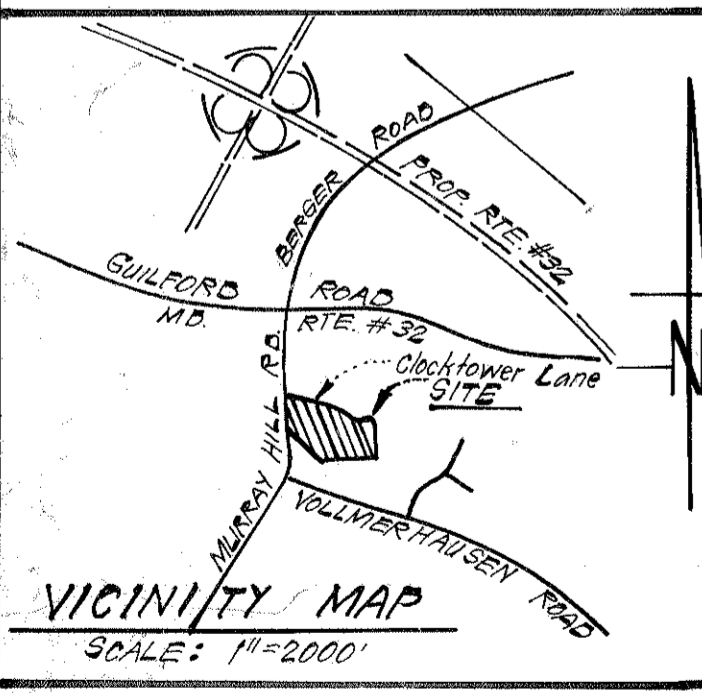
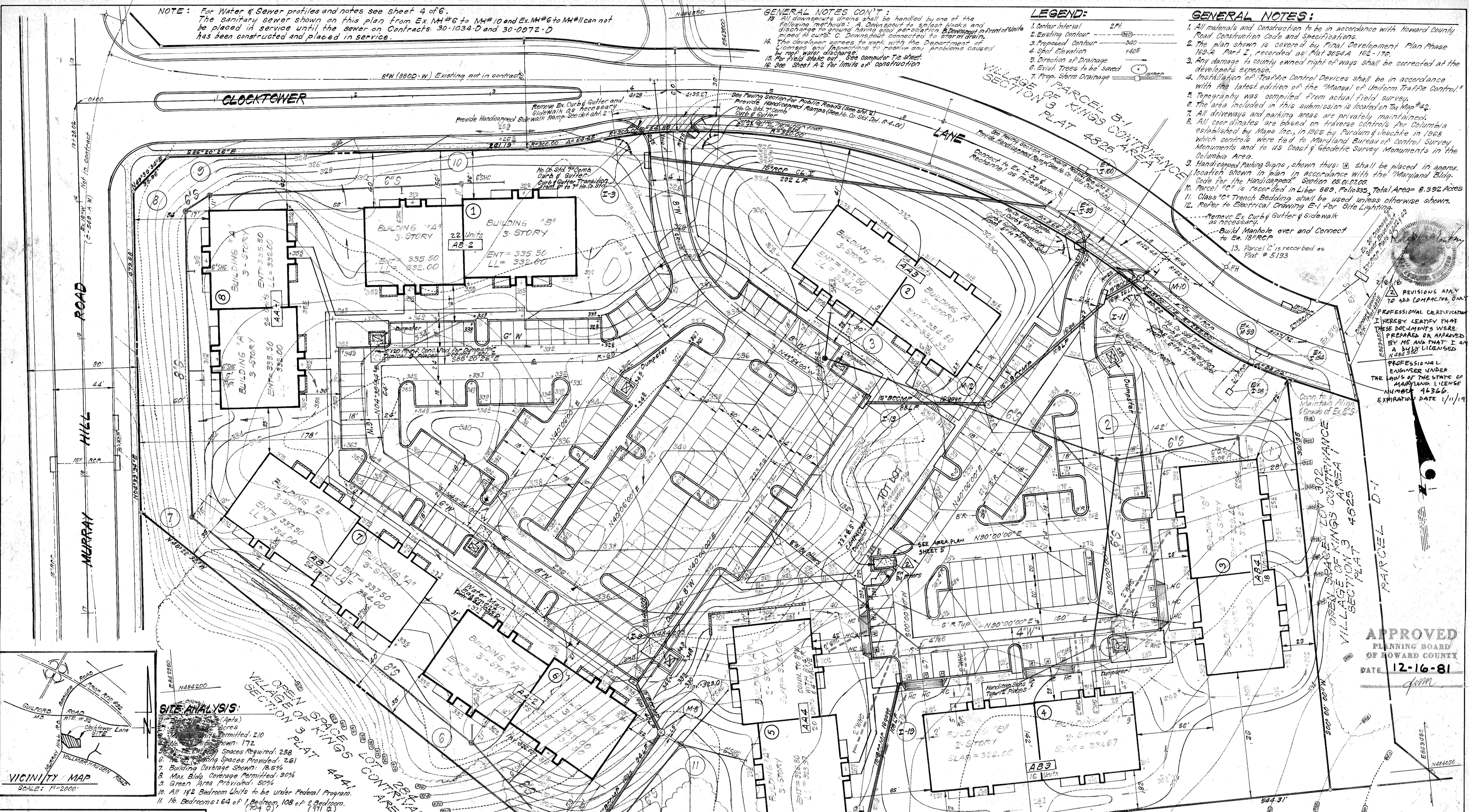


NOTE: For Water & Sewer profiles and notes see sheet 4 of 6.
 The sanitary sewer shown on this plan from Ex. MH#6 to MH#10 and Ex. MH#6 to MH#11 can not be placed in service until the sewer on Contracts 30-1034-D and 30-0972-D has been constructed and placed in service.

GENERAL NOTES CONT':
 13. All downspouts shall be handled by one of the following methods: A. Downspouts to be connected and discharge to ground having curb, per section B. Downspout in front of Units piped to curb C. Downspout connected to storm drain.
 14. The developer agrees to work with the Department of Streets and Inspections to resolve any problems caused by roof water discharge.
 15. For Field Stake out See Computer Tie Sheet.
 16. See Sheet A-2 for limits of construction.

LEGEND:
 1. Contour Interval 2 FT.
 2. Existing Contour 340
 3. Proposed Contour 340
 4. Spot Elevation 1405
 5. Direction of Drainage
 6. Exist. Trees to be saved
 7. Prop. Storm Drainage

GENERAL NOTES:
 1. All materials and construction to be in accordance with Howard County Road Construction Code and Specifications.
 2. The plan shown is covered by Final Development Plan Phase 160-A Part I, recorded as Plat 3054A 162-176.
 3. Any damage to county owned right of ways shall be corrected at the developer's expense.
 4. Installation of Traffic Control Devices shall be in accordance with the latest edition of the "Manual of Uniform Traffic Control".
 5. Topography was compiled from actual field survey.
 6. The area included in this submission is located on Tax Map #42.
 7. All driveways and parking areas are privately maintained.
 8. All coordinates are based on traverse controls for Columbia established by Maps Inc., in 1965 by Purdon & Beschke, in 1968 which controls were tied to Maryland Bureau of Control Survey Monuments and to US Coast & Geodetic Survey Monuments in the Columbia Area.
 9. Handicapped Parking Signs, shown thus: shall be placed in approx. location shown in plan in accordance with the "Maryland Blg. Code of the Handicapped" Section 05.01.01.05.
 10. Parcel "C" is recorded in Liber 669, Folio 335, Total Area = 8.392 Acres.
 11. Class "C" Trench Bedding shall be used unless otherwise shown.
 12. Refer to Electrical Drawing E-1 for Site Lighting.
 13. Parcel "C" is recorded as Plat # 5193.



SITE ANALYSIS:
 1. Total Area: 210 Acres
 2. Area Permitted: 172 Acres
 3. Total Parking Spaces Required: 258
 4. Total Parking Spaces Provided: 261
 5. Building Coverage Shown: 18.5%
 6. Max. Blg. Coverage Permitted: 30%
 7. Green Area Provided: 50%
 8. All 1 1/2 Bedroom Units to be under Federal Program.
 9. All 1 1/2 Bedroom Units to be under Federal Program.
 10. All 1 1/2 Bedroom Units to be under Federal Program.
 11. No. Bedrooms: 64 of 1 Bedroom, 108 of 2 Bedroom, 104 of 3.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICE 10-14-82
 APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR 10-15-82
 CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMIN DATE 10-15-82
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS,
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR 10-18-82
 CHIEF BUREAU OF ENGINEERING 10-13-82

APPROVED FOR HOWARD COUNTY
 U.S. Soil Conservation Service
 DEVELOPER'S/BUILDER'S CERTIFICATE
 We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
 Mark Joseph, President
 Canadian Development Co. by Canadian Investment Corporation of Md.
 10-19-81

REVISION
 1. Added note on sheet 1 & percent of grain on profile of sheet #4 10-7-82

OWNER:
 HOWARD RESEARCH & DEVELOPMENT CORP.
 The Rouse Building
 Columbia, Maryland 21044

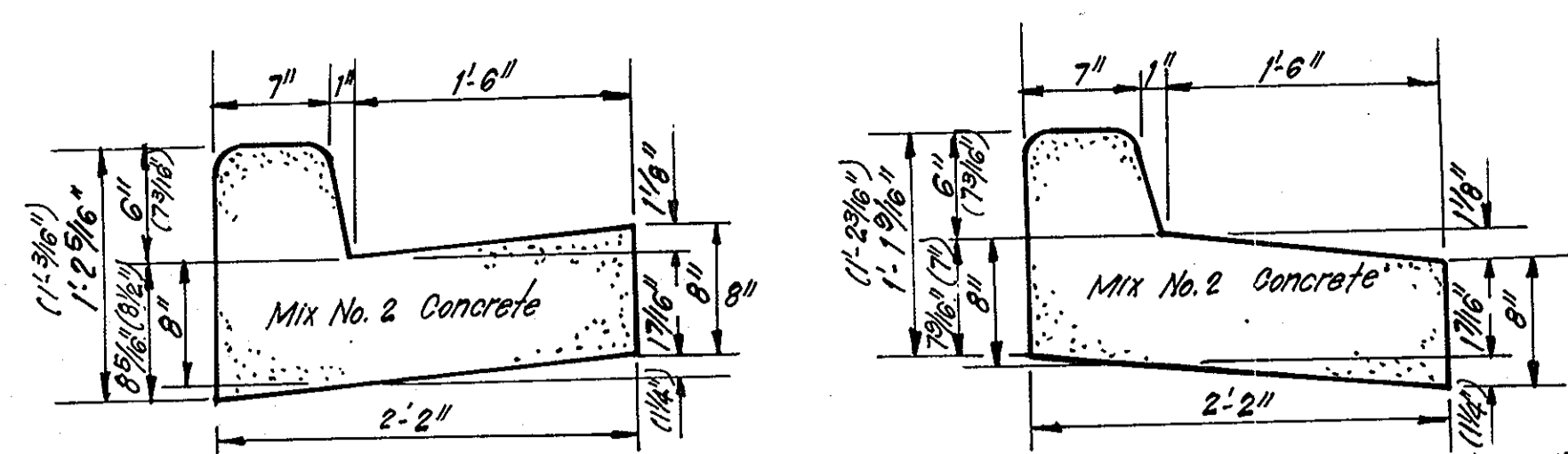
ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Erosion and Sediment Control represents a professional and verifiable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Clark, Finebrock & Sackett
 10-20-81

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 CLARK • FINEBROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400

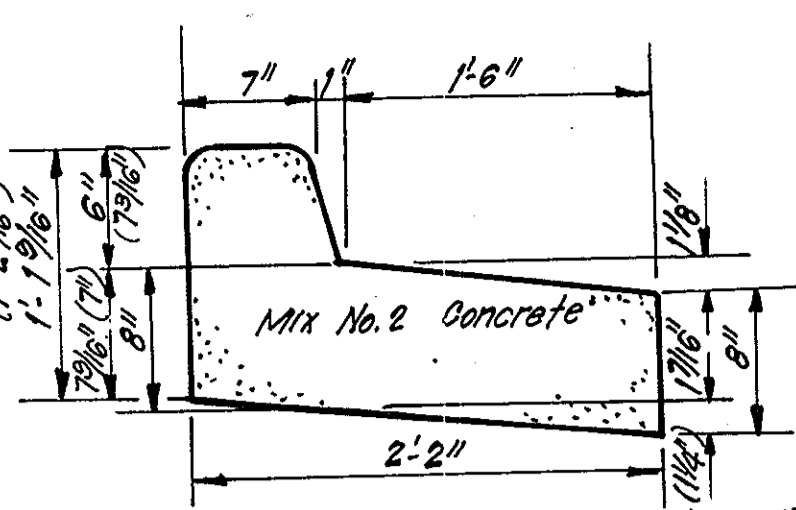
| | | |
|--------------------|---|----------------------|
| DESIGNED J.M.E. | SITE DEVELOPMENT PLAN PARCEL 101 COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: CANADIAN DEVELOPMENT CO. 1100 One Charles Center Baltimore, Md. 21201 | SCALE 1"=30' |
| DRAWN R.W.V. | | DRAWING 1066 |
| CHECKED J.L.S. | | JOB NO. 80-047 |
| DATE 12-14-81 | | FILE NO. 80-047-X |

REVISIONS APPLY TO ADD COMPACTIVE ONLY
 PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 16366. EXPIRATION DATE 1/11/19

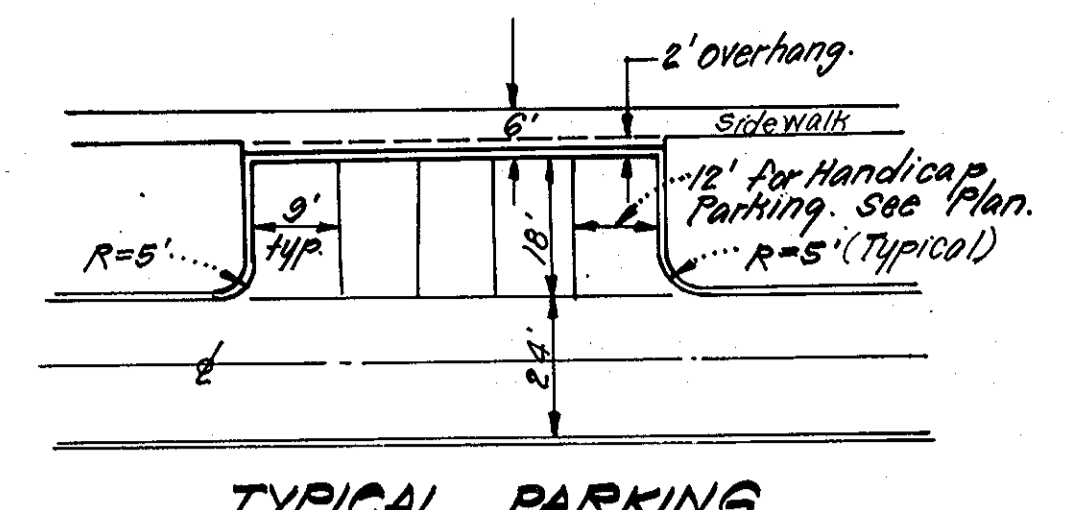
APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 12-16-81



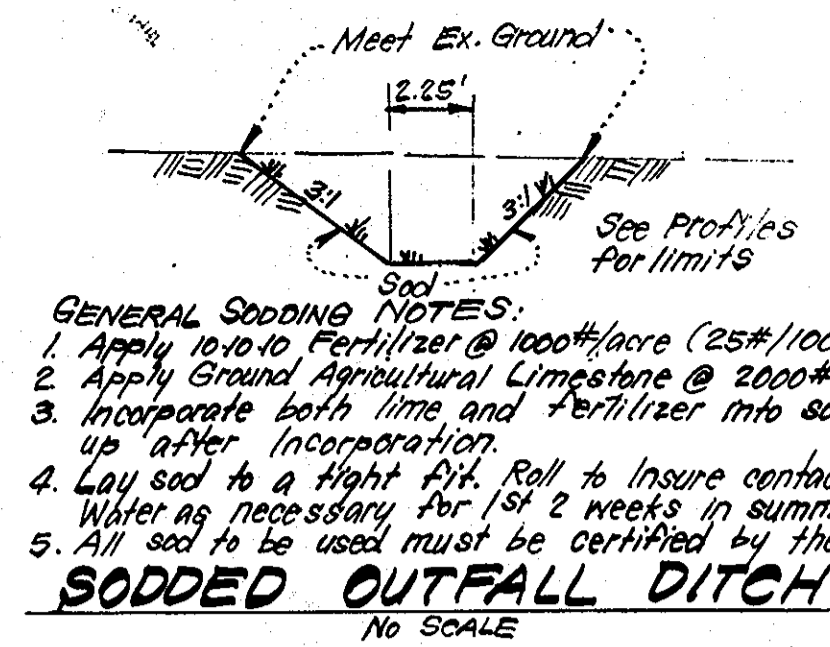
STANDARD 6" or 7" COMBINATION CURB & GUTTER*
No SCALE * For Std 7" Comb Curb & Gutter Use dimensions in Parenthesis.



