



PROPOSED UNMANNED WIRELESS COMMUNICATION SITE

B719.4

BOARMAN PROPERTY

12833 HIGHLAND ROAD

HIGHLAND, MD 20777

Site Data

- CURRENT OWNER AND STREET ADDRESS: FLORENTINE J. BOARMAN
1214 ROUTE 216
FULTON, MD 20759-2402
- CONTRACT LEASEE/APPLICANT: AT&T WIRELESS SERVICES, INC.
1170 BELTSVILLE DRIVE
BELTSVILLE, MARYLAND 20705
- SITE AREA:
BUILDING FOOTPRINT: 3.52 ACRES
SITE OPEN SPACE: 0.21 ACRES (2.9% OF SITE)
DISTURBED AREA: 1.94 ACRES (55.4% OF SITE)
0.36 ACRES
- EXISTING USE: RESIDENTIAL
- SITE ADDRESS: 12833 HIGHLAND ROAD
HIGHLAND, MD 20777
- SITE DATA: DEED REFERENCE: 950/288
TAX ACCOUNT NUMBER: 05-367-725
ELECTION DISTRICT: 05
- PROPOSED USE: COMMUNICATION MONOPOLE, EQUIPMENT
MAINTENANCE SHELTER, FENCED-IN
COMPOUND AREA
- CURRENT ZONING: B-1

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
AT&T TOWER PARCEL 52	12833 HIGHLAND ROAD HIGHLAND, MD 20777

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Walter Dammann 7/26/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE

Chris Starnato 7/31/01
CHIEF, DIVISION OF LAND DEVELOPMENT & DATE

James A. Smith 8/1/01
DIRECTOR DATE

B-2.12 LANDSCAPE NOTE FOR SOLAR PANELS

Date	No.	Revision Description

DIRECTIONS TO SITE:
TAKE 95 NORTH TO EXIT 35 (ROUTE 216). TAKE 216 WEST FOR ABOUT 7 MILES INTO HIGHLAND. CROSS ROUTE 108 WHEREUPON 216 BECOMES HIGHLAND ROAD. SITE IS ON THE CORNER OF 216 AND 108, BEHIND THE HOUSE NEXT TO THE GROCERY STORE.

THE COURSES AND COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND COORDINATE SYSTEM NAD83 (1981) AND ARE BASED ON THE FOLLOWING NATIONAL SPATIAL REFERENCE SYSTEM CONTROL STATIONS, PROVIDED BY THE NATIONAL GEODETIC SURVEY:

DESIGNATION	NORTH (feet)	EAST (feet)	PID
225A	57255.509	139400.725	N/A
416A	544025.205	130927.496	N/A

ELEVATIONS SHOWN HEREON ARE REFERRED TO NAVD83 WITH LOCAL REFERENCE TO THE FOLLOWING NATIONAL SPATIAL REFERENCE SYSTEM BENCHMARK, PROVIDED BY THE NATIONAL GEODETIC SURVEY:

DESIGNATION	ELEVATION (feet)	PID
225A	485.039	N/A

NOTE: GPS WAS USED AS REFERENCE STATIONING FOR THIS SITE. THE ABOVE CONTROL STATIONS (WHICH DO NOT SHOW UP ON THE VICINITY MAP BELOW) ARE ADDED TO THE SHEET BUT ARE NOT THE ONES USED IN REFERENCING THE SITE.

BENCHMARK

DESCRIPTION
DMW TR106 BAR & CAP N 551048.019 E 1323889.583 ELEV. 508'

VICINITY MAP
SCALE: 1" = 2000'

SHT. NO.	DESCRIPTION
1 of 6	TITLE SHEET
2 of 6	SITE DEVELOPMENT PLAN
3 of 6	GRADING / EROSION AND SEDIMENT CONTROL / STORMWATER MANAGEMENT PLAN
4 of 6	EROSION AND SEDIMENT CONTROL DETAILS
5 of 6	STORMWATER MANAGEMENT SPECIFICATIONS
6 of 6	LANDSCAPE PLAN

APPLICABLE CODES:
BOCA, 1993;
USBC, 1993;
NEC, 1993

INDEX

AT&T CONSTRUCTION COORDINATOR:

Randall S. Lee
NAME
7-9-01
SIGNATURE DATE

AT&T'S APPROVAL:

Jaymie L. Hanna
NAME
7/3/01
SIGNATURE DATE

OWNER'S APPROVAL:

NAME

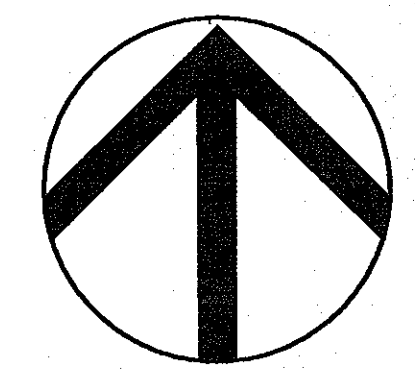
SIGNATURE DATE

THESE PLANS ARE THE SOLE PROPERTY OF:
AT&T WIRELESS SERVICES, INC.
1170 BELTSVILLE DRIVE
BELTSVILLE, MARYLAND 20705

APPROVAL

LANDSCAPING FOR THE PROPOSED SOLAR PANELS SHALL BE PROVIDED IN ACCORDANCE WITH THE LANDSCAPE MANUAL, SURVEY AND A GRADING PERMIT WILL NOT BE REQUIRED FOR 80 LOW SHRUB PLANTS PROPOSED AS LANDSCAPING ALONG THE ULTIMATE FRONT OF WAY OF HIGHLAND ROAD PER MARSHA McLAUGHLIN, DIRECTOR.

Jamie A. Smith 10/21/12
DATE
JAMES A. SMITH PE #12221 DATE
DIVERSIFIED PERMITS, INC.



7/6/01
Date

Professional Engr. No. 10551

Boarmann Property Unmanned Wireless Communication Site - B719.4

OWNER: Florentine Boarmann
12833 Highland Road
Highland, Maryland 20777

DEVELOPER: AT&T Wireless Services, Inc.
1170 Beltsville Drive
Beltsville, Maryland 20705

DMW
Darr-McCune-Walker, Inc.
200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3038
Fax 296-4705

A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

SUBDIVISION NAME	SECTION AREA	LOTPARCEL #
N/A (AT&T COMM TOWER)		52

PLAT OR MAP NO. 04-1-5-1
TAX MAP NO. 40
ELECT. DISTRICT 5
GENUS TRACT 6051.01
WATER CODE
SEWER CODE

TITLE: Title Sheet

Des By MDMMRT	Scale As Shown	Proj. No. 96035
Drn By KMDMRT	Date 7/06/01	
Chk By SD	Approved	1 OF 6

Professional Engr. No. 10551

SDPO1-66

CINGULAR EQUIPMENT SHELTER

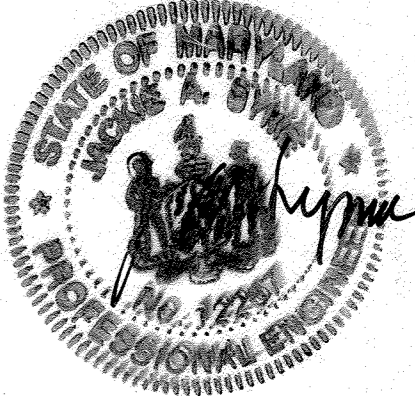
GENERAL NOTES

1. NO WATER OR SANITARY UTILITIES ARE REQUIRED FOR THE PROPOSED FACILITY.
2. THE TOPOGRAPHIC INFORMATION SHOWN HEREON IN THE AREA OF THE PROPOSED COMPOUND, IS THE RESULT OF A DTM FIELD SURVEY PERFORMED ON 6/19/2000. THE PROPERTY INFORMATION AND LOCATION HAVE BEEN COMPILED FROM DEEDS, PLATS AND OTHER SOURCES DEEMED RELIABLE. HOWEVER, THIS PLAN IS NOT THE RESULT OF A BOUNDARY SURVEY AND, THEREFORE, IS SUBJECT TO CHANGE.
3. THERE ARE NO NEW SIGNS PROPOSED FOR THIS FACILITY.
4. NO ADDITIONAL SITE, ANTENNA LIGHTS OR STROBOSCOPIC LIGHTS ARE PROPOSED FOR THIS FACILITY, UNLESS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION.
5. EXISTING UTILITY LOCATION INFORMATION SHOWN ON THESE PLANS IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. WHILE THE INFORMATION SHOWN HAS BEEN GATHERED FROM SURVEYS AND SOURCES DEEMED TO BE RELIABLE, THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION SHOWN IS NOT WARRANTED OR GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS OWN SATISFACTION.
6. THE CONTRACTOR IS TO NOTIFY M&E UTILITY (800) 257-7777 A MINIMUM OF 3 WORKING DAYS PRIOR TO ANY CONSTRUCTION OR EXCAVATION. THE CONTRACTOR IS TO ALSO NOTIFY A PRIVATE UTILITY CONTRACTOR FOR ALL ON-SITE UTILITY LOCATIONS.
7. THIS SITE IS NOT LOCATED WITHIN A 100 YEAR FLOOD PLAIN AS PER THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 240004-0032, REVISED DECEMBER 1, 1998.
8. AS PER SECTION 129.2.2.B, SETBACKS FROM RESIDENTIAL DISTRICTS FOR COMMUNICATION TOWERS IN THE B-1 DISTRICT SHALL BE A MINIMUM DISTANCE EQUAL TO ONE-HALF THE TOWER HEIGHT, INCLUDING ANTENNAS, MEASURED FROM GROUND LEVEL AND SETBACKS FROM PUBLIC STREET SHALL BE A MINIMUM DISTANCE EQUAL TO ONE-THIRD THE TOWER HEIGHT INCLUDING ANTENNAS MEASURED FROM GROUND LEVEL OR A MINIMUM OF 50', WHICHEVER IS GREATER. HIGHLAND ROAD IS A COUNTY ROAD.
 - FROM RESIDENTIAL DISTRICT: 150' (TOWER HEIGHT) + 80.0' (TOWER SETBACK)
 - FROM PUBLIC STREET RIGHT-OF-WAYS: 150' (TOWER HEIGHT) + 53.3' (TOWER SETBACK)
9. ENVIRONMENTAL PROTECTION AGENCY STANDARDS AND GUIDELINES RELATING TO RADIATION EMISSIONS SHALL BE MET AT ALL TIMES.
10. PARKING REQUIRED: 0 SPACES. THE PROPOSED SITE IMPROVEMENTS DO NOT BLOCK OR AFFECT ANY EXISTING PARKING SPACES OR ASSESSABLE WAYS.
11. NO ADDITIONAL SITE LIGHTING IS REQUIRED.
12. THERE WILL BE NO WASTE OR BY-PRODUCTS PRODUCED BY THIS PROPOSED FACILITY.
13. THE PROPOSED FACILITY WILL REQUIRE ONCE A MONTH MAINTENANCE AND WILL REQUIRE NO PERMANENT ON-SITE EMPLOYEES.
14. 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.
15. A COMMUNICATION TOWER THAT IS NO LONGER USED SHALL BE REMOVED FROM THE SITE WITHIN ONE-YEAR OF THE DATE THAT THE USE CEASES.
16. THERE ARE NO FORESTS, FLOODPLAINS, STREAMS, WETLANDS, OR BUFFERS ON SITE, AND THERE WILL BE NO IMPACTS TO SENSITIVE AREAS FROM THE PROPOSED IMPROVEMENTS.
17. EACH 500 YEAR AFTER THE FACILITY BECOMES OPERATIONAL, THE FACILITY OWNER SHALL CONDUCT A SAFETY INSPECTION IN ACCORDANCE WITH THE ELECTRONICS INDUSTRY ASSOCIATION STANDARD REFERENCE NUMBER 222E AS REFERRED 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.
18. FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.12022(b)(2)(i) OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL HAVE BEEN MET BY THE FILING OF A DECLARATION OF INTENT FOR THE CLEARING OF LESS THAN 40,000 SQ. FT. OF EXISTING FOREST.
19. A DRIVEWAY MAINTENANCE AGREEMENT FOR THE ACCESS DRIVE TO THE MONOPOLE COMPOUND HAS BEEN RECORDED IN THE LAND RECORDS OFFICE OF HOWARD COUNTY, MD, LIBER 950, FOLIO 228.
20. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS HIGHWAY STANDARDS AND SPECIFICATIONS IF APPLICABLE.
21. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410) 353-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
22. 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.
23. ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
24. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM HOWARD COUNTY MONUMENT NOS. 228A, AND 282A, WERE USED FOR THIS PROJECT.
25. A WATER QUALITY SWALE IS PROVIDED IN THIS DESIGN. THIS FACILITY WILL BE MAINTAINED BY AT&T WIRELESS SERVICES, INC.
26. NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.
27. THE COURSES AND COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND COORDINATE SYSTEM NAD83 (89) AND ARE BASED ON THE FOLLOWING NATIONAL SPATIAL REFERENCE SYSTEM CONTROL STATIONS, PROVIDED BY THE NATIONAL GEODETIC SURVEY:

DESIGNATION	EAST (GFT)	NORTH (GFT)	PID
228A	139400725	139400725	N/A
48A	139507456	139507456	N/A
DESIGNATION	EAST (GFT)	NORTH (GFT)	PID
282A	4950359	4950359	N/A

BENCHMARK

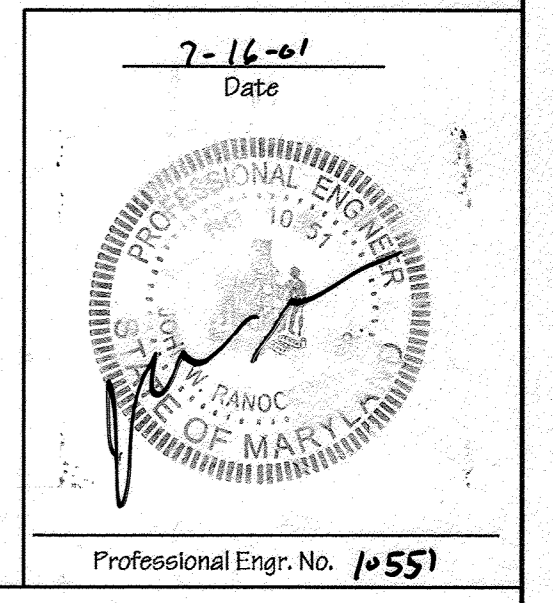
DESCRIPTION
 DMW TR106
 BAR & CAP
 N 551048.019
 E 1323889.583
 ELEV. 508'



LEGEND

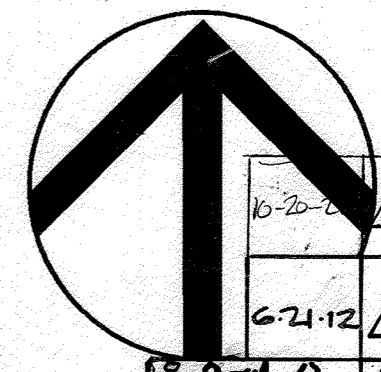
- 120 --- EXISTING CONTOURS
- EXISTING METAL FENCE
- - - - - PROPOSED METAL FENCE
- EX. WOOD POST AND RAIL FENCE
- LIMIT OF DISTURBANCE (L.O.D.)
- BM --- BENCH MARK
- EXISTING WOODS/TREE LINE
- RR-DEO --- ZONING LINE DESIGNATION
- EX. PROPERTY LINE

Jaicho Adyeme 10/2/12
 JAMES A. STINE, P.E. #12267
 CIVIL ENGINEER, INC.



