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DESIGN-BUILD CONTRACTOR

PRINCIPLE CONSTRUCTION CORPORATION 9450 WEST BRYN MAWR, SUITE 765 ROSEMONT, IL 60018 PHONE: 847.615.1515 EXT. 260

> CALL J.U.L.I.E. 1–800–892–0123 WITH THE FOLLOWING: COUNTY WILL CITY, TOWNSHIP **ROMEOVILLE**

> SEC. & 1/4 SEC. NO. T36N, R10E, SEC. 17

48 HOURS BEFORE YOU DIG. **EXCLUDING SAT., SUN. & HOLIDAYS**

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BENCHMARK



SEE SHEET ET1 FOR BENCHMARK INFORMATION

NOTE:

SPACECO, INC. IS TO BE NOTIFIED AT LEAST THREE (3) DAYS PRIOR TO STARTING CONSTRUCTION AND SHALL BE INCLUDED IN THE PRECONSTRUCTION MEETINGS





		REVISIONS									
	ORIGINAL PLAN DATE: JUNE 22, 2018										
#	SHEET #	REMARKS	DATE								
1	1,3-14	PER SPACECO INC	06/29/18								
2	ALL	PER VILLAGE OF ROMEOVILLE	07/25/18								

ENGINEER GREGORY CRESTO, P.E.

ILLINOIS REGISTRATION NO.: 062-055304 EXPIRATION DATE: 11/30/2019

DATE

PROFESSIONAL DESIGN FIRM NO.: 184-001157 EXPIRATION DATE: 04/30/2019 THESE PLANS OR ANY PART THEREOF SHALL BE CONSIDERED VOID WITHOUT THE SIGNATURE , SEAL, AND EXPIRATION DATE OF SEAL OF THE ENGINEER



GENERAL NOTES

- ALL PAVEMENT AND STORM SEWER CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS; ADOPTED JANUARY 1, 2016 BY ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO; AND IN ACCORDANCE WITH THE LATEST EDITION OF THE CODE OF THE MUNICIPALITY; EXCEPT AS MODIFIED HEREIN. IN CASE OF CONFLICT, MUNICIPAL CODE SHALL TAKE PRECEDENCE ALL SANITARY SEWER AND WATERMAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINDIS, PUBLISHED JULY 2009, AND IN ACCORDANCE WITH THE CODE OF THE MUNICIPALITY; EXCEPT AS MODIFIED HEREIN OR BY ANY PUBLIC AGENCY PERMITS ISSUED FOR THIS WORK. IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISIONS SHALL APPLY. ALL SIDEWALK AND PUBLIC AREAS MUST BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA, ILLINOIS HANDICAP ACCESSIBILITY AND ANY APPLICABLE LOCAL ORDINANCES. WHEN CONFLICTS EXIST BETWEEN THE GOVERNING AGENCIES, THE MORE STRINGENT SHALL GOVERN. THE CITED STANDARD SPECIFICATIONS, CODES AND PERMITS, WITH THESE CONSTRUCTION PLANS AND DETAILS, ARE ALL TO BE CONSIDERED PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT. 2. UTILITY LOCATIONS THE UTILITY COMPANIES HAVE BEEN CONTACTED IN REFERENCE TO UTILITIES THEY OWN AND OPERATE WITHIN THE LIMITS FOR THIS PROJECT. DATA FROM THESE AGENCIES HAS BEEN INCORPORATED INTO THE PLANS. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES AND THEIR EXACT LOCATIONS, AND TO SAFELY SCHEDULE ALL UTILITY RELOCATIONS. FOR ADDITIONAL INFORMATION, THE AGENCIES LISTED ON THIS SHEET MAY BE CONTACTED THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800-892-0123 AND THE MUNICIPALITY, FOR UTILITY LOCATIONS.
- EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH LOCATIONS OF THE NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE MUNICIPALITY TWENTY-FOUR (24) HOURS PRIOR

3. UTILITY COORDINATION

TO STARTING ANY CONSTRUCTION

1. REFERENCED CODES

- OWNER SHALL OBTAIN EASEMENTS AND PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE TH CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF ITS WORK FROM TIME TO TIME, TO COORDINATE SAME WITH UTILITY RELOCATION WORK, AND SHALL PREPARE REVISED SCHEDULE(S) IN COMPLIANCE THEREWITH AS DIRECTED BY THE OWNER.
- THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRING COOPERATION WITH OTHERS. ATAT SHALL BE CONTACTED ONE MONTH PRIOR TO START OF CONSTRUCTION IN ITS UTILITY AREAS. ALL OTHER AGENCIES, UNLESS OTHERWISE NOTED, SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR TEN (10) DAYS PRIOR TO THE START OF ANY SUCH OPFRATION.
- NO PLAN SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION". PRIOR TO 4. COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES WITH WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED. 5.
- UPON AWARDING OF THE CONTRACT, AND WHEN REQUIRED BY THE MUNICIPALITY OR OWNER, THE CONTRACTOR SHALL FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND IN THE AMOUNT REQUIRED GUARANTEEING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY OR OWNER, AS APPROPRIATE.
- 7. THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLORATIONS AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED WORK. HOWEVER, IF THE OWNER HAS A SOILS REPORT, THE RESULTS WILL BE AVAILABLE FROM THE OWNER UPON WRITTEN REQUEST.
- 8. CONTRACTOR SHALL VIDEO TAPE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.

9. COMMENCING CONSTRUCTION

- THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES, EITHER MUNICIPALITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION. ALL MATERIAL TESTING SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR. THE TESTING AGENCY SHALL MEET THE APPROVAL OF THE OWNER. FAILURE OF CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN TESTING COMPANIES TO BE
- UNABLE TO VISIT SITE AND PERFORM TESTING WILL CAUSE CONTRACTOR TO SUSPEND OPERATION (PERTAINING TO TESTING) UNTIL TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK TO BE BORNE BY CONTRACTOR.
- ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC. AT NO TIME SHALL 10. ACCESS BE DENIED TO ADJACENT PROPERTIES.
- THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES 11. DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE DEVELOPER'S ENGINEER AT CONTRACTOR'S COST.
- 12. ANY EXISTING SIGNS, LIGHT STANDARDS AND UTILITY POLES WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT HIS OWN EXPENSE AS SHOWN ON THE ENGINEERING PLANS OR AS DIRECTED BY THE DEVELOPER. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER. ANY SIGNS NOT REQUIRED TO BE RESET, SHALL BE DELIVERED TO THE RESPECTIVE OWNERS.
- REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, 13. CULVERTS, ETC. SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. HE IS RESPONSIBLE FOR ANY PERMIT REQUIRED FOR SUCH DISPOSAL.
- 14. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR SHALL BE RESTORED TO PROPER OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD LE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE ENGINEER, DEVELOPER OR MUNICIPAL ENGINEER UPON COMPLETION OF THE PROJECT. THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 15. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB.
- THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND 16. GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR T PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
- ALL EXISTING UTILITIES OR IMPROVEMENTS, INCLUDING WALKS, CURBS, PAVEMENT AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION. THIS 17. WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS SPECIFICALLY NOTED ON THE PLANS.
- 18. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED
- UNDER THE PROVISIONS OF (SSRBC) ARTICLE 201.05. 19. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT MEETING THE OWNER'S
- APPROVAL AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.
- ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE 20. CONTRACTOR AT HIS OWN EXPENSE OFF-SITE.
- ALL CUTS OVER 1" IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS OVER 1" IN DIAMETER 21. SHALL BE PAINTED WITH AN APPROVED TREE PAINT.
- 22. GENERAL EXCAVATION/UNDERGROUND NOTES

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- SLOPE SIDES OF EXCAVATIONS TO COMPLY WITH CODES AND ORDINANCES HAVING JURISDICTION. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE EITHER BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.
- PROVIDE MATERIALS FOR SHORING AND BRACING, SUCH AS SHEET PILING, UPRIGHTS, STRINGERS AND CROSS BRACES, IN GOOD SERVICEABLE CONDITION, PROVIDE MINIMUM REQUIREMENTS FOR TRENCH SHORING AND BRACING TO COMPLY WITH CODES AND AUTHORITIES HAVING JURISDICTION, MAINTAIN SHORING AND BRACING IN EXCAVATIONS REGARDLESS OF TIME PERIOD EXCAVATIONS WILL BE OPEN, CARRY DOWN SHORING AND BRACING AS EXCAVATION PROGRESSES IN ACCORDANCE WITH OSHA AND GOVERNING AUTHORITY.

- PREVENT SURFACE WATER AND SUBSURFACE OR GROUNDWATER FROM FLOWING INTO EXCAVATIONS. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS. PROVIDE AND MAINTAIN PUMPS, SUMPS, SUCTION AND DISCHARGE LINES AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS. CONVEY WATER REMOVED FROM EXCAVATIONS AND RAINWATER TO COLLECTING OR RUN-OFF AREAS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. PROVIDE AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS FOR EACH STRUCTURE. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.
- IMMEDIATELY REPORT CONDITIONS THAT MAY CAUSE UNSOUND BEARING TO THE OWNER/DEVELOPER BEFORE CONTINUING WORK.

23. FINAL ACCEPTANCE

- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AS DEFINED BY CONTRACT WITH OWNER. FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND THE CONTRACTO SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD. THIS GUARANTEE SHALL BE PROVIDED IN THE FORM AS DEFINED IN CONTRACT.
- BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE.
- NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE MUNICIPALITY. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE MUNICIPALITY PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE, AND PRIOR TO PLACING ANY CONCRETE AFTER FORMS HAVE BEEN SET.
- AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