REVERSE 6" or 7" COMBINATION CURB & GUTTER*
No SCALE



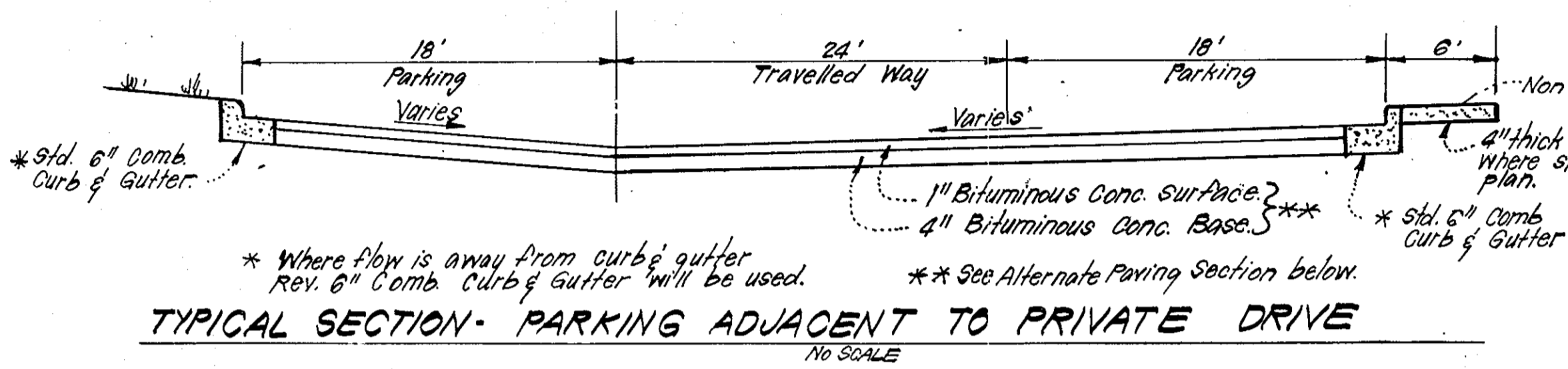
TYPICAL PARKING
No SCALE



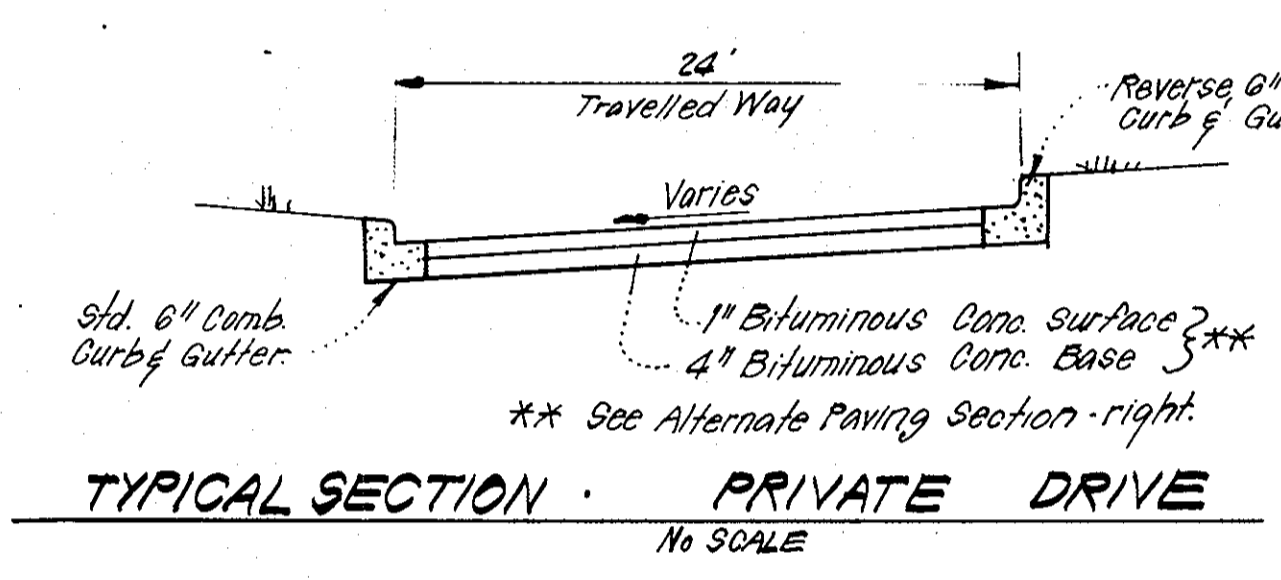
SODDED OUTFALL DITCH
No SCALE

| No. | TYPE | INV. IN | INV. OUT | TOP ELEVATION | REMARKS | LOCATION | |
|------|-----------------------|------------|----------|---------------|---------------------|---------------------|------------------|
| M-8 | B- Manhole | 323.50 | 322.00 | 327.00 | Ho Co Std. SD. 3.03 | 48' 15g See Plan | |
| I-11 | A-10 Inlet w/Deflect. | 319.60 | 319.40 | 323.45 | 322.87 | Ho Co Std. SD. 4.02 | W-2' 6" See Plan |
| M-12 | B- Manhole | 322.70 | 322.50 | 325.85 | Ho Co Std. SD. 3.03 | 48' 15g See Plan | |
| I-13 | A-5 Inlet | - | 331.60 | 334.50 | Ho Co Std. SD. 4.01 | W-2' 6" See Plan | |
| S-7 | C- End Wall | - | 310.85 | - | Ho Co Std. SD. 5.21 | D-12' 15" See Plan | |
| I-9 | A-5 Inlet | - | 328.20 | 333.80 | Ho Co Std. SD. 4.01 | W-2' 6" See Plan | |
| S-15 | C- End Wall | - | 318.60 | - | Ho Co Std. SD. 5.21 | D-12' 15" See Plan | |
| M-17 | B- Manhole | 322.70 | 322.60 | 325.80 | Ho Co Std. SD. 3.03 | 48' 15g See Plan | |
| I-10 | A-5 Inlet | - | 324.20 | 327.00 | Ho Co Std. SD. 4.01 | W-2' 6" See Plan | |
| I-3 | A-10 Inlet w/Deflect. | - | 321.50 | 325.58 | 324.93 | Ho Co Std. SD. 4.02 | W-2' 6" See Plan |
| M-10 | A-1 Manhole | 317.95 Ex. | Ex. | 320.80 | Ho Co Std. SD. 3.01 | 48' 15g See Plan | |

* Increase H dimension by 1'-0" to allow for Rip Rap construction.



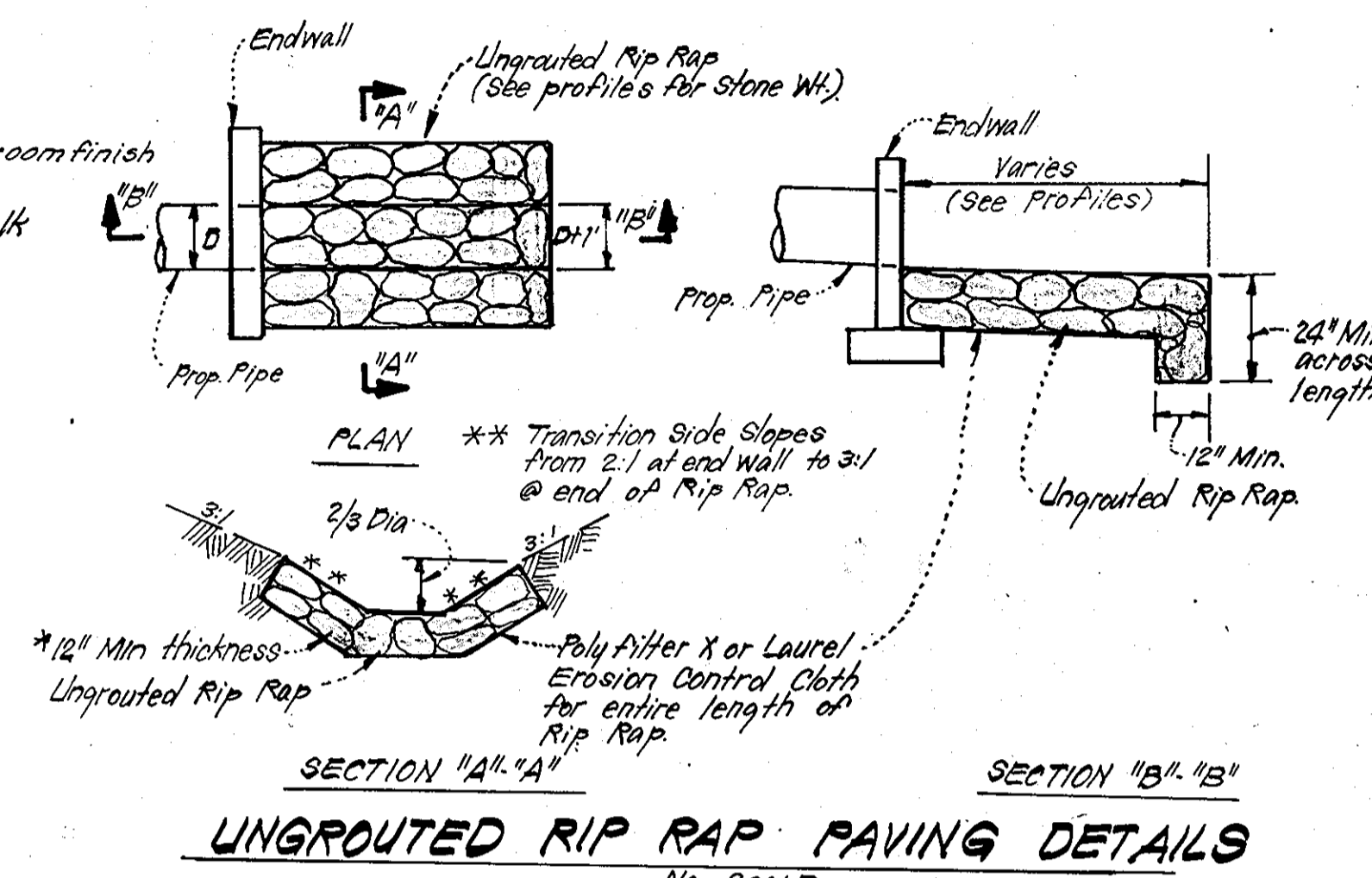
TYPICAL SECTION - PARKING ADJACENT TO PRIVATE DRIVE
No SCALE



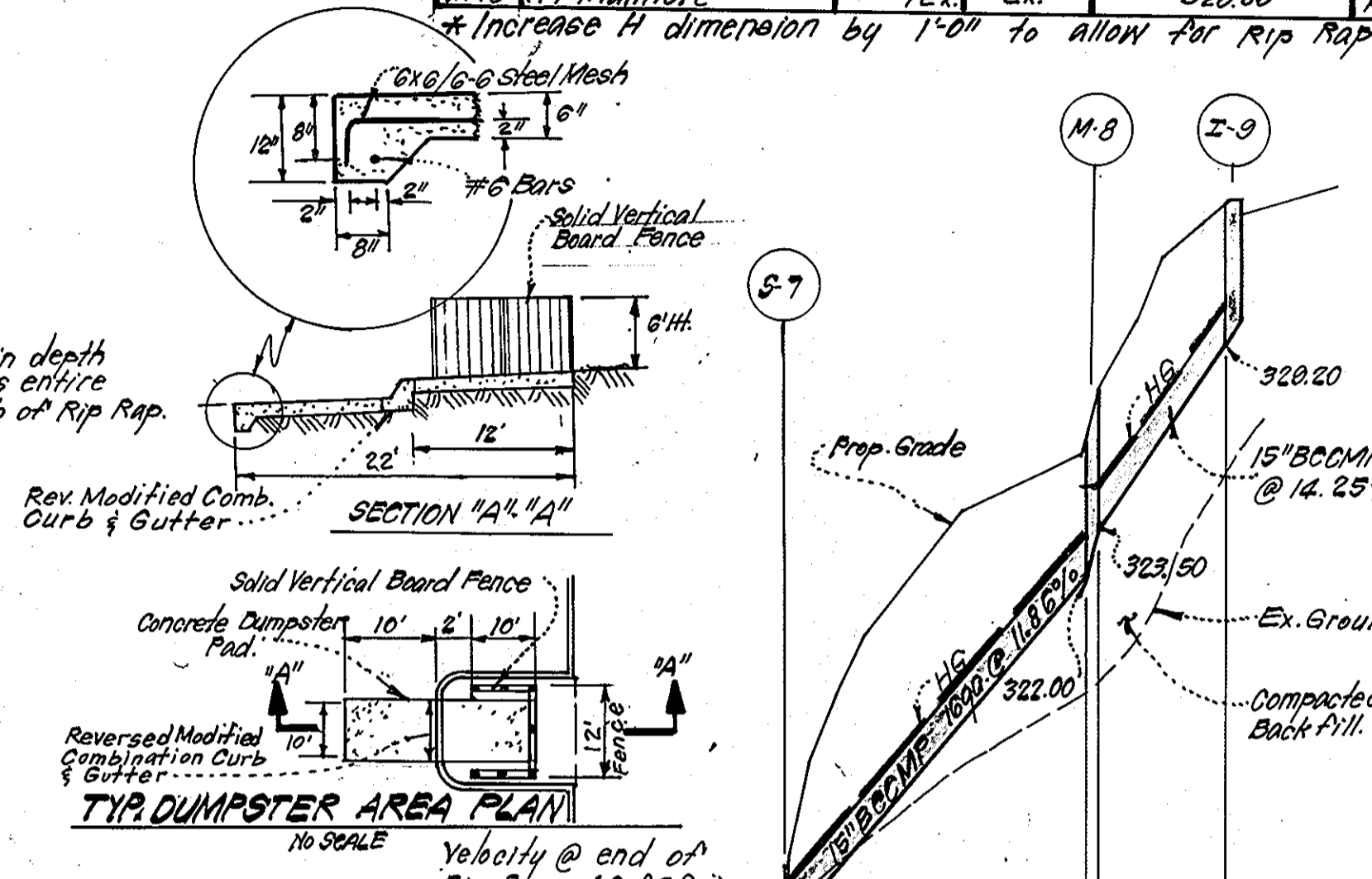
TYPICAL SECTION - PRIVATE DRIVE
No SCALE

| | |
|--|----|
| Bituminous Conc. Surface | 1" |
| Bituminous Conc. Base | 2" |
| Prime | 1" |
| 4" Dense Graded Stabilized Aggregate Base Course | 4" |
| or | |
| 5" Crusher Run Base Course | 5" |