NOTE: FOR ZONING, SOLAR PANELS ARE PERMITTED AS ACCESSORY USE FOR PARCEL 215 ON PARCEL 52. IN THE EVENT PARCEL 15 SOLD, PANELS MUST BE REMOVED. (SEE OTHER LETTER ON FILE.)

ATC Tower Services, LLC
 REV 10-20-22



- 10-20-22 REMOVE EXISTING CINGULAR SHELTER + ADD GENERATOR + H-FRAME FOR BACKUP POWER
- 6-21-12 ADD (7) ROWS SOLAR PANELS "ARRAYS"! CLEARING 4,250 SQ FT OF TREES
- 10-20-22 Add Cingular Shelter + Antennas at 120' height onto ex. monopole

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

DATE	7/26/01
DATE	7/31/01
DATE	8/16/01
DATE	1-9-10
DATE	10-31-01
DATE	12-19-01

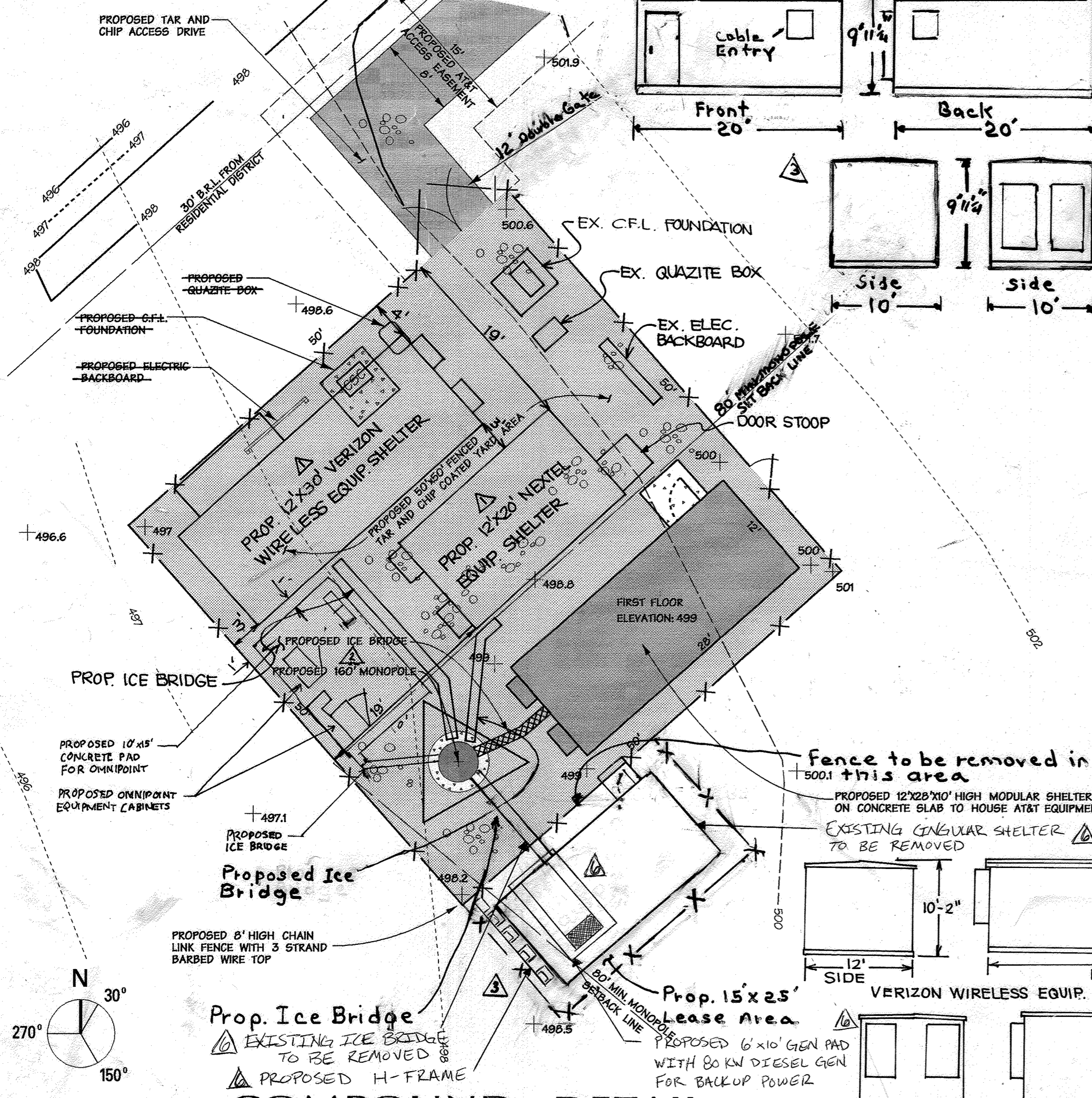
Date	No.	Revision Description
1-9-10	1	Add 9' x 14' Covered Patch to Rear of Ex. Dwelling
10-31-01	2	PROP. NEXTEL & VERIZON WIRELESS EQUIP. SHELTER AND TO ADD NEXTEL ANTENNA AT 90' HEIGHT AND VERIZON ANTENNA AT 150' HEIGHT ONTO THE EXISTING MONOPOLE.
12-19-01	3	ADD OMNIPONT PAD WITH 2 EQUIPMENT CABINETS AND ANTENNAS AT 140' HEIGHT

AT&T
Boorman Property Unmanned Wireless Communication Site - B719.4

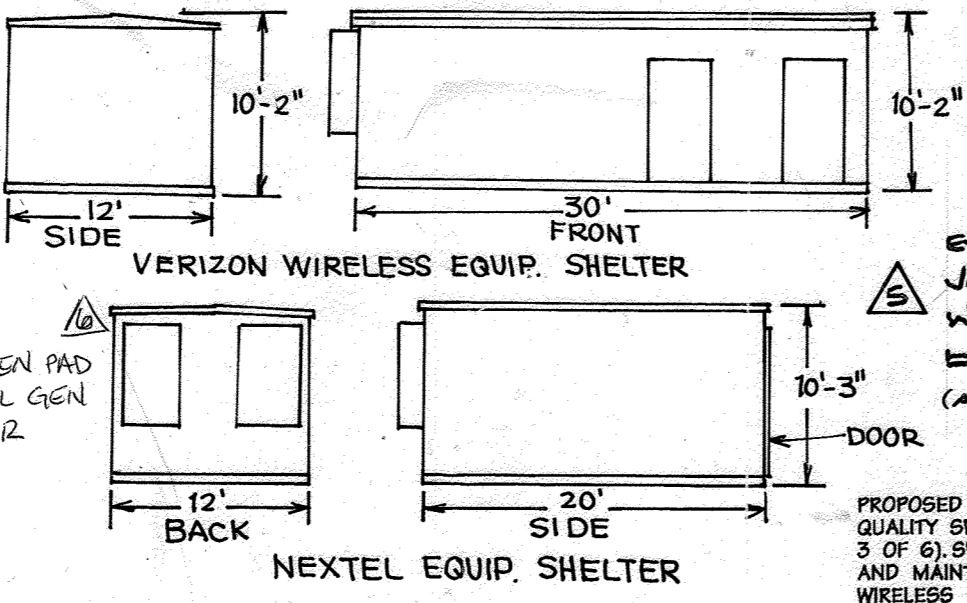
OWNER: Florentine Boorman, 12833 Highland Road, Highland, Maryland 21777
 DEVELOPER: AT&T Wireless Services, Inc., 1710 Bettelville Drive, Beltsville, Maryland 21075

DMW
 Draft McCune-Walker, Inc., 309 East Pennsylvania Avenue, Towson, Maryland 21286, (410) 296-3333, Fax 296-4706
 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

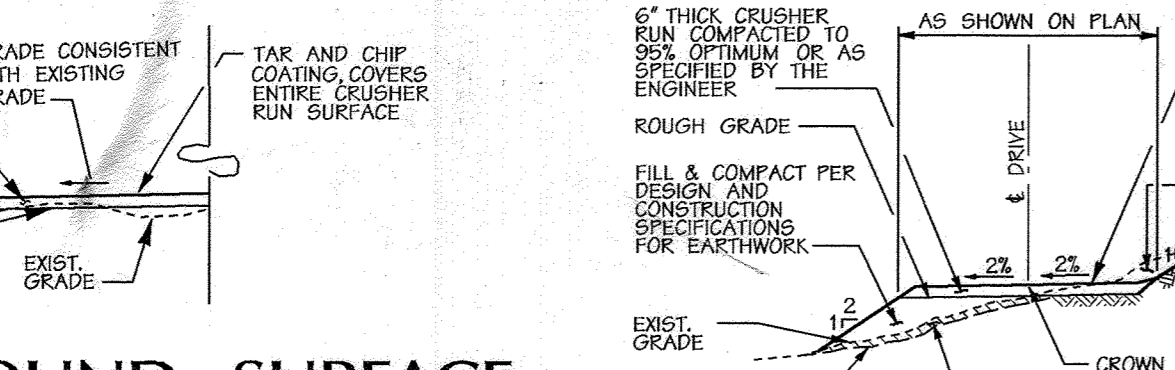
SUBDIVISION NAME	N/A, L&T&T COMM TOWER	SECTION/AREA	LOT/PARCEL #	52
PLAT OR LP	N/A	BLOCK & ZONE	TAXING MAP NO.	6051.01
WATER CODE	04	SEWER CODE	DISTRICT TRACT	
TITLE: Site Development Plan				
Des By	MDMMRT	Scale	As Shown	Proj. No. 96035.IH
Dwn By	KMMRT	Date	7-16-01	2 OF 6
Chk By		Approved		



