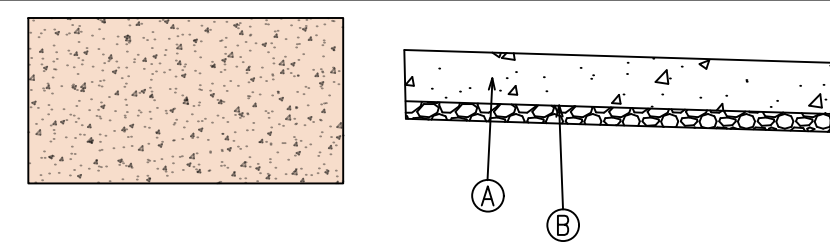


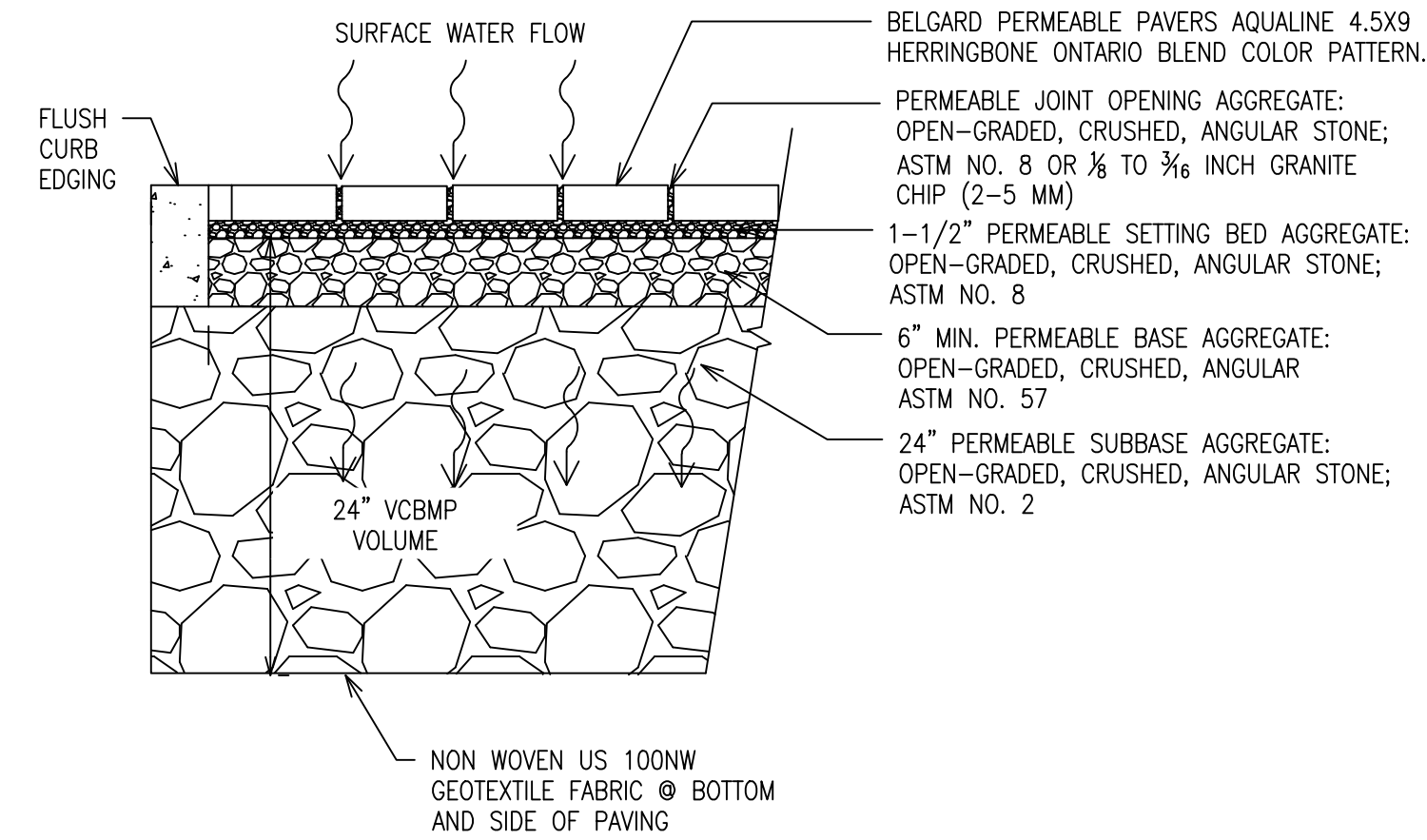


**GENERAL NOTES**

- ALL PAVING AND RELATED CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION AND ALL AMENDMENTS THERE TO 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 800-692-0123, AND THE MUNICIPALITY FOR UTILITY LOCATIONS.
- NO CONSTRUCTION PLAN SHALL BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY MARKED "FOR CONSTRUCTION." PRIOR TO 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.
- NOTIFICATION OF COMMENCING CONSTRUCTION
  - THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR HIS REPRESENTATIVE AND THE AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY, ALL TESTING AGENCIES, EITHER MUNICIPALITY'S OR THE OWNER'S, SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.
  - 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 PROPERTIES SURROUNDING THE SITE.
- ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
- 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 FROM PLAN GRADE.
- 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, 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 DISPOSAL.
- 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 & MUNICIPALITY.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB IN ACCORDANCE WITH OSHA REGULATIONS.
- 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 THE HAULING AND DISPOSAL REQUIRED FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
- 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 MUNICIPALITY OR D.O.T.
- 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 FORMS HAVE BEEN SET.
- 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.
- AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
- 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.
- 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.
- ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL CUTS OVER 1" IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH. WOUNDS OVER 1" IN DIAMETER SHALL BE PAINTED WITH AN APPROVED TREE PAINT.
- ANY DEWATERING OF SEWER AND WATER TRENCHES AS WELL AS TEMPORARY SHEETING OR BRACING THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL NOT BE CONSIDERED EXTRA WORK. IN THE EVENT 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 PIPE.
- CONTRACTOR SHALL VIDEO TAPE WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.
- TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE ALL UNDERGROUND UTILITIES WITHIN TWO FEET OF PROPOSED OR 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 C4-B.
- 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.
- 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 WATER AT HIS EXPENSE.
- 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.
- THE OWNER SHALL PROVIDE RECORD DRAWINGS PER MUNICIPAL REQUIREMENTS.



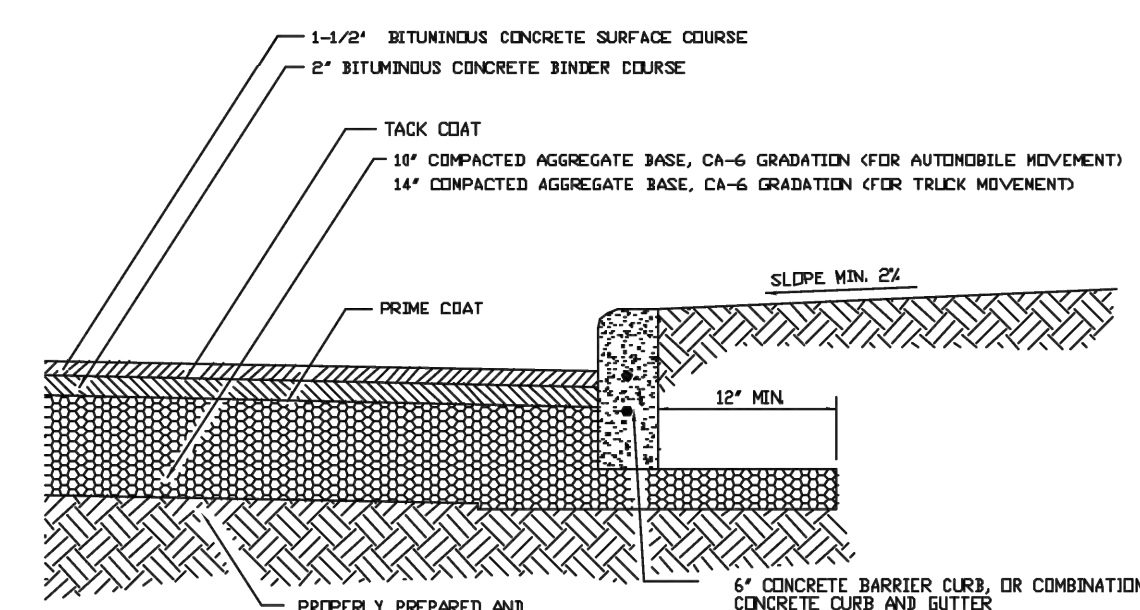
**DUMPSTER PAD**



**PERMEABLE PAVER DETAIL**  
N.T.S.

**NOTES:**

- ALL AGGREGATE MATERIAL SHALL BE CRUSHED, ANGULAR STONE AND FREE OF FINES.
- COMPACT SUBSOIL WITH A CALIFORNIA BEARING RATIO (CBR) OF LESS THAN 5% AS DIRECTED BY A GEOTECHNICAL ENGINEER.
- NEVER BUILD PERMEABLE PAVEMENTS ON ORGANIC CLAY SOILS OF HIGH PLASTICITY AND/OR PEAT, MULCH, SOILS WITH HIGH ORGANIC CONTENT.
- MAINTAIN A MINIMUM VERTICAL DISTANCE OF 2' BETWEEN BOTTOM OF PERMEABLE BASE AND WATER TABLE.
- THE MINIMUM AGGREGATE THICKNESS IS AFTER COMPACTION.



**FLEXIBLE PAVEMENT**

**GENERAL NOTES:**

- Dimensions shown are minimum values. Soil analysis and traffic counts shall be used for determining required pavement section.
- Integral curb and gutter shall not be permitted with rigid or composite pavements.
- The following materials are acceptable as base course alternatives:
  - Hot Mix Asphalt (HMA) Base Course
  - P.C. Concrete

REV.:	BBW	REV.:	3-17-21	VILLAGE OF LOMBARD	
REV.:	FMH	REV.:	3-19-99	PAVEMENT 13	
DRAWN BY:	V.JGL	DATE:	2-16-98		

**CONTACTS**

**ENGINEER**  
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PHONE: (647) 260-4758  
CONTACT:

**DEVELOPER**  
RWE DESIGN BUILD  
16W361 SOUTH FRONTAGE ROAD, SUITE 106  
BURR RIDGE, ILLINOIS 60527  
PHONE: (630) 734-0883  
CONTACT: JASON SANDERSON

**ARCHITECT**  
LINDEN GROUP ARCHITECTS  
10100 ORLAND PARKWAY, SUITE 110  
ORLAND PARK, ILLINOIS 60467  
PHONE: (708) 799-4400  
CONTACT: MICHAEL J. MATTHYS

**LEGEND**

PROPOSED	DESCRIPTION	EXISTING
	STORM SEWER	
	WATER MAIN WITH SIZE	
	SANITARY SEWER	
	RIGHT-OF-WAY	
	CONTOUR	
	SPOT GRADE	
	SANITARY MANHOLE	
	SANITARY CLEANOUT	
	STORM MANHOLE	
	STORM CATCH BASIN	
	FIRE HYDRANT	
	BUFFALO BOX	
	GATE VALVE W/VAULT	
	YARD DRAIN	
	STREET LIGHT	
	STREET LIGHT W/MAST	
	OVERFLOW DIRECTION	
	CURB	
	SILT FENCE	
	FENCE	
	CONSTRUCTION FENCE	
	ROAD SIGN	
	ELECTRIC	
	GAS	
	OVERHEAD WIRES	
	UTILITY POLE	
	DOWNSPOUT (TO UNDERGROUND)	
	DOWNSPOUT (TO SURFACE)	
	DEPRESSED CURB FOR RAMP/DRIVEWAY	
	TOP OF FOUNDATION	
	TOP OF CURB, DEPRESSED	
	TOP WALL, GROUND AT BOTTOM OF WALL	
	RIM FOR STRUCTURES	
	RISER FOR SANITARY SERVICE	
	HIGH/NORMAL WATER LEVEL	
	AUTOMATIC SPRINKLER	
	MAILBOX	
	TRAFFIC SIGNAL	
	TRAFFIC SIGNAL VAULT	
	TRAFFIC BOX	
	PEDESTAL	
	AIR CONDITIONER	
	WETLAND FLAG	
	TELEPHONE MANHOLE	
	ELECTRIC TOWER	
	ELECTRIC TRANSFORMER	
	ELECTRIC METER	
	ELECTRIC MANHOLE	
	GAS METER	
	GAS MANHOLE	
	WATER METER	
	HANDHOLE	
	IRON PIPE	
	RETAINING WALL	

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**GENERAL NOTES AND TYPICAL SECTIONS**  
LOMBARD VETERINARY HOSPITAL  
244 E ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

**RWE**  
DESIGN BUILD  
16W361 S. FRONTAGE ROAD, SUITE 106  
BURR RIDGE, ILLINOIS 60527

AUGUST 05, 2022  
JOB: 22-012

SHEET:  
**TS1**  
2 OF 18



NOTE:  
EXISTING TOPOGRAPHIC SURVEY & BOUNDARY PREPARED BY:  
REGIONAL LAND SERVICES.  
SEE BENCHMARK LOCATIONS AND DATA IN PLAN VIEW

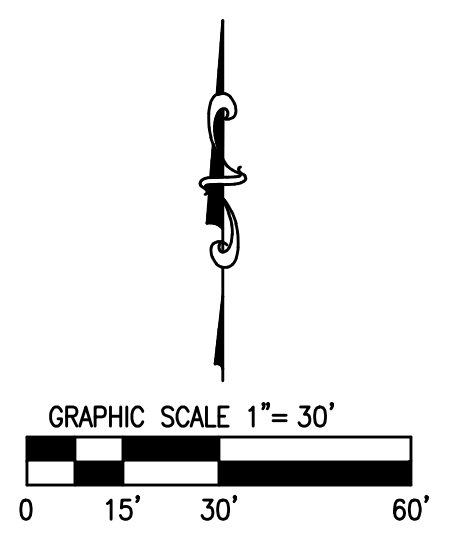
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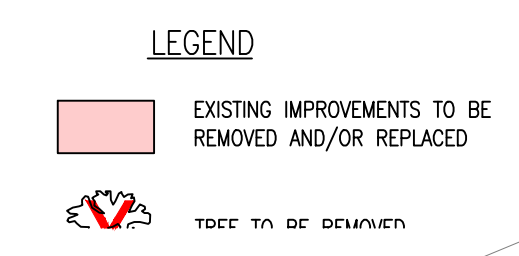
**EXISTING CONDITIONS**  
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LOMBARD, ILLINOIS 60148

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BURR RIDGE, ILLINOIS 60527

AUGUST 05, 2022  
JOB: 22-012  
SHEET:  
**EX1**  
3 OF 18



- DEMOLITION NOTES**
1. ALL EXISTING STORM MANHOLES AND CATCH BASINS SHALL BE EXCAVATED AND REMOVED. PLUG AND ABANDON STORM SEWER PIPE AT BOTH ENDS.
  2. ANY EXISTING SANITARY AND WATER SERVICES TO BE ABANDONED AND INSPECTED. PLUG SERVICES AT MAIN. ANY EXISTING PAVEMENT, C&G, SIDEWALK AND OTHER IMPROVEMENTS DAMAGED SHALL BE REPLACED PER VILLAGE STANDARDS.
  3. CONTRACTOR IS TO FIELD VERIFY EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO DEMOLITION. SOME UTILITIES MAY NOT BE SHOWN.
  4. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION.
  5. COORDINATE A RELEASE FROM THE ELECTRIC, GAS AND TELEPHONE SERVICES PRIOR TO DEMOLITION.
  6. NO WATER IS TO BE USED FROM A FIRE HYDRANT FOR DUST CONTROL WITHOUT A WATER METER, A BACKFLOW PREVENTER, AND WATER DEPARTMENT APPROVAL.
  7. ALL ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROTECTED FROM DAMAGE CAUSED BY THE SITE DEMOLITION.
  8. ALL WASTE MATERIALS SHALL BE REMOVED IN A MANNER THAT PREVENTS INJURY OR DAMAGE TO PERSONS, ADJOINING PROPERTIES, AND/OR RIGHT OF-WAYS.
  9. ALL WASTE MATERIALS SHALL BE DISPOSED OF OFFSITE IN AN APPROVED FACILITY.
  10. THE SITE SHALL BE GRADED TO PREVENT THE ACCUMULATION OF WATER OR DAMAGE TO ANY FOUNDATIONS ON THE PREMISES OF ADJOINING PROPERTY.



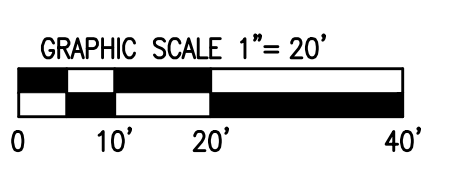
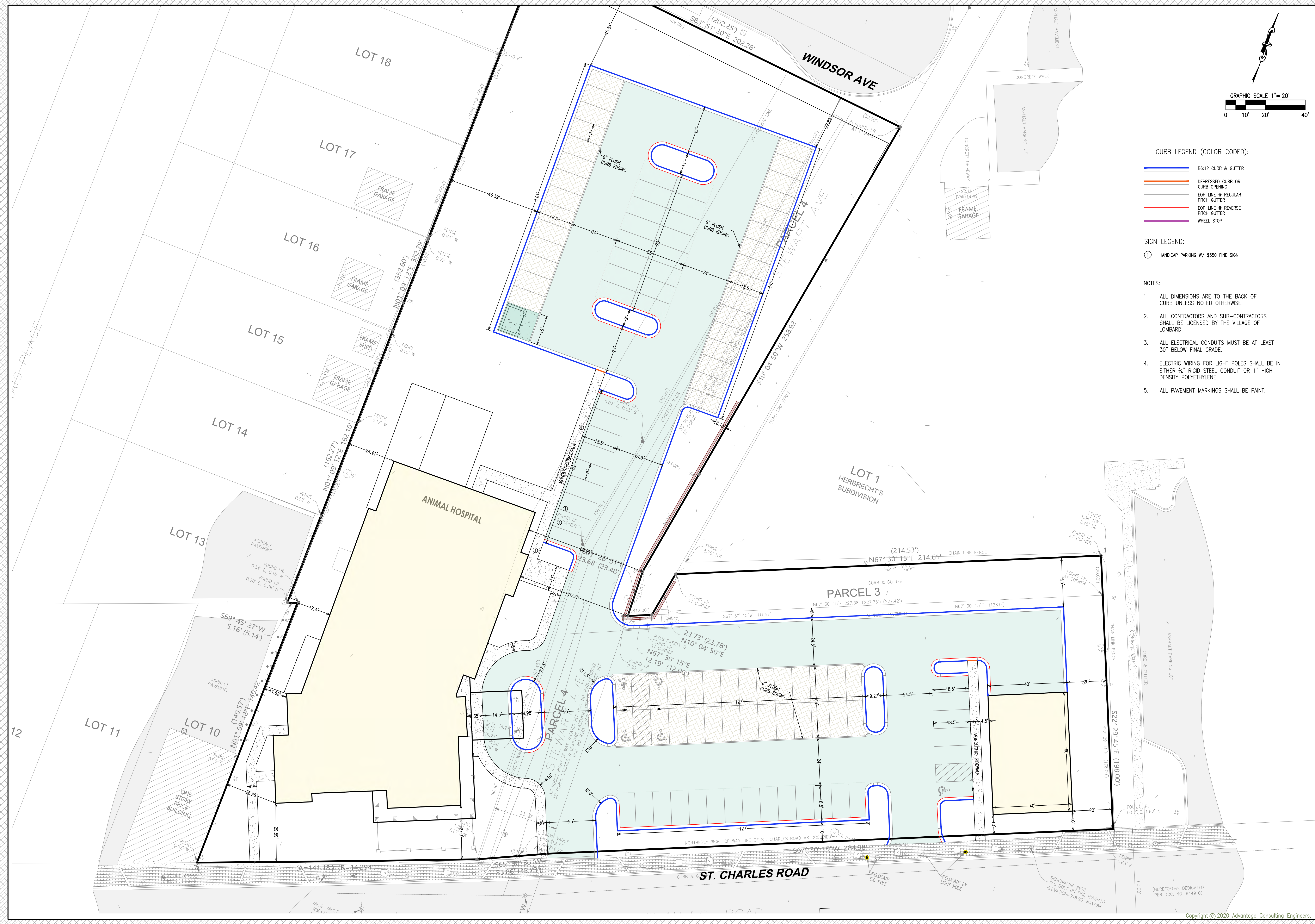
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	11/23/2022	1.	REVISED PER ARCHITECT/ALLIANCE

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**DEMOLITION PLAN**  
LOMBARD VETERINARY HOSPITAL  
244 E ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

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4 OF 18



**CURB LEGEND (COLOR CODED):**

- B6-12 CURB & GUTTER
- DEPRESSED CURB OR CURB OPENING
- EOP LINE @ REGULAR PITCH GUTTER
- EOP LINE @ REVERSE PITCH GUTTER
- WHEEL STOP

**SIGN LEGEND:**

- ① HANDICAP PARKING W/ \$350 FINE SIGN

**NOTES:**

1. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS NOTED OTHERWISE.
2. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL BE LICENSED BY THE VILLAGE OF LOMBARD.
3. ALL ELECTRICAL CONDUITS MUST BE AT LEAST 30" BELOW FINAL GRADE.
4. ELECTRIC WIRING FOR LIGHT POLES SHALL BE IN EITHER 3/4" RIGID STEEL CONDUIT OR 1" HIGH DENSITY POLYETHYLENE.
5. ALL PAVEMENT MARKINGS SHALL BE PAINT.

