

SHEET INDEX

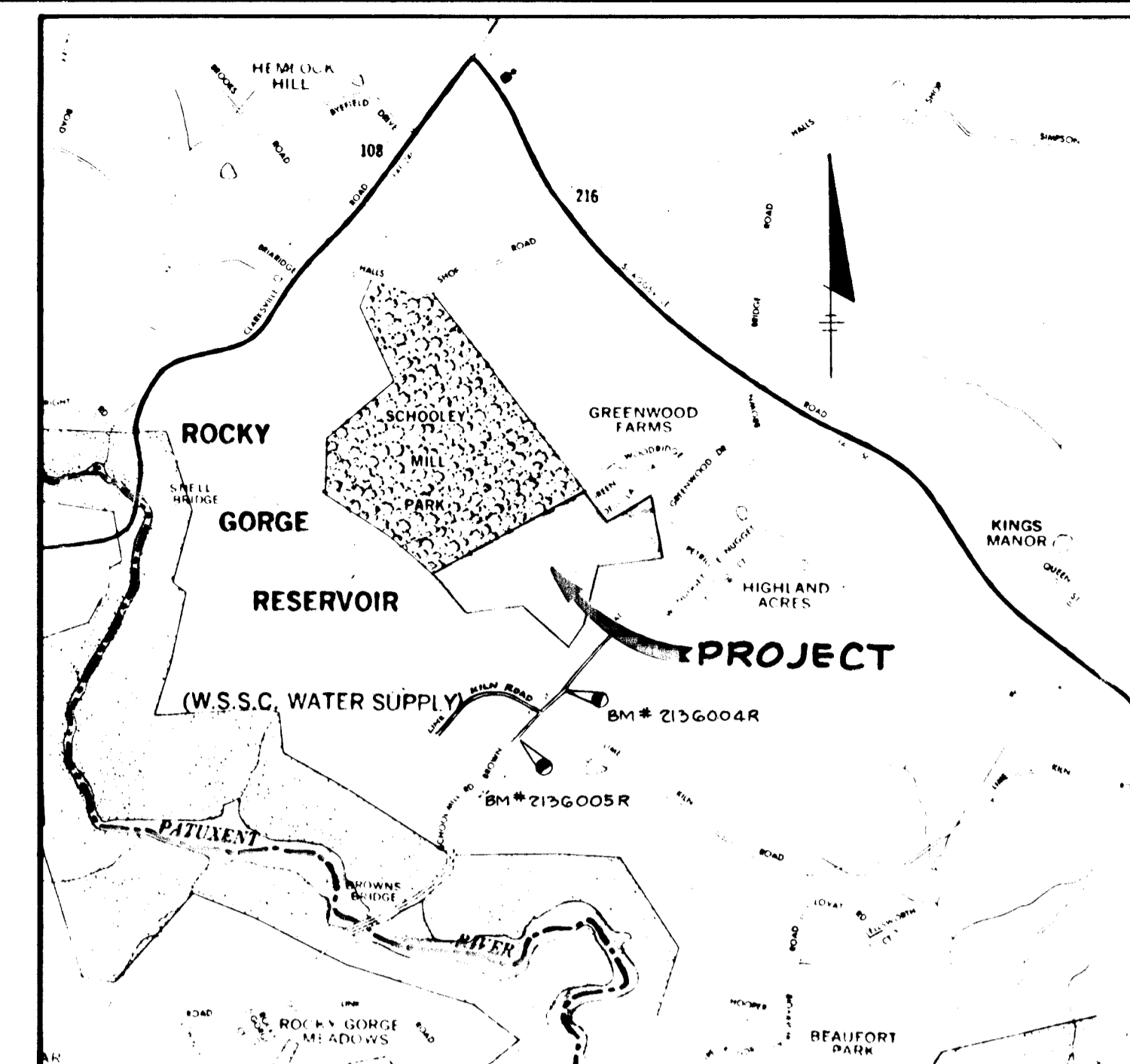
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND DETAILS OF GREEN DELL LANE
3	PROFILE OF GREEN DELL LANE
4	DRAINAGE AREA MAP AND STORM DRAIN PROFILE
5	GRADING AND SEDIMENT CONTROL PLAN
6	SEDIMENT CONTROL NOTES AND DETAILS

ROADWAY & STORM DRAIN LIME KILN VALLEY SECTION 2, AREA 1 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

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.

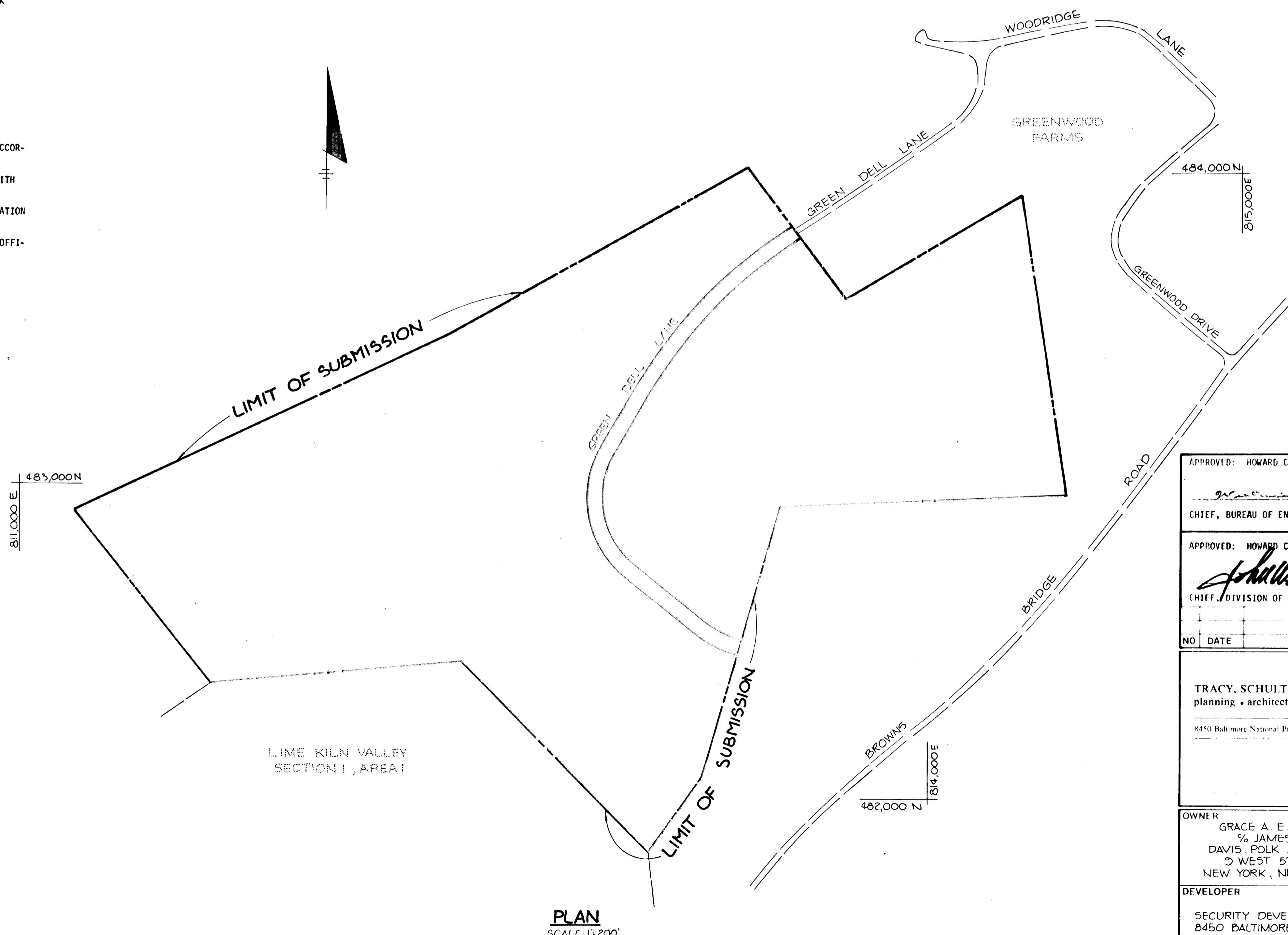
BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS AND ELECTRIC	539-8000 EXT. 691
HOWARD COUNTY BUREAU OF UTILITIES	992-2366
HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION	992-2417/2418
5. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
6. ALL STREET CURB RETURNS SHALL HAVE 20.0' RADIUS 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 1976 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 LOCAL STREETS DESIGNED FOR 30 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 PER 8-2-85 COMPREHENSIVE ZONING PLAN.



