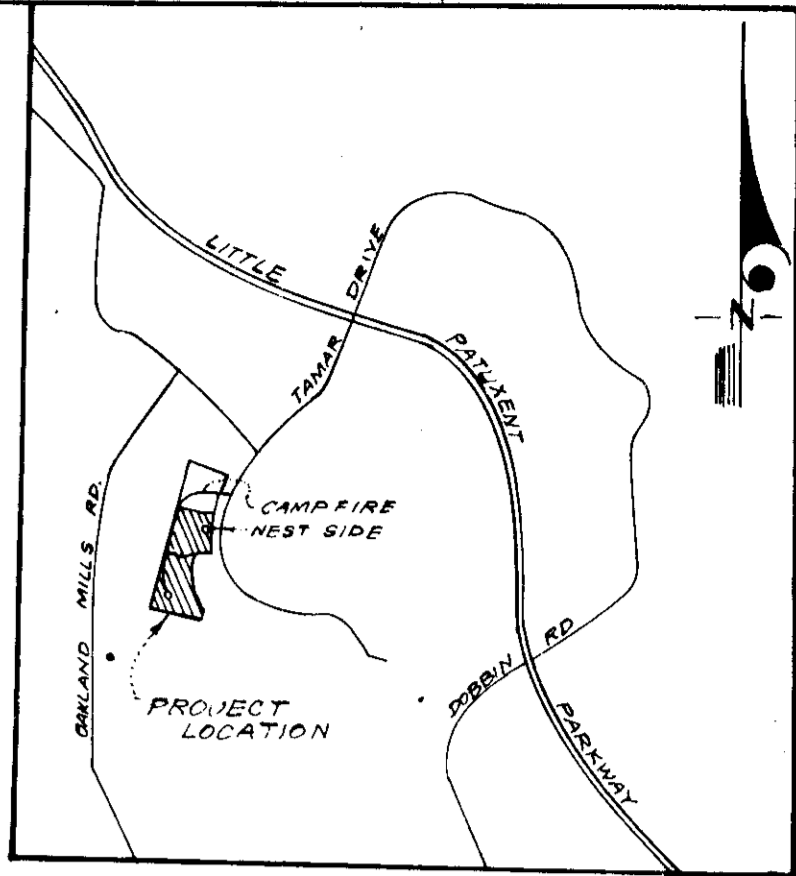


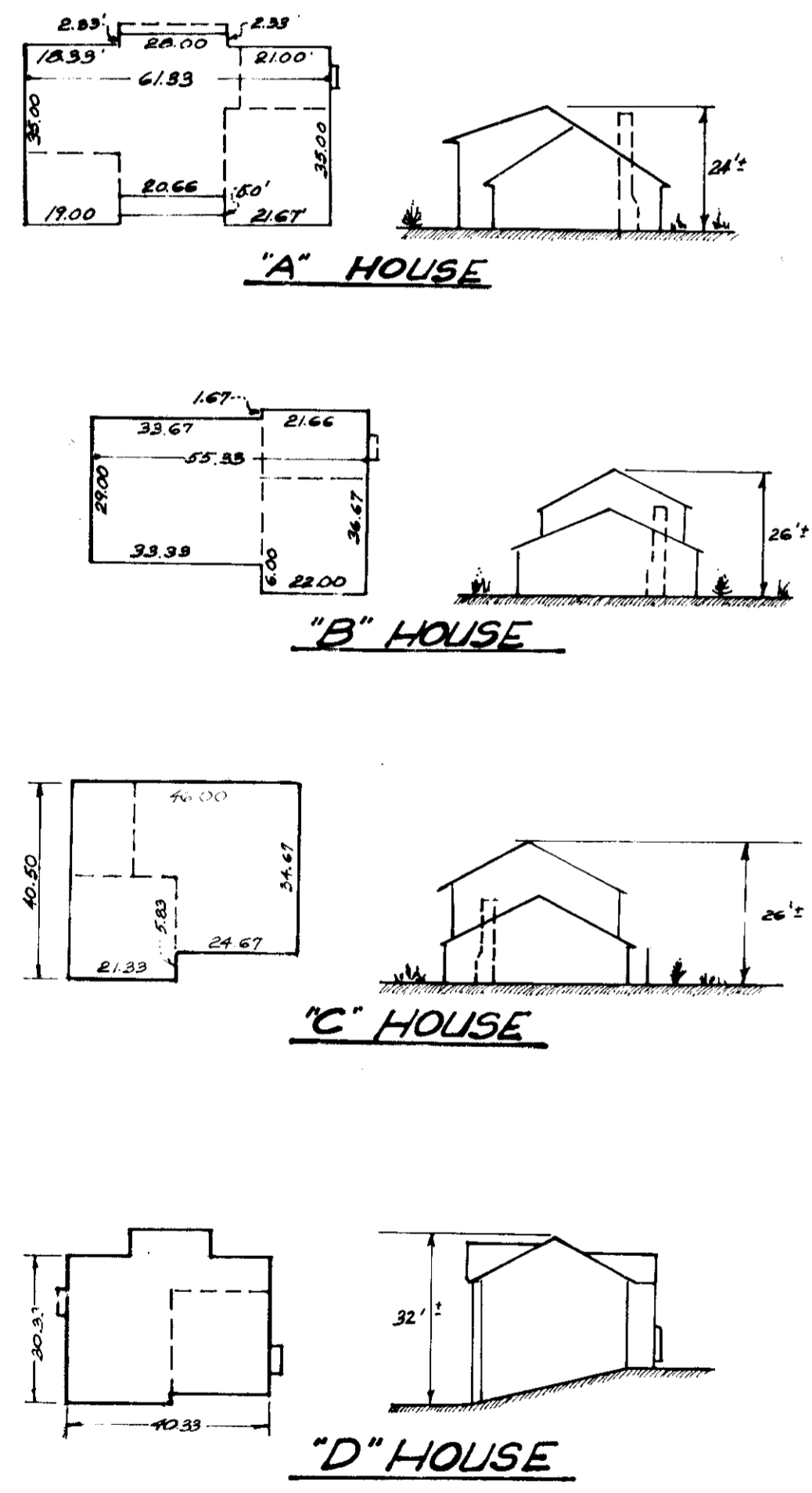
LEGEND

- 1. Contour Interval 2 Ft
- 2. Existing Contour (---)
- 3. Proposed Contour (---)
- 4. Spot Elevation (+ 80E)
- 5. Direction of Drainage (---)
- 6. Ex. Trees to be Retained (○)
- 7. Yard Requirements: Front: 20 Ft. on 50' Wide Street
30 Ft. on 60' Wide Street
Side: 7.5' (Min.)
- 8. Walk-Out Basement (W.O.B.)
- 9. 100-Year Flood Plain Elevation (F-20)
- 10. Timber Retaining Wall (---)