COMPOUND DETAIL

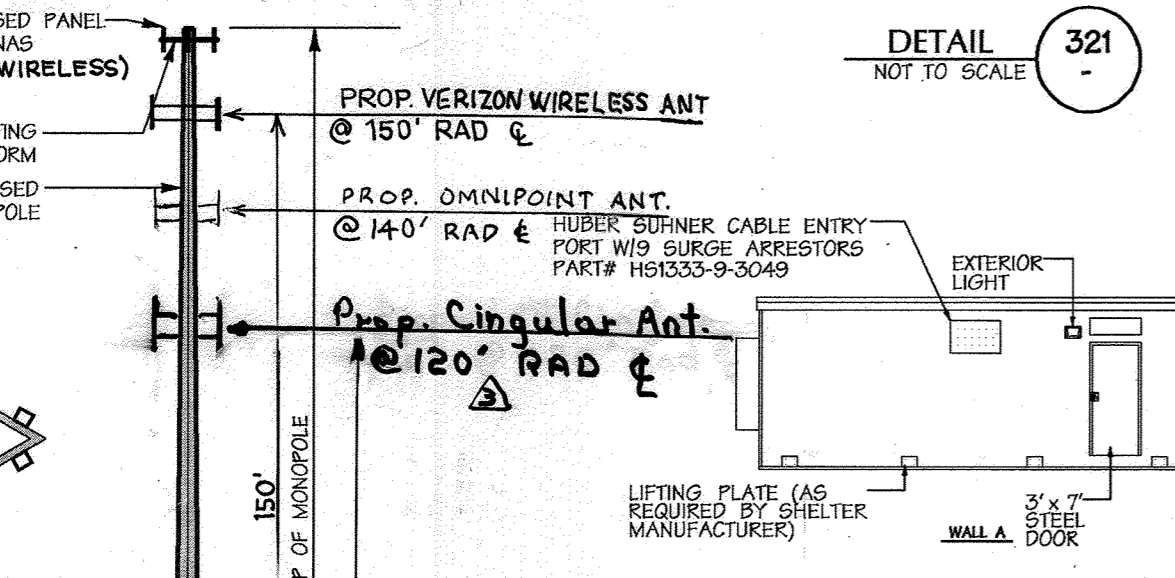


SHELTER ELEVATION NTS



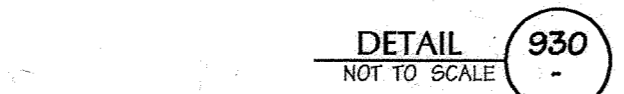
GRAVEL COMPOUND SURFACE

GRAVEL DRIVE

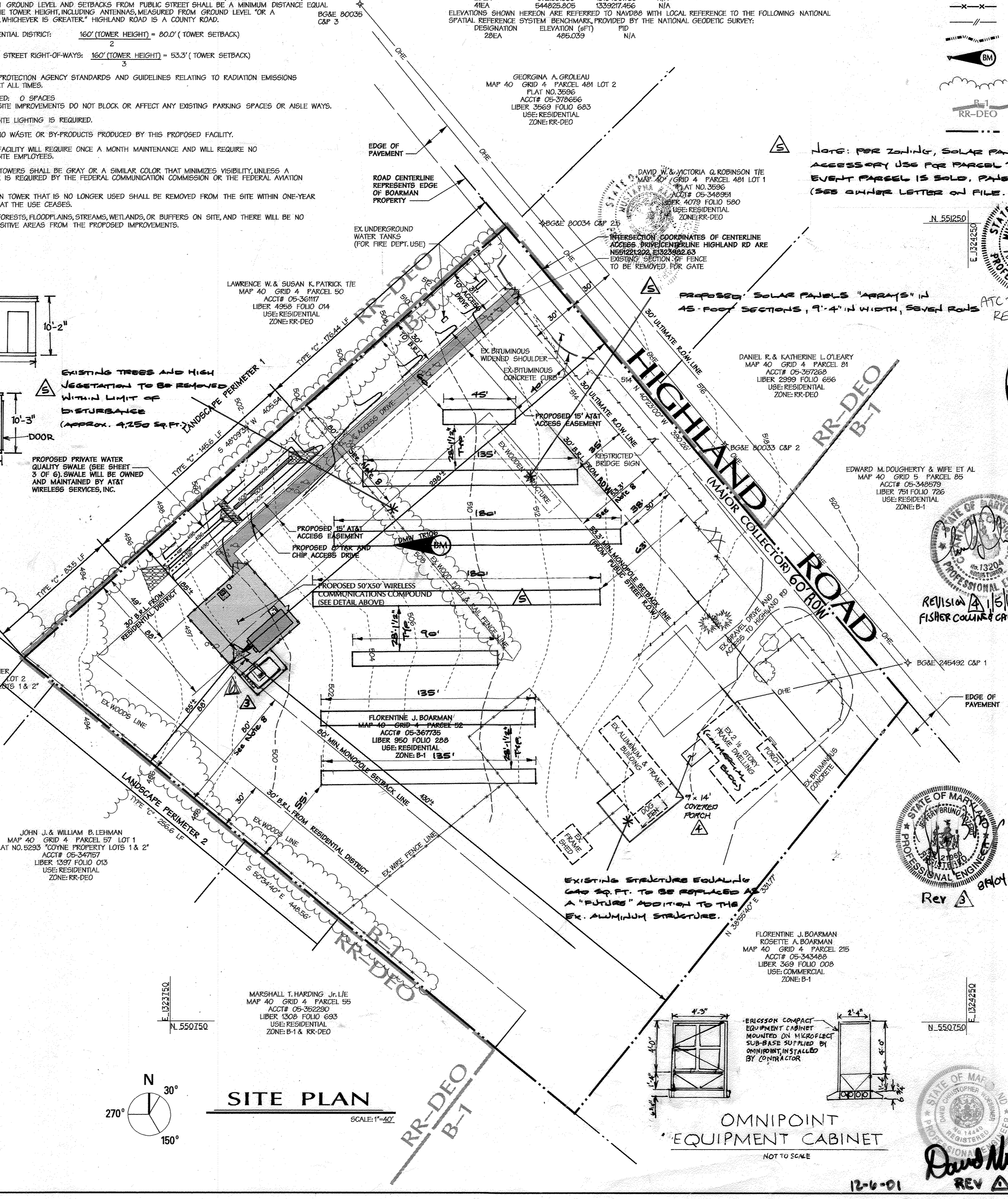


MONOPOLE ELEVATION

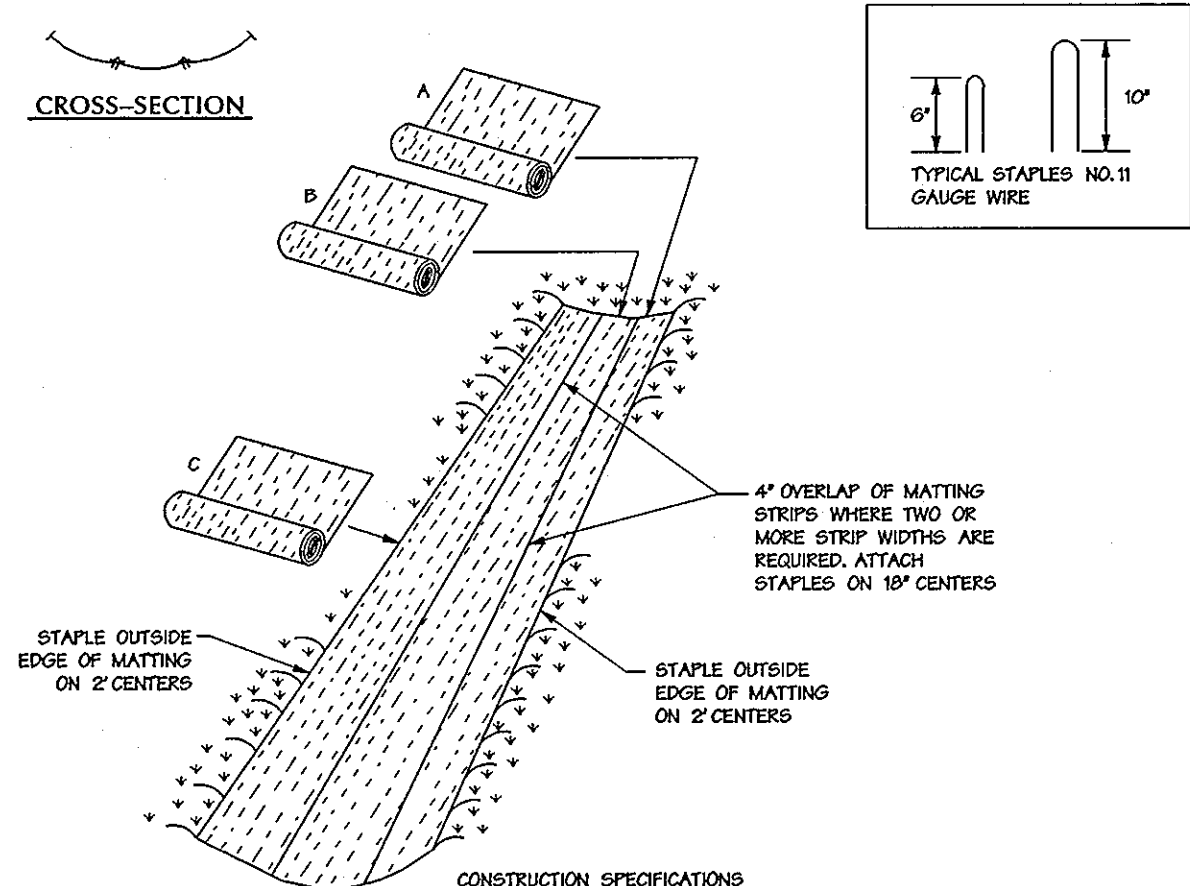
AT&T WIRELESS 11'5" x 28' SHELTER ELEVATION



SITE PLAN

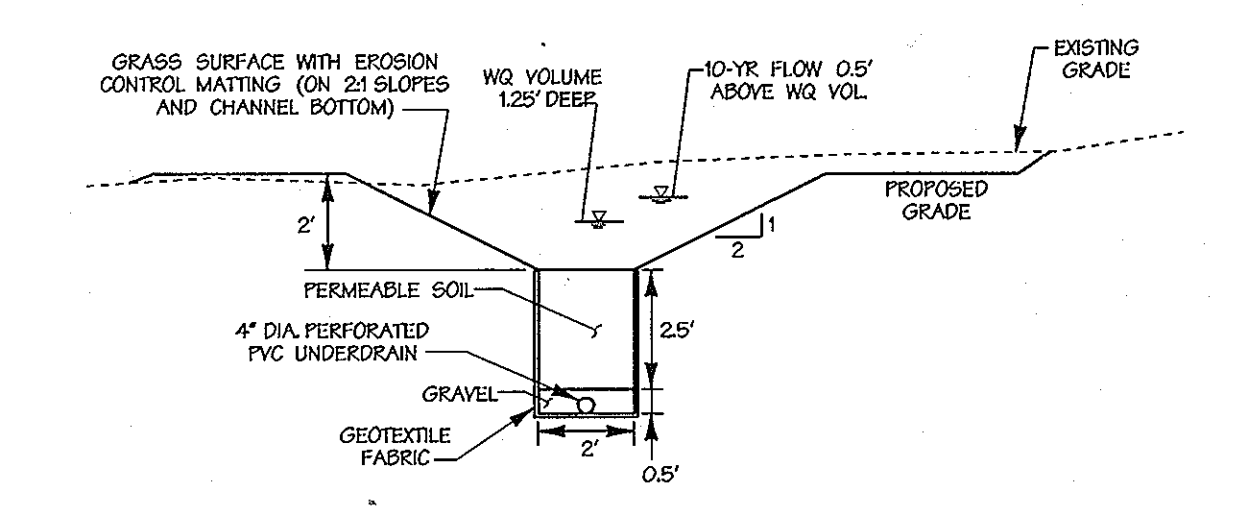


David H. Boorman
 REV 12-6-01



- CONSTRUCTION SPECIFICATIONS**
1. KEY-IN THE MATTING BY PLACING THE TOP ENDS OF THE MATTING IN A NARROW TRENCH 6" IN DEPTH. BACKFILL THE TRENCH AND TAMP FIRMLY TO CONFORM TO THE CHANNEL CROSS-SECTION. SECURE WITH A ROW OF STAPLES ABOUT 4" DOWN SLOPE FROM THE TRENCH SPACING BETWEEN STAPLES IN 6".
 2. STAPLE THE 4" OVERLAP IN THE CHANNEL CENTER USING AN 18" SPACING BETWEEN STAPLES.
 3. BEFORE STAPLING THE OUTER EDGES OF THE MATTING, MAKE SURE THE MATTING IS SMOOTH AND IN FIRM CONTACT WITH THE SOIL.
 4. STAPLES SHALL BE PLACED 5" APART WITH 4 ROWS FOR EACH STRIP, 2 OUTER ROWS, AND 2 ALTERNATING ROWS DOWN THE CENTER.
 5. WHERE ONE ROLL OF MATTING ENDS AND ANOTHER BEGINS, THE END OF THE TOP STRIP SHALL OVERLAP THE UPPER END OF THE LOWER STRIP BY 4" SHIP-LAP FASHION. REINFORCE THE OVERLAP WITH A DOUBLE ROW OF STAPLES SPACED 6" APART IN A STAGGERED PATTERN ON EITHER SIDE.
 6. THE DISCHARGE END OF THE MATTING LINES SHOULD BE SIMILARLY SECURED WITH 2 DOUBLE ROWS OF STAPLES.
- NOTE: IF FLOW WILL ENTER FROM THE EDGE OF THE MATTING THEN THE AREA EFFECTED BY THE FLOW MUST BE KEYED-IN.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE **Erosion Control Matting** Not To Scale

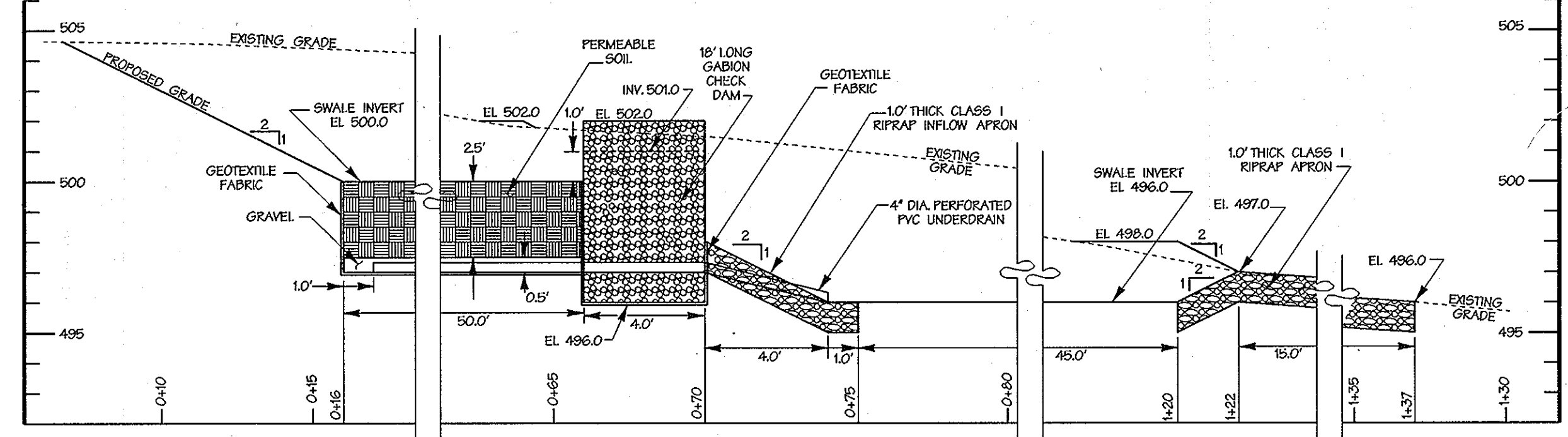


SWM DRY SWALE SEC. A-A SCALE: 1" = 4'

SWALE DEPTH (ft)	2.0
SWALE LENGTH (ft)	100.0
10-YEAR WATER DEPTH (ft)	1.75
WQV WATER DEPTH (ft)	1.25
10-YEAR DISCHARGE (cfs)	1.87
REV. REQUIRED (Ac-Ft)	0.0
REV. PROVIDED (Ac-Ft)	0.0
WQV REQUIRED (Ac-Ft)	0.017
WQV PROVIDED (Ac-Ft)	0.0126
CpV VOLUME REQUIRED (Ac-Ft)	0.0
CpV VOLUME PROVIDED (Ac-Ft)	0.0

NOTES: Rev RECHARGE VOLUME IS TREATED ON SITE BY "DISCONNECTION OF IMPERVIOUS AREA" CREDIT - SEE COMPUTATIONS DOCUMENT.
CpV CHANNEL PROTECTION VOLUME IS NOT REQUIRED FOR THIS PROJECT - SEE SWM COMPUTATIONS DOCUMENT.