VICINITY MAP
SCALE 1"=2000'

BM#2136004-R ELEV. 374.62
CONCRETE MONUMENT FLUSH
16' OFF E. ROAD

BM#2136005-R ELEV. 335.95
REBAR 05' BELOW SURFACE, 120' ±
WEST OF DRIVEWAY TO MR. D. LEISHEAR.



LIME KILN VALLEY
SECTION 2, AREA 1

PLAN
SCALE 1"=200'

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i>	12-31-85 DATE
CHIEF, BUREAU OF ENGINEERING	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	12-31-85 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	
NO.	REVISION
TRACY, SCHULTE & ASSOCIATES INC. planning • architecture • engineering 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105	
OWNER	PROJECT
GRACE A. E. EISENHARDT % JAMES DOLAN DAVIS, POLK AND WARDWELL 9 WEST 57TH STREET NEW YORK, NEW YORK 10019	LIME KILN VALLEY SECTION 2 AREA 1 LOTS 15 THRU 32
DEVELOPER	LOCATION
SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043	HOWARD COUNTY, MARYLAND 5TH ELECTION DISTRICT TAX MAP 40 PARCEL 11G
TITLE	TITLE SHEET
DATE JULY, 1985	PROJECT NO 2684 RSD
DES. R.J.W.	DRN. L.R.C.
SCALE 1"=100'	DRAWING 1 OF 6