24. UNDERGROUND NOTES

- UNDERGROUND WORK SHALL INCLUDE TRENCHING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT.
- WHERE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, EXISTING DRAINAGE STRUCTURES AND SYSTEMS SHALL BE CLEANED OF DEBRIS AND PATCHED AS NECESSARY TO ASSURE INTEGRITY OF THE STRUCTURE. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR SYSTEMS WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL AND DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS EXPENSE. NO PAYMENT WILL BE MADE FOR CLEANING STRUCTURES OR SYSTEMS CONSTRUCTED AS PART OF THIS PROJECT.
- ANY DEWATERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE C. REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK UNLESS THERE IS A SPECIFIC LINE ITEM FOR DEWATERING. IN THE EVENT THAT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED IN SEWER CONSTRUCTION, THE CONTRACTOR SHALL (UPON APPROVAL OF THE OWNER AND/OR ENGINEER) OVER-EXCAVATE TO A DEPTH OF ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE PIPE.
- TRENCH BACKFILL WILL BE REQUIRED FOR THE FULL TRENCH DEPTH WITHIN TWO (2) FEET OF PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS AND EXTENDING A DISTANCE EQUAL TO A 1:1 SLOPE FROM SUBGRADE ELEVATION TO TOP OF PIPE. THE TRENCH BACKFILL SHALL CONSIST OF GRANULAR MATERIAL MEETING IDOT CA-6 GRADATION. THE TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH (SSRBC) SPECIFICATIONS. JETTING WITH WATER SHALL NOT BE PERMITTED. THE COST OF SUCH CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND SHALL BE INCLUDED IN THE UNIT PRICE OF THE PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.
- THE CONTRACTOR SHALL INSTALL A 4" X 4" X 8' (NOMINAL) POST AT THE TERMINUS OF THE SANITARY, WATER AND STORM SERVICE, SANITARY AND STORM MANHOLES, CATCH BASINS, INLETS AND WATER VAULTS. THE POST SHALL EXTEND 4' ABOVE THE GROUND. THE TOP 12" OF SAID POST SHALL BE PAINTED AS FOLLOWS: SANITARY - RED, WATERMAIN - BLUE, STORM - GREEN.
- AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED, THE CONTRACTOR SHALL PLACE EROSION CONTROL AT REAR YARD INLET LOCATIONS, AND AT OTHER LOCATIONS SELECTED BY THE ENGINEER, TO MINIMIZE THE AMOUNT OF SILTATION WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM.
- HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ON THE ROAD SUBGRADES. WHENEVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO LOT AREAS OR THE STORM SEWER SYSTEM (IF AVAILABLE). DAMAGE TO THE ROAD SUBGRADE OR LOT GRADING DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING. OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE REPAIRED BY THE CONTRACTOR AT HIS COST.
- ALL TOP OF FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULT COVERS ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE. THIS ADJUSTMENT IS TO BE MADE BY THE SEWER AND WATER CONTRACTOR AND THE COST IS TO BE CONSIDERED INCIDENTAL. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS REQUIRED BY THE MUNICIPALITY UPON FINAL INSPECTION OF THE PROJECT. (FINAL GRADES TO BE DETERMINED BY THE MUNICIPALITY AT THE TIME OF FINAL INSPECTION AND MAY VARY FROM PLAN GRADE.)
- OWNER. SLEEVES SHALL BE 6" PVC INSTALLED 36" BELOW THE TOP OF CURB AND EXTEND TWO FEET OUTSIDE THE CURB. TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL.
- THE CONTRACTOR SHALL VERIFY THE SIZE AND INVERT ELEVATION OF ALL CONNECTIONS TO AVOID ANY CONFLICTS BEFORE STARTING WORK. NOTIFY OWNER OF ANY DISCREPANCIES.
- IT SHALL BE UNDERSTOOD THAT NEITHER THE MUNICIPALITY, ITS OFFICIALS, CONSULTANTS, NOR ITS 25. EMPLOYEES ARE AGENTS OF OR REPRESENTATIVES OF THE OWNER. NONE-THE-LESS, THE MUNICIPALITY, TS OFFICIALS AND EMPLOYEES ARE TO BE PROVIDED SAFE ACCESS TO ALL PHASES OF ALL WORK PERFORMED ON HE PROJECT SITE TO MONITOR THE QUALITY OF THE WORK AND ASSURE ITS CONFORMITY WITH THE PLANS AND SPECIFICATIONS. THERE SHALL BE NO PERSONAL LIABILITY UPON ANY OFFICIAL OR EMPLOYEE OF THE MUNICIPALITY ON ACCOUNT OF ACTIONS TAKEN OR NOT TAKEN IN THE COURSE OF THEIR WORK, THE CONTRACTOR MUST AT ALL TIMES MAINTAIN A SAFE ACCESS TO THE WORK FOR INSPECTORS. "SAFE" MEANING CONDITIONS COMPLYING WITH ALL PROVISIONS OF ALL APPLICABLE AND RECOGNIZED SAFETY STANDARDS, FEDERAL, STATE AND LOCAL. IF ACCESS IS NOT SAFE AND INSPECTIONS CANNOT BE MADE UNDER SAFE CONDITIONS, THE INSPECTOR CAN ORDER CESSATION OF THE WORK SO AFFECTED UNTIL SUCH TIME AS CONTRACTOR PROVIDES SAFE ACCESS.

VILLAGE OF ROMEOVILLE WATER NOTES

PRECAST CONCRETE VALVE VAULTS.

- 1. MANHOLES MUST CONFORM TO THE LATEST REQUIREMENTS OF ASTM C478.
- 2. NEVER TRANSPORT SECTIONS TO THE SITE UNTIL THEY HAVE CURED FOR AT LEAST TEN (10) DAYS.
- MARK EACH PIECE PLAINLY WITH MANHOLE NUMBERS AND DATE OF MANUFACTURE SO IT CAN BE INSTALLED IN THE PROPER LOCATION, AS SHOWN ON THE PLANS.
- 4. MAKE SURE FACTORY-INSTALLED CUTOUTS IN THE BOTTOM SECTIONS ARE APPROPRIATE FOR THE PIPE BEING LAID.
- PIPE CONNECTIONS AT MANHOLE CUTOUTS SHOULD BE EQUIPPED WITH RUBBER BOOTS TO ENSURE A WATERTIGHT CONNECTION. MATERIAL SHALL BE KOR-N-SEAL CONNECTOR, AS MANUFACTURED BY NPC, INC.
- JOINT SEALANT FLEXIBLE RUBBER SEALANT FOR JOINTS IN PRE-CAST MANHOLE SECTIONS SHALL PROVIDE PERMANENTLY FLEXIBLE WATERTIGHT JOINTS, SHALL REMAIN WORKABLE OVER A WIDE TEMPERATURE RANGE AND SHALL NOT SHRINK, HARDEN, OR OXIDIZE UPON AGING. MATERIAL SHALL BE EWQUAL TO TYLOX SUPERSEAL AND SHALL MEET ASTM C443 AND ASTM C361 REQUIREMENTS.
- 7. THE FRAME FOR THE LID SHALL BE INSTALLED WHEN THE CONE SECTION IS CAST. HEAT-SHRINKABLE ENCAPSULATION FOR EXTERNAL WRAPPING OF ALL JOINTS: WRAPID SEAL AS MANUFACTURED 8.

FIRE HYDRANTS.

- 1. PLEASE BE CONSCIOUS OF DAMAGING THE PAINT ON THE HYDRANTS DURING INSTALLATION. THE VILLAGE OF ROMEOVILLE HAS FOUND THAT THE PAINT ON THE HYDRANTS CAN BE DAMAGED DURING BACKFILLING. IF REQUESTED BY THE VILLAGE OF ROMEOVILLE WATER SUPERINTENDENT, ANY HYDRANTS EXHIBITING EXCESSIVE ROCK DAMAGEWILL BE SAND BLASTED AND REPAINTED BY AN APPROVED CONTRACTOR PRIOR TO ACCEPTANCE.
- 2. A MINIMUM OF 48 HOURS PRIOR TO ANY WATER USAGES (I.E. FLUSHES, FILLS, ETC.), THE CONTRACTOR MUST CALL THE VILLAGE OF ROMEOVILLE'S WATER DEPARTMENT AT 815-886-1870 TO GET APPROVAL OF SAID USAGE. ANY UNAUTHORIZED USAGES WILL RESULT IN PENALTIES.
- 3. ALL VALVES AND HYDRANTS SHALL BE SUBMITTED TO THE VILLAGE OF ROMEOVILLE WATER DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO ORDERING.

VILLAGE OF ROMEOVILLE - MINIMUM CHLORINATION STANDARDS:

- A. GAS CHLORINE MUST BE USED FOR DISINFECTION. THE CHLORINATION CONTRACTOR MUST CALL 815-886-1870 A MINIMUM OF 24-HOURS IN ADVANCE TO SCHEDULE CHLORINATION.
- SAMPLES ARE BEING COLLEC
- CHLORINE INSTITUTE, INC. THE CHLORINATOR MUST BE A LICENSED PLUMBER OR CERTIFIED ILLINOIS WATER OPERATOR WITH A MINIMUM OF 5 YEARS EXPERIENCE WORKING WITH CHLORINE DISINFECTION OF WATER SUPPLY LINES.
- THE CHLORINATION CONTRACTOR MUST HAVE TWO PEOPLE PRESENT TO CHLORINATE. ONE TO MONITOR THE CYLINDER AND ONE TO MONITOR IN THE FIELD.
- THE CHLORINATION CONTRACTOR MUST HAVE UPDATED 24-HOUR EMERGENCY PHONE NUMBERS ON FILE WITH THE VILLAGE. THE CHLORINATION CONTRACTOR MUST COMPLY WITH STATE AND FEDERAL REGULATIONS REGARDING TRANSPORTATION AND HANDLING OF CHLORINE CYLINDERS:

• SHIPPING AND EMERGENCY PAPERS FOR EVERY JOB LOCATION PROOF OF INSURANCE FOR HALLING AND HANDLING CHLORINE GAS • COMMERCIAL DRIVER'S LICENSE WITH HAZMAT ENDORSEMENT AND MEDICAL CARD • COPY OF EMERGENCY RESPONSE GUIDEBOOK IN VEHICLE • HAZMAT CERTIFICATE OF REGISTRATION • HAZARDOUS MATERIALS PLACARD DISPLAYED ON VEHICLE • CYLINDER STRAPPED UPRIGHT IN TRUCK

- J. UNDER NO CIRCUMSTANCES WILL CHLORINE CONTRACTORS BE ALLOWED TO APPLY HEAT TO THE CHLORINE CYLINDER (I.E. HOT BATHS, PROPANE TORCHES, ETC.). WHILE THE CYLINDER IS BEING USED IT MUST BE IN A VERTICAL POSITION, AS WELL AS BEING AFFIXED TO A SOLID OBJECT. PRIOR TO CHLORINATION, THE CHLORINATION CONTRACTOR MUST PROVIDE A DETAILED WRITTEN CHLORINATION AND FLUSHING PLAN TO THE VILLAGE FOR REVIEW AND WRITTEN APPROVAL.
- AT ANY TIME, THE VILLAGE OR ITS AUTHORIZED REPRESENTATIVE MAY ASK FOR PROOF OF ANY OR ALL OF THE ABOVE INFORMATION. PLEASE CONTACT THE VILLAGE OF ROMEOVILLE PUBLIC WORKS DEPARTMENT (815-886-1870) WITH ANY QUESTIONS.



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![](_page_6_Figure_0.jpeg)

### - silt fence - erosion eel

## - stabilized construction entrance

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activity temporarily ceased. 2) Structural Practices - Provided below is a description of structural practices that should be implemented, to the degree attainable to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Structural practices should be placed on upland soils to the degree practicable The installation of the following devices may be subject to Section 404 of the Clean Water Act:

permanently ceased is precluded by snow cover, stabilization measures shall be initiated as soon as practicable. (b) Where construction activity will resume on a portion of the site within 14 days from when activities ceased, (e.g., the total time period that construction activity is temporarily ceased is less than 14 days) then stabilization measures do not have to be initiated on that portion of site by the 7th day after construction

days after the construction activity on that portion of the site has temporarily or permanently ceased. (a) Where the initiation of stabilization measures by the 7th day after construction activity temporarily or

Site-specific scheduling of the implementation of these practices is included in the Soil Protection Chart. A record of the dates when major grading activities occur, when construction activities cease on a portion of the site, and when stabilization measures are initiated should be included in the SWPPP. Except as provided in paragraphs (a) and (b) below, stabilization measures shall be initiated as soon as practicable on portions of the site where construction activities have temporarily or permanently ceased, but in no case more than

### - permanent seeding - temporary seeding - erosion control blanket

The following temporary and permanent stabilization practices, at a minimum, are proposed:

1) Stabilization Practices - Areas that will not be paved or covered with non-erosive material should be stabilized using procedures in substantial conformance with the Illinois Urban Manual. This SESC Plan includes site-specific soil erosion and sediment control measures. Additional erosion controls should be implemented as necessary, as determined by the Engineer or Primary Contact.

the end of a 0.5-inch (or greater) rain event, or snowfall equivalent. Unless otherwise indicated, all vegetative and structural erosion and sediment control practices should be installed to the Standard Practice. The contractor is responsible for the installation of any additional erosion and sediment control measures necessary to minimize erosion and sedimentation as determined by the Engineer or Primary Contact,

C. Erosion and Sediment Controls The appropriate soil erosion and sediment controls should be implemented on site and should be modified to reflect the current phase of construction. All temporary sediment and erosion control measures should be repaired or replaced as soon as practicable to maintain NPDES compliance. Permittee or an authorized agent is responsible for inspecting all sediment and erosion control measures at a minimum of every 7 calendar days and within 24 hours of

Stabilization measures should be initiated where construction activities have temporarily or permanently ceased, in accordance with Local and State requirements, as described below. Once construction activity in an area has permanently ceased, that area should be permanently stabilized. Temporary perimeter controls should be removed after final stabilization of those portions of the site upward of the perimeter control.

