

DEVELOPER



ADVANTAGE NOTE

ADVANTAGE CONSULTING ENGINEERS IS TO BE NOTIFIED AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION. STAKING REQUESTS FIVE (5) DAYS NOTICE BETWEEN SEPTEMBER 15th AND DECEMBER 15th AND SHALL BE INCLUDED IN THE PRECONSTRUCTION MEETINGS



THESE PLANS ARE COLOR CODED. CONTRACTOR/REVIEWER WILL NEED TO PRINT IN COLOR OR VIEW PDF.

BENCHMARK ELEVATION: SEE SHEET EX1 FOR DESCRIPTION: BENCHMARK INFORMATION EXISTING TOTAL SITE AREA: 2.59 ACRES

PROPOSED PROJECT AREA: 2.59 ACRES



ISSUED FOR PERMIT

FINAL SITE IMPROVEMENT PLANS

FOR

LOMBARD VETERINARY HOSPITAL

244 E ST CHARLES ROAD LOMBARD, ILLINOIS 60148

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	REVISIONS										
ORIGINAL PLAN DATE: AUGUST 05, 2022											
#	Sheet #	REMARKS	DATE								
1	ALL	REVISED PER ARCHITECT/VILLAGE	11/23/22								
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11/23/202

DATE

AM J.

062-46121

REGISTERED

PROFESSIONAL

Dillion Zaluali
ENGINEER WILLIAM J ZALEWSKI, P.E.
BILLZ@ACENG.US

ILLINOIS REGISTRATION NO.: 062–046121 EXPIRATION DATE: 11/30/2023

PROFESSIONAL DESIGN FIRM NO.: 184–007386 EXPIRATION DATE: 4/30/2023

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 PAVING AND RELATED CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION BY ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO AND IN ACCORDANCE WITH THE LATEST EDITION OF THE SUBDIVISION REGULATIONS OF THE MUNICIPALITY. IN CASE OF CONFLICT, VILLAGE CODE SHALL TAKE PRECEDENCE. ALL STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND IN ACCORDANCE WITH THE CURRENT SUBDIVISION REGULATIONS OF THE MUNICIPALITY UNLESS OTHERWISE NOTED ON THE PLANS.

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 ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT.

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.

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.

A. 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. B. 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 ACCESS BE DENIED TO

8. ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED. 9. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE DEVELOPER'S ENGINEER AT CONTRACTOR'S COST. ALL FRAMES AND LIDS FOR STORM AND SANITARY SEWER STRUCTURES ARE TO BE ADJUSTED TO MEET FINAL FINISH GRADE. THIS

ADJUSTMENT IS TO BE MADE BY THE SEWER 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 VILLAGE UPON FINAL INSPECTION OF THE PROJECT. FINAL GRADES TO BE DETERMINED BY THE VILLAGE AT THE TIME OF FINAL INSPECTION AND MAY VARY

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. 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, CULVERTS, ETC. SHALL

BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. HE IS RESPONSIBLE FOR ANY PERMIT REQUIRED FOR SUCH

13. 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 TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE 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 BY OWNER &

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THE PROJECT AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD.

15. BEFORE ACCEPTANCE BY THE OWNER AND FINAL PAYMENT, ALL WORK SHALL BE INSPECTED BY THE OWNER OR HIS REPRESENTATIVE. FINAL PAYMENT WILL BE MADE AFTER ALL THE CONTRACTOR'S WORK HAS BEEN APPROVED AND ACCEPTED.

16. UPON AWARDING OF THE CONTRACT AND WHEN REQUIRED BY THE MUNICIPALITY, THE CONTRACTOR SHALL FURNISH A LABOR, MATERIAL AND PERFORMANCE BOND & INSURANCE IN THE AMOUNT REQUIRED BY THE MUNICIPALITY GUARANTEEING COMPLETION OF THE WORK. THE UNDERWRITER SHALL BE ACCEPTABLE TO THE MUNICIPALITY. 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, ADVANTAGE CONSULTING ENGINEERS IS RESPONSIBLE TO RESOLVE THE CONFLICT. ADVANTAGE CONSULTING ENGINEERS IS NOT RESPONSIBLE FOR THE COST OF CONSTRUCTION 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.

19. 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.

21. 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 COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY AND ALL PERMITS NECESSARY FOR TH HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.

22. IT SHALL BE 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 FOR STREET AND HIGHWAYS, LATEST EDITION AND IN CONFORMANCE WITH REGULATIONS OF THE

NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE VILLAGE. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE VILLAGE PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE AND PRIOR TO POURING ANY CONCRETE AFTER

24. 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. 25. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW

26. TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.

27. LIMB PRUNING SHALL BE PERFORMED UNDER THE SUPERVISION OF AN APPROVED LANDSCAPE ARCHITECT AND SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION.

29. ALL CUTS OVER 1" IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS OVER 1" IN DIAMETER SHALL BE

ANY DEWATERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE HE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK. IN THE EVENT THAT 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 ENGINEER) OVER-EXCAVATE TO A DEPTH OF AT LEAST ONE (1) FOOT BELOW THE BOTTOM OF THE PIPE AND BACKFILL WITH COMPACTED CRUSHED STONE, PROPERLY FORMED TO FIT THE BOTTOM OF THE

31. CONTRACTOR SHALL VIDEO TAPE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS. 32. TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE ALL UNDERGROUND UTILITIES WITHIN TWO FEET OF PROPOSED OF EXISTING PAVEMENTS, UTILITIES, BUILDINGS, AND SIDEWALKS. THE TRENCH BACKFILL SHALL BE DONE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS. THE TRENCH BACKFILL AND BEDDING MATERIAL SHALL CONSIST OF CRUSHED GRAVEL CONFORMING TO IDOT GRADATION

33. WHERE SHOWN ON THE PLANS OR AS 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 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STRUCTURES AND CONTRACT UNIT PRICE PER LINEAL FOOT FOR STORM SEWERS, WHICH SHALL BE PAYMENT IN FULL FOR CLEANING, PATCHING, REMOVAL AND DISPOSAL OF DEBRIS AND DIRT. DRAINAGE STRUCTURES AND SEWERS CONSTRUCTED AS PART OF THIS CONTRACT SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE.

34. HYDRANTS SHALL NOT BE FLUSHED DIRECTLY ON THE ROAD SUBGRADES. WHEREVER POSSIBLE, HOSES SHALL BE USED TO DIRECT THE WATER INTO STORM SEWERS. DAMAGE TO THE ROAD SUBGRADE OR LOT AREAS DUE TO EXCESSIVE WATER SATURATION AND/OR EROSION FROM HYDRANT FLUSHING OR FROM LEAKS IN THE WATER DISTRIBUTION SYSTEM, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FLUSHING OR USING HYDRANT TO MAKE ALL NECESSARY REPAIRS AT HIS EXPENSE. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION

AFTER THE STORM SEWER SYSTEM HAS BEEN CONSTRUCTED THE CONTRACTOR SHALL PLACE EROSION CONTROL AT LOCATIONS SHOWN ON THE PLANS OR AS SELECTED IN THE FIELD BY THE ENGINEER. THE PURPOSE OF THE EROSION CONTROL WILL BE TO MINIMIZE THE AMOUNT OF SILTATION, WHICH NORMALLY WOULD ENTER THE STORM SEWER SYSTEM FROM ADJACENT AND/OR UPSTREAM DRAINAGE AREAS. EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ILLINOIS URBAN MANUAL; AND SHALL BE MAINTAINED BY THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF GRASS ACCEPTABLE TO THE ENGINEER HAS BEEN DEVELOPED. 37. THE OWNER SHALL PROVIDE RECORD DRAWINGS PER MUNICIPAL REQUIREMENTS.





ASTM NO. 57 ASTM NO. 2

N.T.S

NOTES:

1. ALL AGGREGATE MATERIAL SHALL BE CRUSHED, ANGULAR STONE AND FREE OF FINES.

- GEOTECHNICAL ENGINEER.
- SOILS WITH HIGH ORGANIC CONTENT.

















