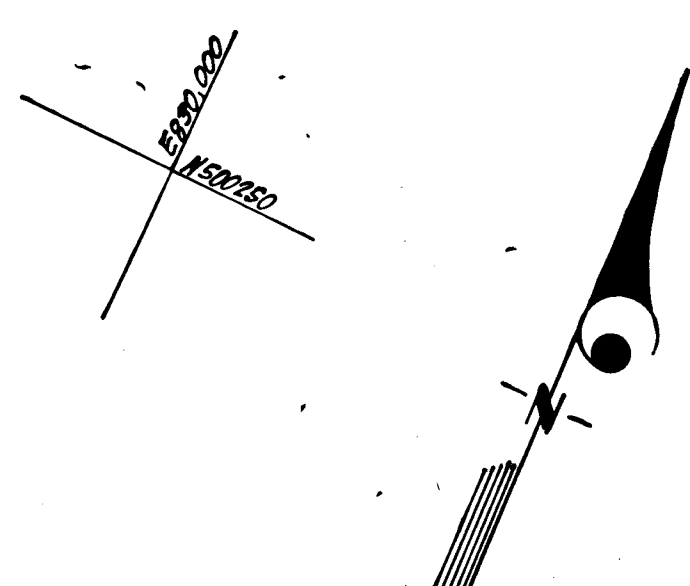
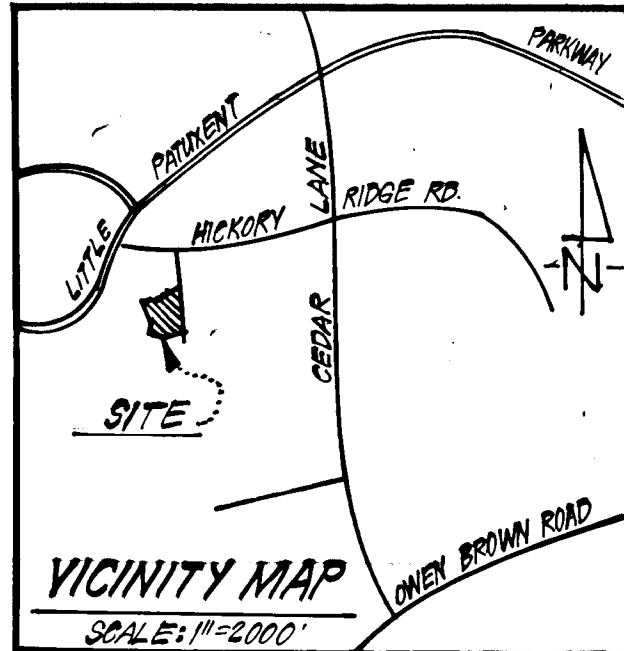
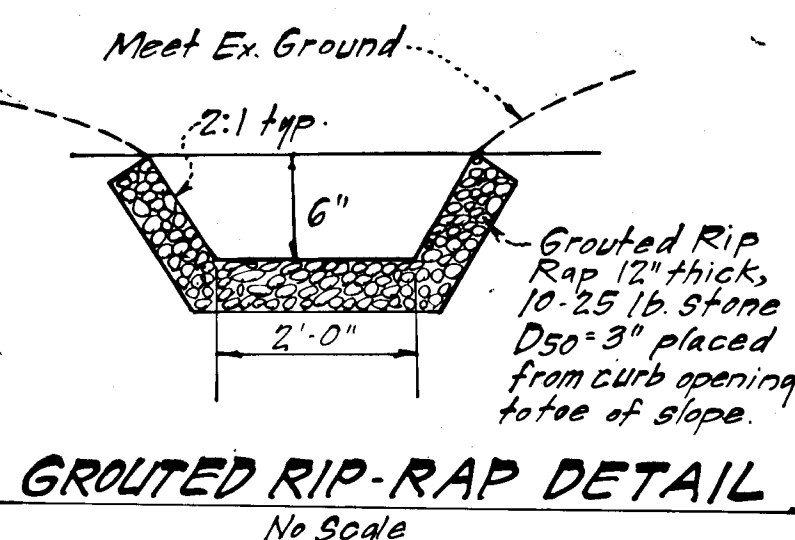


PARCEL 10.3  
VILLAGE OF HICKORY RIDGE  
SECTION 3  
AREA 2



**CURB & GUTTER LEGEND**  
 Sid 7" Comb. C&G  
 Rev. 7" Comb. C&G  
 Sid 6" Comb. C&G  
 Rev. 6" Comb. C&G



Reviewed for HOWARD COUNTY S.C.D.  
 and the General Requirements  
 of the U.S. Soil Conservation Service  
 U.S. Soil Conservation Service  
 Date: 2-1-84

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

Signature of Developer/Builder  
 Date: 1-31-84

Note: FOR STORM DRAINAGE & PAVING  
 IN WATCH CHAIN WAY SEE APPROVED  
 ROAD CONSTRUCTION PLANS F-83-126.

"I hereby certify that all development and construction will be done  
 according to the plan of development and plan for erosion and sediment  
 control and that all responsible personnel involved in the construction  
 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  
 Date: 1-30-84

ENGINEERS 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.

Signature of Engineer  
 Date: 1-17-83

- GENERAL NOTES:**
- All storm drain and paving shall be constructed in accordance with the latest details and specifications of Howard Co. and Md. S.H.A.
  - Types of storm drain structures refer to the Standard Details of Howard County & Maryland State Highway Administration.
  - Trench compaction for storm drains within Road or street right-of-way limits shall be in accordance with Howard County Design Manual, Volume IX.
  - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation of the mains by digging test pits, by hand, at all utility crossings, well in advance of construction.
  - All utility companies shall be notified 24 hrs. in advance of construction.
  - All traffic control services parking and signing to be done in accordance with the "Manual of Uniform Traffic Control Devices," 1971 Edition.
  - Sag and Crest Vertical curves were designed in accordance with "A Policy on Geometric Design of Rural Highways", 1965, by AASHTO.
  - Provide concrete sidewalk ramps in curbs, where shown in plan. See Ho. Co. Std. Type A, R 4.0, except where shown.
  - Design Speed: 30 mph, 50' R/W. Zoning: New Town, Single Family Attached.
  - Class C Trench bedding shall be used for all storm drainage construction, unless otherwise noted. See Ho. Co. Std. SD 2.03.
  - Bench mark located to the west of Watch Chain Way 322 feet on a railroad spike in a 27' poplar tree. Bench Mark elevation 427.42. See Sheet 3 of 3.

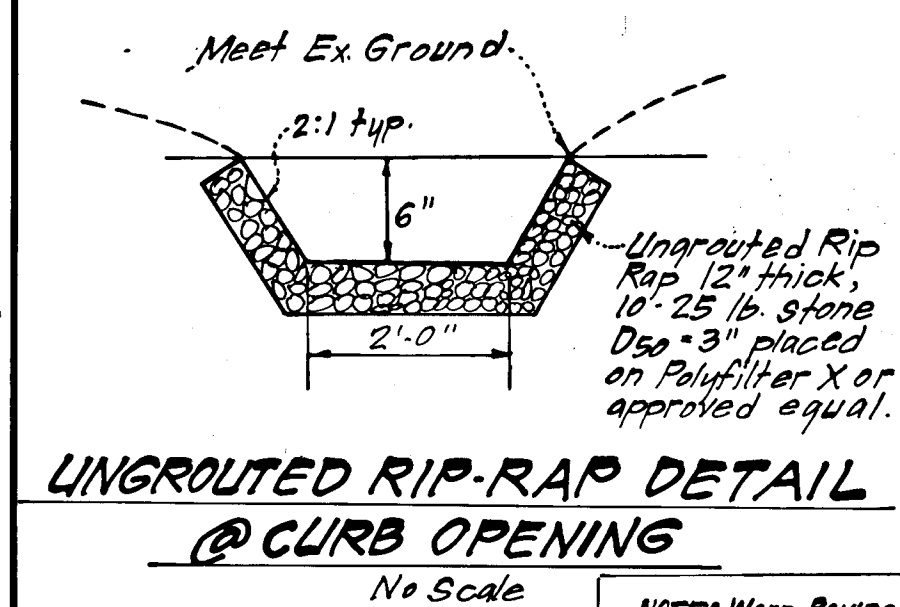
APPROVED: Department of Public Works  
 Signature  
 Date: 2-3-84

APPROVED: Howard County Office of Planning & Zoning  
 Signature  
 Date: 2-3-84

**CLARK FINEFROCK & SACKETT**  
 ENGINEERS PLANNERS SURVEYORS  
 11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301)593400

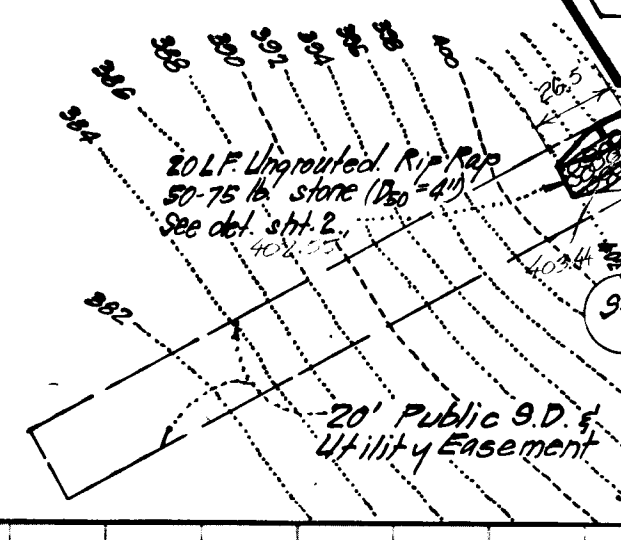
DESIGNED	WJS	SCALE	AS SHOWN
DRAWN	WJS	DRAWING	10F3
CHECKED	WJS	JOB NO.	83-072
DATE	Jan, 24/84	FILE NO.	83-072-D

