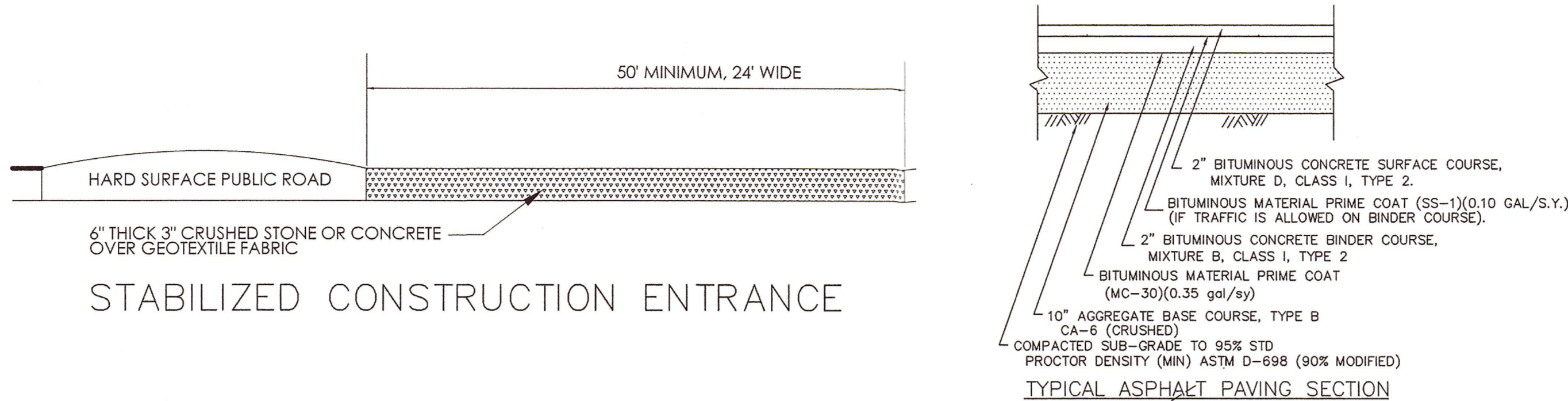
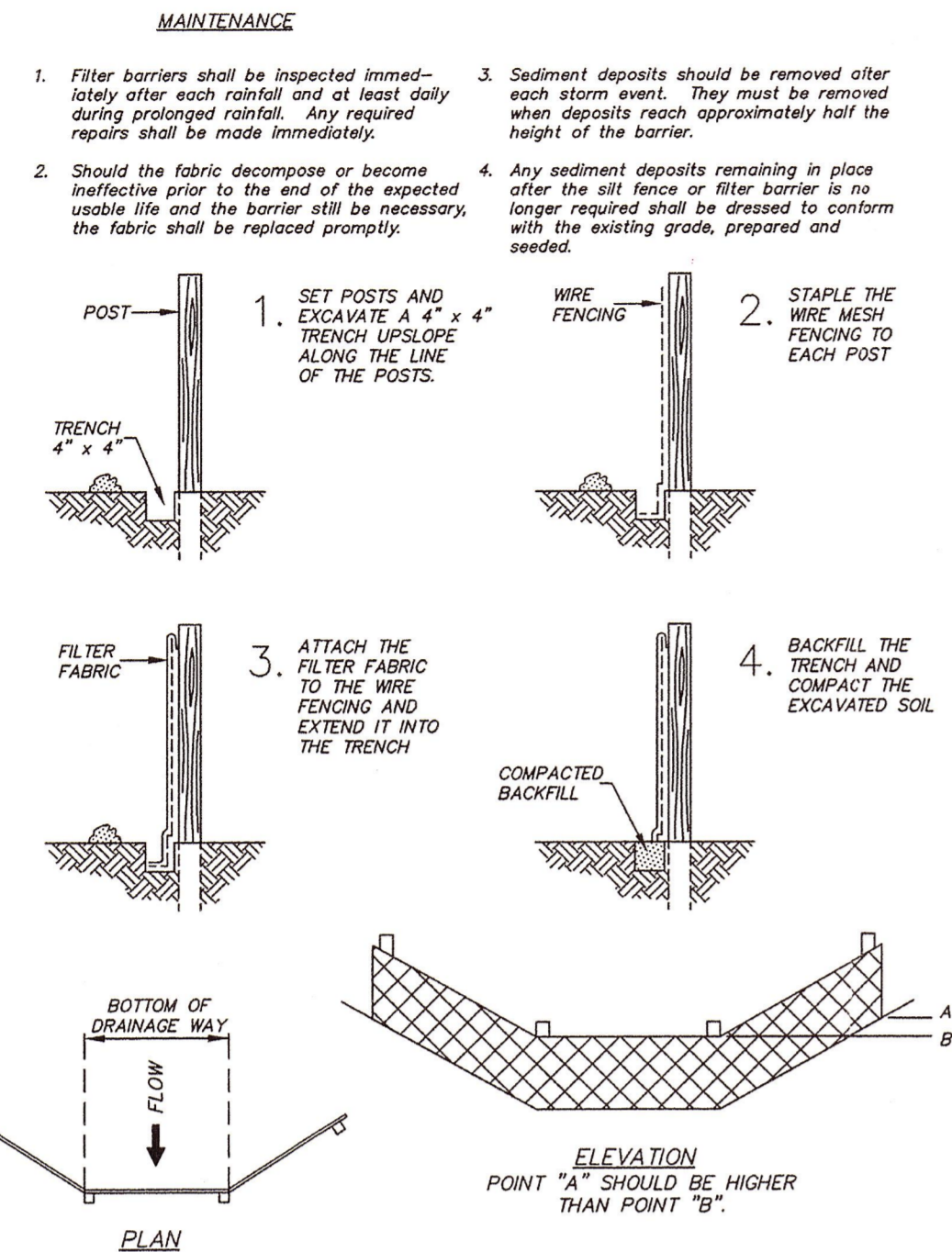


