXES, BUFFALO BOXES AND MANHOLES: ALL MAIN LINE VALVE BOXES, BUFFALO BOXES AND MANHOLES SHALL BE MARKED AT THE TIME OF CONSTRUCTION WITH A FOUR INCH BY FOUR INCH (4" X 4") HARDWOOD POST NEATLY INSTALLED VERTICALLY WITH A MINIMUM THREE FEET (3') BURY AND A MINIMUM FOUR FEET (4') EXPOSED. THE TOP ONE FOOT (1') OF THE POST SHALL BE PAINTED AS FOLLOWS: BLUE FOR WATER AND GREEN FOR SEWERS.

22. ALL FINAL ADJUSTING OF CASTINGS WILL BE ACCOMPLISHED BY THE USE OF CONCRETE ADJUSTING RINGS SET IN BUTT, ROPE JOINT SEALANT; MORTAR JOINTS WILL NOT BE ALLOWED. HEIGHT OF ADJUSTING RINGS SHALL NOT EXCEED TEN INCHES (10"). SEE THE STORM SEWER DETAILS FOR CURB INLET HYDRAULIC CEMENT FILLING PROCEDURE.

23. ALL PARKWAYS WITHIN THE DEDICATED STREET RIGHT OF WAY SHALL BE GRADED, TOPSOIL PLACED TO A MINIMUM THICKNESS OF SIX INCHES (6"). EROSION CONTROL BLANKET PLACED, AND SEEDED (CLASS 1A MIXTURE UNLESS OTHERWISE SPECIFIED), OR SOODED IN AN APPROVED MANNER.

24. ABSOLUTELY NO SUBSTITUTIONS OR VARIANCES WILL BE PERMITTED TO ANY OF THE VILLAGE OF SUGAR GROVE STANDARDS, NOTES OR ORDINANCES UNLESS APPROVED OTHERWISE BY THE VILLAGE IN WRITING PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.

25. ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.

26. NEITHER THE ENGINEER, NOR THE VILLAGE, SHALL ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR THE SUBCONTRACTORS. ADDITIONALLY, NEITHER THE ENGINEER, NOR THE VILLAGE, SHALL ADVISE ON, OR ISSUE DIRECTIONS CONCERNING ASPECTS OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND/OR PROGRAMS IN CONNECTION WITH THE WORK.

27. THE CONTRACTOR SHALL REPLACE ALL LOT RINGS UNNECESSARILY DAMAGED OR REMOVED DURING CONSTRUCTION OF THIS PROJECT AND THE CONTRACTOR SHALL PAY SAID COST OF REPLACEMENT.

28. THE CONTRACTOR SHALL DISPOSE OF ALL EXCESS EXCAVATION, UNSUITABLE AND UNSALEABLE MATERIALS OFFSITE AND AT AN APPROVED LOCATION IN A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED. THIS WORK SHALL BE IN ACCORDANCE WITH THE CURRENT IEPA DISPOSAL REQUIREMENTS.

29. EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN THE VILLAGE'S RIGHT-OF-WAY AT ANY TIME WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE VILLAGE.

VILLAGE OF SUGAR GROVE WATER MAIN CONSTRUCTION REVISED MAY 2017

1. ALL WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION AND REVISIONS THERETO, THESE IMPROVEMENT PLANS AND DETAILS, SPECIAL PROVISIONS AND IN ACCORDANCE WITH THE VILLAGE OF SUGAR GROVE, ILLINOIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER AND VILLAGE AT THEIR OWN EXPENSE.

2. ALL WATER MAIN SHALL BE DUCTILE IRON PIPE CLASS 52 WITH EITHER MECHANICAL OR PUSH-ON JOINTS AND SHALL CONFORM TO ANSI A21.51, AWWA C151 AND ANSI A21.11, AWWA C111. PIPE SHALL BE MANUFACTURED IN THE UNITED STATES.

6. ALL PIPE AND FITTINGS SHALL BE CEMENT LINED WITH CONFORMANCE WITH ANS/AWWA C104142.4.

7. ALL FITTINGS SHALL BE MECHANICAL JOINT AND INSTALLED WITH RETAINER GLAND UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

8. LONG RADIUS CURVES, EITHER HORIZONTAL OR VERTICAL, MAY BE LAID WITH STANDARD PIPE BY DEFLECTIONS AT THE JOINTS. MAXIMUM DEFLECTIONS AT PIPE JOINTS AND LAYING RADII FOR THROUGH CURVES SHALL BE AS SHOWN ON THE DRAWINGS. WHEN RUBBER GASKETED PIPE IS LAID ON A CURVE, THE PIPE SHALL BE JOINTED IN A STRAIGHT ALIGNMENT AND THEN DEFLECTED TO THE CURVED ALIGNMENT. TRENCHES SHALL BE MADE WIDER ON CURVES.

9. SLEEVES SHALL BE ROCKWELL D1 COUPLING TYPE 441, TYLER UNION OR APPROVED EQUAL. SLEEVES SHALL BE PROVIDED AT LOCATIONS SHOWN ON THE PLANS OR AS REQUIRED. THE COST OF SLEEVES IS CONSIDERED AS INCIDENTAL TO THE COST OF THE PROJECT.

10. ALL GATE VALVES SHALL HAVE A NON-RISING STEM, SHALL HAVE A STANDARD OPERATING NUT AND SHALL OPEN IN A COUNTER-CLOCKWISE DIRECTION. GATE VALVES SHALL BE AMERICAN FLOW CONTROL SERIES 2800 COMPACT DUCTILE IRON MECHANICAL JOINT TAPPING VALVE AND TWO 2" (2") HOE OUTLETS, OF WHICH THE THREADS CONFORM WITH THE STANDARDS OF THE VILLAGE OF SUGAR GROVE. THE VALVE SHALL BE PROVIDED WITH A 1/2" STEAMER NOZZLE AND TWO 2" (2") HOE OUTLETS, OF WHICH THE THREADS CONFORM WITH THE STANDARDS OF THE VILLAGE OF SUGAR GROVE. INSTALLATIONS SHALL HAVE 5.5" DEPTH OF COVER. FIRE HYDRANTS SHALL BE PLACED 3 FOOT FROM THE BACK OF CURB TO THE CENTER OF THE HYDRANT, OR WHERE THERE IS NO CURB AND GUTTER SHALL BE PLACED 4 FOOT FROM THE BACK OF CURB TO THE CENTER OF THE HYDRANT. ROAD EDGE, CENTER LINE OF PUMPER NOZZLE SHALL BE EIGHTEEN INCHES (18") TO TWENTY INCHES (20") ABOVE FINISH GRADE LINE (SIDEWALK TO CURB).

11. ALL FIRE HYDRANT VALVE BOXES SHALL BE HEAVY WALL, HIGH DENSITY POLYETHYLENE AMERICAN FLOW CONTROL TRENCH ADAPTERS. LIDS TO BE MARKED "WATER" (VALVE BOX EXTENSIONS IF REQUIRED ARE CONSIDERED INCIDENTAL). OPEN GRADED (CA-7) LIMESTONE SHALL BE UTILIZED TO BACKFILL AROUND THE OPERATING NUT ON ALL VALVE BOXES TO PREVENT MUD FROM PENETRATING THE VALVE BOXES.

12. ALL HYDRANTS SHALL BE IN ACCORDANCE WITH SECTION FOUR (4) OF AWWA C502-54 STANDARD AND SHALL BE AN AMERICAN FLOW CONTROL/WATERWORKS PUMPER MODEL NO. 48 AND SHALL BE CONSTRUCTED IN 2500 (5) FOOT MINIMUM DIAMETER VALVE VAULT. THE VALVE SHALL BE CONSTRUCTED IN 2500 (5) FOOT MINIMUM DIAMETER VALVE VAULT. THE VALVE SHALL BE CONSTRUCTED IN 2500 (5) FOOT MINIMUM DIAMETER VALVE VAULT. THE VALVE SHALL BE CONSTRUCTED IN 2500 (5) FOOT MINIMUM DIAMETER VALVE VAULT. THE VALVE SHALL BE CONSTRUCTED IN 2500 (5) FOOT MINIMUM DIAMETER VALVE VAULT.

13. ALL FIRE HYDRANTS ALONG A POTABLE WATER MAIN SHALL BE FACTORY PAINTED RED. ALL FIRE HYDRANTS ALONG A RAW WATER MAIN SHALL BE FACTORY PAINTED EMERALD GREEN WITH THE PAINT #4457 BY MCGRAW HILL.

14. ALL MECHANICAL JOINT FITTINGS, VALVES AND HYDRANTS SHALL BE RESTRAINED WITH RETAINER GLANDS. ALL HYDRANTS SHALL BE BRAKED RINGS 1100 MEDIUM OR APPROVED EQUAL. THE VILLAGE ENGINEER SHALL WITHNESS ALL RESTRAINED JOINTS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AN ADJUSTABLE GATE VALVE. HYDRANT BACKFILLING SUCH WATER SYSTEM IMPROVEMENTS, SHOULD THE SYSTEM BE BACKFILLED PRIOR TO INSPECTION, THE RESTRAINT SYSTEM WILL HAVE TO BE EXCAVATED BY THE CONTRACTOR FOR INSPECTION AT NO COST TO THE VILLAGE OF SUGAR GROVE.

15. ALL PRESSURE TAPS TO AN EXISTING VILLAGE MAIN SHALL BE MADE WITH AN AMERICAN FLOW CONTROL SERIES 2800 COMPACT DUCTILE IRON MECHANICAL JOINT TAPPING VALVE AND TWO 2" (2") HOE OUTLETS, OF WHICH THE THREADS CONFORM WITH THE STANDARDS OF THE VILLAGE OF SUGAR GROVE. THE VALVE SHALL BE PROVIDED WITH A 1/2" STEAMER NOZZLE AND TWO 2" (2") HOE OUTLETS, OF WHICH THE THREADS CONFORM WITH THE STANDARDS OF THE VILLAGE OF SUGAR GROVE. INSTALLATIONS SHALL HAVE 5.5" DEPTH OF COVER. FIRE HYDRANTS SHALL BE PLACED 3 FOOT FROM THE BACK OF CURB TO THE CENTER OF THE HYDRANT, OR WHERE THERE IS NO CURB AND GUTTER SHALL BE PLACED 4 FOOT FROM THE BACK OF CURB TO THE CENTER OF THE HYDRANT. ROAD EDGE, CENTER LINE OF PUMPER NOZZLE SHALL BE EIGHTEEN INCHES (18") TO TWENTY INCHES (20") ABOVE FINISH GRADE LINE (SIDEWALK TO CURB).

16. ALL TEES, BENDS, VALVES, AND FIRE HYDRANTS SHALL BE ADEQUATELY SUPPORTED WITH A CONCRETE BASE, AND SUPPORTED Laterally WITH PRECAST CONCRETE THRUST BLOCKING (NOT POURED-IN-PLACE) AGAINST UNDISTURBED EARTH. THE VILLAGE ENGINEER SHALL WITHNESS ALL TAPPING OPERATIONS AND THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE VILLAGE ENGINEER PRIOR TO BACKFILLING THE WATER SYSTEM IMPROVEMENTS. SHOULD THE SYSTEM BE BACKFILLED PRIOR TO INSPECTION, THE RESTRAINT SYSTEM WILL HAVE TO BE EXCAVATED BY THE CONTRACTOR FOR INSPECTION AT NO COST TO THE VILLAGE OF SUGAR GROVE.

VILLAGE OF SUGAR GROVE
STANDARD NOTES FOR PARKING LOT CONSTRUCTION

- CONSTRUCTION MATERIALS AND METHODS FOR PARKING LOT CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
- PRIOR TO THE CONSTRUCTION OF ANY PARKING LOT PAVEMENT, ALL OF THE MAJOR UNDERGROUND WORK SHALL BE COMPLETELY INSTALLED.
- THE VILLAGE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO THE POURING OF THE CURB AND GUTTER IN ORDER TO REVIEW THE AGGREGATE BASE AND STRING LINE/FORMWORK OF THE CURB AND GUTTER. THE CURB AND GUTTER WITHIN THE PARKING LOT SHALL BE COMPLETED IN A MONOLITHIC INSTALLATION UNLESS PREVIOUSLY APPROVED BY THE VILLAGE ENGINEER.
- CURING AND WEATHER PROTECTION OF ALL EXPOSED CONCRETE SURFACES SHALL BE IN ACCORDANCE WITH THE DOT STANDARD SPECIFICATIONS, LATEST EDITION, INCLUDING ANY REVISIONS. NO HONEYCOMBING OF THE CONCRETE WILL BE ACCEPTED.
- PROOF ROLLS ARE REQUIRED ON THE SUB-GRADE, AGGREGATE BASE, AND THE BINDER COURSE, AND SHALL BE WITNESSED BY THE VILLAGE ENGINEER. THE VILLAGE ENGINEER SHALL BE PROVIDED A MINIMUM OF 48 HOURS ADVANCED NOTICE PRIOR TO THE PROOF ROLL. EACH PROOF ROLL SHALL BE AT THE COST OF THE CONTRACTOR AND SHALL BE TO THE SATISFACTION OF THE VILLAGE ENGINEER AS FOLLOWS:
 - A LOADED TRUCK PROVIDED BY THE CONTRACTOR SHALL BE DRIVEN OVER THE AREA TO BE TESTED AT A SPEED PATTERN AND NUMBER OF CYCLES TO BE DETERMINED BY THE VILLAGE ENGINEER. THE TEST TRUCK SHALL BE THE COMMON TRACTOR TRAILER TYPE WITH NO MORE THAN FIVE (5) AXLES WITH A TOTAL OF EIGHTEEN (18) WHEELS LOADED TO A NET WEIGHT OF NO LESS THAN TWENTY-TWO (22) TONS. THE LOAD TICKET SHALL BE PROVIDED TO THE VILLAGE ENGINEER FOR RECORD.
 - ANY UNSTABLE OR DAMAGED SUBGRADE, AGGREGATE SUB-BASE, OR BINDER COURSE SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE VILLAGE ENGINEER AT NO COST TO THE VILLAGE.
 - THE VILLAGE ENGINEER IS RESPONSIBLE FOR INDICATING WHETHER THE PROOF ROLL PASSES OR FAILS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING HOW TO FIX ANY UNSATISFACTORY AREAS.
- THE VILLAGE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF ANY PAVING.

7. FINAL PLACEMENT OF HOT MIX ASPHALT SURFACE COURSE SHALL BE DELAYED FOR A MINIMUM OF ONE FULL WINTER UNLESS OTHERWISE APPROVED BY THE VILLAGE AND VILLAGE ENGINEER. BEFORE THE PLACEMENT OF THE SURFACE COURSE, ALL UNDERGROUND UTILITY PUNCH LIST ITEMS FOR FINAL INSPECTION SHALL BE COMPLETED AND APPROVED. ALSO, THE BINDER COURSE PATCHES MUST BE COMPLETED AND THE CURB AND GUTTER REPAIRED AS REQUIRED BY THE VILLAGE ENGINEER.

8. THE HOT MIX ASPHALT BINDER COURSE AND SURFACE COURSE MIXTURES SHALL BE LAID ON A SURFACE WHICH IS DRY AND ONLY WHEN WEATHER CONDITIONS MEET ALL STANDARDS STATED IN THE DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE HOT MIX ASPHALT BINDER COURSE SHALL BE PLACED ONLY WHEN THE TEMPERATURE IN THE SHADE IS AT LEAST FORTY DEGREES FAHRENHEIT (40°) WHEN THE TEMPERATURE IN THE SHADE FOR THE PREVIOUS TWENTY-FOUR (24) HOURS IS AT LEAST THIRTY-TWO DEGREES FAHRENHEIT (32°) AND WHEN THE FORECAST IS FOR RISING TEMPERATURES. THE SURFACE COURSE SHALL BE PLACED ONLY WHEN THE TEMPERATURE IN THE SHADE IS AT LEAST FORTY-FIVE DEGREES FAHRENHEIT (45°) WHEN THE TEMPERATURE IN THE SHADE FOR THE PREVIOUS TWENTY-FOUR (24) HOURS IS AT LEAST FORTY DEGREES FAHRENHEIT (40°), AND WHEN THE FORECAST IS FOR RISING TEMPERATURES.

9. THE AGGREGATE BASE COURSE SHALL BE PRIMED WITH BITUMINOUS MATERIALS (SS-1) AT A RESIDUAL ASPHALT RATE OF TWENTY-FIVE HUNDREDTHS (0.25) POUNDS PER SQUARE FOOT.

10. IMMEDIATELY PRIOR TO PLACING HOT MIX ASPHALT SURFACE COURSE, THE PAVEMENT SHALL BE THOROUGHLY CLEANED, FLUSHED AND PRIMED WITH BITUMINOUS MATERIALS (SS-1) AT A RESIDUAL ASPHALT RATE NOT TO EXCEED FIVE HUNDREDTHS (0.05) POUNDS PER SQUARE FOOT. WHEN BITUMINOUS MATERIALS (SS-1) ARE APPLIED UNDER TRAFFIC CONDITIONS, SANDING AT THE APPROXIMATE RATE OF TWO TO FOUR (2 TO 4) POUNDS PER SQUARE YARD WILL BE REQUIRED.

11. ALL HOT MIX ASPHALT SHALL BE DELIVERED AND HANDLED SO THAT THE HOT MIX ASPHALT IMMEDIATELY BEHIND THE PAVER SCREEN IS AT OR ABOVE TWO HUNDRED SEVENTY DEGREES FAHRENHEIT (270°). ALL ASPHALT DELIVERED TO THE PROJECT SHALL BE COVERED WHEN THE TEMPERATURE IS AT OR BELOW SEVENTY DEGREES FAHRENHEIT (70°).

12. THE MIX DESIGN SHALL BE SUBMITTED THE VILLAGE ENGINEER 48 HOURS IN ADVANCE OF PAVING.

13. ALL TESTING SHALL BE PER IDOT SPECIFICATIONS. A CERTIFIED NUCLEAR DENSITY TECHNICIAN MUST BE ON SITE TO SET THE ASPHALT PAVEMENT ROLLING PATTERN AND CONFIRM COMPACTION DENSITIES. THE TECHNICIAN SHALL REVISE THE ROLLING PATTERN AS DEEMED NECESSARY. THE TECHNICIAN SHALL STOP THE PAVING OPERATION IF THE REQUIRED DENSITIES ARE NOT BEING MET. DENSITY TEST RESULTS SHALL BE SUBMITTED TO THE VILLAGE ENGINEER WITHIN ONE WEEK OF COMPLETION OF THE PAVING OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY CONTROL TESTING. THE VILLAGE ENGINEER RESERVES THE RIGHT TO REQUEST QUALITY ASSURANCE TESTING. THE VILLAGE ENGINEER RESERVES THE RIGHT TO STOP PAVING OPERATIONS IF THE CONTRACTOR DOES NOT HAVE A QUALIFIED TESTER ON SITE AT THE START OF THE PAVING OPERATIONS.

VILLAGE OF SUGAR GROVE
STANDARD NOTES FOR STREET PAVING
AND CONSTRUCTION

1. ALL STREET PAVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN CRITERIA FOR THE VARIOUS CLASSES AS ESTABLISHED IN THE "BUREAU OF DESIGN AND ENVIRONMENT MANUAL" AND "HIGHWAY STANDARDS" OF THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST EDITION. CONSTRUCTION MATERIALS AND METHODS SHALL MEET THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. THE THICKNESS OF THE PAVEMENTS FOR MAJOR COLLECTORS AND ARTERIALS SHALL BE DETERMINED IN ACCORDANCE WITH THE CURRENT ILLINOIS DEPARTMENT OF TRANSPORTATION BUREAU OF LOCAL ROADS AND STREET MANUAL, CHAPTER FORTY-FOUR - PAVEMENT DESIGN, OR AS REQUIRED BY THE JURISDICTIONAL AUTHORITY.

2. PRIOR TO THE CONSTRUCTION OF ANY ROADWAY PAVEMENT, ALL OF THE MAJOR UNDERGROUND WORK SHALL BE COMPLETELY INSTALLED IN PLACE.

3. THE VILLAGE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO THE POURING OF THE CURB AND GUTTER IN ORDER TO REVIEW THE AGGREGATE BASE AND STRING LINE/FORMWORK OF THE CURB AND GUTTER. THE CURB AND GUTTER SHALL BE MACHINE PLACED UNLESS OTHERWISE APPROVED BY THE VILLAGE ENGINEER AND SHALL BE COMPLETED IN A MONOLITHIC INSTALLATION UNLESS PREVIOUSLY APPROVED BY THE VILLAGE ENGINEER.

4. ALL EXPOSED CONCRETE SURFACES SHALL BE CURED AND PROTECTED WHEN REQUIRED DUE TO WEATHER CONDITIONS PER THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, INCLUDING ANY REVISIONS. NO HONEYCOMBING OF THE CONCRETE WILL BE ACCEPTED.

5. PROOF ROLLS ARE REQUIRED ON THE SUB-GRADE, AGGREGATE BASE, HOT MIX ASPHALT BASE, AND BINDER COURSE AND SHALL BE WITNESSED BY THE VILLAGE ENGINEER. THE VILLAGE ENGINEER SHALL BE PROVIDED A MINIMUM OF 48 HOURS ADVANCED NOTICE PRIOR TO THE PROOF ROLL. EACH PROOF ROLL SHALL BE AT THE COST OF THE CONTRACTOR AND SHALL BE TO THE SATISFACTION OF THE VILLAGE ENGINEER AS FOLLOWS:

- A LOADED TRUCK PROVIDED BY THE CONTRACTOR SHALL BE DRIVEN OVER THE AREA TO BE TESTED AT A SPEED PATTERN AND NUMBER OF CYCLES TO BE DETERMINED BY THE VILLAGE ENGINEER. THE TEST TRUCK SHALL BE THE COMMON TRACTOR TRAILER TYPE WITH NO MORE THAN FIVE (5) AXLES WITH A TOTAL OF EIGHTEEN (18) WHEELS LOADED TO A NET WEIGHT OF NO LESS THAN TWENTY-TWO (22) TONS. THE LOAD TICKET SHALL BE PROVIDED TO THE VILLAGE ENGINEER FOR RECORD.
- ANY UNSTABLE OR DAMAGED SUBGRADE, AGGREGATE SUB-BASE, OR BINDER COURSE SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE VILLAGE ENGINEER AT NO COST TO THE VILLAGE.
- THE VILLAGE ENGINEER IS RESPONSIBLE FOR INDICATING WHETHER THE PROOF ROLL PASSES OR FAILS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING HOW TO FIX ANY UNSATISFACTORY AREAS.

6. THE VILLAGE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO THE START OF ANY PAVING.

7. FINAL PLACEMENT OF HOT MIX ASPHALT SURFACE COURSE SHALL BE DELAYED FOR A MINIMUM OF ONE FULL WINTER UNLESS OTHERWISE APPROVED BY THE VILLAGE AND VILLAGE ENGINEER. BEFORE THE PLACEMENT OF THE SURFACE COURSE, ALL UNDERGROUND UTILITY PUNCH LIST ITEMS FOR FINAL INSPECTION SHALL BE COMPLETED AND APPROVED. ALSO, THE BINDER COURSE PATCHES MUST BE COMPLETED AND THE CURB AND GUTTER REPAIRED AS REQUIRED BY THE VILLAGE ENGINEER.

8. ON ALL STREETS WHERE NEW PAVEMENTS MEET EXISTING HOT MIX ASPHALT, A BUTT JOINT SHALL BE PROVIDED IN ACCORDANCE WITH DOT DETAIL ROAD LATEST REVISION (BUTT JOINT AND SMA TAPER DETAILS). THE SUBGRADE SHALL BE GRADED PARALLEL TO THE FINAL SURFACE GRADE AND AS SUCH SHALL DRAIN TO THE CURB LANE AND TO THE INLETS AND CATCH BASINS. POSITIVE DRAINAGE MUST BE ACCOMPLISHED ON THE COMPACTED SUB-GRADE OR THE PLACEMENT OF BASE MATERIAL WILL NOT BE ALLOWED. CERTIFICATION BY THE VILLAGE ENGINEER VERIFYING PROPER SUBGRADE DRAINAGE WILL BE REQUIRED PRIOR TO ANY ADDITIONAL ROADWORK.

9. THE HOT MIX ASPHALT BASE COURSE, LEVELING BINDER, BINDER COURSE, AND SURFACE COURSE MIXTURES SHALL BE LAID ON A SURFACE, WHICH IS DRY AND ONLY WHEN WEATHER CONDITIONS MEET ALL STANDARDS STATED IN THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE HOT MIX ASPHALT BASE COURSE, LEVELING BINDER AND BINDER COURSES SHALL BE PLACED ONLY WHEN THE TEMPERATURE IN THE SHADE IS AT LEAST FORTY DEGREES FAHRENHEIT (40°) WHEN THE TEMPERATURE IN THE SHADE FOR THE PREVIOUS TWENTY-FOUR (24) HOURS IS AT LEAST THIRTY-TWO DEGREES FAHRENHEIT (32°) AND WHEN THE FORECAST IS FOR RISING TEMPERATURES. THE SURFACE COURSE SHALL BE PLACED ONLY WHEN THE TEMPERATURE IN THE SHADE IS AT LEAST FORTY-FIVE DEGREES FAHRENHEIT (45°) WHEN THE TEMPERATURE IN THE SHADE FOR THE PREVIOUS TWENTY-FOUR (24) HOURS IS AT LEAST FORTY DEGREES FAHRENHEIT (40°), AND WHEN THE FORECAST IS FOR RISING TEMPERATURES.

10. AFTER THE BINDER COURSE HAS BEEN PROOF ROLLED AND REPAIRED WHERE REQUIRED AND PRIOR TO PLACING THE HOT MIX ASPHALT SURFACE COURSE, THE BINDER COURSE SHALL BE SURFACE TESTED BY THE CONTRACTOR'S PROJECT ENGINEER, AT NO COST TO THE VILLAGE, IN ACCORDANCE WITH ARTICLE 406.11 OF THE "STATE OF ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT ISSUE. ANY VARIATIONS IN THE BINDER COURSE, INCLUDING PATCHES AND HEADER JOINTS, EXCEEDING ONE-FOURTH INCH (1/4") SHALL BE CORRECTED BY THE REMOVAL AND REPLACEMENT OF ANY UNSATISFACTORY AREAS OR THE CONSTRUCTION OF CORRECTIVE LEVELING BINDER AT THE DIRECTION OF THE VILLAGE ENGINEER. THE VILLAGE ENGINEER SHALL BE NOTIFIED NO LESS THAN FORTY-EIGHT (48) HOURS BEFORE THE SURFACE TESTING AND SHALL RECEIVE WRITTEN TEST RESULTS AND SPECIFIC CONSTRUCTION ENGINEERING RECOMMENDATIONS BEFORE THE SURFACE COURSE CAN BE CONSTRUCTED. PRIOR TO FINAL ACCEPTANCE, THE SURFACE COURSE SHALL BE SURFACE TESTED AS OUTLINED ABOVE AND CORRECTED AS DIRECTED BY THE VILLAGE ENGINEER.

11. THE AGGREGATE BASE COURSE SHALL BE PRIMED WITH BITUMINOUS MATERIALS (SS-1) AT A RESIDUAL ASPHALT RATE OF TWENTY-FIVE HUNDREDTHS (0.25) POUNDS PER SQUARE FOOT.

12. AFTER ANY BINDER COURSE SURFACE VARIATIONS HAVE BEEN CORRECTED TO THE SATISFACTION OF THE VILLAGE ENGINEER AND IMMEDIATELY PRIOR TO PLACING HOT MIX ASPHALT SURFACE COURSE, THE PAVEMENT SHALL BE THOROUGHLY CLEANED, FLUSHED AND PRIMED WITH BITUMINOUS MATERIALS (SS-1) AT A RESIDUAL ASPHALT RATE NOT TO EXCEED FIVE HUNDREDTHS (0.05) POUNDS PER SQUARE FOOT.

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POUNDS PER SQUARE FOOT, WHEN BITUMINOUS MATERIALS (SS-1) ARE APPLIED UNDER TRAFFIC CONDITIONS, SANDING AT THE APPROXIMATE RATE OF TWO TO FOUR (2 TO 4) POUNDS PER SQUARE YARD WILL BE REQUIRED.

- ALL HOT MIX ASPHALT SHALL BE DELIVERED AND HANDLED SO THAT THE HOT MIX ASPHALT IMMEDIATELY BEHIND THE PAVER SCREEN IS AT OR ABOVE TWO HUNDRED SEVENTY DEGREES FAHRENHEIT (270°). ALL ASPHALT DELIVERED TO THE PROJECT SHALL BE COVERED WHEN THE TEMPERATURE IS AT OR BELOW SEVENTY DEGREES FAHRENHEIT (70°).
- THE MIX DESIGN SHALL BE SUBMITTED THE VILLAGE ENGINEER 48 HOURS IN ADVANCE OF PAVING.

15. ALL TESTING FOR BOTH CONCRETE PLACEMENT AND HOT MIX ASPHALT PAVING SHALL BE PER IDOT SPECIFICATIONS. THE ASPHALT LAYING PATTERN MUST BE APPROVED BY THE VILLAGE ENGINEER OR THEIR REPRESENTATIVE. IN ORDER TO MINIMIZE TRANSVERSE JOINTS, A CERTIFIED NUCLEAR DENSITY TECHNICIAN MUST BE ON SITE TO SET THE ASPHALT PAVEMENT ROLLING PATTERN AND CONFIRM COMPACTION DENSITIES. THE TECHNICIAN SHALL REVISE THE ROLLING PATTERN AS DEEMED NECESSARY. THE TECHNICIAN SHALL STOP THE PAVING OPERATION IF THE REQUIRED DENSITIES ARE NOT BEING MET. DENSITY TEST RESULTS WILL BE SUBMITTED TO THE VILLAGE ENGINEER WITHIN ONE WEEK OF COMPLETION OF THE PAVING OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY CONTROL TESTING. THE VILLAGE SHALL BE RESPONSIBLE FOR QUALITY ASSURANCE TESTING. THEREFORE, AT THE TIME OF ASPHALT PAVING, A REPRESENTATIVE FROM THE CONTRACTOR'S TESTING AGENCY AND A REPRESENTATIVE FROM THE VILLAGE'S TESTING AGENCY SHALL BE PRESENT AT THE ASPHERY PLANT PRIOR TO PAVING AND ON SITE AT THE START OF PAVING. THE VILLAGE ENGINEER RESERVES THE RIGHT TO STOP PAVING AND/OR CONCRETE OPERATIONS IF THE CONTRACTOR DOES NOT HAVE A QUALIFIED TESTER ON SITE AT THE START OF THE PAVING AND/OR CONCRETE OPERATIONS.

16. ALL PAVING SHALL BE DONE WITH PAVING MACHINES UTILIZING ELECTRONIC GRADE CONTROL AND A STRING LINE. SHOES ON WHEELS OF A MINIMUM LENGTH OF FIFTEEN FEET (15').

17. ALL ROLLERS SHALL BE PER IDOT SPECIFICATIONS.

18. ALL HOT MIX ASPHALT PLANTS SHALL BE APPROVED BY THE STATE. IN ADDITION, ALL PAVING CONTRACTORS PERFORMING WORK WITHIN THE RIGHT OF WAY SHALL FURNISH AN IDOT CERTIFICATE OF ELIGIBILITY TO THE VILLAGE PRIOR TO THE START OF PAVING.

19. LOAD TICKETS SHALL BE FURNISHED TO THE VILLAGE ENGINEER AT THE TIME OF PAVING.

20. THE NOSE OF ALL ISLANDS IN THE ROADWAY SHALL BE TAPERED PER IDOT STANDARDS AS TO NOT HINDER SNOW PLOW OPERATIONS.

21. THE VILLAGE ENGINEER MAY APPROVE LIME STABILIZATION, WHEN SOLS ARE COMPATIBLE AS DETERMINED BY A GEOTECHNICAL ENGINEER. THE LIME SHALL BE MIXED TO A MINIMUM DEPTH OF 16 INCHES AND MEET THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S GUIDELINES FOR LIME STABILIZED SOIL MIXTURE AS OUTLINED IN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. DRAINAGE FABRIC WILL NOT BE REQUIRED IF LIME STABILIZATION IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS, IS UTILIZED FOR SOIL SUB-BASE MODIFICATION (ADD SOIL MODIFICATION (SECTION 302) WITH ALLOWED MODIFIERS (FLY ASH).