ALTERNATE PAVING SECTION (PRIVATE DRIVES & PARKING)
No SCALE



UNGROUTED RIP RAP PAVING DETAILS
No SCALE



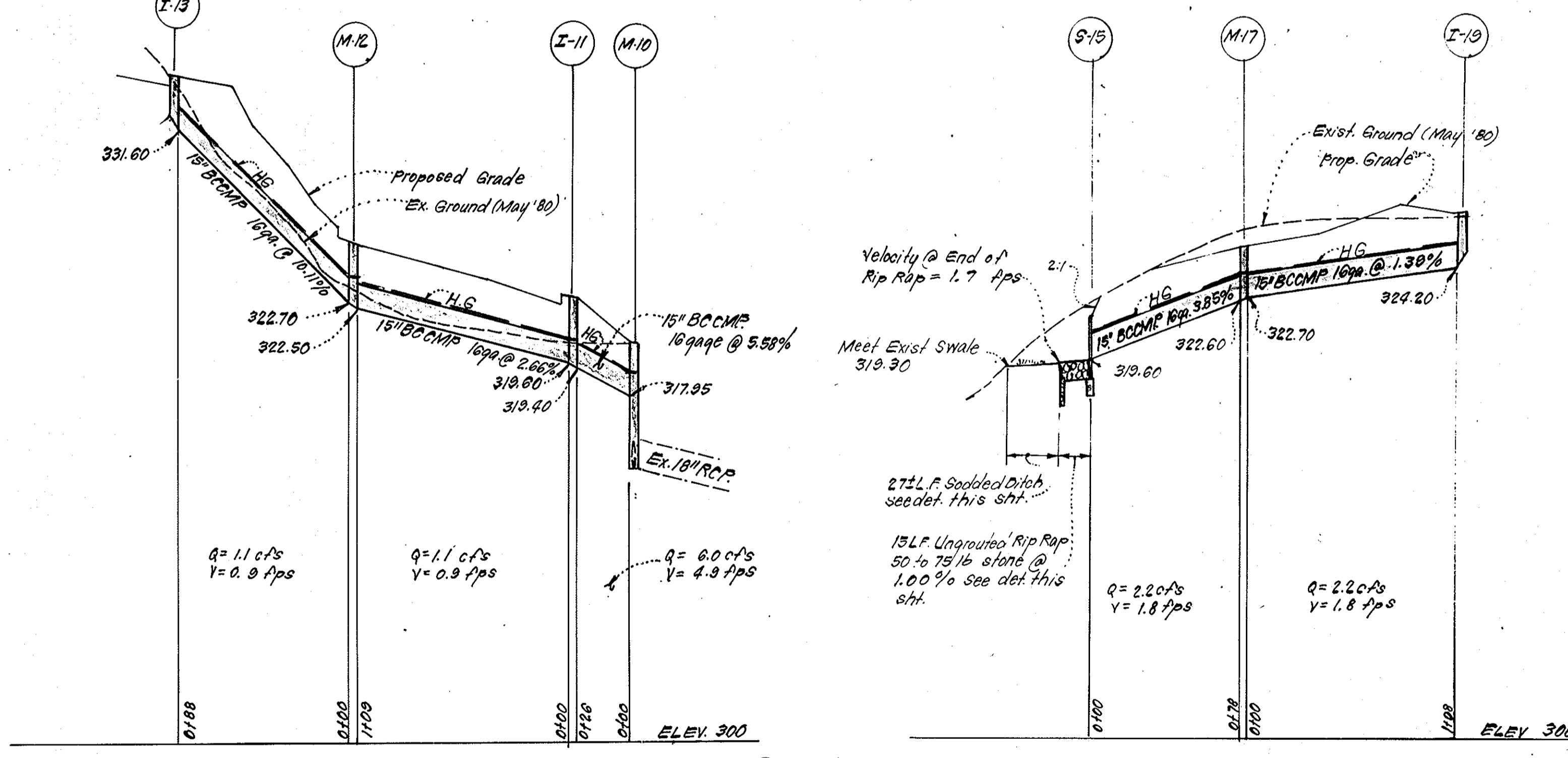
TYP. DUMPSTER AREA PLAN
No SCALE

| SIZE | TYPE | LENGTH |
|------|---------------|--------|
| 15" | RCP CLASS I | 292 LF |
| 15" | BCOMP 16 gage | 543 LF |

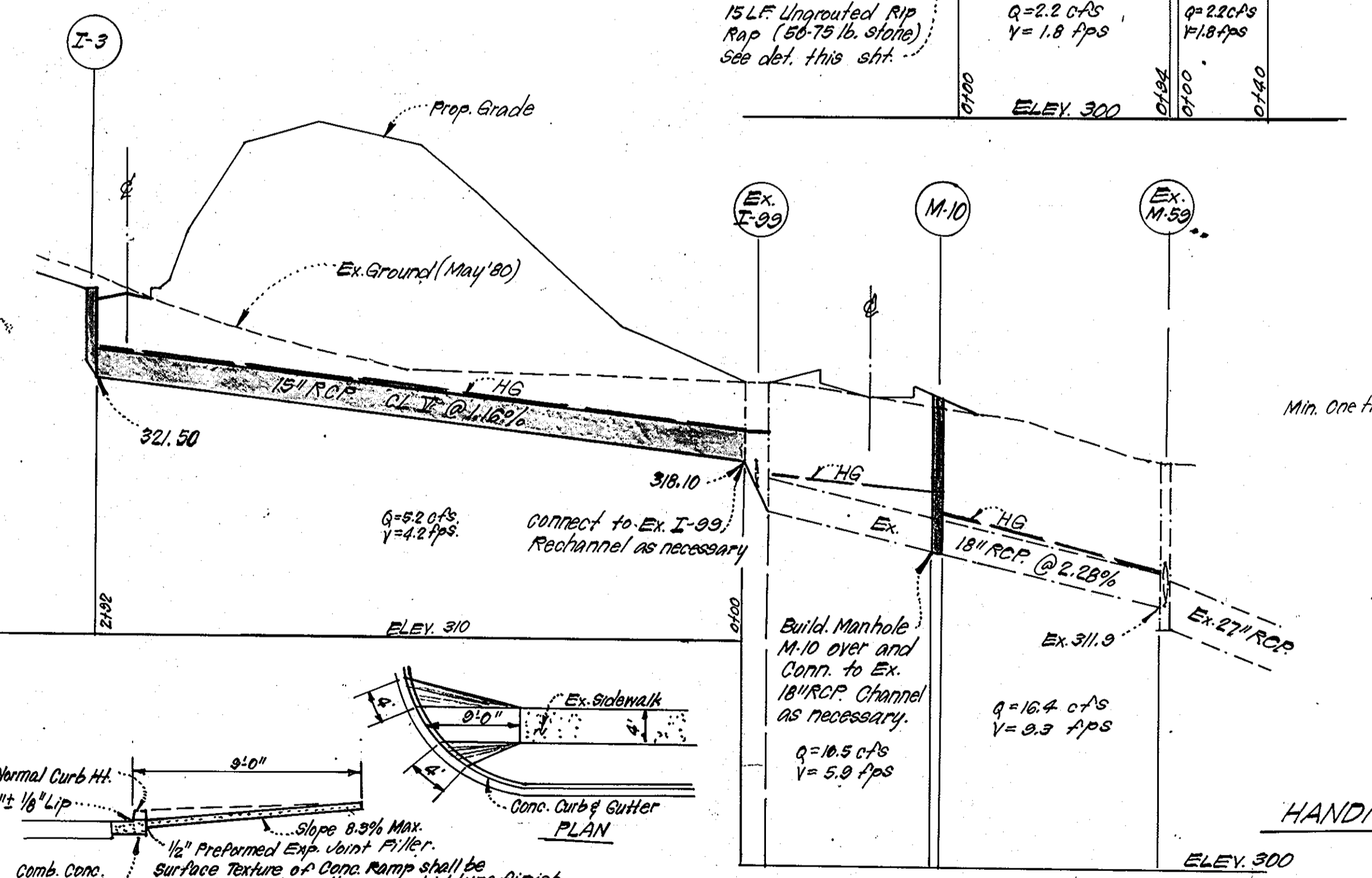
* 29 1/2" 1/2" Corrugations

| | |
|--|--------|
| Bituminous Conc. Surface | 1 1/2" |
| Bituminous Conc. Base | 4 1/2" |
| Prime | 1" |
| 6" Crusher Run Base | 6" |
| or | |
| 4 1/2" Dense Graded Stabilized Aggregate Base Course | 4 1/2" |

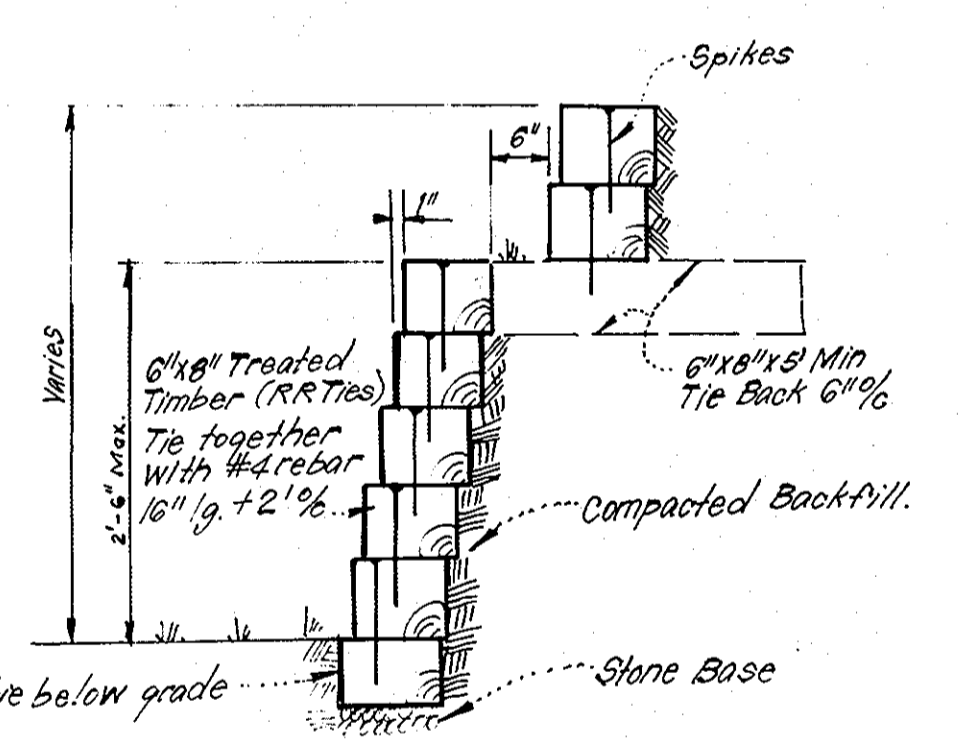
PAVING SECTION FOR PUBLIC ROADS AND ENTRANCES TO PUBLIC ROADS
No SCALE



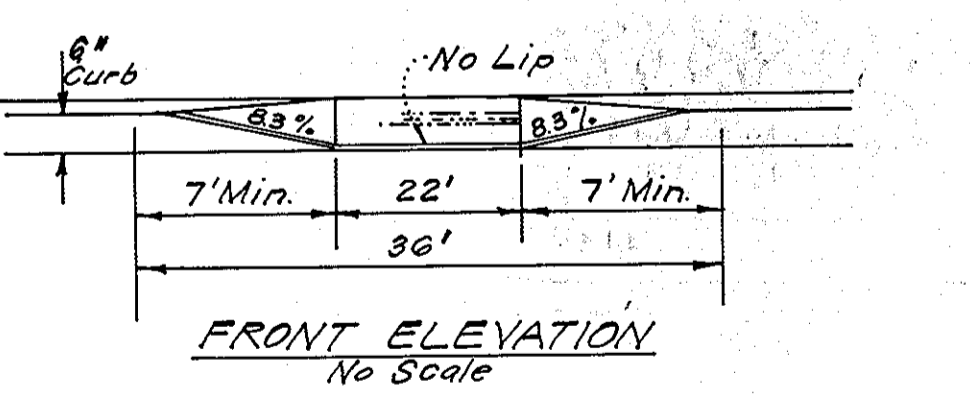
STORM DRAINAGE PROFILES



HANDICAPPED RAMP AT ENTRANCE TO ROAD
No SCALE

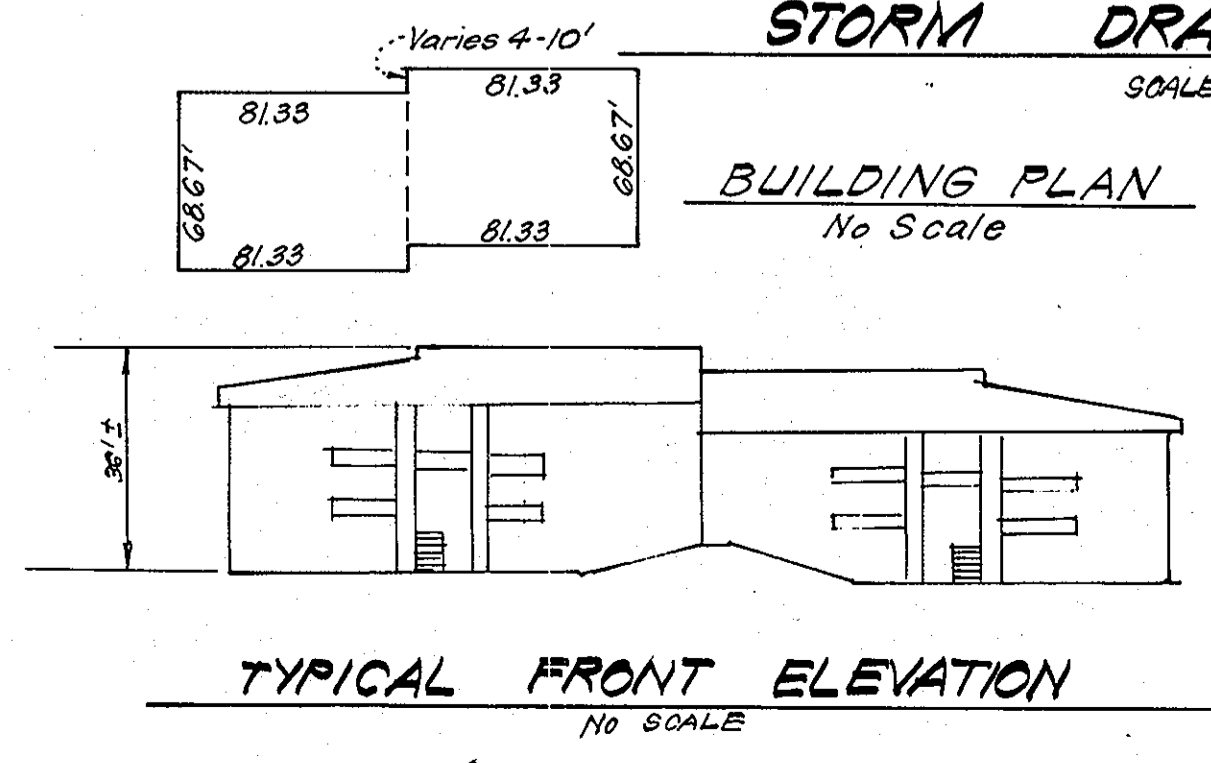


TIMBER RETAINING WALL
No SCALE



HANDICAPPED RAMP (CURB CUT TYPE) PRIVATE PARKING AREAS
No SCALE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 10-14-82
 APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 PLANNING DIRECTOR: [Signature] DATE: 10-15-82
 CHIEF DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 10-14-82
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 10-15-82