ROAD CONSTRUCTION PLANS  
 WILD GINGER COURT  
 A RESUBDIVISION OF PARCEL C-4  
 COLUMBIA  
 VILLAGE OF HICKORY RIDGE  
 SECTION 3 AREA 2  
 5TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 FOR: The Howard Research & Development Corp.  
 The House Company, Inc.  
 Columbia, Maryland 21044



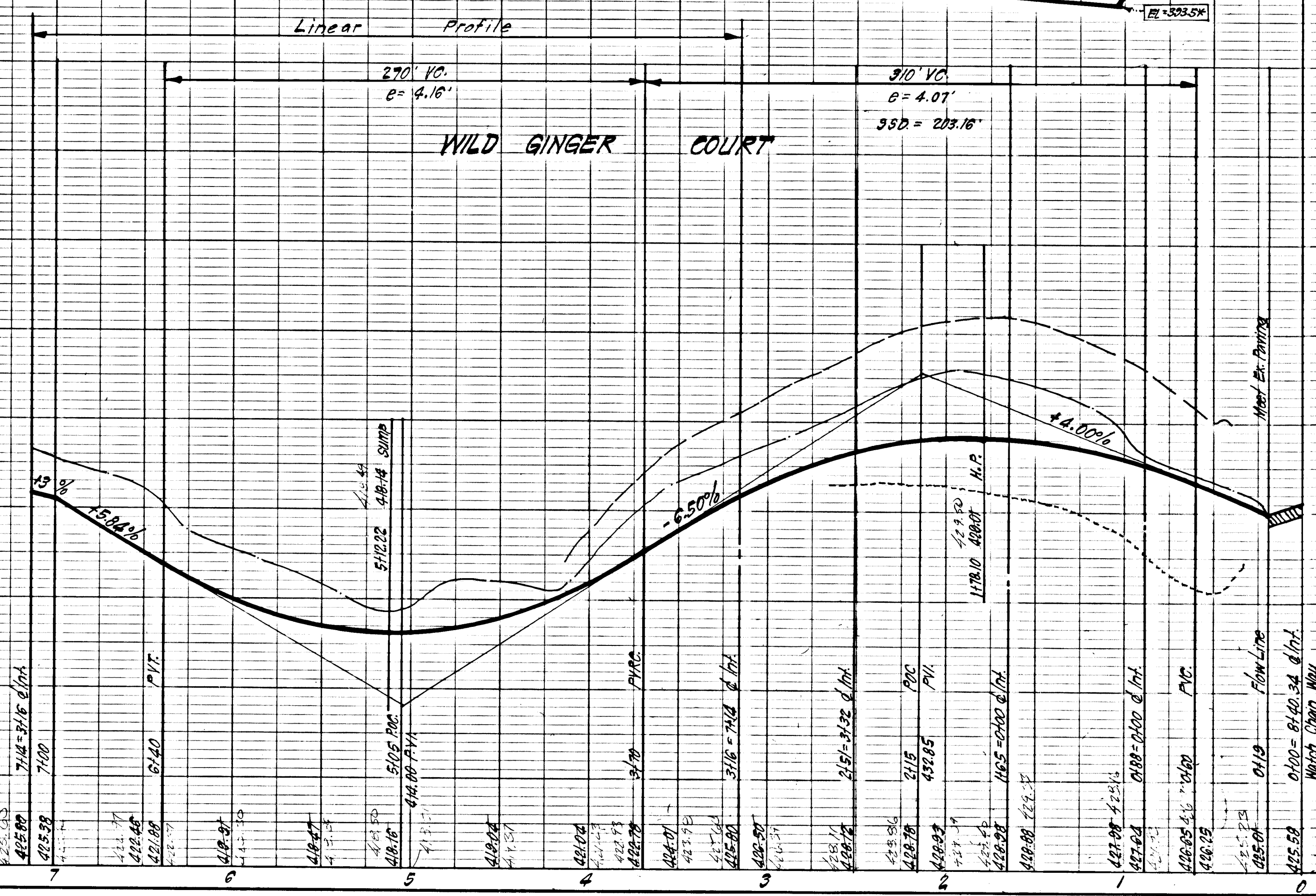
NOTE: WARP PAVING (NO CROWN)  
 STA. 4415 TO 6114

ASBUILT BEARS  
 BY LANTANA TRAK  
 25' x 25' x 25'  
 NORMAL BASE  
 10' x 10' x 10'  
 20' x 20' x 20'  
 30' x 30' x 30'  
 40' x 40' x 40'



25 L.F. Grouted Rip Rap 10-25 lb stone  
 (D50=3") 12" thick placed from curb  
 opening to toe of slope as shown in  
 plan. See detail, this sheet.

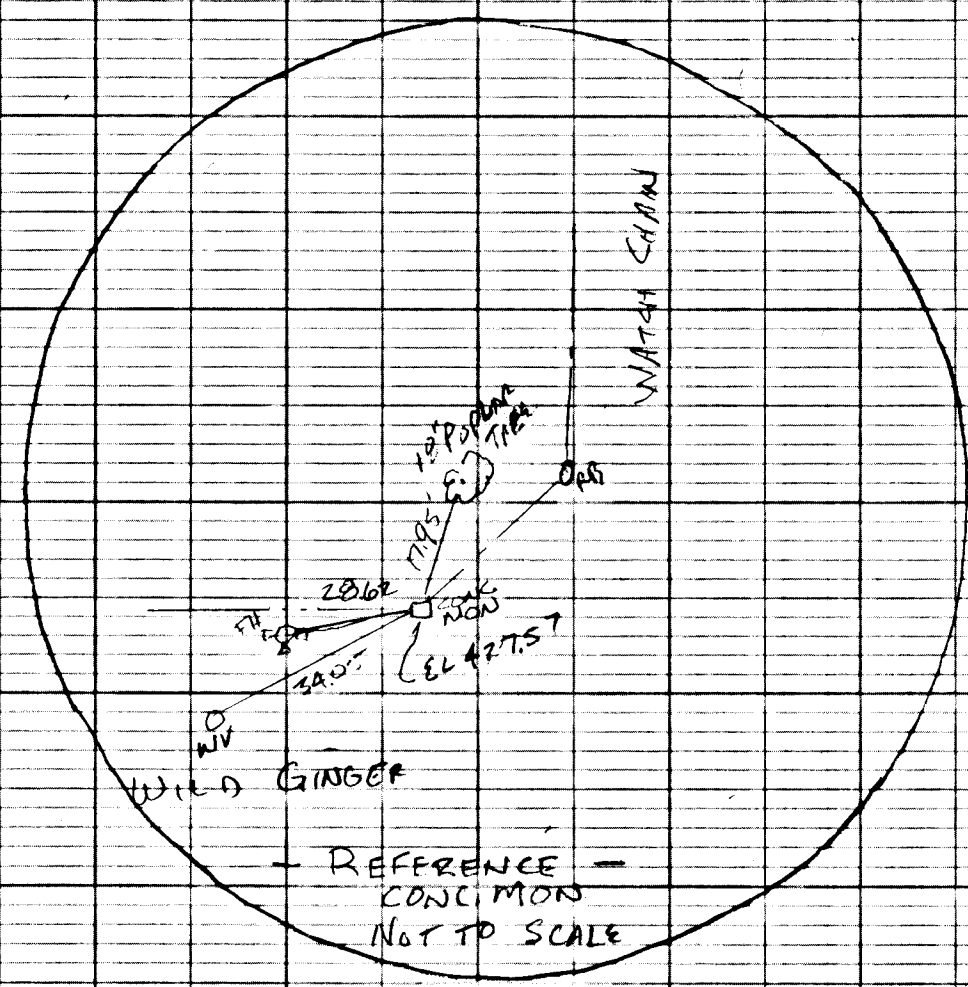
12 L.F. Ungrouted Rip Rap 10-25 lb stone (D50=3")  
 12" thick, placed as shown in plan. Rip Rap to be  
 placed on polyfilter X or approved equal. See Detail this sheet.



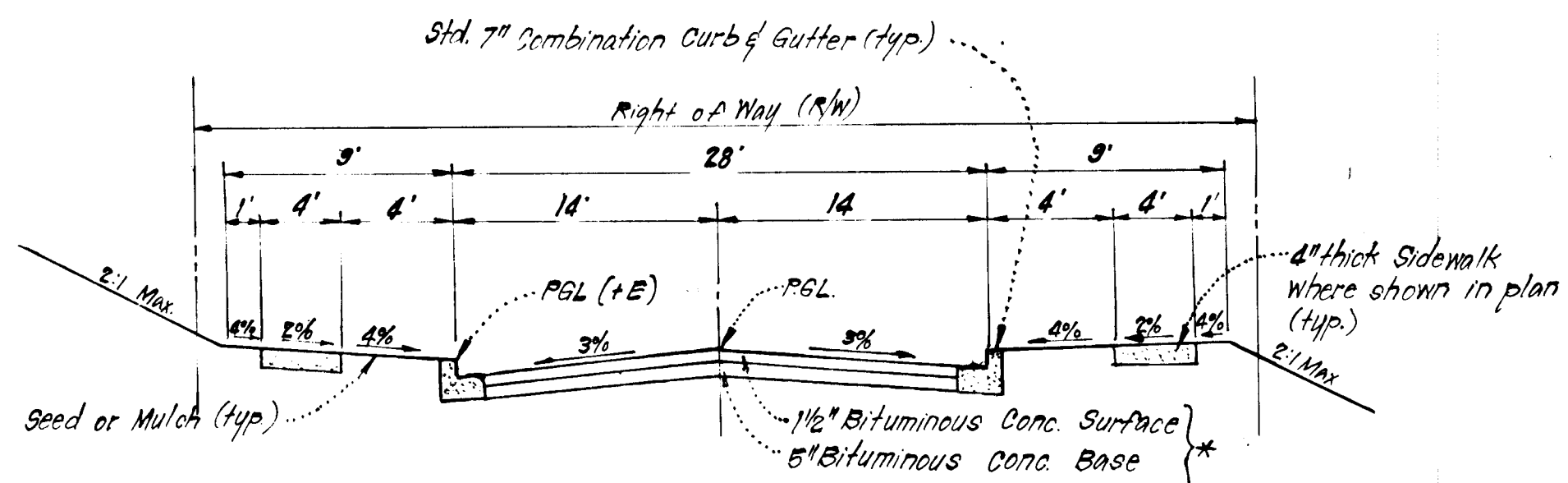
NO.	REVISION	DATE
1	Added Sidewalk & Sidewalk Ramp.	1-25-85