VILLAGE OF SUGAR GROVE
STANDARD NOTES FOR SOIL EROSION
AND SEDIMENTATION CONTROL

1. GENERAL

a) ON SITE SEDIMENT CONTROL MEASURES, AS SPECIFIED BELOW, SHALL BE CONSTRUCTED AND FUNCTIONAL PRIOR TO INITIATING CLEARING, GRADING, STRIPPING, EXCAVATION OR FILL ACTIVITIES ON THE SITE.

b) THE CONTRACTOR SHALL PROVIDE SOIL EROSION AND SEDIMENTATION CONTROL IN ACCORDANCE WITH VILLAGE ORDINANCES, VILLAGE STANDARD SPECIFICATIONS FOR IMPROVEMENTS, "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" (THE YELLOW BOOK), THE ILLINOIS URBAN MANUAL, (LATEST EDITION), AND IN ACCORDANCE WITH THE PLANS.

c) IF THE PROJECT DISTURBS MORE THAN 1 ACRE OF LAND, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A LOG OF THE CONDITIONS OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES PER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) (REGIONAL OR PROJECT SPECIFIC) PERMIT REQUIREMENTS. THE CONTRACTOR IS OBLIGATED TO REVIEW AND RECORD THE STATUS OF THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AT MINIMUM EVERY WEEK AND AFTER EVERY 1/2" RAINFALL EVENT. THIS LOG SHALL BE KEPT ON SITE, AND THE VILLAGE AND/OR VILLAGE ENGINEER RESERVES THE RIGHT TO REVIEW THIS LOG UPON REQUEST.

d) THE VILLAGE ENGINEER OR THEIR REPRESENTATIVE WILL HAVE THE AUTHORITY TO STOP WORK IF PROPER SOIL STABILIZATION AND SEDIMENTATION CONTROLS ARE NOT BEING OBSERVED.

e) SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED WEEKLY AND AFTER EACH RAIN. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CLEANED AND RESTORED AS REQUIRED.

f) ANY DEFICIENCIES IN SOIL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE REPORTED TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY WITH THE CONSTRUCTION SITE STORM WATER DISCHARGE INCIDENCE OF NON-COMPLIANCE FORM.

2. SOIL STABILIZATION

a) TOPSOIL STRIPPING STRIPPED TOPSOIL SHALL BE STOCKPILED ON-SITE (FOR REUSE) AT THE LOCATION(S) DESIGNATED ON THE PLANS.

b) STABILIZATION PRACTICES—STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER CLEARING, GRADING, EXCAVATING, OR OTHER DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN ONE (1) WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NO LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE AS FOLLOWS:

i) WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

ii) ON AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION TECHNIQUES AND MATERIALS SHALL BE DESCRIBED IN THE SWPPP.

c) PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING AND TOPSOIL PLACEMENT, SEEDING OR SOD SHALL BE INSTALLED IN AREAS AS DESIGNATED ON PLANS.

d) DUST CONTROL — UNDER DRY CONDITIONS WHERE SOIL MIGRATION IS AN ISSUE, THE CONTRACTOR WILL BE REQUIRED TO WET THE EXPOSED UNPROTECTED SOIL SURFACE WITH WATERING TRUCKS TO EFFECTIVELY ELIMINATE SOIL MIGRATION. GRADING ACTIVITIES PRODUCING DUST MUST BE SUSPENDED UNTIL THE NUISANCE IS ABATED. IF, AT THE VILLAGE ENGINEER'S DISCRETION, DUST CONTROL IS NOT BEING OBSERVED, AN ORDER TO IMMEDIATELY STOP WORK WILL BE ISSUED UNTIL PROPER DUST CONTROL MEASURES ARE IMPLEMENTED.

e) PAVED AREAS THE AGGREGATE BASE COURSE SHOULD BE INSTALLED AS SOON AS POSSIBLE TO STABILIZE THE EXPOSED SOIL SUBGRADE. IN CERTAIN CONDITIONS, LIME STABILIZATION OF ROADWAY SUB-GRADE MAY BE APPROVED BY THE VILLAGE ENGINEER. VILLAGE ENGINEER APPROVAL MUST BE OBTAINED IN WRITING PRIOR TO LIME STABILIZATION.

f) SLOPE PROTECTION STEEP SLOPES MAY REQUIRE ADDITIONAL STABILIZATION, IN ADDITION TO SEEDING, SUCH AS MULCH, EXCELSIOR BLANKET, SOD, OR EQUAL.

3. SEDIMENT CONTROL

a) FOR DISTURBED AREAS DRAINING MORE THAN ONE ACRE, A SEDIMENT TRAP OR EQUIVALENT CONTROL MEASURE SHALL BE CONSTRUCTED AT THE DOWNSLOPE POINT OF THE DISTURBED AREA.

b) SEDIMENT BASIN AND SEDIMENT TRAP DESIGNS SHALL PROVIDE FOR BOTH DETENTION STORAGE AND SEDIMENT STORAGE. THE DETENTION STORAGE SHALL BE COMPOSED OF EQUAL VOLUMES OF WET DETENTION STORAGE AND DRY DETENTION STORAGE, AND EACH SHALL BE SIZED FOR THE 2-YEAR, TWENTY-FOUR (24) HOUR RUNOFF FROM THE SITE UNDER MAXIMUM RUNOFF CONDITIONS DURING CONSTRUCTION. THE RELEASE RATE OF THE BASIN SHALL BE THAT RATE REQUIRED TO ACHIEVE MINIMUM DETENTION TIMES OF AT LEAST TEN (10) HOURS. THE ELEVATION OF THE OUTLET STRUCTURE SHALL BE PLACED SUCH THAT IT ONLY DRAINS THE DRY DETENTION STORAGE.

c) ADJACENT PROPERTY PROTECTION — ADJACENT PROPERTIES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION BY PRESERVING A VEGETATED BUFFER STRIP (MINIMUM WIDTH OF 25 FEET) OR SEDIMENT BARRIERS (E.G. SILT FENCES) AT THE LOWER PERIMETER OF THE LOT. WHERE POSSIBLE, BOTH A VEGETATED BUFFER STRIP AND SEDIMENT BARRIER SHALL BE INSTALLED.

d) STOCKPILE PROTECTION — SEDIMENTATION BARRIERS SHALL BE PROVIDED IN ALL AREAS AROUND THE PERIMETER OF STOCKPILE AREAS.

e) STORM SEWER INLET PROTECTION DURING CONSTRUCTION SEDIMENT SHALL BE FILTERED THROUGH A FILTER FABRIC BARRIER AROUND ALL FRONT, SIDE, OR BACKYARD INLETS BEFORE IT ENTERS NEWLY CONSTRUCTED STORM SEWER (STRAW BALES ARE NOT ALLOWED). THE VILLAGE RECOMMENDS ALL STORM SEWER INLET STRUCTURES (INCLUDING ROADWAY AND FRONT, SIDE, OR BACKYARD) UTILIZE FLEXSTORM INLET FILTERS OR APPROVED EQUIVAL BY THE VILLAGE ENGINEER. SEDIMENT CONTROL INLET FILTERS TO PROPERLY MANAGE SEDIMENT CONTROL AND TO MINIMIZE STORM SEWER TELLING AND CLEANING WHICH WOULD OTHERWISE BE REQUIRED PRIOR TO VILLAGE ACCEPTANCE OF THE STORM SEWER SYSTEM. ALL INLET FILTERS SHALL BE PROPERLY MAINTAINED UNTIL SUCH TIME AS ALL AREAS TRIBUTARY TO A PARTICULAR INLET HAVE BEEN ADEQUATELY VEGETATED.

f) DITCH PROTECTION — ROCK DAMS SHALL BE INSTALLED AS DITCH CHECKS AND STAKED IN PLACE AT 250 LINEAL FEET MAXIMUM SPACING IN ALL SLOPES. IF DITCH SLOPES ARE STEEPER, CLOSER SPACING OF DITCH CHECKS MAY BE REQUIRED. STRAW BALES ARE NOT ALLOWED AS DITCH CHECKS.

g) CONSTRUCTION ACCESS — CONSTRUCTION TRAFFIC SHALL ENTER AND LEAVE THE SITE AT A DESIGNATED ACCESS. PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO STATE/COUNTY/TOWNSHIP HIGHWAYS OR LOCAL STREETS. WASHING FACILITIES MAY BE REQUIRED, IF NECESSARY. HIGHWAYS OR LOCAL STREETS SHALL BE CLEANED DAILY AT THE END OF EACH WORK DAY OR AS REQUIRED TO KEEP MUD AND/OR OTHER DEBRIS OFF OF ANY HIGHWAY OR STREET.

h) ROADWAY CLEANING & STREET SWEEPING — ROADWAYS SHALL BE KEPT CLEAN DURING THE COURSE OF CONSTRUCTION BY UTILIZING MANUAL CLEANING, STREET SWEEPERS, OR OTHER MACHINERY. UPON THE INSTALLATION OF THE FINAL SURFACE COURSE OF THE ROADWAY, ABSOLUTELY NO HEAVY MACHINERY (E.G. SKID STEER, ENDLOADER) SHALL BE UTILIZED FOR ROADWAY CLEANING.

i) REMOVAL OF CONTROL MEASURES AFTER FINAL SITE STABILIZATION IS DEEMED ACHIEVED BY THE VILLAGE ENGINEER, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS.

4. FIELD REVIEW

a) THE VILLAGE ENGINEER SHALL MAKE FIELD REVIEWS AS DESCRIBED BELOW, AND SHALL EITHER STATE THAT THE PORTION OF THE WORK IS COMPLETED SATISFACTORILY OR SHALL NOTIFY THE DEVELOPER WHEN THE WORK FAILS TO COMPLY WITH THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLAN AS APPROVED. IN ORDER TO OBTAIN FIELD REVIEWS AND TO ENSURE COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, THE GRADING OR BUILDING

PERMIT, AND THIS TITLE, THE DEVELOPER SHALL NOTIFY THE VILLAGE ENGINEER WITHIN TWO (2) WORKING DAYS OF THE COMPLETION OF THE CONSTRUCTION STAGES SPECIFIED BELOW:

- UPON COMPLETION OF INSTALLATION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING;
- AFTER STRIPPING AND CLEARING;
- AFTER ROUGH GRADING;
- AFTER FINAL GRADING;
- AFTER SEEDING AND LANDSCAPING DEADLINES; AND
- AFTER FINAL STABILIZATION AND LANDSCAPING, PRIOR TO REMOVAL OF SEDIMENT CONTROLS.

b) IF STRIPPING, CLEARING, GRADING AND/OR LANDSCAPING ARE TO BE DONE IN PHASES OR AREAS, THE DEVELOPER SHALL GIVE NOTICE AND REQUEST A FIELD REVIEW AT THE COMPLETION OF EACH OF THE ABOVE WORK STAGES IN EACH PHASE OR AREA.

CHELSEA SENIOR COMMONS

ROUTE 47
SUGAR GROVE, IL

SUGAR GROVE GENERAL NOTES		DRAWN BY: SKB	CHECKED BY: CML
		SCALE: NTS	DATE: 09/11/2017
		JOB NUMBER: 17-229	SHEET: C 2.1
#	DATE	DESCRIPTION	
1	10/12/17	PER VILLAGE COMMENTS	
2			
3			
4			
5			
6			
7			
8			

Consulting Civil Engineering
Land Planning & Surveying
1050 State Route 126
Plainfield, Illinois 60544
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C.M. Lavoie
& Associates, INC.

REVISED PLANS PER VILLAGE COMMENTS DATED 10-12-17.

1. ADDED VILLAGE NOTES THIS SHEET.

- All sanitary sewer construction shall be performed in accordance with the "Fox Metro Water Reclamation District Sewer Use Ordinance No. 859", the "Standard Specifications for Water and Sewer Main Construction in Illinois", and "77 Illinois Administrative Code, part 890, Illinois Plumbing Code", latest edition.
- Final approved set of plans and specifications must be kept on the job site. Failure to do this may result in a fine and/or be considered cause to stop the job.
- Contractors for all sanitary sewer main extension projects shall notify the District's Engineering Department Twenty-four (24) hours prior to the start of work. Notification shall be done via telephone at (630) 301-6882, fax at (630) 897-6094 or email (medrana@foxmetro.org or mfrank@foxmetro.org).
- For service connection inspections, call twenty-four (24) hours in advance to schedule an inspection at (630) 301-6881.
- To prevent any possible infiltration, inflow or debris from entering the downstream sanitary system, a factory-made plug shall be placed in the manhole by the contractor, as indicated on the final approved plans. The placement of the plug(s) shall not interrupt the service of any user. This plug is to be removed only upon approval by the District or the village and only after any construction drainage and/or debris has been properly removed. Under no circumstances is overflow surface drainage allowed to drain into the sanitary system.
- All sanitary sewers shall be tested in accordance with Section 31-1.11 of the "Standard Specifications for Water and Sewer Main Construction in Illinois". In addition, all manholes shall be vacuum tested (manhole testing will be in accordance with ASTM-1244-93 or in accordance with District requirements). In case of testing specification conflict, where deeper manholes are constructed, the more stringent requirement will apply.
- When connecting to an existing sanitary main when a tee or wye is not provided, an "Adapter Tee" fitting must be installed. The minimum distance between fittings is four (4) feet center to center. Installation of a wye/tee on an existing main is prohibited. The angle of any new connection shall not exceed 1/1 or 45 degrees.

- Only "Infi-Shield", "Adaptor-Seal", and "Canusa (Wrapid Seal)", or approved equal chimneys shall be installed on all manholes and grease removal systems.
- Only PVC transition fittings shall be used in all new construction when joining PVC pipes which are damaged, disturbed during construction or have different outside diameters. Refer to Fox Metro "Manhole/Sewer Pipe Specifications" for information relating to repairs of manholes damaged during construction.
- All existing sanitary interceptor (mains 15" in diameter or greater) manhole frames located within any proposed development will be required to be adjusted to grade. Under no circumstances may the vertical height of the adjusting rings (two total) rings exceed eight (8) inches. Extreme care should be taken when working near all sanitary manholes.

- Cast iron cleanout covers are required in areas receiving traffic loads.
- Ductile iron and cast iron pipe is not allowed for the use of gravity sewers in the District.
- Landscaping within any District easement is prohibited without review and subsequent plan approval. The easement shall be graded so that the ground surface does not exceed a six (6) percent gradient in all directions.
- All building drains/sewers shall be overhead or "hung" through the basement wall of any new building. All sanitary risers shall be required to be constructed to a depth of no greater than six (6) to seven (7) feet at the right of way. If a conflict arises between a sanitary sewer and a water line, IEPA water & sewer separation requirements take precedent.
- Whether any grease trap removal system is newly constructed or "retrofitted" to an existing building, a minimum each of 1% slope and 3.5' of cover for pipes are required.
- Minimum design slopes shall be 1.00% for six (6) inch building sewers, .40% for eight (8) inch sewers, and .28% for ten (10) inch sewers with all other design slopes conforming to the requirements of the "Standard Specifications for Water and Sewer Main Construction in Illinois".
- All manhole barrel sections (including those sections of existing manholes which have been exposed during construction) shall be required to be externally sealed with a "6" or "9" wide (min.) sealing band of rubber and mastic. The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, "Type II or "Type III.
- All sags, leaks, pipe defects, or other related issues with any newly televised sewer shall be repaired by the contractor at the discretion of the District. For approval of repairs, these areas will need to be confirmed in writing as completed by the appropriate municipality or re-televised by the District. At the District's discretion, connection permits may be withheld if confirmation of completed repairs cannot be obtained.

- Any contractor, who consistently fails to perform in accordance with the District's standards and specifications as provided on the plans, may be prohibited from performing work in the District. The District reserves the right to revoke or disallow any contractor's bond.
- The District shall televise all sewers eight (8) inches in diameter or greater. In order to access each manhole, the developer is responsible for providing a smooth, level area of sufficient width along the sanitary sewer system. If the sewers are found not to be clean during televising, the developer may incur additional charges if proper access to all manholes is not provided and/or for "heavy cleaning" of sewers by the District's contractor.
- Full-sized cleanouts are required on all building sewers and shall be installed at a minimum depth of four (4) feet firm to invert.

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- PIPE & FITTINGS
 Pipe and fittings used in sanitary sewer construction shall be polyvinyl chloride (PVC) pipe, PVC pipe and fittings dated over one-year-old shall not be permitted for use. No solvent-welded joints shall be allowed outside of the foundation wall of any building.
 The types of PVC pipe and fittings that shall be used in the District include:
 - Poly Vinyl Chloride (PVC) Sewer Pipe and Fittings (ASTM – SDR series), conforming to ASTM Numbers D-1784 (cell classification), D-3034, D-3212 (joint spec), and F-477 (gaskets).
 - Poly Vinyl Chloride (PVC) Pressure Rated Pipe and Fittings (ASTM – SDR series), conforming to ASTM Numbers D-1784 (cell classification), D-2241, D-3139 (joint spec), and F-477 (gaskets).
 - Poly Vinyl Chloride (PVC) Pressure Rated Pipe and Fittings (AWWA DR-series) conforming to AWWA C-900, AWWA C-905, and ASTM Numbers D-1784 (cell classification), D-3139 (joint spec), F-477 & F-913 (gaskets).

All PVC plastic pipe and fittings shall have a cell classification of 12454 as defined in ASTM-D-1784 and shall have minimum pipe stiffness as shown below in Table 1. The required Standard Dimension Ratio (SDR) or Dimension Ratio (DR) for PVC pipe and fittings shall be selected based upon the depth of cover, as also shown in the table below:

Depth of Cover	Pipe Diameter	Minimum Thickness	National Standard	Minimum Pipe Stiffness
3.5' <15'	6" -12"	SDR 26	ASTM D-3034	115
3.5' <20'	6" -12"	SDR 21	ASTM D-2241	224
3.5' <30'	6" -12"	DR-18	AWWA C-900	364
3.5' <30'	14"	DR-18	AWWA C-905	364

Fittings in sizes through twelve (12) inches shall have elastic joints and minimum socket depths as specified in each respective section. Fittings above twelve (12) inches shall be molded or fabricated with elastic joints in accordance with ASTM standards D-1784 and D-3139 incorporating the manufacturer's standard pipe bells and gaskets. Gaskets shall conform to ASTM F-477 and ASTM F-913.

The District reserves the right to approve/reject all pipe and fittings on a case-by-case basis.

2. BEDDING, HAUNCHING, AND INITIAL BACKFILL
 Bedding material shall be CA-7 Class 1A, as outlined in ASTM D-2321 and shall be certified by the manufacturer and approved by the District prior to installation, to have the following characteristics:
 - Description: Shall be crushed stone or crushed gravel, as produced from crushing by mechanical means.
 - Gradation: Shall meet the IDOT gradation of CA-7, Class 1A.
 - Plasticity Index: Shall meet a plasticity index of 0 to 4 percent as determined by the method given in AASHTO T 90.
 - Specific Gravity: Shall have a specific gravity (dry) of greater than 2.45.

LABORATORY TEST
 The District reserves the right to require a contractor to submit certified copies of all reports of tests conducted by an independent laboratory before installation of PVC plastic pipe. Tests shall be conducted in accordance with Standard Method of Test for "External Loading Properties of Plastic Pipe by Parallel-Plate Loading" per ASTM D2442.

1. INSTALLATION
 If the invert of any overhead sewer exceeds two (2) feet above the footing, plate compaction of the CA-7 Class 1A aggregate shall be required in twelve (12) inch lifts.
 Trench widths should be stable or supported, provide a width sufficient, but no greater than necessary to ensure working room to properly and safely place haunching and other embedment materials. The minimum trench width shall be "3" plus the outside diameter of the pipe and the maximum trench width shall be 48" plus the outside diameter of the pipe.
 Pipe size shall be a minimum of eight (8) inches for public sewers and six (6) inches for building sewers.

Pipes shall be laid in a manner which provides uniform support over the entire length. No blocking of any kind shall be used to adjust the pipe to grade except when embedment concrete is used. Bedding shall be a minimum of six (6) inches in depth. The bedding material shall be placed and worked in around pipe by hand to provide uniform support, then around and over the crown of the pipe by a minimum of twelve (12) inches. The granular embedment material shall be placed and consolidated along the full width of the trench. The contractor shall be required to install the pipe in such a manner that the diametric deflection of the pipe shall not exceed five (5) percent.
 PVC transition fittings shall be used in all new construction when joining PVC pipes of different outside dimensions.
 Service connections to new mains shall be with a tee/wye fitting with a six (6) inch branch and shall connect to the main at a (max.) forty-five (45) degree angle. Where no tee/wye exists, an Inserta Tee brand fitting shall be required.
 Cast iron clean out covers conforming to ASTM A-48 Class 30 or equivalent shall be required for all sanitary sewer services located in any paved surface. Locations of said covers shall be limited to a spacing of no greater than one hundred (100) feet or that constructed per the approved engineering plan.

The use of ductile iron & cast iron pipe is not allowed for the use of gravity sewers in the District.
 Either 4" X 6" rubber or non-shear couplings shall be used to connect the building drain to the building sewer. If using a rubber fitting, the four-inch pipe shall be inserted six to twelve inches inside of the six inch building sewer.
 Whether any grease removal system (GRS) is newly constructed or retrofitted to an existing building, all District guidelines pertaining to minimum slope and cover depth for sanitary construction shall be strictly adhered to.
 All building drains/sewers shall be overhead or "hung" through the wall of any basement.
 Full-sized cleanouts shall be installed five (5) feet from the foundation wall.

2. TESTING
 Before final acceptance, all public sewers shall be tested in accordance with Section 31-1.11 of the "Standard Specifications for Water and Sewer Main Construction in Illinois" (see Item #2 under "Manhole Installation and Field Testing" below for vacuum testing).
 All pipelines constructed of polyvinyl chloride (PVC) shall be subject to air infiltration, deflection, vacuum and televising tests.
 The deflection test shall be performed no sooner than thirty (30) days of the backfilling operation and shall consist of measuring the pipe for vertical ring deflection. Maximum ring deflection of the pipeline under load shall be limited to five (5) percent of the internal pipe diameter. All pipes

exceeding this deflection shall be considered to have reached the limit of its serviceability and shall be re-laid or replaced by the contractor at their sole expense.
 The cost of all deflection testing shall be borne by the contractor and shall be accomplished by pulling a mandrel, sphere, or pin-type "go/no-go" device with a diameter equal to ninety-five (95) percent of the un-deflected inside diameter of the flexible pipe through the pipeline. Pipe shall be constructed so that the internal diameter does not decrease by more than five (5) percent.

All sanitary sewer (public or private) having a diameter of eight (8) inches or greater shall be televised by the District. Said televising work is scheduled once all sanitary testing (air & vacuum) has been received by the District. Any defects in said sewer shall be required to be excavated and repaired at the contractor's or developer's sole expense. Caution should be taken before constructing roads, curbs, sidewalks or any other infrastructure, whether it is above or below the ground surface. It is the responsibility of the utility contractor and the developer to contact the District prior to installing any of these utilities or infrastructure. Repairs to defective sanitary sewers shall be performed regardless of the status of other construction or extraneous expenses.

MANHOLE INSTALLATION AND FIELD TESTING
 1. INSTALLATION
 All manhole castings, adjusting rings and manhole sections shall be set in butyl rope or approved equal. The inside joints of manhole sections, adjusting rings, and frame shall not be mortared. However, the area between the pipe and flow channel shall be filled with cement mortar to provide a flush smooth surface.
 Each manhole cone and barrel section joint shall also be externally sealed with a "6" or "9" wide (min.) sealing band of rubber and mastic (see "REPAIRS" below). The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, "Type II or "Type III.

Pipe connections to all manholes through openings (cast or core-drilled) shall be provided with a flexible rubber water-tight gasket conforming to ASTM C-923. "Standard Specifications for Resilient Connections Between Reinforced Concrete Manhole Structures and Pipes".
 A maximum of eight (8) inches of adjusting rings (2 total rings) is allowed. The frame, chimney, and top "lip" of the cone section shall be required to be sealed with a chimney seal. Only "Adaptor-Seal", "Infi-Shield", Canusa (Wrapid Seal), or an approved equal will be allowed. Do not use unapproved seals.

When a new manhole is approved to be constructed on an existing public sewer, only Cascade brand (CR style), or approved equal, stainless steel repair clamps shall be installed. Only repair clamps conforming to ANS/NF-61 shall be allowed. This work shall be inspected by the District.

2. TESTING
 Each new manhole shall be vacuum tested after manhole is finished grade. All lift holes shall be plugged with a non-shrinking grout. The manhole frame, adjusting rings and chimney seals shall be in place when testing. No grout shall be placed in the horizontal joints before, after or during testing in order to achieve a passing test result. All pipes entering the manhole shall be plugged, taking care to securely brace the plugs from being down into the manhole. A vacuum of ten (10) inches of mercury shall be drawn and the vacuum pump shut off. With the valves closed, the time shall be measured for the vacuum to drop to nine (9) inches of mercury (Hg) for the following time periods for each size manhole:
 - *Forty-eight (48) inches Diameter - sixty (60) seconds
 - *Sixty (60) inches Diameter - seventy-five (75) seconds
 - *Seventy-two (72) inches Diameter - ninety (90) seconds

*Manhole testing will be in accordance with ASTM-1244-93 or in accordance with District requirements. In case of conflict, the more stringent requirement will apply (e.g., where deeper manholes are constructed).

The contractor shall provide all material and equipment necessary for testing. Should the manhole fail the vacuum test, the structure shall be disassembled to a point that said leak can be repaired with butyl rope. After the repair is complete, the manhole shall be re-tested until a satisfactory result is obtained.

REPAIRS & REHABILITATION OF EXISTING PIPES AND MANHOLES
 1. PIPES
 Pipe connections of dissimilar materials where no hub exists shall be made with a non-shear connector.
 Where a new home is constructed on any lot where the sanitary service is made of rigid materials such as vitrified clay, cast iron, or ductile iron, said service will be required to be removed or lined to the public main. Any existing sanitary sewer main or service, which is required to be lined, shall be required with a cured-in-place pipe (CIPP) meeting the requirements of ASTM F1216, D5813, D790 and D2990. Said CIPP shall be installed using the inversion method only. Hot water or steam shall be used to cure all liners.
 Building sewers shall be permanently abandoned using one of following two methods.

- 1) Removed to within one (1) foot of the public sewer and plugged using a mechanical plug and mortar. This is the required method. If this is not feasible, see item two below.
- 2) The incoming building sewer shall be sealed within the public sewer with a four (4) foot minimum length cured in place pipe (C.I.P.P.) liner with hydrophilic gaskets.

Where a newly constructed public sewer needs to be repaired due to damage having occurred during construction, Cascade brand (CR style), or approved equal, stainless steel repair clamps shall be required. Only repair clamps conforming to ANS/NF-61 shall be allowed. When the damage occurs within thirty (30) feet of a manhole, the contractor shall remove and replace the damaged main from the nearest joint to the manhole.
 2. MANHOLES
 Each manhole, which has been disturbed in any way, including being raised or lowered, should be cleaned and dried before re-sealing. Each cone and barrel section joint shall require a double layer of butyl rope and also be externally sealed with a "6" or "9" wide (min.) sealing band of rubber and mastic. The band shall have an outer layer of rubber or polyethylene with an under layer of rubberized mastic (with a protective film), meeting the requirements of ASTM C-877, "Type II or "Type III.
 A maximum of eight (8) inches of adjusting rings (2 total rings) is allowed in any repair. The frame and chimney of the cone section shall be required to be sealed with a chimney seal. Only "Adaptor-Seal", "Infi-Shield", Canusa (Wrapid Seal), or approved equal will be allowed.

14. Full sized exterior cleanouts are required for all new building sewers.
15. Any building constructed with a basement shall have overhead building drains and sewers.
16. All construction, including bedding stone, fittings, pipe, chimney & manhole seals and testing must meet District specifications.
17. If any public water or sewer mainline is damaged or broken during excavation, you must notify the municipality having first jurisdiction immediately. Any broken or damaged municipal utility will require repair approval and inspection by that municipality. In addition, a repair permit and inspection by the District shall be required for any damaged water or sanitary service.

The Fox Metro Water Reclamation District has first jurisdiction in the tributary metropolitan sewer area as per Sewer Use Ordinance #859 and all discharges to the sanitary system will be controlled and monitored by the Fox Metro Water Reclamation District.
Bonding
 1. To perform sanitary sewer service installation or repairs you must provide a twenty five thousand dollar (\$25,000.00) license & permit bond to "Fox Metro Water Reclamation District" (District), as the obligee. On this bond, it shall be indicated that the contractor performs work such as: "sanitary sewer excavation" or "sanitary sewer construction". The bonded contractor is required to install or repair according to District specifications (also refer to Standard Specifications for Water and Sewer Main Construction in Illinois and "77 Illinois Administrative code, part 890, Illinois Plumbing Code", latest edition).

2. Failure to comply with District Ordinances may result in penalties not to exceed three thousand dollars (\$3,000) for each violation. These fines may double with each occurrence by the same contractor or individual or contractor. The following represent some of the most common violations that are subject to fines as required by the Sewer Use Ordinance of the District:
 - Release of ground water, aggregates or mud into the public sewer system.
 - Mainline sewer construction without 48 hour notice
 - Construction of sanitary or water service or repair without inspection and/or license and permit bond.
 - Unsecured system (no plug per approved plans)
 - Construction using unapproved plans
 - Construction of sewers without required I.E.P.A. permit and District approval letter.

PLEASE PAY PARTICULAR ATTENTION TO THIS ITEM. UNDER NO CIRCUMSTANCES WILL FOX METRO ALLOW ANY AGGREGATES, MUD, CLAY OR GROUND WATER TO ENTER THE SANITARY SEWER SYSTEM. FAILURE TO COMPLY WILL RESULT IN MAXIMUM FINES, AS WELL AS POSSIBLE CLEANING AND TREATMENT COSTS. REPEAT OFFENDERS MAY BECOME SUBJECT TO HAVING THEIR BOND REVOKED AND DENIED FUTURE WORK IN FOX METRO'S SERVICE AREA. CALL THE ENGINEERING DEPARTMENT AT (630) 301-6882 WITH QUESTIONS.

3. All new sanitary construction must be securely plugged per the approved plans. This plug must be maintained to prevent unnecessary flow or discharge into the existing sanitary system. This plug may only be removed after all construction drainage has been properly removed.
4. No ground water, run off, or surface water is allowed to enter any sanitary sewer system before, during or after any sanitary sewer service or mainline construction installation or repair. In addition, draining or pumping ground or surface water into any sanitary sewer system is strictly prohibited.
5. No aggregate, dirt, clay, debris, or foreign material is allowed to enter any sanitary sewer system. Any individual, contractor or company causing said material to enter an existing sanitary sewer system shall clean and remove this debris from the system at their expense, and under the supervision of the District and/or the governing municipality. Furthermore, should it be determined that this material caused a system surcharge or backup resulting in property loss or damage, this same responsible party, individual or company shall make proper restitution, restoration, clean up and disinfection as will be required for proper health and safety.
6. Footing tile, sump pumps, under floor drains, down spouts, yard drains or any other connections for draining ground water, run off, or surface water directly or indirectly into sanitary sewers are expressly prohibited and subject to fines and indirect costs.

7. All sanitary building sewers, including new construction and repairs, shall be inspected by the District.
8. The District performs all water service inspections for the City of Aurora and Villages of Montgomery, Sugar Grove and North Aurora and shall consist of the following:
 - All domestic water connections shall be a minimum of one (1) inch in diameter and shall be Type K copper. All domestic water connections larger than two (2) inches in diameter may require D.I.P., as well as an inspection by a Professional Engineer representing the municipality in which the service is being constructed.
 - Each water service shall be in its own trench with ten (10) feet (minimum) of horizontal separation from the sanitary sewer or main, and be at a minimum depth of five (5) feet. Where this is not possible, refer to the District's sewer and water separation detail and the Illinois Plumbing Code.
 - Water shut-offs shall be placed outside of driveways, curbs, sidewalks, or any surfaced area.
 - Fire lines, usually made of D.I.P., shall not be inspected by the District.

The sanitary sewer contractors for all public sewer extension projects shall notify the District twenty-four (24) hours prior to the start of work. Notification shall be done via telephone at (630) 301-6882. For service connections, call twenty-four (24) hours in advance to schedule an inspection at (630) 301-6811 during the hours of 7:00 a.m. – 3:00 p.m.
 10. Inspections scheduled on the same day will be charged a fifty dollar (\$50) fee. To avoid additional fees, a one hour notification is required if you are running late or wish to cancel an inspection.
 11. A fifty (50) dollar fee will be charged for return inspections (not including multi-family), failed inspections, failure to cancel, or incomplete at appointed time. Holiday and weekend inspections are available at the discretion of the District and are subject to a minimum fee of \$150.00, which is due prior to the inspection. Please call 630-301-6811 during the hours of 7:00 a.m. – 3:00 p.m.
 12. Exterior sanitary sewer repairs require a no charge repair permit. Schedule your inspection after you receive this permit. For after-hours emergency repairs, call 630-327-6811.
 13. When calling for an inspection, a District permit number is required. An inspection cannot be scheduled without this number.

