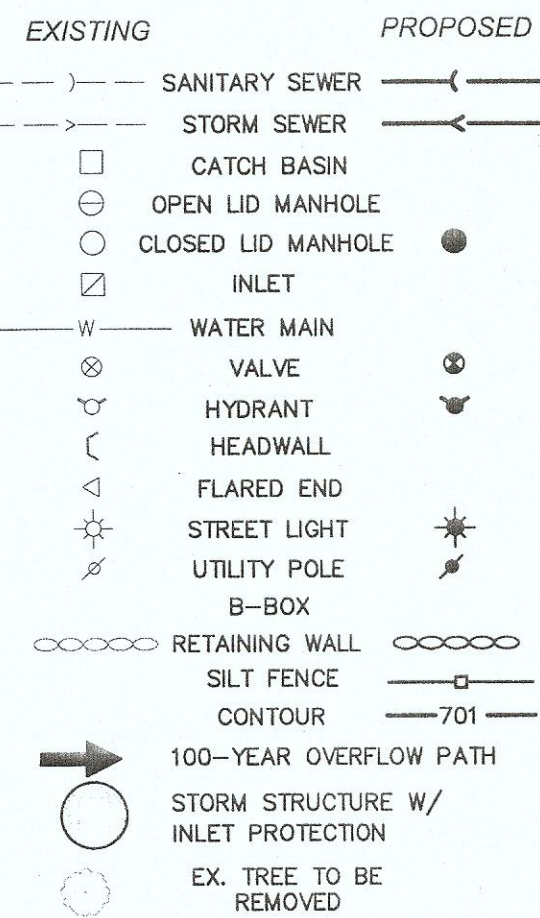


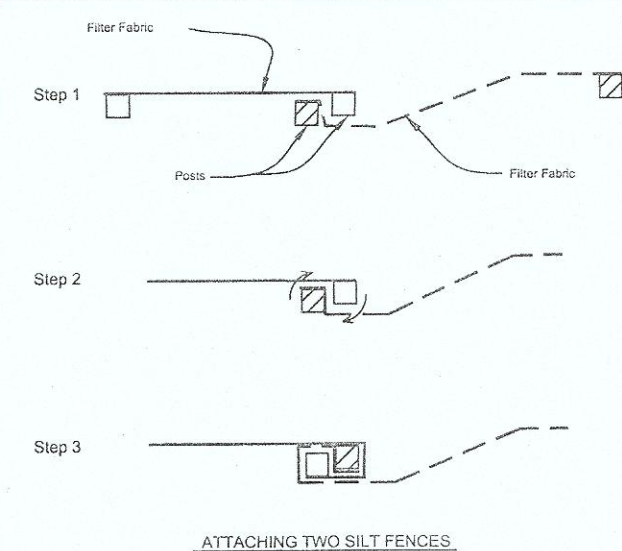
DETAILED GRADING PLAN

LOT 17 (EXCEPT THE SOUTH 50 FEET THEREOF) AND LOT 26 (EXCEPT THE SOUTH 50 FEET THEREOF) IN RANEYS ADDITION TO ORLAND, BEING A SUBDIVISION OF THE NORTH 50 RODS OF THE EAST 32 RODS OF THE EAST HALF OF THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 36 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

LEGEND



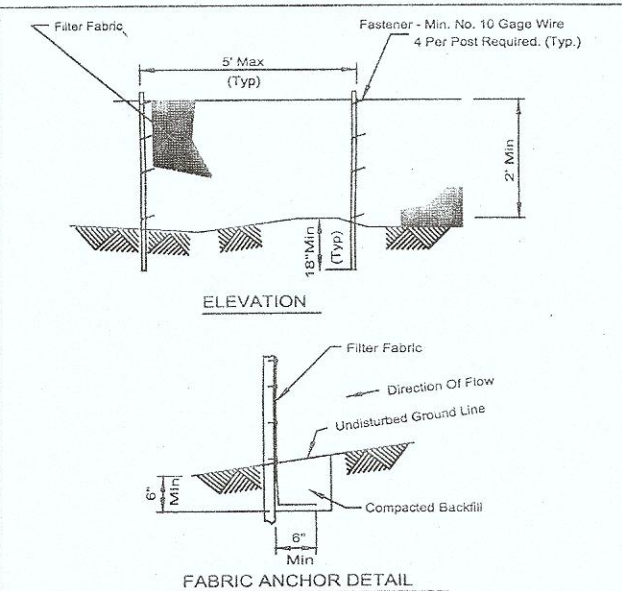
SILT FENCE PLAN



NOTES:

- Place the end post of the second fence inside the end post of the first fence.
- Place both posts at least 100' updrift in a downstream direction to create a right angle with the fabric material.
- Place both posts at a minimum of 10' into the ground and bury the top.

