DESCRIPTION OF WORK:

CONSTRUCT A 150' LIGHT/MONOPOLE TOWER IN A 1,403 SQ. FT.± FENCED ENCLOSURE. CONSTRUCT CONCRETE SLABS TO SUPPORT UP TO THREE FUTURE SHELTERS. CONSTRUCT AREA TO PLACE 34'x8' TRASH COMPACTOR.

SBA

SBA PROPERTIES, INC.

SBA JOB#DC 04116-S/0130-019

PENN-BRANCH PLAZA

3200-3244 PENNSYLVANIA AVE. S.E.

GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
2. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE MATERIALS, LITTER, AND ALL FOREIGN SUBSTANCES. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED SURFACE.
3. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE- GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. OWNER/CONTRACTOR TO CONTACT "MISS UTILITY" AT 1-800-257-7777 MINIMUM 72 HOURS PRIOR TO THE START OF CONSTRUCTION FOR LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
6. THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.



LOCATION MAP

(NO SCALE)

DIRECTIONS

FROM THE WHITE HOUSE: TRAVEL EAST ON PENNSYLVANIA AVE UNTIL YOU CROSS BRANCH AVENUE. SITE IS LOCATED BEHIND THE BUILDING ON THE NORTH SIDE OF PENNSYLVANIA AVENUE.

GENERAL NOTES

7. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INCLUDING, BUT NOT LIMITED TO, THE BUILDING PERMIT, INSPECTIONS, CERTIFICATES, ETC.
9. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.
10. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA REGULATIONS FOR CONSTRUCTION.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
12. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER. NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
13. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
14. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER OR OWNER'S REPRESENTATIVE ON THE DRAWINGS.
15. CONTRACTOR SHALL GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE EQUIPMENT PAD AND THE TOWER.
16. ALL IMPROVEMENTS TO CONFORM WITH DISTRICT OF COLUMBIA CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.

STATE OF MARYLAND
CHARLES MEEKINS
NO. 6716
REGISTERED
PROFESSIONAL ENGINEER

5/29/01

CIVIL DRWGS. ONLY

NOTE: "ALL PLANS ARE TO BE USED FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION"

BZA
Case No. 16753
Exhibit No. 9

C.D. MEEKINS & ASSOCIATES, INC.
P.O. BOX 2151
ANNAPOLIS, MD. 21404-2151

OWNER INITIALS_____

COM: 00-3742

PROJECT INFORMATION

LOTS 835, 838, 839 AND 840 SQUARE 5539

SITE NAME: PENN BRANCH PLAZA

SITE ADDRESS: 3200-3244 PENNSYLVANIA AVE. S.E.
WASHINGTON D.C.

LATITUDE: N 38° 46' 04.15"
LONGITUDE: W 76° 59' 47.96"

ZONING CLASSIFICATION: R1-B

ZONING JURISDICTION: DISTRICT OF COLUMBIA

OCCUPANCY CLASSIFICATION: N/A

AREA OF DISTURBANCE FOR TELECOMMUNICATIONS: 1,613 S.F.± (0.04 Ac.±)
ACREAGE OF PARCEL: 20.013 Ac.±
LEASE AREA: 1,403 S.F.
ZONING APPLICATION #:

PROJECT DIRECTORY

OWNER:	PENN-BRANCH L.L.C. C/O WILLIAM JONES, V.P., OPERATIONS 5933 PLANK RD. SUITE 1 FREDERICKSBURG, VA. 22407-6231
APPLICANT:	SBA PROPERTIES INC. C/O KEVIN EVERHART 8401 CORPORATE DRIVE SUITE 560 LANDOVER, MARYLAND 20785
TELEPHONE CO.:	-
POWER CO.:	POTOMAC ELECTRIC POWER CO.

DRAWING INDEX

DRWG. #	TITLE	REV.#	DATE
T1	COVER SHEET	0	
C1	GENERAL NOTES & LEGEND	0	
C2	SITE PLAN	0	
C2A	SITE LAYOUT AND STAKING PLANS	0	
C3	GRADING, EROSION & SEDIMENT CONTROL PLANS	0	
C3A	GRADING, EROSION & SEDIMENT CONTROL PLANS	0	
C4	DETAILS	0	
C5	DETAILS	0	
E1	ELECTRICAL SITE PLAN	0	
E2	GROUNDING SITE PLAN	0	
E3	ELECTRICAL DETAILS AND NOTES	0	
E4	ELECTRICAL DETAILS	0	

