

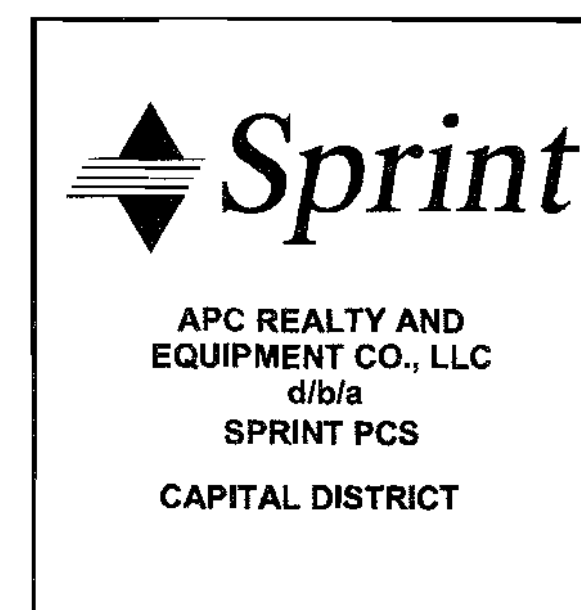
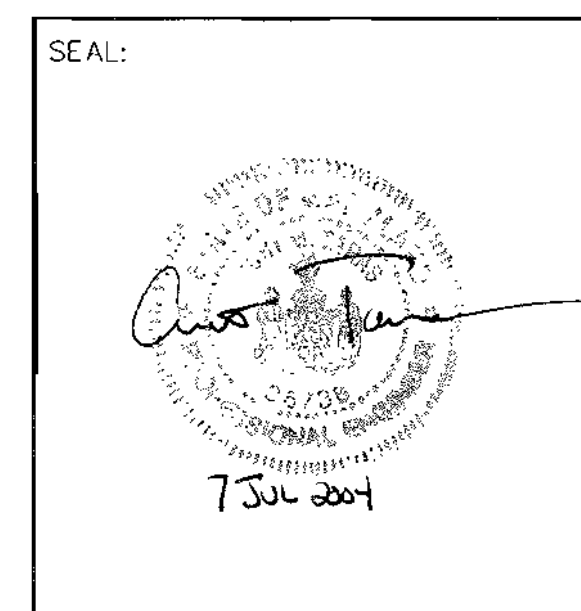
**SPRINT PCS  
CAPITAL DISTRICT**

**SITE NAME: ROY A. ZIMMERMAN  
SITE NUMBER: WA54XC473C  
8282 MURPHY ROAD  
FULTON, MD 20759**



1575 Eye Street, N.W. Suite 350  
WASHINGTON, D.C. 20005  
PHONE: (202)408-0960  
FAX: (202)408-0961

REVISION BLOCK		
DATE	DESCRIPTION	REV.
10-29-03	CONSTRUCTION REVIEW	
12-02-03	CONSTRUCTION	
12-17-03	SITE DEVELOPMENT PLAN	
03-17-04	COUNTY COMMENTS	
05-11-04	COUNTY COMMENTS	2
05-26-04	COUNTY COMMENTS	
6-16-04	SDP SIGNATURE SET	
7-1-04	MYLAR EDITS	



- HOWARD COUNTY GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
  - THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK.
  - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
  - TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
  - ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
  - THE EXISTING TOPOGRAPHY IS TAKEN FROM (FIELD RUN) SURVEY WITH (MAXIMUM ONE FOOT) CONTOUR INTERVALS PREPARED BY ENTREX COMMUNICATION SERVICES.
  - THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UP ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. THE HOWARD COUNTY CONTROLS USED ARE GSC 46EA AND GSC 46EB.
  - WATER SERVICE IS NOT REQUIRED FOR THIS PROJECT.
  - SEWER SERVICE IS NOT REQUIRED FOR THIS PROJECT.
  - THIS PROJECT DISTURB 33,340 S.F.
  - EXISTING UTILITIES ARE BASED ON FIELD OBSERVATION.
  - THERE IS NO FLOODPLAIN ON THIS SITE.
  - THE SITE IS LOCATED IN FLOOD ZONE 'C'.
  - NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
  - PROJECT BACKGROUND INFORMATION (UNLESS INCLUDED IN TITLE BLOCK): SUBDIVISION NAME: N/A, TAX MAP: 46, SECTION/AREA: B, LOT/PARCEL: 111, ZONING: RR-DEO, ZB/BA REFERENCE: N/A, ELECTION DISTRICT: N/A, SITE AREA: 97.68 AC.
  - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. PERIMETER LANDSCAPING SHALL BE PROVIDED FOR THE PROPOSED COMPOUND WITH PLANTINGS OF 6 SHADE TREES AND 12 EVERGREENS. SURETY IN THE AMOUNT OF \$3,600.00 SHALL BE POSTED WITH THE GRADING PERMIT IF A GRADING IS REQUIRED (OR WITH THE DEVELOPERS AGREEMENT, WHICHEVER IS APPLICABLE).
  - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.120C OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL. THE FOREST CONSERVATION OBLIGATION HAS BEEN FULFILLED BY THE PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$2,831.40 FOR 0.13 ACRES OF AFFORESTATION.
  - THE SDP PLAN CONFORMS TO THE AMENDED 5TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. (COUNCIL BILL NO. 45-2003)
  - EACH 5TH YEAR AFTER A FACILITY BECOMES OPERATIONAL, THE FACILITY OPERATOR SHALL CONDUCT A SAFETY INSPECTION IN ACCORDANCE WITH THE ELECTRONICS INDUSTRIES ASSOCIATION STANDARD REFERENCE NUMBER 222E AS REFERENCED IN THE HOWARD COUNTY BUILDING CODE, AND RADIATION LEVEL INSPECTION OF THE FACILITY AND WITHIN 60-DAYS OF THE INSPECTION, FILE A REPORT WITH THE DIRECTOR OF INSPECTIONS, LICENSES AND PERMITS AND THE HEALTH OFFICER.
  - BA 01-26C DECISION AND ORDER GRANTING CUP ISSUED JUNE 18, 2002; APPEALED TO HOWARD COUNTY CIRCUIT COURT; FINAL DECISION AFFIRMING CUP ISSUED BY COURT JULY 24, 2003 (CASE NO. 03-C-02-50670). COURT DECISION SUBMITTED WITH PLANS AS SEPERATE DOCUMENTS.

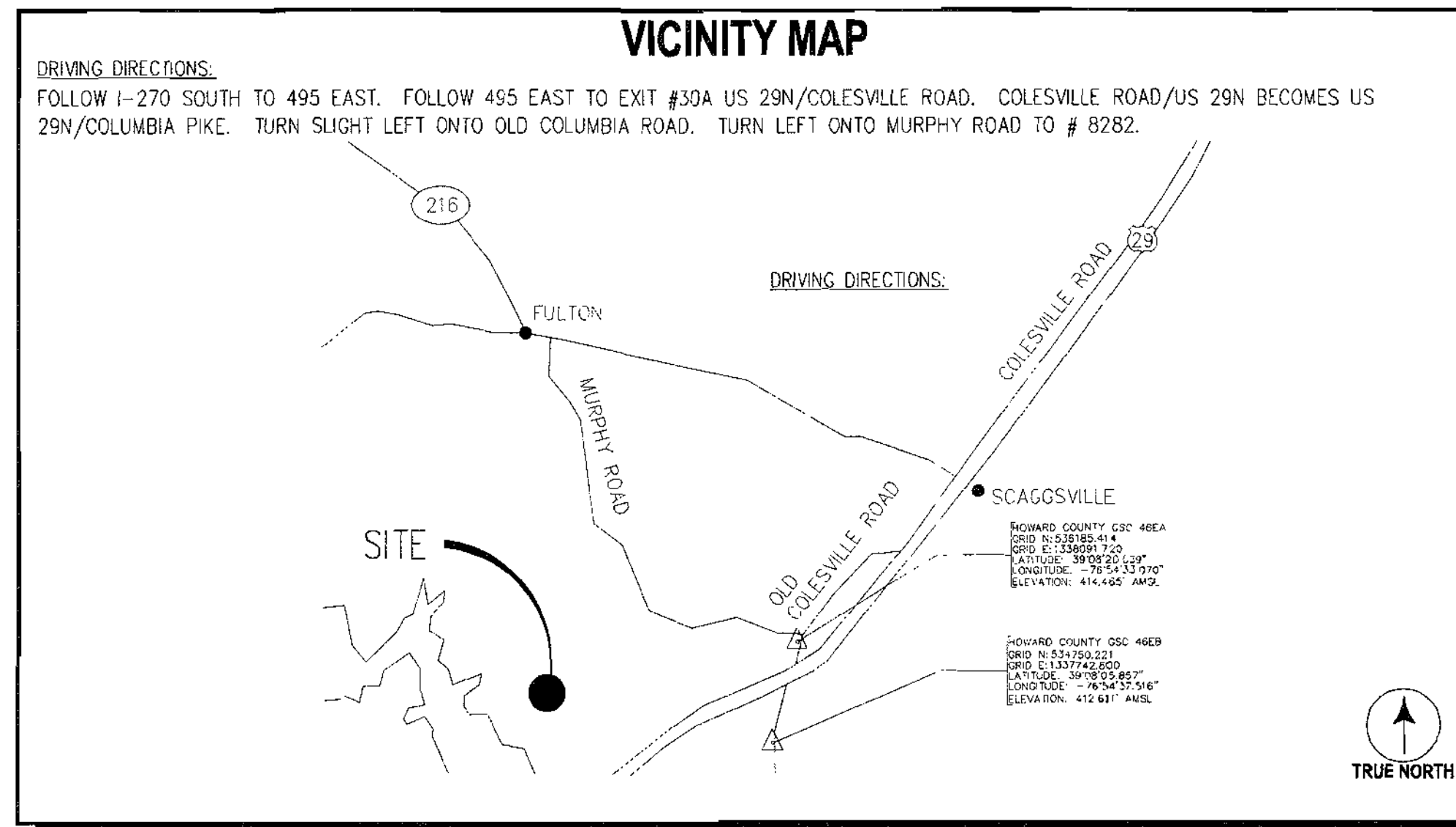
**APPROVALS**

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 7/22/04  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 7/21/04  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 7/22/04  
DIRECTOR DATE



**SITE ANALYSIS DATA CHART**

A. TOTAL PROJECT AREA: 97.68 ACRES/ 4,254,940 SQUARE FEET.
B. AREA OF PLAN SUBMISSION: 0.85 ACRES/ 37,173 SQUARE FEET.
C. LIMIT OF DISTURBED AREA = 33,340 S.F.
D. PRESENT ZONING DESIGNATION: RR-DEO - AGRICULTURAL
E. PROPOSED USES FOR SITE AND STRUCTURES: CIA (COMMERCIAL) 150 FT TELECOMMUNICATION MONOPOLE, EQUIPMENT CABINETS, 6 FT HIGH CHAIN LINK FENCE AND COMPOUND AREA. EXISTING USE: AGRICULTURE
F. FLOOR SPACE ON EACH LEVEL OF BUILDING(S) PER USE (RETAIL, OFFICE, WAREHOUSE, ETC.): N/A
G. TOTAL NUMBER OF UNITS ALLOWED FOR PROJECT AS SHOWN ON FINAL PLAT (RESIDENTIAL ONLY): N/A
H. TOTAL NUMBER OF UNITS PROPOSED ON SUBMISSION (RESIDENTIAL ONLY): N/A
I. MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON SITE PER USE = 1 FOR EXISTING VACANT USE
J. NUMBER OF PARKING SPACES REQUIRED BY HOWARD COUNTY ZONING REGULATIONS AND/OR FDP CRITERIA FOR EXISTING VACANT COMMERCIAL BUILDING = 1
K. NUMBER OF PARKING SPACES PROVIDED ON SITE (INCLUDE NUMBER OF HANDICAPPED PARKING SPACES) = 1
L. OPEN SPACE ON SITE: 97.2 ACRES, 99.5% OF GROSS AREA.
M. AREA OF RECREATION OPEN SPACE REQUIRED BY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS ACRES REQUIRED: 0 ACRES PROVIDED: 0 (RESIDENTIAL ONLY).
N. BUILDING COVERAGE OF SITE: 0.5 ACRES, 0.5% OF GROSS AREA.
O. APPLICABLE DPZ FILE REFERENCES: THERE ARE NO KNOWN RECORDED SUBMITTALS, WAIVERS, APPROVED OR DENIED (DPW AND DPZ) CONCERNING THIS TRACT.
P. ANY OTHER INFORMATION WHICH MAY BE RELEVANT. N/A

RR-DEO = RURAL RESIDENTIAL DENSITY EXCHANGE OPTION

**SHEET INDEX**

T-1	TITLE SHEET
C-1	PROPERTY MAP AND ADJOINERS
C-2	SITE SURVEY
C-3	ENLARGED SITE PLAN
C-4	GRADING PLAN ENTRANCE VICINITY
C-5	GRADING PLAN COMPOUND VICINITY
C-6	CIVIL MAPS
C-7	CIVIL NOTES
C-8	CIVIL DETAILS
C-9	CIVIL DETAILS
TCP-1	FOREST CONSERVATION PLAN
LS-1	LANDSCAPING PLAN
A-1	COMPOUND LAYOUT AND MONOPOLE ELEVATION

**PROJECT DESCRIPTION**

SCOPE OF WORK:	INSTALLATION OF NEW MONOPOLE FOUNDATION, MONOPOLE, PCS COMMUNICATION EQUIPMENT, SITE IMPROVEMENTS, ELECTRICAL AND TELEPHONE SERVICE.	APPLICANT:	APC REALTY AND EQUIPMENT COMPANY, LLC, d/b/a SPRINT PCS ONE INTERNATIONAL BLVD. STE. 800 MAHWAH, N.J. 07495
OWNER:	ROY A. ZIMMERMAN 8282 MURPHY ROAD FULTON, MD 20759	LATITUDE:	N 39° 08' 12.502"
		LONGITUDE:	W 76° 55' 18.221"
		GROUND ELEVATION:	383.5' AMSL
		JURISDICTION:	HOWARD COUNTY
		PROPERTY INFO:	TAX MAP: 46 GRID: 8 PARCEL: 111
		DEED REFERENCE:	LIBER: 1154 FOLIO: 130
		CURRENT ZONING:	RR-DEO
		USE:	AGRICULTURAL/ CIA (COMMERCIAL)

SITE # BA-01-26C  
SITE DEVELOPMENT PLAN # SDP-04-088

**ADDRESS CHART**

LOT/PARCEL #	STREET ADDRESS
111	8282 MURPHY ROAD FULTON, MD 20759

**PERMIT INFORMATION CHART**

SUBDIVISION NAME:	N/A	SECTION/AREA:		LOT/PARCEL NO.:	111
PLAT # OR L/F:	1144 / 130	GRID #:	8	ZONING:	RR-DEO
		TAX MAP NO.:	46	ELEC. DISTR.:	5
WATER CODE:		SEWER CODE:		CENSUS TRACT:	605102

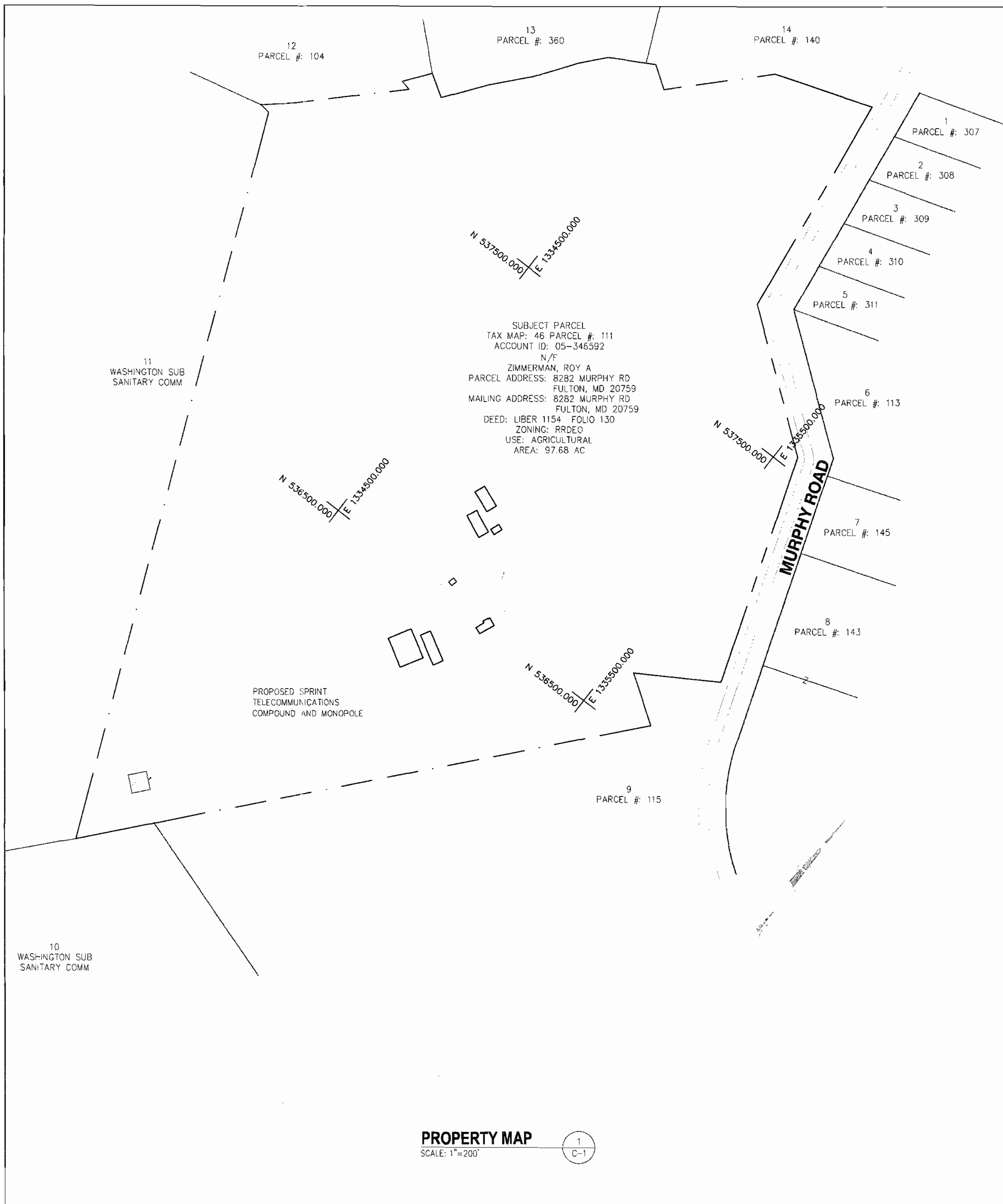
PROJECT NO: 1015.188  
DESIGNER: B.M.  
ENGINEER: M.M.

