

SBA Towers III LLC

WIRELESS COMMUNICATIONS FACILITY DEVELOPMENT AND MANAGEMENT PLAN N. STONINGTON 3 - CT11796-S 350B COSSADUCK HILL ROAD NORTH STONINGTON, CT

DESIGNED BY:	CFC	
DRAWN BY:	DMD	
CHK'D BY:	CFC	
DATE:	03/19/12	
REVISION:		
NO.	DATE	DESCRIPTION
1	03/19/12	D & M PLAN
2	03/19/12	D & M PLAN
3	03/19/12	D & M PLAN
4	03/19/12	D & M PLAN
5	03/19/12	D & M PLAN
6	03/19/12	D & M PLAN
7	03/19/12	D & M PLAN
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44	03/19/12	D & M PLAN
45	03/19/12	D & M PLAN
46	03/19/12	D & M PLAN
47	03/19/12	D & M PLAN
48	03/19/12	D & M PLAN
49	03/19/12	D & M PLAN
50	03/19/12	D & M PLAN



CENTEK ENGINEERING, INC.
 63-2 NORTH BRAWFORD ROAD
 BRAWFORD, CT 06405
 (203) 488-0380
 (203) 488-8877 Fax
 45-2 North Brawford Road
 Brawford, CT 06405
 www.CentekEng.com

SBA TOWERS III LLC.
 WIRELESS COMMUNICATIONS FACILITY
N. STONINGTON 3
 350B COSSADUCK HILL ROAD
 NORTH STONINGTON, CT

DATE: 03/19/12
 SCALE: AS NOTED
 JOB NO. 10123

TITLE SHEET

T-1
 Sheet No. 1 of 2

SITE DIRECTIONS		
FROM:		TO:
ONE RESEARCH DRIVE WESTBOROUGH, MA		350B COSSADUCK HILL ROAD NORTH STONINGTON, CONNECTICUT
- START OUT GOING WEST ON RESEARCH DRIVE TOWARD FRIBERG PKWY/ WESTBOROUGH BUSINESS PARK.	0.0 MI.	
- MERGE ONTO MA-9 E/TURNPIKE ROAD.	0.5 MI.	
- MERGE ONTO I-495 S TOWARD I-90/CAPE COD.	1.9 MI.	
- MERGE ONTO I-90 W/MASS PIKE VIA EXIT 22 TOWARD SPRINGFIELD/ALBANY.	18.5 MI.	
- TAKE THE I-290 E/ I-395 S EXIST. EXIT 10 TOWARD US-20/ WORCHESTER /WORCHESTER AIRPORT.	1.1 MI.	
- MERGE ONTO I-395 S TOWARD NORWICH CT (CROSSING INTO CT).	44.0 MI.	
- TAKE THE CT-138 / CT-164 EXIT, EXIT 85, TOWARD JEWETT CITY/GRSWOLD.	0.5 MI.	
- TURN LEFT ONTO PRESTON ROAD / CT-164. CONTINUE ON CT-164	4.7 MI.	
- TURN LEFT ONTO NW CORNER ROAD	4.9 MI.	
- TURN LEFT ONTO COSSADUCK HILL ROAD.	0.5 MI.	

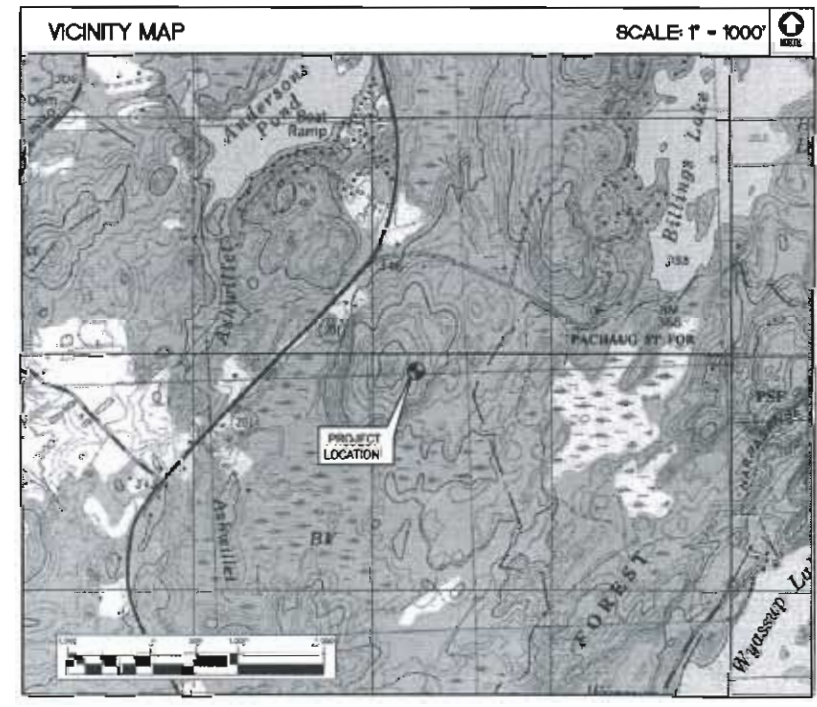
GENERAL NOTES

- PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY SBA TOWERS II LLC.

SITE INFORMATION

THE SCOPE OF WORK SHALL INCLUDE:

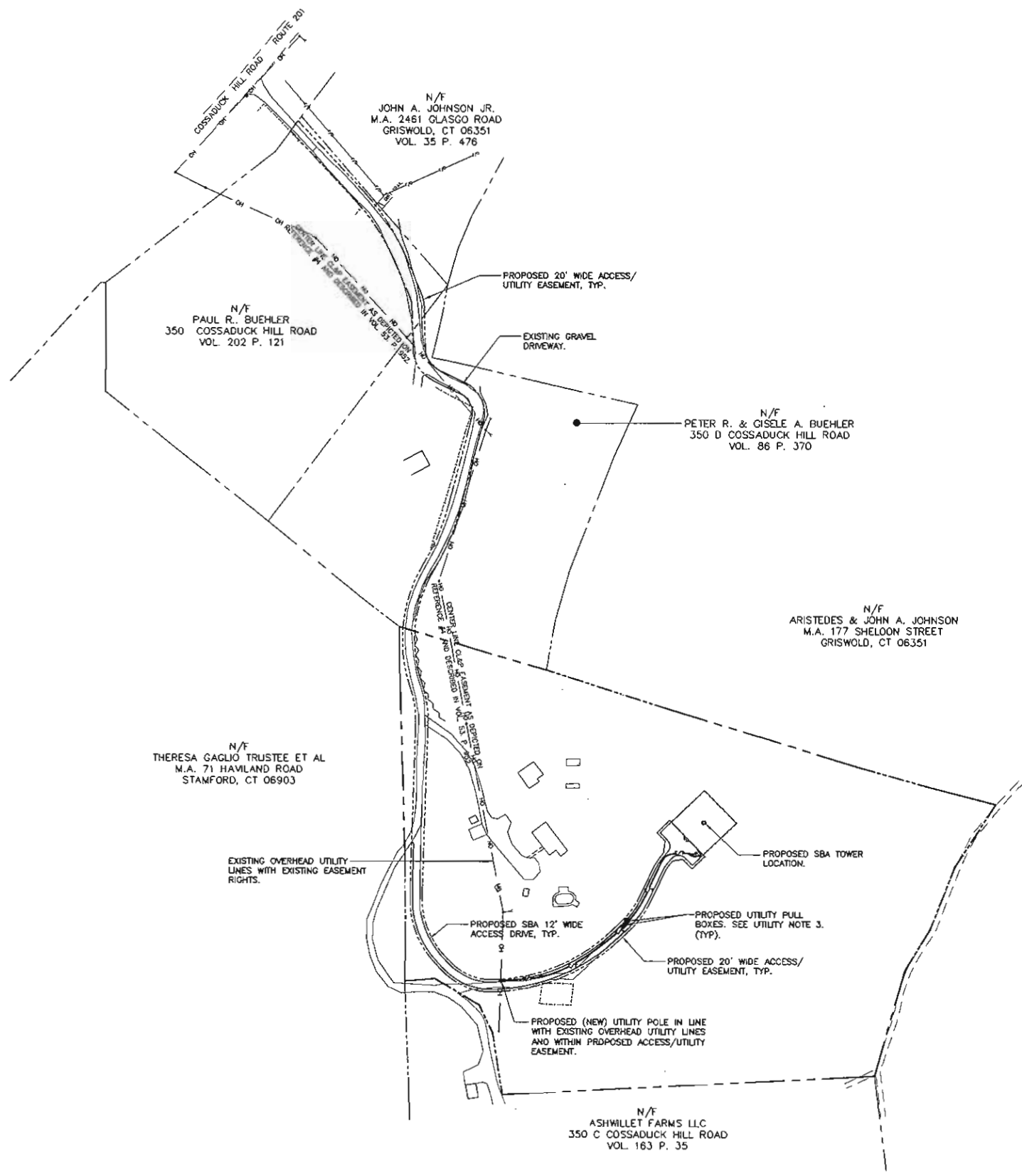
- THE CONSTRUCTION OF A 75'x75' FENCED WIRELESS COMMUNICATIONS COMPOUND WITHIN A 100'x100' LEASE AREA.
- A 180' STEEL MONOPOLE TOWER IS PROPOSED TO BE LOCATED WITHIN THE PROPOSED FENCED COMPOUND.
- TOTAL ACCESS DRIVE LENGTH IS 2,135'±. OFF OF COSSADUCK HILL ROAD. 1,390'± OF WHICH IS ALONG EXISTING DRIVEWAY AND 745'± IS NEWLY PROPOSED ACCESS DRIVE.
- UTILITIES FOR THE PROPOSED COMMUNICATIONS FACILITY ARE PROPOSED TO BE ROUTED ALONG EXISTING UTILITY POLE LINE WITH A NEW UTILITY POLE LOCATED AS SHOWN ON PLAN I/C-1.0. UTILITIES ARE PROPOSED TO BE ROUTED UNDERGROUND FROM THE NEW UTILITY POLE TO THE FACILITY BACKBOARD LOCATED ADJACENT TO THE PROPOSED COMPOUND. FINAL DEMARC LOCATIONS AND UTILITY ROUTING WILL BE VERIFIED/DETERMINED BY LOCAL UTILITY COMPANIES.
- THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.
- THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.
- FOR ADDITIONAL NOTES AND DETAILS REFER TO THE ACCOMPANYING DRAWINGS.