Best Management Practices will be implemented on an as-needed basis to protect water quality. Perimeter controls of the site should be installed prior to soil disturbance (excluding soil disturbance necessary to install the controls), including demolition activities. Perimeter controls, including the silt fence, should be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Stabilized construction entrance(s) and sediment traps should be installed as described in the intended sequence of construction activities. The contractor is responsible for the adequate protection (including sediment control) of existing sewers and sewer structures during construction operations. As necessary, the appropriate sediment control measure should be installed prior to land disturbing activities.

## B. Control Implementation Schedule

### - Village of Romeoville - Will County – IFPA

guidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for the construction site. The soil erosion and sediment control measures for this site should meet the requirements of the following agencies:

## are enforceable under the ILR10 permit even if they are not specifically included in a SWPPP required under the ILR10 permit. This provision does not apply to provisions of master plans, comprehensive plans, non-enforceable

A. Approved State or Local Plans The management practices, controls and other provisions contained in the SWPPP should be at least as protective as the requirements contained in the Illinois Environmental Protection Agency's (IEPA) and the United States Department of Agriculture's Natural Resource Conservation Service Illinois Urban Manual, 2002. Requirements specified in sediment and erosion control site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of a Notice of Intent (NOI) to be authorized to discharge under the ILR10 permit, incorporated by reference and

This section of the SESC Plan addresses the various controls that should be implemented for each of the major construction activities described in the "Site Description" section. For each measure identified in the SWPPP, the contractor(s) or subcontractor(s) that will implement the measure should be identified. All contractors and subcontractors that are identified should be required to sign a copy of the certification statement from Part IV.F. of the ILR10 Permit (in accordance with Part VI.G. - Signatory Requirements, of the ILR10 Permit). All signed certification statements should be maintained in the SWPPP.

This Soil Erosion & Sediment Control (SESC) Plan has been prepared to fulfill one of the requirements of the National Pollutant Discharge Elimination System (NPDES) General Permit No. ILR10 . The second se

subcontractor that will implement a measure of the SWPPP.

soils for major portions of the construction site:

a) Selective vegetation removal for silt fence installation b) Silt fence installation

c) Construction fencing around areas not to be disturbed d) Stabilized construction entrance

1) Install perimeter sediment control measures

1. SITE DESCRIPTION

measures, at a minimum,

Construct building

1) drainaae patterns;

approximately 2.12 acres of the site.

4) areas of soil disturbance;

- sediment from disturbed soils

- oil or other petroleum products

- portable sanitary stations

chemical storage areas

the geotechnical report (by others).

E. Refer to Sheets <u>GR1 & SE3 for a</u> site plan indicating:

surface waters (including wetlands); and,

SESC Plan should be maintained on site as an integral component of the Storm Water Pollution Prevention

Plan (SWPPP). The SWPPP, including the SESC Plan, should be amended whenever there is a change in design,

construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to the Waters of the State and which has not otherwise been addressed in the SWPPP. The SWPPP,

shall also be amanded if it proves to be ineffective in eliminating or significantly minimizing pollutants, or in

otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with

construction site activity. In addition, the SWPPP shall be amended to identify any new contractor and/or

A. The following is a description of the nature of the construction activity: Construction of a 26,880 s.f.

B. The following is a description of the intended sequence of construction activities which will disturb

Clear and grub (as necessary) Strip topsoil, stockpile topsoil and grade site Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)

Install roadway and parking pavement Permanently stabilize bio-basins with seed and erosion control blanket

) approximate slopes anticipated before and after major grading activities;

) the location of areas where stabilization practices are expected to occur;

F. 1) The name of the receiving water(s) is(are): <u>Village of Romeoville Storm Sewer</u>.
2) The name of the ultimate receiving water is: <u>Des Plaines River</u>
3) The extent of wetland acreage at the site is <u>0.00 acres</u>.

G. Potential sources of pollution associated with this construction activity may include:

the location of major structural and nonstructural controls;

8) locations where storm water is discharged to a surface water.

Install storm sewer, sanitary sewer, watermain and associated inlet & outlet protection

C. The site has a total acreage of approximately 2.12 acres. Construction activity will disturb

2) Existing data describing the soil or quality of any discharge from the site is included in

D. 1) An estimated runoff coefficient of the site after construction activities are completed is 0.78.

locations where vehicles enter or exit the site and controls to minimize off-site sediment tracking;

warehouse/office facility. The construction activities for the site improvements will include: mass grading,

pavement construction, installation of utilities including storm sewers, soil erosion and sedimentation control

Remove all temporary soil erosion and sediment control measures after the site is stabilized with vegetation

## 2. CONTROLS

- concrete and concrete trucks
- construction debris - landscape waste
- solvents

- fuel tanks

- staging areas vaste containers

- odhesives

- detergents fertilizers

- raw materials (e.g., bagged partiand cement)

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<ul> <li>In a staining a discharged to a stabilized area that caes of the work in order that be discharged to a stabilized area that consists of an energy dissipating device (e.g., stone), sediment filter bag, or both. Adequate erosion controls should be used during de-watering operations as necessary. Stabilized conveyance channels should be installed to direct water to the desired location as applicable. Additional control measures may be installed at the outlet area at the discretion of the Primary Contact or Engineer.</li> <li>M. Off-Site Vehicle Tracking</li> <li>All access to and from the construction site is to be restricted to the contruction entrance. The site should have one or more stabilized construction entrances in conformance with the Plan details. Stabilized construction entrance(s) should be installed to help reduce vehicle tracking of sediments. Streets should be swept as needed to reduce excess sediment, dirt, or stone and removing top layers of stone and sediment, as needed. Vehicles hauling eradible material to and from the construction site should be covered with a tarp.</li> <li>N. Topsoil Stockpile Management</li> <li>If topsoil is to be stockpiled at the site, select a location so that it will not erade, block drainage, or interfere with work on site. Topsoil stockpiles should not be located in the 100-year floadplain or designated buffer protecting Waters of the State. During construction of the project, soil stockpiles should be completed if the stockpile is to remain undisturbed for longer than thirty days.</li> </ul>	7. IF DEWATERING DEVICES ARE USED, DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. ALL PUMPED DISCHARGES SHALL BE ROUTED THROUGH APPROPRIATELY DESIGNED SEDIMENT TRAPS OR BASINS.

STABILIZATIONPERMANENTSEEDINGDORMANTSEEDINGSODDINGMULCHING	JAN. B F A KEN MIX 30 B KEN MIX 45	FEB.	MAR. + A + C + C + E*** EGRASS 90 ERENNIAL EGRASS 13 ERENNIAL + STRAW M RRIGATION RRIGATION RRIGATION	APR.	MAY	JUNE * C SPR D WHE 150 E SOD F STR NE AND JL 3 WEEKS J TION	JULY AFTER APPL CHART	AUG.	SEPT.	OCT.	NOV -	DEC.			NO. DATE REMARKS
															2 07/25/18 PER VILLAGE OF ROMEOVILLE 1 06/29/18 PER SPACECO INC NO. DATE REMARKS
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	I CERTIFY UNDER MY OUAL IF IED ON MY INQ RESPONSIB AND BEL IE FOR SUBMI KNOWING V SIGNATURE PRINTED N NOTE: THE CERTIF	UNDER PEN DIRECTION PERSONNEL UIRY OF TH LE FOR GAT F, TRUE, A TTING FALS IOLATIONS. OF OWNER AME OF OWN ICATION IL	VALTY OF L. OR SUPERV - PROPERLY I PERSON HERING TH ACCURATE, SE INFORMA	AW THAT TH ISION IN A GATHERED OR PERSONS E INFORMAT AND COMPLE TION, INCL	HIS DOCUME ACCORDANCE AND EVALU S WHO MANA TION, THE ETE. I AM LUDING THE	NT AND ALI WITH A S' ATED THE GE THE ST INFORMATIO AWARE THA' POSSIBIL	L ATTACHME YSTEM DESI INFORMATIO STEM, OR T ON IS, TO T THERE AR ITY OF FIN	NTS WERE F GNED TO AS N SUBMITTE HOSE PERSC THE BEST C E SIGNIFIC E AND IMPF	REPARED SURE THAT D. BASED NS DIRECTL F MY KNOWL ANT PENALT ISONMENT F	Y EDGE IES OR			SPA FILE 1020 DAT 06/1	<b>CEC</b> NAME 222/18	d n n n n n n n n n n n n n n n n n n n