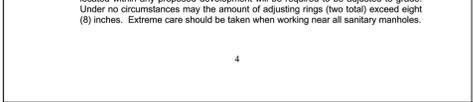
Construction
 14. Full sized exterior cleanouts are required for all new building sewers.
 15. Any building constructed with a basement shall have overhead building drains and sewers.
 16. All construction, including bedding stone, fittings, pipe, chimney & manhole seals and testing must meet District specifications.
 17. If any public water or sewer mainline is damaged or broken during excavation, you must notify the municipality having first jurisdiction immediately. Any broken or damaged municipal utility will require repair approval and inspection by that municipality. In addition, a repair permit and inspection by the District shall be required for any damaged water or sanitary service.

18. All sanitary sewer main construction must have an IEPA permit and plan approval letter on file with the District's engineering department prior to commencing with any construction. Please call our office at 630-301-6882 to verify that these items are on file.
19. A final approved set of plans and specifications must be kept on the job site. Failure to comply with this provision may result in a fine and/or be considered cause to stop the job.
20. Any change from approved plans, specifications, or additions must be requested and become subject to approval by the District and governing municipality.
21. Where a new home is constructed on any lot where the building sewer is made of materials other than PVC, said service will be required to be removed and replaced to the public main or lined using only methods approved by the District.
22. The use of ductile or cast iron pipe is not allowed for the use of gravity sewers in the District. If D.I.P. or C.I.P. is proposed on your plans marked as "FOR CONSTRUCTION", please contact the District's engineering department at (630) 301-6882.
23. No solvent-welded joints shall be allowed outside of the foundation wall.
24. The District must be contacted to check the sewer main before any individual or company rods a building sewer. This only applies in "back up" situations to insure the main sewer is not surcharged.
25. Prior to core-drilling into any interceptor, the contractor shall call the District's Field Maintenance Department to verify the proper point at which to drill. Absolutely no "crown" connections are allowed. All new connections are to be located on the interceptor at a point or angle no higher than forty-five (45) degrees or 1/1 from the horizontal point of the existing sewer.
26. All sanitary sewers shall be tested in accordance with Section 31-1.11 of the "Standard Specifications for Water and Sewer Main Construction in Illinois". In addition, all manholes shall be vacuum tested (Manhole testing will be in accordance with ASTM-1244-93 or in accordance with the District's requirements). In case of testing specification conflict, where deeper manholes are constructed, the more stringent requirement will apply.
27. All existing sanitary interceptor (mains 15" in diameter or greater) manhole frames located within any proposed development will be required to be adjusted to grade. Under no circumstances may the amount of adjusting rings (two total) exceed eight (8) inches. Extreme care should be taken when working near all sanitary manholes.

28. Landscaping within any District easement is prohibited without review and subsequent plan approval by the District. It is vital for all Field Department personnel to be able to access the entire length of any interceptor easement for the purpose of maintaining the integrity of the sanitary sewer system or dealing with emergencies. Unless approved by the District, the easement shall be graded so that the ground surface does not exceed a six (6) percent gradient in any direction.
- Questions relating to any District specification, rule or regulation, or those regarding a specific project, should be directed to either the engineering or field department at 630-301-6882.

- Use Standard Hole Saw for PVC (solidwall, profile and closed profile)and corrugated polyethylene mainlines.
 Use Poly Hole Saw for ballival polyethylene mainlines.
 Use Diamond Core Bits for concrete, clay, ductile iron and fiberglass mainlines.
- Tools required:**
 1. Hand-held drill with hole saws recommended for 4", 6" & 8" INSERTA TEES. Tie down Coring Machine recommended for 10", 12" and 15" INSERTA TEES and all outlined bits.
 2. BITS

INSERTA TEE SIZE	HOLE DIAMETER
4" (100 mm)	4 1/2" (112.5 mm)
6" (150 mm)	6 1/2" (162.5 mm)
8" (200 mm)	8 3/4" (218.8 mm)
10" (250 mm)	10 7/8" (271.9 mm)
12" (300 mm)	12 7/8" (321.8 mm)
15" (375 mm)	15 1/4" (401.6 mm)
18" (450 mm)	18 1/4" (467.0 mm)



3. 8 lb. (3.6 kg) hammer and 2" (50mm) x 4" (100mm) pipe. 4" (100mm) x 4" (100mm) x 15" (381 mm) bottle of INSERTA TEE solution - 16oz or 8oz supplied with order. If 6oz of water to 1 tablespoon of liquid SOD.
- INSTALLATION PROCEDURE:**

1. See Bit Diameters listed above. Make sure bit is perpendicular to mainline. Core proper size hole. Feel inside hole and clear any remaining material. **Core proper size hole. Feel inside hole and clear any remaining material.**
2. Insert the rubber sleeve into the core hole with the GOLD VERTICAL LINE ON THE RUBBER SLEEVE facing to the side of the mainline. The upper segment should be on top of the wall or rib and the lower segment should be on the inside of the pipe. Feel inside to be sure lower segment is fit against the inside wall.
3. Apply the INSERTA TEE solution supplied to the inside of the rubber sleeve and to the outside of the PVC hub adapter's gasket. **WARNING:** Using SOD tubes may result in hub adapter popping out!
4. Place the PVC hub adapter into the rubber sleeve. Make sure that the RED VERTICAL LINE ON THE PVC HUB ADAPTER IS IN LINE WITH THE GOLD VERTICAL LINE ON THE RUBBER SLEEVE. Push hub adapter in as far as possible by hand. Make sure hub adapter is perpendicular to mainline. Forcing hub adapter through at any angle may cause damage to rubber sleeve or hub adapter.
5. Place the 2 x 4 board on top of the PVC, hub adapter.
6. The RED HORIZONTAL LINE AT THE TOP OF THE HUB ADAPTER IS THE depth mark. This tells the installer just how far to drive the adapter into the rubber sleeve. Using the board and hammer, drive the PVC hub adapter into the rubber sleeve where the HORIZONTAL RED LINE ON THE PVC HUB ADAPTER MEETS THE TOP OF THE RUBBER SLEEVE.
7. Place the stainless band around the top of the rubber sleeve and tighten down.
8. Install side service pipe in normal manner.

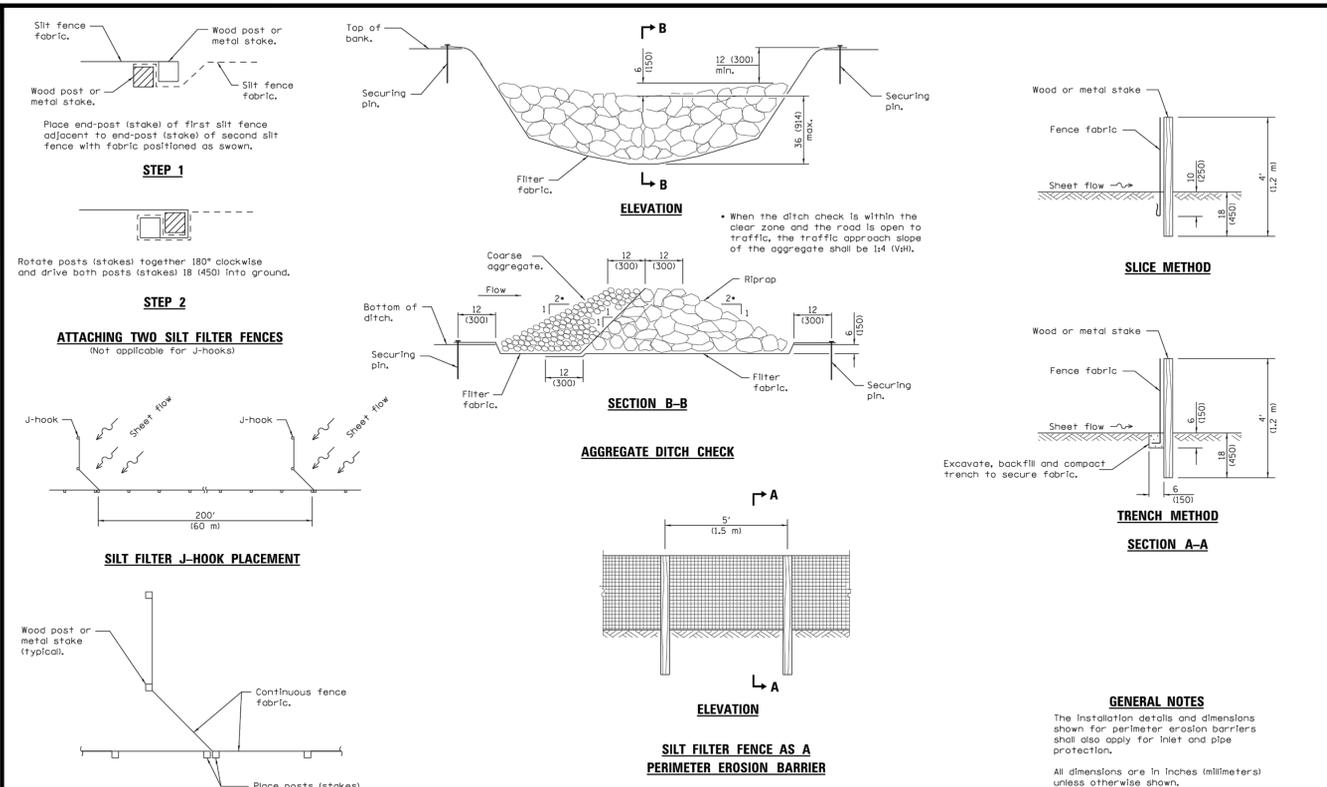
*Do not install below spring line.
 *CIP & PIP installations: remove clay/concrete from area where connection is to occur.
 Next go to Installation Procedure.

INSERTA TEE
 630-301-6811 or 630-301-6841
 www.insertatee.com
 MADE IN USA

9. All existing sanitary construction must be securely plugged per the approved plans. This plug must be maintained to prevent unnecessary flow or discharge into the existing sanitary system. This plug may only be removed after all construction drainage has been properly removed.
10. No ground water, run off, or surface water is allowed to enter any sanitary sewer system before, during or after any sanitary sewer service or mainline construction installation or repair. In addition, draining or pumping ground or surface water into any sanitary sewer system is strictly prohibited.
11. No aggregate, dirt, clay, debris, or foreign material is allowed to enter any sanitary sewer system. Any individual, contractor or company causing said material to enter an existing sanitary sewer system shall clean and remove this debris from the system at their expense, and under the supervision of the District and/or the governing municipality. Furthermore, should it be determined that this material caused a system surcharge or backup resulting in property loss or damage, this same responsible party, individual or company shall make proper restitution, restoration, clean up and disinfection as will be required for proper health and safety.
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7. All sanitary building sewers, including new construction and repairs, shall be inspected by the District.
8. The District performs all water service inspections for the City of Aurora and Villages of Montgomery, Sugar Grove and North Aurora and shall consist of the following:
 - All domestic water connections shall be a minimum of one (1) inch in diameter and shall be Type K copper. All domestic water connections larger than two (2) inches in diameter may require D.I.P., as well as an inspection by a Professional Engineer representing the municipality in which the service is being constructed.
 - Each water service shall be in its own trench with ten (10) feet (minimum) of horizontal separation from the sanitary sewer or main, and be at a minimum depth of five (5) feet. Where this is not possible, refer to the District's sewer and water separation detail and the Illinois Plumbing Code.
 - Water shut-offs shall be placed outside of driveways, curbs, sidewalks, or any surfaced area.
 - Fire lines, usually made of D.I.P., shall not be inspected by the District.

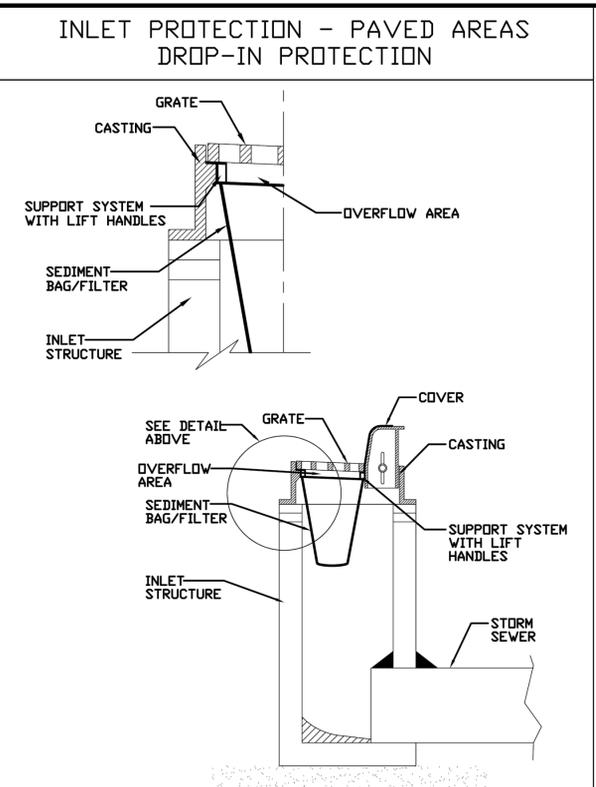
The sanitary sewer contractors for all public sewer extension projects shall notify the District twenty-four (24) hours prior to the start of work. Notification shall be done via telephone at (630) 301-6882. For service connections, call twenty-four (24) hours in advance to schedule an inspection at (630) 301-68



DATE	REVISIONS
1-1-13	Corrected notation for flowline (E) on SEDIMENT BASIN ELEVATION.
1-1-12	Dim'ted hay/straw perimeter barrier. Added SLICE METHOD to SECTION A-A.

TEMPORARY EROSION CONTROL SYSTEMS
(Sheet 1 of 2)

STANDARD 280001-07



REFERENCE	DATE
Project	_____
Designed	_____
Checked	_____
Approved	_____

STANDARD DWG. NO. IUM-561D
SHEET 1 OF 1
DATE 01-11-11

protection shall involve avoiding damage to both the above ground tree trunk, including the branches, and the below ground root system. Roots are the most vital part of a tree with the majority of nutrient and water absorbing roots in the upper 18 to 24 inches of soil. Tree roots must be protected from severing or changes in their soil environment (such as compaction or grade changes) to prevent irreversible tree decline or death in the coming years.

The Critical Root Zone, or CRZ, is the area immediately surrounding a tree that needs to be protected from damage. The size of this area, measured from the center of the tree, is ideally a circle with a radius of one foot for each inch of trunk diameter. The depth of the CRZ extends to 4 feet below the natural ground surface level. In a municipal parkway setting with utilities and paved or concrete surfaces, the CRZ cannot always be the ideal size. Instead, the CRZ has been adjusted to form a rectangle around the parkway tree trunk with the minimum dimensions listed in the following table. At a minimum, the listed CRZ shall be fenced with a 6 foot high temporary chain link construction fence secured to metal posts spaced no further than 10 feet apart. Whenever possible, the entire parkway shall be fenced in except where access has been permitted. Any exceptions shall be noted on the drawings submitted for a given permit.

PARKWAY TREE DIAMETER AT 4.5' (MINIMUM CURB TO SIDEWALK)	WIDTH FROM STREET TO PROPERTY (MINIMUM)	LENGTH ALONG STREET (MINIMUM)	DEPTH
0-12.0 INCHES	10.0 FEET	10 FEET	4 FEET
12.1-24.0 INCHES	10.0 FEET	20 FEET	4 FEET
24.1 OR MORE INCHES	10.0 FEET	30 FEET	4 FEET

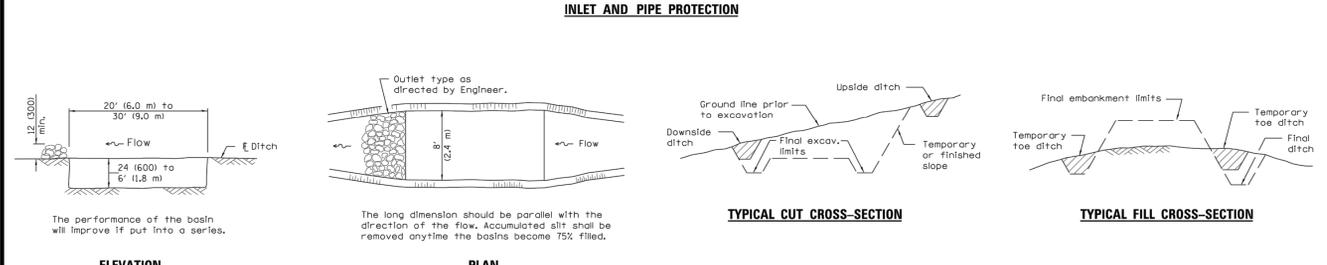
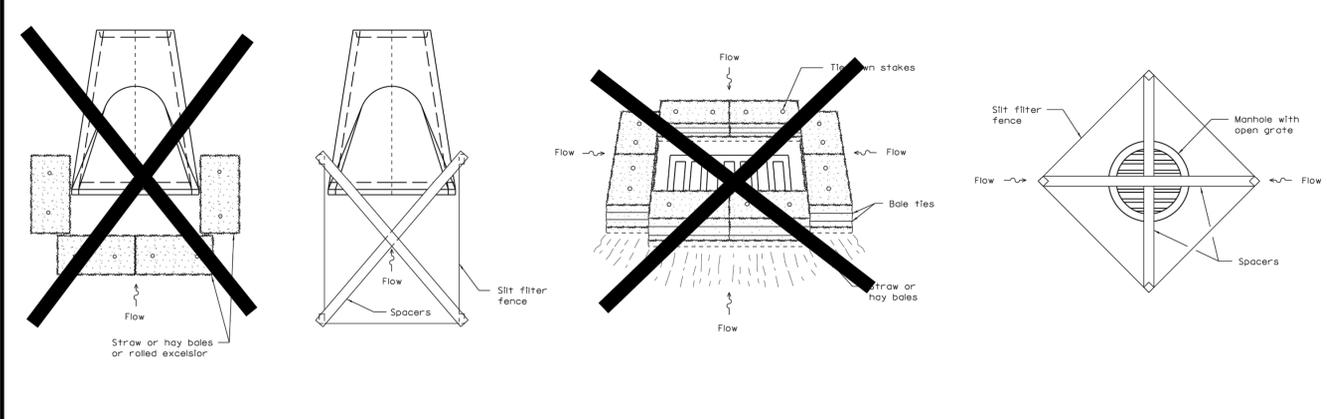
For public parkway trees, roots located within the determined CRZ shall be protected from compaction, severing, and the storage of materials or equipment. Utilities must be augered underneath the tree as shown above. In cases when severing of roots within a portion of the CRZ may be unavoidable (ex. sidewalk installation, curb replacement, water main or sanitary main disconnects in the parkway), subject to the approval of the Village Forester, the smallest possible area shall be disturbed and sharp clean cuts shall be made on root ends to promote wound closure and root regeneration. All CRZ fencing shall be a 6 foot high temporary chain link construction fence secured to metal posts spaced no further than 10 feet apart, and shall be maintained daily in good condition. Any exceptions to the fence dimensions or parkway position shall be noted on the permit.

In addition to fines and citations that may be assessed for violations of any municipal code (such as not maintaining fencing around the CRZ or unauthorized removal of parkway trees), violators may be subject to the following provisions:

- issuance of an invoice for the monetary loss in tree value or partial value due to damage to either the above ground or below ground portions of the parkway tree, or unauthorized tree removal.
- forfeiture of bonds issued for the work should funds be sufficient to cover tree values and fines.
- costs of repairs, such as pruning or cabling, or costs for removal of the damaged parkway tree along with the stump if the tree cannot remain in the right-of-way.
- fines of \$500 for the 1st offense; \$1,000 for the 2nd offense; \$2,500 for 3rd and subsequent offenses.
- each day during which a violation continues shall be construed as a separate and distinct offense.

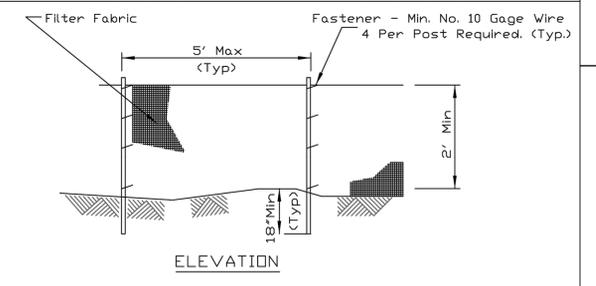
N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		J.M.L.	M.D.M.	PARKWAY TREE PROTECTION REQUIREMENTS
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	

DRAWING NO. TRE-01
I:\LIBRARY\DETAILS\TREES\TRE-01



REFERENCE	DATE
Project	_____
Designed	_____
Checked	_____
Approved	_____

STANDARD DWG. NO. IUM-620A
SHEET 1 OF 2
DATE 3-16-12

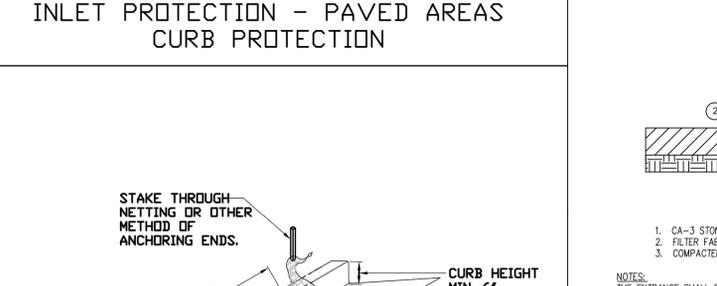
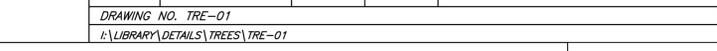


NOTES:

1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE	DATE
Project	_____
Designed	_____
Checked	_____
Approved	_____

STANDARD DWG. NO. IUM-561C
SHEET 1 OF 1
DATE 01-11-11



REFERENCE	DATE
Project	_____
Designed	_____
Checked	_____
Approved	_____

STANDARD DWG. NO. IUM-561C
SHEET 1 OF 1
DATE 01-11-11

CHELSEA SENIOR COMMONS
ROUTE 47
SUGAR GROVE, IL

EROSION PROTECTION DETAILS

DRAWN BY: SKB
SCALE: NTS
JOB NUMBER: 17-229
CHECKED BY: CML
DATE: 09/11/2017
SHEET: C 3.0

Consulting Civil Engineering
Land Planning & Surveying
1050 State Route 126
Plainfield, Illinois 60544
voice 815-254-0505
fax 815-436-5158

C.M. Lavoie & Associates, INC.

#	DATE	DESCRIPTION
1	10/12/17	PER VILLAGE COMMENTS
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Frame and Grate Selection Procedure

Barrier Curb

- If storm sewer is less than 12" in diameter, use IDOT Type 1 OL (Nee Nah R-1713 or EJ 1050Z1)
- If storm sewer is equal to or greater than 12" in diameter:
 - use EJW 7045Z 7050T1 7045M1 Set for CBs and inlets
 - use Nee Nah R-3250-1 or EJW 7550Z with Hood for junctions
- If storm sewer is in special drainage area, use custom frame/grate as approved

Mountable or Depressed Curb

- use IDOT Type 1 OL (Nee Nah R-1713 or EJ 1050Z1) **grate must meet ADA requirements in sidewalk or pedestrian areas)

Ditches and Non-paved Sags

- Use IDOT Type 8 (Nee Nah R-4340-B, Nee Nah R-4342, OR EJ 6527N1)

Junctions (Storm Manholes, Water Valve Vaults)

- Use IDOT Type 1 CL (Nee Nah R-1713 or EJ 1050Z1)

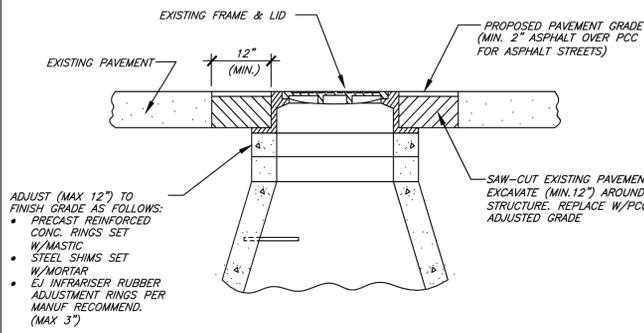
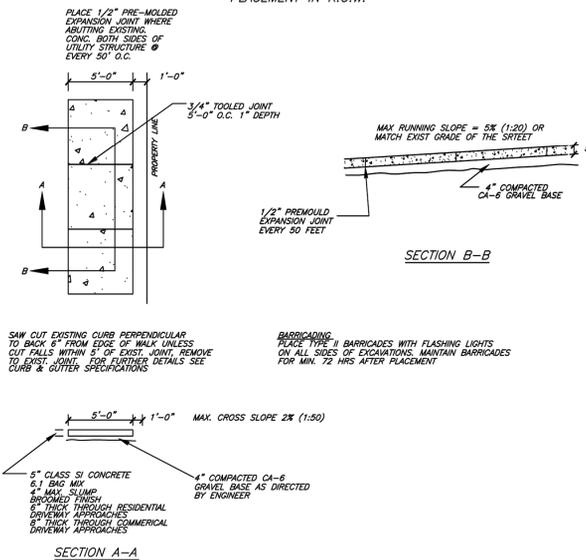
Note: All closed lids shall be stamped "WATER" or "STORM," and all storm inlets shall be stamped "DUMP NO WASTE, DRAINS TO FRESH WATER" or similar as approved.

- NOTES:
1. AFTER STRUCTURE HAS BEEN ADJUSTED AND IF STREET IS OPEN TO TRAFFIC, A TYPE 1 BARRICADE W/FLASHER SHALL BE PLACED AT EACH STRUCTURE.
 2. SANITARY MANHOLE TO BE SET W/MASTIC.

ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE "STANDARDS SPECIFICATION FOR ROAD & BRIDGE CONSTRUCTION" AS ADOPTED BY THE ILLINOIS DEPT. OF TRANSPORTATION UNLESS OTHERWISE SPECIFIED HEREIN

ABSOLUTELY NO CHLORIDE ACCELERANT OR WIRE MESH WILL BE PERMITTED

TYPICAL SIDEWALK PLACEMENT IN R.O.W.

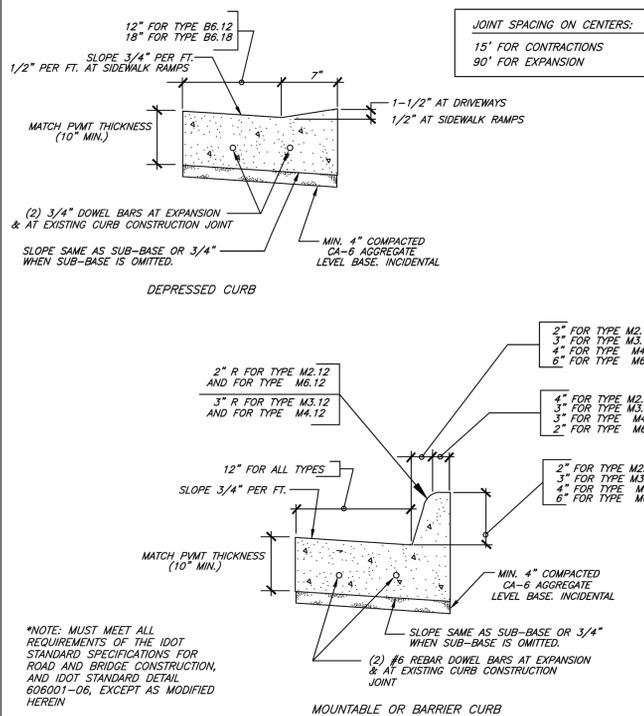


BRICK AND MORTAR NOT ALLOWED

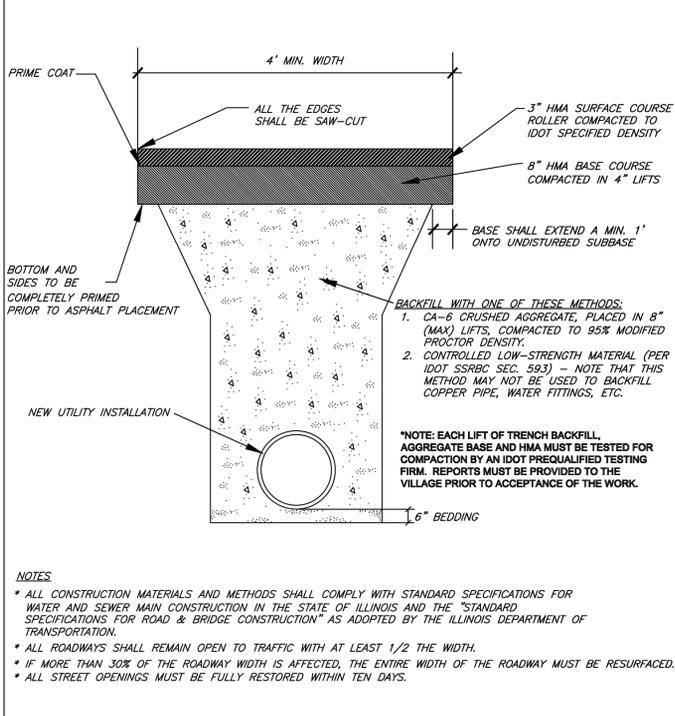
N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	06/01/04		R.W.B.	M.D.M.	UTILITY STRUCTURE ADJUSTMENT
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. GEN-02					
I:\LIBRARY\DETAILS\GENERAL\GEN-02					

N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/23/07		J.P.T.	M.D.M.	FRAMES AND GRATES
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. GEN-01					
I:\LIBRARY\DETAILS\GENERAL\GEN-01					

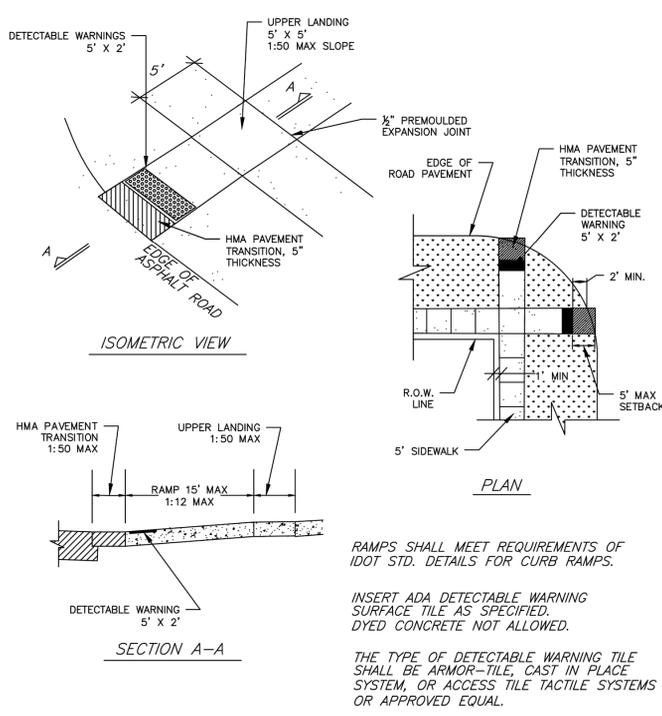
N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	10/10/11		S.A.V.	A.J.S.	PUBLIC SIDEWALK
	05/01/12		T.J.T.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. SWK-01					
I:\LIBRARY\DETAILS\SIDEWALK\SWK-01					



N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		J.M.L.	M.D.M.	CURB AND GUTTER
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. PVT-10					
I:\LIBRARY\DETAILS\PAVEMENT\PVT-10					



N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		J.M.L.	M.D.M.	STREET OPENING BITUMINOUS
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. PVT-17					
I:\LIBRARY\DETAILS\PAVEMENT\PVT-17					



N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	04/12/07		D.J.G.		A.D.A RAMP ON NON-CURBED STREETS
	03/25/11		S.A.V.	A.J.S.	
	03/26/12		T.J.T.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. SWK-03					
I:\LIBRARY\DETAILS\SIDEWALK\SWK-03					

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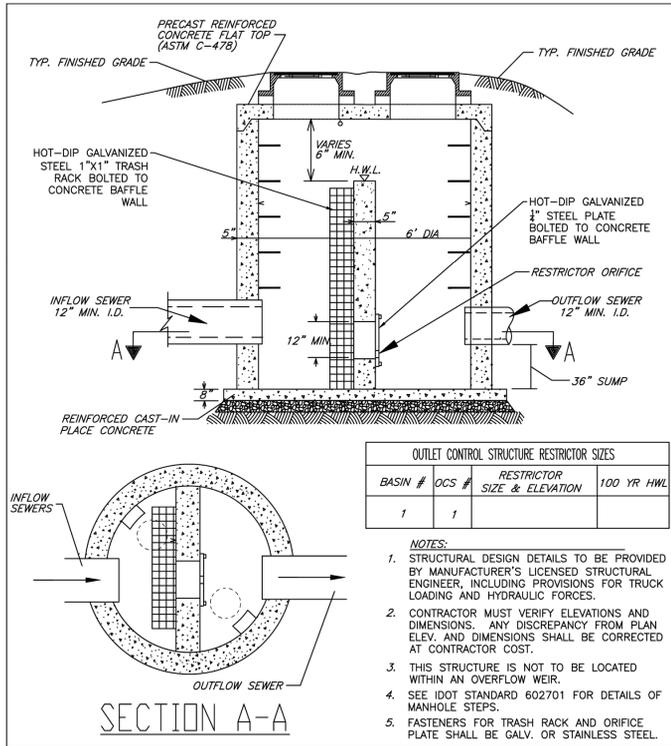
CHELSEA SENIOR COMMONS
ROUTE 47
SUGAR GROVE, IL

SUGAR GROVE DETAILS

Consulting Civil Engineering
Land Planning & Surveying
1050 State Route 126
Plainfield, Illinois 60544
voice 815-254-0505
fax 815-436-5158

DRAWN BY: SKB	CHECKED BY: CML	
SCALE: NTS	DATE: 09/11/2017	
JOB NUMBER: 17-229	SHEET: C 3.1	
#	DATE	DESCRIPTION
1	10/12/17	PER VILLAGE COMMENTS
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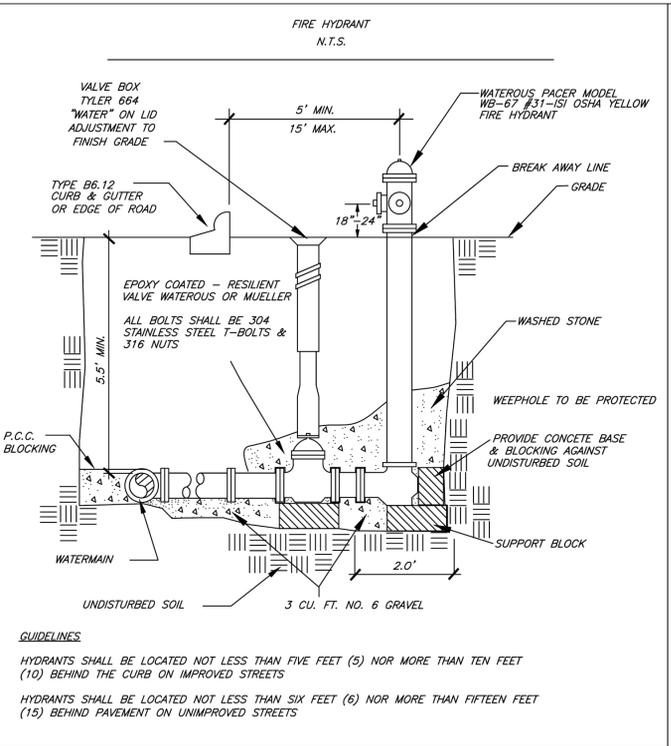
C.M. Lavoie & Associates, INC.