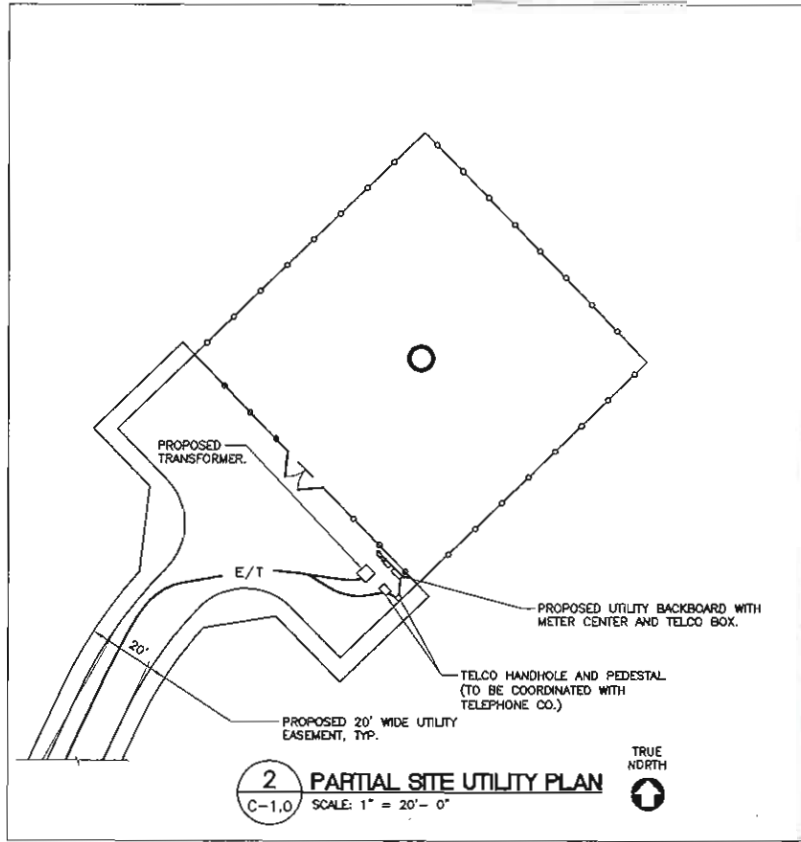
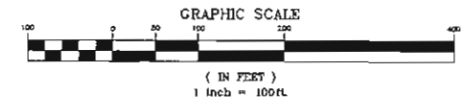
PROJECT SUMMARY	
SITE NAME:	N. STONINGTON 3, CT11796-S
SITE ADDRESS:	350B COSSADUCK HILL ROAD NORTH STONINGTON, CT 06359
PROPERTY OWNER/ LEASOR:	PAUL R. BUEHLER 350B COSSADUCK HILL ROAD NORTH STONINGTON, CT 06359
LESSEE / APPLICANT:	SBA TOWERS III LLC 5900 BROKEN SOUND PARKWAY N.W. BOCA RATON, FL 33487
ENGINEER:	CENTEK ENGINEERING, INC. 63-2 NORTH BRAWFORD ROAD BRAWFORD, CT 06405
TOWER COORDINATES:	LATITUDE: 41°29'57.238" LONGITUDE: 71°53'22.277" AVERAGE GROUND ELEVATION: 444'± A.M.S.L. COORDINATES ARE BASED ON FAA 2C CERTIFICATION PREPARED BY MARTINEZ COUCH AND ASSOCIATES L.L.C., DATED FEBRUARY 14, 2012.

LEGEND	
SYMBOL	DESCRIPTION
	SECTION OR DETAIL NUMBER SHEET WHERE DETAIL/SECTION OCCURS
	ELEVATION NUMBER SHEET WHERE ELEVATION OCCURS

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
C-1.0	ABUTTERS MAP/ UTILITY SITE PLANS	1
C-1.1	SITE SURVEY PLAN	1
C-1.1	SITE DEVELOPMENT PLAN	1
C-2	COMPOUND PLAN, ELEVATION AND ANTENNA MOUNTING DETAILS	1
C-3	SITE DETAILS AND NOTES	1
C-4	SITE DETAILS AND SHELTER ELEVATIONS	1



1 ABUTTERS MAP/ SITE UTILITY PLAN
 C-1.0 SCALE: 1" = 100'
 TRUE NORTH



2 PARTIAL SITE UTILITY PLAN
 C-1.0 SCALE: 1" = 20'- 0"
 TRUE NORTH

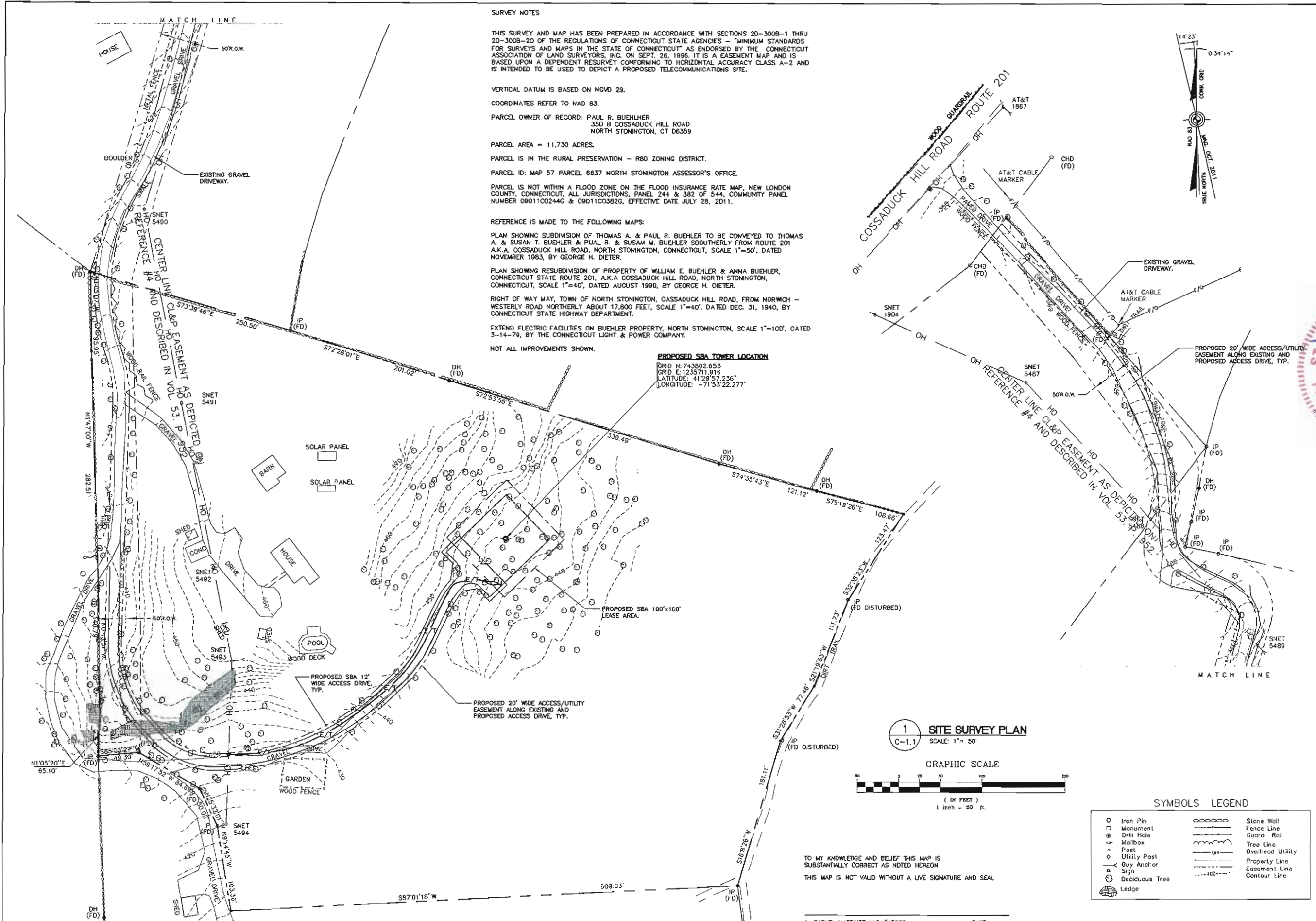
- UTILITY NOTES:**
- UTILITIES FOR THE PROPOSED COMMUNICATIONS FACILITY ARE PROPOSED TO BE ROUTED ALONG EXISTING UTILITY POLE LINE WITH A NEW UTILITY POLE LOCATED AS SHOWN ON PLAN. UTILITIES ARE PROPOSED TO BE ROUTED UNDERGROUND FROM THE NEW UTILITY POLE TO THE FACILITY BACKBOARD LOCATED ADJACENT TO THE PROPOSED COMPOUND.
 - UTILITY ROUTING SHOWN ON THIS PLAN IS SCHEMATIC. CONTRACTOR SHALL COORDINATE FINAL ROUTING WITH RESPECTIVE UTILITY COMPANIES PRIOR TO PERFORMING ANY UTILITY TRENCH WORK. ALL UTILITY CONDUITS AND PULL BOXES SHALL BE LOCATED WITHIN THE PROPOSED 20' WIDE UTILITY EASEMENT.
 - UTILITY PULL BOXES/SILOS TO BE INSTALLED IN APPROXIMATE LOCATIONS SHOWN ON THIS PLAN, BUT NOT TO EXCEED 450' INTERVALS. CONTRACTOR TO COORDINATE FINAL PULL BOX LOCATIONS WITH RESPECTIVE LOCAL UTILITY COMPANIES.