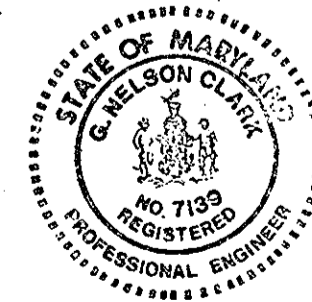


TYPICAL FRONT ELEVATION
No SCALE

Reviewed for: [Signature] S.C.D.
 As meets Technical Requirements
 [Signature] 7/28/82
 U.S. Soil Conservation Service
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT
 [Signature] 7/28/82
 Approved Date

DEVELOPER'S/SUBMITTER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.
 [Signature] 10-19-81
 Signature of Developer/Builder Date
 Canadian Development Company by Canadian Investment Corporation of Md., Mark Joseph, Pres.

APPROVED PLANNING BOARD OF HOWARD COUNTY
 DATE: 12-16-81



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.
 [Signature] 10-20-81
 G. Wilson Clark Date

OWNER: HOWARD RESEARCH & DEVELOPMENT CORP. The Rouse Building, Columbia, Maryland 21044
CLARK • FINEFROCK & SACKETT
 ENGINEERS • PLANNERS • SURVEYORS
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593 3400
 DESIGNED: B.P. SCALE: As Shown
 DRAWN: K.W. DRAWING: 2 OF 6
 CHECKED: J.L.G. JOB NO.: 80-047
 DATE: 12-14-81 FILE NO.: 80-047-X
 SITE DEVELOPMENT PLAN & PAVING PLAN PARCEL 160
COLUMBIA
 VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1
 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 FOR: CANADIAN DEVELOPMENT CO. 100 One Charles Center, Baltimore, Md 21201

TRAP# 4 S.O. ST. (ST-3)
 DA = 1.1 Acres
 Storage Required = 1,111,800 = 1980 cF
 Storage Provided = 2040 cF
 Depth = 4'
 Top of Stone Crest = 326.0
 Bottom Elev. = 322.0
 Bottom Dimensions = 24' x 11'

NOTE: Ex. Drainage in Clocktower Lane was designed to accommodate the flows generated from this development. See Drainage Area Map by Whitman-Regardt & Assoc. (F-79-44)

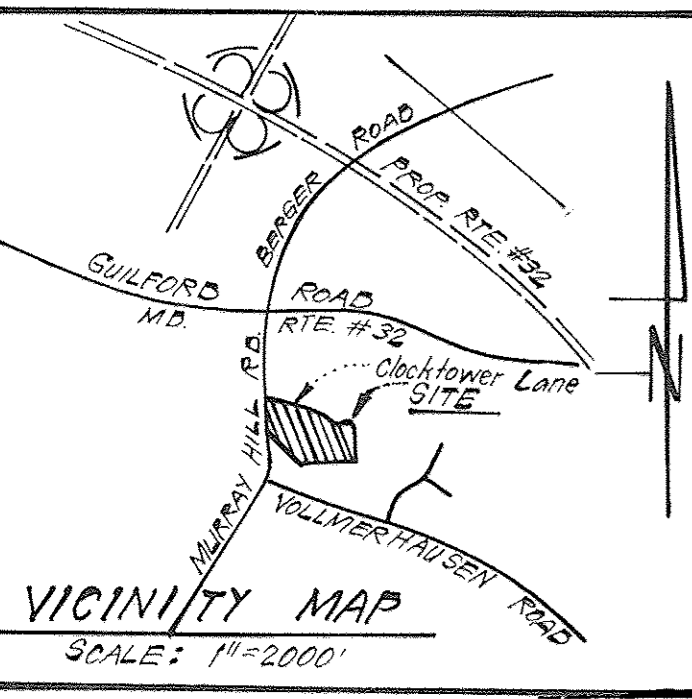
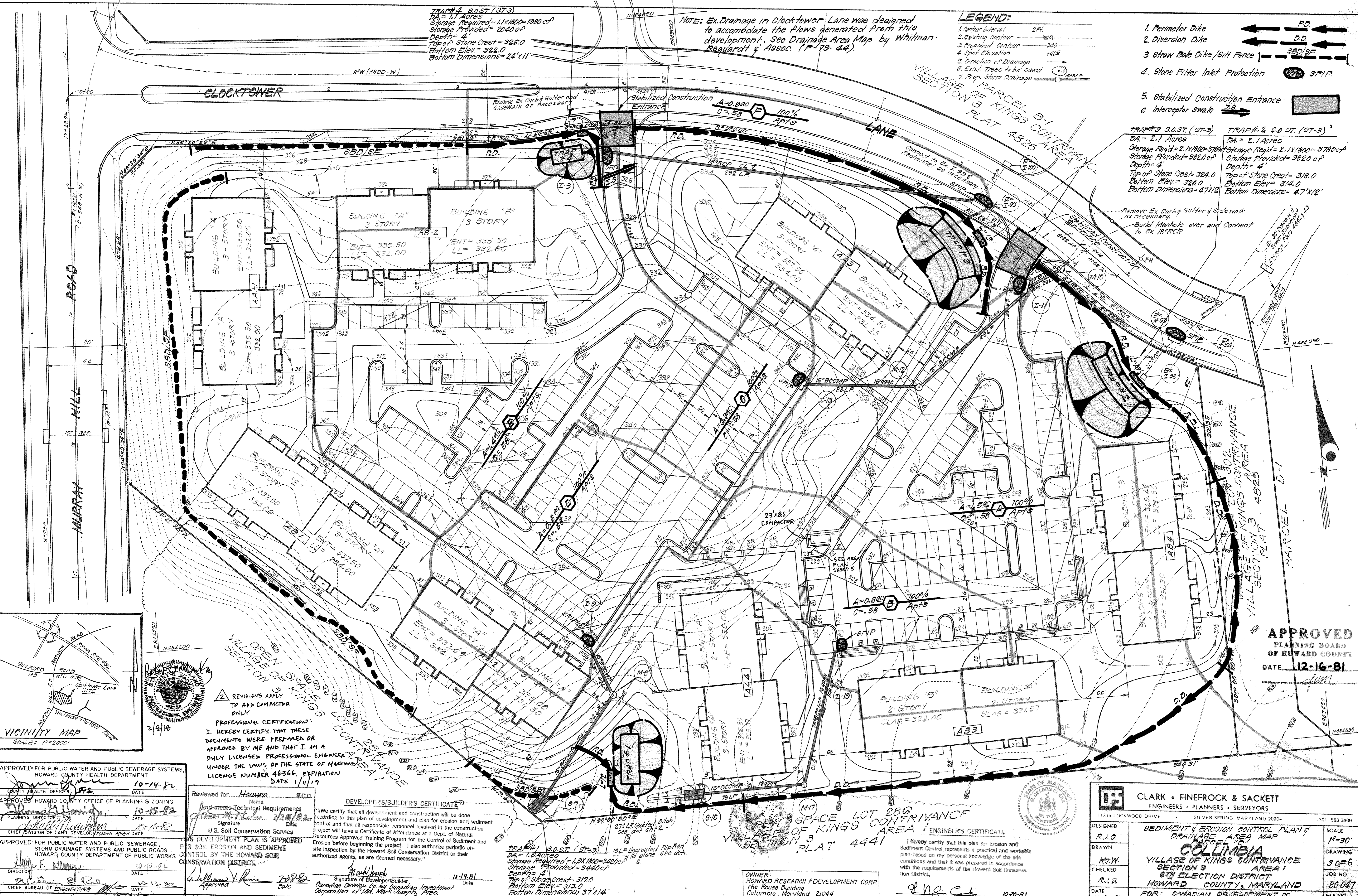
LEGEND:

1. Contour Interval 2 Ft.
2. Existing Contour 340
3. Proposed Contour 340
4. Spot Elevation +405
5. Direction of Drainage
6. Exist. Trees to be saved
7. Prop. Storm Drainage

1. Perimeter Dike
2. Diversion Dike
3. Straw Bale Dike / Silt Fence
4. Stone Filter Inlet Protection
5. Stabilized Construction Entrance
6. Interceptor Swale

TRAP# 3 S.O. ST. (ST-3)
 DA = 2.1 Acres
 Storage Req'd = 2,111,800 = 3780 cF
 Storage Provided = 3820 cF
 Depth = 4'
 Top of Stone Crest = 324.0
 Bottom Elev. = 320.0
 Bottom Dimensions = 47' x 12'

TRAP# 2 S.O. ST. (ST-3)
 DA = 2.1 Acres
 Storage Req'd = 2,111,800 = 3780 cF
 Storage Provided = 3820 cF
 Depth = 4'
 Top of Stone Crest = 318.0
 Bottom Elev. = 314.0
 Bottom Dimensions = 47' x 12'



REVISIONS APPLY TO ADD COMPACTOR ONLY

PROFESSIONAL CERTIFICATION:
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NUMBER 46366, EXPIRATION DATE 1/1/19

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 DATE 10-14-82

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DATE 10-15-82

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 10-15-82

Reviewed for...
 Name: [Signature]
 Title: [Title]
 U.S. Soil Conservation Service

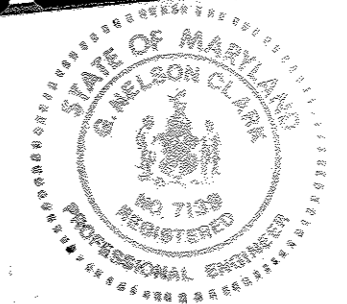
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/we certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

TRAP# 1 S.O. ST. (ST-3)
 DA = 1.2 Acres
 Storage Required = 1,211,800 = 3020 cF
 Storage Provided = 3440 cF
 Depth = 4'
 Top of Stone Crest = 317.0
 Bottom Elev. = 313.0
 Bottom Dimensions = 37' x 14'

OWNER:
 HOWARD RESEARCH & DEVELOPMENT CORP.
 The Rouse Building
 Columbia, Maryland 21044

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.



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

DESIGNED: R.J.S.
 DRAWN: R.T.W.
 CHECKED: R.J.S.
 DATE: 10-26-81

SEDIMENT & EROSION CONTROL PLAN & DRAINAGE AREA MAP
COLUMBIA
 VILLAGE OF KINGS CONTRIVANCE SECTION 3 AREA 1
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 FOR: CANADIAN DEVELOPMENT CO.
 1100 One Charles Center
 Baltimore, Md. 21201

SCALE: 1"=30'
 DRAWING: 3 OF 6
 JOB NO.: 80-047
 FILE NO.: 80-047X

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: 12-16-81

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 s.f.
- Notify the Bureau of Inspections and Permits at least 24 hrs 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 disturbed area to be stabilized in accordance with the following Specifications:
 - Seed - certified 85% germination applied at the rate of 5 lbs/1000 s.f. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.
 - Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 s.f. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 30 lbs/1000 s.f.
 - Mulch - Weed free grain straw applied at a rate of 70-80 lbs/1000 s.f. Mulch shall be secured to the ground by any approved method i.e; asphalt tacks, chemical binder, etc.
 - All Sod used shall be Maryland State Certified.
- 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 cleanout 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.
- It will be the developers responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site Waste or borrow area prior to the import of any borrow or export of waste to or from this site.
- All Pipes to be blocked at the end of each day, see detail this sheet.