SCALE:  
0 1/2 1  
GRAPHIC SCALE IN INCHES

**ROY A. ZIMMERMAN  
WA54XC473C  
8282 MURPHY ROAD  
FULTON, MD 20759**

TITLE:  
**TITLE SHEET**

1 OF 13  
SHEET NUMBER:  
**T-1**  
**SDP-04-088**

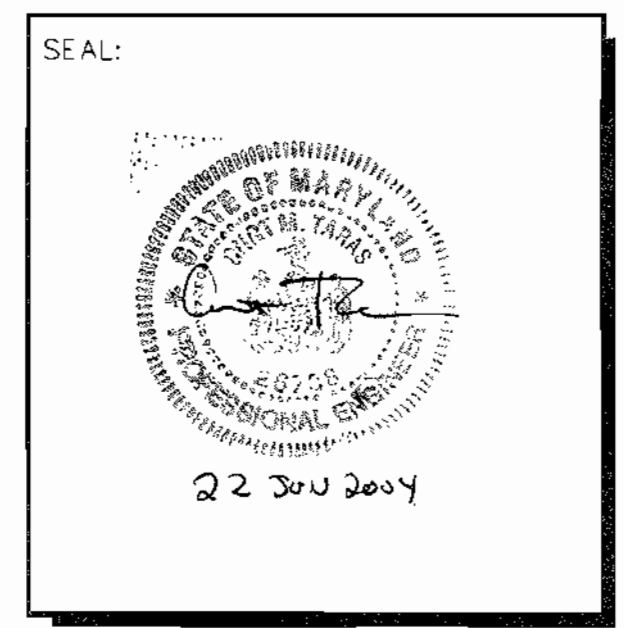


**PROPERTY MAP**  
SCALE: 1"=200'

<p>SUBJECT PARCEL TAX MAP: 46 PARCEL #: 111 ACCOUNT ID: 05-346592 N/F ZIMMERMAN, ROY A PARCEL ADDRESS: 8282 MURPHY RD FULTON, MD 20759 MAILING ADDRESS: 8282 MURPHY RD FULTON, MD 20759 DEED: LIBER 1154 FOLIO 130 ZONING: RRDEO USE: AGRICULTURAL AREA: 97.68 AC</p>	<p>5 TAX MAP: 46 PARCEL #: 311 ACCOUNT ID: 05-375622 N/F KOEHLE, VINCENT D &amp; WF PARCEL ADDRESS: 8187 MURPHY RD FULTON, MD 20759 MAILING ADDRESS: 8187 MURPHY RD FULTON, MD 20759 DEED: LIBER 773 FOLIO 208 ZONING: RRDEO USE: RESIDENTIAL AREA: 0.92 AC</p>	<p>10 TAX MAP: N/A PARCEL #: N/A ACCOUNT ID: 05-N/A N/F WASHINGTON SUB. SANITARY COMMISSION PARCEL ADDRESS: N/A FULTON, MD 20759 MAILING ADDRESS: N/A N/A DEED: LIBER 221 FOLIO 465 ZONING: N/A USE: N/A AREA: 27.47 AC</p>
<p>1 TAX MAP: 46 PARCEL #: 307 ACCOUNT ID: 05-375592 N/F DUNCAN, ANGELA E L &amp; CUENCA, CARLOS PARCEL ADDRESS: 8147 MURPHY RD FULTON, MD 20759 MAILING ADDRESS: 8147 MURPHY RD FULTON, MD 20759 DEED: LIBER 3870 FOLIO 117 ZONING: RRDEO USE: RESIDENTIAL AREA: 1.03 AC</p>	<p>6 TAX MAP: 46 PARCEL #: 113 ACCOUNT ID: 05-358906 N/F MAPLE LAWN FARMS INC PARCEL ADDRESS: 8281 MURPHY RD FULTON, MD 20759 MAILING ADDRESS: P.O. BOX 562 FULTON, MD 20759 DEED: LIBER 683 FOLIO 747 ZONING: RRDEO USE: AGRICULTURAL AREA: 97.93 AC</p>	<p>11 TAX MAP: 46 PARCEL #: N/A ACCOUNT ID: 05-N/A N/F WASHINGTON SUB. SANITARY COMMISSION PARCEL ADDRESS: N/A FULTON, MD 20759 MAILING ADDRESS: N/A N/A DEED: LIBER 250 FOLIO 124 ZONING: N/A USE: N/A AREA: 71.85 AC</p>
<p>2 TAX MAP: 46 PARCEL #: 308 ACCOUNT ID: 05-375630 N/F CASE, CHARLES F &amp; BEVERLY A PARCEL ADDRESS: 8157 S MURPHY RD FULTON, MD 20759 MAILING ADDRESS: 8157 S MURPHY RD FULTON, MD 20759 DEED: LIBER 1946 FOLIO 676 ZONING: RRDEO USE: RESIDENTIAL AREA: 1.03 AC</p>	<p>7 TAX MAP: 46 PARCEL #: 145 ACCOUNT ID: 05-357667 N/F LINCOLN, ROBERT A &amp; MARY O PARCEL ADDRESS: 8325 MURPHY RD FULTON, MD 20723 MAILING ADDRESS: 8325 MURPHY RD FULTON, MD 20723 DEED: LIBER 956 FOLIO 516 ZONING: RRDEO USE: RESIDENTIAL AREA: 5.38 AC</p>	<p>12 TAX MAP: 46 PARCEL #: 104 ACCOUNT ID: 05-363853 N/F PRINCE FLORENCE UDINE PARCEL ADDRESS: S ROUTE 216 FULTON, MD 20759 MAILING ADDRESS: 3327 VALLEY LEE S LAUREL, MD 20724 DEED: LIBER 2140 FOLIO 306 ZONING: RRDEO USE: AGRICULTURAL AREA: 27.62 AC</p>
<p>3 TAX MAP: 46 PARCEL #: 309 ACCOUNT ID: 05-375649 N/F STROTT, GEORGE L &amp; STEPHANIE C PARCEL ADDRESS: 8167 MURPHY RD FULTON, MD 20759 MAILING ADDRESS: 8167 MURPHY RD FULTON, MD 20759 DEED: LIBER 7159 FOLIO 98 ZONING: RRDEO USE: RESIDENTIAL AREA: 1.03 AC</p>	<p>8 TAX MAP: 46 PARCEL #: 143 ACCOUNT ID: 05-346584 N/F BENNETT, GEORGE K &amp; CATHERINE A PARCEL ADDRESS: 8365 MURPHY RD FULTON, MD 20723 MAILING ADDRESS: 8365 MURPHY RD FULTON, MD 20723 DEED: LIBER 6549 FOLIO 397 ZONING: RRDEO USE: RESIDENTIAL AREA: 15.00 AC</p>	<p>13 TAX MAP: 46 PARCEL #: 360 ACCOUNT ID: 05-430135 N/F HOWARD COUNTY MARYLAND PARCEL ADDRESS: SE HUNTFIELD DR FULTON, MD 20759 MAILING ADDRESS: 3430 COURT HOUSE DR ELLCOTT CITY, MD 21043 DEED: LIBER 5765 FOLIO 664 ZONING: RRDEO USE: PARK AREA: 9.66 AC</p>
<p>4 TAX MAP: 46 PARCEL #: 310 ACCOUNT ID: 05-375657 N/F PEREIRA, GREGORY J &amp; CHRISTINE PARCEL ADDRESS: 8177 MURPHY RD FULTON, MD 20759 MAILING ADDRESS: 8177 MURPHY RD FULTON, MD 20759 DEED: LIBER 6401 FOLIO 487 ZONING: RRDEO USE: RESIDENTIAL AREA: 1.01 AC</p>	<p>9 TAX MAP: 46 PARCEL #: 115 ACCOUNT ID: 05-365643 N/F SCAGGS BROTHERS EQUIPMENT CO PARCEL ADDRESS: MURPHY RD FULTON, MD 20759 MAILING ADDRESS: 3258 BETHANY LN ELLCOTT CITY, MD 21042 DEED: LIBER 1874 FOLIO 157 ZONING: RRDEO USE: AGRICULTURAL AREA: 43.40 AC</p>	<p>14 TAX MAP: 46 PARCEL #: 140 ACCOUNT ID: 05-348846 N/F DUKE, JAMES A &amp; WF PARCEL ADDRESS: 8210 MURPHY RD FULTON, MD 20759 MAILING ADDRESS: 8210 MURPHY RD FULTON, MD 20759 DEED: LIBER 582 FOLIO 189 ZONING: RRDEO USE: RESIDENTIAL AREA: 6.08 AC</p>

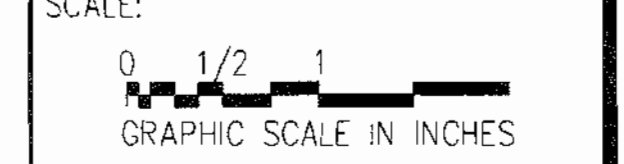
1575 Eye Street, N.W. Suite 350  
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6-16-04	SDP SIGNATURE SET	



APC REALTY AND EQUIPMENT CO., LLC  
d/b/a  
SPRINT PCS  
CAPITAL DISTRICT

PROJECT NO: 1015.188  
DESIGNER: R.S.  
ENGINEER: M.M.



**ROY A. ZIMMERMAN**  
**WA54XC473C**  
**8282 MURPHY ROAD**  
**FULTON, MD 20759**

TITLE:  
**PROPERTY MAP AND ADJOINERS**

**2 OF 13**

SHEET NUMBER:  
**C-1**

**SDP-04-088**

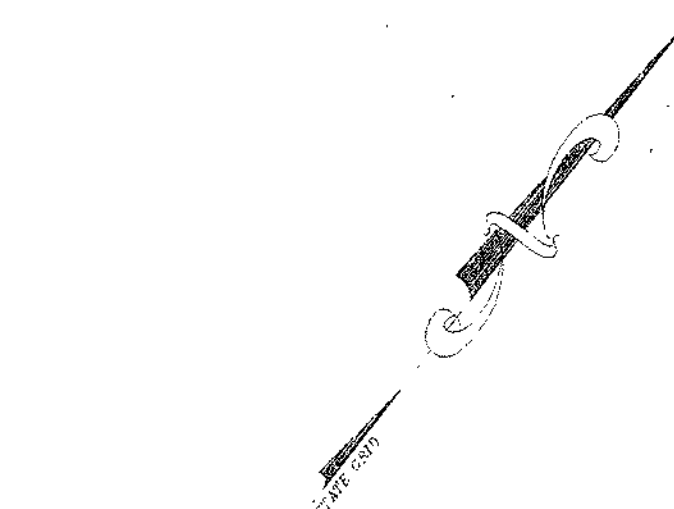
APPROVALS	
APPROVED: DEPARTMENT OF PLANNING AND ZONING	
<i>Chris Dammann</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	7/20/04 DATE
<i>Cindy Hawk</i> CHIEF, DIVISION OF LAND DEVELOPMENT	7/21/04 DATE
<i>Marsha DiLorenzo</i> DIRECTOR	7/22/04 DATE





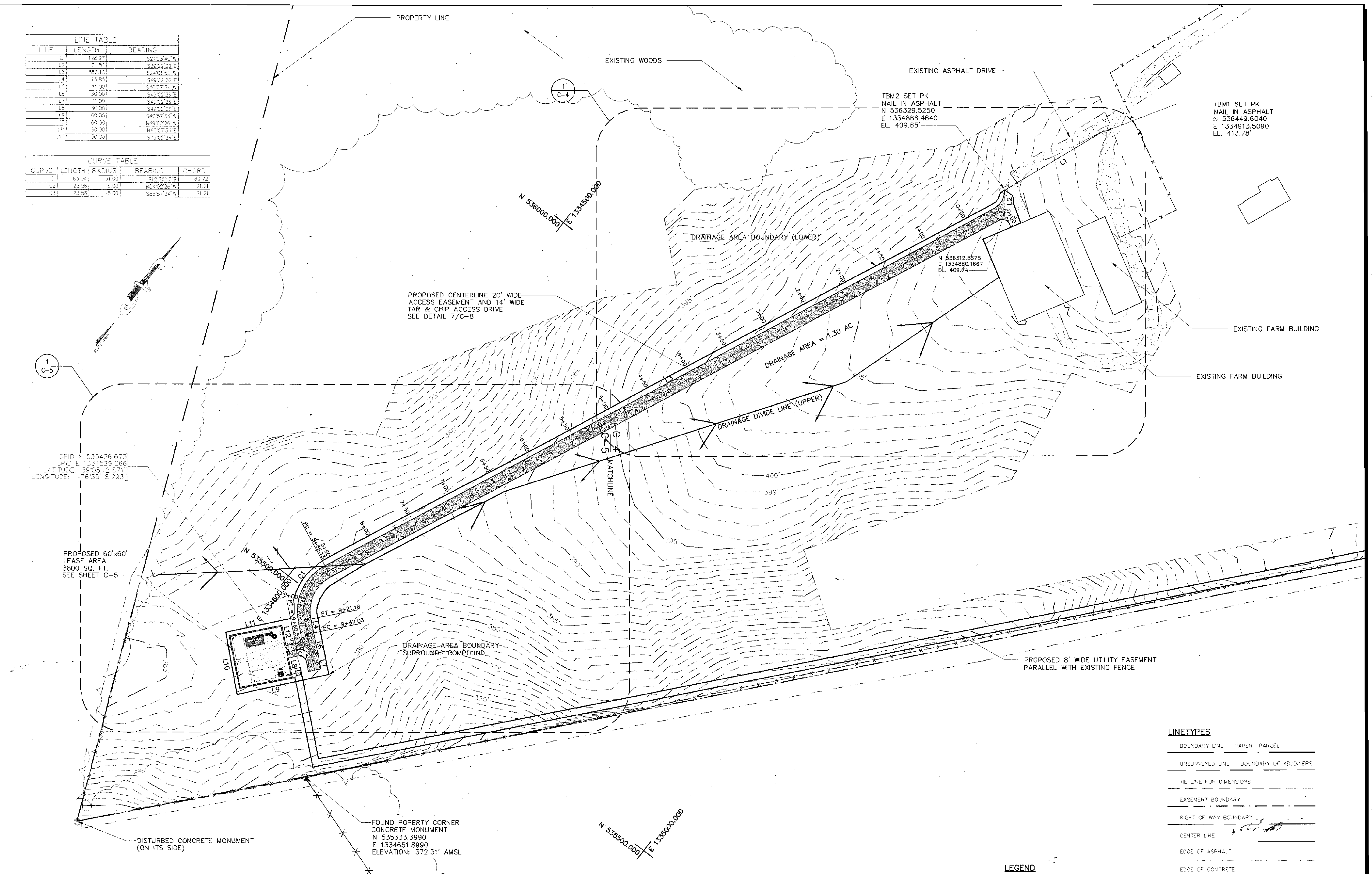
LINE TABLE		
LINE	LENGTH	BEARING
L1	128.91	S27°32'40"W
L2	23.53	S39°22'33"E
L3	856.13	S24°01'56"W
L4	15.85	S49°02'36"E
L5	11.00	S40°57'34"W
L6	30.00	S49°02'36"E
L7	11.00	S49°02'36"E
L8	30.00	S49°02'36"E
L9	60.00	S49°02'36"E
L10	60.00	S49°02'36"W
L11	60.00	S49°02'36"E
L12	30.00	S49°02'36"E

CURVE TABLE			
CURVE	LENGTH	RADIUS	CHORD
C1	85.04	51.00	512.30177E
C2	23.56	5.00	N04°02'36"W
C3	23.56	15.00	S89°57'34"W



GRID N: 535436.673  
 GRID E: 1334529.266  
 LATITUDE: 39°05'12.671"  
 LONGITUDE: -76°55'18.233"

PROPOSED 60'x60'  
 LEASE AREA  
 3600 SQ. FT.  
 SEE SHEET C-5



**entrex**  
 communication services, inc.

1575 Eye Street, N.W. Suite 350  
 WASHINGTON, D.C. 20005  
 PHONE: (202)408-0960  
 FAX: (202)408-0961

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6-16-04	SDP SIGNATURE SET	

SEAL:

22 JUN 2004

**Sprint**

APC REALTY AND EQUIPMENT CO., LLC  
 d/b/a  
 SPRINT PCS  
 CAPITAL DISTRICT

PROJECT NO:	1015.188
DESIGNER:	R.S.
ENGINEER:	M.M.