PROFILE SCALE  
 HOR: 1"=50'  
 VERT: 1"=5'

PROFILE LEGEND:  
 Profile Grade Line  
 Existing  
 B.R.L.  
 B.R.L. 4'



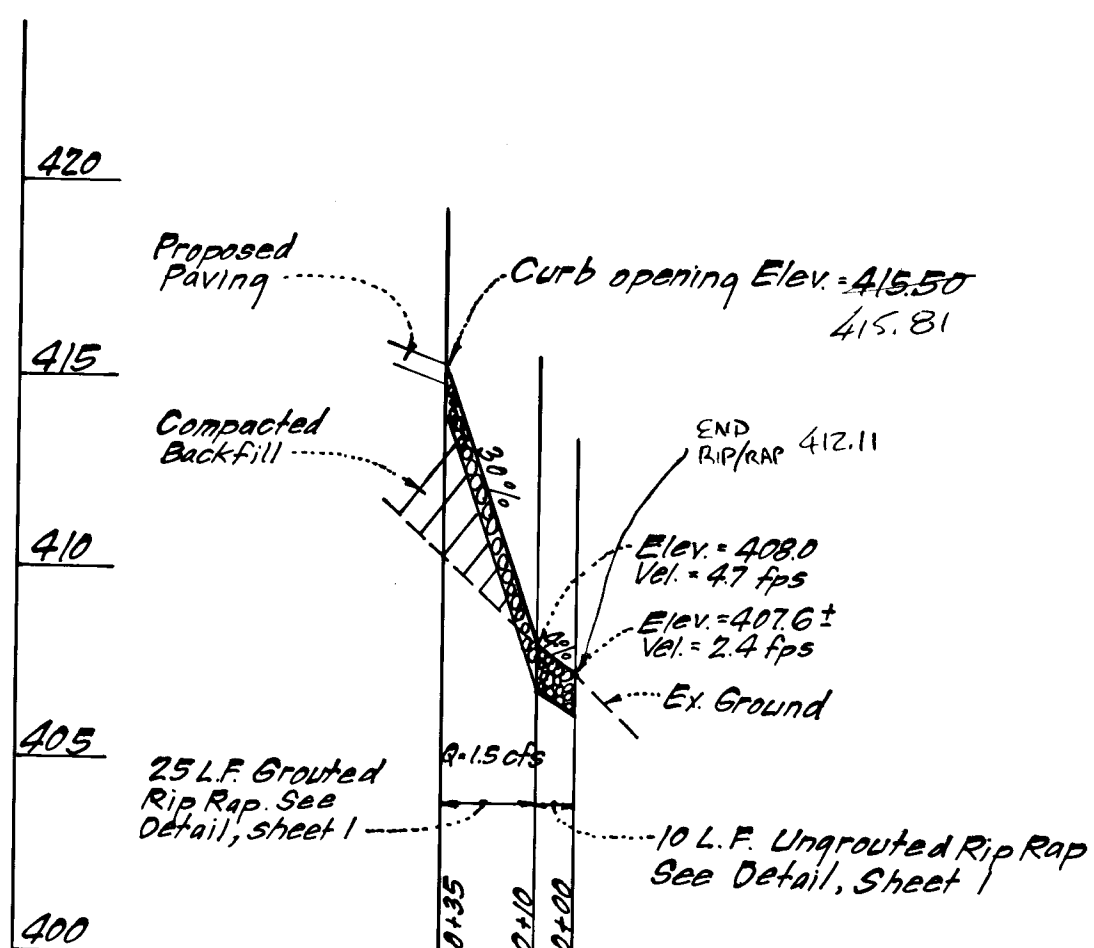
#42



TYPE OF TRAFFIC: CUL-DE-SAC  
 DESIGN SPEED: 30mph  
 ZONING: N.T. Single Family Attached.

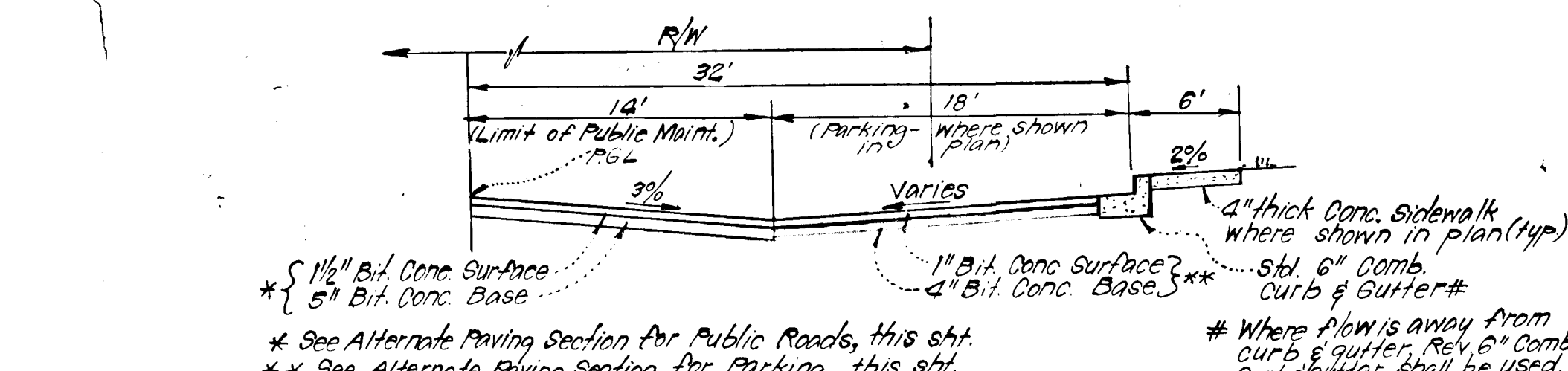
**TYPICAL PAVING SECTION - PUBLIC ROADS**

WILD GINGER COURT STA 0+00 TO 1+20  
 NO SCALE



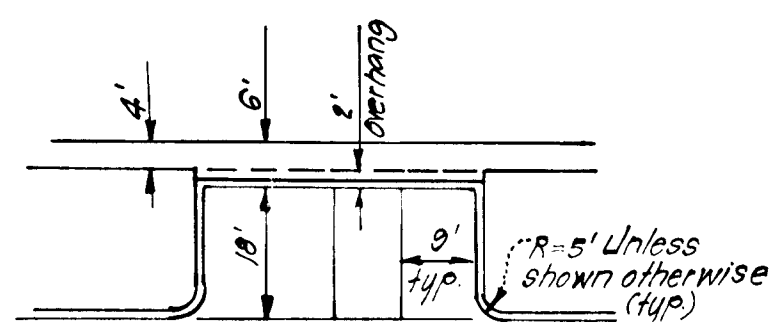
**PROFILE**

SCALE: HOR: 1"=50'  
 VERT: 1"=5'



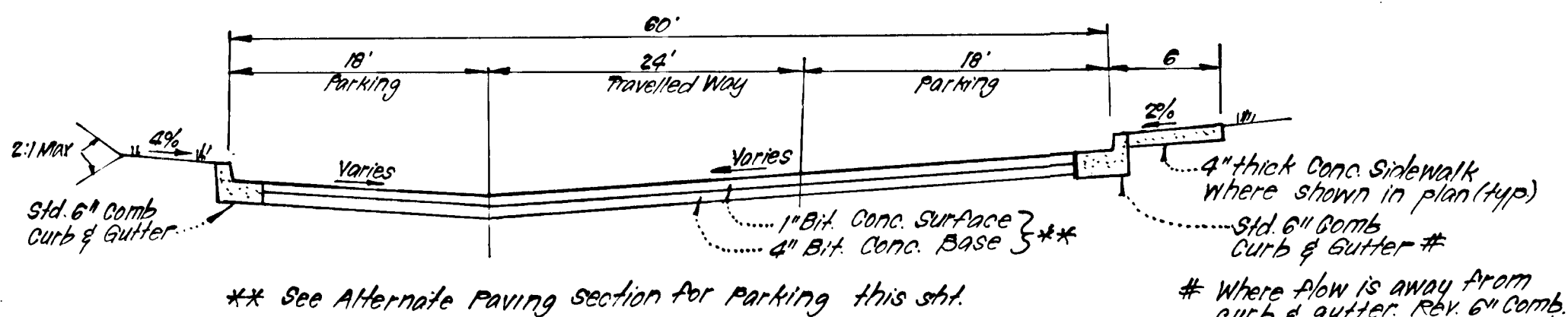
**TYPICAL HALF SECTION - PARKING ADJACENT TO PUBLIC ROADS**