**€ CURVE DATA
GREEN DELL LANE
€ STA. 16+54.58 TO € STA. 17+97.04**

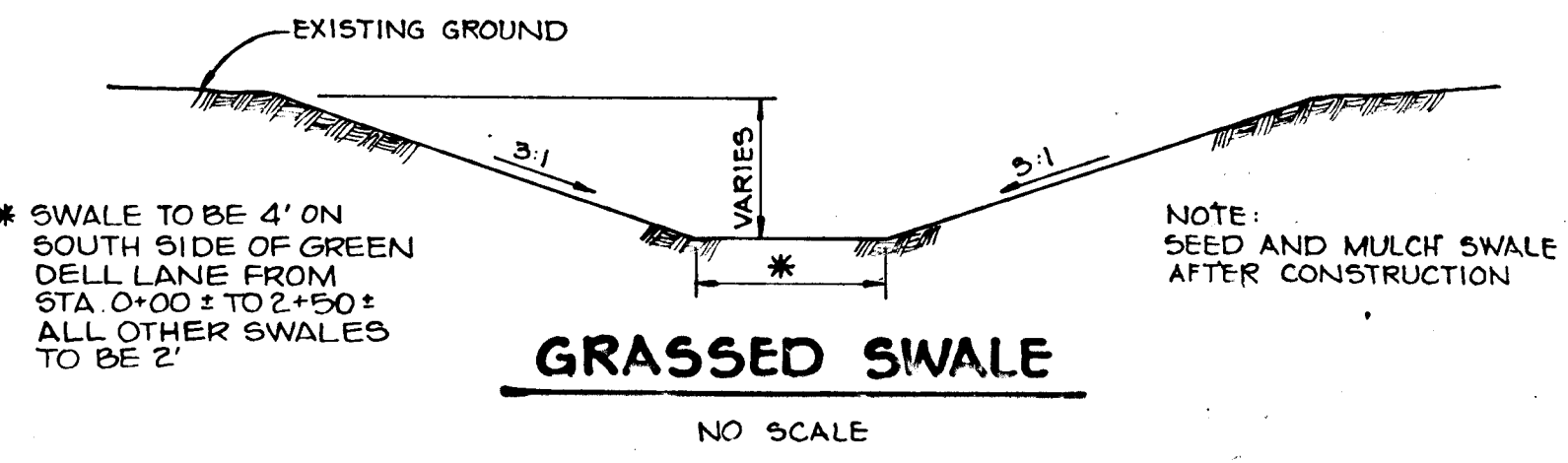
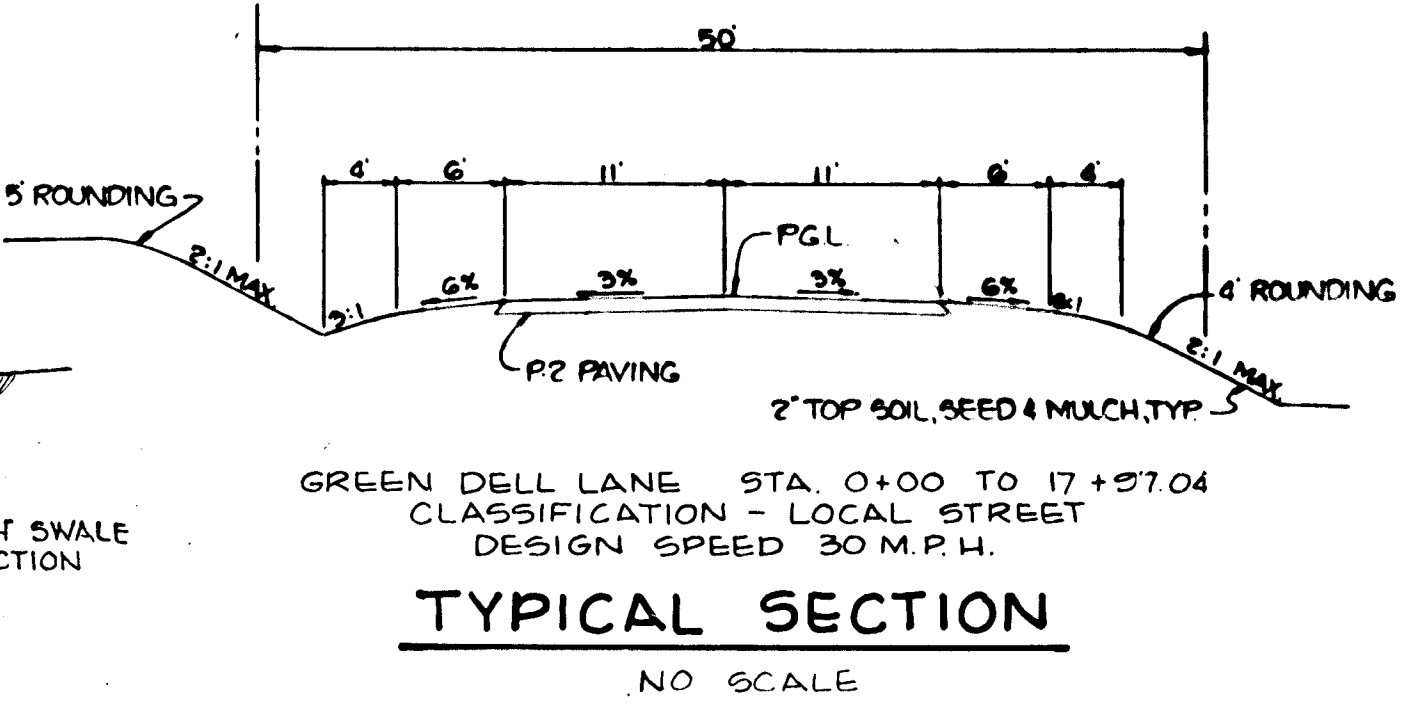
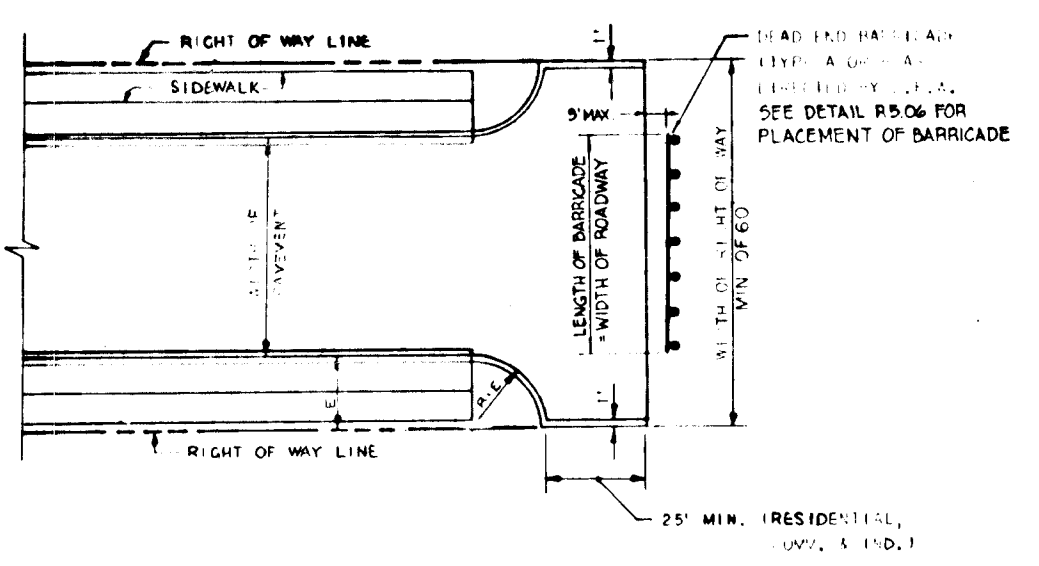
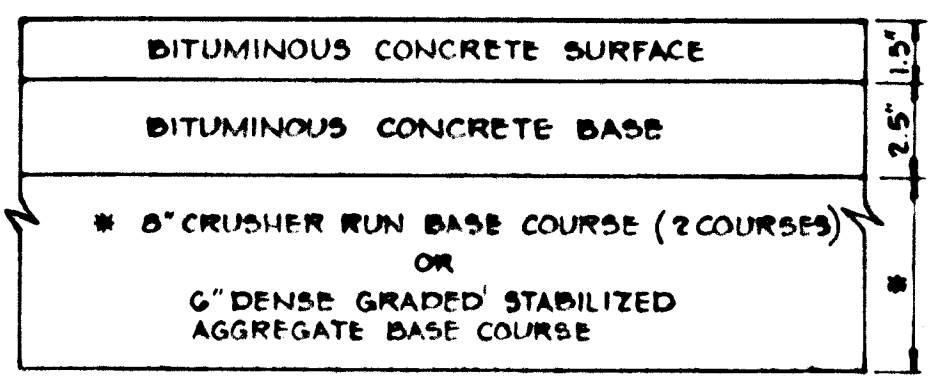
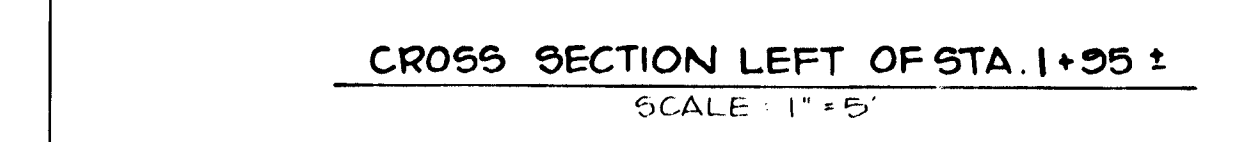
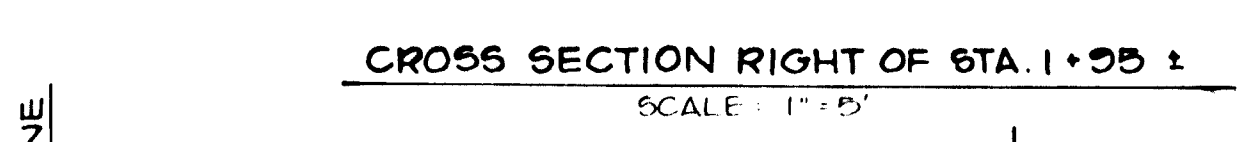
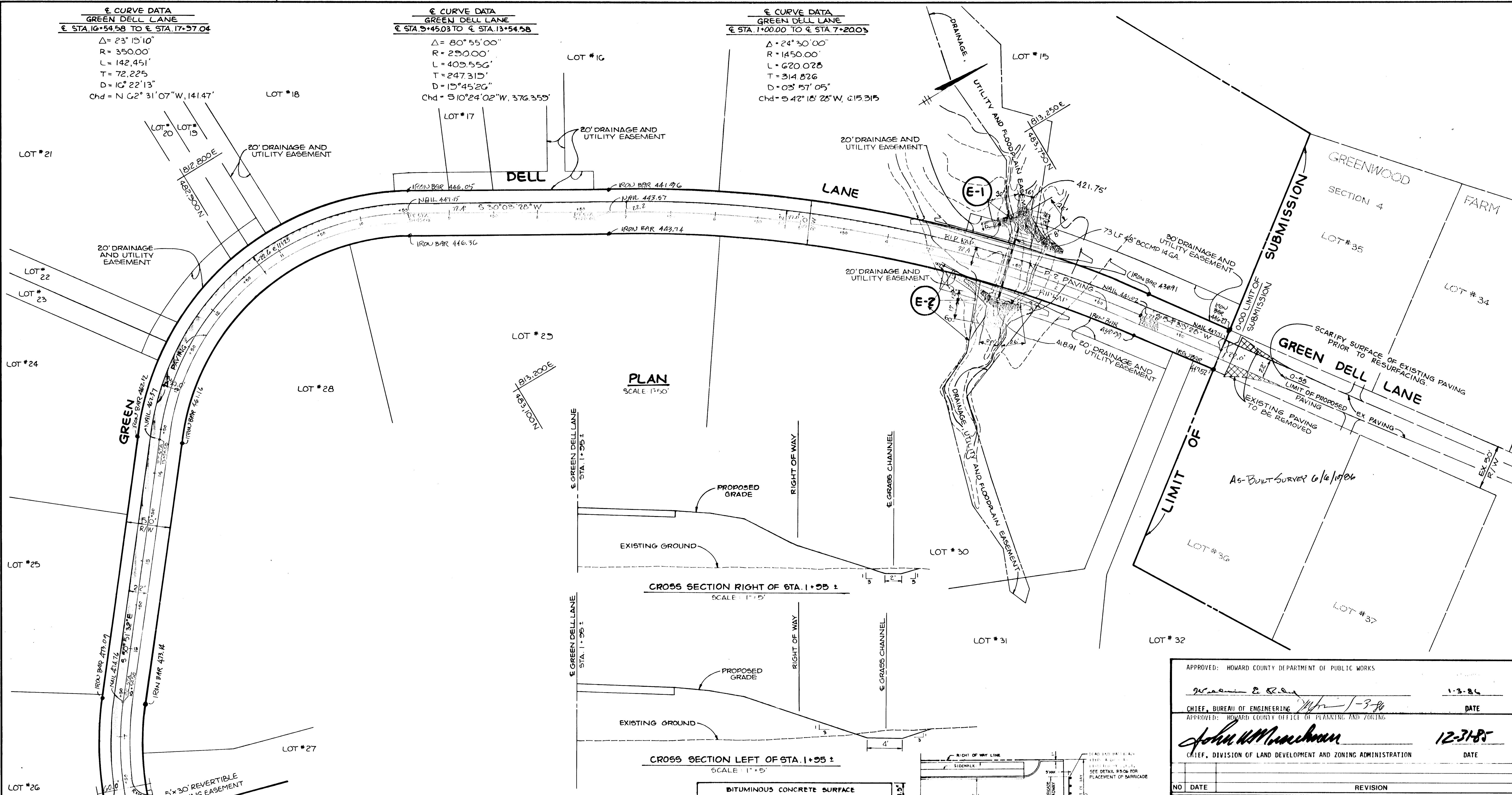
Δ = 23° 15' 10"
R = 350.00'
L = 142.451'
T = 72.225'
D = 10° 22' 13"
Chd = N 62° 31' 07" W, 141.47'