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Nervey Normalization Normalization </td <td>CONTROL MEASURE GROUP</td> <td>CONTROL MEASURE</td> <td>APPL.</td> <td>KEY</td> <td>CONTROL MEASURE CHARACTERISTICS</td> <td>TEMP.</td> <td>PERMNT</td> <td>MAINTENANCE FREQUENCY</td> <td>thi Illi Erc</td> <td>S PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF NPDES PERMIT NUMBER ILR10, ISSUED BY THE NOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES AND SOIL ISION AND SEDIMENT CONTROL ORDINANCE FOR THE COUNTY.</td> <td></td>	CONTROL MEASURE GROUP	CONTROL MEASURE	APPL.	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMNT	MAINTENANCE FREQUENCY	thi Illi Erc	S PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF NPDES PERMIT NUMBER ILR10, ISSUED BY THE NOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES AND SOIL ISION AND SEDIMENT CONTROL ORDINANCE FOR THE COUNTY.	
NACENAL OVER Personal status Personal stat		TEMPORARY SEEDING		শ্বে	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	x		REDO ANY FAILING AREAS.	1.	SITE DESCRIPTION.	
	VEGETATIVE	PERMANENT SEEDING	$\mathbf{\nabla}$	PS	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		x	REDO ANY FAILING AREAS.	1.	THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY FOLLOWING MASS GRADING WHICH IS THE SUBJECT OF THIS PLAN:	
NormN	SOIL COVER	DORMANT SEEDING	ľ	68	SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.	x	x	RE-SEED IF NEEDED.	1	THE PROPOSED DEVELOPMENT CONSISTS OF CONSTRUCTION OF <u>LOMBARD ANIMAL HOPSITAL</u> DEVELOPMENT THE CONSTRUCTION ACTIVITIES FOR SITE IMPROVEMENTS INCLUDE:	
Number Norms Number Norms Norms <td></td> <td>SODDING</td> <td></td> <td>60</td> <td>QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGE WAYS WHERE SEEDING MAY BE DIFFICULT.</td> <td></td> <td>x</td> <td>N/A</td> <td>A.</td> <td>MASS GRADING DAVEMENT CONSTRUCTION</td> <td></td>		SODDING		60	QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGE WAYS WHERE SEEDING MAY BE DIFFICULT.		x	N/A	A.	MASS GRADING DAVEMENT CONSTRUCTION	
NOME ONME OP NUMBER OF CONSTRUCT STRUCTURE		MACHINE TRACKING		6	PROVIDES SOIL ROUGHING FOR EROSION CONTROL.	x		N/A	В. С. D.	INSTALLATION OF UTILITIES INCLUDING STORM SEWERS SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, AS A MINIMUM.	
Model Model Contraction Contraction Contraction Model Contraction Contraction Contraction Contraction Contraction Model Contraction Contract	NON VEGETATIVE	POLYMER		P	ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. PROVIDES TEMPORARY COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	x		REAPPLY EVERY 1 ¹ / ₂ MONTHS.	2.	THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE SITE, SUCH AS GRUBBING, EXCAVATION, AND GRADING:	
NMANMANNN <td>SOIL COVER</td> <td>AGGREGATE COVER</td> <td></td> <td>ÂĜ</td> <td>PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.</td> <td>x</td> <td>x</td> <td>CLEAN UP DIRT FROM STONE AS NEEDED.</td> <td>1</td> <td>THE SEQUENCE OF THE CONSTRUCTION ACTIVITIES MAY BE AS FOLLOWS:</td> <td></td>	SOIL COVER	AGGREGATE COVER		ÂĜ	PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.	x	x	CLEAN UP DIRT FROM STONE AS NEEDED.	1	THE SEQUENCE OF THE CONSTRUCTION ACTIVITIES MAY BE AS FOLLOWS:	
Note: <th< td=""><td></td><td>PAVING</td><td>$\mathbf{\nabla}$</td><td>\bigcirc</td><td>PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.</td><td></td><td>x</td><td>N/A</td><td>]</td><td>A INSTALL SILT FILTER FENCE AND STABILIZED CONSTRUCTION ENTRANCE B MASS GRADING C LINDERCOLIND LITHITIES INSTALLATION</td><td></td></th<>		PAVING	$\mathbf{\nabla}$	\bigcirc	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		x	N/A]	A INSTALL SILT FILTER FENCE AND STABILIZED CONSTRUCTION ENTRANCE B MASS GRADING C LINDERCOLIND LITHITIES INSTALLATION	
Member of the matrix		RIDGE DIVERSION		R	TYPICALLY USED ABOVE SLOPES TO COLLECT FLOW AND TRANSFER DOWNSLOPE.	x	x	CLEAN SILT OUT WHEN HALF-FULL.]	D FINE GRADING IN PAVEMENT AREA E PAVEMENT CONSTRUCTION	
DMDROM No. No		CHANNEL DIVERSION		8	TYPICALLY USED TO DIVERT FLOW.	x	x	REPLACE PROTECTION WHEN NEEDED.		THE SOIL EROSION AND SEDIMENTATION CONTROL ITEMS WILL BE INSTALLED FIRST AND AS NEEDED DURING THE ABOVE CONSTRUCTION ACTIVITIES.	
Image: Market of the second	DIVERSIONS	COMBINATION DIVERSION		8	TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.	x	x	REPLACE PROTECTION WHEN NEEDED.	3.	THE TOTAL ESTIMATED AREA OF THE SITE IS <u>2.59</u> ACRES. THE TOTAL ESTIMATED AREA OF THE SITE TO BE DISTURBED BY EXCAVATION GRADING OR OTHER ACTIVITIES IS	
IndextImage: state of the state		CURB AND GUTTER	$\mathbf{>}$	8	SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		x	N/A		2.59 ACRES.	
NATURE Nome <		BENCHES		B	SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY.	x	x	N/A	4.	IN THE ESTIMATED RUNOFF COEFFICIENTS OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED AND CONTAINED IN THE PROJECT DRAINAGE STUDY, TITLED STORM WATER MANAGEMENT FOR <u>LOMBARD ANIMAL HOSPITAL</u> PREPARED BY ADVANTAGE CONSULTING ENGINEERS WHICH IS HEREBY INCORPORATED BY REFERENCE IN THIS PLAN.	
Mint Min Lub Co Walk Image Mint Minister Image Mint Minister Mint Minister Mint Minister Mint Minister Mint Minister Mint Minister <		VEGETATIVE CHANNEL		3	PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.	x	x	REDO ANY FAILING AREAS.		THE ESTIMATED PROPOSED OVERALL SITE RUNOFF COEFFICIENT IS <u>0.8</u>	
BORNOM BORNOM CONDUCTConstrained of the second of th	WATERWATS	LINED CHANNEL		9	USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		x	REPLACE PROTECTION WHEN NEEDED.		NAME OF RECEIVING WATER(S) <u>EXISTING STORM SEWER</u>	
DAMAKE With Dominian Constraints	ENCLOSED	STORM SEWER	$\mathbf{>}$		CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		x	CLEAN SEDIMENT OUT.		NAME OF ULTIMATE RECEIVING WATER(S) <u>SALT_CCREEK</u> WETLAND ACREAGE <u>NAME</u>	
SPICAT Sinder THPE SPLLAW Sold Sinder THPE SPLLAW Sinder THPE SPLLAW <thsinder spllaw<="" th="" thpe=""> Sinder THPE SPLL</thsinder>	DRAINAGE	UNDER DRAIN	$\left \right>$	9	USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS.		x	N/A	5.	POTENTIAL SOURCES OF POLLUTION ASSOCIATED WITH CONSTRUCTION ACTIVITY MAY INCLUDE:	
SPLICATE Description Set Contraction Set Contraction Set Contraction VIDE PLLANC C Set Contraction C Set Contraction C Set Contraction		STRAIGHT PIPE SPILLWAY		(P3)	USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.		x	CLEAN OUT CONSTRUCTION DEBRIS.		B PORTABLE SANITARY STATIONS C FUEL TANKS	
BATELINAN Image: Second Decision		DROP INLET PIPE SPILLWAY		ØS	SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		x	CLEAN OUT CONSTRUCTION DEBRIS.		D STAGING AREAS E WASTE CONTAINERS F CHEMICAL STORAGE AREAS	
International biology Image: Second sec	SPILLWATS	WEIR SPILLWAY		(\mathbf{v})	USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.		x	CLEAN OUT CONSTRUCTION DEBRIS.		G OIL OR OTHER PETROLEUM PRODUCTS H ADHESIVES L TAR	
OUTLETS LIND AFRON LIND LIND AFRON LIND AFRON <thlind afron<="" th=""> <thlind afron<="" th=""> <t< td=""><td></td><td>BOX INLET WEIR SPILLWAY</td><td></td><td>ß</td><td>SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.</td><td></td><td>x</td><td>CLEAN OUT CONSTRUCTION DEBRIS.</td><td></td><td>J SOLVENTS K DETERGENTS</td><td></td></t<></thlind></thlind>		BOX INLET WEIR SPILLWAY		ß	SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.		x	CLEAN OUT CONSTRUCTION DEBRIS.		J SOLVENTS K DETERGENTS	
SEDURENT BASINS SEDURENT TWO Image: Set the set of th	OUTLETS	LINED APRON		٩	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.		x	REPAIR DISLODGED STONES OR EROSION UNDER RIP-RAP AS NEEDED		L FERTILIZERS M RAW MATERIALS (E.G., BAGGED PORTLAND CEMENT) N CONSTRUCTION DEBRIS	
BASINS SERVENT TAP Image: Ima	SEDIMENT	SEDIMENT BASIN		SB	USED TO COLLECT SMALLER PARTICLES – DETAIN WATER WITH CONTROLLED RELEASE.	x	x	CLEAN SEDIMENT OUT WHEN HALF-FULL.		0 LANDSCAPE WASTE P CONCRETE AND CONCRETE TRUCKS 0 LITTER	
SECIMENT FLUENS SLT FIDE	BASINS	SEDIMENT TRAP		ঙা	USED TO COLLECT LARGER PARTICLES - DETAIN WATER WITH CONTROLLED RELEASE.	x		CLEAN SEDIMENT OUT WHEN HALF-FULL.	2.	CONTROLS.	
FLICTES VESCHAME FLICE VES IDD 450 CONTROL VES I	SEDIMENT	SILT FENCE	$\left \right>$	(F	USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN $1/2$ ACRE TO FILTER SEDIMENT FROM RUNOFF.	x		CLEAN SEDIMENT OUT WHEN SILT IS HALF-FULL. REPAIR ANY DAMAGED SILT FENCE WHEN NEEDED.		THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR	
MUD DUST CONTROL Stallize Const. Entrance Stallize Const.	FILTERS	VEGETATIVE FILTER		(F)	USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA.	x		REDO ANY FAILING AREAS.		RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. EACH SUCH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH ARE INCLUDED AS A PART OF THIS PLAN.	
CONTROL OUST CONTROL	MUD AND	STABILIZED CONST. ENTRANCE	\geq	SE	PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	x		SCRAPE MUD AND REPLACE STONE AS NEEDED.	1.	EROSION AND SEDIMENT CONTROLS.	
EPSSION CONTROL BLANKET Image: Solution blanket Image: Solutio	CONTROL	DUST CONTROL	\geq	() ()	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	x		RE-APPLY AS NEEDED.		STABILIZATION PRACTICES. PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE—SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED.	
TURF REINFORCEMENT MAT Image: Relinforcement data is submationed and relinforcement data is submaticed and relinforcement data is submatined andifforcement data is submatined and relinforcem		EROSION CONTROL BLANKET		B	PROTECTS SOIL, SEED AND HELPS GROW VEGETATION.	x	x	REPLACE AS NEEDED		EXCEPT AS PROVIDED IN 2, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN	
CONTROL CELLUAR CONFINEMENT CO USED TO HOUSE TO PROJECT INDOIS NOT STEP 240°ES. X X X Refuce As NEEDED CONTROL GABIONS CO USED TO HOUSE TO PROJECT INDOIS NO VIEW FIGHT INDOI ADDISES X X Refuce As NEEDED PROJECTION PROJECTION PROJECTION X X Refuce As NEEDED X PROJECTION PROJECTION PROJECTION V PROJECTION		TURF REINFORCEMENT MAT			REINFORCES TURF IN CHANNELS AND SHORELINES.	x	x	REPLACE AS NEEDED		ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.	
CONTROL GABIONS Lists to prevent tooson in very noin flow very noin flow very noin region in very noin region regi	EROSION	CELLULAR CONFINEMENT		CF	USED TO HOLED TOPSOIL ON STEEP SLOPES.	x	x	REPLACE AS NEEDED		WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BY INITIATED AS SOON AS	
GEOTEXTLE FABRIC Image: Second procession / second procesin / second procession / second procession	CONTROL	GABIONS		(GA)	USED TO PREVENT EROSION IN VERY HIGH FLOW AREAS.		x	REPLACE AS NEEDED		PRACTICABLE THEREAFTER.	
GEOBLOCK POROUS PAVEMENT IPP USED FOR FRE LAVE ACCESS / VEGETINE PAVEMENT. IX X REPLACE AS NEEDED A A POWER POWER <td></td> <td>GEOTEXTILE FABRIC</td> <td></td> <td>GF</td> <td>USED FOR EROSION / SEDIMENT CONTROL/ SEPARATION / STABILIZATION.</td> <td>x</td> <td>x</td> <td>REPLACE AS NEEDED</td> <td></td> <td>THE DISTURBED AREA OF THE SITE:</td> <td></td>		GEOTEXTILE FABRIC		GF	USED FOR EROSION / SEDIMENT CONTROL/ SEPARATION / STABILIZATION.	x	x	REPLACE AS NEEDED		THE DISTURBED AREA OF THE SITE:	
INLET PROTECTION Isol for protection of inlets. X Replace or clan when closed. SLOPE INTERRUPT Isol used for protection of inlets. X X clean out when HLAF-FULL of silt. DTCH CHECK Isol used for flow segment control in strates and channels. X X clean out when HLAF-FULL of silt. FLOC LOG Isol used for flow segment control in strates and channels. X X clean out when HLAF-FULL of silt. SLOPE INTERRUPT Isol used for flow segment control in strates and channels. X X clean out when HLAF-FULL of silt. FLOC LOG Isol used for flow segment control in strates requires X Replace when HLAF-FULL for the clean water act. PUMPING discharge BAG Isol for prouge provided p		GEOBLOCK POROUS PAVEMENT		PP	USED FOR FIRE LANE ACCESS / VEGETATIVE PAVEMENT.		×	REPLACE AS NEEDED		A PERMANENT SEEDING B SILT FILTER FENCE C VEGETATIVE FILTER	
SLOPE INTERRUPT Ised to break up the flow on a slope. X X Clean out when hlaf-full of slit. DTCH CHECK Image: Slope interrupt Image: Slope inte		INLET PROTECTION			USED FOR PROTECTION OF INLETS.	x		REPLACE OR CLEAN WHEN CLOGGED.	2	D STABILIZED CONSTRUCTION ENTRANCE STRUCTURAL PRACTICES PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED	
DITCH CHECK Image: Discursion of the cuese of the		SLOPE INTERRUPT		S	USED TO BREAK UP THE FLOW ON A SLOPE.	x	x	CLEAN OUT WHEN HLAF-FULL OF SILT.		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. THE INSTALLATION OF THESE DEVICES MAY BE	
SEDIMENT CONTROL FLOC LOG Ised to clarify water that has sediment in the watery column. X Replace when half pissolved. B STORM Sedies SYSTEM SILT CURTAIN SO Used for sediment control in stream / pond. X Replace when half-full, fabric is torn or holes 0 Used for puwp discharge lines. X Replace when half-full, fabric is torn or holes 0 Used for puwp discharge lines. X Replace when half-full, fabric is torn or holes 0 Used for concrete trucks to washout. X Replace when half-full, fabric is torn or holes 0 Used control shall be provided per standard 825 of illinois urban wanual. The following wellhops for the dust control con		DITCH CHECK		00	USED FOR FLOW SEDIMENT CONTROL IN SWALES AND CHANNELS.	X		CLEAN OUT WHEN HLAF-FULL OF SILT.		A DETENTION POND	
SILT CURTAIN So Used For sediment control in stream / pond. X Replace when Fabric is torn or holes Begin to Form. Silt curtain So Used For sediment control in stream / pond. X Replace when Fabric is torn or holes Begin to Form. So Dust control shall be provided per standard 825 of illinois urban manual. The Following methods for the dust control can be used. PUMPING DISCHarge Bag Image: sediment control in stream / pond. X Replace when half-full, fabric is torn or holes or holes begin to form. So Dust control shall be provided per standard 825 of illinois urban manual. The Following methods for the dust control can be used. Concrete washout Image: sediment s	SEDIMENT	FLOC LOG		ſ.	USED TO CLARIFY WATER THAT HAS SEDIMENT IN THE WATERY COLUMN.	X		REPLACE WHEN HALF DISSOLVED.]	B STORM SEWER SYSTEM C RIP-RAP FOR OUTLET PROTECTION D INLET PROTECTION	
PUMPING DISCHARGE BAG V PB USED FOR PUMP DISCHARGE LINES. X REPLACE WHEN HALF-FULL, FABRIC IS TORN, OR HOLES BEGIN TO FORM. A IRRIGATION CONCRETE WASHOUT V ØP FOR CONCRETE TRUCKS TO WASHOUT. X CLEAN OUT WHEN HALF-FULL, CLEAN WASHOUT GRAVEL AREA AS NEEDED. A IRRIGATION STREET SWEEPING V ØS USED TO PREVENT SILT BUILD UP IN STREETS. X CLEAN ONCE A WEEK, OR AS NEEDED. A MULCHING 4. STORM WATER MANAGEMENT. X CLEAN ONCE A WEEK, OR AS NEEDED. A STORM WATER MANAGEMENT.	CONTROL	SILT CURTAIN		SC	USED FOR SEDIMENT CONTROL IN STREAM / POND.	X		REPLACE WHEN FABRIC IS TORN OR HOLES BEGIN TO FORM.	3.	DUST CONTROL: DUST CONTROL SHALL BE PROVIDED PER STANDARD 825 OF ILLINOIS URBAN MANUAL. THE	
CONCRETE WASHOUT FOR CONCRETE TRUCKS TO WASHOUT. X CLEAN OUT WHEN HALF-FULL, CLEAN WASHOUT GRAVEL AREA AS NEEDED. B SPRAY ON ADHESIVE COVER D STREET SWEEPING V SS USED TO PREVENT SILT BUILD UP IN STREETS. X CLEAN ONCE A WEEK, OR AS NEEDED TO KEEP STREET CLEAN. D MULCHING 4. STORM WATER MANAGEMENT.		PUMPING DISCHARGE BAG	\mid	PB	USED FOR PUMP DISCHARGE LINES.	X		REPLACE WHEN HALF-FULL, FABRIC IS TORN, OR HOLES BEGIN TO FORM.]	A IRRIGATION	
STREET SWEEPING Used to prevent silt build up in streets. X Clean once a week, or as needed to keep street clean. 4. STORM WATER MANAGEMENT.		CONCRETE WASHOUT	\mid		FOR CONCRETE TRUCKS TO WASHOUT.	X		CLEAN OUT WHEN HALF-FULL, CLEAN WASHOUT GRAVEL AREA AS NEEDED.]	B SPRAY ON ADHESIVE C VEGETATIVE COVER D MULCHING	
		STREET SWEEPING		s	USED TO PREVENT SILT BUILD UP IN STREETS.	X		CLEAN ONCE A WEEK, OR AS NEEDED TO KEEP STREET CLEAN.	4.	STORM WATER MANAGEMENT.	

<u>RIP-RAP DIMENSION TABLE</u>

STRUCTURE NUMBER/POND	INLET PIPE SIZE d (IN)	DISCHARGE Q (CFS)	LENGTH OF APRON La (FT)	MEDIAN RIPRAP SIZE C (IN)	WIDTH OF APRON U/S FACE W1 (FT)	WIDTH OF APRON D/S FACE W2 (FT)	DEPTH OF RIP RAP d (IN)	AREA OF RIP RAP (SQ.YDS.)	VOLUME OF RIP RAP (CU.YDS.)
ALL	12 & UNDER		10	6	3.00	13.00	15	8.89	3.7
ALL	15		10	6	3.75	13.75	15	9.72	4.1
ALL	18		15	9	4.50	19.50	20	20.00	11.1
ALL	21		15	9	5.25	20.25	20	21.25	11.8
ALL	24		18	9	6.00	24.00	20	30.00	16.7
ALL	27		18	9	6.75	24.75	20	31.50	17.5
ALL	30		20	9	7.50	27.50	20	38.89	21.6
ALL	36		24	12	9.00	33.00	28	56.00	43.6
ALL	42		27	12	10.5	37.50	30	72.00	60.0
ALL	48		27	15	12.0	39.00	32	76.50	68.0
ALL	54		27	15	13.5	40.50	32	81.00	72.0
ALL	60		36	15	15.0	51.00	32	132.00	118.0
ALL	72		44	18	18.0	62.00	32	195.56	174.0

DESCR

OBSERVATION	& MAINTENANCE	E SCHEDULE
ACTIVITY	RESPONSIBLE PARTY	DURATION
STABILIZATION DURING CONSTRUCTION- MAINTENANCE	CONTRACTOR	DURING CONSTRUCTION
STABILIZATION DURING CONSTRUCTION- OBSERVATION	DEVELOPER/OWNER	WEEKLY & AFTER EACH RAINFALL EVENT IN EXCESS OF 0.5".
VEGETATION MAINTENANCE	CONTRACTOR	1 YEAR FROM COMPLETION
VEGETATION STABILIZATION MAINTENANCE	DEVELOPER/OWNER	ONGOING FROM CONSTRUCTION COMPLETION

		CONS	TRUC	TION	SCHE	DULE-	-2023	-24	
PTION	MON-1	MON-2	MON-3	MON-4	MON-5	MON-6	MON-7	MON-8	MON-
CONTROL									
EARING									
RADING									

CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT. THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF THE TECHNICAL GUIDANCE CONTAINED IN IEPA'S STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL, AND OTHER ORDINANCES LISTED IN THE SPECIFICATIONS.

THE STORM WATER POLLUTANT CONTROL MEASURES SHALL INCLUDE:

- BARRIER FILTERS
- STORM SEWERS
- RETENTION/DETENTION PONDS PERMANENT SEEDING
- OUTLET PROTECTION
- 5. VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G., MAINTENANCE OF HYDROLOGIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES).

STORM WATER MANAGEMENT CONTROL INCLUDES:

- RIP-RAP FOR OUTLET PROTECTION (SEE RIP RAP TABLE FOR QUANTITY) B DITCH CHECK
- 3. APPROVED STATE OR LOCAL PLANS.

