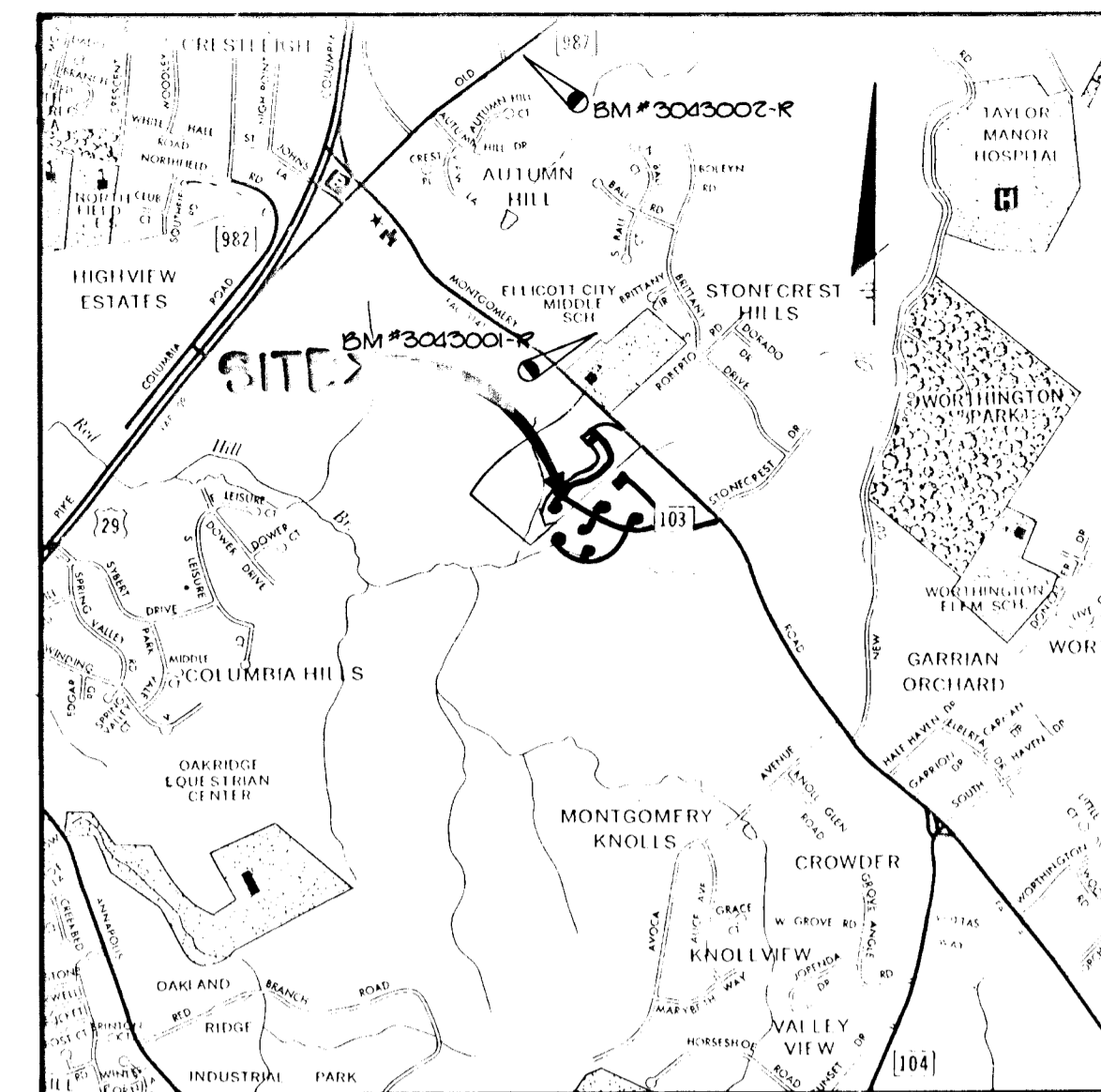


SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN OF WHEATFIELD WAY AND LITTLEFIELD COURT
3	PLAN OF ROLLING MEADOWS AND RUSTY GATE
4	PROFILES
5	PROFILES
6	DETAILS AND DRAINAGE AREA MAP
7	GRADING AND SEDIMENT CONTROL PLAN
8	GRADING AND SEDIMENT CONTROL PLAN
9	SEDIMENT CONTROL NOTES AND DETAILS
10	STREET TREE PLAN
11	STREET TREE PLAN

# ROADWAY & STORM DRAINS LONG GATE SECTION 2, AREA 1 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND



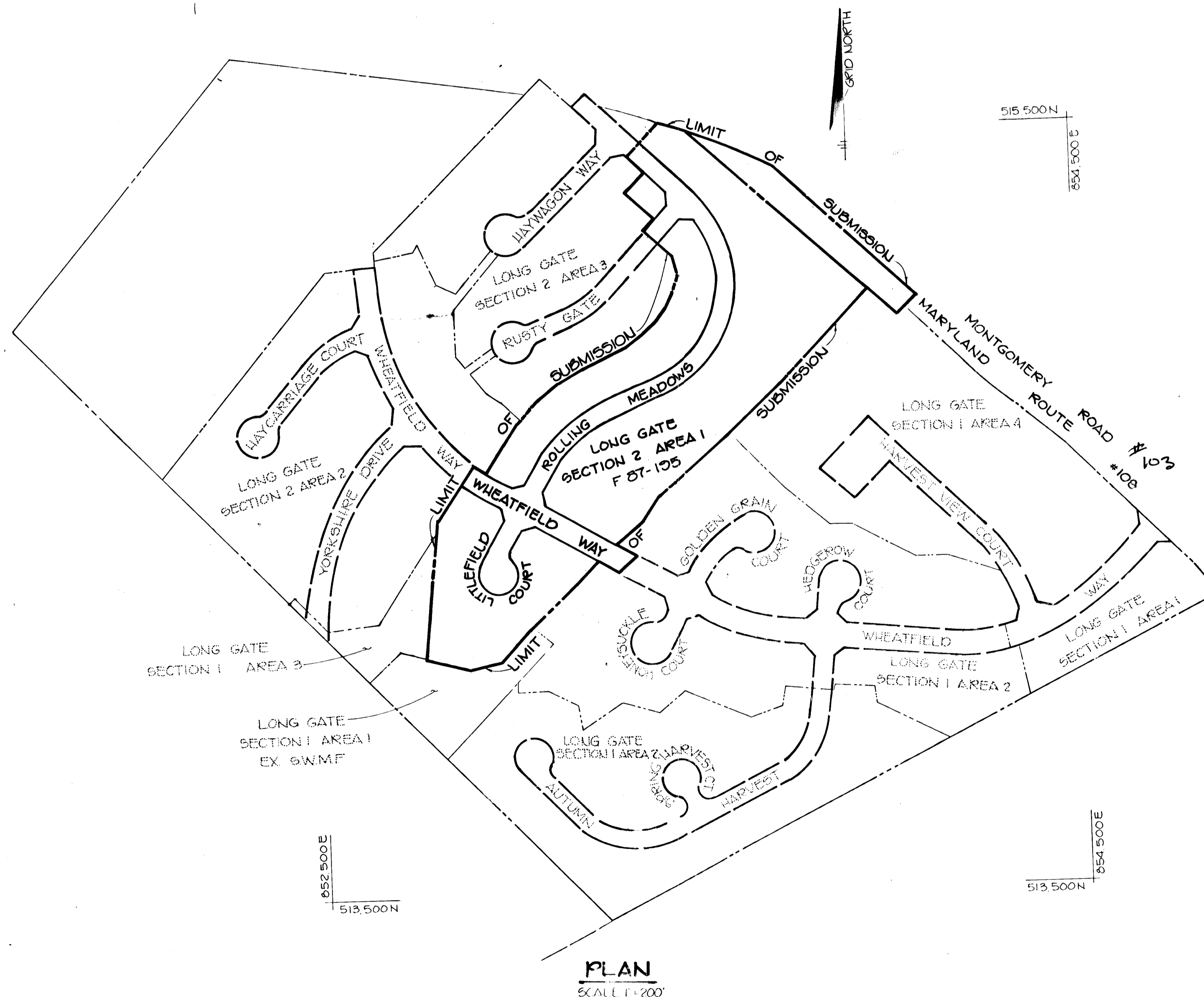
VICINITY MAP  
SCALE 1" = 2000'

**GENERAL NOTES**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR ROAD CONSTRUCTION.
2. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
4. CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS AND ELECTRIC	539-8000 EXT. 691
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION	992-2417/2418

5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
6. ALL STREET CURB RETURNS SHALL HAVE 20.0' RADII UNLESS OTHERWISE NOTED.
7. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
8. INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1978 EDITION.
9. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
10. DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS:  
ALL CUL-DE-SAC DESIGNED FOR 30 M.P.H., ALL LOCAL STREETS DESIGNED FOR 30 M.P.H.  
ALL MINOR COLLECTORS DESIGNED FOR 35 M.P.H.
11. ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
12. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% OF MAXIMUM OBTAINABLE DENSITY DETERMINED BY MARSHALL PROCTOR.
13. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
14. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
15. SUBJECT PROPERTY ZONED R-SC PER 8-2-85 COMPREHENSIVE ZONING PLAN.
16. TOPO TAKEN FROM AERIAL PHOTOGRAMMETRY BY MAPPING ASSOCIATES, FLOWN MAY, 1986.



PLAN  
SCALE 1" = 200'

**BENCH MARK DESCRIPTIONS**

BM # 3043001-R	ELEV 437919
CONCRETE MONUMENT AT 4 IN TRANSMISSION LINES BACK OF SCHOOL	
BM # 3043002-R	CONCRETE MONUMENT 05' BELOW SURFACE 14' NW & OLD COLUMBIA PIKE 175' N.E. & OF COOKS LANE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i>	8-20-87
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>[Signature]</i>	8-18-87
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE
NO. DATE REVISION	
<p><b>TRACY, SCHULTE &amp; ASSOCIATES INC.</b> planning • architecture • engineering</p> <p>8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465 6105</p>	
OWNER:	PROJECT: LONG GATE SECTION 2 AREA 1 LOTS 192 THRU 242
SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	LOCATION: 2ND ELECTION DISTRICT HOWARD COUNTY, MD TAX MAP NO 30 ZONING MAP NO 30 PARCEL 18
DEVELOPER:	TITLE: TITLE SHEET
SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	ZB-813M 887-11 P-87-41
DES: JKT/JRS DRN: CDT	DATE: MARCH 2, 1987 PROJECT NO: 8659 R50
	SCALE: 1" = 200' DRAWING: 1 OF 11

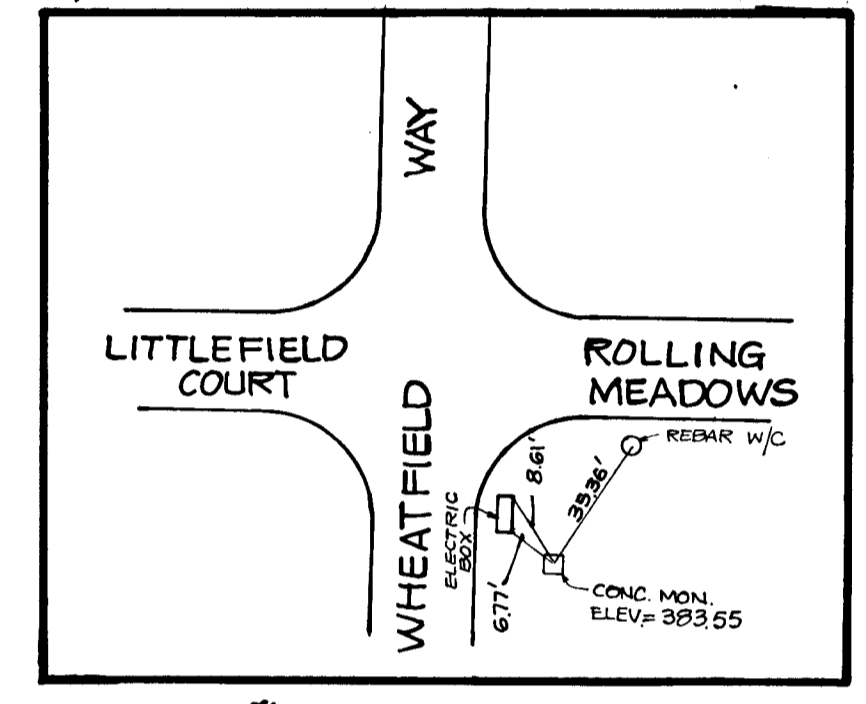
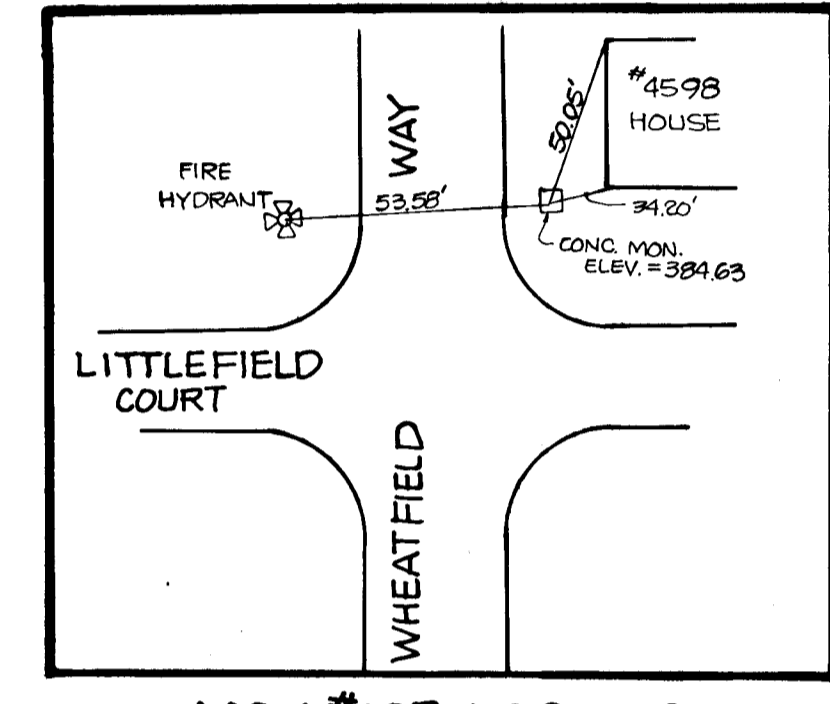
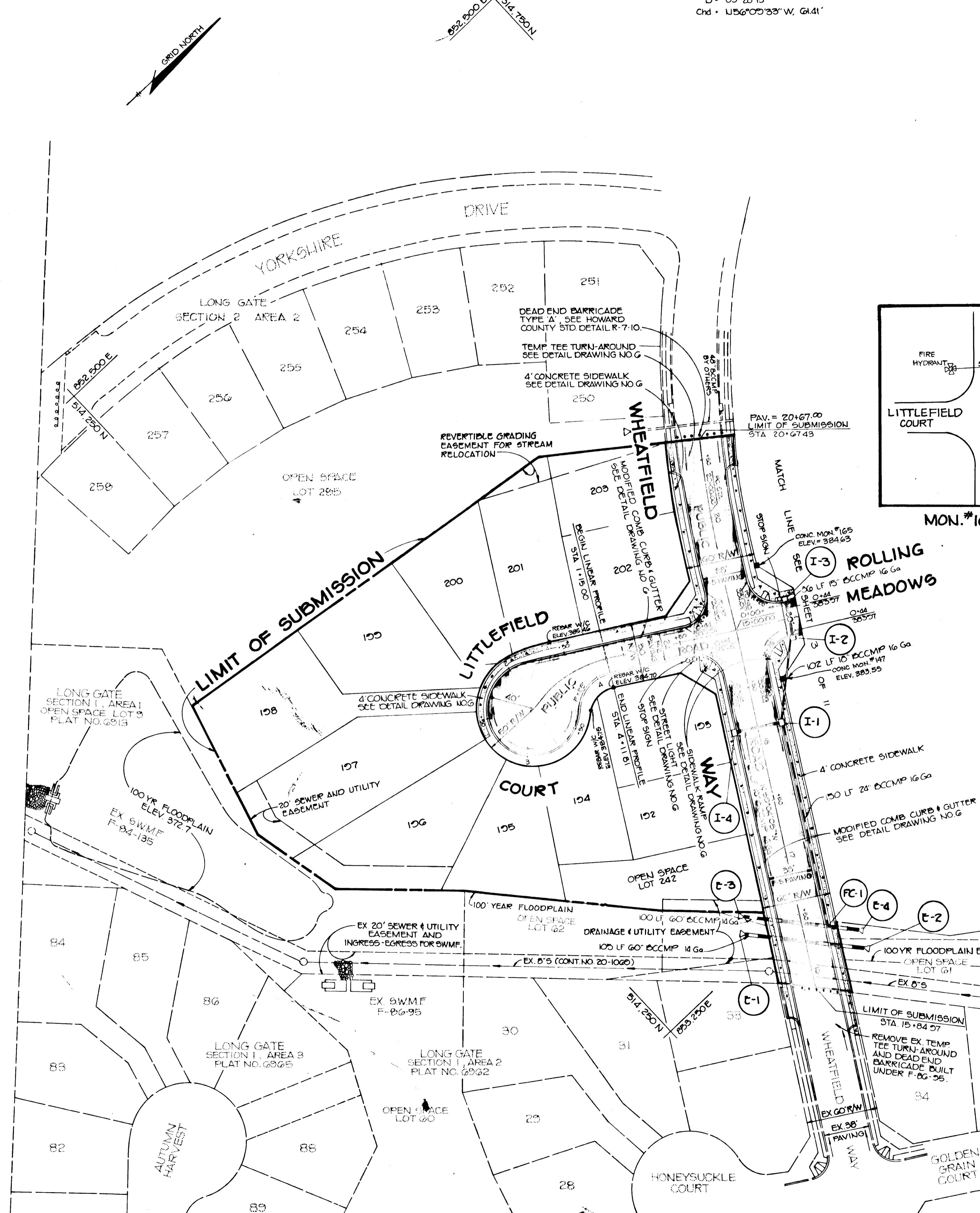
F-87-195