WILD GINGER CT. STA 1+20 TO 7+10.00  
 NO SCALE



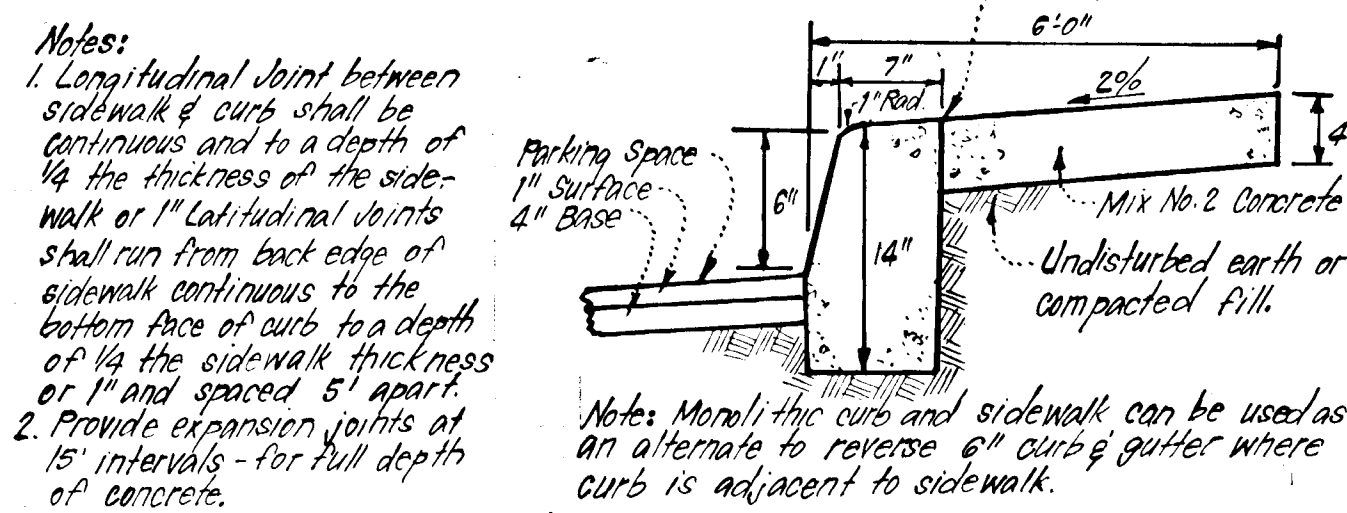
**TYPICAL PARKING**

NO SCALE



**TYPICAL SECTION - PRIVATE DRIVE & PARKING**

NO SCALE



**MONOLITHIC CURB & SIDEWALK - PRIVATE PARKING AREA**

NO SCALE

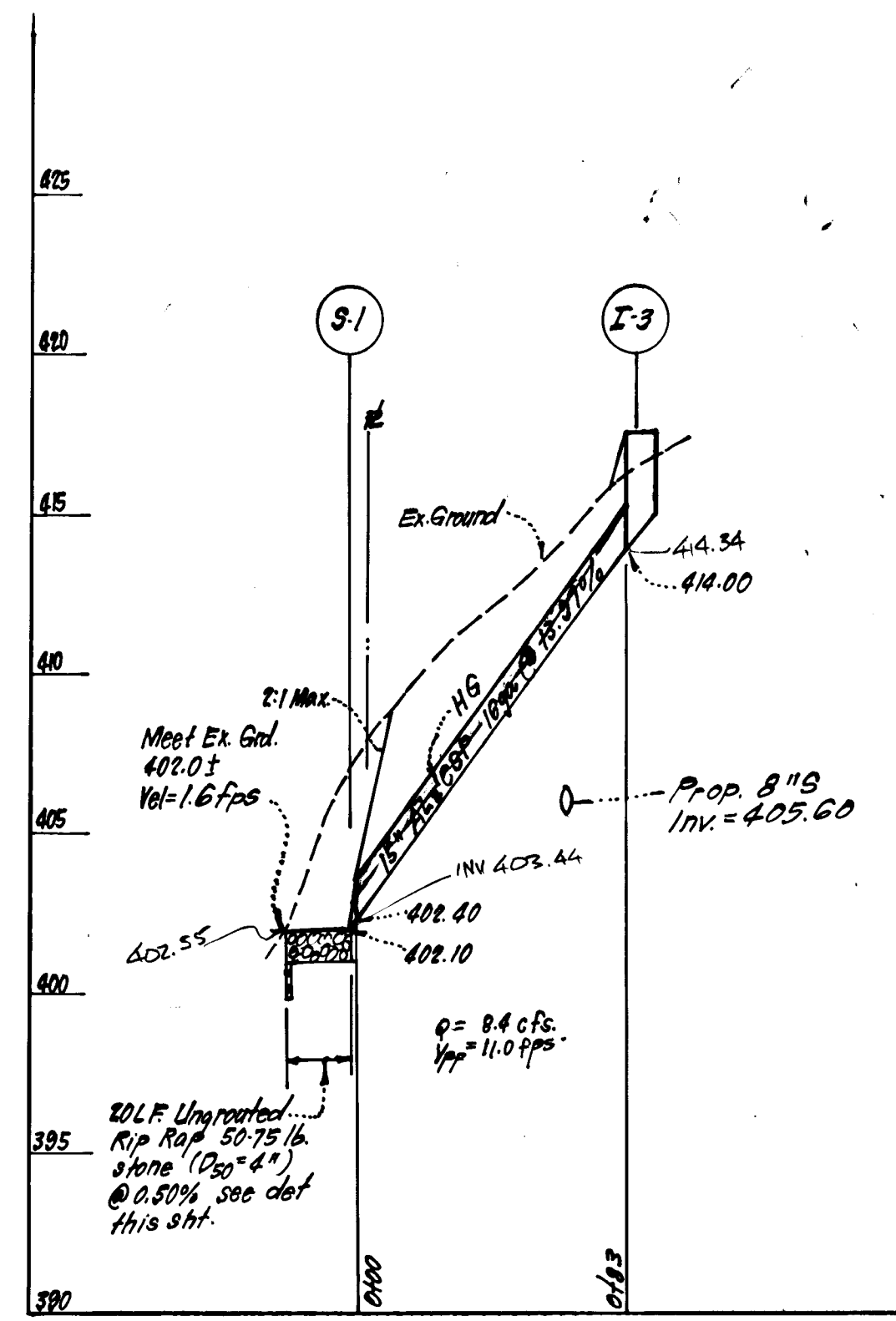
Notes:  
 1. Longitudinal joint between sidewalk & curb shall be continuous and to a depth of 1/4 the thickness of the sidewalk or 1\"/>

STRUCTURE SCHEDULE A							
No	TYPE	INV IN	INV OUT	TOP ELEVATION		REMARKS	LOCATION
				UPPER	LOWER		
5-1	Metal End Section	402.40	402.10	-	-	No. Co. Sht. SD 5-61 Dia=15\"/>	
3-3	A-10 Inlet	-	418.00	417.46	-	No. Co. Sht. SD 4-02 W=2'6\"/>	

\* See No. Co. Sht. SD 5-62 For Type of Connection.  
 Δ All Inverts to be fully developed

PIPE SCHEDULE		
SIZE	TYPE	LENGTH
15"	ALGSP 16 ga.	23 LF

\* 2 1/2" x 1/2" Corrugations



**PROFILE**

SCALE: HOR: 1"=50'  
 VERT: 1"=5'

ASBUILT SEALED BY  
 WALTER PARK  
 PLS # 5539  
 7-25-86

NO	REVISION	DATE
1.	Added Sidewalk Ramp Detail.	1-25-85

Bituminous Conc. Surface	1 1/2"
Bituminous Conc. Base	2 1/2"
Prime	-
8" Crusher Run Base Course (Placed in 2 Courses)	8"
or	6"
4" Dense Graded Stabilized Aggregate Base Course	4"

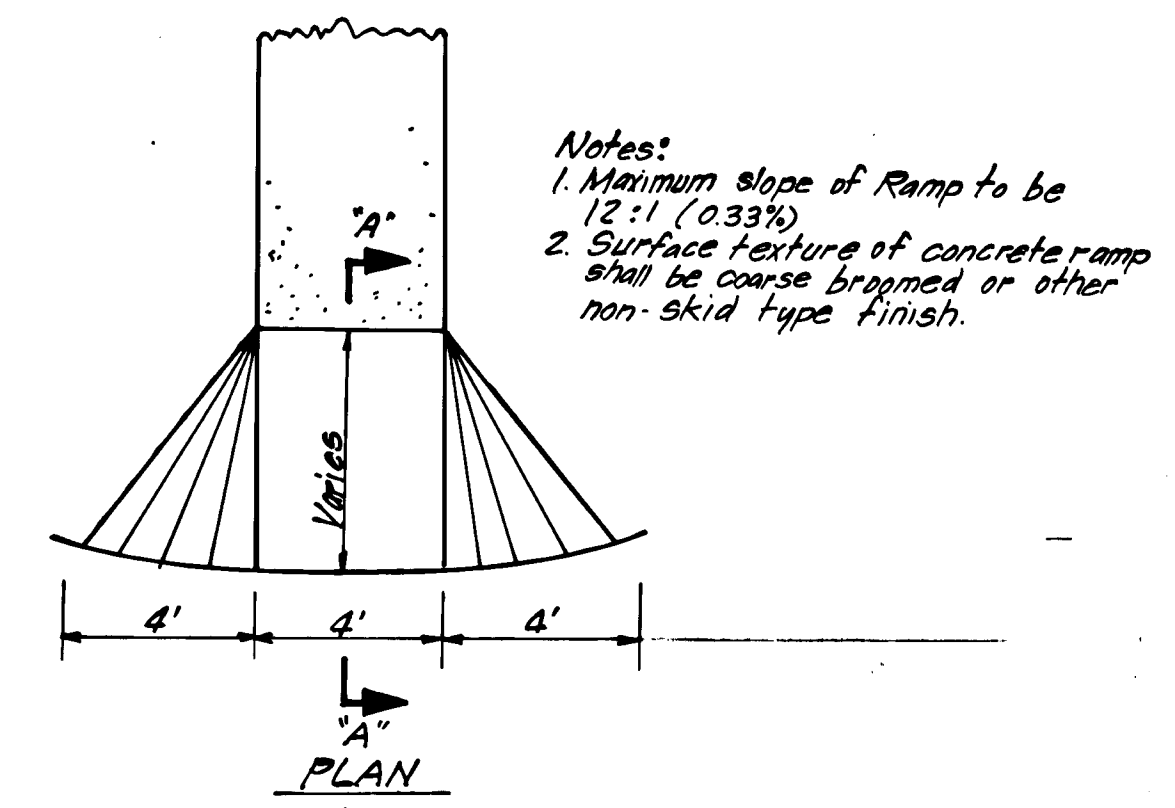
**ALTERNATE PAVING SECTION FOR PUBLIC ROADS**