THE MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS CONTAINED IN THIS PLAN ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION PLAN, AND THE MUNICIPAL SUBDIVISION ORDINANCE. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION CONTROL SITE PLANS OR SITE PERMITS OR STORMWATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI TO BE AUTHORIZED TO DISCHARGE UNDER THIS PERMIT, INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

WASTE MANAGEMENT

- SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIALS, MACHII TOOLS AND OTHER ITEMS WILL BE COLLECTED AND DISPOSED OF OFF SITE BY THE CONTRACTORS. THE CONT ARE RESPONSIBLE TO ACQUIRE THE PERMIT REQUIRED FOR SUCH DISPOSAL. BURNING ON SITE WILL NOT BE PERMITTED. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF T EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. ALL WASTE MATERIALS SHOULD BE COLLECTED AND STU APPROVED RECEPTACLES. NO WASTES SHOULD BE PLACED IN ANY LOCATION OTHER THAN IN THE APPROVED CONTAINERS APPROPRIATE FOR THE MATERIALS BEING DISCARDED. THERE SHOULD BE NO LIQUID WASTES DEPOSITED INTO DUMPSTERS OR OTHER CONTAINERS WHICH MAY LEAK. RECEPTACLES WITH DEFICIENCIES SH REPLACED AS SOON AS POSSIBLE AND THE APPROPRIATE CLEAN-UP PROCEDURE SHOULD TAKE PLACE, IF NEI CONSTRUCTION WASTE MATERIAL IS NOT TO BE BURIED ON SITE. WASTE DISPOSAL SHALL COMPLY WITH ALL I
- ON-SITE HAZARDOUS MATERIAL STORAGE SHOULD BE MINIMIZED AND STORED IN LABELED, SEPARATE RECEPTAG FROM NON-HAZARDOUS WASTE. ALL HAZARDOUS WASTE SHOULD BE DISPOSED OF IN THE MANNER SPECIFIED LOCAL OR STATE REGULATIONS OR BY THE MANUFACTURER.
- CONCRETE WASTE MANAGEMENT

STATE, AND FEDERAL REGULATIONS.

CONCRETE WASTE OR WASHOUT IS NOT ALLOWED IN THE STREET OR ALLOWED TO REACH A STORM WATER DR SYSTEM OR WATERCOURSE. WHEN PRACTICABLE, A SIGN SHOULD BE POSTED AT EACH LOCATION TO IDENTIFY WASHOUT. TO THE EXTENT PRACTICABLE, CONCRETE WASHOUT AREAS SHOULD BE LOCATED A REASONABLE DIS FROM A STORM WATER DRAINAGE INLET OR WATERCOURSE. AND SHOULD BE LOCATED AT LEAST 10 FEET CURB, IF THE WASHOUT AREA IS ADJACENT TO A PAVED ROAD. A STABILIZED ENTRANCE THAT MEETS ILLINOIS MANUAL STANDARDS SHOULD BE INSTALLED AT EACH WASHOUT AREA.

THE CONTAINMENT FACILITIES SHOULD BE OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND WASTE MATERIALS INCLUDING ENOUGH CAPACITY FOR ANTICIPATED LEVELS OF RAINWATER. THE DRIED CONCRE WASTE MATERIAL SHOULD BE PICKED UP AND DISPOSED OF PROPERLY WHEN 66% CAPACITY IS REACHED. HA CONCRETE CAN BE PROPERLY RECYCLED AND USED AGAIN ON SITE (AS APPROVED BY THE ENGINEER) OR HA OFF SITE TO AN APPROPRIATE LANDFILL.

CONCRETE CUTTING

CONCRETE WASTE MANAGEMENT SHOULD BE IMPLEMENTED TO CONTAIN AND DISPOSE OF SAW-CUTTING SLURRI CONCRETE CUTTING SHOULD NOT TAKE PLACE DURING OR IMMEDIATELY AFTER A RAINFALL EVENT. WASTE GEN FROM CONCRETE CUTTING SHOULD BE CLEANED-UP AND DEPOSITED INTO THE CONCRETE WASHOUT FACILITY / DESCRIBED ABOVE.

VEHICLE STORAGE AND MAINTENANCE

WHEN NOT IN USE, CONSTRUCTION VEHICLES SHOULD BE STORED IN A DESIGNATED AREA(S) OUTSIDE OF THE REGULATORY FLOODPLAIN, AWAY FROM ANY NATURAL OR CREATED WATERCOURSE, POND, DRAINAGE-WAY OR S DRAIN. CONTROLS SHOULD BE INSTALLED TO MINIMIZE THE POTENTIAL OF RUNOFF FROM THE STORAGE AREA(S REACHING STORM DRAINS OR WATER COURSES. VEHICLE MAINTENANCE (INCLUDING BOTH ROUTINE MAINTENANC WELL AS ON-SITE REPAIRS) SHOULD BE MADE WITHIN A DESIGNATED AREA(S) TO PREVENT THE MIGRATION OF MECHANICAL FLUIDS (OIL, ANTIFREEZE, ETC.) INTO WATERCOURSES, WETLANDS OR STORM DRAINS. DRIP PANS ABSORBENT PADS SHOULD BE USED FOR ALL VEHICLE AND EQUIPMENT MAINTENANCE ACTIVITIES THAT INVOLVE OIL, SOLVENTS, OR OTHER VEHICLE FLUIDS. CONSTRUCTION VEHICLES SHOULD BE INSPECTED FREQUENTLY ANY LEAKS; LEAKS SHOULD BE REPAIRED IMMEDIATELY OR THE VEHICLE SHOULD BE REMOVED FROM SITE. OF ALL USED OIL, ANTIFREEZE, SOLVENTS AND OTHER VEHICLE-RELATED CHEMICALS IN ACCORDANCE WITH UN STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) AND IEPA REGULATIONS AND PER MATERIAL SAFETY DAT/ (MSDS) AND/OR MANUFACTURER INSTRUCTIONS. CONTRACTORS SHOULD IMMEDIATELY REPORT SPILLS TO THE CONTACT.

MATERIAL STORAGE AND GOOD HOUSEKEEPING

MATERIALS AND/OR CONTAMINANTS SHOULD BE STORED IN A MANNER THAT MINIMIZES THE POTENTIAL TO DISC INTO STORM DRAINS OR WATERCOURSES. AN ON-SITE AREA SHOULD BE DESIGNATED FOR MATERIAL DELIVER' STORAGE. ALL MATERIALS KEPT ON SITE SHOULD BE STORED IN THEIR ORIGINAL CONTAINERS WITH LEGIBLE L AND IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. LABELS SHOULD BE REPLACED IF DAMAGED OR TO READ. BERMED-OFF STORAGE AREAS ARE AN ACCEPTABLE CONTROL MEASURE TO PREVENT CONTAMINATION STORM WATER. MATERIAL SAFETY DATA SHEETS (MSDS) SHOULD BE AVAILABLE FOR REFERENCING CLEAN-UP PROCEDURES. ANY RELEASE OF CHEMICALS/CONTAMINANTS SHOULD BE IMMEDIATELY CLEANED UP AND DISPOS PROPERLY. CONTRACTORS SHOULD IMMEDIATELY REPORT ALL SPILLS TO THE PRIMARY CONTACT, WHO SHOULD THE APPROPRIATE AGENCIES, IF NEEDED.

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED ON SITE DURING THE CONSTRUCTION AN EFFORT SHOULD BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

ALL MATERIALS STORED ON SITE SHOULD BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND ADEQUATELY PROTECTED FROM THE ENVIRONMENT. PRODUCTS SHOULD BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. SUBSTANCES SHOULD NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. OPERATIONS SHOULD BE OBSERVED AS NECESSARY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS O WHENEVER POSSIBLE, ALL OF A PRODUCT SHOULD BE USED BEFORE DISPOSING OF THE CONTAINER.

- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. MANAGEMENT OF PORTABLE SANITARY STATIONS

TO THE EXTENT PRACTICABLE, PORTABLE SANITARY STATIONS SHOULD BE LOCATED IN AN AREA THAT DOES NO TO ANY PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR STORM WATER STRUCTURES AND SHALL BE ANCHORED TO THE GROUND TO PREVENT FROM TIPPING OVER. PORTABLE SANITARY STATIONS LOCATED ON IMPERVIOUS SURFACES SHOULD BE PLACED ON TOP OF A SECONDARY CONTAINMENT DEVICE, OR BE SURROUI A CONTROL DEVICE (E.G., GRAVEL-BAG BERM). THE CONTRACTOR SHOULD PREVENT/AVOID UNSANITARY CO SANITARY WASTE SHOULD BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE AND/OR LOCAL REGULAT

SPILL PREVENTION AND CLEAN-UP PROCEDURES

MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP SHOULD BE AVAILABLE AND SITE PERSONNEL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN-UP SUPPLIES. AND EQUIPMENT NECESSARY FOR SPILL CLEAN-UP SHOULD BE KEPT IN THE MATERIAL STORAGE AREA ON SIT EQUIPMENT AND MATERIALS SHOULD INCLUDE, BUT ARE NOT LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC AND/OR METAL TRASH CONTAINERS SPECIFICALLY FOR PURPOSE

DE-WATERING OPERATIONS

DURING DE-WATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHAF PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH I PERMITS). INLET HOSES SHOULD BE PLACED IN A STABILIZED SUMP PIT OR FLOATED AT THE SURFACE OF IN ORDER TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. PUMPING OPERATIONS MAY BE DISCHARGED TO A STA AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (E.G., STONE), SEDIMENT FILTER BAG, OR BOTH. EROSION CONTROLS SHOULD BE USED DURING DE-WATERING OPERATIONS AS NECESSARY. STABILIZED CONVEY/ CHANNELS SHOULD BE INSTALLED TO DIRECT WATER TO THE DESIRED LOCATION AS APPLICABLE. ADDITIONAL MEASURES MAY BE INSTALLED AT THE OUTLET AREA AT THE DISCRETION OF THE PRIMARY CONTACT OR ENGINE

OFF-SITE VEHICLE TRACKING

THE SITE SHOULD HAVE ONE OR MORE STABILIZED CONSTRUCTION ENTRANCES IN CONFORMANCE WITH THE PL DETAILS. STABILIZED CONSTRUCTION ENTRANCE(S) SHOULD BE INSTALLED TO HELP REDUCE VEHICLE TRACKING SEDIMENTS. STREETS SHOULD BE SWEPT AS NEEDED TO REDUCE EXCESS SEDIMENT, DIRT, OR STONE TRACKE THE SITE. MAINTENANCE MAY INCLUDE: TOP DRESSING THE STABILIZED ENTRANCE WITH ADDITIONAL STONE AN REMOVING TOP LAYERS OF STONE AND SEDIMENT, AS NEEDED. VEHICLES HAULING ERODIBLE MATERIAL TO AND THE CONSTRUCTION SITE SHOULD BE COVERED WITH A TARP.

16. TOPSOIL STOCKPILE MANAGEMENT

IF TOPSOIL IS TO BE STOCKPILED AT THE SITE, SELECT A LOCATION SO THAT IT WILL NOT ERODE, BLOCK DRA OR INTERFERE WITH WORK ON SITE. TOPSOIL STOCKPILES SHALL NOT BE LOCATED IN THE 100-YEAR FLOODI OR DESIGNATED BUFFER PROTECTING WATERS OF THE STATE. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHOULD BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. PERIMETER CONTROL AS SILT FENCE, SHOULD BE PLACED AROUND THE STOCKPILE IMMEDIATELY. STABILIZATION OF THE STOCKPILE BE COMPLETED IF THE STOCKPILE IS TO REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS.

3. <u>MAINTENANCE</u>

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES TO WILL BE USED TO MAINTAIN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE ME IDENTIFIED IN THIS PLAN AND STANDARD SPECIFICATIONS.

- STABILIZED CONSTRUCTION ENTRANCE: THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OF SEDIMENT ONTO PUBLIC STREETS. THIS WILL BE DONE BY TOP DRESSING WITH ADDITIONAL STONE, REMO REPLACE TOP LAYER OF STONE OR WASHING THE ENTRANCE. THE SEDIMENT WASHED ON THE PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY.
- VEGETATIVE EROSION CONTROL MEASURES: THE VEGETATIVE GROWTH OF TEMPORARY AND PERMANENT SODDING, VEGETATIVE CHANNELS, VEGETATIVE FILTER, ETC. SHALL BE MAINTAINED PERIODICALLY AND SUI ADEQUATE WATERING AND FERTILIZER. THE VEGETATIVE COVER SHALL BE REMOVED AND RESEEDED AS NECESSARY.
- SEDIMENTATION BASINS/TRAPS: SEDIMENTS SHALL BE REMOVED WHEN 40-50 PERCENT OF THE TOTAL ORIGINAL CAPACITY IS OCCUPIED BY SEDIMENT. IN NO CASE SHALL SEDIMENT BE ALLOWED TO BUILT MORE THAN 1 FOOT BELOW THE CREST ELEVATION. AT THIS STAGE, THE BASIN SHALL BE CLEANED OUT RESTORE ITS ORIGINAL VOLUME.
- SILT FILTER FENCE: ANY DAMAGED SILT FILTER FENCE SHALL BE RESTORED TO MEET THE STANDARDS REMOVED AND REPLACED AS NEEDED
- RIP-RAP OUTLET PROTECTION: INSPECTED SHALL OCCUR AFTER HIGH FLOWS FOR ANY SCOUR BENEATH
- RIP-RAP OR FOR STONE THAT HAVE BEEN DISLODGED. DISTURBED RIP RAP SHALL BE REPAIRED IMMEI
- F DUST CONTROL: WHEN TEMPORARY DUST CONTROL MEASURES ARE USED, REPETITIVE TREATMENT SHOULD APPLIED AS NEEDED TO ACCOMPLISH CONTROL.