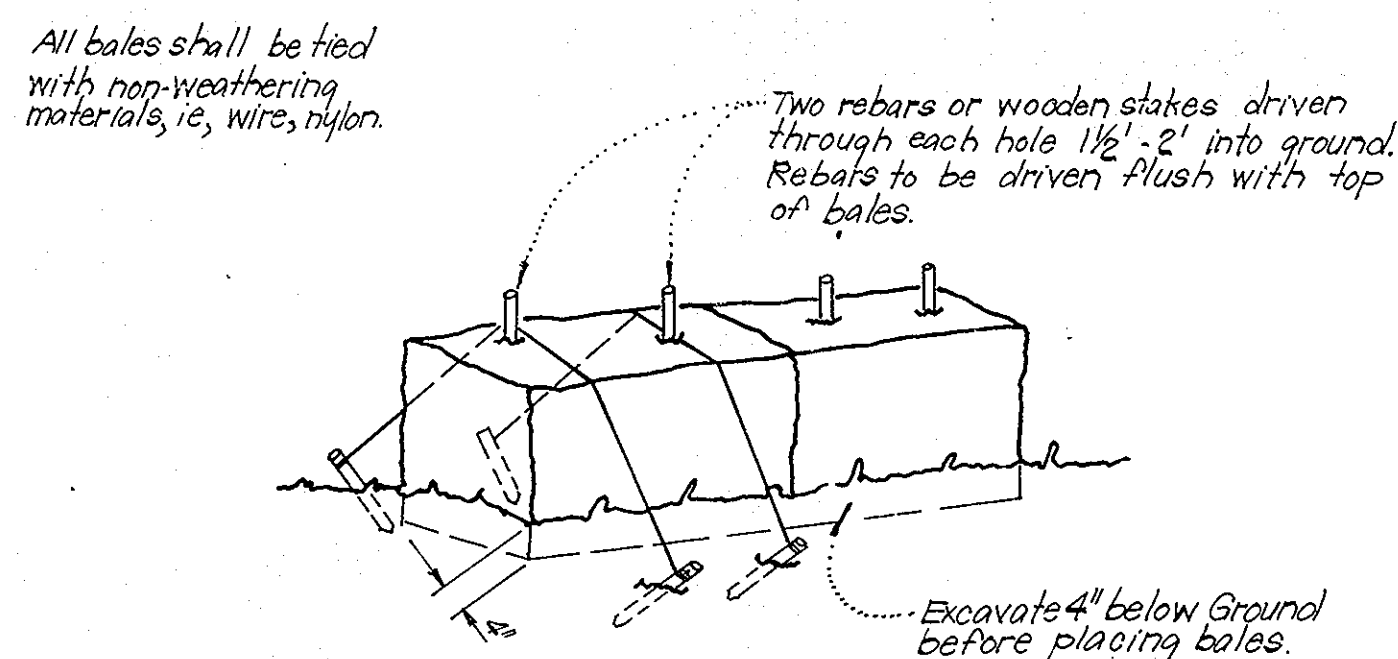
13. Total Amount of Straw Bales or Silt Fence shown = 835 LF

14. SITE ANALYSIS:

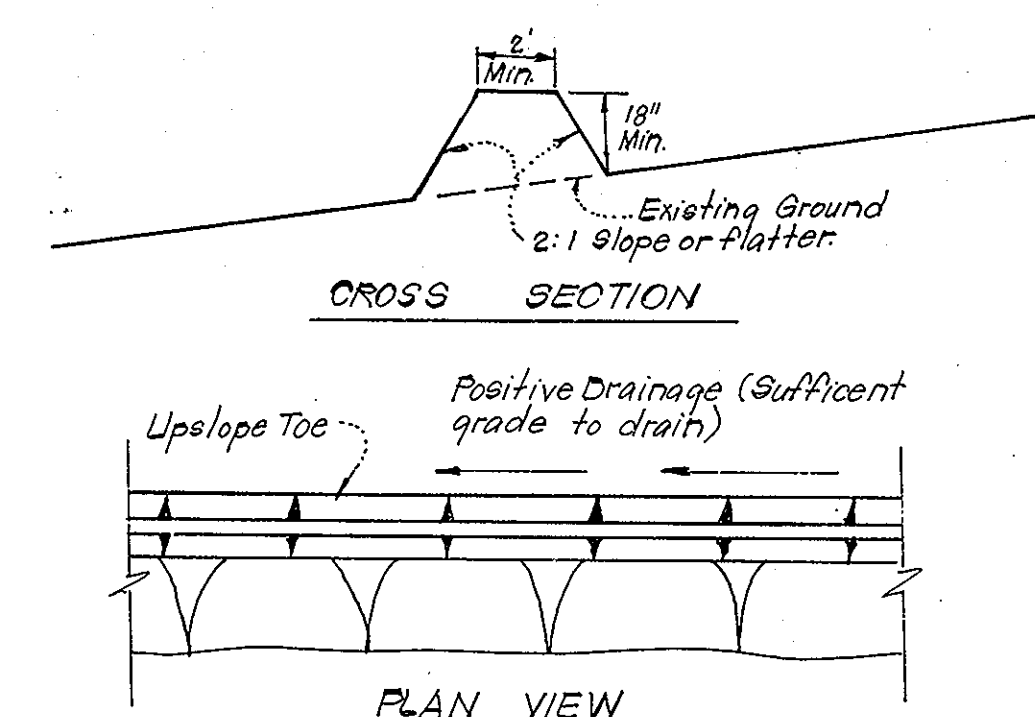
| | | |
|-----------------------|-------|-------|
| A. Total Area: | 8.332 | Acres |
| B. Area to be Roofed: | 1.524 | Acres |
| C. Area to be Paved: | 2.767 | Acres |
| D. Area to be Seeded: | 3.355 | Acres |
| E. Area Undisturbed: | 0.666 | Acres |

15. CONSTRUCTION SEQUENCE:

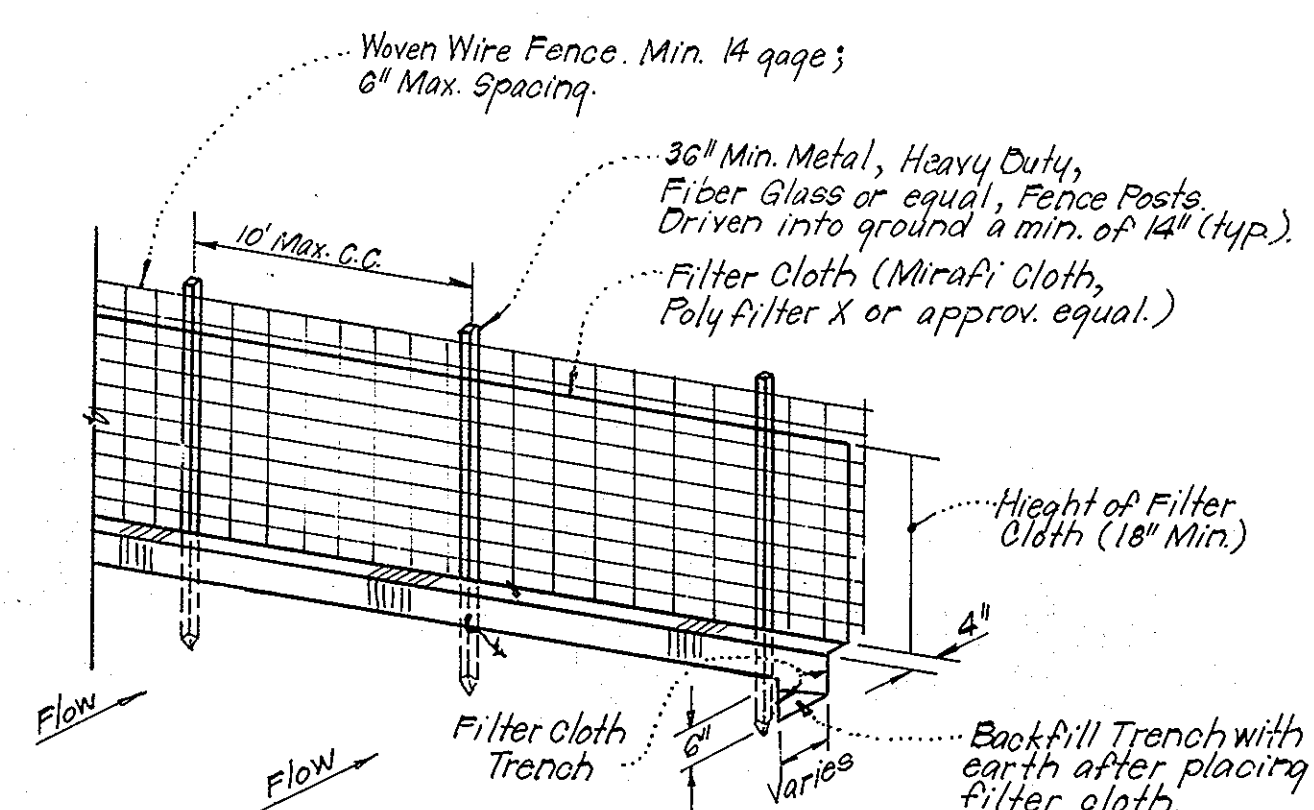
- Construct stabilized Construction Entrances, S.F.I.P.s of Ex. 2.99 & I-154 and any necessary grading.
- Construct all other sediment & erosion control measures.
- Clear & Rough Grade site.
- Construct Utilities.
- Construct storm drainage and install S.F.I.P.s.
- Fine grade and construct paving, sidewalks, buildings, etc.
- Remove Sediment & Erosion Control Measures after all areas draining to them have been stabilized.



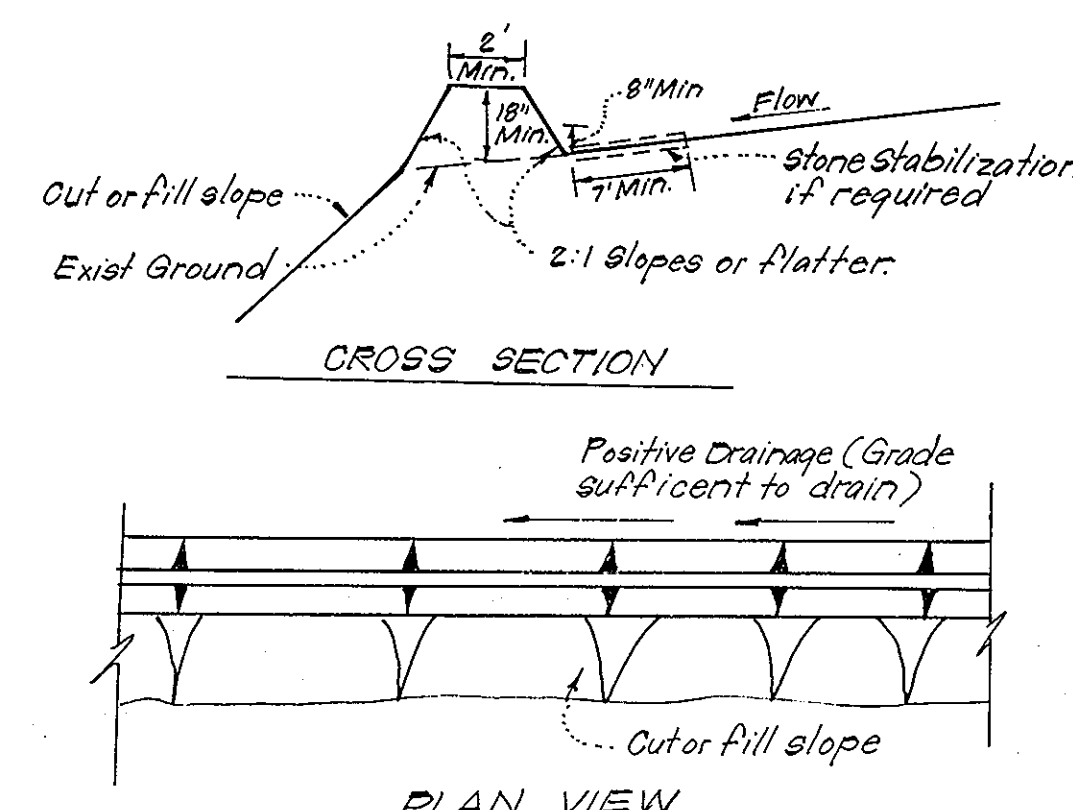
TYPICAL STRAW BALE DIKE DETAIL (S.B.D.)
No Scale



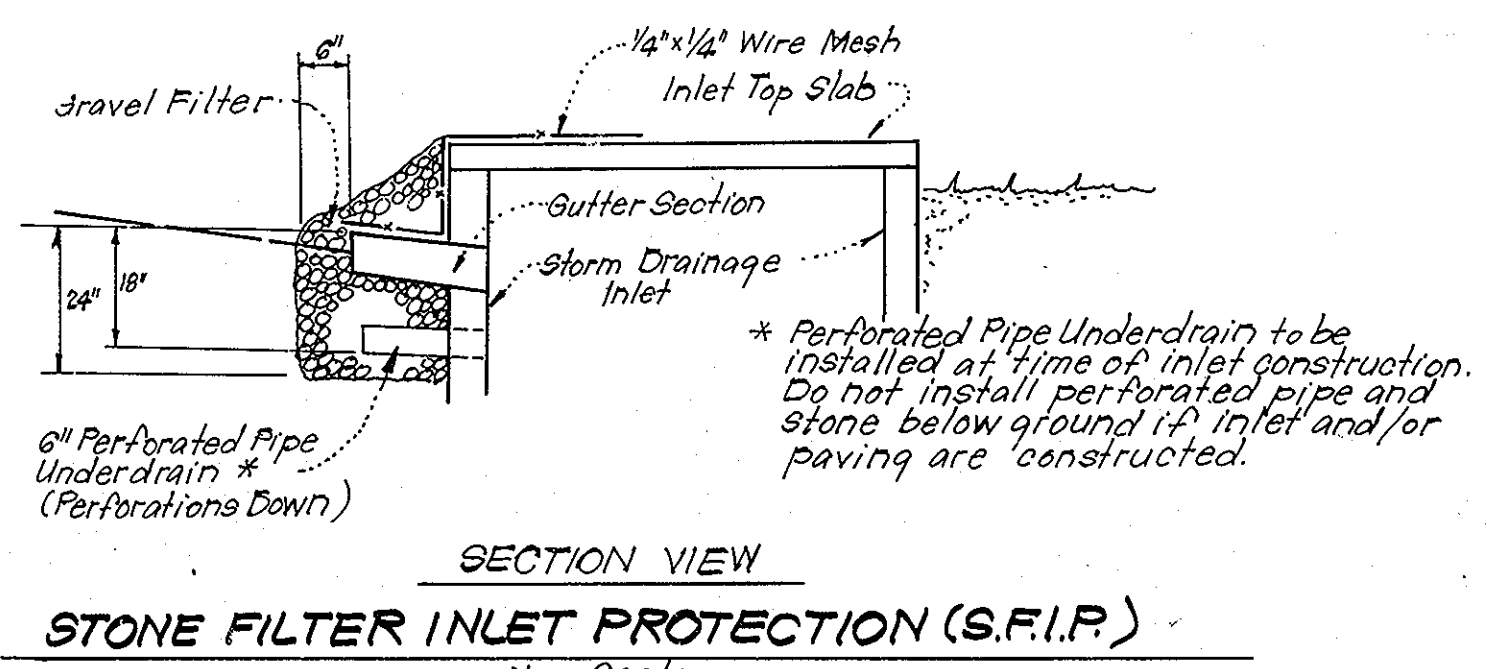
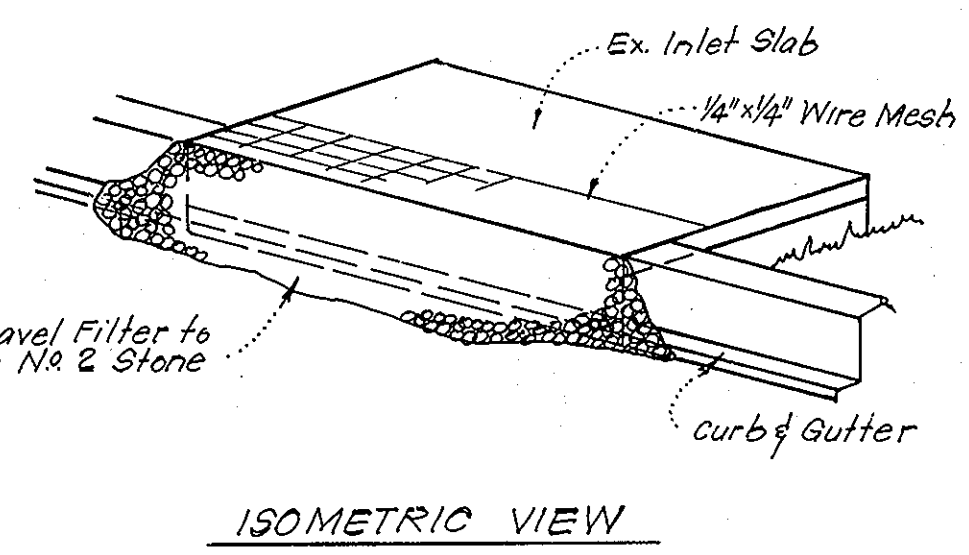
TYPICAL PERIMETER DIKE DETAIL (P.D.)
No Scale