1162

**CURVE DATA**  
 WHEATFIELD WAY @ STA 20+06.00  
 TO @ STA 20+67.43  
 Δ = 05°43'05"  
 R = 606.00'  
 L = 61.43  
 T = 30.74  
 D = 05°28'13"  
 Chd = U56°00'33" W, 61.41'

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV IN	INV OUT	TOP ELEV	REMARKS
I-1	A-5	21.67' RT OF @ STA 18+13.02	378.85	377.80	383.12	HC STD
I-2	A-5	17.67' RT OF @ STA 0+46.5	379.77	379.56	383.39	HC STD
I-3	A-5	17.67' LT OF @ STA 0+46.5	--	380.20	383.99	HC STD
I-4	A-5	21.67' LT OF @ STA 18+13.02	--	379.43	383.12	HC STD
I-5	A-5	17.67' RT OF @ STA 6+03.62	397.89	397.69	401.86	HC STD
I-6	A-5	17.67' LT OF @ STA 6+03.62	--	398.25	401.86	HC STD
E-1	60" METAL END SECTION	51.02' LT OF @ STA 16+44.79	373.02	372.87	--	HC STD
E-2	60" METAL END SECTION	48.19' RT OF @ STA 16+10.41	374.85	374.70	--	HC STD
E-3	60" METAL END SECTION	47.24' LT OF @ STA 16+58.30	373.75	373.66	--	HC STD
E-4	60" METAL END SECTION	47.24' RT OF @ STA 16+25.55	374.85	374.75	--	HC STD
E-5	15" METAL END SECTION	135' RT OF @ STA 6+03.62	390.87	389.90	--	HC STD

NOTE: ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' UNLESS OTHERWISE NOTED.



AS-BUILT SURVEY CERTIFIED BY  
 RICARDO HERNANDEZ, P.L.S.  
 No. 438 ON 8-8-89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 8-20-87  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*[Signature]* 8-18-87  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
 planning • architecture • engineering  
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

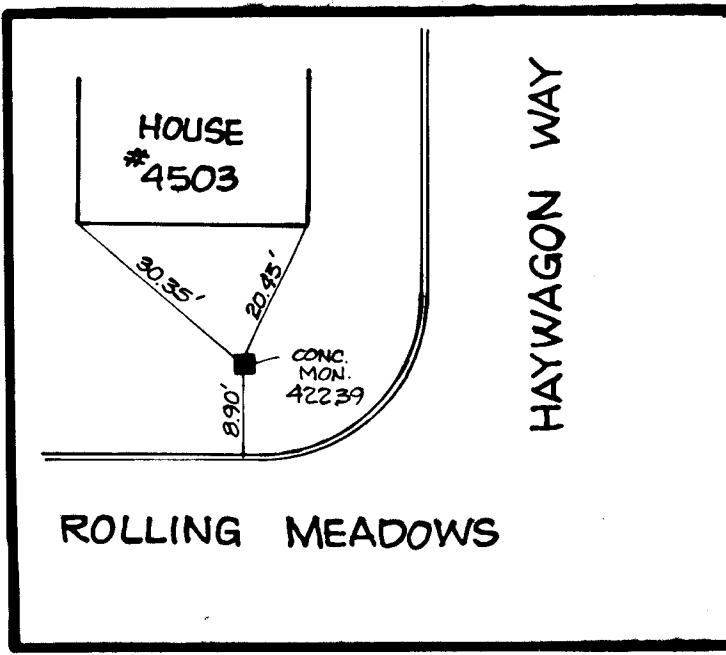
*[Professional Engineer Seal]*

OWNER SECURITY DEVELOPMENT CORP. PO BOX 417 ELLICOTT CITY, MARYLAND 21043	PROJECT <b>LONG GATE</b> SECTION 2, AREA 1, LOTS 192 THRU 242
DEVELOPER SECURITY DEVELOPMENT CORP. PO BOX 417 ELLICOTT CITY, MARYLAND 21043	LOCATION 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP NO. 30 ZONING MAP NO. 30 PARCEL 18
TITLE <b>PLAN OF WHEATFIELD WAY AND LITTLEFIELD COURT</b> ZD-213M 087-11 PBT-41	DATE MARCH 5, 1987 PROJECT NO 0600 R50
DES. RJW/COT DRN. JLR	SCALE 1" = 50' DRAWING 2 OF 11

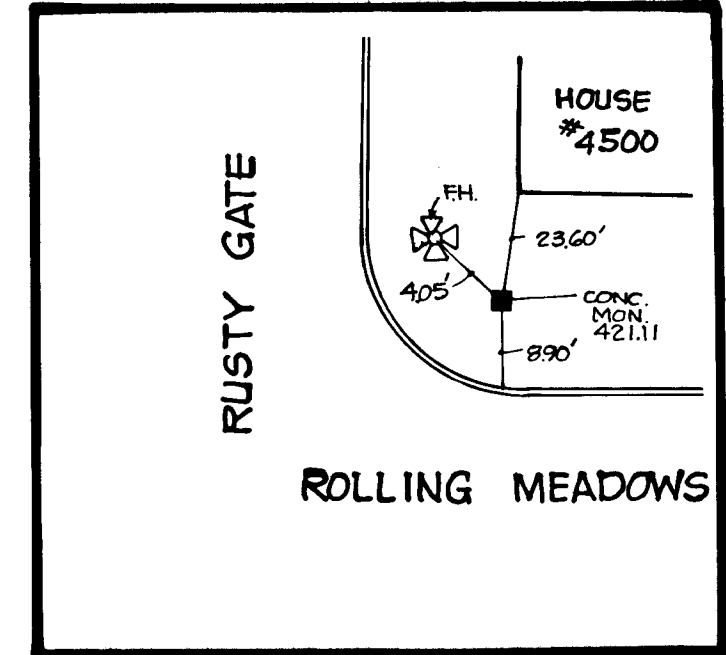
AS-BUILT 8-8-89 F-87-195

1162

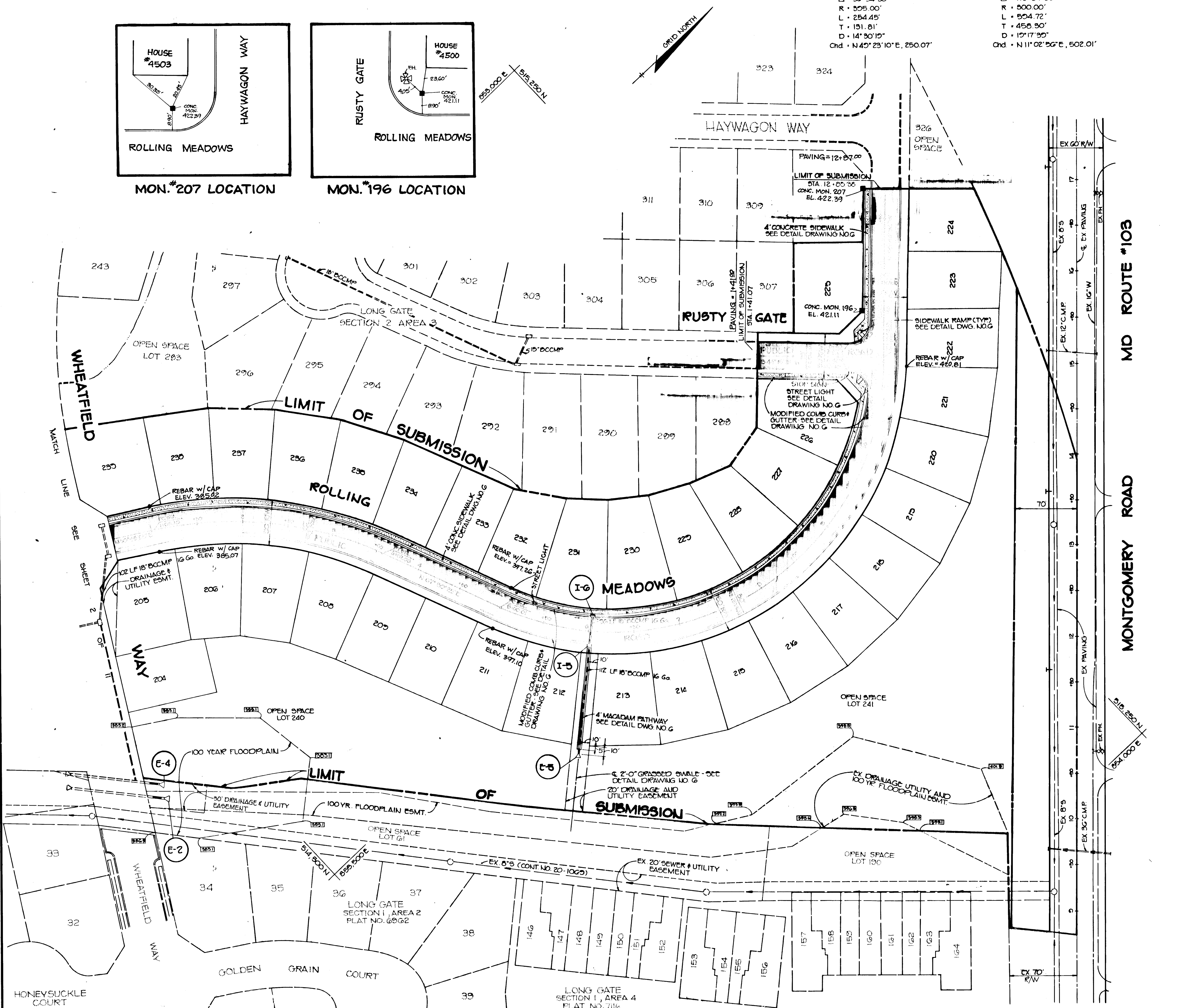
CURVE DATA	CURVE DATA
ROLLING MEADOWS & STA. 1+09.10 TO & STA. 3+57.65	ROLLING MEADOWS & STA. 5+00.01 TO & STA. 10+04.73
Δ = 30° 54' 30"	Δ = 113° 54' 50"
R = 505.00'	R = 500.00'
L = 254.45'	L = 504.72'
T = 151.81'	T = 456.50'
D = 14° 30' 15"	D = 12° 17' 30"
Chd = N45° 23' 10" E, 250.07'	Chd = N11° 02' 56" E, 502.01'