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EARTHWORK NOTES	SANITARY SEWER NOTES
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SIGNING AND PAVEMENT MARKING	A. UPON COMPLETION OF CONSTRUCTION, RECORD DRAWINGS FOR ALL PUBLIC IMPROVEMENTS MUST BE PROVIDED TO THE VIL DISKETTE IN AUTOCAD (.dwg) FORMAT. CORRECTIONS TO THE SITE DESIGN, UTILITY PLACEMENT, AND ELEVATIONS MU SHOWN ON THE DIGITAL DRAWINGS BY CROSSING OUT THE ORIGINAL DESIGN INFORMATION AND ADDING THE CHANGES MAD
<ol> <li>ALL SIGNING AND PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE ILLINDIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC). MUNICIPAL CODE AND THESE PLANS.</li> <li>CONTRACTOR SHALL ESTABLISH LOCATION OF ALL SIGNS AND MARKINGS FOR APPROVAL BY THE OWNER PRIOR TO INSTALLATION.</li> <li>SIGNS: SIGNS SHALL BE CONSTRUCTED OF 0.080 INCH THICK FLAT ALUMINUM PANELS WITH REFLECTORIZED LEGEND ON THE FLACE IN ACCORDANCE WITH (SSRBC) SECTION 720. LEGEND SHALL BE IN ACCORDANCE WITH MUTCD AND AS SHOW NO THE PLANS.</li> <li>POSTS: SIGN POSTS SHALL BE A HEAVY DUTY STEEL "U" SHAPED CHANNEL WEIGHING 3.0 POUNDS/FOOT SUCH AS A TYPE B METAL POST PER (SSRBC) SECTION 729 [OR: 2" PERFORATED STEEL TUBE PER (SSRBC) SECTION 728].</li> <li>SIGNS AND POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE ABOVE (SSRBC) SECTIONS AND IDOT STANDARD 729001 EXCEPT AS MODIFIED BY THE PLANS.</li> <li>PAVEMENT MARKINGS: ALL PAVEMENT MARKINGS THE ROADWAY LIMITS, SUCH AS STOP LINES, CENTERLINES, CROSSWALKS AND DIRECTIONAL ARROWS SHALL BE REFLECTORIZED THERMOPLASTIC PER (SSRBC) SECTION 780, EXCEPT AS MODIFIED BY THE PLANS.</li> <li>PAVEMENT MARKINGS ON BIKE PATHS, PARKING LOT STALLS, AND SIMILAR "LOW WEAR" APPLICATION, SHALL BE PAINT IN ACCORDANCE TO (SSRBC) SECTION 780, EXCEPT AS MODIFIED BY THE PLANS. REFLECTIVE BEADS ARE NOT REQUIRED.</li> <li>COLOR, WIDTH, STYLE, AND SIZE OF ALL MARKINGS SHALL BE IN ACCORDANCE WITH (MUTCD) EXCEPT AS MODIFIED BY THE PLANS.</li> <li>THERMOPLASTIC MARKINGS SHALL BE INSTALLED WHEN THE PAVEMENT TEMPERATURE IS 55" F AND RISING. PAINT MARKINGS MAY BE INSTALLED WHEN THE ARREVER THE PAVEMENT TEMPERATURE IS 55" F AND RISING.</li> </ol>	<ul> <li>12. FINAL ACCEPTANCE AND TESTING OF SANITARY SEWER:</li> <li>BEFORE FINAL ACCEPTANCE, THE SANITARY SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE "STANDARD SPECIFICATIONS FOR WAIRE AND SEWER MAIN CONSTRUCTION IN ILLINOIS". SPECIFICALLY, ALL PIPELINES CONSTRUCTED OF FLI MATERIALS SHALL BE SUBJECT TO AIR EXFILTRATION TESTS, TELEVISING TEST, AND DEFLECTION TESTS. THE DEFLECTION TEST PREFORMED NO SOONER THAN THIRTY (30) DAYS OF THE BACKFILLING OPERATION AND SHALL CONSIST OF MEASURING THE PIPE FOI INTERNAL PIPE DIAWFER. ALL PIPE KCEDING THE BACKFILLING OPERATION SHALL LONG THE UNDER LOAD SHALL CONSIST OF MEASURING THE PIPE FOI INTERNAL PIPE DIAWFER. ALL PIPE KCEDING THE DEFLECTION SHALL BE ACCOMPLISHED BY PULLING A MANDED OR PIN-TYPE "GO / NO GO" DEVICE, WITH A DIAMFERE EQUAL TO NINTY-FIVE (95) PERCENT OF THE UNDERLECTED INSIDEMED TO HAVE REACHED THE LINIT OF DIAWER TELEVISIO. COPIES OF ALL VIDEO TAPES MUST SUBMITTED TO THE VILLAGE OF ROMEOVILLE.</li> <li>13. FINAL TESTING OF SANITARY SEWER MANHOLES:</li> <li>VACUUM TESTING SHALL BE CARRIED OUT IMMEDIATELY AFTER ASSEMBLY AND PRIOR TO BACKFILLING OF MANHOLES THAT ARE UP TI SEVENT-TWO (72) INCHES IN DIAWFERE. ALL LIFT HOLES SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. TH MANHOLE SHALL BE CLOREDRY SHALL BE CONCENTRY SEVENT SHALL BE CONCENTRY AND CONTING RINGS AND CHIMMEY SEAS SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. TH MANHOLE SHALL BE CARCENTY SEVENT-TWO (72) INCHES IN DIAMETER. ALL LIFT HOLES SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. THANNOLE SHALL BE CONCENTS SHALL BE CONCENTS AND AND CHIMMEY SEAS SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. THE MANHOLE SHALL BE CONCENTS SHALL BE PLUGS DIAME TO SECRETY BRACE THE PLUGS.</li> <li>14. FINAL TESTING OF ANITARY SEWER MANHOLES.</li> <li>15. FINAL DECOUNTS AND CHIMMEY SEAS SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. THE HORIZONTAL MANHOLE STOR EACH AND CONTING RINGS AND CHIMMEY SEAS SHALL BE PLUGGED WITH A NON-SHRINK GROUT S</li></ul>

## TARY SEWER NOTES

### CHLORIDE) PLASTIC PIPE WITH A STANDARD DIMENSION RATIO (SDR) OF DINTS CONFORMING TO ASTM D-3212 AND PVC (POLYVINYL CHLORIDE) (SDR) OF 21 CONFORMING TO ASTM D-2241 WITH PUSH-ON JOINTS IS. PAYMENT SHALL BE MADE AT THE ARY SEWER COMPLETE IN PLACE. DTED ON THE PLANS, OR WHERE THE IEPA MINIMUM

NGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS. OUPLINGS SHALL NOT BE USED ON ANY SEWER MAIN. SING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.

## (4") INCHES OF COMPACTED CRUSHED GRAVEL OR STONE, E MECHANICALLY TAMPED CRUSHED GRAVEL OR STONE COVER ABOVE THE TOP VCHES FOR PVC PIPE AND TO THE SPRING LINE FOR DIP. THE BEDDING AND FOR PVC PIPE AND ASTM D-448 SIZE 67 FOR DIP PIPE. THE COST OF

TILITIES, PAVEMENTS, CURBS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE ND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT HANICALLY COMPACTED IN 9" THICK (LODSE MEASUREMENT) LAYERS. TO THE TRENCH BACKFILL LIMITS DETAIL.

## AND 5'-O" I.D. AS SPECIFIED ON UTILITY PLAN PRECAST CONCRETE SECTIONS UMINOUS OR "O" RING JOINTS, IN ACCORDANCE WITH MUNICIPAL REGULATIONS, E UP WITH THE MANHOLE STEPS. ALL MANHOLE STEPS SHALL BE AT 16" O.C.

### AND MANHOLE SECTIONS SHALL BE SET IN BUTYL ROPE OR APPROVED EQUAL. SO BE EXTERNALLY SEALED WITH A 6" WIDE SEALING BAND OR RUBBER AND RUBBER OR POLYETHYLENE WITH AN UNDER LAYER OF RUBBERIZED MASTIC TANDARD SPECIFICATION FOR EXTERNAL SEALING BANDS FOR CONCRETE PIPE, NNECTION TO NEW AND EXISTING MANHOLES THROUGH OPENINGS SHALL BE

ONNECTOR CONFORMING TO ASTM C-923. INTERNAL/EXTERNAL ADAPTOR SEAL TO SEAL THE OUTSIDE OF THE CHIMNEY SHEET D-1 FOR MORE DETAILS.

### ST JORDAN 1022Z3 EMBOSSED WITH "SANITARY" AND "VILLAGE OF LLY WRAPPED WITH MACWRAP OR EQUAL. RUBBER GASKETED BOOTS

JUSTING HEIGHT) AND A MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING GWED. UNDER PAVED AREAS, THE VERY TOP RING SHOULD BE ONE (1) EJW ER (1" TO 3" MAX HEIGHT)

### IES SHALL BE PROVIDED AT THE JUNCTION OF SANITARY SEWERS 5 TWO FEET (2'), OR AS SHOWN ON THE PLANS. THE ENTIRE DROP ICALLY WITH THE MANHOLE BARREL SECTION.

### RED. THE PROCEDURE AND ALLOWABLE TESTING LIMITS FICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", EPANCY BETWEEN THE STANDARD SPECIFICATIONS AND THE MUNICIPAL CODE, LENGTH OF THE SANITARY SEWER IS REQUIRED TO BE BOTH AIR TESTED AND

# F ALL REPORTS OF TESTS CONDUCTED BY AN OF PVC PLASTIC PIPE. TESTS SHALL BE CONDUCTED IN ACCORDANCE LOADING PROPERTIES OF PLASTIC PIPE BY PARALLEL PLATE LOADING", IATE FOR THE PIPE TO BE USED. TESTS SHALL ALSO BE CONDUCTED IMUM DIAMETRIC DEFLECTION OF THE SPIGOT.

INGS FOR ALL PUBLIC IMPROVEMENTS MUST BE PROVIDED TO THE VILLAGE ON ONS TO THE SITE DESIGN, UTILITY PLACEMENT, AND ELEVATIONS MUST BE THE ORIGINAL DESIGN INFORMATION AND ADDING THE CHANGES MADE.

## E TESTED IN ACCORDANCE WITH SECTION 31-1.11 OF THE "STANDARD IN ILLINDIS". SPECIFICALLY, ALL PIPELINES CONSTRUCTED OF FLEXIBLE , TELEVISING TEST, AND DEFLECTION TEST. THE DEFLECTION TEST SHALL BE KFILLING OPERATION AND SHALL CONSIST OF MEASURING THE PIPE FOR THE PIPELINE UNDER LOAD SHALL LIMITED TO FIVE (5) PERCENT OF THE CTION SHALL BE CONSIDERED TO HAVE REACHED THE LIMIT OF ITS SERVICEABILITY ELECTION TESTING SHALL BE ACCOMPLISHED BY PULLING A MANDREL, SHERE, TO NINTY-FIVE (95) PERCENT OF THE UNDEFLECTED INSIDE DIAMETER OF THE SANITARY SEWER HAVING A DIAMETER OF EIGHT (8) INCHES OR GREATER SHALL TED TO THE VILLAGE OF ROMEOVILLE.

### ASSEMBLY AND PRIOR TO BACKFILLING OF MANHOLES THAT ARE UP TO SHALL BE PLUGGED WITH A NON-SHRINK GROUT, OR RUBBER PLUG. THE SHALL BE IN PLACE BEFORE TESTING. NO GROUT SHALL BE PLACED IN SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM VACUUM TESTING SHALL TEST ALL MANHOLES FOR LEAKAGE. A VACUUM MANHOLE AND THE TIME MEASURED FOR THE VACUUM TO DROP TO (9) INCNES UIREMENTS SHOWN IN TABLE 1 OF ASTM C 1244-02. IF TESTING FAILS, THE TESTING SHALL BE COMPLETED PRIOR TO BACKFILLING IABLE. FIXED EXTERNALLY, AND TO GIVE THE HORIZONTAL MANHOLE JOINTS AN

FROM THE SITE FOR A PERIOD OF TWO MONTHS (ENCOMPASSING AT LEAST TWO INFILTRATION OCCURRING IN THE SYSTEM. THE DATA MUST BE SUBMITTED TO THE IC IMPROVEMENTS.

## PAVING NOTES

- 1. GENERAL PAVING WORK INCLUDES FINAL SUBGRADE SHAPING, PREPARATION AND COMPACTION; PLACEMENT OF SUB-BASE OR BASE COURSE MATERIALS; BITUMINOUS BINDER AND/OR SURFACE COURSES; FORMING, FINISHING AND CURING CONCRETE PAVEMENT, CURBS AND WALKS; AND FINAL CLEAN-UP AND ALL RELATED WORK.
- COMPACTION REQUIREMENTS: [REFERENCE ASTM D-1557 (MODIFIED PROCTOR)] SUB-GRADE = 93%; SUB-BASE = 93%; AGGREGATE BASE COURSE = 95%; BITUMINOUS COURSES = REFER TO SSRBC ARTICLE 406.07. THE SOILS ENGINEER IS RESPONSIBLE FOR ENSURING THAT MATERIALS ARE PROPERLY PLACED AND COMPACTED.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND THE SAFE MANAGEMENT OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION AND IN ACCORDANCE WITH THE MUNICIPAL CODE.