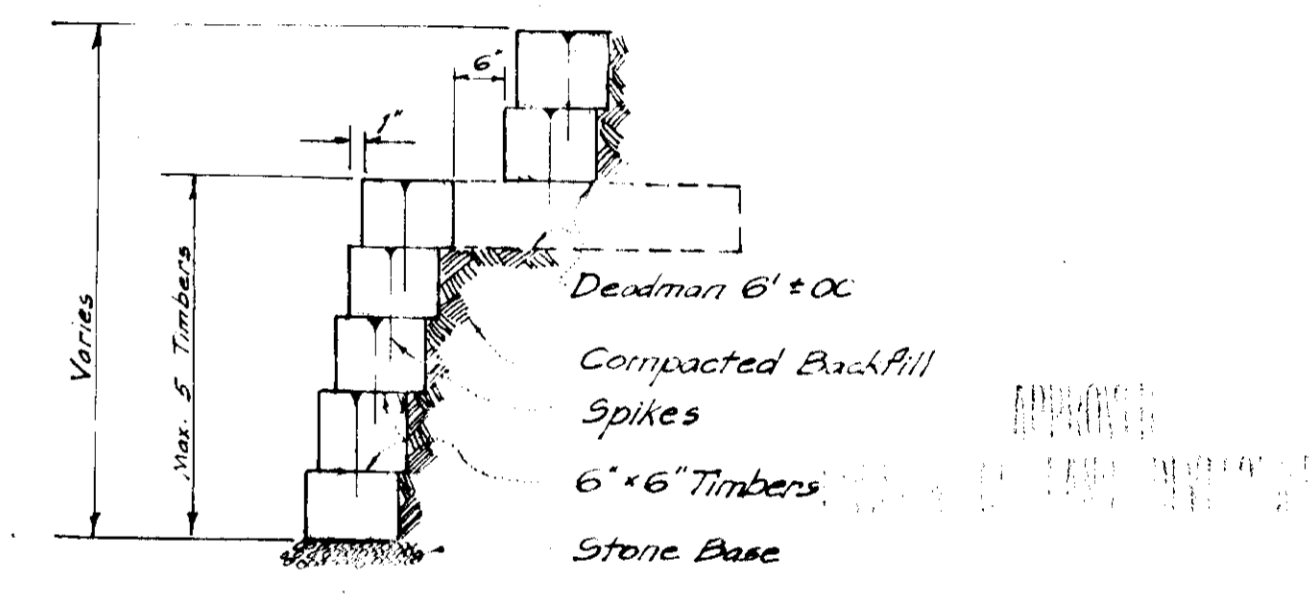
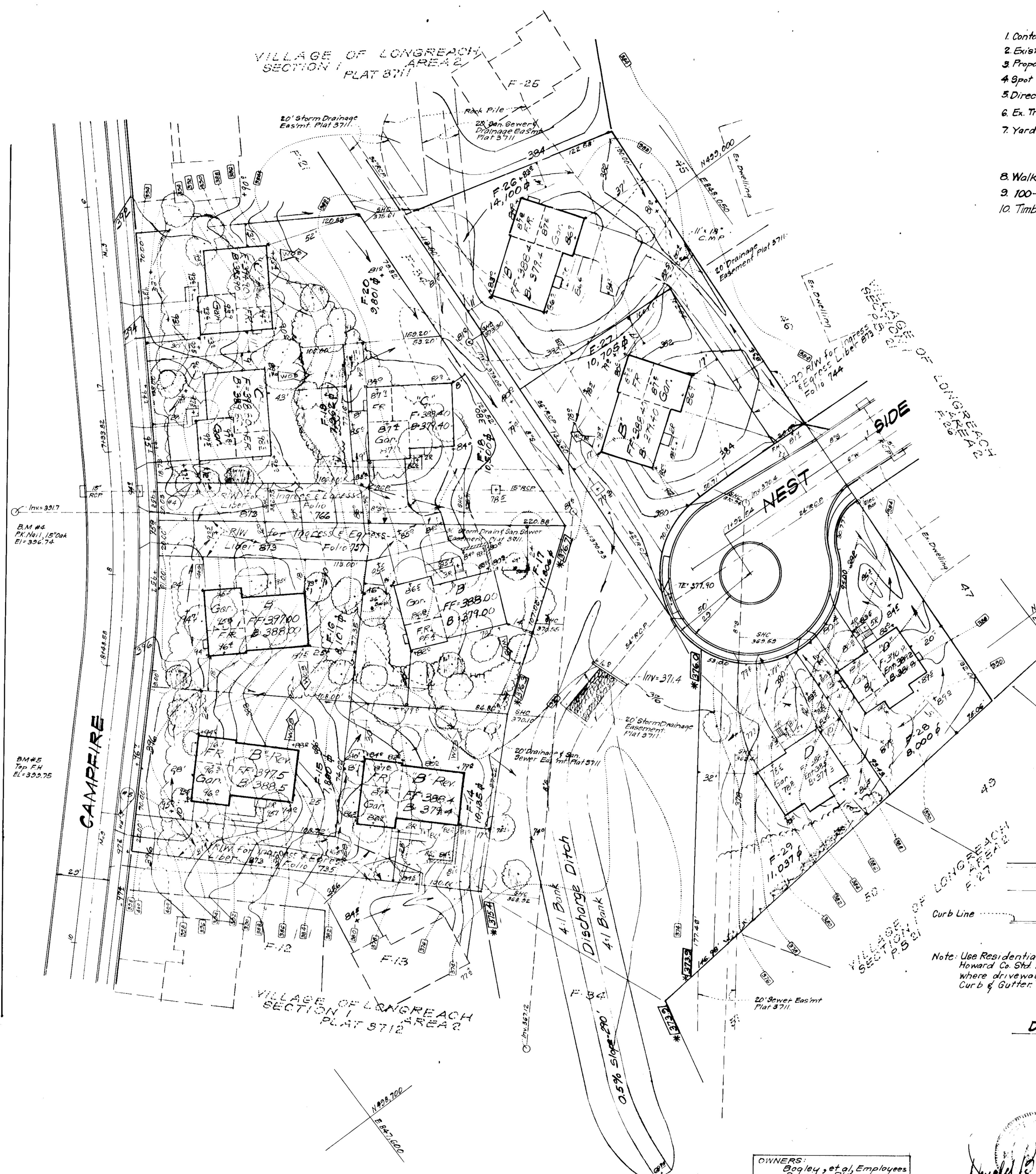


GENERAL NOTES

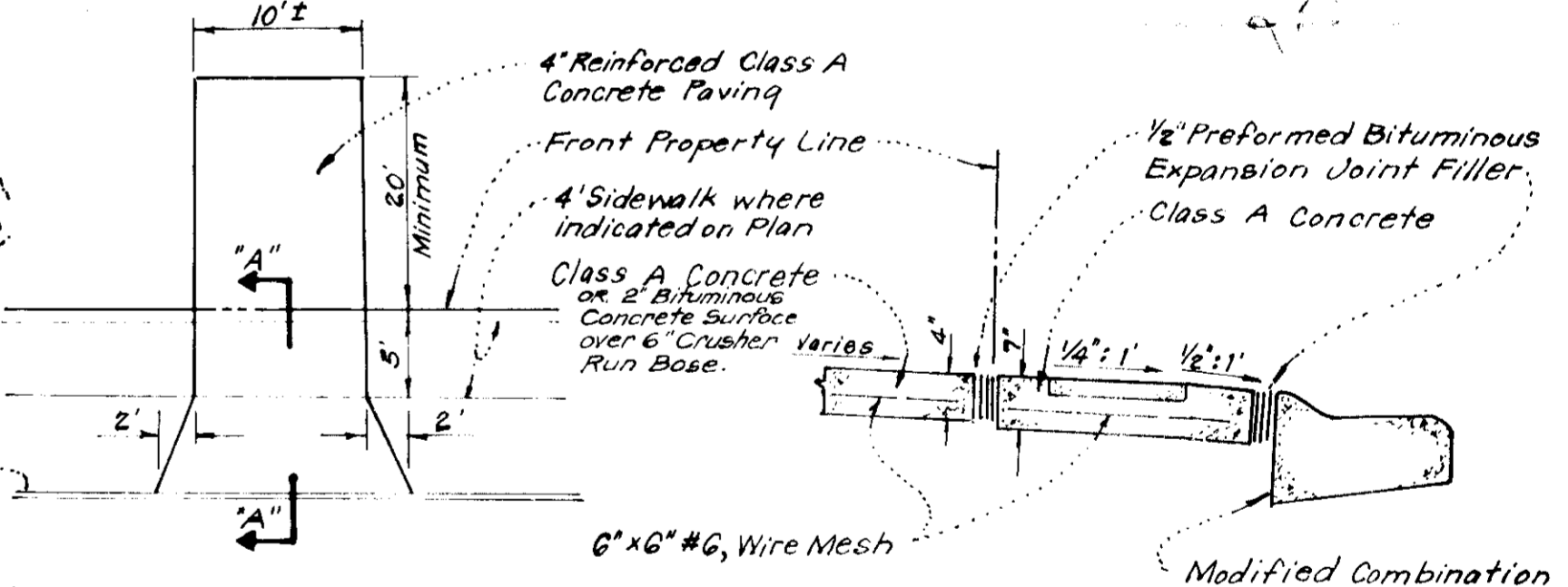
- The Land included in this Plan is zoned New Town (S.F.M.D.)
- The Lots shown on this Plan are covered by Final Development Plan Phase 89-A recorded in Plat Book 20 at Folios 146 & 147.
- All coordinates are based on Maryland State Grid System. Elevations are based on U.S. Coast and Geodetic Survey Mean Sea Level Datum of 1929.
- The Area covered in this submission is located on Tax Map No. 36.
- The Total Area included in this submission is 5.828 Acres.
- Campfire & Nest Side are public and existing.
- Any damage to county owned Rights of Way or Paving shall be corrected at the developer's expense.