SCALE:  
 0 1/2 1  
 GRAPHIC SCALE IN INCHES

**ROY A. ZIMMERMAN**  
**WA54XC473C**  
**8282 MURPHY ROAD**  
**FULTON, MD 20759**

TITLE:  
**ENLARGED SITE PLAN**

4 OF 13

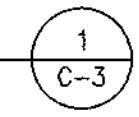
SHEET NUMBER:  
**C-3**

SDP-04-088

**APPROVALS**

APPROVED:	DEPARTMENT OF PLANNING AND ZONING
<i>[Signature]</i>	7/20/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>[Signature]</i>	7/21/04
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>[Signature]</i>	7/22/04
DIRECTOR	DATE

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



**LEGEND**

- FOUND PROPERTY CORNER
- SET PROPERTY CORNER
- △ BENCH MARKS
- CONCRETE SURFACE
- ASPHALT SURFACE
- GRAVEL SURFACE

**LINETYPES**

- BOUNDARY LINE - PARENT PARCEL
- UNSURVEYED LINE - BOUNDARY OF ADJOINERS
- TIE LINE FOR DIMENSIONS
- EASEMENT BOUNDARY
- RIGHT OF WAY BOUNDARY
- CENTER LINE
- EDGE OF ASPHALT
- EDGE OF CONCRETE
- EDGE OF GRAVEL
- EDGE OF DIRT
- FENCE LINE - CHAIN
- 1' CONTOUR LINE
- 5' CONTOUR LINE
- DRAINAGE AREA
- TREE OR VEGETATION LINE



LINE	LENGTH	BEARING
L1	128.97'	S21°23'40"W
L2	3' 52"	S39°22'33"E
L3	883.13'	S24°01'52"W
L4	15.35'	S49°02'36"E
L5	11.06'	S49°57'34"W
L6	37.01'	S49°47'34"E

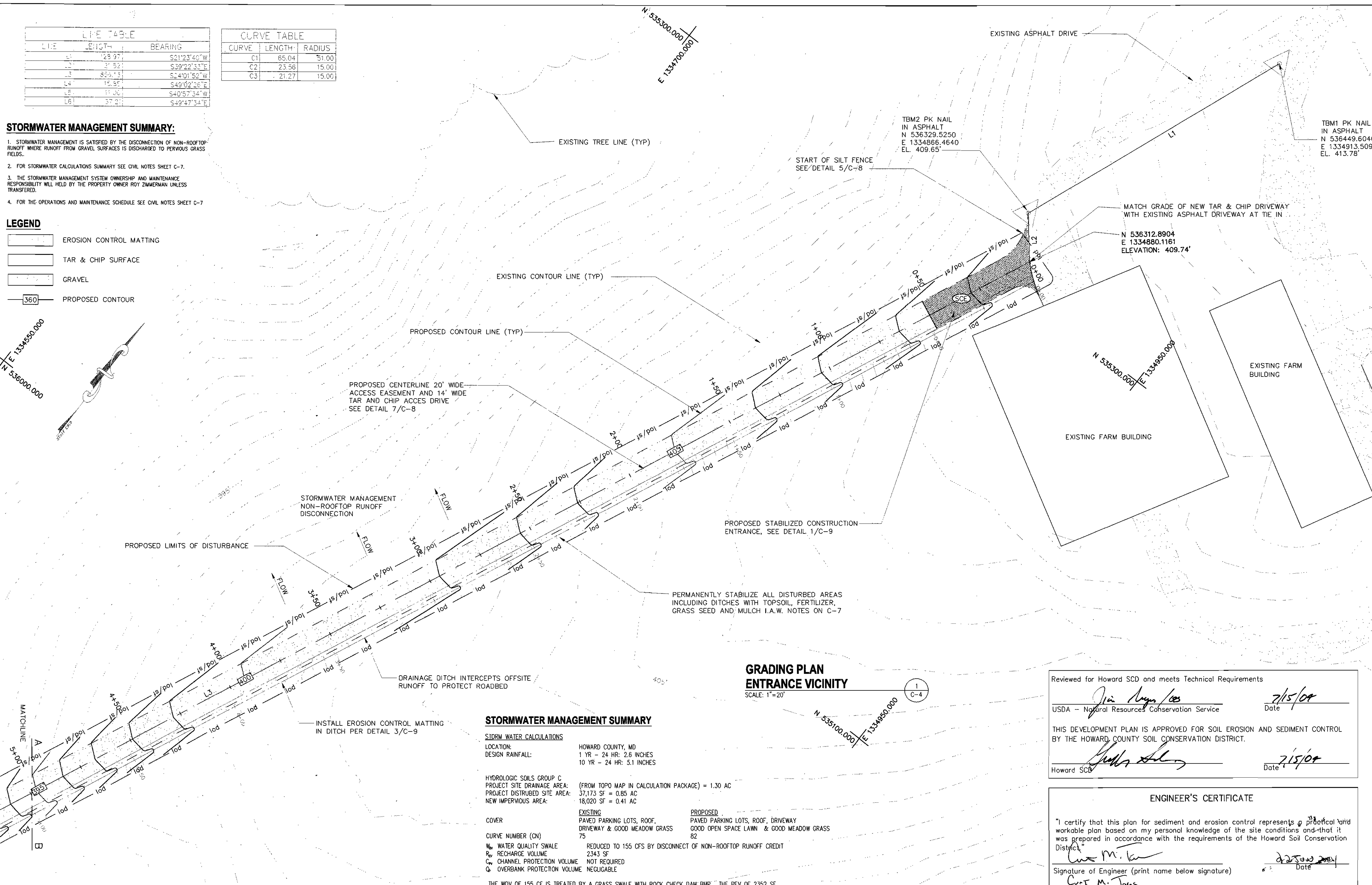
CURVE	LENGTH	RADIUS
C1	65.04'	51.00'
C2	23.56'	15.00'
C3	21.27'	15.00'

**STORMWATER MANAGEMENT SUMMARY:**

1. STORMWATER MANAGEMENT IS SATISFIED BY THE DISCONNECTION OF NON-ROOFTOP RUNOFF WHERE RUNOFF FROM GRAVEL SURFACES IS DISCHARGED TO PERVIOUS GRASS FIELDS.
2. FOR STORMWATER CALCULATIONS SUMMARY SEE CIVIL NOTES SHEET C-7.
3. THE STORMWATER MANAGEMENT SYSTEM OWNERSHIP AND MAINTENANCE RESPONSIBILITY WILL BE HELD BY THE PROPERTY OWNER ROY ZIMMERMAN UNLESS TRANSFERRED.
4. FOR THE OPERATIONS AND MAINTENANCE SCHEDULE SEE CIVIL NOTES SHEET C-7

**LEGEND**

- EROSION CONTROL MATTING
- TAR & CHIP SURFACE
- GRAVEL
- PROPOSED CONTOUR



**GRADING PLAN ENTRANCE VICINITY**  
SCALE: 1"=20'

**STORMWATER MANAGEMENT SUMMARY**

**STORM WATER CALCULATIONS**  
LOCATION: HOWARD COUNTY, MD  
DESIGN RAINFALL: 1 YR - 24 HR: 2.6 INCHES  
10 YR - 24 HR: 5.1 INCHES

HYDROLOGIC SOILS GROUP C  
PROJECT SITE DRAINAGE AREA: (FROM TOPO MAP IN CALCULATION PACKAGE) = 1.30 AC  
PROJECT DISTURBED SITE AREA: 37,173 SF = 0.85 AC  
NEW IMPERVIOUS AREA: 18,020 SF = 0.41 AC

COVER	EXISTING PAVED PARKING LOTS, ROOF, DRIVEWAY & GOOD MEADOW GRASS	PROPOSED PAVED PARKING LOTS, ROOF, DRIVEWAY GOOD OPEN SPACE LAWN & GOOD MEADOW GRASS
CURVE NUMBER (CN)	75	82
$W_p$ WATER QUALITY SWALE	REDUCED TO 155 CFS BY DISCONNECT OF NON-ROOFTOP RUNOFF CREDIT	
$R_p$ RECHARGE VOLUME	2343 SF	
$C_p$ CHANNEL PROTECTION VOLUME	NOT REQUIRED	
$O_p$ OVBANK PROTECTION VOLUME	NEGUCABLE	

THE WQV OF 155 CF IS TREATED BY A GRASS SWALE WITH ROCK CHECK DAM BMP. THE REV OF 2352 SF IS TREATED BY THE NON-STRUCTURAL BMP METHOD OF NON-ROOFTOP DISCONNECT OF GRAVEL AND PAVED IMPERVIOUS SURFACES. THE PAVED DRIVE AND GRAVEL COMPOUND RUNOFF IS DIRECTED TO THE PERVIOUS AREAS SURROUNDING IT WHERE IT IS INFILTRATED OR FILTERED BY VEGETATION.

STORMWATER MANAGEMENT SATISFIED BY THE NON-STRUCTURAL METHOD OF DISCHARGING THE RUNOFF FROM THE IMPERVIOUS AREAS TO A PERVIOUS AREA. THIS METHOD ALLOWS FOR A CREDIT APPLIED TO THE  $W_p$  AND  $R_p$  CALCULATIONS.

SPRINT OR A DESIGNATE REPRESENTATIVE WILL MAINTAIN STORMWATER MANAGEMENT.

**OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED OPEN CHANNEL SYSTEMS**

1. THE OPEN CHANNEL SYSTEM SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHALL BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE FACILITY IS FUNCTIONING PROPERLY.
2. THE OPEN CHANNEL SHALL BE MOWED A MINIMUM OF AS NEEDED DURING THE GROWING SEASON TO MAINTAIN A MAXIMUM GRASS HEIGHT OF LESS THAN 6 INCHES.
3. DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AS NEEDED.
4. VISIBLE SIGNS OF EROSION IN THE OPEN CHANNEL SHALL BE REPAIRED AS SOON AS NOTICED.
5. REMOVE SILT IN THE OPEN CHANNEL SYSTEM WHEN IT EXCEEDS 25% OF THE ORIGINAL WQV.

Reviewed for Howard SCD and meets Technical Requirements

USDA - Natural Resources Conservation Service  
*Jia Nguyen/ces* 7/15/08  
Date

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

Howard SCD  
*Shelby Selig* 7/15/08  
Date

**ENGINEER'S CERTIFICATE**

"I certify that this plan for sediment and erosion 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."

*Carl M. Torres* 7/22/08  
Signature of Engineer (print name below signature) Date

**DEVELOPER'S CERTIFICATE**

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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."

*Roy A. Zimmerman* 7/16/08  
*Roy A. Zimmerman*  
Signature of developer (print name below signature) Date

**APPROVALS**

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Chris Zimmerman* 7/20/08  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*Cindy Hamata* 7/21/08  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*Frank J. Coughlin* 7/24/08  
DIRECTOR DATE

**entrex**  
communication services, inc.

1575 Eye Street, N.W. Suite 350  
WASHINGTON, D.C. 20005  
PHONE: (202)408-0960  
FAX: (202)408-0961

**REVISION BLOCK**

DATE	DESCRIPTION	REV.
10-29-03	CONSTRUCTION REVIEW	
12-02-03	CONSTRUCTION	
12-17-03	SITE DEVELOPMENT PLAN	
03-17-04	COUNTY COMMENTS	
05-11-04	COUNTY COMMENTS	2
05-26-04	COUNTY COMMENTS	
6-16-04	SDP SIGNATURE SET	

SEAL:

STATE OF MARYLAND  
ROY A. ZIMMERMAN  
PROFESSIONAL ENGINEER  
22 JUL 2008

**Sprint**

APC REALTY AND EQUIPMENT CO., LLC  
d/b/a  
SPRINT PCS  
CAPITAL DISTRICT

PROJECT NO: 1015.188  
DESIGNER: R.S.  
ENGINEER: M.M.

SCALE:  
0 1/2 1  
GRAPHIC SCALE IN INCHES

**ROY A. ZIMMERMAN**  
**WA54XC473C**  
**8282 MURPHY ROAD**  
**FULTON, MD 20759**

TITLE:  
**GRADING PLAN ENTRANCE VICINITY**

5 OF 13

SHEET NUMBER:  
**C-4**

SDP-04-088

LINE	LENGTH	BE-BEING
L1	128.97	S23°23'42"W
L2	51.52	S39°21'12"E
L3	856.13	S44°01'52"W
L4	15.85	S49°02'28"E
L5	11.03	S40°57'34"W
L6	37.21	S49°47'34"E

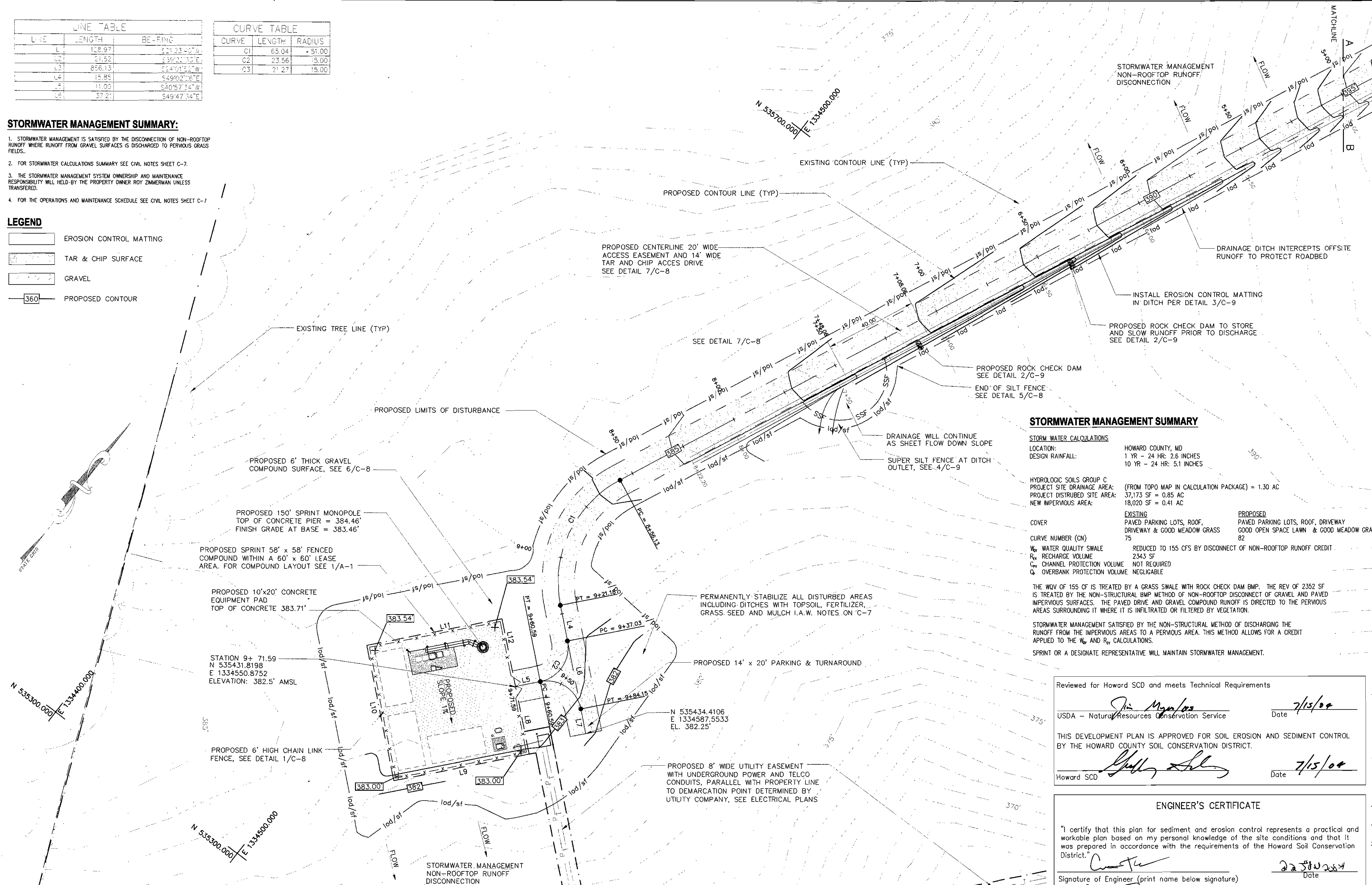
CURVE	LENGTH	RADIUS
C1	65.04	+51.00
C2	23.56	15.00
C3	21.27	15.00

**STORMWATER MANAGEMENT SUMMARY:**

1. STORMWATER MANAGEMENT IS SATISFIED BY THE DISCONNECTION OF NON-ROOFTOP RUNOFF WHERE RUNOFF FROM GRAVEL SURFACES IS DISCHARGED TO PERVIOUS GRASS FIELDS.
2. FOR STORMWATER CALCULATIONS SUMMARY SEE CIVIL NOTES SHEET C-7.
3. THE STORMWATER MANAGEMENT SYSTEM OWNERSHIP AND MAINTENANCE RESPONSIBILITY WILL BE HELD BY THE PROPERTY OWNER ROY ZIMMERMAN UNLESS TRANSFERRED.
4. FOR THE OPERATIONS AND MAINTENANCE SCHEDULE SEE CIVIL NOTES SHEET C-7

**LEGEND**

- EROSION CONTROL MATTING
- TAR & CHIP SURFACE
- GRAVEL
- PROPOSED CONTOUR



**STORMWATER MANAGEMENT SUMMARY**

**STORM WATER CALCULATIONS**  
 LOCATION: HOWARD COUNTY, MD  
 DESIGN RAINFALL: 1 YR - 24 HR: 2.6 INCHES  
 10 YR - 24 HR: 5.1 INCHES

HYDROLOGIC SOILS GROUP C  
 PROJECT SITE DRAINAGE AREA: (FROM TOPO MAP IN CALCULATION PACKAGE) = 1.30 AC  
 PROJECT DISTRIBUTED SITE AREA: 37,173 SF = 0.85 AC  
 NEW IMPERVIOUS AREA: 18,020 SF = 0.41 AC

COVER  
 EXISTING: PAVED PARKING LOTS, ROOF, DRIVEWAY & GOOD MEADOW GRASS  
 PROPOSED: PAVED PARKING LOTS, ROOF, DRIVEWAY & GOOD MEADOW GRASS

CURVE NUMBER (CN): 75  
 W<sub>s</sub> WATER QUALITY SWALE: REDUCED TO 155 CFS BY DISCONNECT OF NON-ROOFTOP RUNOFF CREDIT.  
 R<sub>v</sub> RECHARGE VOLUME: 2343 SF  
 C<sub>v</sub> CHANNEL PROTECTION VOLUME: NOT REQUIRED  
 O<sub>v</sub> OVERBANK PROTECTION VOLUME: NEGLIGIBLE

THE WQV OF 155 CF IS TREATED BY A GRASS SWALE WITH ROCK CHECK DAM BMP. THE REV OF 2352 SF IS TREATED BY THE NON-STRUCTURAL BMP METHOD OF NON-ROOFTOP DISCONNECT OF GRAVEL AND PAVED IMPERVIOUS SURFACES. THE PAVED DRIVE AND GRAVEL COMPOUND RUNOFF IS DIRECTED TO THE PERVIOUS AREAS SURROUNDING IT WHERE IT IS INFILTRATED OR FILTERED BY VEGETATION.