**€ CURVE DATA
GREEN DELL LANE
€ STA. 9+45.03 TO € STA. 13+54.58**

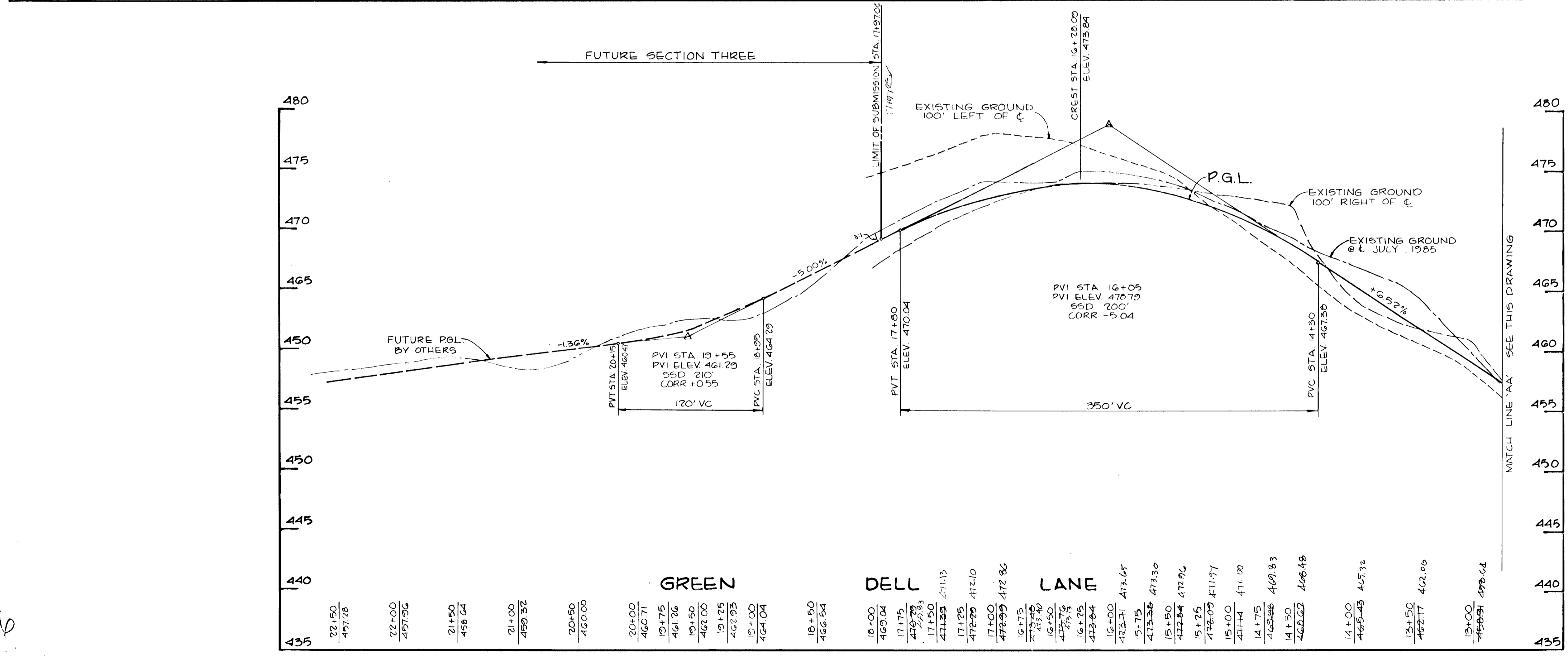
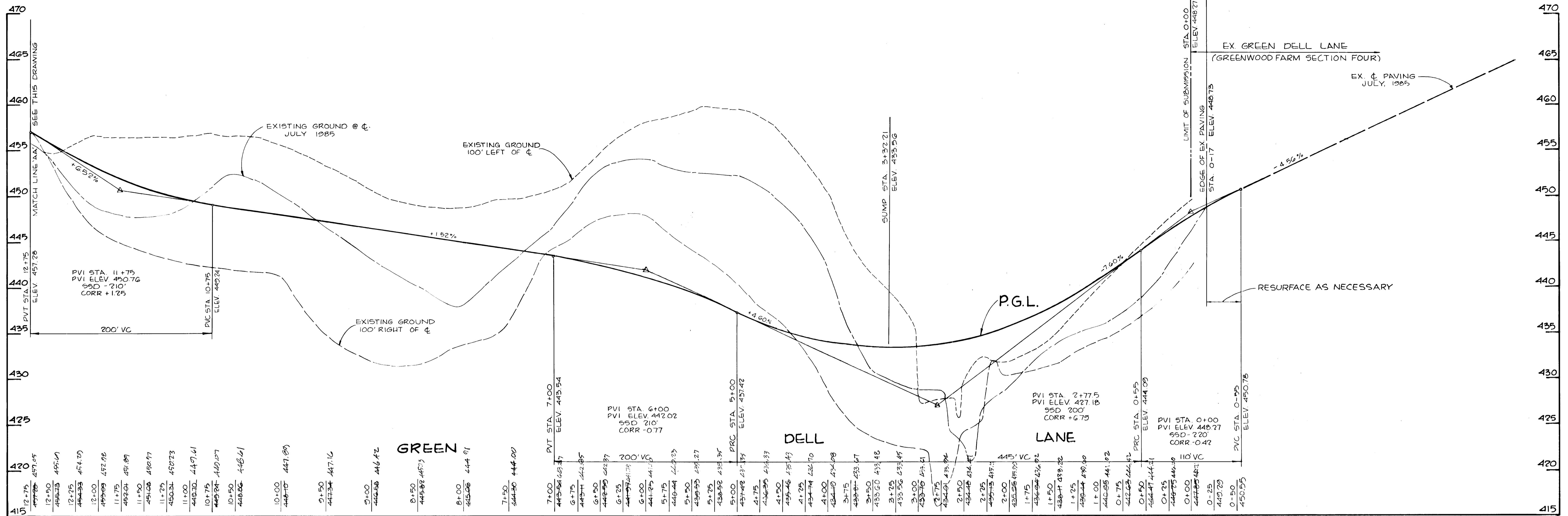
Δ = 80° 55' 00"
R = 290.00'
L = 409.556'
T = 247.315'
D = 15° 45' 20"
Chd = S 10° 24' 02" W, 376.355'

**€ CURVE DATA
GREEN DELL LANE
€ STA. 1+00.00 TO € STA. 7+20.03**

Δ = 24° 30' 00"
R = 1450.00'
L = 620.028'
T = 314.826'
D = 03° 57' 05"
Chd = S 42° 18' 28" W, 615.315'



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>William E. Ryan</i>	1-3-86
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>John W. Marchman</i>	12-31-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	DATE
NO	DATE
REVISION	
TRACY, SCHULTE & ASSOCIATES INC. planning • architecture • engineering 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105	
OWNER	PROJECT
GRACE A.E. EISENHARDT 40 JAMES DOLAN DAVIS, POLK AND WARDWELL 9 WEST 57TH STREET NEW YORK, NEW YORK 10019	LIME KILN VALLEY SECTION 2, AREA 1 LOTS 15 THRU 32
DEVELOPER	LOCATION
SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043	HOWARD COUNTY, MARYLAND 5TH ELECTION DISTRICT TAX MAP 40 PARCEL 11G
TITLE	
PLAN AND DETAILS OF GREEN DELL LANE	
DATE JULY 15, 1985	PROJECT NO 2G84 RSD
DES. R.J.W.	DRN. L.R.C.
SCALE AS SHOWN	DRAWING 2 OF 6