SWM DRY SWALE SUMMARY TABLE



SWM DRY SWALE SEC. B-B SCALE: 1" = 4'

ENVIRONMENTAL SITE DESIGN VOLUME

B.A. TO BE EX. WOODLAND REMOVAL
(P.B.) (R.A.) (D.A.) IN SQ. FT. / 12 =
(1.0) (0.05) (4.250 SQ. FT.) / 12 =
ESQ. REQUIRED = 17.7 CU. FT.

STORAGE TO BE PROVIDED VIA EXISTING VEGETATIVE STRIP ALONG THE PERIMETER OF THE DISTURBED AREA. NO ADDITIONAL IMPERVIOUS SURFACES ARE PROPOSED POST DEVELOPMENT.

ESC/SWM GENERAL NOTES

1. THE ONLY TREES TO BE REMOVED FROM THE SITE SHALL BE AT THE LOCATION WHERE THE DRIVEWAY CROSSES THE HEDGE ROW, 150' FROM THE ENTRANCE.
2. AT&T WIRELESS SERVICES SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE DRY SWALE, KEEPING THE GRASS MOWED.
3. STORMWATER QUANTITY MANAGEMENT IS NOT PROVIDED ON THE SITE BECAUSE THE PROPOSED 1-YEAR DISCHARGE IS LESS THAN 2 CFS, THIS EXEMPTING THE SITE FROM MANAGEMENT PER 2000 MDE SWM REGULATIONS.

DEVELOPER'S CERTIFICATION:
"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 THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: *[Signature]* DATE: 7/17/01

ENGINEER'S CERTIFICATION:
"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."

Signature: *[Signature]* DATE: 7-17-01

Signature of Engineer: *[Signature]* DATE: 7-17-01

Signature: *[Signature]* DATE: 7/20/01

Signature: *[Signature]* DATE: 7/20/01

SEQUENCE OF CONSTRUCTION

SEQUENCE OF CONSTRUCTION	NO. OF DAYS
1. OBTAIN A GRADING PERMIT AND NOTIFY ALL APPROPRIATE AGENCIES 48 HOURS PRIOR TO BEGINNING ANY WORK.	14
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE.	1
3. CLEAR AND GRUB FOR INSTALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES.	3
4. CLEAR AND GRUB, GRADE THE SITE, INSTALL DRY SWALE, BEGIN CONSTRUCTION OF THE ACCESS DRIVE, COMPOUND AND ON-SITE STRUCTURES. STABILIZE SITE UPON COMPLETION OF CONSTRUCTION.	40
5. WITH THE APPROVAL OF THE ESC INSPECTOR, REMOVE ESC DEVICES. STABILIZE ALL DISTURBED AREAS CREATED DURING ESC DEVICE REMOVAL.	4

SWM DRY SWALE OPERATION MAINTENANCE SCHEDULE

THE DRY SWALE 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.

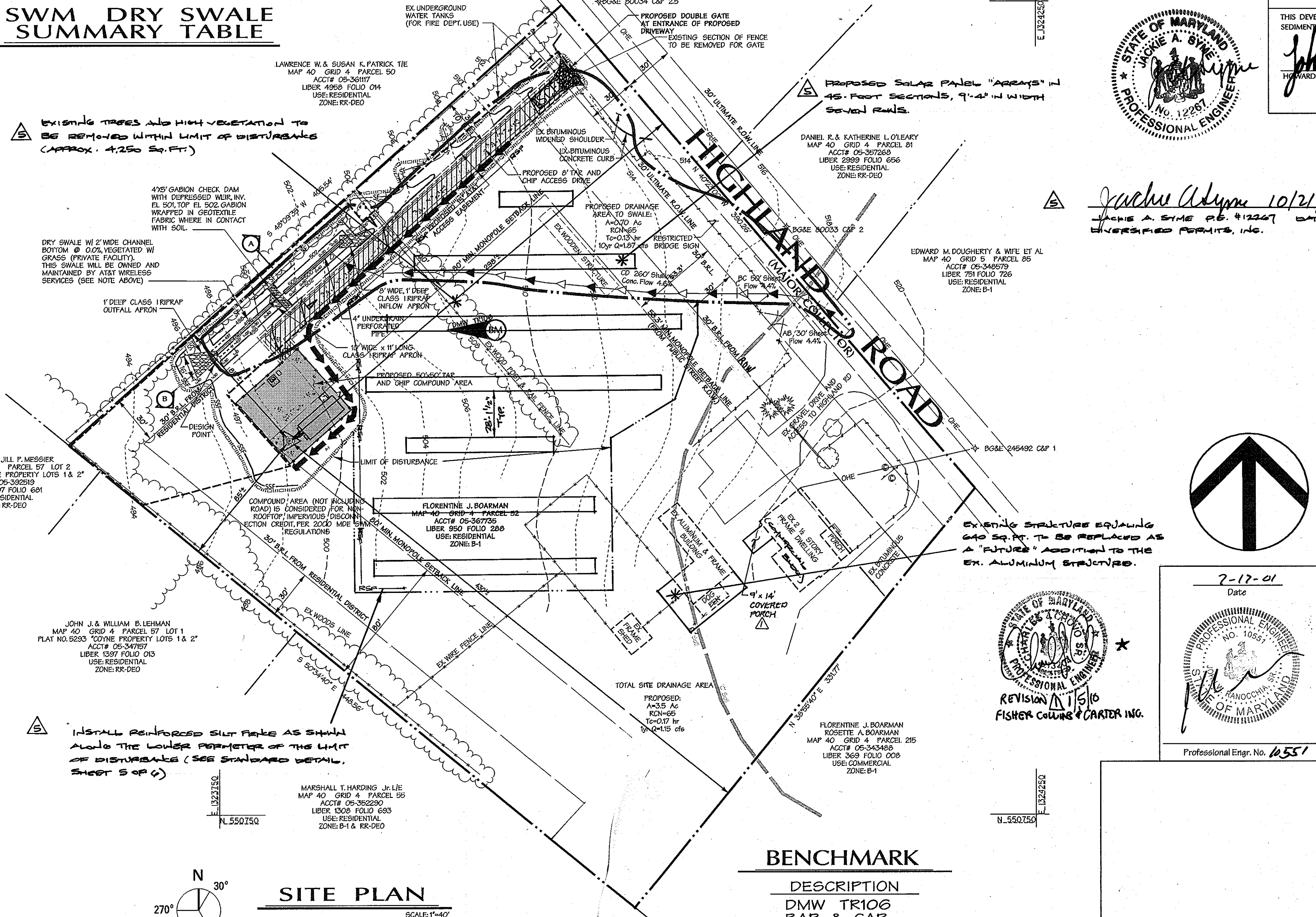
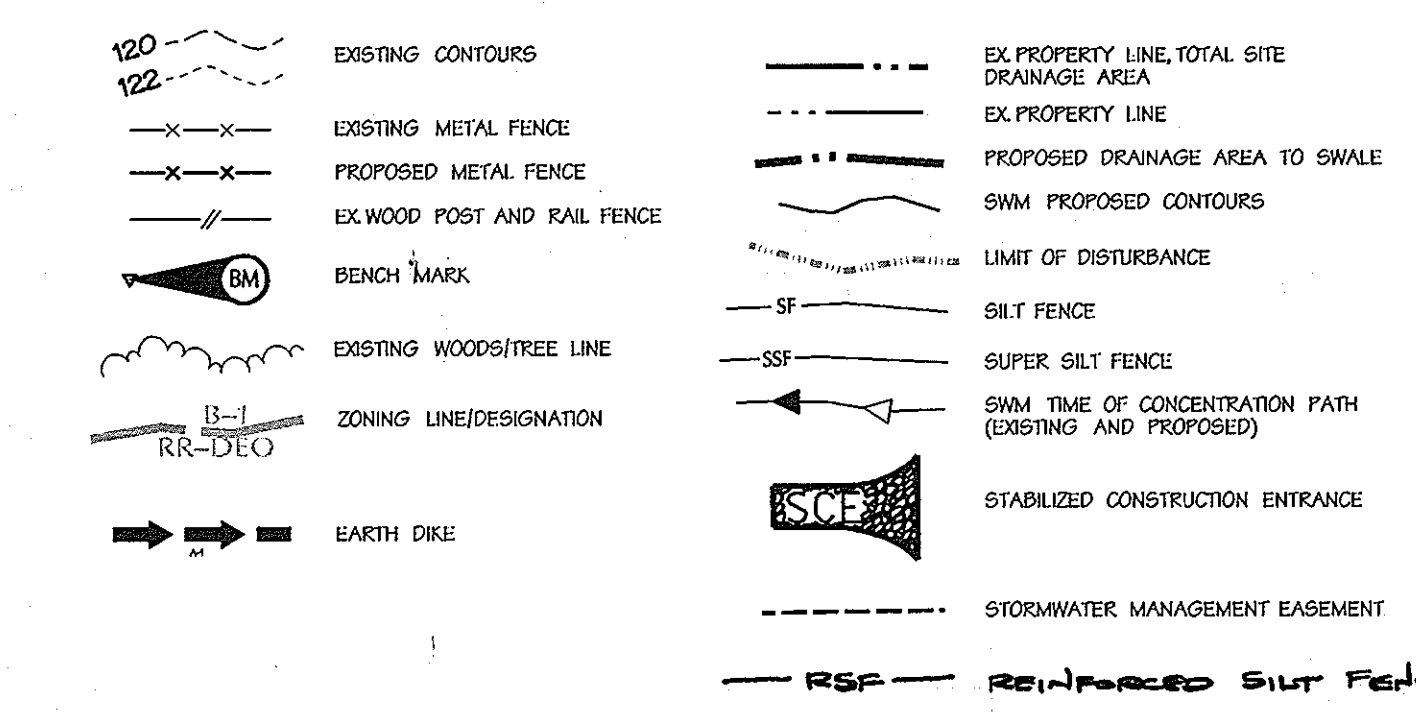
THE DRY SWALE OPEN CHANNEL SYSTEM SHALL BE MOVED AS NECESSARY DURING THE GROWING SEASON TO MAINTAIN A MAXIMUM GRASS HEIGHT OF 6 INCHES.

DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS NEEDED.

VISIBLE SIGNS OF EROSION IN THE DRY SWALE OPEN CHANNEL SYSTEM SHALL BE REPAIRED AS SOON AS THEY ARE NOTICED.

REMOVE SILT IN THE DRY SWALE OPEN CHANNEL SYSTEM WHEN IT EXCEEDS 25% OF THE ORIGINAL WQV.

LEGEND



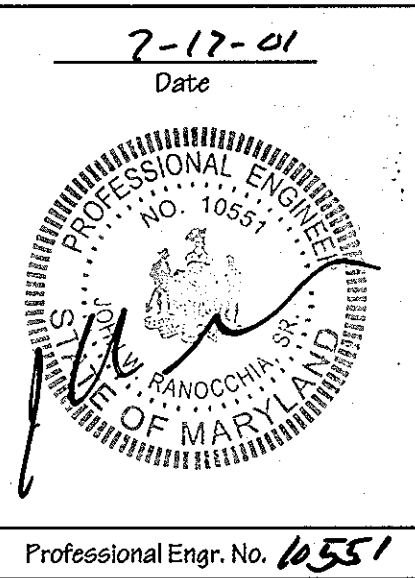
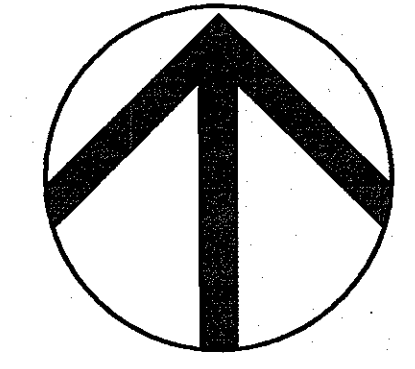
SITE PLAN SCALE: 1" = 40'

BENCHMARK

DESCRIPTION
DMW TR106
BAR & CAP
N 551048.019
E 1323889.583
ELEV. 508'



Signature: *[Signature]* DATE: 10/21/02
JACKIE A. SIME P.E. #12267 DMS
ENR/ES&P PERMITS, INC.



APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Signature: *[Signature]* DATE: 7/20/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Signature: *[Signature]* DATE: 7/23/01
CHIEF, DIVISION OF LAND DEVELOPMENT

Signature: *[Signature]* DATE: 8/1/01
DIRECTOR

Date	No.	Revision Description
6-21-02	1	ADD 7' x 14' SOLAR PANELS 'ARRAYS' CLEARING 4,250 sq. ft. of EX. TREES
NS/D	2	ADD 9' x 14' Covered Porch to Rear of Ex. Dwelling
1-9-70	3	

AT&T

Boarman Property Unmanned Wireless Communication Site - B719.4

OWNER: Florentine J. Boarman
12255 Highland Road
Highland, Maryland 20777

DEVELOPER: AT&T Wireless Services, Inc.
1170 Beltsville Drive
Beltsville, Maryland 20705

DMW

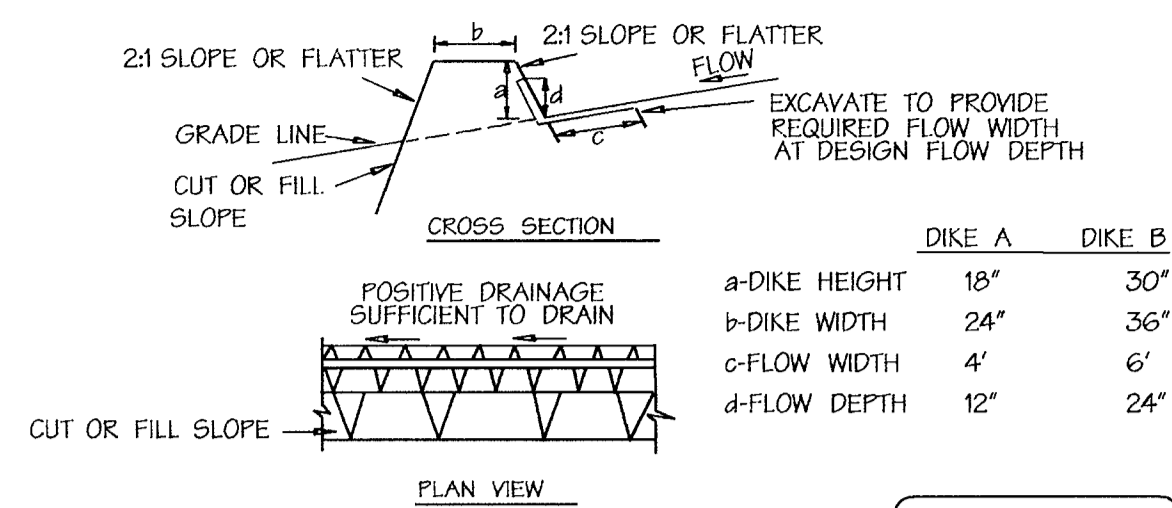
Druckman-Cook-Wallace, Inc.
200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax 296-4705

A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

SUBMISSION NAME: N/A - AT&T COMM TOWER
SECTION: N/A
BLOCK: 04
ZONE: B-1
TAXING MAP NO.: 10
ELECT. DISTRICT: 5
GENUS TRACT: 6051.01
WATER CODE: SEWER CODE:

Grading/Sediment & Erosion Control Stormwater Management Plan

Des By: MDM/MRT	Scale: As Shown	Proj. No: 96035
Drn By: KMD/MRT	Date: 3-14-01	
Chk By: [Signature]	Approved: [Signature]	3 OF 6



	DIKE A	DIKE B
a-DIKE HEIGHT	18"	30"
b-DIKE WIDTH	24"	36"
c-FLOW WIDTH	4'	6'
d-FLOW DEPTH	12'	24'

- Seed and cover with straw mulch.
- Seed and cover with Erosion Control Matting or line with sod.
- 4" - 7" stone or recycled concrete equivalent pressed into the soil 7" minimum.