SYMBOLS LEGEND

---	PROPERTY LINE
- - - - -	ACCESS/ UTILITY EASEMENT LINE (PROPOSED)
—E/T—	ELECTRICAL/TELCO CONDUIT RUN (UNDERGROUND)
—O/H—	UTILITY LINES (OVERHEAD BY UTILITY CO.)
●	UTILITY PULL BOX/SILO
○	UTILITY POLE

DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	CFC
DATE	03/19/12
SCALE	AS NOTED
JOB NO.	10123
<p>SBA TOWERS III LLC. WIRELESS COMMUNICATIONS FACILITY N. STONINGTON 3 350B COSSADUCK HILL ROAD NORTH STONINGTON, CT</p>	
<p>ABUTTERS MAP/ SITE UTILITY PLANS</p>	
<p>C-1.0 Sheet No. 2 of 7</p>	

CENITEK engineering
 CENITEK CONSULTANTS
 (203) 466-2399
 65-2 North Branch Road
 Branford, CT 06405
 www.Cenitek.com



SURVEY NOTES

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPT. 26, 1996. IT IS A EASEMENT MAP AND IS BASED UPON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND IS INTENDED TO BE USED TO DEPICT A PROPOSED TELECOMMUNICATIONS SITE.

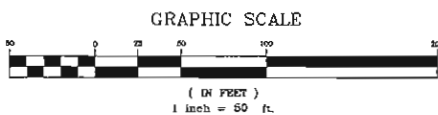
VERTICAL DATUM IS BASED ON NGVD 29.
 COORDINATES REFER TO NAD 83.
 PARCEL OWNER OF RECORD: PAUL R. BUEHLER
 350 B COSSADUCK HILL ROAD
 NORTH STONINGTON, CT 06359

PARCEL AREA = 11,730 ACRES.
 PARCEL IS IN THE RURAL PRESERVATION - R80 ZONING DISTRICT.
 PARCEL ID: MAP 57 PARCEL 6637 NORTH STONINGTON ASSESSOR'S OFFICE.
 PARCEL IS NOT WITHIN A FLOOD ZONE ON THE FLOOD INSURANCE RATE MAP, NEW LONDON COUNTY, CONNECTICUT, ALL JURISDICTIONS, PANEL 244 & 382 OF 544, COMMUNITY PANEL NUMBER 09011002440 & 09011003826, EFFECTIVE DATE JULY 28, 2011.

REFERENCE IS MADE TO THE FOLLOWING MAPS:
 PLAN SHOWING SUBDIVISION OF THOMAS A. & PAUL R. BUEHLER TO BE CONVEYED TO THOMAS A. & SUSAN T. BUEHLER & PAUL R. & SUSAN M. BUEHLER SOUTHERLY FROM ROUTE 201 A.K.A. COSSADUCK HILL ROAD, NORTH STONINGTON, CONNECTICUT, SCALE 1"=50', DATED NOVEMBER 1983, BY GEORGE H. DIETER.
 PLAN SHOWING RESUBDIVISION OF PROPERTY OF WILLIAM E. BUEHLER & ANNA BUEHLER, CONNECTICUT STATE ROUTE 201, A.K.A. COSSADUCK HILL ROAD, NORTH STONINGTON, CONNECTICUT, SCALE 1"=40', DATED AUGUST 1990, BY GEORGE H. DIETER.
 RIGHT OF WAY WAY, TOWN OF NORTH STONINGTON, COSSADUCK HILL ROAD, FROM NORWICH - WESTERLY ROAD NORTHERLY ABOUT 17,800 FEET, SCALE 1"=40', DATED DEC. 31, 1940, BY CONNECTICUT STATE HIGHWAY DEPARTMENT.
 EXTEND ELECTRIC FACILITIES ON BUEHLER PROPERTY, NORTH STONINGTON, SCALE 1"=100', DATED 3-14-79, BY THE CONNECTICUT LIGHT & POWER COMPANY.
 NOT ALL IMPROVEMENTS SHOWN.

PROPOSED SBA TOWER LOCATION
 GRID N: 743802.653
 GRID E: 1235711.916
 LATITUDE: 41°29'57.236"
 LONGITUDE: -71°53'22.277"

1 SITE SURVEY PLAN
 C-1.1 SCALE: 1"= 50'



SYMBOLS LEGEND

○ Iron Pin	⊖ Stone Wall
⊕ Monument	— Fence Line
⊙ Drill Hole	— Guard Rail
⊘ Mailbox	— Tree Line
⊙ Post	— Overhead Utility
⊙ Utility Post	— Property Line
⊙ Guy Anchor	— Easement Line
⊙ Sign	— Contour Line
⊙ Deciduous Tree	
⊙ Ledge	

TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON
 THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL

A. RAFAEL MARTINEZ LLS #18833 DATE

DESIGNED BY: CFC
 DRAWN BY: TSP
 CHECKED BY: CFC

DATE	BY	DESCRIPTION
06/11/12	CFC	D & M PLAN
07/19/12	CFC	D & M PLAN
07/19/12	CFC	ISSUED FOR CLIENT REVIEW

PROFESSIONAL ENGINEER
 No. 16694
 STATE OF CONNECTICUT

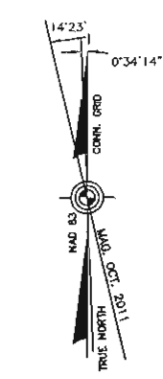
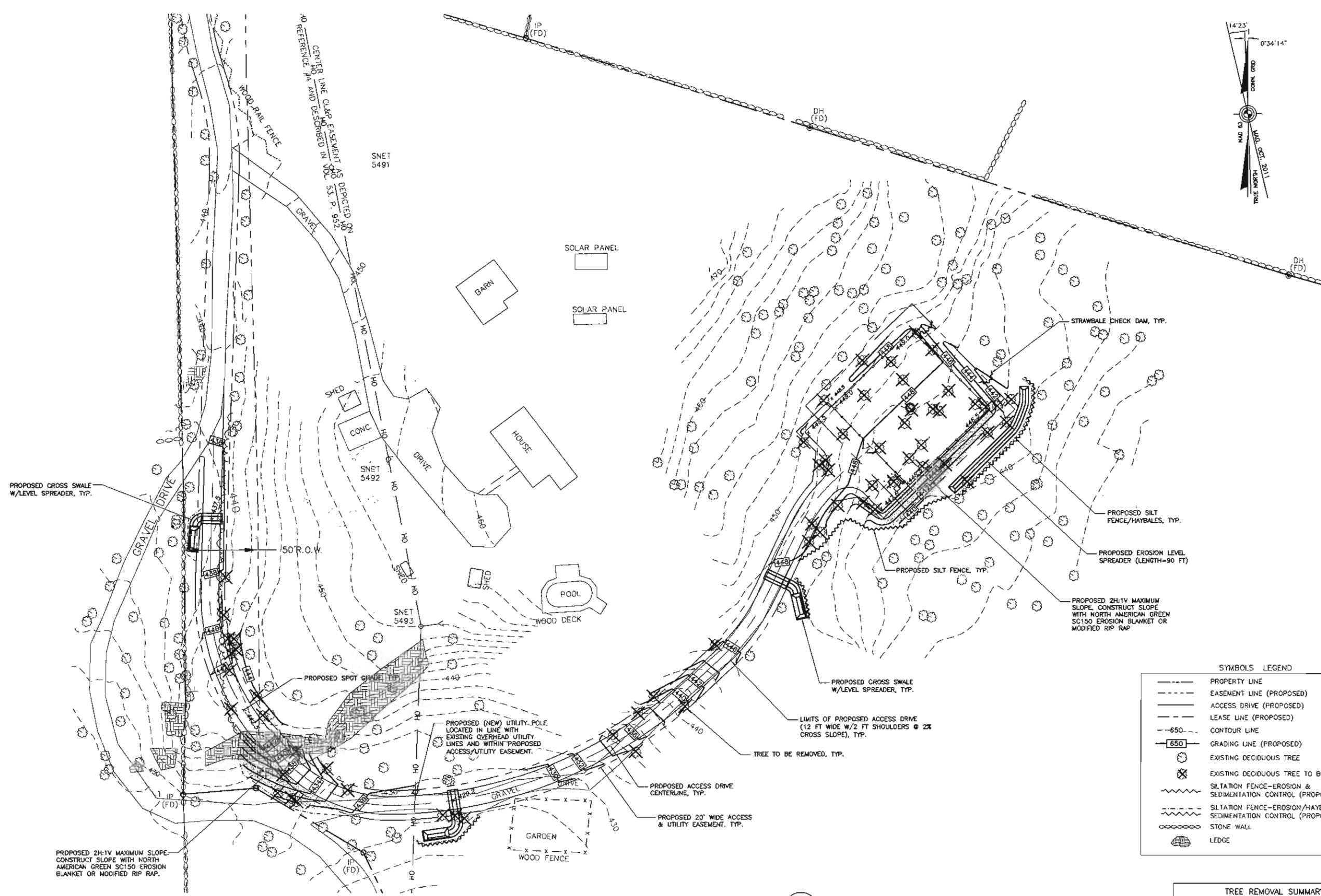
CENTEK engineering
 Central on lockport
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SBA TOWERS III LLC.
 WIRELESS COMMUNICATIONS FACILITY
N. STONINGTON 3
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 NORTH STONINGTON, CT

DATE: 03/19/12
 SCALE: AS NOTED
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SITE SURVEY PLAN

C-1.1
 Sheet No. 3 of 7

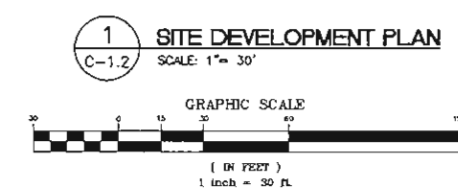


SYMBOLS LEGEND

---	PROPERTY LINE
- - - -	EASEMENT LINE (PROPOSED)
---	ACCESS DRIVE (PROPOSED)
---	LEASE LINE (PROPOSED)
---	CONTOUR LINE
---	GRADING LINE (PROPOSED)
○	EXISTING DECIDUOUS TREE
⊗	EXISTING DECIDUOUS TREE TO BE REMOVED
~	SILTATION FENCE-EROSION & SEDIMENTATION CONTROL (PROPOSED)
~	SILTATION FENCE-EROSION/HAYBALE SEDIMENTATION CONTROL (PROPOSED)
○	STONE WALL
▬	LEDGE

TREE REMOVAL SUMMARY

TREES PROPOSED TO BE REMOVED FOR DEVELOPMENT OF THE PROPOSED WIRELESS COMMUNICATIONS FACILITY = 62



DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	CFC
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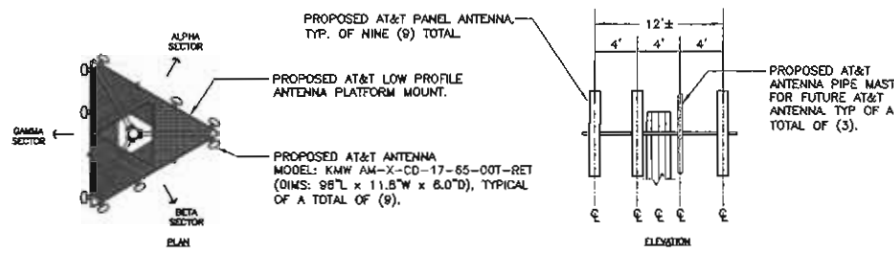
REVISIONS:

NO.	DATE	DESCRIPTION
1	03/19/12	ISSUED FOR CLIENT REVIEW
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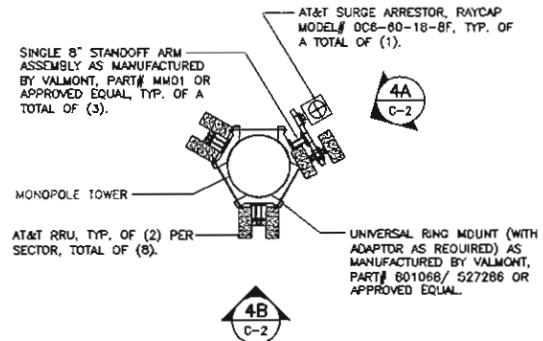
PROFESSIONAL ENGINEER
STATE OF CONNECTICUT
No. 10123
SBA TOWERS III LLC
350B COSSADUCK HILL ROAD
NORTH STONINGTON, CT

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WIRELESS COMMUNICATIONS FACILITY
N. STONINGTON 3
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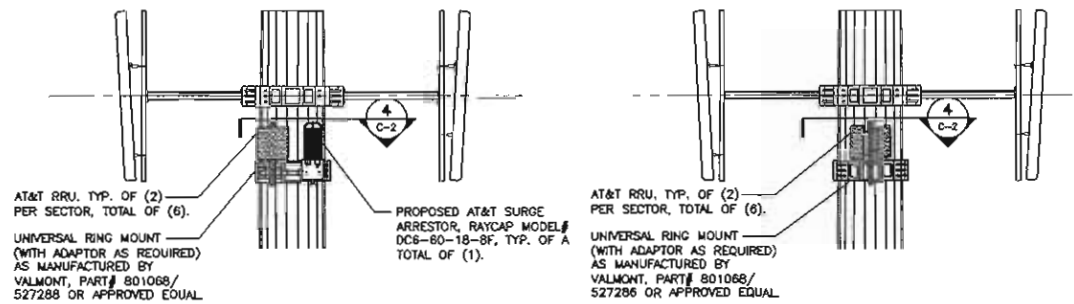
C-1.2
Sheet No. 4 of 7



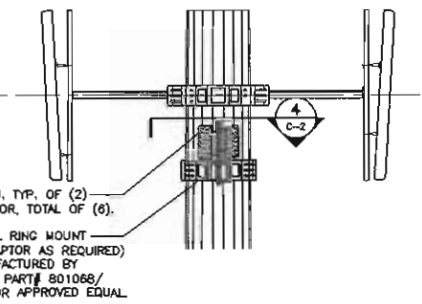
3 ATT ANTENNA MOUNTING CONFIGURATION
C-2 NOT TO SCALE