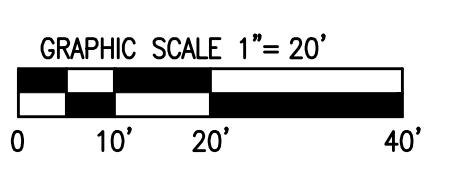
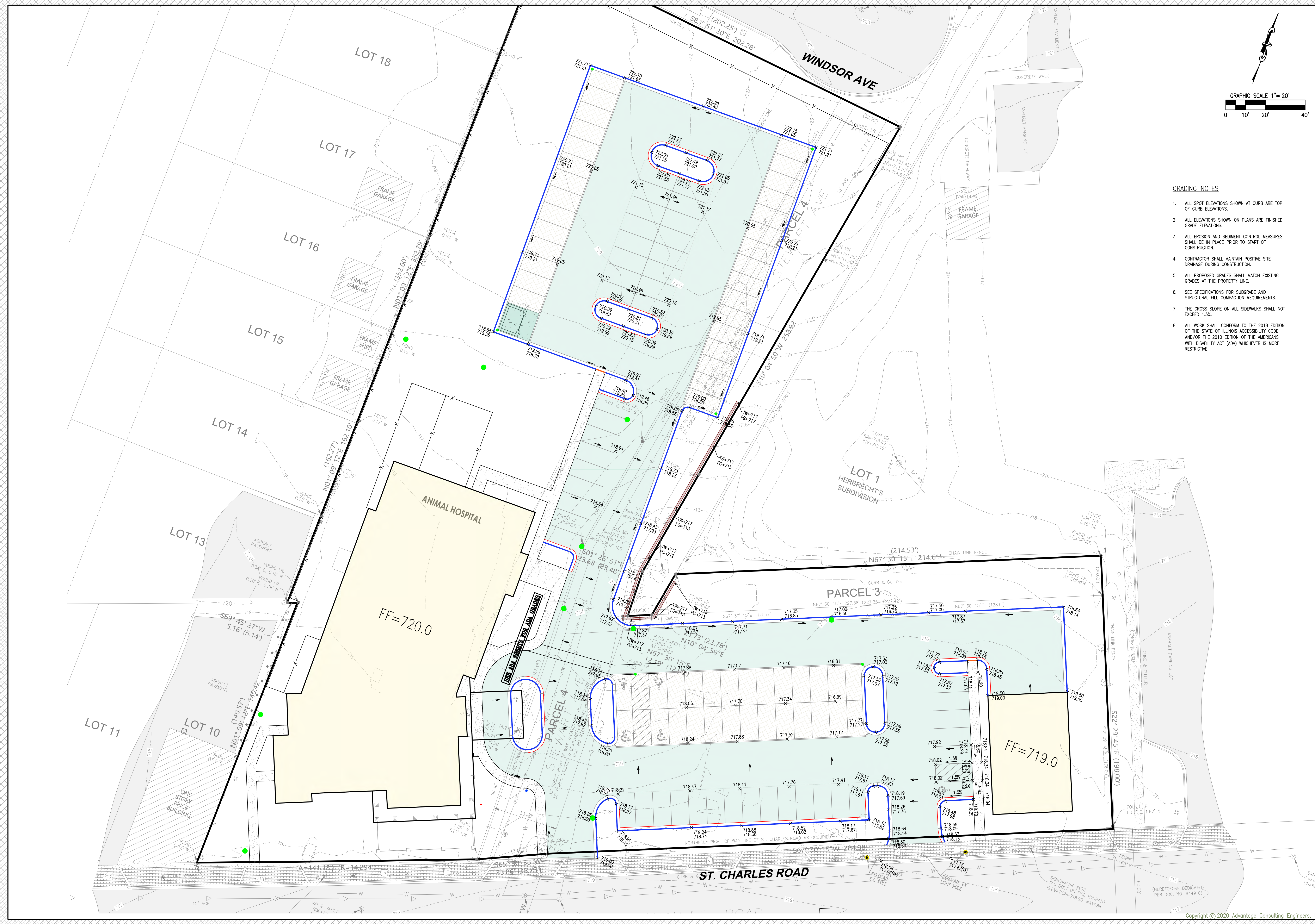
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**GEOMETRIC PLAN**  
LOMBARD VETERINARY HOSPITAL  
244 E ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

**RWE**  
DESIGN BUILD  
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BURR RIDGE, ILLINOIS 60527

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5 OF 18

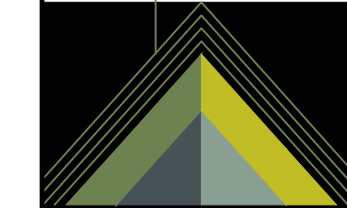


**GRADING NOTES**

1. ALL SPOT ELEVATIONS SHOWN AT CURB ARE TOP OF CURB ELEVATIONS.
2. ALL ELEVATIONS SHOWN ON PLANS ARE FINISHED GRADE ELEVATIONS.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION.
4. CONTRACTOR SHALL MAINTAIN POSITIVE SITE DRAINAGE DURING CONSTRUCTION.
5. ALL PROPOSED GRADES SHALL MATCH EXISTING GRADES AT THE PROPERTY LINE.
6. SEE SPECIFICATIONS FOR SUBGRADE AND STRUCTURAL FILL COMPACTION REQUIREMENTS.
7. THE CROSS SLOPE ON ALL SIDEWALKS SHALL NOT EXCEED 1.5%.
8. ALL WORK SHALL CONFORM TO THE 2018 EDITION OF THE STATE OF ILLINOIS ACCESSIBILITY CODE AND/OR THE 2010 EDITION OF THE AMERICANS WITH DISABILITY ACT (ADA) WHICH EVER IS MORE RESTRICTIVE.

NO.	DATE	REVISIONS
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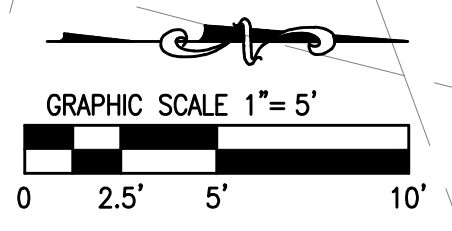
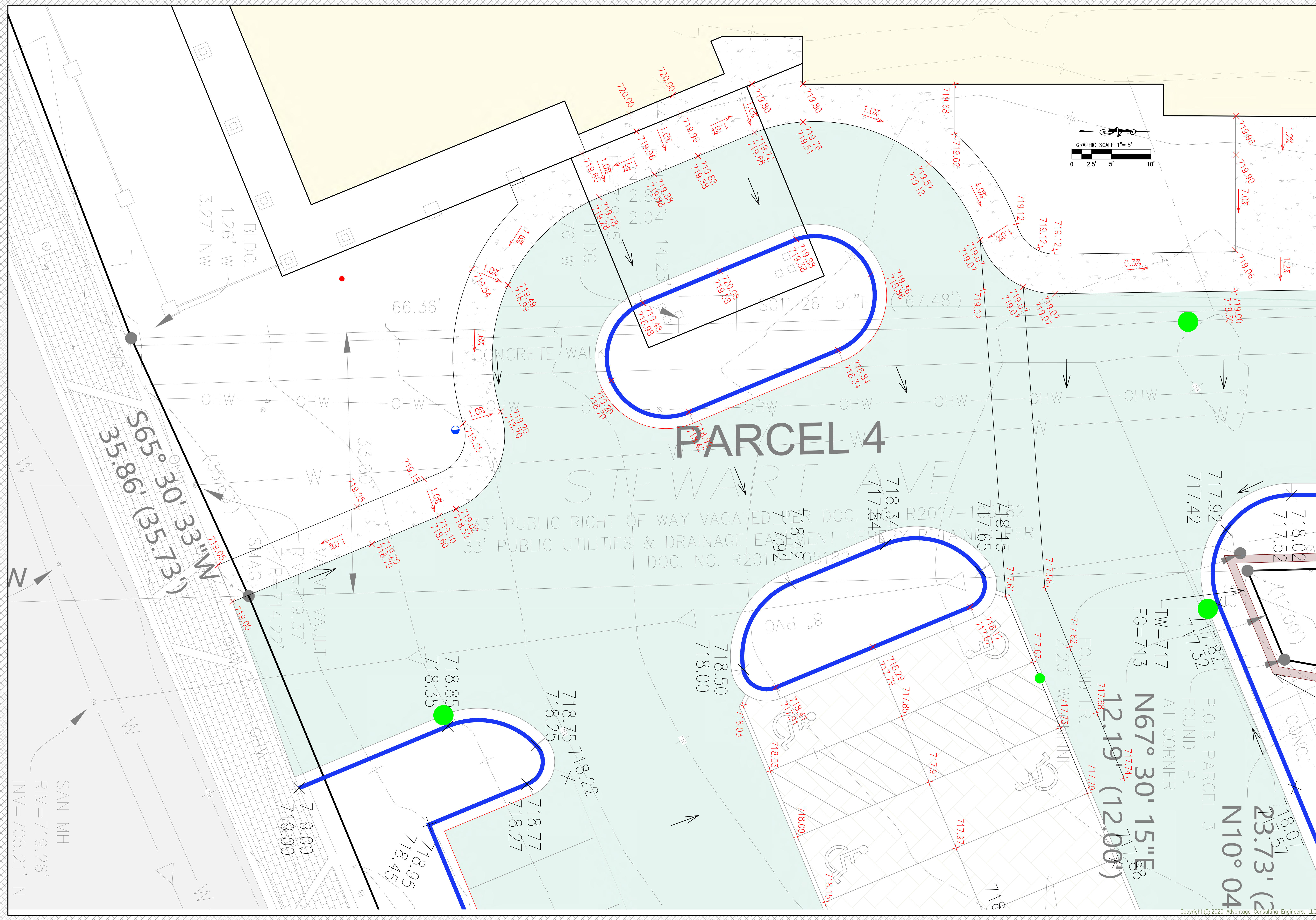
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**GRADING PLAN**  
LOMBARD VETERINARY HOSPITAL  
244 E ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

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SHEET:  
**G1**  
6 OF 18



NO.	DATE	REVISIONS
1	11/23/2022	REVISED PER ARCHITECT/ALLIANCE

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80 MAIN STREET - SUITE 17 - LEMONT, ILLINOIS 60439  
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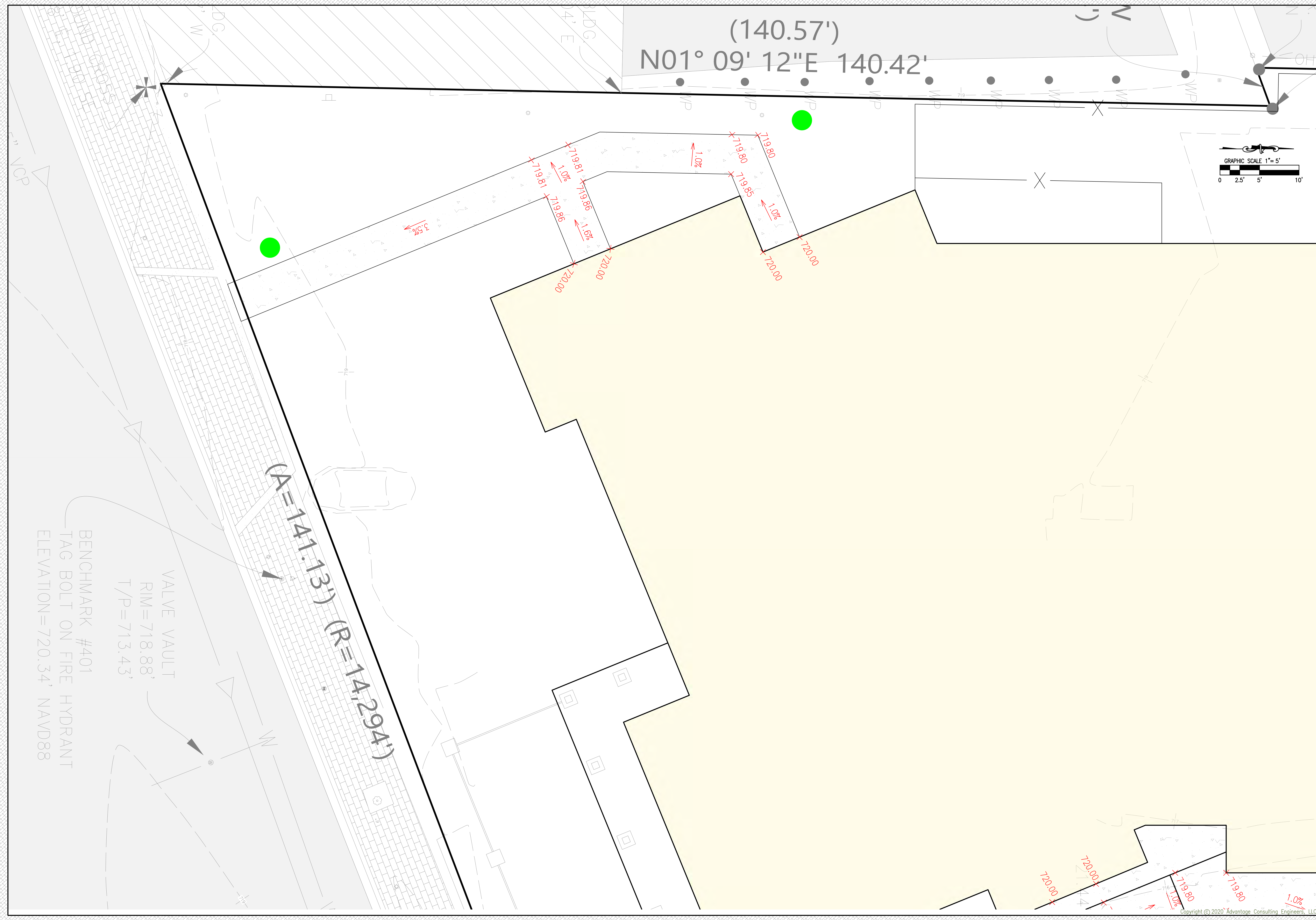


**ADA GRADING PLAN**  
LOMBARD VETERINARY HOSPITAL  
244 E ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

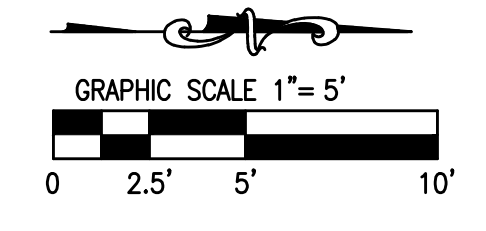
**RWE**  
DINA B. RIGBI  
16W361 S. FRONTAGE ROAD, SUITE 101  
BURR RIDGE, ILLINOIS 60527

AUGUST 05, 2022  
JOB: 22-012  
SHEET:  
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(140.57')  
 N01° 09' 12"E 140.42'



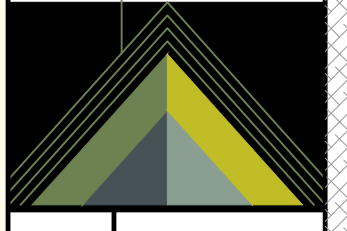
BENCHMARK #401  
 TAG BOLT ON FIRE HYDRANT  
 ELEVATION=720.34' NAVD88

VALVE VAULT  
 RIM=718.88'  
 T/P=713.43'

(A=141.13') (R=14,294')

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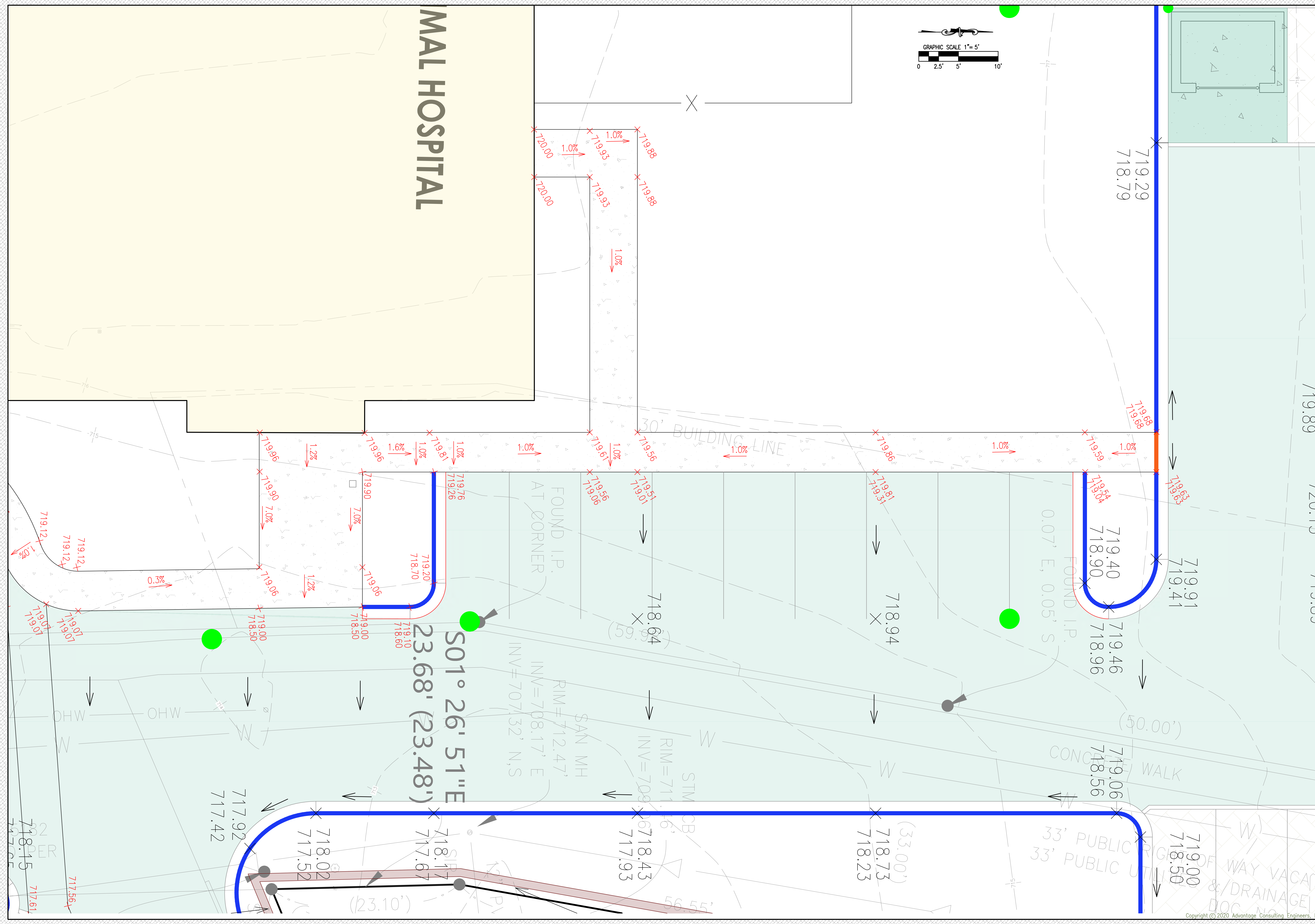
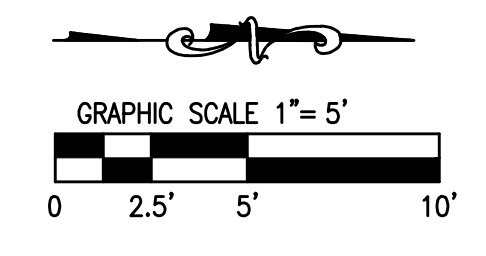
**RWE**  
 DESIGN BUILD  
 16W361 S. FRONTAGE ROAD, SUITE 106  
 BURR RIDGE, ILLINOIS 60527

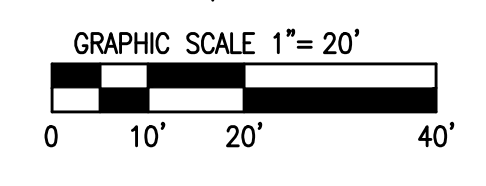
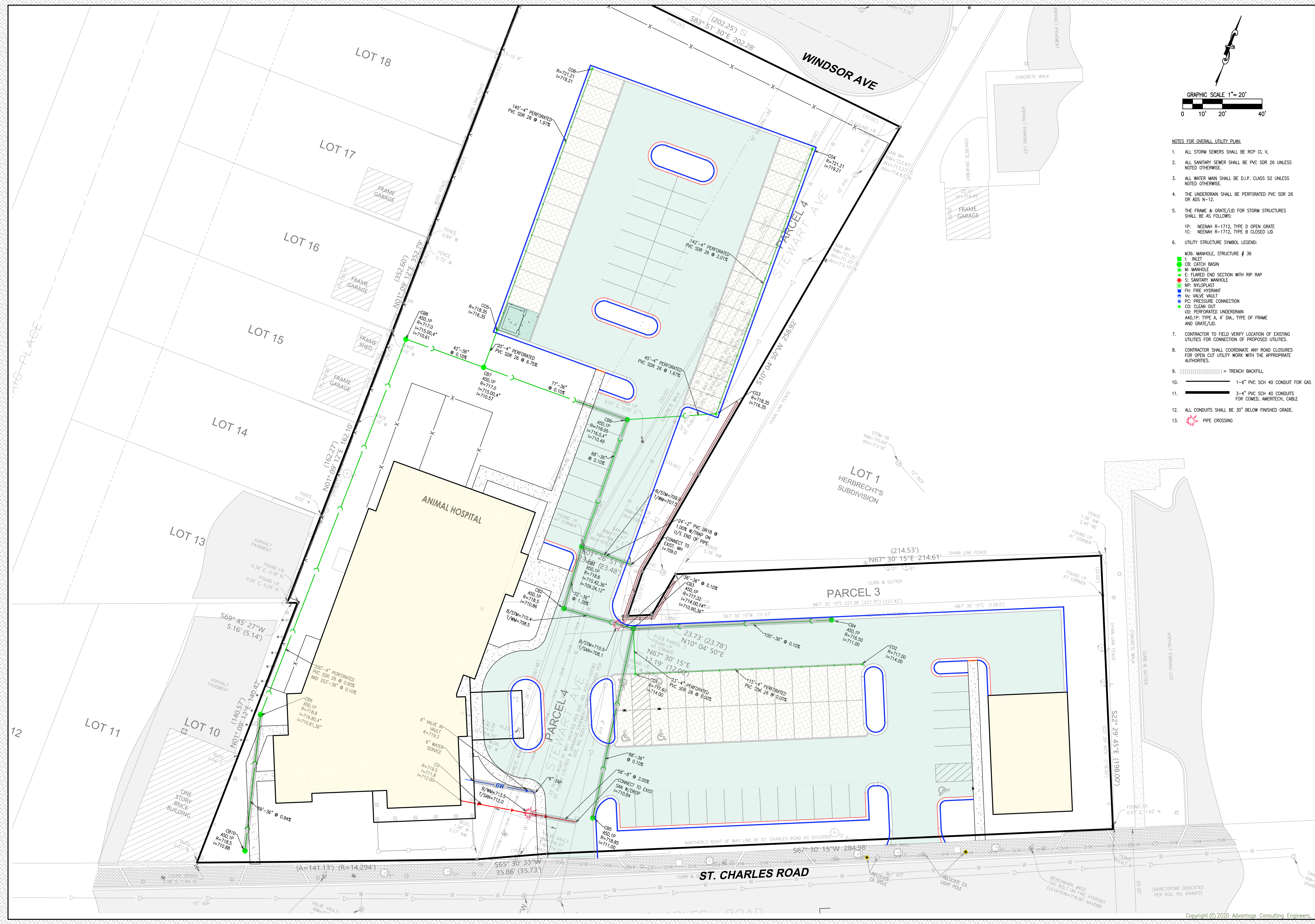
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 9 OF 18



