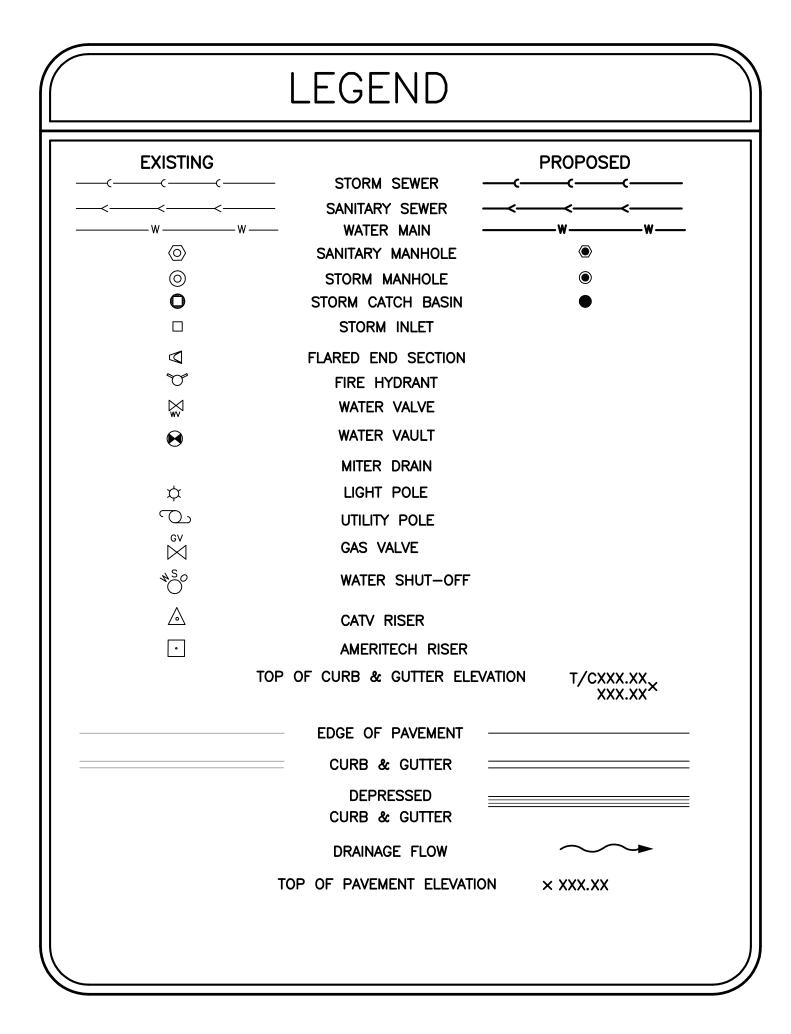
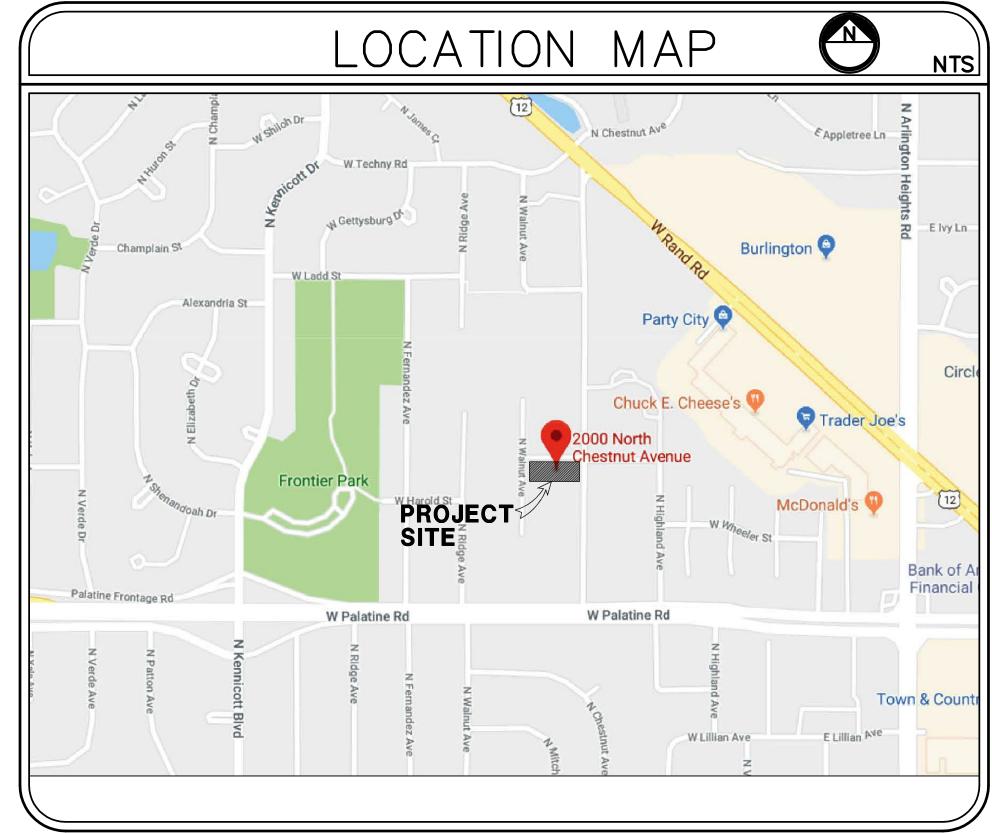
# THE LASALLE ESTATES SUBDIVISION

# WEST LASALLE STREET ARLINGTON HEIGHTS, ILLINOIS

2019



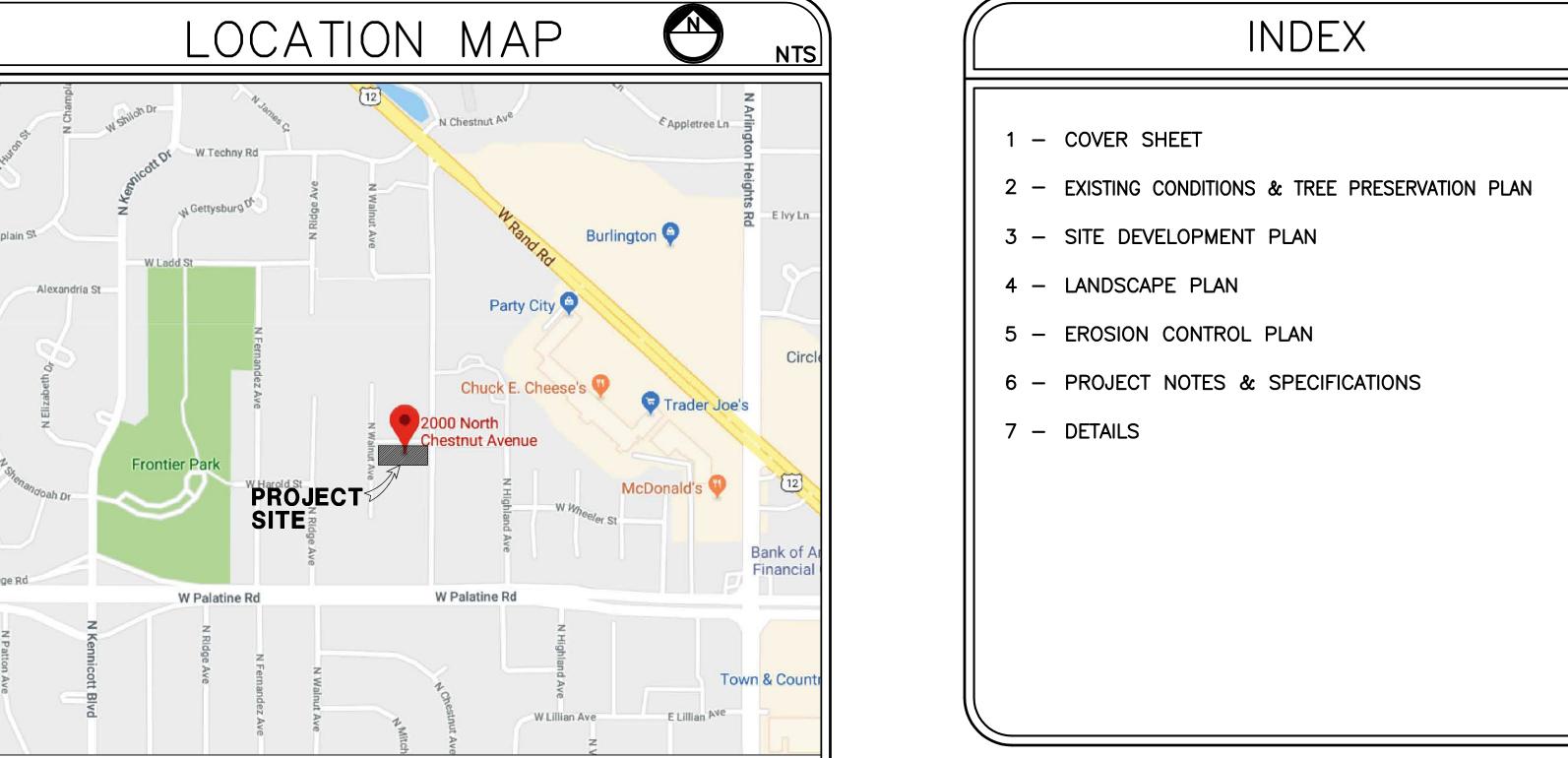


COOK COUNTY, SECTION 18, TOWNSHIP 42 N, RANGE 11 E

SITE BENCHMARK: NORTHERLY BONNET BOLT ON FIRE HYDRANT LOCATED APPROX. 20.7' SOUTHWEST OF THE NORTHWEST CORNER OF THE SUBJECT PROPERTYLINE.

ELEVATION=719.90 (NAVD 88)

THE CONTRACTOR MUST CALL DIGGER FOR THE LOCATION AND STAKING OF EXISTING UNDERGROUND UTILITIES (GAS, ELECTRIC, TELEPHONE, ETC.) AT 1-312-742-9070 48 HOURS PRIOR TO CONSTRUCTION.



CONTRACTOR MUST VERIFY LOCATIONS, DEPTHS, MATERIALS AND POTENTIAL CONFLICTS PRIOR TO BIDDING AND CONSTRUCTING THE PROPOSED IMPROVEMENTS. SUCH VERIFICATION SHALL ALSO INCLUDE FACILITIES OWNED AND OPERATED BY VARIOUS UTILITY COMPANIES.

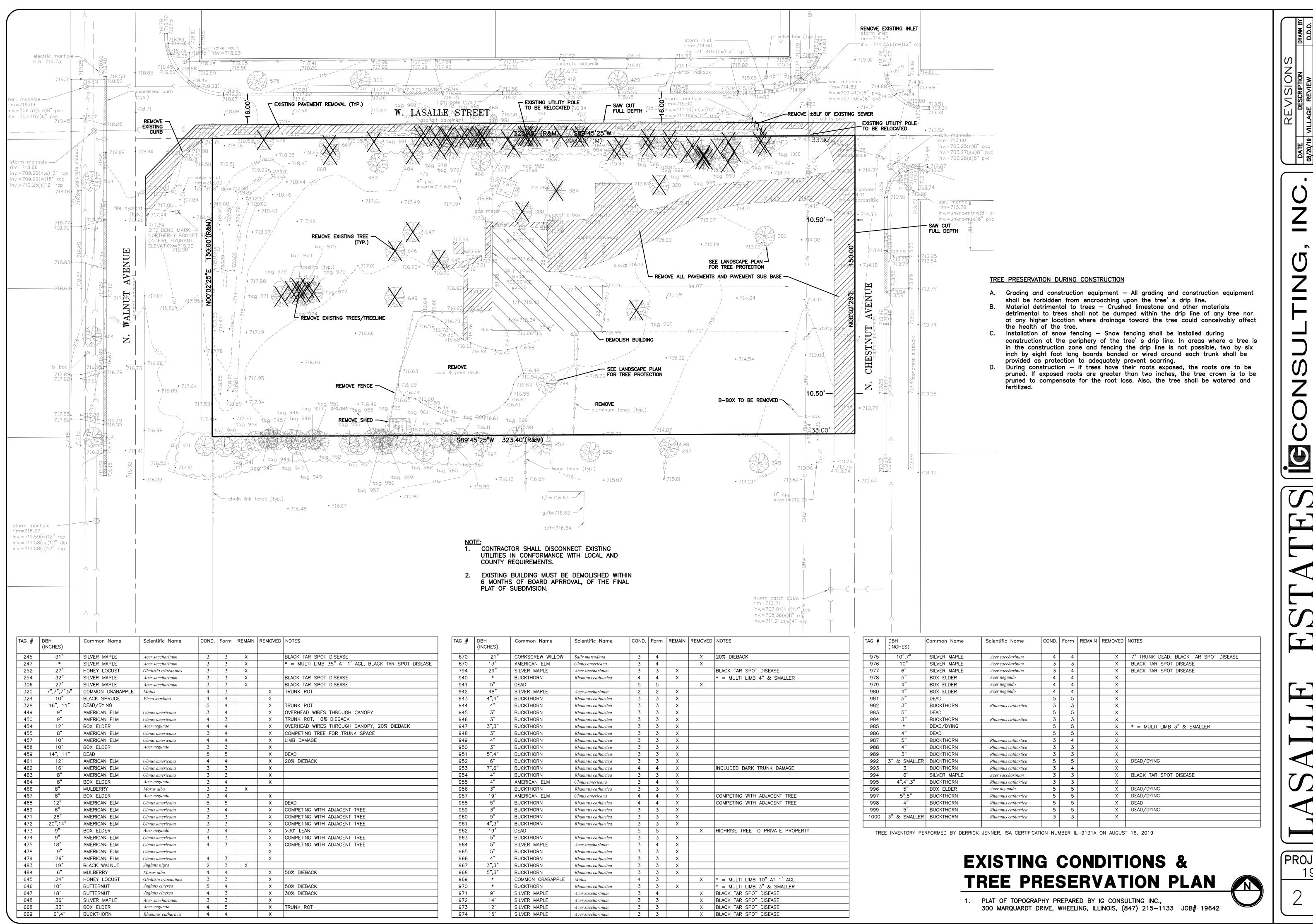
ALL ROADWAY CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ALL AMENDMENTS THERETO AS ADOPTED BY THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION (I.D.O.T.)

STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (STANDARD SPECIFICATIONS). LATEST ISSUE

		DRAWN BY	D.D.D.				
	REVISIONS	DESCRIPTION	08/20/19 VILLAGE REVIEW				
		DATE	08/20/19				

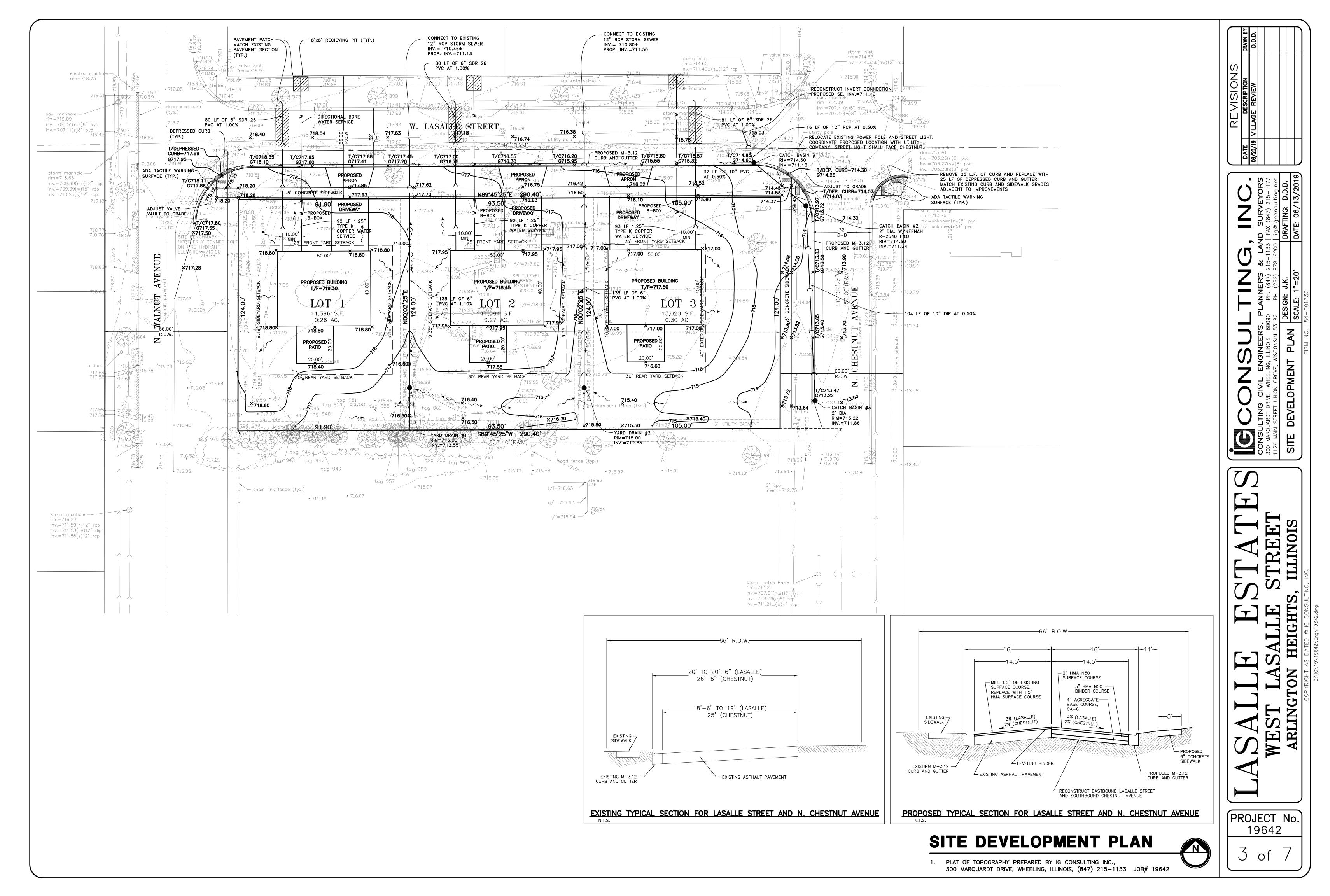
PROJECT No. 19642

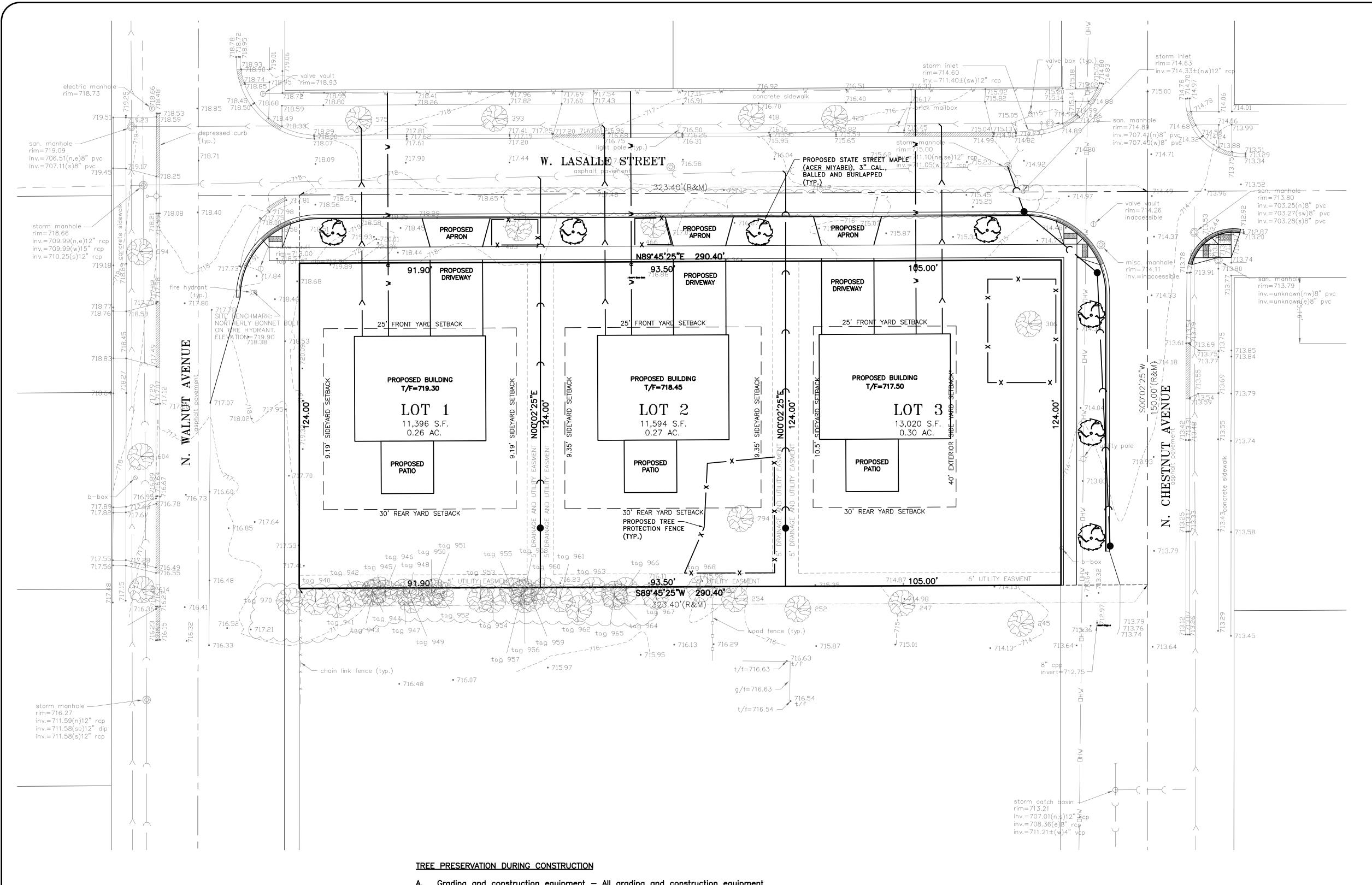
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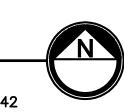




- A. Grading and construction equipment All grading and construction equipment shall be forbidden from encroaching upon the tree's drip line.
- B. Material detrimental to trees Crushed limestone and other materials detrimental to trees shall not be dumped within the drip line of any tree nor
- detrimental to trees shall not be dumped within the drip line of any tree nor at any higher location where drainage toward the tree could conceivably affect the health of the tree.
- C. Installation of snow fencing Snow fencing shall be installed during construction at the periphery of the tree's drip line. In areas where a tree is in the construction zone and fencing the drip line is not possible, two by six inch by eight foot long boards banded or wired around each trunk shall be provided as protection to adequately prevent scarring.
- During construction If trees have their roots exposed, the roots are to be pruned. If exposed roots are greater than two inches, the tree crown is to be pruned to compensate for the root loss. Also, the tree shall be watered and fertilized.