LEGEND

EXISTING		PROPOSED
	FENCE	
(TYPE) STORM SEWER	STORM SEWER	
(TYPE) SANITARY SEWER	SANITARY SEWER	
(TYPE) WATER LINE	WATER LINE	
(TYPE) GAS LINE	GAS LINE	
UNDERGROUND ELECTRIC	UNDERGROUND ELECTRIC	
UNDERGROUND TELEPHONE	UNDERGROUND TELEPHONE	
OVERHEAD WIRES	OVERHEAD TELEPHONE	
	OVERHEAD ELECTRIC	
250	5' OR 10' CONTOUR LINE	250
200	1' OR 2' CONTOUR LINE	202
120.5	SPOT ELEVATION	120X5
	DITCH OR SWALE	
	STREAM OR RIVER	
	LAKE OR POND	
	PRIMARY PROPERTY OR R.O.W.	
	PROPERTY LINE	
	EASEMENT	
	CATCH BASIN	
	MANHOLE	
	HYDRANT	
	WATER VALVE	
	UTILITY POLE	
	LIGHT POLE, LAMP POST	
	SIGN	
	TELEPHONE PEDESTAL	
	IRON ROD, PIN, OR PIPE	
	CONCRETE MONUMENT	
	CURB	
	ASPHALT PAVEMENT	
	TEST PIT	
	SOIL BORING	
	BUILDING	
	TREES, SHRUBS, BUSHES	
	MATCH LINE	
	SILT FENCE	

1 — DETAIL IDENTIFICATION
C1 — SHEET NO. WHERE DETAIL IS LOCATED OR THE DWG. IT IS CALLED OUT.

GENERAL NOTES

1. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
2. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
3. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
4. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
5. BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
6. DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
7. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION THE OWNER IS NOT RESPONSIBLE FOR ANY SUCH CONDITIONS OR MATERIAL AND THEREFORE IS NOT LIABLE FOR ANY CHANGES ASSOCIATED (SUCH AS REMOBILIZATION, DOWN TIME, ETC.). ANY SUCH ACTION SHALL REQUIRE APPROVAL.
8. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNUR'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL.
2. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A36 UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
3. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
4. CONNECTIONS:
   A. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION ", 9TH EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
   B. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
   C. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.

CONCRETE NOTES

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE";
2. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
3. CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4" SLUMP, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
4. MAXIMUM AGGREGATE SIZE SHALL BE 1".
5. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 185
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMIXTURES:	NON-CHLORIDE CONTAINING

6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
7. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

   CONCRETE CAST AGAINST EARTH.....3 IN.

   CONCRETE EXPOSED TO EARTH OR WEATHER:
   #6 AND LARGER .....2 IN.
   #5 AND SMALLER & WWF .....1 1/2 IN.
9. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
10. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN EXISTING CONCRETE.
11. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.
12. DO NOT WELD OR TACKWELD REINFORCING STEEL.
13. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
14. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
15. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
16. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
17. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
18. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
19. FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
20. CONCRETE SHALL BE RUBBED TO A ROUGH GROUT FINISH. PADS SHALL BE SEALED BY STEEL TROWL.

STATE OF MARYLAND — C. DOUGLAS MEEKINS — NO. 6708 — REGISTERED — PROFESSIONAL ENGINEER

NOTE: "ALL PLANS ARE TO BE USED FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION"

OWNER INITIALS_____

C. D. MEEKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
159 MAIN STREET SECOND FLOOR, P.O. BOX 2151
ANNAPOLIS, MARYLAND 21404-2151
PHONE: 410-267-0744