Construction Specifications

- All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
- All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- Fill shall be compacted by earth moving equipment.
- All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
- Inspection and maintenance must be provided periodically and after each rain event.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE A - 1 - 6 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Earth Dike Not to Scale

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (315-1955).
- 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 THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1.
 - FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPPING DEVICES 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 SEEDINGS (SEC. 5), SODS (SEC. 6), 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 OR SITE	3.52 ACRES (INCLUDES ENTIRE PROPERTY)
AREA DISTURBED	0.38 ACRES
AREA TO BE ROOFED OR PAVED	0.11 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.27 ACRES
TOTAL CUT	140 CUBIC YARDS
TOTAL FILL	20 CUBIC YARDS
OFF-SITE WASTE/BORROW AREA LOCATION WASTE	= 120
- 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 CONTROLS 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 DESIGN 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 WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- TEMPORARY SMM IS PROVIDED BY THE SEDIMENT BASIN.

- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard 1" or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at the top and mid-section and shall meet the following requirements for Geotextile Class F:

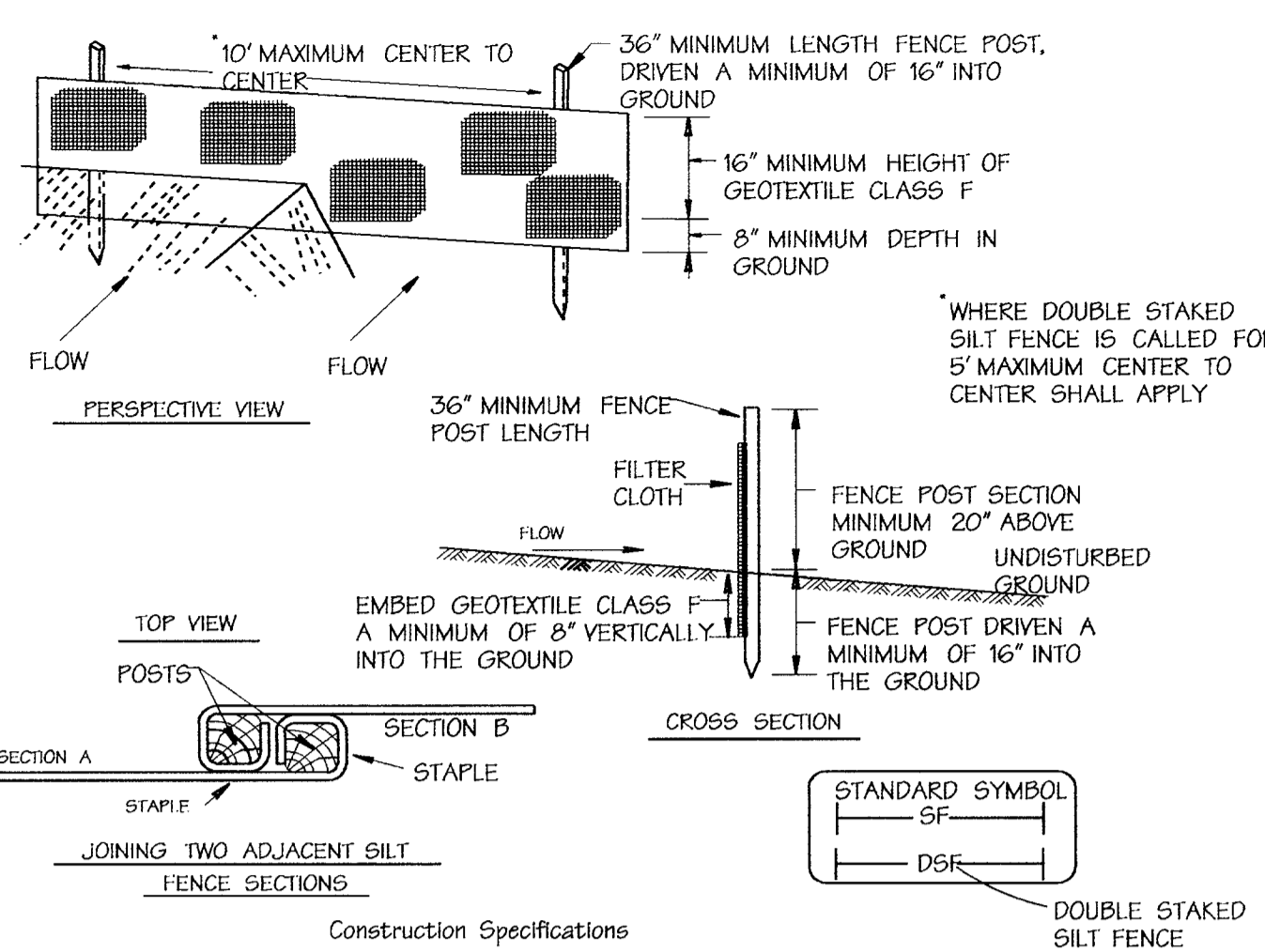
Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft/min (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SIZE RANGE	D 60	D 100	AASHTO	WEIGHT
NUMBER 57*	3/4" - 1 1/4"	1/4"	M-43	N/A
NUMBER 1	2" - 3"	2 3/8"	M-43	N/A
RIP-RAP**	4" - 7"	5 1/2"	N/A	N/A
CLASS I	N/A	9 1/2"	N/A	150lb max.
CLASS II	N/A	16"	N/A	700lb max.
CLASS III	N/A	23"	N/A	2000lb max.

- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric Class C (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE F - 17 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

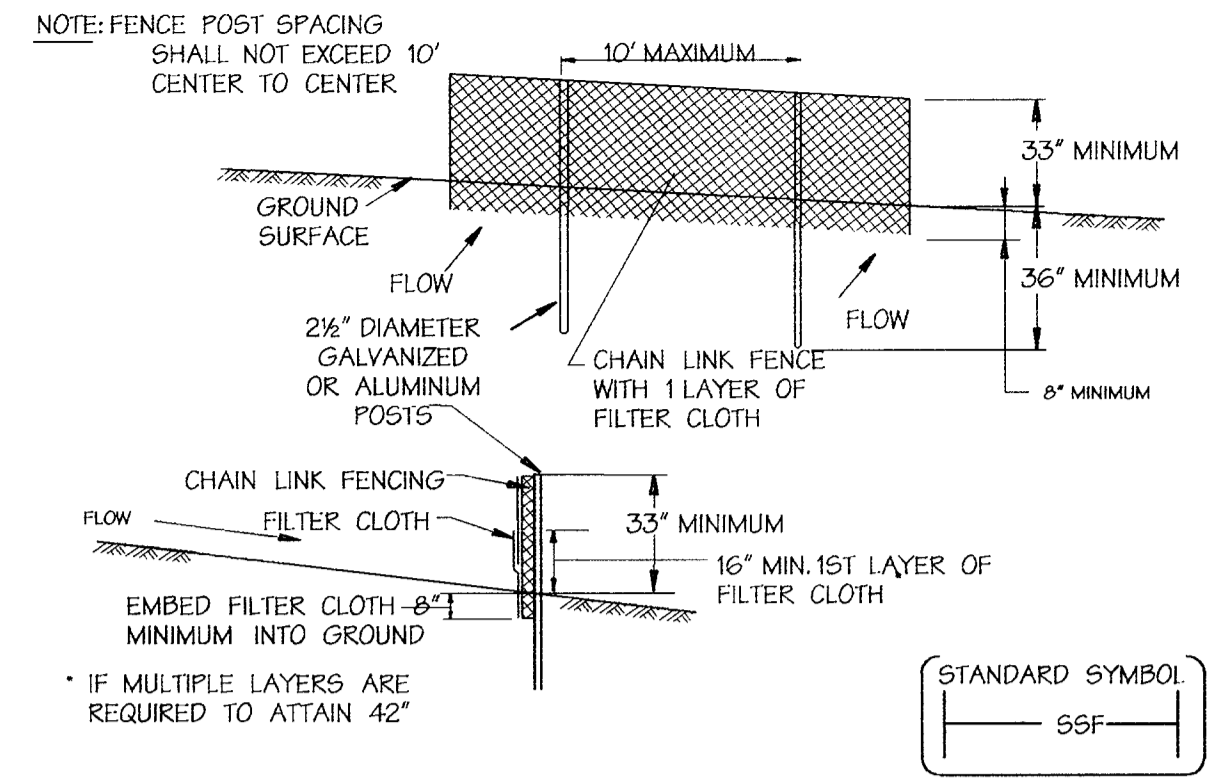
Stabilized Construction Entrance Not to Scale



- Fencing shall be 42 inches in height and constructed in accordance with the latest Maryland State Highway (SHA) Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
- The posts do not need to be set in concrete.
- Chain link fence shall be fastened securely to the fence posts with wire ties or staples. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. The chain link fencing shall be six (6) gauge or heavier.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buldups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE E - 15 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Silt Fence Not to Scale



- Fencing shall be 42 inches in height and constructed in accordance with the latest Maryland State Highway (SHA) Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
- The posts do not need to be set in concrete.
- Chain link fence shall be fastened securely to the fence posts with wire ties or staples. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. The chain link fencing shall be six (6) gauge or heavier.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buldups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE H - 26 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Super Silt Fence Not to Scale

PERMANENT SEEDING NOTES

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 LOOSENED.

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

- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 1000 LBS. PER 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. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.)
- 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 DISK 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 (14 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 UNKROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (8 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 RESEEDING.

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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

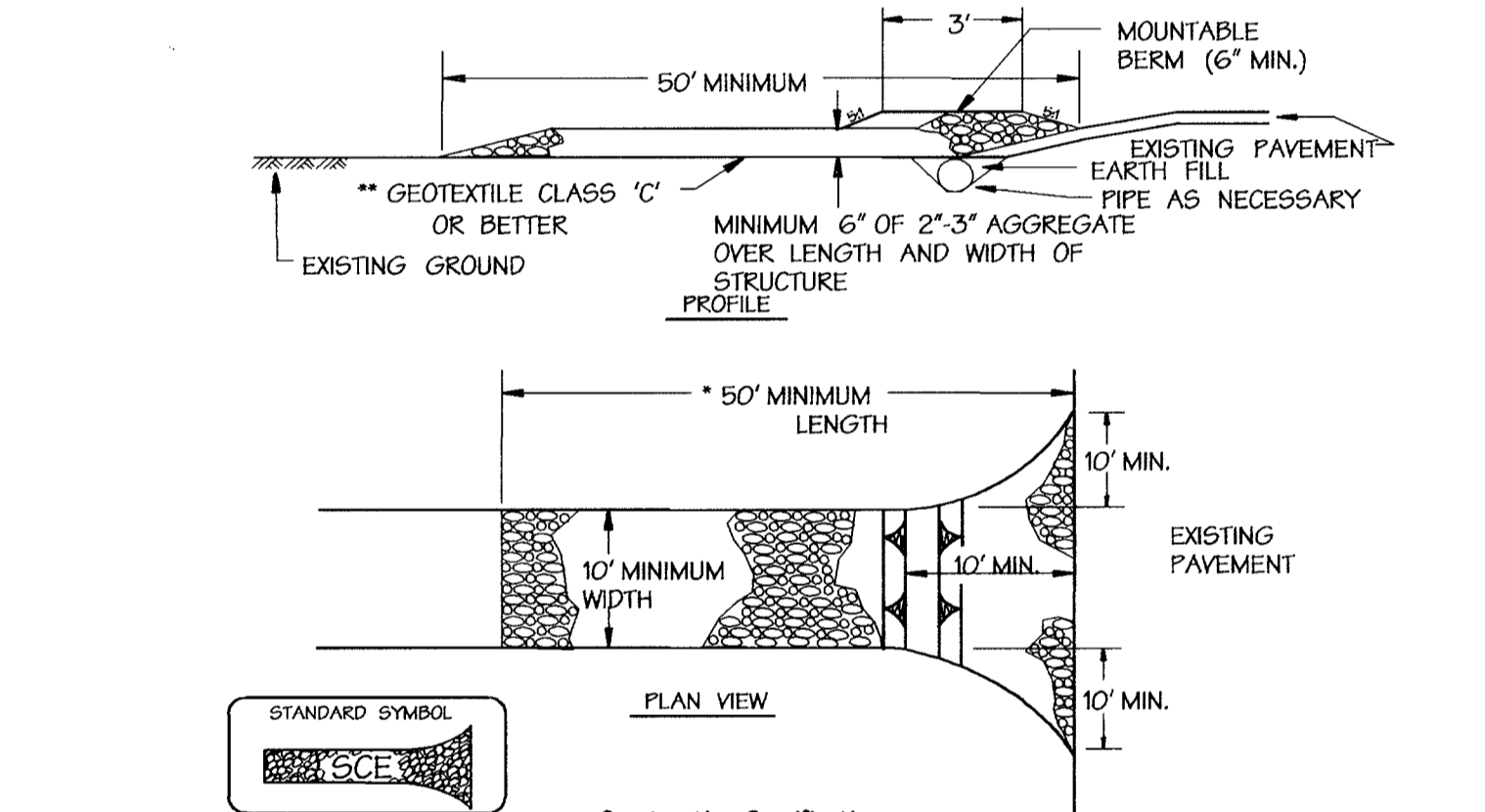
SOIL AMENDMENTS - APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 TO OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (32 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 UNKROTTED WEEP FREE 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

Temporary And Permanent Seeding Notes



- Length - minimum of 50' (*30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric Class C (filter cloth) shall be placed over the existing ground prior to placing stone. **The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE F - 17 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Stabilized Construction Entrance Not to Scale

Table 26 Stone Size

SIZE RANGE	D 60	D 100	AASHTO	WEIGHT
NUMBER 57*	3/4" - 1 1/4"	1/4"	M-43	N/A
NUMBER 1	2" - 3"	2 3/8"	M-43	N/A
RIP-RAP**	4" - 7"	5 1/2"	N/A	N/A
CLASS I	N/A	9 1/2"	N/A	150lb max.
CLASS II	N/A	16"	N/A	700lb max.
CLASS III	N/A	23"	N/A	2000lb max.