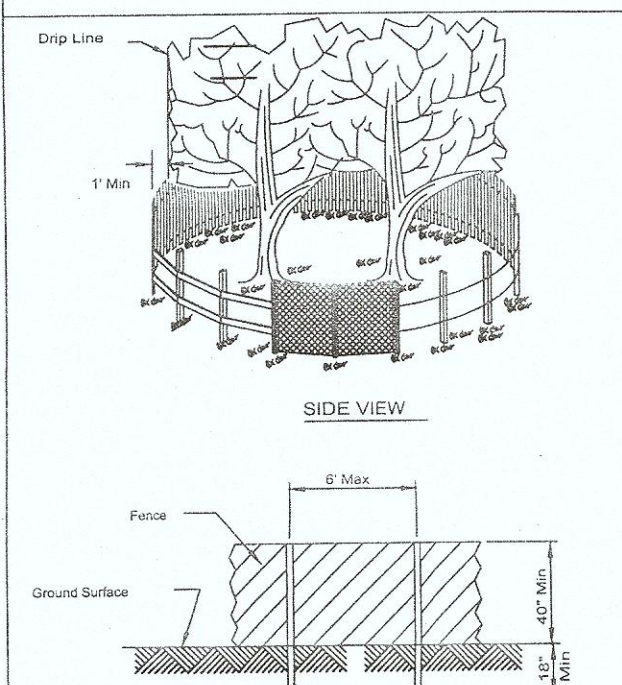
SILT FENCE PLAN



NOTES:

- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be removed throughout the construction period and removed in conjunction with the final grading and site stabilization.
- Fabric fence shall meet the requirements of material specification 022 Concrete Ties 1 or 2, Class, with equivalent opening size of 1/4" and 20' for removal and 10' for reuse.
- Fabric fence shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

TREE PROTECTION - FENCING



NOTES:

- The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 6 feet to the trunk of any tree.
- Fence posts shall be either standard steel posts or wood posts with a minimum cross-sectional area of 3.0 sq. in.
- The fence may be either 40' high or 60' high, 40' plastic web fencing or any other material as approved by the engineer/instructor.

NOTES:

WATER AND SEWER SERVICES
WATER SERVICE TO BE 1 1/2" MIN. TYPE K COPPER MIN. DEPTH 5'.

SANITARY SERVICE TO BE 6" ABS TRUSS PIPE (ABS) WHICH SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS OF ASTM D2751 FOR 6" DIA. SOLID WALL SDR 33.5 W/ A MIN. SLOPE OF 1%. THE CONTRACTOR SHALL LOCATE THE EX. SANITARY SERVICE IN THE PARKWAY AND CONNECT TO IT. IF NO SERVICE EXISTS, CONTRACTOR SHALL CONNECT TO EXISTING MAIN W/ WYE CONNECTION. A PAVEMENT PATCH SHALL BE REQUIRED FOR DISTURBED AREAS OF THE ROADWAY FROM CURB LINE TO CURB LINE.

SANITARY & WATER SERVICES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

MIN. SEPARATION OF WATER AND SANITARY SERVICES 10'

EROSION CONTROL
TO BE APPLIED PER THE ILLINOIS URBAN MANUAL, LATEST EDITION

CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION TO DETERMINE IF ANY CONFLICTS EXIST. THE DESIGN ENGINEER MUST BE NOTIFIED PRIOR TO START OF CONSTRUCTION. FOR BUILDING LINES, EASEMENTS AND OTHER RESTRICTIONS NOT SHOWN HEREON REFER TO YOUR DEED, CONTRACT, TITLE POLICY, ZONING ORDINANCE, ETC.

FOR UNDERGROUND UTILITY LOCATIONS AND PRIOR TO ANY CONSTRUCTION, CONTACT J.U.L.E., TOLL FREE 1-800-892-0123

EXISTING TOPOGRAPHIC AND BOUNDARY INFORMATION PROVIDED BY MORRISON SURVEYING, INC.

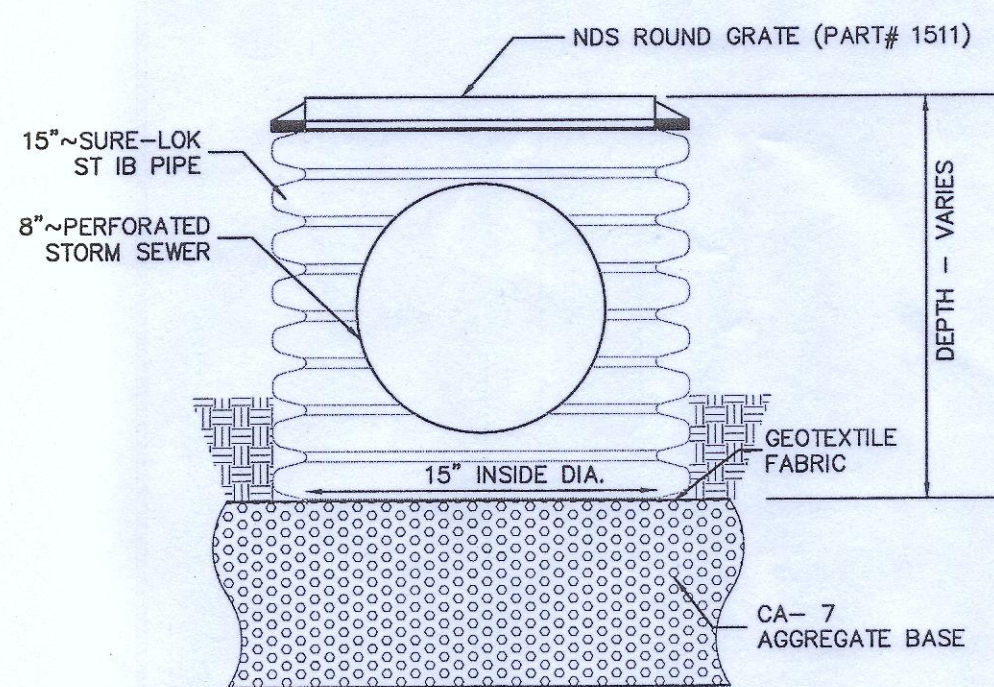
BENCHMARKS
REFERENCE BENCHMARK NG5 MONUMENT A12773 ELEV=700.0 (NAVD83)