NO.	REVISIONS	BY	DATE

SBA — PROJECT #

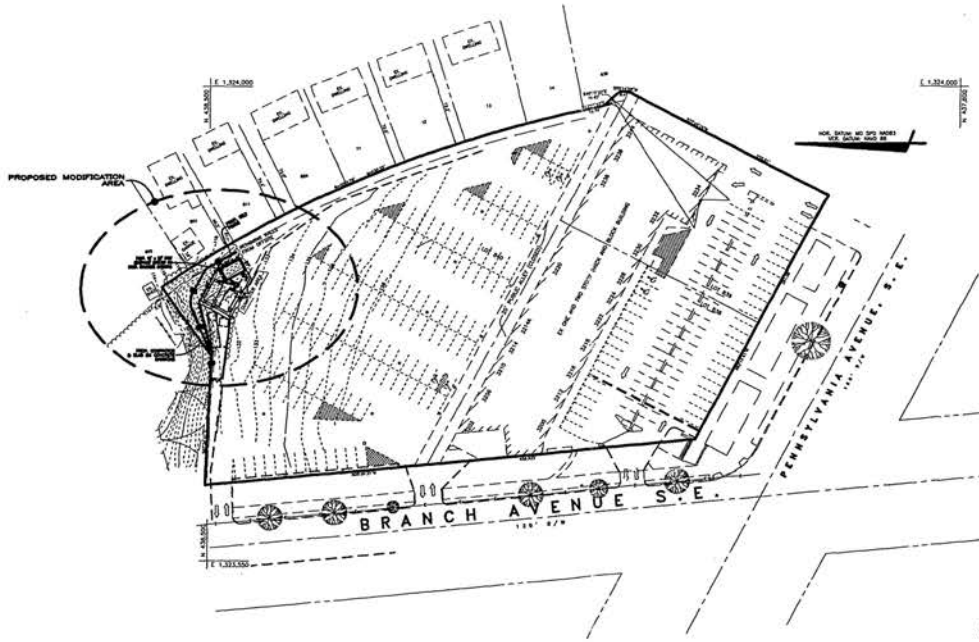
PREPARED UNDER THE SUPERVISION OF: C. DOUGLAS MEEKINS

6708	9153	4-5-01
P.E. NO.	L.S. NO.	DATE
DESIGNED: M.D.M.	CHECKED: A.V.B.	SCALE: AS SHOWN
DRAWN: J.L.C.	DATE:	REF:

PREPARED FOR
SBA PROPERTIES INC.
C/O KEVIN EVERHART
8401 CORPORATE DRIVE
SUITE 560
LANDOVER, MARYLAND 20785

GENERAL NOTES & LEGEND
PENN BRANCH PLAZA – SBA
3200 – 3244 PENNSYLVANIA AVE., S.E.
LOTS 835, 838, 839 AND 840, SQUARE 5539
WARD 7, ANC-7B, DISTRICT OF COLUMBIA

DATE: 4-5-01
COM. 00-3742
SBA JOB NUMBER
SHEET NO.
C1



NOTE: "ALL PLANS ARE TO BE USED FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION"

SITE PLAN

SCALE: 1"=40'

STATE OF MARYLAND
C. DOUGLAS MEEKINS
NO. 6703
REGISTERED
PROFESSIONAL ENGINEER

5.29.01

OWNER INITIALS_____

C. D. MEEKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
159 MAIN STREET SECOND FLOOR, P.O. BOX 2151
ANNAPOLIS, MARYLAND 21404-2151
PHONE: 410-267-0744

NO.	REVISIONS	BY	DATE

SBA PROPERTIES, INC.
PROJECT #9415

PREPARED UNDER THE SUPERVISION OF:
C. DOUGLAS MEEKINS

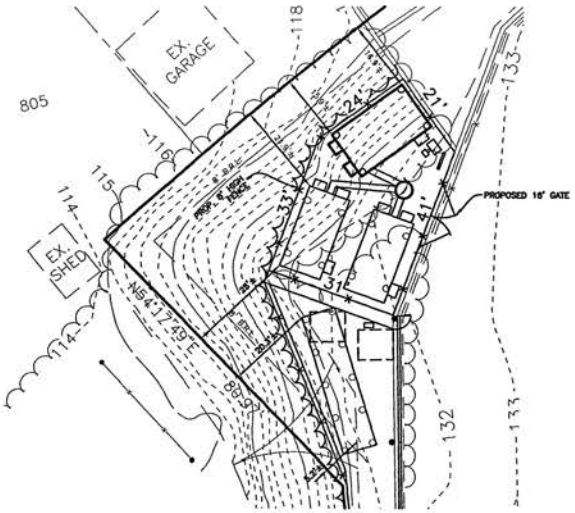
P.E. NO.	L.S. NO.	DATE
6703	9153	4-5-01

DESIGNED: M.D.M. | DRAWN: M.J.B., J.L.S. | CHECKED: A.V.S. | DATE: | SCALE: AS SHOWN | REF.:

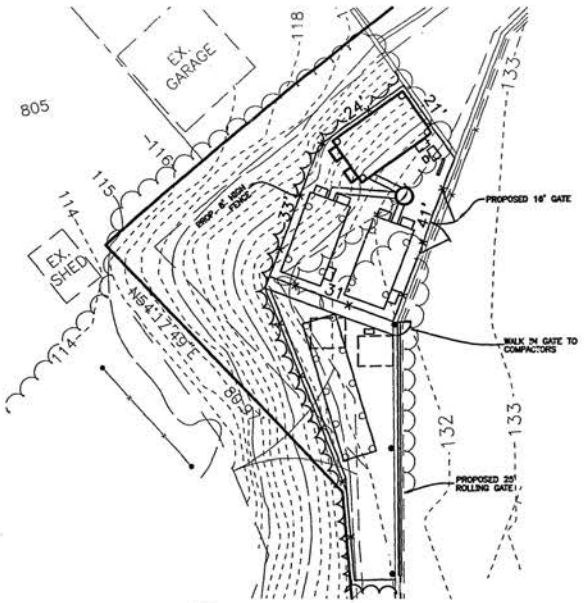
PREPARED FOR
SBA PROPERTIES INC.
C/O KEVIN EVERHART
8401 CORPORATE DRIVE
SUITE 560
LANDOVER, MARYLAND 20785

OVERALL SITE PLAN
PENN BRANCH PLAZA - SBA
3200 - 3244 PENNSYLVANIA AVE., S.E.
LOTS 835, 836, 839 AND 840, SQUARE 5539
WARD 7, ANC-7B, DISTRICT OF COLUMBIA

DATE: 4-5-01
CDM: 00-3742
SBA JOB NUMBER
SHEET NO.
C2



1 / C2 SITE LAYOUT
SCALE: 1"=10'



1 / C2 STAKING LAYOUT
SCALE: 1"=10'

SITE WORK GENERAL NOTES:

1. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
2. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE PCS EQUIPMENT AND TOWER AREAS.
3. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
4. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING ENGINEER.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
6. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND STRAWED.
7. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH APPLICABLE JURISDICTIONAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE LOCAL CODE ENFORCEMENT OFFICE.

NOTE: "ALL PLANS ARE TO BE USED FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION

STATE OF MARYLAND
C. DOUGLAS MEEKINS
NO. 6706
REGISTERED
PROFESSIONAL ENGINEER
5.29.01

OWNER INITIALS_____

C. D. MEEKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
159 MAIN STREET SECOND FLOOR, P.O. BOX 2151
ANNAPOLIS, MARYLAND 21404-2151
PHONE: 410-267-0744

NO.	REVISIONS	BY	DATE

SBA PROPERTIES, INC.
PROJECT #9415

PREPARED UNDER THE SUPERVISION OF: C. DOUGLAS MEEKINS

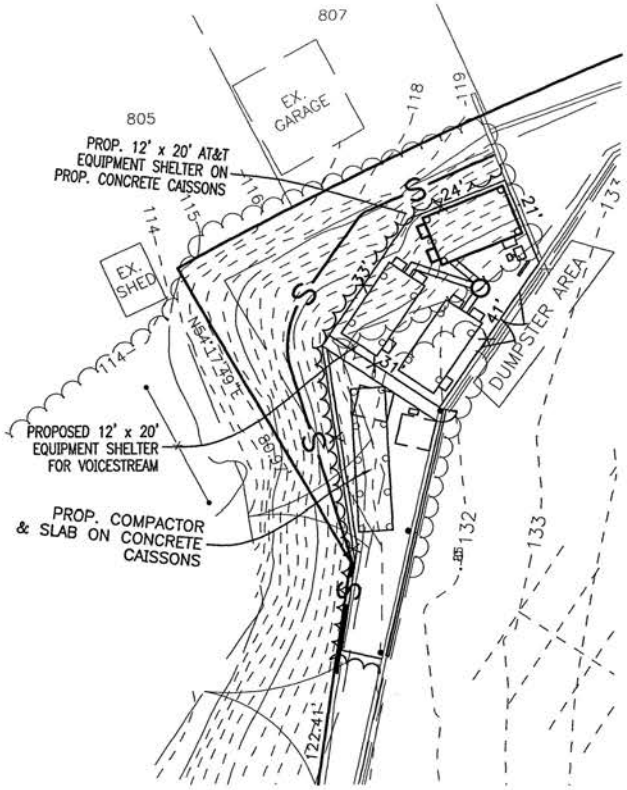
6706	9153	4-5-01
P.E. NO.	L.S. NO.	DATE

DESIGNED: M.D.M. | CHECKED: A.V.B.
DRAWN: M.J.B., J.L.S. | DATE: | SCALE: AS SHOWN | REF.:

PREPARED FOR
SBA PROPERTIES, INC.
C/O KEVIN EVERHART
8401 CORPORATE DRIVE
SUITE 560
LANDOVER, MARYLAND 20785

SITE LAYOUT & STAKING PLAN
PENN BRANCH PLAZA - SBA
3200 - 3244 PENNSYLVANIA AVE., S.E.
LOTS 835, 838, 839 AND 840, SQUARE 5539
WARD 7, ANC-7D, DISTRICT OF COLUMBIA

DATE: 4-5-01
COM: 00-3742
SBA JOB NUMBER
SHEET NO.
C2A



1 / C2 GRADING, EROSION & SEDIMENT CONTROL PLANS
SCALE: 1"=10'

STATE OF MARYLAND
C. DOUGLAS MEEKINS
NO. 6708
REGISTERED
PROFESSIONAL ENGINEER

5.29.01

OWNER INITIALS_____

C. D. MEEKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
159 MAIN STREET SECOND FLOOR, P.O. BOX 2151
ANNAPOLIS, MARYLAND 21404-2151
PHONE: 410-267-0744

NO.	REVISIONS	BY	DATE

SBA PROPERTIES, INC. PROJECT #

PREPARED UNDER THE SUPERVISION OF: C. DOUGLAS MEEKINS

P.E. NO.	L.S. NO.	DATE
6708	9153	4-5-01

DESIGNED: M.D.M. | CHECKED: A.V.B. | SCALE: AS SHOWN
DRAWN: J.L.S. | DATE: | REF.:

PREPARED FOR
SBA PROPERTIES INC.
C/O KEVIN EVERHART
8401 CORPORATE DRIVE
SUITE 550
LANDOVER, MARYLAND 20785

GRADING, EROSION & SEDIMENT CONTROL PLANS
PENN BRANCH PLAZA - SBA
3200 - 3244 PENNSYLVANIA AVE., S.E.
LOTS 835, 838, 839 AND 840, SQUARE 5539
WARD 7, ANC-7D, DISTRICT OF COLUMBIA

DATE: 4-5-01
CDM: 00-3742
SBA JOB NUMBER
SHEET NO. C3

EXCAVATION & GRADING NOTES:

1. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
2. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
3. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
4. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
5. BACKFILLING SHALL:
   - USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE;
   - BE FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS
   - BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR IS REQUIRED.
6. FILL PREPARATION:
   REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1" VERTICAL TO 4" HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
7. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
8. REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
9. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
11. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
12. ALL CUT AND FILL SLOPES SHALL BE 2" HORIZONTAL TO 1" VERTICAL MAXIMUM.
13. REMOVE ALL ORGANICS, ROCKS GREATER THAN 3", UNUSED FILL AND OTHER DEBRIS TO AN AREA OFF SITE IN A LEGAL MANNER.

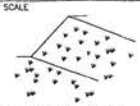
NOTE: "ALL PLANS ARE TO BE USED FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION"

OWNER INITIALS_____





Ds2 | 1 | C3,C3A — DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)
NO SCALE



Ds2 | 1 | C3,C3A — DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)
NO SCALE

ACTIVITY SCHEDULE	MAY 01	JUN 01	JUL 01	AUG 01
PROJECT CONSTRUCTION				
CLEARING, GRUBBING, AND GRADING				
MAINTAINING EROSION CONTROL MEASURES				
GRASSING				
REMOVING EROSION CONTROL MEASURES				
FINAL LANDSCAPING, GRASSING				

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

GENERAL EROSION & SEDIMENT CONTROL NOTES:

1. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS AT CONTRACTORS EXPENSE.
2. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS AND REMAIN UNTIL CONSTRUCTION IS COMPLETED.
3. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION.
   CONTRACTOR SHALL CALL ANNE ARUNDEL COUNTY FOR AN INSPECTION OF SOIL EROSION CONTROL MEASURES PRIOR TO BEGINNING GRADING ACTIVITY.
   ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED.
4. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
5. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR SELECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
6. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.
7. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
8. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
9. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 7 DAYS SHALL BE STABILIZED WITH SEEDING.
10. SEEDING:

A. SEEDING WITH MULCH (CONVENTIONAL SEEDING ON SLOPES LESS THAN 3:1) (HYDRAULIC SEEDING EQUIPMENT ON SLOPES 3:1 AND STEEPER)