NO.	DATE	REVISIONS
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- NOTES FOR OVERALL UTILITY PLAN:**
- ALL STORM SEWERS SHALL BE RCP CL V.
  - ALL SANITARY SEWER SHALL BE PVC SDR 26 UNLESS NOTED OTHERWISE.
  - ALL WATER MAIN SHALL BE D.I.P. CLASS 52 UNLESS NOTED OTHERWISE.
  - THE UNDERDRAIN SHALL BE PERFORATED PVC SDR 26 OR ADS N-12.
  - THE FRAME & GRATE/LID FOR STORM STRUCTURES SHALL BE AS FOLLOWS:  
 1P: NEENAH R-1712, TYPE D OPEN GRATE  
 1C: NEENAH R-1712, TYPE B CLOSED LID
  - UTILITY STRUCTURE SYMBOL LEGEND:  
 M36: MANHOLE, STRUCTURE # 36  
 I: INLET  
 CB: CATCH BASIN  
 M: MANHOLE  
 E: FLARED END SECTION WITH RIP RAP  
 S: SANITARY MANHOLE  
 NP: NYLOPLAST  
 FH: FIRE HYDRANT  
 VV: VALVE VAULT  
 PC: PRESSURE CONNECTION  
 CO: CLEAN OUT  
 UD: PERFORATED UNDERDRAIN  
 A4D,1P: TYPE A, 4' DIA., TYPE OF FRAME AND GRATE/LID.
  - CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES FOR CONNECTION OF PROPOSED UTILITIES.
  - CONTRACTOR SHALL COORDINATE ANY ROAD CLOSURES FOR OPEN CUT UTILITY WORK WITH THE APPROPRIATE AUTHORITIES.
  - |||||||||||||| = TRENCH BACKFILL
  - 1-6" PVC SCH 40 CONDUIT FOR GAS
  - 3-4" PVC SCH 40 CONDUITS FOR COMED, AMERITECH, CABLE
  - ALL CONDUITS SHALL BE 30" BELOW FINISHED GRADE.
  - PIPE CROSSING

REVISIONS	DATE	DESCRIPTION
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**UTILITY PLAN**

**ADVANTAGE CONSULTING ENGINEERS**  
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 630-500-2467 www.advantagece.com

**LOMBARD VETERINARY HOSPITAL**  
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**RWE DESIGN BUILD**

16W361 S. FRONTAGE ROAD, SUITE 106  
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CONTROL MEASURE GROUP	CONTROL MEASURE	APPL	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMIT	MAINTENANCE FREQUENCY
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	TS		PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.	X		REDO ANY FAILING AREAS.
	PERMANENT SEEDING	PS		PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.		X	REDO ANY FAILING AREAS.
	DORMANT SEEDING	DS		SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED.	X	X	RE-SEED IF NEEDED.
NON VEGETATIVE SOIL COVER	SODDING	SO		QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN LOCATIONS WHERE SEEDING MAY BE DIFFICULT.		X	N/A
	MACHINE TRACKING	CO		PROVIDES SOIL ROUGHING FOR EROSION CONTROL.	X		N/A
	POLYMER	P		ADDS INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. PROVIDES TEMPORARY COVER WHERE VEGETATION CANNOT BE ESTABLISHED.	X		REAPPLY EVERY 1 1/2 MONTHS.
DIVERSIONS	AGGREGATE COVER	AG		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.
	PAVING	FV		PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.		X	N/A
	RIDGE DIVERSION	RD		TYPICALLY USED ABOVE SLOPES TO COLLECT FLOW AND TRANSFER DOWNSLOPE.	X	X	CLEAN SILT OUT WHEN HALF-FULL.
WATERWAYS	CHANNEL DIVERSION	CD		TYPICALLY USED TO DIVERT FLOW.	X	X	REPLACE PROTECTION WHEN NEEDED.
	COMBINATION DIVERSION	DC		TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE.	X	X	REPLACE PROTECTION WHEN NEEDED.
	CURB AND GUTTER	CG		SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION.		X	N/A
ENCLOSED DRAINAGE	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
	VEGETATIVE CHANNEL	VC		PROVIDES ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST.	X	X	REDO ANY FAILING AREAS.
	LINED CHANNEL	LC		USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED.		X	REPLACE PROTECTION WHEN NEEDED.
SPILLWAYS	STORM SEWER	STW		CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY.		X	CLEAN SEDIMENT OUT.
	UNDER DRAIN	UD		USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SOIL STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DRAINER SEDIMENT BASINS.		X	N/A
	STRAIGHT PIPE SPILLWAY	SFS		USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER.	X		CLEAN OUT CONSTRUCTION DEBRIS.
OUTLETS	DROP INLET PIPE SPILLWAY	DRS		SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED.		X	CLEAN OUT CONSTRUCTION DEBRIS.
	WEIR SPILLWAY	W		USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES.	X		CLEAN OUT CONSTRUCTION DEBRIS.
	BOX INLET WEIR SPILLWAY	BWS		SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH.	X		CLEAN OUT CONSTRUCTION DEBRIS.
SEDIMENT BASINS	LINED APRON	LA		PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES.	X		REPAIR DISLOOSED STONES OR EROSION UNDER RIP-RAP AS NEEDED
	SEDIMENT BASIN	SB		USED TO COLLECT SMALLER PARTICLES - DETAIN WATER WITH CONTROLLED RELEASE.	X	X	CLEAN SEDIMENT OUT WHEN HALF-FULL.
	SEDIMENT TRAP	ST		USED TO COLLECT LARGER PARTICLES - DETAIN WATER WITH CONTROLLED RELEASE.	X		CLEAN SEDIMENT OUT WHEN HALF-FULL.
SEDIMENT FILTERS	SILT FENCE	SF		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.
	VEGETATIVE FILTER	VF		USED ALONG DRAINAGE WAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE IN PROPORTION TO DRAINAGE AREA.	X		REDO ANY FAILING AREAS.
	MUD AND DUST CONTROL	SE		PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	X		SCRAPE MUD AND REPLACE STONE AS NEEDED.
EROSION CONTROL	DUST CONTROL	DT		PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	X		RE-APPLY AS NEEDED.
	EROSION CONTROL BLANKET	EB		PROTECTS SOIL, SEED AND HELPS GROW VEGETATION.	X	X	REPLACE AS NEEDED
	TURF REINFORCEMENT MAT	TM		REINFORCES TURF IN CHANNELS AND SHOULDERLINES.	X	X	REPLACE AS NEEDED
SEDIMENT CONTROL	CELLULAR CONFINEMENT	CF		USED TO HOLED TOPSOIL ON STEEP SLOPES.	X	X	REPLACE AS NEEDED
	GABIONS	GA		USED TO PREVENT EROSION IN VERY HIGH FLOW AREAS.	X		REPLACE AS NEEDED
	GEOTEXTILE FABRIC	GF		USED FOR EROSION / SEDIMENT CONTROL/ SEPARATION / STABILIZATION.	X	X	REPLACE AS NEEDED
SEDIMENT CONTROL	GEOBLOCK POROUS PAVEMENT	GP		USED FOR FIRE LANE ACCESS / VEGETATIVE PAVEMENT.	X		REPLACE AS NEEDED
	INLET PROTECTION	IP		USED FOR PROTECTION OF INLETS.	X		REPLACE OR CLEAN WHEN CLOGGED.
	SLOPE INTERRUPT	SI		USED TO BREAK UP THE FLOW ON A SLOPE.	X	X	CLEAN OUT WHEN HALF-FULL OF SILT.
SEDIMENT CONTROL	DITCH CHECK	DC		USED FOR FLOW SEDIMENT CONTROL IN SWALES AND CHANNELS.	X		CLEAN OUT WHEN HALF-FULL OF SILT.
	FLOC LOG	FL		USED TO CLARIFY WATER THAT HAS SEDIMENT IN THE WATERY COLUMN.	X		REPLACE WHEN HALF DISSOLVED.
	SILT CURTAIN	SC		USED FOR SEDIMENT CONTROL IN STREAM / POND.	X		REPLACE WHEN FABRIC IS TORN OR HOLES BEGON TO FORM.
SEDIMENT CONTROL	PUMPING DISCHARGE BAG	PB		USED FOR PUMP DISCHARGE LINES.	X		REPLACE WHEN HALF-FULL. FABRIC IS TORN, OR HOLES BEGON TO FORM.
	CONCRETE WASHOUT	CW		FOR CONCRETE TRUCKS TO WASHOUT.	X		CLEAN OUT WHEN HALF-FULL. CLEAN WASHOUT GRAVEL AREA AS NEEDED.
	STREET SWEEPING	SS		USED TO PREVENT SILT BUILD UP IN STREETS.	X		CLEAN ONCE A WEEK, OR AS NEEDED TO KEEP STREET CLEAN.

**RIP-RAP DIMENSION TABLE**

STRUCTURE NUMBER/POND	INLET PIPE SIZE d (IN)	DISCHARGE Q (CFS)	LENGTH OF APRON Ld (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

**CONSTRUCTION SCHEDULE-2023-24**

DESCRIPTION	MON-1	MON-2	MON-3	MON-4	MON-5	MON-6	MON-7	MON-8	MON-9
EROSION CONTROL									
SITE CLEARING									
MASS GRADING									
UTILITIES									
PAVING									
SITE STABILIZATION									

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

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES AND SOIL EROSION AND SEDIMENT CONTROL ORDINANCE FOR THE COUNTY.

**1. SITE DESCRIPTION.**

1. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY FOLLOWING MASS GRADING WHICH IS THE SUBJECT OF THIS PLAN:  
 THE PROPOSED DEVELOPMENT CONSISTS OF CONSTRUCTION OF LOMBARD ANIMAL HOSPITAL. DEVELOPMENT THE CONSTRUCTION ACTIVITIES FOR SITE IMPROVEMENTS INCLUDE:  
 A. MASS GRADING  
 B. PAVEMENT CONSTRUCTION  
 C. INSTALLATION OF UTILITIES INCLUDING STORM SEWERS  
 D. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, AS A MINIMUM.  
 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:  
 THE SEQUENCE OF THE CONSTRUCTION ACTIVITIES MAY BE AS FOLLOWS:  
 A. INSTALL SILT FILTER FENCE AND STABILIZED CONSTRUCTION ENTRANCE  
 B. MASS GRADING  
 C. UNDERGROUND UTILITIES INSTALLATION  
 D. FINE GRADING IN PAVEMENT AREA  
 E. PAVEMENT CONSTRUCTION  
 3. THE SOIL EROSION AND SEDIMENTATION CONTROL ITEMS WILL BE INSTALLED FIRST AND AS NEEDED DURING THE ABOVE CONSTRUCTION ACTIVITIES.  
 4. THE TOTAL ESTIMATED AREA OF THE SITE IS 2.59 ACRES. THE TOTAL ESTIMATED AREA OF THE SITE TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES IS 2.59 ACRES.  
 5. THE ESTIMATED RUNOFF COEFFICIENTS OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED AND CONTAINED IN THE PROJECT DRAINAGE STUDY, TITLED STORM WATER MANAGEMENT FOR LOMBARD ANIMAL HOSPITAL PREPARED BY ADVANTAGE CONSULTING ENGINEERS WHICH IS HEREBY INCORPORATED BY REFERENCE IN THIS PLAN.  
 THE ESTIMATED PROPOSED OVERALL SITE RUNOFF COEFFICIENT IS 0.8 EXISTING DATA DESCRIBING SOILS IS INCLUDED IN SOILS REPORT \_\_\_\_\_ OR NOT AVAILABLE.

NAME OF RECEIVING WATER(S) EXISTING STORM SEWER NAME OF ULTIMATE RECEIVING WATER(S) SALT CREEK WETLAND ACREAGE NAME \_\_\_\_\_

**2. CONTROLS.**

1. POTENTIAL SOURCES OF POLLUTION ASSOCIATED WITH CONSTRUCTION ACTIVITY MAY INCLUDE:  
 A. SEDIMENT FROM DISTURBED SOILS  
 B. PORTABLE SANITARY STATIONS  
 C. FUEL TANKS  
 D. STAGING AREAS  
 E. WASTE CONTAINERS  
 F. CHEMICAL STORAGE AREAS  
 G. OIL OR OTHER PETROLEUM PRODUCTS  
 H. ADHESIVES  
 I. TAR  
 J. SOLVENTS  
 K. DETERGENTS  
 L. FERTILIZERS  
 M. RAW MATERIALS (E.G., BAGGED PORTLAND CEMENT)  
 N. CONSTRUCTION DEBRIS  
 O. LANDSCAPE WASTE  
 P. CONCRETE AND CONCRETE TRUCKS  
 Q. LITTER  
 2. THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN 1 ABOVE. FOR EACH MEASURE DISCUSSED, THE CONTRACTORS WILL BE 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.

1. EROSION AND SEDIMENT CONTROLS.  
 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. 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 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.

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 BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.

THE FOLLOWING INTERIM AND PERMANENT STABILIZATION PRACTICES, AS A MINIMUM, WILL BE IMPLEMENTED TO STABILIZE THE DISTURBED AREA OF THE SITE:

- A. PERMANENT SEEDING
- B. SILT FILTER FENCE
- C. VEGETATIVE FILTER
- D. STABILIZED CONSTRUCTION ENTRANCE
- 2. STRUCTURAL PRACTICES. PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.
- A. DETENTION POND
- B. STORM SEWER SYSTEM
- C. RIP-RAP FOR OUTLET PROTECTION
- D. INLET PROTECTION
- 3. DUST CONTROL: DUST CONTROL SHALL BE PROVIDED PER STANDARD 925 OF ILLINOIS URBAN MANUAL. THE FOLLOWING METHODS FOR THE DUST CONTROL CAN BE USED.
- A. IRRIGATION
- B. SPRAY ON ADHESIVE
- C. VEGETATIVE COVER
- D. MULCHING
- 4. STORM WATER MANAGEMENT.

PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN 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 EPA'S STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL, AND OTHER ORDINANCES LISTED IN THE SPECIFICATIONS.

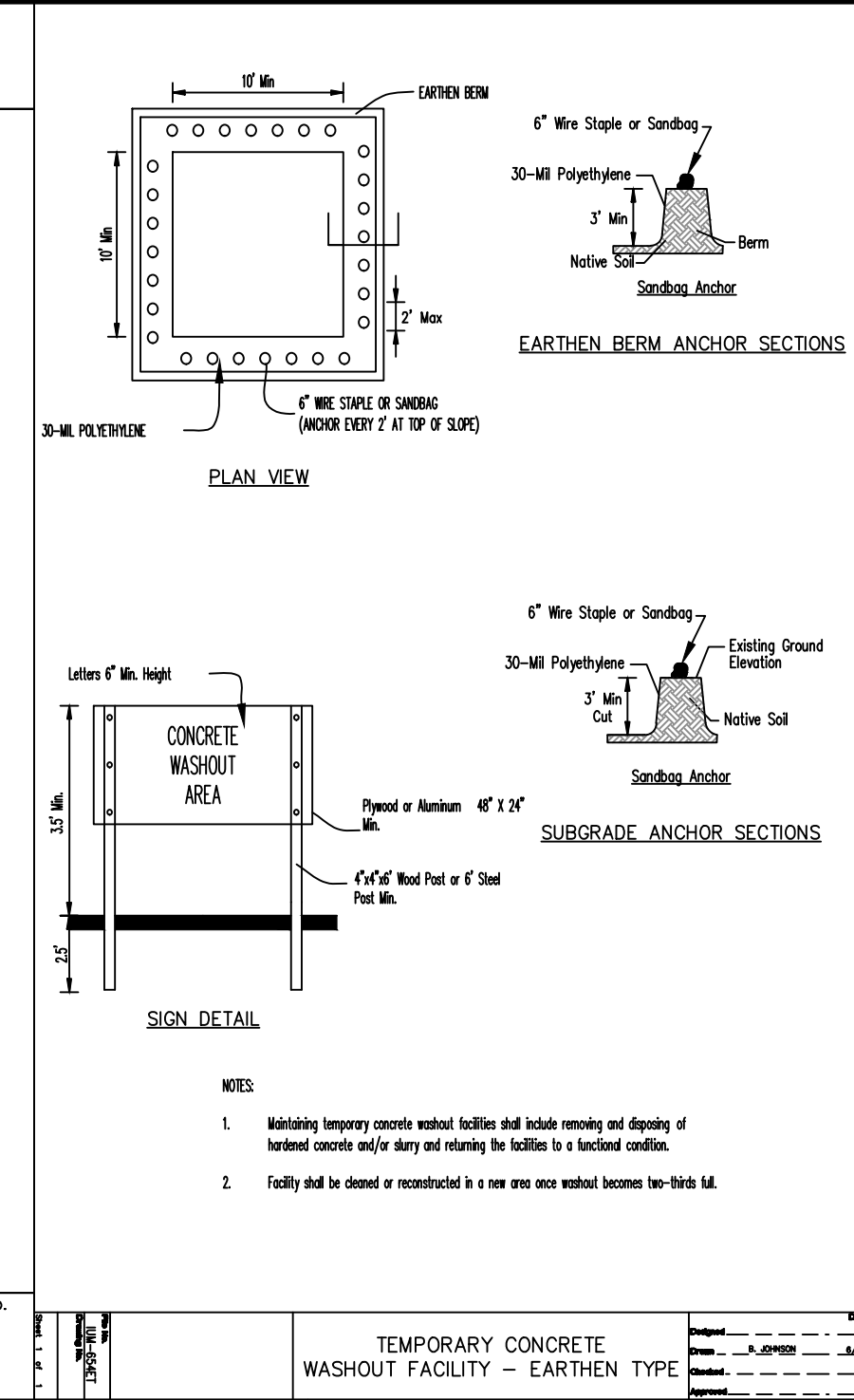
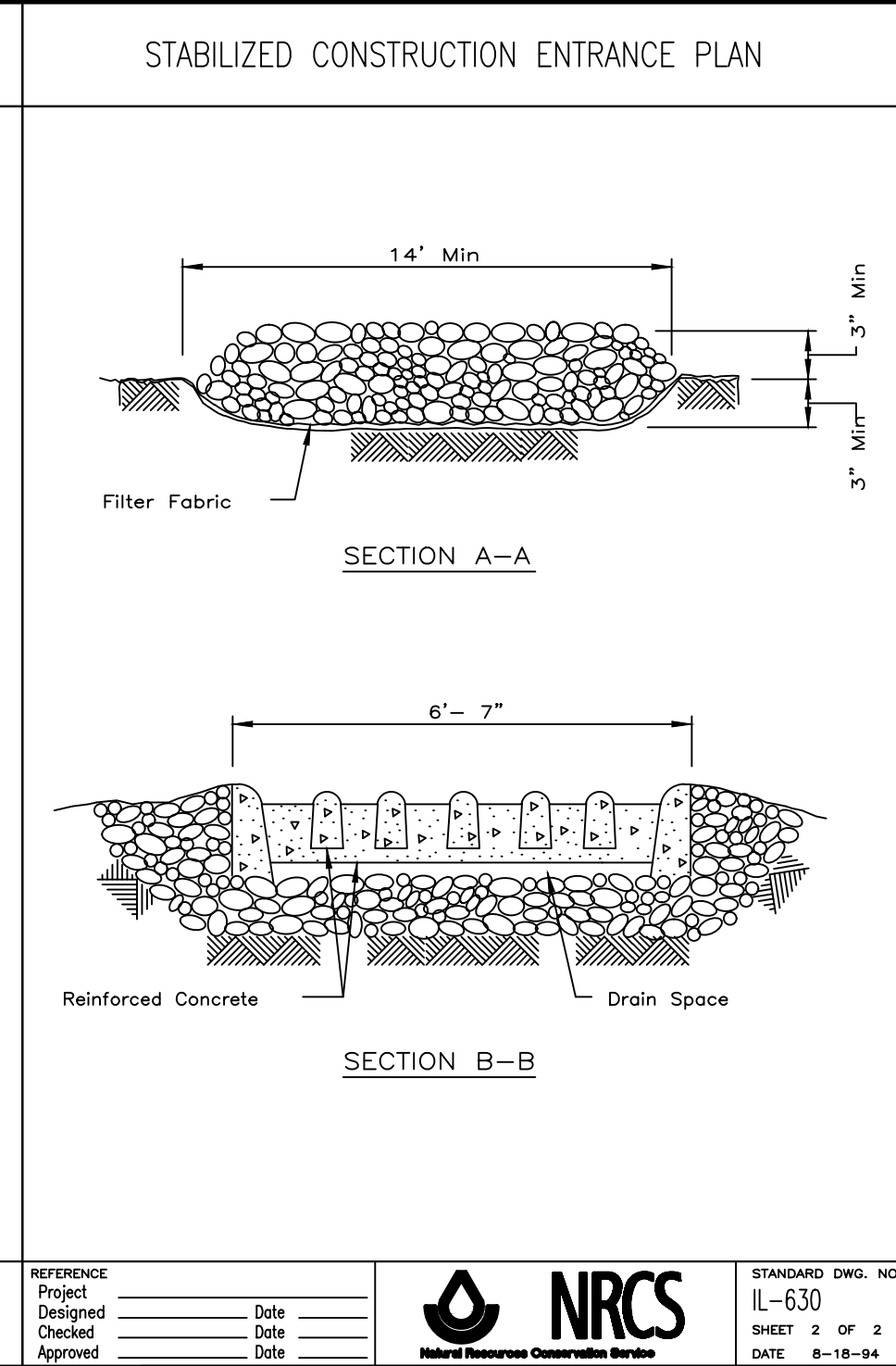
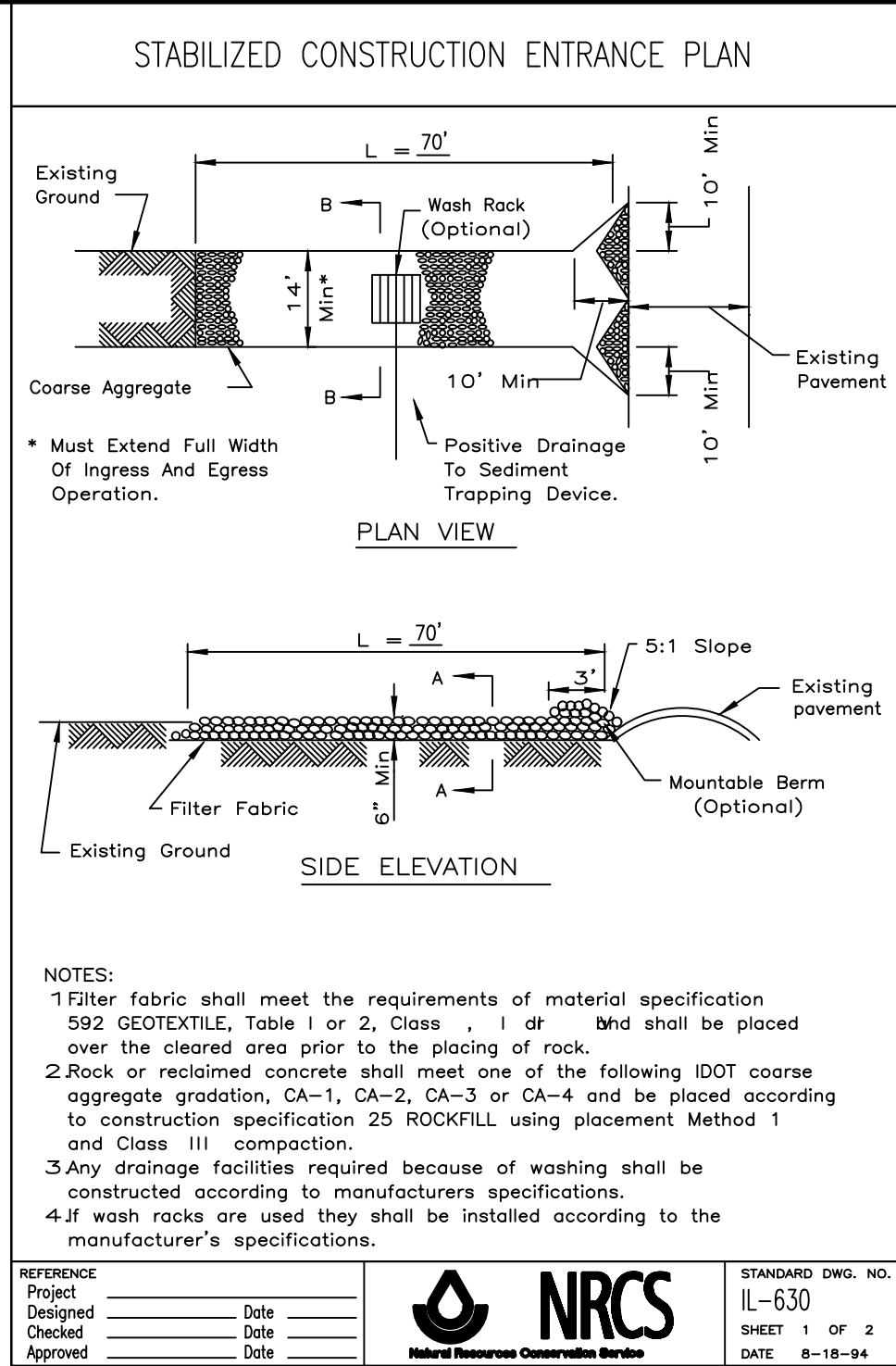
- THE STORM WATER POLLUTANT CONTROL MEASURES SHALL INCLUDE:  
 A. BARRIER FILTERS  
 B. STORM SEWERS  
 C. RETENTION/DETENTION PONDS  
 D. PERMANENT SEEDING  
 E. OUTLET PROTECTION
- 5. VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY 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:  
 A. 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 NO 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.