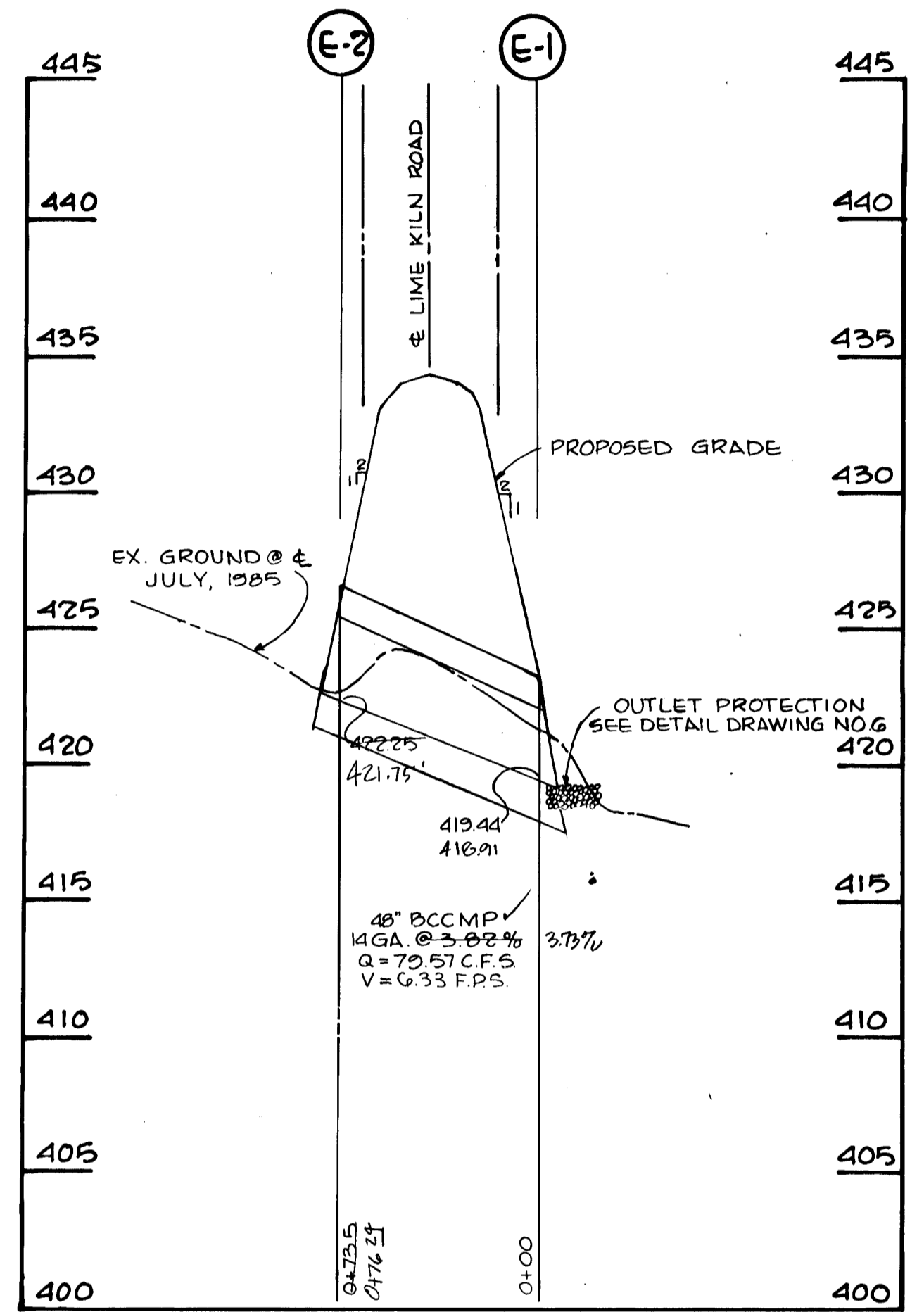
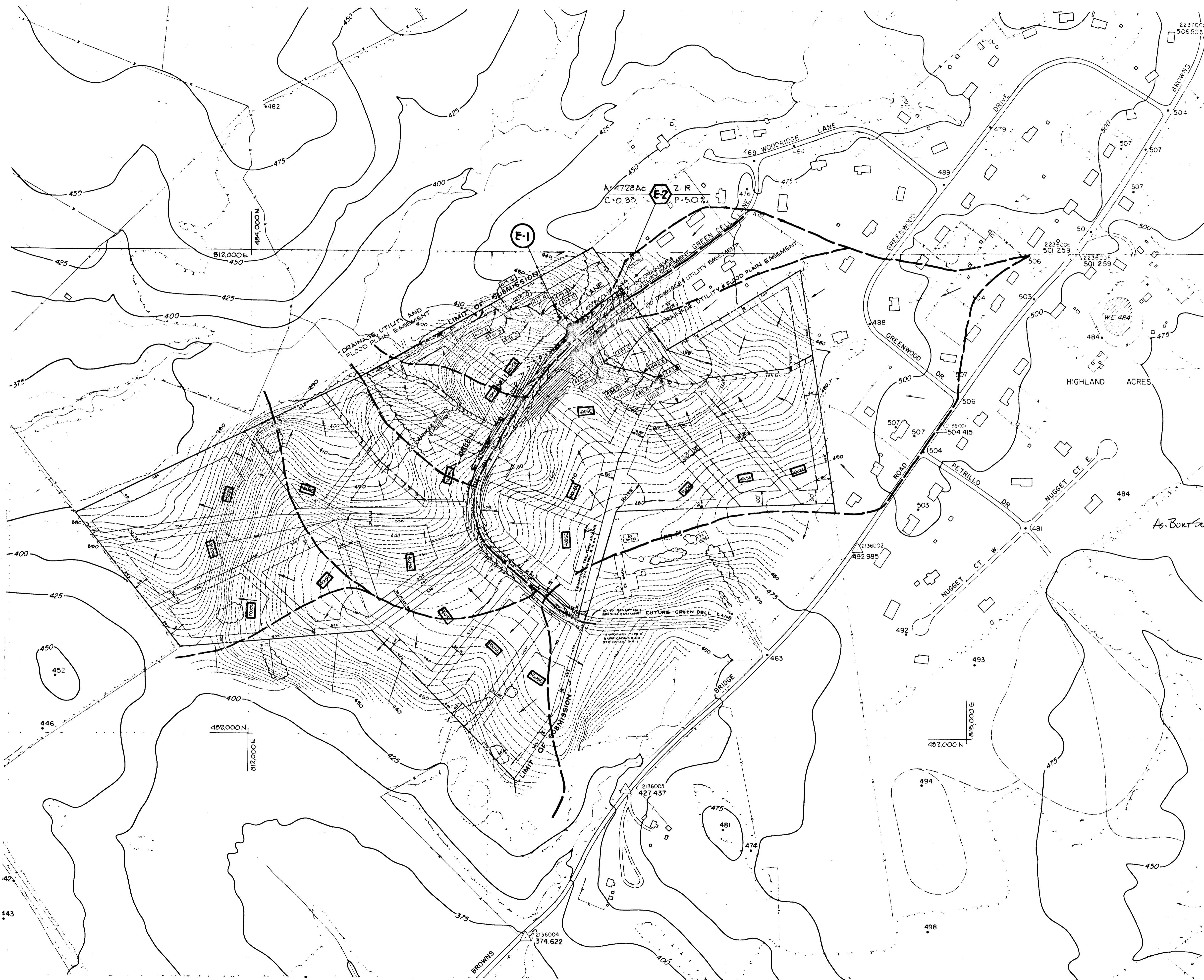
AS-BUILT SURVEY 6/6/1986

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CHIEF, BUREAU OF ENGINEERING APPROVED: <i>John M. Munchman</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION		1-3-86 DATE 12-31-85 DATE
NO	DATE	REVISION
TRACY, SCHULTE & ASSOCIATES INC. planning • architecture • engineering 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6108		
OWNER: GRACE A E EISENHARDT % JAMES DOLAN DAVIS, POLK AND WARDWELL 9 WEST 57TH STREET NEW YORK, NEW YORK 10019		PROJECT: LIME KILN VALLEY SECTION 2 AREA 1 LOTS 19 THRU 34 LOCATION: HOWARD COUNTY, MARYLAND 5TH ELECTION DISTRICT TAX MAP 40 PARCEL 11G
DEVELOPER: SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043		TITLE: PROFILE OF GREEN DELL LANE DATE JULY 1985 PROJECT NO 2684 RSD SCALE 4"=150' V:1=5' DRAWING 3 OF 6
DES SJB	DRN K.M.N.	F-86-48 DECEMBER 20, 1985

#1066

STORM DRAIN STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV IN	INV OUT	TOP ELEV	DESCRIPTION
E-1	48" METAL END SECTION	3391 RT OF E STA 2+60.23 GREEN DELL LANE	—	418.91 418.44	—	H.C. STD S.D. 5.61
E-2	48" METAL END SECTION	356 3533 LT. OF E STA 2+66.16 GREEN DELL LANE	417.75 422.25	—	—	H.C. STD S.D. 5.61

ALL STORM DRAIN PIPE TO HAVE CLASS 'C' BEDDING



PROFILE

SCALE: H: 1"=50'
V: 1"=5'

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
John W. Wauson 12-31-85
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James E. ... 1-3-86
 CHIEF, BUREAU OF ENGINEERING DATE

NO.	DATE	REVISION

TRACY, SCHULTE & ASSOCIATES INC.
 planning • architecture • engineering
 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 468-6105

OWNER: GRACE A. EISENHARDT
 % JAMES DOLAN
 DAVIS, POLK AND WARDWELL
 2 WEST 57TH STREET
 NEW YORK, NEW YORK 10019

DEVELOPER: SECURITY DEVELOPMENT CORP
 8450 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MD. 21043