NO SCALE

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

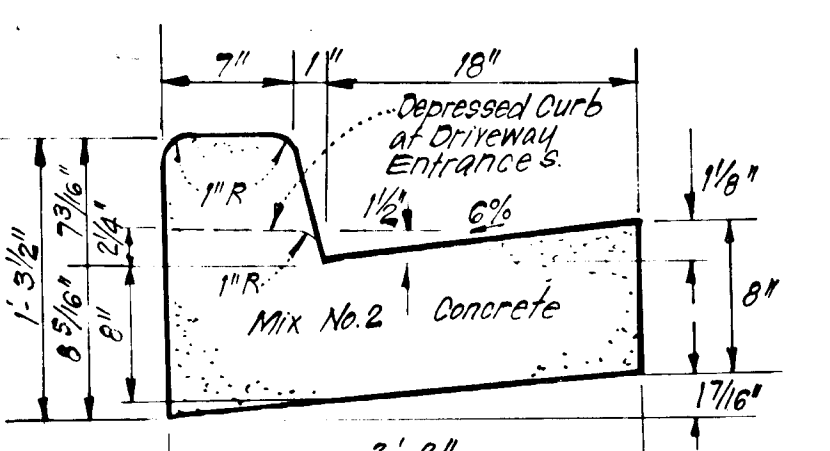
**ALTERNATE PAVING SECTION FOR PARKING AREAS**

NO SCALE



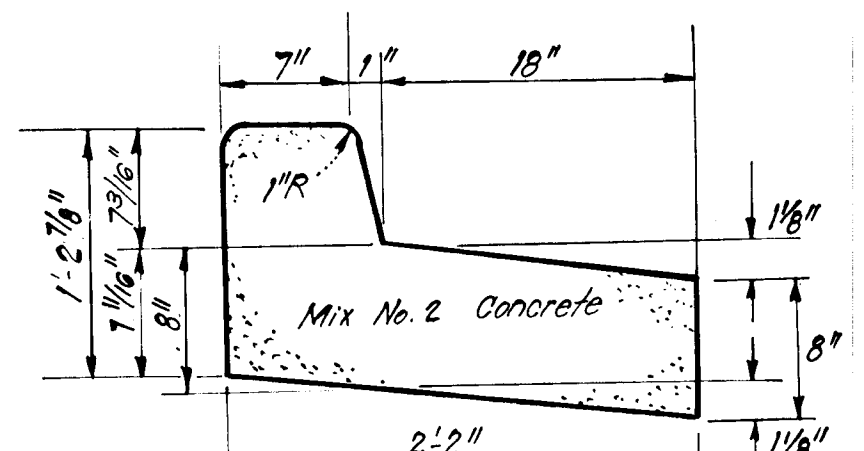
**ALTERNATE PAVING SECTION FOR ENTRANCES TO PUBLIC ROADS**

NO SCALE



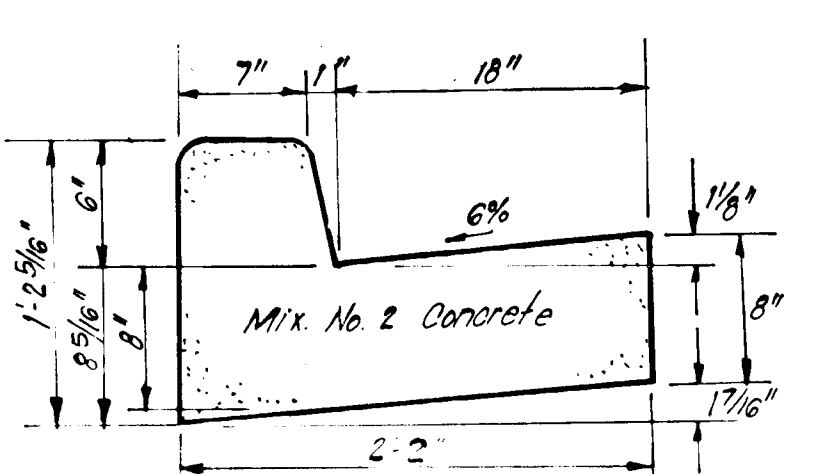
**STANDARD 7" COMBINATION CURB & GUTTER**

NO SCALE



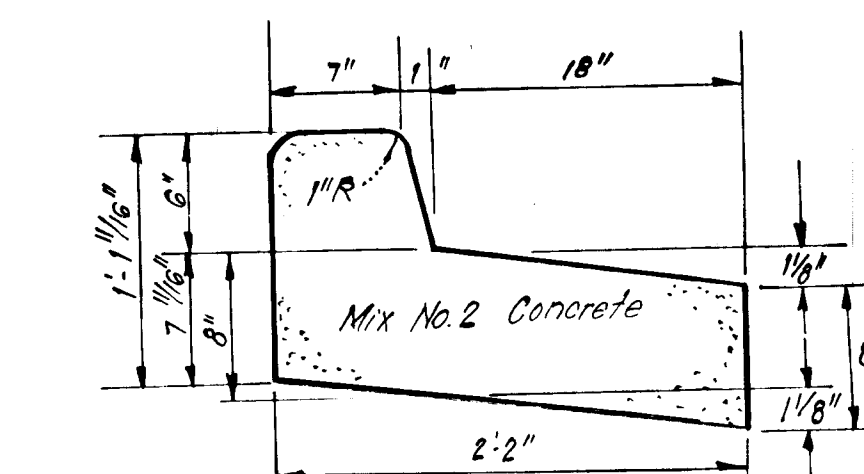
**REVERSE 7" COMBINATION CURB & GUTTER**

NO SCALE



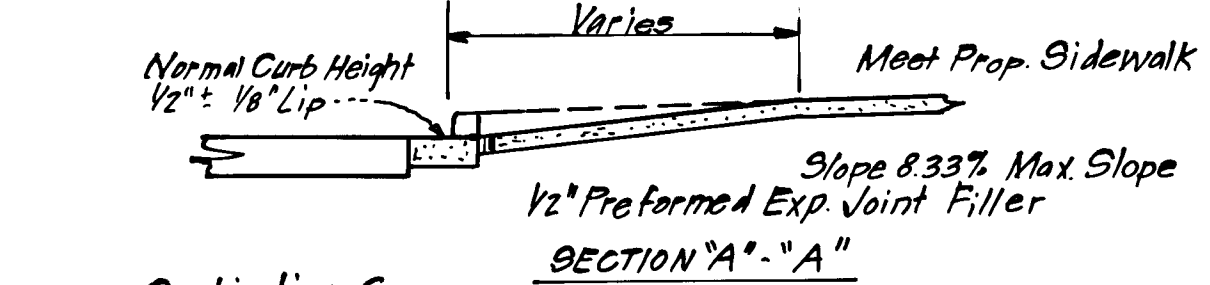
**STANDARD 6" COMBINATION CURB & GUTTER**

NO SCALE



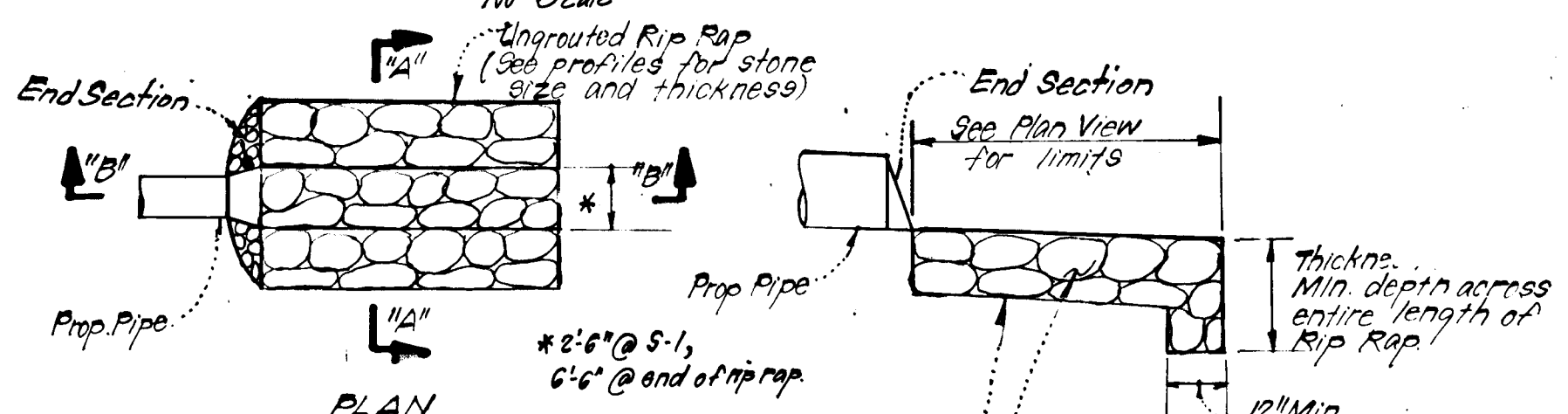
**REVERSE 6" COMBINATION CURB & GUTTER**

NO SCALE



**SIDEWALK RAMP DETAIL**

NO SCALE



**UNGROUTED RIP RAP PAVING DETAILS @ St. S-1**

NO SCALE

DEVELOPMENT BUILDERS 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: John H. Nelson  
 Date: 1-30-84

**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: Nelson Clark  
 Date: 11-7-83

APPROVED: Department of Public Works  
 Signature: [Signature]  
 Date: 2-3-84  
 APPROVED: Howard County Office of Planning and Zoning  
 Signature: [Signature]  
 Date: 2-3-84

CLARK • FINEFROCK & SACKETT		
ENGINEERS • PLANNERS • SURVEYORS		
11311 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400		
DESIGNED	ROAD CONSTRUCTION PLANS PAVING & DRAINAGE DETAILS A RESUBDIVISION OF PARCEL C-4 COLUMBIA	SCALE AS SHOWN
DRAWN		DRAWING
KIM	VILLAGE OF HICKORY RIDGE SECTION 3 ELECTION DISTRICT HOWARD COUNTY, MARYLAND	20F3
CHECKED		JOB NO.
JLS		83-072
DATE	FOR: The Howard Research Development Corp. The Rouse Company, Building Columbia, Maryland 21044	FILE NO.
Jan. 24, 84		83-072-D

F-84-80 H.S.D. OCT 26, 1985

**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 ryegrass applied at a rate of 14 lbs/1000 sf.
- 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 3lbs/1000 sf. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual ryegrass
  - Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sf. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 20 lbs/1000 sf.
  - Mulch - Weed free grain straw applied at a rate of 70-90 lbs/1000 sf. 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 permits 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.
- It will be the developer's 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.
- Total Amount of Straw Bales or Silt Fence shown = 275 L.F.