- 7. WASTE MANAGEMENT  
 SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIALS, MACHINERY, TOOLS AND OTHER ITEMS WILL BE COLLECTED AND DISPOSED OF OFF SITE BY THE CONTRACTORS. THE CONTRACTORS 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 THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. ALL WASTE MATERIALS SHOULD BE COLLECTED AND STORED IN APPROVED RECEPTACLES. NO WASTES SHOULD BE PLACED IN ANY LOCATION OTHER THAN IN THE APPROVED CONTAINERS APPROPRIATE TO THE WASTES BEING DISCARDED.  
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 9. CONCRETE CUTTING  
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 THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT: 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 BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. OPERATIONS SHOULD BE OBSERVED AS NECESSARY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE. 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.

12. MANAGEMENT OF PORTABLE SANITARY STATIONS  
 TO THE EXTENT PRACTICABLE, PORTABLE SANITARY STATIONS SHOULD BE LOCATED IN AN AREA THAT DOES NOT DRAIN TO ANY PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR STORM WATER STRUCTURES AND SHALL BE ANCHORED TO THE GROUND TO PREVENT TIPPING OVER. PORTABLE SANITARY STATIONS LOCATED ON IMPROVED SURFACES SHOULD BE PLACED ON TOP OF A SECONDARY CONTAINMENT DEVICE, OR BE SURROUNDED BY A CONTROL DEVICE (E.G., GRAVEL-BAG BERM). THE CONTRACTOR SHOULD PREVENT/AVOID UNSANITARY CONDITIONS. SANITARY WASTE SHOULD BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE AND/OR LOCAL REGULATIONS.  
 13. SPILL PREVENTION AND CLEAN-UP PROCEDURES  
 MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP SHOULD BE AVAILABLE AND SITE PERSONNEL SHOULD BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN-UP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN-UP SHOULD BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHOULD INCLUDE, BUT ARE NOT LIMITED TO, BROOMS, STAIN PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC AND/OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.  
 14. DE-WATERING OPERATIONS  
 DURING DE-WATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). INLET HOSES SHOULD BE PLACED IN A STABILIZED SUMP PIT OR FLOATED AT THE SURFACE OF THE WATER IN ORDER TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. PUMPING OPERATIONS MAY BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (E.G., STONES), SEDIMENT FILTER BAG, OR BOTH. ACCURATE EROSION CONTROLS SHOULD BE USED DURING DE-WATERING OPERATIONS AS NECESSARY. STABILIZED CONVEYANCE CHANNELS SHOULD BE INSTALLED TO DIRECT WATER TO THE DESIRED LOCATION AS APPLICABLE. ADDITIONAL CONTROL MEASURES MAY BE INSTALLED AT THE OUTLET AREA AT THE DISCRETION OF THE PRIMARY CONTACT OR ENGINEER.  
 15. OFF-SITE VEHICLE TRACKING  
 THE SITE SHOULD HAVE ONE OR MORE STABILIZED CONSTRUCTION ENTRANCES IN CONFORMANCE WITH THE PLAN DETAILS. STABILIZED CONSTRUCTION ENTRANCE(S) SHOULD BE INSTALLED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. STREETS SHOULD BE SWEEPED AS NEEDED TO REDUCE EXCESS SEDIMENT, DIRT, OR STONE TRACKED FROM THE SITE. MAINTENANCE MAY INCLUDE: TOP DRESSING THE STABILIZED ENTRANCE WITH ADDITIONAL STONE, AND REMOVING TOP LAYERS OF STONE AND SEDIMENT, AS NEEDED. VEHICLES HAULING ERODIBLE MATERIAL TO AND FROM 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 DRAINAGE, OR INTERFERE WITH WORK ON SITE. TOPSOIL STOCKPILES SHALL NOT BE LOCATED IN THE 100-YEAR FLOODPLAIN OR DESIGNATED BUFFER PROTECTING WATERS OF THE STATE. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHOULD BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. PERMETER CONTROLS, SUCH AS SILT FENCE, SHOULD BE PLACED AROUND THE STOCKPILE IMMEDIATELY. STABILIZATION OF THE STOCKPILE SHOULD BE COMPLETED IF THE STOCKPILE IS TO REMAIN UNDISTURBED FOR LONGER THAN FOURTEEN (14) DAYS.

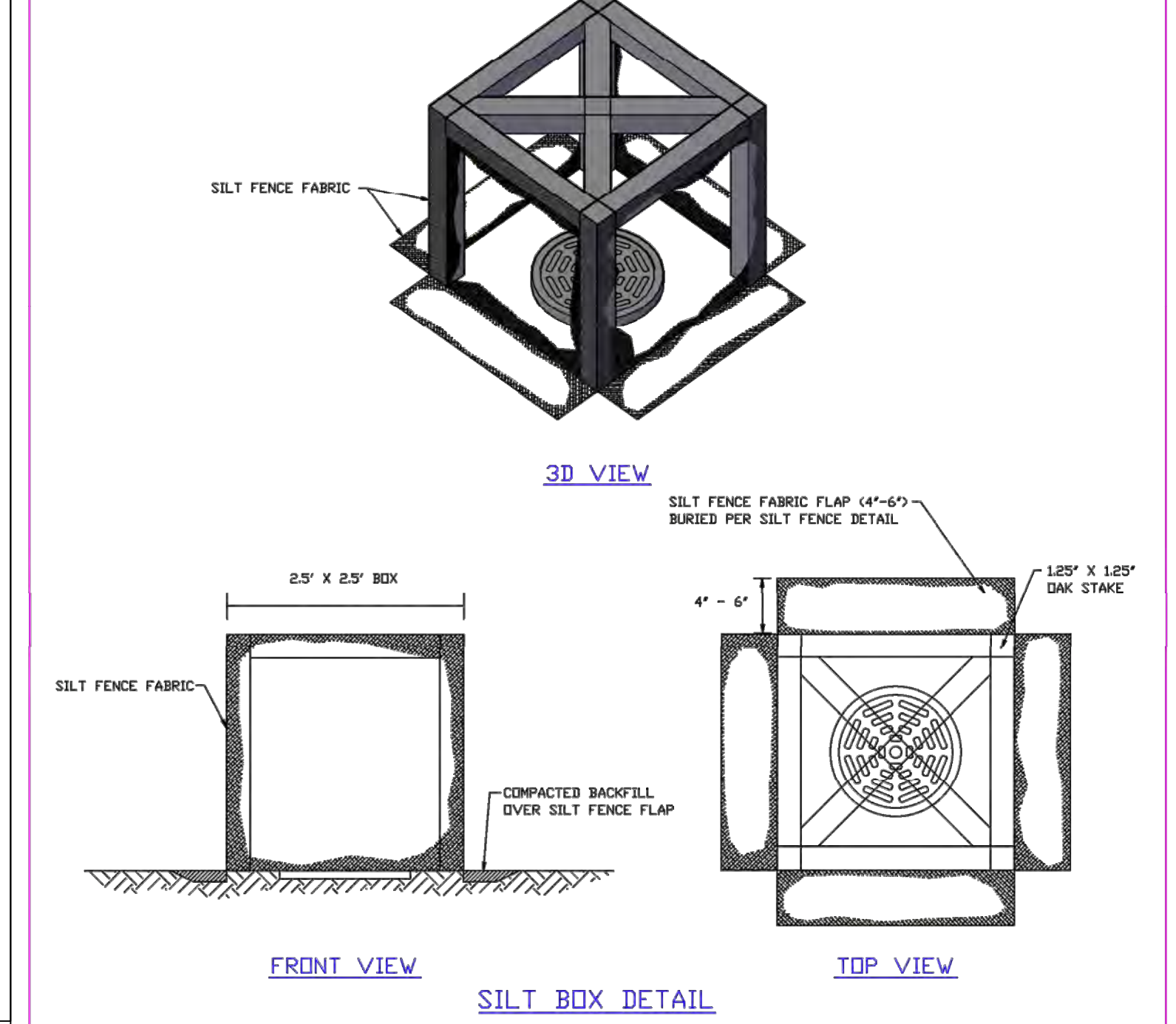
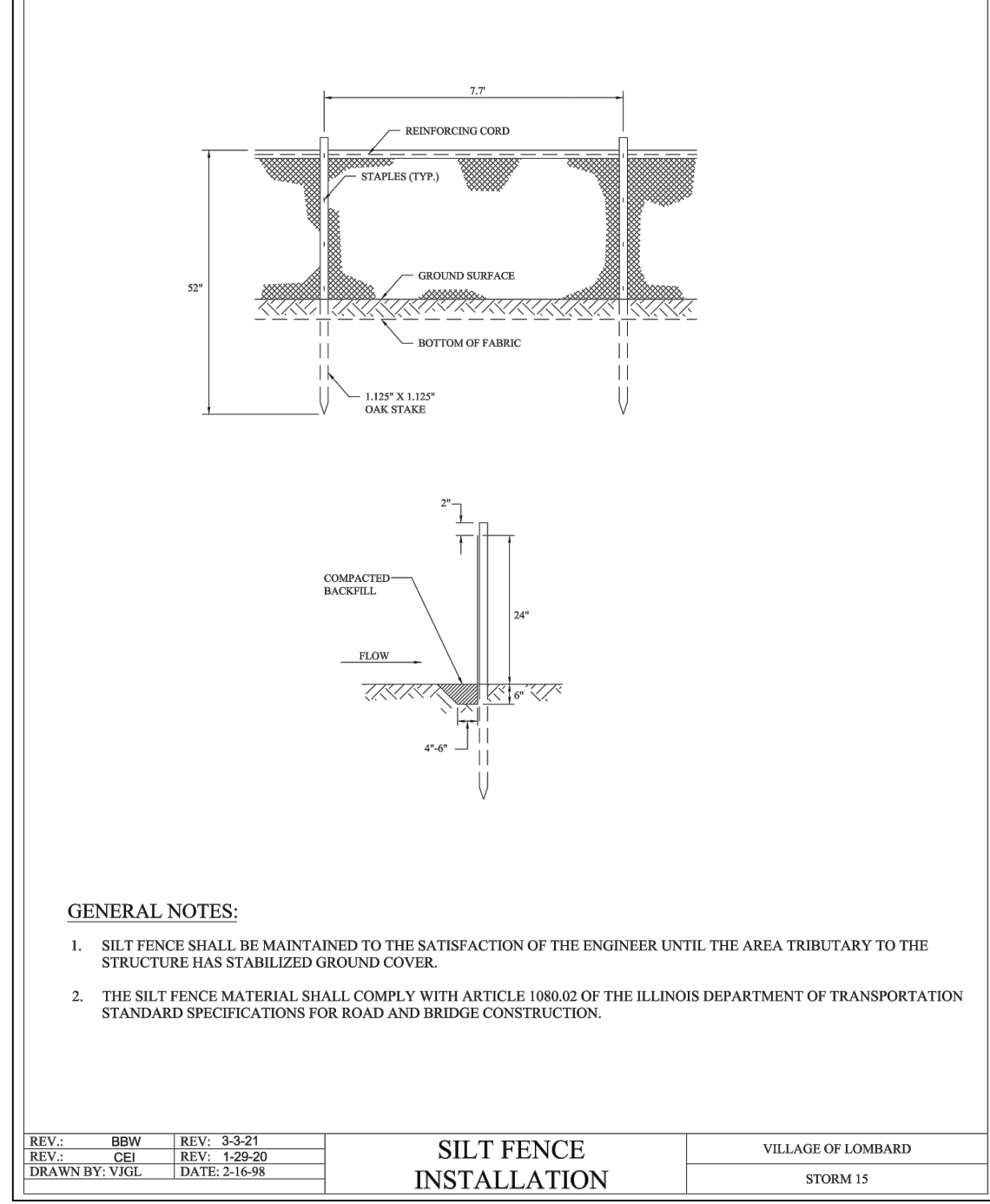
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 THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:



REFERENCE	Project	Date		STANDARD DWG. NO.	Project	Date	
Designed	IL-630	11/23/2022		IL-630	Designed	11/23/2022	
Checked	SHEET 1 OF 2			SHEET 2 OF 2	Checked		
Approved	DATE 8-18-94			DATE 8-18-94	Approved		

REFERENCE	Project	Date		STANDARD DWG. NO.	Project	Date	
Designed	IL-630	11/23/2022		IL-630	Designed	11/23/2022	
Checked	SHEET 1 OF 2			SHEET 2 OF 2	Checked		
Approved	DATE 8-18-94			DATE 8-18-94	Approved		

REFERENCE	Project	Date		STANDARD DWG. NO.	Project	Date	
Designed	IL-610	11/23/2022		IL-610	Designed	11/23/2022	
Checked	SHEET 1 OF 1			SHEET 1 OF 1	Checked		
Approved	DATE 9-18-93			DATE 9-18-93	Approved		



REV.	JB	DATE: 4-23-2018		VILLAGE OF LOMBARD
REV.	JB	DATE: 2-12-2015		STORM 15
DRAWN BY:	JNR	DATE: 12-21-2012		

REV.	JB	DATE: 4-23-2018		VILLAGE OF LOMBARD
REV.	JB	DATE: 2-12-2015		STORM 14
DRAWN BY:	JNR	DATE: 12-21-2012		

**ADVANTAGE CONSULTING ENGINEERS**  
80 MAIN STREET - SUITE 17 - LEMONT, ILLINOIS 60439  
630-520-2467  
WWW.ACEILLUS.COM

**STORM WATER POLLUTION PREVENTION PLAN**  
**LOMBARD VETERINARY HOSPITAL**  
244 E ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

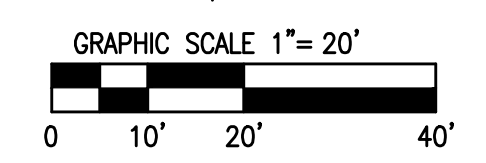
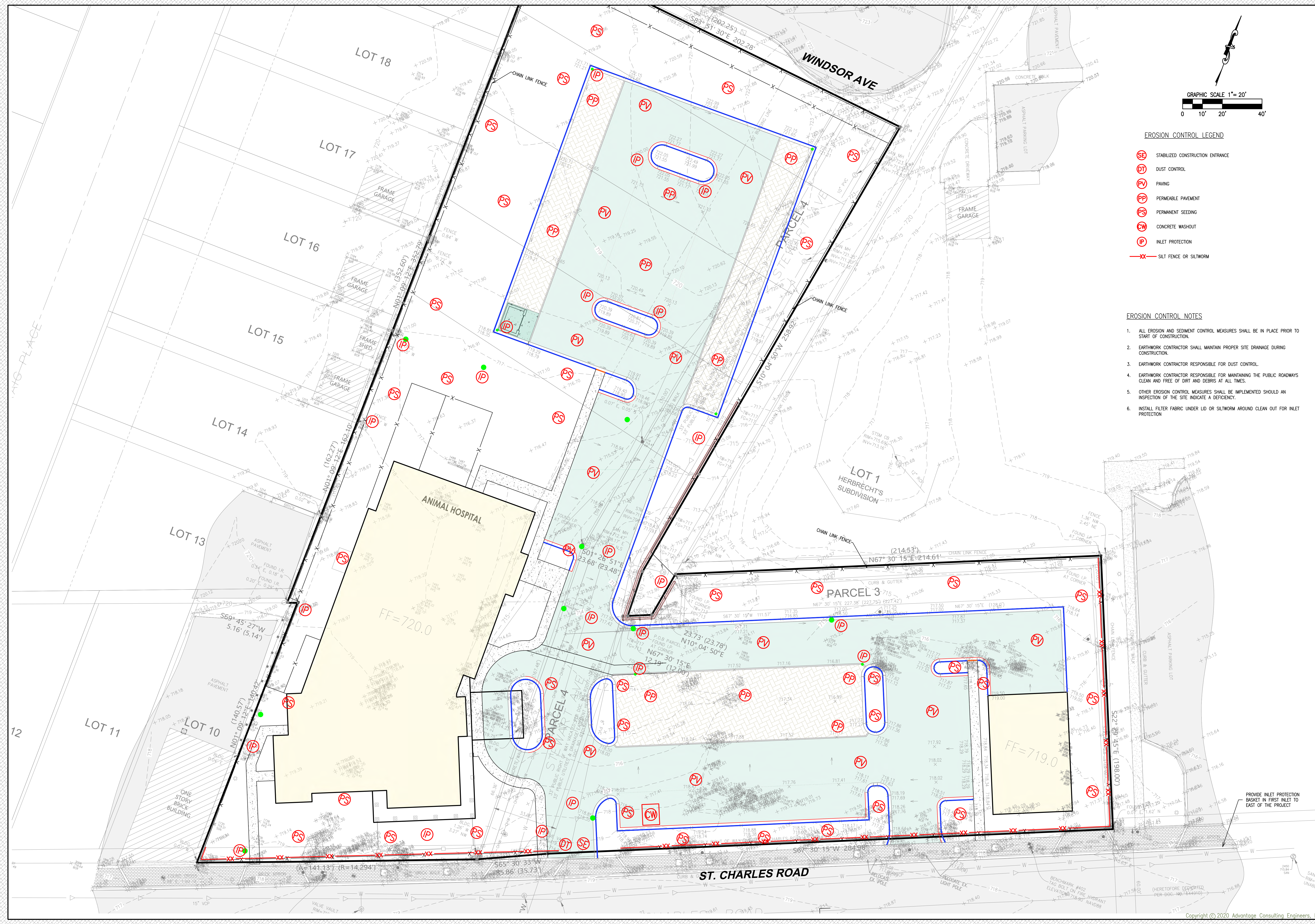
**RWE DESIGN BUILD**  
16W361 S. FRONTAGE ROAD, SUITE 106  
BURR RIDGE, ILLINOIS 60527

REMARKS  
REVISED PER ARCHITECT/ALLIANCE

DATE  
11/23/2022

NO.  
1.

AUGUST 05, 2022  
JOB: 22-012  
SHEET:  
**SE2**  
12 OF 18



**EROSION CONTROL LEGEND**

- SE STABILIZED CONSTRUCTION ENTRANCE
- DT DUST CONTROL
- PV PAVING
- PP PERMEABLE PAVEMENT
- PS PERMANENT SEEDING
- CW CONCRETE WASHOUT
- IP INLET PROTECTION
- XX SILT FENCE OR SILTWORM

**EROSION CONTROL NOTES**

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO START OF CONSTRUCTION.
2. EARTHWORK CONTRACTOR SHALL MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION.
3. EARTHWORK CONTRACTOR RESPONSIBLE FOR DUST CONTROL.
4. EARTHWORK CONTRACTOR RESPONSIBLE FOR MAINTAINING THE PUBLIC ROADWAYS CLEAN AND FREE OF DIRT AND DEBRIS AT ALL TIMES.
5. OTHER EROSION CONTROL MEASURES SHALL BE IMPLEMENTED SHOULD AN INSPECTION OF THE SITE INDICATE A DEFICIENCY.
6. INSTALL FILTER FABRIC UNDER LID OR SILTWORM AROUND CLEAN OUT FOR INLET PROTECTION

PROVIDE INLET PROTECTION BASKET IN FIRST INLET TO EAST OF THE PROJECT

<b>REVISIONS</b>				
DATE	17/23/2022	REVISION	PER ARCHITECT/ALLIANCE	
NO.	1.			