## 2. SUB-GRADE PREPARATION

- EARTHWORK FOR PROPOSED PAVEMENT SUBGRADE SHALL BE FINISHED TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED Α. AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS. UNLESS THE CONTRACTOR ADVISES THE OWNER AND ENGINEER IN WRITING PRIOR TO FINE GRADING FOR BASE COURSE CONSTRUCTION, IT IS UNDERSTOOD THAT HE HAS APPROVED AND ACCEPTS THE RESPONSIBILITY FOR THE SUBGRADE.
- PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE PROOF ROLLED AND INSPECTED FOR UNSUITABLE MATERIALS AND/OR EXCESSIVE MOVEMENT. THE SOILS ENGINEER SHALL CONDUCT AND THE VILLAGE SHALL WITNESS ALL PROOF ROLLS. IF UNSUITABLE SUBGRADE IS ENCOUNTERED, IT SHALL BE CORRECTED IN A MANNER APPROVED BY THE OWNER OR HIS REPRESENTATIVE. THIS MAY INCLUDE ONE OR MORE OF THE FOLLOWING METHODS: SCARIFY DISC AND AERATE. REMOVE AND REPLACE WITH STRUCTURAL CLAY FILL.
- REMOVE AND REPLACE WITH GRANULAR MATERIAL. 4) USE OF GEOTEXTILE FABRIC.
- MAXIMUM DEFLECTION ALLOWED IN ISOLATED AREAS MAY BE 1/4" TO 1/2" IF NO DEFLECTION OCCURS OVER THE MAJORITY OF THE AREA.
- PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL, THE PAVEMENT AREA SHALL BE FINE GRADED TO WITHIN 0.04 FEET (1/2") OF FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF CURB, SO AS TO INSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS QUANTITY OF BASE MATERIALS DUE TO IMPROPER SUBGRADE PREPARATION WILL BE HONORED.
- PRIOR TO PLACEMENT OF THE BASE COURSE, ALL SUBGRADES MUST BE APPROVED BY THE MUNICIPAL ENGINEER, SOILS ENGINEER AND/OR OWNER.

## 3. CONCRETE WORK

- A. ALL EXTERIOR CONCRETE SHALL BE PORTLAND CEMENT CONCRETE CLASS SI OR PV PER (SSRBC) SECTION 1020.04 WITH AIR ENTRAINMENT OF NOT LESS THAN FIVE (5%) OR MORE THAN EIGHT (8%) PERCENT. CONCRETE SHALL BE A MINIMUM OF SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT FOURTEEN (14) DAYS. ALL CONCRETE SHALL BE BROOM FINISHED PERPENDICULAR TO THE DIRECTION OF TRAVEL. THE ADDITION OF CALCIUM CHLORIDE AND THE SUBSTITUTION OF FLY ASH FOR PORTLAND CEMENT IS PROHIBITED. 1.50 Ibs OF COLLATED, ILLIBRATED, POLYPROPYLENE OLEFIN FIBERS 0.50 TO 0.75 INCHES IN LENGTH SHALL BE ADDED TO EACH CUBIC YARD OF CONCRETE USED FOR SIDEWALKS. THE FIBERS SHALL BE AS MANUFACTURED UNDER THE NAME "FIBERMESH" OR EQUAL.
- CONCRETE CURB AND/OR COMBINATION CURB AND GUTTER SHALL BE OF THE TYPE SHOWN ON THE PLANS. THE CONTRACTOR IS CAUTIONED TO REFER TO THE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS-SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. PREMOLDED FIBER EXPANSION JOINTS, WITH TWO 3/4″ X 18″ EPOXY COATED STEEL DOWEL BARS, SHALL B. BE INSTALLED AT SIXTY (60) FOOT INTERVALS AND AT ALL PC'S, PT'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. SAWED OR FORMED CONTRACTION JOINTS SHALL BE PROVIDED AT NO GREATER THAN FIFTEEN (15) FOOT INTERVALS BETWEEN EXPANSION JOINTS. NO HONEY-COMBING OF THE CURB AND GUTTER WILL BE ACCEPTED. IN CASES WHERE NEW CURB IS BEING POURED ADJACENT TO EXISITNG CURB, THREE (3) DRILLED AND GROUTED NO. 5 REINFORCING BARS OR EXPANSION TIE ANCHORS, 5/8" IN DIAMETER, SHALL BE USED TO TIE THE NEW CURB AND GUTTER TO THE EXISTING CURB AND GUTTER ON EACH SIDE.
- C. CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS INTERSECT CURB LINES, AND OTHER LOCATIONS AS DIRECTED, FOR THE PURPOSE OF PROVIDING ACCESSIBILITY. (SEE CONSTRUCTION STANDARDS FOR DETAIL). BARRIER CURB SHALL ALSO BE DEPRESSED AT DRIVEWAY LOCATIONS.
- D. THE CURBS SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE BASE COURSE, THE CONCRETE MUST CURE FOR AT LEAST SEVEN DAYS BEFORE THE CURBS ARE BACKFILLED.
- CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE SCORED JOINTS AT 5 FOOT INTERVALS AND 1/2 " PREMOLDED FIBER EXPANSION JOINTS AT 50 FOOT INTERVALS, AND ADJACENT TO
- CONCRETE CURBS, DRIVEWAYS, FOUNDATIONS, ETC. CONCRETE DRIVEWAY APRONS SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. PROVIDE 6" X 6" NO. 6 WELDED WIRE MESH IN DRIVEWAYS. PROVIDE 1/2 "PREMOLDED FIBER EXPANSION JOINT ADJACENT TO CURBS AND CONCRETE SIDEWALKS. PROVIDE SAWED OR FORMED CONTRACTION JOINT AT MID-POINT F. AND 15 FOOT MAXIMUM.
- STANDARD REINFORCED CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE ABOVE AND THE PLANS. SAWED G. OR FORMED CONTRACTION EXPANSION JOINTS SHALL BE AS SHOWN ON THE PLANS.
- H. CONCRETE CURING AND PROTECTION SHALL BE IN ACCORDANCE WITH (SSRBC) METHOD I, II, OR III.
- I. THE COST OF AGGREGATE BASE OR SUB-BASE UNDER CONCRETE WORK SHALL BE INCLUDED IN THE COST OF THE RESPECTIVE CONCRETE ITEM. 4. FLEXIBLE PAVEMENT
- THE PAVEMENT MATERIALS FOR BITUMINOUS STREETS, PARKING LOTS, DRIVEWAYS, SIDEWALKS AND PATHS SHALL BE AS DETAILED ON THE PLANS. UNLESS OTHERWISE SHOWN ON THE PLANS, THE FLEXIBLE PAVEMENTS SHALL CONSIST OF AGGREGATE BASE COURSE, TYPE B; BITUMINOUS CONCRETE BINDER COURSE; AND BITUMINOUS CONCRETE SURFACE COURSE; OF THE THICKNESS AND MATERIALS SPECIFIED ON THE PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS. THE PAVING IS TO BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS.
- ALL TRAFFIC SHALL BE KEPT OFF THE COMPLETED AGGREGATE BASE UNTIL THE BINDER COURSE IS LAID. B. AGGREGATE BASE SHALL BE UNIFORMLY PRIME COATED AT A RATE OF 0.4 TO 0.5 GALLONS PER SQUARE YARD PRIOR TO PLACING THE BINDER COURSE. PRIME COAT MATERIALS SHALL BE BITUMINOUS M.C. - 30.
- PRIOR TO PLACEMENT OF THE SURFACE COURSE. THE BINDER COURSE SHALL BE CLEANED, AND TACK COATED IF DUSTY OR DIRTY. ALL DAMAGED AREAS IN THE BINDER, BASE OR CURB SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER PRIOR TO LAYING THE SURFACE COURSE. THE CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND MANPOWER NECESSARY, INCLUDING THE USE OF POWER BROOMS IF REQUIRED BY THE OWNER, TO PREPARE HE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. THE TACK COAT SHALL BE UNIFORMLY APPLIED TO THE BINDER COURSE AT A RATE OF 0.05 TO 0.10 GALLONS PER SQUARE YARD. TACK COAT SHALL BE AS SPECIFIED IN (SSRBC) SECTION 406.02.
- D. SEAMS IN BASE, BINDER AND SURFACE COURSE SHALL BE STAGGERED A MINIMUM OF 6".
- FOR NEW STREETS, THE CONTRACTOR SHALL PERMIT THE BITUMINOUS CONCRETE BINDER COURSE TO WEATHER ONE (1) WINTER SEASON PRIOR TO THE INSTALLATION OF THE BITUMINOUS CONCRETE SURFACE E٠ COURSE UNLESS OTHERWISE SPECIFIED BY THE MUNICIPAL ENGINEER OR OWNER.
- 5. TESTING AND FINAL ACCEPTANCE
- THE CONTRACTOR SHALL FOLLOW THE QUALITY CONTROL TESTING PROGRAM FOR CONCRETE AND PAVEMENT MATERIALS ESTABLISHED BY THE OWNER AND/OR MUNICIPALITY, TESTING SHALL BE DONE IN ACCORD WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS AND THE TESTING REQUIREMENTS OF THE MUNICIPALITY.
- WHEN REQUESTED BY THE OWNER, TEST RESULTS AND DOCUMENTATION FOR THE CONCRETE, BASE COURSE, B۰ BITUMINOUS CONCRETE BINDER, AND/OR SURFACE COURSE, SHALL BE SUBMITTED FOR VERIFICATION.
- PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED, FOR THE PURPOSE OF THICKNESS VERIFICATION.
- WHEN REQUIRED BY THE OWNER OR MUNICIPALITY, THE CONTRACTOR SHALL OBTAIN SPECIMENS OF THE FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE WITH A CORE DRILL WHERE DIRECTED, IN ORDER TO CONFIRM THE PLAN THICKNESS. DEFICIENCIES IN THICKNESS SHALL BE ADJUSTED FOR BY THE METHOD DESCRIBED IN (SSRBC), ART. 407.10.
- FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.