STORMWATER MANAGEMENT SATISFIED BY THE NON-STRUCTURAL METHOD OF DISCHARGING THE RUNOFF FROM THE IMPERVIOUS AREAS TO A PERVIOUS AREA. THIS METHOD ALLOWS FOR A CREDIT APPLIED TO THE W<sub>s</sub> AND R<sub>v</sub> CALCULATIONS.

SPRINT OR A DESIGNATE REPRESENTATIVE WILL MAINTAIN STORMWATER MANAGEMENT.

**entrex**  
 communication services, inc.  
 1575 Eye Street, N.W. Suite 350  
 WASHINGTON, D.C. 20005  
 PHONE: (202)408-0960  
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05-26-04	COUNTY COMMENTS	
6-18-04	SDP SIGNATURE SET	

SEAL:

**Sprint**  
 APC REALTY AND EQUIPMENT CO., LLC  
 d/b/a  
 SPRINT PCS  
 CAPITAL DISTRICT

Reviewed for Howard SCD and meets Technical Requirements  
 USDA - Natural Resources Conservation Service Date 7/15/04  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 Howard SCD Date 7/15/04

**ENGINEER'S CERTIFICATE**  
 "I certify that this plan for sediment and erosion 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 of Engineer (print name below signature) Date 7/15/04

**DEVELOPER'S CERTIFICATE**  
 "I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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."  
 Signature of developer (print name below signature) Date 6/16/04

PROJECT NO: 1015.188  
 DESIGNER: R.S.  
 ENGINEER: M.M.  
 SCALE:  
 0 1/2 1  
 GRAPHIC SCALE IN INCHES

**ROY A. ZIMMERMAN**  
 WA54XC473C  
 8282 MURPHY ROAD  
 FULTON, MD 20759

TITLE:  
**GRADING PLAN**  
**COMPOUND VICINITY**  
 6 OF 13  
 SHEET NUMBER:  
**C-5**  
 SDP-04-088

**APPROVALS**

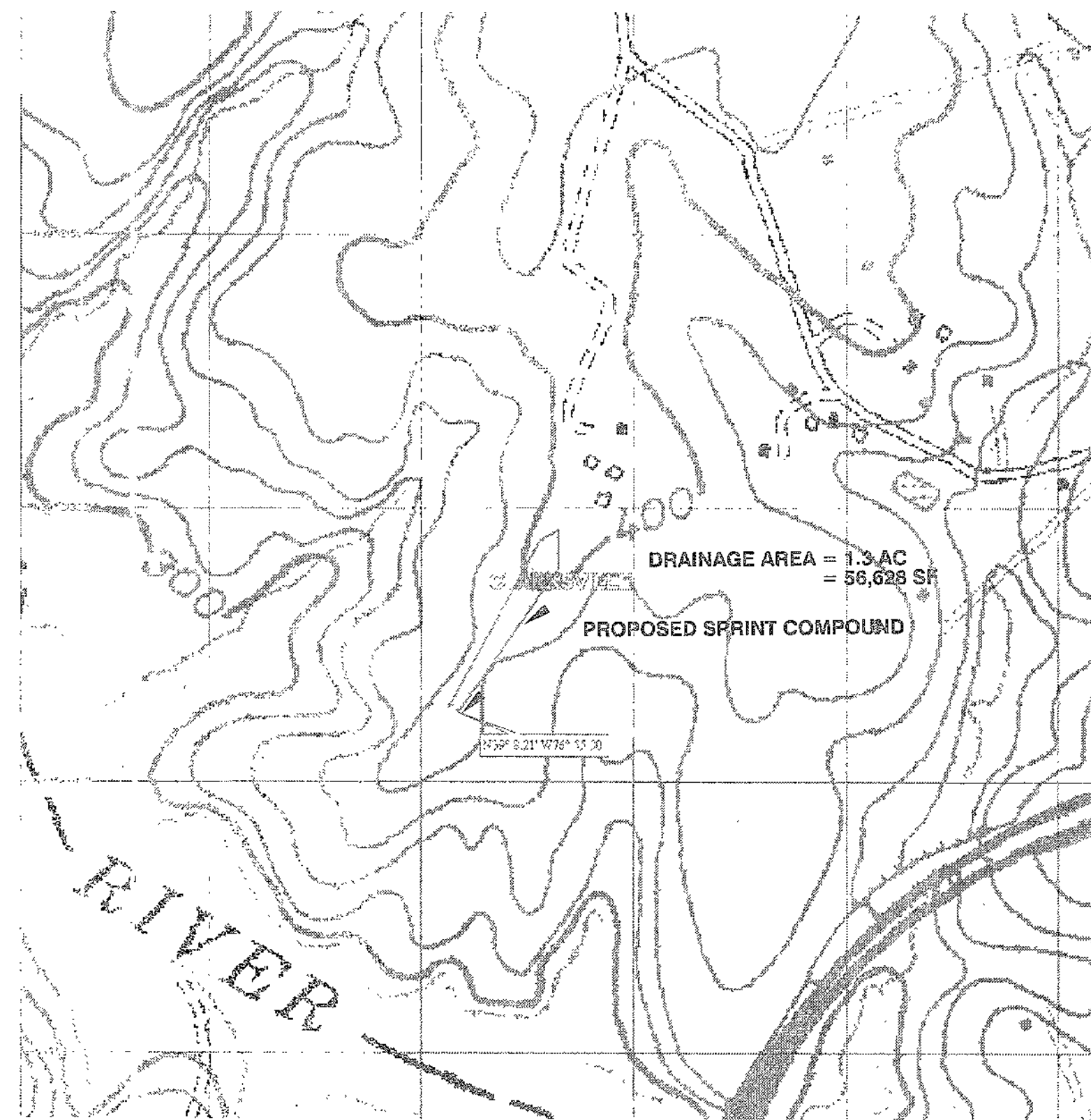
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Development Engineering Division Date 7/20/04  
 Chief, Division of Land Development Date 7/21/04  
 Director Date 7/22/04

**GRADING PLAN**  
**COMPOUND VICINITY**  
 SCALE: 1"=20'

**OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED OPEN CHANNEL SYSTEMS**

1. THE OPEN CHANNEL SYSTEM SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHALL BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE FACILITY IS FUNCTIONING PROPERLY.
2. THE OPEN CHANNEL SHALL BE MOWED A MINIMUM OF AS NEEDED DURING THE GROWING SEASON TO MAINTAIN A MAXIMUM GRASS HEIGHT OF LESS THAN 6 INCHES.
3. DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AS NEEDED.
4. VISIBLE SIGNS OF EROSION IN THE OPEN CHANNEL SHALL BE REPAIRED AS SOON AS NOTICED.
5. REMOVE SILT IN THE OPEN CHANNEL SYSTEM WHEN IT EXCEEDS 25% OF THE ORIGINAL WQV.





**DRAINAGE AREA MAP**  
SCALE: 1"=500'

1  
C-6



**SOILS MAP**  
SCALE: 1"=500'

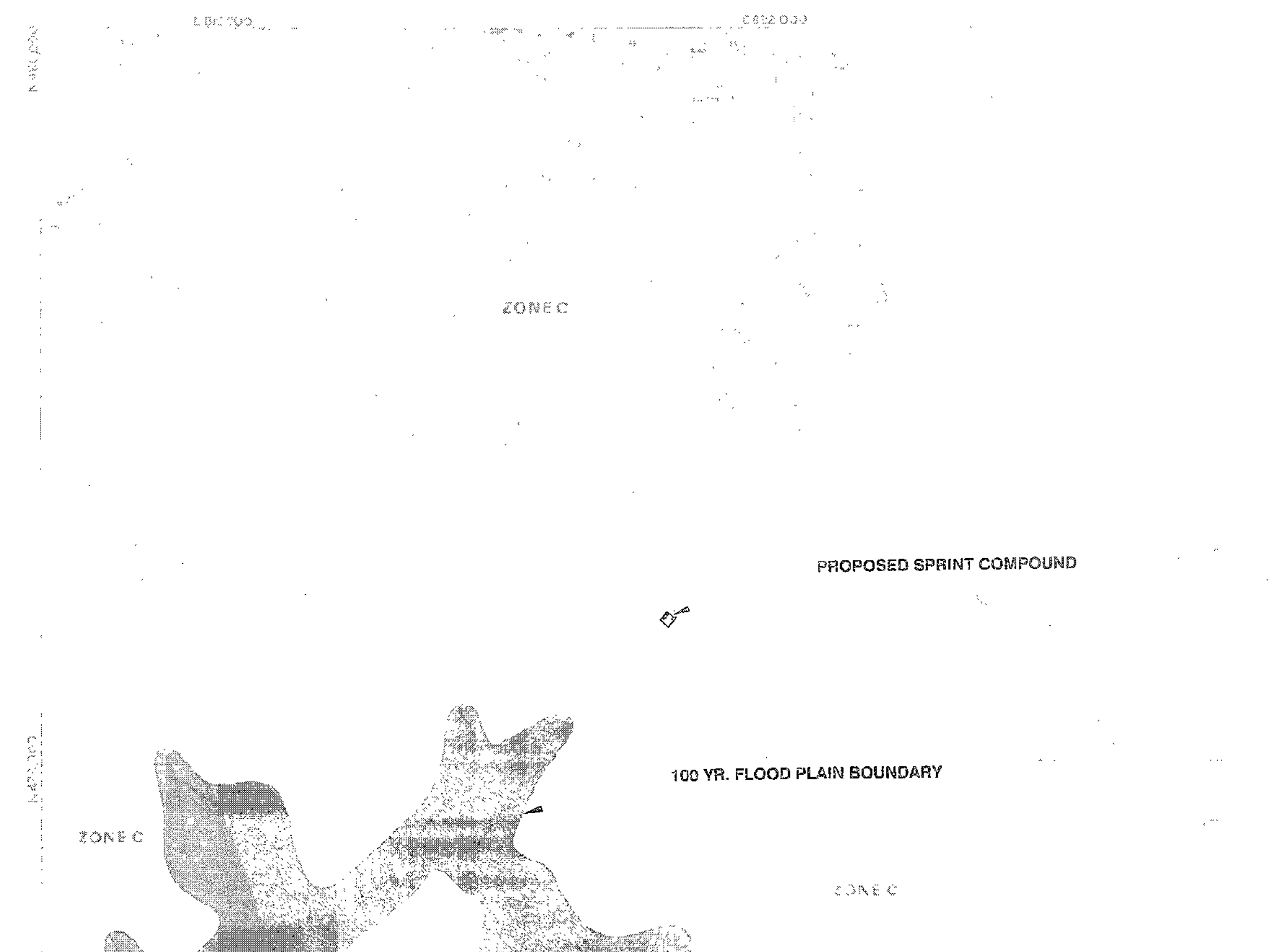
2  
C-6

**SOILS NOTE**  
THE SITE WAS FOUND TO BE LOCATED WITH A SOIL TYPE "CHB2" (CHESTER SILT LOAM)  
3% TO 8% SLOPE MODERATELY ERODED. HSG = C.



**AERIAL PHOTO**  
SCALE: 1"=500'

3  
C-6



**FEMA FLOOD MAP**  
SCALE: 1"=500'

4  
C-6



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6-16-04	SJP SIGNATURE SET	

SEAL:

*[Handwritten Signature]*

21 JUN 2004



APC REALTY AND  
EQUIPMENT CO., LLC  
d/b/a  
SPRINT PCS  
CAPITAL DISTRICT

PROJECT NO: 1015.188  
DESIGNER: B.M.  
ENGINEER: M.M.

SCALE:  
0 1/2 1  
GRAPHIC SCALE IN INCHES

ROY A. ZIMMERMAN  
WA54XC473C  
8282 MURPHY ROAD  
FULTON, MD 20759

TITLE:

**CIVIL MAPS**

**7 OF 13**

SHEET NUMBER:

**C-6**

**SDP-04-088**

**APPROVALS**

APPROVED: DEPARTMENT OF PLANNING AND ZONING

<i>[Signature]</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	<i>[Signature]</i> DATE
<i>[Signature]</i> CHIEF, DIVISION OF LAND DEVELOPMENT	<i>[Signature]</i> DATE
<i>[Signature]</i> DIRECTOR	<i>[Signature]</i> DATE



**GENERAL EROSION AND SEDIMENT CONTROL NOTES**

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO LATEST MDE STANDARDS AND SPECIFICATIONS FOR SEDIMENT AND EROSION CONTROL.
- THE CONTRACTOR SHALL APPLY PERMANENT OR TEMPORARY SOIL STABILIZATION TO ALL EXPOSED OR DISTURBED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MUST ALSO BE APPLIED TO UNEXPOSED OR DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WHICH WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. SOIL STABILIZATION MEASURES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING AND THE EARLY APPLICATION OF GRAVE, BASE MATERIAL ON AREAS TO BE PAVED.
- ALL SEDIMENT AND CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN LAND DISTURBANCE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND CLEANUP OF THE SEDIMENTATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE IMMEDIATELY.
- THE CONTRACTOR SHALL LIMIT SITE ACCESS BY CONSTRUCTION VEHICLES TO ENTRANCES PROTECTED BY A STONE CONSTRUCTION ENTRANCE OR AN APPROVED COMPARABLE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED FROM PAVED AREAS ON A DAILY BASIS.
- STOCKPILES OF SOIL AND OTHER FRODIBLE MATERIALS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION FOR STOCKPILES ON SITE AS WELL AS FOR MATERIALS TRANSPORTED FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL MONITOR AND TAKE PRECAUTIONS TO CONTROL DUST, INCLUDING (BUT NOT LIMITED TO) USE OF WATER, MULCH, OR CHEMICAL DUST ADHESIVES AND CONTROL OF CONSTRUCTION SITE TRAFFIC.
- EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT ADJACENT PROPERTIES, WETLANDS, WATERWAYS OR THE STORM DRAINAGE SYSTEM.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ANY ADDITIONAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED NECESSARY BY THE PLAN APPROVING AUTHORITY.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED. AFTER STABILIZATION IS COMPLETE, ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS. TRAPPED SEDIMENT SHALL BE SPREAD AND SEED.

**SEQUENCE OF CONSTRUCTION**

TASK	DESCRIPTION
1.	OBTAIN GRADING PERMIT (3 DAYS)
2.	CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (2 DAYS)
3.	CONSTRUCT SILT FENCE (3 DAYS)
4.	CONSTRUCT MONOPOLE (30 DAYS)
5.	FINISH GRADE WITHIN THE SITE (20 DAYS)
6.	INSTALL EQUIPMENT (20 DAYS)
7.	CONSTRUCT FENCE (10 DAYS)
8.	STABILIZE WITH TOPSOIL, FERTILIZER AND SEED (10 DAYS) INSTALL EROSION CONTROL MATING AS SHOWN IN CIVIL DETAILS
9.	REMOVE SEDIMENT CONTROL PRACTICES WITH PERMISSION FROM SEDIMENT CONTROL INSPECTOR (5 DAYS)

**SYMBOLS**

- SF \_\_\_\_\_ SF \_\_\_\_\_  
SF = SILT FENCE
- TPF \_\_\_\_\_ TPF \_\_\_\_\_  
TPF = TREE PROTECTION FENCE
- lod \_\_\_\_\_ lod \_\_\_\_\_  
LOD = LIMITS OF DISTURBANCE
- P \_\_\_\_\_ P \_\_\_\_\_  
P = POWER
- T \_\_\_\_\_ T \_\_\_\_\_  
T = TELEPHONE

**AREA TABLE**

IMPERVIOUS AREA	15,960 SF
DISTURBED AREA	33,340 SF
GRAVEL	63 CY

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.

**EARTH EXCAVATION NOTES**

- EXCAVATED MATERIAL SHALL BE USED AS BACKFILL WHEREVER POSSIBLE. BACKFILL MATERIAL SHALL BE OF A QUALITY SUITABLE TO THE ENGINEER AND FREE OF EXCESS ORGANIC MATTER AND BOULDERS.
- BACKFILL SLOPES SHALL BE STEPPED OR SERRATED AND PROCEED IN SIX (6) INCH LIFTS.
- EACH LAYER SHALL BE COMPACTED BY MECHANICAL TAMPERS OR OTHER APPROVED MEANS TO NINETY-FIVE (95) PERCENT OF MAXIMUM DENSITY AS MEASURED BY A.A.S.H.O. T-99.
- COMPACTATION TESTING SHALL BE MADE BY AN OWNER APPROVED MATERIALS TESTING FIRM AND THE RESULTS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE DESIGN ENGINEER FOR APPROVAL. TESTS SHALL BE CONDUCTED AT THE RATE OF ONE TEST PER 50 CY OF FILL OR 2000 SF OF SURFACE AREA (WHICHEVER IS GREATER). A MINIMUM OF 2 TESTS PER COMPACTED AREA ARE REQUIRED.
- THE BACKFILL SHALL BE PROPERLY GRADED TO BLEND WITH THE EXISTING GROUND AND DRAIN PROPERLY.
- MAXIMUM CUT OR FILL SLOPE:  
3:1 FOR SEED OR SOIL LAWN AREAS  
2:1 FOR STABILIZED LOW MAINTENANCE AREAS

**HOWARD COUNTY DRIVEWAY NOTES**

- DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - WIDTH - 12' (14' SERVING MORE THAN ONE RESIDENCE);
  - SURFACE - 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2" MIN.);
  - GEOMETRY - MAX. 15 % GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS;
  - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H2S LOADING);
  - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
  - STRUCTURAL CLEARANCE - MINIMUM 12 FEET;
  - MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.