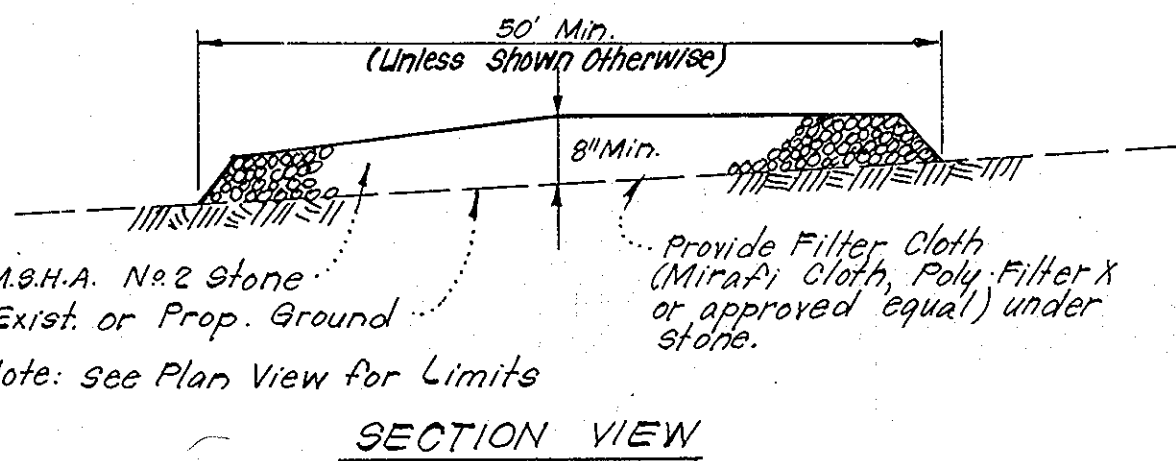
TYPICAL SILT FENCE DETAIL (S.F.)
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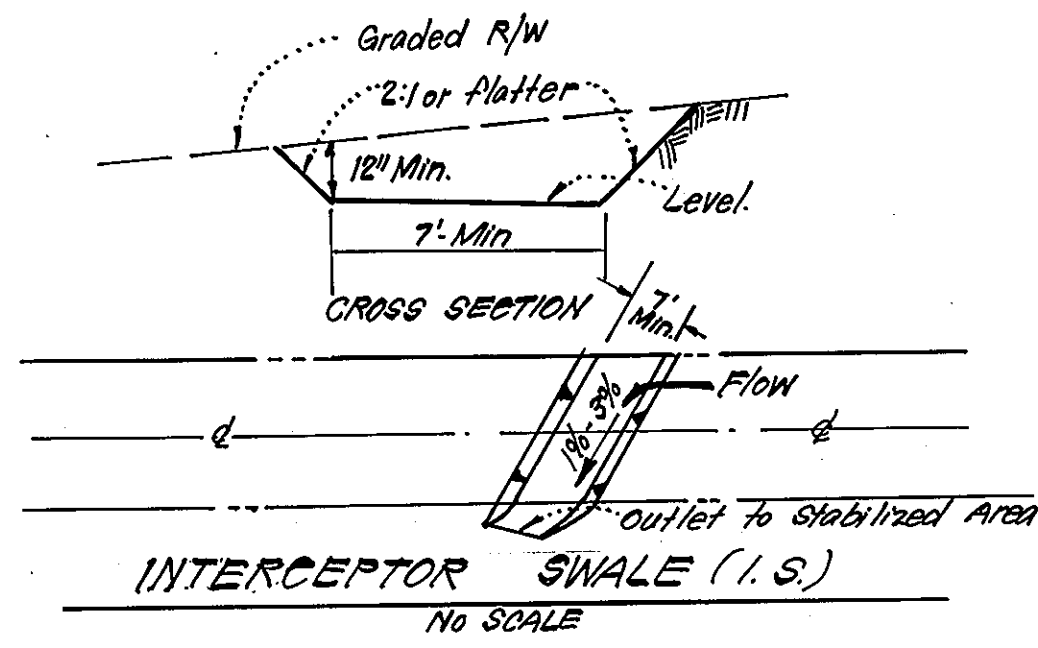
TYPICAL DIVERSION DIKE DETAIL (D.D.)
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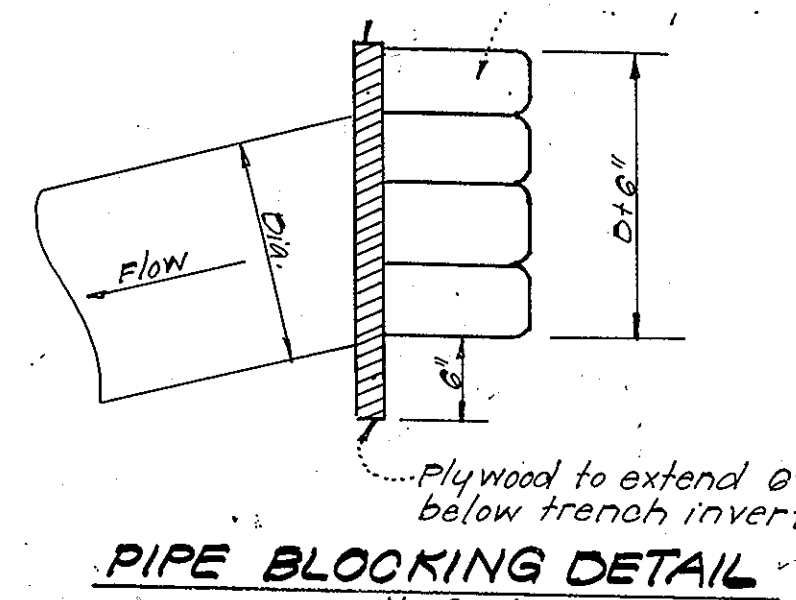
STONE FILTER INLET PROTECTION (S.F.I.P.)
No Scale



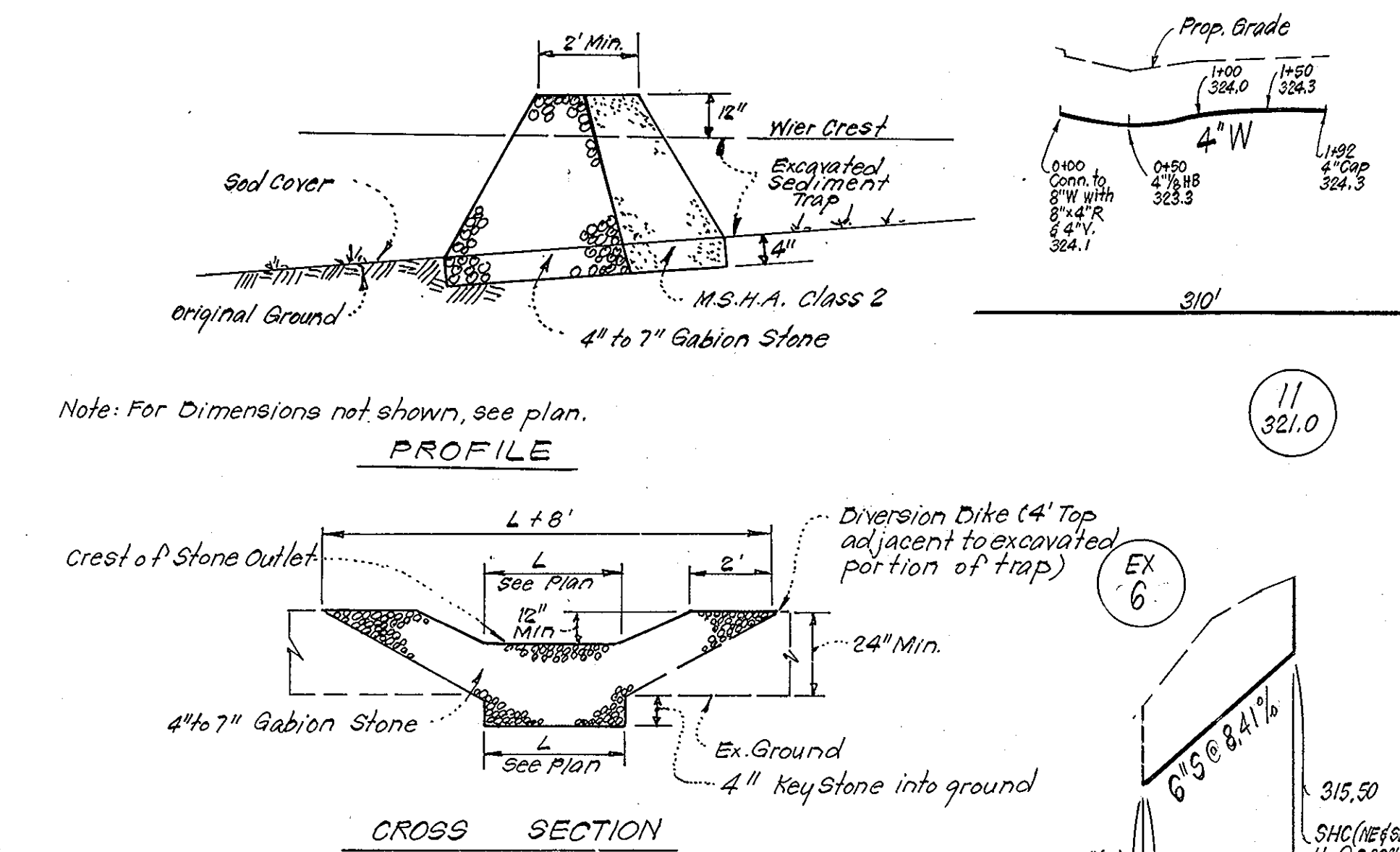
STABILIZED CONSTRUCTION ENTRANCE
No Scale



INTERCEPTOR SWALE (I.S.)
No Scale

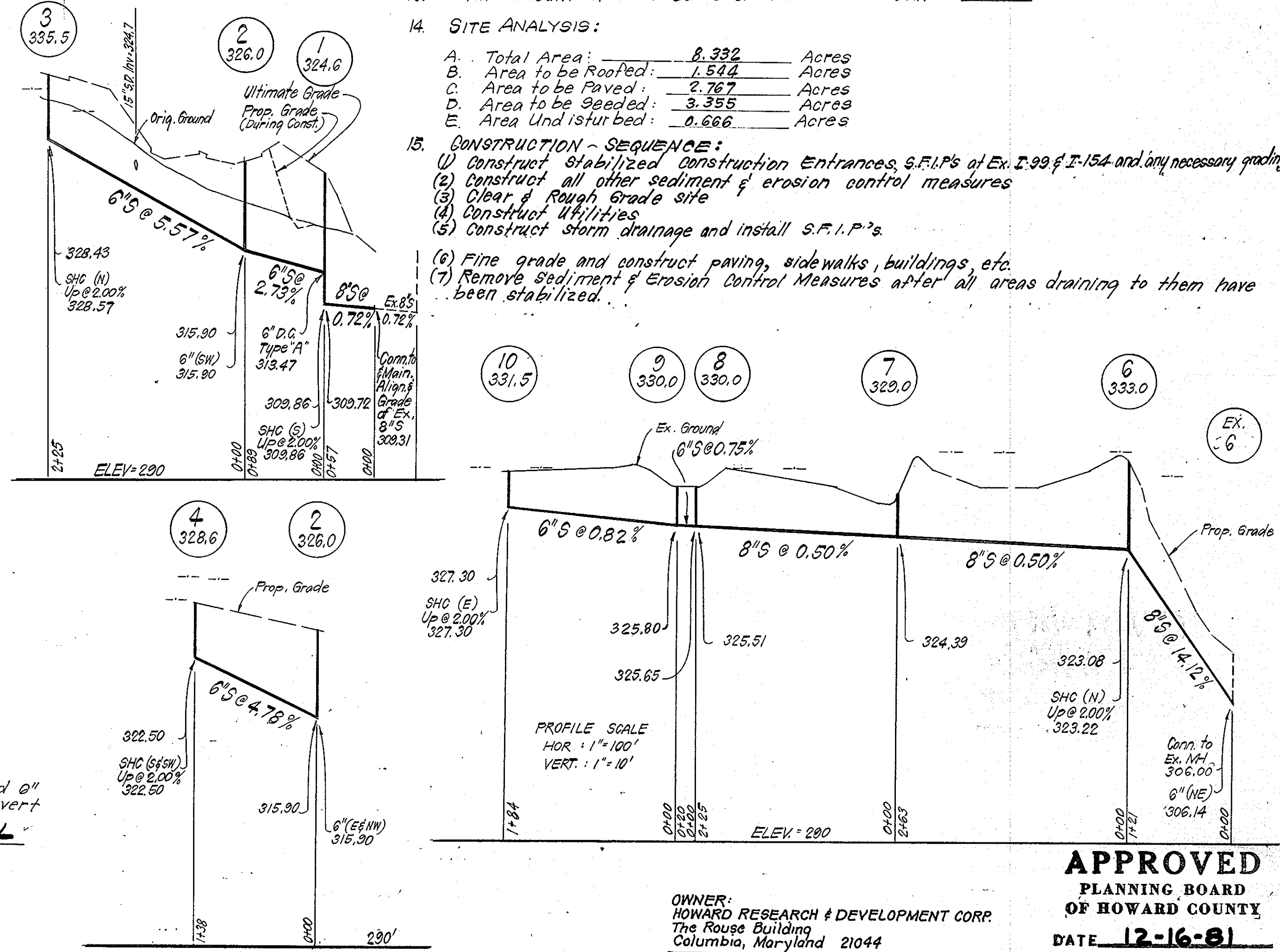


PIPE BLOCKING DETAIL
No Scale



- Notes:
- Sediment Trap to be cleaned out when sediment reaches a level of 1 ft. below crest of stone outlet.
 - Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.
 - Stone Outlet to be constructed through diversion dike adjacent to excavated portion of sediment trap.

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



WATER & SEWER NOTES

- All Sewer Mains shall be CSPX, VCPX or ACP Class 2400.
- All materials used for Water & Sewer shall be in accordance with Howard Co. Standards.
- All W&S Construction shall be performed in accordance with the 1977 Howard Co. Plumbing Code and Howard Co. Standards and Specifications.
- All Water Mains shall be C.I.P. or D.I.P.
- All Water Mains shall have a minimum of 3.5' of cover.

Reviewed for: Howard S.C.D.
Name
and meets Technical Requirements
James M. DeLo 7/20/82
Signature Date
U.S. Soil Conservation Service
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER'S/BUILDER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
Signature of Developer/Builder: Mark Joseph 10-19-81
Date
Canadian Development Co. by Canadian Investment Corp. of Md. Mark Joseph, Pres.