PROJECT: LIME KILN VALLEY
 SECTION 2 AREA 1
 LOTS 15 THRU 32

LOCATION: HOWARD COUNTY, MARYLAND
 5TH ELECTION DISTRICT
 TAX MAP 40 PARCEL 11G

TITLE: STORM DRAIN PROFILE OVERALL
 SITE GRADING PLAN AND
 DRAINAGE AREA MAP

DATE: JULY, 1985 PROJECT NO: 2084 R3D

DES: R.J.W. DRN: R.J.W. SCALE: AS SHOWN DRAWING: 4 OF 6

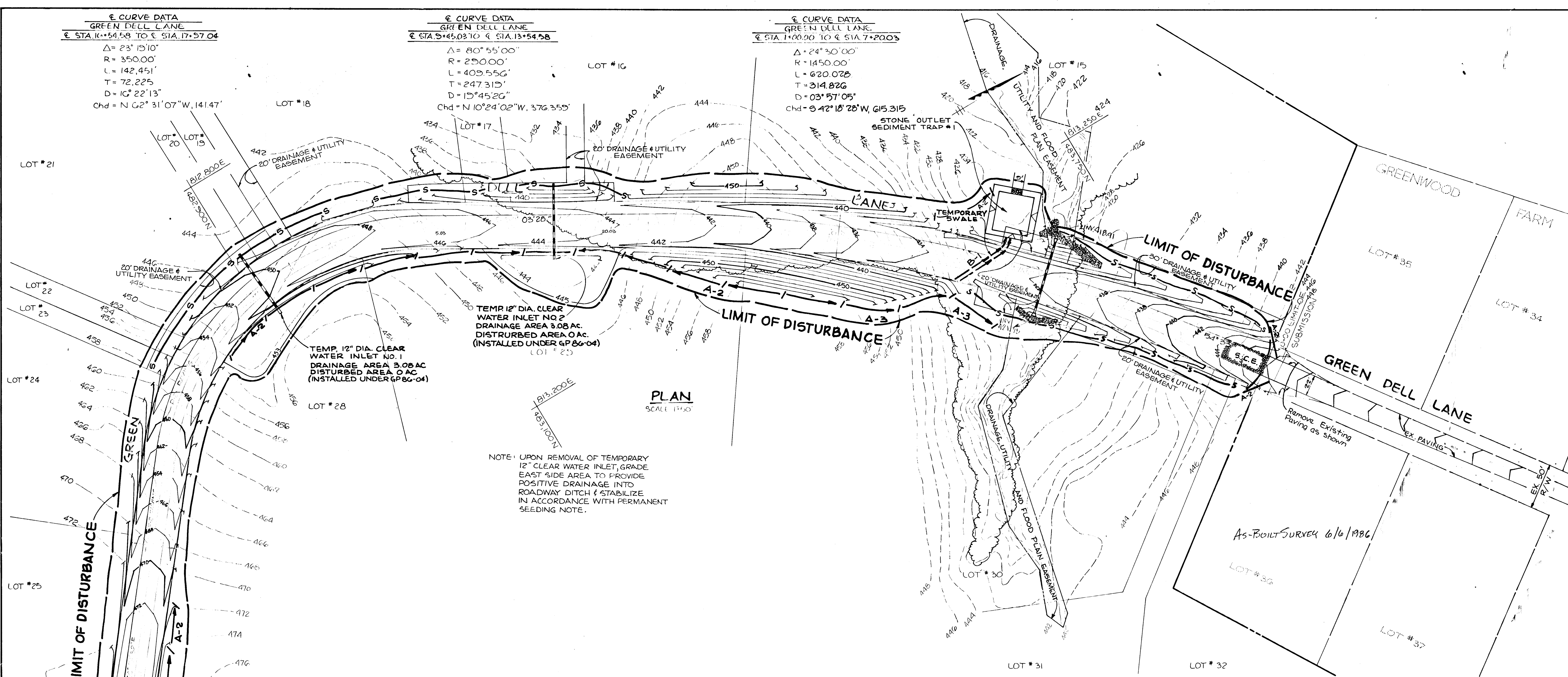
GRADING PLAN AND DRAINAGE AREA MAP
 SCALE: 1"=200'

#1066

ε CURVE DATA
GREEN DELL LANE
 ε STA. 16+54.58 TO ε STA. 17+97.04
 Δ = 23° 19' 10"
 R = 350.00'
 L = 142.451'
 T = 72.225'
 D = 10° 22' 13"
 Chd = N 62° 31' 07" W, 141.47'

ε CURVE DATA
GREEN DELL LANE
 ε STA. 5+45.08 TO ε STA. 13+54.58
 Δ = 80° 55' 00"
 R = 250.00'
 L = 409.556'
 T = 247.313'
 D = 15° 45' 26"
 Chd = N 10° 24' 02" W, 376.359'

ε CURVE DATA
GREEN DELL LANE
 ε STA. 1+00.00 TO ε STA. 7+200.5
 Δ = 24° 30' 00"
 R = 1450.00'
 L = 620.028'
 T = 314.826'
 D = 03° 57' 05"
 Chd = S 42° 18' 28" W, 615.315'



TEMP 12" DIA. CLEAR WATER INLET NO 2
 DRAINAGE AREA 3.08 AC.
 DISTURBED AREA 0 AC
 (INSTALLED UNDER GP 86-04)
 LOT # 25

TEMP 12" DIA. CLEAR WATER INLET NO 1
 DRAINAGE AREA 3.08 AC
 DISTURBED AREA 0 AC
 (INSTALLED UNDER GP 86-04)
 LOT # 28

NOTE: UPON REMOVAL OF TEMPORARY 12" CLEAR WATER INLET, GRADE EAST SIDE AREA TO PROVIDE POSITIVE DRAINAGE INTO ROADWAY DITCH & STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTE.

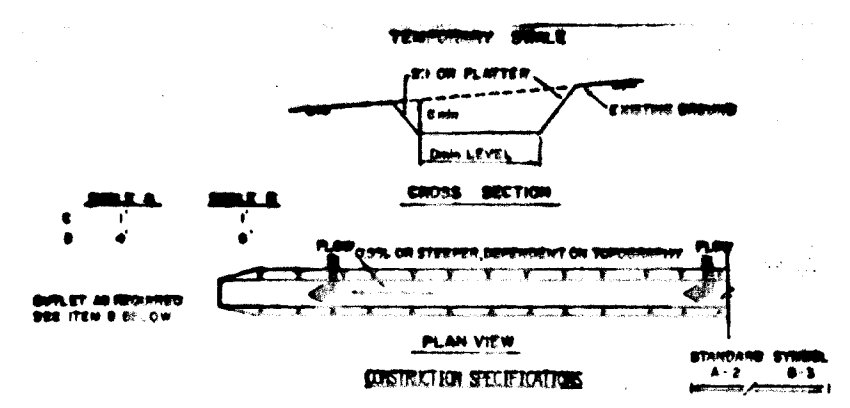
PLAN
 SCALE 1"=50'

(INSTALLED UNDER GP 86-04)
SEDIMENT TRAP NO. 1

DRAINAGE AREA	2.24 AC
DISTURBED AREA	2.24 AC
STORAGE VOLUME	
REQUIRED	40.37 CF
PROVIDED	40.50 CF
CREST ELEVATION	425.0
BOTTOM ELEVATION	423.0
CLEANOUT ELEVATION	424.0
TRAP DIMENSIONS	45' x 45' x 2'