**ADVANTAGE**  
CONSULTING ENGINEERS

80 MAIN STREET - SUITE 17 - LEMONT, ILLINOIS 60439  
630-520-2467  
WWW.ADVANTAGE-ILL.COM

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**SOIL EROSION AND SEDIMENT CONTROL PLAN**

**LOMBARD VETERINARY HOSPITAL**  
244 E ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

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**RWE**  
DESIGN BUILD

16W361 S. FRONTAGE ROAD, SUITE 106  
BURR RIDGE, ILLINOIS 60527

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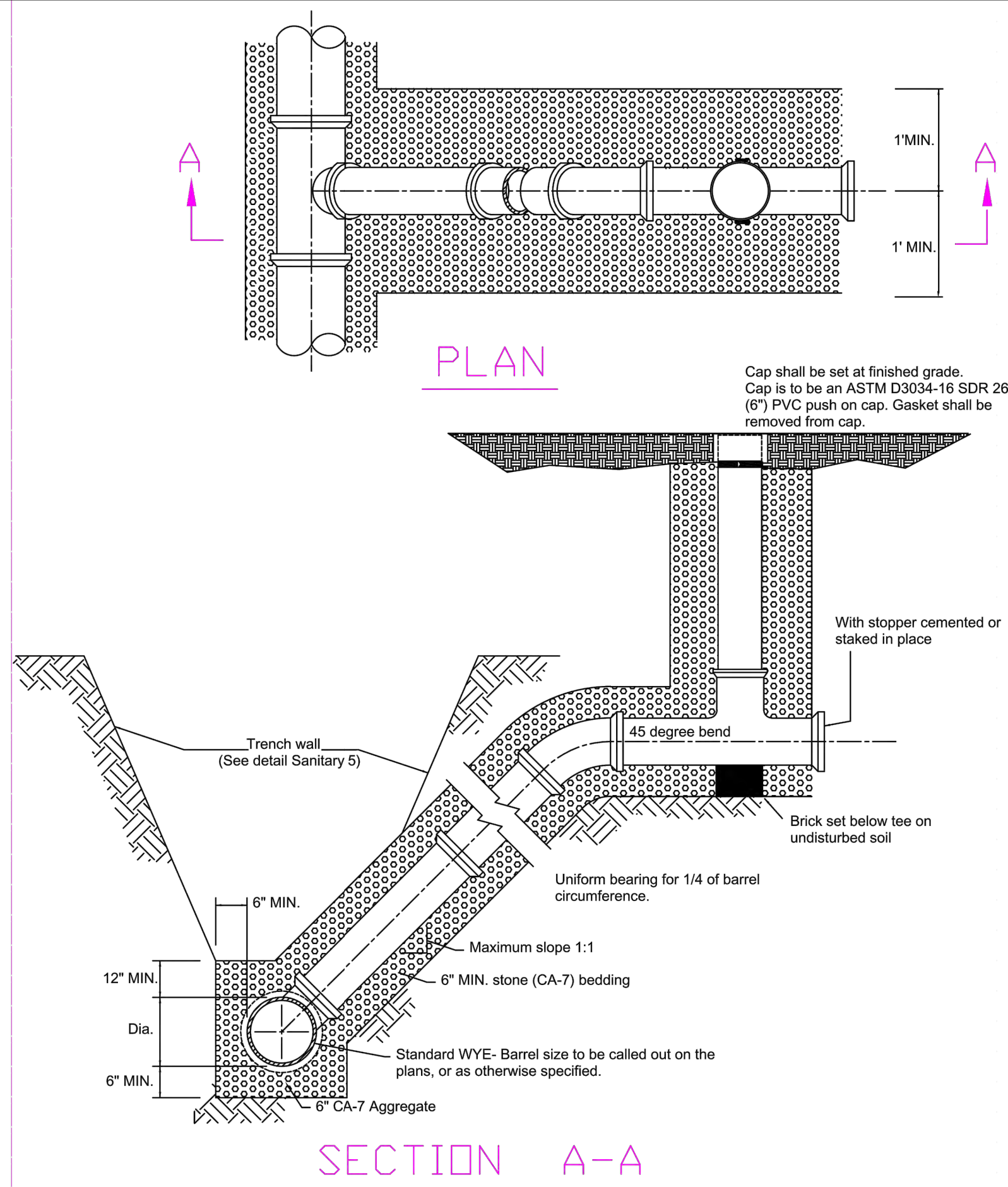
AUGUST 05, 2022	JOB: 22-012
SHEET: SE3	13 OF 18

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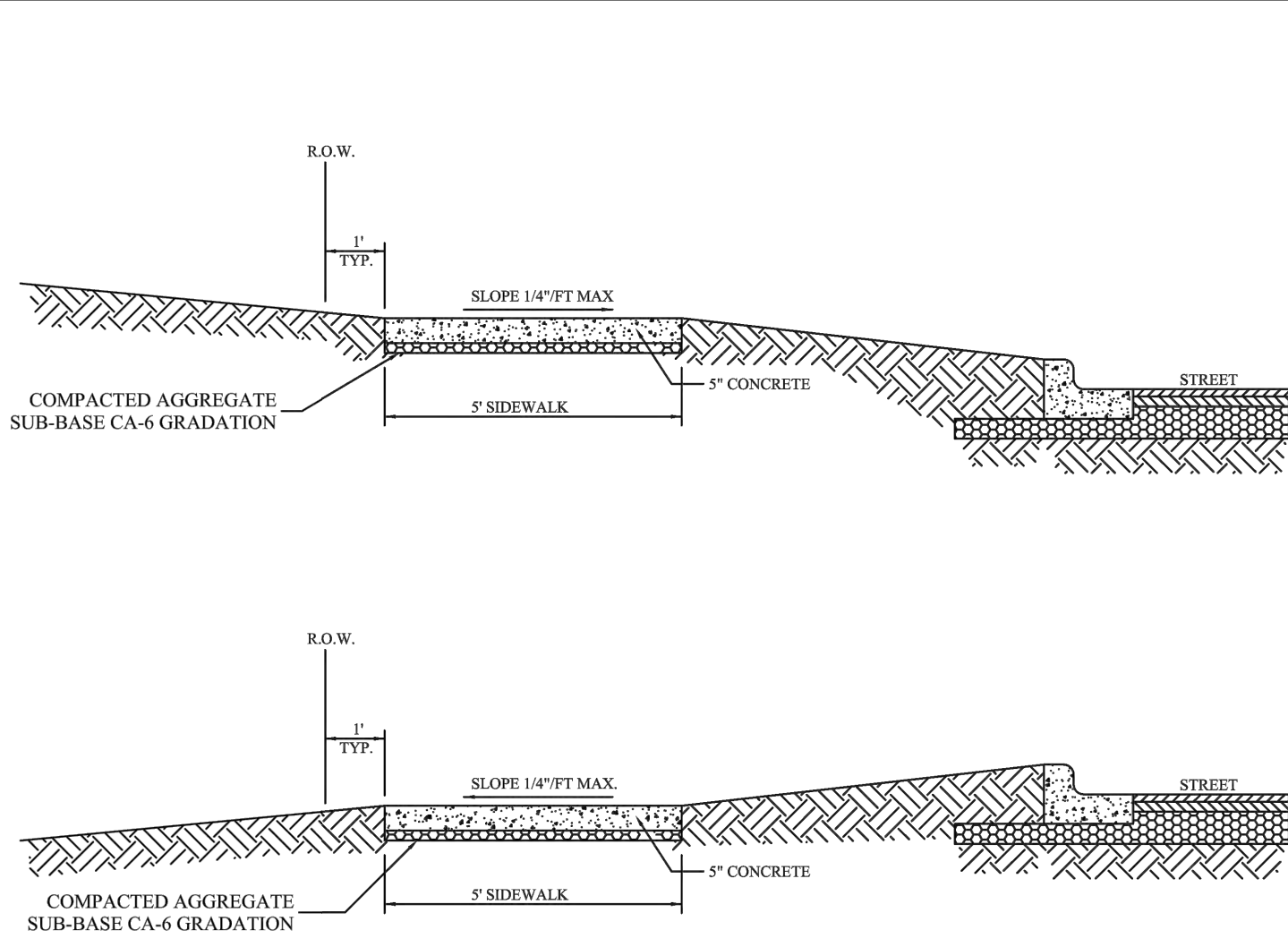
**GENERAL NOTES:**

- The open ends shall be protected from debris entering the lateral.
- Maximum slope shall be less than 1 to 1 when it is necessary to secure bedding in undisturbed earth.
- When the service connection requires coring an existing main, a sewer saddle from Cascade Water Works (CSWRT-0863-06RC) shall be used. Any substitution requires approval from the Village Engineer.
- Service tee and clean out riser shall be PVC (SDR 26/ ASTM D2241-20). For clean outs located within landscaped 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.
- Clean outs shall not be located in driveway aprons or sidewalk unless approved by the Village Engineer. If allowed 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 fitting. Geometric standards cannot be varied.



REV. BBW	REV. 2-12-21	<b>SANITARY RISER FOR SERVICE LATERAL</b>	VILLAGE OF LOMBARD
REV. CEI	REV. 1-14-20		SANITARY 4A
DRAWN BY: V.JGL	DATE: 2-16-98		

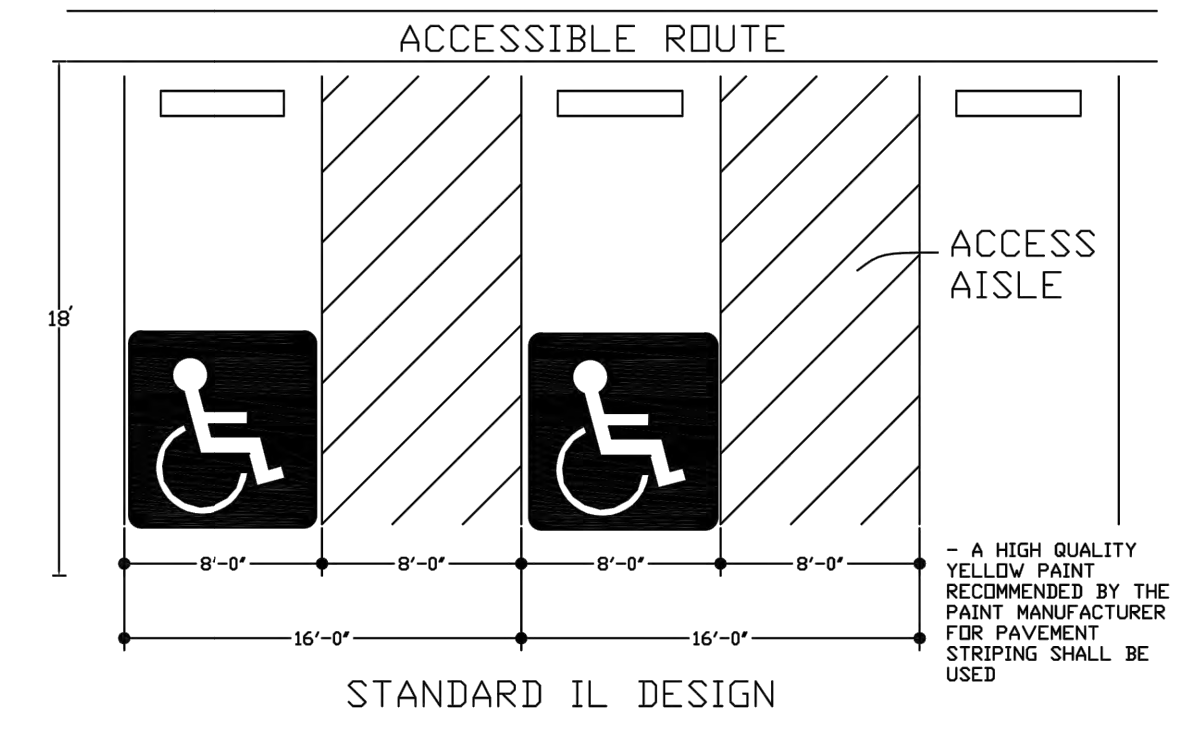
REV. BBW	REV. 2-5-21	<b>RISER W/CLEANOUT SERVICE LATERAL</b>	VILLAGE OF LOMBARD
REV. CEI	REV. 2-12-15		SANITARY 4
DRAWN BY: V.JGL	DATE: 2-16-98		



**GENERAL NOTES:**

- Concrete shall be Class SI.
- Minimum sidewalk thickness shall be five (5) inches.
- Sidewalk thickness across driveways shall be six (6) inches minimum for residential driveways and eight (8) inches minimum for non-residential driveways.
- Maximum longitudinal slope shall not exceed 6% (16:1).
- Maximum transverse slope shall not exceed 2% (0.25" / FT).
- A two (2) inch minimum aggregate sub-base (CA-6 Gradation) shall be provided.
- Aggregate sub-base course shall be mechanically compacted.
- All sidewalk shall be promptly backfilled and protected from damage.
- Refer to Pavement Details 3a, 3b (ADA Sidewalk) and 4 (Sidewalk Construction)

REV. BBW	REV. 3-17-21	<b>SIDEWALK</b>	VILLAGE OF LOMBARD
REV. DRG	REV. 2-05-15		PAVEMENT 2
DRAWN BY: V.JGL	DATE: 02-16-98		



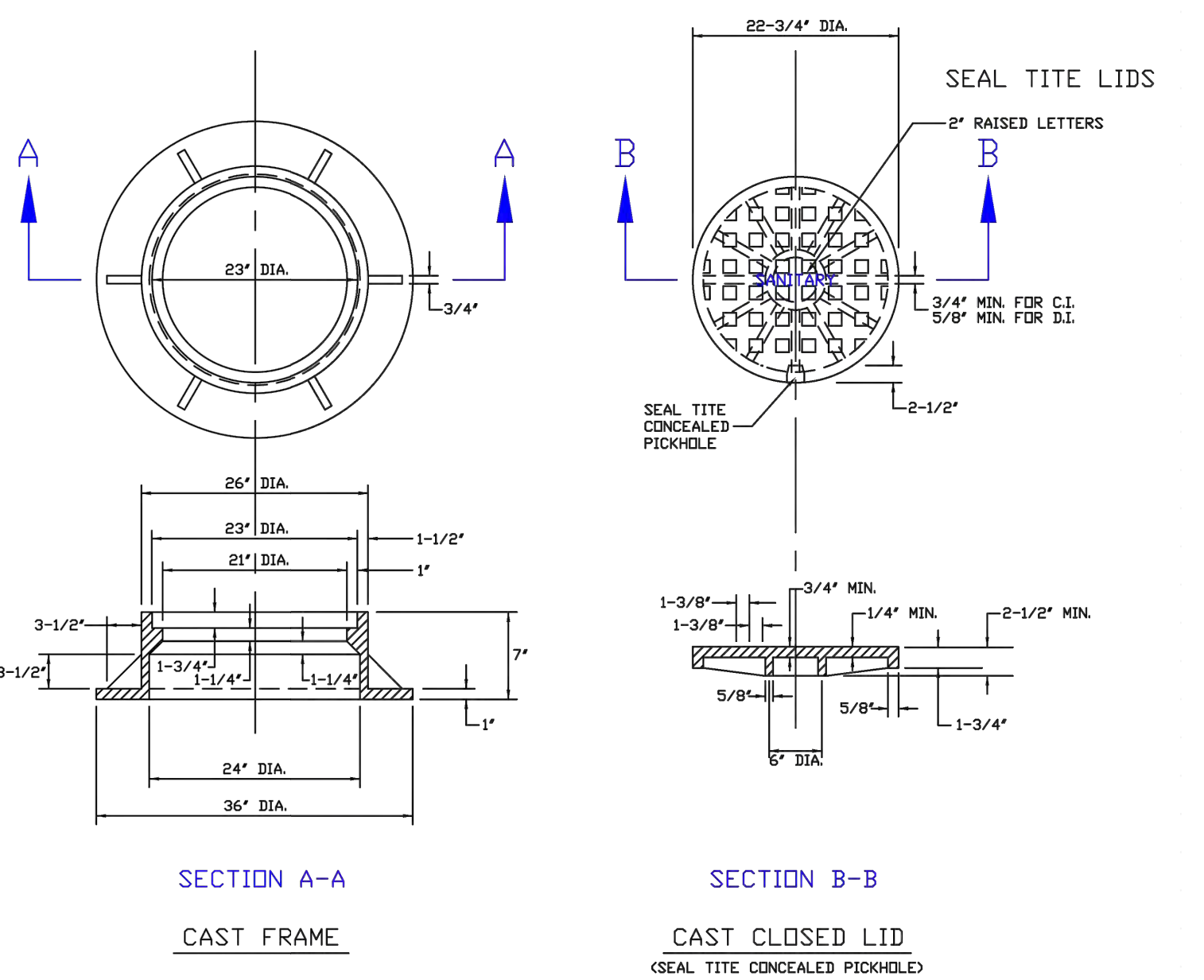
THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN SUPPLIER BY NUMBER. THE ARROW SHOULD BE OMITTED WHERE THERE IS ONLY ONE SPACE. THE ARROW MAY ALSO BE MADE TO POINT IN ONLY ONE DIRECTION. THE SIGN MUST BE SUPPLEMENTED WITH THE ILLINOIS STANDARD R7-101 PLATE GIVING THE AMOUNT OF THE FINE FOR ILLEGALLY PARKING IN THE RESERVED SPACES.



THIS PLATE MAY BE MOUNTED DIRECTLY BELOW THE R7-8 SIGN OR COMBINED WITH THAT SIGN ON A SINGLE 12" BY 24" PANEL. WHERE A FINE IN EXCESS OF \$100 IS ESTABLISHED BY A MUNICIPALITY BY ORDINANCE IN ACCORDANCE WITH THE STATUTES, THE ACTUAL AMOUNT OF THE FINE SHOULD BE SHOWN.

ILLINOIS STANDARD R7-101

REV. ERH	REV. 08-01-86	<b>HANDICAP STALL</b>	VILLAGE OF LOMBARD
REV. ERH	REV. 09-16-82		PAVEMENT 14
DRAWN BY: RTL	DATE: 7-20-99		



**GENERAL NOTES:**

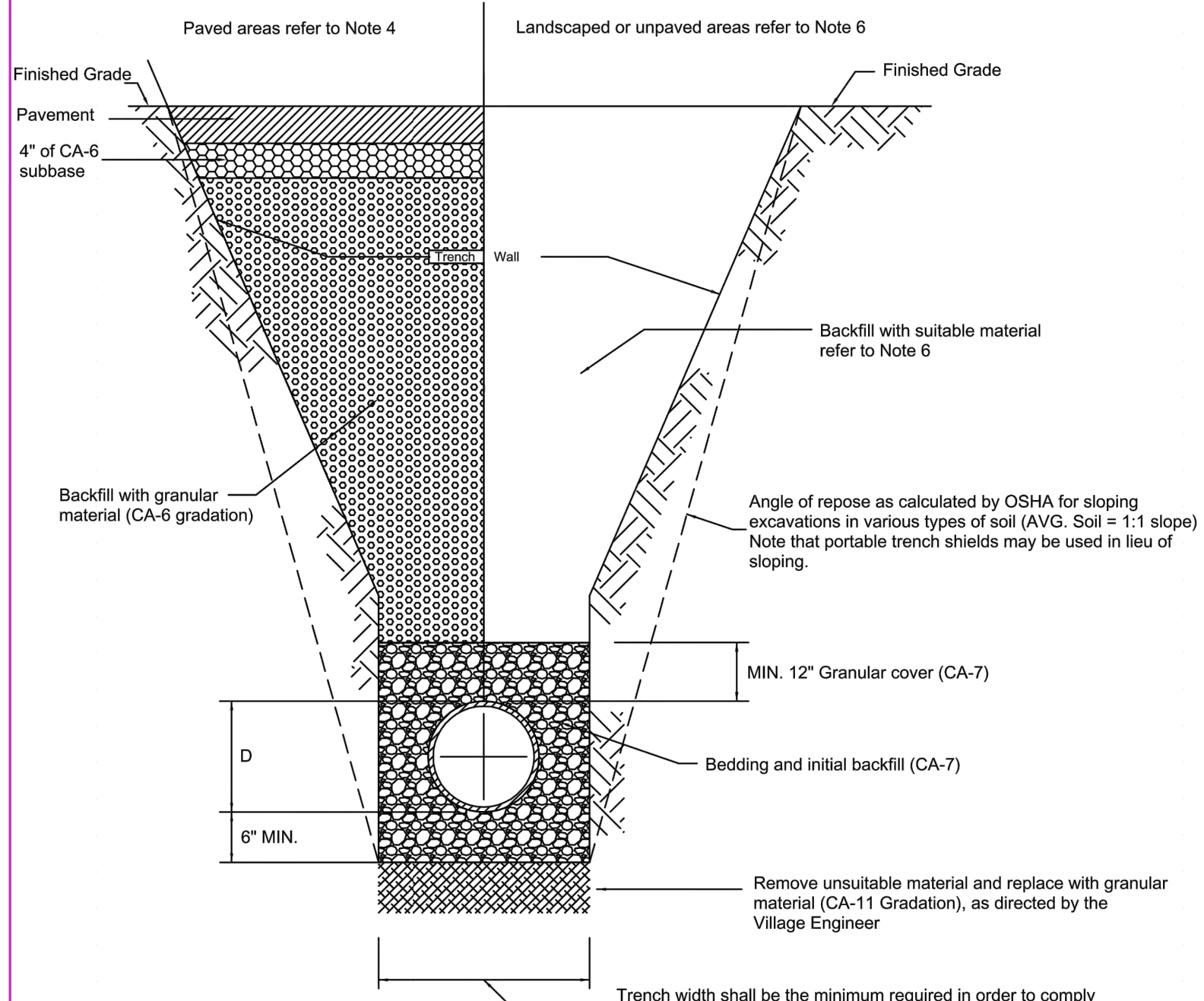
- The casting shall be either Neenah 1772 or EJ 1022 or an approved substitution.
- The manhole covers shall have the word "SANITARY" spelled out in raised letters as shown above. The word shall be centered on the lid.
- Waterproof, bolt-down frame and cover shall be used in any location subject to inundation. (Neenah R-1916, EJ 1022 WT with type 5 closed pick holes or approved substitution).
- Lids shall be "water-tite" or "self-sealing" with a factory installed gasket.

REV. BBW	REV. 2-5-21	<b>SANITARY MANHOLE FRAME AND COVER</b>	VILLAGE OF LOMBARD
REV. ERH	REV. 5-17-10		SANITARY 3
DRAWN BY: V.JGL	DATE: 2-16-98		

**GENERAL NOTES CONT:**

- Under landscaped areas suitable backfill material shall be placed and compacted as specified in not 4. The use of jetting (Method 3) shall not be allowed unless authorized in writing by the Village Engineer. It shall be the contractor's responsibility to provide appropriate justification in a written request to the Village Engineer for approval of jetting.
- When the inside edge of the trench is within two (2) feet of the proposed or existing pavement, curb and gutter, shoulder, sidewalk or driveway granular material per Note 4 shall be used.
- The minimum cover over the top of a rigid pipe shall be one (1) foot below the paved or landscaped finished grade. The minimum cover over the top of a flexible pipe, up to and including forty-eight (48) inches in diameter shall be one (1) foot below finished grade. The minimum cover over the top of a flexible pipe, greater than forty-eight (48) inches in diameter shall be eighteen (18) inches below the paved or landscaped finished grade.
- The maximum trench width allowed for the payment of backfill shall be 18 inches plus the outside diameter of the pipe when the trench depth is less than five (5) feet from finished grade to the pipe invert or thirty-six (36) inches plus the outside diameter of the pipe the trench depth is five (5) feet or greater.