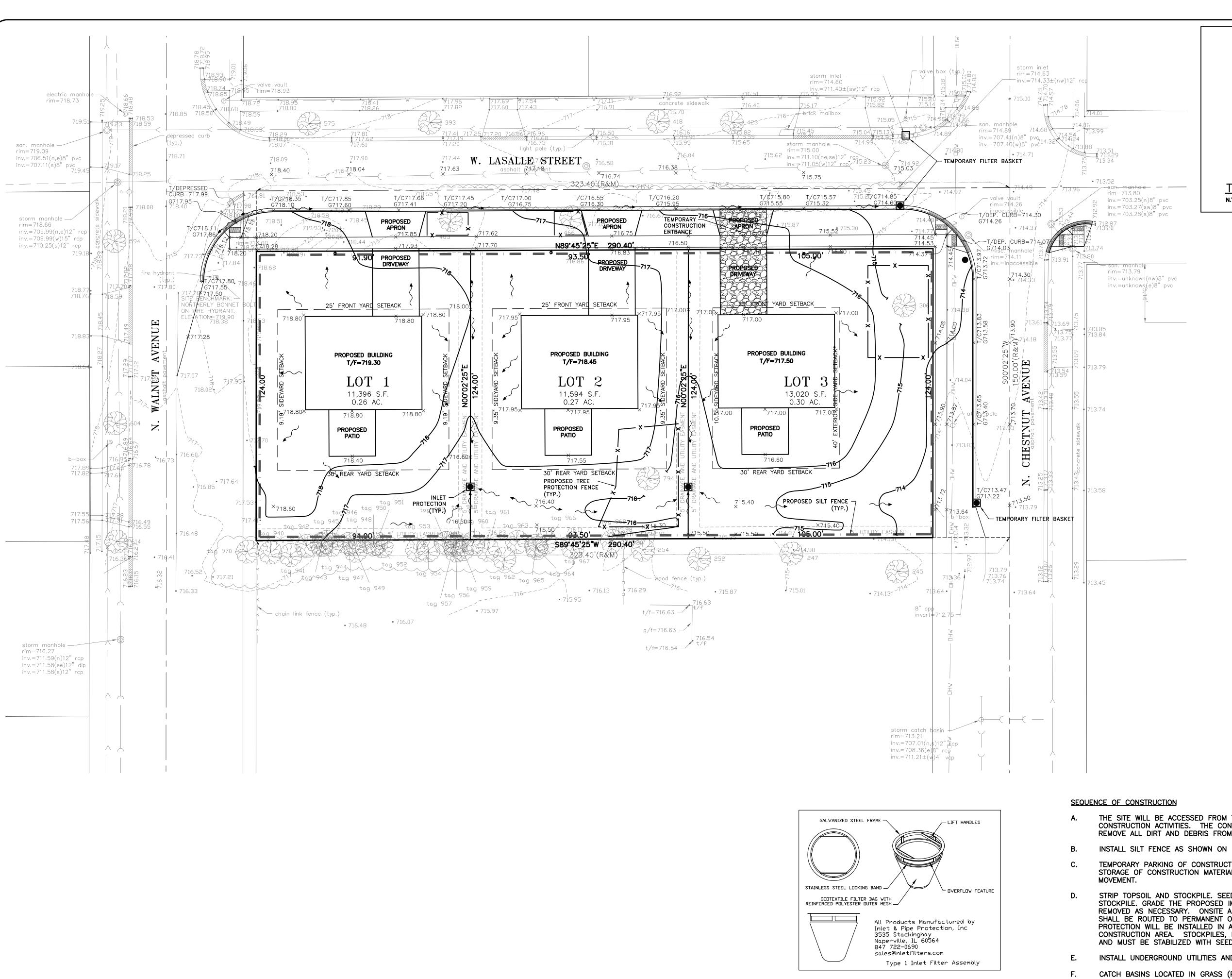
## LANDSCAPE PLAN

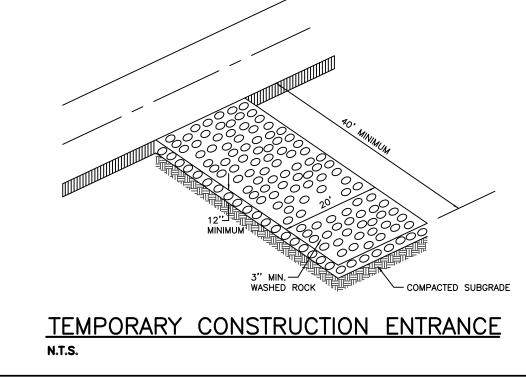
1. PLAT OF TOPOGRAPHY PREPARED BY IG CONSULTING INC., 300 MARQUARDT DRIVE, WHEELING, ILLINOIS, (847) 215-1133 JOB# 19642

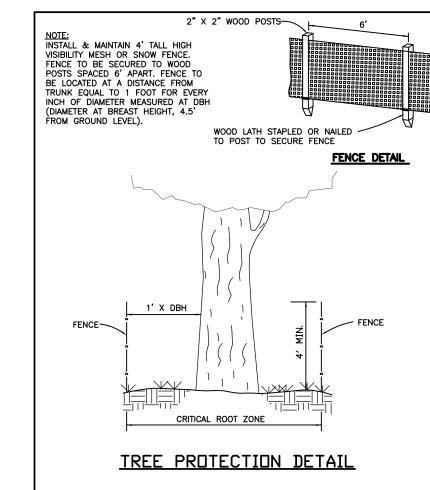


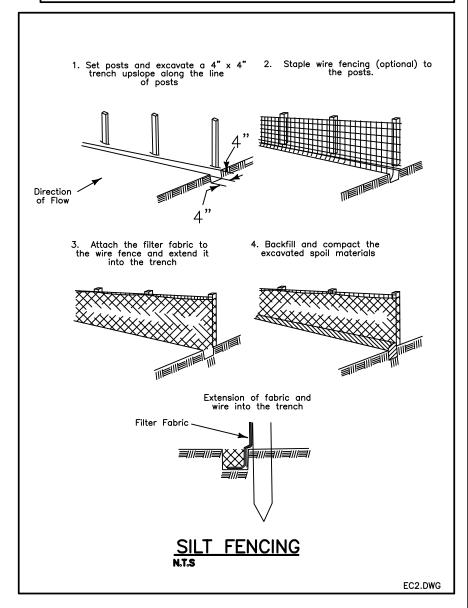
PROJECT No.

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- THE SITE WILL BE ACCESSED FROM THE LOCATIONS INDICATED ON THIS PLAN, FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION TO REMOVE ALL DIRT AND DEBRIS FROM RIDGE AVENUE DURING THE COURSE OF CONSTRUCTION.
- INSTALL SILT FENCE AS SHOWN ON PLAN. INSTALL TEMPORARY CONSTRUCTION ENTRANCE.
- TEMPORARY PARKING OF CONSTRUCTION VEHICLES SHALL BE ON SITE, ONLY AS NECESSARY. STORAGE OF CONSTRUCTION MATERIALS WILL BE ONSITE AND SHALL NOT OBSTRUCT VEHICLE
- STRIP TOPSOIL AND STOCKPILE. SEED AND STABILIZE STOCKPILE IMMEDIATELY UPON COMPLETION OF STOCKPILE. GRADE THE PROPOSED IMPROVEMENT AREAS. EXCESS SOIL OVERBURDEN SHALL BE REMOVED AS NECESSARY. ONSITE AND OFFSITE DRAINAGE SHALL NOT BE BLOCKED. DRAINAGE SHALL BE ROUTED TO PERMANENT OR TEMPORARY SWALES DURING CONSTRUCTION. INLET PROTECTION WILL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASINS SURROUNDING THE CONSTRUCTION AREA. STOCKPILES, IF ANY, SHALL BE PROTECTED WITH PERIMETER SILT FENCING AND MUST BE STABILIZED WITH SEEDING.
- INSTALL UNDERGROUND UTILITIES AND FRANCHISE UTILITIES. CONSTRUCT PAVEMENT AND WALKS.
- CATCH BASINS LOCATED IN GRASS (PERVIOUS) AREAS SHALL HAVE TEMPORARY FILTER BASKETS AND/OR SILT FENCE (INLET PROTECTION) SURROUNDING EACH INLET. SEE DETAIL.

## **EROSION CONTROL PLAN**

1. PLAT OF TOPOGRAPHY PREPARED BY IG CONSULTING INC., 300 MARQUARDT DRIVE, WHEELING, ILLINOIS, (847) 215-1133 JOB# 19642



PROJECT 19642

of

### **GENERAL**

- CONTRACT DOCUMENTS AS REFERRED TO HEREIN INCLUDE THE CONSTRUCTION CONTRACT. PLANS. SPECIFICATIONS. APPROVED SHOP DRAWINGS. CHANGE ORDERS. AND ANY OTHER DOCUMENTS IDENTIFIED IN THE AGREEMENT BETWEEN OWNER AND
- UNLESS MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK PROPOSED HEREIN SHALL COMPLY WITH THE FOLLOWING:

  A. ALL ROADWAY CONSTRUCTION SHALL CONFORM TO THE MOST CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED
- JANUARY 1, 1997, AND ALL AMENDMENTS THERETO AS ADOPTED BY THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION (I.D.O.T.) STORM SEWER, SANITARY SEWER, AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (STANDARD SPECIFICATIONS), LATEST EDITION
- LLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS, AS PUBLISHED BY LE.P.A., LATEST EDITION. HE SUBDIVISION AND OTHER PERTINENT CODES AND STANDARDS OF THE VILLAGE OF ARLINGTON HEIGHTS, WHERE APPLICABLE.
  THE NATIONAL ELECTRIC CODE, LATEST EDITION.
- THE FOREGOING STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT.

THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS, AS PUBLISHED

NO CONSTRUCTION PLANS SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION". PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK OTHERWISE, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS, AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS 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 QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR

SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE

- THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE PROGRAMS, OR OTHER SAFETY PRECAUTIONS USED BY THE CONTRACTOR. T CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB SITE. THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS XPLORATIONS, AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT LOCATION
- NOTIFICATION OF COMMENCING CONSTRUCTION: 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 SUFFICIENTLY IN ADVANCE OF COMMENCING WORK 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 ALL NECESSARY TESTING AGENCIES
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED AGAINST ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE MUNICIPALITY, OTHER APPLICABLE GOVERNMENTAL AGENCIES, AND THE OWNER.
- BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL OF THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. UPON AWARD OF THE CONTRACT AND WHEN REQUIRED BY THE OWNER. TH CONTRACTOR SHALL FURNISH A LABOR AND PERFORMANCE BOND IN THE PENAL
- 10. 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.

SUM OF ONE HUNDRED (100) PERCENT OF THE CONTRACT GUARANTEEING

COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. HE SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING, AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. H SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AN ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE
- 12. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMININ 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 IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- SURVEYOR AT THE OWNER'S EXPENSE. CONTRACTORS SHALL NOTIFY THE SURVEYOR THAT STAKES WILL BE NEEDED AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF STARTING THEIR WORK (ADDITIONAL NOTIFICATION SHALL BE PROVIDED PRIOR TO THE START OF INITIAL PROJECT CONSTRUCTION OPERATIONS). ANY AND ALL REQUIRED RESTAKING WILL BE PERFORMED BY THE SURVEYOR AT THE EXPENSE THAT CONTRACTOR REQUIRING THE RESTAKING. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO PROTECT STAKES PROVIDED FOR HIS USE AND TO REPORT TO THE OWNER'S SUPERINTENDENT ANY SPECIFIC INSTANCES OF DESTROYING STAKES AND/OR MONUMENTS PROVIDED. LOT CORNER IRONS ARE
- 14. THE PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
- 15. ALL TOP OF FRAMES FOR STORM AND SANITARY SEWERS AND VALVE VAULT COVERS REQUIRING ADJUSTMENT TO MEET FINAL FINISH GRADE SHALL BE SO ADJUSTED BY THE SEWER AND WATER CONTRACTOR, AND THE COST IS TO BE
- 16. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC. AT NO TIME SHALL ACCESS BE DENIED TO HOMES SURROUNDING THE
- 17. 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 DIRECTED BY THE ENGINEER. CONTRACTOR SHALL NOT BE RESPONSIBLE IF OWNER HAS PREVIOUSLY ARRANGED FOR SUCH REMOVAL OR MODIFICATION AT OWNER'S EXPENSE. ANY ANY SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE
- 18. REMOVED EARTH, PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE DISPOSED OF BY THE RESPECTIVE CONTRACTOR AT HIS OWN EXPENSE AT LOCATIONS APPROVED BY THE ENGINEER. IF ON—SITE DISPOSAL IS NOT FEASIBLE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN OFF—SITE DISPOSAL
- 19. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGEWAY. IF THIS CANNOT BE ACCOMPLISHED. THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATING CONDITION. A RECORD OF LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY TH CONTRACTOR AND TRANSMITTED TO THE ENGINEER UPON COMPLETION OF THE THE COST OF THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE
- DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC.
  SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS LOOSE RESPONSIBLE PARTY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, A DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRISTHIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. DRAINAGE MA BE ACHIEVED BY DITCHING, PUMPING, OR ANY OTHER ACCEPTABLE METHOD. THI CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBL ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.

20. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS

- 21. 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 ACCORDANCE WITH ARTICLE 107.14 OF THE I.D.O.T. STANDARD SPECIFICATIONS ADEQUATE LIGHTING SHALL BE MAINTAINED FROM DUSK TO DAWN AT ALL LOCATIONS WHERE CONSTRUCTION OPERATIONS WARRANT OR AS DESIGNATED BY THE ENGINEER. ALL TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH THE I.D.O.T. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 22. ALL PERMANENT TYPE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS WHICH ABUT THE PROPOSED IMPROVEMENT AND MUST BE REMOVED SHALL BE SAWED AS DIRECTED PRIOR TO REMOVAL. ALL ITEMS SO REMOVED SHALL BE REPLACED WITH SIMILAR CONSTRUCTION MATERIALS TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWING SHALL BE INCLUDED IN THE COST FOR REMOVAL OF EACH
- 23. WHERE OVERHANGING BRANCHES INTERFERE WITH OPERATIONS OF CONSTRUCTION, SAID BRANCHES SHALL BE TRIMMED AND SEALED IN ACCORDANCE WITH SECTION 201.05 OF THE I.D.O.T. STANDARD SPECIFICATIONS, AND THE COST OF SAME SHALL BE INCIDENTAL TO THE CONTRACT. TREES SHALL BE REMOVED ONLY AFTER RECEIVING APPROVAL OF THE OWNER. THE OWNER SHALL DESIGNATE THOSE TREES WHICH ARE TO BE REMOVED. THE CONTRACTOR SHALL ALTER THE ALIGNMENT OF SEWERS WATER MAINS PATHWAYS SIDEWALKS AND DRIVEWAYS AS DIRECTED TO SEWERS, WATER MAINS, PATHWAYS, SIDEWALKS, AND DRIVEWAYS AS DIRECTED TO PRESERVE TREES. A CONTRACTOR REMOVING TREES WITHOUT OWNER'S APPROVA WILL BE RESPONSIBLE FOR REPLACEMENT OF SAID TREE(S) AS DIRECTED BY THE OWNER AT CONTRACTOR'S EXPENSE. IF TREES OR SHRUBS MUST BE REMOVED.
- 24. ALL EXISTING TRAFFIC SIGNS, STREET SIGNS, ETC., WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND NOT NOTED FOR REMOVAL OR DISPOSAL SHALL BE REMOVED AND RESET BY THE CONTRACTOR AT LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. DAMAGE TO THESE ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. ALL SIGNS NOT REQUIRED TO BE RESET SHALL BE DELIVERED TO THE MUNICIPALITY AS APPROPRIATE. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLES 107.19 AND 107.21 OF THE I.D.O.T. STANDARD SPECIFICATIONS.