## STORM SEWER NOTES

- 1. GENERAL: A. ALL STORM SEWER PIPE SHALL BE RCP, UNLESS OTHERWISE NOTED ON THE PLANS, IN ACCORDANCE WITH THE FOLLOWING: PLAN CODE: MATERIA
  - RCP: REINFORCED CONCRETE PIPE (ASTM C-76) WITH FLEXIBLE O-RING RUBBER GASKET JOINTS PER ASTM C361, ASTM C-433, AND ASTM C1619; TYPE 1, CLASS IV, PER SSRBC SECTION 603. ELLIPTICAL RCCP PIPE SHALL BE TYPE 1, HE-III PER SSRBC SECTION 511. PRECAST FLARED END SECTIONS MAY HAVE MASTIC JOINTS. PAYMENTS SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF STORM SEWER COMPLETE IN PLACE. DIP: DUCTILE IRON WATERMAIN QUALITY PIPE CLASS 52 (ANSI 21.51) WITH MECHANICAL OR PUSH-ON JOINTS (ANSI 21.11).
  - CEMENT LINING IS NOT REQUIRED. PVC: POLYVINYL CHLORIDE SEWER PIPE, SDR 26, CONFORMING TO ASTM D-3034 WITH ASTM D-3212 PUSH-ON GASKETED JOINTS. HDPE: HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH SMOOTH INTERIOR MEETING AASHTO M-294 SUCH AS ADS N-12 BY ADVANCED DRAINAGE SYSTEM, COLUMBUS, OH: OR HI-Q BY HANCOR, FINDLEY,
- OH, JOINTS SHALL BE SPLIT CORRUGATED BANDS BY THE PIPE MANUFACTURER. UD: RIGID, PERFORATED PVC UNDERDRAIN PIPE (ASTM D-2729), SDR 35, OR SCHEDULE 40, WITH SOLVENT WELD JOINTS AND FILTER FABRIC WRAPPING OR SOCK. PERFORATED HDPE PIPE ALSO ACCEPTABLE
- "BAND SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS. "BAND SEAL", "FERNCO", AND "MISSION" TYPE COUPLINGS SHALL NOT BE USED ON SEWER MAINS. CHANGES IN PIPE MATERIAL SHALL BE MADE AT A STRUCTURE.
- C. ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A LASER INSTRUMENT TO MAINTAIN LINE AND GRADE.
- ALL FOOTING DRAIN AND SUMP PUMP DISCHARGE PIPES SHALL BE CONNECTED TO THE STORM SEWER SYSTEM. THE CONTRACTOR SHALL MAINTAIN AT LEAST THREE (3') FEET OF COVER OVER THE TOP OF SHALLOW PIPES AT
- ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES WHICH HAVE LESS THAN THREE (3') FEET OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.

STORM SEWER NOTES			
<ul> <li>2. BEDDING/BACKFILL:</li> <li>A. ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A GRANULAR BEDDING, 1/4" TO 3/4"         IN SIZE (CA-13) WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT             LESS THAN 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE             COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. BEDDING SHALL EXTEND TO THE SPRINGLINE ON ALL RCP             AND DIP PIPE. BEDDING SHALL EXTEND TO 12" OVER ANY PVC OR HDPE PIPE. COST OF BEDDING SHALL BE CONSIDERED             INCIDENTAL TO THE COST OF PIPE. NO SEPERATE PAYMENT SHALL BE MADE FOR THIS.</li> </ul>			
<ul> <li>B. ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF FIVE (5') FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-7) AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. REFER TO THE TRENCH BACKFILL LIMITS DETAIL.</li> <li>3. STRUCTURES:</li> </ul>			
<ul> <li>MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. MANHOLES AND CATCH BASINS SHALL BE A MINIMUM 4' IN DIAMETER UNLESS OTHERWISE SPECIFIED ON THE PLANS. STRUCTURE JOINTS SHALL BE SEALED WITH O-RING OR BUTYL ROPE.</li> <li>B. A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES.</li> </ul>			<b>ARKS</b>
C. THE FRAME, GRATE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS. D. THE FRAME AND GRATE OR CLOSED LID SHALL BE AS SPECIFIED ON UTILITY PLANS, THE MANHOLE LIDS SHALL BE MACHINE SURFACED, NON-ROCKING DESIGN. ALL CASTINGS SHALL BE EMBOSSED WITH A FISH IMAGE AND "DUMP NO WASTE-DRAINS TO WATERWAYS" MESSAGE. THE CLOSED LIDS SHALL BE EAST JORDAN 1022Z3 AND HAVE THE WORD "STORM" AND "VILLAGE OF ROMEOVILLE" EMBOSSED ON THE LID. THE JOINT BETWEEN CONCRETE SECTION AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND.			TE REM/
<ul> <li>E. A MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT) AND A MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, THE VERY TOP RING SHOULD BE ONE (1) EJW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISER (1" TO 3" MAX HEIGHT)</li> <li>FRENCH DRAIN:</li> </ul>			NO. DA
<ul> <li>A. ALL LOW POINT STORM STRUCTURES ARE TO HAVE FOUR 1" DIAMETER WEEP HOLES PROVIDED 24" BELOW THE TOP OF LID. THE HOLES SHALL BE COVERED WITH A GEOTEXTILE FILTER FABRIC CEMENTED IN PLACE WITH BITUMINOUS MASTIC. THE DRAIN SHALL BE BACKFILLED WITH BEDDING OR CA-7 CRUSHED STONE TO TOP OF SUBGRADE OR BOTTOM OF TOPSOIL.</li> <li>5. CASTINGS:</li> </ul>			
<ul> <li>A. CASTINGS FOR SEWER OR OTHER STRUCTURES SHALL BE AS SPECIFIED ON THE UTILITY PLAN. COST OF CASTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE STRUCTURE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.</li> <li>6. CLEANING:</li> <li>A. THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.</li> </ul>		EOVILLE	
<ul> <li>THE STURM SEWER STSTEM SHALL BE THOROUGHET CLEANED FRIOR TO FINAL INSPECTION AND TESTING.</li> <li>TELEVISING:</li> </ul>		ROM	
WATERMAIN NOTES			
<ol> <li>PIPE MATERIALS:         <ul> <li>WATERMAINS OR SERVICES 3" OR LARGER IN DIAMETER SHALL BE CONSTRUCTED OF BITUMINOUS COATED, CEMENT LINED DUCTILE IRON PIPE, CLASS 52, CONFORMING TO ANSI A-21.50 (AWWA C150) AND ANSI A-21.51 (AWWA C151). CEMENT MORTAR LINING SHALL CONFORM TO ANSI A-21.4 (AWWA C-104). THE JOINTS SHALL BE O-RING GASKETED PUSH-ON OR MECHANICAL JOINTS CONFORMING TO ANSI A-21.11 (AWWA C-111).</li> </ul> </li> <li>FITTINGS:</li> </ol>		18 PER VILLAG	EMARKS
<ul> <li>A. ALL FITTINGS SHALL BE CAST-IRON, WITH MECHANICAL JOINTS AND "MEGALUG" RETAINER GLANDS, AND CEMENT LINED PER ANSI A21.4. COST OF FITTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE PIPE.</li> <li>B. ALL DUCTILE IRON WATERMAIN AND FITTINGS SHALL BE WRAPPED IN 8-MIL POLYETHYLENE WRAP. ALL MECHANICAL JOINT FIT SHALL USE STAINLESS STEEL NUTS AND BOLTS. PAYMENT SHALL BE MADE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT OF WATERMAIN COMPLETE IN PLACE.</li> <li>C. MEGALUGS (EBAA IRON) RESTRAINED JOINTS SHALL BE INSTALLED ON ALL WATER MAINS AT ALL BENDS, TEES, ELBOWS, ETC.</li> </ul>	TINGS	2 07/25/	NO. DATE
<ul> <li>WATER SERVICES:</li> <li>A. WATER SERVICE PIPE, 2" IN DIAMETER OR SMALLER, SHALL BE TYPE K COPPER WATER TUBING, CONFORMING TO ASTM B-88 AND B-251, WITH COMPRESSION OR FLARED JOINTS.</li> <li>4. VALVES:</li> </ul>			
<ul> <li>A. GATE VALVES SHALL BE USED ON ALL WATERMAIN 3" AND LARGER. ALL VALVES SHALL TURN COUNTER- CLOCKWISE TO OPEN. VALVES SHALL BE IRON BODY RESILIENT WEDGE GATE VALVES WITH BRONZE MOUNTED SEATS AND NON-RISING STEMS CONFORMING TO AWWA C-509 AND SHALL BE APPRVED BY THE MUNICIPALITY. THE VALVES SHALL HAVE MECHANICAL JOINTS.</li> <li>B. THE MECHANICAL JOINTS AND ALL EASTENERS ON THE VALVE BODY SHALL HAVE STAINLESS STEEL NUTS AND BOLTS.</li> </ul>		<u>V</u> E	
5. VALVE VAULTS: A. VALVE VAULTS SHALL BE PRECAST CONCRETE STRUCTURES AS NOTED ON THE PLANS. THE FRAME AND LID SHALL BE EAST JORDAN 1022Z3 OR APPROVED EQUAL AND LETTERING ON THE CAST IRON FRAME AND SHALL INDICATE "WATER" AND THE MUNICIPALITY EMBOSSED ON THE LID.		DE DR	, ILLINOIS
6. FIRE HYDRANTS: <ol> <li>FIRE HYDRANTS SHALL CONFORM TO AMERICAN WATER WORKS ASSOCIATION (AWWA)</li> <li>STANDARD NO. C-502, LATEST REVISION, AND SHALL BE A MODEL SHOWN ON THE PLANS AND APPROVED BY THE MUNICIPALITY. FIRE HYDRANTS SHALL BE INSTALLED WITH AN AUXILIARY VALVE AND CAST IRON VALVE BOX.</li> <li>THE PUMPER CONNECTION SHALL FACE ROADWAY. THE FIRE HYDRANTS SHALL BE PAINTED PER THE MUNICIPALITY.</li> <li>THE VALVE BOX LID SHALL HAVE THE WORD "WATER" EMBOSSED ON THE LID. SEE FIRE HYDRANT DETAIL ON DETAIL</li> </ol>			MEOVILLE
<ul> <li>B. PROVIDE THE RODS FROM THE MAINLINE TEE TO THE AUXILIARY VALVE, AND BETWEEN THE AUXILIARY VALVE AND HYDRANT BARREL WHERE NOT BOLTED TOGETHER.</li> <li>C. THE BREAK FLANGE AND ALL BELOW GRADE FITTINGS SHALL HAVE STAINLESS STEEL NUTS AND BOLTS.</li> </ul>		1315	ROI
<ul> <li>A. CORPORATION STOPS SHALL BE BRONZE BODY KEY STOPS CONFORMING TO AWWA C-800, AND SHALL INCLUDE "J" BEND, TAIL PIECE, AND COMPRESSION FITTINGS. SIZE AND LOCATION AS SHOWN ON PLANS.</li> <li>B. TAPPING SADDLES SPECIFICALLY DESIGNED FOR USE WITH PVC PIPE SHALL BE IN CONJUCTION WITH THE CORPORATION STOP.</li> </ul>			
8. SERVICE BUX: A. PROVIDE CURB VALVE AND CURB BOX AS INDICATED ON THE PLANS. BOX SHALL BE EXTENSION TYPE WITH EDDT PIECE AND STATIONARY RODS FOR SIX (6') FEET OF BURY.			
B. MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURER'S CURRENT RECOMMENDATIONS AND AWWA SPECIFICATIONS.		EERS	
<ul> <li>BEDDING/BACKFILL:</li> <li>A. ALL DUCTILE IRON WATERMAIN SHALL HAVE COARSE SAND BEDDING EXTENDED TO AT LEAST SIX INCHES (6") ABOVE THE TOP OF THE PIPE. COST OF BEDDING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THIS PIPE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS ITEM.</li> </ul>	IGINEERS	INT ENGIN RS (, Suite 700 Ilinois 60018	7) 696-4065
<ul> <li>B. GRANDLAR BEDDING MATERIAL OR GRANDLAR BACKFILL MATERIAL SHALL BE CAREFULLY PLACED TO 12 OVER THE TOP OF THE PIPE BEFORE FINAL BACKFILLING AND COMPACTION.</li> <li>C. A MINIMUM DEPTH OF COVER OF 5'-6" SHALL BE MAINTAINED OVER THE WATER LINES. THE MAXIMUM COVER SHALL BE EIGHT (8') FEET EXCEPT AT SPECIAL CROSSINGS.</li> <li>D. CONCRETE TURNET BLOCKING CUALL BE INSTALLED ON WATERDAIN AT ALL BENDES. THE DAWS FIG</li> </ul>	ULTING EN	EVELOPME SURVEYO ggins Road Rosemont, I	60 Fax: (84
<ul> <li>E. ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF FIVE (5') FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-7) AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. REFER TO THE TRENCH BACKFILL LIMITS DETAIL.</li> <li>10. IEPA WATERMAIN PROTECTION:</li> </ul>	CONS	SITE D LAND 9575 W. H	ne: (847) 696-40
<ul> <li>a. HORIZONTAL SEPARATION</li> <li>a) WATERMAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER OR SEWER SERVICES CONNECTION.</li> <li>b) WATERMAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:         <ol> <li>1) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET;</li> <li>2) THE WATERMAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND</li> <li>3) THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED</li> </ol> </li> </ul>			Pho
EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER. c) BOTH THE WATERMAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN IT IS IMPOSSIBLE TO MEET (a) OR (b) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING. B. VERTICAL SEPARATION		1	
<ul> <li>a WATERMAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATERMAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATERMAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATERMAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CONSTRUCTED WITH JOINTS EQUIDISTANCE FROM THE SEWER OR DRAIN.</li> <li>b) BOTH THE WATERMAINS AND SEWER SHALL BE CONSTRUCTED WITH PIPE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION WHEN:</li> </ul>	SF FIL 102	ACECO IN ENAME: 202SPEC	C.
<ul> <li>a) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (a) ABOVE; OR</li> <li>b) THE WATERMAIN PASSES UNDER A SEWER OR DRAIN.</li> <li>c) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATERMAIN SHALL BE MAINTAINED WHERE A WATERMAIN CROSSES UNDER SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN.</li> <li>d) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FORM THE</li> </ul>	DA 06	TE: /22/18	
WATERMAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.	JO 102	B NO. 202	
<ul> <li>A. ALL WATERMAINS SHALL BE PRESSURE TESTED, FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA AND MUNICIPAL SPECIFICATIONS. EACH VALVE SECTION SHALL BE PRESSURE TESTED FOR A MINIMUM OF 4 HOURS. ALLOWABLE LEAKAGE IS TO BE ONLY THAT WHICH IS PREDETERMINED BY THE STANDARD SPECIFICATIONS FOR SEWER AND WATERMAIN CONSTRUCTION IN ILLINOIS. AT NO TIME IS THERE TO BE ANY VISIBLE LEAKAGE FROM THE MAIN.</li> <li>B. CONTRACTOR IS RESPONSIBLE FOR PRESSURE TESTING AGAINST FXISTING WATER VALVES.</li> </ul>	SF	<b>SP1</b>	

