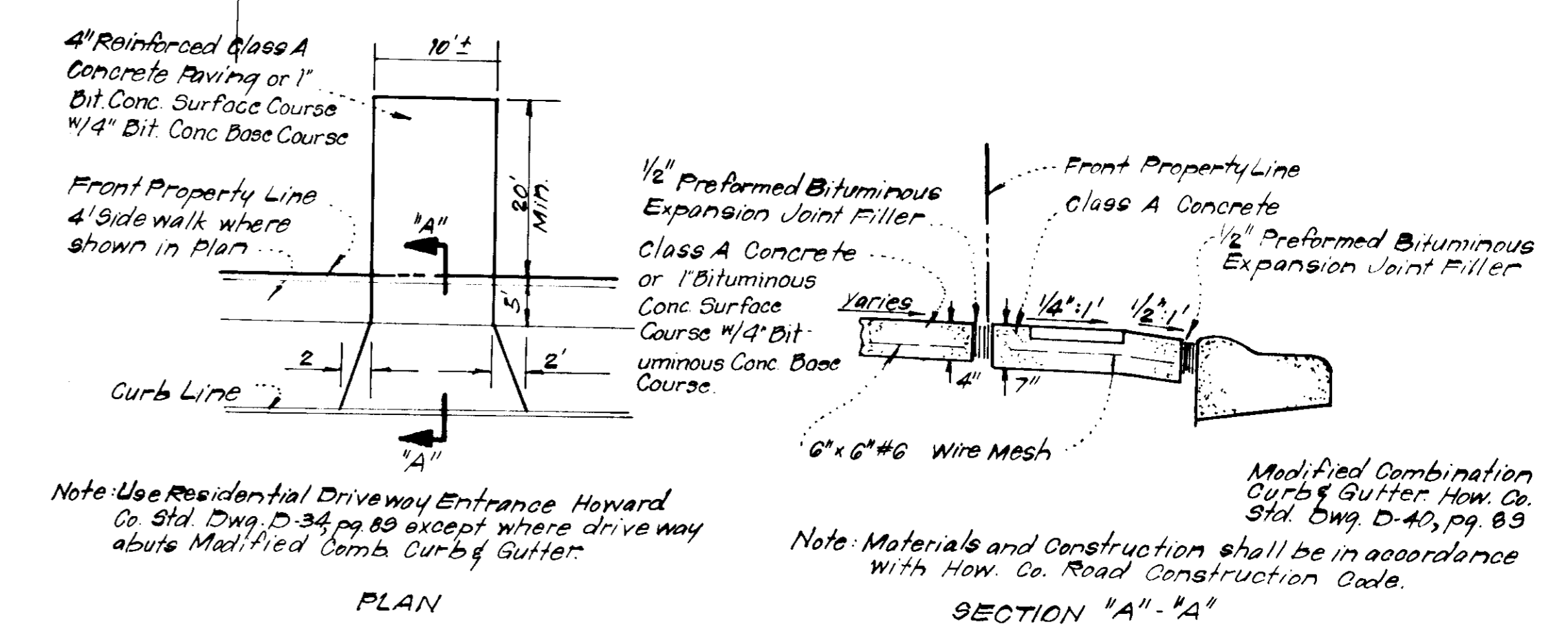
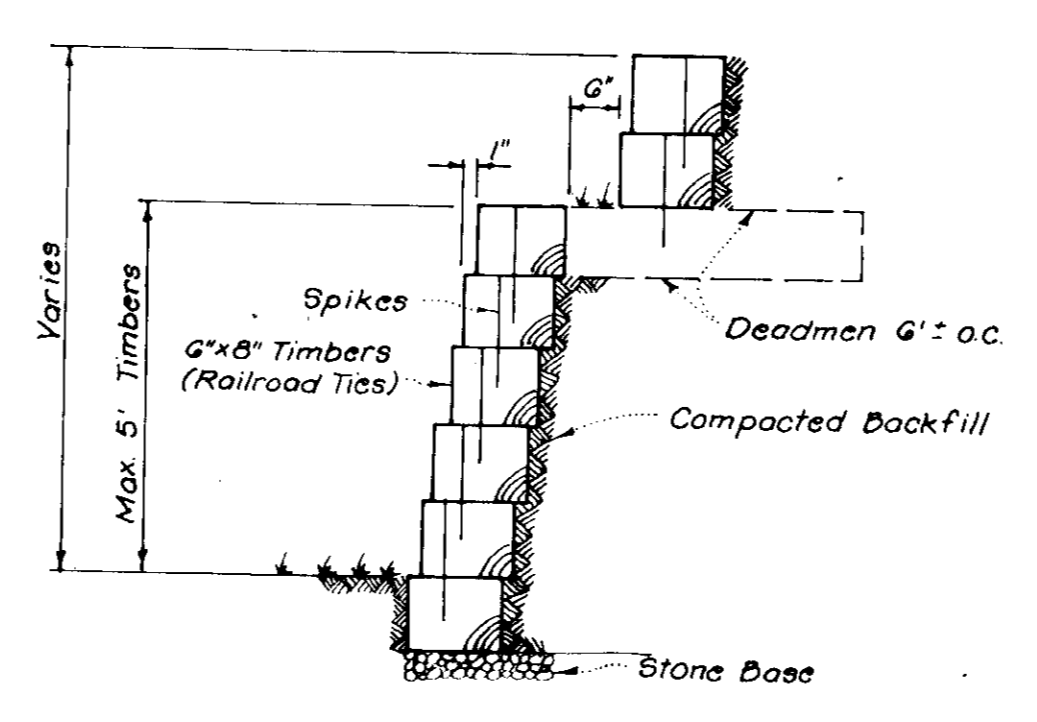