- S. SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE SPECIAL ATTENTION IS DRAWN TO THE FACT THAT ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT, AND 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 SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07
- THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS, AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT ENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. BURNING ON THE
- ALL EXISTING UTILITIES OR IMPROVEMENTS INCLUDING WALKS, CURBS, PAVEMENTS, AND PARKWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE PROMPTLY RESTORED TO THEIR RESPECTIVE ORIGINAL CONDITION.
- . 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). WHEN HYDRANTS MUST BE FLUSHED, DAMAGE TO THE ROAD SUBGRADE DUE TO EXCESSIVE WATER SATURATION FROM HYDRANT FLUSHING OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM SHALL BE THE RESPONSIBILITY OF THE SEWER AND WATER CONTRACTOR.
- 9. ANY DEWATERING OF SEWER AND WATER TRENCHES, AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL NOT BE CONSIDERED EXTRA WORK. IN THE EVENT SOFT MATERIALS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED IN SEWER AND WATER MAIN CONSTRUCTION. THE CONTRACTOR SHALL (UPON APPROVAL OF THE OWNER AND/OR ENGINEE OVER-EXCAVATE TO A DEPTH OF ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE ) BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE
- THE CONTRACTOR SHALL PROVIDE ONE MYLAR AND THE REQUIRED QUANTITY OF BLUELINE SETS OF "RECORD DRAWINGS" TO THE ENGINEER PRIOR TO ANY REQUEST FOR FINAL INSPECTION. IF PROVIDED FOR IN THE CONSTRUCTION CONTRACT, SAID PLANS SHALL INDICATE THE FINAL LOCATION AND LAYOUT OF ALL IMPROVEMENTS, INCLUDE VERIFICATION OF ALL BUILDING PADS, TOP OF FOUNDATION, INVERT, RIM AND SPOT GRADE ELEVATIONS, AND INCORPORATE ALL FIELD DESIGN CHANGES
- CONTRACTOR SHALL VIDEO TAPE THE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS. 32. IT SHALL BE THE RESPONSIBILITY OF THE OWNER OR OTHERS DESIGNATED BY THE OWNER TO ARRANGE FOR PROTECTIVE FENCING AT THE CONSTRUCTION SITE. IG CONSULTING, INC. SHALL NOT BE RESPONSIBLE FOR PROVIDING DESIGNS, SPECIFICATIONS, METHODS, SAFETY PRECAUTIONS, OR SEQUENCING OF

### SOIL EROSION CONTROL

- THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURES AN STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL IN ILLINOIS, THE I.E.P.A. STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL, AND WITH ALL APPLICABLE COUNTY AND LOCAL ORDINANCES AND
- ANY SOIL EROSION CONTROL MEASURES, IN ADDITION TO THOSE OUTLINED IN THESE MUNICIPAL ENGINEER SHALL BE IMPLEMENTED IMMEDIATELY BY THE CONTRACTOR
- BEFORE COMMENCING CLEARING AND SITE GRADING WORK, A CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE CONSTRUCTION ENTRANCE TO THE SITE SHALL BE STABILIZED WITH GRAVEL OR ASPHALTIC SURFACE AS SHOWN ON THE PLANS PRIOR TO ANY WORK ON THE SITE. THE ENTRANCE ALL BE MAINTAINED PERIODICALLY FOR ITS EFFECTIVENESS TO REMOVE DIRT WHICH COULD LEAVE THE SITE BY CONSTRUCTION VEHICLES. ALL ROADWAYS SHALL KEPT CLEAN AT ALL TIMES. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD NOTED ON THE PLAN (STABILIZED CONSTRUCTION
- 4. STREETS ADJACENT TO THE SITE SHALL BE KEPT FREE OF DIRT, MUD, AND DEBRIS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AN MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES. THE CONTRACTOR SHALL INSPECT AND DOCUMENT FROSION CONTROL MEASURES ON A WEEKLY BASIS AND WITHIN 24 HOURS AFTER ANY RAINFALL EVENT IN EXCESS OF
- NO SEDIMENT (SOLID OD LIQUID WASTE) SHALL BE ALLOWED TO ENTER THE EXISTING

CONSTRUCTION SITE FENCING OR BARRICADES.

- ALL STORM SEWER, CATCH BASINS, AND SUMPS PROVIDED WITHIN THIS PROJECT ARE TO BE CLEANED AT THE END OF CONSTRUCTION OF THE PROJECT AND PRIOR TO FINAL ACCEPTANCE. CLEANING MAY ALSO BE REQUIRED DURING THE COURSE OF CONSTRUCTION OF THE PROJECT IF IT IS DETERMINED THAT THE SILT AND DEBRIS TRAPS ARE NOT PROPERLY FUNCTIONING AND THEIR PERFORMANCE IS IMPAIRED.
- TOPSOIL STOCKPILES SHALL BE LOCATED TO AVOID EROSION OF SAID STOCKPILE ONTO OFF-SITE AREAS, I.E., THE STOCKPILE SHALL BE LOCATED SO THAT AN ON-SITE DRAINAGE SWALE IS LOCATED BETWEEN THE STOCKPILE AND THE DOWNSTREAM OFF-SITE PROPERTY. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN TWELVE (12) MONTHS, IT IS REQUIRED THAT THE STOCKPILE BE SEEDED SO AS TO MINIMIZE SOIL FROSION BY BOTH WIND AND WATER.
- GRADING IF A DISTURBED AREA WILL REMAIN IDLE LONGER THAN THIRTY (30) DAYS. PERMANENT SOIL STABILIZATION SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. PERMANENT VEGETATION IS A GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.

TEMPORARY SOIL STABILIZATION SHALL OCCUR WITHIN SEVEN (7) DAYS AFTER ROUGH

- THE TEMPORARY EROSION CONTROL MEASURES SHALL BE PLACED EFFECTIVELY UNTIL
- 12. THE GUARANTEE PERIOD SHALL BEGIN AFTER ALL THE PERMANENT EROSION CONTROL MEASURES ARE FULLY FUNCTIONAL AND ACCEPTABLE TO OWNER OR HIS
- 13. UNLESS SOIL EROSION CONTROL ITEMS ARE SPECIFICALLY REFERRED TO AS BID ITEMS (SUCH AS TOPSOIL RESPREAD, SEEDING, ETC.), THEY ARE TO BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT.
- 14. UPON COMPLETION OF TOPSOIL RESPREAD OPERATIONS, ALL DISTURBED AREAS SHALL BE SEEDED, SODDED, OR LANDSCAPED AS NOTED ON THE PLAN.
- 15. SEEDING AND MULCHING SHALL BE IN ACCORDANCE WITH SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS. SEED MIXTURE SHALL BE CLASS 1. 16. SODDING SHALL BE IN ACCORDANCE WITH SECTION 252 OF THE I.D.O.T. STANDARD SPECIFICATIONS.

## SITE PREPARATION AND EARTHWORK

WORK UNDER THIS SECTION SHALL INCLUDE BUT NOT LIMITED TO THE

- CLEARING AND REMOVAL OF ALL UNDESIRABLE TREES AND OTHER VEGETATIVE GROWTH WITHIN THE CONSTRUCTION AREA. TREE REMOVAL SHALL BE AS DESIGNATED BY THE OWNER AND SHALL BE KEPT TO A MINIMUM. WHERE FEASIBLE AND WHEN PERMITTED BY THE OWNER AND BY THE LOCAL JURISDICTION, TREES AND BRUSH CAN BE CUT, CHIPPED, AND BURIED OR SPREAD IN DESIGNATED LOCATIONS ON—SITE. IF ADEQUATE AND ADPROPRIATE SPACE IS NOT AVAILABLE FOR ONL-SITE BILLIANT THE TREES. APPROPRIATE SPACE IS NOT AVAILABLE FOR ON-SITE BURIAL, THE TREES AND BRUSH SHALL BE DISPOSED OFF-SITE. NO BURNING SHALL BE PERMITTED ON-SITE. THE CONTRACTOR SHALL COMPLY WITH LOCAL TREE ORDINANCES. TREES AND SHRUBS DESIGNATED TO BE SAVED SHALL BE PROTECTED BY PLACING HIGHLY VISIBLE CONSTRUCTION FENCING ALONG TH DRIP LINES. TREES DESIGNATED FOR RELOCATION AND/OR TEMPORARILY STORED FOR TRANSPLANTING SHALL BE PROTECTED IN THE SAME MANNER. WHERE REQUIRED BY OWNER, TRUNKS OF DESIGNATED TREES SHALL BE PROTECTED WITH STRAPPED 2" X 6" PLANKING FROM THE BASE TO A
- STRIPPING OF TOPSOIL FROM ALL STREET, DRIVEWAY, PARKING LOT, RIGHT-OF-WAY, BUILDING PAD, AND OTHER DESIGNATED STRUCTURAL
- STOCKPILING OF TOPSOIL AT LOCATIONS AS DIRECTED BY THE OWNER TOPSOIL STOCKPILED FOR FUTURE USE SHALL BE RELATIVELY FREE O LARGE ROOTS, STICKS, WEEDS, BRUSH, STONES LARGER THAN ONE (1) INCH DIAMETER, OR OTHER LITTER AND WASTE PRODUCTS INCLUDING EXTRANEOUS MATERIALS NOT CONDUCIVE TO PLANT GROWTH. TOPSOIL SHALL BE STOCKPILED IN SEQUENCE TO MINIMIZE REHANDLING. FAILURE TO PROPERLY SEQUENCE THE STOCKPILING OPERATIONS SHALL NOT CONSTITUTE A CLAIM FOR ADDITIONAL COMPENSATION. NO MATERIAL SHALL BE STOCKPILED IN FRONT YARDS, OVERLAND DRAINAGE SWALES (FLOOD ROUTING AREAS), IN WETLANDS, IN PROPOSED UTILITY LOCATIONS, IN UTILITY EASEMENTS, OR IN THE RIGHT-OF-WAY. ABSOLUTELY NO MATERIALS WILL BE STOCKPILED OR DISPOSED UNDER THE CANOPIES OF TREES DESIGNATED FOR PROTECTION
- REMOVING UNSUITABLE MATERIALS AS SPECIFIED FROM ROADWAY DRIVEWAY/PARKING, BUILDING PAD, AND OTHER DESIGNATED AREAS.
- INCLUDING OFF-SITE DISPOSAL OF SAME, AT A LEGAL DISPOSAL SITE SELECTED BY THE CONTRACTOR. ON-SITE DISPOSAL WILL ONLY BE ALLOWED IF EXPRESSLY APPROVED BY OWNER IN WRITING.
- CLAY CUT AND CLAY FILL WITH COMPACTION WITHIN ROADWAY DRIVEWAY/PARKING, BUILDING PAD, AND OTHER DESIGNATED AREAS. EXCAVATION AND GRADING OF THE OPEN SPACE AND/OR YARD AREAS PER
- PLAN INCLUDING DESIGNATED POND REGRADING, CONSTRUCTION OF BERMS, PLACEMENT AND COMPACTION OF CLAY TO STANDARDS AND DETAILS REQUIRED ON THE CONSTRUCTION PLANS TO THE DESIGN SUBGRADE ELEVATIONS. THE CONTRACTOR WILL NOTE THAT THE ELEVATIONS SHOWN ON HE CONSTRUCTION PLANS ARE FINISHED GRADE ELEVATIONS AND THAT
- PAVEMENT AND/OR TOPSOIL REPLACEMENT THICKNESS MUST BE SUBTRACTED TÓ DETERMINE SUBGRADE ELEVATIONS. PLACEMENT AND COMPACTION OF NON-STRUCTURAL FILLS.
- J. IF REQUIRED, REMOVAL FROM SITE AND DISPOSAL OF ANY EXCESS OR UNSUITABLE MATERIAL UPON COMPLETION OF MASS GRADING. MOVEMENT AND COMPACTION OF SPOIL MATERIAL FROM THE CONSTRUCTION
- BACKFILLING OF CURBS AND/OR PAVEMENTS AND SIDEWALK AFTER INSTALLATION OF SAME BY THE PAVING CONTRACTOR.
- FINAL SHAPING AND TRIMMING TO THE LINES, GRADES, AND CROSS—SECTION SHOWN IN THESE PLANS; AND TOPSOIL PLACEMENT TO DESIGN FINISHED
- N. SOIL EROSION CONTROL MEASURE IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS, UNLESS SPECIFICALLY EXCLUDED IN THE CONSTRUCTION