**HOWARD COUNTY CHECKLIST ITEMS**

- APFO ROAD TESTS ARE NOT APPLICABLE TO THIS PROJECT.
- APFO MITIGATION PLANS ARE NOT APPLICABLE TO THIS PROJECT.
- A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT. THE PROJECT WILL REQUIRE ONE MAN TRIP TO THE SITE PER MONTH.
- A SIGHT DISTANCE ANALYSIS IS NOT REQUIRED FOR THIS PROJECT. THE SITE ACCESSED THROUGH PRIVATE PROPERTY.
- THERE ARE NO BURIAL GROUNDS OR CEMETERY SITES ON THIS PROPERTY.
- THERE ARE NO SCENIC ROADS ADJACENT TO, OR WITHIN 200 FT. OF THE PROPERTY.

**HOWARD COUNTY ZONING NOTES & REGULATIONS**

- IN ACCORDANCE WITH SECTION 128.E.2.A. OF THE ZONING REGULATIONS, THE MONOPOLE SHALL BE SETBACK A MINIMUM DISTANCE FROM PUBLIC STREET RIGHT-OF-WAY AND OTHER RESIDENTIALLY-ZONED LOTS EQUAL TO THE TOWER HEIGHT (INCLUDING ANTENNAS) MEASURED FROM GROUND LEVEL AND A MINIMUM DISTANCE FROM NON-RESIDENTIALLY-ZONED LOTS EQUAL TO 50 FEET OR ONE-THIRD OF THE TOWER HEIGHT (INCLUDING ANTENNAS) MEASURED FROM GROUND LEVEL, WHICHEVER IS GREATER.
- COMMUNICATION TOWERS SHALL BE GRAY OR A SIMILAR COLOR THAT MINIMIZES VISIBILITY, UNLESS A DIFFERENT COLOR IS REQUIRED BY THE FEDERAL COMMUNICATIONS COMMISSION OR THE FEDERAL AVIATION ADMINISTRATION.
- NO SIGNALS OR LIGHTS SHALL BE PERMITTED ON TOWERS UNLESS REQUIRED BY THE FEDERAL COMMUNICATIONS COMMISSION OR THE FEDERAL AVIATION ADMINISTRATION.
- A COMMUNICATION TOWER THAT IS NO LONGER USED SHALL BE REMOVED FROM THE SITE WITHIN ONE-YEAR OF THE DATE THAT THE USE CEASES.

**HOWARD COUNTY SOIL CONSERVATION DISTRICT NOTES**

- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
- THE DEVELOPER IS RESPONSIBLE FOR THE ACQUISITION OF ALL EASEMENTS, RIGHTS AND/OR RIGHTS OF WAY THAT MAY BE REQUIRED FOR GRADING AND/OR WORK ON ADJACENT PROPERTIES AFFECTED BY THIS PLAN.

**TOPSOIL SPECIFICATIONS:**

FOR SITES HAVING DISTURBED AREAS UNDER 5 ACRES  
SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

- TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CLINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.
- TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROVED EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS SHALL ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE STATE FERTILIZER LAWS AND SHALL BEAR THE NAME, TRADE NAME OR TRADEMARK AND WARRANTY OF THE PRODUCT.
- LIME MATERIALS SHALL BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED) WHICH CONTAINS AT LEAST 50% TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT AT LEAST 50% WILL PASS THROUGH A #100 MESH SIEVE AND 98-100% WILL PASS THROUGH A #20 MESH SIEVE.
- INCORPORATE LIME AND FERTILIZER INTO THE TOP 3-5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

**SECTION II: TEMPORARY SEEDING**

- VEGETATION - ANNUAL GRASS OR CRAIN USED TO PROVIDE COVER ON DISTURBED AREAS FOR UP TO 12 MONTHS. FOR LONGER DURATION OF VEGETATIVE COVER, PERMANENT SEEDING IS REQUIRED.
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED UNDER A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDBED PREPARATION: -- LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENE.
- SOIL AMENDMENTS: -- APPLY 600 LBS/ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).
- SEEDING: -- FOR PERIODS MARCH 1 -- APRIL 30 AND FROM AUGUST 15 -- OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.) FOR THE PERIOD MAY 1 -- AUGUST 14, SEED WITH 3 LBS/ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ. FT.), FOR THE PERIOD NOVEMBER 16 -- FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS/ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.
- MULCHING: -- APPLY 1-1/2 TO 2 TONS/ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED WOOD-FREE, 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 SLOPE 8 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
- REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

**A. SEED MIXTURES - TEMPORARY SEEDING**

NO.	SPECIES	SEED MIXTURE (FOR HARDNESS ZONE 6a) (FROM TABLE 2B)			SEEDING DEPTHS	FERTILIZER RATE (10 - 10 - 10)	LIME RATE
		APPLICATION RATE (LB/1000SF)	SEEDING DATES	SEEDING DEPTHS			
	RYE	3.22	2/1 10 4/30 8/15 10 11/20	1 - 2	600 LB/AC (15 LB/1000 SF)	2 TONS/AC (100 LB/1000 SF)	
	WEEPING LOVEGRASS	0.08	5/1 - 8/14	1/4 - 1/2			

**SECTION III: PERMANENT SEEDING**

SEEDING GRASS AND LEGUMES TO ESTABLISH GROUND COVER FOR A MINIMUM PERIOD OF ONE YEAR ON DISTURBED AREAS GENERALLY RECEIVING LOW MAINTENANCE.

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENE.

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

1. PREFERRED -- APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS/ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL AT TIME OF SEEDING. APPLY 400 LBS/ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.)

2. ACCEPTABLE -- APPLY 2 TONS/ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS/ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING -- FOR THE PERIODS MARCH 1 -- APRIL 30, AND AUGUST 1 -- OCTOBER 15, SEED WITH 60 LBS/ACRE (14 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE FOR THE PERIOD MAY 1 -- JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS/ACRE (.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS, DURING THE PERIOD OF OCTOBER 16 -- FEBRUARY 28, PROTECT SITE BY:

OPTION 1 -- TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING.  
OPTION 2 -- USE SOO. OPTION 3 -- SEER: WITH 80 LBS/ACRE KENTUCKY 30 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 SLOPE 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.

A. SEED MIXTURES - PERMANENT SEEDING

- FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREAFORM FERTILIZER (46-0-0) AT 3 1/2 LBS/1000 SQ.FT. (150 LBS/AC), IN ADDITION TO THE ABOVE SOIL AMENDMENTS SHOWN IN THE TABLE BELOW, TO BE PERFORMED AT THE TIME OF SEEDING.

NO.	SPECIES	SEED MIXTURE (FOR HARDNESS ZONE 6a) (FROM TABLE 2B)			FERTILIZER RATE (10 - 20 - 20)			LIME RATE
		APPLICATION RATE (LB/1000SF)	SEEDING DATES	SEEDING DEPTHS	N	P205	K20	
1	TALL FESCUE (83%) WEEPING LOVEGRASS (2%) PLUS SERCOLA LESPEDEZA (15%)	2.5 0.07 0.46	3/1 TO 5/15 5/16 TO 8/14 8/15 TO 10/15	1/4 - 1/2	90 LB/AC (2 LB/1000 SF)	175 LB/AC (4 LB/1000 SF)	175 LB/AC (4 LB/1000 SF)	2 TONS/AC (100 LB/1000 SF)

**SEDIMENT CONTROL NOTES:**

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, 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.
- 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.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOO (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.
- 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.
- SITE ANALYSIS:  
TOTAL AREA OF SITE: --- 0.85 --- ACRES  
AREA DISTURBED: --- 0.85 --- ACRES  
AREA TO BE ROOFED OR PAVED: --- 0.41 --- ACRES  
AREA TO BE VEGETATIVELY STABILIZED: --- 0.44 --- ACRES  
TOTAL CUT: --- 355 --- CU. YDS.  
TOTAL FILL: --- 355 --- CU. YDS.  
OFFSITE WASTE/BORROW AREA LOCATION: GRAVEL SUPPLY QUARRY
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORK DAY, WHICHEVER IS SHORTER.

Reviewed for Howard SCD and meets Technical Requirements

USDA - Natural Resources Conservation Service

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

Howard SCD

**ENGINEER'S CERTIFICATE**

"I certify that this plan for sediment and erosion 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 of Engineer (print name below signature) \_\_\_\_\_ Date: 6/22/2004

**DEVELOPER'S CERTIFICATE**

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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."

Signature of developer (print name below signature) \_\_\_\_\_ Date: 6/22/04

**entrex**  
communication services, inc.

1575 Eye Street, N.W. Suite 350  
WASHINGTON, D.C. 20005  
PHONE: (202)408-0960  
FAX: (202)408-0961

**REVISION BLOCK**

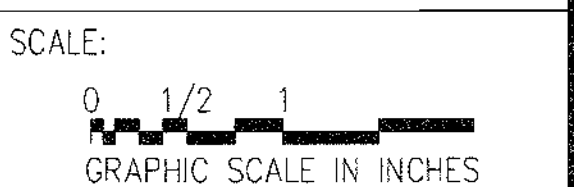
DATE	DESCRIPTION	REV.
10-29-03	CONSTRUCTION REVIEW	
12-02-03	CONSTRUCTION	
12-17-03	SITE DEVELOPMENT PLAN	
03-17-04	COUNTY COMMENTS	
05-11-04	COUNTY COMMENTS	2
05-26-04	COUNTY COMMENTS	
6-16-04	SDP SIGNATURE SET	

SEAL:

**Sprint**

APC REALTY AND EQUIPMENT CO., LLC  
d/b/a  
SPRINT PCS  
CAPITAL DISTRICT

PROJECT NO: 1015188  
DESIGNER: B.M.  
ENGINEER: M.M.



**ROY A. ZIMMERMAN**  
**WA54XC473C**  
**8282 MURPHY ROAD**  
**FULTON, MD 20759**

**CIVIL NOTES**

**8 OF 13**

SHEET NUMBER:  
**C-7**  
**SDP-04-088**

**APPROVALS**

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION: \_\_\_\_\_ DATE: 7/22/04

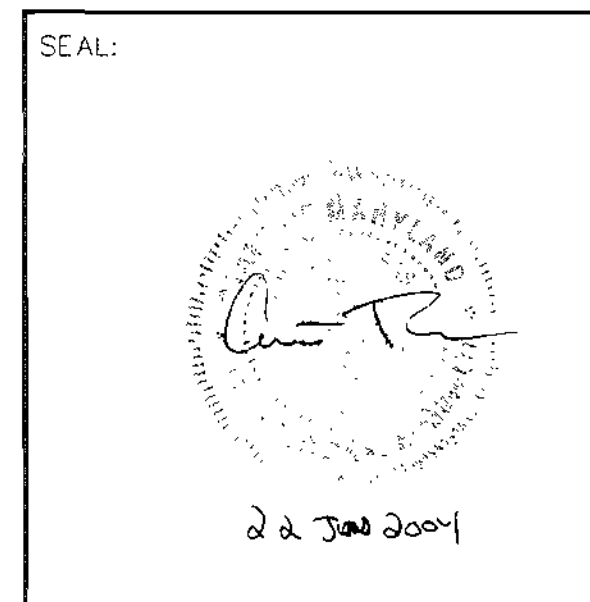
CHIEF, DIVISION OF LAND DEVELOPMENT: \_\_\_\_\_ DATE: 7/21/04

DIRECTOR: \_\_\_\_\_ DATE: 7/22/04



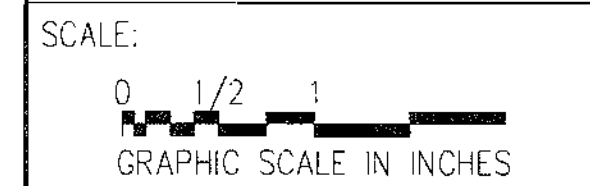
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APC REALTY AND  
EQUIPMENT CO., LLC  
d/b/a  
SPRINT PCS  
CAPITAL DISTRICT

PROJECT NO: 1015.188  
DESIGNER: B.M.  
ENGINEER: M.M.



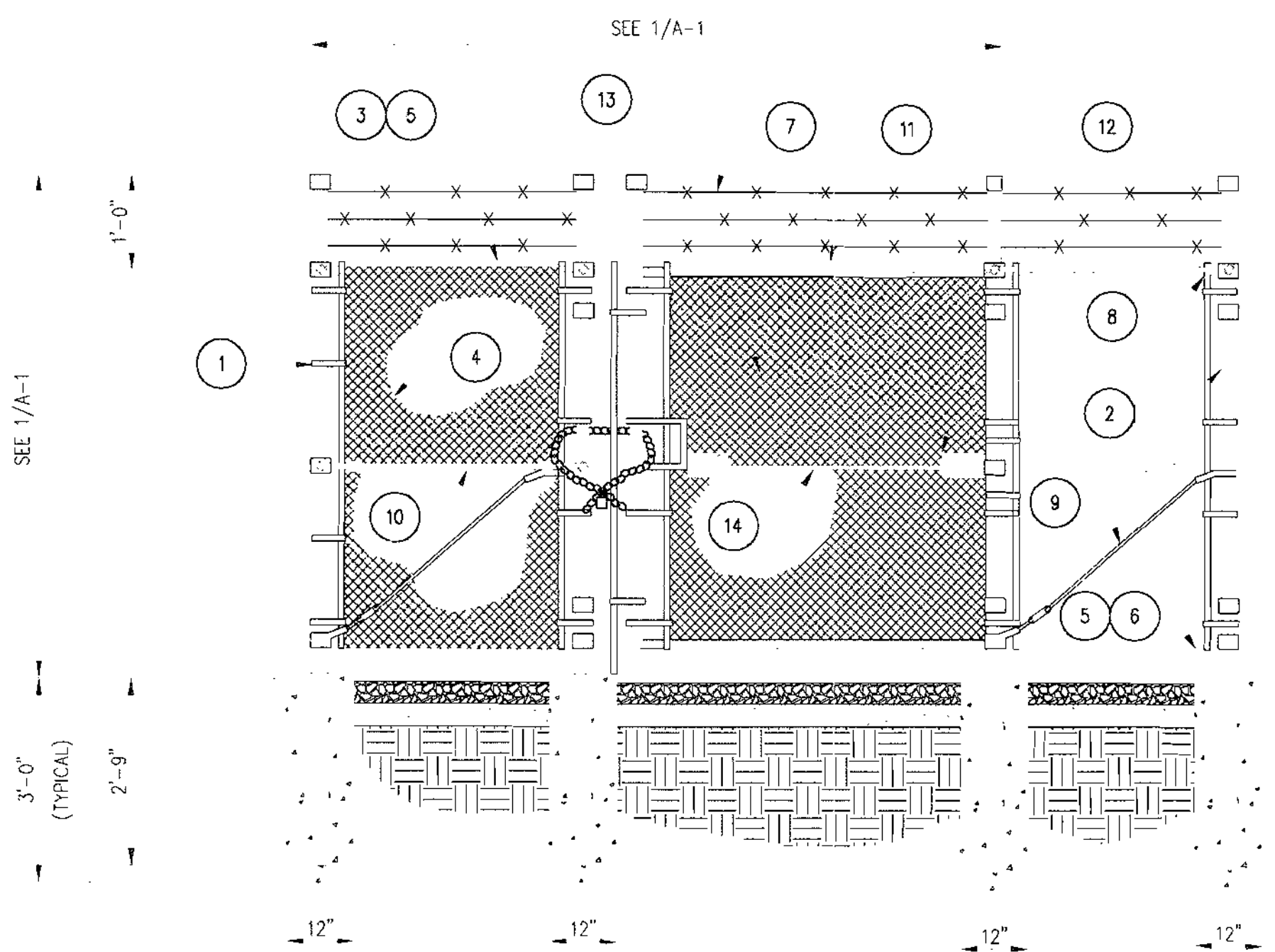
**ROY A. ZIMMERMAN**  
**WA54XC473C**  
**8282 MURPHY ROAD**  
**FULTON, MD 20759**