		<u> </u>			
4.	INSPECTIONS				
1.	THE OWNER, OR OWNER'S REPRESENTATIVE SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT THE DISTURBED A OF THE SITE UNDER CONSTRUCTION WHICH HAVE NOT BEEN STABILIZED, ALL STRUCTURAL CONTROL MEASURES, A	AREAS AND			
	LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.				
2.	DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL E INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION	BE IAND ♀			
	SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERA CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERT WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATEI	AING AIN RS.	VILLAGE		
-	LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIME TRACKING.	NI	CHITECT		
3.	BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED T SECTION 1 ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION 2 ABOVE SHALL BE REVISED A APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FRO	IN IS DM THE	PER AK		
4.	A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING	THE	REVISED		
	INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4. SHALL BE N AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION.	MADE THE	2022	\square	
5.	REPORT SHALL BE SIGNED IN ACCORDANCE WITH APPLICABLE PART OF THE GENERAL PERMIT. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION	N WORK	11/23/		
	COVERED BY THIS PLAN, THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL COMPLETE AND FILE AN "INCI OF NONCOMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER OR RESIDENT TECH SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFI	IDENCE HNICIAN IC 오			
	INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUS NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM TH NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCOR	SES OF HE RDANCE			
	WITH PART VI. G OF THE GENERAL PERMIT. THE REPORT OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOW ADDRESS:	WING			
	ALL PACKAGES:ALL LETTERSILLINOIS ENVIRONMENTAL PROTECTION AGENCYILLINOIS ENVIRONMENTAL PROTECTION AGENCYDIVISION OF WATER POLLUTION CONTROLDIVISION OF WATER POLLUTION CONTROL				
	ATTN:COMPLIANCE ASSURANCE SECTIONATTN:COMPLIANCE ASSURANCE SECTION1024NORTH GRAND AVENUE, EASTPOST OFFICE BOX 19276SPRINGFIELD, IL 62794SPRINGFIELD, IL 62794–9276				39
5.	NON-STORM WATER DISCHARGES			S N N N	S 6043
	EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, POSSIBLE SOURCES OF NON-STORM WATER THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH THE PROPOSED ACTIVITY, ARE DESCRIBED BELOW:		ン		
	A FIRE FIGHTING ACTIVITIES B FIRE HYDRANT FLUSHINGS C WATER USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED		L	<u>S</u>	NT, IL aceng.
	D WATER USED TO CONTROL DUST E POTABLE WATER SOURCES INCLUDING UNCONTAMINATED WATERLINE FLUSHINGS F LANDSCAPE IRRIGATION DRAINAGES			Z Ш	LEMO www.
	G ROUTINE EXTERNAL BUILDING WASHDOWN WHICH DOES NOT USE DETERGENTS H PAVEMENT WASH WATERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCUP (UNLESS SPILLED MATERIALS HAVE BEEN PEMOVED) AND WHERE DETERGENTS HAVE NOT DETENDED	RRED		U Z	E 17 -
	I UNCONTAMINATED AIR CONDITIONING CONDENSATE J SPRINGS K IRRIGATION DITCHES				- SUIT 2467
	L UNCONTAMINATED GROUND WATER M FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH SOLVENTS	AS		SUI	REET 30-520-
6.	PROHIBITED NON-STORMWATER DISCHARGES			Ň	VIN ST 6
	A CONCRETE AND WASTEWATER FROM WASHOUT OF CONCRETE (UNLESS MANAGED BY AN APPROPRIATE CONTI B DRYWALL COMPOUND C WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO PAINT	ROL)	▲	Õ	80 M/
	D FORM RELEASE OILS E CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS F FUELS OILS OR OTHER POLITITANTS LISED IN VEHICLE OF FOLIDMENT OPERATION AND MAINTENIANCE				
	G SOAPS, SOLVENTS, OR DETERGENTS H TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE ANY OTHER POLLUTANT THAT COULD CAUSE OR TEND TO CAUSE WATER POLLUTION				
]			
	THIS CERTIFICATION STATEMENT IS A PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THE PROJECT DESCRIBED BFLOW. IN ACCORDANCE WITH NPDES PERMIT NO II RODODODOD ISSUED BY				
	THE ENVIRONMENTAL PROTECTION AGENCY ON PROJECT TITLE: LOMBARD ANIMAL HOSPITAL				
	PROJECT LOCATION: LEMONT DUPAGE ILLINOIS CITY/VILLAGE COUNTY STATE			TAI	
	DEVELOPER: RWE DESIGN BUILD			SPI	} 4
	I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS OF THE GENERAL NATIONAL POLILITANT DISCHARGE FLIMINATION SYSTEM (NPDES) PERMIT THAT ALITHODIZES THE STOPM WATER	NO		ю́н	601
	DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.		AN	<u>х</u> К	. <u>S</u>
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					l S
	Signature: Date:	NATER			D, ILLINO
	Signature: Date:	RM WATER	PREVENTIO		ARD, ILLINO
	Signature: Date: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT	STORM WATER	PREVENTIO		MBARD, ILLINO
	Signature: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature	STORM WATER	PREVENTIO	BARD VETERINA	LOMBARD, ILLINO
	Signature: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature	STORM WATER	PREVENTIO	OMBARD VETERINA 244 F ST CHARI	LOMBARD, ILLINO
	Signature: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature	STORM WATER	PREVENTIO	LOMBARD VETERINA 244 F ST CHARI	LOMBARD, ILLINO
	Signature: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature	STORM WATER	PREVENTIO	LOMBARD VETERINA	
	Signature: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature	STORM WATER	PREVENTIO	TF 106 244 F ST CHAPI	7 COMBARD, ILLINO
	Signature: Date: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature		PREVENTIO	SUITE 106 244 F ST CHAPI	0527 COMBARD, ILLINO
	Signature: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature				IS 60527 LOMBARD, ILLINO
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	Signature: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature	DEC.		RONTAGE ROAD SUITE 106 244 E ST CHARI	RIDGE, ILLINOIS 60527 LOMBARD, ILLINO
	Signature: Date: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature			S FRONTAGE ROAD SUITE 106 244 E ST CHARI	IRR RIDGE, ILLINOIS 60527 LOMBARD, ILLINO
	Signature:			361 S FRONTAGE ROAD SUITE 106 244 F ST CHARI	BURR RIDGE, ILLINOIS 60527 LOMBARD, ILLINO
	Signature: CONTRACTOR/SUBCONTRACTOR CERTIFICATION STATEMENT Name: Signature			DESIGN BUILD LOMBARD VETERINA 6W361 S FRONTAGE ROAD SUITE 106 244 F ST CHARI	BURR RIDGE, ILLINOIS 60527 LOMBARD, ILLINO

SEEDING CHART

45 LBS/ACRE + STRAW MULCH 2 TONS/ACRE

WHEAT OR CEREAL RYE 150 LBS/ACRE.

SPRING OATS 100 LBS/ACRE

STRAW MULCH 2 TONS/ACRE.