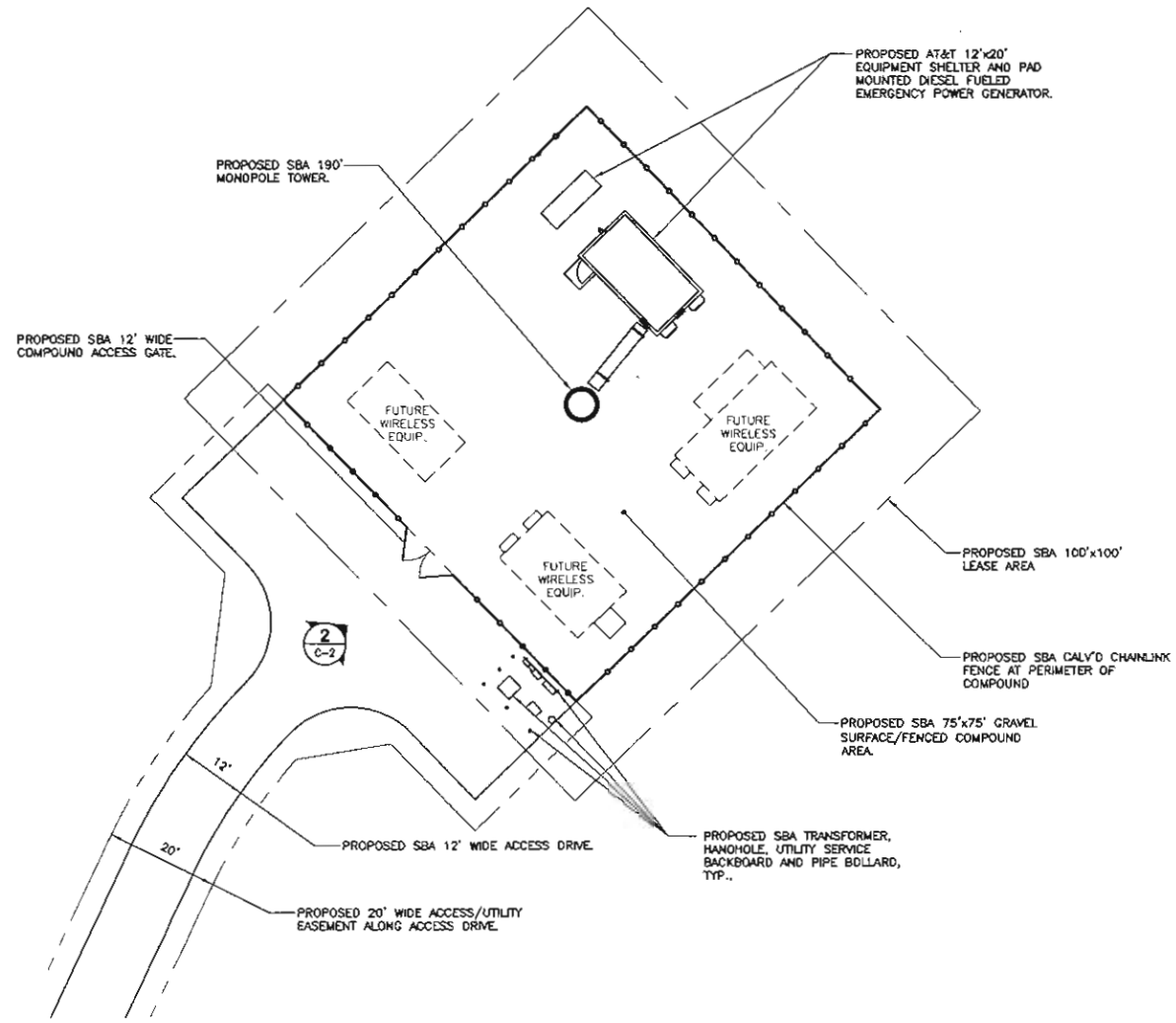
4 RRU AND SURGE ARRESTOR MOUNTING PLAN
C-2 SCALE: 1/4" = 1'-0"



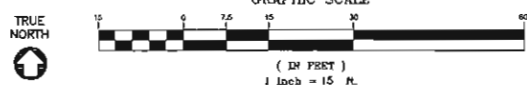
4A RRU AND SURGE ARRESTOR MOUNTING DETAIL
C-2 SCALE: 1/4" = 1'-0"



4B RRU MOUNTING DETAIL
C-2 SCALE: 1/4" = 1'-0"

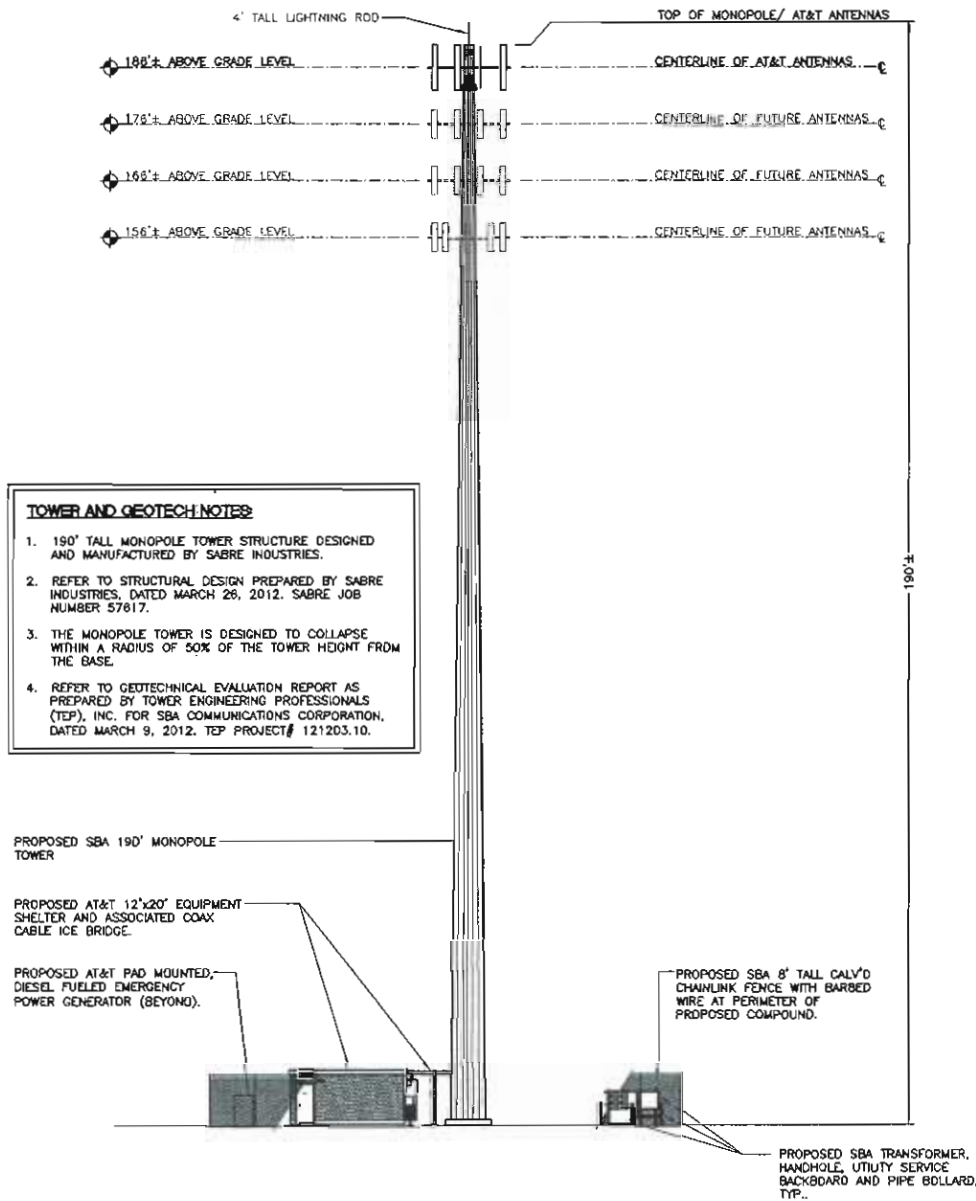


1 COMPOUND PLAN
C-2 SCALE: 1" = 15'

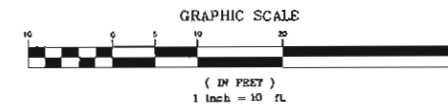


TOWER AND GEOTECH NOTES:

- 150' TALL MONOPOLE TOWER STRUCTURE DESIGNED AND MANUFACTURED BY SABRE INDUSTRIES.
- REFER TO STRUCTURAL DESIGN PREPARED BY SABRE INDUSTRIES, DATED MARCH 26, 2012, SABRE JOB NUMBER 57617.
- THE MONOPOLE TOWER IS DESIGNED TO COLLAPSE WITHIN A RADIUS OF 50% OF THE TOWER HEIGHT FROM THE BASE.
- REFER TO GEOTECHNICAL EVALUATION REPORT AS PREPARED BY TOWER ENGINEERING PROFESSIONALS (TEP), INC. FOR SBA COMMUNICATIONS CORPORATION, DATED MARCH 9, 2012, TEP PROJECT# 121203.10.