AGRICULTURAL LIMESTONE	4000 LBS./acre
FERTILIZER 5-10-15	1500 lbs./acre
MULCH STRAW OR HAY	5000 lbs./acre

SEED SPECIES	APPLICATION RATE/ACRE	PLANNING DATES
HULLED COMMON BERMUDAGRASS	10lbs.	3/1 - 6/15
FESCUE	50lbs.	9/1 -10/31
FESCUE RYE GRASS	50lbs. 50lbs.	11/1 -2/28
HAY MULCH FOR TEMPORARY COVER	5000lbs.	6/15 -8/31

B. TOPDRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL
FERTILIZER (AMMONIUM NITRATE 33.5%) 300 lbs./acre

C. SECOUND-YEAR-FERTILIZER: (5-10-15 OR EQUIVALENT) 800 lbs./acre

HYDRAULIC SEEDING EQUIPMENT

WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER MULCH WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENEOUS MIXTURE, AND SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH BLOWER-TYPE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING. THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED.

CONVENTIONAL SEEDING EQUIPMENT

GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEADING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL.

11. CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
12. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.
13. ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
14. ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES.
15. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE ISSUING AUTHORITY.
16. THE ONLY MATERIAL TO BE BURIED ON-SITE IS VEGETATIVE MATERIAL. CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.
17. A 25 TO 35 FOOT UNDISTURBED VEGITATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.
18. FOR QUESTIONS CONCERNING EROSION & SEDIMENT CONTROL CONTACT JIM MORRIS 24 HRS/DAY AT (800) 503-0398/PAGER.

C. D. MEEKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
159 MAIN STREET SECOND FLOOR, P.O. BOX 2151
ANNAPOLIS, MARYLAND 21404-2151
PHONE: 410-267-0744

NO.	REVISIONS	BY	DATE

SBA PROPERTIES, INC. PROJECT #9415

PREPARED UNDER THE SUPERVISION OF: C. DOUGLAS MEEKINS

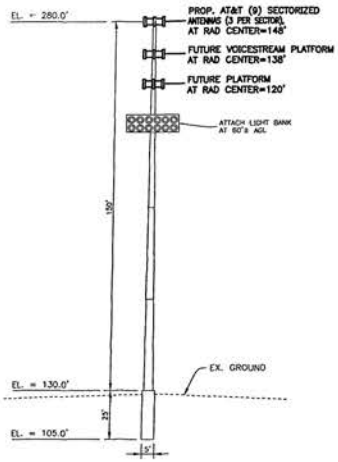
P.E. NO.	L.S. NO.	DATE
6708	9153	4-5-01

DESIGNED: W.D.M. | CHECKED: A.V.B. | SCALE: AS SHOWN
DRAWN: J.L.S. | DATE: | REF.:

PREPARED FOR
SBA PROPERTIES INC.
C/O KEVIN EVERHART
8401 CORPORATE DRIVE
SUITE 560
LANDOVER, MARYLAND 20785

GRADING EROSION & SEDIMENT CONTROL NOTES
PENN BRANCH PLAZA - SBA
3200 - 3244 PENNSYLVANIA AVE., S.E.
LOTS 835, 838, 839 AND 840, SQUARE 5539
WARD 7, ANC-7B, DISTRICT OF COLUMBIA

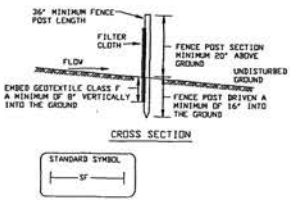
DATE: 4-5-01
CDM: 00-3742
SBA JOB NUMBER
SHEET NO. C3A



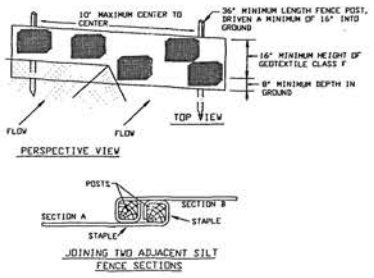
1 / C4 LIGHT POLE/MONOPOLE TOWER SCHEMATIC
NOT TO SCALE



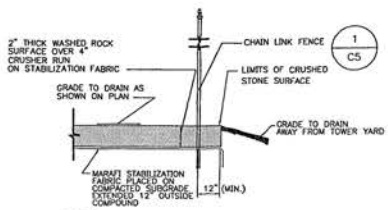
NOTE: "ALL PLANS ARE TO BE USED FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION"