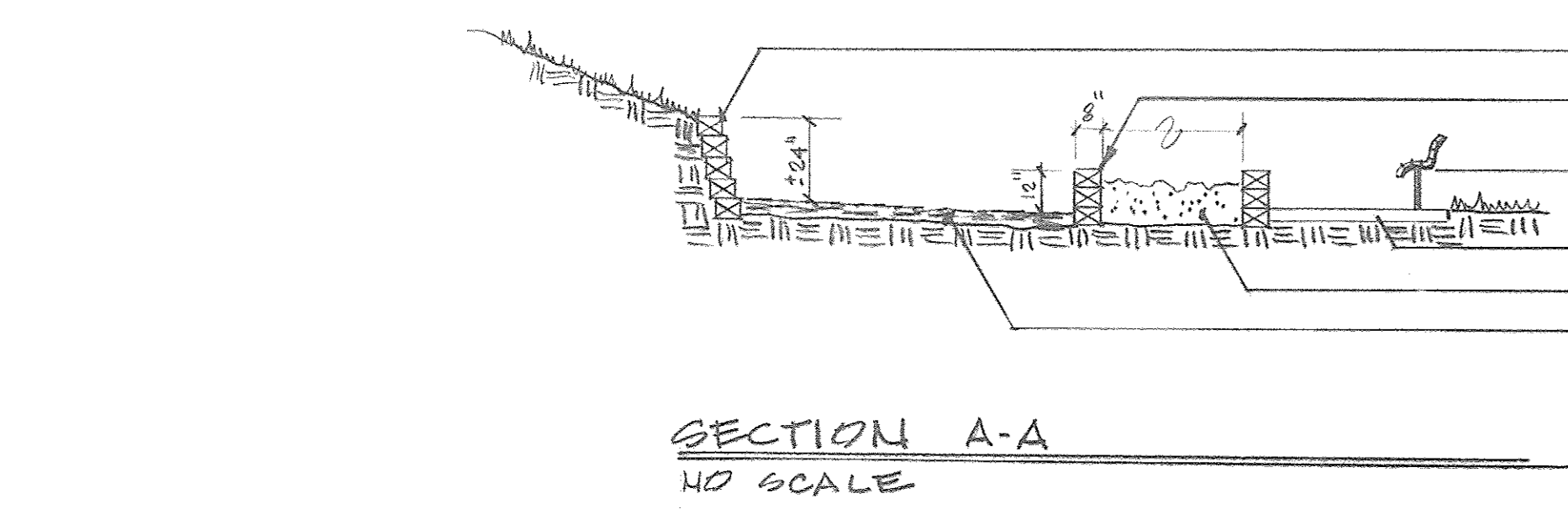
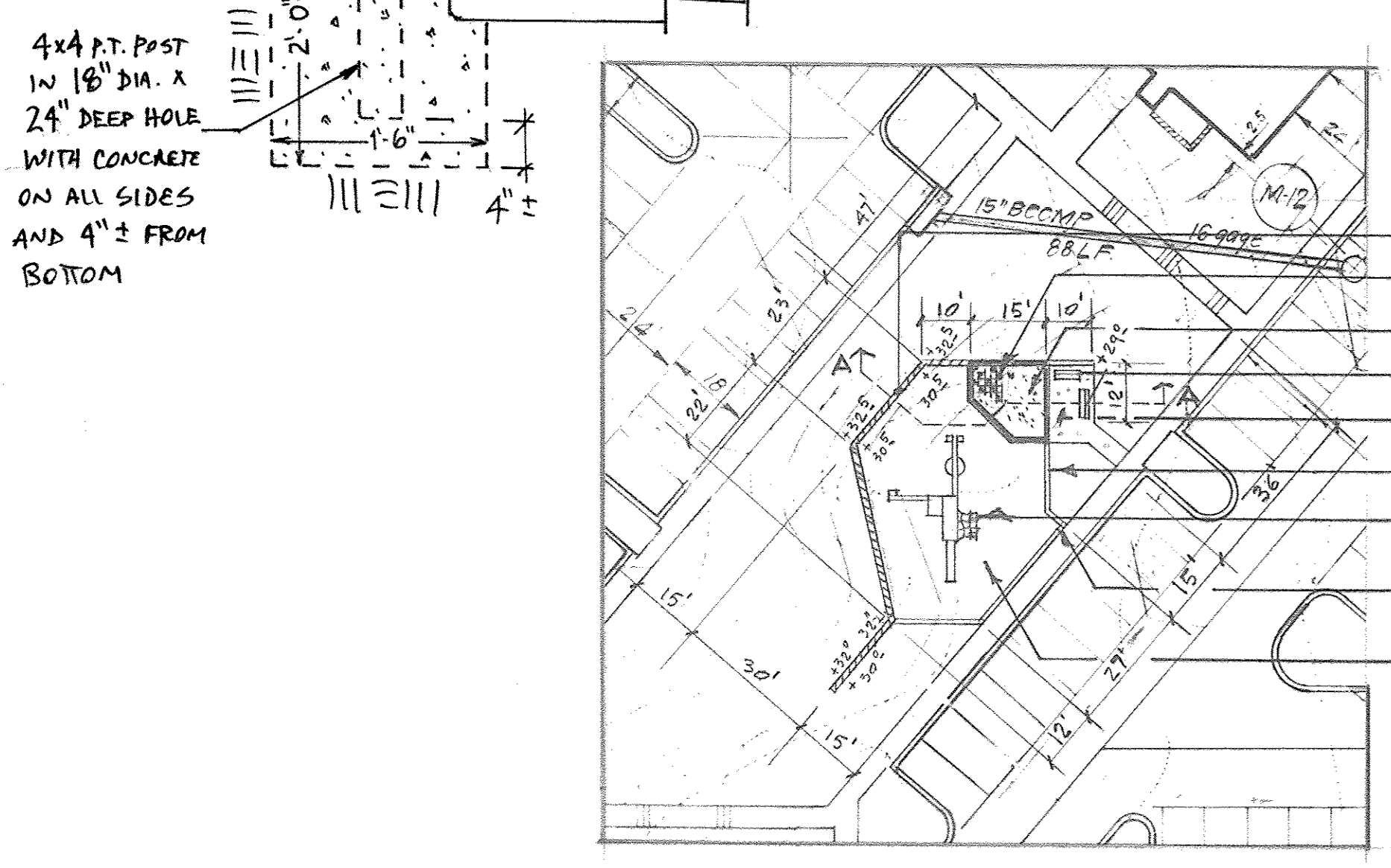
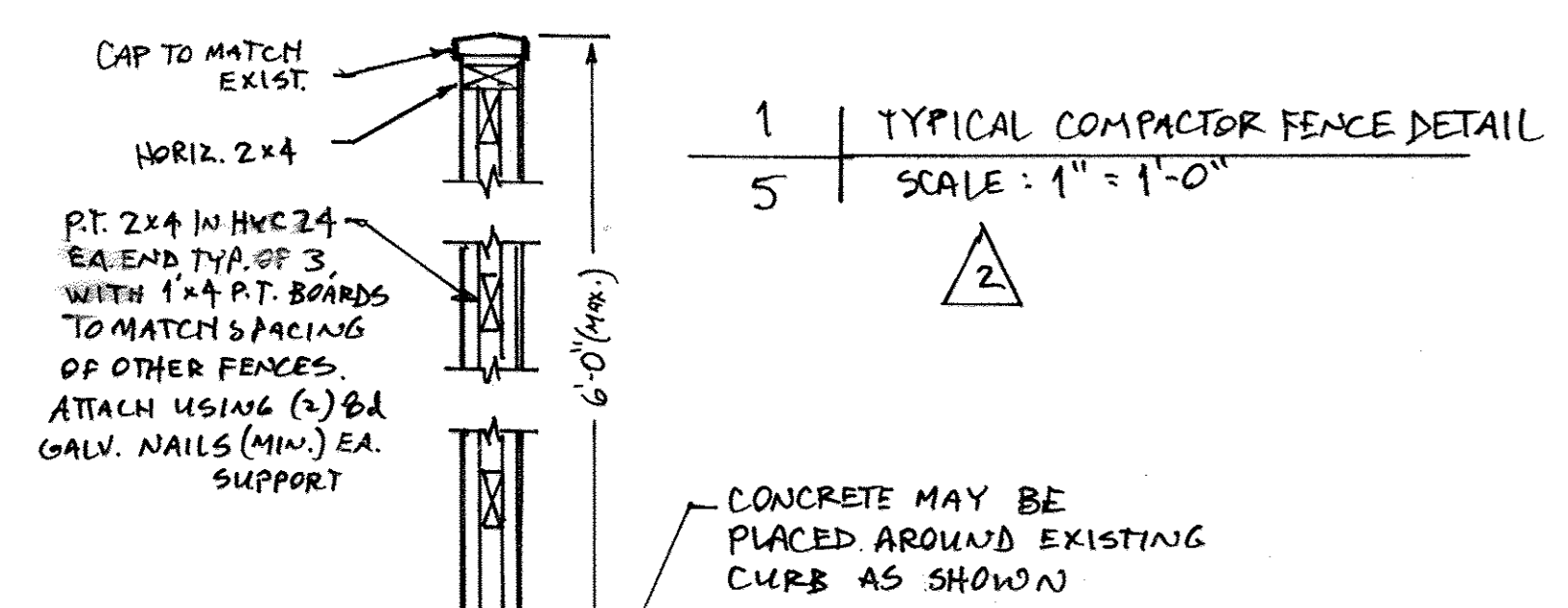
ENGINEER'S CERTIFICATE
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Signature: Clark 10-20-81
Date



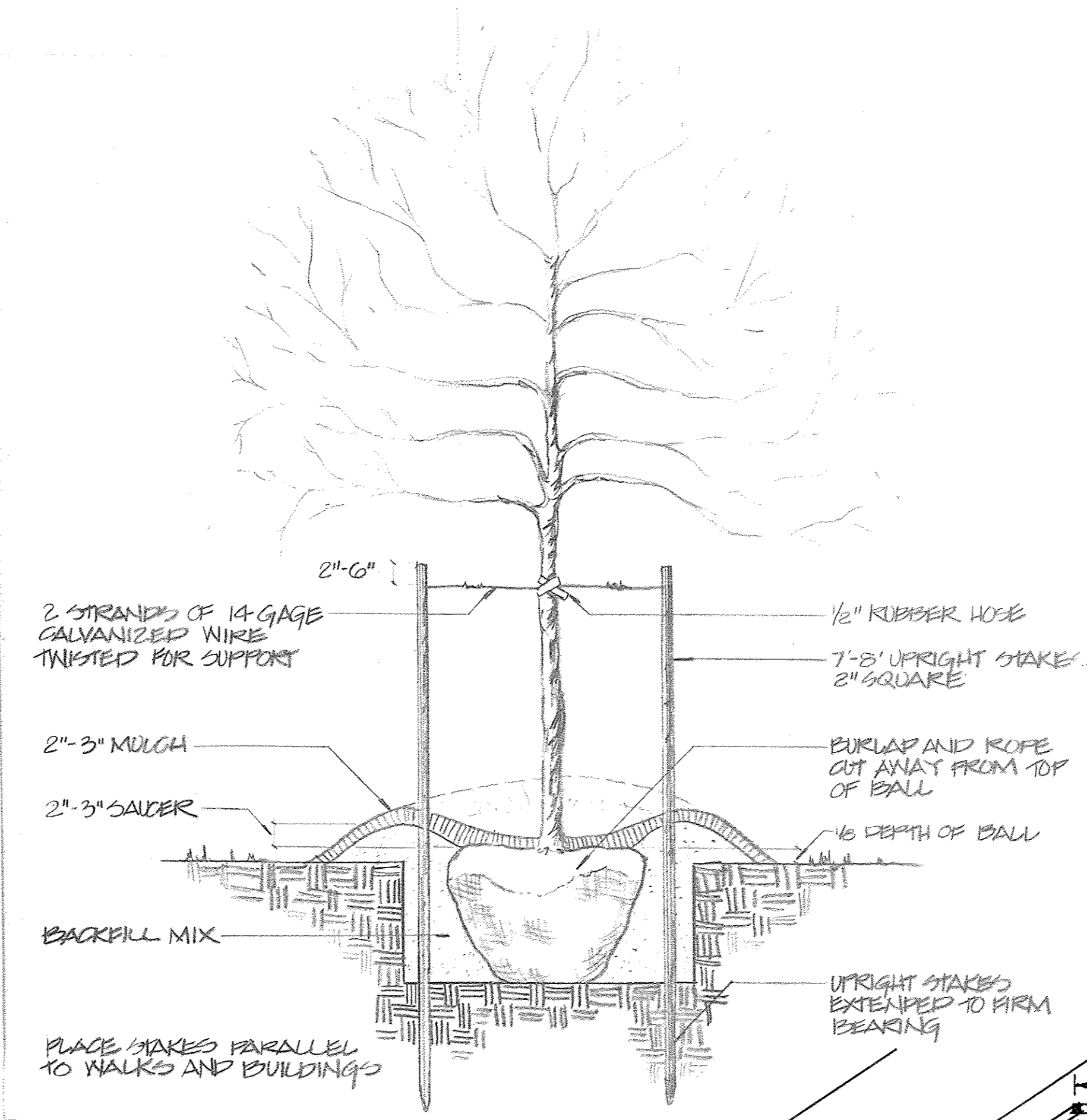
OWNER: HOWARD RESEARCH & DEVELOPMENT CORP.
The Rouse Building
Columbia, Maryland 21044
APPROVED PLANNING BOARD OF HOWARD COUNTY
DATE: 12-16-81

| | |
|---|-------------------|
| CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301) 593-3400 | |
| DESIGNED: R.J.S. | SCALE: As Shown |
| DRAWN: K.I.W. | DRAWING: 407.6 |
| CHECKED: R.J.S. | JOB NO: 80-047 |
| DATE: 10-26-81 | FILE NO: 80-047-X |
| SEDIMENT & EROSION CONTROL PLAN PARCEL 10 COLUMBIA VILLAGE OF KINGS CONTRIVANCE AREA 1 SECTION 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: CANADIAN DEVELOPMENT CO. 100 One Charles Center Baltimore, Md. 21201 | |

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [Signature] 10-14-81
DATE
APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
PLANNING DIRECTOR: [Signature] 10-15-82
DATE
CHIEF, DIVISION OF LAND DEVELOPMENT & ZONING ADMIN. DATE
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature] 10-14-82
DATE
CHIEF BUREAU OF ENGINEERING: [Signature] 10-13-82
DATE