1.202 ECKER 7076



TIMBER RETAINING WALL
No Scale



DRIVEWAY ABUTTING MODIFIED COMB. CURB & GUTTER
NO SCALE

Note: Use Residential Driveway Entrance Howard Co. Std. Dwg. D-34, pg. 83 except where driveway abuts Modified Comb. Curb & Gutter.

Note: Materials and Construction to be in accordance with Howard Co. Road Construction Code.

OWNERS:
Boyley, et al, Employees
Pensby, Plats
11400 Rockville Pike
Rockville, Md 20852

Donald B. Sackett

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Joyce M. Boyle 5-8-78
PLANNING DIRECTOR

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
W. O. Sackett 5-2-78
CHIEF BUREAU OF ENGINEERING

CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LICKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 583 3400	
DESIGNED <i>DR.H.</i>	SCALE 1"=30'
DRAWN <i>K.I.W.</i>	DRAWING 1 of 3
CHECKED <i>D.B.S.</i>	JOB NO.
DATE Dec. 1977	FILE NO. 1806-X

SDP-78-77C HC-345
1981-52



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Jayman Rogers 5-8-78
PLANNING DIRECTOR DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
Jayman Rogers 5-8-78
PLANNING DIRECTOR DATE

CHIEF DIVISION OF LAND DEVELOPMENT DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
B.E. Funderbagen 5-2-78
DIRECTOR DATE

W.D. Libbert 5-2-78
CHIEF BUREAU OF ENGINEERING DATE

D.P. SEWELL
L 178 F 102

OWNERS:
Booley, et al, Employees
Penshyn Bldg.
11400 Rockville Pike
Rockville, Md. 20852

David B. Sackett

13 Lots

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 4-13-78

NOTE: For Bearings and Distances of Individual Lot Lines,
See Record Plats recorded as Plats 3711 & 3712.

CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11335 LUKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED D.R.H.	SITE DEVELOPMENT PLAN LOTS F-1 THRU F-13; LOTS F-14 THRU F-20; LOTS F-26, F-27, F-35 & F-36	SCALE 1"=30'
DRAWN K.I.W.	COLUMBIA	DRAWING 2 of 5
CHECKED D.B.S.	VILLAGE OF LONGREACH SECTION 1 AREA 2 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO.
DATE Dec., 1977	FOR: CAMPBELL MARDALL CONSTRUCTION, INC. 5115 Hesperus Drive Columbia, Md. 21044	FILE NO. 1306-X

SDP-78-77c HC 345
1281 SE

Reviewed for **HOWARD** S.C.D.
and meets Technical Requirements
C. Wayne Key 4/17/78
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT.

W. E. Ford
Approved 4-19-78
Date

DEVELOPER'S CERTIFICATE
I certify that the development and/or construction
will be done in accordance with the plan of development
and plan for erosion and sediment control, and I also
authorize the construction in accordance with the plan
of development and plan for erosion and sediment control
as are deemed necessary. Deviation from this plan
will not be made unless authorized by the Howard
Soil Conservation District.

J. C. S. Hill
Signature 4-17-78
Date

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Erosion and
Sediment Control represents a practical and workable
plan based on my personal knowledge of the site
conditions and that it was prepared in accordance
with the requirements of the Howard Soil Conserva-
tion District.

G. Nelson Clark
G. Nelson Clark 3-28-78
Date

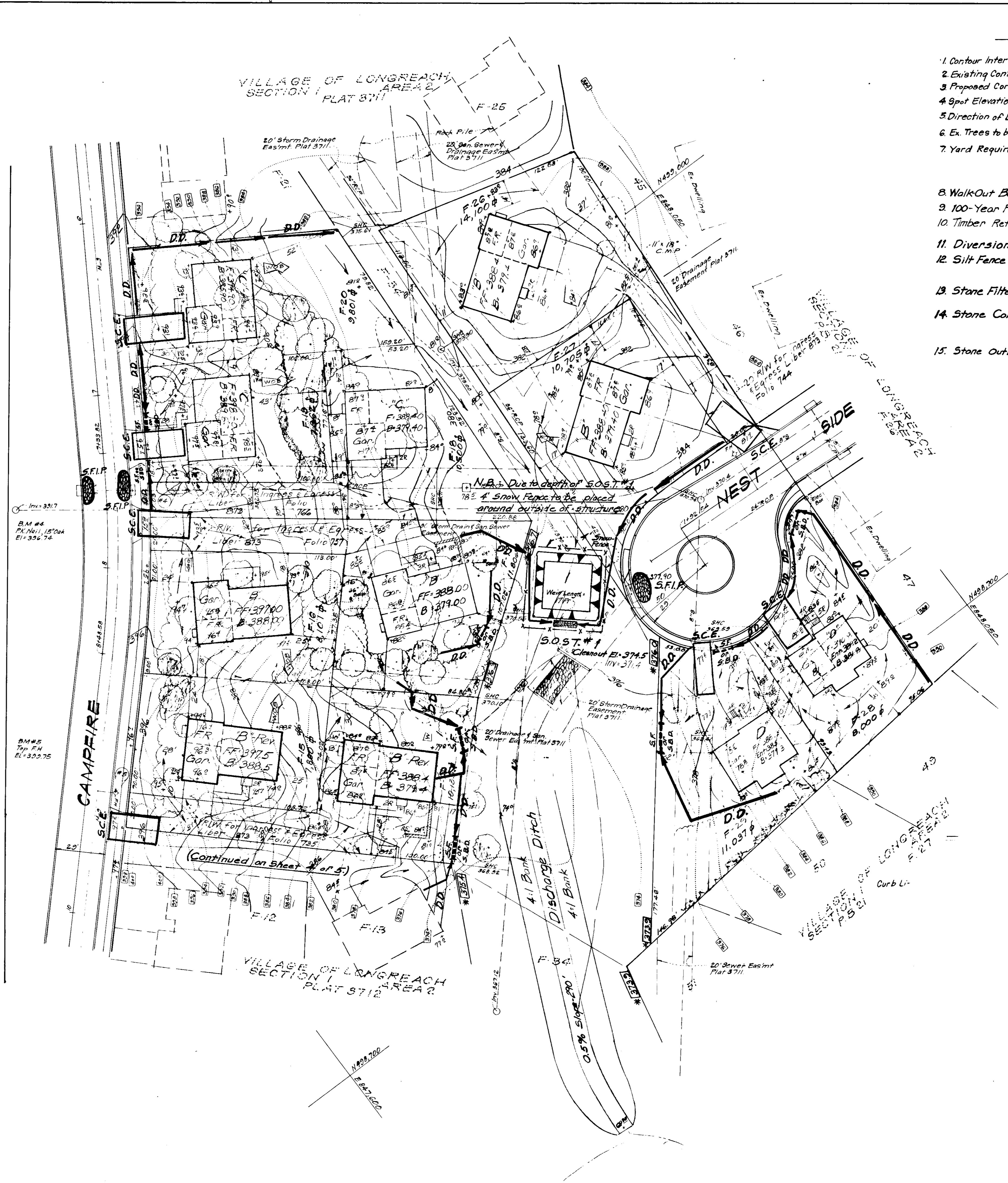


APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
J. W. Boyd 5-8-78
COUNTY HEALTH OFFICER DATE