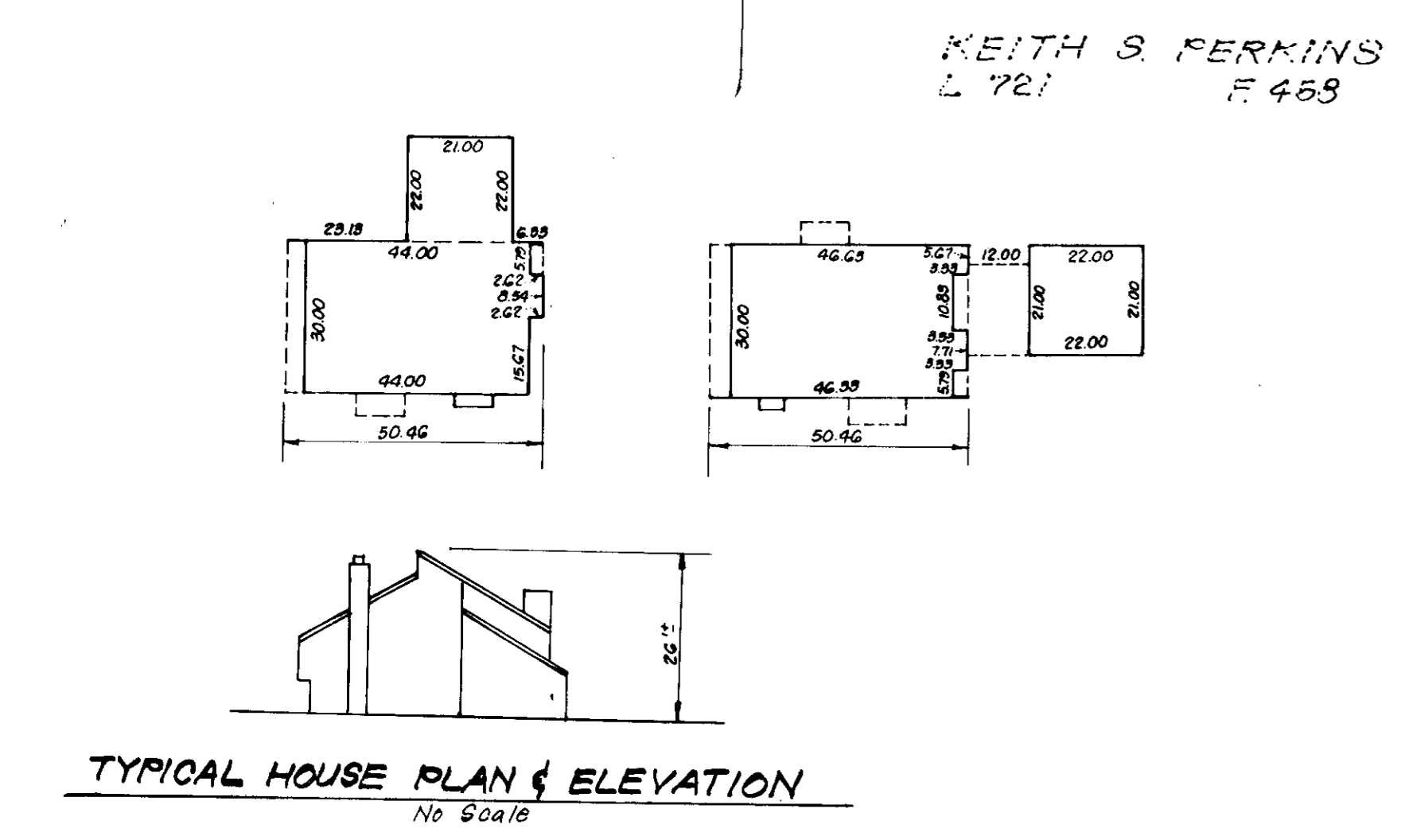