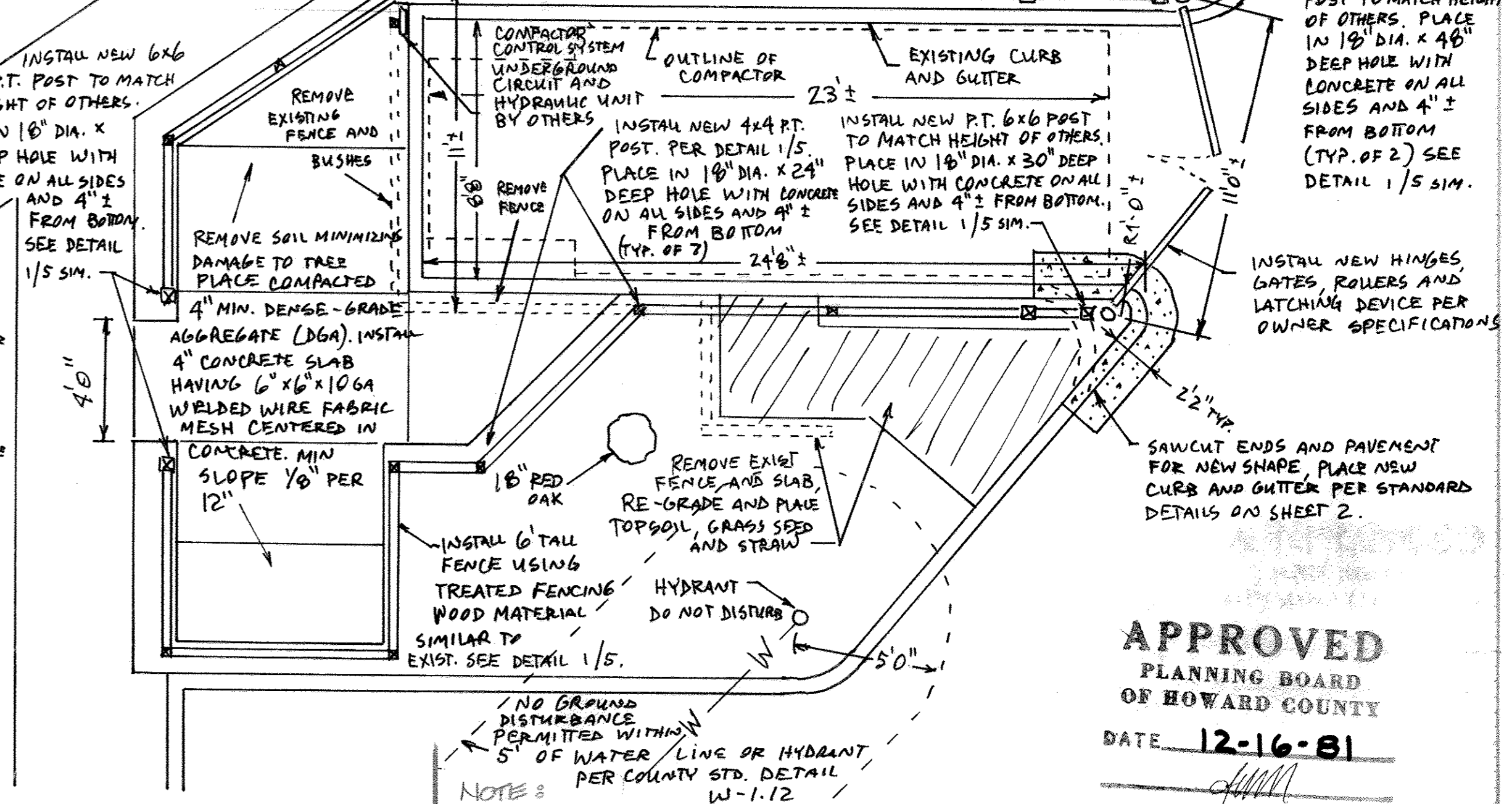


- TIMBER RETAINING WALL 2' HT ±
- POST MAZE #125 BY LANDSCAPE STRUCTURES
- SAND AREA SEE SECTION BELOW
- 2 BENCHES #076 BY LANDSCAPE STRUCTURES
- ASPHALT SURFACE 4" THK.
- 6" x 8" TIMBER EDGING
- PLAY STRUCTURE #152 BY LANDSCAPE STRUCTURES
- PROVIDE 2" NOTCH IN TIMBER EDGING FOR DRAINAGE
- 6" DP. OAK BARK MULCH



TYPICAL UPRIGHT STAKING DETAIL
NO SCALE

THIS PROJECT IS EXEMPT FROM PROVIDING STORMWATER MANAGEMENT AS THE TOTAL LOD IS 300 SQ. FT. ± ANY ADDITIONAL IMPROVEMENTS WHERE THE TOTAL CHANNUEL LOD EXCEEDS 5000 SQ. FT. CURRENT STORMWATER MANAGEMENT REQUIREMENTS SHALL BE COMPLIED WITH. DISTURBANCES ARE LIMITED TO CURB/GUTTER LOCATION CHANGE, REMOVAL OF SIDEWALKS, INSTALLATION OF NEW SIDEWALKS, AND RELOCATION OF FENCES.



NOTE:
NO GROUND DISTURBANCE PERMITTED WITHIN 5' OF WATER LINE OR HYDRANT PER COUNTY STD. DETAIL W-1.12.
ALL PLANTING SHALL BE IN COMPLIANCE WITH ATTACHED SPECIFICATIONS.
CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO EXCAVATING. CALL 'MISS' UTILITY.
SUBSTITUTIONS MAY BE PERMITTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT. (33) 29400.

| KEY | PLANT NAME | SIZE | QUANT | REMARKS |
|-----|--|-------------------------|-------|-----------------|
| ⊕ | ACER RUBRUM 'OCTOBER GLORY' | 2 1/2-3" GAL 12-14' HT. | 61 | D/D HEAVY HEADS |
| ⊕ | QUERCUS PALUSTRIS PINI OAK | 2 1/2-3" GAL 12-14' HT. | 52 | " " " |
| ⊕ | QUERCUS RUBRA (BOREALIS) NORTHERN RED OAK | 2 1/2-3" GAL 12-14' HT. | 21 | " " " |
| ⊕ | PRUNUS SERRULATA 'KWANZANI' KWANZANI FLOWERING CHERRY | 2-2 1/2" GAL 8-10' HT. | 37 | D/D HEAVY HEADS |
| ⊕ | MAULS 'AMERICAN BEAUTY' AMERICAN BEAUTY CRABAPPLE | 2-2 1/2" GAL 8-10' HT. | 30 | " " " |
| ⊕ | CRATAEGUS MENHORENENSIS 'THORNBERRY' TORO HAWTHORN | 2-2 1/2" GAL 8-10' HT. | 22 | " " " |
| ⊕ | ACER GINNALA AMUR MAPLE | 2-2 1/2" GAL 8-10' HT. | 22 | " " " |
| ⊕ | PRUNUS CERASIFERA 'HUNDREDCLOUD' PURPLELEAF FLOWERING PLUM | 2-2 1/2" GAL 8-10' HT. | 15 | " " " |
| ⊙ | FINUS THUNDERGII JAPANESE BLACK PINE | 6-7' HT. | 52 | D/D HEAVY |
| ⊙ | FINUS THUNDERGII JAPANESE BLACK PINE | 7-8' HT. | 43 | " " " |
| ⊙ | FINUS STROBUS WHITE PINE | 6-7' HT. | 22 | " " " |
| ⊙ | FINUS STROBUS WHITE PINE | 7-8' HT. | 17 | " " " |

APPROVED
PLANNING BOARD
OF HOWARD COUNTY
DATE 12-16-81

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
J. H. T. 10-14-82 DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
J. H. T. 10-15-82 DATE
PLANNING DIRECTOR
J. H. T. 10-15-82 DATE
CHIEF DIVISION OF LAND AND DEVELOPMENT & ZONING ADMINISTRATION.
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
J. H. T. 10-14-82 DATE
DIRECTOR
J. H. T. 10-15-82 DATE
CHIEF BUREAU OF ENGINEERING

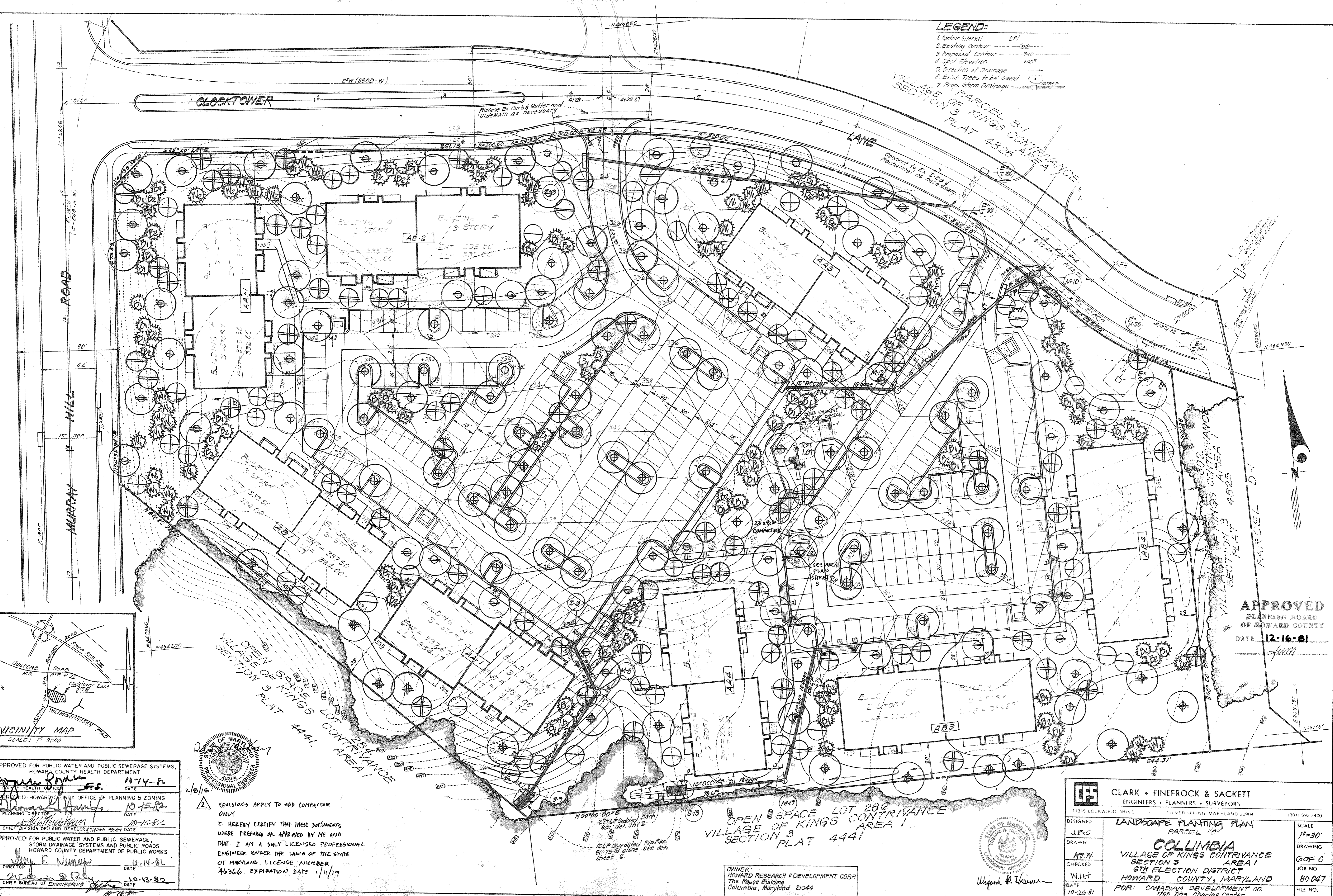
PROFESSIONAL CERTIFICATION:
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 46366. EXPIRATION DATE 1/11/19
W. J. P. Thorne

CLARK • FINEPROCK & SACKETT
ENGINEERS • PLANNERS • SURVEYORS
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904
DESIGNED BY W. J. T.
DRAWN BY W. J. T.
CHECKED BY W. J. T.
DATE 10-26-81
SCALE 50' OF 8
JOB NO. 80-047
FILE NO. 80-047B

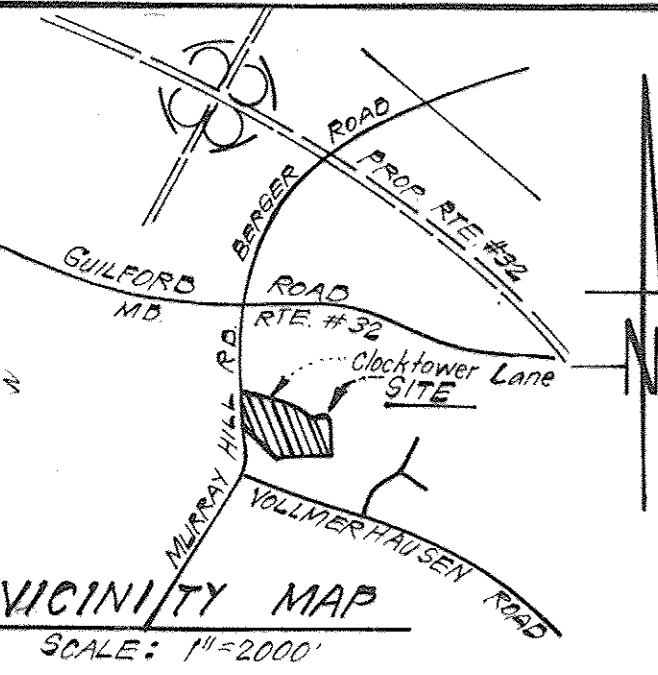
LEGEND:

- 1. Contour Interval 2.0'
- 2. Existing Contour 340
- 3. Proposed Contour 340
- 4. Spot Elevation +405
- 5. Direction of Drainage
- 6. Exst. Trees to be Saved
- 7. Prop. Storm Drainage

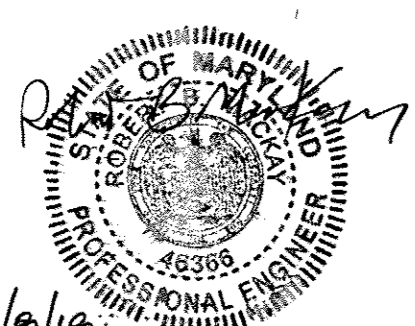
PARCEL 3-1 CONTRIVANCE
 VILLAGE OF KINGS CONTRIVANCE
 SECTION 3 PLAT 4425 AREA 1



APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE 12-16-81



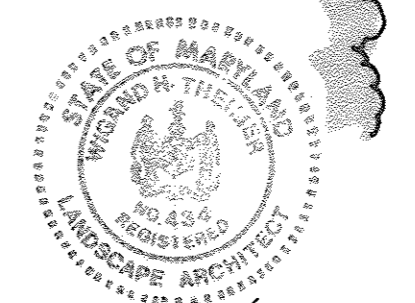
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE 11-14-81
 APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
 DATE 10-15-82
 APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 10-14-82
 DATE 10-13-82



REVISIONS APPLY TO ADD COMPACTOR ONLY
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 46366. EXPIRATION DATE 1/11/19

OPEN SPACE LOT 286
 VILLAGE OF KINGS CONTRIVANCE
 SECTION 3 PLAT 4441

OWNER:
 HOWARD RESEARCH & DEVELOPMENT CORP.
 The Rouse Building
 Columbia, Maryland 21044



| | | |
|--|--|----------------------|
| CLARK • FINEROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE • OLIVER SPRING, MARYLAND 21094 • (301) 593 3400 | | |
| DESIGNED J.B.C. | LANDSCAPE PLANTING PLAN PARCEL 1101 | SCALE 1"=30' |
| DRAWN R.W.H. | COLUMBIA VILLAGE OF KINGS CONTRIVANCE SECTION 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND | DRAWING GOF 6 |
| CHECKED W.H.T. | | JOB NO. 80-047 |
| DATE 10-26-81 | FOR: CANADIAN DEVELOPMENT CO. 1100 One Charles Center Baltimore, Md 21201 | FILE NO. 80-04712 |