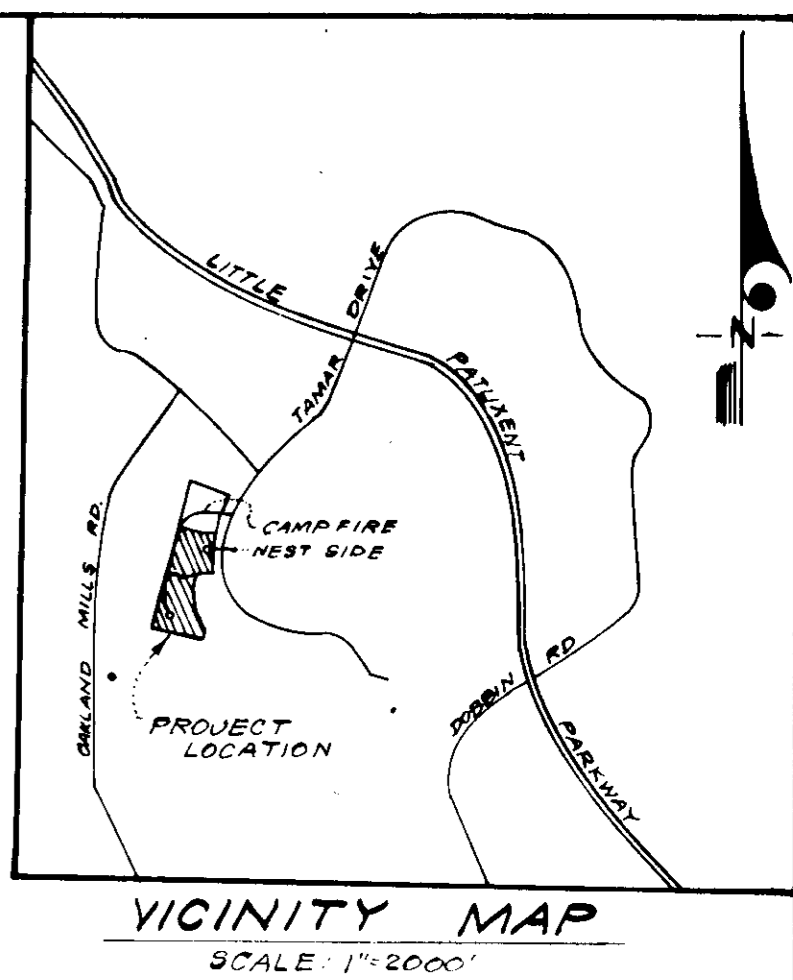
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
J. W. Boyd 5-8-78
PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
R. E. Frenkel 5-2-78
DIRECTOR DATE

W. O. Ford 5-2-78
CHIEF BUREAU OF ENGINEERING DATE



- LEGEND**
- Contour Interval 2 FT.
 - Existing Contour (---)
 - Proposed Contour (—)
 - Spot Elevation (+ 80E)
 - Direction of Drainage (→)
 - Ex. Trees to be Retained (○)
 - Yard Requirements: Front: 20 Ft. on 50' Wide Street
30 Ft. on 60' Wide Street
Side: 7.5' (Min.)
 - Walk-Out Basement (W.O.B.)
 - 100-Year Flood Plain Elevation * [B736]
 - Timber Retaining Wall (---)
 - Diversion Dike (D.D.)
 - Silt Fence or Straw Bale Dike (S.F./S.B.D.)
 - Stone Filter Inlet Protection (S.F.I.P.)
 - Stone Construction Entrance (S.C.E.)
 - Stone Outlet Sediment Trap (S.O.S.T.)



SEDIMENT TRAP TABLE AND DIMENSIONS

TYPE	PAGE No.	DWG No.	L	W	D	Bottom Elev.	D.A. Acres	REQUIRED VOLUME	PROVIDED VOLUME
S.O.S.T.#1	2007	27-3	28	28	50	371.50	2.75	4,950 c.f.	5,120 c.f.

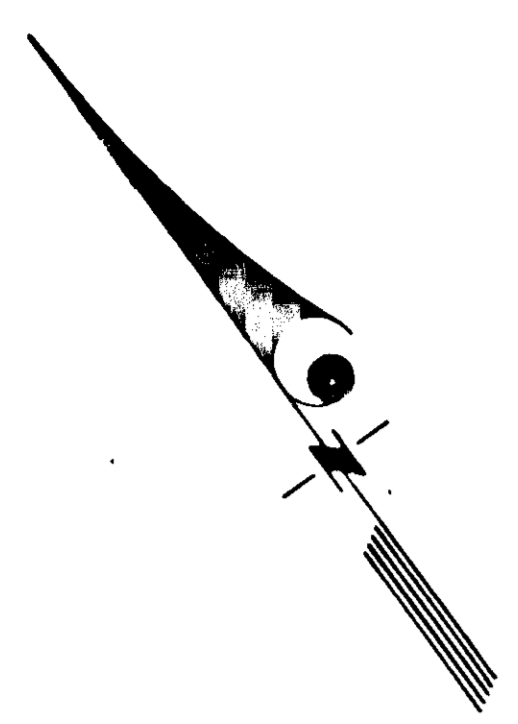
APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 4-13-78

CLARK • FINEFROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400

DESIGNED **DR.H.** SCALE 1"=30'
DRAWN **DR.H.** DRAWING 3 of 5
CHECKED **R.J.S.** JOB NO.
DATE **Mar, 1978** FILE NO.
FOR: CAMPRELL MARDALL CONSTRUCTION, INC.
8115 Hesperus Drive
Columbia, Md. 21044

11 Lots

SDP-78-77c HC 345
1806-X



BM #5
Top of F.H.
EL. 899.75

Reviewed for... HOWARD S.C.D.
Name
and meets Technical Requirements
C. Wagner 4/19/78
Signature Date
U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED
FOR SOIL EROSION AND SEDIMENT
CONTROL BY THE HOWARD SOIL
CONSERVATION DISTRICT.

Was EARP
Approved

4-19-78
Date

DEVELOPER'S CERTIFICATE
I certify that all development and/or construction
will be done according to the plan of development
and plan for Erosion and Sediment Control, and I also
authorize periodic on-site inspection by the Howard
Soil Conservation District or their authorized agents
as are deemed necessary. Deviation from this plan
will not be made unless authorized by the Howard
Soil Conservation District.

K.C. S. J.M.
Signature

4-17-78
Date

ENGINEER'S CERTIFICATE
I hereby certify that the plan for Erosion and
Sediment Control represents a practical and workable
plan, based on a reasonable knowledge of the site
conditions and that it was prepared in accordance
with the requirements of the Howard Soil Conserva-
tion District.

L. Nelson Clark
G. Nelson Clark

3-28-78
Date



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
Joyce Bond 5-2-78
COUNTY HEALTH OFFICER DATE
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR DATE
CHIEF DIVISION OF LAND DEVELOPMENT DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
R.E. Brudenbergs 5/2/78
DIRECTOR DATE
W.D. Liberty 5-2-78
CHIEF BUREAU OF ENGINEERING DATE