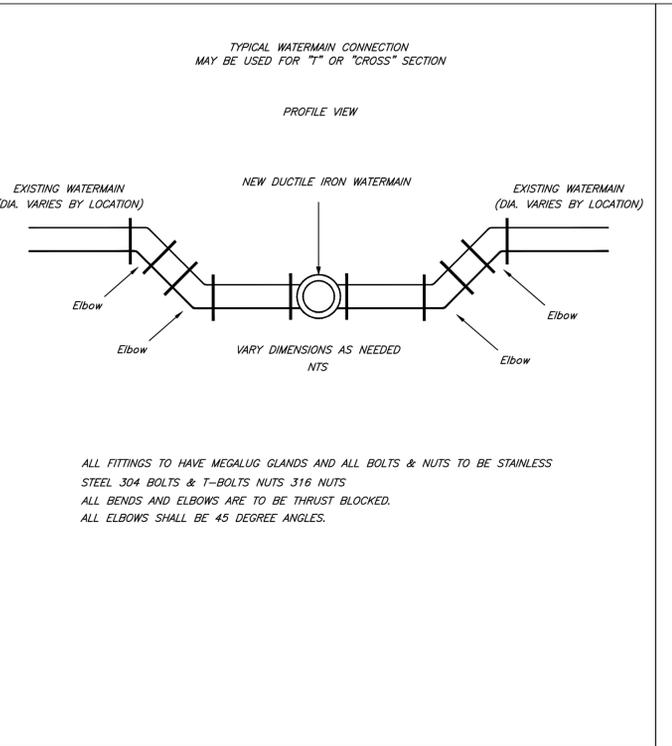
BASIN #	OCS #	RESTRICTOR SIZE & ELEVATION	100 YR HWL
1	1		

- NOTES:
- STRUCTURAL DESIGN DETAILS TO BE PROVIDED BY MANUFACTURER'S LICENSED STRUCTURAL ENGINEER, INCLUDING PROVISIONS FOR TRUCK LOADING AND HYDRAULIC FORCES.
 - CONTRACTOR MUST VERIFY ELEVATIONS AND DIMENSIONS. ANY DISCREPANCY FROM PLAN ELEV. AND DIMENSIONS SHALL BE CORRECTED AT CONTRACTOR COST.
 - THIS STRUCTURE IS NOT TO BE LOCATED WITHIN AN OVERFLOW WEIR.
 - SEE IDOT STANDARD 602701 FOR DETAILS OF MANHOLE STEPS.
 - FASTENERS FOR TRASH RACK AND ORIFICE PLATE SHALL BE GALV. OR STAINLESS STEEL.

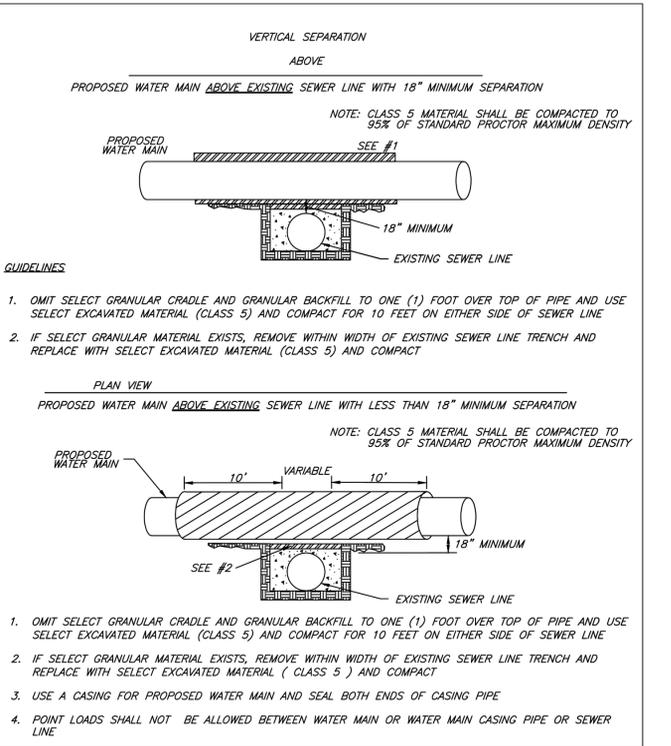
N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	06/09/04		W.J.M.	M.D.M.	OUTLET CONTROL STRUCTURE - 6'
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. STM-03 I:\LIBRARY\DETAILS\STORM\STM-03					



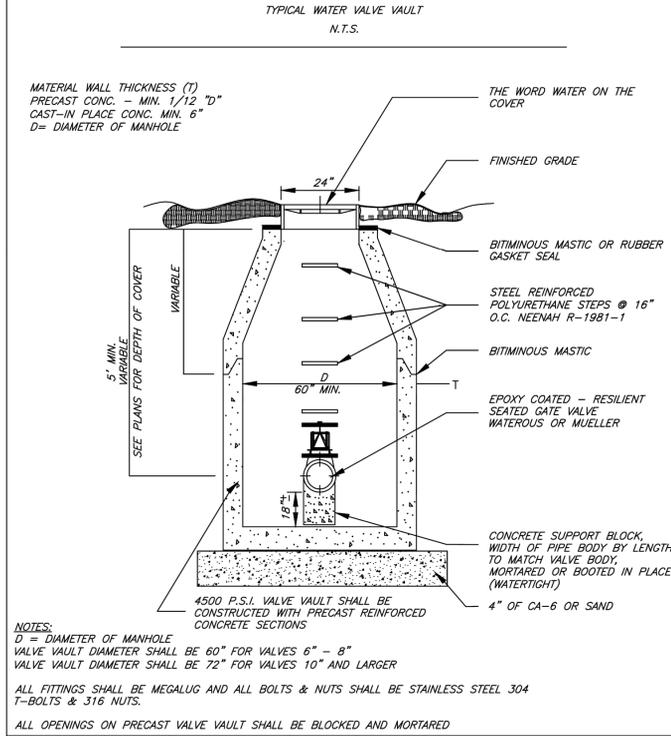
N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		W.J.M.	M.D.M.	TYPICAL HYDRANT INSTALLATION
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	
DRAWING NO. WTR-10 I:\LIBRARY\DETAILS\WATER\WTR-10					



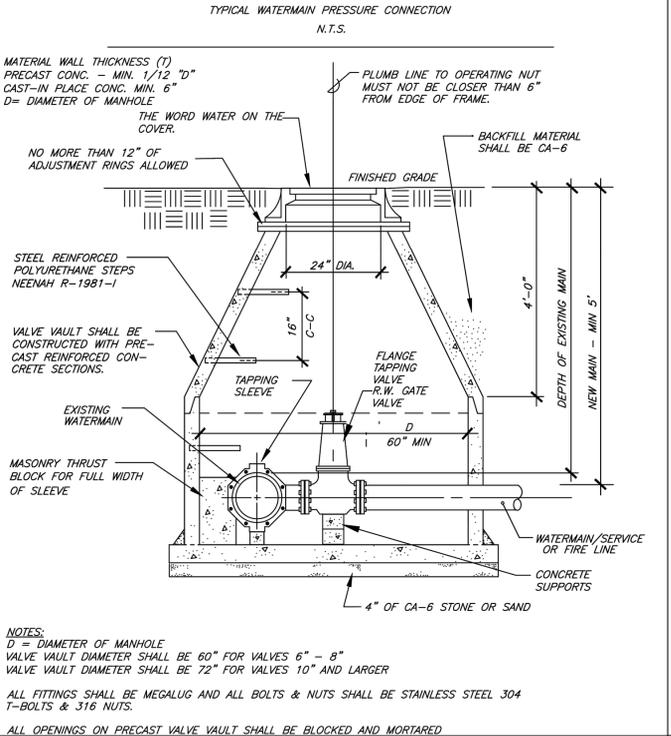
N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		W.J.M.	M.D.M.	WATERMAIN CONNECTION
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
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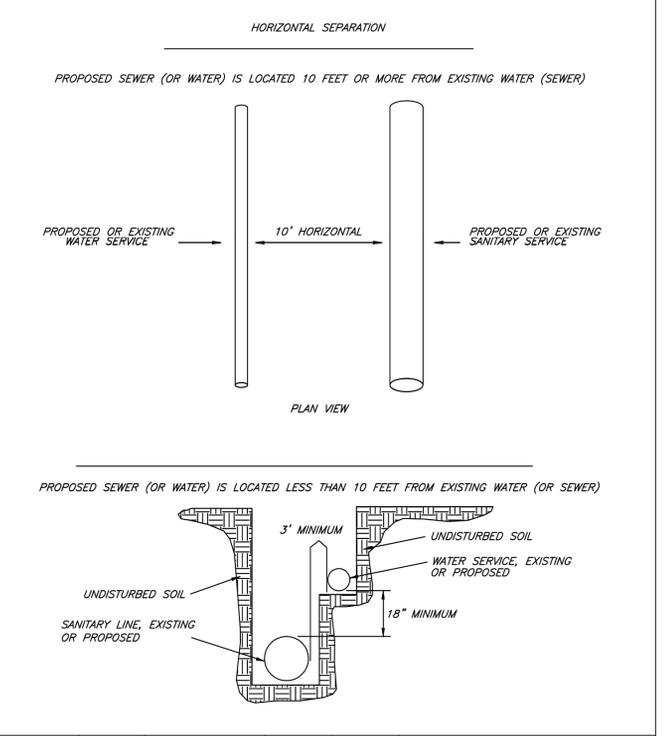
N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		W.J.M.	M.D.M.	WATER AND SEWER SEPARATION REQUIREMENTS VERTICAL SEPARATION ABOVE
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. WTR-03 I:\LIBRARY\DETAILS\WATER\WTR-03					



N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		W.J.M.	M.D.M.	WATER VALVE VAULT
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	
DRAWING NO. WTR-08 I:\LIBRARY\DETAILS\WATER\WTR-08					



N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		W.J.M.	M.D.M.	WATERMAIN PRESSURE CONNECTION
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	
DRAWING NO. WTR-09 I:\LIBRARY\DETAILS\WATER\WTR-09					



N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		W.J.M.	M.D.M.	WATER AND SEWER SEPARATION REQUIREMENTS HORIZONTAL SEPARATION
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	
DRAWING NO. WTR-02 I:\LIBRARY\DETAILS\WATER\WTR-02					

CHELSEA SENIOR COMMONS
ROUTE 47
SUGAR GROVE, IL

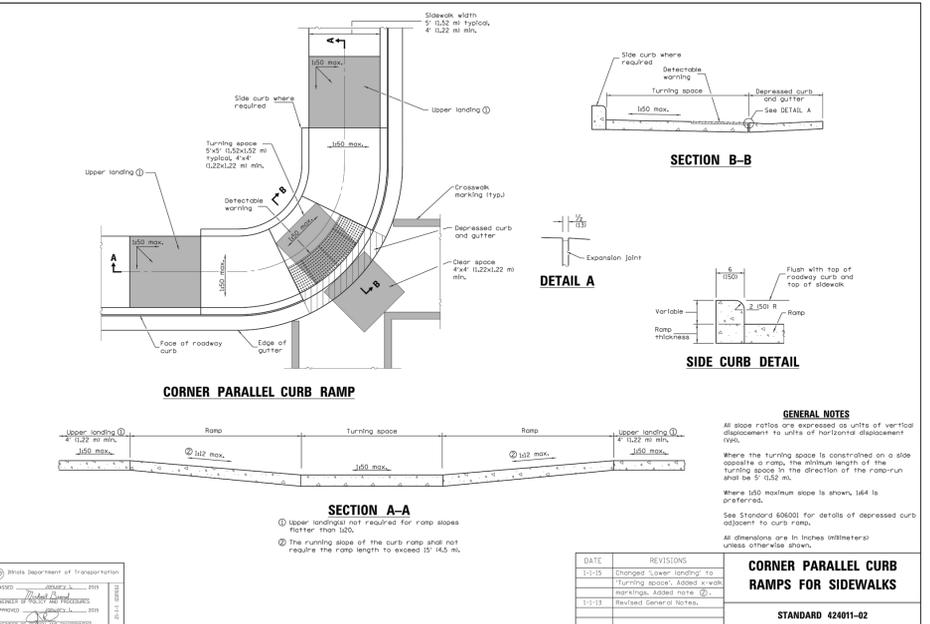
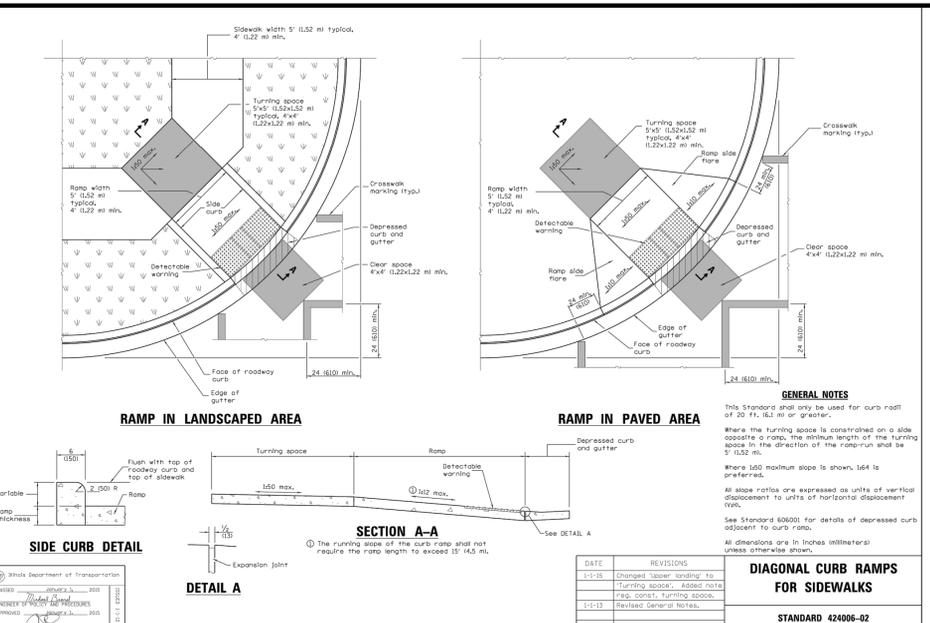
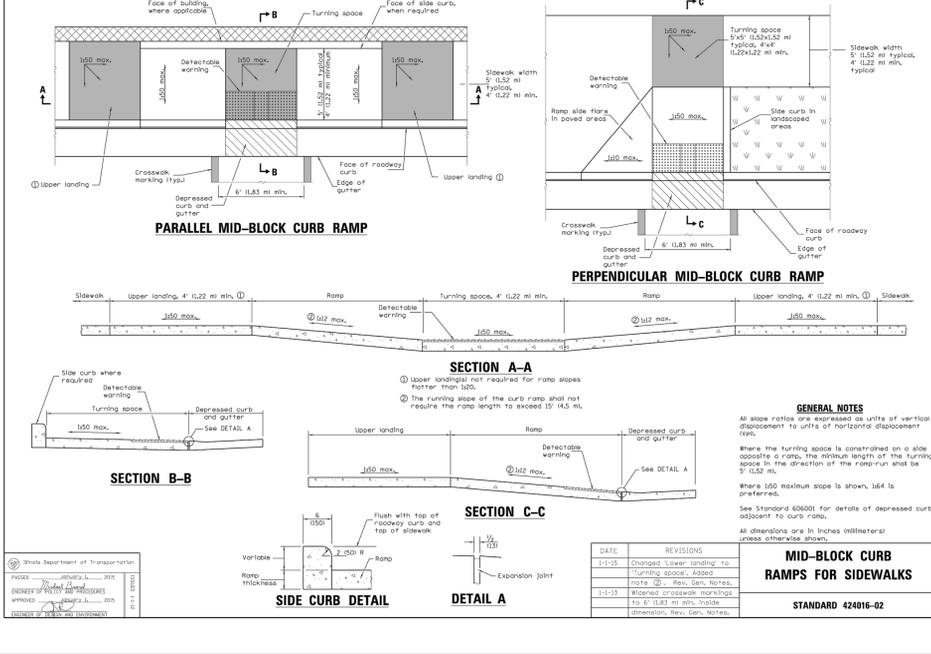
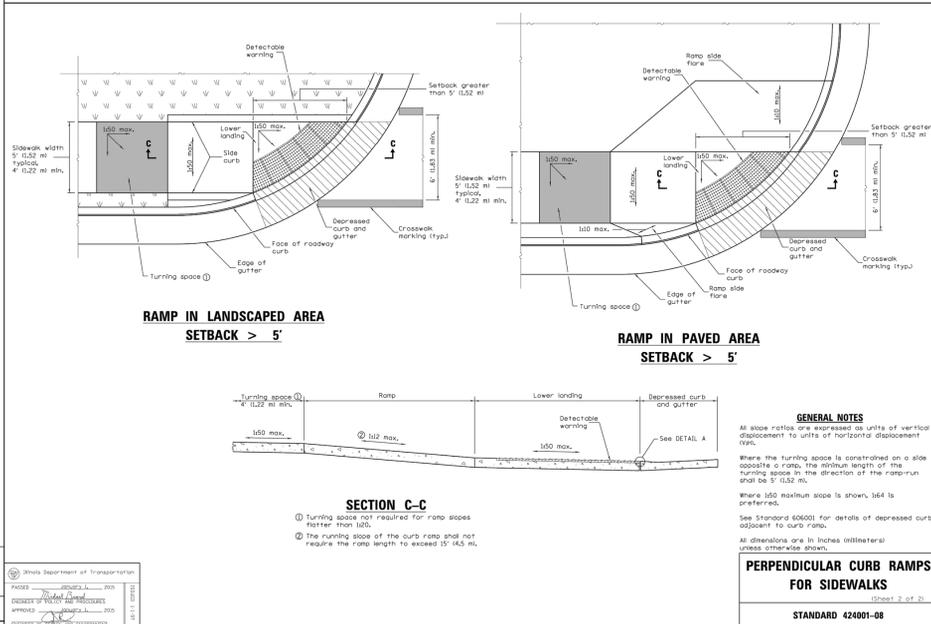
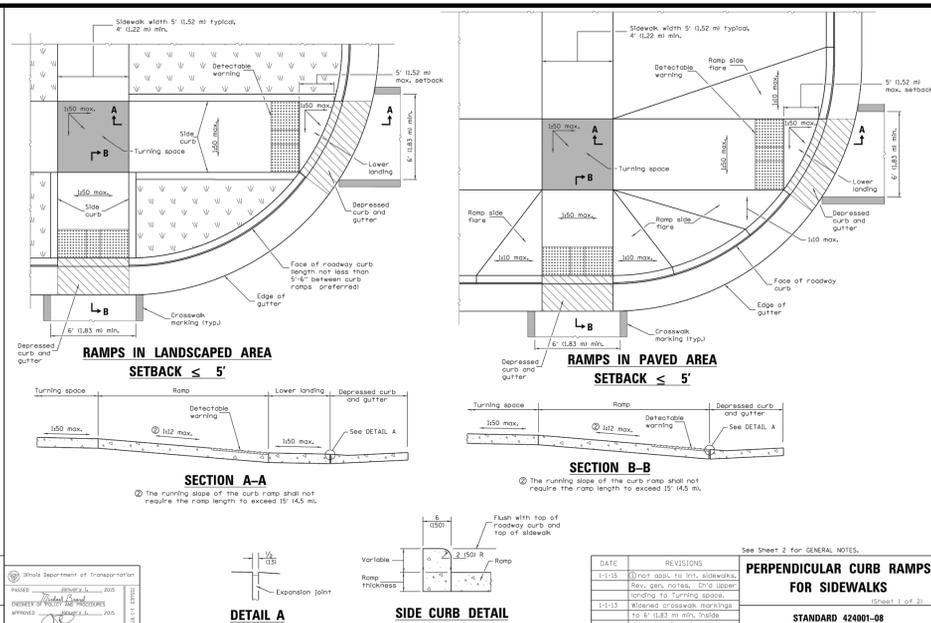
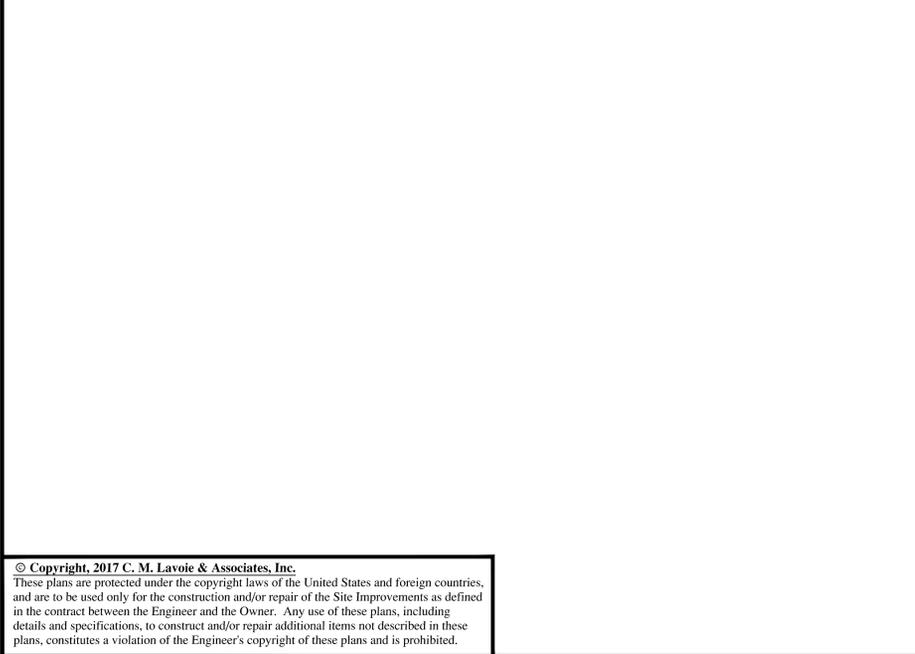
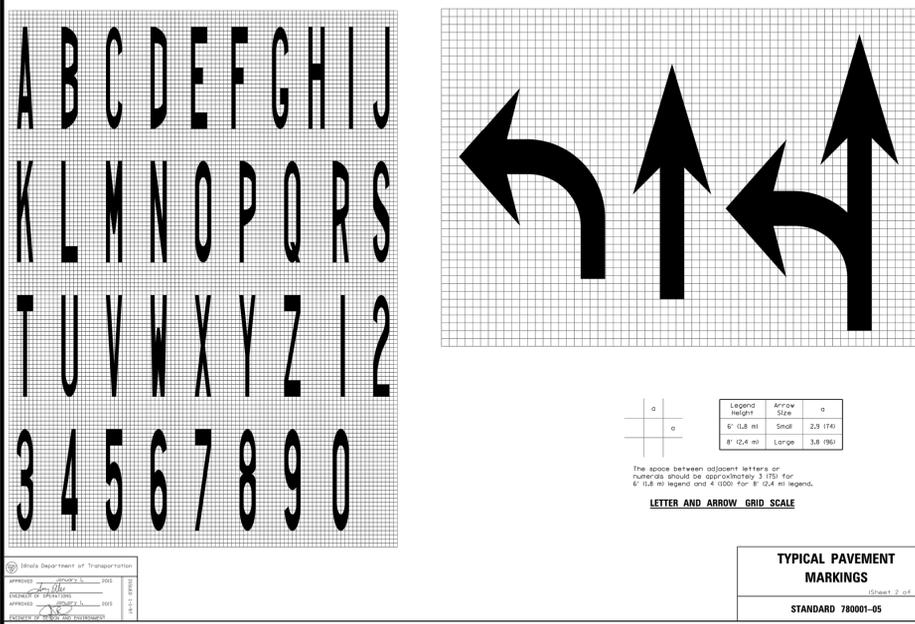
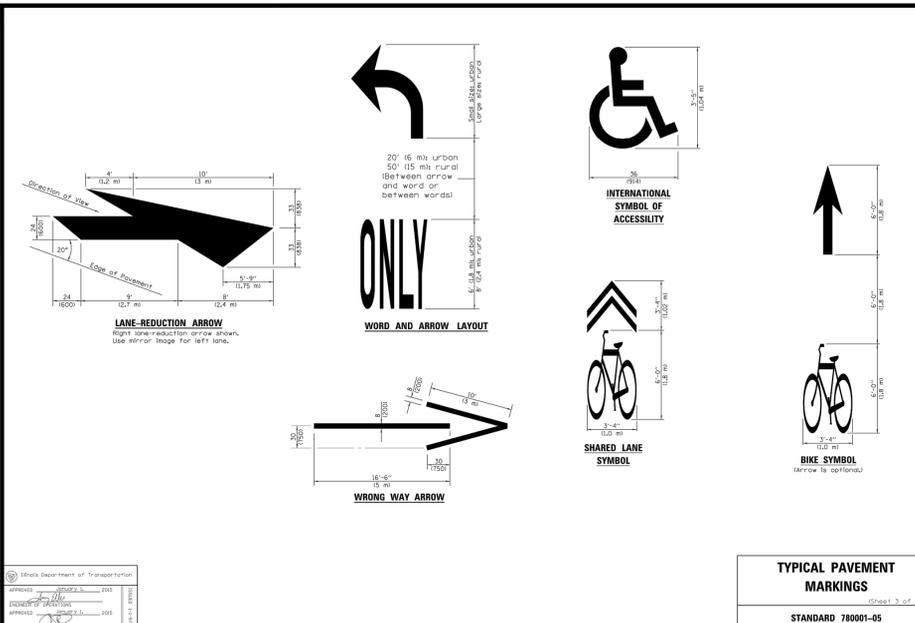
SUGAR GROVE DETAILS

CONSULTING CIVIL ENGINEERING
Land Planning & Surveying
1050 State Route 126
Plainfield, Illinois 60544
voice 815-254-0505
fax 815-436-5158

C.M. Lavoie & Associates, INC.

DRAWN BY: SKB	CHECKED BY: CML	
SCALE: NTS	DATE: 09/11/2017	
JOB NUMBER: 17-229	SHEET: C 3.2	
#	DATE	DESCRIPTION
1	10/12/17	PER VILLAGE COMMENTS
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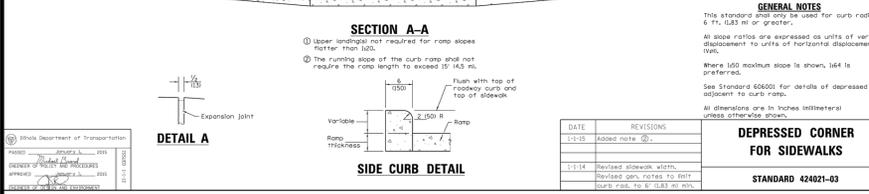
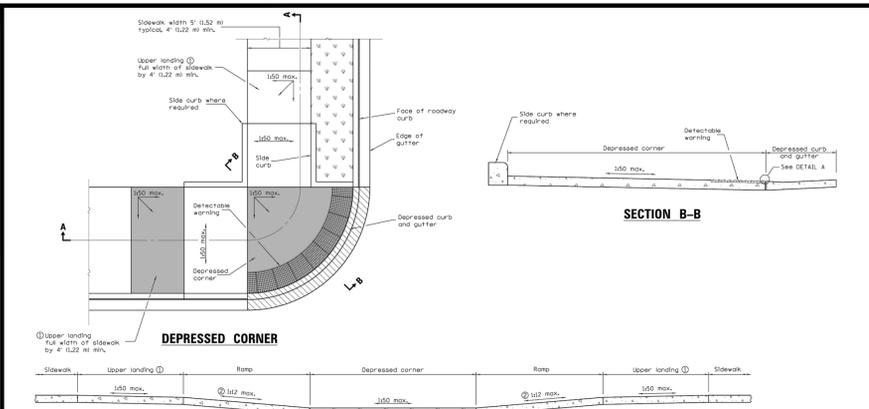
CHELSEA SENIOR COMMONS
ROUTE 47
SUGAR GROVE, IL

SUGAR GROVE DETAILS

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Land Planning & Surveying
1050 State Route 126
Plainfield, Illinois 60544
voice 815-254-0505
fax 815-436-5158

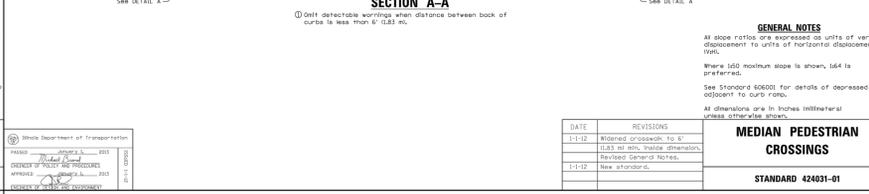
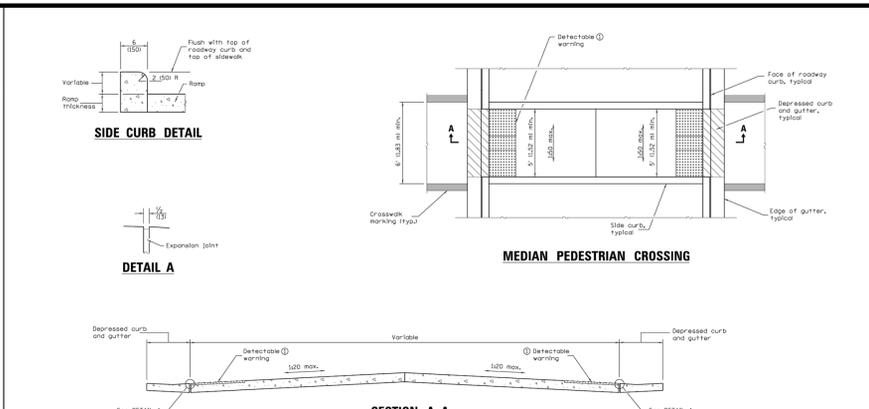
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SCALE: NTS	DATE: 09/11/2017	
JOB NUMBER: 17-229	SHEET: C 3.4	
#	DATE	DESCRIPTION
1	10/12/17	PER VILLAGE COMMENTS
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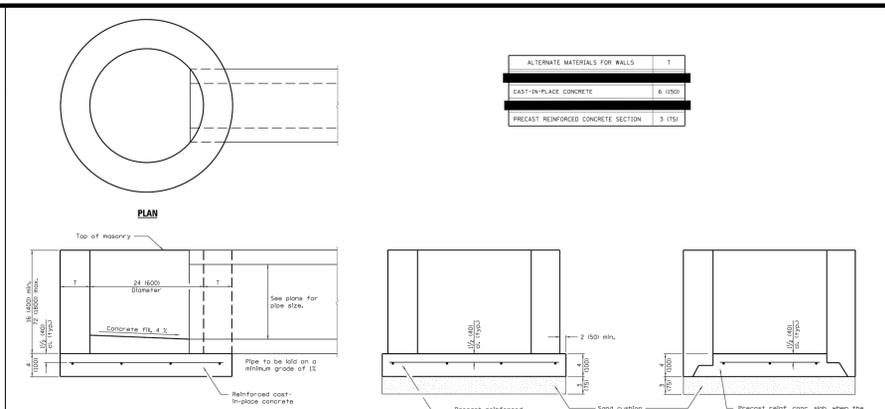
DATE	REVISIONS
1-1-13	Added note 10.
1-1-14	Revised sidewalk width.
1-1-14	Revised curb notes to SH1.
1-1-14	Curb rise to 6" (152.4 mm).