TITLE:  
**CIVIL DETAILS**

**9 OF 13**

SHEET NUMBER:  
**C-8**

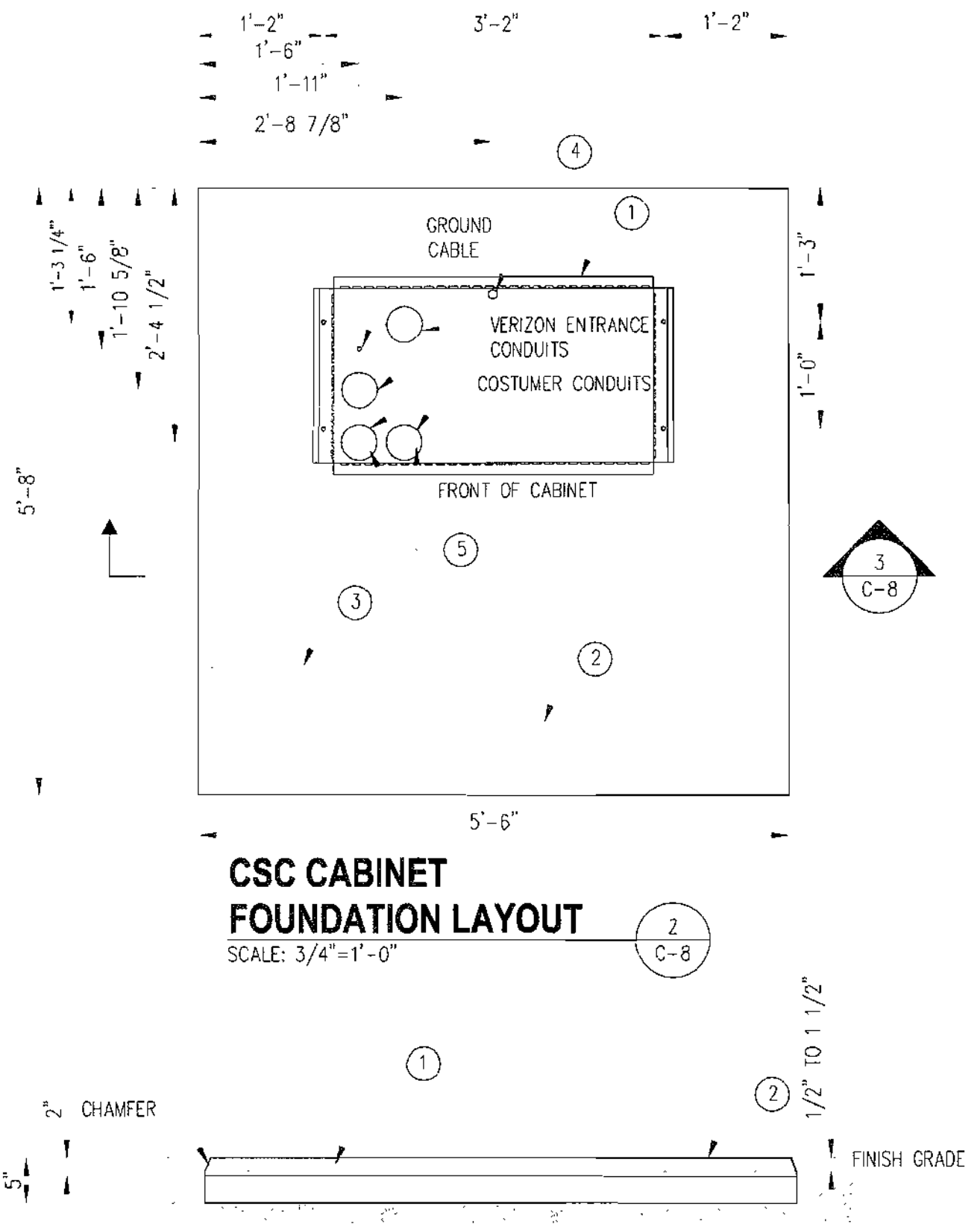
**SDP-04-088**



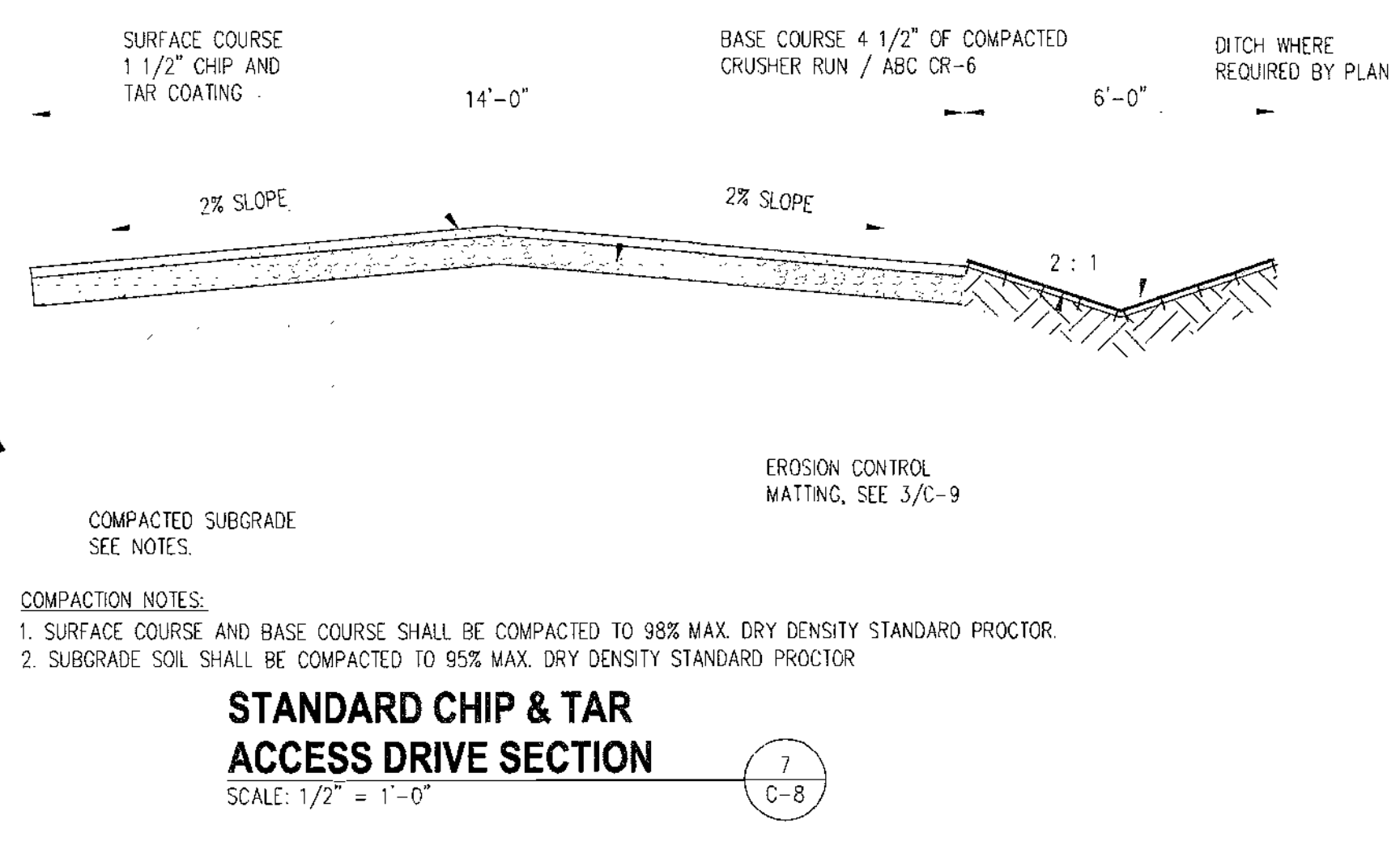
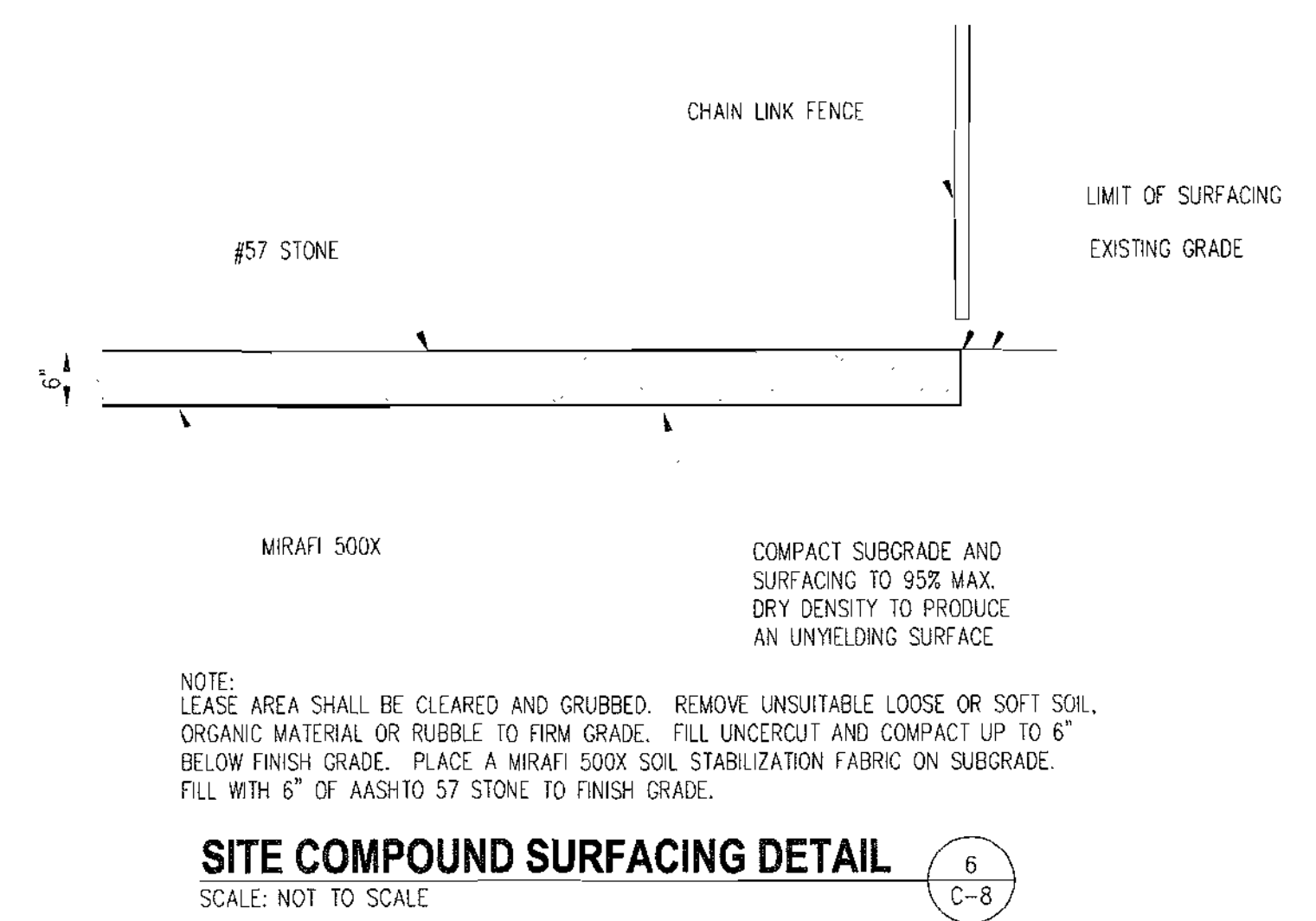
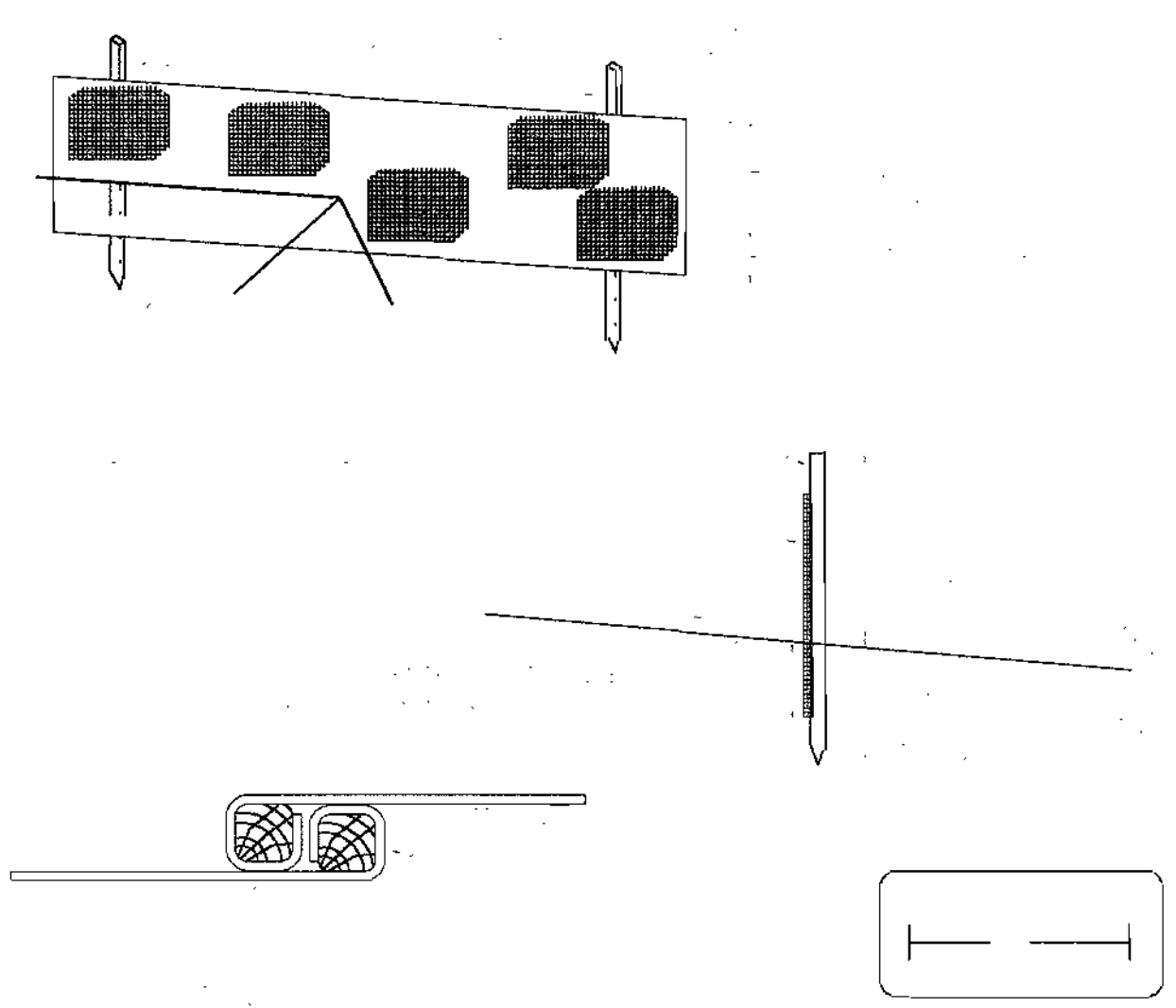
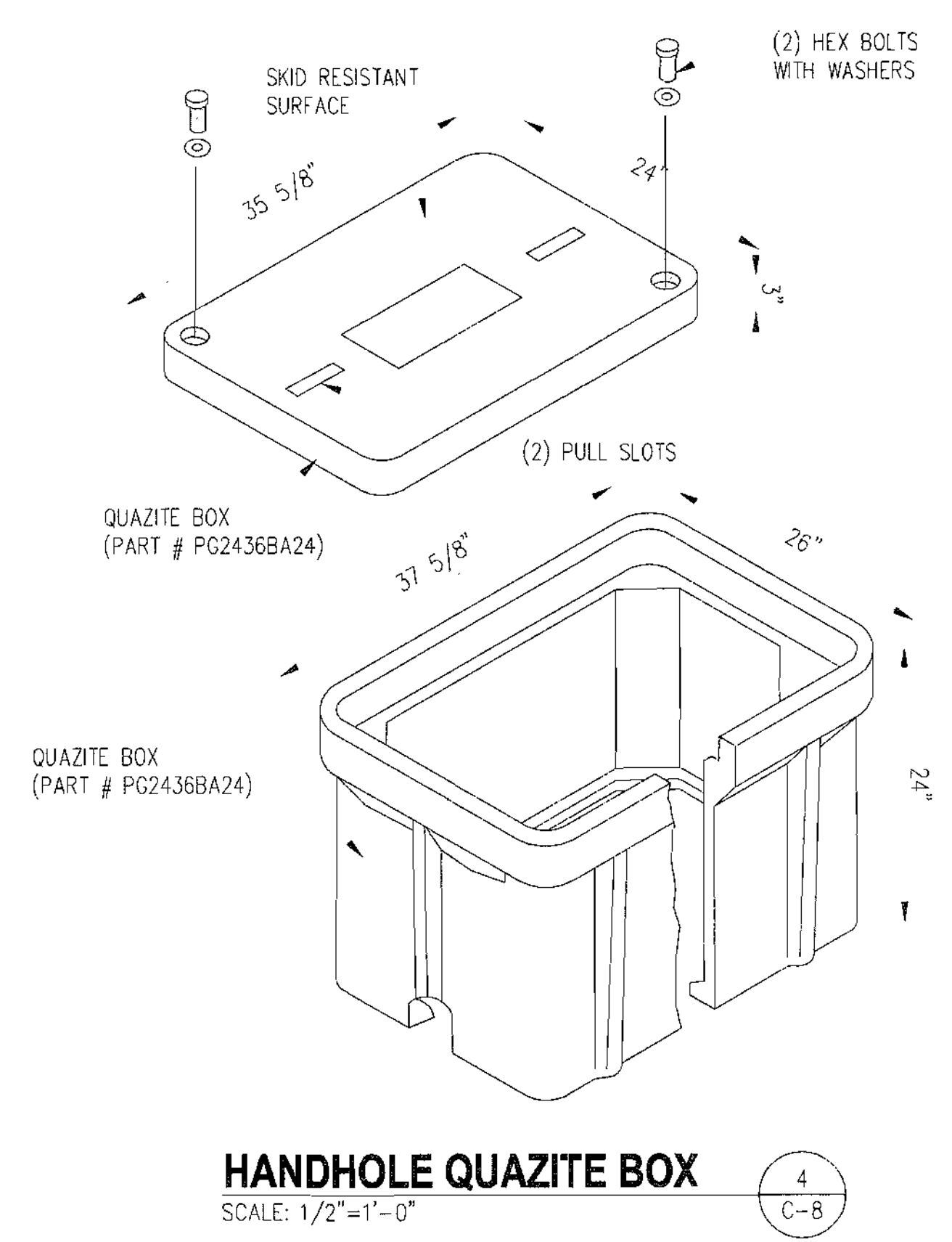
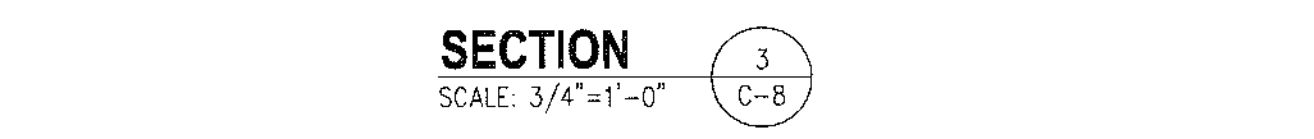
- GENERAL NOTES:**
1. INSTALL FENCING PER ASTM F-567
  2. INSTALL SWING GATES PER ASTM F- 900
  3. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED IF REQUIRED.
  4. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE 1 1/2" GALV. (HOT DIP, ASTM A120 GRADE "A" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDING SHALL BE COATED WITH (3) COATS OF COLD GALV. (OR EQUAL).
  5. ALL OPEN POSTS SHALL HAVE END-CAPS.