**14. SITE ANALYSIS:**

A. Total Area:	5.371	Acres
B. Area to be Roofed:	None	Acres
C. Area to be Paved:	1.360	Acres
D. Area to be Seeded:	1.411	Acres
E. Area Undisturbed:	2.600	Acres

- 15. CONSTRUCTION SEQUENCE:**
- Install Sediment and Erosion Control Measures, except SBD/SF along Wild Ginger Ct.
  - Construct Storm Drainage.
  - Construct Utilities.
  - Final grade & construct paving, sidewalks, etc. except in area of Trap No. 1 and install SBD/SF along Wild Ginger Ct. after curb & gutter in that area is constructed.
  - Stabilize all disturbed areas onsite in accordance with Sds & Specs.
  - Remove Sediment & Erosion Control Measures after all areas draining to them have been stabilized.
  - Construct remainder of paving, curb & gutter in area of Trap #1 and immediately stabilize area.

**LEGEND:**

1. Contour Interval	2 FT.
2. Existing Contour	---
3. Proposed Contour	---
4. Perimeter Dike	---
5. Straw Bale Dike / Silt Fence	--- SBD/SF ---
6. Interceptor Swale	---
7. Stone Filter Inlet Protection	--- SFIP ---
8. Existing Diversion Dike	---

**DEVELOPER'S CERTIFICATE**

"I, the undersigned, certify that the plan and construction will be done according to the map of the lot and plan for erosion and sediment control and that all reasonable personnel involved in the construction of the site 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."

*John H. Nelly*  
Signature of Developer/Builder  
1-30-84  
Date

Reviewed for: **HOWARD COUNTY** S.C.D.  
Date: **2-1-84**  
U.S. Soil Conservation Service  
Date: **1-31-84**  
Approved: *[Signature]*  
Date: **1-31-84**

**ENGINEER'S CERTIFICATE**

I hereby certify that this plan for Erosion and Sediment Control represents a practical, 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  
11-7-83  
Date

**APPROVED: Department of Public Works**

*[Signature]*  
Date: **2-3-84**

**APPROVED: Howard County Office of Planning & Zoning**

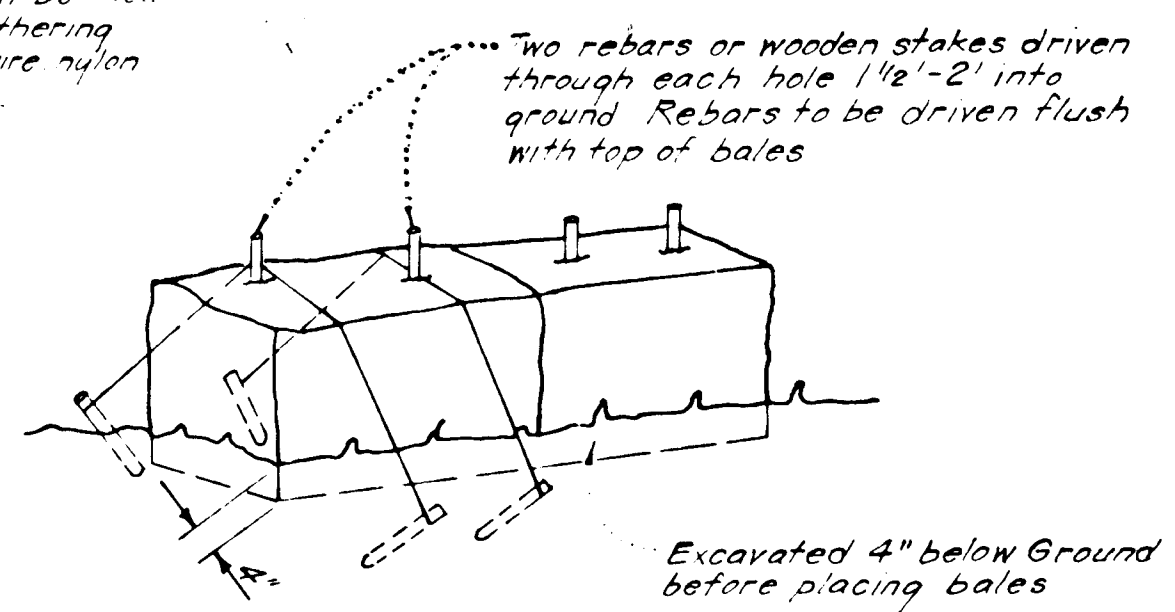
*[Signature]*  
Date: **2-3-84**

**CLARK FINEFROCK & SACKETT**  
ENGINEERS PLANNERS SURVEYORS  
11315 LOCKWOOD DRIVE SILVER SPRING, MARYLAND 20904 (301)593400

DESIGNED	JLS	SCALE	As Shown
DRAWN	JLS	DRAWING	30F3
CHECKED	JLS	JOB NO.	83-072
DATE	Jan 24, 84	FILE NO.	83-072-D

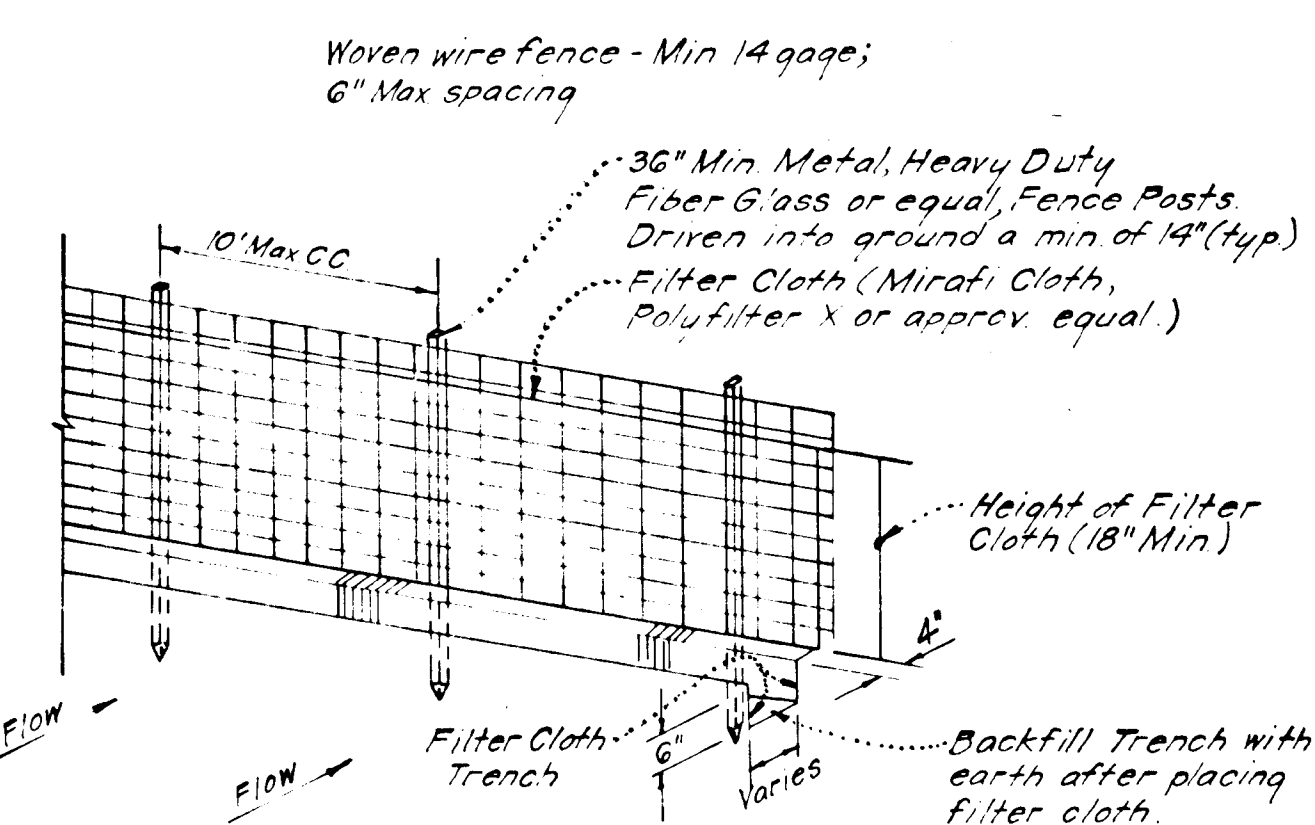
**ROAD CONSTRUCTION PLANS**  
**SEDIMENT & EROSION CONTROL PLAN & DRAINAGE AREA MAP**  
**C-4**  
**COLUMBIA**  
VILLAGE OF HICKORY RIDGE  
SECTION 3  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
FOR THE HOWARD RESEARCH & DEVELOPMENT CORP.  
The House Company, 5645  
Columbia, Maryland 21044