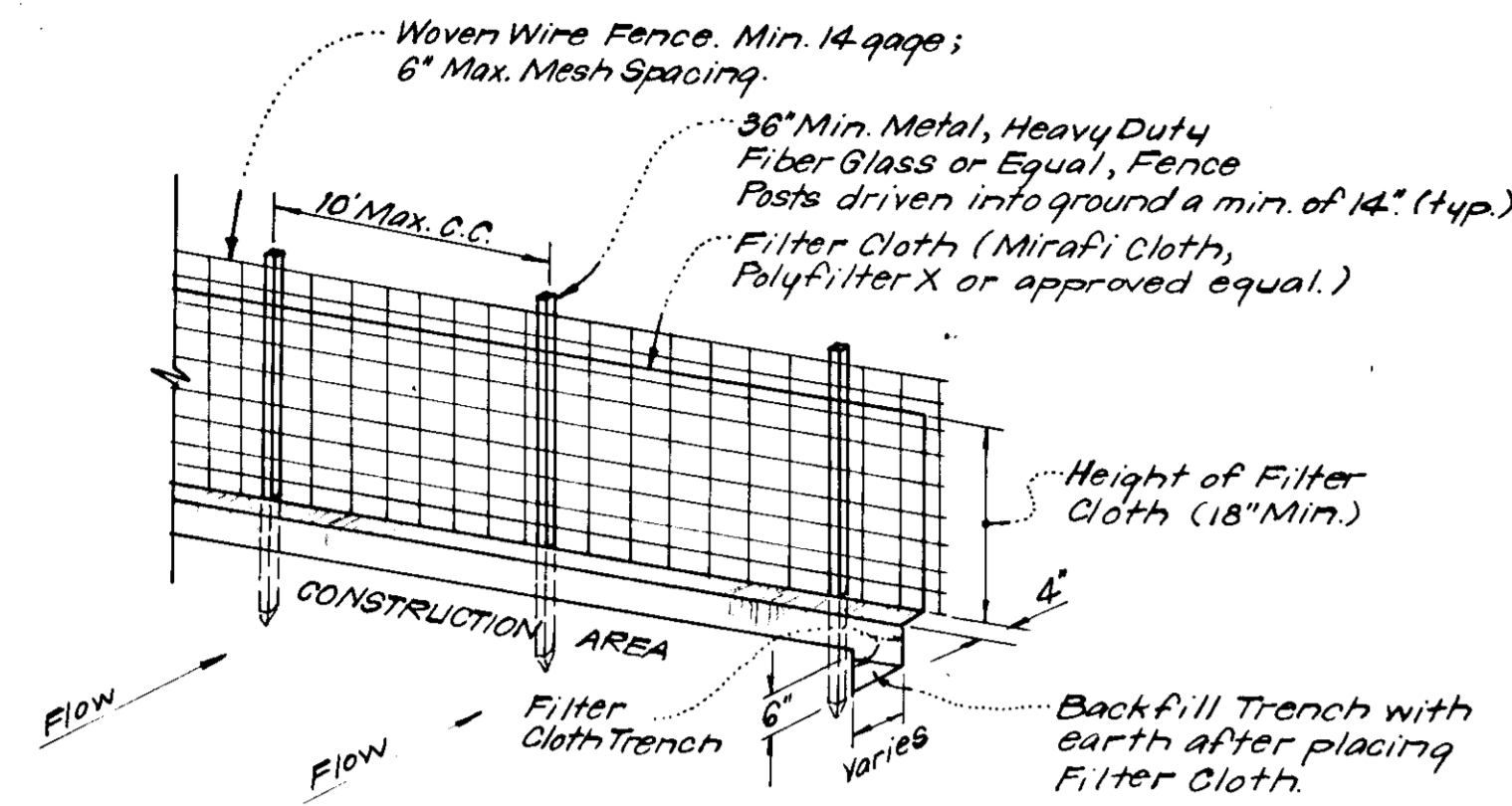
D. F. SEWELL
E. 178 F. 102

APPROVED
DIVISION OF LAND DEVELOPMENT
HOWARD COUNTY, MARYLAND
DATE 4-19-78

CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400		
DESIGNED DRH	SEDIMENT & EROSION CONTROL PLAN LOTS F-1 THRU F-13; LOTS F-14 THRU F-20; LOTS F-21, F-22, F-23 & F-24	SCALE 1"=30'
DRAWN DRH	COLUMBIA	DRAWING 4 of 5
CHECKED R.J.S.	VILLAGE OF LONGREACH SECTION 1 AREA 2 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 1
DATE Mar. 1978	FOR: CAMPBELL MARDALL CONSTRUCTION, INC. 5115 Hesperus Drive Columbia, Md. 21044	FILE NO. 1281-5E
SDP-78-77c HC-345 1306-X		