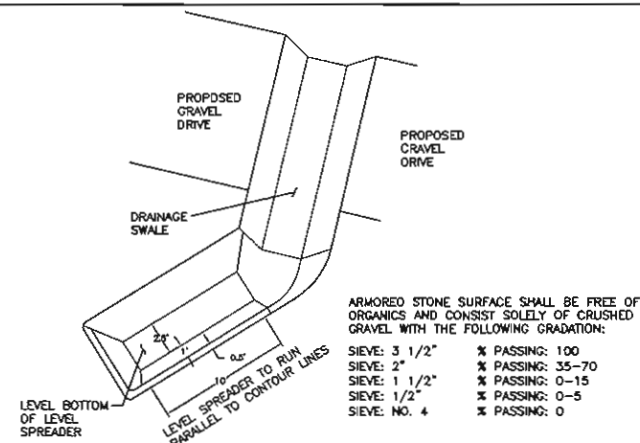
2 SOUTHWEST ELEVATION
C-2 SCALE: 1" = 10'



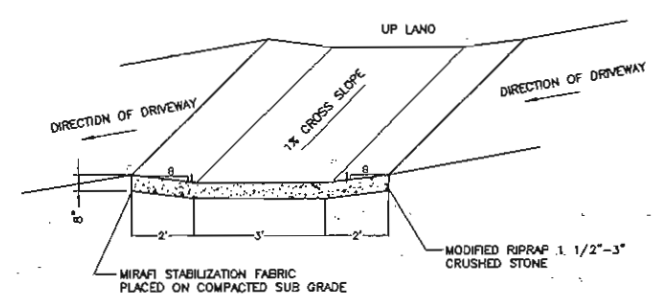
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CHECKED BY:	CFC
DATE:	03/19/12
SCALE:	AS NOTED
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COMPOUND PLAN ELEVATION AND ANTENNA MOUNTING DETAILS	
C-2	
Sheet No. 5 of 7	

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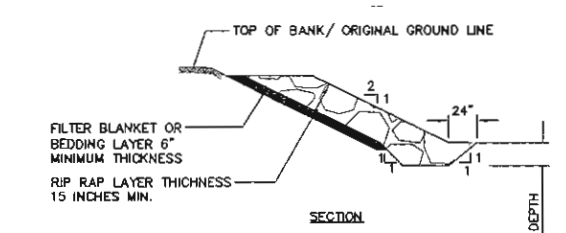
CENEX
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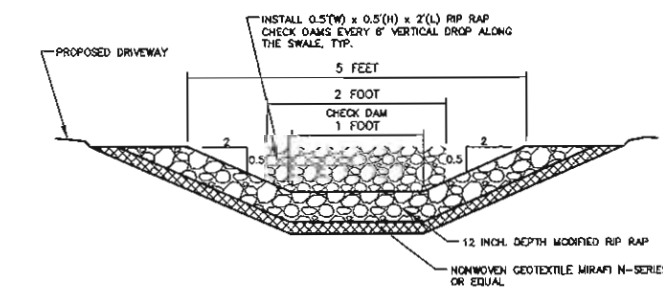
2 TYPICAL LEVEL SPREADER DETAIL
C-3 NOT TO SCALE



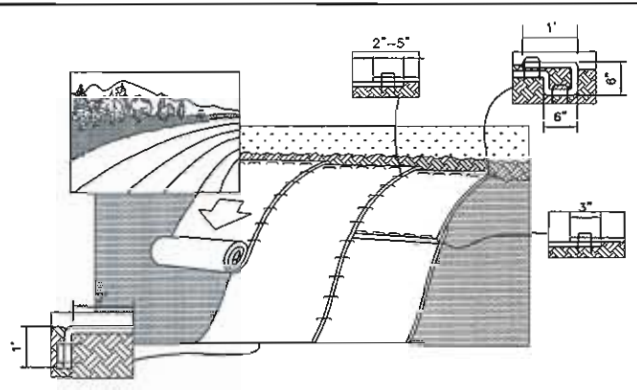
3 TYPICAL CROSS DRAINAGE SWALE
C-3 NOT TO SCALE



4 RIP RAP SLOPE
C-3 NOT TO SCALE

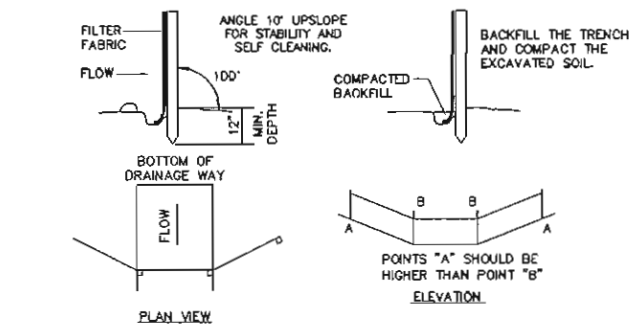


5 DRAINAGE SWALE
C-3 NOT TO SCALE



SLOPE APPLICATIONS:
A. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
B. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLE/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
C. ROLL THE BLANKET DOWN OR HORIZONTALLY ACROSS THE SLOPE. BLANKET WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL ROLLED EROSION CONTROL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM(TM), STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
D. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY A 2" - 5" OVERLAP DEPENDING ON BLANKET TYPE.
E. CONSECUTIVE ROLLED EROSION CONTROL BLANKETS SPUN DOWN THE SLOPE MUST BE PLACED END OVER END (SINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 8" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKET.
F. THE EDGE OF THE BLANKET IS TO EXTEND A MINIMUM 24 INCHES BEYOND THE TOE OF THE SLOPE AND ANCHORED BY PLACING THE STAPLES/STAKES IN A 12 INCH DEEP x 6 INCH WIDE ANCHOR TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12 INCH APART IN THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING (STONE OR SOIL MAY BE USED AS BACKFILL).
G. REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN. MINIMUM 4 SPIKES PER ONE SQ. FT.

1 TYPICAL REINFORCEMENT BLANKET INSTALLATION ON SLOPE
C-3 NOT TO SCALE



6 PLACEMENT AND CONSTRUCTION SILTATION FENCE
C-3 NOT TO SCALE

GENERAL CONSTRUCTION SEQUENCE
THIS IS A GENERAL CONSTRUCTION SEQUENCE OUTLINE SOME ITEMS OF WHICH MAY NOT APPLY TO PARTICULAR SITES.

- CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
- INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
- REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEED TO PREVENT EROSION.
- CONSTRUCT CLOSED DRAINAGE SYSTEM. PRECEPT CULVERT INLETS AND CATCH BASINS WITH SEDIMENTATION BARRIERS.
- CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.
- INSTALL UNDERGROUND UTILITIES.
- BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEED OR MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION. NO AREA SHALL BE LEFT UNSTABILIZED FOR A TIME PERIOD OF MORE THAN 30 DAYS.
- DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING.
- BEGIN EXCAVATION FOR AND CONSTRUCTION OF TOWERS AND PLATFORMS.
- FINISH PAVING ALL ROADWAYS, DRIVES, AND PARKING AREAS.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- NO FLOW SHALL BE DIVERTED TO ANY WETLANDS UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED IN REGARDED AREAS.
- AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDING AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

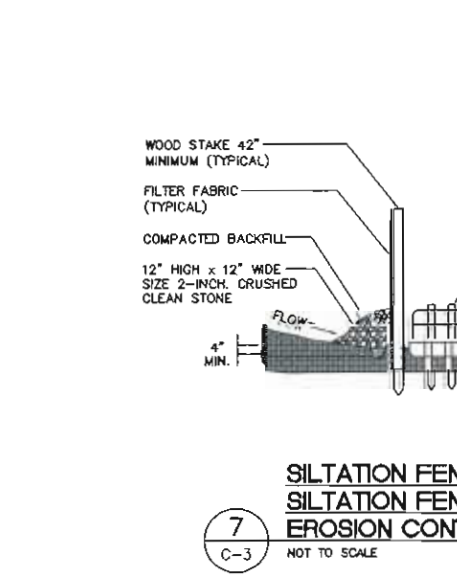
CONSTRUCTION SPECIFICATIONS - SILT FENCE

- THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.
- FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 18 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.

MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BUILD UP IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

MAINTENANCE - SILT FENCE

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.



7 SILTATION FENCE/HAY BALE SILTATION FENCE 'SANDWICH' EROSION CONTROL
C-3 NOT TO SCALE

SOIL EROSION AND SEDIMENT CONTROL SEQUENCE

- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS CONSTRUCTION ENTRANCE- ANTI-TRACKING PAD, SILTATION FENCE, AND SILT SOCK SHALL BE IN PLACE PRIOR TO ANY GRADING ACTIVITY. INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. MEASURES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND/OR AREA IS STABILIZED.
- THE ENTRANCE TO THE PROJECT SITE IS TO BE PROTECTED BY STONE ANTI-TRACKING PAD OF ASTM C-33, SIZE NO. 2 OR 3, OR CT. O.O.T. 2" CRUSHED GRAVEL. THE STONE ANTI-TRACKING PAD IS TO BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- LAND DISTURBANCE WILL BE KEPT TO A MINIMUM AND RESTABILIZATIONS WILL BE SCHEDULED AS SOON AS PRACTICAL.
- ALL SOIL EROSION AND SEDIMENT CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL INCLUDING THE LATEST DATE FROM THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.
- ANY ADDITIONAL EROSION/SEDIMENTATION CONTROL DEEMED NECESSARY BY TOWN STAFF DURING CONSTRUCTION, SHALL BE INSTALLED BY THE DEVELOPER. IN ADDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE TOWN STAFF OR CONN. DEP.
- IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION AS WELL AS OBTURBANCE OF THE SOIL IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE. DURING CONSTRUCTION, EXPOSE AS SMALL AN AREA OF SOIL AS POSSIBLE FOR AS SHORT A TIME AS POSSIBLE.
- SILTATION FENCE SHALL BE PLACED AS INDICATED BEFORE A CUT SLOPE HAS BEEN CREATED. SEDIMENT DEPOSITS SHOULD BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDES OF SILTATION FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR TO BE USED IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. SILTATION FENCE IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE FENCE IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.
- SWALE DISCHARGE AREA WILL BE PROTECTED WITH RIP RAP SPLASH PAD/ ENERGY DISSIPATER.
- ALL FILL AREAS SHALL BE COMPACTED SUFFICIENTLY FOR THEIR INTENDED PURPOSE AND AS REQUIRED TO REDUCE SLIPPING, EROSION OR EXCESS SATURATION.
- THE SOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SOODING OR SEEDING.
- AFTER CONSTRUCTION IS COMPLETE AND GROUND IS STABLE, REMOVE SILTS IN THE RIP RAP ENERGY DISSIPATERS. REMOVE OTHER EROSION AND SEDIMENT DEVICES.