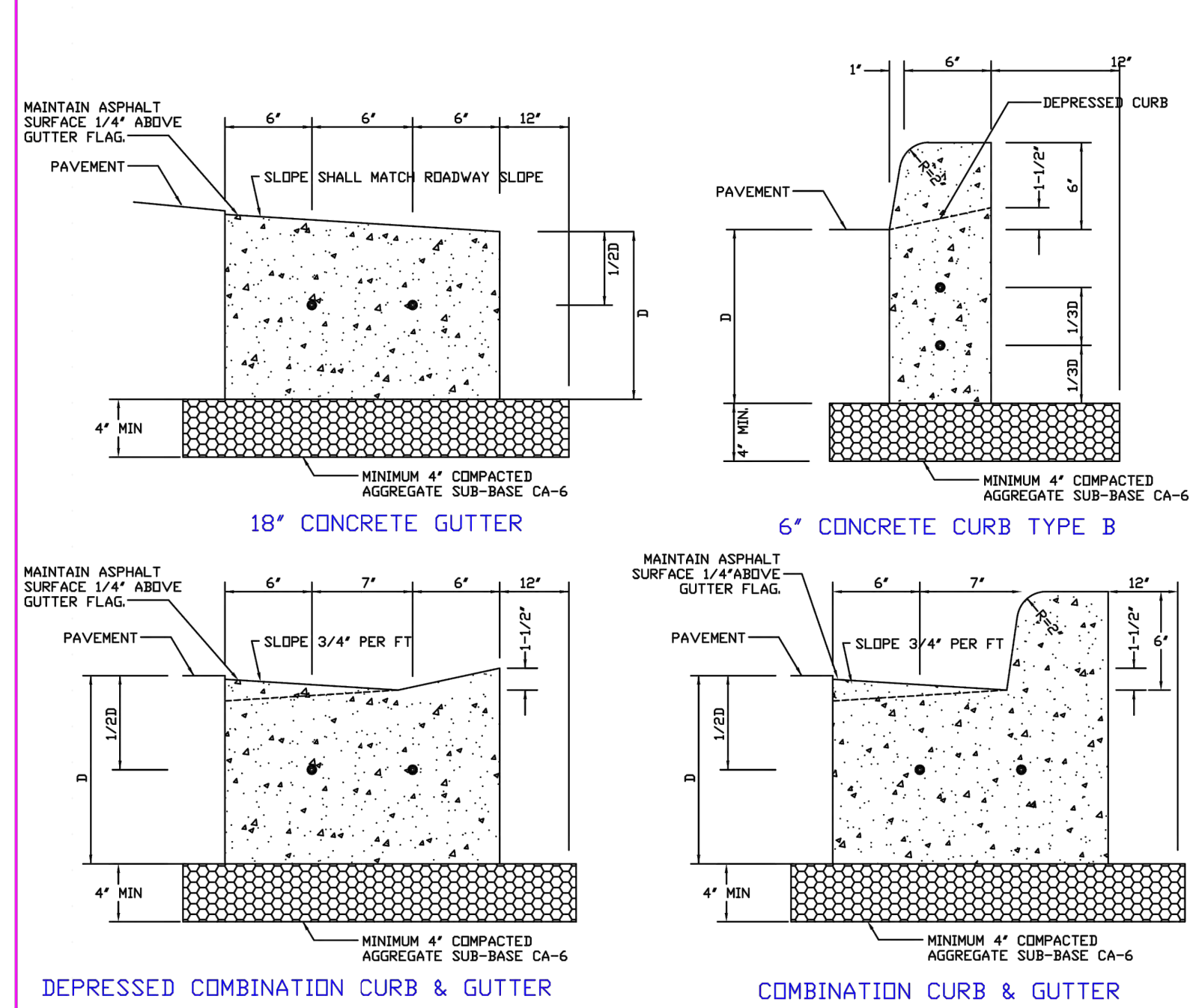
REV. BBW	REV. 2-18-21	<b>SANITARY SEWER TRENCH SECTION</b>	VILLAGE OF LOMBARD
REV. CEI	REV. 2-12-15		SANITARY 5A
DRAWN BY: V.JGL	DATE: 2-16-98		



**GENERAL NOTES:**

- The contractor shall comply with all applicable governing regulations, including but not limited to OSHA safety standards.
- Bedding thickness shall be a minimum of six (6) inches or one quarter (1/4) of the outside diameter of the pipe, whichever is greater.
- All bedding and pipe backfill material up to height of 12 inches above the pipe shall be carefully deposited in uniform layers not exceeding 6 inches thick (loose measure). Each lift shall be compacted by mechanical means to the satisfaction of the Engineer.
- Under paved and/or hard surfaces, granular backfill material (CA-6) shall be placed and compacted as specified per the Illinois Department of Transportation Standard Specifications for Road and Bridge, Section 550.07 Method 1. The use of jetting (Method 3) shall not be allowed unless authorized in writing by the Village Engineer. It shall be the contractor's responsibility to provide appropriate justification in a written request to the Village Engineer for approval of jetting.
- Granular material for backfill and bedding shall be gravel, crushed stone meeting the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction for coarse aggregate of the gradation specified. No recycled concrete shall be allowed.

REV. BBW	REV. 2-18-21	<b>SANITARY SEWER TRENCH SECTION</b>	VILLAGE OF LOMBARD
REV. DRG	REV. 4-20-17		SANITARY 5
DRAWN BY: V.JGL	DATE: 2-16-98		



**GENERAL NOTES:**

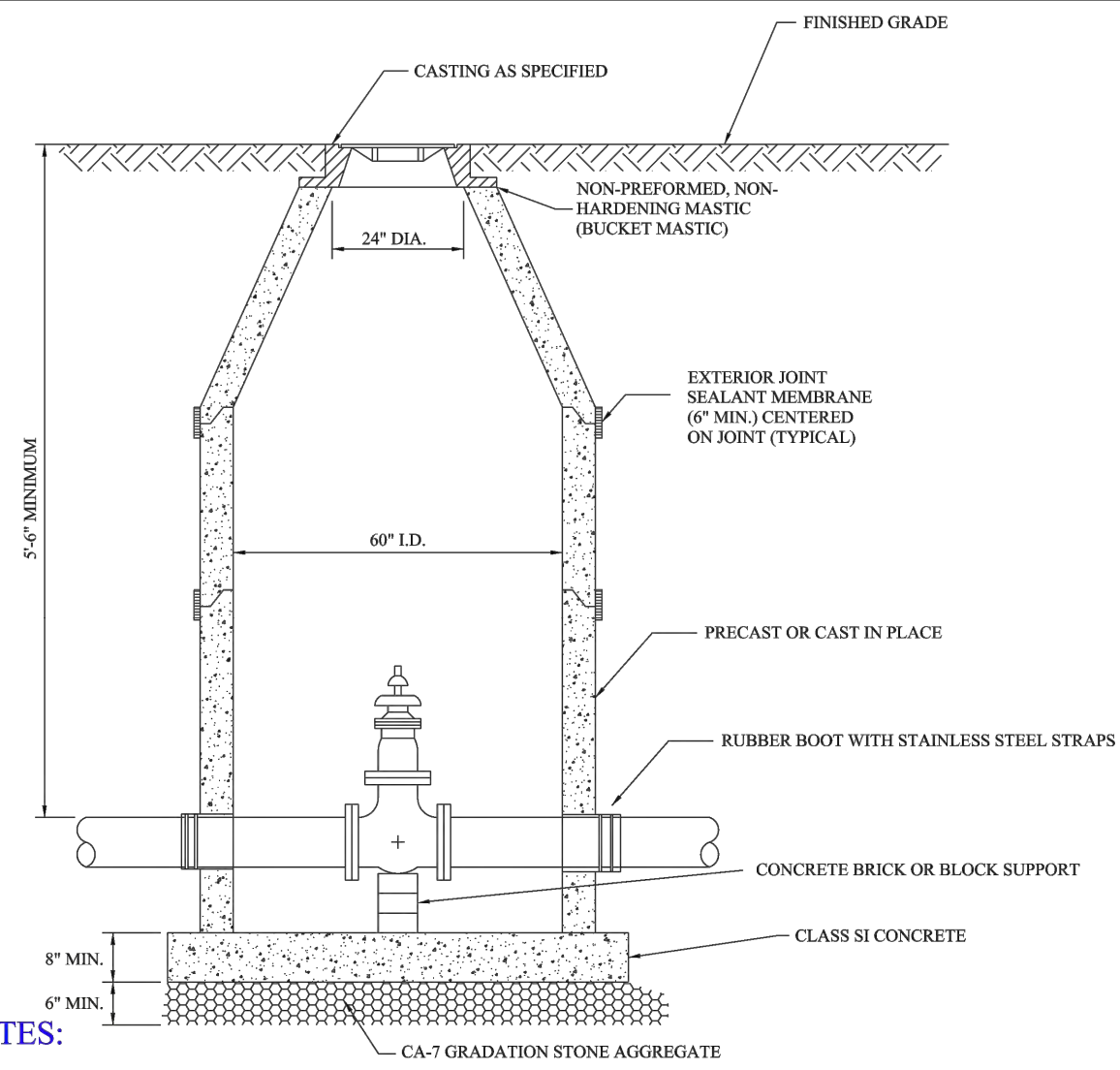
- 3/4" PREFORMED BITUMINOUS EXPANSION JOINT MATERIAL WITH TWO #6 COATED SMOOTH DWEL BARS (3/4" DIAMETER X 18") WITH GREASED CAPS SHALL BE PLACED EVERY 45 FEET. THEY SHALL ALSO BE PLACED AT 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS, AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB AND GUTTER, THE EXISTING CURB SHALL BE DRILLED, AND TWO # 6 COATED SMOOTH DWEL BARS (3/4" DIAMETER X 18") SHALL BE GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER AND SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
- TODDLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15 FEET.
- SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A VILLAGE APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
- TWO (2) #4 REBARS SHALL BE PLACED CONTINUOUS THROUGHOUT THE CURB AND GUTTER.
- THE MINIMUM DEPTH OF THE CURB SHALL BE 9".

REV. DRG	REV. 03-25-16	<b>CURB AND GUTTER</b>	VILLAGE OF LOMBARD
REV. DRG	REV. 02-05-15		PAVEMENT 8
DRAWN BY: V.JGL	DATE: 2-16-98		

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**DETAILS**  
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244 E. ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

**RWE**  
DESIGN BUILD  
16W361 S. FRONTAGE ROAD, SUITE 106  
BURR RIDGE, ILLINOIS 60527



**GENERAL NOTES:**

1. Provide precast reinforced concrete barrel and riser section. Concrete block construction is not permitted.
2. Provide granular backfill around manhole to subgrade elevation in paved areas. Materials shall meet the requirements of IDOT "Standard Specifications for Road and Bridge Construction" for coarse aggregate CA-6 gradation.
3. Joint Sealant: All surfaces shall be free of dirt, oil or debris. Apply a continuous layer of non-hardening bituminous bucket mastic material to each joint below the bottom of the cone or flange. Excess joint sealant shall be trimmed flush to both inside and outside surfaces of the structure. Approved products are as follows: EZ-STIK premium butyl sealant by Press-Seal Corporation, CS-202 Butyl Rubber Sealant by Con Seal, or RU106 RUB'R-NEK by Henry.
4. When the frame does not meet the proposed elevations, adjusting rings shall be used for final adjustment. A maximum of 3 adjusting rings may be used up to a total of 12 inches of rings. Concrete, rubberized, high density expanded polystyrene or expanded polypropylene rings may be used (all rings must be IDOT approved). Concrete rings may be no less than 3 inches thick. Each ring shall be sealed underneath the frame per the product manufacturers specifications with the approval of the Engineer.
5. Precast adjusting rings shall be reinforced with No. 3 gauge wire or equivalent and shall have a minimum thickness of 3 inches.
6. Within non-paved areas, mortar shall only be used to dress up adjusting rings and/or frame on the exterior of the structure. Mortar is not permitted on the inside of the rings and/or frame.
7. When specified, plastic polymer steps shall be used. Steps shall not extend beyond the outside of the structure.
8. Approved exterior joint sealant membrane products: Crete wrap by Crete Specialty Products, INFI-SHIELD, Gator Wrap by Sealing Systems, Inc., or Barrel Wrap by Adaptor. Approved external chimney products are: Classic External Chimney Seal by Crete Specialty Products, INFI-SHIELD Rubber External Chimney Sealing by Sealing Systems, Inc. or Internal/External adaptor seal (IEA SEAL) by Adaptor. All products shall be provided by an authorized vendor and shall be installed per the manufacturer's specifications.
9. Valve must align with the center of the vault opening.
10. Cones must be concentric with valves 12" and smaller.
11. Butterfly valves require eccentric cones.
12. All valve vaults require rubber boots with stainless steel straps with the exception of pressure connections valve vaults. (Per water detail 10)
13. Outside of paved areas, a chimney sealing system per Village detail Sanitary 6 shall be installed.

REV.:	BBW	REV.:	02-01-21
REV.:	CEI	REV.:	01-14-20
DRAWN BY:	VJGL	DATE:	02-16-98

**WATER TIGHT VALVE VAULT**

VILLAGE OF LOMBARD
WATER 4

REV.:	CEI	REV.:	2-18-15
REV.:	ERH	REV.:	3-17-99
DRAWN BY:	ERH	DATE:	2-16-98

**STORM SEWER TRENCH SECTION**

VILLAGE OF LOMBARD
STORM-11A

REV.:	BBW	REV.:	3-3-21
REV.:	CEI	REV.:	1-14-20
DRAWN BY:	VJGL	DATE:	2-16-98

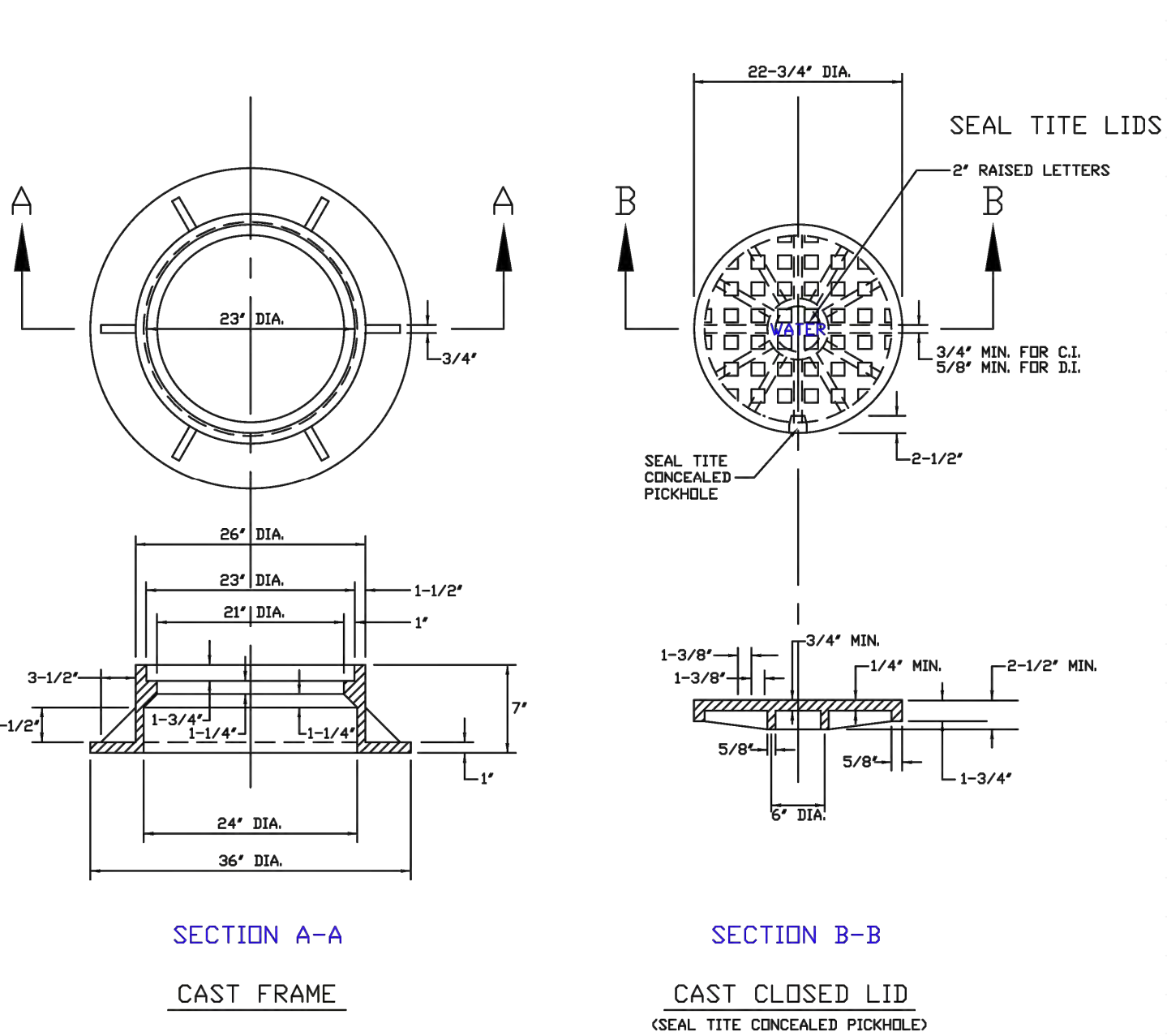
**STORM SEWER TRENCH SECTION**

VILLAGE OF LOMBARD
STORM 11 (PWENGINEERING)

REV.:	BBW	REV.:	3-3-21
REV.:	DRG	REV.:	5-5-15
DRAWN BY:	VJGL	DATE:	2-16-98

**CATCH BASIN TYPE A**

VILLAGE OF LOMBARD
STORM 3



SECTION A-A

CAST FRAME

SECTION B-B

CAST CLOSED LID  
(SEAL TITE CONCEALED PICKHOLE)

**GENERAL NOTES:**

1. The casting shall be either Neenah 1772 or EJ 1022 or an approved substitution.
2. The manhole covers shall have the word "WATER" spelled out in raised letters as shown above. The word shall be centered on the lid.
3. Waterproof bolt down frame and cover shall be used in any location subject to inundation. Castings shall be: Neenah R-1916-C, EJ 1022 WT or an approved substitution.
4. Lids shall be "watertite" or "self-sealing" with a factory installed gasket.

REV.:	BBW	REV.:	2-1-21
REV.:	ERH	REV.:	5-17-10
DRAWN BY:	VJGL	DATE:	2-16-98

**VALVE VAULT FRAME AND COVER**

VILLAGE OF LOMBARD
WATER 5

REV.:	BBW	REV.:	2-3-21
REV.:	CEI	REV.:	2-17-10
DRAWN BY:	VJGL	DATE:	2-16-98

**WATER AND SEWER SEPARATION**

VILLAGE OF LOMBARD
WATER 8

REV.:	BBW	REV.:	2-3-21
REV.:	AK	REV.:	12-11-09
DRAWN BY:	VJGL	DATE:	2-16-98

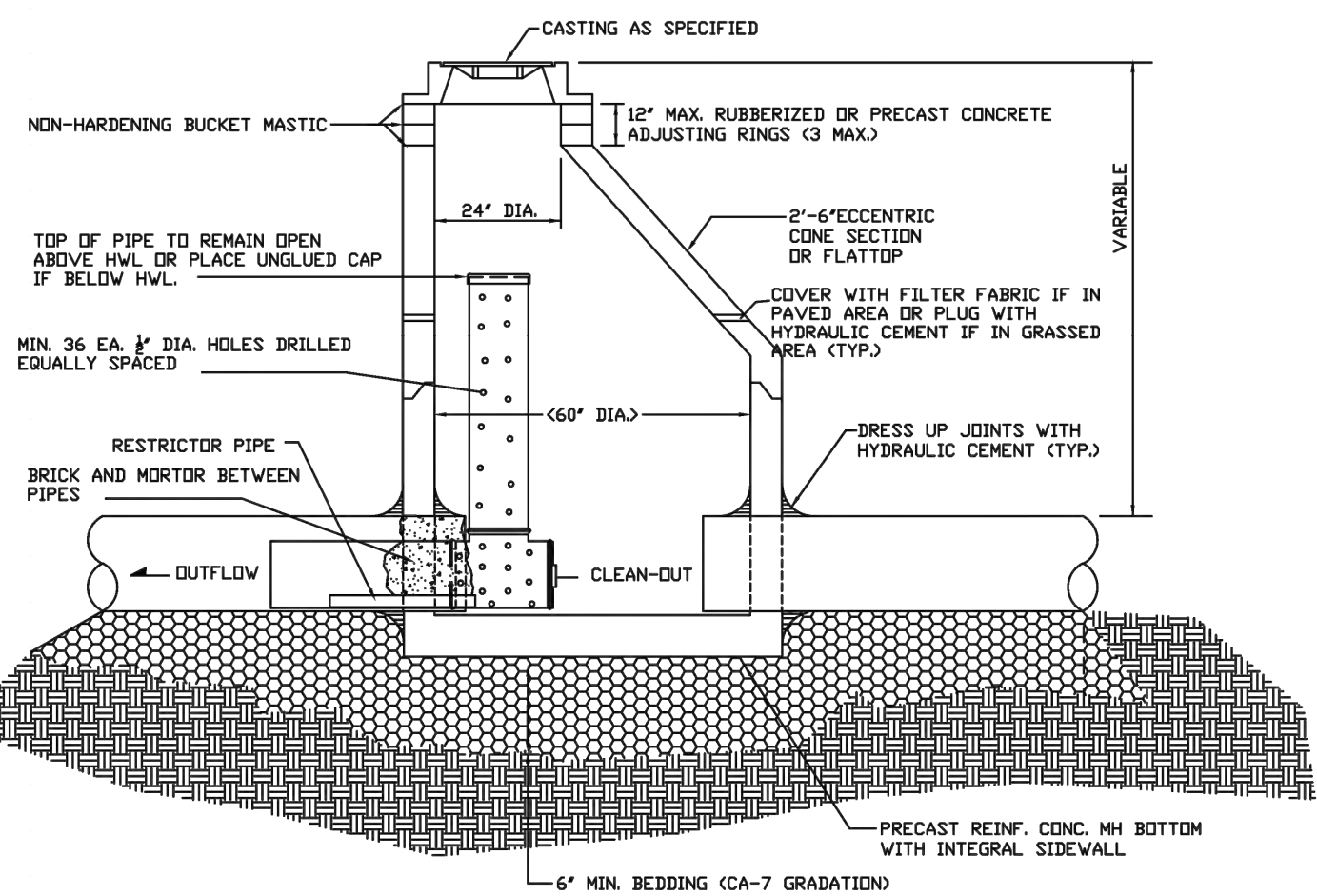
**THRUST BLOCK INSTALLATION**

VILLAGE OF LOMBARD
WATER 6

REV.:	DRG	REV.:	5-15-15
REV.:	ERH	REV.:	8-23-06
DRAWN BY:	ERH	DATE:	9-01-04

**RESTRICTOR DETAIL**

VILLAGE OF LOMBARD
STORM 19



**GENERAL NOTES:**

1. RESTRICTOR PIPE MATERIAL CAN BE SCHEDULE 40 PVC PIPE.
2. 6" DIA. SDR 26 PVC PIPE GROUDED INTO THE OUTLET PIPE. EXTEND RESTRICTOR PIPE INTO VISIBLE AREA OF TEE FOR VERIFICATION.
3. CASTINGS SHALL HAVE FACTORY INSTALLED O-RING GASKETS.
4. MANHOLE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH MANHOLE TYPE A (STORM 19) SPECIFICATIONS.