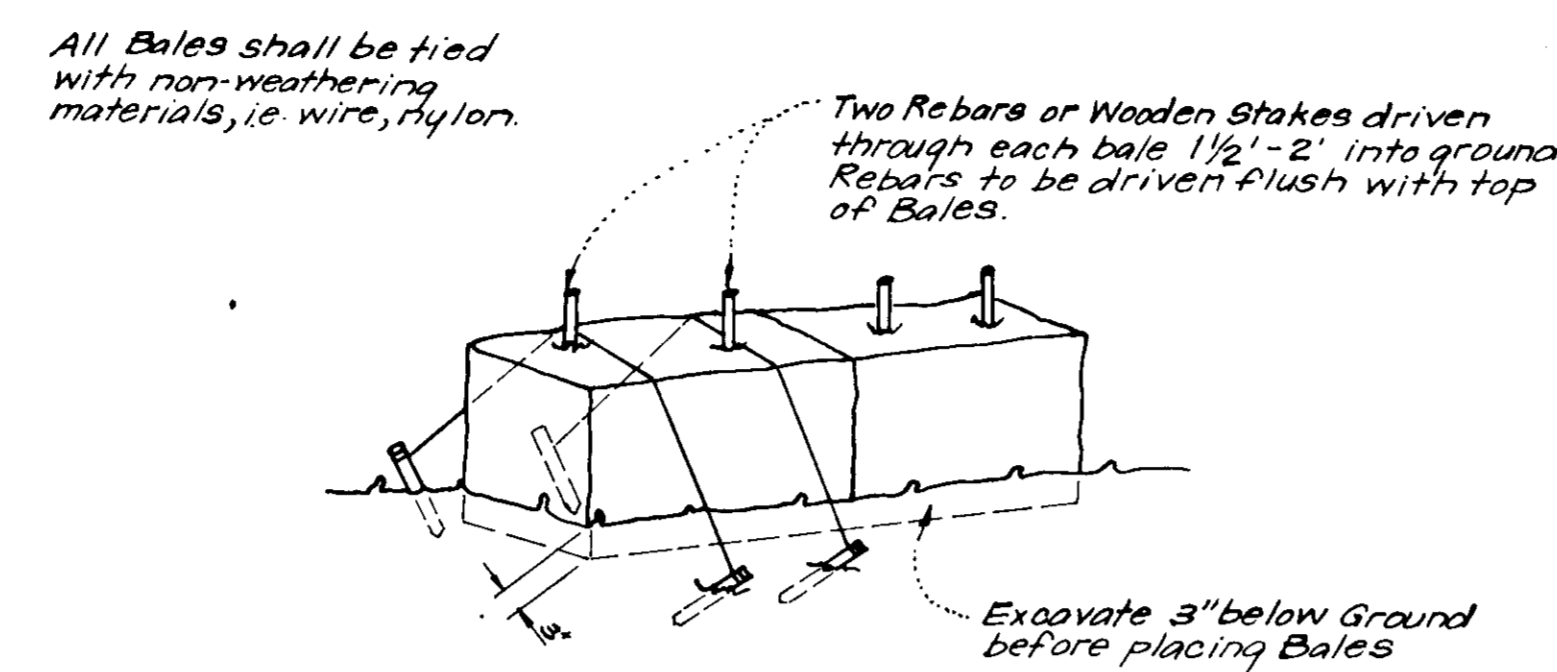
GENERAL NOTES

- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See Note #5 for stabilization except that the seed mixture will be annual rye applied at a rate of 14 lbs/1000 sq. ft.
- Notify the Bureau of Inspections and Permits at least 24 hours before starting any work. (Phone: (301)-992-2435)
- All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
- Stabilization of Disturbed Ground to be done as soon after construction as possible.
- All Grading shall be treated in accordance with the following Specifications:
 - Seed - certified 85% germination applied at the rate of 3 lbs/1000 sq. ft. mixture - 40% Kentucky Blue, 20% Chewing Fescue, 20% Kentucky 31, and 20% annual rye.
 - Fertilizer - 10-10-10 applied at the rate of 23 lbs/1000 sq. ft. Ground Agricultural Lime or Dolomitic Lime applied at the rate of 46 lbs/1000 sq. ft.
 - Mulch - Weed Free grain straw applied at the rate of 70 lbs/1000 sq. ft. Mulch shall be secured to the ground by any approved method i.e. asphalt tacks, chemical binders, wood chips, etc.
- All Structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On Site Inspection and Maintenance of all Sediment Control Measures including clean out of sediment traps and dikes, and proper establishment of all planned vegetative measures will be the responsibility of the Developer or his representative on the site, on a continuing day to day basis.
- Protection of stabilized area from sediment runoff shall be provided by the use of an approved Sediment Control Device, i.e. straw bale, diversion dike, etc.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Stabilized Construction Entrances shall be constructed at all construction entrances.
- SITE ANALYSIS:**
 - Total Area = 5.828 Acres
 - Area to be Roofed = 0.915 Acres
 - Area to be Paved = 0.553 Acres
 - Area to be Seeded = 1.526 Acres
 - Area Undisturbed = 2.616 Acres
- CONSTRUCTION SEQUENCE:**
 - Install Sediment & Erosion Control Devices and stabilize Diversion Dikes.
 - Excavate for Foundations and Rough Grade.
 - Erect Structures, Drive Ways and Sidewalks.
 - Final Grade and stabilize in accordance with Note #5.
- If Houses are to be constructed on an "As Sold" basis at random, Single Lot Sediment Control, as shown on this sheet, shall be implemented.
- It will be the Developer's responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- Total Amount of Straw Bales or Silt Fence shown = 258 L.F.
- Grading Permit shall be obtained prior to installation of Sediment Control or grading.



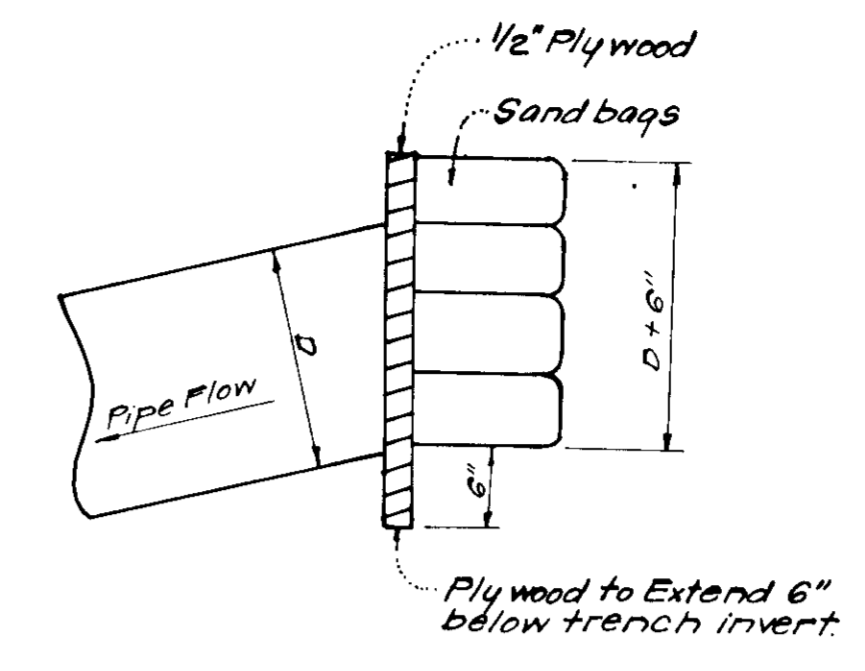
NOTES:
 1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
 2. Filter Cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24".

SILT FENCE DETAIL (S.F.)
 No Scale

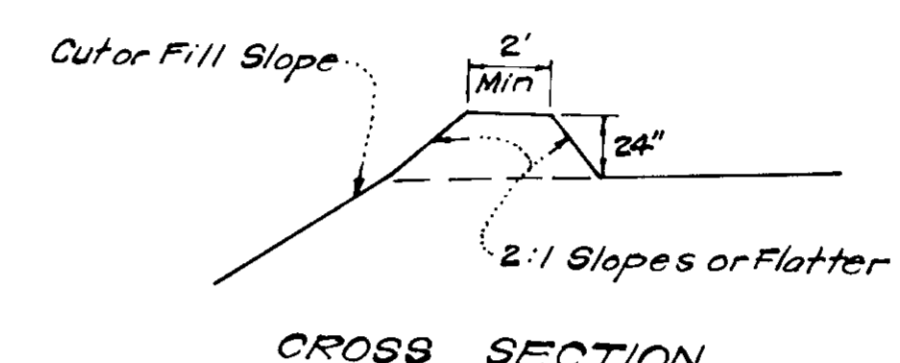


NOTE:
 1. In lieu of the use of rebar each Straw Bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

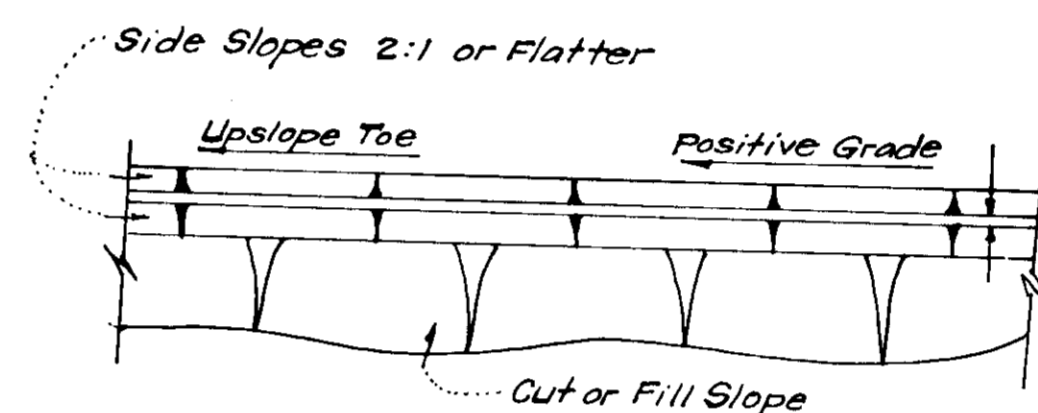
TYPICAL STRAW BALE DETAIL (S.B.D.)
 No Scale