MON. #207 LOCATION

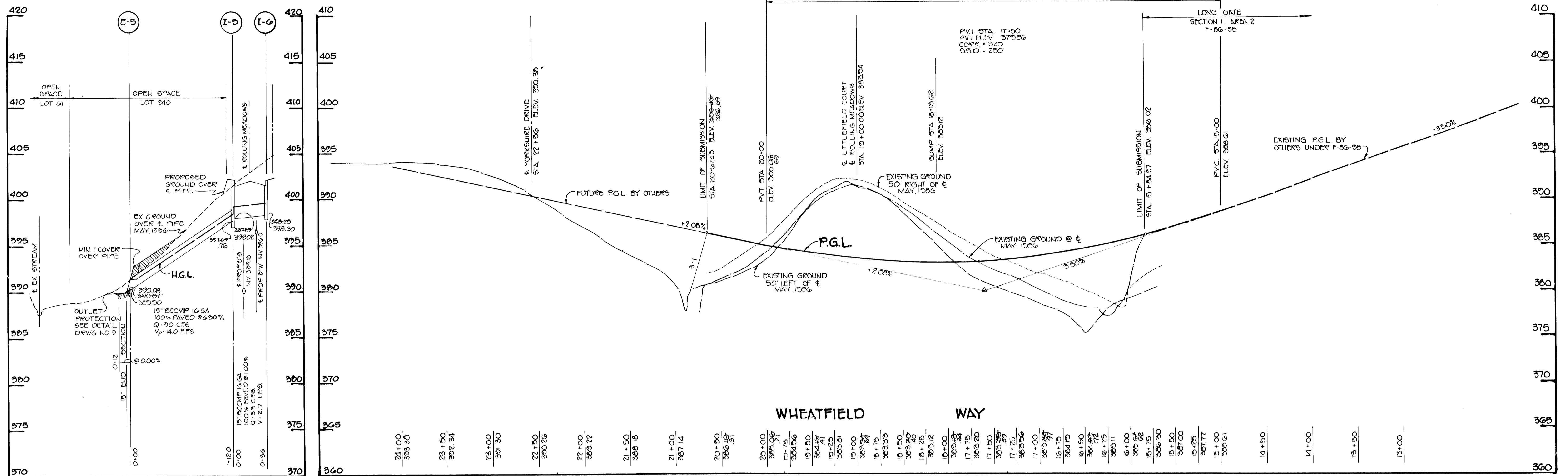


MON. #196 LOCATION



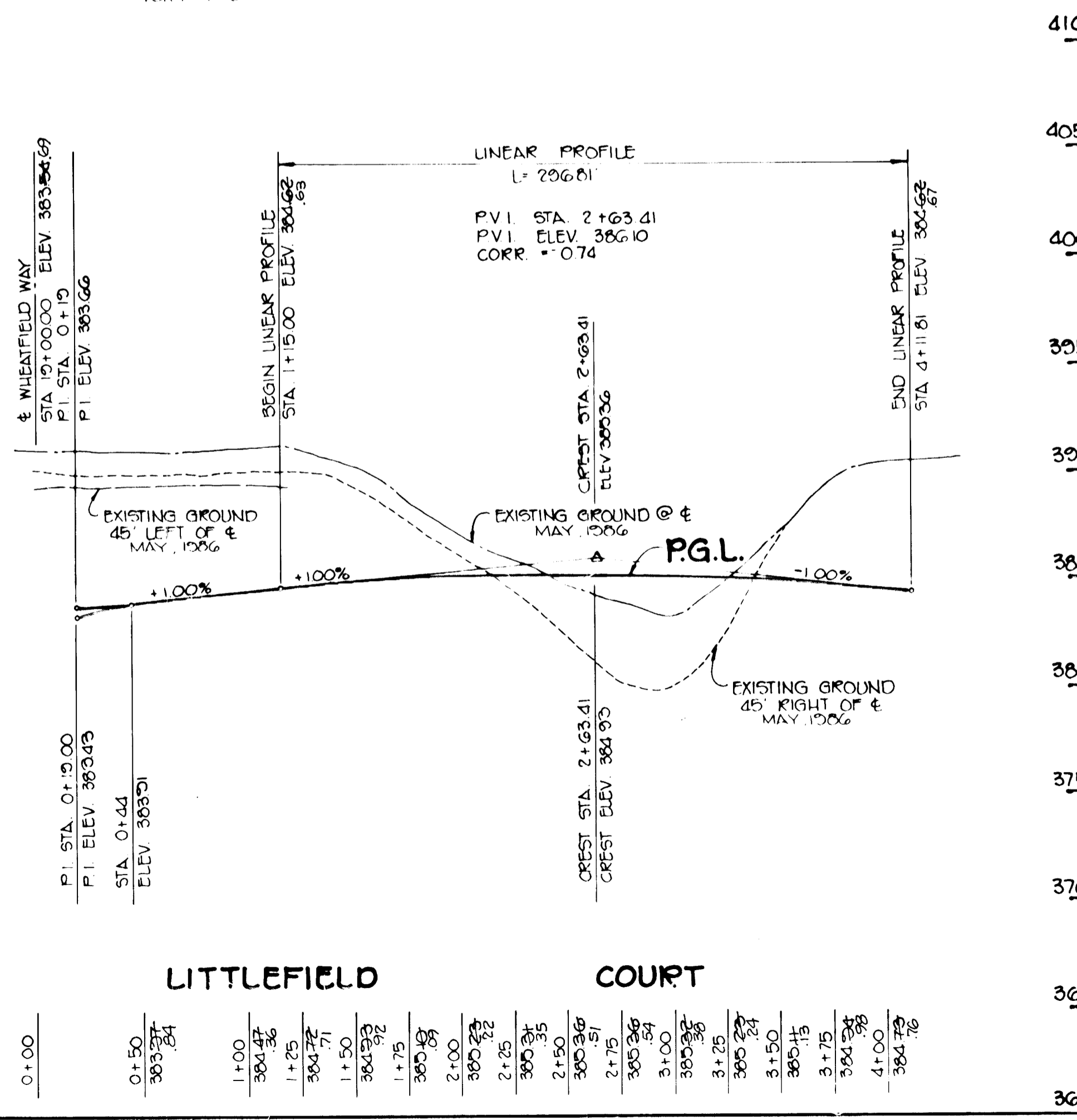
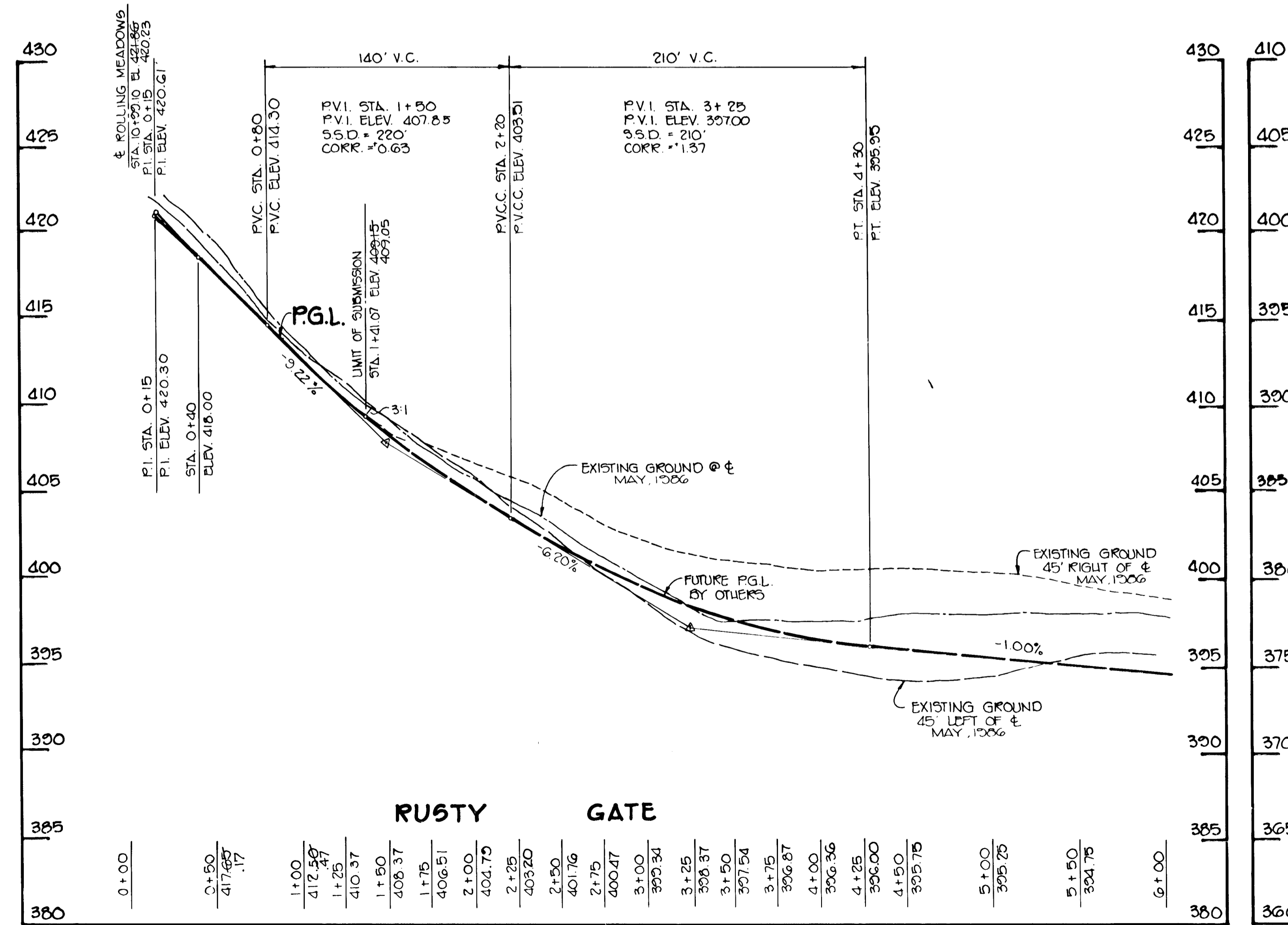
AS-BUILT SURVEY CERTIFIED BY  
RICARDO HERNANDEZ, PLS No. 438  
ON 8-8-87

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Richard E. Ray</i> CHIEF, BUREAU OF ENGINEERING	8-20-87 DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>John W. Mueckler</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	8-18-87 DATE
8-9-88	REMOVED TURN-AROUNDS & BARRICADES ON RUSTY GATE & ROLLING MEADOWS
NO	DATE
REVISION	
<b>TRACY, SCHULTE &amp; ASSOCIATES INC.</b> planning • architecture • engineering 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105	
OWNER	PROJECT
SECURITY DEVELOPMENT CORP. PO BOX 417 ELLICOTT CITY, MARYLAND 21043	<b>LONG GATE</b> SECTION 2, AREA 1 LOTS 192 THRU 242
DEVELOPER	LOCATION
SECURITY DEVELOPMENT CORP. PO BOX 417 ELLICOTT CITY, MARYLAND 21043	2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP NO. 30 ZONING MAP NO. 30 PARCEL 18
DES. RJW/COT	DRN JLR
DATE MARCH 3, 1987	PROJECT NO 6650 RSD
SCALE 1" = 50'	DRAWING 5 OF 11



**PROFILES**

HORIZ. 1" = 50'  
SCALE VERT. 1" = 5'

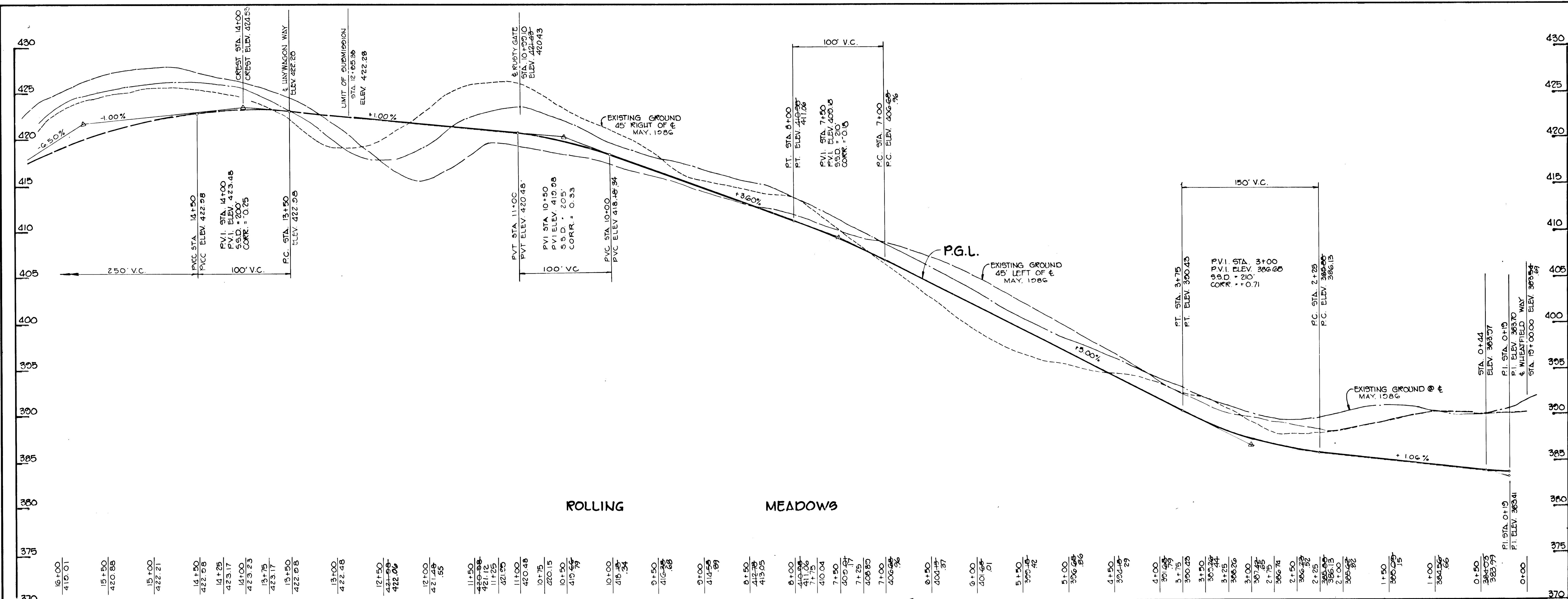


**PROFILES**

SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

AS-BUILT SURVEY CERTIFIED BY RICARDO HERNANDEZ, P.L.S. No. 438 ON 8-8-89

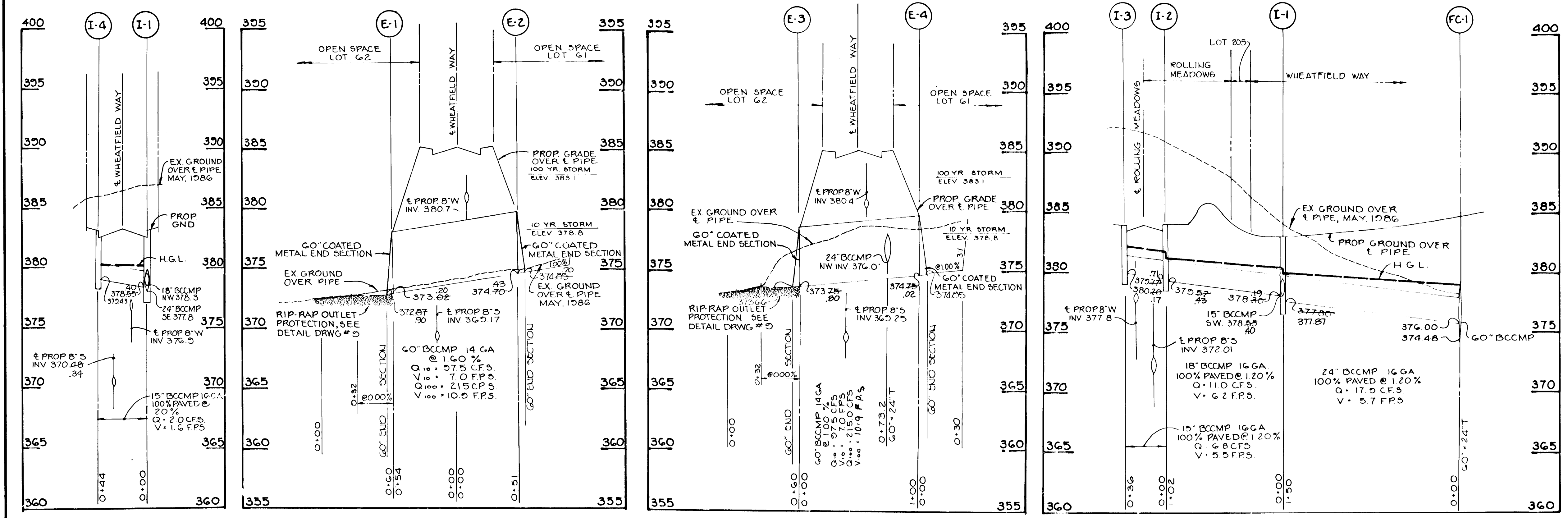
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		8-20-87	
W. & R. [Signature]		DATE	
CHIEF, BUREAU OF ENGINEERING		8-18-87	
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING		DATE	
John W. [Signature]		DATE	
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION		DATE	
NO	DATE	REVISION	
<b>TRACY, SCHULTE &amp; ASSOCIATES INC.</b> planning • architecture • engineering 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105			
OWNER		PROJECT	
SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043		LONG GATE SECTION 2, AREA 1 LOTS 192 THRU 242 TAX MAP NO 30 PARCEL 18 ZONING MAP NO 30 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
DEVELOPER		TITLE	
SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043		PROFILES	
DATE MARCH 3, 1987		PROJECT NO 8659 RSD	
DES	CDT	DRN	KMN
SCALE HORIZ. 1" = 50'		DRAWING 4 OF 11	



ROLLING MEADOWS

NOTE: MAINTAIN 1'-0" MINIMUM CLEARANCE AT ALL UTILITY CROSSINGS

PROFILE  
SCALE: H-1"=5'0"  
V-1"=5'