- THE QUANTITIES GIVEN IN THE ENGINEER'S SUMMARY FOR EARTHWORK ARE INTENDED AS A GUIDE FOR THE CONTRACTOR IN DETERMINING THE SCOPE OF THE COMPLETED PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF ALL SITE CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS LUMP SUM FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE ECOGNIZED UNLESS ORDERED IN WRITING BY THE OWNER.
- PRIOR TO ONSET OF MASS GRADING OPERATIONS AND IF INCLUDED IN THIS CONTRACT, THE EARTHWORK CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SOIL EROSION CONTROL SPECIFICATIONS. THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF FILTER FENCING, ETC. TO PROTEC ADJACENT PROPERTY SHALL OCCUR BEFORE MASS GRADING BEGINS AND IN ACCORDANCE WITH THE SOIL EROSION CONTROL CONSTRUCTION SCHEDULE.
- THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED B
- THE SOILS ENGINEER OR HIS REPRESENTATIVE, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE SOILS ENGINEER. THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE. THE PROPOSED GRADING ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADE.
- A MINIMUM OF SIX (6) INCHES OF TOPSOIL IS TO BE PLACED BEFORE FINISH GRADE THE SELECTED STRUCTURAL FILL MATERIAL SHALL BE PLACED IN LEVEL UNIFORM LAYERS SO THAT THE COMPACTED THICKNESS IS APPROXIMATELY SIX (6) INCHES IF COMPACTION EQUIPMENT DEMONSTRATES THE ABILITY TO COMPACT GREATER THICKNESSES, THEN A GREATER THICKNESS MAY BE SPECIFIED. EACH LAYER SHALL BE THOROUGHLY MIXED DURING SPREADING TO INSURE UNIFORMITY

EMBANKMENT MATERIAL WITHIN ROADWAY, DRIVEWAY, PARKING LOT, AND OTHER

- STRUCTURAL CLAY FILL AREAS SHALL BE COMPACTED TO A MINIMUM C NINETY-FIVE (95) PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-1557 (MODIFIED PROCTOR METHOD), OR TO SUCH DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER. EMBANKMEN MATERIAL FOR BUILDING PADS SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE (95) PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 (MODIFIED PROCTOR METHOD) OR TO SUCH OTHER DENSITY AS MAY BE DETERMINED APPROPRIATE BY THE SOILS ENGINEER. FMRANKMENT FILL WITH NON-STRUCTURAL MATERIALS APPROVED BY THE SOILS ENGINEER SHALL BE COMPACTED TO A MINIMUM OF NINETY (90) PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM SPECIFICATION D-1557 (MODIFIED
- D. THE SURFACE VEGETATION, TOPSOIL, AND ANY OBVIOUSLY SOFT UNDERLYING SOIL SHALL BE STRIPPED FROM ALL AREAS TO RECEIVE CLAY FILL. IF THE UNDERLYING SUBGRADE SOILS RUT DEEPER THAN ONE (1) INCH UNDER THE CONSTRUCTION EQUIPMENT OR IF THE MOISTURE CONTENT EXCEEDS THAT NEEDED FOR PROPER COMPACTION, THE SOIL SHALL BE SCARIFIED, DRIED, AND RECOMPACTED TO THE REQUIRED SPECIFICATIONS (SEE SECTION 301.03 OF THE I.D.O.T SPECIFICATIONS)

PROCTOR METHOD).

- ALL PAVEMENT SUBGRADE SHALL HAVE A MINIMUM IBR OF 3.0 AS DETERMINED BY THE SOILS ENGINEER. THE PROPOSED PAVEMENT DESIGN HAS BEEN BASED ON A MINIMUM IBR OF 3.0. THEREFORE, IF AREAS OF PAVEMENT SUBGRADE ARE ENCOUNTERED WHICH DO NOT PROVIDE A MINIMUM IBR OF 3.0, SUBGRADE REPLACEMENT OR PAVEMENT DESIGN REVISIONS SHALL BE PROVIDED WHICH AR ADEQUATE TO OBTAIN EQUIVALENT PAVEMENT STRENGTH, AS DETERMINED BY THE SOILS ENGINEER AND DESIGN ENGINEER, RESPECTIVELY.
- PRIOR TO UTILITY CONSTRUCTION, PROPOSED PAVEMENT AREAS, BUILDING PADS. DRIVEWAYS AND SIDEWALKS. AND YARD/OPEN SPACE AREAS SHALL BE ROUGH-EXCAVATED OR FILLED BY THE CONTRACTOR TO PLUS OR MINUS ONE (1) FOOT OF DESIGN SUBGRADE ELEVATIONS THE SUBGRADE FOR PROPOSED STREET AND PAVEMENT AREAS SHALL BE
- PROOF-ROLLED BY THE CONTRACTOR AND ANY UNSTABLE AREAS ENCOUNTERED SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE SOILS ENGINEER.
- SHALL RESPREAD A SIX (6) INCH LAYER OF TOPSOIL ON ALL DESIGNATED LANDSCAPE AREAS AND OTHER NON-STRUCTURAL AREAS PER PLAN. SOIL BORING REPORTS, AVAILABLE AT THE OFFICE OF THE ENGINEER AND THE OWNER, ARE SOLELY FOR THE INFORMATION AND GUIDANCE OF THE CONTRACTOR: AND OWNER, AND ENGINEER MAKES NO REPRESENTATION OR WARRANTY REGARDING THE INFORMATION CONTAINED IN THE BORING LOGS. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATIONS, AND SHALL PLAN HIS WORK ACCORDINGLY.
  ARRANGEMENTS TO ENTER THE PROPERTY DURING THE BIDDING PHASE MAY BE
  MADE UPON REQUEST BY THE OWNER. THERE WILL BE NO ADDITIONAL PAYMENT FOR EXPENSES INCURRED BY THE CONTRACTOR RESULTING FROM ADVERSE SOIL OR GROUND WATER CONDITIONS.
- 16. IF SHOWN ON THE PLANS, OPEN AREAS TO BE SEEDED SHALL BE SEEDED IN ACCORDANCE WITH THE SOIL EROSION CONTROL SPECIFICATIONS.

## SEWER AND WATER

- A WORK LINDER THIS SECTION SHALL INCLUDE TRENCHING INSTALLATION OF PIPE WORK UNDER THIS SECTION 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.
- THE STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS, CURRENT EDITION, AND THE STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS AND ORDINANCES OF THE LOCAL JURISDICTION.
- COMPLETED PRIOR TO COMMENCEMENT OF UNDERGROUND UTILITY INSTALLATION. ALL UTILITY TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES. PROPOSEI OR EXISTING PAVEMENT, DRIVEWAYS, SIDEWALKS AND FOR A DISTANCE OF TWO
- FEET ON EITHER SIDE OF SAME, AND/OR WHEREVER ELSE SHOWN ON THE CONSTRUCTION PLAN SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CA-6) AND THOROUGHLY COMPACTED IN ACCORDANCE WITH SPECIFICATIONS E. ALL SANITARY SEWERS, STORM SEWERS, AND SEWER SERVICES SHALL BE INSTALLED ON GRANULAR CRUSHED STONE BEDDING, CLASS I, (I.D.O.T. FOUAL TO ONE-QUARTER (1/4TH) OF THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES OR MORE THAN EIGHT (8) INCHES. BEDDING SHALL EXTEND TO SIX (6) INCHES OVER THE CROWN ON THE PIPE IN ALL CASES. FOR PVC SANITARY SEWER, THE BEDDING SHALL EXTEND TO ONE
- 1) FOOT ABOVE THE TOP OF THE PIPE. BEDDING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33 FOR SOUNDNESS AND ASTM C-67 FOR GRADATION. COST FOR BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID THE UNDERGROUND CONTRACTOR SHALL DISPOSE OF EXCESS EXCAVATED TRENCH MATERIAL IN AN ORDERLY FASHION SO AS NOT TO CREATE A HAZARD OR OBSTRUCTION, AND SHALL MAINTAIN AND RESTORE THE SITE TO A WORKABLE CONDITION. THE DISPOSAL AND PLACEMENT OF ALL EXCESS TRENCH MATERIAL SHALL BE THE RESPONSIBILITY OF THE EARTH EXCAVATING
- THE UNDERGROUND CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ANY EXCAVATION FOR THE INSTALLATION OF THE SEWER OR WATER SYSTEMS. ANY DEWATERING ENCOUNTERED SHALL BE INCIDENTAL TO THE RESPECTIVE
- H. AN ANTICIPATED COST OF SHEETING SHALL BE REFLECTED IN THE CONTRACT AMOUNTS. NO ADDITIONAL COST WILL BE ALLOWED FOR SHEETING OR BRACING. STRUCTURES FOR SANITARY AND STORM SEWERS AND VALVE VAULTS FOR WATER MAINS SHALL BE IN ACCORDANCE WITH THESE IMPROVEMENT PLANS AND THE APPLICABLE STANDARD SPECIFICATIONS. WHEN GRANULAR TRENCH BACKFILL IS REQUIRED AROUND THESE STRUCTURES, THE COST SHALL BE CONSIDERED AS INCIDENTAL AND SHALL BE INCLUDED IN THE CONTRACT UNIT
- SEWER STRUCTURES SHALL BE AS INDICATED WITHIN THESE IMPROVEMENT PLANS (SEE CONSTRUCTION STANDARDS). TOTAL THICKNESS OF P.C.C. ADJUSTING RINGS SHALL NOT EXCEED EIGHT (8)
- INCHES, UNLESS OTHERWISE NOTED. ALL TOP OF FRAMES FOR STORM AND SANITARY SEWERS. VALVE VAULT COVERS, AND B-BOXES ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE UPON COMPLETION OF FINISHED GRADING AND FINAL INSPECTIONS. THIS ADJUSTMENT IS TO BE MADE BY THE UNDERGROUND CONTRACTOR, AND THE COST IS TO BE CONSIDERED INCIDENTAL. THE UNDERGROUND CONTRACTOR SHALL INSURE THAT ALL ROAD AND PAVEMENT INLETS OR STRUCTURES (FRAMES AND GRATES) ARE AT FINISHED GRADE. ANY ADJUSTMENTS NECESSITATED BY THE CURB OR PAVING CONTRACTOR TO ACHIEVE FINAL RIM RADE, RESULTING IN AN EXTRA FOR SAID ADJUSTMENTS, WILL BE CHARGED TO THE UNDERGROUND CONTRACTOR.
- THE CONTRACTOR SHALL INSTALL A 2" X 4" X 8" CEDAR POST ADJACENT TO THE TERMINUS OF THE SANITARY SERVICE, WATER MAIN SERVICE, SANITARY MANHOLES, STORM MANHOLES, CATCH BASINS, INLETS, AND WATER VAULTS. THE POST SHALL EXTEND A MINIMUM OF FOUR (4) INCHES ABOVE THE GROUND THE TOP TWELVE (12) INCHES OF SAID POST SHALL BE PAINTED AS FOLLOWS: SANITARY — RED; WATER MAIN — BLUE; STORM — GREEN.
- N. IT SHALL BE THE RESPONSIBILITY OF THE UNDERGROUND CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE
- O. TELEVISION INSPECTION OF SEWERS: IF REQUIRED BY THE LOCAL JURISDICTION, CONTRACTOR SHALL CAUSE THE SEWERS TO BE TELEVISED. IN THE EVENT ANY PORTION OR PORTIONS OF THE SEWER WERE NOT INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, WERE NOT CONSTRUCTED TO THE REQUIRED LINES AND GRADE, OR ARE FOUND TO BE OTHERWISE DEFECTIVE, THE CONTRACTOR SHALL PROCEED AT ONCE TO MAKE THE NECESSARY REPAIRS AND CORRECTIONS REQUIRED TO ELIMINATE SAID DEFECTS. AFTER SUCH REPAIRS AND CORRECTIONS HAVE BEEN COMPLETED, THE SEWER WILL BE RE-TELEVISED, AND ANY FURTHER CORRECTIVE WORK WILL BE DONE AS NECESSARY. THE COST OF THE CLOSED CIRCUIT TELEVISION INSPECTION SHALL BE AT THE
- A. CONSTRUCTION MATERIALS: THE FOLLOWING SPECIFICATIONS SHALL APPLY TO MATERIALS GENERALLY USED IN SANITARY SEWER CONSTRUCTION. THE MATERIALS SPECIFICALLY PERMITTED BY THE LOCAL JURISDICTION ARE IDENTIFIED
- ON THE "CONSTRUCTION STANDARDS" SHEETS OF THE PLANS. 1) VITRIFIED CLAY PIPE, INCLUDING HOUSE SERVICES WYES AND TEES, SHALL CONFORM TO ASTM C-700, WITH JOINTS CONFORMING TO ASTM C-425.
- POLYVINYL CHI ORIDE PLASTIC GRAVITY SEWER (PVC) CONFORMING TO ASTM DESIGNATION D-3034 WITH AN SDR OF 26, WITH ELASTOMETRIC GASKET JOINTS CONFORMING TO ASTM DESIGNATION D-3212. 3) ABS OR PVC TRUSS PIPE AND ABS OR PVC SOLID WALL PIPE (SERVICES) CONFORMING TO ASTM DESIGNATIONS D-2680 AND D-2751, WITH SOLVENT
- CEMENT WELDED JOINTS IN ACCORDANCE WITH ASTM DESIGNATIONS D-2680 AND 4) DUCTILE IRON PIPE (CLASS 52 MIN.) CONFORMING TO ANSI A21.51 WITH JOINTS CONFORMING TO ANSI A21.11 (AWWA C151, AWWA 11).