GENERAL CONSTRUCTION SEQUENCE
PREPARE THE SUBGRADE FOR RIP RAP, BEDDING, FILTER OR GEOTEXTILE TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE IN 12-INCHES LIFTS TO 95% OF STANDARD PROCTOR DENSITY. REMOVE BRUSH, TREES, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.

FILTER BLANKET OR BEDDING
IMMEDIATELY AFTER SLOPE PREPARATION, INSTALL THE FILTER OR BEDDING MATERIALS. SPREAD THE FILTER OR BEDDING MATERIALS IN A UNIFORM LAYER TO THE SPECIFIED DEPTH.

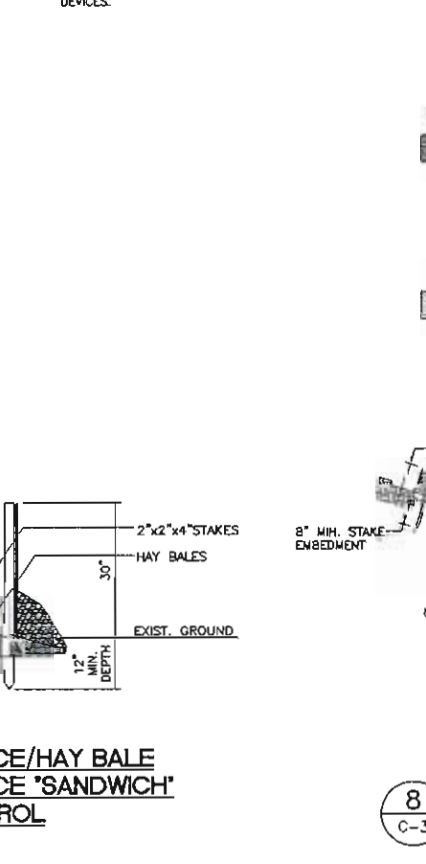
STONE PLACEMENT
IMMEDIATELY AFTER PLACEMENT OF THE FILTER BLANKET, BEDDING, PLACE THE RIP RAP TO ITS FULL COURSE THICKNESS IN ONE OPERATION SO THAT IT PRODUCES A DENSE WELL GRADED MASS OF STONE WITH A MINIMUM OF VOIDS. THE DESIRED DISTRIBUTION OF STONES THROUGHOUT THE MASS MAY BE OBTAINED BY SELECTIVE LOADING AT THE QUARRY. CONTROLLED DUMPING OF SUCCESSIVE LOADS DURING THE FINAL PLACING, OR BY A COMBINATION OF THESE METHODS. DO NOT PLACE RIP RAP IN LAYERS OR USE CHUTES OR SIMILAR METHODS TO DUMP THE RIP RAP WHICH ARE LIKELY TO CAUSE SEGREGATION OF THE VARIOUS STONES.

TAKE CARE NOT TO DISLodge THE UNDERLYING MATERIAL WHEN PLACING THE STONES. WHEN PLACING RIP RAP ON A FILTER FABRIC TAKE CARE NOT TO DAMAGE THE FABRIC. IF DAMAGE OCCURS, REMOVE AND REPLACE THE DAMAGED SHEET. FOR LARGE STONE, 12 INCHES OR GREATER, USE A 6 INCH LAYER OF FILTER OR BEDDING MATERIAL TO PREVENT DAMAGE TO THE MATERIAL FROM PUNCTURE.

ENSURE THE FINISHED SLOPE IS FREE OF POCKETS OF SMALL STONES OR CLUSTERS OF LARGE STONES. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE REQUIRED GRADES AND A GOOD DISTRIBUTION OF STONE SIZES. ENSURE THE FINAL THICKNESS OF THE RIP RAP BLANKET IS WITHIN PLUS OR MINUS 0.25 OF THE SPECIFIED THICKNESS.

MAINTENANCE
INSPECT PERIODICALLY TO DETERMINE IF HIGH FLOWS HAVE CAUSED SCOUR BENEATH THE RIP RAP OR FILTER BLANKET MATERIALS. REMOVE TREES THAT DEVELOP IN THE PROTECTED SLOPES.

MATERIALS TO BE MAINTAINED ON SITE FOR IMMEDIATE USE
100 LF. SILT FENCE ON POST;
SLEDGE HAMMER;
3 SHOVELS;
5 SILT BARS;
100 TONS OF RIP RAP;
500 SQ.FT. OF EROSION MAT / BLANKET WITH STAPLES;
DIGITAL CAMERA;
REPORT BOOK.



8 TYP. STRAWBALE CHECKDAM (NARROW SWALE)
C-3 NOT TO SCALE

MODIFIED RIP RAP

STONE SIZE	% OF MASS
10" AND OVER	0
6" TO 10"	30-50
4" TO 6"	30-50
2" TO 4"	20-30
1" TO 2"	10-20
LESS THAN 1"	0-10

NOTES:

- CHECKDAM SHALL BE INSTALLED IN LOCATIONS INDICATED ON SITE PLAN (SHEET C-1) IN DRAINAGE SWALE WITH BED WIDTHS OF 2 FEET OR LESS.
- THE DISTANCE BETWEEN STRAWBALE CHECKDAMS SHALL BE DETERMINED BY THE SLOPE OF THE SWALE. CHECKDAMS SHALL BE SET AT EVERY 2 FEET DROP IN SWALE ELEVATION.
- BALES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
- INSTALL 3 STAKES PER BALE WITHIN SWALE BED AREAS. STRAWBALES CAN BE SUBSTITUTED WITH EITHER STRAW WATTLE OR COMPOST SOCK/FILTER (E.G., SILTSOCK™ OR APPROVED EQUIVALENT).

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DRAWN BY: DMO
CHK'D BY: CFC

DATE: 03/19/12
SCALE: AS NOTED
JOB NO. 10123

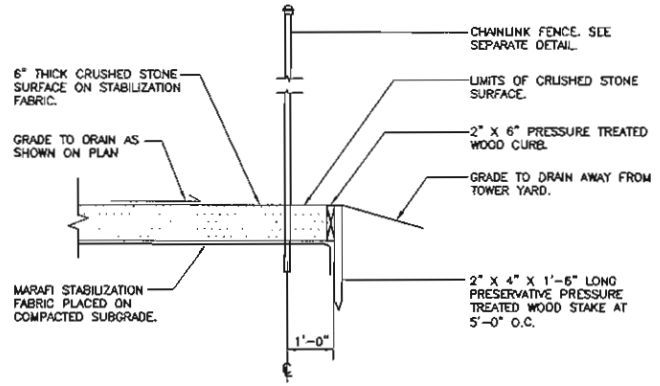
SITE DETAILS AND NOTES

C-3

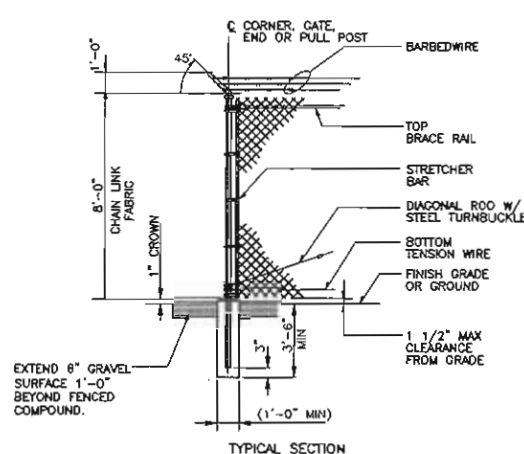
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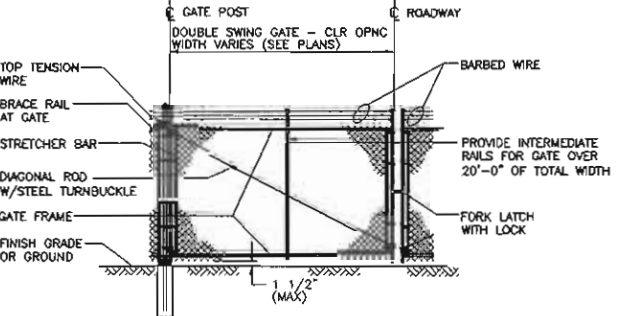
1 COMPOUND SURFACING DETAIL
C-4 NOT TO SCALE