- GENERAL NOTES:**
1. The Land included in this plan is zoned New Town (S.F.M.D.).
 2. The Lots shown on this plan are covered by Final Development Plan Phase 171 recorded as Plat # 3054-A-83.
 3. All coordinates are based on traverse controls for Columbia established by Maps, Inc., in 1965 by Prolong Jaganke in 1969 which controls were tied to Maryland Bureau of Control Survey monuments and to U.S. Coast & Geodetic Survey monuments in the Columbia area.
 4. The area covered in this submission is located on Tax Map # 3G.
 5. The total area included in this plan is 2.27 Acres.
 6. All roadways are public & existing.
 7. Any damage to county owned rights of way or paving shall be corrected at the developers expense.

- LEGEND:**
1. Contour Interval 2 Ft.
 2. Existing Contour 360
 3. Proposed Contour 360
 4. Spot Elevation +00.5
 5. Direction of Drainage
 6. Exist. Trees to be Retained



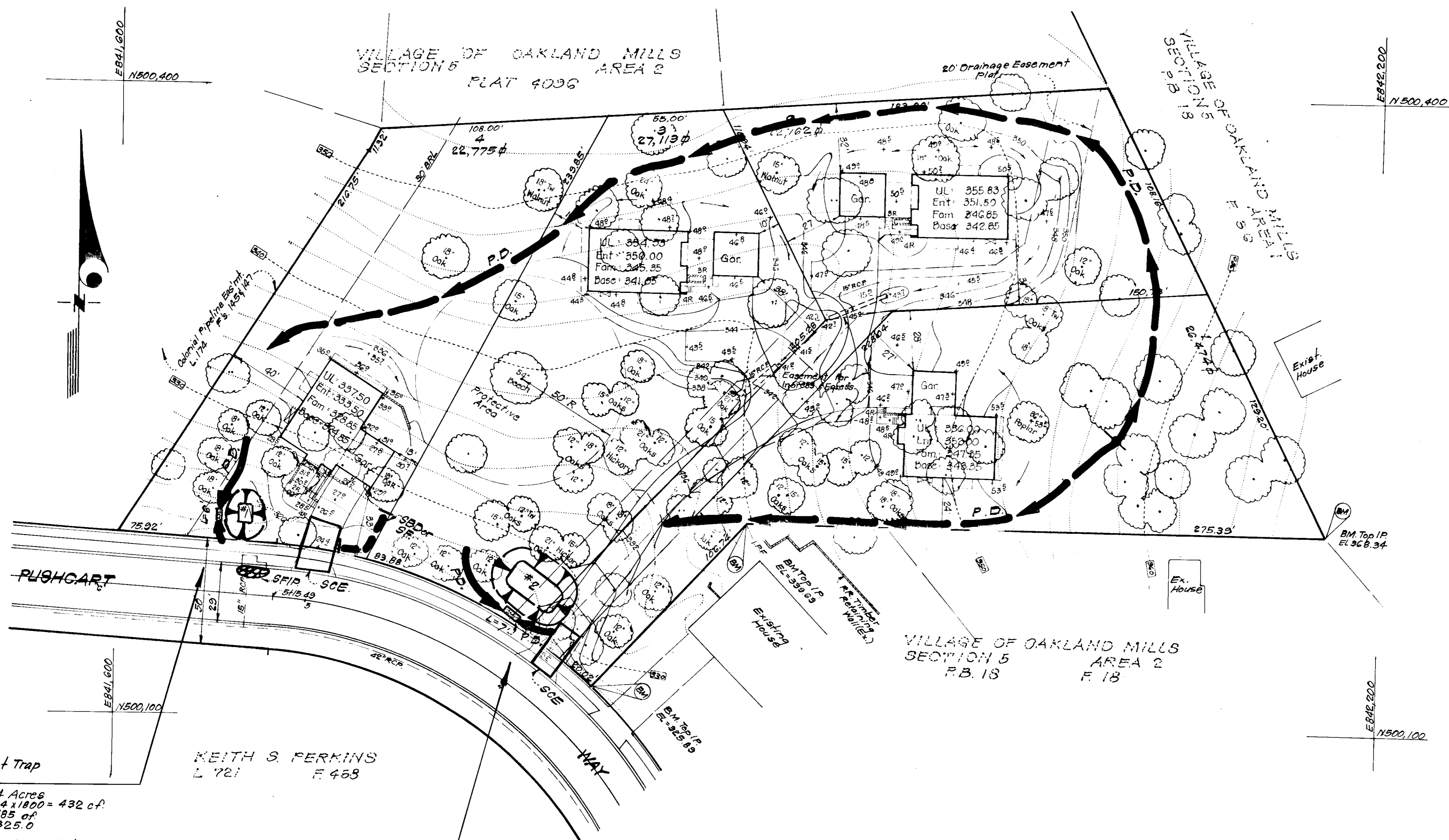
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
HOWARD COUNTY HEALTH DEPARTMENT
DATE 5-2-79
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
DATE 4-27-79
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE 4-30-79

APPROVED
DATE 2-5-79
M.D. for J.L.M.

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

| | | |
|---------------------------|---|-----------------------|
| DESIGNED J.M.E. | SITE DEVELOPMENT PLAN LOTS 1, 3, 4 & 9 | SCALE 1/4"=30' |
| DRAWN K.L.W. J.M.E. | | DRAWING 1023 |
| CHECKED W.H.T. | COLUMBIA VILLAGE OF OAKLAND MILLS SECTION 5 AREA 7 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND | JOB NO. |
| DATE 1-4-79 | FOR: CONTEMPO HOMES, INC. Suite 407 One Mall North Columbia, Maryland 21044 | FILE NO. 78-1165-X |

SDP-79-87.



