

PLAT OF SURVEY & EROSION CONTROL PLAN

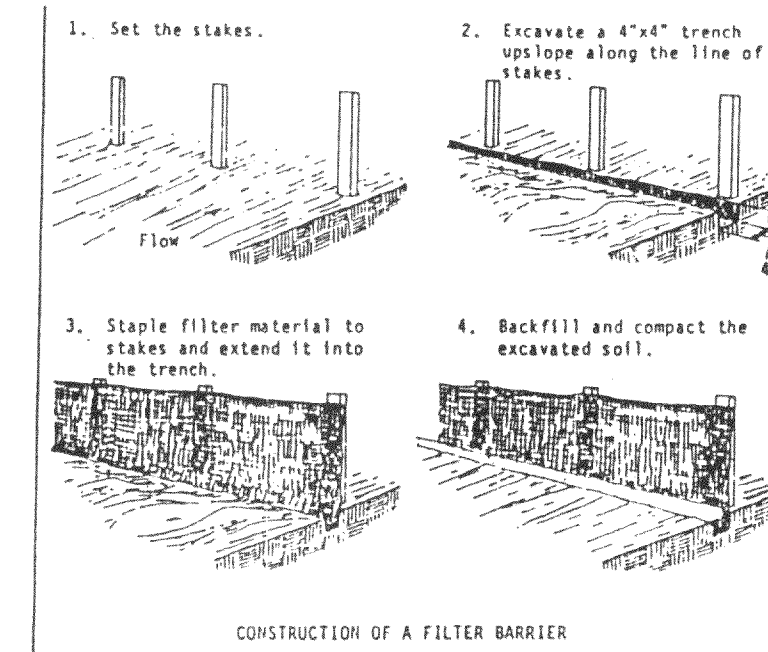
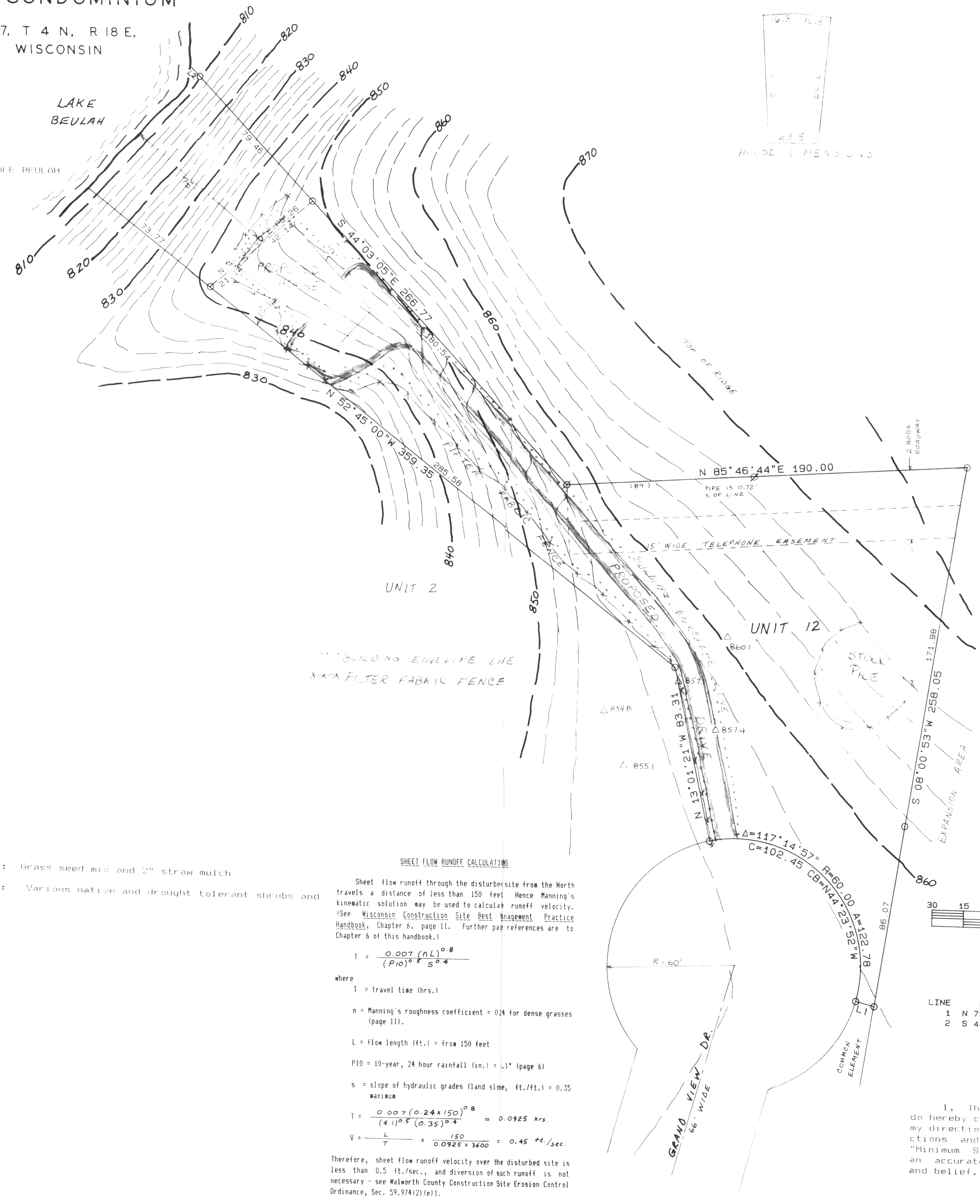
OF UNIT 12 OF HIGHLAND VIEW ESTATES CONDOMINIUM