- MANHOLES SHALL BE REINFORCED PRECAST CONCRETE CONFORMING TO ASTM C-478, FORTY-EIGHT INCHES IN INTERNAL DIAMETER, FIVE (5) INCH MINIMUM WALL THICKNESS. AND A SIX (6) INCH THICK MONOLITHIC CONCRETE BASE SET ON A THREE (3) INCH COMPACTED SAND CUSHION. CONES SHALL BE ECCENTRIC AND CENTERED IN A MANNER PERPENDICULAR TO THE MAINLINE FLOW. SECTIONS SHALL BE TONGUE AND GROOVE OF VARIABLE HEIGHT. ALL JOINTS SHALL BE SEALED WITH ONE (1) INCH BUTYL JOINT SEALANT IN ROPE FORM MEETING ASTM C-443 OR APPROVED EQUAL. HE BOTTOM SECTION OF FACH MANHOLF SHALL BE PROVIDED WITH THE PROPER OPENING TO RECEIVE THE PIPELINES. EACH OPENING SHALL HAVE A FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL, EITHER LOCK JOINT FLEXIBLE MANHOLE SLEEVE OR PRESS WEDGE II. SECTIONS SHALL BE URNISHED WITH CAST IRON STEPS, NEENAH R-1981-1 OR EQUAL, AT TWELVE (12) INCH TO SIXTEEN (16) INCH CENTERS. THE TOP OF SECTIONS SHALL BE OF THE OFFSET CONE TYPE. NO MORE THAN EIGHT (8) INCHES OF ADJUSTING RING SHALL BE ALLOWED BETWEEN THE TOP OF THE PRECAST CONE AND THE CAST IRON FRAME. PROVIDE CHIMNEY SEALS IF REQUIRED BY LOCAL JURISDICTION. EACH MANHOLE SHALL BE FURNISHED WITH A NEENAH R-1015 MACHINED BEARING FRAME (OR EQUAL) WITH TYPE B LID. LIDS SHALL HAVE CONCEALED PICK HOLES, BE SELF—SÉALING, AND BE LETTERED "SANITARY" IN TWO INCH LETTERS.
- "BAND-SEAL" OR SIMILAR FLEXIBLE TYPE COUPLINGS SHALL BE USED WHEN CONNECTING SEWER PIPES OF DISSIMILAR MATERIALS. WHEN CONNECTING TO A EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE THE FOLLOWING METHODS SHALL BE USED
- CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR
- REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION. 3) WITH THE PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED
- LENGTH OF PIPE FOR INSERTION OF PROPER FITTING USING "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE. ALL FLOOR DRAINS AND FLOOR DRAIN SUMP PUMPS SHALL DISCHARGE INTO THE ALL DOWNSPOUTS, FOOTING DRAINS, AND SUBSURFACE STORM WATERS SHALL DISCHARGE INTO THE STORM SEWER OR ONTO THE GROUND.
- SANITARY SERVICES SHALL BE LAID TO A MINIMUM GRADE OF ONE (1) PERCENT. THE END OF EACH SERVICE SHALL BE SEALED WITH A MANUFACTURER'S WATERTIGHT PLUG. SANITARY SERVICE STUBS SHALL BE MARKED IN ACCORDANCE WITH THESE CONSTRUCTION NOTES. SEWER SERVICE RISER SHALL BE USED WHEN MAINLINE SEWER EXCEEDS TWELVE
- NEOPRENE COUPLINGS WITH STAINLESS STEEL BANDS SHALL BE USED TO CONNECT SANITARY SERVICE LINES TO THE BUILDING PLUMBING OUTLET. ALL SANITARY SEWERS INCLUDING SERVICE LINES SHALL BE SUBJECTED TO EITHER AN INFILTRATION TEST OR AIR TEST AND APPLICABLE DEFLECTION TEST BY THE CONTRACTOR. ALLOWABLE INFILTRATION SHALL NOT EXCEED TWO

HUNDRED (200) GALLONS PER INCH DIAMETER OF PIPE PER MILE PER DAY. THE

- BY THE MUNICIPAL ENGINEER AND SANITARY DISTRICT, AS APPROPRIATE. IF PVC SEWER PIPE OR ABS TRUSS PIPE IS USED FOR SANITARY SEWERS, THE CONTRACTOR SHALL PERFORM DEFLECTION TESTS AS OUTLINED IN THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION OR AS OTHERWISE REQUIRED BY THE LOCAL TRENCH CONDITIONS
  - TRENCH BOTTOMS: UNSTABLE SAND AND SILTY SUBSOIL SHALL BE COMPLETELY DEWATERED WITH WELL POINTS WHERE DEEMED NECESSARY BY THE ENGINEER. IN SUCH CASES, THE PIPE SHALL BE BEDDED IN A LAYER OF STONE UNDERLAY EIGHT (8) INCHES IN THICKNESS BELOW THE STANDARD BEDDING MATERIAL TO PROVIDE NECESSARY SOIL SUPPORT AND STABILITY. BEDDING MAIERIAL TO PROVIDE NECESSARY SOIL SUPPORT AND STABILITY.

    STONE UNDERLAY SHALL CONFORM WITH SECTION 704 OF THE STANDARD SPECIFICATIONS AND BE CRUSHED LIMESTONE OF GRADATION CA 3 ONLY. WHERE SPECIFICALLY AUTHORIZED BY THE ENGINEER, STONE UNDERLAY WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON IN PLACE. NO ADDITIONAL COMPENSATION WILL BE PAID FOR DEWATERING WITH WELL POINTS OR OTHER MEANS OR FOR BRACING AND SHEETING TRENCH WALLS, EXCEPT WHERE SPECIFICALLY PROVIDED FOR IN THE PROPOSAL AND EXCEPT WHERE SPECIFICALLY PROVIDED FOR IN THE PROPOSAL AND AUTHORIZED BY THE ENGINEER.
- SEWERS SHALL BE SO LAID THAT THE PIPE BARREL SHALL BE SUPPORTED THROUGHOUT ITS LENGTH BETWEEN PIPE BELLS OR COUPLINGS. THE BEDDING SHALL BE SHAPED TO PROVIDE UNIFORM SUPPORT OVER THE LOWER QUADRANT OF THE PIPE BARREL. BELL\_HOLES SHALL BE EXCAVATED SO THAT AFTER PLACEMENT, ONLY THE BARREL OF THE PIPE RECEIVES BEARING PRESSURE FROM THE TRENCH BOTTOM. THE USE OF BRICK, TIMBER, OR EARTH FILL TO RAISE THE PIPE FOR JOINTING OR UNIFORM GRADE WILL NOT BE PERMITTED.
- TRENCHES SHALL BE KEPT WATER-FREE AND AS DRY AS POSSIBLE DURING BEDDING, LAYING, AND JOINTING AND FOR AS LONG A PERIOD AS REQUIRED.

  AS SOON AS POSSIBLE AFTER THE JOINT IS MADE, SUFFICIENT BEDDING OFFSET CONDITIONS THAT MIGHT TEND TO MOVE THE PIPE OFF LINE AND
- ALL TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED IMMEDIATELY AFTER THE PIPE IS LAID THEREIN, UNLESS OTHER PROTECTION OF THE PIPE LINES IS DIRECTED. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER THE PIPE HAS BEEN PLACED. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONES OVER SIX (6) INCH DIMENSION, FROZEN EARTH, DEBRIS, OR EARTH WITH AN EXCEPTIONALLY HIGH VOID CONTENT. FOR BACKFILL UP TO A LEVEL OF TWO (2) FEET OVER THE TOP OF THE PIPE, ONLY SELECTED MATERIALS SHALL BE USED. EACH LAYER OF THE SELECTED FINE GRADED BACKFILL FREE FROM STONES, LUMPS, AND CLODS SHALL BE CAREFULLY PLACED AND UNIFORMLY TAMPED IN A MANNER TO ELIMINATE THE POSSIBILITY OF LATERAL OR VERTICAL DISPLACEMENT
- ALL BACKFILL MATERIAL UP TO A HEIGHT OF TWENTY—FOUR (24) INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY DEPOSITED IN UNIFORM LAYERS NOT EXCEEDING EIGHT (8) INCHES IN THICKNESS (LOOSE MEASURE) AMPING EQUIPMENT APPROVED BY THE ENGINEER IN SUCH A MANNER AS NOT TO DISTURB OR INJURE THE PIPE. BACKFILLING ABOVE THIS HEIGHT SHALL BE DONE BY THE MATERIAL BEING DEPOSITED IN UNIFORM LAYERS NOT EXCEEDING TWELVE (12) INCHES IN THICKNESS (LOOSE MEASURE), WITH EACH LAYER COMPACTED BY PNEUMATIC OR HYDRAULIC TAMPING EQUIPMENT PPROVED BY THE ENGINEER.
- ALL BACKFILL MATERIAL SHALL BE COMPACTED BY PNEUMATIC OR HYDRAULIC TAMPING FOUIPMENT (APPROVED BY THE ENGINEER) TO NINETY (90) PERCENT OF AASHTO T-180 MODIFIED DENSITY. ALL BACKFILL MATERIAL WITHIN TWO (2) FEET, MEASURED VERTICALLY FROM THE BOTTOM OF ANY PROPOSED OR EXISTING PAVEMENT DRIVEWAY OR SIDEWALK, SHALL E COMPACTED TO NINETY-FIVE (95) PERCENT OF AASHTO T-180 MODIFIED
- A. CONSTRUCTION MATERIALS: THE FOLLOWING SPECIFICATIONS SHALL APPLY TO MATERIALS GENERALLY USED IN STORM SEWER CONSTRUCTION. THE MATERIALS SPECIFICALLY PERMITTED BY THE LOCAL JURISDICTION ARE IDENTIFIED ON THE "CONSTRUCTION STANDARDS" SHEETS OF THE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76 AND JOINTS
- CONFORMING TO ASTM C-443, USING ROBBER "O"-RING GASKETED JOINTS EXCEPT WHERE DESIGNATED OTHERWISE ON THE PLANS. THE PIPE CLASS SHALL BE NO LESS THAN CLASS III IF NO HIGHER DESIGNATION IS SHOWN ON THE PLANS.
- POLYVINYL CHLORIDE PLASTIC GRAVITY SEWER PIPE CONFORMING TO ASTM D-2751 WITH SOLVENT CEMENT JOINTS, AND ASTM D-3212 WITH ELASTOMERIC JOINTS, PER THE SDR VALUE SHOWN IN THE
- HIGH DENSITY POLYETHYLENE CORRUGATED PIPE WITH SMOOTH INTERIOR LINER CONFORMING TO ASTM F-405 (WITH SMOOTH INTERIOR LINER) AND INSTALLED IN ACCORDANCE WITH ASTM D-2321. CORRUGATED STEEL CULVERT PIPE CONFORMING TO ASTM A-760 AND INSTALLED IN ACCORDANCE WITH ASTM A-798 AND A-807.
- 5) DUCTILE IRON PIPE (CLASS 52 MIN.) CONFORMING TO ANSI A21.51 WITH JOINTS CONFORMING TO ANSI 21.11
- SHALL BE PRECAST STRUCTURES WITH THE DIAMETER DEPENDENT ON THE PIPE SIZES AND WATER FRANCE AND THE PIPE SIZES AND THE PIPE SIZES AND WITH FRAMES AND LIDS DEPICTED IN THE CONSTRUCTION STANDARDS. TRENCH CONDITIONS
- TRENCH BOTTOMS: UNSTABLE SAND AND SILTY SUBSOIL SHALL BE COMPLETELY DEWATERED WITH WELL POINTS WHERE DEEMED NECESSARY BY THE ENGINEER. IN SUCH CASES, THE PIPE SHALL BE BEDDED IN A LAYER OF STONE UNDERLAY EIGHT INCHES IN THICKNESS BELOW THE STANDARD BEDDING MATERIAL TO PROVIDE NECESSARY SOIL SUPPORT AND STABILITY. STONE UNDERLAY SHALL CONFORM WITH SECTION 704 F THE STANDARD SPECIFICATIONS AND BE CRUSHED LIMESTONE O GRADATION CA 3 ONLY. WHERE SPECIFICALLY AUTHORIZED BY THE ENGINEER, STONE UNDERLAY WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON IN PLACE. NO ADDITIONAL COMPENSATION WIL BE PAID FOR DEWATERING WITH WELL POINTS OR OTHER MEANS OR FOR BRACING AND SHEETING TRENCH WALLS, EXCEPT WHERE SPECIFICALLY PROVIDED FOR IN THE PROPOSAL AND AUTHORIZED BY
- SUPPORTED THROUGHOUT ITS LENGTH BETWEEN PIPE BELLS OR COUPLINGS. THE BEDDING SHALL BE SHAPED TO PROVIDE UNIFORM SUPPORT OVER THE LOWER QUADRANT OF THE PIPE BARRE BELL\_HOLES SHALL BE EXCAVATED SO THAT AFTER PLACEMENT, ONLY THE BARREL OF THE PIPE RECEIVES BEARING PRESSURE FROM THE RAISE THE PIPE FOR JOINTING OR UNIFORM GRADE WILL NOT BE
- TRENCHES SHALL BE KEPT WATER-FREE AND AS DRY AS POSSIBLE DURING BEDDING, LAYING, AND JOINTING AND FOR AS LONG A PERIOD AS REQUIRED. AS SOON AS POSSIBLE AFTER THE JOINT IS MADE, SUFFICIENT BEDDING SHALL BE PLACED AND COMPACTED ALONG EACH SIDE OF THE DIDE TO OFFSET CONDITIONS THAT MICHT TEND SIDE OF THE PIPE TO OFFSET CONDITIONS THAT MIGHT TEND TO MOVE
- THE CONTRACTOR SHALL REPORT TO THE ENGINEER THE DISCOVERY OF ALL FIELD TILES AND SHALL CONFER WITH ENGINEER REGARDING THE METHOD OF RELOCATION OR CONNECTION TO THE PROPOSED STORM WATER COLLECTION