All bales shall be tied with non-weathering materials, i.e. wire nylon



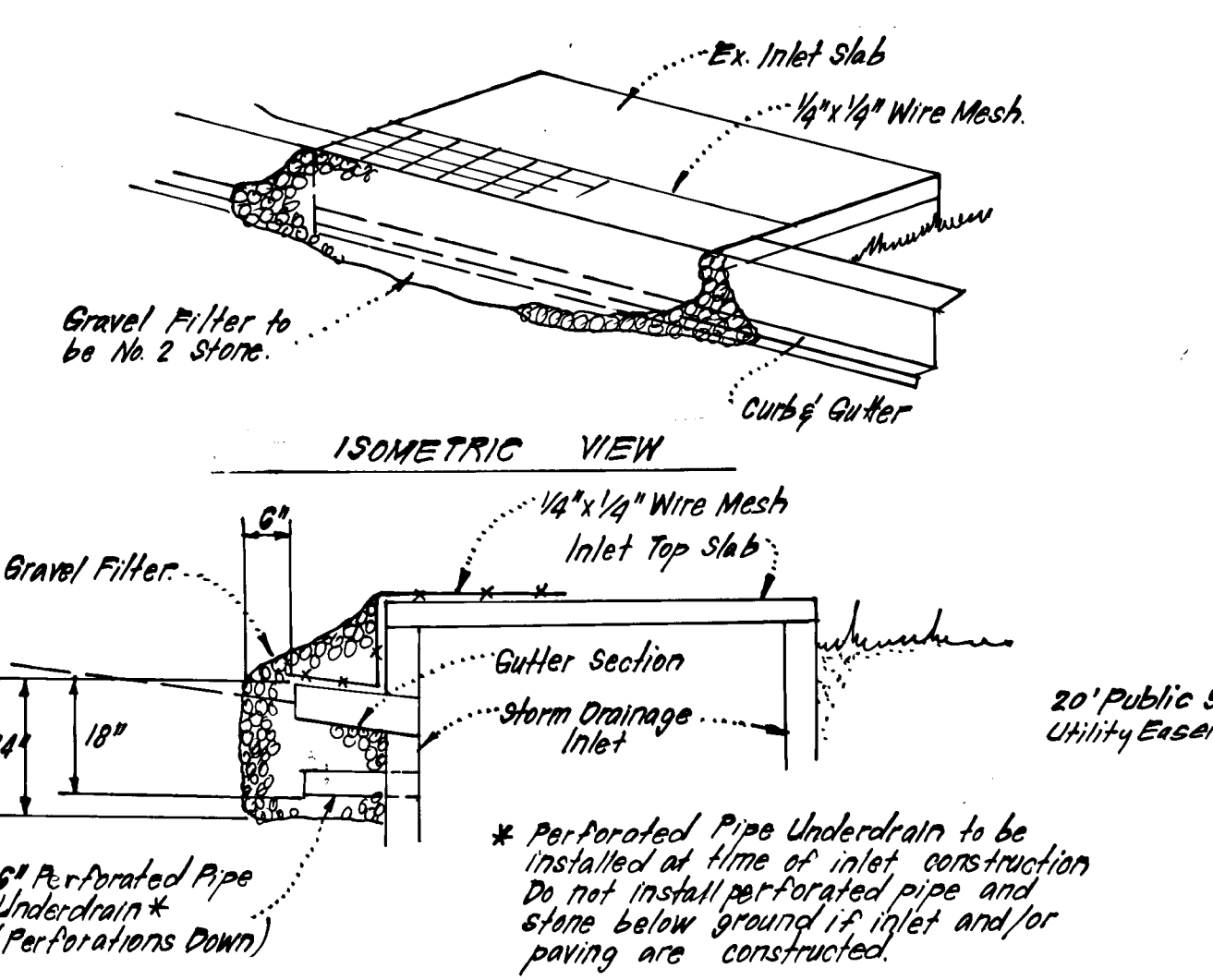
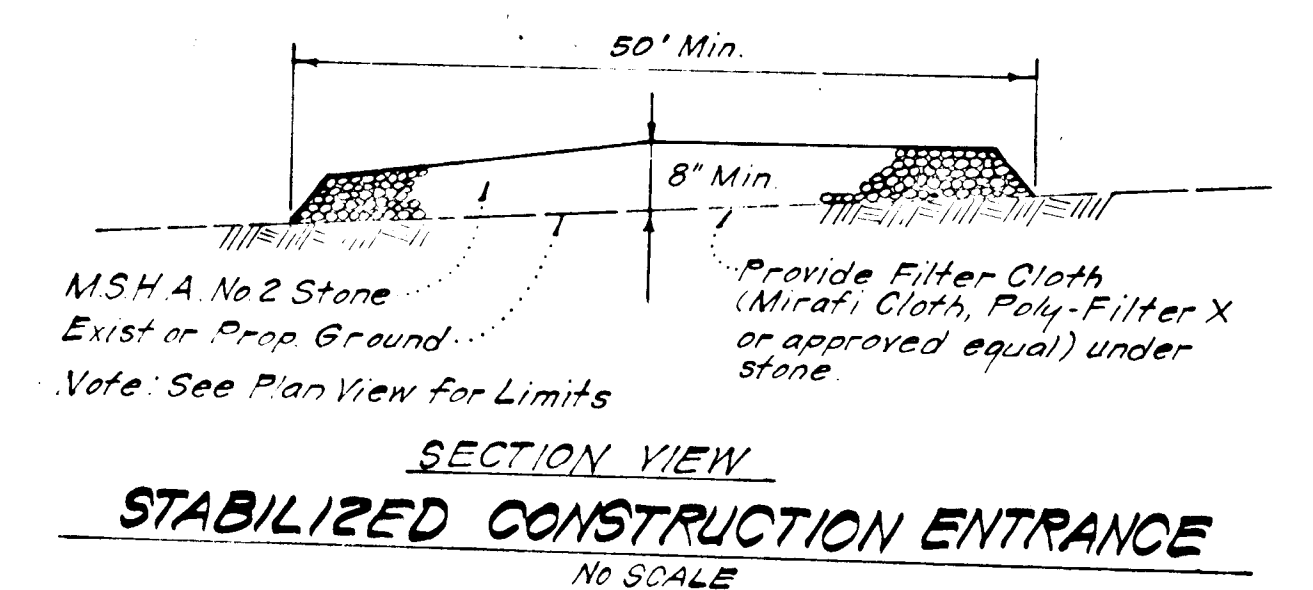
Note: In lieu of the use of rebar each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above.)

**STRAW BALE DIKE DETAIL (SBD)**  
NO SCALE

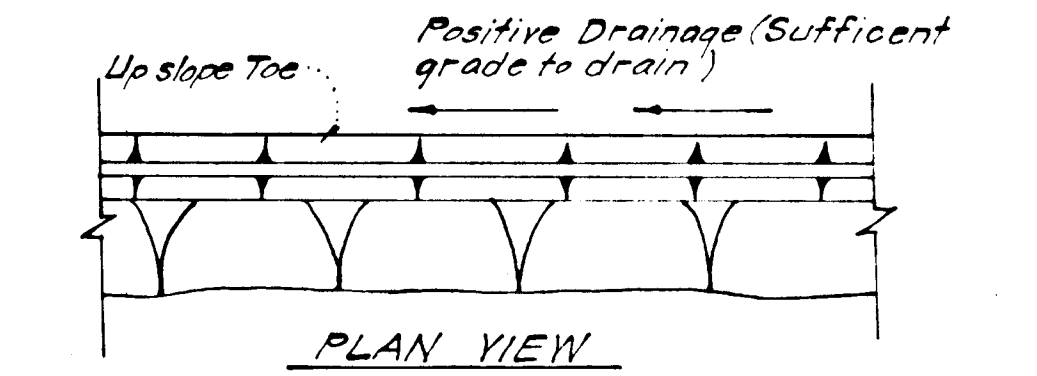
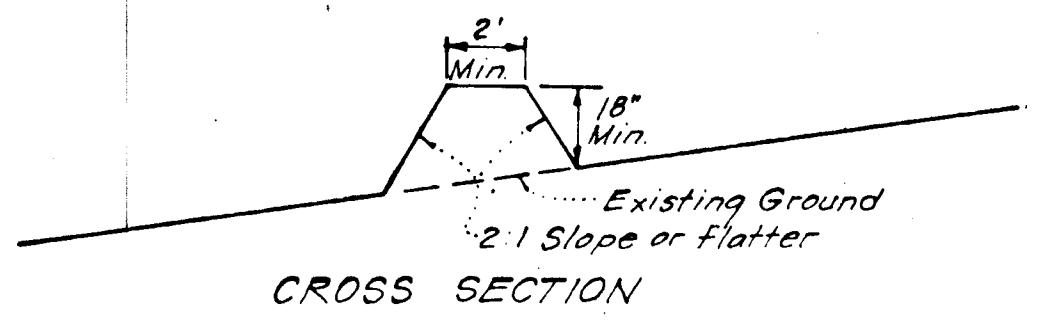


Notes:  
1. Woven Wire Fence to be fastened securely to fence posts by use of wire ties.  
2. Filter Cloth to be fastened securely to Woven Wire by use of wire ties spaced every 24"x24".