DEPRESSION CORNER FOR SIDEWALKS
STANDARD 424021-03



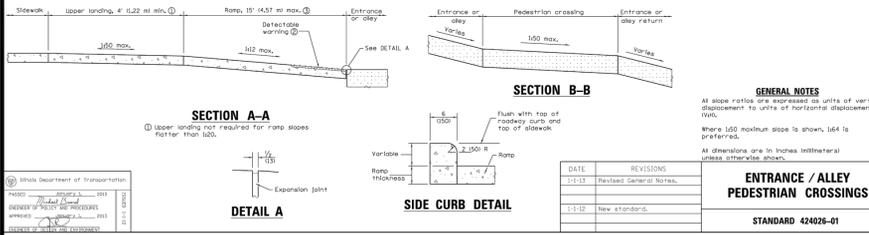
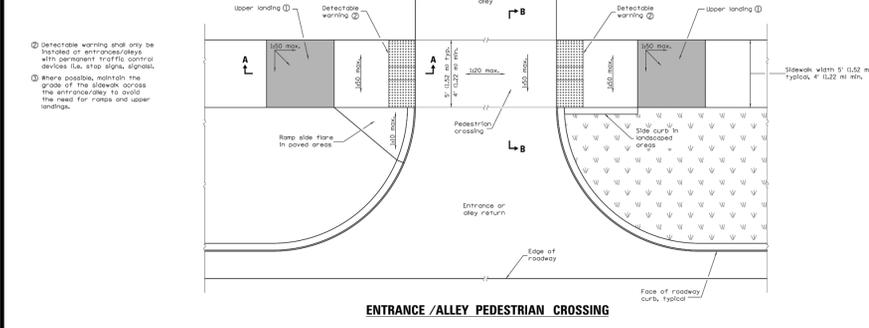
DATE	REVISIONS
1-1-12	Added crosswalk to 6" (152.4 mm) min. inside dimension.
1-1-12	Revised General Notes.
1-1-12	New standard.

MEDIAN PEDESTRIAN CROSSINGS
STANDARD 424031-01



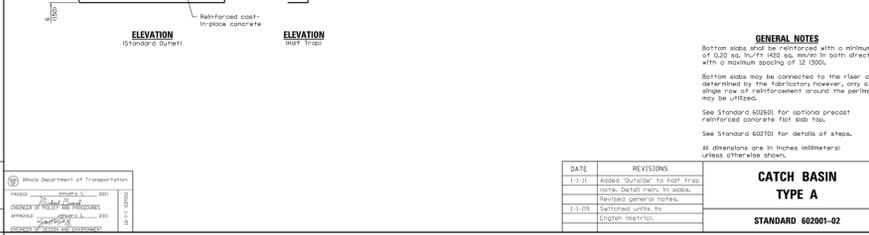
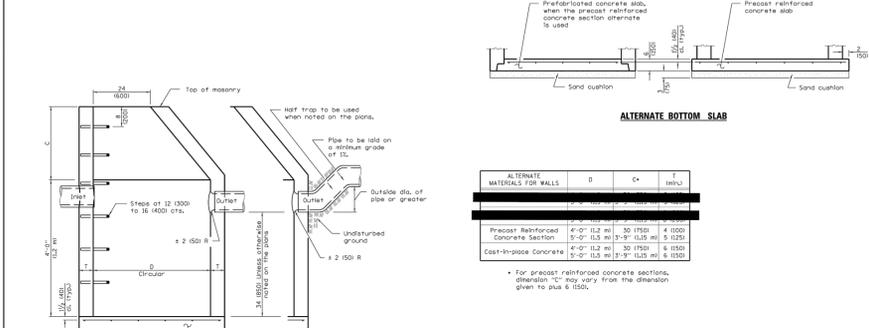
DATE	REVISIONS
1-1-14	Decreased height to 12" (305 mm).
1-1-15	Detailed rain in abbas.
1-1-15	Added note, limit to height.
1-1-15	Added general notes.

INLET - TYPE A
STANDARD 602301-04



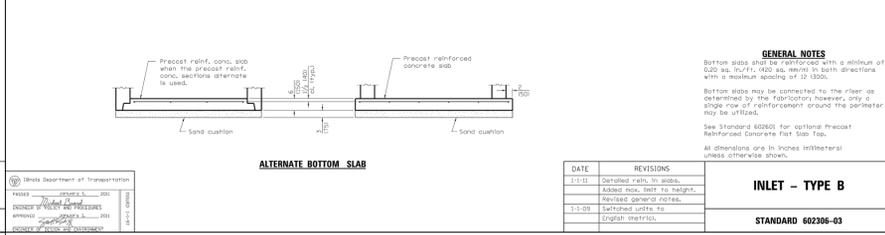
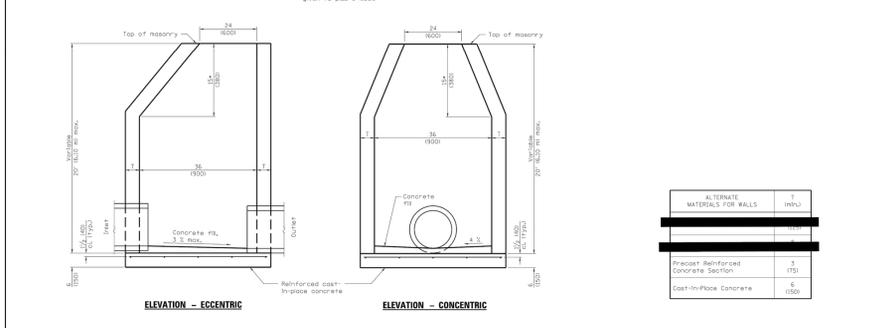
DATE	REVISIONS
1-1-13	Revised General Notes.
1-1-12	New standard.

ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
STANDARD 424026-01



DATE	REVISIONS
1-1-11	Added 'OUTSIDE' to RFT TRAP.
1-1-11	Added note, rain in abbas.
1-1-09	Revised general notes.
1-1-09	Revised units to English metrics.

CATCH BASIN TYPE A
STANDARD 602301-02



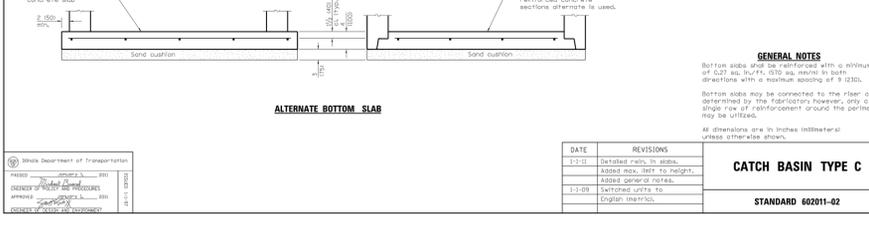
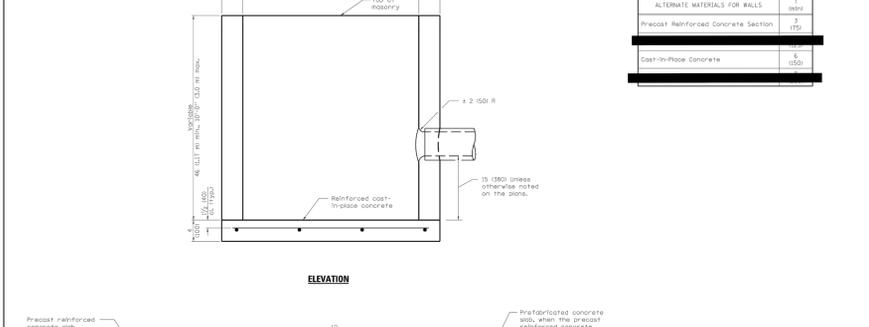
DATE	REVISIONS
1-1-11	Detailed rain in abbas.
1-1-11	Added note, limit to height.
1-1-09	Revised units to English metrics.

INLET - TYPE B
STANDARD 602306-03



DATE	REVISIONS
1-1-11	Detailed rain in abbas.
1-1-11	Added note, limit to height.
1-1-09	Revised units to English metrics.

CATCH BASIN TYPE C
STANDARD 602301-02



DATE	REVISIONS
1-1-11	Detailed rain in abbas.
1-1-11	Added note, limit to height.
1-1-09	Revised units to English metrics.

CATCH BASIN TYPE C
STANDARD 602301-02

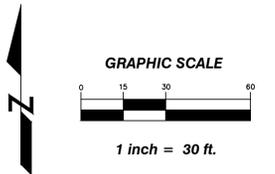
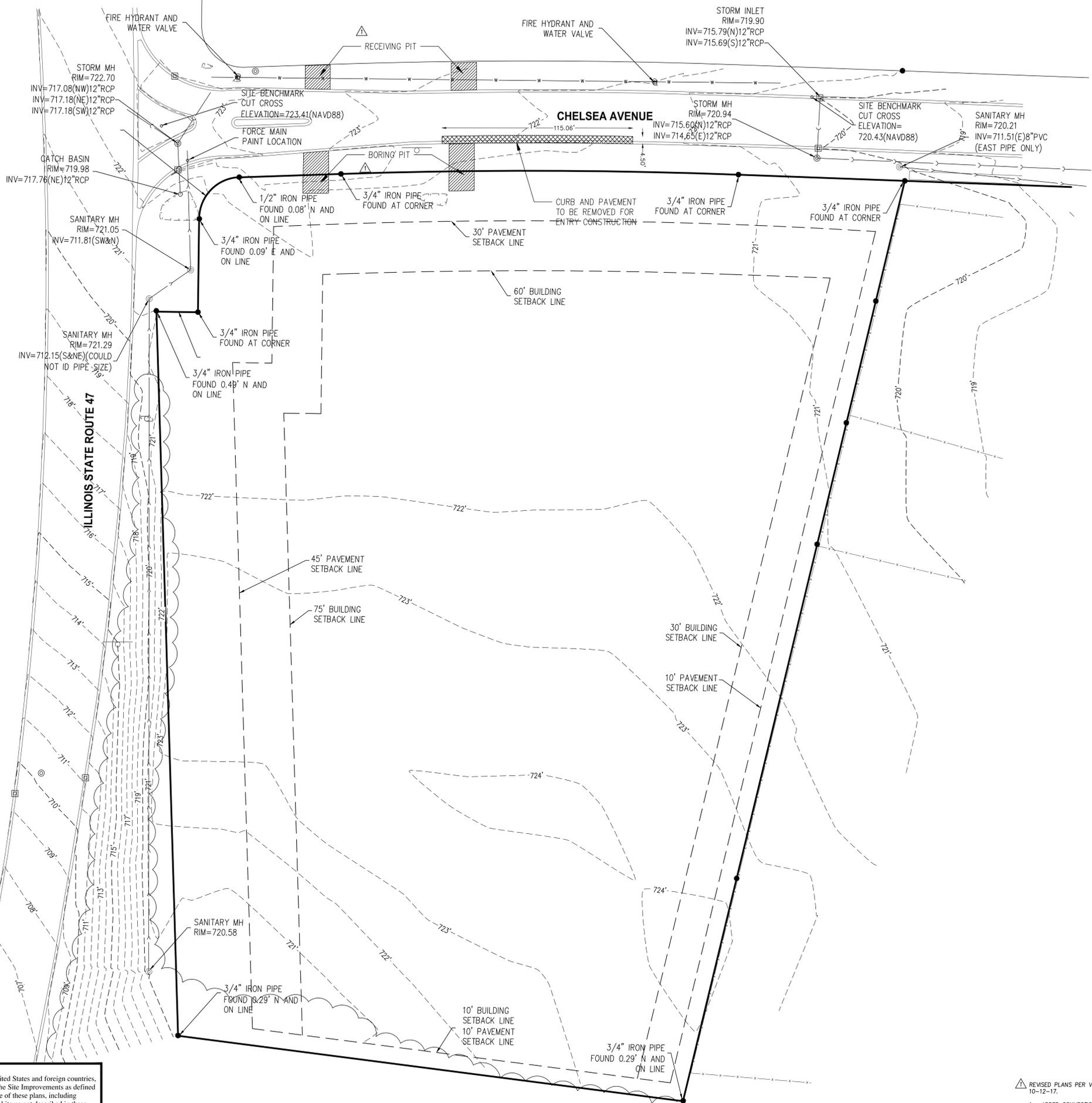
CHELSEA SENIOR COMMONS
ROUTE 47
SUGAR GROVE, IL

SUGAR GROVE DETAILS

Consulting Civil Engineering
Land Planning & Surveying
1050 State Route 126
Plainfield, Illinois 60544
voice 815-254-0505
fax 815-436-5158

DRAWN BY: SKB	CHECKED BY: CML	
SCALE: NTS	DATE: 09/11/2017	
JOB NUMBER: 17-229	SHEET: C 3.5	
#	DATE	DESCRIPTION
1	10/12/17	PER VILLAGE COMMENTS
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LEGEND

- EXISTING BITUMINOUS PAVEMENT FULL DEPTH REMOVAL AND CONCRETE CURB TO BE REMOVED
- DIRECTIONAL BORING/RECEIVING PITS FOR PROPOSED 8" DIP WATER SERVICE

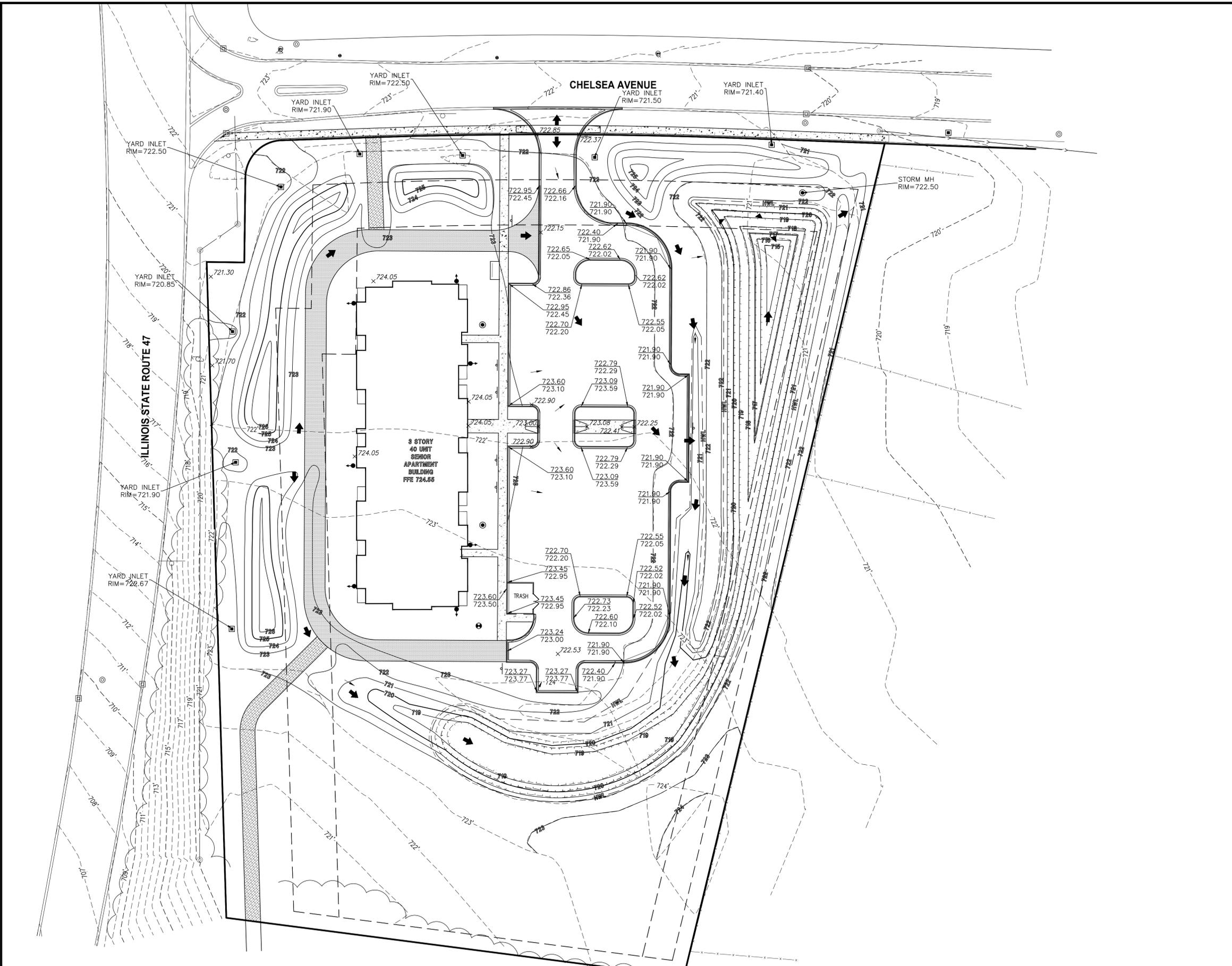
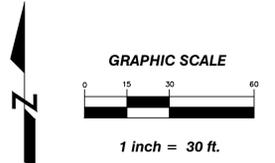
NOTES

1. EXISTING GRADES AND IMPROVEMENTS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY WITH THE PLAN SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
2. THE CONTRACTOR SHALL PROVIDE NECESSARY PROTECTION TO ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
3. NORTH ARROW AND BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE NAD83, 2011 ADJUSTMENT.
4. IMPROVEMENT LOCATIONS ARE BASED ON A FIELD SURVEY BY C.M. LAVOIE AND ASSOCIATES, INC. ON AUGUST 18, 2016.
5. ANY DISTURBED REMOVAL AREA RESULTING IN AN OPEN EXCAVATION DEEPER THAN 1 FOOT SHALL BE PROTECTED BY A 6 FOOT HIGH CHAIN LINK CONSTRUCTION FENCE UNTIL BROUGHT TO GRADE.
6. ANY EXISTING VEGETATION THAT IS NOT MARKED FOR REMOVAL ON THIS PLAN SHALL REMAIN.
7. NOTIFY THE CITY ENGINEER AND PROJECT ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN OFF-SITE STREET IMPROVEMENT PROJECTS AND PROPOSED PROJECT ELEVATIONS AND / OR UTILITY LOCATIONS.

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REVISED PLANS PER VILLAGE COMMENTS DATED 10-12-17.
1. ADDED CONNECTION LOCATIONS FOR WATER SERVICE.

CHELSEA SENIOR COMMONS	
ROUTE 47 SUGAR GROVE, IL	
DEMOLITION PLAN	DRAWN BY: SKB CHECKED BY: CML
SCALE: 1" = 30'	DATE: 09/11/2017
JOB NUMBER: 17-229	SHEET: C 7.0
<p>Consulting Civil Engineering Land Planning & Surveying 1050 State Route 126 Plainfield, Illinois 60544 voice 815-254-0505 fax 815-436-5158</p>	# DATE DESCRIPTION
	1 10/12/17 PER VILLAGE COMMENTS
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LEGEND

- ELEVATION TABLE**
- | | |
|--------|--------------|
| xxx.xx | TOP OF CURB |
| xxx.xx | EDGE OF PWMT |
- MATCH = MATCH EXISTING ELEVATION
- EXISTING SPOT GRADES = xxx.x
- PROPOSED SPOT GRADES = xxx.x
- ➔ OVERLAND FLOW ARROW
- ~ EXISTING DRAINAGE ARROW
- ➔ PROPOSED DRAINAGE ARROW
- PROPOSED CONTOUR
- - - EXISTING CONTOUR
- - - HIGH WATER LIMIT 721.50

CHELSEA SENIOR COMMONS

ROUTE 47
SUGAR GROVE, IL

GRADING PLAN

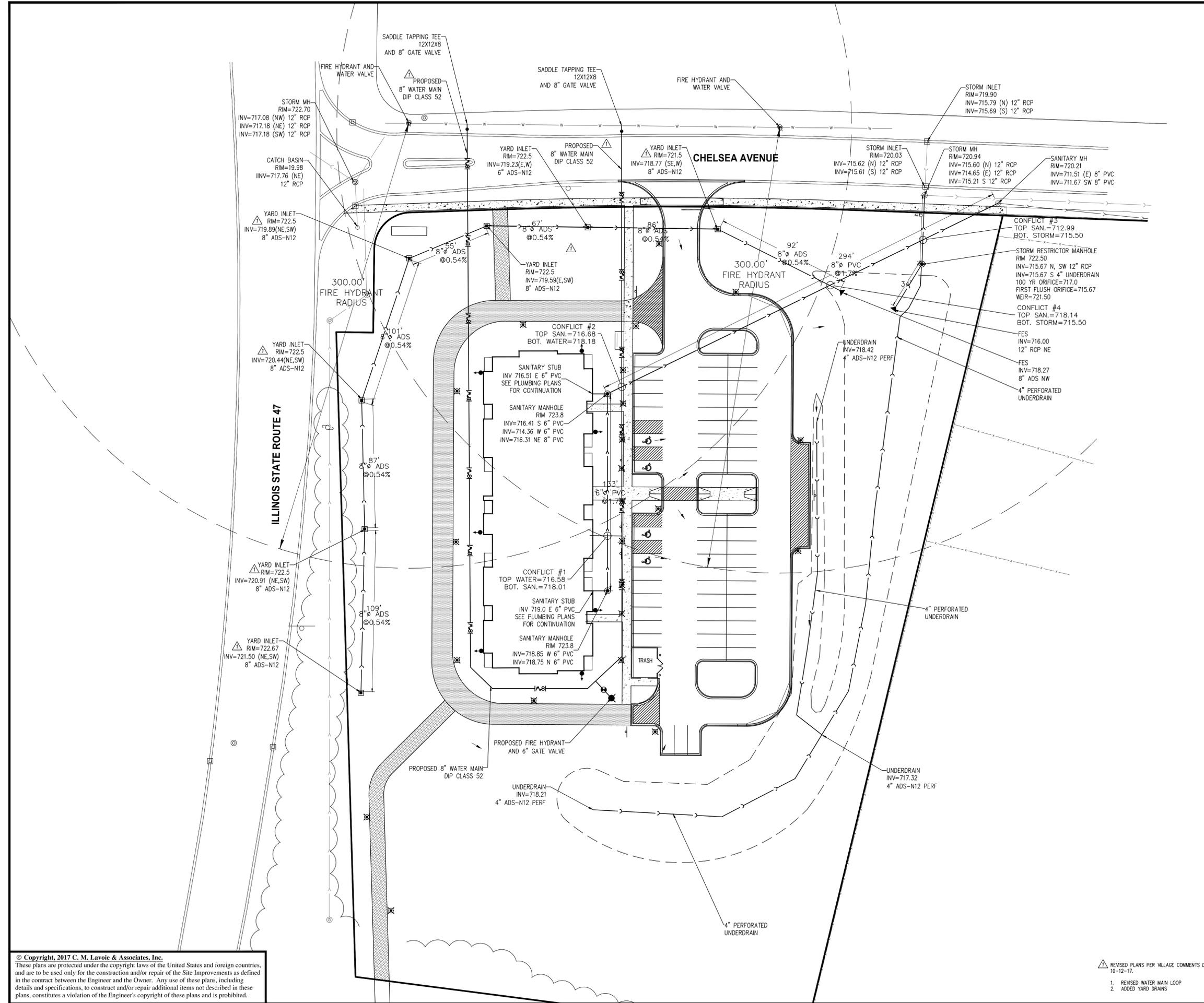
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LEGEND

- ⊙ PROPOSED STORM MANHOLE
- ⊕ EXISTING STORM MANHOLE
- ⊠ PROPOSED INLET
- ⊡ EXISTING INLET
- ⊙ PROPOSED FIRE HYDRANT
- ⊕ EXISTING FIRE HYDRANT
- ⊙ PROPOSED VALVE AND VAULT
- ⊕ EXISTING VALVE AND VAULT
- ⊙ PROPOSED CATCH BASIN
- ⊕ EXISTING CATCH BASIN
- ⊙ PROPOSED SANITARY MANHOLE
- ⊕ EXISTING SANITARY MANHOLE
- ⊙ PROPOSED VALVE BOX
- ⊕ EXISTING VALVE BOX
- ⊙ PROPOSED DOWNSPOUT
- ⊕ EXISTING DOWNSPOUT
- 8" — PROPOSED WATERMAIN
- 8" — EXISTING WATERMAIN
- 8" — PROPOSED SANITARY SEWER
- 8" — EXISTING SANITARY SEWER
- 8" — PROPOSED STORM SEWER
- 8" — EXISTING STORM SEWER
- H.W.L. — HIGH WATER LEVEL
- 6.32' — EXISTING CONTOUR
- 6.32' — PROPOSED CONTOUR
- ➔ EMERGENCY FLOOD ROUTE
- ⊙ PROPOSED LIGHT

NOTES :

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ELECTRIC LINES, TELEPHONE LINES, ETC., AS SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATIONS SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND THEIR FACILITIES SHALL BE LOCATED PRIOR TO ANY WORK.
 2. EXISTING GRADES AND IMPROVEMENTS ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY WITH THE PLAN SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
 3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL EXPOSE ANY UTILITIES OR OTHER OBSTRUCTIONS TO BE CROSSED BY THE PROPOSED SEWERS, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS WITH THE PROPOSED SEWER GRADES.
 4. RESTRAIN JOINTS ACCORDINGLY, WHERE PROPOSED WATERMAIN IS TAPPING INTO EXISTING MAIN TO THE SATISFACTION OF THE VILLAGE ENGINEER.
 5. ALL HYDRANTS MUST BE WATEROUS WB-67 (PAINTED YELLOW). ALL VALVES MUST BE RESILIENT WEDGE TYPE AND BE LOCATED IN VALVE VAULT.
 6. ALL STORM SEWER FRAMES/GATES ARE TO BE LABELED "NO DUMPING - DRAINS TO CREEK" (OR SIMILAR).
 7. THE SEWER CONTRACTOR SHALL SCHEDULE WITH THE FOX METROPOLITAN SANITARY SEWER DISTRICT A MEETING PRIOR TO THE START OF CONSTRUCTION.
 8. THE CONSTRUCTED SANITARY SEWERS MUST BE TELEVISED UNDER SIMULATED FLOW CONDITIONS. DISTRICT PERSONNEL MUST BE PRESENT DURING TELEVISION. NO SAGS GREATER THAN 25% OF THE PIPE DIAMETER WILL BE ACCEPTED. ALL UNACCEPTABLE SAGS MUST BE REPLACED IN A MANNER ACCEPTABLE TO THE DISTRICT.
 9. ANY UTILITY CONFLICTS THAT INVOLVE WATER AND SEWER SERVICES WITHIN 18" VERTICAL SEPARATION, SEWERS SHALL BE CONSTRUCTED USING WATER QUALITY PIPING AND TESTED PER VILLAGE REQUIREMENT NOTES.
 10. CONTRACTOR SHALL RELOCATE ANY AND ALL UTILITIES AS NECESSARY. COORDINATE WITH OWNER OF UTILITY.
 11. ALL EXISTING STRUCTURES LOCATED WITHIN THE CONSTRUCTION ZONE SHALL BE ADJUSTED TO ACCOMMODATE PROPOSED WORK AND SHALL BE INCIDENTAL TO UTILITY COSTS.
 12. CONTRACTOR TO MAINTAIN 10 FOOT HORIZONTAL SEPARATION BETWEEN SANITARY AND WATER LINES.
 13. CONTRACTOR TO MAINTAIN 10 FOOT HORIZONTAL SEPARATION BETWEEN BUILDING FOUNDATION AND UTILITY LINES, EXCLUSIVE OF BUILDING SERVICES.
 14. CONTRACTOR TO MAINTAIN MINIMUM 18 INCH VERTICAL SEPARATION BETWEEN WATER SERVICE AND SEWER SERVICES, UNLESS SPECIAL PROVISIONS ARE MADE FOR CROSSING CONFLICTS.
 15. ANY EXISTING DRAINTILES ENCOUNTERED DURING CONSTRUCTION SHALL BE REROUTED AS NECESSARY TO MAINTAIN FLOWS. CONTRACTOR DETAIL EXISTING LOCATIONS AND PROPOSED ROUTING FOR APPROVAL BY DESIGN ENGINEER/VILLAGE ENGINEER.
- SANITARY NOTES:**
 ALL SANITARY SEWER PIPING SHALL BE PVC SDR 21 ASTM D-2241; JOINT MATERIALS SHALL BE RUBBER GASKET MEETING ASTM D-3139
 ALL SANITARY MANHOLES SHALL BE TESTED IN ACCORDANCE WITH ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS, SECTION 370.330.e.2

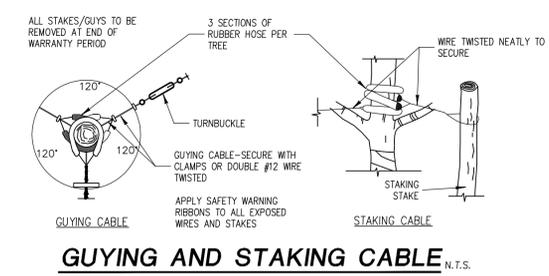
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REVISD PLANS PER VILLAGE COMMENTS DATED 10-12-17.
 1. REVISED WATER MAIN LOOP
 2. ADDED YARD DRAINS

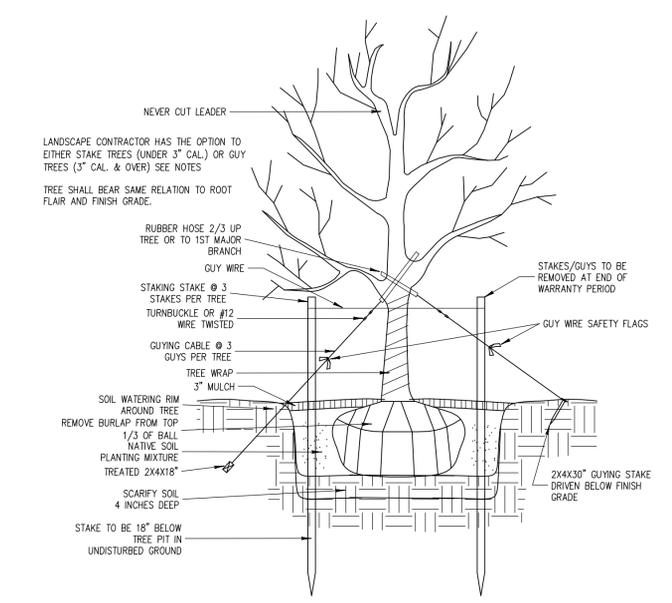
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ROUTE 47 SUGAR GROVE, IL																												
UTILITY PLAN	DRAWN BY: SKB CHECKED BY: CML																											
SCALE: 1" = 30'	DATE: 09/11/2017																											
JOB NUMBER: 17-229	SHEET: C 10.0																											
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LANDSCAPE NOTES:

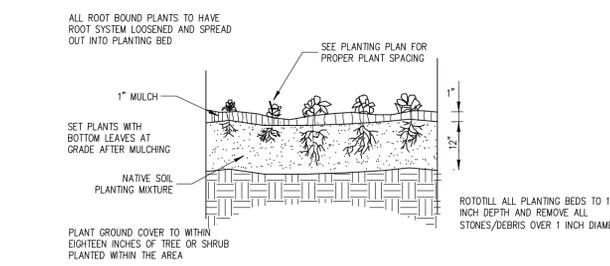
- FOR MASTER LEGEND SEE COVER SHEET C.O.O.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ELECTRIC LINES, TELEPHONE LINES, ETC., AS SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATIONS SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND THEIR FACILITIES SHALL BE LOCATED PRIOR TO ANY WORK.
- NORTH ARROW AND BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, NAD83 (2007), EAST ZONE.
- ALL ALTERATIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR DESIGN ENGINEER.
- CONTRACTOR MUST VERIFY ALL QUANTITIES AND OBTAIN ALL PROPER PERMITS AND LICENSES FROM THE PROPER AUTHORITIES.
- ALL LANDSCAPE IMPROVEMENTS SHALL MEET SUGAR GROVE MUNICIPALITY REQUIREMENTS AND GUIDELINES.
- ALL MATERIAL MUST MEET INDUSTRY STANDARDS AND THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REFUSE ANY POOR MATERIAL OR WORKMANSHIP.
- LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR UNSEEN SITE CONDITIONS.
- ALL PLANTING SHALL BE SPACED EQUAL DISTANT, BACKFILLED AND THE SOIL COMPACTED, WATERED, FERTILIZED, AND PRUNED.
- TREES MAY BE STAKED AND GUYED, WILL HAVE A WATERING SAUCER AT BASE, AND WILL HAVE NURSERY TAGS WITH THE SPECIES NAME FOR FUTURE IDENTIFICATION.
- ALL BEDS TO BE BERMED 12" TO 24" ABOVE GRADE AND MEET DRAINAGE REQUIREMENTS.
- LAWN AND BED AREAS SHALL BE ROTOTILLED, RAKED FREE OF CLUMPS AND DEBRIS.
- SOD SHALL BE ROLLED AFTER LAYING, WATERED IMMEDIATELY WHEN A LARGE ENOUGH AREA AVAILABLE, AND STAKED ON SLOPES GREATER THAN 4:1.
- ALL BEDS SHALL BE SPADE EDGED, HAVE WEED PRE-EMERGENTS APPLIED AT THE RECOMMENDED RATE, AND SHREDDED HARDWOOD MULCH SPREAD AT MINIMUM OF 3" DEEP.
- ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
- ALL PARKWAYS AND PARKING LOT ISLANDS SHALL HAVE LAWN AS A GROUND COVER, UNLESS OTHERWISE NOTED.
- ALL EXISTING TREES OF HIGH QUALITY, LOCATED OUTSIDE OF THE CONSTRUCTION ZONE, SHALL BE SAVED.
- SIZE AND GRADING STANDARDS OF PLANT MATERIAL SHALL CONFORM TO THE LATEST EDITION OF ANSI Z60.1, AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
- ALL PLANT MATERIALS SHALL BE NORTHERN ILLINOIS NURSERY GROWN STOCK AND SHALL BE FREE OF ANY DEFORMITIES, DISEASES OR INSECT DAMAGE. ANY MATERIALS WITH DAMAGED OR CROOKED DISFIGURED LEADERS, BARK ABRASION, SUNSCALD, INSECT DAMAGE, ETC. ARE NOT ACCEPTABLE AND WILL BE REJECTED.
- TREES NOT EXHIBITING A CENTRAL (OR SINGLE) LEADER WILL BE REJECTED UNLESS CALLED OUT IN THE PLANT LIST AS MULTISTEM.
- ALL TREES MUST BE UPRIGHT AND STRAIGHT AND FIRMLY ROOTED INTO THE ROOTBALL AT THE END OF THE WARRANTY PERIOD. IF STAKING IS USED, CONTRACTOR TO REMOVE AND DISPOSE OF STAKING MATERIALS.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO ANY UTILITIES CAUSED BY HIS WORK ON THE SITE TO THE UTILITY OWNER SATISFACTION.
- TREE PROTECTION SHALL MEET THE SUGAR GROVE TREE PROTECTION STANDARDS.
- ALL LANDSCAPE AND LAWN AREAS TO BE FERTILIZED WITH 13-0-13 STARTER FERTILIZER AND ROTOTILLED INTO SOIL BEFORE PLANTING OPERATIONS.
- BIOSWALES ARE TO BE SHAPED TO ALLOW FLOW TO FLARED END SECTION OR POND AREAS. SUBMIT PLANTING LIST TO LANDSCAPE ARCHITECT OR DESIGN ENGINEER



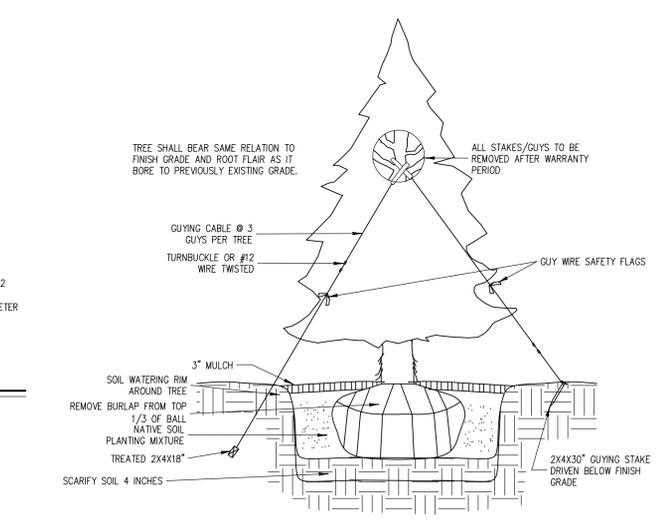
GUYING AND STAKING CABLE N.T.S.