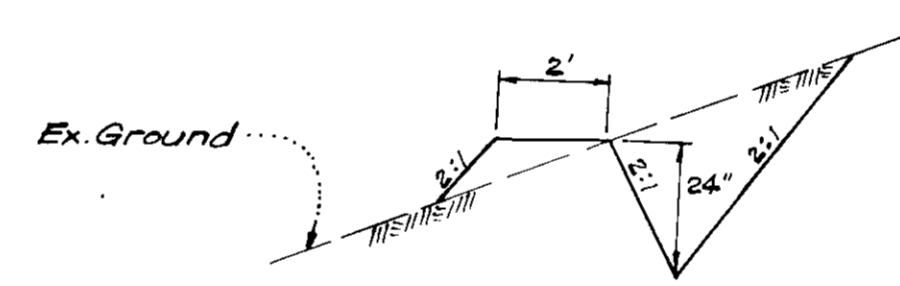
PIPE BLOCKING DETAIL
 No Scale



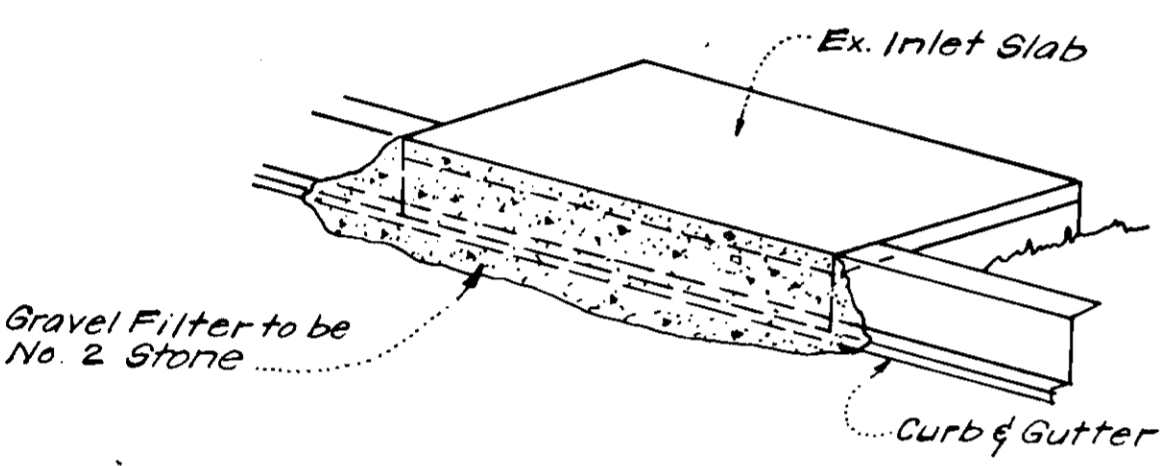
CROSS SECTION



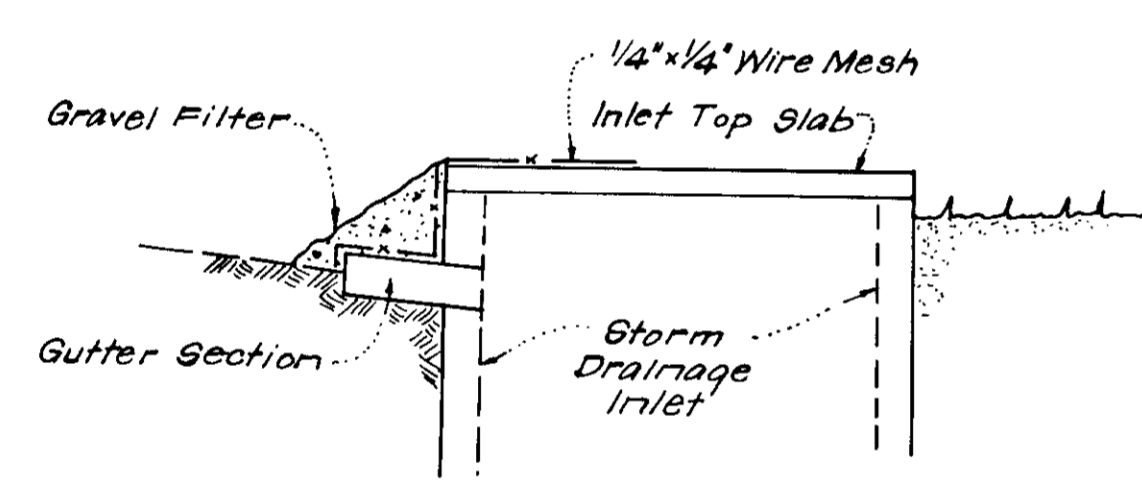
PLAN VIEW DIVERSION DIKE (D.D.)
 No Scale