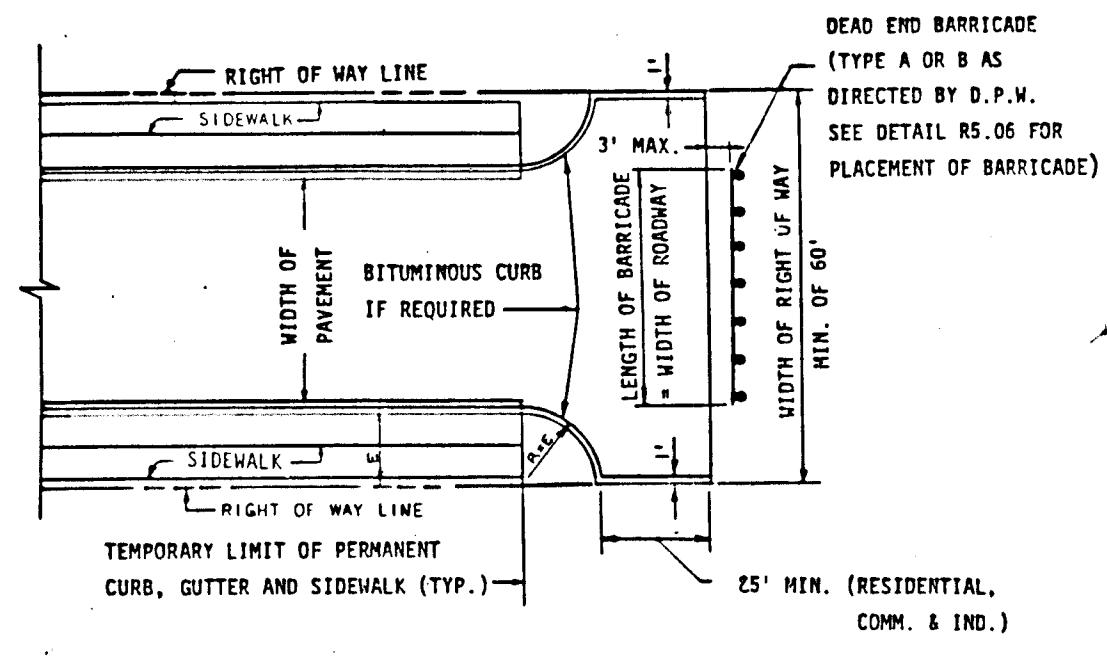
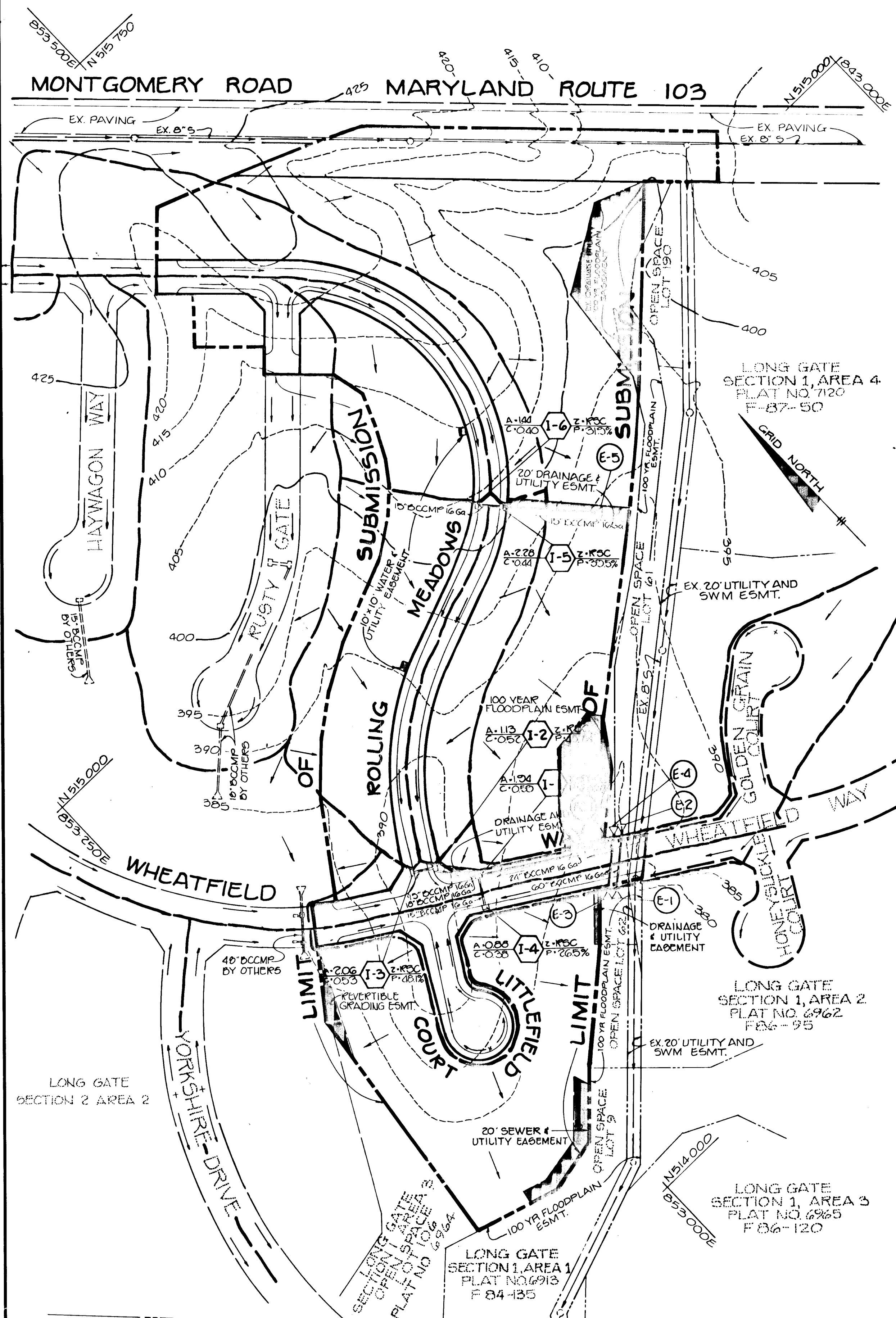
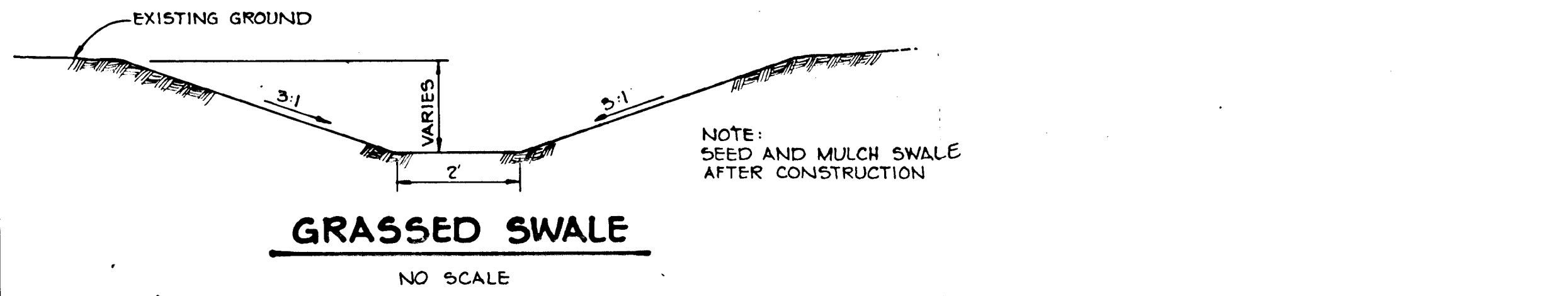


PROFILES SCALE: H-1"=5'0"  
V-1"=5'

AS-BUILT SURVEY CERTIFIED BY  
RICARDO HERNANDEZ, MD. REG.  
P.L.S. No. 438 ON 8-8-89

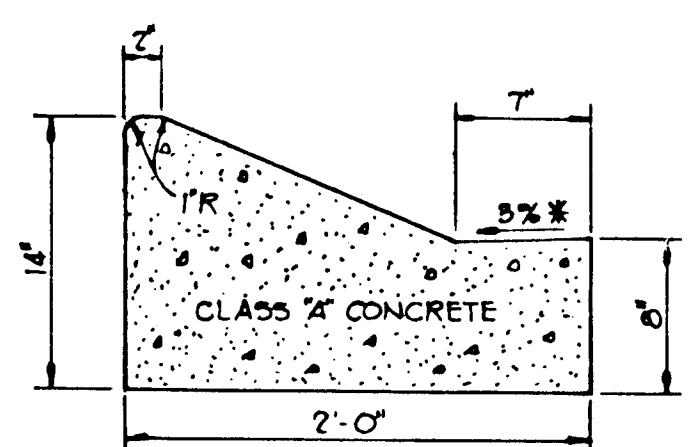
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		8-28-87	
CHIEF, BUREAU OF ENGINEERING		DATE	
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING		8-18-87	
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION		DATE	
NO	DATE	REVISION	
<p>TRACY, SCHULTE &amp; ASSOCIATES INC. planning • architecture • engineering 8480 Baltimore National Pike • Ellicott City, Maryland 21041 • (301) 465 6105</p>			
OWNER		PROJECT	
SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043		LONG GATE SECTION 2, AREA 1 LOTS 192 THRU 242	
DEVELOPER		LOCATION	
SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043		TAX MAP NO. 30 PARCEL 18 ZONING MAP NO. 30 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
DES CDT		TITLE	
DRN KMN		PROFILES	
SCALE		DATE	
HORIZ: 1"=50'		MARCH 9, 1987	
VERT: 1"=5'		PROJECT NO 8655 RSD	
DRAWING		PAGE	
5 OF 11		P57-41	

AS-BUILT 8-8-89 F-87-195



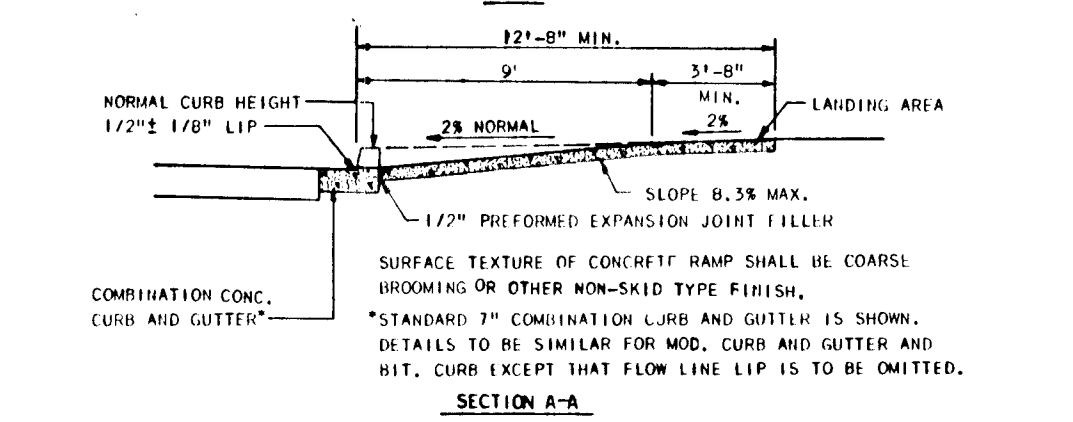
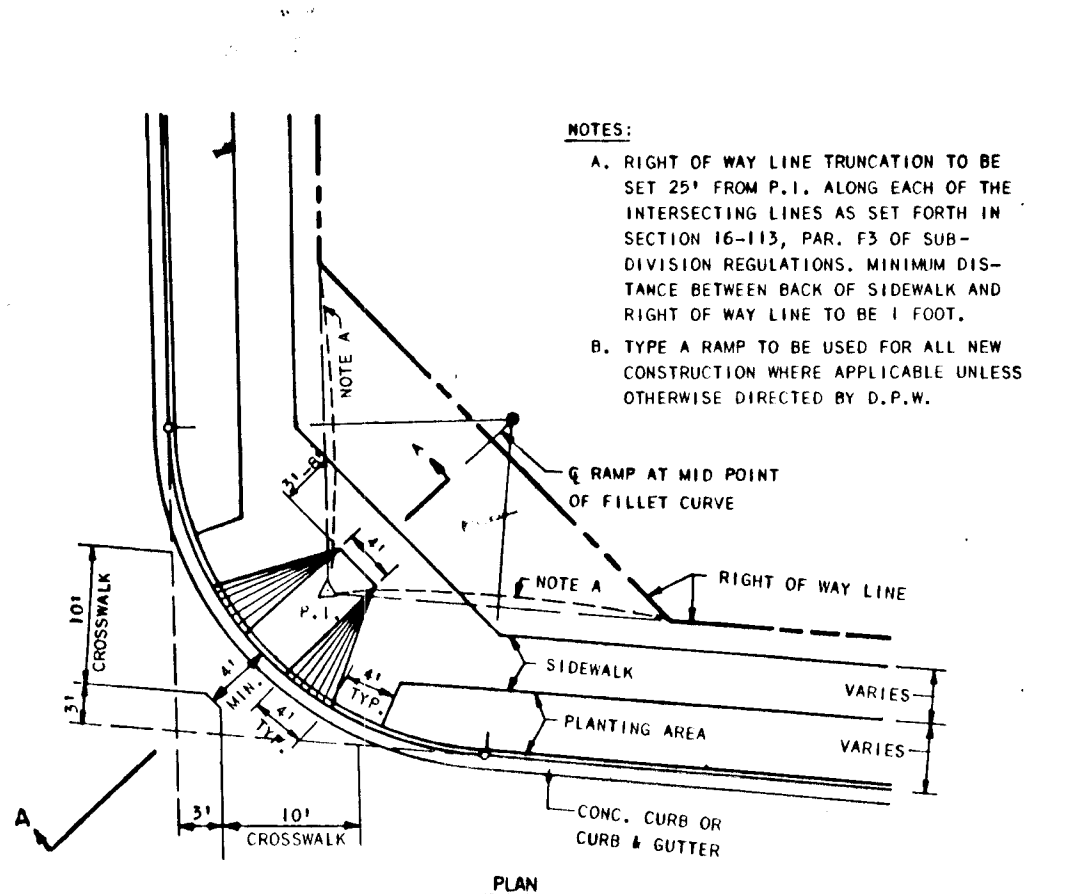
- NOTES:**
1. A TEE TURN-AROUND SHALL BE USED IN LIEU OF A CUL-DE-SAC ONLY IF THE STREET IS TO BE EXTENDED IN THE FUTURE.
  2. BITUMINOUS CURB SHALL EXTEND AROUND THE TEE TURN-AROUND IF AND AS REQUIRED TO CONTROL CURB DRAINAGE FROM THE ROADWAY SECTION.
  3. REFER TO STANDARD R-5.06 FOR TYPICAL ROADWAY PROFILE OF TEMPORARY LIMIT OF PAVING.
  4. FOR LOCAL ROADS, PROVIDE 5' REVERTIBLE EASEMENT EACH END OF THE TEE.
  5. PROVIDE EASEMENTS AS REQUIRED FOR PLACEMENT OF BARRICADE AND ANY NECESSARY GRADING (SEE DETAIL R5.06)

**TEMPORARY TEE TURN-AROUND**  
NO SCALE

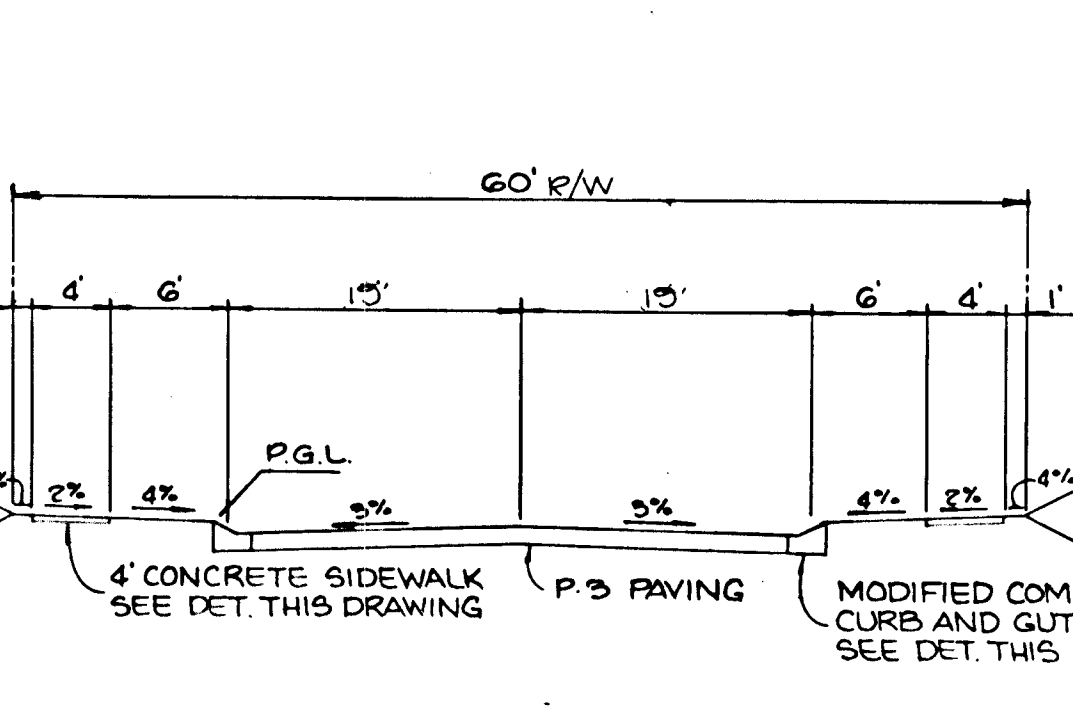


HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-3.01)  
\* GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

**MODIFIED COMBINATION CURB AND GUTTER**  
No Scale

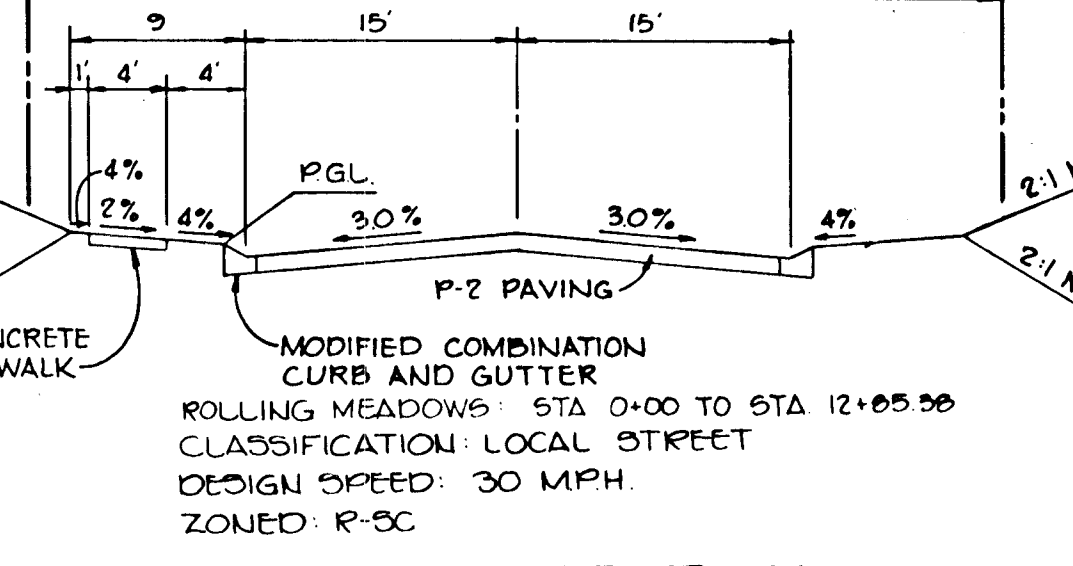


**SIDEWALK RAMP DETAIL**  
NO SCALE



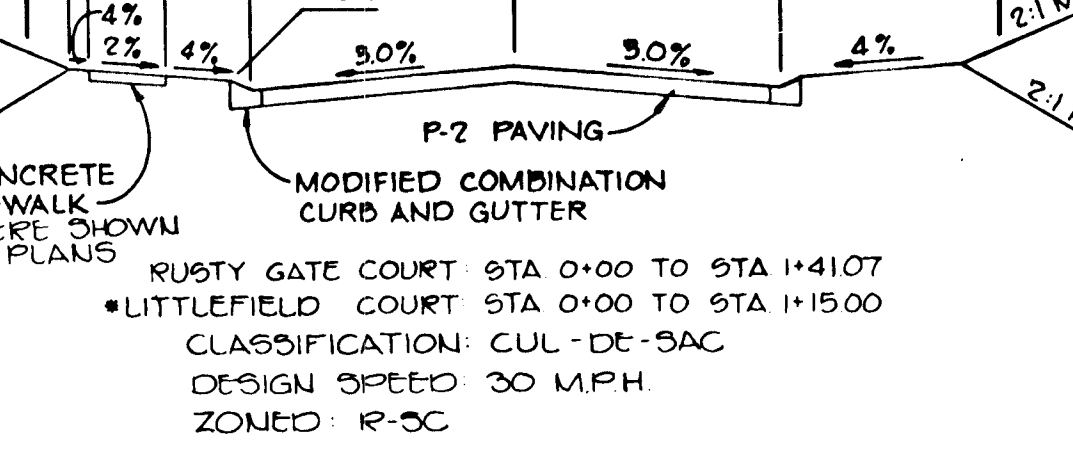
WHEATFIELD WAY STA 15+64.37 TO STA 20+67.43  
CLASSIFICATION: MILL COLLECTOR  
DESIGN SPEED: 35 MPH  
ZONED R-3C