- LEGEND:**
1. Contour Interval 2 Ft.
 2. Existing Contour
 3. Proposed Contour
 4. Spot Elevation
 5. Direction of Drainage
 6. Exist Trees to be Retained
 7. Perimeter Dike
 8. Straw Bale Dike or Silt Fence
 9. Stone Filter Inlet Protection
 10. Stone Construction Entrance
 11. Sediment Trap

Trop No. 1
 Stone Outlet Sediment Trap
 91-3 pg. 20.07
 Drainage Area: 0.24 Acres
 Storage Required: 24 x 1800 = 432 c.f.
 Storage Provided: 585 c.f.
 Stone Crest Elev: 325.0
 Bottom Elev: 321.0
 Bottom Dimensions: 9' x 7' x 3' deep

KEITH S. PERKINS
 L 721 F 453

Trop No. 2
 Stone Outlet Sediment Trap
 51-3 pg. 20.07
 Drainage Area: 1.125
 Storage Required: 1.12 x 1800 = 1980
 Storage Provided: 1980 c.f.
 Stone Crest Elev: 328.5
 Bottom Elev: 324.5
 Bottom Dimensions: 27' x 14' x 3' deep

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY, HEALTH DEPARTMENT
 Chief Health Officer: *[Signature]* 5-2-79
 DATE: 5-2-79

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 Planning Director: *[Signature]* 5-11-79
 DATE: 5-11-79

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *[Signature]* 4-30-79
 DATE: 4-30-79

Reviewed for *[Signature]* S.C.D.
 Name
 and meets Technical Requirements
 Signature: *[Signature]* Date: 4/25/79
 U.S. Soil Conservation Service

DEVELOPER'S CERTIFICATE
 I certify that all development and/or construction has been done according to this 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 its authorized agents as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

[Signature] 4/26/79
 Approved Date

[Signature] 1/5/78
 Signature Date
 Christopher O. Stubbs

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control is a practical and workable plan based on a proper study of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

[Signature] 1-5-77
 Date
 G. Nelson Clark



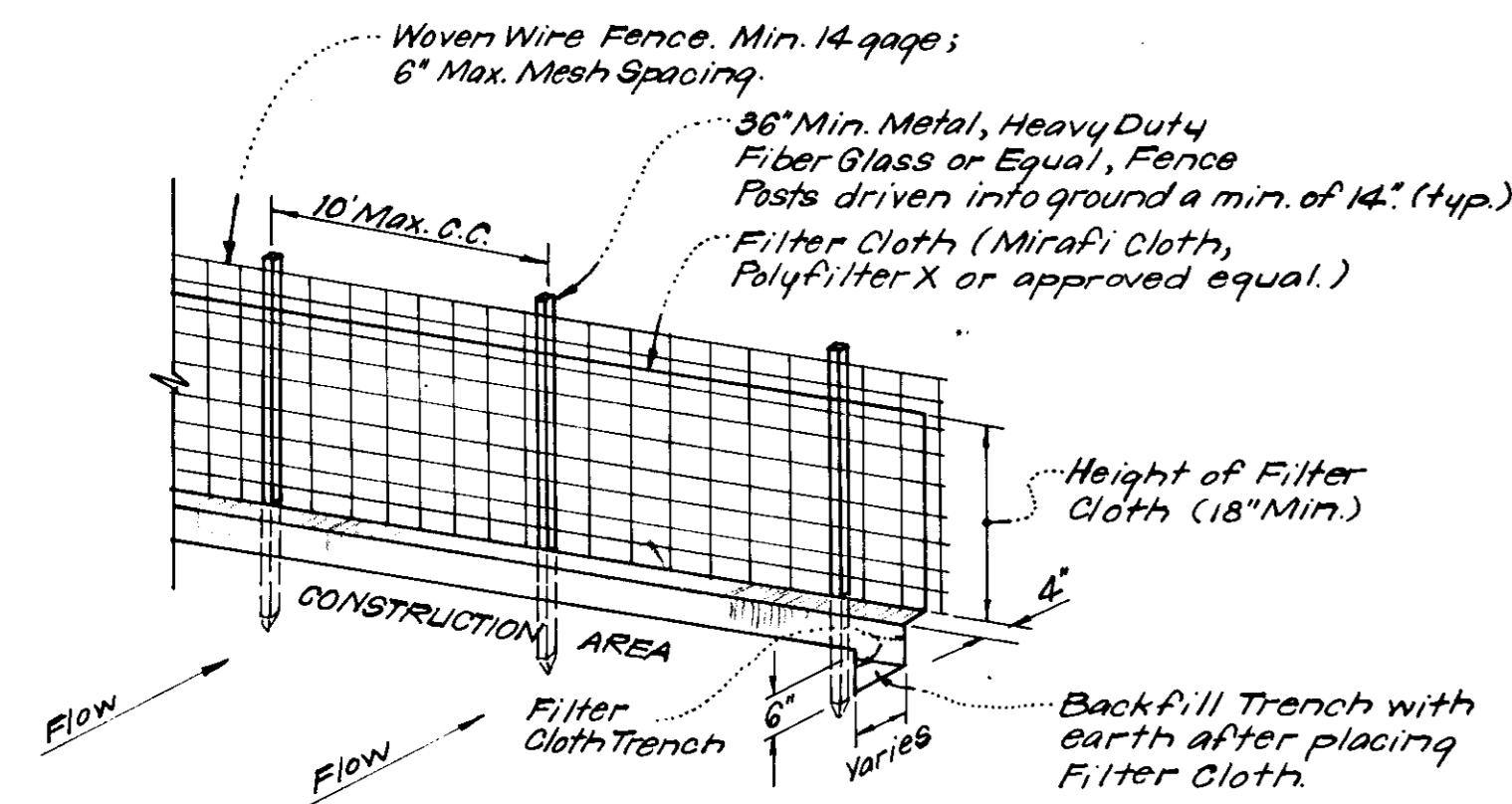
APPROVED
 DIVISION OF LAND DEVELOPMENT
 HOWARD COUNTY, MARYLAND
 DATE: 2-5-79
[Signature]