LOCATED IN THE WEST 1/2 OF SECTION 17, T 4 N, R 18 E,
TOWN OF EAST TROY, WALWORTH COUNTY, WISCONSIN

OWNER: JOHN F. REDEL
Main St. Realty
2874 Main St. - Box 49
East Troy, WI 53120
(414) 642-7238

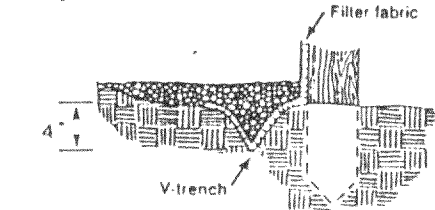
SOILS: REF, FSA, and FSC
ZONING: R-1

ELEVATIONS REFERENCED TO LAKE BEULAH
ELEVATION = 898



Source: Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant

Figure 2.



- Fabric specifications - The filter fabric shall meet the following specifications:
- Grab strength: 100 lb. minimum in any principal direction (ASTM D-1682)
 - Tensile strength: Minimum 200 psi (ASTM D-3786)
 - Equivalent opening size:
 - between 50 and 140 for soils with more than 15 percent by weight passing a No. 200 sieve
 - between 20 and 50 for soils with less than 15 percent by weight passing a No. 200 sieve
 - Water Flow Rate of 10 gal/min/ft² at 50 cm constant head as determined by multiplying permeability in sec⁻¹ as determined by ASTM D-4691 by a conversion factor of 741
 - Ultra violet radiation stability of 90%
 - Fabric with support netting shall be reinforced with an industrial polypropylene netting with a 3/4 inch spacing or equivalent. A heavy duty nylon top support cord or equivalent is required.

REVEGETATION

- Temporary: Grass seed mix and 2" straw mulch
- Permanent: Various native and drought tolerant shrubs and trees.

SHEET FLOW RUNOFF CALCULATIONS

Sheet flow runoff through the disturbed site from the North travels a distance of less than 150 feet. Hence Manning's kinematic solution may be used to calculate runoff velocity. (See Wisconsin Construction Site Best Management Practice Handbook, Chapter 6, page 11. Further page references are to Chapter 6 of this handbook.)

$$T = \frac{0.007 (nL)^{0.8}}{(P10)^{0.4} S^{0.4}}$$

where
T = travel time (hrs.)
n = Manning's roughness coefficient = 0.4 for dense grasses (page 11).
L = flow length (ft.) = from 150 feet
P10 = 10-year, 24 hour rainfall (in.) = 1.1" (page 6)
S = slope of hydraulic grades (land slope, ft./ft.) = 0.35
RAI = 0.35

$$T = \frac{0.007 (0.4 \times 150)^{0.8}}{(1.1)^{0.4} (0.35)^{0.4}} = 0.0925 \text{ hrs.}$$

$$V = \frac{L}{T} = \frac{150}{0.0925 \times 3600} = 0.45 \text{ ft./sec.}$$

Therefore, sheet flow runoff velocity over the disturbed site is less than 0.5 ft./sec., and diversion of such runoff is not necessary - see Walworth County Construction Site Erosion Control Ordinance, Sec. 59.974(2)(e)).

- PROPOSED CONSTRUCTION SCHEDULE
- Clearing and grading:
 - Begin building:
 - Surface road:
 - Temporary seed and mulch in place:
 - Install permanent landscape:

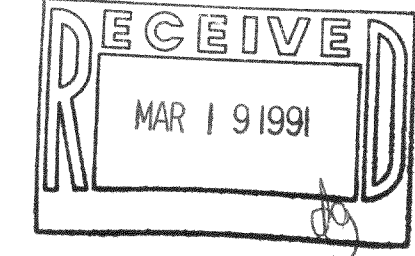
Proposed first floor elevation: 849.00

Proposed first floor elevation shall be approved by the building inspector, the owner, and the contractor.

- Approved: _____ Building Inspector
Approved: _____ Owner
Approved: _____ Contractor

LINE	BEARING	DISTANCE
1	N 75°46'24"W	8.96
2	S 44°03'05"E	6.77

Note: This survey plat is not certified unless signed and sealed in red ink.



I, Thomas P.A. Jensen, Wisconsin Registered Land Surveyor, do hereby certify that this survey was performed by me, or under my direction, in full compliance with the owner's/agent's instructions and Chapter A-E 7 of the Wisconsin Administrative Code "Minimum Standards For Property Surveys"; and that this map is an accurate representation thereof to the best of my knowledge and belief.

Thomas P.A. Jensen R.L.S-1084
Jensen Surveying & Mapping S.C.

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Mapping date: 8-24-90

Revisions:

Scale: 1" = 30'



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(414) 723-3434

- Legend
- FOUND IRON PIPE
 - FOUND IRON ROD
 - RECORDED DIMENSION
 - SOIL BORING
 - EXISTING CULVERTS
 - PAVEMENT

Sheet no. 1 of 1 sheets.

Job reference number
1990-128

1990-128

48-726

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