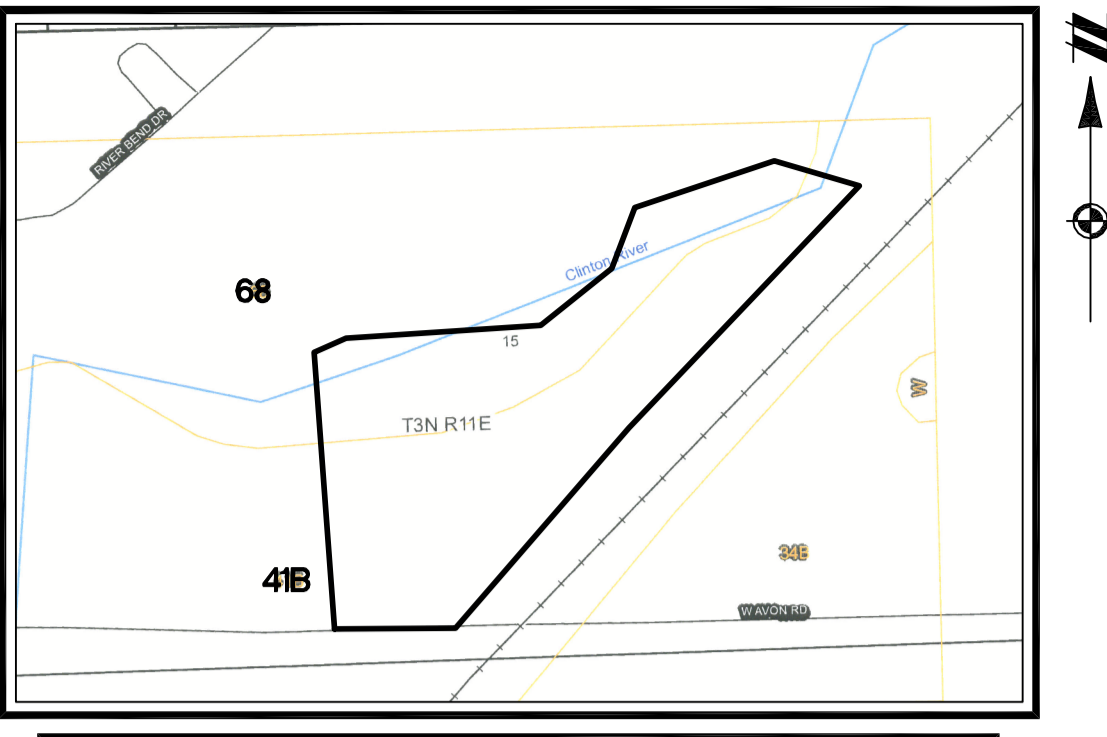


**LEGEND**

- 854.6 --- EXIST. CONTOUR
- x 854.6 EXIST. SPOT ELEVATION
- --- EXIST. STORM SEWER
- EXIST. MANHOLE
- EXIST. CATCH BASIN/INLET
- EXIST. SANITARY SEWER
- C.O. --- EXIST. CLEANOUT
- --- EXIST. WATER MAIN
- --- EXIST. HYDRANT
- --- EXIST. SHOULDER OR CURB BOX
- --- EXIST. GATE VALVE IN BOX
- --- EXIST. GATE VALVE IN MANHOLE
- --- EXIST. OVERHEAD ELECTRIC
- --- EXIST. UNDERGROUND ELECTRIC
- EXIST. LIGHT POLE
- EXIST. UTILITY POLE
- --- GUY WIRE
- --- EXIST. ELECTRIC TRANSFORMER
- --- EXIST. OVERHEAD TELEPHONE
- --- EXIST. UNDERGROUND TELEPHONE
- --- EXIST. GAS
- --- EXIST. GAS RISER
- --- EXIST. TELEPHONE RISER
- --- EXIST. CURB AND GUTTER
- --- CENTERLINE OF DITCH OR EDGE OF WATER
- --- EDGE OF WETLAND
- --- EXISTING FENCE
- --- EXIST. UTILITY UNSPECIFIED
- --- EXIST. SIGN
- --- EXIST. TREE OR BRUSH LIMIT
- --- CONTROL POINT
- --- FOUND IRON PIPE
- --- FOUND CONCRETE MONUMENT
- --- SET CONCRETE MONUMENT
- --- FOUND PK NAIL
- --- SET PK NAIL
- --- FOUND LEADED CHISEL HOLE
- --- SET LEADED CHISEL HOLE
- --- FOUND REBAR
- --- APPROX. LOCATION OF SOIL BORING
- --- APPROX. LOCATION OF MONITORING WELL
- --- APPROX. LOCATION OF PENETRATION TEST
- --- EXIST. DECIDUOUS TREE
- --- EXIST. CONIFEROUS TREE
- --- SECTION CORNER