PLAT REFERENCE: Plat 4096 1 Plat # 4226

| | | |
|--|---|------------------------|
| CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 583-3400 | | |
| DESIGNED D.A.B. | SEDIMENT & EROSION CONTROL PLAN LOTS 1, 3, 4 & 9 COLUMBIA VILLAGE OF OAKLAND MILLS SECTION 5 AREA 7 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND | SCALE 1"=30' |
| DRAWN K.I.W. J.M.E. | | DRAWING 2 of 3 |
| CHECKED D.A.B. | | JOB NO. |
| DATE Jan, 1979 | | FILE NO. 78-1165-5E |
| FOR: CONTEMPO HOMES, INC. Suite 407 One Mall North Columbia, Maryland 21044 SDP-79-87c | | |

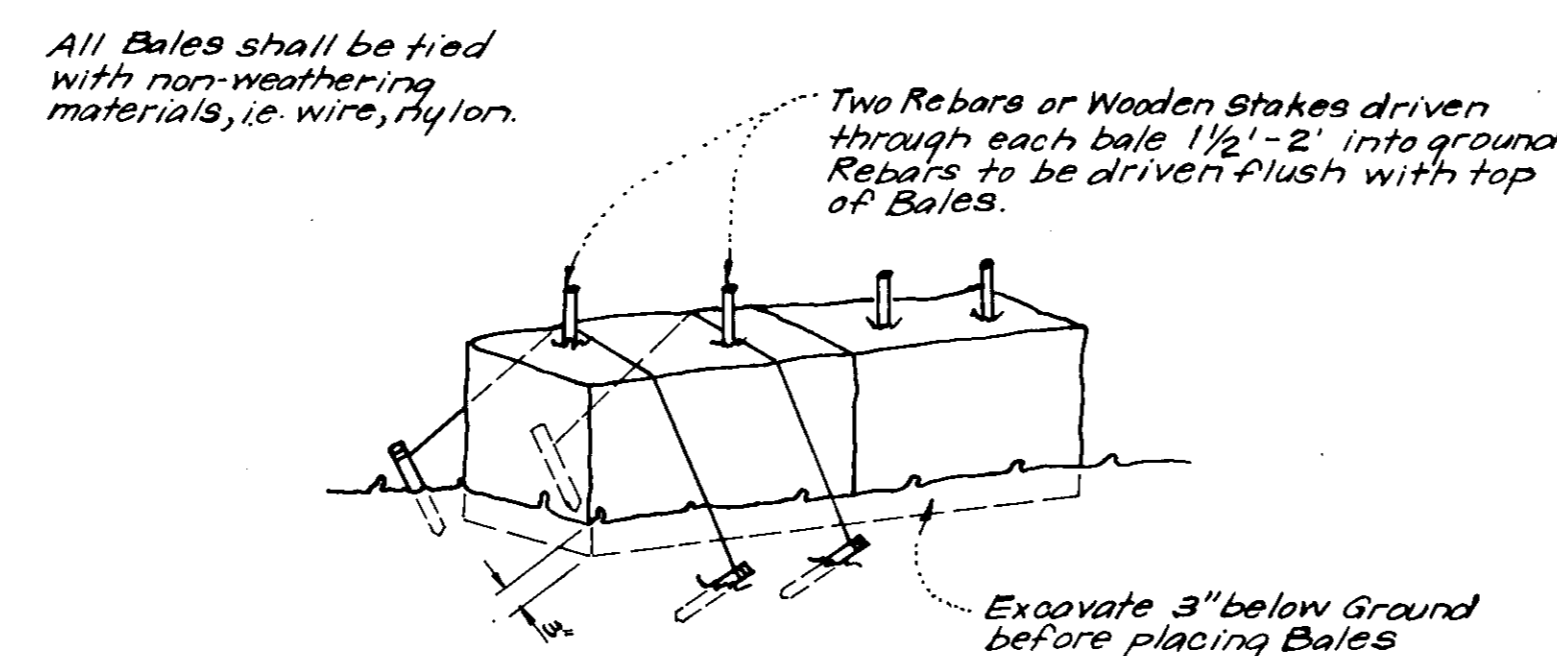
GENERAL NOTES

- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- 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 # 6 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs/1000 sq. ft.
- Notify the Bureau of Inspections and Permits at least 24 hours before starting any work.
- 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% Chewings 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 placed at all construction entrances.
- SITE ANALYSIS:**
 - Total Area = 2.276 Acres
 - Area to be Roofed = 0.163 Acres
 - Area to be Paved = 0.140 Acres
 - Area to be Seeded = 0.702 Acres
 - Area Undisturbed = 1.271 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 # 6.
- If Houses are to be constructed on an "As Sold" basis at random, Single Lot Sediment Control, as shown on this sht, 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 = 30 L.F.