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GENERAL NOTES SEWER SERVICES LATERALS SHALL BE MINIMUM OF SIX (6) INCHE THE SEWER MAIN AT THE TIME OF CONSTRUCTION BY USING A WY THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS DEPARTMENT OF TRANSPORTATION, LATEST REVISION, AND THE STANDARD WITH ASTM D-3139 FLEXIBLE ELASTOMERIC SEALS. WHERE A SANIT WHERE SPECIFIC APPROVAL HAS BEEN GRANTED BY THE VILLAGE SPECIFICATION FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST REVISION, SHALL GOVERN CONSTRUCTION FOR THE PROPOSED IMPROVEMENTS UNLESS SUPERCEDED BY SPECIAL PROVISIONS IN THE VILLAGE OF LOMBARD SUBDIVISION AND ENGINEERING SPECIFICATIONS MANUAL. LATERAL, THE CONSTRUCTION SHALL BE MADE BY ONE OF THE MET THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF LOMBARD PRIVATE ENGINEERING SERVICES DIVISION OF THE DEPARTMENT OF COMMUNITY DEVELOPMENT, (630) A. INSTALLATION OF A MANHOLE. 620-5750, AT LEAST TWO (2) WORKING DAYS BEFORE THE INITIAL START OF OPERATIONS, OPENING ANY STREET PAVEMENT OR ANY TEMPORARY STOP OR RESUMPTION OF OPERATIONS B. BE MACHINE TAPPED USING APPROVED SDR 26 SADDLE WITH ALL NEW UNDERGROUND SERVICES SHALL BE PLACED AT LEAST FIVE (5) FEET FROM SANITARY AND WATER SERVICES. C. REMOVE AN ENTIRE SECTION OF PIPE AND REPLACE WITH A BELL. AFTER THE WYE OR TEE BRANCH IS INSERTED, CONCRE WHEREVER THE WORDS "ENGINEER" OR "INSPECTOR" APPEARS, IT SHALL BE INTERPRETED TO MEAN A REPRESENTATIVE OF THE VILLAGE OF LOMBARD PRIVATE INCHES AND TO A DIMENSION OF EIGHT (8) INCHES IN ALL D ENGINEERING SERVICES DIVISION OF THE DEPARTMENT OF COMMUNITY DEVELOPMENT. D. USING PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIR A COPY OF THE VILLAGE APPROVED STAMPED PLANS AND SPECIFICATIONS AND OTHER AGENCIES' PERMITS, I.E. COUNTY HIGHWAY, ILLINOIS ENVIRONMENTAL FITTING AND HOLD IT FIRMLY IN PLACE. FOLLOW MANUFACTURE PROTECTION AGENCY, ETC., MUST BE KEPT ON THE JOB SITE DURING CONSTRUCTION OF THE PROJECT WORK. THE VILLAGE OF LOMBARD WILL REQUIRE AN AIR TEST TO BE PERI CHANGES IN THE ENGINEERING PLANS MUST BE APPROVED BY THE VILLAGE ENGINEER, A WRITTEN REQUEST, ACCOMPANIED BY REVISED ENGINEERING PLANS, IS TO BE TESTED SHALL HAVE BEEN TRENCH-BACKFILLED AND CLEAR TO BE SUBMITTED AND APPROVED BEFORE CHANGES ARE STARTED. DIAMETER OF THE PIPE TO BE TESTED) PLACED IN BOTH ENDS OF PRESSURIZED TO 4.0 PSI ABOVE THE AVERAGE BACK PRESSURE O FOR AT LEAST TWO (2) MINUTES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES (AMERITECH, COMMONWEALTH EDISON ELECTRIC COMPANY, ETC.) PRIOR TO CONSTRUCTION AND ALL UTILITIES DAMAGED AND/ OR DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER, LOCATIONS AS SHOWN ARE APPROXIMATE AND BASED UPON THE BEST AVAILABLE INFORMATION, CALL J.U.L.I.E. FOR MAJOR UTILITY LOCATIONS. AFTER THE STABILIZATION PERIOD, THE LINE SHALL BE PRESSURIZE GROUND WATER IS PRESENT, THE AIR PRESSURE WITHIN SHALL BE THE CONTRACTOR IS TO VERIFY ALL ELEVATIONS PRIOR TO THE START OF WORK AND, IF THERE ARE ANY DISCREPANCIES, IS TO NOTIFY THE DESIGN ENGINEER (1) POUND OF AIR PRESSURE MEASURED IN MINUTES. THE LINE E AT ONCE. NO WORK SHALL BE DONE UNTIL THE DISCREPANCIES ARE RESOLVED. NOT LESS THAN THE TIME PER INCH OF PIPE DIAMETER PER LENG PERFORMED AFTER THE PIPE HAS BEEN IN THE GROUND FOR A MI RECORD DRAWINGS SHALL BE PROVIDED FOR THE GRANTING OF OCCUPANCY PERMITS. RELIEF SHALL BE PROVIDED ONLY FOR ITEMS INCOMPLETE DUE TO WINTER CONDITIONS. VACUUM TESTING SHALL BE CARRIED OUT IMMEDIATELY AFTER ASSE INCHES IN DIAMETER. ALL LIFT HOLES SHALL BE PLUGGED WITH A 0. EXISTING UTILITIES TO BE ABANDONED IN PLACE SHALL BE REMOVED TO A MINIMUM DISTANCE OF 15 FEET ON EACH SIDE OF ANY EXISTING UTILITIES TO CHIMNEY SEALS SHALL BE IN PLACE BEFORE TESTING. NO GROUT BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM REMAIN IN SERVICE AND/OR ANY PROPOSED UTILITIES. VILLAGE UTILITIES TO BE ABANDONED MUST BE CAPPED AT MAIN. INCHES OF MERCURY SHALL BE DRAWN AND THE TIME MEASURED DROP BELOW NINE (9) INCHES OF MERCURY FOR THE FOLLOWING ROOT PRUNING SHALL BE COMPLETED ON ALL PUBLICLY OWNED TREES PRIOR TO EXCAVATION WITHIN A DISTANCE FROM THE TREE OF ONE FOOT PER INCH OF DIAMETER AT BREAST HEIGHT. EXCAVATION AND ROOT CUTTING IS NOT PERMITTED WITHIN THREE FEET OF THE TRUNK. ALL ROOTS OVER ONE INCH DIAMETER ON THE TREE SIDE OF THE TRENCH THAT BECOME EXPOSED BY EXCAVATION SHALL BE CUT BY HAND. FORTY-EIGHT (48) INCHES DIAMETER - SIXTY (60) SECON (72) INCHES DIAMETER – NINETY (90) SECONDS 2. OSHA SAFETY STANDARDS SHALL BE FOLLOWED. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT NECES MASS GRADING MATERIALS. THE TESTING SHALL BE COMPLETED BREFOE BACKFILLIN ALL UNSUITABLE MATERIAL MUST BE REMOVED FROM THE PROPOSED BUILDING AREA OR AS INDICATED ON THE SOILS REPORT FOR THE SUBJECT AND FIXED EXTERNALLY, AND TO GIVE THE HORIZONTAL MANHOLE DEVELOPMENT. ALL PUBLIC AND/OR PRIVATE IMPROVEMENTS THAT ARE TO BE ACC PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE MASS GRADING OPERATIONS OF A SUBDIVISION OR PARCEL OF LAND, THE DEVELOPER OR BUILDER, ENTIRE SANITARY SEWER SYSTEM INSPECTED BY THE VILLAGE OF I MUST NOTIFY THE VILLAGE ENGINEER TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION. IN ADDITION, PRIOR TO COMMENCEMENT OF ANY INSPECTION WILL INCLUDE TELEVISION INSPECTION OF ALL NEW SEV CONSTRUCTION, ALL REQUIRED BONDS MUST BE POSTED AND PERMIT FEES PAID, ALL MASS GRADING OPERATIONS OF A SUBDIVISION OR INDIVIDUAL BUILDING TELEVISION INSPECTION SHALL BE PROVIDED PRIOR TO THE FINAL PARCEL, AS WELL AS ANY ROADWAY OR PARKING LOT IMPROVEMENT, MUST BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR ROAD AND REFERENCE PURPOSES. ALL TELEVISION INSPECTION OF THE COMPI BRIDGE CONSTRUCTION, IN ILLINOIS, CURRENT EDITION, AS WELL AS THE AMERICAN SOCIETY OF STATE HIGHWAY OFFICIALS, CURRENT EDITION. ALL DEFECTS AND CORRECTIVE WORK REQUIRED AS THE RESULT O ALL GRADING OPERATIONS MUST BE CONSTRUCTED ACCORDING TO THE ELEVATIONS AND GRADES, AS SHOWN ON THE PLANS OR MODIFIED BY THE VILLAGE COMPLETION THEREOF, THE SEWER SHALL BE RE-TESTED AND SUC ENGINEER, ALL EXCAVATED MATERIAL SHALL BE PLACED AND STOCKPILED ON THE SUBJECT PROPERTY. AS PREVIOUSLY APPROVED. THE SUBDIVIDER OR LOMBARD BUILDER MUST ADHERE TO THE APPROVED ENGINEERING PLANS, DURING THE COURSE OF CONSTRUCTION OF THE DESIGNATED IMPROVEMENTS. POSITIVE DRAINAGE MUST BE PROVIDED AT ALL TIMES IN AN ATTEMPT NOT TO AFFECT THE SUBJECT DEVELOPMENT OR TO INFRINGE UPON ADJACENT PROPERTIES. SPECIAL CONSIDERATION MUST BE GIVEN TO THE INSTALLATION OF INSURE PROTECTION OF THE ADJACENT AREA. SEWER ALIGNMENT. STORM SEWER THE INSPECTION AND TESTING REQUIREMENTS OF THE VILLAGE OF NO STORM SEWER CONSTRUCTION SHALL COMMENCE WITHIN THE LIMITS OF THE VILLAGE OF LOMBARD UNTIL THE VILLAGE HAS APPROVED THE DESIGN OF THE 14. THE CONTRACTOR SHALL FURNISH AND PLACE A TEMPORARY STAKE SYSTEM AND ISSUED THE NECESSARY PERMITS FOR THESE IMPROVEMENTS. SIDEWALKS AND/OR CURB AND GUTTER ARE INSTALLED. THE CONT WHERE WALKS OR CURBS ARE NOT AVAILABLE, AS PERMANENT REC ALL STORM WATER DRAINS OR FIELD TILES ENCOUNTERED DURING CONSTRUCTION MUST BE DRAINED WITH A POSITIVE OUTFALL, BE CONNECTED TO THE LOCATION OF ALL SEWER SERVICES BY MEASUREMENT TO THE NEAF PROPOSED STORM SEWER SYSTEM OR BE REPAIRED. THE CONNECTION POINT OF ALL FIELD TILES TO THE PROPOSED STORM SEWER SYSTEM MUST BE SHOWN LOMBARD AT THE COMPLETION OF THE WORKDAY. ON THE RECORD DRAWINGS FOR THE STORM SEWER SYSTEM. ANY DEVIATION FROM APPROVED PLANS OR SPECIFICATIONS AFFECT IN WRITING BY THE VILLAGE OF LOMBARD BEFORE SUCH CHANGES STORM WATER SHALL NOT BE DIRECTED INTO THE SANITARY SEWER SYSTEM AND NO CONNECTIONS BETWEEN THE STORM AND SANITARY SEWER SYSTEM WILL BE PERMITTED AT ANY TIME BEFORE, DURING, OR AFTER CONSTRUCTION. AVEMENT MINIMUM COVER FOR STORM SEWER SHALL BE TWO (2) FEET. WHERE MINIMUM COVER IS UNATTAINABLE STORM SEWER SHALL BE CONSTRUCTED OF CLASS IV REINFORCED CONCRETE PIPE. THE PAVEMENT DESIGN REQUIREMENTS OF ALL PUBLIC AND PRIVAT STANDARDS FOR STREET DESIGN IN THE VILLAGE OF LOMBARD. ALL MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION PREPARED BY THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION, CURRENT EDITION, EXCEPT WHERE MODIFIED BY SPECIFIC VILLAGE OF LOMBARD STANDARDS. PRIOR TO THE INSTALLATION OF THE FINAL WEARING SURFACE, THE PREPARED REGARDING BASE AND BINDER COURSE DEFICIENCIES A ALL STORM SEWERS SHALL BE POLYVINYL CHLORIDE (PVC) PIPE OR REINFORCED CONCRETE PIPE, CLASS IV, O-RING CONSTRUCTION. OTHER TYPES OF PIPE VILLAGE AND TO THE SATISFACTION OF THE VILLAGE ENGINEER. TH AS PAVEMENT CORINGS, DYNAFLECT PAVEMENT ELEVATIONS, ETC., MAY BE USED ONLY UPON APPROVAL OF THE VILLAGE ENGINEER. PRIOR TO THE INSTALLATION OF THE FINAL WEARING SURFACE AND APPROVAL ALL MANHOLES SHALL BE REINFORCED CONCRETE, TYPE A. WITH OFFSET CONES. FRAMES AND GRATES SHALL BE AS INDICATED ON PLANS. ALL SOLID COVER: TRUCK WELLS IN COMMERCIAL DEVELOPMENTS, SHALL BE CONSTRU SHALL BE STAMPED "STORM" REINFORCING MATERIAL. ALL MANHOLES AND DRAINAGE STRUCTURES SHALL CONFORM TO ASTM C-478, ALL STRUCTURES WILL BE PRECAST AND SHALL HAVE A SIX (6) INCH THICK PRECAST CONCRETE BASE ON ONE PIECE, BEDDED IN AT LEAST SIX (6) INCHES OF GRAVEL OR CRUSHED STONE. THE SUBGRADE OF ALL ROADS SHALL BE GRADED AND ROLLED IN BRIDGE CONSTRUCTION, CURRENT EDITION, BY THE DEPARTMENT O ALL INLETS SHALL BE REINFORCED CONCRETE. TYPE A. INLETS SHALL HAVE AN INTERNAL DIAMETER OF TWO (2) FEET AND A MINIMUM DEPTH OF THREE (3 REPLACEMENT OF SOFT AND UNSTABLE MATERIAL AS CONTAINED IN FEET. SIDEWALLS SHALL BE PRECAST CONCRETE HAVING A THICKNESS OF FOUR (4) INCHES. BEDDED IN A MINIMUM OF SIX (6) INCHES OF GRAVEL OR SECTION 205 OF SAID SPECIFICATIONS. CRUSHED STONE. SUBGRADE MATERIAL HAVING AN IBR LESS THAN 2.5 SHALL BE REM D. PLASTIC POLYMER STEPS MEETING THE REQUIREMENTS OF THE STANDARD DETAILS SHALL BE INSTALLED IN ALL MANHOLES OR CATCH BASINS DEEPER THAN TO COMPENSATE FOR THE EXISTING SOIL CONDITIONS. FOUR FEET. AT LEAST ONE STANDARD DENSITY TEST (PERFORMED IN ACCORDAN THE MANHOLE FRAME AND LID SHALL BE ADJUSTED TO FINAL GRADE BY TAPERED RUBBERIZED ADJUSTING RINGS OR PRECAST CONCRETE ADJUSTING RINGS. DISTANCE BETWEEN TESTS OF 300 FEET. ONE STANDARD PROCTOR ONE (1) PRECAST CONCRETE ADJUSTING RING NOT LESS THAN THREE (3) INCHES THICK MAY BE USED. THE ADJUSTING RINGS SHALL HAVE A MINIMUM HEIGHT REQUIRED BY THE VILLAGE ENGINEER. THE PROCTOR AND DENSITY OF TWO (2) INCHES AND A MAXIMUM COMBINED HEIGHT OF TWELVE (12) INCHES. A MAXIMUM OF THREE (3) ADJUSTING RINGS (ALL RUBBER AND OR RUBBER VILLAGE UPON APPROVAL OF THESE TESTS WILL MAKE AN INSPECT OF CURB AND GUTTER OR BASE MATERIAL. THE COST OF ALL TES AND CONCRETE MIX) WILL BE ALLOWED. ALL ADJUSTING RINGS AND FRAME SHALL BE SEALED WITH BITUMINOUS NON-PREFORMED, NON- HARDENING MASTIC TO ASSURE WATER TIGHTNESS. BRICKS, CONCRETE BLOCKS OR METAL SHIMS MAY NOT BE USED FOR ADJUSTMENTS AND MORTAR SHALL NOT BE USED FOR ACHIEVING WATER TIGHTNESS. THE BITUMINOUS CONCRETE BINDER AND SURFACE COURSE SHALL STANDARD SPECIFICATIONS. A PRIME COAT SHALL BE APPLIED TO 2. CONTRACTORS ARE RESPONSIBLE FOR ALL UTILITY LOCATIONS DURING CONSTRUCTION. AFTER A BASE CURING PERIOD OF NOT MORE THAN FIVE (5) DAYS CONSTRUCTED UPON THE BASE COURSE. THE COMPACTED THICKNE JOINTS FOR STORM SEWERS SHALL BE O-RING PREFORMED, FLEXIBLE, GASKET TYPE (ASTM C443). ALL EXTERNAL JOINTS SHALL BE WRAPPED WITH EZ THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE E SURFACED. SHOULD ANY CONDITION OCCUR WHICH. IN THE JUDGE . BASED ON THE DEPTH TO WHICH A PARTICULAR TYPE OR CLASS OF PIPE MAY BE USED, THE PIPE SHALL BE SELECTED TO PROVIDE PROTECTION AGAINST STRUCTURAL FAILURE WHEN SUBJECTED TO ALL FUTURE DEAD LOADS PLUS IMPACT LOADS AND SHALL BE ASSUMED TO BE IN NO CASE LESS THAN THAT TRAFFIC. THE CONTRACTOR SHALL DO WHATEVER IS REQUIRED TO SUCH HAZARDOUS CONDITIONS WITHIN 12 HOURS AFTER NOTIFICATI RESULTING FROM A SURCHARGE AT THE GROUND SURFACE OF 250 POUNDS PER SQUARE FOOT. CHARGES TO THE CONTRACTOR. 15. IT SHALL BE UNLAWFUL FOR ANY PERSON, FIRM, OR CORPORATION TO DISCHARGE OR PERMIT OR CAUSE TO BE DISCHARGE SANITARY OR INDUSTRIAL WASTE . ALL BITUMINOUS BINDER COURSE MATERIALS MUST BE IN PLACE F WATER INTO ANY STORM DRAIN OR SEWER, WHETHER SURFACE OR UNDERGROUND, WHICH CARRIES STORM AND SURFACE WATERS AND DRAINAGE. (10) MONTHS, INCLUDING WINTER AND SPRING BEFORE THE INST. AS A MINIMUM REQUIREMENT. THE SPECIFICATIONS FOR THE CONSTRUCTION OF STORM WATER FACILITIES SHALL NOT BE LESS STRINGENT THAN THE STANDARD EDITION, ADOPTED BY A JOINT COMMITTEE OF THE ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, CONSULTING ENGINEERS COUNCIL OF ILLINOIS, ILLINOIS A PRIME COAT SHALL THEN BE APPLIED AT A RATE OF 0.15 GALLO LEAGUE AND THE ASSOCIATED GENERAL CONTRACTORS OF ILLINOIS, COPY OF WHICH IS OBTAINABLE FROM THE ORGANIZATIONS MENTIONED. CONSTRUCTION SHALL BE CONSTRUCTED. THE CONTRACTOR SHALL BE REQUIRED REQUIREMENTS FOR DRAINAGE SWALES, RETENTION-DETENTION FACILITIES AND OPEN CHANNELS SHALL BE IN ACCORDANCE WITH SECTIONS 200, 500 AND 600 PLACING SURFACE COURSE. SURFACE COURSE SHALL BE OF THE OF THE STATE STANDARD SPECIFICATIONS, CURRENT EDITION. . CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN CONFOR ALL STORM SEWERS SHALL BE PROPERLY CLEANED, FLUSHED AND RODDED, IF NECESSARY, PRIOR TO ACCEPTANCE BY THE VILLAGE. IF SANITARY WASTES ARE CONFORMANCE WITH THE DETAILS SHOWN ON THE PLANS. TWO (2 FOUND IN THE STORM DRAINAGE SYSTEM, THE SECTION OF STORM SEWER SUSPECTED SHALL BE TV TESTED IN ORDER TO LOCATE THE POINT(S) OF CROSS SHALL RUN THE ENTIRE LENGTH OF THE CURB AND GUTTER. CONC CONNECTION. CONCRETE USED THEREIN SHALL CONFORM TO STANDARD SPECIFIC 8. PRIOR TO RELEASE OF SECURITY DEPOSITS FOR THE STORM SEWER AND DRAINAGE SYSTEMS, AS-BUILT DRAWINGS OF THE SYSTEM MUST BE DELIVERED TO 3/4 INCH PRE-MOLDED BITUMINOUS EXPANSION JOINTS HAVING TW THE VILLAGE OF LOMBARD PRIVATE ENGINEERING SERVICES DIVISION. POINTS OF CURVATURE WHERE THE RADIUS IS LESS THAN 100 FE SANITARY SEWER HAVE EXPANSION CAPS. CONTRACTION JOINTS SHALL BE FORMED SEWER PIPE SHALL BE EITHER REINFORCED CONCRETE SEWER PIPE (ASTM C-76 WITH ASTM C-443 FLEXIBLE GASKET MATERIAL "O" RINGS), DUCTILE IRON . DEVELOPMENT PLANS SHALL INCLUDE SIDEWALK AND/OR CROSS W PIPE (ANSI A-21.51 CLASS 52 WITH AWWA C-104 MECHANICAL OR RUBBER RING JOINTS) OR POLYVINYL CHLORIDE PIPE (ASTM D-3034 SDR 26 WITH ASTM THICKNESS OF FIVE (5) INCHES. ALL SIDEWALKS SHALL HAVE A MI D-3212 FLEXIBLE ELASTOMERIC SEALS) UNLESS WATERMAIN QUALITY PIPE IS SPECIFIED. THE PIPE SHALL BE ALLOWED IN EIGHT (8) INCH, TEN (10) INCH AND THE SIDEWALKS WHEN CONSTRUCTED SHALL CONTAIN NOT LESS TH TWELVE (12) INCH DIAMETERS FOR PUBLIC SEWERS. SHALL BE NOT LESS THAN TWO (2) INCHES, NOT MORE THAN FOUL ACCORDANCE WITH THE APPROPRIATE SECTIONS OF THE SITE STAN WATERMAIN QUALITY SEWER PIPE SHALL BE EITHER DUCTILE IRON PIPE (ANSI A-21.51 CLASS 52 WITH AWWA C-104 MECHANICAL OR RUBBER RING JOINTS) . ALL EXPOSED CONCRETE WORK INCLUDING SIDEWALKS AND CURBS OR WATERMAIN QUALITY POLYVINYL CHLORIDE PIPE (ASTM D-2241 PVC SDR-26 CLASS 160 PSI WITH ASTM D- 3139 JOINTS AND GASKETS). THE PIPE SHALL BE ALLOWED IN EIGHT (8) INCH, TEN (10) INCH AND TWELVE (12) INCH DIAMETER FOR PUBLIC SEWERS. . PRIOR TO CONSTRUCTING THE BITUMINOUS SURFACE COURSE, THE BINDER REPAIR SHALL INCLUDE REMOVAL OF THE EXISTING BINDER INFILTRATION OR EXFILTRATION SHALL NOT EXCEED FIFTY (50) GALLONS PER INCH DIAMETER PER MILE OF LENGTH PER DAY. COMPACTING A MINIMUM OF TWO (2) INCHES OF CLASS I BINDER. PREPARED TO THE SATISFACTION OF THE ENGINEER. A DROP PIPE SHALL BE PROVIDED FOR A SEWER ENTERING A MANHOLE AT AN ELEVATION OF TWENTY-FOUR (24) INCHES OR MORE ABOVE THE MANHOLE INVERT. WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INCOMING SEWER AND THE MANHOLE INVERT IS LESS THAN TWENTY-FOUR (24) INCHES. THE THE CONSTRUCTION OF ALL PAVEMENT, CURBS AND GUTTERS, AND INVERT SHALL BE FILLETED TO PREVENT SOLID DEPOSITION. ALL MANHOLES SHALL BE CONSTRUCTED WITH AN OUTSIDE DROP CONNECTION. INSIDE DROP AND THE FURNISHING OF ALL MATERIALS, AND THE CONSTRUCTION CONNECTIONS ARE ONLY PERMITTED BY THE APPROVAL OF THE VILLAGE ENGINEER OR HIS DESIGNEE. CONSTRUCTED ACCORDING TO THE REQUIREMENTS AS OUTLINED IN BE IN CONFORMANCE WITH THE APPROPRIATE SECTION OF THE STA MANHOLES SHALL BE MADE OF PRECAST CONCRETE. NO BRICK OR CONCRETE BLOCK MANHOLES SHALL BE PERMITTED WITHIN THE VILLAGE. ALL MANHOLES SHALL BE WATERPROOFED ON THE EXTERIOR SURFACE IN A MANNER APPROVED BY THE VILLAGE OF LOMBARD. 3. ALL EXISTING MANHOLES AND BASINS SHALL BE ADJUSTED TO MEE INLET AND OUTLET PIPES SHALL BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATER TIGHT CONNECTION OR ANOTHER WATERTIGHT CONNECTION ALL PHASES OF PAVING IMPROVEMENTS WILL BE SUBJECT TO PERI ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL TO TAKE PLACE. THE STANDARD WATERTIGHT FRAME AND LID ACCEPTED BY THE VILLAGE WITHOUT FINAL APPROVAL BY THE ENGI REQUIRED BY THE VILLAGE SHALL BE NEENAH FOUNDRY R-1772-C W/SOLID LID. . ALL PAVING IMPROVEMENTS INSTALLED WILL BE SUBJECT TO TESTIN THE MANHOLE FRAME AND LID SHALL BE ADJUSTED TO FINAL GRADE BY) TAPERED RUBBERIZED ADJUSTING RINGS OR PRECAST CONCRETE ADJUSTING RINGS. COMPANY APPROVED BY THE VILLAGE ENGINEER WILL PERFORM TH ONE (1) PRECAST CONCRETE ADJUSTING RING NOT LESS THAN TWO (2) INCHES THICK MAY BE USED. THE ADJUSTING RINGS SHALL HAVE A MINIMUM HEIGHT DEFECTIVE IN WORKMANSHIP OR MATERIALS, THEN THEY SHALL BE OF THREE (3) INCHES AND A MAXIMUM COMBINED HEIGHT OF TWELVE (12) INCHES. A MAXIMUM OF THREE (3) ADJUSTING RINGS (ALL RUBBER AND OR