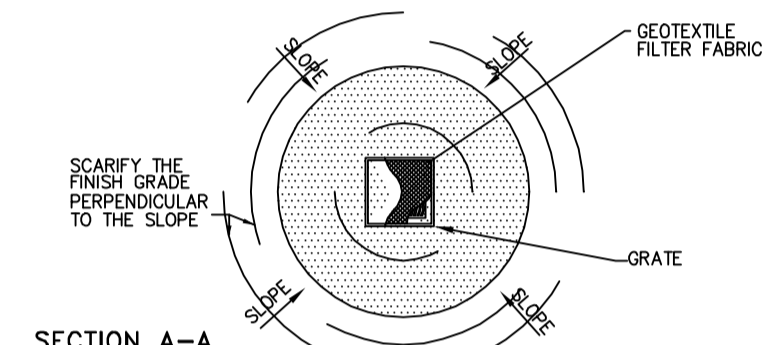


**SOIL MAP - NOT TO SCALE**

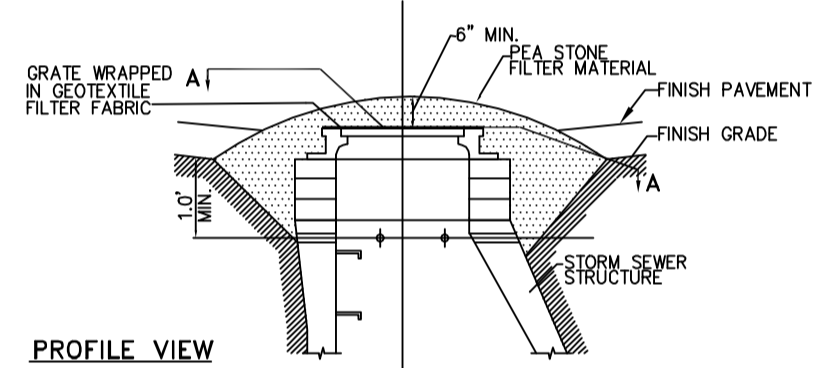
**SOIL DATA:**

41B - AQUENTS, SANDY, LOAMY, UNDULATING  
0 TO 2 PERCENT SLOPE  
VERY POORLY DRAINED  
FREQUENT PONDING

68 - COHOCTAH - FOX ASSOCIATION  
0 TO 1 PERCENT SLOPES  