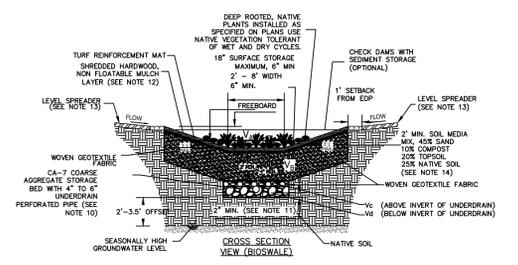
DECIDUOUS TREE PLANTING N.T.S.



GROUNDCOVER-PERENNIAL PLANTING N.T.S.

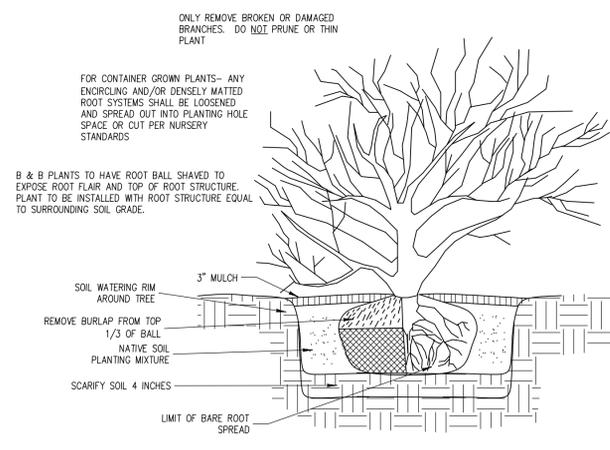


EVERGREEN TREE PLANTING N.T.S.



- NOTES:
- BIOSWALE/RAIN GARDEN TO BE PLACED A MINIMUM OF 10 FEET FROM FOUNDATIONS UNLESS WATERPROOFED, 20 FEET FROM SANITARY SEWERS, 20 FEET FROM ROADWAY GRAVEL SHOULDER AND 100 FEET FROM POTABLE WATER WELLS OR SEPTIC TANKS.
 - AVOID INSTALLATION ON SLOPES GREATER THAN 15 TO 1 AND ABOVE COMPACTED FILL. ENSURE CONSTRUCTION ACTIVITIES AVOID BIOSWALE/RAINGARDEN LOCATIONS.
 - GROWING MEDIUM SHALL BE 4 INCHES DEEPER THAN LARGEST PLANTED ROOT BALL.
 - WOVEN GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF IJM MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1, CLASS 1, WITH AN APPARENT OPENING SIZE OF 0.50 MM.
 - STONE STORAGE OPTIONS ARE CA-7, OR APPROVED ALTERNATE. NO RECYCLED MATERIALS ALLOWED.
 - CHECK DAMS MUST BE INSTALLED FOR VELOCITIES GREATER THAN 1 FT/S FOR THE 2-YEAR, 24-HOUR STORM EVENT.
 - CENTER OF CHECK DAM MUST BE A MINIMUM OF 6 INCHES LOWER THAN OUTSIDE EDGES TO PASS HIGH FLOWS.
 - BOTTOM OF UPSTREAM CHECK DAM SHALL BE SAME ELEVATION AS TOP OF DOWNSTREAM CHECK DAM.
 - MINIMUM DISTANCE OF 2 FEET (3.5 FEET IN COMBINED SEWER AREAS) BETWEEN BOTTOM OF BMP AND SEASONALLY HIGH GROUNDWATER LEVEL.
 - UNDERDRAINS ARE REQUIRED IN TYPICAL CLAYEY SOILS WHERE INFILTRATION RATES ARE LESS THAN 0.5 INCH/HOUR OR DRAINAGE SLOPES LESS THAN 1%. MAXIMUM OF 1 UNDERDRAIN PER 30 FEET. A SOIL REPORT DOCUMENTING NATIVE INFILTRATION RATE MAY BE REQUIRED BY MUNICIPALITY TO FOREGO UNDERDRAINS.
 - MINIMUM UNDERDRAIN BEDDING OF TWO INCHES, MAXIMUM OF 12 INCHES.
 - MULCH LAYER SHALL BE HARDWOOD MULCH OR OTHER NON-FLOATING GROUND COVER.
 - LEVEL SPREADERS TO DISSIPATE WATER FLOW FROM IMPERVIOUS SURFACES INTO BIOSWALES/RAIN GARDENS.
 - PROVIDE UNDERDRAIN/GEOTEXTILE FABRIC/AMENDED SOIL MIXTURE IF BIOSWALES/RAIN GARDEN CONSTRUCTED ON CLAYEY SOILS.

BIOSWALE-RAIN GARDEN DETAIL N.T.S.



SHRUB PLANTING N.T.S.

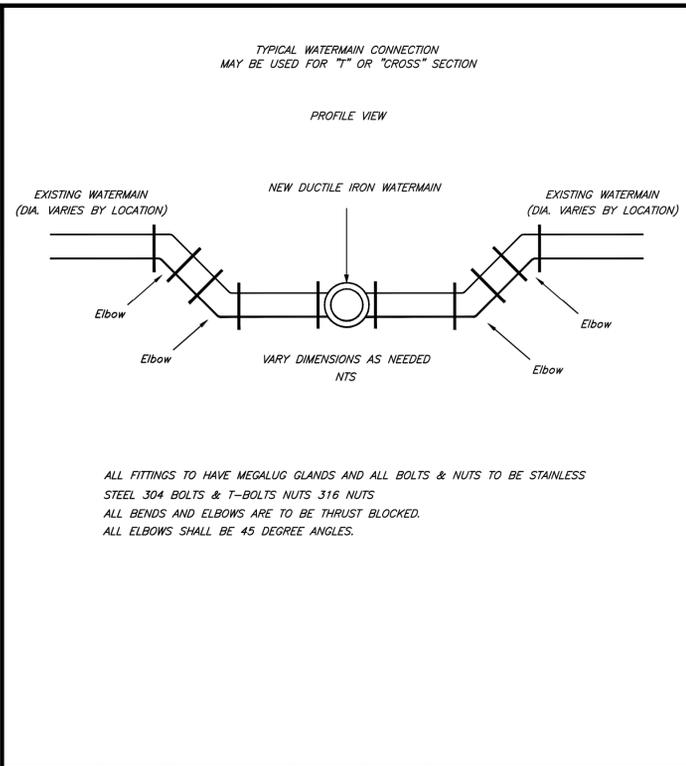
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REVISED PLANS PER CLIENT COMMENTS DATED 10-12-17.
1. NO REVISIONS THIS SHEET.

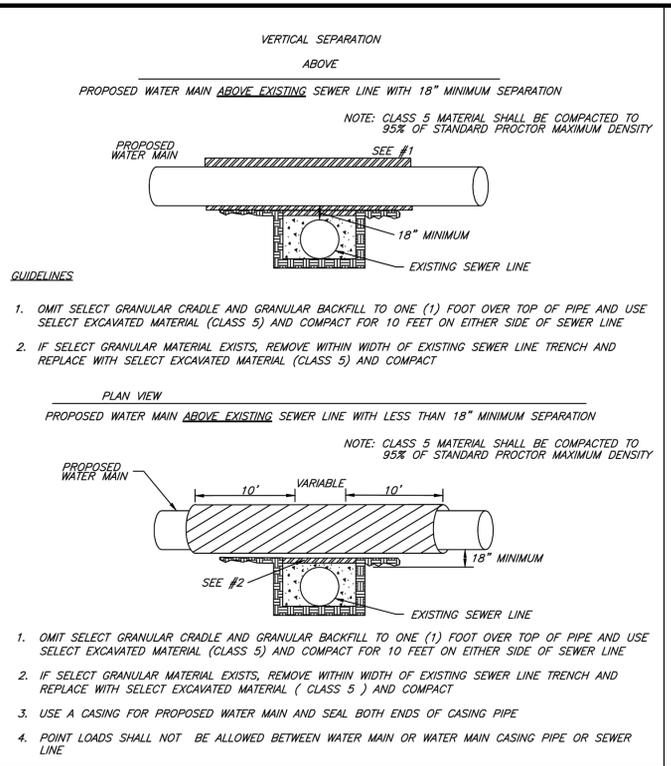
CHELSEA SENIOR COMMONS			
ROUTE 47 SUGAR GROVE, IL			
LANDSCAPE DETAILS		DRAWN BY: SKB	CHECKED BY: CML
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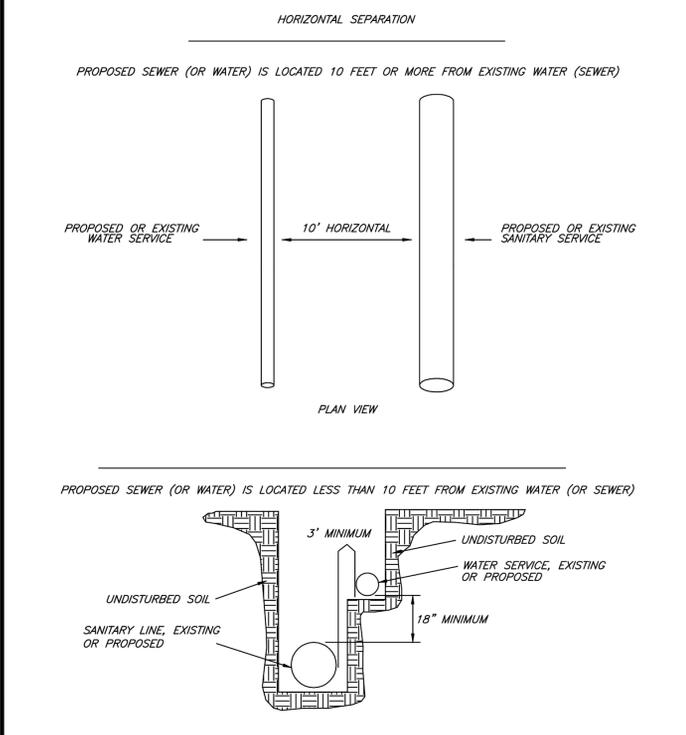
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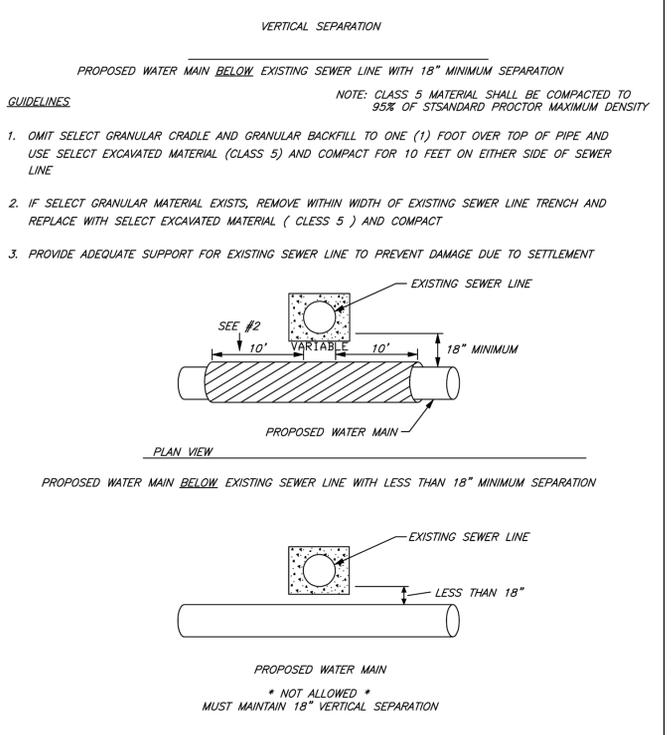
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	02/20/07		W.J.M.	M.D.M.	WATERMAIN CONNECTION
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
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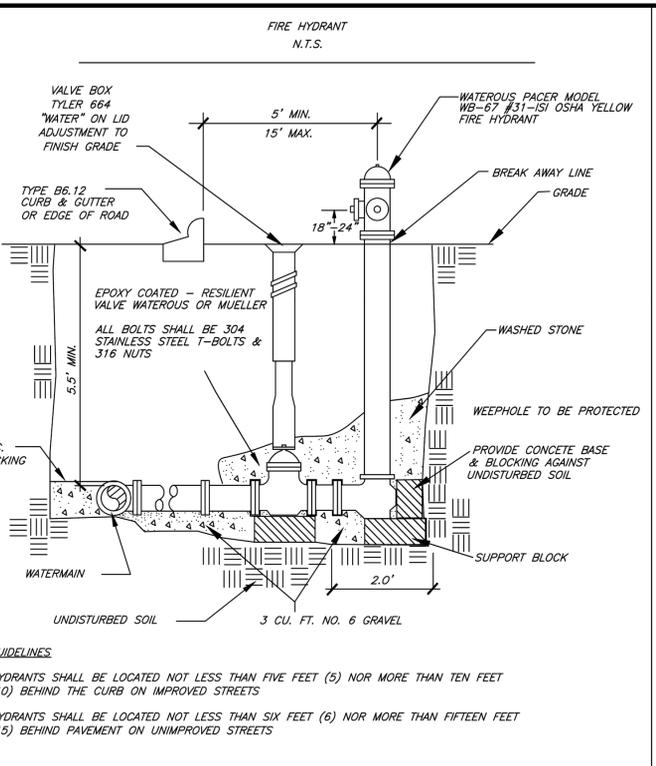
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	02/20/07		W.J.M.	M.D.M.	WATER AND SEWER SEPARATION REQUIREMENTS VERTICAL SEPARATION ABOVE
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
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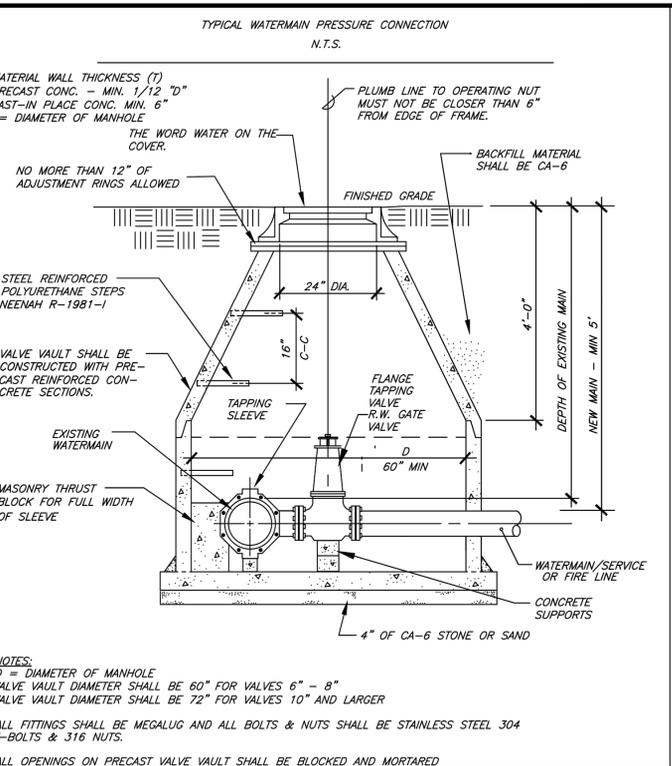
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	02/20/07		W.J.M.	M.D.M.	WATER AND SEWER SEPARATION REQUIREMENTS HORIZONTAL SEPARATION
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	
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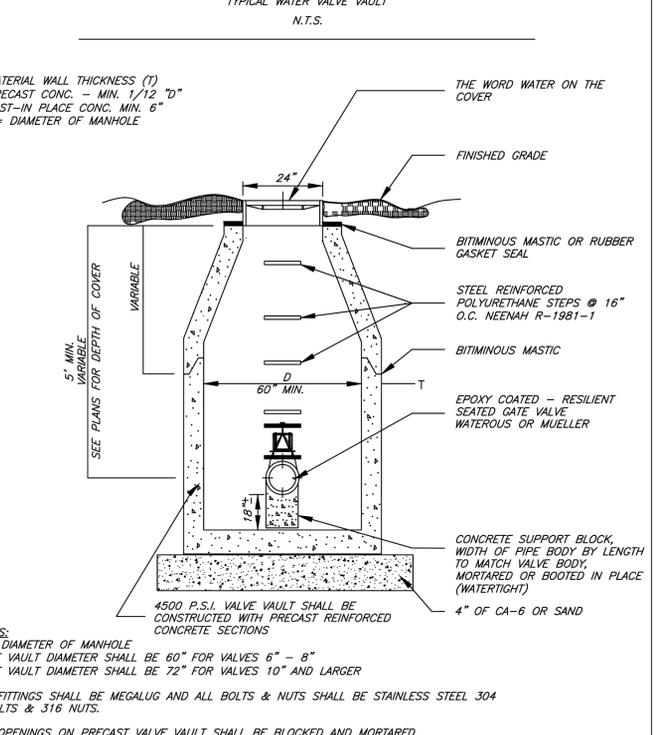
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	02/20/07		W.J.M.	M.D.M.	WATER AND SEWER SEPARATION REQUIREMENTS VERTICAL SEPARATION BELOW
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	
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	02/20/07		W.J.M.	M.D.M.	TYPICAL HYDRANT INSTALLATION
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	
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N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		W.J.M.	M.D.M.	WATERMAIN PRESSURE CONNECTION
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	
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N.T.S.	DATE	REVISIONS	DRAWN BY	APPVD BY	STANDARD DETAIL
	02/20/07		W.J.M.	M.D.M.	WATER VALVE VAULT
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		S.A.V.	A.J.S.	
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CHELSEA SENIOR COMMONS

ROUTE 47
SUGAR GROVE, IL

WATER DETAILS

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Frame and Grate Selection Procedure

Barrier Curb

- If storm sewer is less than 12" in diameter, use IDOT Type 1 OL (Neehan R-1713 or EJ 1050Z1)
- If storm sewer is equal to or greater than 12" in diameter:
 - use EJW 7045Z 7050T1 7045M1 Set for CBs and inlets
 - use Neehan R-3250-1 or EJW 7550Z with Hood for junctions
- If storm sewer is in special drainage area, use custom frame/grate as approved

Mountable or Depressed Curb

- use IDOT Type 1 OL (Neehan R-1713 or EJ 1050Z1) **grate must meet ADA requirements in sidewalk or pedestrian areas)

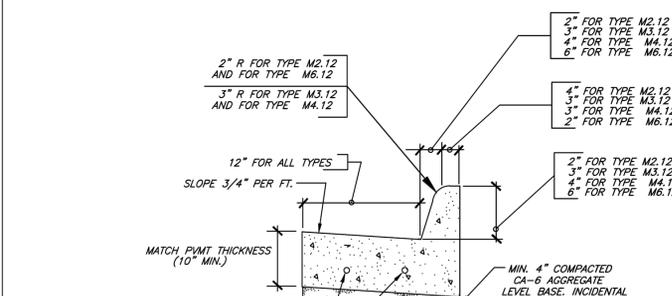
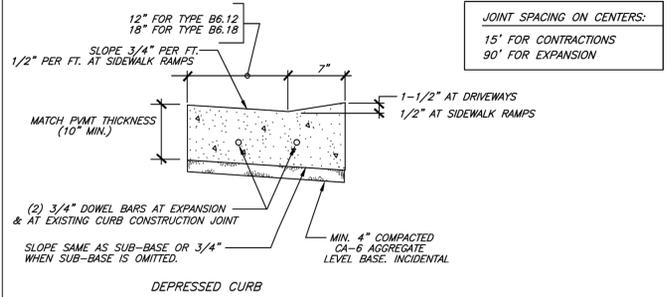
Ditches and Non-paved Sags

- Use IDOT Type 8 (Neehan R-4340-B, Neehan R-4342, OR EJ 6527N1)

Junctions (Storm Manholes, Water Valve Vaults)

- Use IDOT Type 1 CL (Neehan R-1713 or EJ 1050Z1)

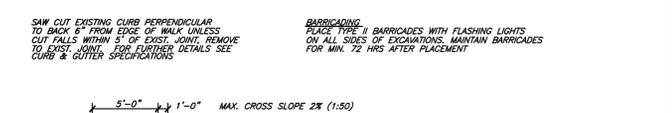
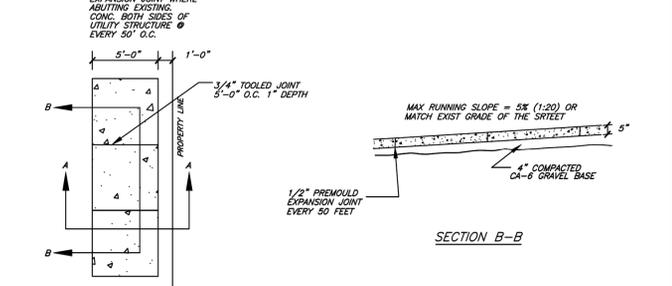
Note: All closed lids shall be stamped "WATER" or "STORM," and all storm inlets shall be stamped "DUMP NO WASTE, DRAINS TO FRESH WATER" or similar as approved.



*NOTE: MUST MEET ALL REQUIREMENTS OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND IDOT STANDARD DETAIL 606001-06, EXCEPT AS MODIFIED HEREIN

ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE "STANDARD SPECIFICATION FOR ROAD & BRIDGE CONSTRUCTION" AS ADOPTED BY THE ILLINOIS DEPT. OF TRANSPORTATION UNLESS OTHERWISE SPECIFIED HEREIN

ABSOLUTELY NO CHLORIDE ACCELERATION OR WIRE MESH WILL BE PERMITTED

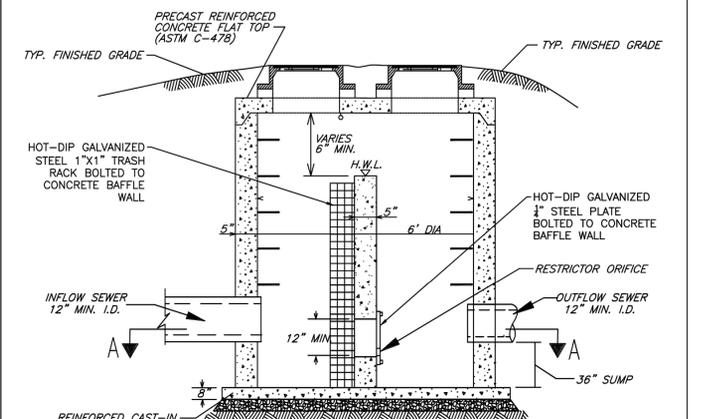


SAW CUT EXISTING CURB PERPENDICULAR TO BACK 6" FROM EDGE OF WALK UNLESS CUT FALLS WITHIN 5' OF EXIST. JOINT, REMOVE TO EXIST JOINT. FOR FURTHER DETAILS SEE CURB & GUTTER SPECIFICATIONS

N.T.S.	DATE	REVISIONS	DRAWN BY	APPRD BY	STANDARD DETAIL
	02/23/07		J.P.T.	M.D.M.	FRAMES AND GRATES
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. GEN-01					
I:\LIBRARY\DETAILS\GENERAL\GEN-01					

N.T.S.	DATE	REVISIONS	DRAWN BY	APPRD BY	STANDARD DETAIL
	02/20/07		J.M.L.	M.D.M.	CURB AND GUTTER
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. PVT-10					
I:\LIBRARY\DETAILS\PAVEMENT\PVT-10					

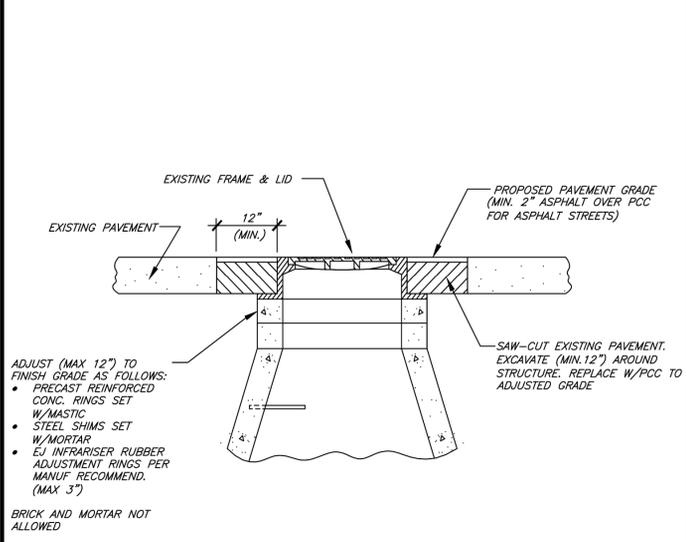
N.T.S.	DATE	REVISIONS	DRAWN BY	APPRD BY	STANDARD DETAIL
	10/10/11		S.A.V.	A.J.S.	PUBLIC SIDEWALK
	05/01/12		T.J.T.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. SWK-01					
I:\LIBRARY\DETAILS\SIDEWALK\SWK-01					



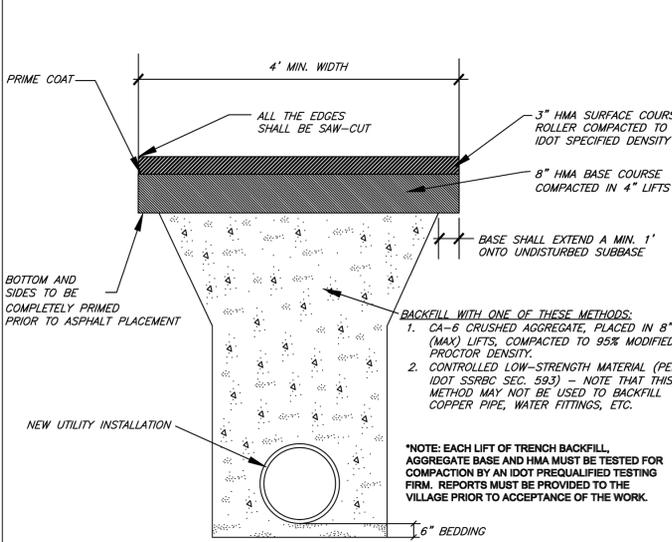
OUTLET CONTROL STRUCTURE RESTRICTOR SIZES			
BASIN #	OCs #	RESTRICTOR SIZE & ELEVATION	100 YR HWL
1	1		

NOTES:
 1. STRUCTURAL DESIGN DETAILS TO BE PROVIDED BY MANUFACTURER'S LICENSED STRUCTURAL ENGINEER, INCLUDING PROVISIONS FOR TRUCK LOADING AND HYDRAULIC FORCES.
 2. CONTRACTOR MUST VERIFY ELEVATIONS AND DIMENSIONS. ANY DISCREPANCY FROM PLAN ELEV. AND DIMENSIONS SHALL BE CORRECTED AT CONTRACTOR COST.
 3. THIS STRUCTURE IS NOT TO BE LOCATED WITHIN AN OVERFLOW WEIR.
 4. SEE IDOT STANDARD 602701 FOR DETAILS OF MANHOLE STEPS.
 5. FASTENERS FOR TRASH RACK AND ORIFICE PLATE SHALL BE GALV. OR STAINLESS STEEL.

N.T.S.	DATE	REVISIONS	DRAWN BY	APPRD BY	STANDARD DETAIL
	06/09/04		R.W.B.	M.D.M.	OUTLET CONTROL STRUCTURE - 6'
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. STM-03					
I:\LIBRARY\DETAILS\STORM\STM-03					



ADJUST (MAX 12") TO FINISH GRADE AS FOLLOWS:
 • PRECAST REINFORCED CONC. RINGS SET W/MASTIC
 • STEEL SHIMS SET W/MORTAR
 • EJ INFRASER RUBBER ADJUSTMENT RINGS PER MANUF. RECOMMEND. (MAX 3")
 BRICK AND MORTAR NOT ALLOWED



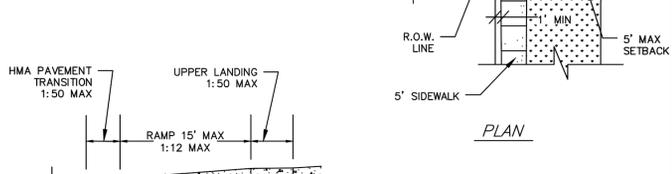
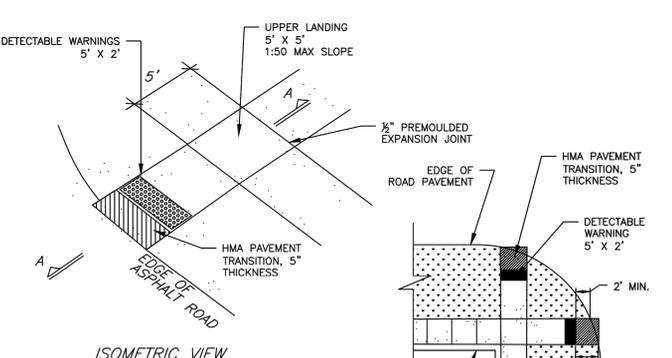
*NOTE: EACH LIFT OF TRENCH BACKFILL, AGGREGATE BASE AND HMA MUST BE TESTED FOR COMPACTION BY AN IDOT PREQUALIFIED TESTING FIRM. REPORTS MUST BE PROVIDED TO THE VILLAGE PRIOR TO ACCEPTANCE OF THE WORK.