> 21. THE SUBGRADE MATERIALS MUST BE PROOF-ROLLED AND TESTED P THE VILLAGE ENGINEER OR HIS DESIGNEE, FOR REVIEW AND APPRON THE BASE COURSE MATERIALS IS REQUIRED. ALL TESTING REPORTS

ONE (1) PRECAST CONCRETE ADJUSTING RING NOT LESS THAN TWO (2) INCHES THICK MAY BE USED. THE ADJUSTING RINGS SHALL HAVE A MINIMUM HEIGHT OF THREE (3) INCHES AND A MAXIMUM COMBINED HEIGHT OF TWELVE (12) INCHES. A MAXIMUM OF THREE (3) ADJUSTING RINGS (ALL RUBBER AND OR RUBBER AND CONCRETE MIX) WILL BE ALLOWED. ALL ADJUSTING RINGS AND FRAME SHALL BE SEALED WITH BITUMINOUS NON-PREFORMED, NON- HARDENING MASTIC TO ASSURE WATER TIGHTNESS. CONCRETE BLOCKS, BRICKS OR METAL SHIMS SHALL NOT BE USED FOR ADJUSTMENTS AND MORTAR MAY NOT BE USED FOR ADJUSTMENTS AND MORTAR MAY NOT BE USED FOR ACHIEVING WATER TIGHTNESS. ALL EXTERIOR JOINTS SHALL BE WRPAPED WITH EZ WRAP.