**TYPICAL SECTION**  
NO SCALE



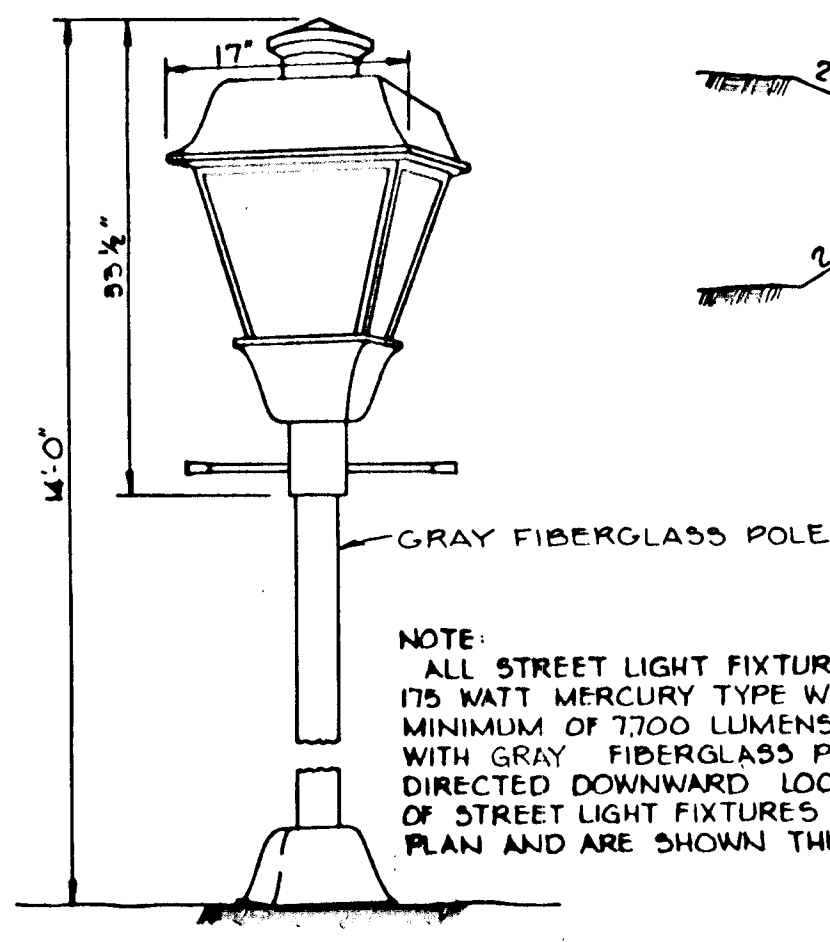
ROLLING MEADOWS: STA 0+00 TO STA 12+05.00  
CLASSIFICATION: LOCAL STREET  
DESIGN SPEED: 30 MPH  
ZONED R-3C

**TYPICAL SECTION**  
NO SCALE

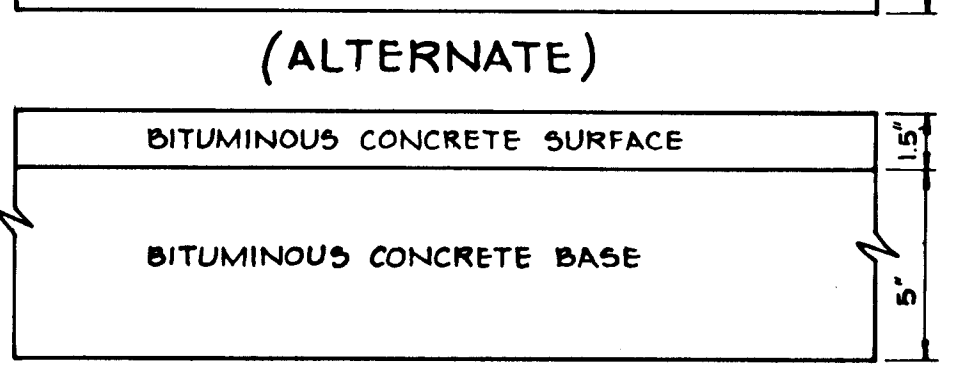
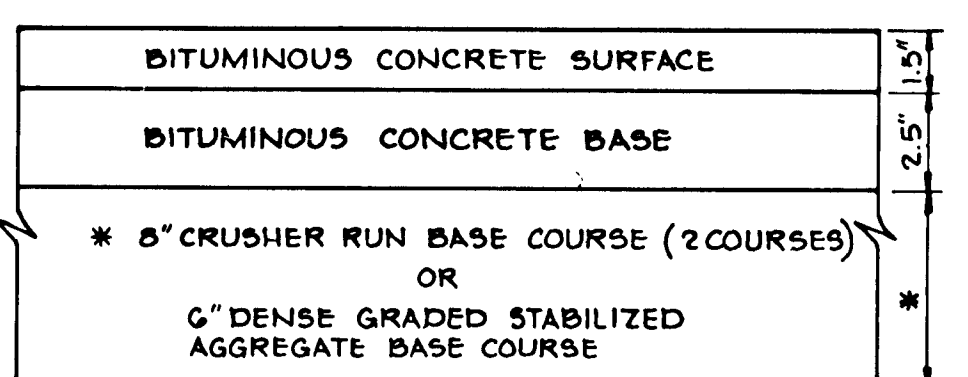


RUSTY GATE COURT STA 0+00 TO STA 1+41.07  
LITTLEFIELD COURT STA 0+00 TO STA 1+15.00  
CLASSIFICATION: CUL-DE-SAC  
DESIGN SPEED 30 MPH  
ZONED R-3C

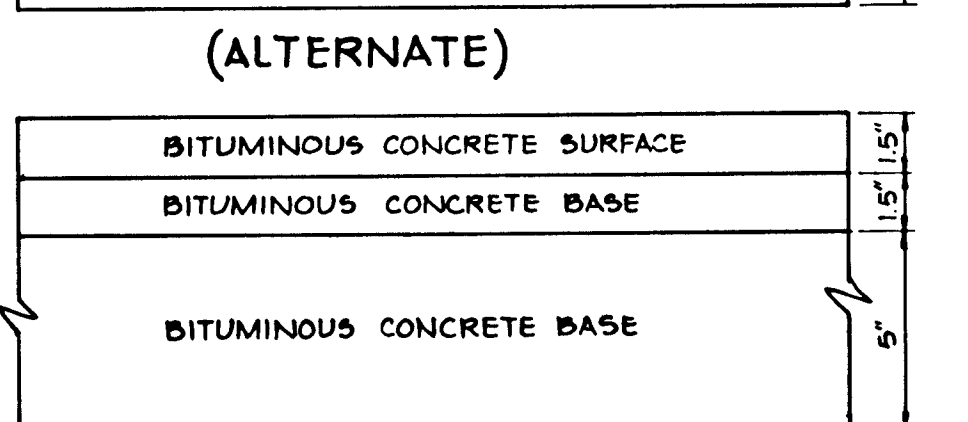
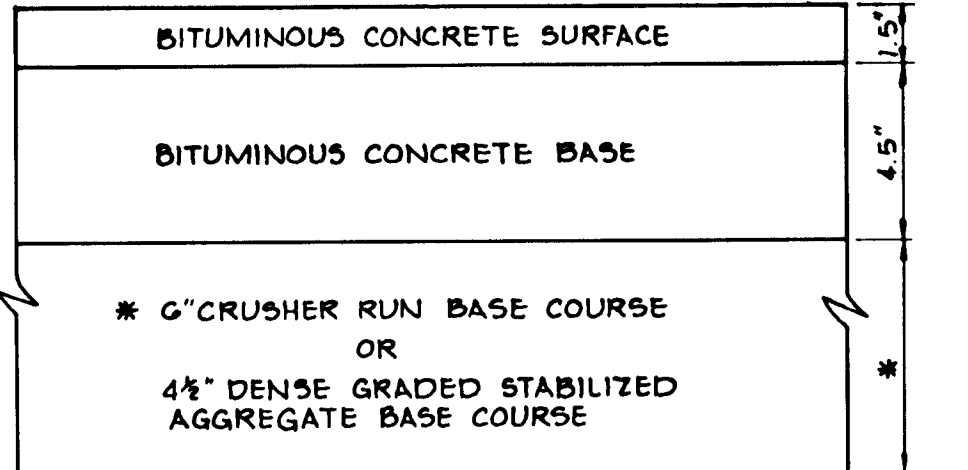
**TYPICAL SECTION**  
NO SCALE



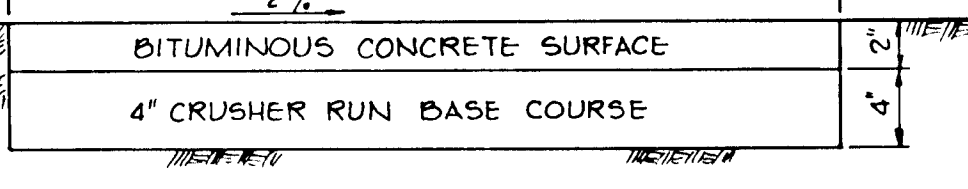
**DETAIL - LIGHTING FIXTURE**  
No Scale



HOWARD COUNTY DESIGN MANUAL VOLUME IV  
STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)  
**LITTLEFIELD COURT  
RUSTY GATE COURT  
ROLLING MEADOWS  
6 1/2" PAVING, P-2**  
NO SCALE



HOWARD COUNTY DESIGN MANUAL VOLUME IV  
STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)  
**WHEATFIELD WAY  
8" PAVING, P-3**  
NO SCALE



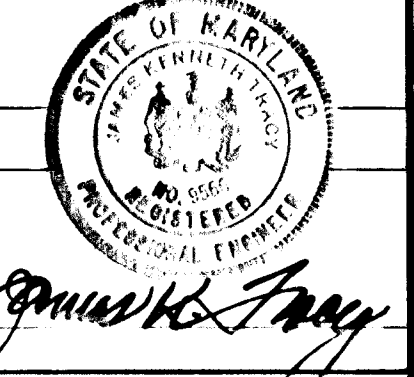
**MACADAM PATHWAY DETAIL**  
NO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*Kevin S. Reil* 8-20-87  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*John W. Marchman* 8-18-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
planning • architecture • engineering  
8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465 6105

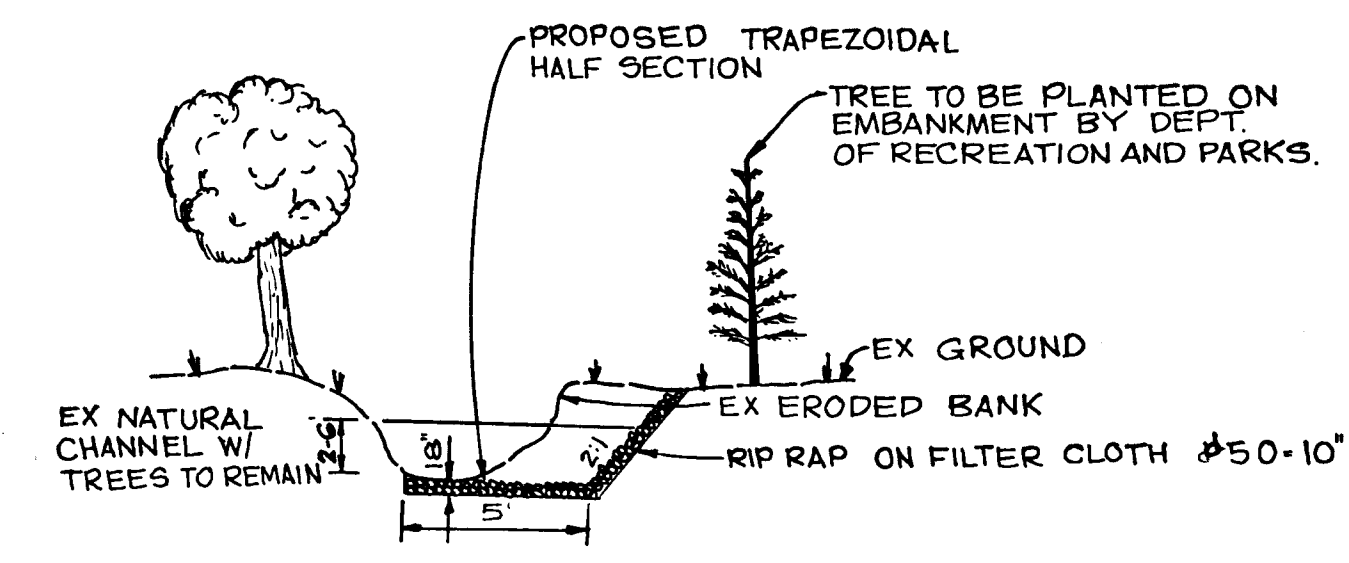


OWNER SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	PROJECT <b>LONG GATE SECTION 2 AREA 1 LOTS 192 THRU 242</b>
DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	LOCATION 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP NO 30 ZONING MAP NO 30 PARCEL 18
DES: PJW	TITLE <b>DETAILS AND DRAINAGE AREA MAP</b>
DRN: SAB / JH	DATE: MAR 2 1987 PROJECT NO: 8650 PSD
	SCALE: AS SHOWN DRAWING 6 OF 11