![](_page_11_Figure_0.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_12_Picture_1.jpeg)

![](_page_13_Figure_0.jpeg)

2) ALL VAULT FRAMES SHALL BE EAST JORDAN #1022Z3 AND COVERS SHALL BE EAST JORDAN #1020A HD EMBOSSED WITH "WATER" AND "VILLAGE OF ROMEOVILLE". 3) ALL JOINTS NEED TO BE EXTERNALLLY WRAPPED WITH MACWRAP BRAND OR VILLAGE APPROVED EQUAL. 4) RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE VAULT STRUCTURE WALLS. 5) INTERAL/EXTERNAL CHIMNEY SEALS ARE REQUIRED FOR ALL VAULTS 6) MINIMUM OF TWO ADJUSTING RINGS (MIN 6" ADJUSTIN HEIGHT) AND A MAXIMUM OF THREE RINGS (MAX 10" ADJUSTING HEIGHT). NO 1" OR 2" CONCRETE RINGS ARE ALLOWED. UNDER PAVED AREAS, THE VERY TOP RING SHOULD BE ONE(1) EJIW INFRA-RISER RUBBER COMPOSITE ADJUSTMENT RISER (1" TO 3" MAX HEIGHT)

![](_page_13_Figure_2.jpeg)

![](_page_13_Figure_4.jpeg)

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![](_page_13_Picture_5.jpeg)

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![](_page_14_Figure_1.jpeg)

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![](_page_15_Figure_0.jpeg)

## PLANT LIST

### <u>Qtv. Common Name</u>

- Marmo Maple State Street Miyabe Maple
- Chicagoland Hackberry
- Princeton Sentry Ginkgo Espresso Kentucky Coffee Tree Gymnoclad
- Triumph Elm
- Royal Raindrops Crabapple Ivory Silk Japanese Tree Lilac Syringa reti
- Norway Spruce
- Black Hills Spruce Little Lime Hydrangea
- Green Gem Boxwood 19 Miss Kim Lilac
- 36 Blue Muffin Viburnum

*

65

(22) 30" VDBM

	Botanical Name	<u>Size</u> F	<u>temarks</u>	<u>Code</u>
	Acer freemanii 'Marmo'	2 ½"	B&B	AFM
	Acer miyabei 'Morton'	2 1/2"	B&B	AMM
	Celtis occidentalis 'Chicagoland'	2 1/2"	B&B	COC
	Ginkgo biloba 'Princeton Sentry'	2 1/2"	B&B	GBPS
e	Gymnocladus dioica 'Espresso'	2 1/2"	B&B	GDE
	Ulmus 'Morton Glossy'	2 1/2"	B&B	UMG
	Malus 'Roval Raindrops'	6'	B&B	MRR
	Syringa reticulata 'Ivory Silk'	6'	B&B	SRIS
	Picea abies	6'	B&B	PA
	Picea glauca 'Densata'	6'	B&B	PGD
	Hydrangea paniculata 'Jane'	18"-24"	Cont.	HPJ
	Buxus 'Green Gem'	18"-24'	Cont.	BGG
	Svringa patula 'Miss Kim'	18"-24"	Cont.	SPMK
	Viburnum dentatum 'Blue Muffin'	30"	Cont.	VDBM

2)

3)

4)

5)

10)

The Contractor shall provide and install all plant materials in quantities sufficient to complete planting shown on the drawing. All plants shall comply with the requirements of the current American Standard for Nursery Stock, published by the American Nursery and Landscape Association. Plants shall meet size, genus species and variety and be in good health, free of insects, diseases or defects. No "park grade" material shall be accepted. Trees not exhibiting a central (or single) leader will be rejected unless called out in the plant list as multi-stern. Quantity lists are supplied as a convenience. The Contractor shall verify all quantities and, in case of a discrepancy, the plan shall prevail. No plants are to be changed or substituted without approval from a representative of James Dowden & Associates, Inc.

All plants shall be watered during the first 24-hour period after installation. A watering schedule must be agreed upon with the Owner, before plantings are installed, of whom, when and how plant materials are to be properly watered. The Contractor is responsible for site visits to ensure the proper watering is being done for establishment and health of all plant materials.

Plants shall be balled and burlapped unless otherwise noted on the landscape plan. Not root bound material shall be accepted and all wrapping materials made of synthetics or plastics shall be removed at the time of planting. It is the Contractor's option to roll back burlap from the top of the root ball.

Recommended mulch depth is 4" of shredded hardwood bark. The Contractor shall avoid over mulching and the creation of "mulch volcanoes". Mulch beds shall extend a minimum of two feet beyond the center of a tree or shrub. Mulch must be pulled at least two inches from the base of a tree so the base of the trunk and root crown are exposed.

Prepare perennial beds with one cubic yard of garden compost per 100 sf. The compost shall be rototilled to an 8" depth.

All plants shall be set plumb. It is the Contractor's option to stake deciduous trees but it is also the Contractor's responsibility to ensure plants remain plumb until the end of the guarantee period. All deciduous trees shall be wrapped with an approved tree wrap to prevent winter damage. The Contractor shall remove all tree wrap following the first winter. All shade trees with mature canopies that will overhang the playground shall be maintained so the lowest branches are no less than 7' above grade.

7) Trees shall be installed a minimum of five (5) feet horizontally from underground electrical feeders, sanitary sewers, sanitary services, water mains, and wat services. Trees shall be installed a minimum of ten (10) feet horizontally from utility structures and appurtenances, including, but not limited to, manholes, valve vaults, and valve boxes. Shade trees shall be a minimum of ten (10) feet from all light poles and driveways and all shrubs shall be a minimum of 3'-5' from all fire hydrants.

8) The Contractor shall locate the existence of all underground utilities prior to starting work. The Contractor must also keep the pavement and work areas in neat and orderly condition throughout the construction process. The Contractor shall acquaint himself with, and verify, working conditions in advance of submitting a proposal. Failure to recognize inherent responsibilities does not relieve the Contractor of his obligations due to miscalculations.

Any proposed changes to the approved landscape plan, such as species substitutions, shall be submitted to the Village for review and approval. 9)

Property owners shall be responsible for maintaining all landscaping shown on the approved plans throughout the life of the development.

![](_page_15_Figure_33.jpeg)

**DS-75 EROSION CONTROL BLANKET** NOT TO SCALE

## PREMIUM BLUEGRASS MIX 4-5 LBS PER 1,000 SF

20% MIDNIGHT KENTUCKY BLUEGRASS 20% DENIM KENTUCKY BLUEGRASS 20% LANGARA KENTUCKY BLUEGRASS 20% BLUESTAR KENTUCKY BLUEGRASS **10% PRIZM PERENNIAL RYEGRASS 10% SUNSHINE PERENNIAL RYEGRASS** 

5 andscape 15, Dowden 6 <u></u> P.O.B Q Ш D 0 0 J R 0 0 S 2 Q Z T R LAKESIDE EOVILLE, Ш N Date 06.25.18 Scale 1"=20' Drawn CJD Sheet L – 1.0