S IN DIAMETER AT A MINIMUM SLOPE OF ONE (1) PERCENT AND ARE TO BE CONNECTED TO (E. PROPOSED SERVICES ARE TO BE POLYVINYL CHLORIDE PIPE (PVC SDR-26) ASTM D-2241 TARY SEWER SERVICE LINE IS TO CONNECT TO AN EXISTING SEWER MAIN OR LATERAL OR		DESIGNEE. TESTING WILL HAVE TO PASS A PROOF ROLL OF ONE QUARTER (¼) INCH DEFLECTION.
OF LOMBARD FOR THE CONSTRUCTION OF A SERVICE LINE AFTER THE COMPLETION OF THE ETHODS DETAILED BELOW:	22.	ALL STREETS, CURBS, GUTTERS AND SIDEWALKS WHICH ARE CONSTRUCTED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE UNDER WARRANTY FOR ALL DEI FAILURES FOR A PERIOD OF TWO (2) YEARS AFTER THE DATE OF ACCEPTANCE.
STAINLESS STEEL SADDLE HUR	23.	IN PAVEMENT AREAS WHERE UNSTABLE SOILS ARE PRESENT, TERRATEX NO. 8 GEOFABRIC OR APPROVED EQUAL SHALL BE USED AT THE DISCRETION FIELD ENGINEER. PLACE THE GEOFABRIC/GEOGRID SYSTEM IMMEDIATELY ABOVE THE STABLE PREPARED SUBGRADE AT BASE COURSE/SUBGRADE CONT
TEE BRANCH SECTION. PIPE SECTION SHALL BE REMOVED BY BREAKING ONLY TOP OF ONE TE SHALL BE PLACED OVER THE BROKEN AREA TO A MINIMUM THICKNESS OF FOUR (4)	WAT	ERMAIN
Directions. Red length of Pipe For Insertion of Proper Fittings. Use "Band Seal" couplings or	1. २	ALL VALVES SHALL BE MUELLER 2360 OR AMERICAN FLOW CONTROL 2500 AND MEET THE FOLLOWING SPECIFICATIONS: THE VALVES SHALL BE EPOX RESILIENT WEDGE TYPE WITH ALL STAINLESS STEEL NUTS AND BOLTS ON VALVE BODY AND PACKAGING GLAND. ALL VALVES ARE TO BE WRAPPED IN WRAP UP TO AND INCLUDING THE PACKING GLAND.
ER'S RECOMMENDATIONS FOR THE INSTALLATION. FORMED WITH THE FOLLOWING AIR TESTING METHOD PROCEDURES: THE SECTION OF SEWER RED. PNEUMATIC PLUGS (HAVING A SEALING LENGTH EQUAL TO OR GREATER THAN THE F THE PIPE TO BE INFLATED TO 30 PSI. THE SEALED SEWER PIPE SHALL THEN BE	2.	ALL WATERMAINS SHALL BE DUCTILE IRON PIPE (CLASS 52), MEETING THE REQUIREMENTS OF A.S.A. SPECIFICATION A21.51/AWWA SPECIFICATION C15 ASA SPECIFICATION A21.4/AWWA SPECIFICATION C104 CEMENT LINING, AND WITH PUSH ON TYPE JOINTS CONFORMING TO ASA SPECIFICATION A21.11, SPECIFICATION C111. THE THICKNESS CLASS OF THE DUCTILE IRON PIPE SHALL BE DETERMINED IN ACCORDANCE WITH TABLE 51.2 OF THE ASA SPE A21.51. THE ENGINEER SHALL FURNISH THE VILLAGE WITH SUFFICIENT DATA TO SUBSTANTIATE THE THICKNESS CLASS USED.
OF GROUND WATER OVER THE SEWER PIPE AND THE AIR PRESSURE ALLOWED TO STABILIZE	3.	THE MINIMUM DEPTH OF COVER OVER ALL WATERMAINS SHALL BE FIVE (5) FEET SIX (6) INCHES MEASURED FROM THE PROPOSED GROUND SURFACE ESTABLISHED GRADE TO THE TOP OF THE PIPE.
ED TO 3.5 PSI AND THE TIME IN MINUTES MEASURED FOR PRESSURE TO DROP 1.0 PSI. IF INCREASED TO 3.5 PSI ABOVE THE LEVEL OF THE GROUND WATER AND THE DROP OF ONE BEING TESTED SHALL BE DEEMED ACCEPTABLE WHEN THE AIR LEAKAGE TEST RESULTS ARE GTH OF SEWER PIPE. A MANDREL TEST IS ALSO REQUIRED. THE MANDREL TEST SHALL BE	4. 5.	FITTINGS SHALL BE DUCTILE IRON PRODUCED WITH AN 80-60-02 METAL IN ACCORDANCE WITH ASTM SPECIFICATION A330, LATEST EDITION. JOINTS SHALL BE COMPRESSION TYPE SIMILAR AND EQUAL TO U.S. "TYTON" OR CLOW "BELL TITE".
MINIMUM OF THIRTY (30) DAYS. EMBLY AND PRIOR TO BACKFILLING OF MANHOLES THAT ARE UP TO SEVENTY-TWO (72)	6.	GATE VALVES ARE REQUIRED ON ALL MAINS TWELVE (12) INCHES IN DIAMETER OR SMALLER AND BUTTERFLY VALVES ARE REQUIRED ON ALL MAINS (14) INCHES IN DIAMETER OR GREATER.
SHALL BE PLACED IN THE HORIZONTAL JOINTS. ALL PIPES ENTERING THE MANHOLE SHALL M BEING DRAWN INTO THE MANHOLE WITH THE VACUUM TESTING. A VACUUM OF TEN (10) FOR THE VACUUM TO DROP TO NINE (9) INCHES OF MERCURY. THE VACUUM SHALL NOT TIME PERIODS FOR EACH MANHOLE.	7.	ALL BUTTERFLY VALVES SHALL HAVE THE NAME, MONOGRAM, OR INITIALS OF THE MANUFACTURER CAST THEREON. ALL VALVES SHALL BE FURNISHED MECHANICAL JOINTS CONFORMING TO A.S.A SPECIFICATION A21.11/AWWA SPECIFICATION C111 OR SPECIFICATION C110.
ONDS SIXTY (60) INCHES DIAMETER - SEVENTY-FIVE (75) SECONDS SEVENTY-TWO	0. 0	OR HIS AUTHORIZED REPRESENTATIVE.
SSARY FOR TESTING. IF TESTING FAILS, CONTRACTOR SHALL SEAL ALL LEAKS WITH APPROVED NG SO THAT ANY LEAKS CAN BE FOUND JOINTS AN OPPORTUNITY TO TIGHTEN.	500	COMPLIANCE WITH AWWA C- . ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL OPERATE AT WORKING PRESSURE OF ONE HUNDRED FIFTY (150) POUNDS PER SQUARE INCH AND A TEST PRESSURE OF THREE HUNDRED (300) POUNDS PER S INCH.
CEPTED BY THE VILLAGE OF LOMBARD FOR MAINTENANCE AND OWNERSHIP SHALL HAVE THE LOMBARD DURING THE COURSE OF THE CONSTRUCTION AND AT COMPLETION. SUCH WER INSTALLATIONS AND SHALL BE REQUIRED AT TIME OF INSPECTION. VIDEOTAPES OF ALL INSPECTION. THE VIDEOTAPES AND REPORTS MUST INCLUDE FOOTAGE COUNTERS FOR	10. 11.	SPECIFIC MANUFACTURERS OF VALVES REQUIRE THE APPROVAL OF THE VILLAGE ENGINEER AND DIRECTOR OF PUBLIC WORKS. A VALVE VAULT, TYPE A, SHALL BE INSTALLED IN CONJUNCTION WITH ALL WATERMAIN VALVES. THE VALVE VAULT SHALL HAVE AN INSIDE DIAMETER OF LARGER
LETED SANTIARY SEWER IS THE RESPONSIBILITY OF THE CONTRACTOR. OF TV INSPECTION SHALL BE TAKEN CARE OF BY THE CONTRACTOR WITHOUT DELAY. UPON CH FURTHER INSPECTION OF THE WORK MADE AS DEEMED NECESSARY BY THE VILLAGE OF	12.	ALL VALVE VAULTS SHALL BE EQUIPPED WITH A NEENAH R-1772-C FRAME W/SOLID LID WITH THE WORDS "WATER" CAST IN THE LID. VALVE VAULT' AND LIDS SHALL BE IN ACCORDANCE WITH THE STANDARDS DETAILS OF THE VILLAGE.
THE SEWER SYSTEM BY THE CONTRACTOR DURING THE COURSE OF CONSTRUCTION TO CONNECTION, WYE LOCATIONS, BACKFILLING, ETC. THE COMPLETED PROJECT MUST SATISFY LOMBARD.	13.	THE VALVE VAULT FRAME AND LID SHALL BE ADJUSTED TO FINAL GRADE BY RUBBERIZED ADJUSTING RINGS OR PRECAST CONCRETE ADJUSTING RING PRECAST CONCRETE ADJUSTING RING NOT LESS THAN TWO (2) INCHES THICK MAY BE USED. THE ADJUSTING RINGS SHALL HAVE A MINIMUM HEIGHT (3) INCHES AND A MAXIMUM COMBINED HEIGHT OF TWELVE (12) INCHES. A MAXIMUM OF THREE (3) ADJUSTING RINGS (ALL RUBBER AND OF RUBBI CONCRETE MIX) WILL BE ALLOWED ALL ADJUSTING RINGS AND FRAME SHALL BE SEALED WITH BITUMINOUS NON-PREFORMED NON-HARDENING MAST
E OPPOSITE THE TERMINUS OF EACH SEWER SERVICE. AFTER CONSTRUCTION OF THE RACTOR SHALL NOTCH THE STREET OPPOSITE THE TERMINUS OF EACH SEWER SERVICE. CORD OF SEWER SERVICE LOCATION, THE CONTRACTOR SHALL KEEP A RECORD OF THE REST DOWNSTREAM MANHOLE, SUCH RECORDS SHALL BE DELIVERED TO THE VILLAGE OF	14.	ASSURE WATER TIGHTNESS. CONCRETE BLOCKS, BRICKS OR METAL SHIMS SHALL NOT BE USED FOR ADJUSTMENTS AND MORTAR MAY NOT BE USED ACHIEVING WATER TIGHTNESS. VALVE VAULTS, SIDEWALL AND BASE CONSTRUCTION SHALL CONFORM TO THAT REQUIRED FOR CATCH BASINS AND MANHOLES.
TING CAPACITY, FLOW, OPERATION OF UNITS, OR POINT OF DISCHARGE SHALL BE APPROVED, ARE MADE AND SHALL BE SHOWN ON THE AS—BUILT DRAWINGS.	15.	FIRE HYDRANTS SHALL BE WATEROUS WB-67 FLANGE TYPE, WITH A FIVE AND A QUARTER (5 ¼) INCH VALVE OPENING, TWO (2), TWO AND ONE-HALF (2 ½) INCH HOSE NOZZLES, AND ONE (1) FOUR AND ONE-HALF (4 ½) INCH PUMPER NOZZLE, AND SHALL BE EQUIPPED WITH NATIONAL STANDARD THREADS AND OPERATION NUTS. AL CONNECTING PIPE BOTTOM FLANGES SHALL BE MECHANICAL JOINT.
TE STREETS, AS WELL AS PRIVATE PARKING LOTS, SHALL BE BASED ON THE MINIMUM	16.	FIRE HYDRANTS SHALL MEET THE SPECIFICATIONS OF AWWA C-502, 300 PSI TEST AND 150 PSI WORKING PRESSURE.
e village engineer will review those streets and shall have a final punchlist	17.	EACH HYDRANT SHALL INCORPORATE A SIX (6) INCH AUXILIARY VALVE AND BOX. ALL AUXILIARY VALVES SHALL BE CONNECTED TO THE HYDRANT. CO OF THE HYDRANT AND AUXILIARY VALVE ASSEMBLY SHALL BE DIRECT. THE INSTALLATION OF THE FIRE HYDRANTS AND AUXILIARY VALVES SHALL BE II ACCORDANCE WITH VILLAGE DETAILS.
LL DEFICIENT AREAS SHALL BE REPAIRED ACCORDING TO THE REQUIREMENTS OF THE E VILLAGE ENGINEER MAY, AT HIS DISCRETION, REQUIRE SUPPLEMENTAL INSPECTIONS, SUCH IN ORDER TO DETERMINE THE STRUCTURAL STABILITY OF THE EXISTING PAVEMENT MATERIAL,	18.	FIRE HYDRANT AUXILIARY GATE VALVES (COMPLETE) WITH ROADWAY BOX SHALL BE MUELLER H-10366, CLOW F-4700 OR APPROVED EQUAL.
JCTED OF A MINIMUM OF SIX (6) INCH PORTLAND CEMENT CONCRETE PAVEMENT WITH	19.	HYDRANTS SHALL BE SET PLUMB, WITH THE NOZZLE AND STEAMER CONNECTION FACING THE ROADWAY, SET NOT LESS THAN EIGHTEEN (18) INCHES MORE THAN TWENTY-FOUR (24) INCHES ABOVE FINISHED GRADE. HYDRANTS SHALL BE LOCATED NOT LESS THAN THREE (3) FEET NOR MORE THAN TEN (10) FEET BEHIND TH
I ACCORDANCE WITH SECTION 301 OF THE STANDARD SPECIFICATIONS FOR THE ROAD AND F TRANSPORTATION. PARTICULAR ATTENTION IS DIRECTED TO THE REQUIREMENTS FOR THE N ARTICLE 202.03 EMBANKMENT SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH	20.	OR END OF A HARD SURFACED ALL WEATHER FIRE LANE WHICH SHALL BE A MINIMUM OF TEN (10) FEET IN WIDTH. BLOCKING TO PREVENT MOVEMENT OF LINES UNDER PRESSURE AT BENDS, HYDRANTS, AND FITTINGS, SHALL BE PORTLAND CEMENT CONCRETE, A MI TWELVE (12) INCHES THICK, PLACED BETWEEN SOLID GROUND AND THE FITTINGS IN SUCH A MANNER THAT PIPE FITTINGS AND JOINTS WILL BE ACCESSIBLE FOR REPAIR. ALL BENDS OF ELEVEN AND ONE QUARTER (11 1/4) DEGREES OR GREATER, AND ALL TEES
MOVED AND REPLACED WITH SUITABLE FILL MATERIAL OR THE PAVEMENT MUST BE DESIGNED	21.	SHALL BE THRUST PROTECTED TO PREVENT MOVEMENT OF THE LINE UNDER PRESSURE. ALL CONNECTIONS TO THE VILLAGE WATER DISTRIBUTION SYSTEM SHALL BE MADE UNDER FULL WATER SERVICE PRESSURE UNLESS OTHER WISE APP
NCE WITH AASHTO T99) SHALL BE TAKEN IN EACH FILL SECTION, WITH THE MAXIMUM R TEST SHALL BE TAKEN FROM EACH DIFFERENT SOURCE OF BORROWED MATERIAL, IF TESTS MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE VILLAGE ENGINEER. THE TION OF THE SUBGRADE. THE SUBGRADE MUST BE APPROVED PRIOR TO PLACING ANY TYPE TING WILL BE THE RESPONSIBILITY OF THE DEVELOPER.	22.	(GENERAL DESCRIPTION). A WATER SERVICE LINE, FOR THE PURPOSE OF THIS MANUAL, IS DEFINED AS A WATER PIPE DESIGNED TO DELIVER WATER WATERMAIN TO A SINGLE BUILDING, EXTENDING FROM THE WATERMAIN TO THE BUILDING AND INCLUDING CORPORATION COCK, STOP COCK AND BUFF IN RIGHTS-OF-WAY, THE SERVICE LINE SHALL BE AT APPROXIMATELY A RIGHT ANGLE TO THE CENTERLINE OF THE RIGHT-OF- WAY. EACH DWELLIN MUST INCLUDE A SEPARATE SERVICE LINE WITH A B-BOX.
COMPLY WITH THE STATE OF ILLINOIS CLASS I, AS SET FORTH IN SECTION 406 OF THE THE BASE COURSE AT A RATE OF 0.40 GALLONS PER SQUARE YARD.	23.	WATER SERVICE CONNECTIONS FROM ONE (1) INCH DIAMETER THROUGH TWO (2) INCH DIAMETER SHALL BE TYPE K (SOFT) COPPER TUBING MEETING SPECIFICATIONS OF THE FOLLOWING TABLE AND ASTM B-88 AND B-251:
S AFTER PRIMING, A BITUMINOUS CONCRETE BINDER COURSE (MIXTURE B) SHALL BE ESS OF THE BINDER AND COMPACTED GRANULAR BASE SHALL BE LISTED ON THE PLANS.	1.00	NOMINAL SIZE(IN.) 0.D. (IN.) WALL THICKNESS (IN.)POUNDS PER FOOT 1.1250.0650.5131.501.6250.0720.8332.002.1250.0821.027
BASE AND BINDER COURSE ON A SAFE AND PASSABLE CONDITION UNTIL THE SAID BASE IS MENT OF THE ENGINEER, WOULD CONSTITUTE A HAZARD TO VEHICULAR OR PEDESTRIAN RESTORE THE ROADWAY TO A SAFE CONDITION. IF THE CONTRACTOR DOES NOT CORRECT ION BY THE ENGINEER, THEN THE VILLAGE MAY PERFORM REMEDIAL WORK AND BILL THE	24.	WATER SERVICE CONNECTIONS OVER TWO (2) INCHES IN DIAMETER SHALL BE DUCTILE IRON PIPE WATERMAIN AND SHALL COMPLY WITH ALL SPECIFIC FOR WATERMAINS, FITTINGS, VALVES, VALVE VAULTS, AND APPURTENANCES. ALL TAPS MADE INTO CAST IRON WATERMAIN FOUR (4) INCHES IN DIAME INCORPORATE AN APPROVED TAPPING CLAMP. THREE (3) INCH WATER SERVICE CONNECTIONS WILL NOT BE PERMITTED. ALL COPPER CONNECTIONS S MADE WITH FLARED JOINTS. COMPRESSION TYPE JOINTS SHALL BE ALLOWED UNDERGROUND OFF THE CORPORATION STOP AND ROUNDWAY KEY STOP WATER SERVICE SHALL HAVE A MINIMUM OF FIVE (5) FEET–SIX (6) INCHES OF COVER ON THE SERVICE. AT TIME OF CONSTRUCTION, ALL WATER SERVICE
FOR A MINIMUM OF TEN FALLATION OF THE SURFACE COURSE.		SHALL BE LEFT COMPLETELY EXPOSED UNTIL A REPRESENTATIVE OF THE VILLAGE OF LOMBARD HAS INSPECTED THEM. TWENTY-FOUR (24) HOURS REQUIRED FOR SUCH INSPECTION. AT THE TIME THE INSPECTION IS MADE, A REPRESENTATIVE OF THE CONTRACTOR SHALL BE PRESENT. THE CONTR MAKE ALL WATER SERVICE TAPS INTO EXISTING MAINS, THE CONTRACTOR SHALL GIVE TWENTY-FOUR (24) NOTICE TO THE WATER DEPARTMENT OF TH BEFORE ANY WATERMAIN IS TO BE TAPPED. AT THE TIME THE TAP IS MADE, A REPRESENTATIVE OF THE CONTRACTOR SHALL BE PRESENT.
ONS PER SQUARE YARD, AFTER WHICH BITUMINOUS SURFACE COURSE, CLASS I, MODIFIED, TO SEAL ANY SHRINKAGE CRACKS WHICH BECOME APPARENT WITHIN ONE (1) YEAR AFTER THICKNESS LISTED ON THE PLANS.	25.	ALL WATER SERVICES LARGER THAN TWO (2) INCHES SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF 150 PSI GAUGED FOR A PERIOD OF THAN ONE (1) HOUR, SUCH HYDROSTATIC TEST SHALL BE WITNESSED BY AN AUTHORIZED REPRESENTATIVE OF THE VILLAGE OF LOMBARD. ALL WATE USED FOR FIRE PROTECTION SHALL BE CHLORINATED AFTER SATISFACTORY RESULTS OF THE HYDROSTATIC TEST. WATER SERVICES ARE NOT TO FXC
RMANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AT THE LOCATIONS AND IN 2) CONTINUOUS #4 BARS OF REINFORCING STEEL CRETE CURB AND GUTTER SHALL BE AS INDICATED BY CONSTRUCTION DETAILS. THE CATIONS.	26.	MAXIMUM DEPTH OF EIGHT (8) FEET FROM PROPOSED FINISHED GRADE. IN ALL DEVELOPMENT, WATER SERVICE TAPS MUST BE MADE AFTER PRESSURE TESTING AND CHLORINATING.
WO (2) 3/4 INCH DOWEL BARS SHALL BE INSTALLED AT 45 FOOT INTERVALS AND AT ALL ET. THE DOWEL BARS SHALL BE 18 INCHES LONG AND SHALL BE PROPERLY GREASED AND AT 15–FOOT INTERVALS.	27.	THE CORPORATION STOP FOR A 1" WATER SERVICE SHALL BE MUELLER COMPANY H-15008N, FORD F600-NL OR APPROVED EQUAL; FOR 1.5' AND SERVICES THE CORPORATION STOP SHALL BE MUELLER COMPANY B-25008N, FORD FB600-NL OR APPROVED EQUAL AND SHALL BE INSTALLED BY TARRING THE WATERMAIN WITH AN APPROVED TARRING MACHINE. THE TAR SHALL BE MADE IN THE LIPPER THIRD OF THE MACHINE.
(ALKWAYS AND SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE TO A MINIMUM INIMUM OF A 6 BAG MIX WITH A MINIMUM OF 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI. HAN FOUR (4) PERCENT, NO MORE THAN SEVEN (7) PERCENT ENTRAINED AIR. THE SLUMP JR (4) INCHES. ALL SIDEWALKS CONSTRUCTED WITHIN THE VILLAGE SHALL BE IN	28.	CLOSE TO A FORTY-FIVE (45) DEGREE ANGLE AS IS PRACTICAL. A TAP INTO THE TOP OF THE MAIN WILL NOT BE PERMITTED. SERVICE LINES GREAT 1" IN DIAMETER SHALL HAVE A STAINLESS STEEL BANDED DUCTILE IRON SADDLE, SMITH BLAIR 238 FULL CIRCLE REPAIR CLAMP OR APPROVED EQUA THE ROUNDWAY KEY STOP SHALL BE MUELLER COMPANY B-25155 OR FORD B22-444M, WITH A MUELLER H10302 MINNEAPOLIS PATTERN BUFFALO
5 MUST HAVE CURING COMPOUND APPLIED IN ACCORDANCE WITH THE STATE STANDARDS.	29.	THE ROUNDWAY KEY STOP AND BUFFALO BOX SHALL BE LOCATED WITHIN THE PARKWAY AREA SEVEN (7) FEET FROM THE PROPERTY LINE OR AS A
BASE COURSE WILL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. BASE AND R, PREPARING AND PRIMING THE BASE COURSE AT THE SPECIFIED RATE AND PLACING AND PRIOR TO THE CONSTRUCTION THE SURFACE COURSE THE BASE COURSE SHALL BE	30	BY THE DIRECTOR OF PUBLIC WORKS OR HIS AUTHORIZED REPRESENTATIVE. THE COVER OF THE BUFFALO BOX SHALL HAVE THE WORD "WATER" CAS THE CONTRACTOR SHALL RECORD THE LOCATION OF EACH BUFFALO BOX AND TAP IN RELATION TO THE NEAREST CORNER LOT LINE. TWO COPIES O RECORD SHALL BE FILED WITH THE VILLAGE PRIOR TO FINAL INSPECTION.
O SIDEWALK IMPROVEMENTS, INCLUDING THE USE OF ALL MACHINERY, EQUIPMENT AND TOOLS, OF ALL OTHER WORK NECESSARY TO COMPLETE THE PROPOSED IMPROVEMENTS, SHALL BE THE STATE'S STANDARD SPECIFICATIONS. THE MATERIAL FOR THOSE IMPROVEMENTS SHALL ATE STANDARD SPECIFICATIONS.		WATER SERVICE INSTALLATIONS. WHEN COMPLETE AND INSTALLED, IN CONFORMANCE WITH SPECIFICATIONS, THE CONTRACTOR OR DEVELOPER SHALL OF THE PRIVATE ENGINEERING SERVICES DIVISION OF THE VILLAGE OF LOMBARD TO SET UP FINAL INSPECTION FOR THE VILLAGE ACCEPTANCE AND FUTL MAINTENANCE OF THE INSTALLATION. PRIOR TO THE FINAL INSPECTION THE CONTRACTOR OR THE DEVELOPER SHALL SEE THAT ALL ON SURFACE WAT APPURTENANCES ARE CLEARLY VISIBLE AND LOCATABLE AND OPERABLE.
ET FINISHED GRADE. THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IODIC INSPECTION BY A REPRESENTATIVE OF THE ENGINEER. NO PROJECTS WILL BE SINEER.	31.	ALL WATERMAINS OR ANY VALVED SECTION OF A WATERMAIN SHALL BE PARTIALLY BACKFILLED. IT SHALL THEN BE SUBJECTED TO A HYDROSTATIC PF OF 150 PSI GAUGED. THE DIRECTOR OF PUBLIC WORKS OR HIS AUTHORIZED REPRESENTATIVE SHALL WITNESS THE PRESSURE TEST. ALLOWABLE LEA SHALL NOT EXCEED A FIVE (5) POUND LOSS FOR FOUR (4) HOURS AND THE VILLAGE MAY EXERCISE THE RIGHT TO CONTINUE THE TEST TO THE M (6) HOUR DURATION. ALLOWABLE LEAKAGE FOR THE HYDROSTATIC PRESSURE OF 150 PSI GAUGED IS BASED ON THE FOLLOWING TABLE:
NG, AS PROVIDED FOR IN THESE SPECIFICATIONS AND IN THE STANDARD SPECIFICATIONS. A IE TESTING AT THE COST OF THE DEVELOPER. IF ANY IMPROVEMENTS ARE FOUND TO BE		MAIN SIZE ALLOWABLE LEAKAGE
PRIOR TO ANY PAVING OR CURB IMPROVEMENTS. TESTING REPORTS MUST BE SUBMITTED TO OVAL. BASE COURSE MATERIALS MUST ALSO BE INSPECTED AND TESTED. DENSITY TESTING OF TS MUST BE SUBMITTED TO THE VILLAGE ENGINEER OR HIS		10" 0.92 GALLON/HR/1000' OF MAIN 8" 0.74 GALLON/HR/1000' OF MAIN 6" 0.55 GALLON/HR/1000' OF MAIN 4" 0.37 GALLON/HR/1000' OF MAIN