- * This classification is to be used on the inside face of stone outlets and check dams.
- ** This classification is to be used when ever small rip-rap is required. The State Highway Administration designation for this stone is Stone For Gallons (SOS/OL/04)

Table 27 Geotextile Fabrics

CLASS	APPARENT OPENING SIZE MM. MAX.	GRAB TENSILE STRENGTH LB. MIN.	BURST STRENGTH PSI. MIN.
A	0.30 **	250	500
B	0.60	200	320
C	0.30	200	320
D	0.60	90	145
E	0.30	90	145
F (SILT FENCE)	0.40-0.80*	90	190

* US Std. Stone CW-02215 ** 50 mm max. for Super Silt Fence

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE F - 17 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Geotextile Material Specifications Not to Scale

DEVELOPER'S CERTIFICATION:
"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 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: *[Signature]* DATE: 7/9/01
PRINT NAME BELOW: JANUICE L. HANNA

ENGINEER'S CERTIFICATION:
"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."

SIGNATURE OF ENGINEER: *[Signature]* DATE: 7-6-01
PRINT NAME BELOW: John W. Ranocchia, Jr.

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
[Signature] DATE: 7/12/01

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
[Signature] DATE: 7/12/01

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
[Signature] DATE: 7/26/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] DATE: 7/31/01
CHIEF, DIVISION OF LAND DEVELOPMENT
[Signature] DATE: 8/1/01

Date	No.	Revision Description



Boarman Property Unmanned Wireless Communication Site - B719.4

OWNER: Florentine Boarman, 12233 Highland Road, Highland, Maryland 20771
DEVELOPER: AT&T Wireless Services, Inc., 1710 Beltsville Drive, Beltsville, Maryland 20705



DATE: 7-6-01
DATE: 7-6-01

Sediment & Erosion Control Details

Des By	MRT	Scale	As Shown	Proj. No.	96035
Drn By	MRT	Date	7-06-01		
Chk By	Approved				4 OF 6

SDP01-66

STORMWATER MANAGEMENT DRY SWALE
GENERAL CONSTRUCTION SPECIFICATIONS

- GENERAL**
ALL STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY'S STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1980)
ALL REFERENCES TO ASTM AND AASHTO SPECIFICATIONS APPLY TO THE MOST RECENT VERSION.
- SITE PREPARATION**
AREAS DESIGNATED FOR BORROW AREAS AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL, ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED.
ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE GRASS SWALE AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE WHEN SPECIFIED. A SUFFICIENT QUANTITY OF TOPSOIL WILL BE STOCKPILED IN A SUITABLE LOCATION FOR USE ON THE FINISHED GRADE OF THE DRY SWALE AND OTHER SUITABLE LOCATIONS.
- EARLY FILL**
MATERIALS USED IN THE OUTER SHELL OF THE DRY SWALE MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION OF THE QUALITY REQUIRED TO PREVENT EROSION OF THE EMBANKMENT.
PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 6" INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL.
COMPACTION - THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TRUCK TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPACTOR PASSES OF A SHEETPILE ROLLER, RUBBER TIRE OR VIBRATOR ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE, YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT.
WHEN REQUIRED BY THE REVIEWING AGENCY THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 92% OF THE MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN +/- 2% OF THE OPTIMUM EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99 (STANDARD PROCTOR).
- STRUCTURE BACKFILL**
UNLESS OTHERWISE SPECIFIED, ALL STRUCTURE SHALL BE BACKFILLED WITH A MINIMUM OF 24" OF COMPACTED FILL OF 24" OR GREATER OVER THE PIPE.
- REMOVAL AND REPLACEMENT OF DEFECTIVE FILL**
FILL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITY OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED ACCEPTABLE RANGE OF MOISTURE CONTENT OR OTHERWISE NOT CONFORMING TO THE REQUIREMENTS OF THE SPECIFICATIONS SHALL BE REMOVED TO MEET THE REQUIREMENTS OR REMOVED AND REPLACED BY ACCEPTABLE FILL. THE BOTTOMS OF SUCH EXCAVATIONS SHALL BE FINISHED FLAT OR GENTLY CURVED, AND AT THE SIDES OF SUCH EXCAVATIONS THE ADJACENT SOUND FILL SHALL BE TRIMMED TO A SLOPE NOT STEEPER THAN 3 FEET HORIZONTALLY TO 1 FOOT VERTICALLY EXTENDING FROM THE BOTTOM OF THE EXCAVATION TO THE FILL SURFACE.
- PIPE CONDUITS**
ALL PIPES SHALL BE CIRCULAR IN CROSS SECTION. ALL PERFORATED PIPES SHALL HAVE A MINIMUM OF 3.31 SQUARE INCHES OF OPENING PER SQUARE FOOT OF PIPE SURFACE (OR 30 3/16" HOLES PER SQUARE FOOT). PERFORATIONS ARE TO BE UNIFORMLY SPACED AROUND THE FULL PERIPHERY OF THE PIPE. ANY HOLES BLOCKED OR PARTIALLY BLOCKED BY BRIMINGUS COATING SHALL BE OPENED PRIOR TO INSTALLATION.
- PLASTIC PIPE**
ALL OF THE FOLLOWING CRITERIA SHALL APPLY FOR PLASTIC PIPE:
1. MATERIALS - PVC PIPE SHALL BE PVC-1220 OR PVC-1220 CONFORMING TO ASTM D 1785 OR ASTM D 2688. CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) COUPLINGS AND FITTINGS SHALL CONFORM TO THE FOLLOWING: 4" HDPE PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M254 TYPE S.
2. BEDDING - THE PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. WHERE ROCKS OR SOFT, BOUNCY OR OTHER UNDESIRABLE SOIL IS ENCOUNTERED, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT.
3. BACKFILLING SHALL CONFORM TO "STRUCTURE BACKFILL".

- ROCK RIP-RAP**
ALL ROCK RIP-RAP SHALL MEET THE REQUIREMENTS OF THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 311.
GEOTEXTILES SHALL BE PLACED UNDER ALL RIP-RAP AND SHALL MEET THE REQUIREMENTS OF THE MARYLAND DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, SECTION 310.1 CLASS C.
THE RIP-RAP SHALL BE PLACED TO THE REQUIRED THICKNESS IN ONE OPERATION. THE ROCK SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL INSURE THE RIP-RAP IN PLACE SHALL BE REASONABLY HOMOGENEOUS WITH THE LARGER ROCKS UNIFORMLY DISTRIBUTED AND FINELY IN CONTACT ONE TO ANOTHER WITH THE SMALLER ROCKS FILLING THE VOIDS BETWEEN THE LARGER ROCKS.
- CASE OF WATER DURING CONSTRUCTION**
ALL WORK ON PERMANENT STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DICES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND STREAM IMPROVEMENTS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE PERMANENT WORKS. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM THE VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION AND OTHER PARTS OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE. WHATSOEVER OF THE FLOW OF WATER TO THE DRY SWALE AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE.
THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM OF REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS DURING THE PLACING AND COMPACTING OF MATERIAL IN REQUIRED EXCAVATIONS. THE WATER LEVEL AT THE LOCATIONS BEING REFINED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER TO SUMPS FROM WHICH THE WATER SHALL BE PUMPED.
- STABILIZATION**
ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPILL AREAS AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING IN ACCORDANCE WITH THE NATURAL RESOURCES CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR CRITICAL AREA PLANNING (MD-342) OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.
- EROSION AND SEDIMENT CONTROL**
CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED AND WATER AND AIR POLLUTION, UNDESIRABLE STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.
ALL DISTURBED AREAS SHALL BE CONTROLLED BY AN EROSION AND SEDIMENT CONTROL PLAN WHICH HAS BEEN APPROVED BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

- SEEDING, FERTILIZING AND MULCHING SHALL BE AS FOLLOWS:**
SEED MIX: 50% KENTUCKY BLUEGRASS
50% PENNSYLVANIA CRISPING RED FESCUE
100% STEEPER SLOPE
APPLIED AT A RATE OF 150 LBS. PER ACRE.
(OR)
SEED MIX: 100% PENNSYLVANIA CRISPING RED FESCUE
FERTILIZER: PENNSYLVANIA CRISPING RED FESCUE (10 LBS. PER ACRE)
KENTUCKY BLUEGRASS (10 LBS. PER ACRE)
PENNSYLVANIA CRISPING RED FESCUE (70 LBS. PER ACRE)
AUGURA HARD FESCUE (10 LBS. PER ACRE)
COMMON WHITE CLOVER (6 LBS. PER ACRE)
WINTER RYE (60 LBS. PER ACRE)
(OR)
70% PENNSYLVANIA CRISPING RED FESCUE
20% CHEMUNG CROWNVELD MODIFIED
400 LBS. PER ACRE 50-50-0 UREAFORM FERTILIZER AT TIME OF SEEDING.
OPTIMUM SEEDING DATES: MARCH 1 TO APRIL 30.
LIME: 2 TONS/ACRE DOLOMITIC LIMESTONE.
FERTILIZER: 600 LBS. PER ACRE 10-10-10 FERTILIZER BEFORE SEEDING.
400 LBS. PER ACRE 50-50-0 UREAFORM FERTILIZER AT TIME OF SEEDING.
MULCH: STRAW AT 4,000 LBS. PER ACRE.
ANCHORING: MULCHING TOOL OR WOOD CELLULOSE FIBER BINDER AT A NET DRY BINDER RATE OF 750 POUNDS PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER OR AT RATES RECOMMENDED BY THE MANUFACTURER.
- FILTER CLOTH**
ALL FILTER CLOTH SHALL CONFORM TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, OR THE LATEST EDITION.
- GABIONS**
ALL GABIONS SHALL BE PVC COATED WOVEN WIRE BASKETS. STONE SIZE SHALL BE 4 INCHES TO 7 INCHES.
- CONSTRUCTION INSPECTION BY DESIGNATED ENGINEERS**
THE CONSTRUCTION OF THE DRY SWALE AND CERTIFICATION THAT THE DRY SWALE HAS BEEN BUILT IN ACCORDANCE WITH THE PLANS SHALL BE UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER. THE ENGINEER SHALL BE NOTIFIED SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO MAKE THE NECESSARY ARRANGEMENTS TO BE MADE FOR (1) INSPECTION OF PIPE TRENCH AND BEDDING, (2) INSPECTION OF THE FURNISHABLE BACKFILL ABOVE THE PIPE AND BEDDING, (3) SUPERVISION OF COMPACTION TESTING AND (4) INSPECTION OF RIP-RAP OR GABION CONTROL STRUCTURES. THE ENGINEER SHALL DIRECT THE HANDLING OF WATER DURING CONSTRUCTION. MINOR CHANGES NOT AFFECTING THE INTEGRITY OF THE DAM IN ORDER TO COMPENSATE FOR UNUSUAL SOIL CONDITIONS AND THE REMOVAL AND REPLACEMENT OF DEFECTIVE FILL.

DEVELOPER'S CERTIFICATION:
"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 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 _____ DATE _____
PRINT NAME BELOW SIGNATURE _____

ENGINEER'S CERTIFICATION:
"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."