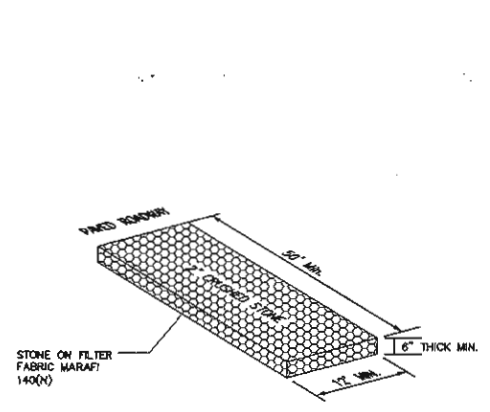
2 WOVEN WIRE FENCE DETAIL
C-4 NOT TO SCALE

WOVEN WIRE FENCE NOTES

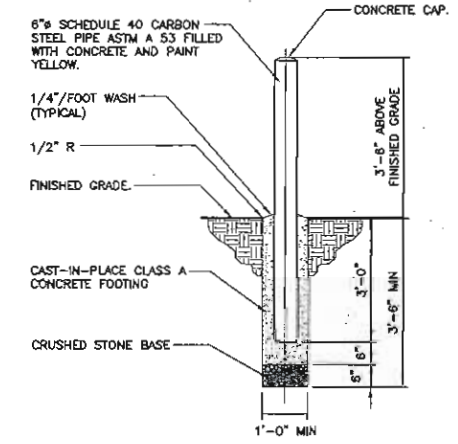
- GATE POST, CORNER, TERMINAL OR PULL POST 2 1/2" # SCHEDULE 40 FOR GATE WIDTHS UP THRU 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
- LINE POST: 2" # SCHEDULE 40 PIPE PER ASTM-F1083.
- GATE FRAME: 1 1/2" # SCHEDULE 40 PIPE PER ASTM-F1083.
- TOP RAIL & BRACE RAIL: 1 1/2" # SCHEDULE 40 PIPE PER ASTM-F1083.
- FABRIC: 12 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
- TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAX 24" INTERVALS.
- TENSION WIRE: 7 GA. GALVANIZED STEEL.
- BARBED WIRE: DOUBLE STRAND 12-1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA., 4 FT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
- GATE LATCH: DROP DOWN LOCKABLE FORK LATCH AND LOCK, KEYPED ALIKE FOR ALL SITES IN A GIVEN MTA.
- LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED WITH IF REQUIRED.
- HEIGHT = 8' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION.



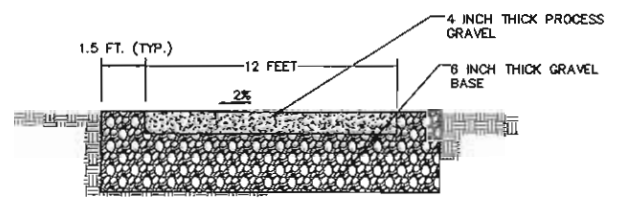
2A WOVEN WIRE SWING GATE-DOUBLE
C-4 NOT TO SCALE



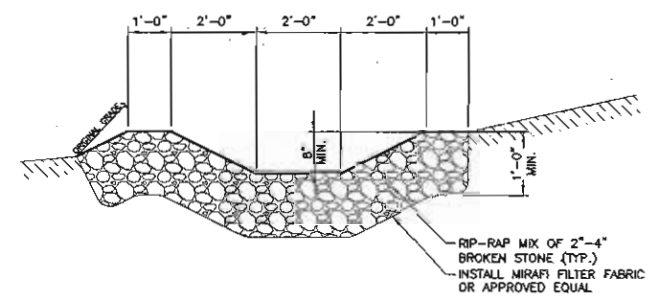
3 CONSTRUCTION ENTRANCE ANTI-TRACKING PAD
C-4 NOT TO SCALE



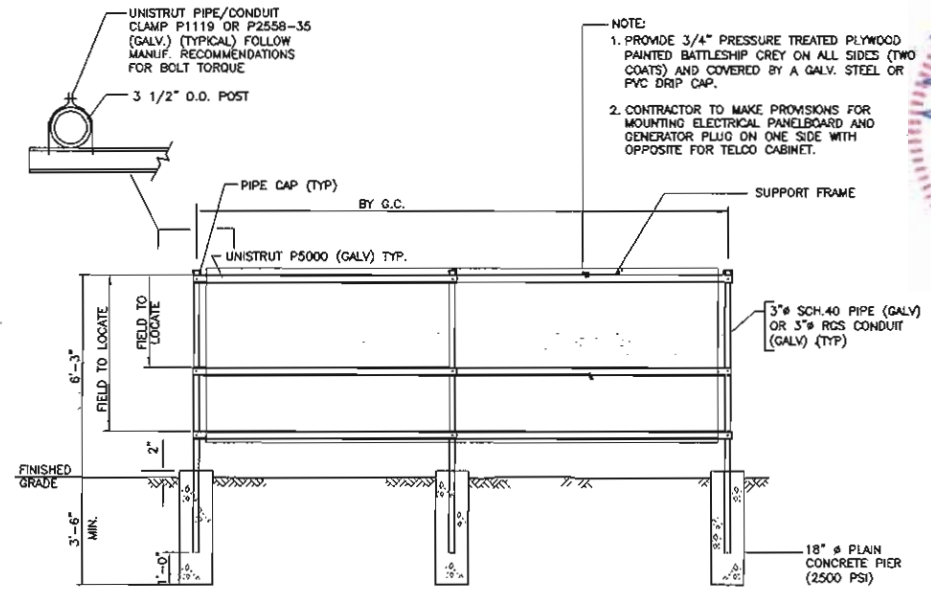
4 BOLLARD DETAIL
C-4 NOT TO SCALE



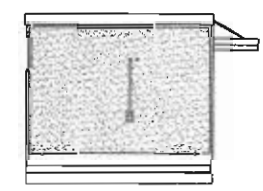
5 GRAVEL DRIVEWAY SECTION
C-4 NOT TO SCALE



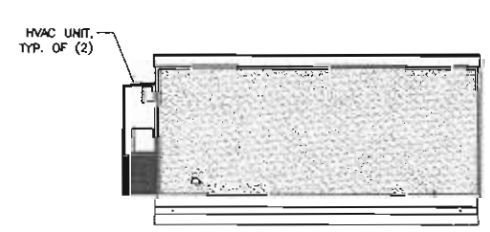
6 LEVEL SPREADER #1 - SECTION
C-4 NOT TO SCALE



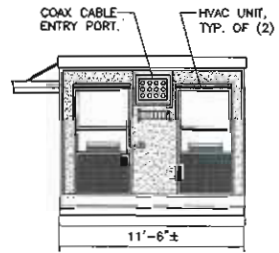
7 UTILITY SUPPORT FRAME (TYP)
C-4 NOT TO SCALE



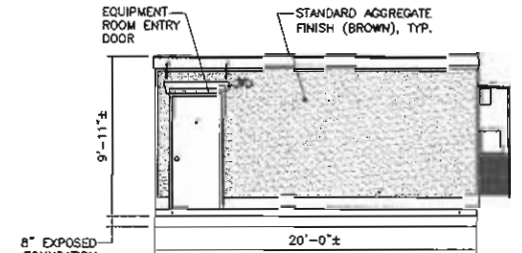
8 NORTHWEST SHELTER ELEVATION
C-4 SCALE: 3/16" = 1'-0"



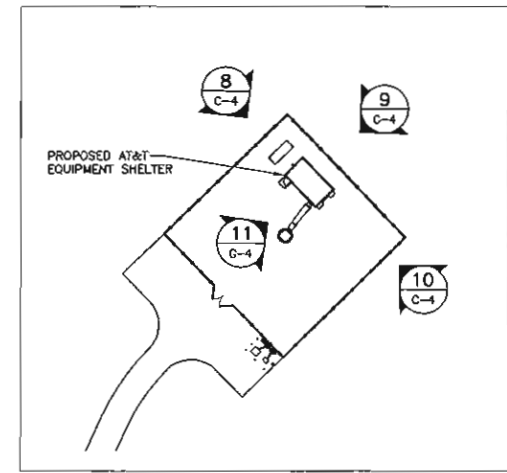
9 NORTHEAST SHELTER ELEVATION
C-4 SCALE: 3/16" = 1'-0"



10 SOUTHEAST SHELTER ELEVATION
C-4 SCALE: 3/16" = 1'-0"



11 SOUTHWEST SHELTER ELEVATION
C-4 SCALE: 3/16" = 1'-0"



SHELTER ELEVATION KEY PLAN
NOT TO SCALE

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CHK'D BY:	CFC
DATE:	03/19/12
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SITE DETAILS AND SHELTER ELEVATIONS	
C-4	
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