F-87-175

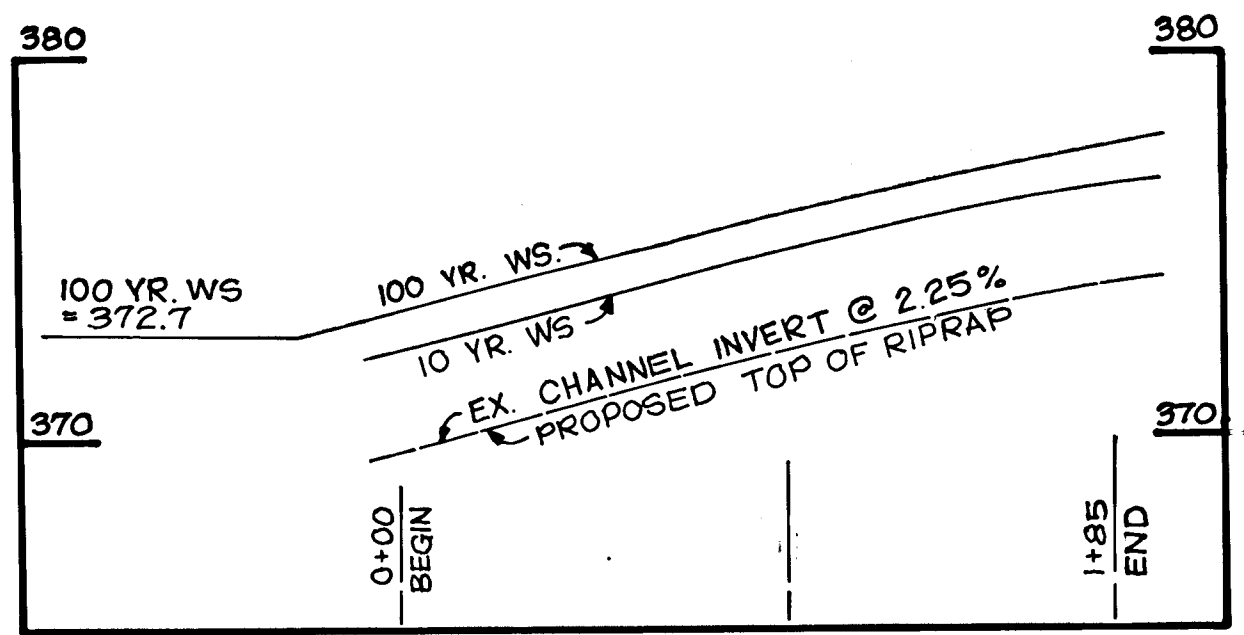
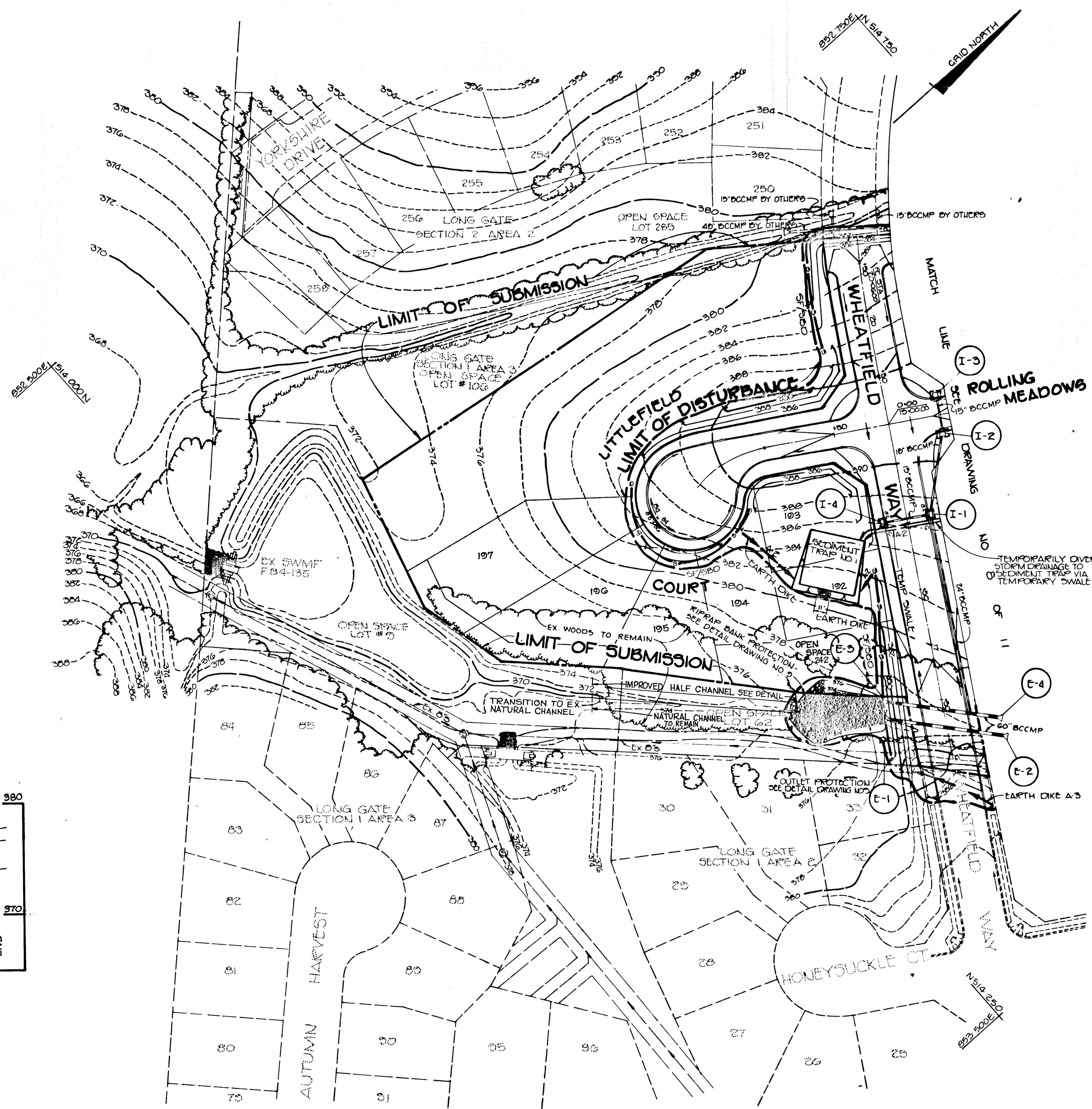
**SEDIMENT TRAP NO. 1**

DRAINAGE AREA	2.68 Ac.
DISTURBED AREA	2.33 Ac.
STORAGE VOLUME REQUIRED	4824 CF
PROVIDED	5000 CF
CREST ELEV	380.5
CLEAN OUT ELEV	378.5
BOTTOM ELEV	377.5
TRAP DIMENSIONS	50'x50'x2.0'



- NOTES:
1. HALF CHANNEL IMPROVEMENTS TO BE CONSTRUCTED THROUGHOUT THE LENGTH OF THE EXISTING ERODED BANK.
  2. INVERT OF FINISHED RIPRAP TO BE AT ELEVATION OF EXISTING CHANNEL INVERT. (SEE PROFILE THIS SHEET.)

**HALF CHANNEL IMPROVEMENTS**  
NOT TO SCALE



**PROPOSED SWALE**  
SCALE H = 1" = 5'  
V = 1" = 5'

BY THE ENGINEER:  
"I 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."  
*James K. Tracy*  
ENGINEER: JAMES K. TRACY, INC. DATE: 8-14-87

BY THE DEVELOPER:  
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT 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."  
*James R. Moxley, Jr.*  
DEVELOPER: JAMES R. MOXLEY, JR. DATE: 8-14-87  
SECURITY DEVELOPMENT CORPORATION - PRESIDENT

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
*James M. Helm*  
U.S. SOIL CONSERVATION SERVICE DATE: 8-18-87

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*James M. Helm*  
HOWARD S.C.D. DATE: 8-18-87

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*James B. ...*  
CHIEF, BUREAU OF ENGINEERING DATE: 8-20-87

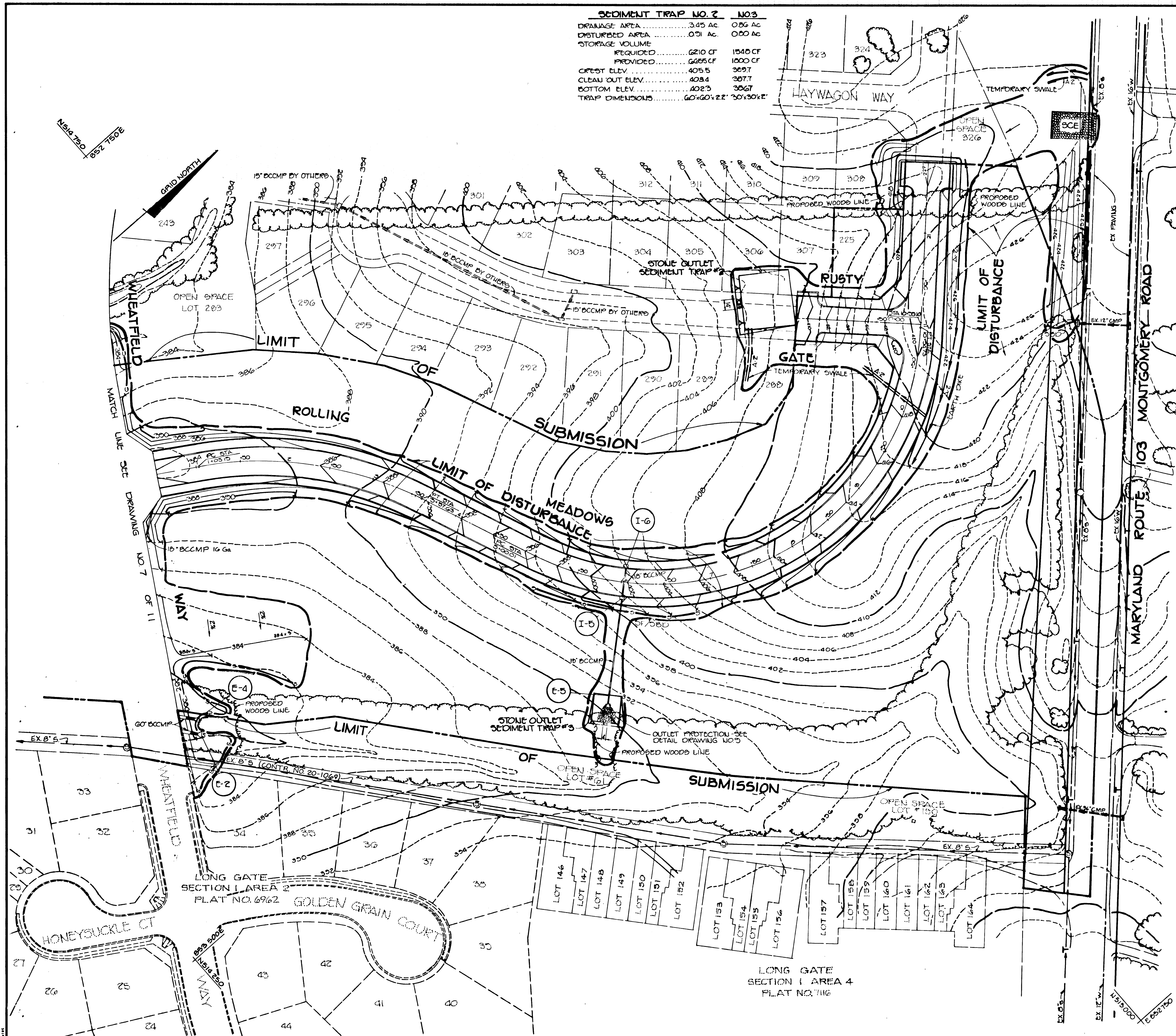
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John W. ...*  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE: 8-18-87

NO.	DATE	ADDED DETAILS	REVISION
3-22-91			

**TRACY, SCHULTE & ASSOCIATES INC.**  
planning • architecture • engineering  
8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELICOTT CITY, MARYLAND 21043	PROJECT <b>LONG GATE</b> SECTION 2, AREA 1 LOTS 192 THRU 242
DEVELOPER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELICOTT CITY, MARYLAND 21043	LOCATION 2ND ELECTION DISTRICT, HOWARD COUNTY, MD. TAX MAP NO. 30 ZONING MAP NO. 30 PARCEL 18
DES: RJW	TITLE <b>GRADING AND SEDIMENT CONTROL PLAN</b> 207-11 P-87-41
DRN: JH/JCA	DATE: MARCH 5, 1987 PROJECT NO: 0600 RSD
	SCALE: 1" = 50' DRAWING: 7 OF 11

SEDIMENT TRAP NO. 2		NO. 3	
DRAINAGE AREA	3.45 AC	0.86 AC	
DISTURBED AREA	0.91 AC	0.00 AC	
STORAGE VOLUME			
REQUIRED	6210 CF	1540 CF	
PROVIDED	6655 CF	1000 CF	
CREST ELEV.	405.5	389.7	
CLEAN OUT ELEV.	403.4	387.7	
BOTTOM ELEV.	402.3	386.7	
TRAP DIMENSIONS	60' x 60' x 2.2'	30' x 30' x 2'	



BY THE ENGINEER:  
 "I 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."  
*James K. Tracy* 8-14-87  
 ENGINEER: JAMES K. TRACY, E. DATE

BY THE DEVELOPER:  
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT 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."  
*James R. Moxley, Jr.* 8-14-87  
 DEVELOPER: JAMES R. MOXLEY, JR.  
 SECURITY DEVELOPMENT CORPORATION - PRESIDENT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS  
*James M. Helm* 8-18-87  
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*Stephen L. Gal* 8/18/87  
 HOWARD S.C.D. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William E. R...* 8-20-87  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John W. M...* 8-18-87  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

NO.	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
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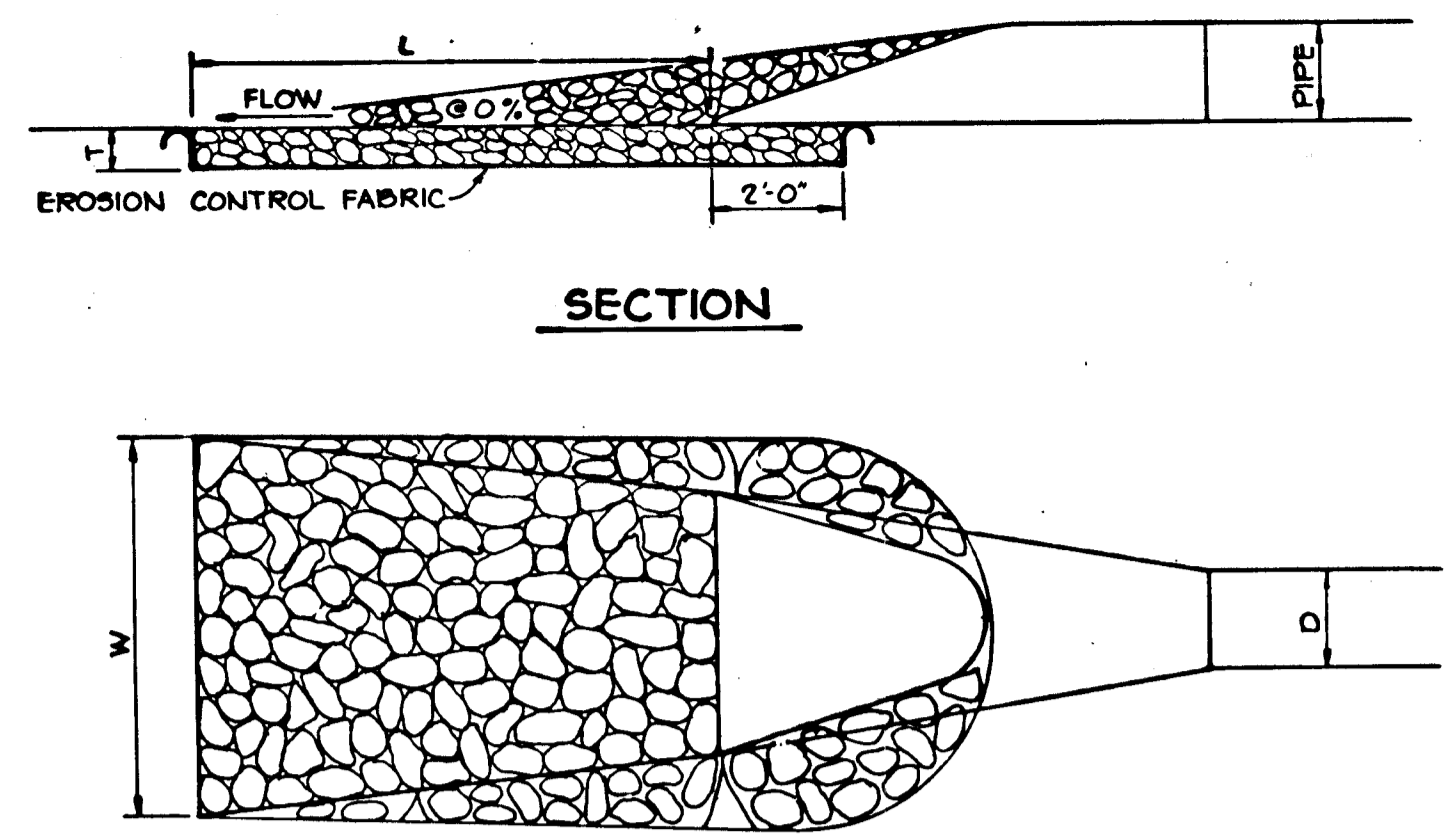
OWNER SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043	PROJECT <b>LONG GATE</b> SECTION 2 AREA 1 LOTS 102 THRU 242
DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043	LOCATION 2ND ELECTION DISTRICT HOWARD COUNTY, MD. TAX MAP NO. 30 ZONING MAP NO. 30 PARCEL 15
TITLE <b>GRADING AND SEDIMENT CONTROL PLAN</b> ZS-819 M P-87-41	DATE MAR 5 1987 PROJECT NO. 8603 RSD
DES. RJW DRN. JH/JCA	SCALE 1" = 50' DRAWING 8 OF 11

F-87-195



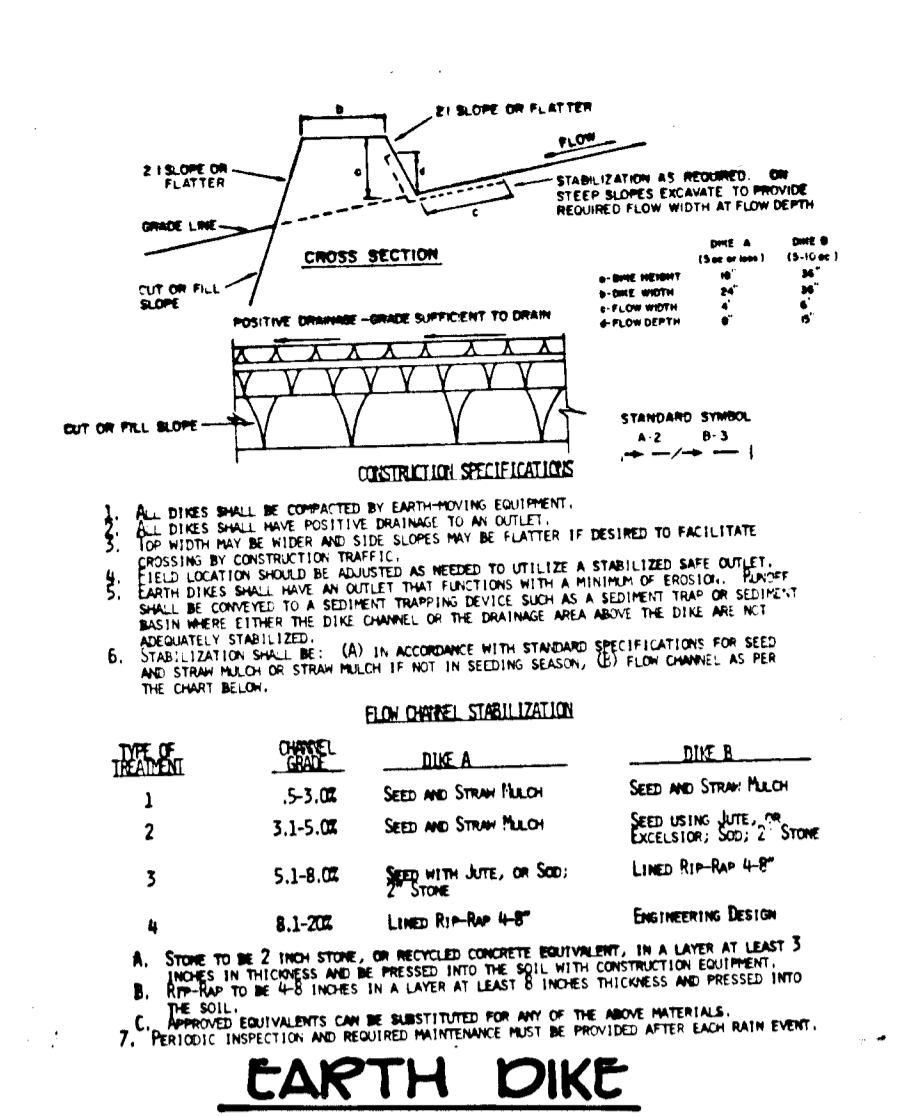
STORM WATER MANAGEMENT FOR LONG GATE, SECTION 2, AREA 1 IS PROVIDED UNDER F-84-135.