*NOTE: ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN THE STATE OF ILLINOIS AND THE "STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION" AS ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

* ALL ROADWAYS SHALL REMAIN OPEN TO TRAFFIC WITH AT LEAST 1/2 THE WIDTH.
 * IF MORE THAN 30% OF THE ROADWAY WIDTH IS AFFECTED, THE ENTIRE WIDTH OF THE ROADWAY MUST BE RESURFACED.
 * ALL STREET OPENINGS MUST BE FULLY RESTORED WITHIN TEN DAYS.

N.T.S.	DATE	REVISIONS	DRAWN BY	APPRD BY	STANDARD DETAIL
	06/01/04		R.W.B.	M.D.M.	UTILITY STRUCTURE ADJUSTMENT
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. GEN-02					
I:\LIBRARY\DETAILS\GENERAL\GEN-02					

N.T.S.	DATE	REVISIONS	DRAWN BY	APPRD BY	STANDARD DETAIL
	02/20/07		J.M.L.	M.D.M.	STREET OPENING BITUMINOUS
	03/25/11		S.A.V.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. PVT-17					
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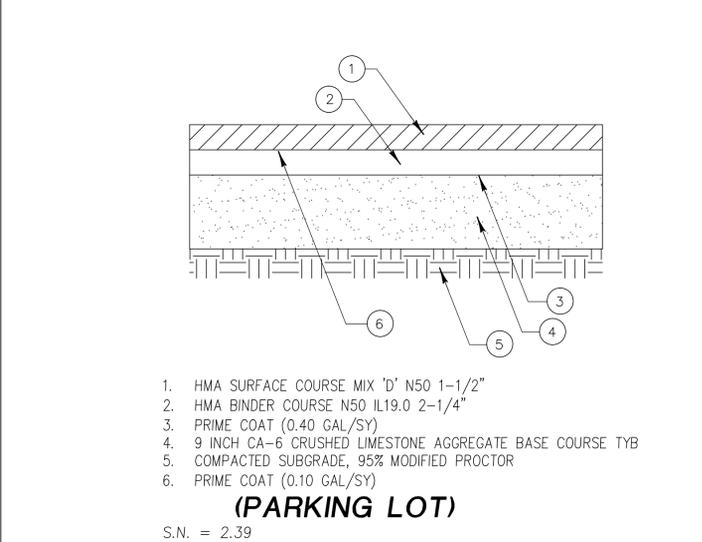


RAMPS SHALL MEET REQUIREMENTS OF IDOT STD. DETAILS FOR CURB RAMPS.

INSERT ADA DETECTABLE WARNING SURFACE TILE AS SPECIFIED. DYED CONCRETE NOT ALLOWED.

THE TYPE OF DETECTABLE WARNING TILE SHALL BE ARMOR-TILE, CAST IN PLACE SYSTEM, OR ACCESS TILE TACTILE SYSTEMS OR APPROVED EQUAL.

N.T.S.	DATE	REVISIONS	DRAWN BY	APPRD BY	STANDARD DETAIL
	04/12/07		D.J.G.		A.D.A RAMPS ON NON-CURBED STREETS
	03/25/11		S.A.V.	A.J.S.	
	03/26/12		T.J.T.	A.J.S.	
	03/01/15		A.J.S.	A.J.S.	
DRAWING NO. SWK-03					
I:\LIBRARY\DETAILS\SIDEWALK\SWK-03					



(PARKING LOT)
 S.N. = 2.39

NOTES:
 1. SEE SOILS REPORT FOR INFORMATION REGARDING PAVEMENT SECTION. IF SOILS REPORT IS MORE STRINGENT, USE THAT SECTION.
 2. ALL COMPACTION SHALL BE 95% MAXIMUM DRY DENSITY, AS DETERMINED BY MODIFIED PROCTOR TEST, ASTM D1557.

TYPICAL PAVEMENT SECTION

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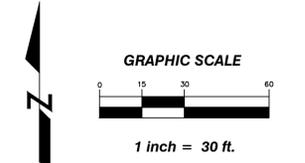
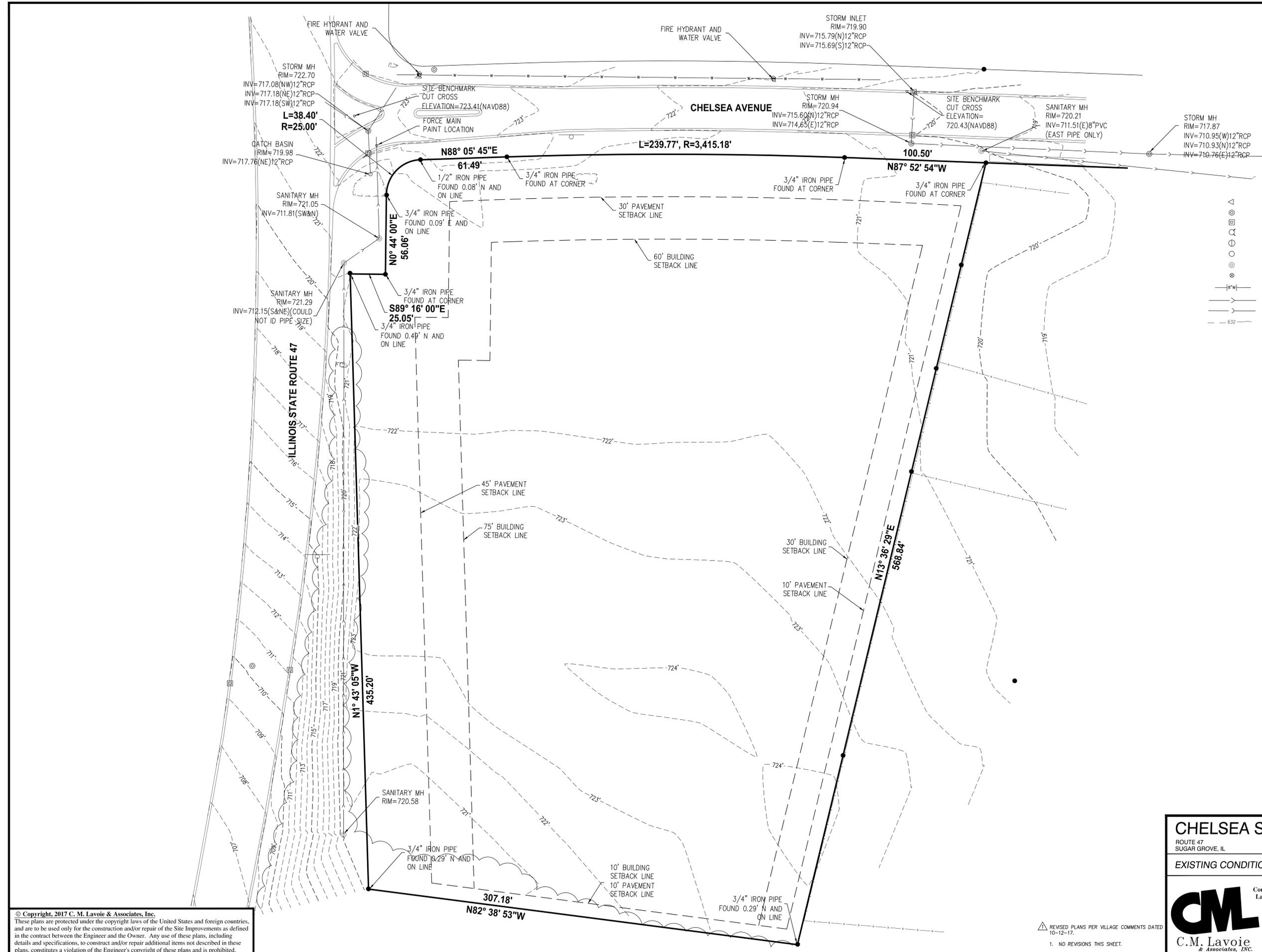
CHELSEA SENIOR COMMONS
 ROUTE 47
 SUGAR GROVE, IL

DETAILS

DRAWN BY: SKB
 CHECKED BY: CML
 SCALE: NTS
 DATE: 09/11/2017
 JOB NUMBER: 17-229
 SHEET: C 5.0

C.M. Lavoie & Associates, INC.
 Consulting Civil Engineering
 Land Planning & Surveying
 1050 State Route 126
 Plainfield, Illinois 60544
 voice 815-254-0505
 fax 815-436-5158

#	DATE	DESCRIPTION
1	10/12/17	PER VILLAGE COMMENTS
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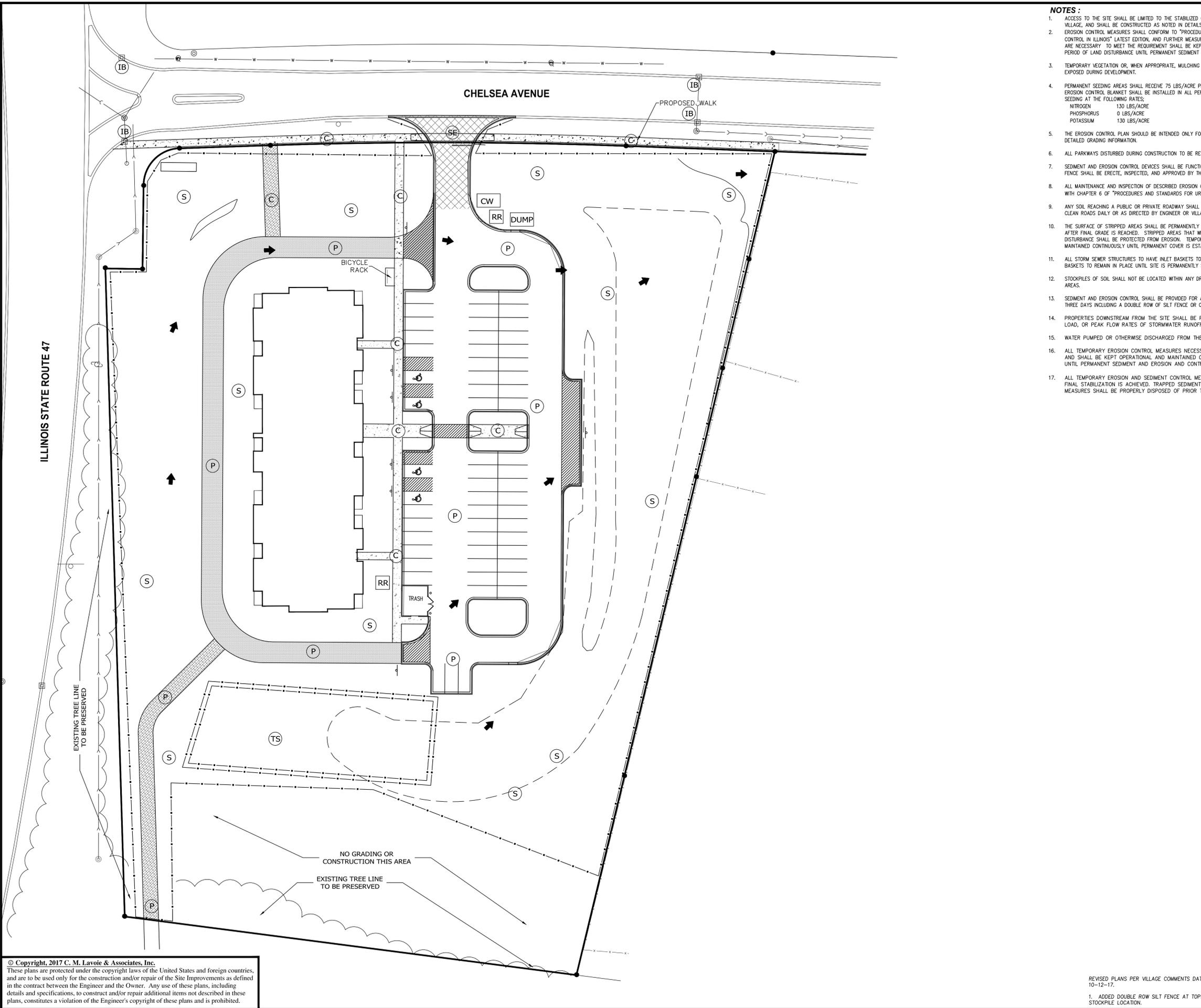


- △ EXISTING FLARED END SECTION
- ⊕ EXISTING STORM MANHOLE
- ⊖ EXISTING INLET
- ⊙ EXISTING FIRE HYDRANT
- ⊗ EXISTING VALVE AND VAULT
- ⊘ EXISTING CATCH BASIN
- ⊙ EXISTING SANITARY MANHOLE
- ⊗ EXISTING VALVE BOX
- |—|—| EXISTING WATERMAIN
- >—>—> EXISTING SANITARY SEWER
- >—>—> EXISTING STORM SEWER
- - - - - EXISTING CONTOUR

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△ REVISED PLANS PER VILLAGE COMMENTS DATED 10-12-17.
 1. NO REVISIONS THIS SHEET.

CHELSEA SENIOR COMMONS			
ROUTE 47 SUGAR GROVE, IL			
DRAWN BY: SKB	CHECKED BY: CML		
SCALE: 1" = 30'	DATE: 09/11/2017		
JOB NUMBER: 17-229	SHEET: C 6.0		
<p>Consulting Civil Engineering Land Planning & Surveying 1050 State Route 126 Plainfield, Illinois 60544 voice 815-254-0505 fax 815-436-5158</p>	#	DATE	DESCRIPTION
	1	10/12/17	PER VILLAGE COMMENTS
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	7		



NOTES :

- ACCESS TO THE SITE SHALL BE LIMITED TO THE STABILIZED CONSTRUCTION ENTRANCE, UNLESS PRIOR APPROVAL FROM THE VILLAGE, AND SHALL BE CONSTRUCTED AS NOTED IN DETAILS.
- EROSION CONTROL MEASURES SHALL CONFORM TO "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL IN ILLINOIS" LATEST EDITION, AND FURTHER MEASURES AS DEEMED NECESSARY. ALL EROSION CONTROL MEASURES WHICH ARE NECESSARY TO MEET THE REQUIREMENT SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
- TEMPORARY VEGETATION OR, WHEN APPROPRIATE, MULCHING OR OTHER NONVARIABLE COVER SHALL BE USED TO PROTECT AREAS EXPOSED DURING DEVELOPMENT.
- PERMANENT SEEDING AREAS SHALL RECEIVE 75 LBS/ACRE PERENNIAL RYEGRASS AND 75 LBS/ACRE KENTUCKY BLUEGRASS. EROSION CONTROL BLANKET SHALL BE INSTALLED IN ALL PERMANENT SEEDING AREAS. FERTILIZER SHOULD BE APPLIED PRIOR TO SEEDING AT THE FOLLOWING RATES:
 NITROGEN 130 LBS/ACRE
 PHOSPHORUS 0 LBS/ACRE
 POTASSIUM 130 LBS/ACRE
- THE EROSION CONTROL PLAN SHOULD BE INTENDED ONLY FOR EROSION CONTROL. PLEASE REFER TO THE GRADING PLANS FOR DETAILED GRADING INFORMATION.
- ALL PARKWAYS DISTURBED DURING CONSTRUCTION TO BE RESTORED TO CITY OF FULTON SPECIFICATIONS.
- SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE. ALL SILT FENCE SHALL BE ERECTED, INSPECTED, AND APPROVED BY THE DESIGN ENGINEER OR CITY OF FULTON PRIOR TO CONSTRUCTION.
- ALL MAINTENANCE AND INSPECTION OF DESCRIBED EROSION CONTROL MEASURES SHOWN ON THIS PLAN SHALL BE IN ACCORDANCE WITH CHAPTER 6 OF "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL IN ILLINOIS."
- ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY. CONTRACTOR TO CLEAN ROADS DAILY OR AS DIRECTED BY ENGINEER OR VILLAGE.
- THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN FIFTEEN DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN FIFTEEN DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.
- ALL STORM SEWER STRUCTURES TO HAVE INLET BASKETS TO COLLECT ANY SILT WHICH MAY FLOW INTO STRUCTURES. INLET BASKETS TO REMAIN IN PLACE UNTIL SITE IS PERMANENTLY STABILIZED.
- STOCKPILES OF SOIL SHALL NOT BE LOCATED WITHIN ANY DRAINAGEWAYS, FLOODPLAINS, WETLANDS, BUFFERS OR DEPRESSION AREAS.
- SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED FOR ANY SOIL STOCKPILE IF IT IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS INCLUDING A DOUBLE ROW OF SILT FENCE OR COIR ROLL.
- PROPERTIES DOWNSTREAM FROM THE SITE SHALL BE PROTECTED FROM EROSION IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION.
- WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
- ALL TEMPORARY EROSION CONTROL MEASURES NECESSARY TO MEET THE REQUIREMENTS OF THE CITY OF FULTON AND SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.

LEGEND

- (C) CONCRETE
- (S) SEED/EROSION BLANKET
- (P) PAVEMENT
- (IB) INLET BASKET
- (SE) STABILIZED ENTRANCE
- (TS) TOPSOIL STOCKPILE
- PROPOSED SILT FENCE
- ⊗ EXISTING TREE
- ⊗ EXISTING TREE TO BE PROTECTED
- ➔ EMERGENCY OVERLAND FLOW ROUTE
- CW CONCRETE WASHOUT DUMPSTER
- DUMP CONSTRUCTION DUMPSTER
- RR PORTABLE RESTROOMS

ILLINOIS STATE ROUTE 47

CHELSEA AVENUE

PROPOSED WALK

BICYCLE RACK

CW

RR

DUMP

RR

TRASH

NO GRADING OR CONSTRUCTION THIS AREA

EXISTING TREE LINE TO BE PRESERVED

GRAPHIC SCALE



1 inch = 30 ft.

CHELSEA SENIOR COMMONS

ROUTE 47
SUGAR GROVE, IL

EROSION CONTROL PLAN

DRAWN BY: SKB	CHECKED BY: CML
SCALE: 1" = 30'	DATE: 09/11/2017
JOB NUMBER: 17-229	SHEET: C 13.0

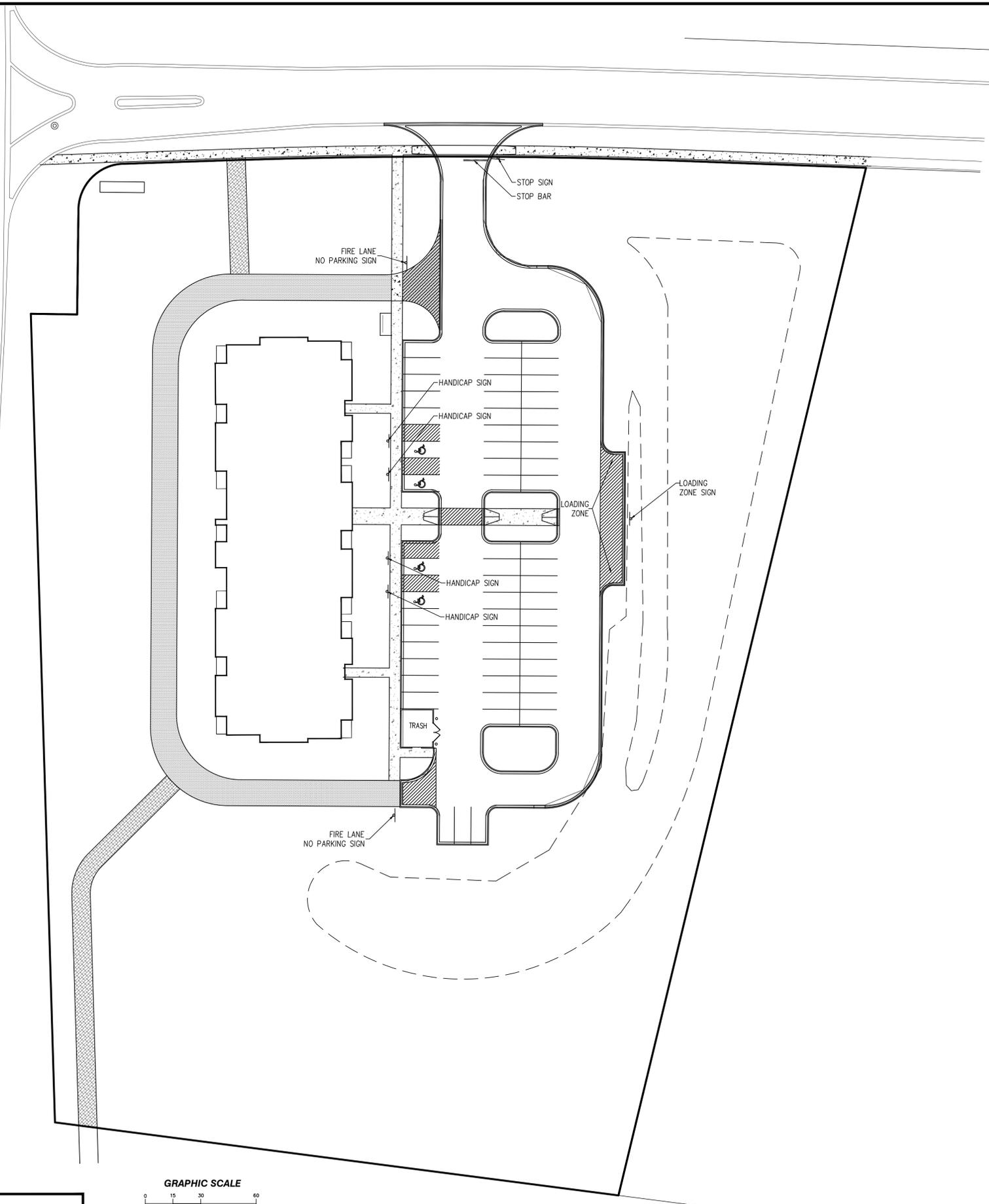
CM
C.M. Lavoie & Associates, INC.

Consulting Civil Engineering
Land Planning & Surveying
1050 State Route 126
Plainfield, Illinois 60544
voice 815-254-0505
fax 815-436-5158

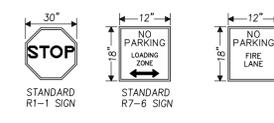
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REVISED PLANS PER VILLAGE COMMENTS DATED 10-12-17.
1. ADDED DOUBLE ROW SILT FENCE AT TOPSOIL STOCKPILE LOCATION.



Available Parking Spaces	
Handicap	54
Total	58
Loading Zone	1



REGULATORY SIGNS

1 3/4" PYRAMIDAL RAIN CAP

SIGN SIZES:
 STOP SIGNS: 30" x 30"
 YIELD SIGNS: 30" x 30"
 SPEED LIMIT SIGNS (R2-1): 24" x 30"
 WARNING SIGNS: 30" x 30"
 NO PARKING SIGNS: 12" x 18"

1 3/4" TELESPAR POLE (GALVANIZED)

ALL HARDWARE SHALL BE BREAKAWAY OR TAMPER RESISTANT.
 ALL SIGNS SHALL BE 3M COMPANY, OR APPROVED EQUAL, USING HIGH INTENSITY REFLECTIVE PAPER.
 SIGNS MAY BE MOUNTED TO STREET LIGHTS WITH A STANDARD BRACKET AND DOUBLE BUCKLE STRAPS SUBJECT TO VILLAGE APPROVAL.
 ALL SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
 THE VILLAGE OF SUGAR GROVE MUST APPROVE ALL SIGN DIMENSIONS, MOUNTING LOCATIONS & HARDWARE APPLICATIONS BEFORE INSTALLATION.
 IF ANOTHER SIGN IS MOUNTED BACK-TO-BACK WITH A STOP SIGN, THEN THE SHAPE OF THE STOP SIGN SHALL NOT BE OBTUSCURED.

2" TELESPAR BASE

Village of Sugar Grove 10 Municipal Drive Sugar Grove, Illinois 60554 Phone: (630) 466-4507	SCALE N.T.S. DATE 8/14/07	FOLDER SG-SI	DRAWING NUMBER 01	DRAWN BY CLN	REVISOR
--	------------------------------------	-----------------	----------------------	-----------------	---------

1 3/4" PYRAMIDAL RAIN CAP

FLAT ALUMINUM BLADE .08" MINIMUM

STREET NAME SIGN (D3-1)
 SIGN SIZES:
 9" x 30" COLLECTOR/MAJOR
 6" x 24" MINOR/LOCAL
 (LONGER SIGNS MAY BE NECESSARY SUBJECT TO REVIEW BY VILLAGE).

1 3/4" TELESPAR POLE (GALVANIZED)

POST LOCATIONS:
 LOCAL ROAD INTERSECTIONS SHALL HAVE 1 SIGN AT THE NORTHEAST CORNER, COLLECTOR AND MAJOR STREETS SHALL HAVE TWO SIGN ASSEMBLIES; ONE AT THE NORTHEAST CORNER AND ONE AT THE SOUTHWEST CORNER.

SIGNS SHALL BE FLAT BLADE ALUMINUM BLANKS, SINGLE SIDED & SHEETED WITH HIGH INTENSITY WHITE, WITH AN EC GREEN SHEETING REVERSE OVERLAY AND A 1/2" WHITE BORDER.

MINOR & LOCAL STREETS:
 LETTERING SHALL BE BLOCK STYLE WITH 4" UPPERCASE LETTERING FOR NAMES OF STREETS SHALL BE COMPOSED OF A COMBINATION OF LOWER-CASE LETTERS WITH INITIAL UPPER CASE LETTERS. 3" UPPERCASE FOR SUFFIX & PREFIX.

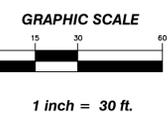
COLLECTOR, CROSS STREETS & MAJOR STREETS:
 LETTERING SHALL BE BLOCK STYLE WITH 6" UPPERCASE LETTERING FOR NAMES OF STREETS SHALL BE COMPOSED OF A COMBINATION OF LOWER-CASE LETTERS WITH INITIAL UPPER CASE LETTERS. 4" UPPERCASE FOR SUFFIX & PREFIX.

SIGNS MAY BE MOUNTED TO STREET LIGHTS WITH A STANDARD BRACKET AND DOUBLE BUCKLE STRAPS SUBJECT TO VILLAGE APPROVAL. IF POST MOUNTED, STREET NAME SIGNS ARE USED (PENDING APPROVAL FROM THE VILLAGE), THEN SINGLE SIDED SIGNS SEPARATED BY 2-PART RIVETS MOUNTED DIRECTLY TO THE POST WITH TAMPER RESISTANT HARDWARE SHALL BE USED.

ALTERNATE STREET NAME SIGN LOCATION

TYPICAL SIGN LOCATION

Village of Sugar Grove 10 Municipal Drive Sugar Grove, Illinois 60554 Phone: (630) 466-4507	SCALE N.T.S. DATE XX-XX-XX	FOLDER SG-SI	DRAWING NUMBER 02	DRAWN BY WCP	REVISOR XX-XX-XX
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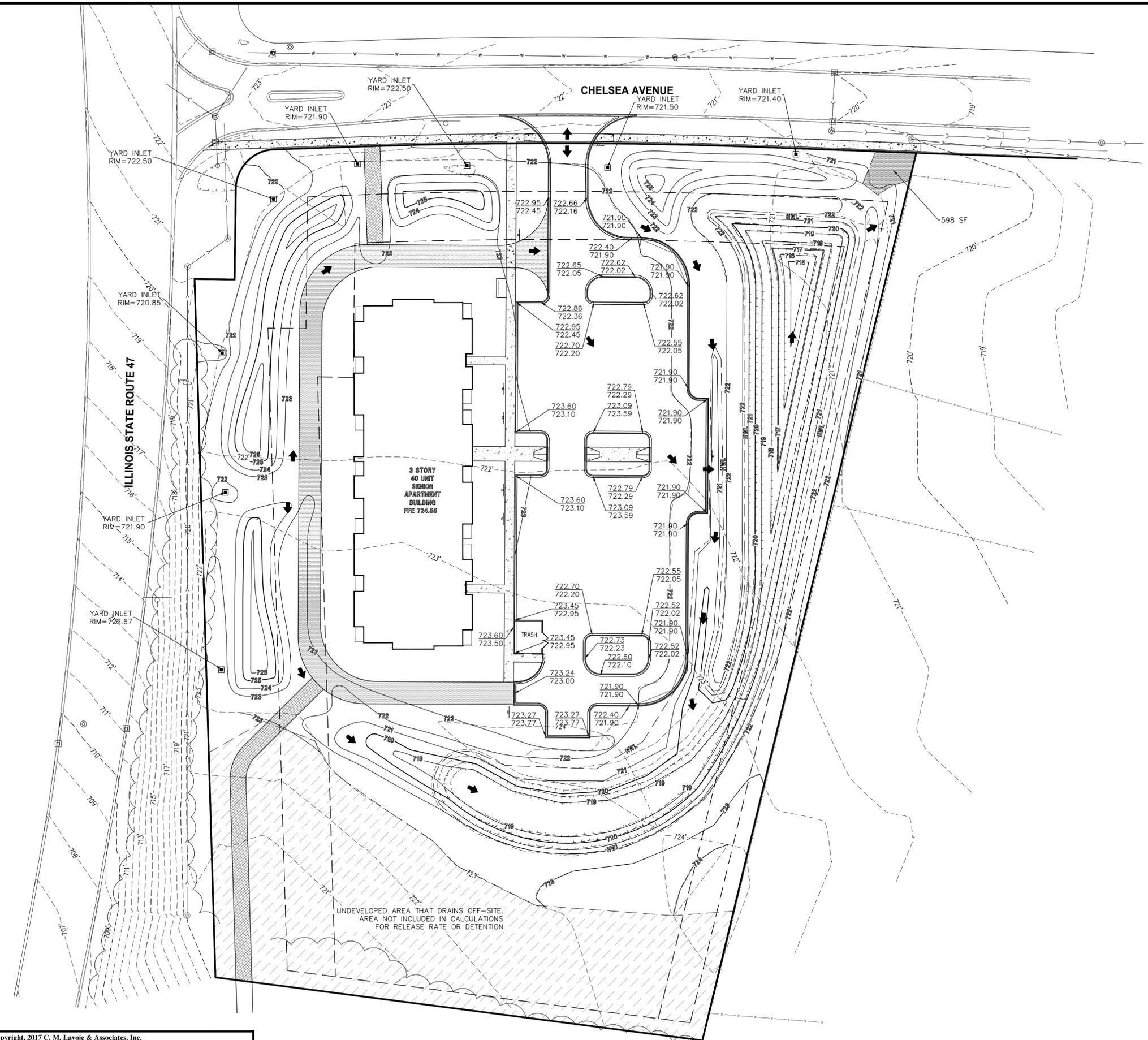
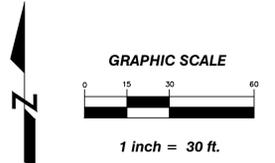
CHELSEA SENIOR COMMONS
 ROUTE 47
 SUGAR GROVE, IL

SIGNAGE AND STRIPING PLAN

DRAWN BY: SKB CHECKED BY: CML
 SCALE: 1" = 30' DATE: 09/11/2017
 JOB NUMBER: 17-229 SHEET: C 14.0

#	DATE	DESCRIPTION
1	10/12/17	PER VILLAGE COMMENTS
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 fax 815-436-5158



UNDEVELOPED AREA THAT DRAINS OFF-SITE.
AREA NOT INCLUDED IN CALCULATIONS
FOR RELEASE RATE OR DETENTION

LEGEND

- ELEVATION TABLE
- | | |
|--------|--------------|
| xxx.xx | TOP OF CURB |
| xxx.xx | EDGE OF PWMT |
- MATCH = MATCH EXISTING ELEVATION
 - EXISTING SPOT GRADES = xxx.x
 - PROPOSED SPOT GRADES = xxx.x
 - ➔ OVERLAND FLOW ARROW
 - ~ EXISTING DRAINAGE ARROW
 - ➔ PROPOSED DRAINAGE ARROW
 - PROPOSED CONTOUR
 - - - EXISTING CONTOUR
 - - - HIGH WATER LIMIT 721.50