- REFERENCE NOTES:**
1. CORNER, END OR PULL POST 4" NOMINAL SCHEDULE 40 PIPE.
  2. LINE POST: 3" SCHEDULE 40 PIPE, PER ASTM-F1083. LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 8'-0" O.C.
  3. TOP RAIL & BRACE RAIL: 1 1/2" PIPE, PER ASTM-F1083.
  4. FABRIC: 9 GA CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392
  5. TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HDG RINGS SPACED MAX. 24" INTERVALS.
  6. TENSION WIRE: 9 GA. GALVANIZED STEEL.

7. BARBED WIRE: DOUBLE STRAND 12-1/2" O.D. TWISTED WIRE TO MATCH WITH FABRIC 14 GA, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
8. STRETCHER BAR.
9. 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.
10. FENCE CORNER POST BRACE: 1 5/8" DIA. EACH CORNER EACH WAY.
11. GATE FRAME: 1 1/2" PIPE, PER ASTM-F1083.
12. "MIS" MULTI-LOCKING DEVICE #MT-06477, (O.F.C.I.)
13. GATE DIAGONAL GALVANIZED STEEL 1 1/2" PIPE
14. GATE FRAME BRACE: 1 5/8" DIAMETER.



- NOTES:**
1. HUB FABRICATING PAD BASE FRAME P/N 60738. HUB FABRICATING COMPANY 100 GIBRALTOR ROAD, READING PA (610) 779-2200
  2. ALL CONCRETE TO BE 4000 PSI AT 28 DAYS AND IN ACCORDANCE WITH ACI STANDARDS.
  3. 6x6-W4.0 x W4.0 WELDED WIRE MESH AT MID DEPTH.
  4. AC POWER CONDUIT (1" DIA.) SHALL BE TO 1/2" ± 1/2" ABOVE GRADE.
  5. TELCO CONDUIT (4" DIA.) SHALL BE 7 1/2" ± 1/2" ABOVE GRADE.
  6. THE APPROXIMATE WEIGHT OF FOUNDATION IS 2620#.
  7. CHAMFERED CORNERS SHALL BE FINISHED WITH EDGING TOOL.



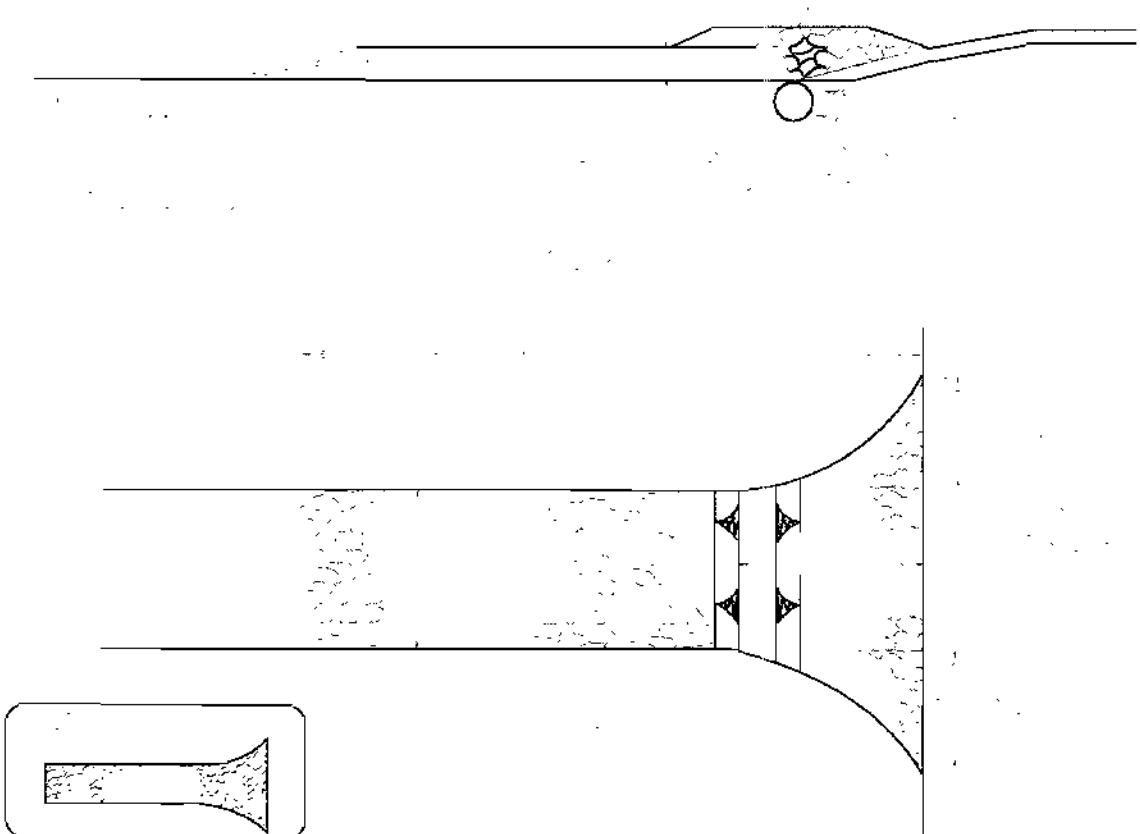
- COMPACTION NOTES:**
1. SURFACE COURSE AND BASE COURSE SHALL BE COMPACTED TO 98% MAX. DRY DENSITY STANDARD PROCTOR.
  2. SUBGRADE SOIL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY STANDARD PROCTOR

**APPROVALS**

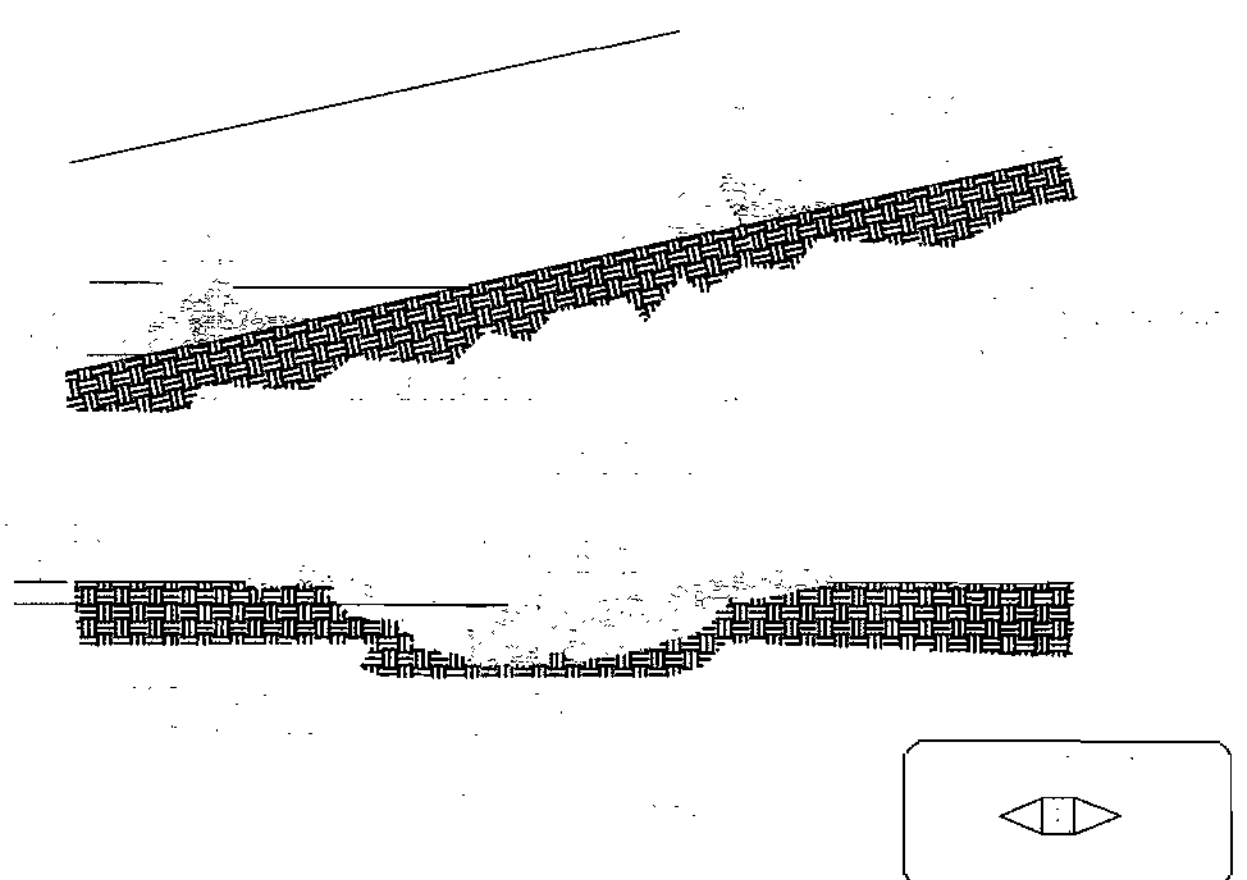
APPROVED: DEPARTMENT OF PLANNING AND ZONING

	7/22/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
	7/21/04
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
	7/22/04
DIRECTOR	DATE

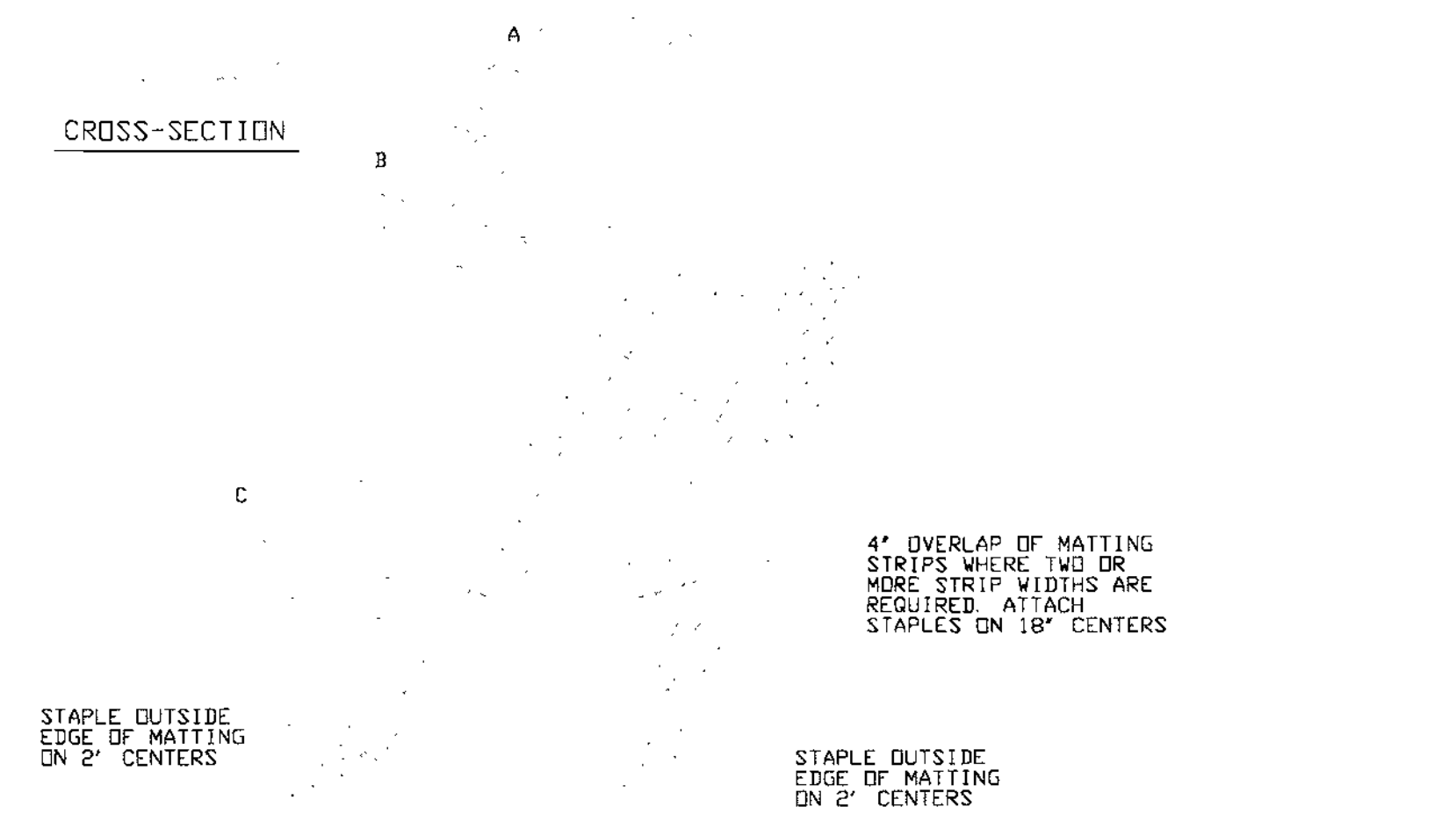




**STABILIZED CONSTRUCTION ENTRANCE**  
SCALE: N.T.S. 1  
C-9



**STONE CHECK DAM**  
SCALE: 3/8" = 1' - 0" 2  
C-9



**EROSION CONTROL MATTING**  
SCALE: N.T.S. 3  
C-9

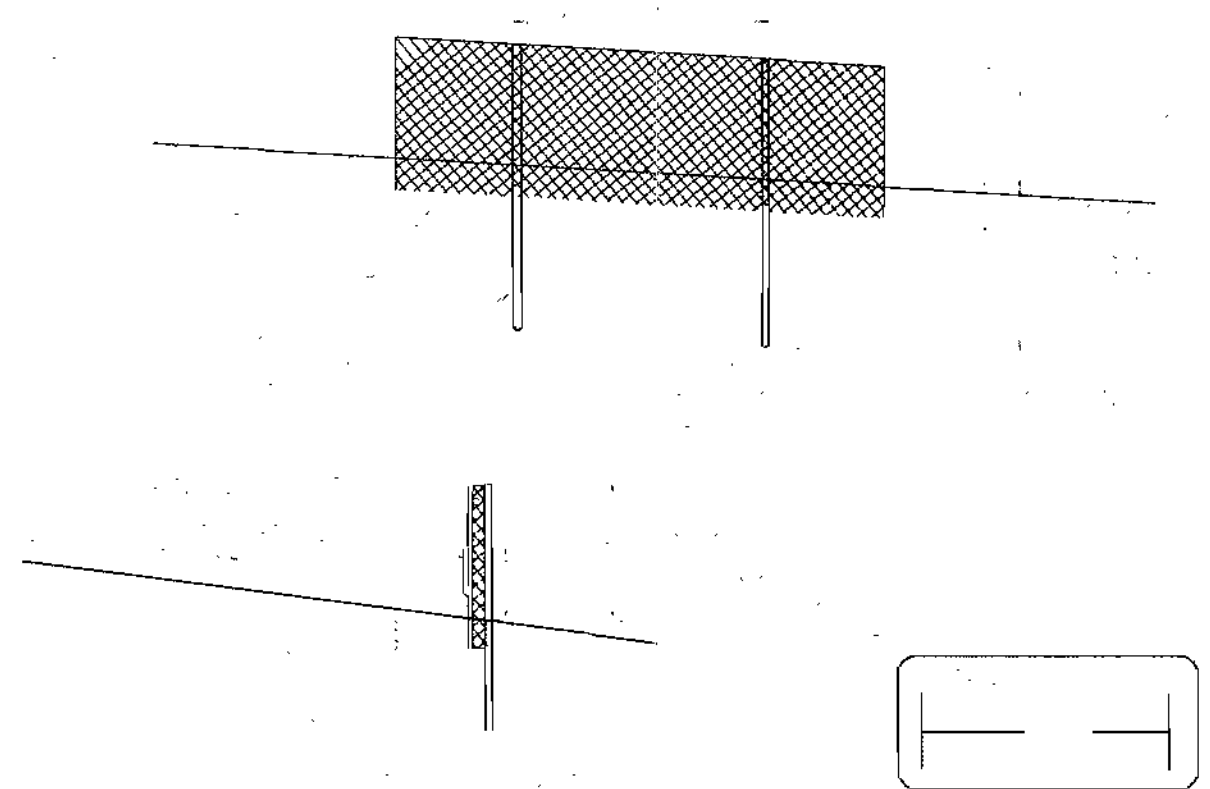
4" OVERLAP OF MATTING STRIPS WHERE TWO OR MORE STRIP WIDTHS ARE REQUIRED. ATTACH STAPLES ON 18" CENTERS