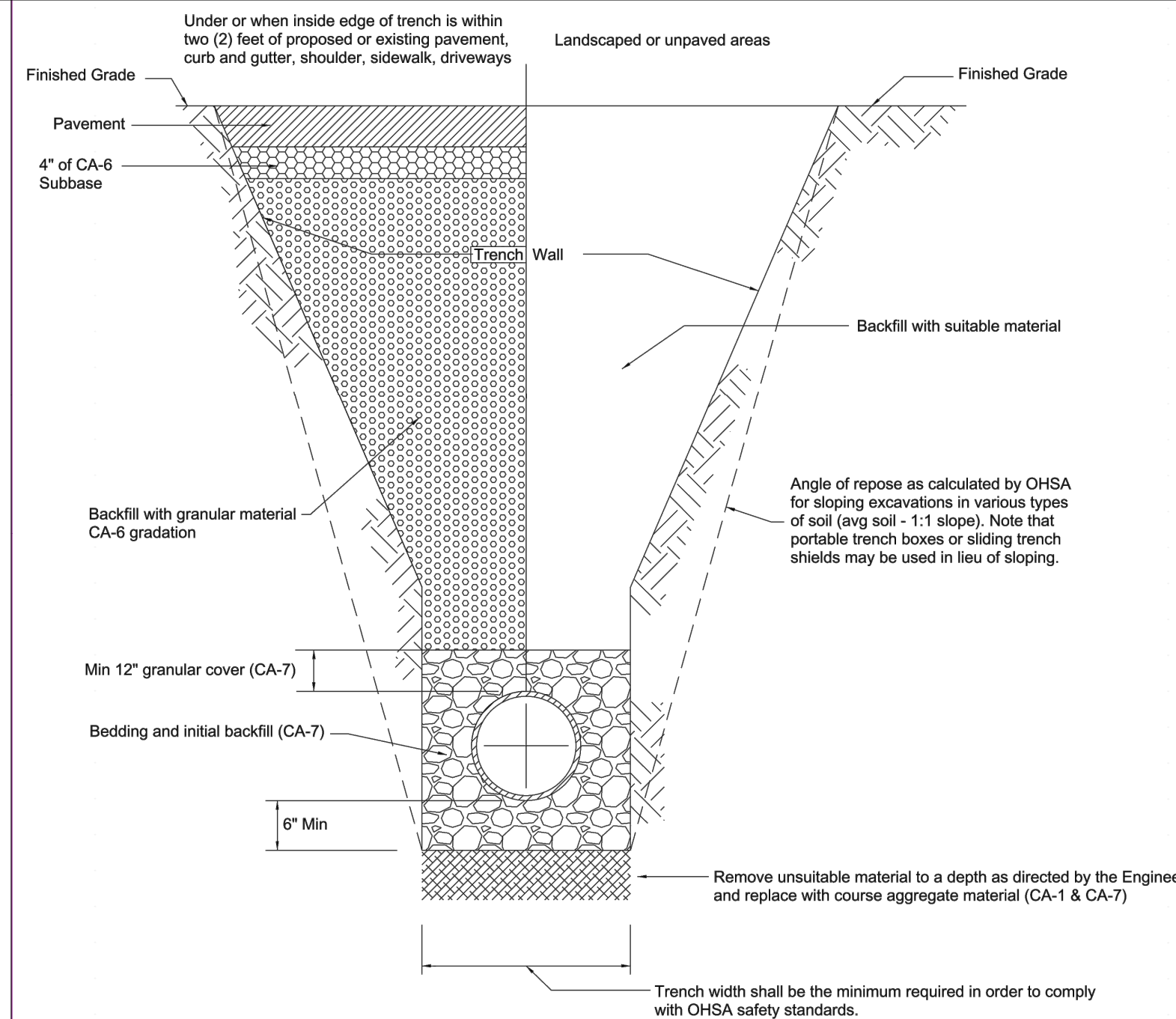
REV.:	DRG	REV.:	5-15-15
REV.:	ERH	REV.:	8-23-06
DRAWN BY:	ERH	DATE:	9-01-04

**RESTRICTOR DETAIL**

VILLAGE OF LOMBARD
STORM 19

**GENERAL NOTES CONT.:**

4. BACKFILL MATERIAL CONSISTING OF SUITABLE EXCAVATED MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING TWELVE (12) INCHES THICK (LOOSE MEASURE) AND EACH LAYER SHALL BE COMPACTED BY RAMMING OR TAMPING TO ACHIEVE THE REQUIRED COMPACTION. JETTING OF THIS MATERIAL MAY BE PERMITTED WHEN AUTHORIZED IN WRITING BY THE VILLAGE ENGINEER. IT SHALL BE THE DESIGN ENGINEER OR THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT APPROPRIATE JUSTIFICATION AND DOCUMENTATION (SOILS INVESTIGATION REPORTS, ETC.) TO THE VILLAGE ENGINEER WITH THE REQUEST FOR APPROVAL OF JETTING.
5. GRANULAR MATERIAL FOR BACKFILL AND BEDDING SHALL BE GRAVEL, CRUSHED GRAVEL OR STONE MEETING THE REQUIREMENTS OF THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COURSE AGGREGATE, OF THE GRADATION SPECIFIED. NO RECYCLED CONCRETE SHALL BE ALLOWED.
6. MINIMUM COVER OVER THE TOP OF PIPE SHALL BE SIX (6) INCHES BELOW FINISHED SUBGRADE IN PAVED AREAS AND TWELVE (12) INCHES BELOW FINISHED GRADE IN LANDSCAPE AREAS.
7. THE BEDDING THICKNESS SHALL BE EQUAL TO ONE-QUARTER (1/4) OF THE OUTSIDE DIAMETER OF THE PIPE BUT NOT LESS THAN SIX (6) INCHES.



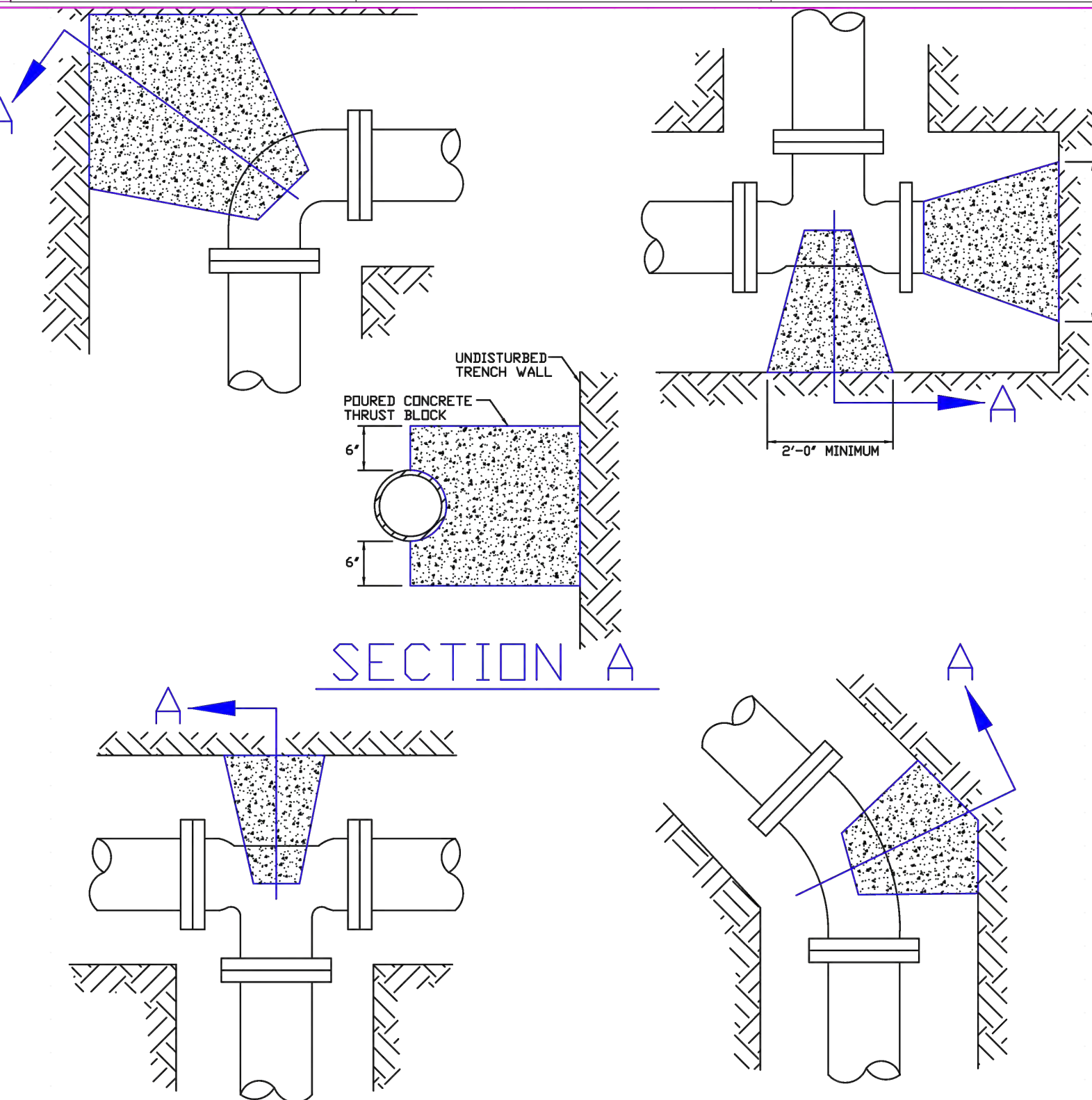
**GENERAL NOTES:**

1. The contractor shall comply with all applicable governing regulations, including but not limited to OSHA safety standards.
2. Bedding thickness shall be a minimum of six(6) inches or one quarter (1/4) of the outside diameter of the pipe, whichever is greater.
3. All bedding and pipe backfill material (up to a height of 12 inches above the pipe) shall be carefully deposited in uniform layers not exceeding 6 inches thick (loose measure). Each lift shall be compacted by mechanical means to the satisfaction of the Engineer.
4. Under paved and/or hard surfaces, granular backfill material (CA-6) shall be placed and compacted as specified by the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Section 500.01 Method 1. The use of jetting (Method 3) shall not be allowed unless authorized in writing by the Village Engineer. It shall be the contractor's responsibility to provide appropriate justification (in the form of documentation) to the Village Engineer with the request for the approval of jetting.
5. Granular material for backfill and bedding shall be gravel, crushed gravel or stone meeting the requirements of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction for course aggregate of the gradation specified. No recycled concrete shall be allowed.
6. Under landscaped areas suitable backfill material shall be placed and compacted as specified in Note 4. The use of jetting (method 3) shall not be allowed unless authorized in writing by the Village Engineer. It shall be the contractor's responsibility to provide appropriate justification (in the form of documentation) to the Village Engineer with the request for the approval of jetting.
7. When the inside edge of the trench is within two (2) feet of the proposed or existing pavement, curb, and gutter, shoulder, sidewalk, or driveway, granular material per note 4 shall be used.
8. The minimum cover over the top of the rigid pipe shall be one (1) foot below the paved or landscaped finished grade. The minimum cover over the top of a flexible pipe, up to and including forty-eight (48) inches in diameter, shall be one (1) foot below the paved or landscaped finished grade. The minimum cover over the top of a flexible pipe, greater than forty-eight (48) inches in diameter, shall be eighteen (18) inches below the paved or landscaped finished grade.
9. The maximum trench width allowed for payment of back fill shall be 18 inches plus the outer pipe diameter when the trench depth is less than 5 feet from subgrade to the pipe invert or 36 inches plus the outer pipe diameter when the trench depth is 5 feet or greater.

REV.:	BBW	REV.:	3-3-21
REV.:	CEI	REV.:	1-14-20
DRAWN BY:	VJGL	DATE:	2-16-98

**STORM SEWER TRENCH SECTION**

VILLAGE OF LOMBARD
STORM 11 (PWENGINEERING)



**GENERAL NOTES:**

1. Thrust blocking is used to prevent movement of lines under pressure bends, tees, caps, valves, hydrants, and at points specified by the Village Engineer. Concrete shall be class SI and be a minimum of twelve (12) inches thick plus the size of the watermain. It shall be placed between solid ground and fittings. Fittings will be accessible for repairs. Thrust block shall be placed at bends of 11-1/4 degrees or more. The area of bearing shall be sufficient to resist the applied forces. Use of 90 degree bends require approval from the Village Engineer prior to installation.
2. Use of wood for thrust blocking is strictly prohibited.

REV.:	BBW	REV.:	2-3-21
REV.:	AK	REV.:	12-11-09
DRAWN BY:	VJGL	DATE:	2-16-98

**THRUST BLOCK INSTALLATION**

VILLAGE OF LOMBARD
WATER 6

REMARKS  
REVISED PER ARCHITECT/VILLAGE  
DATE 11/23/2022  
NO. 1.

**ADVANTAGE**  
CONSULTING ENGINEERS

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630-520-2467  
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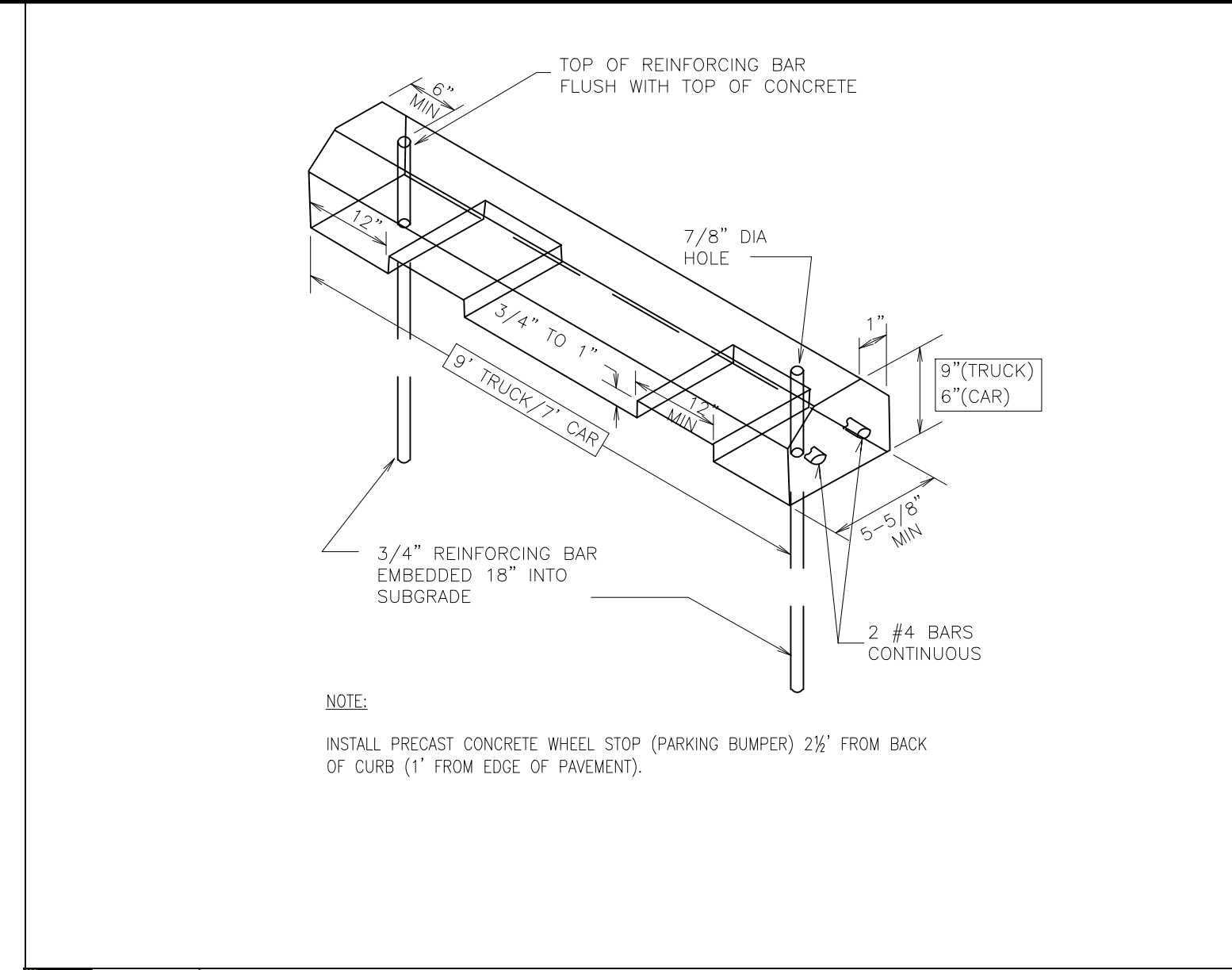
**DETAILS**

**LOMBARD VETERINARY HOSPITAL**  
244 E. ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

**RWE**  
DESIGN BUILD

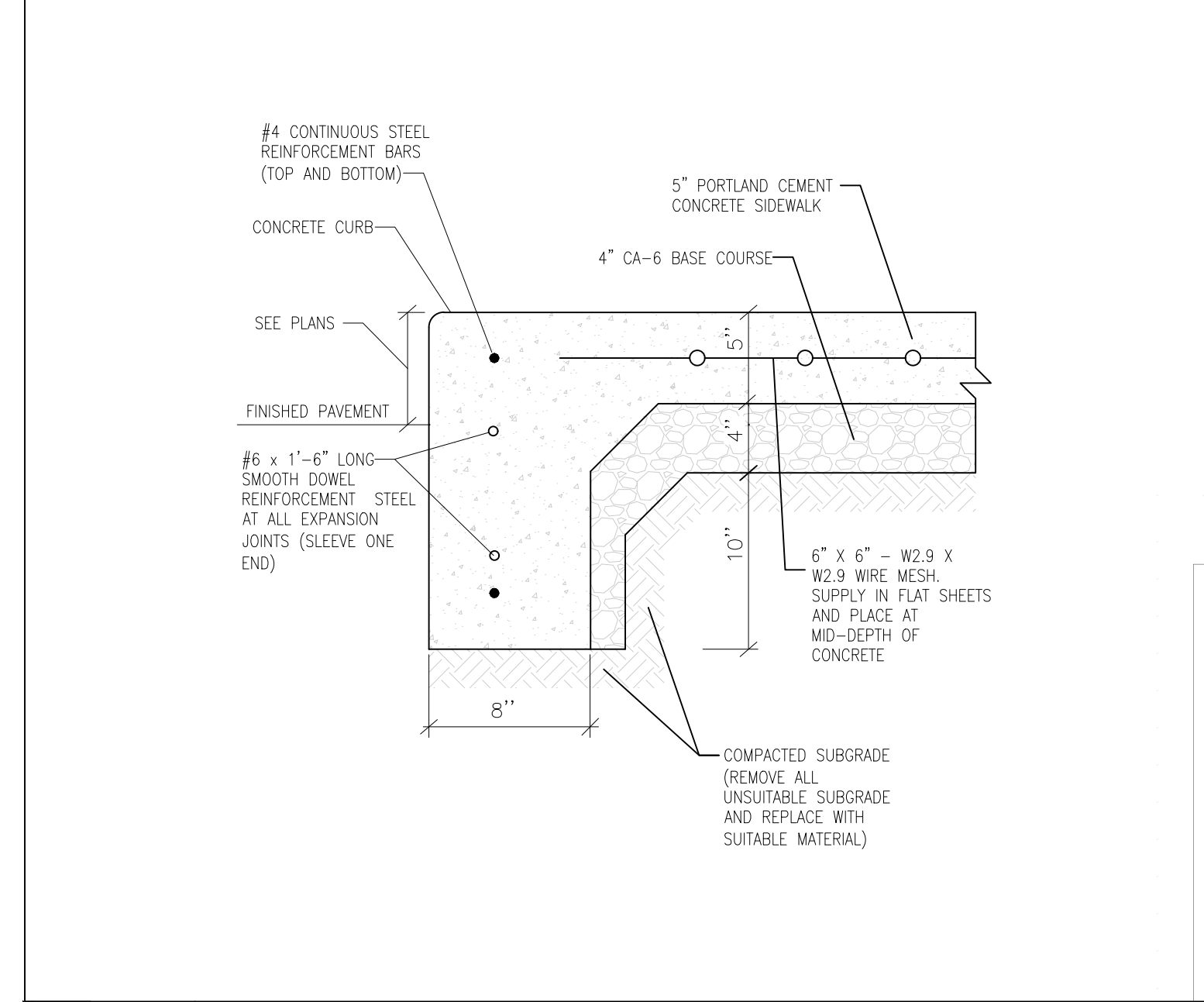
16W361 S. FRONTAGE ROAD, SUITE 106  
BURR RIDGE, ILLINOIS 60527





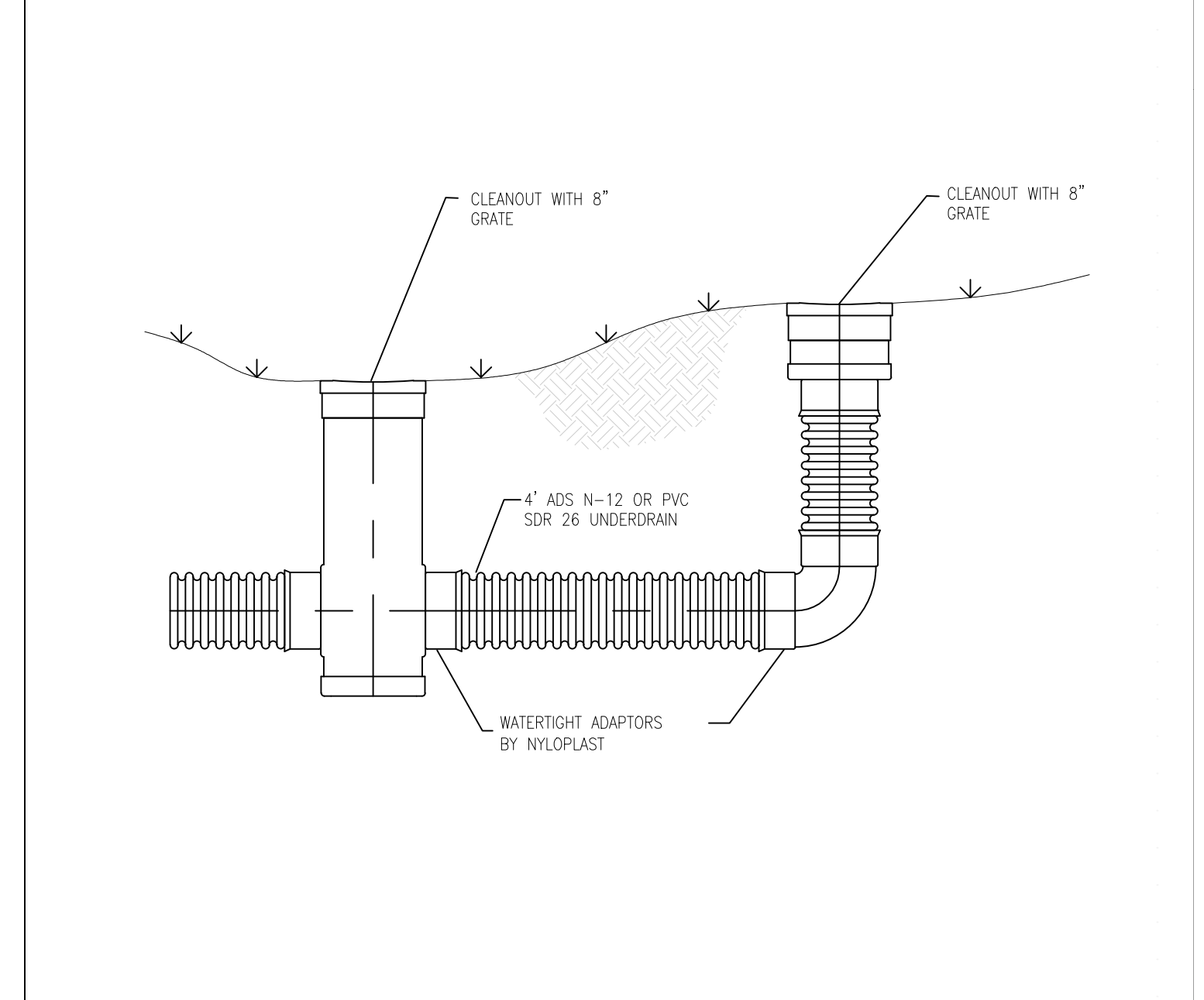
ACE  
DETAIL

WHEEL STOP  
(PRECAST CONCRETE)  
N.T.S.