AND DEBRIS TRAPS ARE NOT FUNCTIONING PROPERLY

ALL CATCH BASINS, SUMPS, AND/OR RETENTION BASINS ARE TO BE CLEANED AT THE END OF THE PROJECT PRIOR TO FINAL ACCEPTANCE.

FANING MAY ALSO BE REQUIRED DURING THE COURSE OF THE

- WATER MAIN CONSTRUCTION MATERIALS: THE FOLLOWING SPECIFICATIONS SHALL APPLY TO MATERIALS SPECIFICALLY USED IN WATER MAIN CONSTRUCTION. THE MATERIALS SPECIFICALLY PERMITTED BY THE LOCAL JURISDICTION ARE IDENTIFIED ON THE "CONSTRUCTION STANDARDS" SHEETS OF THE PLANS.
  - GASKETS AND CAST IRON FITTINGS SHALL CONFORM TO ANSI A21.51 OR AWWA C-110 AND C-111. PIPE SHALL BE CEMENT-LINED ACCORDING TO ANSI A21.4 OR AWWA C-104. THICKNESS CLASS SHALL BE AS SPECIFIED IN THE CONSTRUCTION STANDARDS SHEETS. 2) POLYVINYL CHLORIDE (PVC) AND CHLORINATED POLYVINYL CHLORIDE (CPVC) SHALL CONFORM TO NSF STANDARD 14 AND ASTM STANDARD B-1787 OR AWWA STANDARD C-900. PIPING MATERIALS DESIGNATED CLASS 12454B (PVC 1120), CLASS 12454C (PVC 1220) AND CLASS 23447B (CPVC 4120) ARE ACCEPTABLE IN THE FOLLOWING PRESSURE RATINGS: SCHEDULE RATINGS SHALL BE IN ACCORDANCE WITH ASTM
  - ASTM STANDARDS B2241 (PVC) AND ASTM F442 (CPVC) 3) PORTLAND CEMENT CONCRETE PRECAST STRUCTURES IN ACCORDANCE WITH THE DETAILS DEPICTED IN THE CONSTRUCTION STANDARDS SHEETS. LIDS SHALL BE IMPRINTED WITH "WATER" IN TWO (2) INCH HIGH

STANDARDS B1785 (PVC) AND F441 (CPVC); STANDARD DIMENSION

RATIO PRESSURE RATED (SDR-PR) SHALL BE IN ACCORDANCE WITH

- 4) CAST IRON PIPE JOINTS SHALL BE MECHANICAL JOINT OR PUSH-ON JOINT AS SPECIFIED, AND SHALL CONFORM TO APPLICABLE SECTIONS OF AMERICAN STANDARDS ASSOCIATION SPECIFICATIONS A21-11-64 (AWWA C111-77). PIPE SHALL BE FURNISHED WITH SUFFICIENT CAST IRON GLANDS, GASKETS, AND HIGH STRENGTH CASH IRON TEE HEAD BOLTS GLANDS, GASKEIS, AND HIGH STRENGTH CASH IKON THE HEAD BOLTS
  AND HEXAGON NUTS TO PROVIDE FOR EACH SOCKET OPENING. ALL
  GASKETS SHALL BE OF THE PLAIN RUBBER TYPE AND MADE TO
  ACCURATE DIMENSIONS. ALL GLANDS SHALL BE MADE OF HIGH
  STRENGTH CAST IRON. CAST IRON TEE HEAD BOLTS SHALL HAVE A MINIMUM TENSILE STRENGTH OF 50,000 POUNDS PER SQUARE INCH ALL FITTINGS SHALL BE SMOOTH, FREE FROM SCALES, LUMPS, BLISTERS, SAND HOLES, BLOW HOLES, AND DEFECTS FROM EVERY NATURE WHICH MAKE THEM UNFIT FOR USE. NO PLUGGING, FILLING, BURNING-IN, OR WELDING WILL BE ALLOWED. ALL FITTINGS SHALL BE OF THE PROPER DIMENSION. WEIGHTS. AND QUALITY TO MEET THE REQUIREMENTS OF ASA A-21-10-64 (AWWA C110-77). SAID FITTINGS SHALL BE DESIGNED FOR A MAXIMUM WORKING PRESSURE OF TWO HUNDRED FIFTY (250)
- 5) PVC JOINTS SHALL BE ELASTOMETRIC SEALS USED FOR PUSH-ON JOINTS CONFORMING TO ASTM F-477.
- 6) RESILIENT SEAT GATE VALVES (6 INCHES 12 INCHES, INCL.) SHALL BE MUELLER OR APPROVED EQUAL, CONFORMING TO AWWA C509-80.
  VALVES SHALL BE BRONZE STEMMED, MODIFIED WEDGE DISC PATTERN DESIGNED FOR 200 PSI WORKING PRESSURE. EACH VALVE SHALL BE TESTED TO FOUR HUNDRED (400) POUNDS HYDROSTATIC TEST PRESSURE AND SHALL BE FURNISHED WITH AN O-RING STEM SEAL. VALVES SHALL BE CLOSED BY TURNING THE STEM IN CLOCKWISE DIRECTION WITH TWO (2) SQUARE OPERATING NUTS.

POUNDS PER SQUARE INCH AND SHALL BE CEMENT LINED AND ASPHALT

- 7) GATE VALVES (TAPPING SLEEVE AND HYDRANT VALVES ONLY) THESE SPECIFICATIONS COVER GATE VALVES FROM FOUR (4) INCHES THROUGH TWELVE (12) INCHES IN SIZE. GATE VALVES SHALL BE OF THE CAST IRON BODY, BRONZE MOUNTED, BRONZE STEMMED, DOUBLE DISC PATTERN DESIGNED FOR TWO HUNDRED (200) POUNDS WORKING PRESSURE AND CONFORMING TO AWWA SPECIFICATIONS C500-80 WHERE APPLICABLE. EACH VALVE SHALL BE BESTED TO THREE HUNDRED FIFTY (350) POUNDS HYDROSTATIC TEST PRESSURE. ALL VALVES SHALL BE CLOSED BY TURNING THE STEM IN A CLOCKWISE DIRECTION. STEMS SHALL BE OF THE NON-RISING TYPE, AND SHALL BE FURNISHED WITH
- WATER MAIN FITTINGS (BENDS, ELBOWS, TEES, INCREASERS, REDUCERS, ETC.) MAY OR MAY NOT BE SPECIFICALLY REFERENCED ON THE CONSTRUCTION PLANS. HOWEVER, THEY ARE TO BE CONSIDERED AS INCIDENTAL AND INCLUDED IN THE LINEAL FOOTAGE COST OF THE WATER MAIN.
- IF PROTECTIVE WRAPPING OF THE WATER MAIN IS SPECIFIED ON THE PLANS HE PROTECTIVE WRAPPING SHALL BE A POLYETHYLENE TUBE SUCH AS FLOW TYPE F-191 OR EQUAL AND SHALL COMPLETELY ENCASE AND SEAL THE WATER MAIN AND FITTINGS AND ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS FOR THE USE OF ENCASEMENT TUBE ALL WATER MAINS AND SERVICES SHALL BE LAID NOT LESS THAN 5.5 FEET, NOR DEEPER THAN 9.0 FEET BELOW FINISH GRADE.
- THRUST BLOCKING SHALL BE INSTALLED ON WATER MAINS AT ALL BENDS, TEES, ELBOWS, ETC. COST OF SAME SHALL BE MERGED WITH UNIT PRICE FOR PIPE INSTALLED. REFER TO DETAILS IN THE CONSTRUCTION STANDARDS ALL WATER MAINS SHALL HAVE COMPACTED CA-6 GRANULAR BEDDING. A
- MINIMUM OF FOUR (4) INCHES BELOW THE BOTTOM OF THE PIPE FOR THE FULL LENGTH. COST OF BEDDING SHALL BE MERGED WITH THE UNIT PRICE BID FOR THE WATER MAIN. WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWER SERVICE CONNECTIONS AND DRAINS AS FOLLOW
- WATER MAINS SHALL BE LAID AT LEAST ELEVEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.

b. WATER MAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER WHEN:

- 1. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET, 2. THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE AND CROWN OF THE SEWER, AND
- 3. THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME RENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE INSTALLATION COMPLIES WITH ALL APPLICABLE SECTIONS OF THE STATE OF ILLINOIS PLUMBING CODE, LATEST EDITION.
- BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP—ON OF MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS CEMENT PRESSURE PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN 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 THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF THE STATE OF ILLINOIS PLUMBING CODE, LATEST EDITION.

THE CONDITION IS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION OVER THE WORK.

- 2) VERTICAL SEPARATION WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS, OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN FEET HORIZONTALLY OF ANY SEWER OR DRAIN
- SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP—ON OR MECHANICAL JOINTCAST OR DUCTILE IRON PIPE, ASBESTOS CEMENT PRESSURE PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT

TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN:

- 1. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (a) ABOVE; OR 2. THE WATER MAIN PASSES UNDER A SEWER OR DRAIN.
- A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES A SEWER. SUPPORT THE SEWER OR DRAIN LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN.
- CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET. e. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF THE STATE OF ILLINOIS PLUMBING CODE, LATEST EDITION.
- THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER SERVICE LINES AND ALL STORM SEWER, SANITARY SEWERS, COMBINED SEWER OR ANY DRAIN OR SEWER SERVICE CONNECTION SHALL BE THE SAME AS WATER MAIN SEPARATION DESCRIBED IN (1) AND (2) ABOVE. WATER PIPE DESCRIBED IN (1) ABOVE SHALL BE USED FOR SEWER SERVICE LINES WHEN MINIMUM HORIZONTAL AND VERTICAL SEPARATION CANNOT BE
- THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF THE STATE OF ILLINOIS PLUMBING CODE, LATEST EDITION. 5) WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS AND, SEEPAGE BEDS BY A MINIMUM OF 25 FEET.

6) WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED AGAINST ENTRANCE OF HYDROCARBONS THROUGH DIFFUSION THROUGH ANY MATERIAL

ALL WATER MAINS SHALL BE SUBJECTED TO A PRESSURE TEST BY THE CONTRACTOR. HYDROSTATIC PRESSURE TEST AND LEAKAGE SHALL BE BASED ON THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION OTHERWISE REQUIRED BY THE LOCAL JURISDICTION.

THE UNDERGROUND CONTRACTOR SHALL CONSIDER INCIDENTAL TO THE

CONTRACT THE CHLORINATION AND TESTING OF EXISTING WATER MAI WHERE CONNECTIONS TO AND INCLUSION OF SUCH MAINS IS INDICATED ON THE DRAWINGS. IN THE EVENT THAT THE PRESSURE TESTS INVOLVING

USED IN CONSTRUCTION OF THE LINE.

EXISTING MAINS FAIL, AND SUCH FAILURES ARE ATTRIBUTABLE TO DEFECTIVE ORIGINAL WORKMANSHIP AND MATERIAL, THEN THE CONTRACTOR SHALL BE ENTITLED TO ADDITIONAL PAYMENT FOR CORRECTING THE DEFICIENCIES.