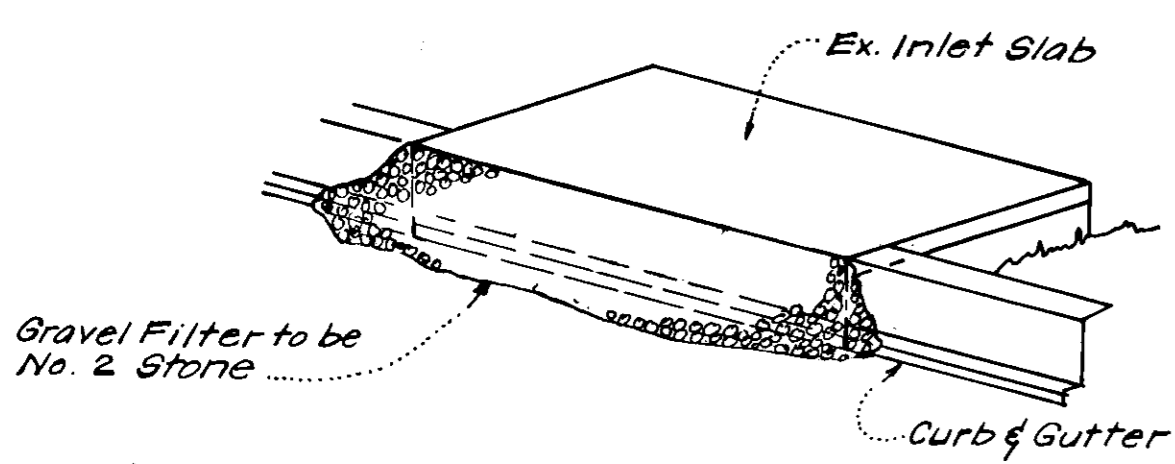
NOTES:
 1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.
 2. Filter Cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" x 24".

SILT FENCE DETAIL (S.F.)
 No Scale

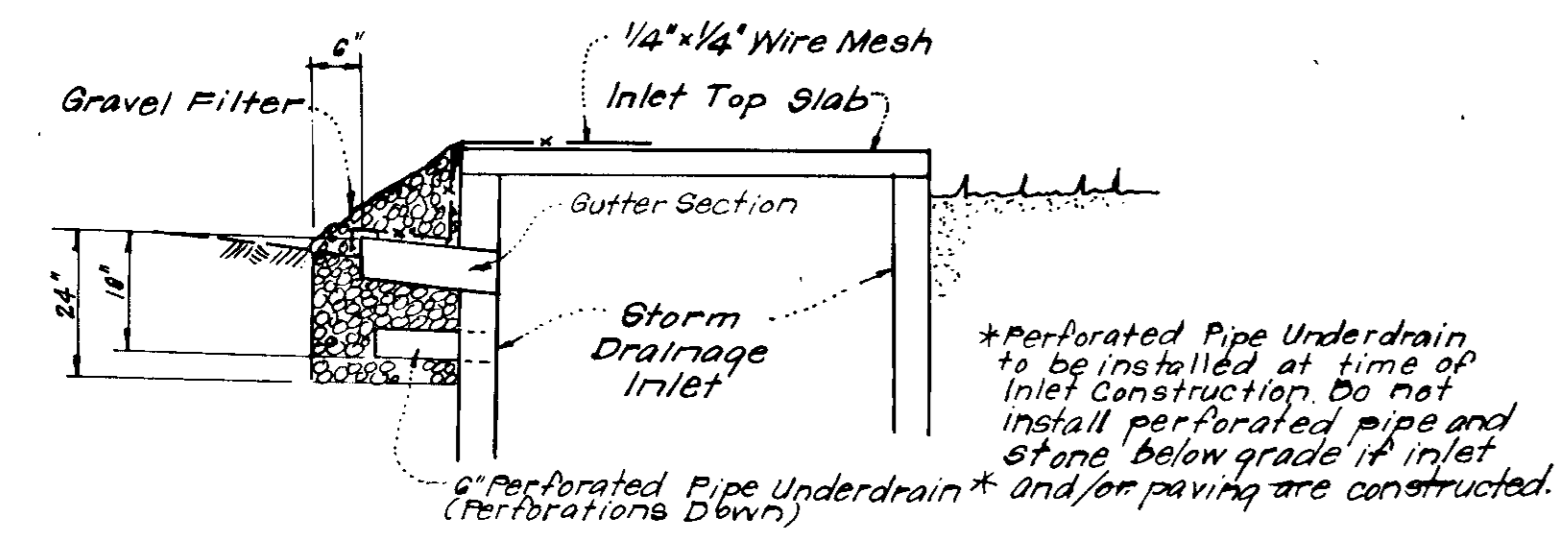


NOTE:
 1. In lieu of the use of rebar each Straw Bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above).