POORLY DRAINED  
FREQUENT FLOODING  
FREQUENT PONDING

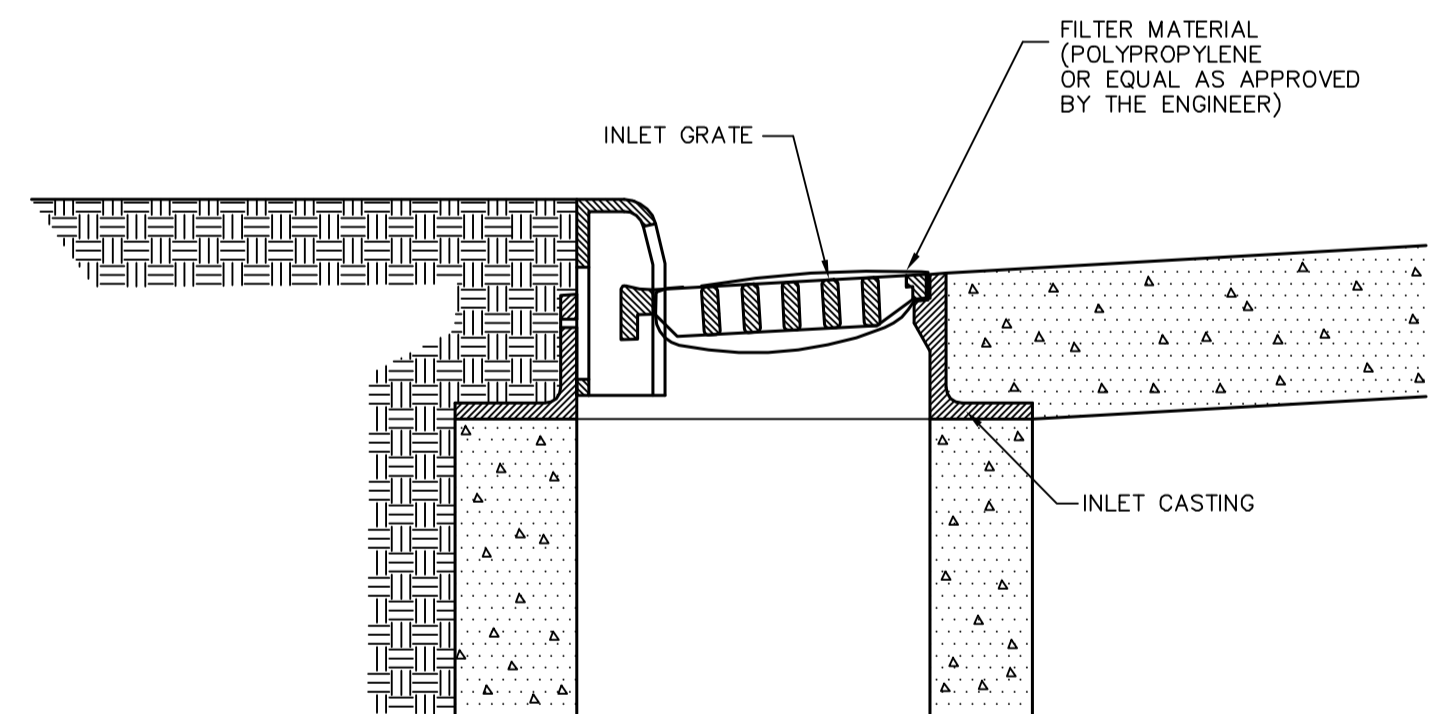


**SECTION A-A**

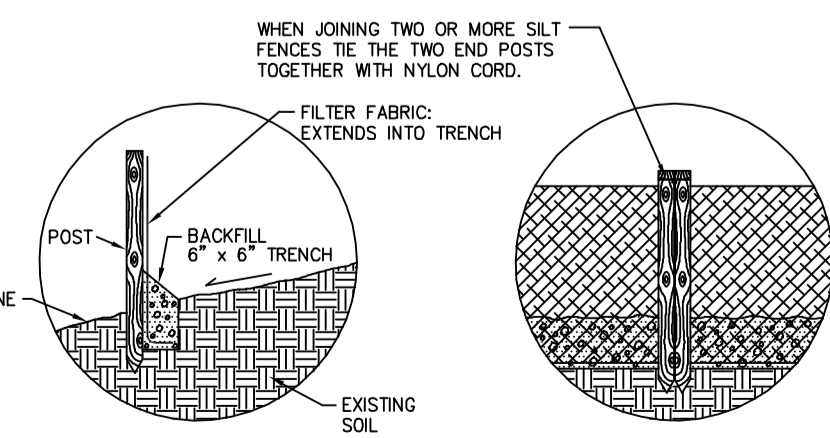


**PROFILE VIEW**

**LOW POINT INLET FILTER**  
PROPOSED STRUCTURES  
NOT TO SCALE



**INLET FILTER**  
NOT TO SCALE

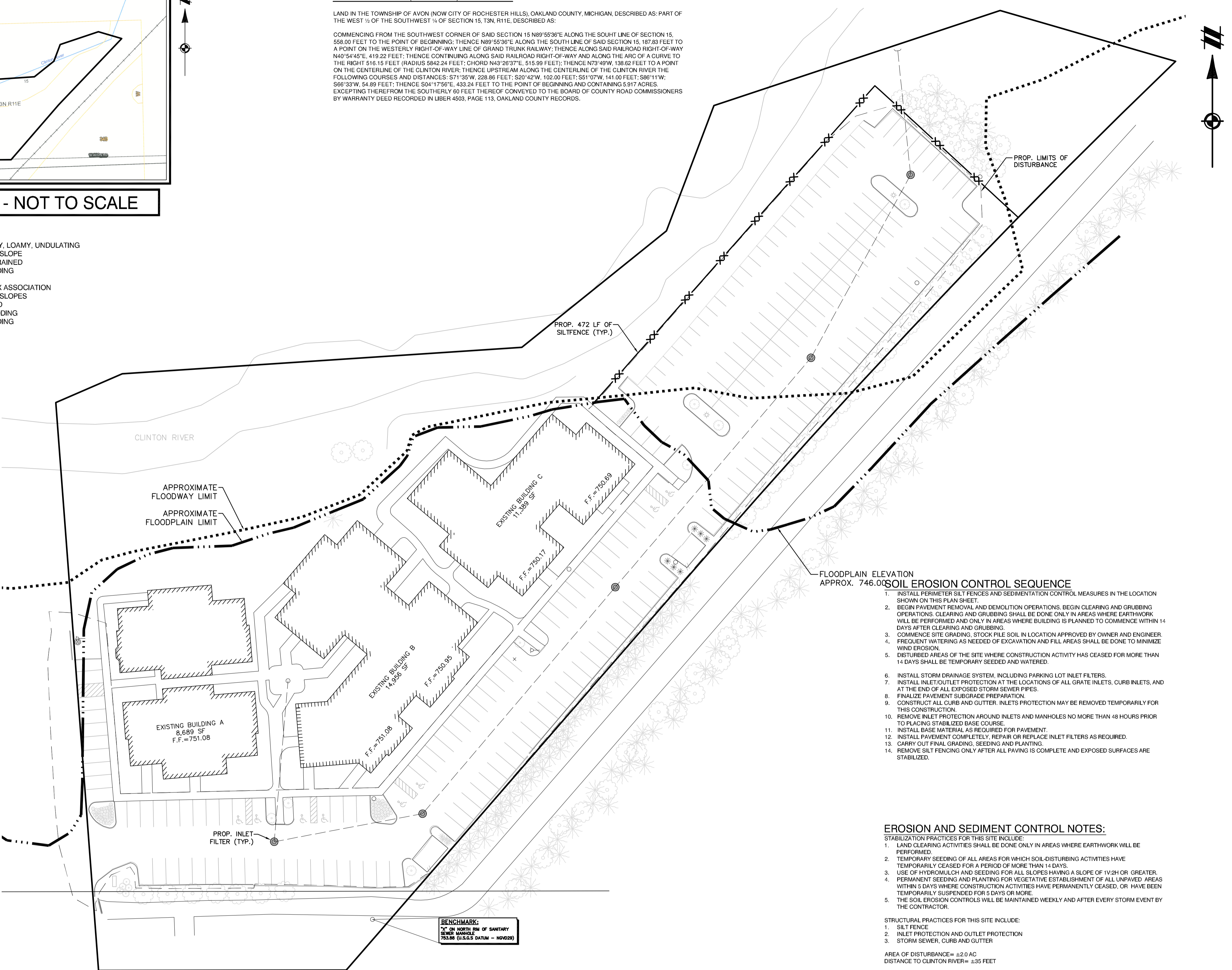


**GEOTEXTILE SILT FENCE**  
NOT TO SCALE

**LEGAL DESCRIPTION (OFFICE SITE) AS PROVIDED:**

LAND IN THE TOWNSHIP OF AVON (NOW CITY OF ROCHESTER HILLS), OAKLAND COUNTY, MICHIGAN, DESCRIBED AS: PART OF THE WEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 15, T3N, R11E, DESCRIBED AS:

COMMENCING FROM THE SOUTHWEST CORNER OF SAID SECTION 15 N89°55'36"E ALONG THE SOUTH LINE OF SECTION 15, 568.00 FEET TO THE POINT OF BEGINNING; THENCE N89°55'36"E ALONG THE SOUTH LINE OF SAID SECTION 15, 187.83 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF GRAND TRUNK RAILROAD; THENCE ALONG SAID RAILROAD RIGHT-OF-WAY N40°54'45"E, 419.22 FEET; THENCE CONTINUING ALONG SAID RAILROAD RIGHT-OF-WAY AND ALONG THE ARC OF A CURVE TO THE RIGHT 516.15 FEET (RADIUS 5642.24 FEET; CHORD N42°28'37"E, 515.99 FEET); THENCE N79°49'W, 138.62 FEET TO A POINT ON THE CENTERLINE OF THE CLINTON RIVER; THENCE UPSTREAM ALONG THE CENTERLINE OF THE CLINTON RIVER THE FOLLOWING COURSES AND DISTANCES: S71°35'W, 228.86 FEET; S20°42'W, 102.00 FEET; S51°07'W, 141.00 FEET; S86°11'W, 596°33'W, 54.89 FEET; THENCE S04°17'50"E, 433.24 FEET TO THE POINT OF BEGINNING AND CONTAINING 6.91 ACRES, EXCEPTING THEREFROM THE SOUTHERLY 60 FEET THEREOF CONVEYED TO THE BOARD OF COUNTY ROAD COMMISSIONERS BY WARRANTY DEED RECORDED IN LIBER 4503, PAGE 113, OAKLAND COUNTY RECORDS.



**SOIL EROSION CONTROL SEQUENCE**

1. INSTALL PERIMETER SILT FENCES AND SEDIMENTATION CONTROL MEASURES IN THE LOCATION SHOWN ON THIS PLAN SHEET.
2. BEGIN PAVEMENT REMOVAL AND DEMOLITION OPERATIONS. BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE BUILDING IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING.
3. COMMENCE SITE GRADING. STOCKPILE SOIL IN LOCATION APPROVED BY OWNER AND ENGINEER.
4. FREQUENT WATERING AS NEEDED OF EXCAVATION AND FILL AREAS SHALL BE DONE TO MINIMIZE WIND EROSION.
5. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
6. INSTALL STORM DRAINAGE SYSTEM, INCLUDING PARKING LOT INLET FILTERS.
7. INSTALL INLET/OUTLET PROTECTION AT THE LOCATIONS OF ALL GRATE INLETS, CURB INLETS, AND AT THE END OF ALL EXPOSED STORM SEWER PIPES.
8. FINALIZE PAVEMENT SUBGRADE PREPARATION.
9. CONSTRUCT ALL CURB AND GUTTER. INLETS PROTECTION MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION.
10. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
11. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
12. INSTALL PAVEMENT COMPLETELY. REPAIR OR REPLACE INLET FILTERS AS REQUIRED.
13. CARRY OUT FINAL GRADING, SEEDING AND PLANTING.
14. REMOVE SILT FENCING ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.

**EROSION AND SEDIMENT CONTROL NOTES:**

- STABILIZATION PRACTICES FOR THIS SITE INCLUDE:
1. LAND CLEARING ACTIVITIES SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED.
  2. TEMPORARILY SEEDED OF ALL AREAS FOR WHICH SOIL-DISTURBING ACTIVITIES HAVE TEMPORARILY CEASED FOR A PERIOD OF MORE THAN 14 DAYS.
  3. USE OF HYDROMULCH AND SEEDING FOR ALL SLOPES HAVING A SLOPE OF 1V:2H OR GREATER.
  4. PERMANENT SEEDING AND PLANTING FOR VEGETATIVE ESTABLISHMENT OF ALL UNPAVED AREAS WITHIN 5 DAYS WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED, OR HAVE BEEN TEMPORARILY SUSPENDED FOR 5 DAYS OR MORE.
  5. THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY THE CONTRACTOR.
- STRUCTURAL PRACTICES FOR THIS SITE INCLUDE:
1. SILT FENCE
  2. INLET PROTECTION AND OUTLET PROTECTION
  3. STORM SEWER, CURB AND GUTTER
- AREA OF DISTURBANCE = ±2.0 AC  
DISTANCE TO CLINTON RIVER = ±35 FEET