CHELSEA SENIOR COMMONS

ROUTE 47
SUGAR GROVE, IL

DRAINAGE EXHIBIT

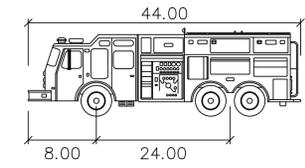
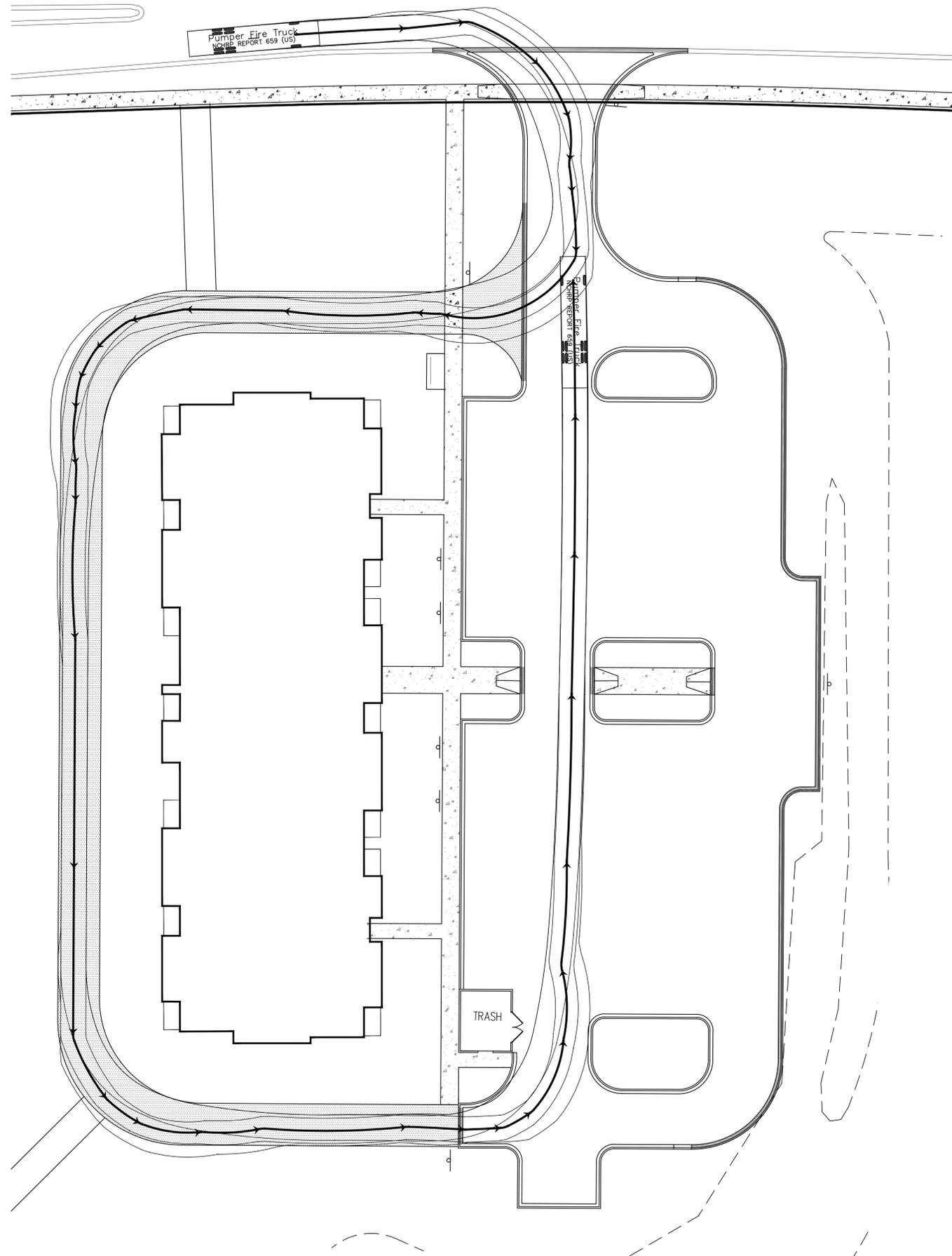
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SCALE: 1" = 30'	DATE: 09/11/2017
JOB NUMBER: 17-229	SHEET: EX. 1



Consulting Civil Engineering
Land Planning & Surveying
1050 State Route 126
Plainfield, Illinois 60544
voice 815-254-0505
fax 815-436-5158

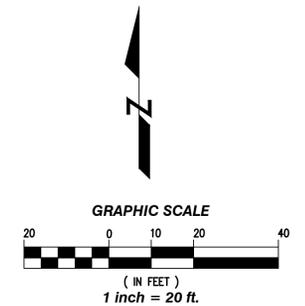
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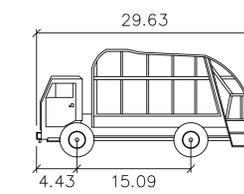
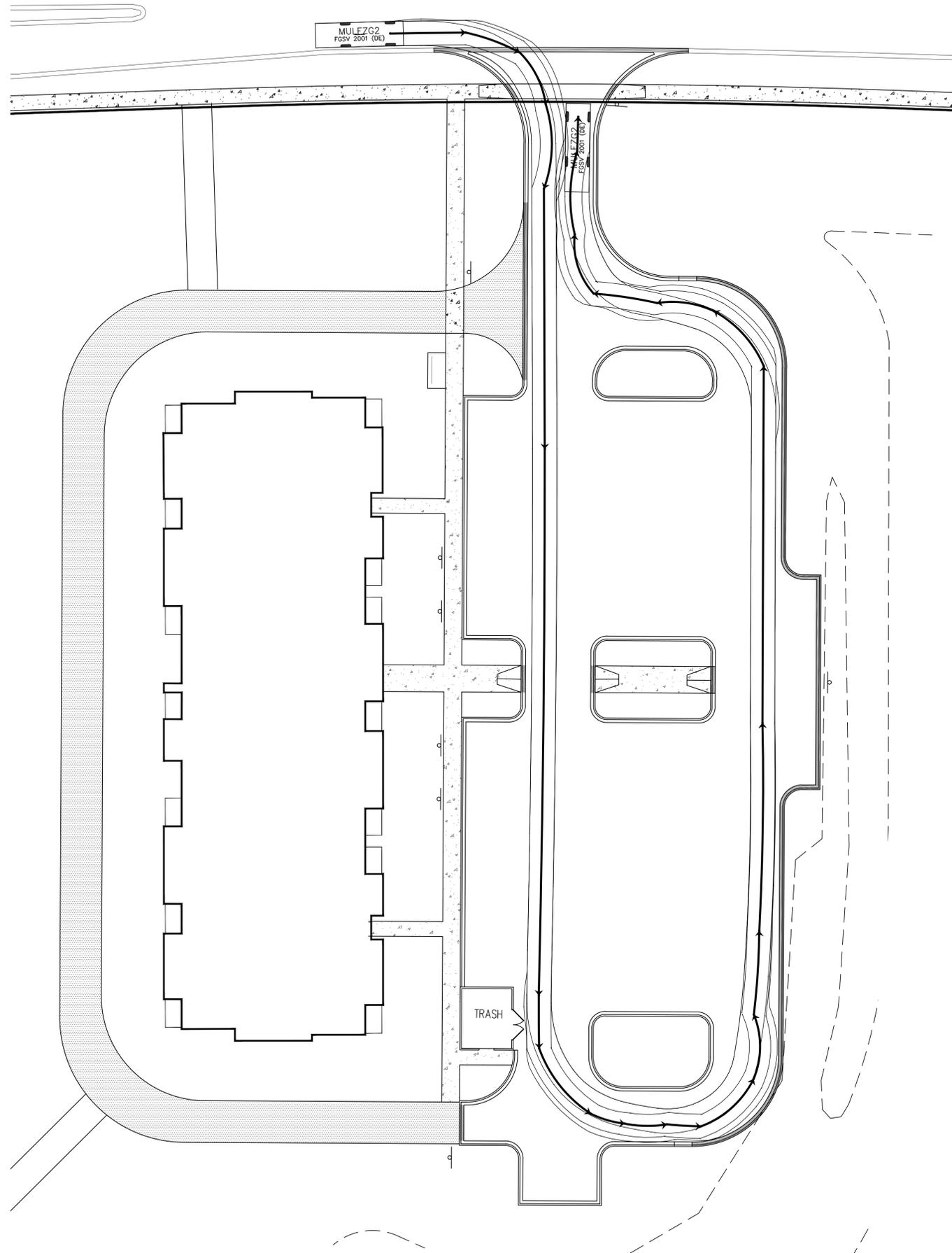
Pumper Fire Truck

	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 37.8

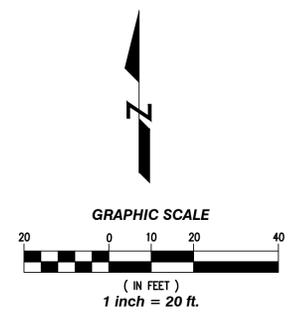


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CHELSEA SENIOR COMMONS				
ROUTE 47 SUGAR GROVE, IL				
AUTOTURN FIRE TRUCK	DRAWN BY: SKB	CHECKED BY: CML		
	SCALE: 1" = 20'	DATE: 09/11/2017		
	JOB NUMBER: 17-229	SHEET: EX. 2A		
 C.M. Lavoie <i>& Associates, INC.</i>	Consulting Civil Engineering Land Planning & Surveying 1050 State Route 126 Plainfield, Illinois 60544 voice 815-254-0505 fax 815-436-5158	#	DATE	DESCRIPTION
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GARBAGE TRUCK
feet
Width : 8.20
Track : 8.20
Lock to Lock Time : 6.0
Steering Angle : 37.3



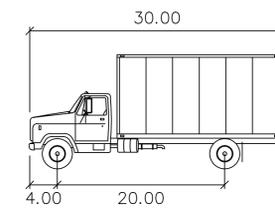
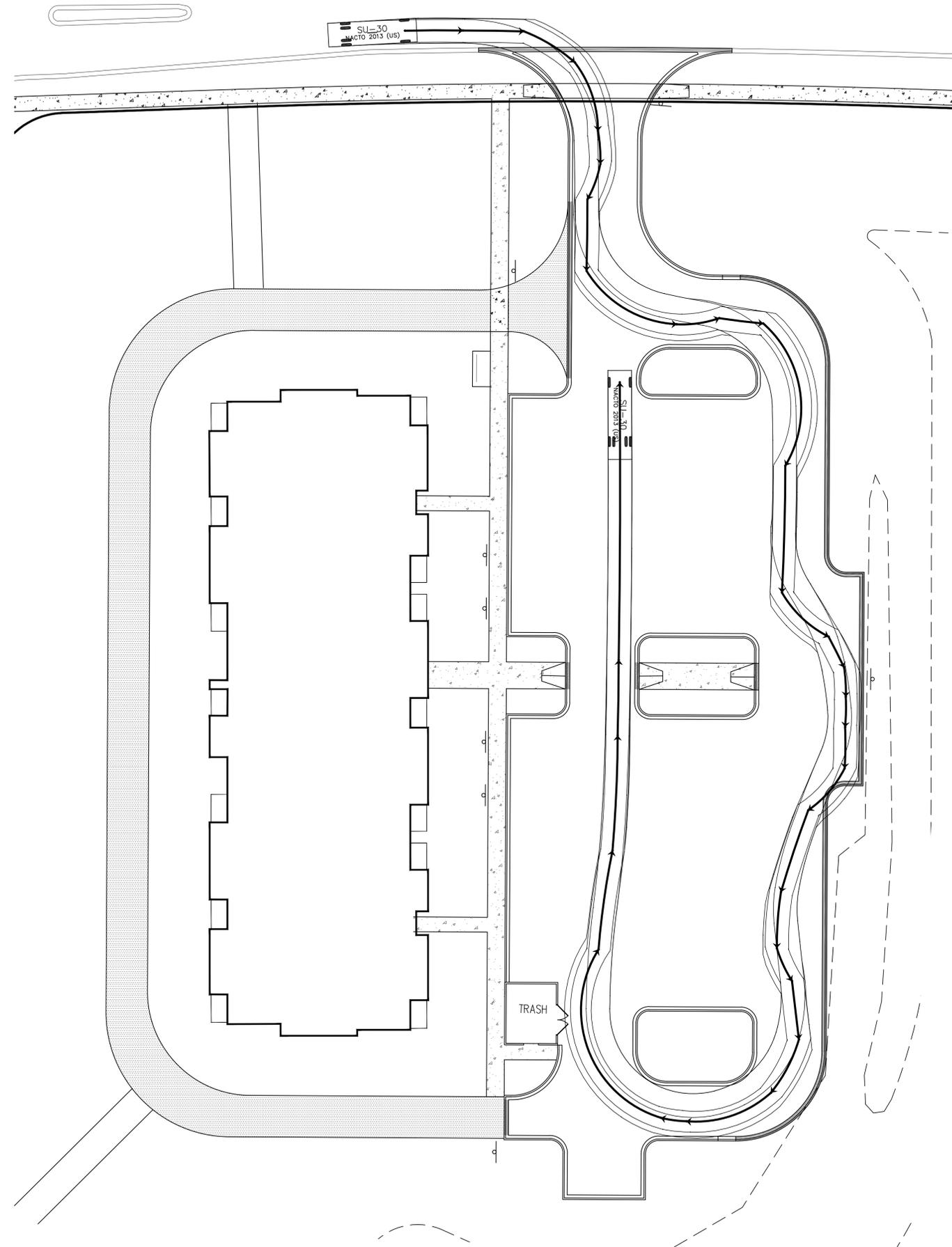
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CHELSEA SENIOR COMMONS
ROUTE 47
SUGAR GROVE, IL

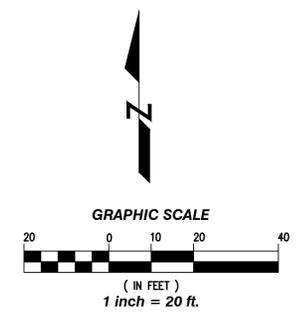
AUTOTURN GARBAGE TRUCK		DRAWN BY: SKB	CHECKED BY: CML
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JOB NUMBER: 17-229		SHEET: EX. 2B	

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#	DATE	DESCRIPTION
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SU-30 feet
 Width : 8.00
 Track : 8.00
 Lock to Lock Time : 6.0
 Steering Angle : 31.8



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ROUTE 47 SUGAR GROVE, IL		SCALE: 1" = 20'		DATE: 09/11/2017	
AUTOTURN MOVING TRUCK		JOB NUMBER: 17-229		SHEET: EX. 2C	
<p>Consulting Civil Engineering Land Planning & Surveying 1050 State Route 126 Plainfield, Illinois 60544 voice 815-254-0505 fax 815-436-5158</p>	#	DATE	DESCRIPTION		
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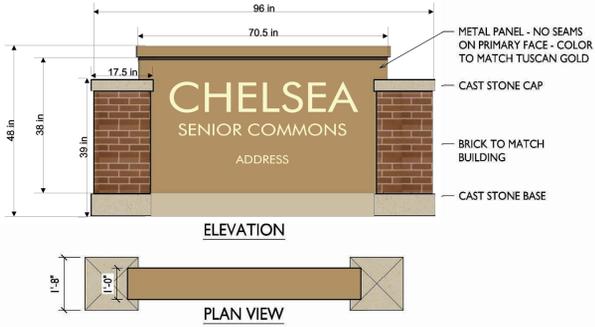


- TYPICAL MATERIALS
- ASPHALT SHINGLES
 - HORIZONTAL SIDING
 - ALUMINUM RAILING
 - VINYL WINDOWS
 - CAST STONE BAND
 - CAST STONE HEADS
 - BRICK VENEER
 - CAST STONE SILLS

1 FRONT ELEVATION
A-2.1 1/8" = 1'-0"



2 END ELEVATION
A-2.1 1/8" = 1'-0"



4 MONUMENT SIGN ELVATION
A-2.1 3/8" = 1'-0"

EXTERIOR MATERIAL SCHEDULE		
BUILDING COMPONENT	MATERIAL	COLOR
ROOF	ASPHALT SHINGLES	GAF WEATHERED WOOD
ROOF FLASHING @ ASPHALT SHINGLES	ALUMINUM	QUALITY EDGE "DESERT TAN"
FASCIA / GUTTERS / DOWNSPOUTS	ALUMINUM	QUALITY EDGE "DESERT TAN"
HORIZONTAL SIDING 4" EXPOSURE	1	COMPOSITE JAMES HARDIE TIMBER BARK
HORIZONTAL SIDING 5" EXPOSURE	2	COMPOSITE JAMES HARDIE TUSCAN GOLD
COMPOSITE TRIM	COMPOSITE	JAMES HARDIE NAVAJO BEIGE
DECK BOARDS	COMPOSITE	TREX - WOODLAND BROWN
DECK SKIRT	COMPOSITE	JAMES HARDIE NAVAJO BEIGE
FLASHING @ DECK EDGE	GALV. STEEL	MATCH DECK SKIRT / PAC CLAD "ALMOND"
FLASHING @ DECK LEDGER	GALV. STEEL	MATCH ADJACENT SIDING/MASONRY
BRICK VENEER	MASONRY	BORAL - CAGLES MILL KING
MORTAR COLOR @ BRICK VENEER	MORTAR TECHNOLOGIES	DARK MERLOT
SEALANT @ BRICK VENEER	T.B.D.	MATCH MORTAR COLOR
METAL FLASHING @ BRICK VENEER	PRE-FINISHED STEEL	MATCH BRICK COLOR
CAST SILLS & BANDS	CAST STONE	EDWARDS CAST STONE 18-018
MORTAR COLOR @ BRICK VENEER	MORTAR TECHNOLOGIES	LIMESTONE
WINDOWS	VINYL	TAN
SEALANT @ WINDOWS	T.B.D.	TO MATCH WINDOWS
RAILING	ALUMINUM	DARK BRONZE
PUBLIC ENTRY DOORS	ALUMINUM	DARK BRONZE

ISSUED

PROJECT TITLE
Sugar Grove Senior Housing



3 REAR ELEVATION
A-2.1 1/8" = 1'-0"

Chelsea Ave
Sugar Grove, IL
SHEET TITLE
Exterior Elevations

SHEET NUMBER

A-2.1

PROJECT NO. **0000**
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LEGEND

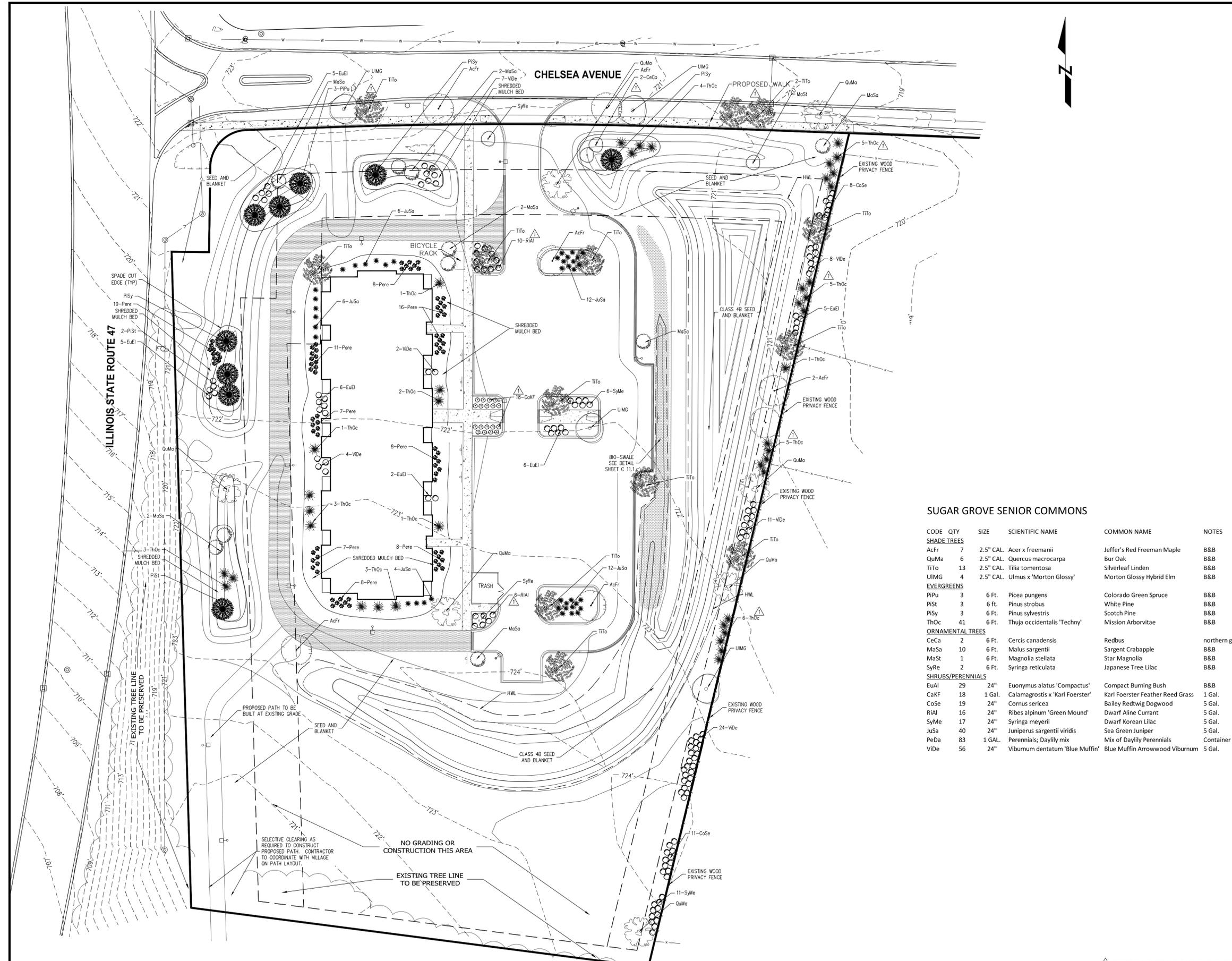
← CONSTRUCTION TRAFFIC FLOW ARROW

- CONSTRUCTION NOTE:**
1. ALL CONSTRUCTION TRAFFIC IS TO ENTER AND EXIT BY CHELSEA AVENUE ONLY. TRAFFIC IS TO UTILIZE NORTH BOUND ROUTE 47 DIRECTION ONLY. NO CONSTRUCTION TRAFFIC IS TO UTILIZE CROSS STREET.
 2. CHELSEA AVENUE IS TO BE CLEANED OF CONSTRUCTION DEBRIS, SOIL, MUD, GRAVEL, OR OTHER MATERIALS, AS NEEDED OR AS DIRECTED BY VILLAGE.
 3. TRUCKS ARE TO CLEAN WHEELS BEFORE LEAVING WORK SITE SO AS NOT TO TRACK MATERIAL ONTO VILLAGE OR STATE ROADWAYS.
 4. GENERAL CONTRACTOR TO INSTALL TRAFFIC CONTROL SIGNAGE BEFORE ANY EXCAVATION WORK OCCURS AT THE SITE.
 5. GENERAL CONTRACTOR TO NOTIFY ALL SUPPLIERS, SUB CONTRACTORS, AND TRADESMEN TO UTILIZE ROUTE 47 ONLY TO ACCESS WORK SITE.

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△ REVISED PLANS PER VILLAGE COMMENTS DATED 10-12-17.
1. THIS SHEET ADDED

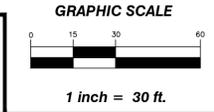
CHELSEA SENIOR COMMONS																												
ROUTE 47 SUGAR GROVE, IL																												
MAINTENANCE OF TRAFFIC PLAN	DRAWN BY: SKB SCALE: N.T.S.																											
CHECKED BY: CML DATE: 09/11/2017	JOB NUMBER: 17-229 SHEET: EXHIBIT																											
C.M. Lavoie & Associates, INC. Consulting Civil Engineering Land Planning & Surveying 1050 State Route 126 Plainfield, Illinois 60544 voice 815-254-0505 fax 815-436-5158	<table border="1"> <thead> <tr> <th>#</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10/12/17</td> <td>PER VILLAGE COMMENTS</td> </tr> <tr> <td>2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> </tr> </tbody> </table>	#	DATE	DESCRIPTION	1	10/12/17	PER VILLAGE COMMENTS	2			3			4			5			6			7			8		
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- LANDSCAPE NOTES:**
- FOR MASTER LEGEND SEE COVER SHEET.
 - THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ELECTRIC LINES, TELEPHONE LINES, ETC., AS SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATIONS SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND THEIR FACILITIES SHALL BE LOCATED PRIOR TO ANY WORK.
 - NORTH ARROW AND BEARINGS BASED ON ILLINOIS STATE PLANE COORDINATES, NAD83 (2007), EAST ZONE.
 - ALL ALTERATIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR DESIGN ENGINEER.
 - CONTRACTOR MUST VERIFY ALL QUANTITIES AND OBTAIN ALL PROPER PERMITS AND LICENSES FROM THE PROPER AUTHORITIES.
 - ALL LANDSCAPE IMPROVEMENTS SHALL MEET MUNICIPALITY REQUIREMENTS AND GUIDELINES.
 - ALL MATERIAL MUST MEET INDUSTRY STANDARDS AND THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REFUSE ANY POOR MATERIAL OR WORKMANSHIP.
 - LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR UNSEEN SITE CONDITIONS.
 - ALL PLANTING SHALL BE SPACED EQUAL DISTANT, BACKFILLED AND THE SOIL COMPACTED, WATERED, FERTILIZED, AND PRUNED.
 - TREES MAY BE STAKED AND GUYED, WILL HAVE A WATERING SAUCER AT BASE, AND WILL HAVE NURSERY TAGS WITH THE SPECIES NAME FOR FUTURE IDENTIFICATION.
 - ALL BEDS TO BE BERMED 12" TO 24" ABOVE GRADE AND MEET DRAINAGE REQUIREMENTS.
 - LAWN AND BED AREAS SHALL BE ROTOTILLED, RAKED FREE OF CLUMPS AND DEBRIS.
 - SOD SHALL BE ROLLED AFTER LAYING, WATERED IMMEDIATELY WHEN A LARGE ENOUGH AREA AVAILABLE, AND STAKED ON SLOPES GREATER THAN 4:1.
 - ALL BEDS SHALL BE SPADE EDGED, HAVE WEED PRE-EMERGENTS APPLIED AT THE RECOMMENDED RATE, AND SHREDDED HARDWOOD MULCH SPREAD AT MINIMUM OF 3" DEEP.
 - ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
 - ALL PARKWAYS AND PARKING LOT ISLANDS SHALL HAVE SOD AS A GROUND COVER, UNLESS OTHERWISE NOTED.
 - ALL EXISTING TREES OF HIGH QUALITY, LOCATED OUTSIDE OF THE CONSTRUCTION ZONE, SHALL BE SAVED.
 - SIZE AND GRADING STANDARDS OF PLANT MATERIAL SHALL CONFORM TO THE LATEST EDITION OF ANSI Z60 1, AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
 - ALL PLANT MATERIALS SHALL BE NORTHERN ILLINOIS NURSERY GROWN STOCK AND SHALL BE FREE OF ANY DEFORMITIES, DISEASES OR INSECT DAMAGE. ANY MATERIALS WITH DAMAGED OR CROOKED DISTORTED LEADERS, BARK ABRASION, SUNSCALD, INSECT DAMAGE, ETC. ARE NOT ACCEPTABLE AND WILL BE REJECTED.
 - TREES NOT EXHIBITING A CENTRAL (OR SINGLE) LEADER WILL BE REJECTED UNLESS CALLED OUT IN THE PLANT LIST AS MULTISTEM.
 - ALL TREES MUST BE UPRIGHT AND STRAIGHT AND FIRMLY ROOTED INTO THE ROOTBALL AT THE END OF THE WARRANTY PERIOD. IF STAKING IS USED, CONTRACTOR TO REMOVE AND DISPOSE OF STAKING MATERIALS.
 - THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO ANY UTILITIES CAUSED BY HIS WORK ON THE SITE TO THE UTILITY OWNER SATISFACTION.
 - TREE PROTECTION SHALL MEET THE VILLAGE OF SUGAR GROVE TREE PROTECTION STANDARDS.
 - ALL LANDSCAPE AND SOD/SEED AREAS TO BE FERTILIZED WITH 13-0-13 STARTER FERTILIZER AND ROTOTILLED INTO SOIL BEFORE PLANTING OPERATIONS.
 - LANDSCAPE CONTRACTOR TO PROVIDE WEEKLY MOWING, WEED CONTROL, FERTILIZING, WATERING, PRUNING, TRIMMING OF ALL INSTALLED LANDSCAPE AND SOD UNTIL PROVISIONAL ACCEPTANCE. PROVISIONAL ACCEPTANCE IS DETERMINED WHEN ALL LANDSCAPE, MULCHING, AND SOD INSTALLATION IS COMPLETE. LANDSCAPE CONTRACTOR IS TO INFORM GENERAL CONTRACTOR OF COMPLETION OF WORK. GENERAL CONTRACTOR TO VERIFY AND SIGN OFF THAT PROVISIONAL ACCEPTANCE IS ISSUED. ONCE GENERAL CONTRACTOR SIGNS OFF, THAT DATE IS THE FINAL ACCEPTANCE DATE. LANDSCAPE CONTRACTOR IS TO PROVIDE ALL LANDSCAPE MAINTENANCE FOR ONE COMPLETE SEASON. LANDSCAPE CONTRACTOR TO WARRANT AND GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR ONE COMPLETE GROWING SEASON BASED ON FINAL ACCEPTANCE DATE. AT THE END OF THE WARRANTY AND GUARANTEE PERIOD, ALL TREES SHALL BE PLUMB, NO SOD AREAS GREATER THAN 1 SQ. FOOT SHALL NOT BE THRIVING, NO MULCH AREAS SHALL BE BARE, WEEDS SHALL NOT BE PRESENT.
 - SEED MIX TO BE A BLEND OF 55% KENTUCKY BLUEGRASS, 20% PERENNIAL RYEGRASS, 25% TURF TYPE FESCUE. SEED SHALL BE APPLIED AT DOUBLE THE RECOMMENDED RATE. SEED AT ONE INITIAL PASS, THEN RAKE SEED INTO SOIL, THEN APPLY SECOND SEED APPLICATION AT A PERPENDICULAR PATTERN. INSTALL A STRAW BLANKET, SINGLE NET, OVER ENTIRE SEEDED AREA. ANCHOR WITH WOOD STAKES.
 - PARKWAY TREES ARE TO BE CLUSTERED TOGETHER AND LIMBED UP TO 8 FT. TO ALLOW VISIBILITY FOR TRAFFIC UTILIZING THE ENTRYWAY OF CHELSEA SENIOR COMMONS. CONTRACTOR TO COORDINATE WITH VILLAGE OFFICIALS AS TO LOCATION OF CLUSTERS.

SUGAR GROVE SENIOR COMMONS

CODE	QTY	SIZE	SCIENTIFIC NAME	COMMON NAME	NOTES
SHADE TREES					
AcFr	7	2.5" CAL.	Acer x freemanii	Jeffers' Red Freeman Maple	B&B
QuMa	6	2.5" CAL.	Quercus macrocarpa	Bur Oak	B&B
TiTo	13	2.5" CAL.	Tilia tomentosa	Silverleaf Linden	B&B
UIMG	4	2.5" CAL.	Ulmus x 'Morton Glossy'	Morton Glossy Hybrid Elm	B&B
EVERGREENS					
PIPu	3	6 Ft.	Picea pungens	Colorado Green Spruce	B&B
PISt	3	6 Ft.	Pinus strobus	White Pine	B&B
PISy	3	6 Ft.	Pinus sylvestris	Scotch Pine	B&B
ThOc	41	6 Ft.	Thuja occidentalis 'Techny'	Mission Arborvitae	B&B
ORNAMENTAL TREES					
CeCa	2	6 Ft.	Cercis canadensis	Redbud	northern grown
MaSa	10	6 Ft.	Malus sargentii	Sargent Crabapple	B&B
MaSt	1	6 Ft.	Magnolia stellata	Star Magnolia	B&B
SyRe	2	6 Ft.	Syringa reticulata	Japanese Tree Lilac	B&B
SHRUBS/PERENNIALS					
EuAl	29	24"	Euonymus alatus 'Compactus'	Compact Burning Bush	B&B
CaKf	18	1 Gal.	Calamagrostis x 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 Gal.
CoSe	19	24"	Cornus sericea	Bailey Redtwig Dogwood	5 Gal.
RIAl	16	24"	Ribes alpinum 'Green Mound'	Dwarf Aline Currant	5 Gal.
SyMe	17	24"	Syringa meyeri	Dwarf Korean Lilac	5 Gal.
JuSa	40	24"	Juniperus sargentii viridis	Sea Green Juniper	5 Gal.
PeDa	83	1 GAL.	Perennials; Daylily mix	Mix of Daylily Perennials	Container
VDe	56	24"	Viburnum dentatum 'Blue Muffin'	Blue Muffin Arrowwood Viburnum	5 Gal.



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CHELSEA SENIOR COMMONS
 ROUTE 47
 SUGAR GROVE, IL

LANDSCAPE PLAN

Consulting Civil Engineering
 Land Planning & Surveying
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 Plainfield, Illinois 60544
 voice 815-254-0505
 fax 815-436-5158

C.M. Lavoie & Associates, INC.

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REVISED PLANS PER CLIENT COMMENTS DATED 10-12-17.

- ADDED SHRUBS AT FRONT ISLANDS.
- REVISED PLANTINGS ALONG EAST PROPERTY LINE.
- CLUSTER PARKWAY TREES AT CHELSEA AVE.