SITE BENCHMARK
RIM ON SANITARY MANHOLE LOCATED IN THE STREET AT THE EXTENSION OF THE NORTH PROPERTY LINE
ELEV = 705.78 (NAVD83)

CURRENT ZONING: R-3

OWNER:
JOHN LANDERS
(708)302-5689

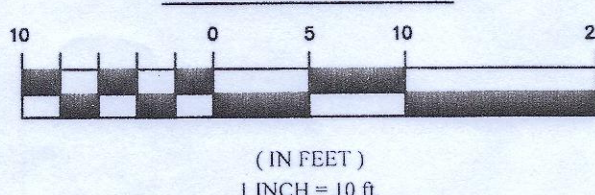
INFILTRATION STRUCTURE NOT TO SCALE



NOTE: CONTACT SCHROEDER MATERIAL INC. FOR ORDERING INFORMATION ON PARTS: (708) 448-1144



GRAPHIC SCALE



LOT COVERAGE

TOTAL LOT AREA = 10,680 SF
PRINCIPAL STRUCTURE = 2,386 SF
DRIVEWAY AREA = 725 SF
SIDEWALK AREA = 351 SF
% OF LOT COVERAGE = 32.42%

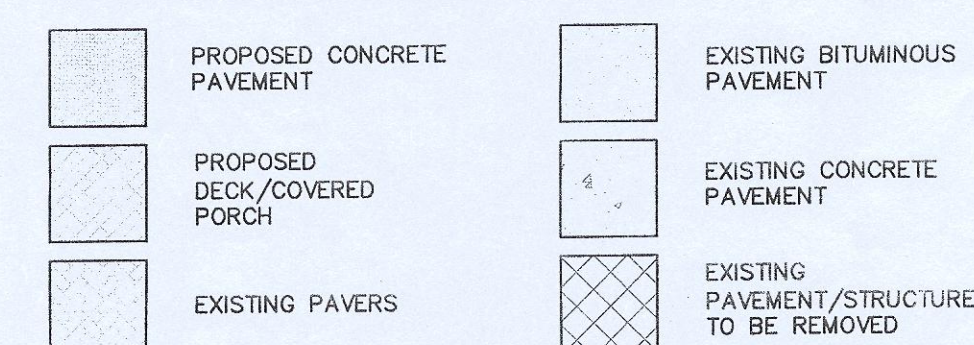
NOTE: MARTIN M. ENGINEERING, INC. MAKES NO REPRESENTATION AS TO ACCURACY OF DIMENSIONS SHOWN BELOW. FOR ACTUAL DIMENSIONS OF HOME, REFER TO FOUNDATION PLAN PREPARED BY OTHERS.

ABBREVIATIONS:

XXX.XXTC TOP OF CURB ELEVATION
XXX.XME MATCH EXISTING ELEVATION
TF TOP OF FOUNDATION
TW/BW TOP/BOTTOM OF WALL
LO LOOK OUT
F/WO FORCED WALK OUT
(XXX.XX) EXISTING SPOT GRADE
XXX.X SPOT GRADE W/ FLOW DIRECTION

NOTE: ADD 700 TO ALL PROPOSED SPOT GRADES

PAVEMENT LEGEND



ORLAND PARK GRADING PLAN

14334 RANEY'S LANE
ORLAND PARK, ILLINOIS

DETAILED GRADING PLAN

MARTIN M. Engineering, Inc.
CONSULTING AND SITE DESIGN CIVIL ENGINEERS
20123 OAKWOOD DRIVE
MOKENA, ILLINOIS 60448
VOICE: (708) 995-1323
FAX: (708) 995-1384

DRAWN BY: BMM		CHECKED BY: BMM
SCALE: 1"=10'		DATE: 05/20/15
JOB NUMBER: 15-051		SHEET: 2 OF 2
#	DATE	DESCRIPTION
1.	06/02/15	PER CLIENT REVIEW
2.	06/15/15	PER CLIENT REVIEW