SIGNATURE OF ENGINEER _____ DATE _____
PRINT NAME BELOW SIGNATURE _____

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS _____

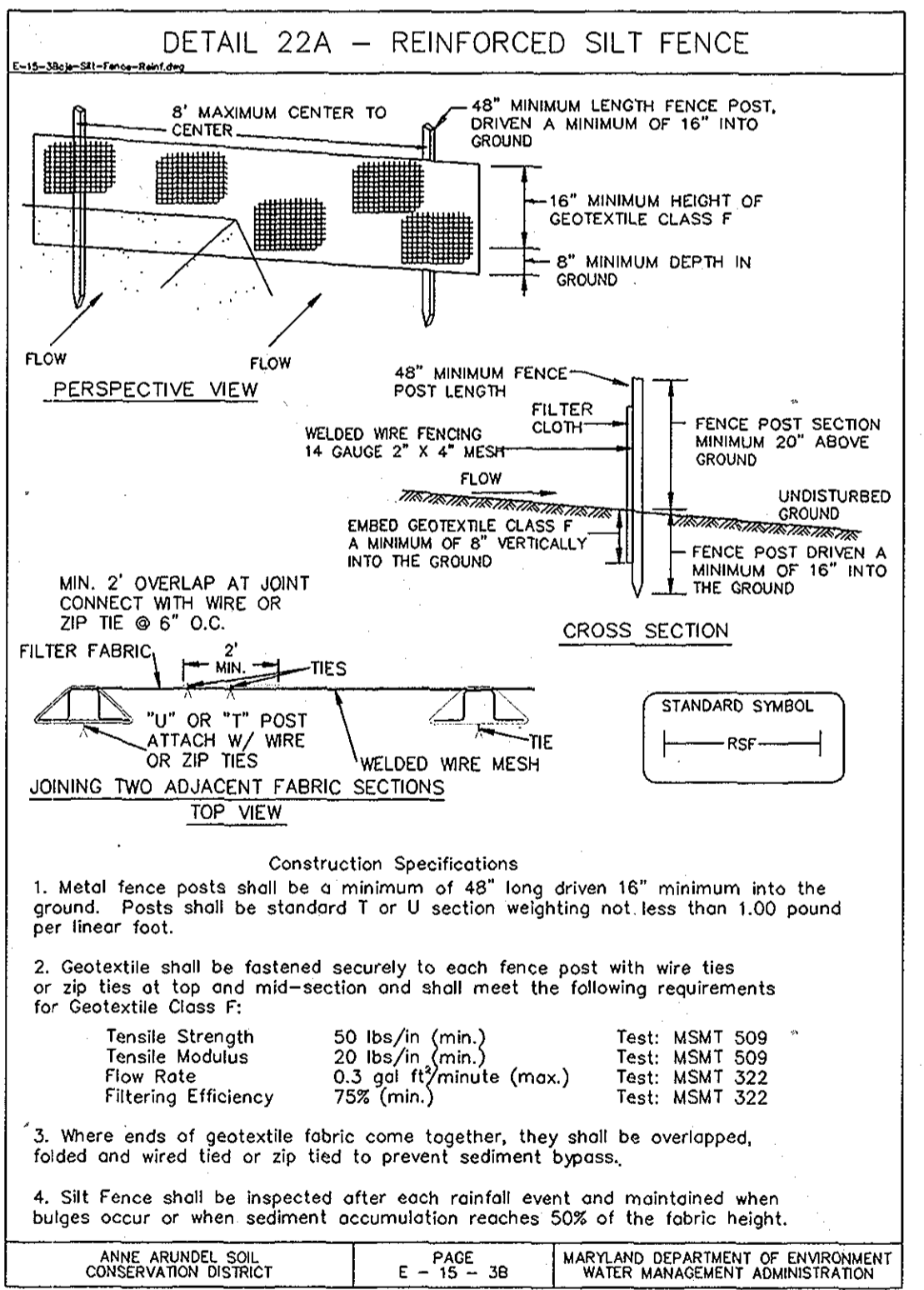
U.S. NATURAL RESOURCE CONSERVATION SERVICE _____ DATE _____

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

HOWARD S.C.D. _____ DATE _____



Jackie A. Syme 10/21/12
DATE
JACKIE A. SYME P.E. #12267
ENGINEERING PERMITS, INC.



APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	7/22/01	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	7/5/01	DATE
DIRECTOR	8/1/01	DATE

Boarman Property Unmanned Wireless Communication Site - B719.4

OWNER: Florentine Boarman, 12833 Highland Road, Highland, Maryland 21777

DEVELOPER: AT&T Wireless Services, Inc., 1710 Beltsville Drive, Beltsville, Maryland 20705

DMW
Dart McCune Walker, Inc.
300 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax: 296-4700

A Team of Land Planners, Engineers, Surveyors & Environmental Professionals

SUBDIVISION NAME: NIA / AT&T COMM. TOWER	SECTION AREA: TANGONE MAP 40	LOTPARCEL #	52
PLAT OR UP: CH	BLOCK: B-1	ELECT. DISTRICT: B	CENSUS TRACT: 6051.01
WATER CODE:	SEWER CODE:		

Stormwater Management Specifications

Des By: MRT	Scale: As Shown	Proj. No.: 96035
Dm By: MRT	Date: 7-06-01	
Chk By: Approved		5 OF 6

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES	
		PERIMETER 1 400 LF. OF LANDSCAPE TYPE 'C'	PERIMETER 2 257 LF. OF LANDSCAPE TYPE 'C'
CREDIT FOR EXISTING VEGETATION (DESCRIBE BELOW IF NEEDED)		N/A	N/A
CREDIT FOR EXISTING VEGETATION (DESCRIBE BELOW IF NEEDED)		N/A	N/A
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES		11 21	7 13
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION) (DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)		4 4 24	6 5 12

*NOTE: 4 FLOWERING TREES AND 10 EVERGREEN TREES ARE SUBSTITUTED FOR 7 SHADE TREES
ONE FLOWERING TREE IS RELAYED TO PERIMETER 2 AND 7 EVERGREEN TREES ARE RELAYED TO SCREEN THE TOWER FACE.
**NOTE: 2 FLOWERING TREES ARE SUBSTITUTED FOR 1 SHADE TREE AND 1 FLOWERING TREE IS SUBSTITUTED FOR ONE EVERGREEN TREE.

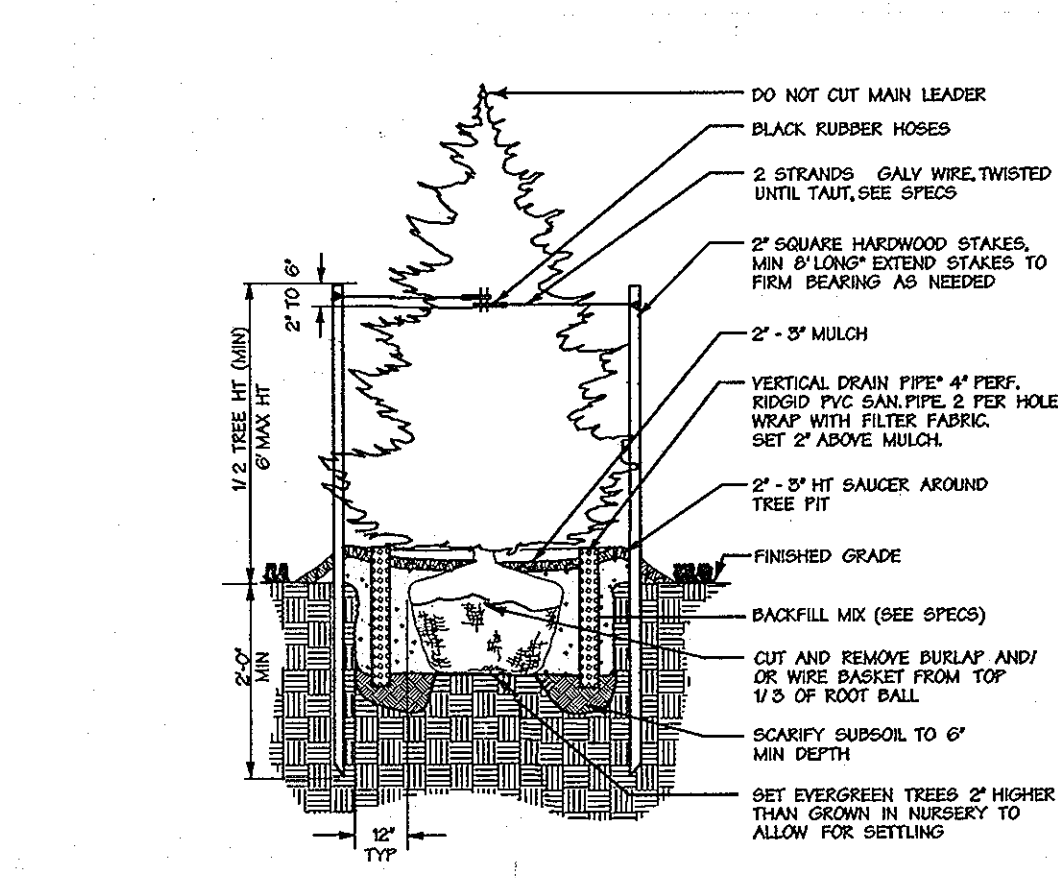
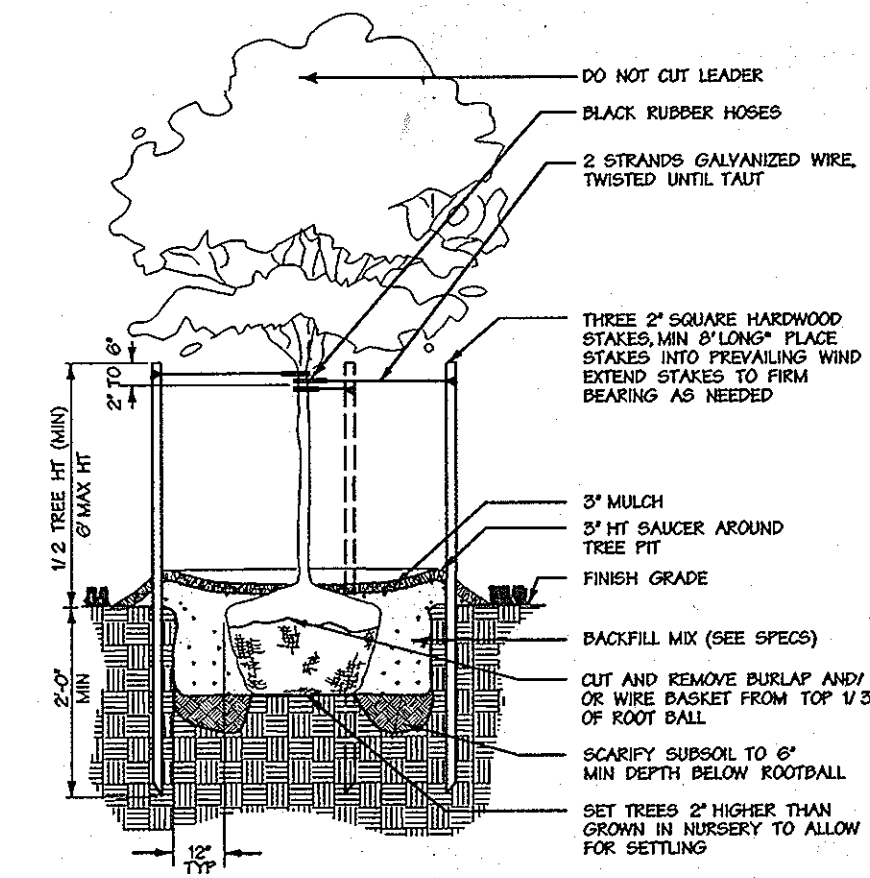
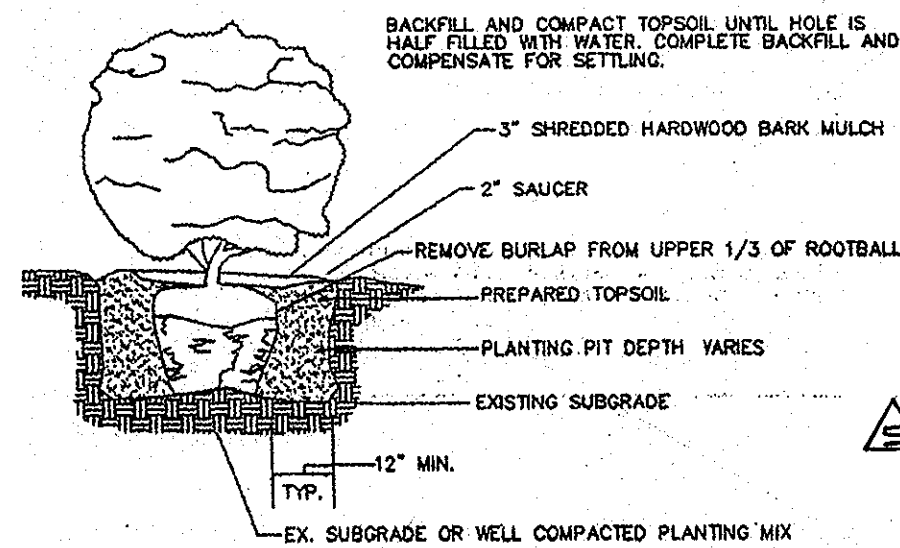
General Planting Notes

- All plant material to meet A.A.N. Standards.
- Landscape Contractor to follow landscape specification guidelines for Baltimore Washington Metro area approved by LCAMW.
- No substitutions to be made without consent of Landscape Architect or Owner.
- All beds to be topped with three inches of hardwood mulch.
- Landscape Contractor to verify location of utilities with Owner before planting.
- Landscape Architect/Owner shall select, verify and/or approve all plant material. At Owner's discretion, specimen and other plant material will be selected.
- Landscape Contractor shall coordinate plant bed filling operations and plant material installation with General Contractor and Utilities Contractor. At the time of final inspection with acceptance, all electric, water, drainage, and fountain utilities, as well as all plant materials, shall remain undamaged. Likewise, Landscape Contractor and Utilities Contractor shall coordinate efforts to ensure that surface utilities are at the proper elevation relative to final grades.
- Contractor shall notify Miss Utility 72 hours prior to construction.
- The owner, tenant, and/or their agents shall be responsible for maintenance of the required landscaping, including both plant materials and berms, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.
- This plan has been prepared in accordance with the provisions of Section 16.124 of the Ho.Co. code per the new town alternative compliance method. Financial surety for the required landscaping in the amount of \$13,050.00 must be posted as part of the developer's agreement. (24 shade, 39 evergreen)
- Developer's/Builder's 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: *[Signature]* DATE: 7/17/01