## PAVEMENTS, CURBS, AND WALKS

- WORK UNDER THIS SECTION SHALL INCLUDE FINAL SUBGRADE SHAPING AND PREPARATION; FORMING, JOINTING, PLACEMENT OF ROADWAY AND PAVEMENT BASE COURSE MATERIALS, AND SUBSEQUENT BINDER AND/OR SURFACE COURSES; PLACEMENT, FINISHING AND CURING OF CONCRETE; FINAL CLEAN-UP; AND ALL RELATED WORK.
- ALL PAVING, SIDEWALK, AND CURB AND GUTTER WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS (I.D.O.T.) AND PER THE REQUIREMENTS OF THE LOCAL JURISDICTIONS.
- SUBGRADE FOR PROPOSED PAVEMENT SHALL BE FINISHED BY THE EXCAVATION CONTRACTOR TO WITHIN 0.1 FOOT, PLUS OR MINUS, OF PLAN ELEVATION. THE PAVING CONTRACTOR SHALL SATISFY HIMSELF THAT THE SUBGRADE HAS BEEN PROPERLY PREPARED AND THAT THE FINISH TOP SUBGRADE ELEVATION HAS BEEN GRADED WITHIN TOLERANCES ALLOWED IN THESE SPECIFICATIONS. UNLESS THE PAVING 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 PLACEMENT OF PAVEMENT BASE MATERIALS, THE PAVING CONTRACTOR SHALL FINE GRADE THE SUBGRADE SO AS TO INSURE THE PROPER THICKNESS OF PAVEMENT COURSES. NO CLAIMS FOR EXCESS TONNAGE OF BASE MATERIALS DUE TO
- THE PROPOSED PAVEMENT SHALL CONSIST OF THE SUB-BASE COURSE; BASE COURSE; BITUMINOUS CONCRETE BINDER COURSE; AND BITUMINOUS SURFACE COURSE, CLASS I, OF THE THICKNESS AND MATERIALS AS SPECIFIED ON THE CONSTRUCTION PLANS. A BITUMINOUS MATERIALS AS SPECIFIED ON THE CONSTRUCTION PLANS. A BITUMINOUS MATERIAL PRIME COAT OF THE TYPE AND AT THE RATE SPECIFIED ON THE CONSTRUCTION PLANS SHALL BE APPLIED TO THE SUB-BASE COURSE, UNLESS SHOWN AS A BID ITEM. PRIME COAT SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRAC LL PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD
- THE MAXIMUM SIZE AGGREGATE FOR THE BITUMINOUS CONCRETE SURFACE COURSE MIXTURE SHALL BE THREE—EIGHTS (3/8) INCH. THE BITUMINOUS CONCRETE SORFACE COURSE MIXTURE SHALL BE BINDER MIXTURE B AS SPECIFIED IN ARTICLE 406.13 OF THE I.D.O.T. STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A BITUMINOUS MIX DESIGN TO THE ENGINEER PRIOR TO THE INSTALLATION OF THE BITUMINOUS MIX.
- BITUMINOUS CONCRETE BINDER COURSE SHALL BE PLACED ONLY WHEN THE AMBIENT AIR TEMPERATURE IS AT LEAST FORTY (40) DEGREES FAHRENHEIT. AND THE FORECAST CALLS FOR RISING TEMPERATURES. BITUMINOUS
  CONCRETE SURFACE COURSE SHALL BE PLACED ONLY WHEN THE AMBIENT AIR TEMPERATURE IS AT LEAST FORTY-FIVE (45) DEGREES FAHRENHEIT, AND THE FORECAST CALLS FOR RISING TEMPERATURES.
- WHEN PLACING THE BASE MATERIAL BETWEEN CURBS, THE CONTRACTOR SHALL EITHER MARK (WITH PAINT) ON THE FACE OF THE CURB FLAG THE SURFACE LEVEL OF THE BASE MATERIAL AT FIFTY (50) FOOT INTERVALS OF USE A GUIDE ON THE GRADER. THE PURPOSE FOR THIS IS TO PROVIDE A CONTROLLABLE GUIDE FOR THE SURFACE ELEVATION OF THE BASE MATERIAL ND TO INSURE SUFFICIENT DEPTH ALONG FACE OF CURB FLAG FOR THE
- AFTER THE INSTALLATION OF THE BASE COURSE, ALL TRAFFIC SHALL BE KEPT OFF THE BASE UNTIL THE BINDER COURSE IS LAID. AFTER NSTALLATION OF THE BINDER COURSE (AND FOR PUBLIC IMPROVEMENTS AFTER THE BINDER COURSE HAS BEEN IN PLACE FOR ONE WINTER). ANI THE COMPLETION OF INSPECTION OF SAME AND APPROVAL BY 1 LOCAL JURISDICTION AND OWNER, THE PAVEMENT SHALL BE CLEANED, PRIMED AND SURFACE COURSE LAID. ALL DAMAGED AREAS IN THE BINDER, BASE, OR CURB AND GUTTER SHALL BE REPAIRED TO THE SATISFACTION OF THE LOCAL CURB AND GUTTER SHALL BE REPAIRED TO THE SATISFACTION OF THE LOCAL JURISDICTION AND OWNER. PRIOR TO LAYING THE SURFACE COURSE, THE PAVING CONTRACTOR SHALL PROVIDE WHATEVER EQUIPMENT AND MANPOWER IS NECESSARY, INCLUDING THE USE OF POWER BROOMS, TO PREPARE THE PAVEMENT FOR APPLICATION OF THE SURFACE COURSE. EQUIPMENT AND MANPOWER FOR CLEANING SHALL BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT. PRIME COAT FOR THE BINDER COURSE SHALL ALSO BE CONSIDERED AS INCIDENTAL TO THE COST OF THE CONTRACT, AND SHALL BE APPLIED TO THE BINDER AT A RATE OF 0.05 GALLONS PER SQUARE YARD.
- PRIOR TO THE INSTALLATION OF THE BITUMINOUS SURFACE COURSE, BUT AFTER INSTALLATION OF THE BINDER COURSE, THE CONTRACTOR SHALL FURNISH THE DESIGN ENGINEER AND THE MUNICIPAL ENGINEER WITH A COPY OF A PAVEMENT EVALUATION PROGRAM REPORT OF THE COMPLETED PAVEMENT IMPROVEMENTS. THE PAVEMENT EVALUATION PROGRAM SHALL BE PERFORMED ACCORDING TO THE SPECIFICATIONS ON FILE IN THE OFFICE OF THE MUNICIPAL ENGINEER.
- COMBINATION CURB AND GUTTER (WHEN REQUIRED) SHALL BE OF THE TYPE AS DETAILED IN THE CONSTRUCTION PLANS. THE CONCRETE SHALL HAVE AN AIR CONTENT OF NOT LESS THAN FIVE (5) PERCENT NOR MORE THAN EIGHT (8) PERCENT OF THE VOLUME OF CONCRETE. CONCRETE SHALL BE A MINIMUM SIX (6) BAG MIX AND SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT FOURTEEN (14) DAYS. ALL CURB AND GUTTER SHALL BE BROOM FINISHED. THE CONTRACTOR IS CAUTIONED TO REFER TO HE CONSTRUCTION STANDARDS AND THE PAVEMENT CROSS-SECTION TO DETERMINE THE GUTTER FLAG THICKNESS AND THE AGGREGATE BASE COURSE THICKNESS BENEATH THE CURB AND GUTTER. THE AGGREGATE BENEATH THE CURB AND GUTTER SHALL BE INCLUDED IN THE UNIT PRICE OF THE CURB
- THREE-QUARTER (3/4) INCH PERMITTED FIBER EXPANSION JOINTS WITH 3/4" X 18" PLAIN ROUND STEEL DOWEL BARS SHALL BE INSTALLED AT SIXTY (60) FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S, CURB RETURNS, AND AT THE END OF EACH POUR. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. THREE-QUARTER (3/4) INCH THICK FIBER EXPANSION JOINTS SHALL BE USED IN EVERY CASE WHERE THE SIDEWALK COINCIDES WITH THE CURB AND GUTTER. CONTRACTION JOINTS SHALL BE PROVIDED AT TWENTY (20) FOOT (MAXIMUM) INTERVALS IN THE CURB. THE COST OF THESE JOINTS SHALL BE CONSIDERED AS INCIDENTAL T HE COST OF THE CONTRACT. ALL POURED IN PLACE CONCRETE CURB AND GUTTER SHALL INCORPORATE TWO (2) NO. 4 REINFORCING BARS TEN (10) FEET LONG INSTALLED WHEREVER THE CURB AND GUTTER CROSSES UTILITY SERVICES LINES, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL TO HE COST OF CONCRETE CURB AND GUTTER.
- CURBING AND PROTECTION OF ALL EXPOSED CONCRETE SURFACES SHALL BE N ACCORDANCE WITH THE STANDARD SPECIFICATIONS. NO HONEY-COMBING OF THE CURB AND GUTTER WILL BE ACCEPTED.
- CURBS SHALL BE DEPRESSED AT LOCATIONS WHERE PUBLIC WALKS/PEDESTRIAN PATHS INTERSECT, CURB LINES AT STREET INTERSECTIONS, AND OTHER LOCATIONS AS DIRECTED FOR THE PURPOSE OF PROVIDING ACCESS BY THE HANDICAPPED. (SEE CONSTRUCTION STANDARDS
- SIDEWALKS (WHERE REQUIRED) SHALL BE OF THE THICKNESS AND DIMENSIONS AS SHOWN IN THE CONSTRUCTION PLANS. PORTLAND CEMENT CONCRETE SIDEWALK SHALL BE A MINIMUM OF SIX (6) BAG MIX WITH AIR ENTRAINMENT TO SIX (6) PERCENT, AND SHALL DEVELOP A MINIMUM OF 3,500 PSI COMPRESSIVE STRENGTH AT TWENTY-EIGHT (28) DAYS. CONTRACTION JOINTS SHALL BE SET AT FIVE (5) FOOT CENTERS AND ONE-HALF (1/2) INCH PERMITTED FIBER EXPANSION JOINTS AT FIFTY (50) FOOT CENTERS AND WHERE THE SIDEWALK MEETS THE CURB, A BUILDING, OR ANOTHER SIDEWALK OR AT THE END OF EACH POUR. ALL SIDEWALKS CONSTRUCTED OVER UTILITY RENCHES SHALL BE REINFORCED WITH THREE (3) NO. 4 REINFORCING BARS (TEN FOOT MINIMUM LENGTH). ALL SIDEWALKS CROSSING DRIVEWAYS SHALL BE REINFORCED WITH 6 X 6 NO. 6 WELDED WIRE MESH. ALL SIDEWALK SHALL E BROOM FINISHED. BITUMINOUS CONCRETE SIDEWALK SHALL BE ONSTRUCTED OF CLAY SUBGRADE PREPARED AS DESCRIBED IN PARAGRAPH HREE ABOVE. THE BASE AND SURFACE COURSE MATERIAL AND CONSTRUCTION SPECIFICATIONS SHALL BE IN ACCORDANCE WITH PARAGRAPHS FOUR AND FIVE, EXCEPT THAT A "DRIVEWAY MIX" BITUMINOUS SURFACE
- BACKFILLING OF CURBS OR PAVEMENT SHALL BE THE RESPONSIBILITY OF THE
- . IT SHALL BE THE RESPONSIBILITY OF THE PAVING CONTRACTOR TO REMOVE FROM THE SITE ANY AND ALL MATERIALS AND DEBRIS WHICH RESULT FROM HIS CONSTRUCTION OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER TESTING OF THE SUB-BASE, BASE COURSE, BINDER COURSE, SURFACE COURSE, AND CONCRETE WORK SHALL BE REQUIRED IN ACCORDANCE WITH
  THE I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
  CONSTRUCTION, CURRENT EDITION, AND IN ACCORDANCE WITH THE SPECIFIC
  REQUIREMENTS OF THE MUNICIPALITY. A QUALIFIED TESTING FIRM SHALL BE
  EMPLOYED BY THE DEVELOPER TO PERFORM THE REQUIRED TESTS AND
- PROVIDE THE RESULTS TO THE CONSULTING ENGINEER AND THE MUNICIPALITY. PAINTED PAVEMENT MARKINGS AND SYMBOLS OF THE TYPE AND COLOR AS NOTED ON THE CONSTRUCTION PLANS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION T-502 OF SAME SPECIFICATIONS WITHIN THE PARKING LOTS, PRIVATE DRIVES. CURBS. AND WHEREVER ELSE SHOWN ON-SITE ON THE PLANS. PAINTED PAVEMENT MARKINGS AND SYMBOLS SHALL BE INSTALLED ONLY WHEN THE AMBIENT AIR TEMPERATURE IS FORTY (40) DEGREES FAHRENHEIT, AND THE FORECAST CALLS FOR RISING TEMPERATURES.

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