DAY 1	1. OBTAIN A GRADING PERMIT.
DAY 2-3	2. CLEAR AND GRUB AREA FOR AND INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE).
DAY 3-7	3. CLEAR AND GRUB REMAINING AREAS FOR SEDIMENT CONTROL DEVICE INSTALLATION.
DAY 7-11	4. INSTALL SEDIMENT TRAPS 1, 2 AND 3 AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
DAY 11-14	5. INSTALL REMAINDER OF SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
DAY 14-20	6. CLEAR AND GRUB REMAINDER OF SITE.
DAY 20-50	7. GRADE SITE.
DAY 50-92	8. INSTALL UTILITIES (WATER, SEWER AND STORM DRAINS). BLOCK INLETS 1-1, 1-2, 1-3 AND 1-4.
DAY 92-100	9. STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
DAY 100-126	10. COMPLETE ALL ROADWAY CONSTRUCTION. MAINTAIN INLET BLOCKING AT 1-1 THROUGH 1-4. LEAVE TEMPORARY CURB OPENING IN SOUTH CURB ADJACENT TO 1-4 AT LOW POINT TO ALLOW RUNOFF TO ENTER SEDIMENT TRAP NO. 1. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
DAY 126-133	11. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, PLACE CURB AT OPENING ADJACENT TO 1-4 AND REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.



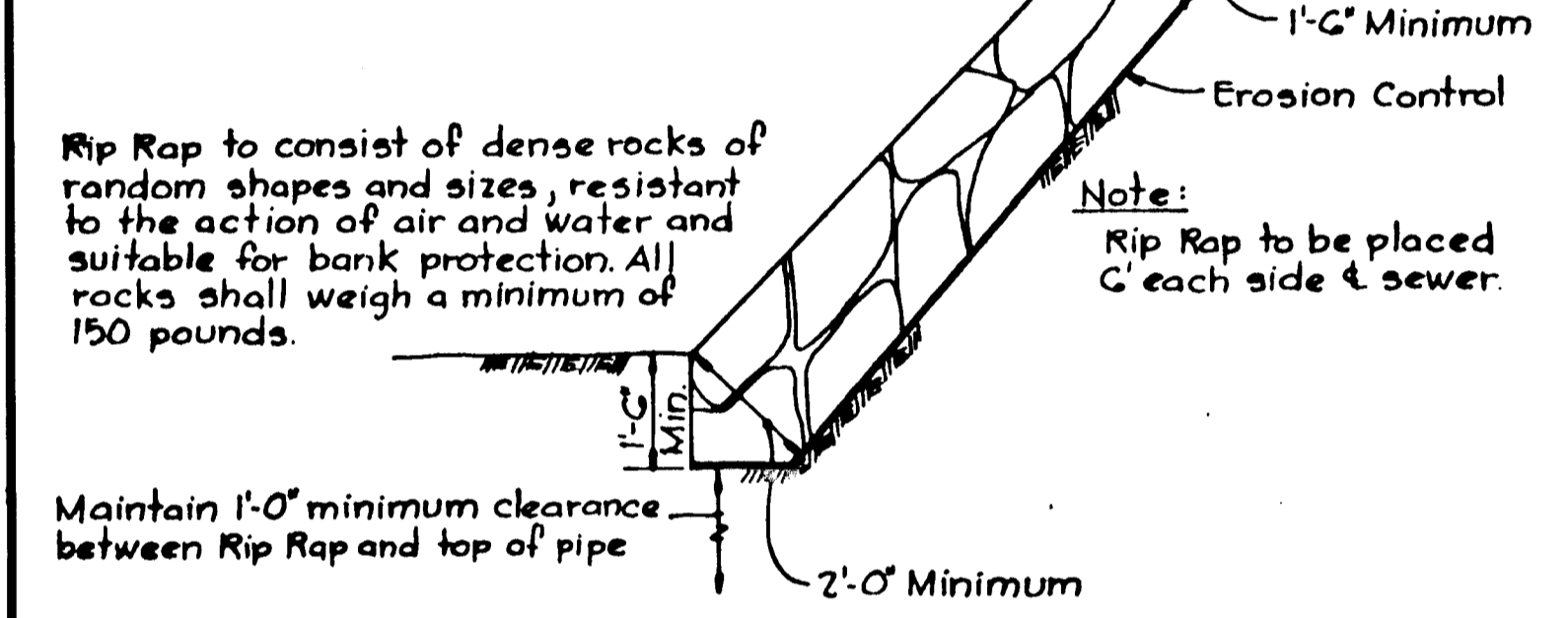
STRUCTURE	d - 50	LENGTH (L)	WIDTH (W)	THICKNESS (T)
E-1	6"	32'	10'	3"
E-3	6"	32'	10'	3"
E-5	6"	12'	13.25'	3"

OUTLET PROTECTION DETAIL  
NO SCALE

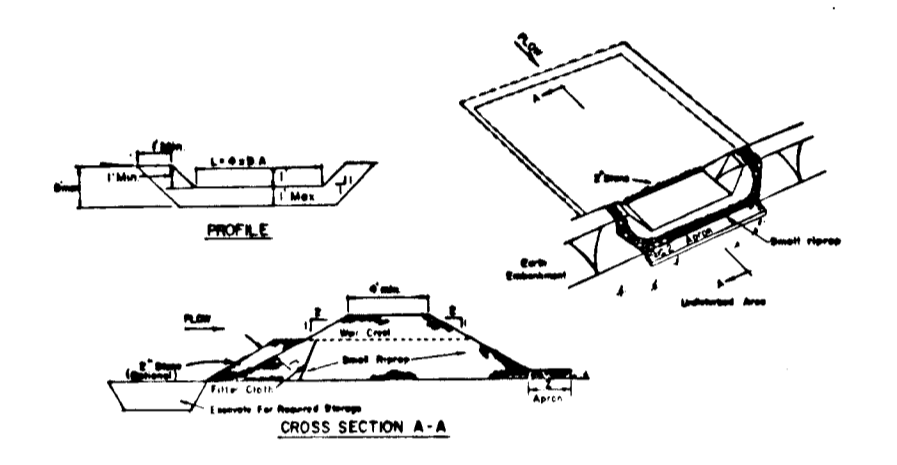


STABILIZED CONSTRUCTION ENTRANCE  
NO SCALE

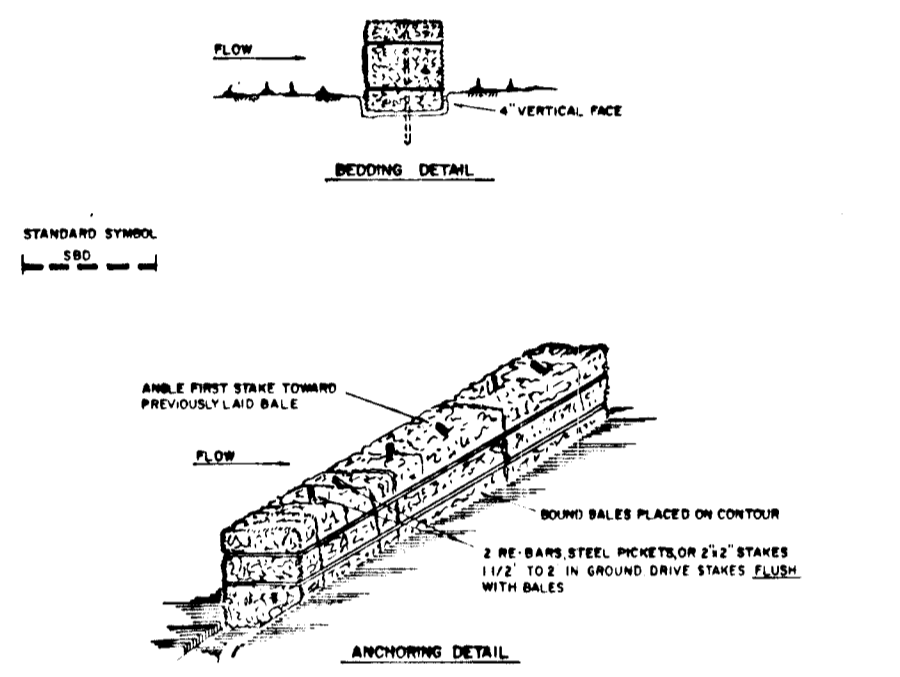
NOTE: Erosion Control Fabric shall be as manufactured by Carthage Mills, Inc. Erosion Control Division, 174 W. 66th Street Cincinnati, Ohio or approved equal.



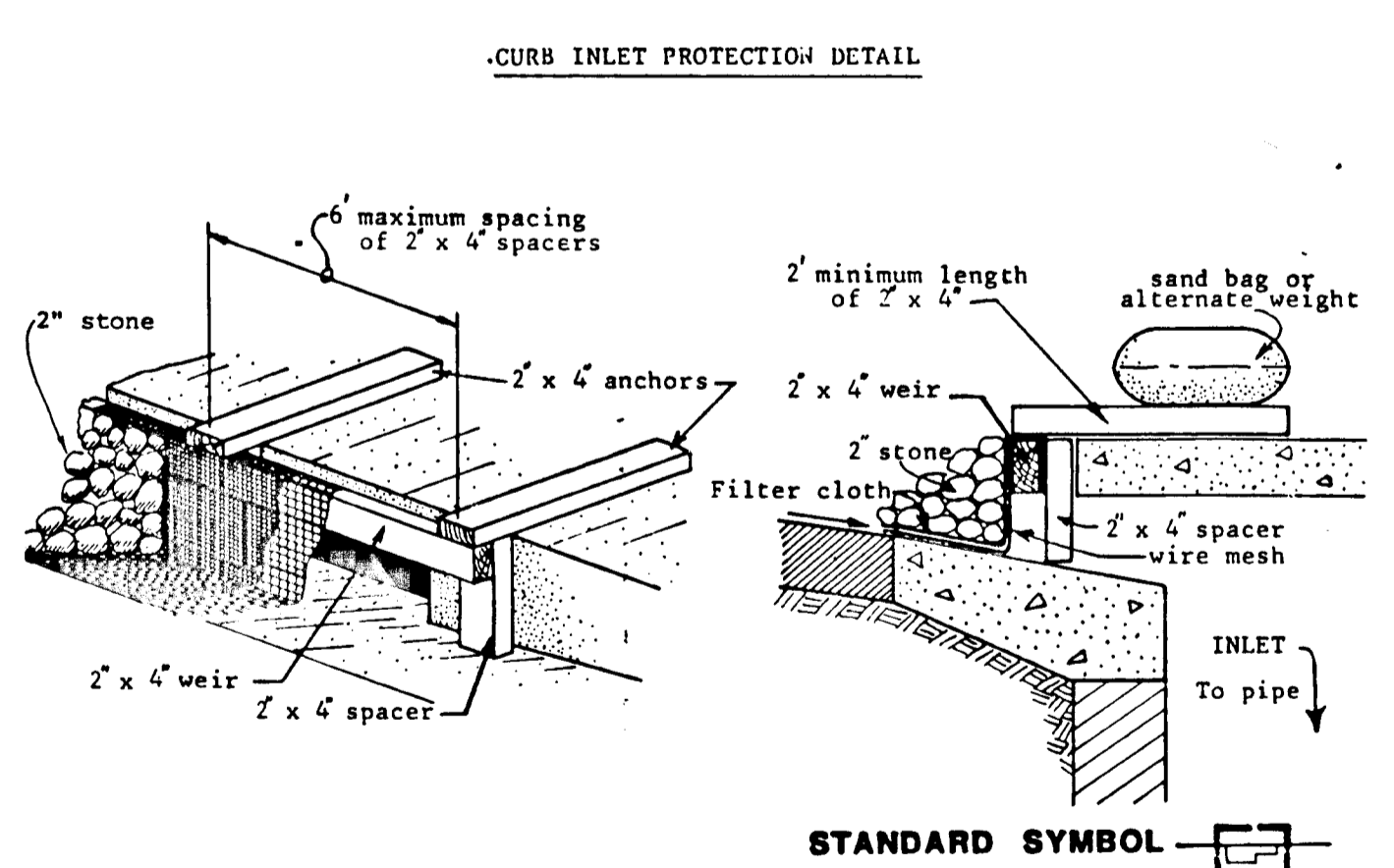
RIPRAP BANK PROTECTION  
SCALE: 3/8" = 1'-0"



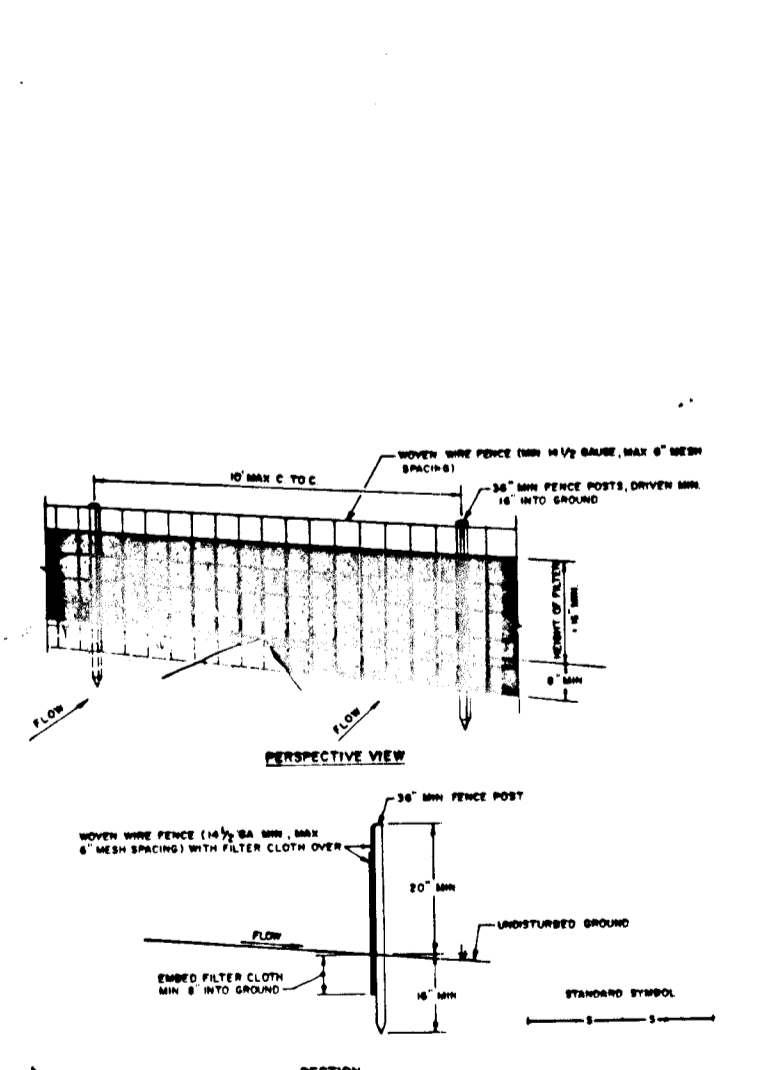
STONE OUTLET SEDIMENT TRAP  
NO SCALE



STRAW BALE DIKE  
NO SCALE



INLET PROTECTION DETAIL  
NO SCALE



SILT FENCE  
NO SCALE

PERMANENT SEEDING NOTES

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 1b/1000 kg ft) AND 400 LBS PER ACRE 10-10-10 FERTILIZER (14 1b/1000 kg ft) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 100-0-0 URINARY FERTILIZER (9 1b/1000 kg ft).