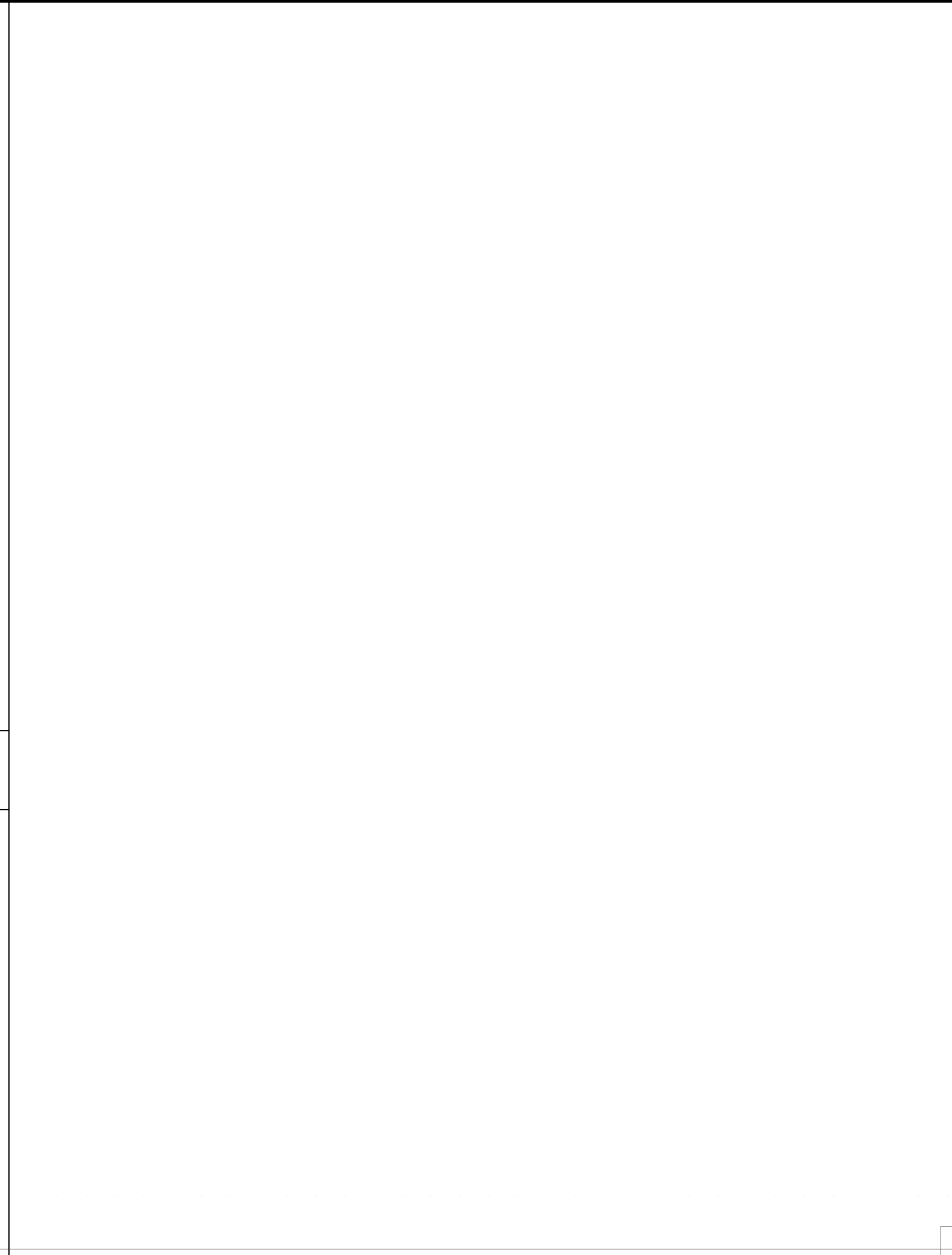
ACE  
DETAIL

MONOLITHIC CURB/SIDEWALK DETAIL  
N.T.S.



ACE  
DETAIL

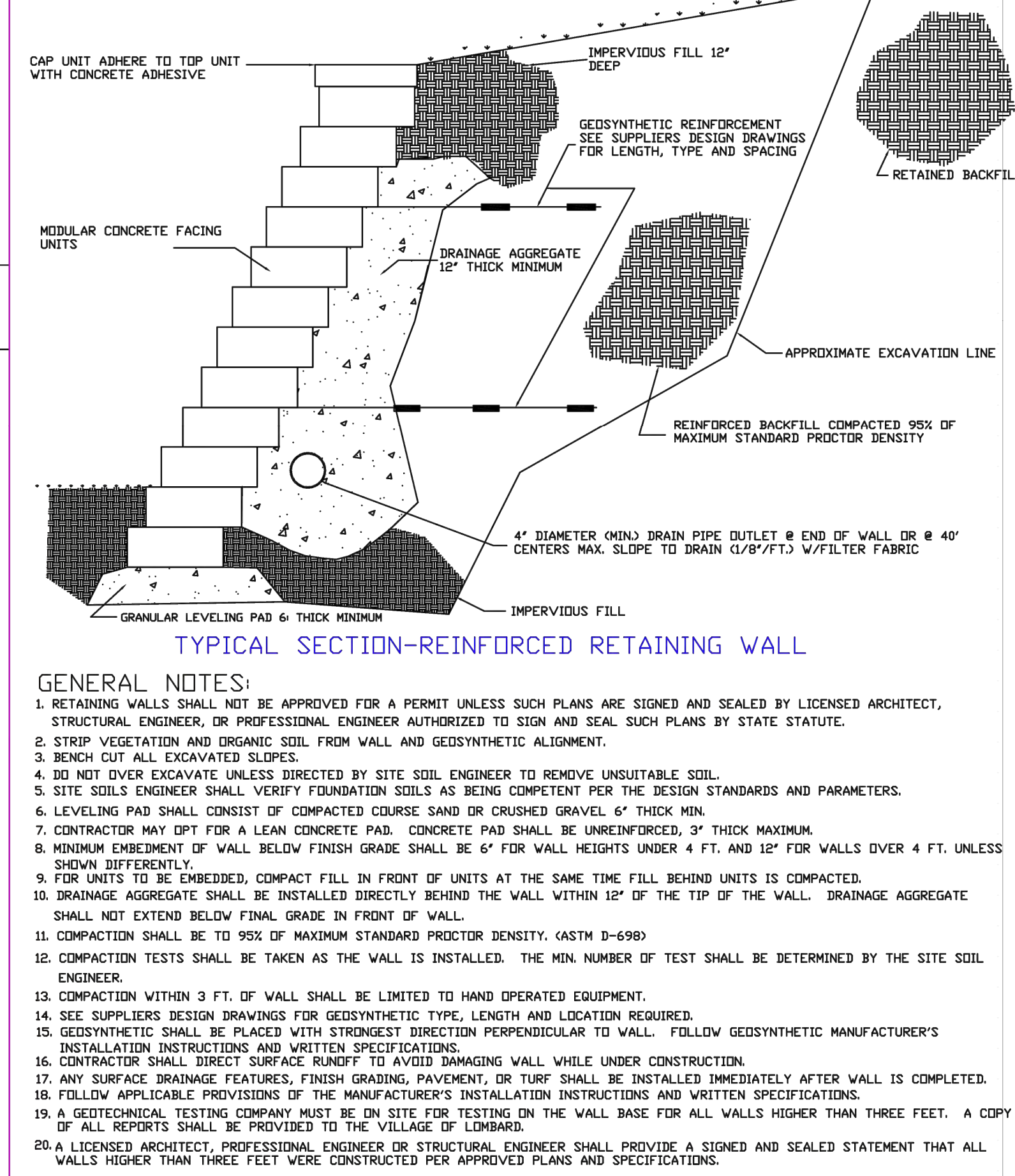
TYPICAL UNDERDRAIN & INLET BOX INSTALLATIONS  
N.T.S.



IF CONDITIONS ARE DIFFERENT THAN THOSE STATED IN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.

ACE  
DETAIL

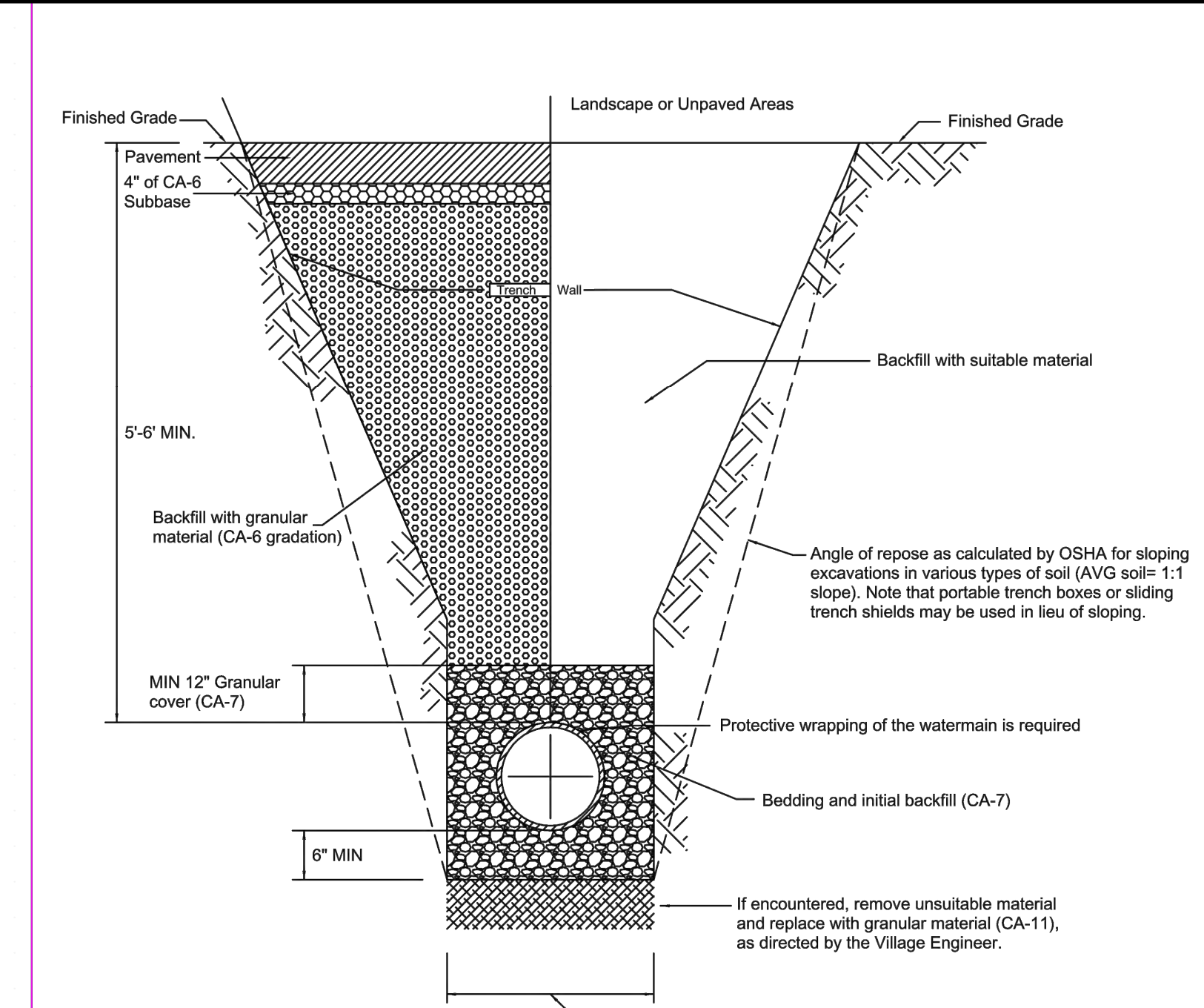
TYPICAL SECTION-REINFORCED RETAINING WALL



REV: ERM DATE: 5-17-10  
REV: ERM DATE: 6-20-00  
DRAWN BY: ERM DATE: 1-26-00

VILLAGE OF LOMBARD  
STURM-16

RETAINING WALL



GENERAL NOTES:

- The contractor shall comply with all applicable governing regulations, including but not limited to OSHA safety standards.
- Bedding thickness shall be a minimum of six(6) inches or one quarter (1/4) of the outside diameter of the pipe, whichever is greater.
- All bedding and pipe backfill material (up to a height of 12 inches above the pipe) shall be carefully deposited in uniform layers not exceeding 6 inches thick (loose measure). Each lift shall be compacted by mechanical means to the satisfaction of the Engineer.
- Under paved and/or hard surfaces, granular backfill material (CA-6) shall be placed and compacted as specified by the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Section 550.01 Method 1. The use of jettling (method 3) shall not be allowed unless authorized in writing by the Village Engineer. It shall be the contractor's responsibility to provide appropriate justification (in the form of documentation) to the Village Engineer with the request for the approval of jettling.
- Granular material for backfill and bedding shall be gravel, crushed gravel or stone meeting the requirements of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction for coarse aggregate of the gradation specified. No recycled concrete shall be used.
- Under landscaped areas suitable backfill material shall be placed and compacted as specified in Note 4. The use of jettling (method 3) shall not be allowed unless authorized in writing by the Village Engineer. It shall be the contractor's responsibility to provide appropriate justification (in the form of documentation) to the Village Engineer with the request for the approval of jettling.
- When the inside edge of the trench is within two (2) feet of the proposed or existing pavement, curb, and gutter, shoulder, sidewalk, or driveway, granular material per note 4 shall be used.
- The minimum cover over the top of the watermain shall be five (5) foot six (6) inches below the finished grade.
- The maximum trench width allowed for payment of back fill shall be 16 inches plus the outer pipe diameter when the trench depth is less than 5 feet from subgrade to the pipe invert or 30 inches plus the outer pipe diameter when the trench depth is 5 feet or greater.

REV: BBW DATE: 2-2-21  
REV: JKB DATE: 4-23-18  
DRAWN BY: V.JGL DATE: 2-16-98

WATER MAIN  
TRENCH SECTION

VILLAGE OF LOMBARD  
WATER 7

REV: ERM DATE: 3-06-01  
REV: ERM DATE: 6-20-00  
DRAWN BY: ERM DATE: 1-26-00

VILLAGE OF LOMBARD  
STURM-16A

RETAINING WALL CONT.



REV: ERM DATE: 3-06-01  
REV: ERM DATE: 6-20-00  
DRAWN BY: ERM DATE: 1-26-00

VILLAGE OF LOMBARD  
STURM-16A

RETAINING WALL CONT.

REMARKS  
REVISIONS PER ARCHITECT/ENGINEER

DATE: 11/23/2022

NO. 1.

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**DETAILS**

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244 E ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

**RWE**  
DESIGN BUILD

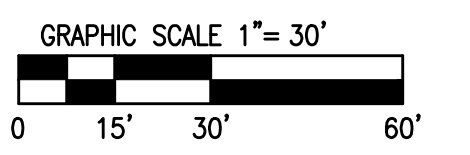
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VILLAGE OF LOMBARD  
STURM-16A

AUGUST 05, 2022  
JOB: 22-012

SHEET:  
**D3**  
17 OF 18

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- IMPERVIOUS AREA
- PERVIOUS AREA
- PERMEABLE PAVER AREA
- PROJECT AREA BOUNDARY 2.59 AC

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.

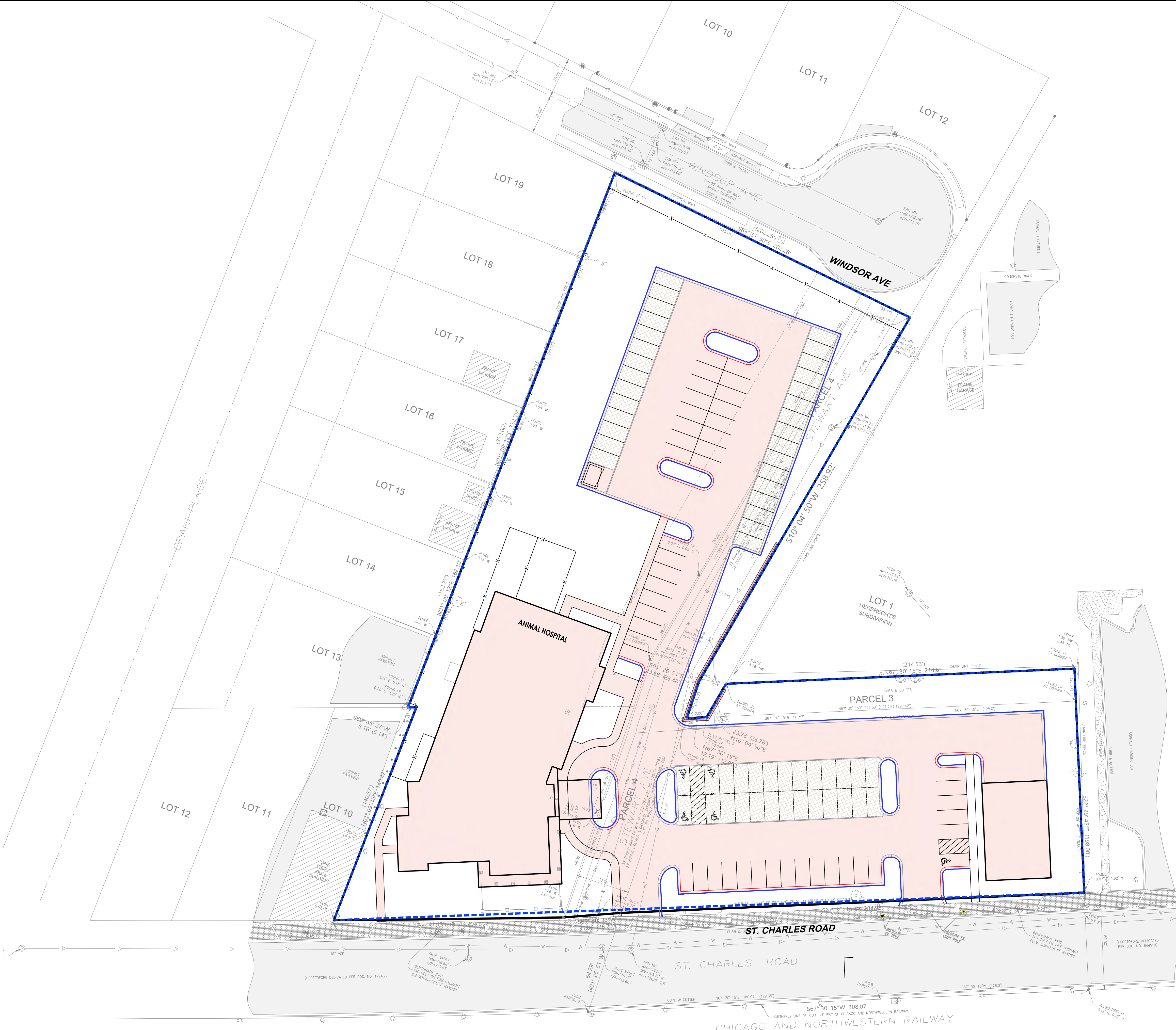
SINCE ADDITIONAL IMPERVIOUS AREA IS LESS THAN 5,000 S.F., DETENTION VOLUME IS NOT REQUIRED. VCBMP WILL BE REQUIRED.

VCBMP VOLUME REQUIRED	
TOTAL IMPERVIOUS AREA	56,631 S.F.
VCBMP RATE REQUIRED	1.25 INCH
VCBMP VOLUME REQUIRED	5,899 C.F.

STORAGE VOLUME PROVIDED	
AREA OF INFILTRATION 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 S.F.	DEPTH (H) FT.	V=H/3(A1+A2+Sqrt(A1*A2)), AC FT	CUMM VOL. 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. =	5,104
	VOLUME PROVIDED, AC FT =	0.12



ADVANTAGE

CONSULTING ENGINEERS

80 MAIN STREET - SUITE 17 - LEMONT, ILLINOIS 60439  
630-500-2467 WWW.ACEBOLUS

DRAINAGE AREA EXHIBIT

LOMBARD VETERINARY HOSPITAL  
244 E ST. CHARLES ROAD  
LOMBARD, ILLINOIS 60148

RWE

DESIGN BUILD

16W361 S. FRONTAGE ROAD, SUITE 106  
BURR RIDGE, ILLINOIS 60527

AUGUST 05, 2022  
JOB: 22-012

SHEET:  
DR1

18 OF 18