		ALLC	OWABLE LEAKAGE FOR MAIN SIZES GREATER THAN TWELVE (12) INCHES SHALL BE AS INDICATED IN THE VILLAGE ORDINANCES OR AS DIRECTED BY THE					
EFECTS AND	32.	THE OF	WATE ENGINEERING SERVICES DIVISION OF THE VILLAGE OF LOMBARD. WATERMAIN OR ANY VALVE SECTION SHALL BE CHLORINATED ONLY AFTER THE RESULTS OF THE HYDROSTATIC TEST ARE SATISFACTORY TO THE DIRECTOR PUBLIC WORKS OR HIS AUTHORIZED REPRESENTATIVE AND THE VALVED SECTION HAS BEEN FLUSHED. THE LIQUID CHLORINE GAS MIXTURE METHOD OF					
N OF THE ITACT, AND		PRO A.	CEDURE, AS STATED HEREINAFTER, SHALL BE FOLLOWED: PRIOR TO CHLORINATION, ALL DIRT AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE MAIN, OR ANY VAVLED SECTION, BY A THOROUGH FLUSHING THROUGH THE HYDRANTS, OR BY OTHER APPROVED METHODS.					
		В.	A CHLORINE GAS—WATER MIXTURE SHALL BE APPLIED BY MEANS OF A SOLUTION FEED CHLORINATION DEVICE, OR IF APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS AUTHORIZED REPRESENTATIVE, THE GAS SHALL BE FED DIRECTLY FROM A CHLORINE CYLINDER EQUIPPED FOR DIFFUSION OF THE GAS WITHIN THE PIPE. ALL SAMPLE TAPS FOR CHLORINE INJECTION SHALL BE PROVIDED FOR IN THE VALVE VAULT.	ARKS F	,			
XY COATED N POLY		C.	THE PREFERABLE POINT OF APPLICATION OF THE CHLORINATING AGENT SHALL BE THROUGH A CORPORATION STOP INSERTED NEAR THE HORIZONTAL AXIS OF THE PIPE AT THE BEGINNING OF THE PIPE LINE EXTENSION OF ANY VALVE SECTION TO BE PLACED IN SERVICE. THE WATER INJECTOR FOR DELIVERING THE GAS—WATER MIXTURE INTO THE PIPE SHALL BE SUPPLIED BY A TAP ON THE PRESSURE SIDE OF A VALVE CONTROLLING THE FLOW INTO THE PIPE TO	REA TECT /VILLAG				
51, WITH 1/AWWA PECIFICATION		D.	BE CHLORINATED. WATER FROM THE PRESSURE SIDE OF THE VALVE OR OTHER SOURCE OF SUPPLY SHALL BE CONTROLLED TO FLOW VERY SLOWLY INTO THE NEWLY LAID	PER ARCHI				
ACE OR			WATER ENTERING THE APPLICATION OF CHLORINE. THE RATE OF CHLORINE GAS-WATER MIXTURE FLOW SHALL BE IN SUCH PROPORTION TO THE RATE OF WATER ENTERING THE PIPE THAT THE CHLORINE DOSE APPLIED TO THE WATER ENTERING THE NEWLY LAID PIPE SHALL HAVE A CHLORINE RESIDUAL OF NOT LESS THAN 100 PPM. IT SHALL BE LEFT IN CONTACT WITH THE MAIN FOR AT LEAST TWENTY-FOUR (24) HOURS WITH A 50 PPM CHLORINE RESIDUAL REMAINING AFTER THE CONTACT PERIOD.	REVISED		Ц		
		E.	FOLLOWING THE CHLORINATION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE NEW SECTION OF MAIN. SAMPLES SHALL BE COLLECTED FOR BACTERIOLOGICAL ANALYSIS ON TWO (2) SUCCESSIVE DAYS FROM VARIOUS POINTS ON THE NEW PORTION OF THE SYSTEM UNDER THE SUPERVISION OF THE WATER DEPARTMENT SUPERINTENDENT OR HIS AUTHORIZED REPRESENTATIVE. THE SAMPLES WILL BE TESTED FOR POTABILITY IN A LABORATORY	DATE 1 / 23 / 2023	1/ 20/ 2022			
FOURTEEN	77	тис	APPROVED BY THE STATE OF ILLINOIS. A REPORT WILL BE FURNISHED TO THE VILLAGE, INDICATING NEGATIVE BACTERIOLOGICAL SAMPLES. THE SAMPLES SHALL BE TAKEN AT APPROXIMATE TWENTY-FOUR (24) HOUR INTERVALS.	- NO.	:	┢╋		
D WITH	55.		IPLETED AND INSTALLED, IN CONFORMANCE WITH THE SPECIFICATIONS, TO SET UP A FINAL INSPECTION FOR VILLAGE ACCEPTANCE AND FUTURE ITENANCE OF THE EXTENSION. AS-BUILT SEPIA MYLARS ARE REQUIRED AFTER INSTALLATION OF THE WATERMAIN IMPROVEMENTS.			<u> </u>		
	34.	WHE Sho Feet High	ENEVER POSSIBLE, A WATERMAIN MUST BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN OR SEWER LINE. DULD LOCAL CONDITIONS EXIST WHICH WOULD PREVENT A LATERAL SEPARATION OF TEN (10) FEET, A WATERMAIN MAY BE LAID CLOSER THAN TEN (10) T TO A STORM OR SANITARY SEWER PROVIDED THAT THE WATERMAIN INVERT IS AT EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE SEWER, AND IS HER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER. IF IT IS IMPOSSIBLE TO					
SQUARE	35	OBT/ PIPE	AIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS DESCRIBED ABOVE, BOTH THE WATERMAIN AND SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON E (DIP) TO WATERMAIN STANDARDS.			S)439	
OF NOT	35.	OF S	SERVICE SERVICE SAND APPURTENANCES FROM THE VILLAGE WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPAL CODE THE VILLAGE OF LOMBARD, AMERICAN WATER WORKS ASSOCIATION SPECIFICATIONS, AMERICAN STANDARD ASSOCIATION SPECIFICATIONS, AND STANDARD OF THE VILLAGE OF LOMBARD, AMERICAN WATER WORKS ASSOCIATION SPECIFICATIONS, AMERICAN STANDARD ASSOCIATION SPECIFICATIONS, AND STANDARD		5	EER	INOIS 60	n
T'S FRAMES	36.	ALL	PROPOSED WATERMAIN SHALL BE POLYWRAPPED.			IGIN	ONT, ILL	
IGS. ONE (1) T OF THREE	37.	ALL RIGH	WATER SERVICE STUBS THAT ARE NOT USED FOR THE DEVELOMENT SHALL BE ABANDONED AT THE WATERMAIN AND REMOVED FROM THE PUBLIC IT-OF-WAY.				7 - LEMC	MMM
BER AND STIC TO D FOR	ERC	SION	CONTROL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENTATION		ζ	TING	SUITE 1 2467	
	2.	PERI	MANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED WITHIN 15 CALENDAR DAYS OF THE END OF ACTIVE SOIL DISTURBANCE.			ISUL	TREET - 330-520-3	
ALL	3.	SEDI	IMENTATION BASINS, BARRIERS, AND ALL APPROPRIATE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO MASS GRADING.			CON	MAIN S	
	5.	DEP/	ARTMENT OF ENVIRONMENTAL CONCERNS AND THE VILLAGE OF LOMBARD.				80	
ONNECTION	6.	UPO	IN COMPLETION OF THE RETENTION FACILITY, INSTALL PERMANENT SEEDING ON SIDE SLOPES AND DISTURBED AREAS.					
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			Copyright © 2020 Advantage Consulting Engineers, LLC		14	↓ OF	18	

- area, the contractor shall use P1215 DWV bushing and G106 cap manufactured by Plastic Trends, Inc. (ASTM 3034-16). Gasket shall be removed from cap.
- the contractor shall use schedule 40 DWV FIPT hub adapter and the raised MIPT plug (ASTM D2665-20 or ASTM D1785-15e1) and an EJ frame (2885) and lid (2975). Equivalent fittings from other manufacturers are acceptable at the discretion of the Village Engineer. Only written acceptance will constitute approval of a substitute

	Paved areas refer to Note 4	Landscaped or unpaved areas refer to Note 6
	Finished Grade_	Finished Grade
of	Pavement	
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	Keese Seese Seese Seese Trench	
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e.		
3)		Backfill with suitable material
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	Backfill with granular — \	Angle of repose as calculated by OSHA for sloping
	material (CA-6 gradation)	excavations in various types of soil (AVG. Soil = 1:1 s
	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Note that portable trench shields may be used in lieu
	\	sioping.
		MIN. 12" Granular cover (CA-7)
		Bedding and initial backfill (CA-7)
	6" MIN. \500000	
		Remove unsuitable material and replace with granula
	*********	Village Engineer
		Trench width shall be the minimum required in order to comply
	GENERAL NOTES:	with OSHA safety standards.
	1. The contractor shall comply with all applicable	e governing regulations, including but not limited to OSHA safety standa
	2. Deddies thiskness shall be a minimum of six	(C) include an one swarten (1/1) of the systemicial dispersion of the size
	2. Bedding thickness shall be a minimum of six	(6) inches of one quarter (1/4) of the outside diameter of the pipe,
	whichever is greater.	
	3 All bedding and nine backfill material up to be	hight of 12 inches above the nine shall be carefully deposited in uniform
	lavers not exceeding 6 inches thick (loose m	easure) Each lift shall be compacted by mechanical means to the
	satisfaction of the Engineer	
	4. Under paved and/or hard surfaces, granular t	packfill material (CA-6) shall be placed and compacted as specified per
	Illinois Department of Transportation Standar	rd Specifications for Road and Bridge, Section 550.07 Method 1. The u
	of jetting (Method 3) shall not be allowed unle	ess authorized in writing by the Village Engineer. It shall be the contract
	responsibility to provide appropriate justificat	ion in a written request to the Village Engineer for approval of jetting.

TADV SELIED		REV.: BBW REV.: 2-18-21	CANITADV CEVED	
IARI SEWER	VILLAGE OF LUMBARD	REV.: DRG REV.: 4-20-17	SANTIARI SEWER	VILLAGE OF LUMBARI
	SANITARY 54	DRAWN BY: VJGL DATE: 2-16-98		SANITARY 5
NCH SECTION	SANITART JA		IKENUH SEUTIUN	SANITART J

MIN 12" Granular cover (CA-7) 6" MI			excavations in various	types of soil (AVG soil= 1:1	DATI /23/		Ť
 GENERAL NOTES: 1. The contractor shall comply with all applicable of 2. Bedding thickness shall be a minimum of six(6); 3. All bedding and pipe backfill material (up to a h Each lift shall be compacted by mechanical metach lift shall be compacted by mechanical metach lift shall be construction, Section 550.01 responsibility to provide appropriate justifications for Road and Bridge Construction. 5. Granular material for backfill and bedding shall Specifications for Road and Bridge Construction. 6. Under landscaped areas suitable backfill materiat the Village Engineer. It shall be the contractor approval of jetting. 7. When the inside edge of the trench is within tw 8. The minimum cover over the top of the waterm 	governing regulations, including but in inches or one quarter (1/4) of the ou- eight of 12 inches above the pipe) sh earns to the satisfaction of the Engine inches or one quarter (1/4) of the ou- eight of 12 inches above the pipe) sh earns to the satisfaction of the Engine inchfill material (CA-6) shall be placed I Method 1. The use of jetting (Methor on (in the form of documentation) to fi- be gravel, crushed gravel of stone in on for course aggregate of the gradar rial shall be placed and compacted a is responsibility to provide appropriate o (2) feet of the proposed or existing ain shall be five (5) foot six (6) inche	Protective Beda Beda Beda Beda Beda Beda Beda Bed	slope). Note that porta trench shields may be wrapping of the waterma ding and initial backfill (C ntered, remove unsuitab ace with granular materi ted by the Village Engine all be the minimum requ andards. 'is greater. ayers not exceeding 6 inches brized in writing by the Village for the approval of jetting. Department of Transportation hall be allowed. g (method 3) shall not be allow tation) to the Village Engineer , sidewalk, or driveway, granu	<pre>types of soli (AVG soli– 1.1 ple trench boxes or sliding used in lieu of sloping. ain is required A-7) le material al (CA-11), er. ired in order to comply with thick (loose measure). ation Standard Specifications for Engineer. It shall be the contractor's a Standard wed unless authorized in writing by with the request for the lar material per note 4 shall be used.</pre>	ADVANTAGE	CONSULTING ENGINEERS) MAIN STREET - SUITE 17 - LEMONT, ILLINOIS 60439
21. A SPLIT-RAIL FENCE AT LEAST WALK OR PATH IS ON THE TOP SII DEVELOPMENT MAY REQUIRE, OR TH OF FENCE IF DEEMED APPROPRIATE SIMILARLY LOCATED THEN A GUARD 22. A SPLIT-RAIL FENCE AT LEAST WITHIN 5' OF A WALK OR PATH ANI COMMUNITY DEVELOPMENT MAY REQU AND CHARACTERISTICS. IF A PARKI USED IN LIEU OF A FENCE.	42' HIGH SHALL BE CONSTI 42' HIGH SHALL BE CONSTI DE OF THE WALL AND WITHIN E OWNER/DEVELOPER MAY P BASED ON SPECIFIC SITE C RAIL PER IDOT SPECIFICATION 42' HIGH SHALL BE CONSTE D ESCENDS CONTINUOULSY T IRE AN ALTERNATIVE TYPE NG LOT OR DRIVEWAY IS SI	RUCTED ALONG THE TOP OF A N 5' OF THE EDGE OF THE W ROPOSE (SUBJECT TO APPROV CONDITIONS AND CHARACTERIS DNS SHALL BE USED IN LIEU RUCTED ALONG THE TOP OF A RO THE TOP OF A RETAINING OF FENCE IF DEEMED APPROF MILARLY LOCATED THEN A GU	VILLA NY RETAINING WALL HI ALL. THE DIRECTOR OF VAL BY THE DIRECTOR), TICS. IF A PARKING LI OF A FENCE. NY SLOPE STEEPER THA WALL HIGHER THAN 3', PRIATE BASED ON SPECI JARDRAIL PER IDDT SPE	GE OF LOMBARD WATER 7 GHER THAN 3' WHEN A COMMUNITY AN ALTERNATIVE TYPE IT OR DRIVEWAY IS IN 4HIV THAT STARTS THE DIRECTOR OF FIC SITE CONDITIONS CIFICATIONS SHALL BE	DETAILS	KD VETERINARY HOSPITAL E ST. CHARLES ROAD	ADD II INDIS 60148
						S. FRONTAGE ROAD, SUITE 106 244	

IMPERVIOUS AREA SUMMARY

EXISTING IMPERVIOUS AREA	55,772	S.F.
PROPOSED IMPERVIOUS AREA	56,631	S.F.
NET ADDITIONAL IMPERVIOUS AREA	859	S.F.
TOTAL PERMEABLE PAVER AREA	9,022	S.F.

SINCE ADDITIONAL IMPERVIOUS AREA IS LESS THAN 5,000 S.F., DETENTION VOLUME IS NOT REQUIRED. VCBMP WILL BE REQUIRED.

VCBMP VOLUME REQUIRED						
TOTAL IMPERVIOUS AREA	56,631	S.F.				
VCBMP RATE REQUIRED	1.25	INCH				
VCBMP VOLUME REQUIRED	5,899	С.F.				
STORAGE VOLUME PROVIDED						
AREA OF INFILTERATION TRENCH	9,022	S.F.				
DEPTH OF CA-7 STONE	2.000	FT				
VOLUME OF CA-7 STONE	18,044	C.F.				
VOID RATIO	0.360					
VCBMP VOLUME PROVIDED =	6,496	C.F.				

STAGE-STORAGE-DISCHARGE RELATIONSHIP

EXISTING DETENTION POND						
ELEV.	AREA	DEPTH (H)	V=H/3(A1+A2+Sqrt	CUMM VOL.		
	S.F.	FT.	(A1*A2)), AC FT	AC FT		
711.00	-					
712.00	696	1.00	0.01	0.01		
713.00	1,817	1.00	0.03	0.03		
714.00	5,497	1.00	0.08	0.11		

DETENTION VOLUME PROVIDED						
793 LF OF 36" PIPE		VOLUME, C.F. =722*7.069		5,104		
		VOLUME PROVIDED, C.F.= 5,10				
		VOLUME PROVIDED, AC FT= 0.12				

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