**MAINTENANCE NOTES:**

- N.P.D.E.S. PERMIT COMPLIANCE REQUIRES WEEKLY INSPECTIONS BY THE CONTRACTOR AS WELL AS PERIODIC INSPECTIONS WITHIN 24 HOURS AFTER A STORM EVENT THAT CREATES A DISCHARGE FROM THE SITE BY A CERTIFIED STORM WATER MANAGEMENT OPERATOR. THESE INSPECTIONS MAY RESULT IN RECOMMENDATIONS FOR ROUTINE MAINTENANCE OF THE SOIL EROSION CONTROL DEVICES, AS WELL AS FURTHER MAINTENANCE AS OUTLINED BELOW.
1. THROUGHOUT THE CONSTRUCTION PERIOD, ALL MUD/SILT TRACKED ONTO EXISTING ROADS AND ALL SURROUNDING PROPERTIES FROM THE SITE DUE TO CONSTRUCTION SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR.
  2. CATCH BASIN INLET FILTERS SHALL BE MAINTAINED CLEAN AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS WILL BE PERFORMED DAILY OR AFTER A STORM EVENT THAT CREATES A DISCHARGE FROM THE SITE. IF A FILTER HAS HOLES OR IS INUNDATED WITH SEDIMENT, THE FILTER WILL REQUIRE REPLACEMENT.
  3. CONSTRUCTION ACCESS ROAD MUST BE MAINTAINED AS NECESSARY. REPLENISH CRUSHED AGGREGATE IF PRESENT LAYER IS FILLED WITH SEDIMENT, POOLING WATER OR HAS RUTS. A NEW LAYER MAY BE ADDED IF OLD LAYERS BECOME COMPACTED.
  4. SILT FENCE IS TO BE INSPECTED DAILY BY CONTRACTOR AND WEEKLY BY CERTIFIED STORM WATER MANAGEMENT OPERATOR, IF REPAIRS OR REPLACEMENT IS NECESSARY, IT SHALL BE PERFORMED IMMEDIATELY. THE SILT FENCE SHOULD BE TRENCHED IN, BACK-FILLED, AND STAPLED OR STAKED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. MAINTENANCE INCLUDES THE REMOVAL OF BUILT-UP SEDIMENT WHEN THE SEDIMENT ACCUMULATES TO 1/2 OF THE HEIGHT OF THE FENCE. CONTRACTOR MAY HAVE TO REMOVE, REPLACE, RETRENCH, OR BACKFILL THE FENCE IF IT FAILS. IT WOULD ALSO BE NECESSARY TO RE-INSTALL IF ANY PORTION OF THE FENCING WAS DAMAGED BY CONSTRUCTION MACHINERY.
  5. SEEDING OR RESEEDING MAY BE REQUIRED IMMEDIATELY TO AREAS WHICH HAVE BEEN DAMAGED BY RUNOFF.
  6. STREET SWEEPING SHALL BE PERFORMED ON A WEEKLY BASIS, STREET SCRAPING SHALL BE PERFORMED ON A DAILY BASIS.

**SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE**

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
ROUGH GRADE / SEDIMENT CONTROL																			
TEMPORARY CONTROL MEASURES																			
STRIP & STOCKPILE SOIL																			
STORM FACILITIES																			
TEMPORARY CONSTRUCTION ROADS																			
SITE CONSTRUCTION																			
PERMANENT CONTROL STRUCTURES																			
FINISH GRADING																			
LANDSCAPING/SEED/FINAL STABILIZATION																			



THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

**NOTICE:**  
CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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8 6 6 8 5 0 4 2 0 0

SECTION 15  
TOWN 3 NORTH, RANGE 11 EAST  
CITY OF ROCHESTER HILLS  
OAKLAND COUNTY, MICHIGAN

CLIENT  
**IN RHODES MANAGEMENT, INC.**  
RIVERCREST PROFESSIONAL  
CENTER PARKING LOT  
CONSTRUCTION PLANS  
SOIL EROSION AND  
SEDIMENTATION CONTROL PLAN

DATE  
05-05-2008

9-18-08: REVISED PER CITY REVISIONS

**AH**  
SCALE 0 20 40  
1" = 40 FEET  
DR. JEK | CH. WJH  
P.M. D. PIONK  
BOOK ---  
CAD FILE: 08000352-03-SE  
JOB: 08000352  
FILE CODE: CP-0-1  
SHEET NO.  
CP-03