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LAKE COUNTY
ENVIRONMENTAL ENGINEERING



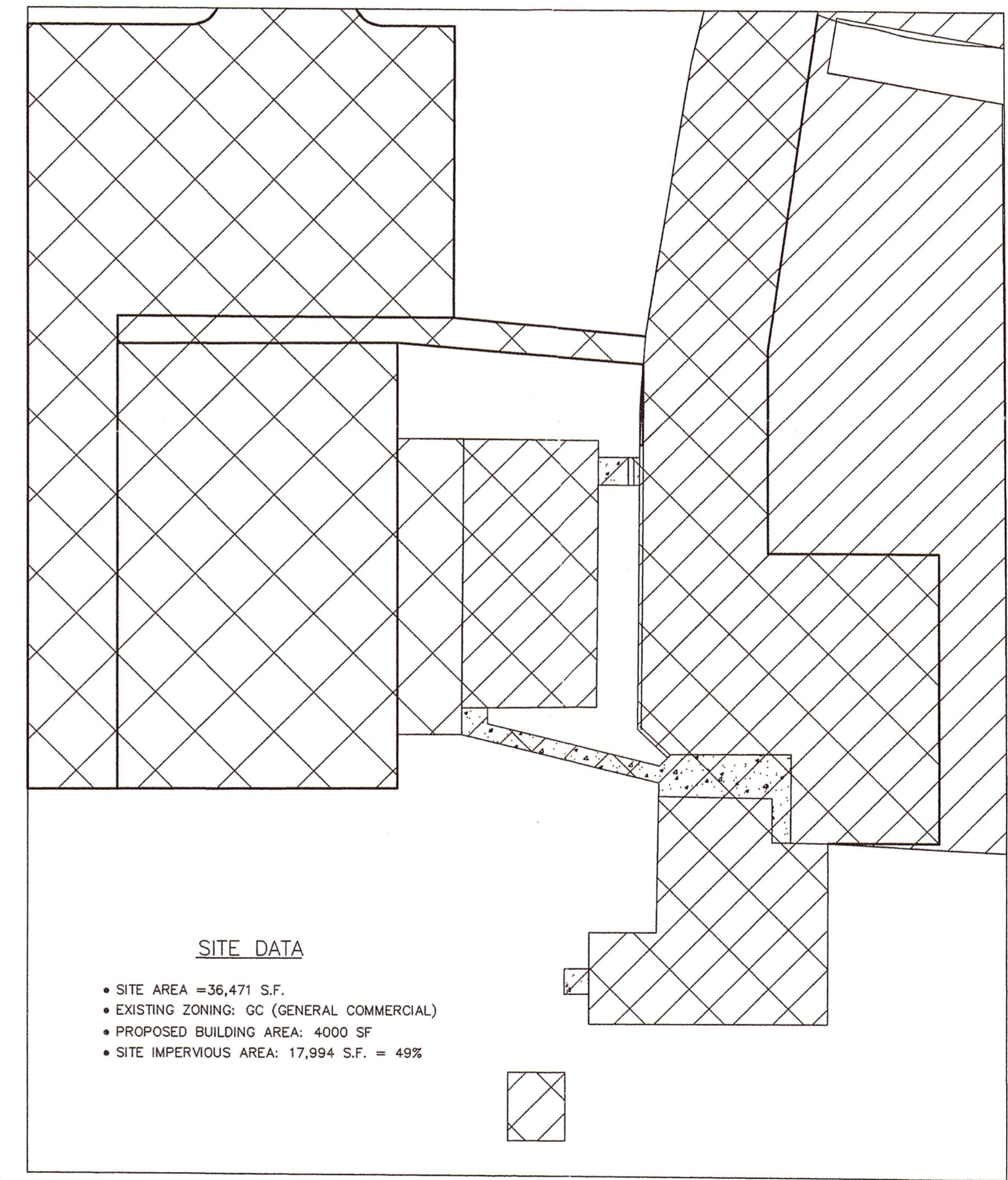
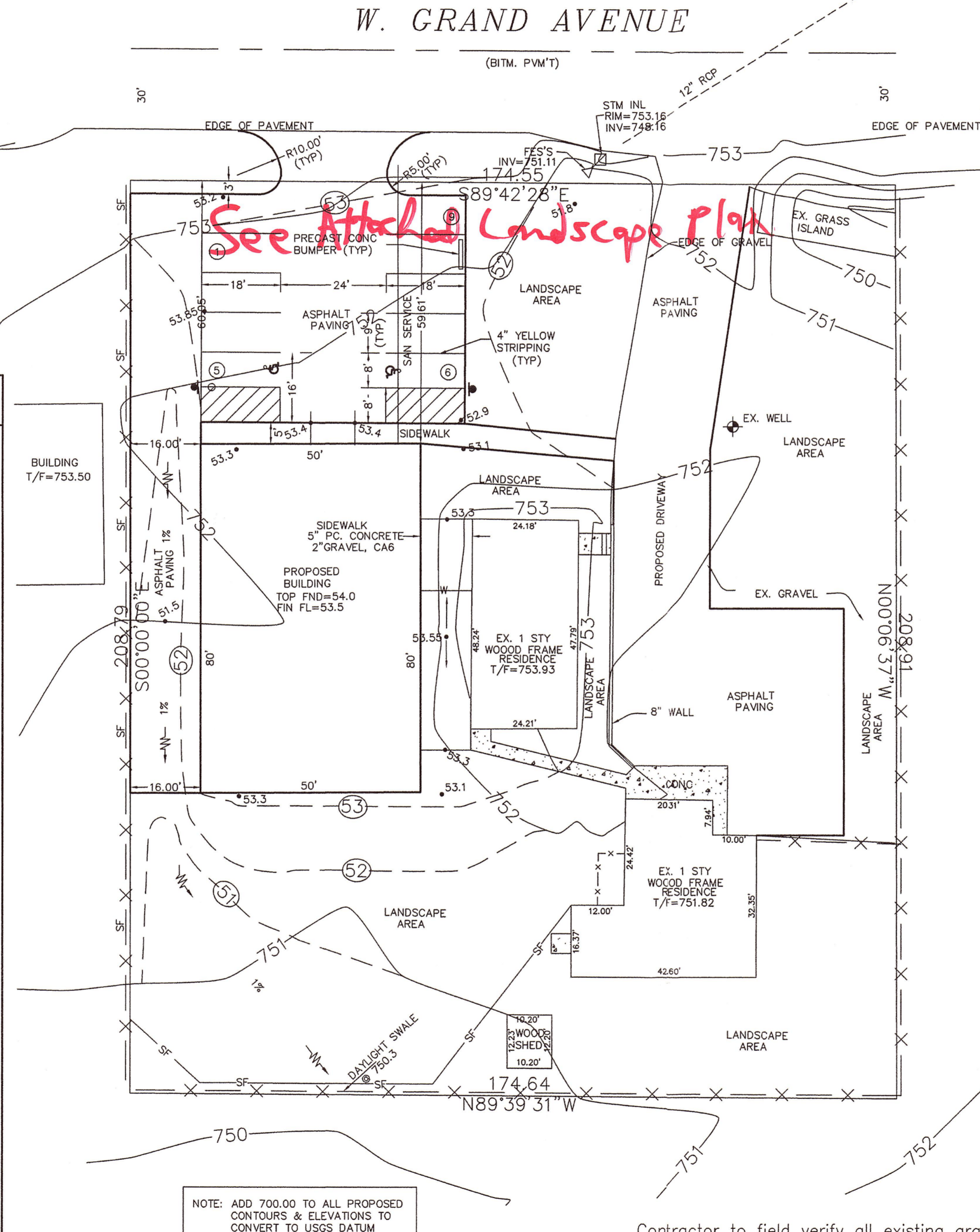
- PROJECT SPECIFICATIONS**
- ALL SITE DEVELOPMENT SHALL BE IN ACCORDANCE WITH LAKE COUNTY ORDINANCES AND REGULATIONS AND APPLICABLE SECTIONS OF:
 - ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (SSRBC), LATEST EDITION.
 - "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (SSWSMC), LATEST EDITION.
 - ILLINOIS DEPARTMENT OF TRANSPORTATION "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION.
 - "ILLINOIS URBAN MANUAL", LATEST EDITION (SOIL EROSION AND SEDIMENTATION CONTROL)