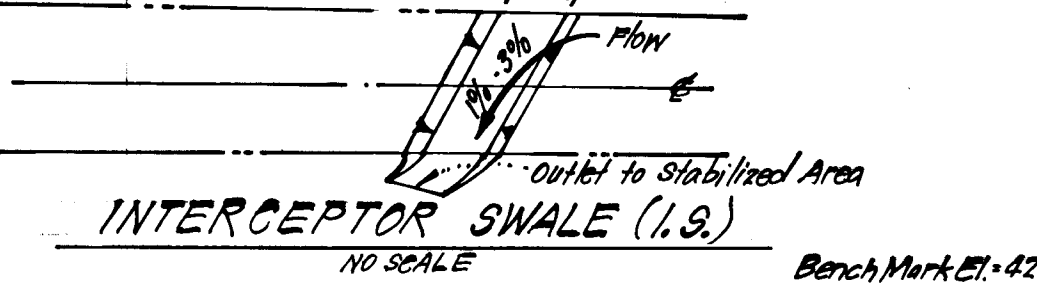
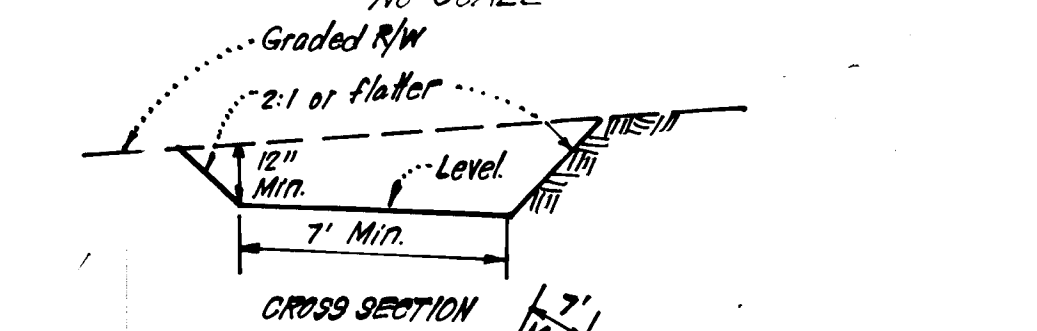
**SILT FENCE DETAIL (SF)**  
NO SCALE



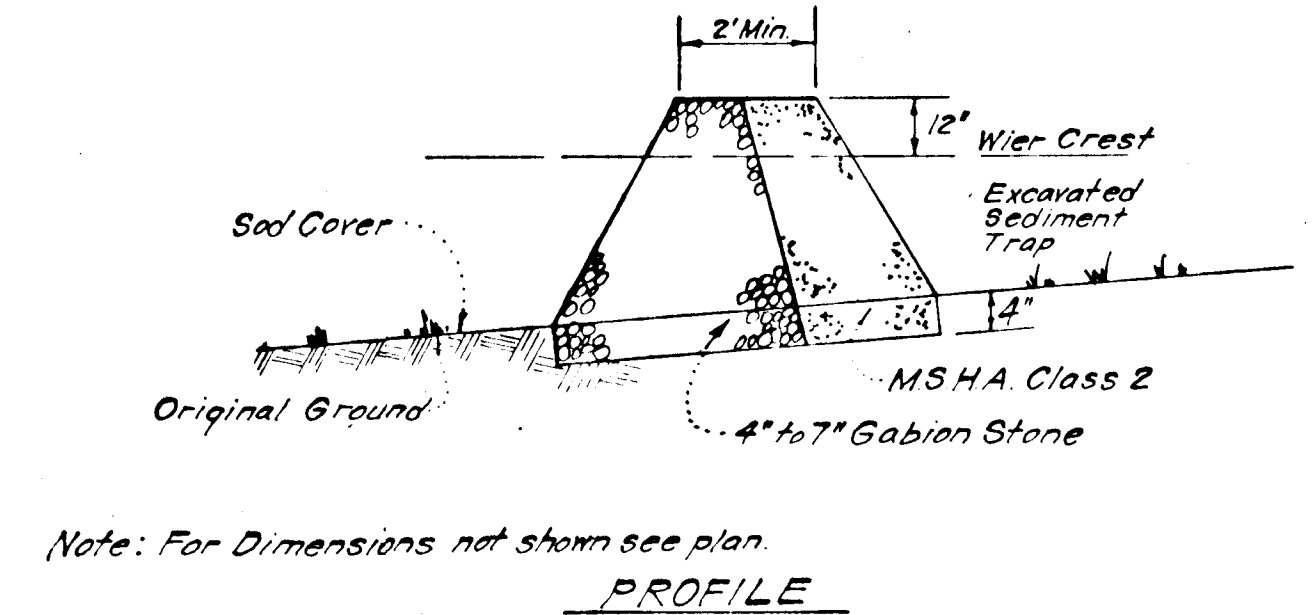
**STONE FILTER INLET PROTECTION (SFIP)**  
NO SCALE



**PERIMETER DIKE (PD)**  
NO SCALE

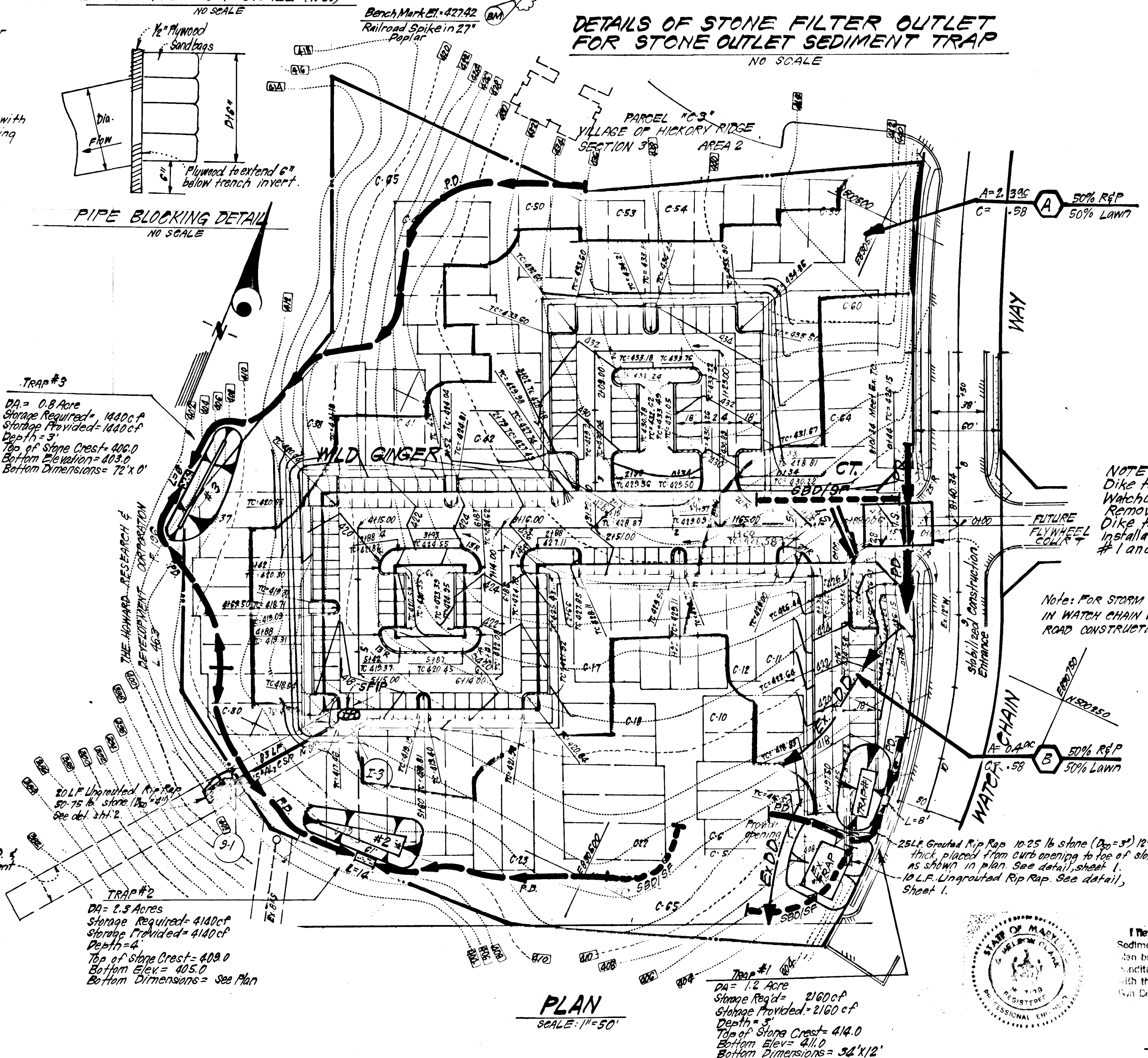


**PIPE BLOCKING DETAIL**  
NO SCALE



**DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP**  
NO SCALE

Notes:  
1. Sediment Trap to be cleaned out when sediment reaches a level of 1 ft below 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.

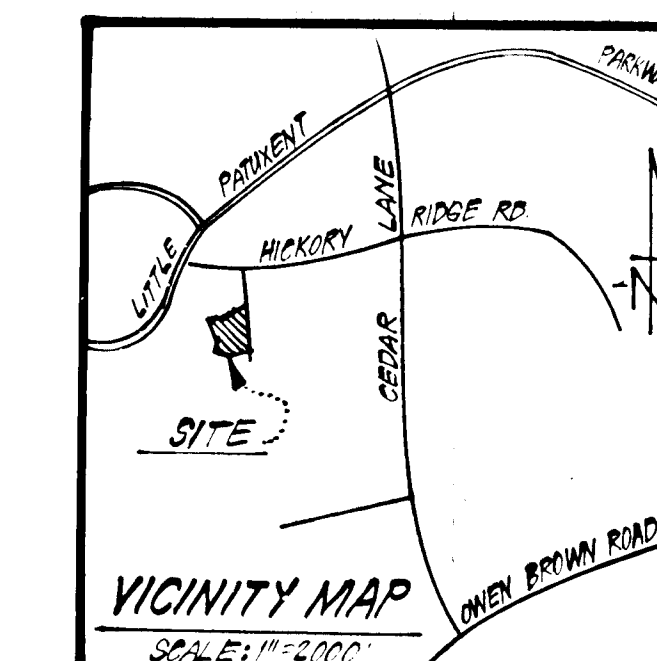


**TRAP #3**  
DA = 0.6 Acre  
Storage Required = 1400cf  
Storage Provided = 1400cf  
Depth = 5'  
Top of Stone Crest = 402.0  
Bottom Elevation = 403.0  
Bottom Dimensions = 72' x 0'

**TRAP #2**  
DA = 2.3 Acre  
Storage Required = 4100cf  
Storage Provided = 4100cf  
Depth = 4'  
Top of Stone Crest = 408.0  
Bottom Elev = 405.0  
Bottom Dimensions = See Plan

**TRAP #1**  
DA = 1.2 Acre  
Storage Required = 2100cf  
Storage Provided = 2100cf  
Depth = 5'  
Top of Stone Crest = 414.0  
Bottom Elev = 411.0  
Bottom Dimensions = 32' x 12'

**PLAN**  
SCALE: 1" = 50'



**VICINITY MAP**  
SCALE: 1" = 200'