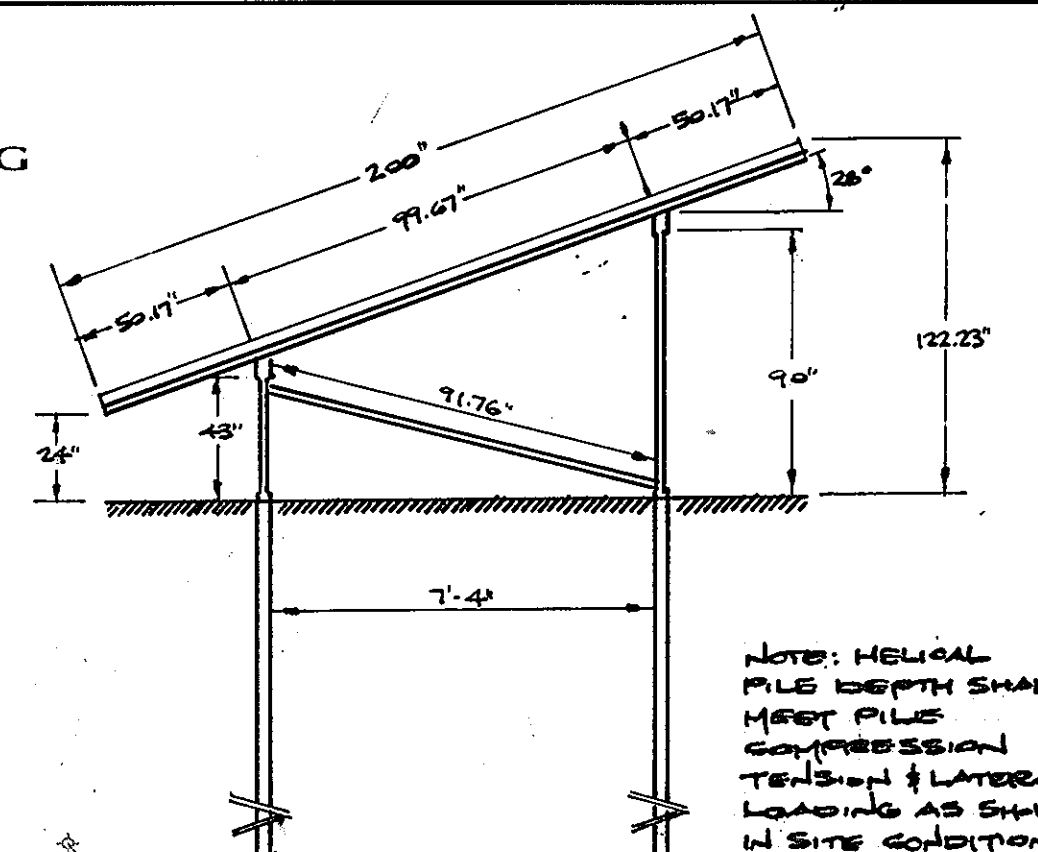
- At the time of installment, all shrubs (if applicable) and other plantings herewith listed and approved for this site shall be of the proper height requirements and sizes in accordance with the Howard County Landscape Manual. In addition, no other substitutions or relocation of required plantings may 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 delay in the release of landscape surety until such time as all required materials are planted and/or revisions are made to the applicable plans and certificates.



SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING

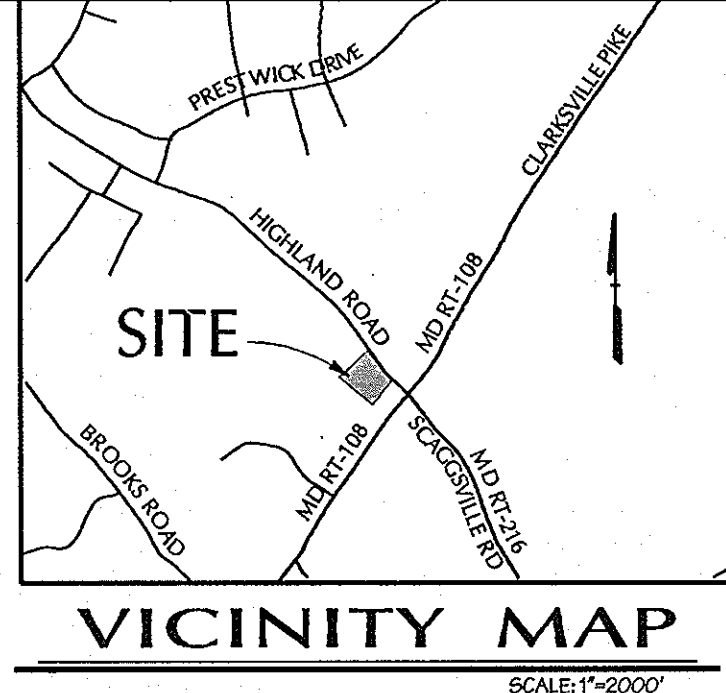
LINEAR FEET OF PERIMETER	177 LF - TYPE 'B'	147 LF - TYPE 'C'
	NUMBER OF TREES REQUIRED 1 SHADE TREE @ 50 LF 1 EVERGREEN TREE @ 40 LF.	4
CREDIT FOR EXISTING VEGETATION	2 EX. SHADE TREES	
CREDIT FOR OTHER VEGETATION	147 LF - TYPE 'C'	
NUMBER OF TREES PROVIDED SHADE TREES EVERGREEN TREES OTHER TREES (2:1 SUBSTITUTION)	2 5 0	

* SHOWN AS PERIMETER LANDSCAPING



LEGEND

- EXISTING CONTOURS
- EXISTING METAL FENCE
- PROPOSED METAL FENCE
- EX. WOOD POST AND RAIL FENCE
- LIMIT OF DISTURBANCE (L.O.D.)
- BENCH MARK
- EXISTING WOODS/TREE LINE
- ZONING LINE/DESIGNATION
- EX. PROPERTY LINE
- PROP. SWM EASEMENT
- SHADE TREE
- FLOWERING TREE
- EVERGREEN TREE
- SHRUB



SCHEDULE A PERIMETER LANDSCAPE EDGE 'B'

CATEGORY	Adjacent to Roadways	Adjacent to Perimeter Properties
Perimeter/Property Designation	B	C
Landscape Type	155'	147'
Credit for Existing Vegetation (Type, No., Linear Feet)	N/A	N/A
Proposed Planting (Type, No., Linear Feet)	110	147
Number of Plants Required	110	147
Number of Plants Provided	110	147
Substitution (2:1 Substitution)	110	147
Other Trees (2:1 Substitution)	110	147
Other Trees (2:1 Substitution)	110	147
Other Trees (2:1 Substitution)	110	147
Other Trees (2:1 Substitution)	110	147

PLANT LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
LARGE TREES					
6	AR	Acer rubrum 'October Glory'	OCTOBER GLORY RED MAPLE	2 1/2" - 3" CAL. 12'-14' HT.	B & B FULL HEAD
6	AS	Acer saccharum 'Legacy'	LEGACY SUGAR MAPLE	2 1/2" - 3" CAL. 12'-14' HT.	B & B FULL HEAD
FLOWERING TREES					
7	PK	Prunus serrulata 'Kwanzan'	KWANZAN CHERRY	8'-10' HT.	B & B
EVERGREEN TREES					
17	PA	Picea Abies	NORWAY SPRUCE	6'-8' HT.	B & B
8	PN	Pinus Nigra	AUSTRIAN PINE	6'-8' HT.	B & B
23	PS	Pinus Strobus	WHITE PINE	6'-8' HT.	B & B HEAVY / UNSHEARED

COST ESTIMATE

QTY	TYPE	COST
24	Shade trees @ \$300 EA.	\$7200
39	Evergreen trees @ \$150 EA.	\$5850
TOTAL		\$13050

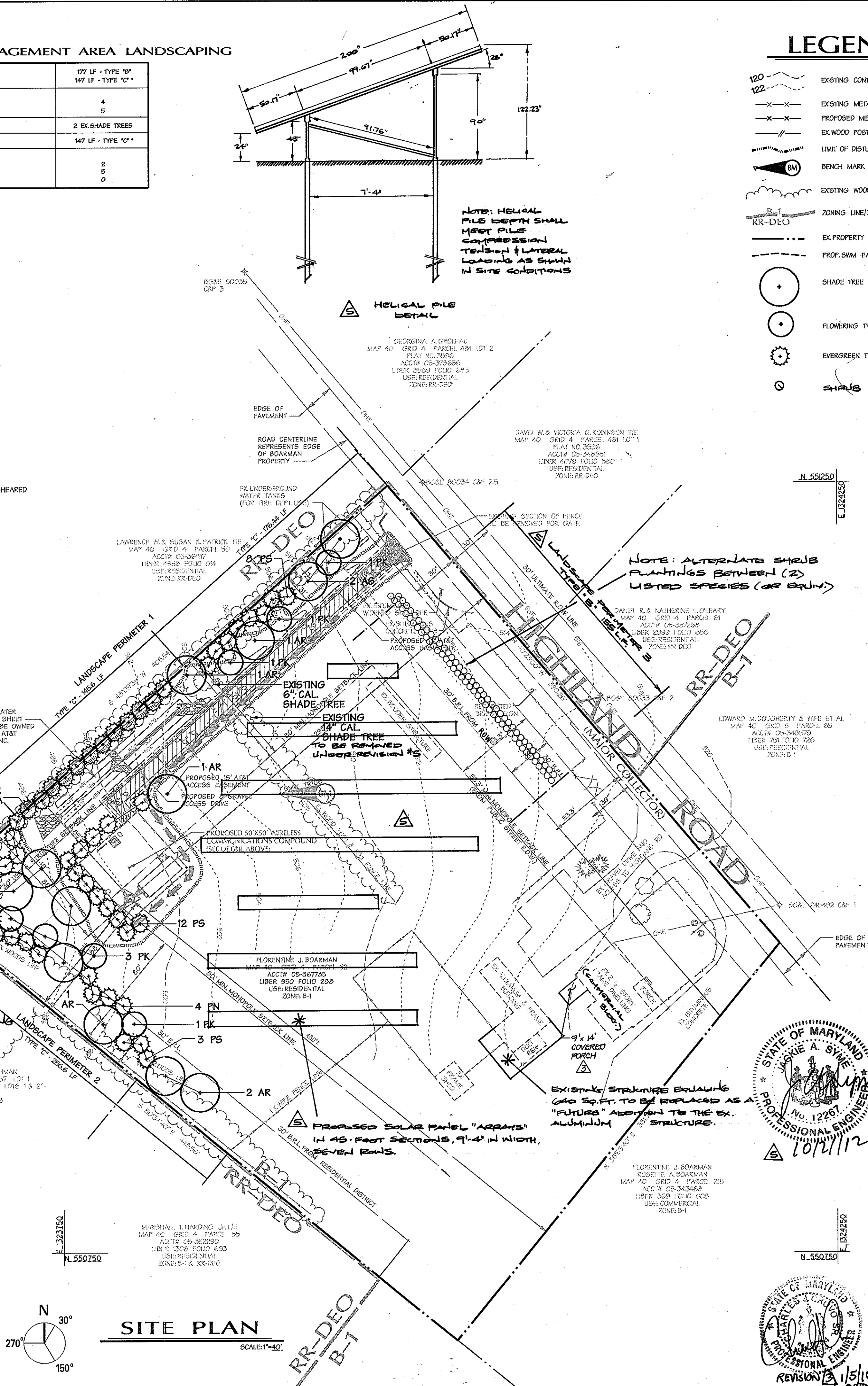
PROP. 'B' MODERATE LANDSCAPE BUFFER APPROX. 155' IN LENGTH EQUATES TO (3) SHADE TREES & (4) EVERGREEN TREES REQUIRED.

REMOVAL OF (1) EXISTING SHADE TREE

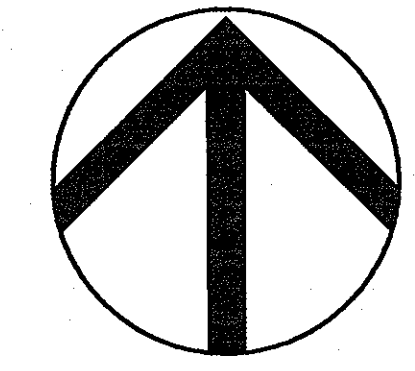
(10) LOW SHRUBS FOR EVERY (1) SHADE OR EVERGREEN, TOTAL OF (30) SHRUBS REQUIRED @ 3" O.C. M.H. (OR EQUIV.)

QUANTITY	SCIENTIFIC NAME	COMMON NAME
(40)	ARONIA MELANOCARPA	BLACK CHERRY
(40)	VIBERNUM ACERIFOLIUM	MAPLE LEAVED VIBERNUM

LANDSCAPING FOR THE PROPOSED SOLAR PANELS SHALL BE PROVIDED IN ACCORDANCE WITH THE LANDSCAPE MANUAL, SURVEY AND GRADING PERMIT WILL NOT BE REQUIRED FOR (30) LOW SHRUB PLANTS PROPOSED AS LANDSCAPING ALONG THE ULTIMATE RIGHT OF WAY OF HIGHLAND ROAD PER MARSHA McLAUGHLIN, DIRECTOR.



NOTE: ALTERNATE SHRUB PLANTINGS BETWEEN (2) LISTED SPECIES (OR EQUIV.)



7-17-01
Date

STATE OF MARYLAND
DAVID E. LOCKE
REGISTERED LANDSCAPE ARCHITECT
NO. 054
Landscape Architect

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

<i>[Signature]</i>	7/26/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>[Signature]</i>	7/31/01
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>[Signature]</i>	8/1/01
DIRECTOR	DATE

DATE	NO.	REVISION DESCRIPTION
9-14-00	MEM	REVISED AS PER HOWARD COUNTY SEC COMMENTS
10-03-00	KMO	ADDED SHEET C2, DRY SWALE W/ STONE CHECK DAM
1-5-01	A	Add 9x14' Covered Porch to Rear of EX. Dwelling
6-2-12	-	ADD (7) B&B SHRUBS PANEL 'ARRAYS' & LANDSCAPE BUFFER PLANTINGS ALONG HIGHLAND ROAD

DATE	NO.	REVISION DESCRIPTION
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AT&T

Boorman Property Unmanned Wireless Communication Site - B719.4

OWNER: Florentine J. Boorman
1770 Highland Road, Highland, Maryland 20711

DEVELOPER: AT&T Wireless Services, Inc.
1770 Beltsville Drive, Beltsville, Maryland 20705

DMW
Dawn McQueen-Walkers, Inc.
200 East Pennsylvania Avenue, Towson, Maryland 21286
(410) 596-3358
Fax 296-4705

A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

REVISION NAME: N/A | AT&T COMM TOWER | SECTION: N/A | LOT/PARCEL #: 52
PLAT OR LF: N/A | BLOCK #: 40 | TAXING MAP: B-1 | ELECT. DISTRICT: 5 | GENUS TRACT: 6051.01
WATER CODE: N/A | SEWER CODE: N/A

Title: Landscape Plan

Des By	BKC	Scale	As Shown	Proj. No.	96035
Drn By	BKC	Date	7-3-01		
Chk By		Approved		6 OF 6	