CUT DIVERSION DIKE
 No Scale

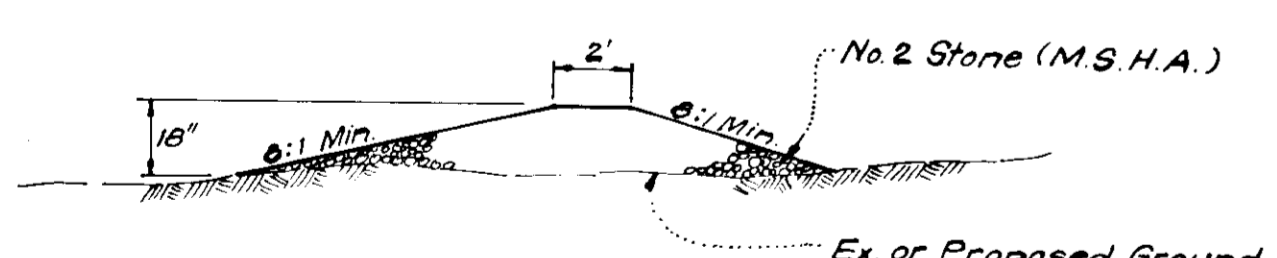


ISOMETRIC VIEW



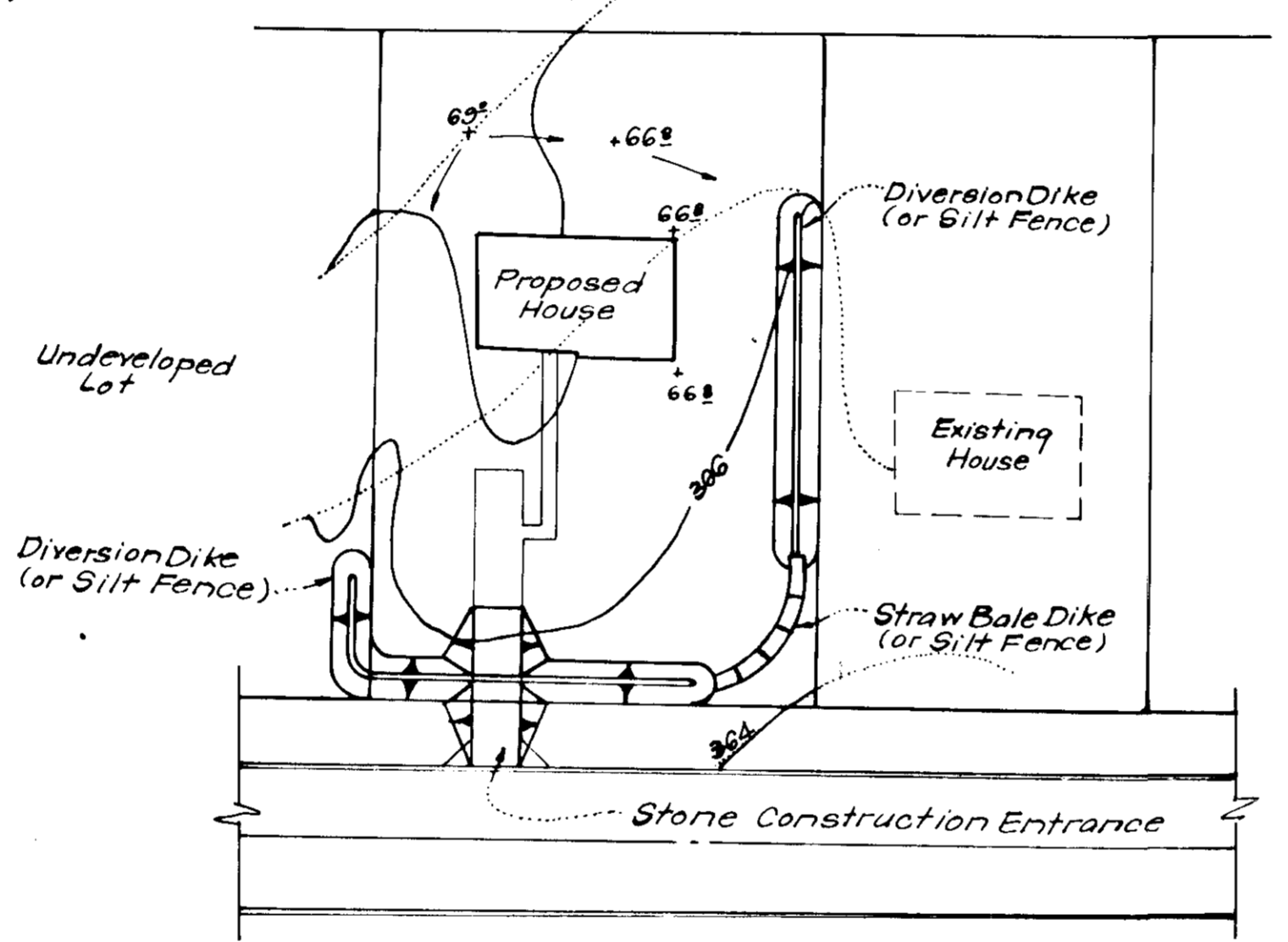
SECTION VIEW

STONE FILTER INLET PROTECTION DETAIL (S.F.I.P.)
 No Scale

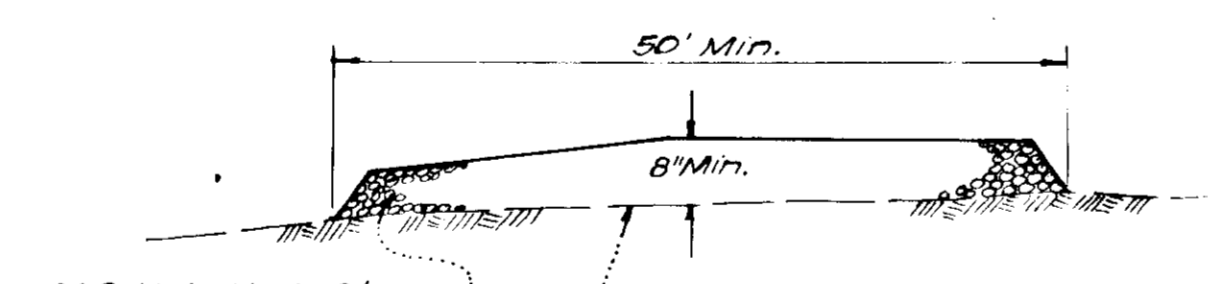


SECTION VIEW

STONE CONSTRUCTION ENTRANCE DETAIL (S.C.E.)
 No Scale

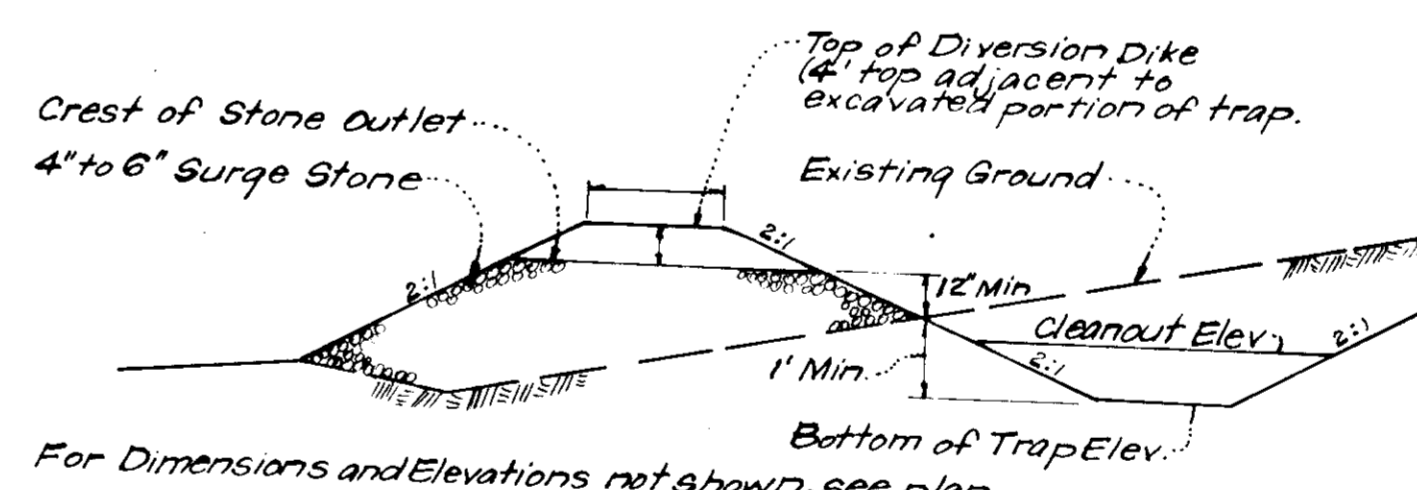


TYPICAL SINGLE LOT SEDIMENT CONTROL PLAN
 No Scale



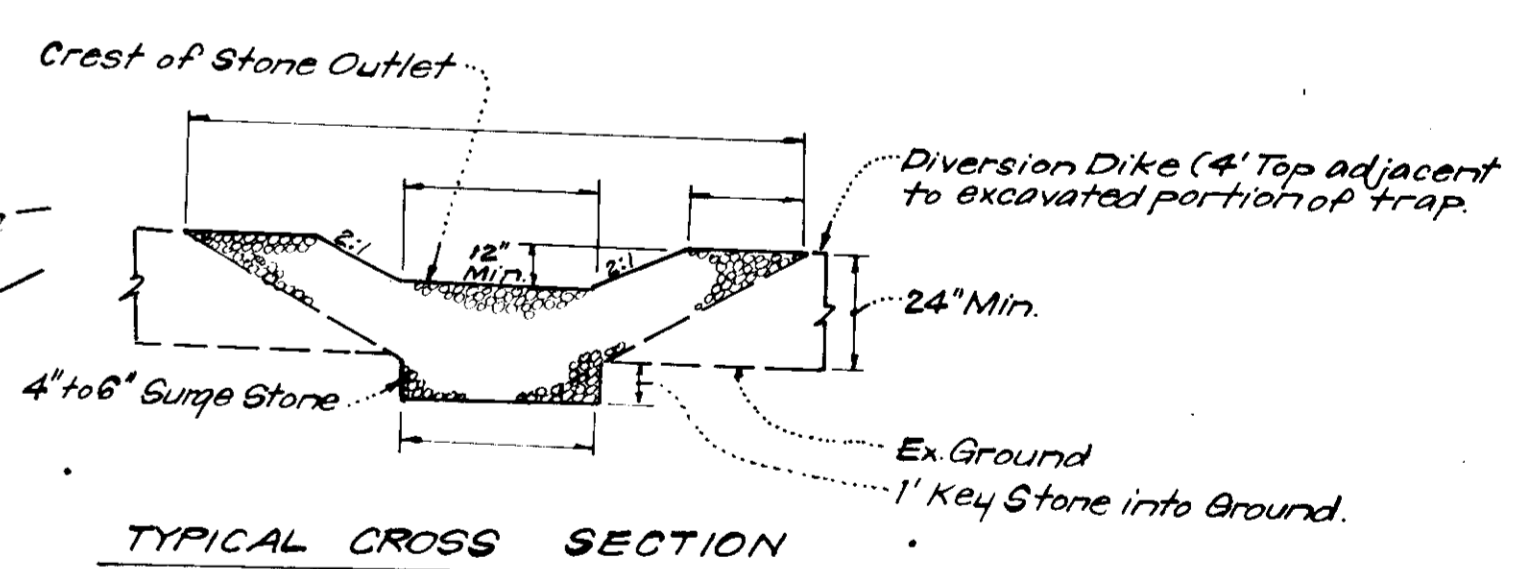
SECTION VIEW

STABILIZED CONSTRUCTION ENTRANCE
 No Scale



TYPICAL PROFILE

DETAILS OF STONE FILTER OUTLET (FOR STONE OUTLET SEDIMENT TRAP)
 No Scale



TYPICAL CROSS SECTION

STONE FILTER OUTLET NOTES:
 1. Sediment Trap to be cleaned out when sediment reaches a level of 2 ft. below the Crest of Stone Outlet.
 2. Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
 3. Stone Outlet to be constructed through diversion dike adjacent to excavated portion of Sediment Trap.

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

G. Nelson Clark
 G. Nelson Clark
 3-28-78
 Date



DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
 DATE 4-13-78

Reviewed for Howard S.C.D. Name
 and meets Technical Requirements
A. Wayne Ray 4/11/78 Date
 U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Wes Ebert
 Approved
 4-19-78
 Date

J. C. Sackett
 Signature
 Date

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
Joseph Boylen 5-8-78
 APPROVED BY HOWARD COUNTY OFFICE OF PLANNING & ZONING
James H. Harrel 5-8-78
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
R. E. Funderburg 5/2/78
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
W. O. F. West 5-2-78

APPROVED: DEPARTMENT OF PUBLIC WORKS	
CHIEF, BUREAU OF HIGHWAYS	DATE
APPROVED: HOWARD COUNTY OF PLANNING & ZONING	
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LARKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400	
DESIGNED DR.H.	SEDIMENT & EROSION CONTROL PLAN
DRAWN K.W.	SCALE As shown
CHECKED R.J.S.	DRAWING 5' x 5'
DATE Mar. 1978	JOB NO.
	FILE NO. 1201-5E