STAPLE OUTSIDE EDGE OF MATTING ON 2" CENTERS

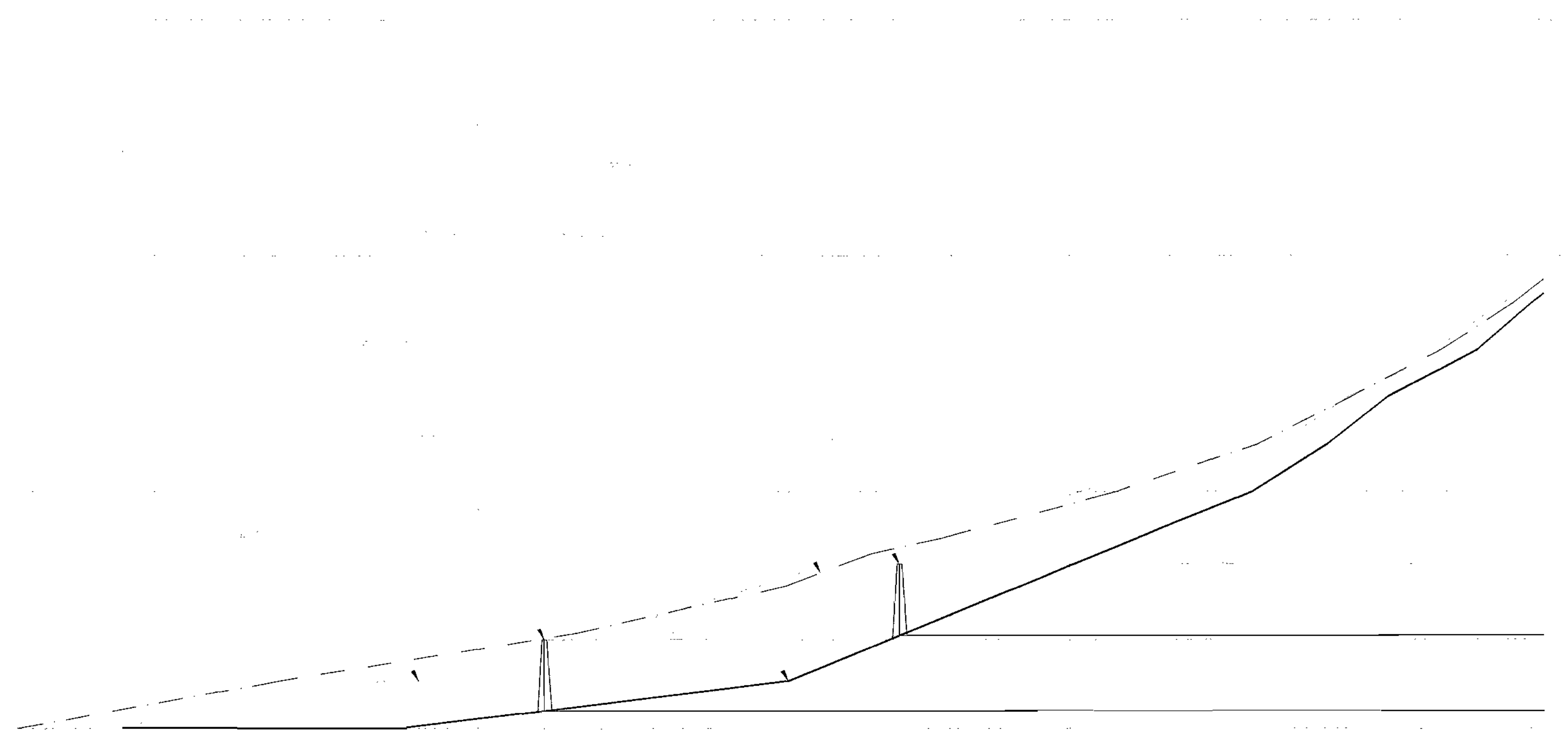
STAPLE OUTSIDE EDGE OF MATTING ON 2" CENTERS

6" 10"

TYPICAL STAPLES NO. 11 GAUGE WIRE



**SUPER SILT FENCE**  
SCALE: N.T.S. 4  
C-9



**STORMWATER MANAGEMENT SWALE PROFILE**  
SCALE: 1" = 20' HORIZONTAL 5  
C-9

**APPROVALS**

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*[Signature]* 7/20/04  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

*[Signature]* 7/21/04  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*[Signature]* 7/22/04  
DIRECTOR DATE

**entrex**  
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1575 Eye Street, N.W. Suite 350  
WASHINGTON, D.C. 20005  
PHONE: (202)408-0960  
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SEAL:

22 Jun 2004

**Sprint**

APC REALTY AND EQUIPMENT CO., LLC  
d/b/a  
SPRINT PCS  
CAPITAL DISTRICT

PROJECT NO: 1015.188  
DESIGNER: B.M.  
ENGINEER: M.M.

SCALE:  
0 1/2 1  
GRAPHIC SCALE IN INCHES

**ROY A. ZIMMERMAN**  
WA54XC473C  
8282 MURPHY ROAD  
FULTON, MD 20759

TITLE:  
**CIVIL DETAILS**

10 OF 13

SHEET NUMBER:  
**C-9**

**SDP-04-088**







# PERIMETER LANDSCAPING REQUIREMENTS

LANDSCAPING IS REQUIRED FOR THE PROPOSED COMPOUND PERIMETER ONLY PER THE HOWARD COUNTY LANDSCAPE MANUAL, CHAPTER II TITLED "GENERAL INFORMATION." THIS SECTION STATES THAT AN EXPANSION THAT INCREASES THE NON-RESIDENTIAL BUILDING SPACE BY LESS THAN 50% SHALL BE REQUIRED TO PROVIDE LANDSCAPING FOR THE ADDITIONAL DEVELOPMENT ONLY.

PARCEL ZONING: RR-DEO  
 EXISTING USE: AGRICULTURAL  
 PROPOSED USE: AGRICULTURAL WITH SPECIAL EXCEPTION FOR TELECOMMUNICATIONS COMPOUND AND MONOPOLE.

PERIMETER OF COMPOUND: 240 FT.  
 PROPOSED LANDSCAPE EDGE TYPE: C (HEAVY BUFFER)

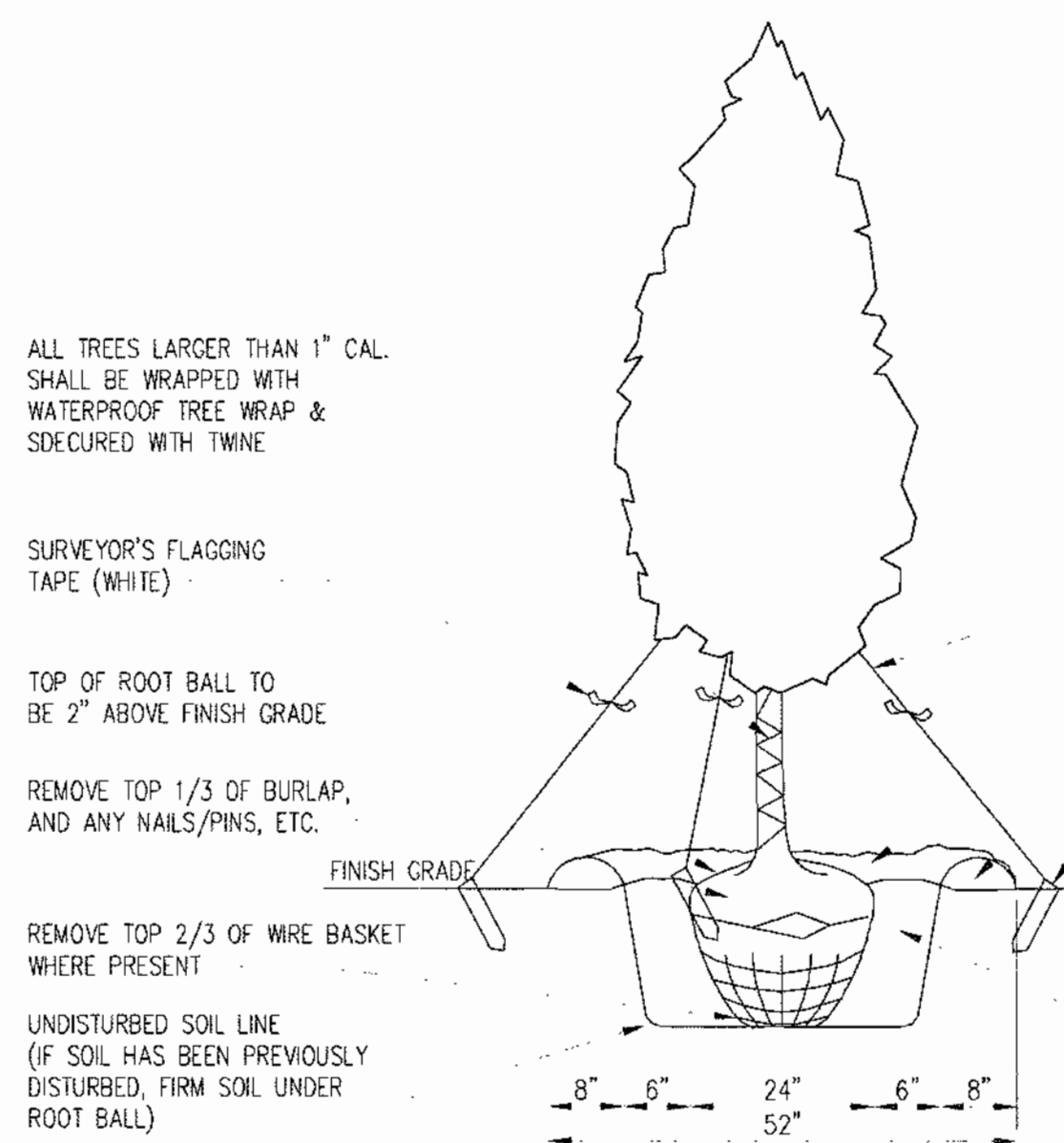
PLANTING REQUIREMENTS:  
 1 SHADE TREE PER 40 FT = 6 SHADE TREES  
 1 EVERGREEN TREE PER 20 FT = 12 EVERGREEN TREES

## GENERAL PLANTING NOTES

- ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED AND BURLAPPED AS SPECIFIED.
- ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- ALL PLANTS ARE SUBJECT TO THE APPROVAL OF SPECTRASITE CONSTRUCTION MANAGER BEFORE, DURING AND AFTER INSTALLATION.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN.
- ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZATION, ETC.) OF PLANTING AREAS AND LAWNS UNTIL THE WORK IS ACCEPTED IN TOTAL BY SPRINT'S REPRESENTATIVE.
- THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF THE TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
- THE OWNER AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE ONE-YEAR GUARANTEE PERIOD UNLESS OTHERWISE DETERMINED.
- SPECTRASITE'S REPRESENTATIVE WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
- AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION.
- ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFLOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED MATERIAL OF WITH THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL SPECIFICATIONS.
- STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
- AMENDED AREAS TO CONSIST OF 40% COMPOST AND 60% EXISTING SOIL AND 1/3 AMOUNT OF FERTILIZER APPLICATION RATE RECOMMENDED OF PLANTING. IN A 1:3:2 RATIO FERTILIZER AT TIME IN NOV/DEC. OF THE FOLLOWING YEAR, APPLY FULL PRIMARY AMOUNT OF FERTILIZER.

## COUNTY LANDSCAPING NOTES

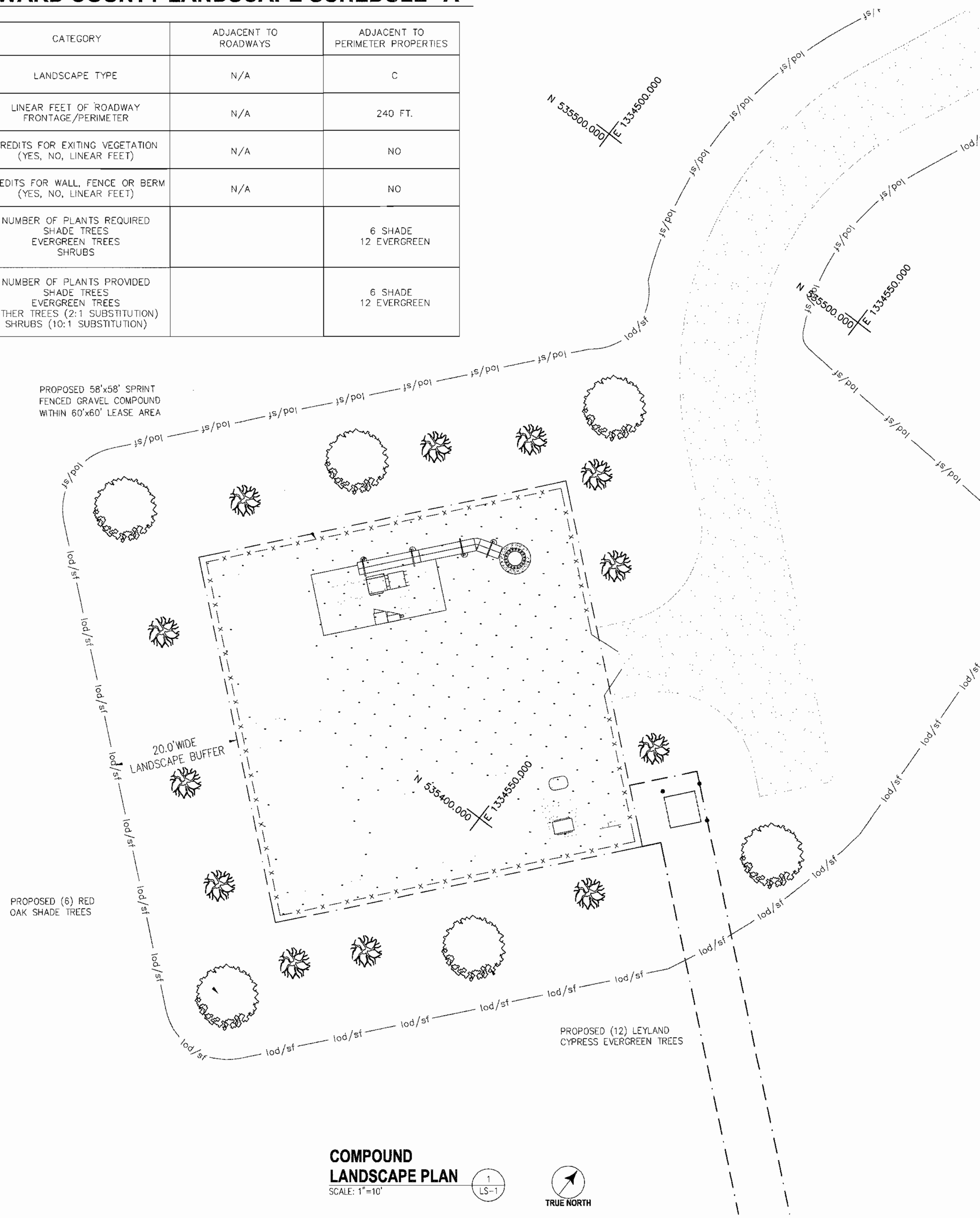
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- SURETY IN THE AMOUNT OF \$10,000 FOR 6 SHADE TREES SHALL BE POSTED WITH THE GRADING PERMIT IF A GRADING PERMIT IS REQUIRED FOR THIS SITE.
- AT THE TIME OF INSTALLMENT, ALL SHRUBS AND OTHER PLANTINGS HEREWITH LISTED AND APPROVED FOR THIS SITE, SHALL BE OF THE PROPER HEIGHT REQUIREMENTS IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATION OF REQUIRED PLANTING MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THIS APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO APPLICABLE PLANS AND CERTIFICATES.



**TYPICAL TREE PLANTING DETAIL**  
 SCALE: 1/2"=1'-0"

# HOWARD COUNTY LANDSCAPE SCHEDULE "A"

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	N/A	C
LINEAR FEET OF ROADWAY FRONTAGE/PERIMETER	N/A	240 FT.
CREDITS FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	N/A	NO
CREDITS FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET)	N/A	NO
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS		6 SHADE 12 EVERGREEN
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION)		6 SHADE 12 EVERGREEN



**COMPOUND LANDSCAPE PLAN**  
 SCALE: 1"=10'



### DEVELOPERS/BUILDERS CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

NAME: Marc Marzulli DATE: 7/2/04

### PLANT LIST

SYMBOL	NAME	SIZE	QUANTITY	COMMENTS
	RED OAK QUERCUS RUBRA	MIN 2 1/2' CALIPER	6	SEE PLAN
	LEYLAND CYPRESS	4'-6" TALL (MIN.)	12	PLANT 15'-0" O.C.

### APPROVALS

APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/2/04  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 7/2/04  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 7/2/04  
 DIRECTOR DATE



1575 Eye Street, N.W. Suite 350  
 WASHINGTON, D.C. 20005  
 PHONE: (202)408-0960  
 FAX: (202)408-0961

### REVISION BLOCK

DATE	DESCRIPTION	REV.
10-29-03	CONSTRUCTION REVIEW	
12-02-03	CONSTRUCTION	
12-17-03	SITE DEVELOPMENT PLAN	
03-17-04	COUNTY COMMENTS	
05-11-04	COUNTY COMMENTS	2
05-26-04	COUNTY COMMENTS	
6-16-04	SDP SIGNATURE SET	

SEAL:



APC REALTY AND EQUIPMENT CO., LLC  
 d/b/a  
 SPRINT PCS  
 CAPITAL DISTRICT

PROJECT NO: 1015.188  
 DESIGNER: R.S.  
 ENGINEER: M.M.

SCALE:  
 0 1/2 1  
 GRAPHIC SCALE IN INCHES

ROY A. ZIMMERMAN  
 WA54XC473C  
 8282 MURPHY ROAD  
 FULTON, MD 20759

TITLE:  
**LANDSCAPING PLAN**

12 OF 13

SHEET NUMBER:

LS-1

SDP-04-088