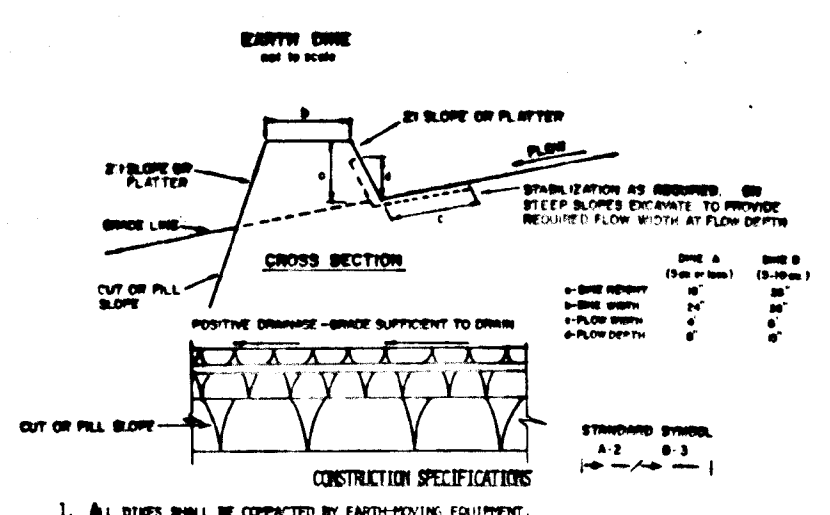
BY THE DEVELOPER: "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT." <i>James R. Moxley Jr.</i> DEVELOPER: JAMES R. MOXLEY, JR. 11-1-85 DATE		APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>[Signature]</i> 1-3-86 DATE CHIEF, BUREAU OF ENGINEERING APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>John M. Meehan</i> 12-31-85 DATE CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION	
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." <i>James K. Tracy</i> JAMES K. TRACY, P.E. 9566 11-1-85 DATE		TRACY, SCHULTE & ASSOCIATES INC. planning • architecture • engineering 8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105 	
REVIEWED FOR: <u>HOWARD</u> S.C.D. NAME AND MEETS TECHNICAL REQUIREMENTS <i>James M. Helm</i> 12-30-85 DATE U.S. SOIL CONSERVATION SERVICE THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT <i>Stephen R. Fisher</i> 12-31-85 DATE HOWARD S.C.D.		OWNER: GRACE A. E. EISENHARDT % JAMES DOLAN DAVIS, POLK AND WARDWELL 9 WEST 57TH STREET NEW YORK, NEW YORK 10019 DEVELOPER: SECURITY DEVELOPMENT CORP 8450 BALTIMORE NATIONAL PIKE ELICOTT CITY, MD 21043 PROJECT: LIME KILN VALLEY SECTION 2, AREA 1 LOTS 15 THRU 32 LOCATION: HOWARD COUNTY, MARYLAND 5TH ELECTION DISTRICT TAX MAP 40 PARCEL 11G TITLE: GRADING AND SEDIMENT CONTROL PLAN DATE: JULY 1985 PROJECT NO: 2084 RSD DES: R.J.W. DRN: L.R.C. SCALE: 1"=50' DRAWING: 5 OF 6	

#1066



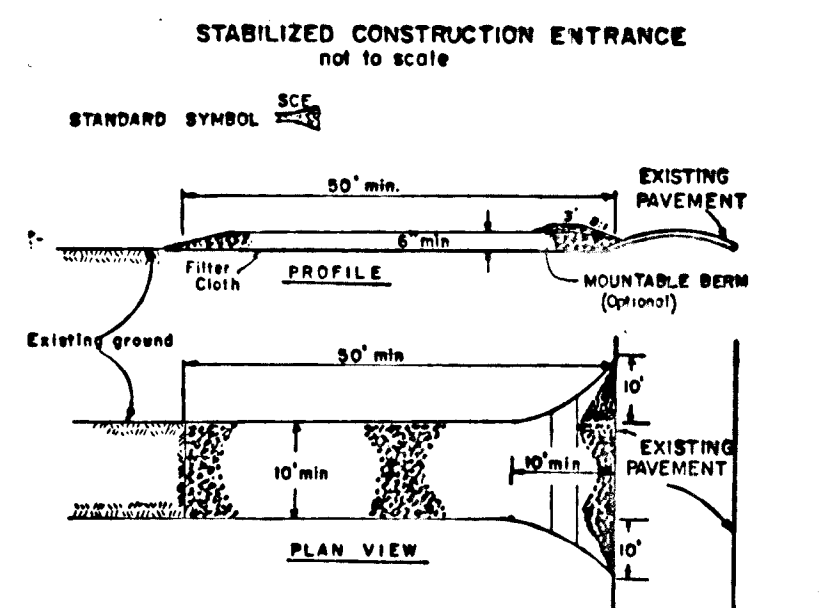
1. ALL TEMPORARY SWALES SHALL HAVE UNDISTURBED POSITIVE DRAINAGE TO AN OUTLET.
2. DISTURBED GRASSY FROM A DISTURBED AREA SHALL BE COVERED TO A SEDIMENT TRAPPING DEVICE.
3. DISTURBED GRASSY FROM A DISTURBED AREA SHALL OUTFLOW DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TRENCHES, DITCHES, EXCAVATIONS, AND OTHER UNDISTURBED AREAS SHALL BE REPAIRED AND RESTORED TO ORIGINAL OR BETTER CONDITION WITHIN THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE ENCLOSED OR COVERED TO LINE, GRADE, AND CROSS SECTION AS NECESSARY TO MEET THE DESIGN SPECIFICATIONS AND TO PREVENT PROBLEMS OF SOIL EROSION, WEAR, AND SEDIMENTATION.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL SWALE REPAIRS AND NEW SWALES ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

TEMPORARY SWALE
NO SCALE



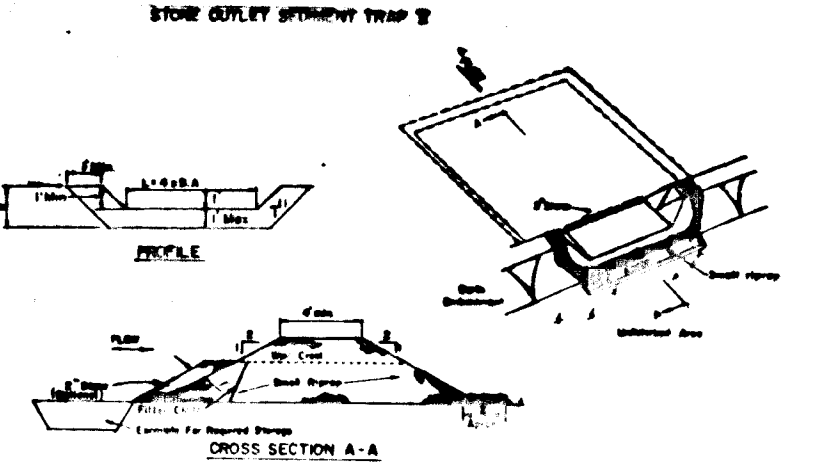
1. ALL DIKES SHALL BE CONSTRUCTED BY EARTH MOVING EQUIPMENT.
2. DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. DIKES SHALL NOT BE LESS THAN 12" HIGH AND 12" WIDE AT THE TOP TO FACILITATE WALKING BY CONSTRUCTION TRAFFIC.
4. DIKES SHALL BE CONSTRUCTED TO PREVENT PROBLEMS OF SOIL EROSION, WEAR, AND SEDIMENTATION.
5. THE DIKE SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. TRAFFIC SHALL BE LIMITED TO A SPECIFIC TRAFFIC DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WITHIN THE DITCH CHANNEL OR THE DRAINAGE AREA ADJACENT TO THE DIKE AND NOT ADJACENT TO THE DIKE.
6. STABILIZATION SHALL BE AS PER THE CHART BELOW:

EARTH DIKE
NO SCALE



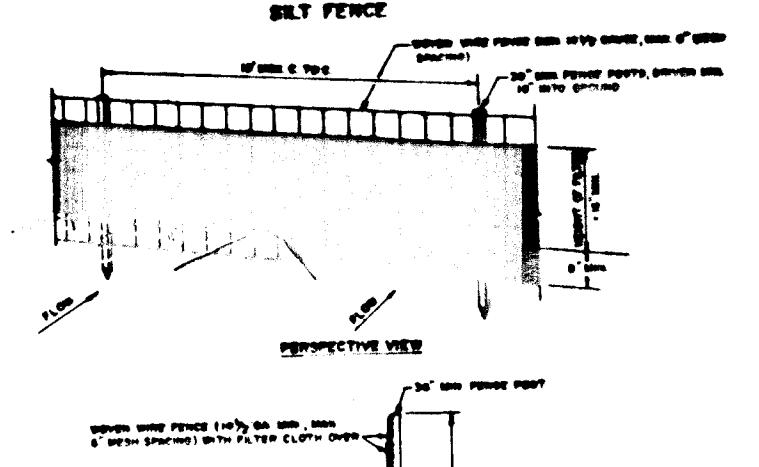
1. Stone Size - Use 3" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 30 feet (except on a single vehicle lane where a 20 foot minimum length would apply).
3. Thickness - Not less than 18 inches.
4. Width - 12" foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth - Will be placed over the entire area prior to placing of stone. A mountable barrier with 1/2" apertures will be provided.
6. Surface Material - All surface water flowing or directed toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable barrier with 1/2" apertures will be provided.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or blowing of sediment onto public rights-of-way. This requires periodic top dressing with additional stone as conditions demand and regular cleaning of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way shall be removed immediately.
8. Sealing - Seals shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each use.

STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



1. A one foot layer of 1/2" stone may be placed on the upstream side of the trap to give the sediment filter cloth.
2. Stone under sediment shall be cleaned, graded or replaced if any separation and loss occurs. The sand area shall be cleaned.
3. The fill material for the sediment shall be free of trees and other debris, vegetation as well as construction debris, rocks, rebar, metal or other debris. The sediment shall be compacted by tamping with equipment while it is being constructed.
4. All cut and fill slopes shall be 1:1 or flatter.
5. The stone used in the outlet shall be small (1/2" to 1") (thickness at 12" depth) and be 1/2" to 1" in diameter. The sediment filter cloth shall be placed in the trap.
6. Sediment shall be removed and transported to the original destination when the sediment has accumulated to the design depth of the trap.
7. The structure shall be inspected after each rain and repairs made as needed.
8. Construction operation shall be carried out in such a manner that sediment and water pollution is minimized.
9. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

STONE OUTLET SEDIMENT TRAP
NO SCALE



1. Posts shall be placed 10' to 12' apart.
2. Filter cloth shall be fastened securely to posts with 1/2" galvanized wire.
3. Posts shall be placed 10' to 12' apart.
4. Posts shall be placed 10' to 12' apart.
5. Posts shall be placed 10' to 12' apart.
6. Posts shall be placed 10' to 12' apart.

SILT FENCE
NO SCALE

- SEDIMENT CONTROL NOTES**
- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
 - 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
 - 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (Sec. 51) SOD (Sec. 54), TEMPORARY SEEDING (Sec. 50) AND MULCHING (Sec. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 - 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - 7) SITE ANALYSIS:
TOTAL AREA OF SITE: 73.622 ACRES
AREA DISTURBED: 3.51 ACRES
AREA TO BE ROOFED OR PAVED: 0.51 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 3.00 ACRES
TOTAL CUT: 19,961 CU. YDS.
TOTAL FILL: 7,125 CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION: N/A
 - 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
 - 10) ALL SEDIMENT TRAPS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

PERMANENT SEEDING NOTES

SEEDBED 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 lbs/1000 sq ft) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 lbs/1000 sq ft) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 lbs/1000 sq ft).
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 lbs/1000 sq ft) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 lbs/1000 sq 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 60 LBS PER ACRE (1.4 lbs/1000 sq ft) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 lbs/1000 sq ft) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 lbs/1000 sq ft) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 gal/1000 sq ft) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 gal/1000 sq 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.

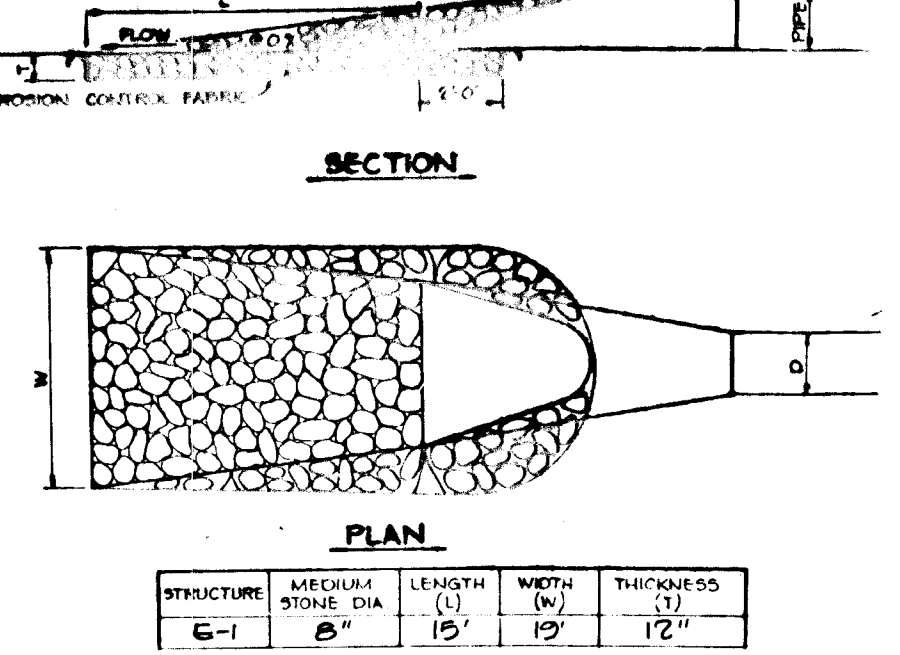
SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 lbs/1000 sq ft)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 25 BUSHEL PER ACRE OF ANNUAL RYE (3.2 lbs/1000 sq ft). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 lbs/1000 sq ft). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 lbs/1000 sq ft) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 gal/1000 sq ft) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 gal/1000 sq ft) FOR ANCHORING.

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



OUTLET PROTECTION DETAIL
NO SCALE

SEQUENCE OF CONSTRUCTION	
DAY 1	OBTAIN GRADING PERMIT
DAY 2 - DAY 3	CLEAR AND GRUB AREA FOR AND INSTALL SCE
DAY 3 - DAY 8	CLEAR AND GRUB REMAINING AREAS FOR SEDIMENT CONTROL DEVICE INSTALLATION
DAY 9 - DAY 13	INSTALL SEDIMENT TRAP AND TEMPORARY CLEAR WATER INLETS AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES
DAY 14 - DAY 20	INSTALL REMAINDER OF SEDIMENT CONTROL DEVICES AND SEED IN ACCORDANCE WITH TEMPORARY SEEDING NOTES
DAY 21 - DAY 24	CLEAR AND GRUB REMAINDER OF SITE
DAY 25 - DAY 33	GRADE SITE WITHIN LIMITS OF SUBMISSION I.E.: EXCLUDING THAT AREA IN THE EXISTING GREEN DELL LANE RIGHT OF WAY
DAY 33 - DAY 36	INSTALL STORM DRAIN
DAY 36 - DAY 38	STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDING NOTES
DAY 39 - DAY 52	COMPLETE ROADWAY CONSTRUCTION WITHIN THE LIMIT OF SUBMISSION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE
DAY 53 - DAY 54	COMPLETE ROADWAY CONSTRUCTION OUTSIDE THE LIMIT OF SUBMISSION I.E.: THE AREA WITHIN THE EXISTING RIGHT OF WAY OF GREEN DELL LANE AND SOD ALL DISTURBED AREAS IMMEDIATELY
DAY 54 - DAY 58	UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR REMOVE ALL SEDIMENT CONTROL DEVICES AND SEED DISTURBED AREA IN ACCORDANCE WITH PERMANENT SEEDING NOTES

NOTE: UPON REMOVAL OF CLEAR WATER INLET NO. 2, FILL INLET AREA TO INSURE POSITIVE DRAINAGE TO NEW DITCH AND SEED IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

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."
James R. Moxley Jr. 11-1-85
DEVELOPER: JAMES R. MOXLEY, JR. DATE

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, P.E. 11-1-85
JAMES K. TRACY, P.E. 9566 DATE

REVIEWED FOR HOWARD S.C.D.
AND MEETS TECHNICAL REQUIREMENTS
James M. Hill 12/30/85
U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
Stephen L. Huber 12/30/85
HOWARD S.C.D. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William A. Kiser 1-3-86
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
William A. Kiser 12-31-85
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

NO	DATE	REVISION

TRACY, SCHULTE & ASSOCIATES INC.
planning • architecture • engineering
8450 Baltimore National Pike • Suite 34 • Ellicott City, Maryland 21043 • (301) 465-6105
James K. Tracy

OWNER GRACE A.E. EISENHARDT 90 JAMES DOLAN DAVIS, POLK AND WARDWELL 9 WEST 57TH STREET NEW YORK, NEW YORK 10019	PROJECT LIME KILN VALLEY SECTION 2, AREA 1 LOCATION HOWARD COUNTY, MD 5TH ELECTION DISTRICT TAX MAP 40 PARCEL 116
DEVELOPER SECURITY DEVELOPMENT CORP. 8450 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21043	TITLE SEDIMENT CONTROL NOTES AND DETAILS DATE JULY 1985 PROJECT NO 2684 RSD
DES: R.J.W. DRN: K.M.N.	SCALE: AS SHOWN DRAWING 6 OF 6