 - INSTALL SILT FENCE (SF) AS SHOWN ON THE PLAN PRIOR TO ANY CONSTRUCTION ACTIVITIES & STABILIZED TEMPORARY CONSTRUCTION ENTRANCES FROM ROADWAY TO WITHIN 3 FEET OF THE FRONT OF THE PROPOSED BUILDING
 - ALL DISTURBED AREAS INCLUDING W. GRAND AVENUE ROW SHALL FINISHED WITH 4" OF FINELY DIVIDED TOPSOIL & SODDED.
 - GRANULAR TRENCH BACKFILL SHALL BE USED IN ALL UTILITY TRENCHES UNDER EXISTING OR PROPOSED PAVEMENT, CURBS, AND SIDEWALKS TO FINISHED SUBGRADE. THE GRANULAR TRENCH BACKFILL SHALL EXTEND A MINIMUM OF 2 FEET BEYOND THE BACK OF CURB, SIDEWALK OR EDGE OF PAVEMENT.
 - THE PROPOSED DRIVEWAY ENTRANCE & WORK WITHIN THE STATE ROW REQUIRES A PERMIT FROM ILLINOIS DEPARTMENT OF TRANSPORTATION PERMIT SECTION (847)705-4131
 - ALL SANITARY SEWERS SHALL BE POLYVINYL CHLORIDE PIPE (PVC) CONFORMING TO ASTM D-3034-SDR26 WITH JOINTS CONFORMING TO ASTM D-3212 AND ELASTOMETRIC GASKETS CONFORMING TO ASTM F-477.
 - GRANULAR BEDDING IS REQUIRED FOR ALL NEW SANITARY SEWER CONSTRUCTION. BEDDING IS TO BE 1/4" TO 1" IN SIZE WITH A MINIMUM THICKNESS OF 4" UNDER THE PIPE. THE BEDDING MATERIAL SHALL EXTEND 12" MINIMUM OVER THE TOP OF THE PIPE. SEE TRENCH BEDDING DETAIL.
 - ALL WATER SERVICE LINES SHALL BE TYPE K COPPER, UNLESS OTHERWISE NOTED, CONFORMING TO ASTM B-88 AND B-251.