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

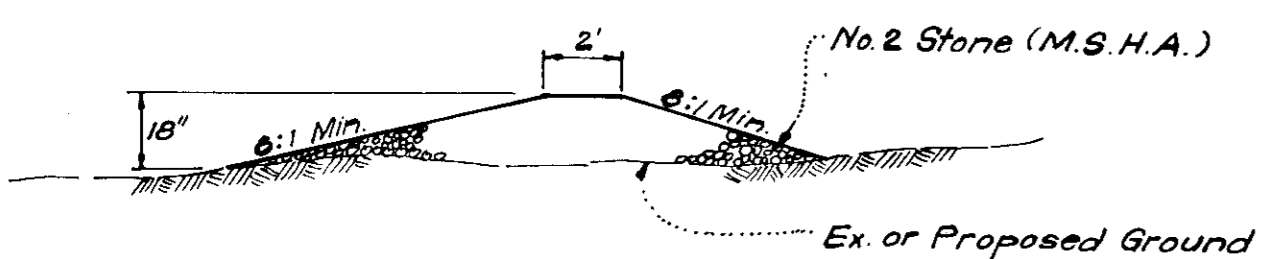


ISOMETRIC VIEW



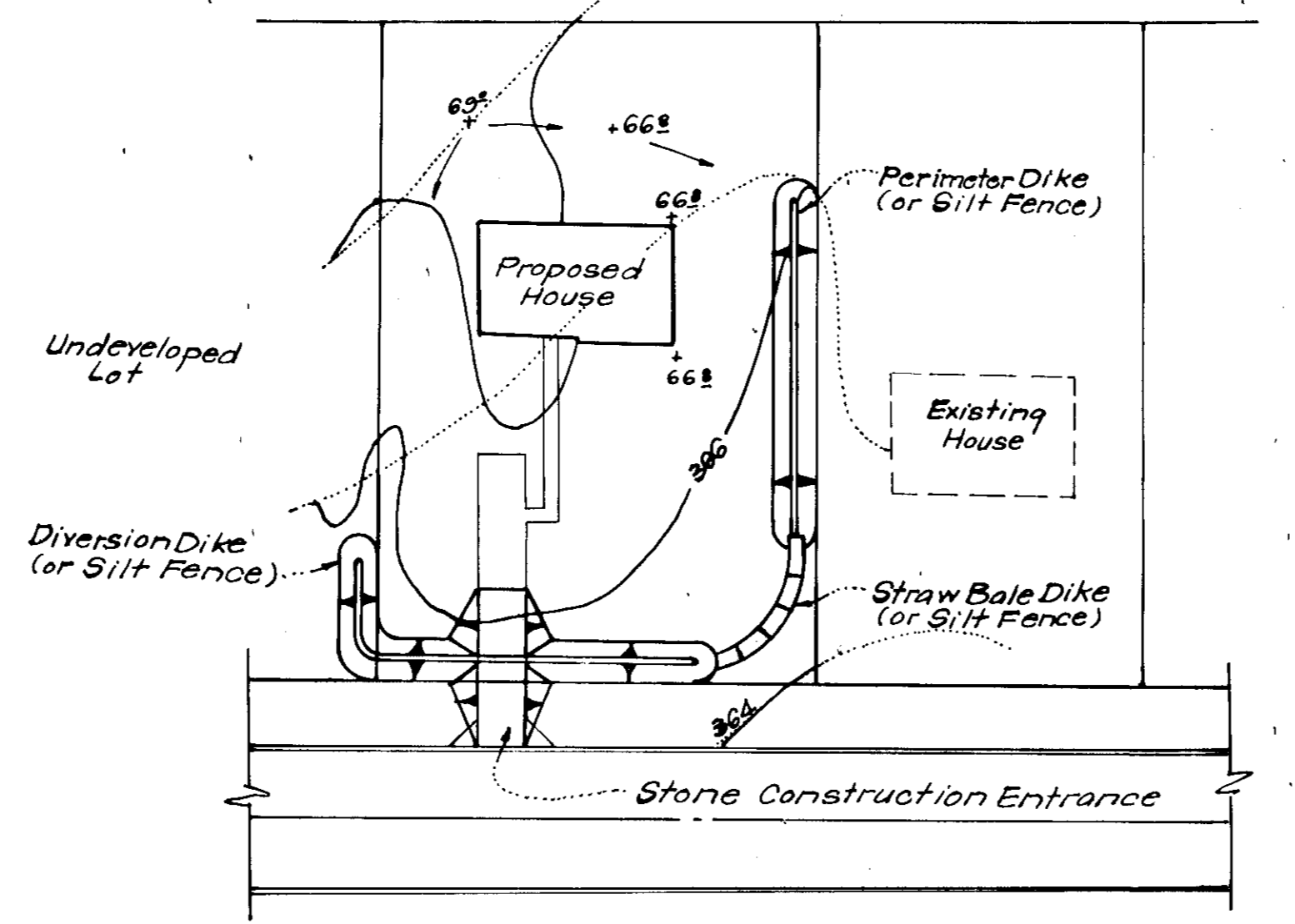
SECTION VIEW

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

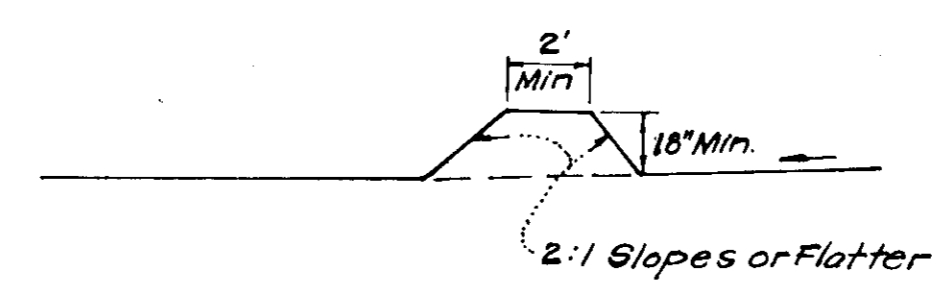


SECTION VIEW

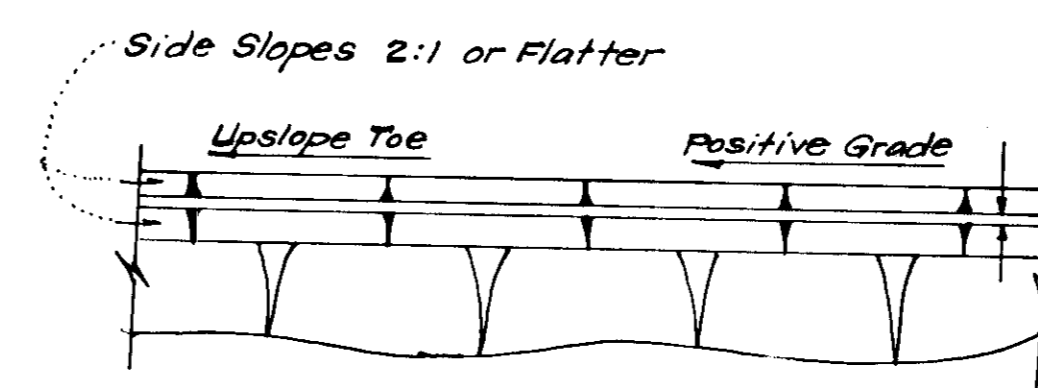
STONE CONSTRUCTION ENTRANCE DETAIL (S.C.E.)
 No Scale



TYPICAL SINGLE LOT SEDIMENT CONTROL PLAN
 No Scale

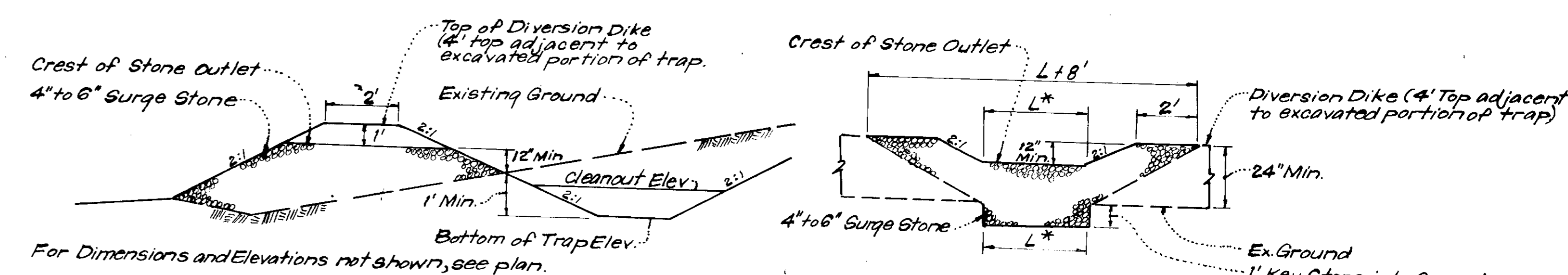


CROSS SECTION



PLAN VIEW

PERIMETER DIKE (P.D.)
 No Scale



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

STONE FILTER OUTLET NOTES:
 1. Sediment Trap to be cleaned out when sediment reaches a level of 1 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.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Reviewed for Howard S.C.D.
 Name
 and meets Technical Requirements
R. Wayne Roy 4/25/79
 Signature Date
 U.S. Soil Conservation Service

DEVELOPER'S CERTIFICATE

I certify that all development and/or construction will be done according to this 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.

Richard Zehn 4/26/79
 Signature Date

Christopher O. Stubbs 1/5/78
 Signature Date
 Christopher O. Stubbs

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 1-5-79
 Signature Date
 G. Nelson Clark



APPROVED
 DIVISION OF LAND DEVELOPMENT

HOWARD COUNTY, MARYLAND
 DATE 2-5-79

CLARK • FINEPROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS

11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 583-3400

| | | | |
|----------|--|----------|------------|
| DESIGNED | SEDIMENT & EROSION CONTROL PLAN LOTS 1, 3, 4 & 9 | SCALE | As Shown |
| DRAWN | COLUMBIA | DRAWING | 3013 |
| CHECKED | VILLAGE OF OAKLAND MILLS SECTION 5 AREA 7 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND | JOB NO. | |
| DATE | FOR: CONTEMPO HOMES, INC. Suite 407 One Mall North Columbia, Maryland 21044 | FILE NO. | 78-1165-5E |

Jan, 1979