2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 1b/1000 kg ft) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 1b/1000 kg ft) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 50 LBS PER ACRE (1.4 1b/1000 kg ft) OF WINTER RYE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 40 LBS PER ACRE (1.1 1b/1000 kg ft) OF TALL FESCUE. FOR THE PERIOD FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF MEL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS PER ACRE (1.7 1b/1000 kg ft) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GAL PER ACRE (5 1b/1000 kg ft) OF UNDESIEP ANCHOR ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL PER ACRE (8 1b/1000 kg ft) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 400 LBS PER ACRE 10-10-10 FERTILIZER (14 1b/1000 kg ft) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 100-0-0 URINARY FERTILIZER (9 1b/1000 kg ft).

SEEDING - FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 25 LBS PER ACRE (0.7 1b/1000 kg ft) OF WINTER RYE. FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 15 LBS PER ACRE (0.4 1b/1000 kg ft) OF TALL FESCUE. FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 27, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF MEL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

REFER TO 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

TEMPORARY SWALE  
NO SCALE

BY THE ENGINEER:  
"I 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."

*James R. Moxley*  
ENGINEER: JAMES R. MOXLEY, P.E. DATE: 8-14-87

BY THE DEVELOPER:  
"I WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT 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."

*James R. Moxley*  
DEVELOPER: JAMES R. MOXLEY, P.E. DATE: 8-14-87  
SECURITY DEVELOPMENT CORPORATION - PRESIDENT

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

*James M. Helm*  
U.S. SOIL CONSERVATION SERVICE DATE: 8-18-87

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*Stephen L. Helm*  
HOWARD S.C.D. DATE: 8/18/87

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William E. Ray*  
CHIEF, BUREAU OF ENGINEERING DATE: 8-20-87

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John W. Newman*  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE: 8-18-87

NO	DATE	REVISION

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*James R. Moxley*

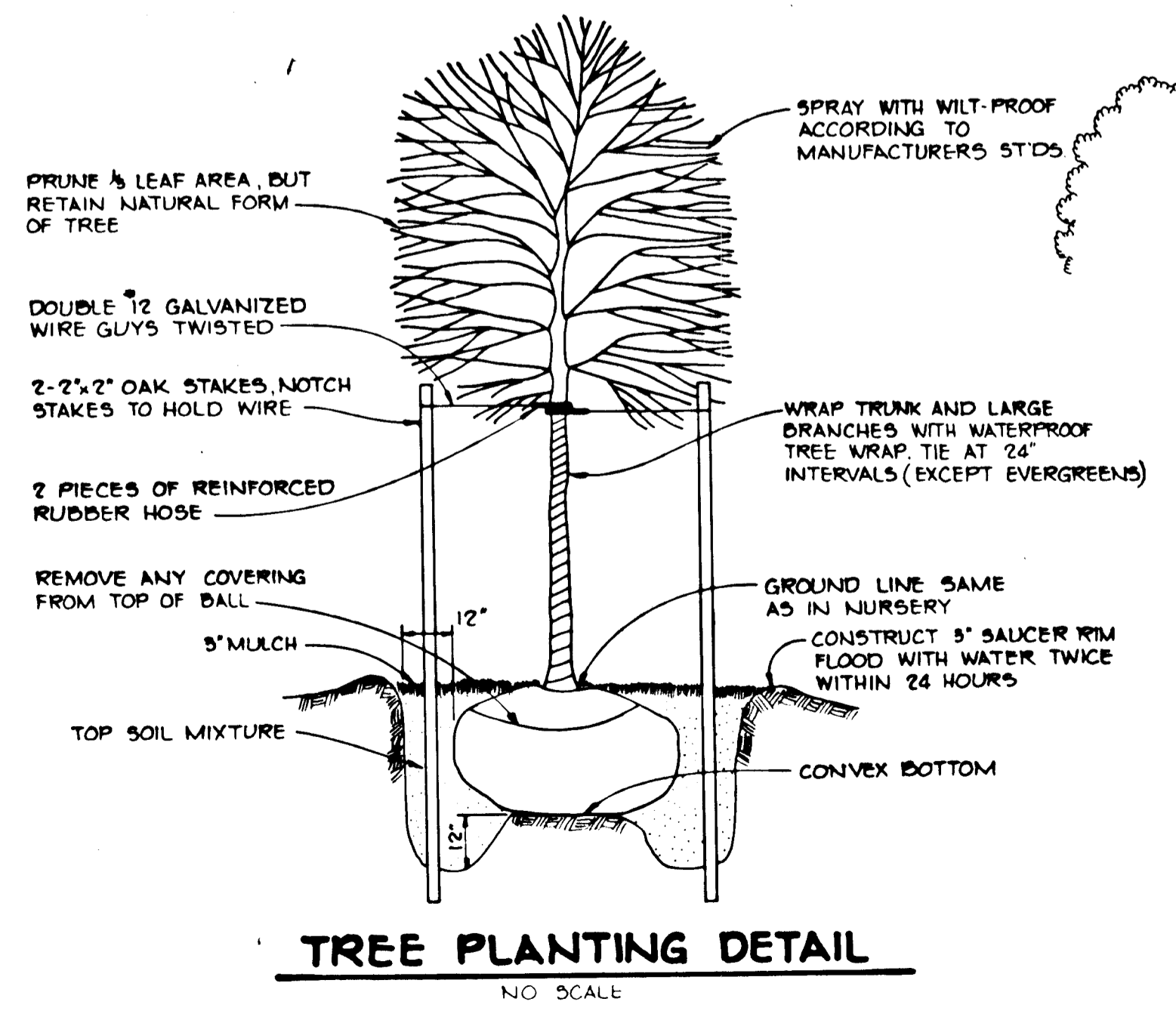
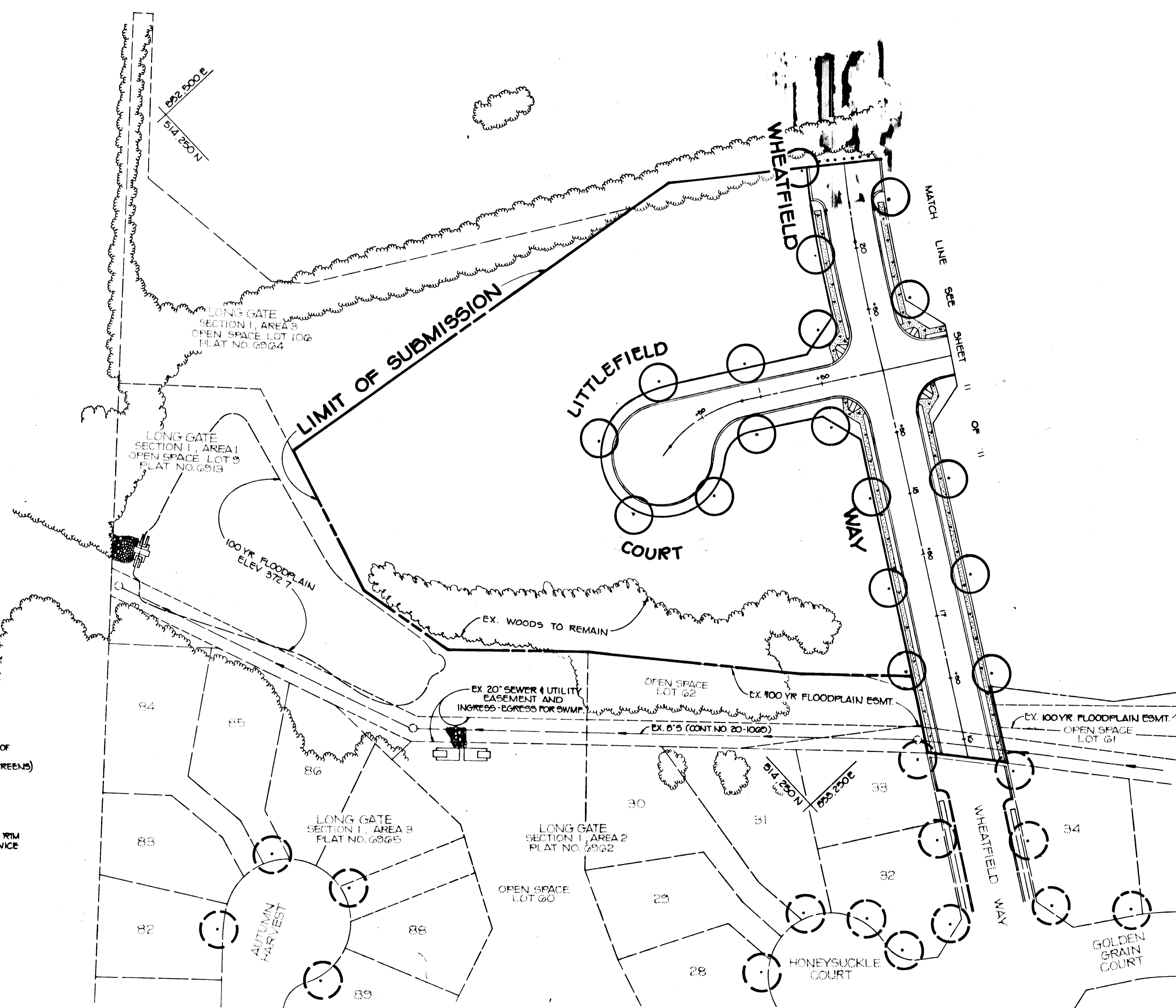
OWNER	SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	PROJECT	LONG GATE SECTION 2 AREA 1 LOTS 102 THRU 242
DEVELOPER	SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	LOCATION	2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP NO 30 ZONING MAP NO 30 PARCEL #10
TITLE	SEDIMENT CONTROL NOTES AND DETAILS	DATE	ZB-210M 08-11 P 07-01
DES: RJW	DRN: JCA	SCALE	AS SHOWN
		DRAWING	3 OF 11

PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
○		ACER RUBRUM Red Maple	2 1/2 Min. Cal. B & B Full Head
		QUERCUS PALUSTRIS Pin Oak	
		ACER SACCHARUM Sugar Maple	
		QUERCUS BOREALIS Red Oak	
TOTAL	50		

EX. STREET TREE INSTALLED  
UNIFER F 86-95 AND F 86-120

LENGTH OF PROPOSED ROADS 2023.91 + 40 = 5060  
LENGTH OF LINEAR PROFILE 296.61 + 80 = 371

TOTAL REQUIRED 54.31  
TOTAL PROVIDED 55



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*William S. Ray* 8-20-87  
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*John W. Muschman* 8-18-87  
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
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OWNER: SECURITY DEVELOPMENT CORP.  
P.O. BOX 417  
ELLCOTT CITY, MARYLAND 21043

PROJECT: **LONG GATE**  
SECTION 2, AREA 1  
LOTS 102 THRU 242

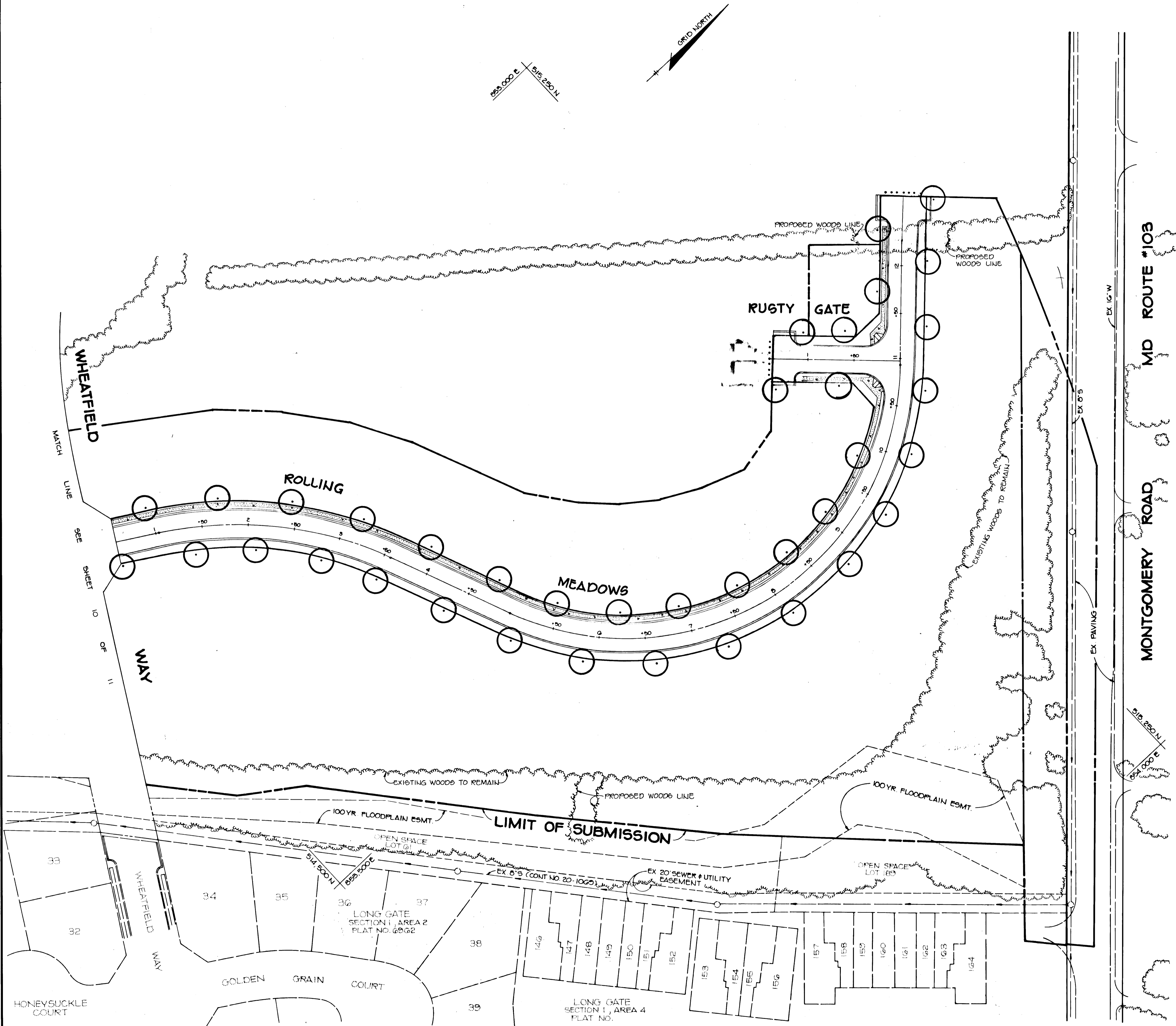
DEVELOPER: SECURITY DEVELOPMENT CORP.  
P.O. BOX 417  
ELLCOTT CITY, MARYLAND 21043

TITLE: **STREET TREE PLAN**

DATE: MARCH 3, 1987 PROJECT NO: 8650 RDD  
SCALE: 1" = 50' DRAWING 10 OF 11

1162

F-87-175



NOTE:  
FOR PLANT LIST SEE SHEET 10 OF 11

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*J. C. ...* 8-20-87  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
*John U. ...* 8-18-87  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

NO	DATE	REVISION

**TRACY, SCHULTE & ASSOCIATES INC.**  
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 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

*Tracy Schulte*

OWNER SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	PROJECT <b>LONG GATE</b> SECTION 2, AREA 1 LOTS 152 THRU 242
DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043	LOCATION 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND TAX MAP NOS. 304 & 31 ZONING MAP NOS. 80 & 31 PARCEL 18
DES. RJW/CDT	TITLE <b>STREET TREE PLAN</b> ZS-813M 5-07-11 P87-41 DATE MARCH 5, 1987 PROJECT NO 8050 RSD SCALE 1" = 50' DRAWING 11 OF 11

1162

F-87-185