CALL JULIE TOLL FREE 1-800-995-8123 OPERATES 24 HOURS A DAY 365 DAYS A YEAR
CALL BEFORE YOU DIG
CALL 1-800-995-8123 48 HOURS BEFORE YOU DIG

TEMPORARY SILTATION FENCE DETAIL

SOIL EROSION CONTROL

- SOIL EROSION CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED ARE TO BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
- PROPERTIES AND CHANNELS ADJOINING DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. ENERGY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS WHERE CONCENTRATED FLOW LEAVES THE SITE.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN FOURTEEN CALENDAR DAYS FOLLOWING THE END OF HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN OR EQUAL TO 3H:1V SHALL BE STABILIZED WITH SOD, MAT OR BLANKET IN COMBINATION WITH SEEDING.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED FROM EROSION WITH INLET BASKETS, FILTER FABRIC, SILT FENCE OR HAY BALES. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURES SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN.
- IF DEWATERING DEVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURES SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN.
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING AND LEAVING THE SITE.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR OVERLAND FLOW ROUTES.
- A SITE INSPECTION SHALL BE COMPLETED BY THE CONTRACTOR/OWNER AFTER EACH RAINFALL OF ONE HALF INCH OR MORE AND ONCE PER WEEK. A SOIL EROSION AND SEDIMENT CONTROL INSPECTION FORM SHALL BE COMPLETED FOR EACH INSPECTION. A COPY OF THE INSPECTION REPORT SHALL REMAIN ON THE JOB SITE.
- ALL OPEN GRATE STORM STRUCTURES SHALL HAVE PROPER EROSION CONTROL (INLET BASKETS, FILTER FABRIC, SILT FENCE, HAY BALES) INSTALLED UPON COMPLETION OF THE INSTALLATION.
- THE OWNER AND CONTRACTOR SHALL REVIEW AND SIGN THE STORMWATER POLLUTION PREVENTION PLAN FOR ALL SITES THAT DISTURB ONE OR MORE ACRES OF LAND.



- SITE DATA**
- SITE AREA = 36,471 S.F.
 - EXISTING ZONING: GC (GENERAL COMMERCIAL)
 - PROPOSED BUILDING AREA: 4000 SF
 - SITE IMPERVIOUS AREA: 17,994 S.F. = 49%

EXISTING IMPERVIOUS 11,658 S.F. PROPOSED IMPERVIOUS 17,994 S.F.

STATE OF ILLINOIS
Professional Engineer
KEIM
062/053925
1/18/06

Contractor to field verify all existing grades and utility location and elevation and report any discrepancies to the owner and the engineer IMMEDIATELY

EVEREST CONSULTING
7120 JOY MARIE, WATERFORD, WI 53185
OFFICE: (262)895-4601 FAX: (262)895-4601

PREPARED FOR:
RAPP SUPPLY
26073 W. GRAND AVENUE
INGLESIDE, IL 60041

NO.		DATE		DESCRIPTION	

RAPP SUPPLY			
SITE PLAN			
DRN/CKD BY: JK/JK	FILE: RAPP	FLD. BK./PG. XXX	SHEET NO. 1 OF 1
SCALE: 1"=20'	DATE: 07/25/06	JOB NO.:	

PLANS APPROVED AS NOTED
PERMIT NO. 06-146757-5C
BY JM 8-11-06

PERMIT NO. 06-146757-5C
SHALL BE APPLIED TO DISTURBED AREAS WITHIN 10 CALENDAR DAYS OF THE END OF FILLING