REVISIONS

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+	+	*	*	*	*	*- \$	<u>*</u>	+-																						+			+	+	+	- +-		E2		+	+-	· _	+		+	+	+						+
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⁺ 0.3	⁺ 0.5	⁺ 0.8	⁺ 1.2	⁺ 1.7	⁺ 2.2	⁺ 2.5	⁺ 2.9	) ⁺ 2.	6 ⁺ 0	0.0	⁺ 0.0	⁺ 0.0	⁺ 0.0	) ⁺ 0.(	) ⁺ C	).0 +	J.O	⁺ 0.0	⁺ 0.0	، ⁺ 0	.0 +	0.0	⁺ 0.0	+0.0	0 +	0.0	⁺ 0.0	⁺ 0.0	⁺ 0.	0 ⁺ 1	1.7	1.8	⁺ 1.8	⁺ 1.5	5 ⁺ 1.6	6 ⁺ 1	.5 +	1.5	⁺ 1.5	⁺ 1.2	+ <b>0</b> .	8 \^0	.6 +	0.2	⁺ 0.3	+0.4	⁺ 0.5	+0.5	5 ⁺ 0.	5 ⁺ 0	.5 +0	).5 +	⁺ 0.4
⁺ 0.3	⁺ 0.5	⁺ 0.7	⁺ 1.0	⁺ 1.3	⁺ 1.6	⁺ 1.9	⁺ 2.1	⁺ 2.	0 ⁺ 0	).7	⁺ 0.0	⁺ 0.0	⁺ 0.0	) +0.0	) ⁺ 0	).0 +	J.O	⁺ 0.0	⁺ 0.0	) ⁺ 0	.0 +	0.0	⁺ 0.0	⁺ 0.0	0 ⁺ (	0.0	⁺ 0.0	⁺ 0.0	⁺ 0.	0 ⁺ 1	1.2	1.2	⁺ 1.3	⁺ 1.2	? ⁺ 1.′	1 ⁺ 1	.0 +	0.9	⁺ 0.8	⁺ 0.6	+0,	4 0	.3 +	0.2	⁺ 0.2	⁺ 0.3	⁺ 0.3	+0.4	4 ⁺ 0.	.4 ⁺ 0	·.3 ⁺ (	).3 +	+0.2
⁺ 0.3	+ 0.4	+0.6	+0 <u>8</u>	⁺ 1.0	⁺ 1.2	+14	⁺ 1.4	+ ⁺ 1.4	4 +0	).9	+0.0		+0.0	) ⁺ 0.0		0.0	0.0	+0.0	+0.C	, ) ⁺ 0	.0 +	0.0	+ 0.0		) ⁺	0.0	+ 0.0	+0.0	+0.	 0 ⁺ 0	).8	0.8	+0.9	+0.8		 8 ⁺ 0	.7 +	0.6	⁺ 0.5	+0.4	+0.	- 3 +0	.2 +	0.2	⁺ 0.2	+0.2	+0-2	+0.2	2 ⁺ 0.	 .2 ⁺ 0	).2 +(	).2 ¹	_  ⁺ 0.1
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![](_page_16_Figure_1.jpeg)

PHOTOMETRIC PLAN Scale: 1" = 20'-0" 

## I I IMAIRE SCHEDI II E

L	JIVIAIRE SCHEDULE						
TAG	MFG/CAT #	LAMP	COLOR	MTG HT	LUMENS	WATTS	REMARKS
Е	LITHONIA #DSX1LED P8 50K T3M MVOLT	LED	5000k	24'-0" AFG	24,575	207	TYPE 3 LED SHOEBOX
E1	LITHONIA #DSX1LED P5 50K T4M MVOLT	LED	5000k	24'-0"AFG	24,041	207	TYPE 4 LED SHOEBOX
E2	LITHONIA #DSX1LED P5 50K T4M MVOLT	LED	5000k	27'-6"AFG	24,041	207	TYPE 4 LED SHOEBOX

		PI	HOTOME	T	RIC DA	ТА		
NORTH PAR	(IN)	G AREA	SOUTH PARK	INC	G AREA	TRUCK AREA	١	
AVERAGE	-	3.1 fc	AVERAGE	-	2.8 fc	AVERAGE	-	2.4 fc
MAXIMUM	-	6.7 fc	MAXIMUM	-	4.6 fc	MAXIMUM	-	6.5 fc
MINIMUM	-	0.8 fc	MINIMUM	-	1.6 fc	MINIMUM	-	0.4 fc
MAX/MIN	-	8.4:1	MAX/MIN	-	2.9:1	MAX/MIN	-	16.3:1
AVG/MIN	-	3.9:1	AVG/MIN	-	1.8:1	AVG/MIN	-	6.0:1

6'-0" INSTALL (4) #4 REBARS WITH #3 TIES 24" ON CENTER. ATTACH TO ANCHOR BOLTS.

COMMERCIAL/INDUSTRIAL 347 Sola Drive, Gilberts, IL 60136
(847) 836-7321 tax (847) 836-7625
e <b>Transportation</b>
<b>Interland</b> 1305 Lakeside Driv Romeoville, Illinois
PROJECT NO - DRAWN BY KAD CHECKED BY KAD DRAWING SCALE AS NOTED SHEET TITLE PHOTOMETRIC PLAN
sheet no E001

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EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD         DSX1LED       Color temperature       Distribution       Voltage       Mounting         DSX1 LED       Forward optics       30K       3000 K       TIS       Type I short       TSS       Type V wide       208*         DSX1 LED       P1       P4       P7       P2       PS       P8       S0K       5000 K       TIS       Type I Inedium       TSS       Type V wide       208*       208*       PA       Square pole mounting         P3       P6       P9       AMBPC Amber phosphor       T3S       Type II medium       T3M       T3M       Type II medium       T3M       207*       347.5%       SPUMBA       Square pole mounting adaptor 7         P10'       P12'       P11'       P13'       P13'       FTM       Fype V very short       ECC 0       Right comer       Right comer         cutoff ²³ P10'       P12'       F11'       P13'       TSK'       Type V very short       RCC 0       Right comer       Shipped separately	EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA DDBXD         DSX1LED       Series       LEDs       Color temperature       Pistribution       Voltage       Mounting         DSX1 LED       Forward optics       30K       3000 K       11S       Type I short       TSS       Type V wide       208*         P1       P4       P7       50K       5000 K       11S       Type I short       TSS       Type V wide       208*       Space included       SPA       Square pole mounting         P3       P6       P9       AMBPC       Amber phosphor       T3S       Type II medium       TSV       Type V wide       208*       SPA       Space included       SPA       Space pole mounting       WBA       Wall bracket       SpUMBA       Spumerature       SpUMBA       Spumerature       WBA       Wall bracket       SpUMBA       Spumerature       SpUMBA       Spuare pole universal mounting adaptor ⁷ P10'       P12'       P10'       P12'       P11'       P13'       TSV       Type V very short       TSV       Spue V very short       CCO       Left ormer cutoff ²³ Stipped separately       Shipped separ	D A Handhole Template #8 Top of Pole 0.563" 0.400" (2 PLCS)
Control options       Other options       Finish creatured         Shipped installed       PERS       NikMA tvist-lok creceptate only (controls ordered separate) %       PRHTFC3V       Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{11,41} Shipped installed       HS       House-slote shield *       BLSD       Bit person         DMG       0-10V dimming extend out back of honsing for external control (leads exit fixture)       BLSD       Bit-level switched dimming, 30% 10.3       Shipped installed       HS       House-slote slote slote slote *       BLSD       BlsDD       Bit-level switched dimming, 30% 10.3       Shipped installed       BLSD       BlsDD       Bit-level switched dimming, 30% 10.3       Shipped installed       MS       Shipped installed       BlsDD       BlsDD       Bit-level switched dimming, 30% 10.3       Single fuse (120, 27), 347/ 1 ^s DP       Double fuse (208, 204, 480/ 1 ^s )       DWHXD       Natural aluminum       DWHXD       NHTDD3       Part night, dim 5 his ¹⁶ PMITD3       Part night, dim 6 his ¹⁶ PMITD3       Part night, dim 6 his ¹⁶ PMITD3       Part night, dim 6 his ¹⁶ PMITD3       Part night, dim 7 his ¹⁶ PMITD3       PAIT night, dim 7	Control options       Other options       Finish (required)         Shipped installed       PER       NEMA twist-lock receptade only (controls ordered separate) %       Bit Received with the dimining 30% 13%       Shipped installed       Shipped installed       Bit Rose-side shield %       Bit Rose-side shield %       Shipped installed       DOB XD       Bit Rose-side shield %       Bit Rose-side shield %       Shipped installed       DOB XD       Bit Rose-side shield %       DOB XD       Bit Rose-side shield %       Shipped installed       DOB XD       Bit Rose-side shield %       DOB XD       DoB XD       DOB XD       Bit Rose-side shield %       DOB XD	Photometric Diagrams
Performance Data         Lumen Output         Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.         Forward Optics         LED Count       Drive       Power       System       Dist.       30(K       40(K       50(K       AMBPC         LED Count       Drive       Power       System       Dist.       (3000 K, 70 (RI))       (4000 K, 70 (RI))       (5000 K, 70 (RI))	Performance Data         Lumen Output         Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.         Forward Optics         Offer the configuration of the configuratic of the configuration of the configur	Performance Data         Lumen Output         Lumen values are from photometric tests performed in accordance wir         Facts. Contact factory for performance data on any configurations         Rotated Optics         LED Count       Drive       Power       System       Dist.
National View	Current         Package         Watts         Type         lumens         B         U         G         LW         Lumens         B         U         G         LW         Lumens         B         U         G         LW           N         T1S         T7,654         3         0         3         0         3         117         19,238         3         0         3         118         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C         C	60         530         P10         106W         115         125         126         135         135         135         135         135         136         144         144         144         145         155         155         155         155         155         155W         155W         15W         15W </th
30         700         P2         700         P2         115         8,249         2         0         2         117         8,999         2         0         2         127         8,999         2         0         2         127         8,999         2         0         2         128         4,777         1         0         1         67           72M         8,280         2         0         2         127         8,989         2         0         2         128         4,777         1         0         1         67           72M         8,283         2         0         2         127         9,986         2         0         2         127         9,086         2         0         2         128         4,774         1         0         1         67           73M         8,263         2         0         2         127         9,014         2         0         2         128         4,724         1         0         2         69           74M         8,263         2         0         2         118         8,901         2         0         2         128         9,636         3 <th>40         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100       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30       1400       P5       138       14,274       3       0       3       103       15,377       3       0       3       111       15,572       3       0       3       113             138       14,704       2       0       3       107       15,840       3       0       3       115       16,040       3       0       3       116             148       14,384       2       0       3       104       15,496       3       0       3       116               148       14,384       2       0       3       106       15,830       3       0       3       116                111       16,444       4       0       1       1121             10       3       103       15,257       4       0       3       110       16,632       4       0       3       120	One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • www.lithonia.com       DSX1-LED         © 2011-2017 Acuity Brands Lighting, Inc. All rights reserved.       Rev. 10/25/17         Page 5 of 7       Page 5 of 7	One Lithonia V © 2011-2017 Act

|            | 12 Require<br>13 Referer<br>14 Referer<br>15 Not ava<br>16 Not ava<br>17 Not ava<br>18 Not ava<br>18 Not ava<br>19 Require<br>20 For retr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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25,075           24,631           25,075           24,631           25,075           24,631           25,075           24,631           25,075           24,631           25,075           24,631           25,187           25,187           25,187           25,187           25,187           25,187           27,696           26,783           27,696           26,783           27,805	4         3           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4         4           4   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    I           I         I           I         I           I         I           I         I           I         I           I         I           I         I</td> <td>Hur         E           Image: Image of the state o</td> <td>-4</td> <td>owed by Li (A Lunces 7,167 7,263 7,424 7,387 7,203 7,424 7,387 7,263 7,424 7,387 7,263 7,724 7,263 7,424 7,387 7,263 7,724 7,263 7,724 7,263 7,724 7,263 7,222 9,273 9,072 9,273 9,277 9,072 9,273 9,277 9,243 9,265 9,395 </td> <td>ighting ighting ightin</td> <td>AMBPC osphor Co U 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Image: Control of the second secon</td> <td>DSX1-L Rev. 10/25 Page 2 d Page 2 d Page 2 d C C C C C C C C C C C C C C C C C C C</td>	ations show           ations	I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I           I         I         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