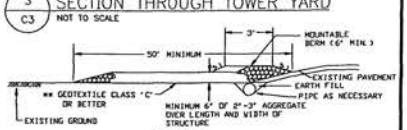
5 / C4 SILT FENCE SECTION
NOT TO SCALE

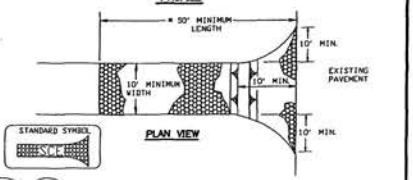


CO / C3,C3A 6 SILT FENCE ELEVATION
NOT TO SCALE



3 / C3 SECTION THROUGH TOWER YARD
NOT TO SCALE





CO / C3A 7 CONSTRUCTION EXIT DETAIL
NOT TO SCALE

OWNER INITIALS _____

C. D. MEEKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
159 MAIN STREET SECOND FLOOR, P.O. BOX 2151
ANNAPOLIS, MARYLAND 21404-2151
PHONE: 410-267-0744

NO.	REVISIONS	BY	DATE

SBA
PROPERTY #
PROJECT #

PREPARED UNDER THE SUPERVISION OF: C. DOUGLAS MEEKINS

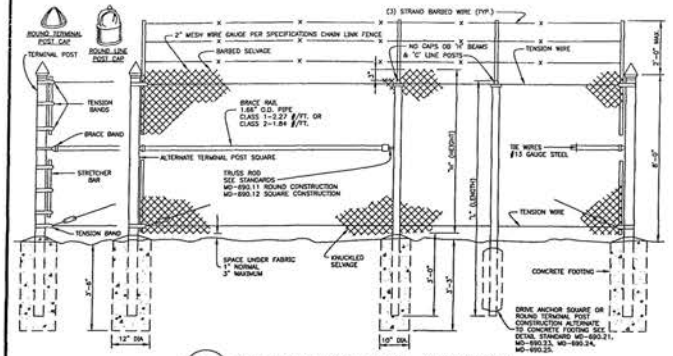
P.E. NO.	L.S. NO.	DATE
6708	9153	4-5-01

DESIGN M.D.M.	CHECKED A.Y.B.	SCALE: AS SHOWN
DRAWN J.L.S.	DATE:	REF.:

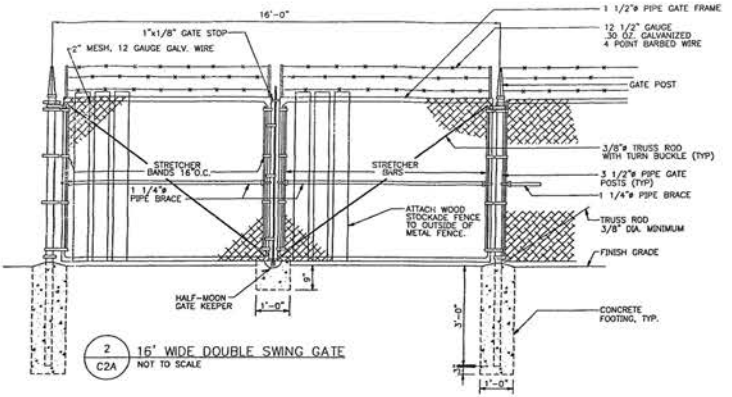
PREPARED FOR
SBA PROPERTIES INC.
C/O KEVIN EVERHART
8401 CORPORATE DRIVE
SUITE 560
LANDOVER, MARYLAND 20785

DETAILS
PENN BRANCH PLAZA - SBA
3200 - 3244 PENNSYLVANIA AVE., S.E.
LOTS 835, 838, 839 AND 840, SQUARE 5539
WARD 7, ANC-7B, DISTRICT OF COLUMBIA

DATE: 4-5-01
CDM: 00-3742
SBA JOB NUMBER
SHEET NO. C4



1 C2A,C4 CHAIN LINK FENCE DETAIL (ELEVATION)
NOT TO SCALE



2 C2A 16' WIDE DOUBLE SWING GATE
NOT TO SCALE

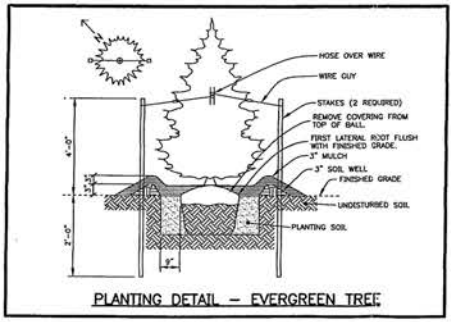
FENCE NOTES:

1. FENCING MATERIALS SHALL BE OF GALVANIZED STEEL.
2. POST, BRACES AND GATE FRAMES SHALL BE SCHEDULE 40 (STANDARD WEIGHT) PIPE. SIZES SPECIFIED ARE NOMINAL DIAMETER.
3. DOUBLE SWING GATE SHALL BE PROVIDED WITH TUBLAR PLUNGER BAR, 1 LOCK KEEPER, 1 LOCK KEEPER GUIDE, 2 LATCH FORKS, 2 FORK CATCHES, 1 HALF MOON/ROUND TOP CATCH FOR PLUNGER BAR, AND 2 GATES STOPS LOCATED AS DIRECTED BY THE ENGINEER.
4. POSTS, CAPS AND OTHER NECESSARY FENCE FITTINGS SHALL BE AS MANUFACTURED BY THE FENCE MANUFACTURE OR EQUAL. HINGES SHALL BE OF GALVANIZED STEEL.
5. POSTS SHALL BE SPACED EQUIDISTANT BUT NOT MORE THAN 10' O.C.
6. BOTTOM OF FENCE SHALL BE NO MORE THAN 3" ABOVE GRADE AT ANY SECTION.

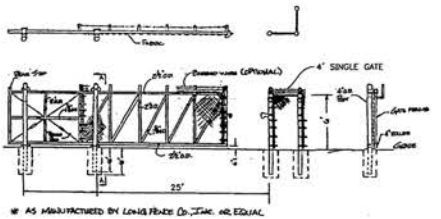


5.29.01

NOTE: "ALL PLANS ARE TO BE USED FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION"



PLANTING DETAIL – EVERGREEN TREE



* AS MANUFACTURED BY LONG FENCE CO., INC. OR EQUAL

SINGLE LEAF CANTELEVER SLIDE GATE (25')
NTS

OWNER INITIALS _____

C. D. MEEKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
159 MAIN STREET SECOND FLOOR, P.O. BOX 2151
ANNAPOLIS, MARYLAND 21404-2151
PHONE: 410-267-0744

NO.	REVISIONS	BY	DATE

SBA PROPERTIES, INC.
PROJECT #9415

PREPARED UNDER THE SUPERVISION OF: C. DOUGLAS MEEKINS

6708	9153	4-5-01
P.E. NO.	L.S. NO.	DATE

DESIGNED M.D.M.	CHECKED A.V.B.	SCALE: AS SHOWN
DRAWN J.L.S.	DATE:	REF.:

PREPARED FOR
SBA PROPERTIES INC.
C/O KEVIN EVERHART
8401 CORPORATE DRIVE
SUITE 560
LANDOVER, MARYLAND 20785

GENERAL NOTES & LEGEND
PENN BRANCH PLAZA – SBA
3200 – 3244 PENNSYLVANIA AVE., S.E.
LOTS 835, 836, 839 AND 840, SQUARE 5539
WARD 7, ANC-7B, DISTRICT OF COLUMBIA

DATE: 4-5-01
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SBA JOB NUMBER
-
SHEET NO.
C5

ABBREVIATIONS

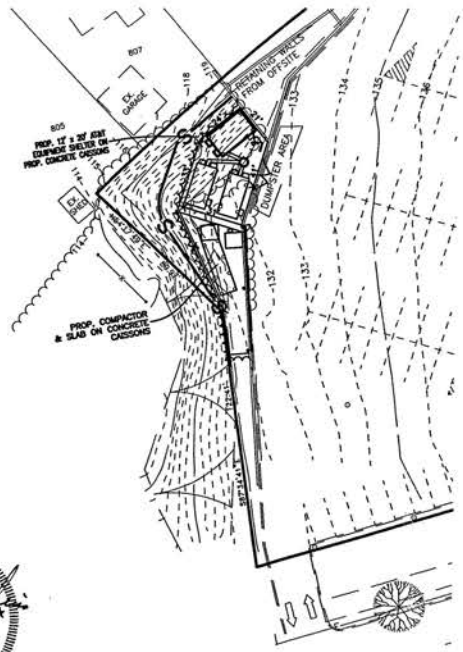
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISH GRADE
C	CONDUIT
CAB	CABINET
DWG	DRAWING
G	GROUND
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
SS	STAINLESS STEEL
SST	SELF SUPPORTING TOWER
TYP.	TYPICAL

CODED DRAWING NOTES:

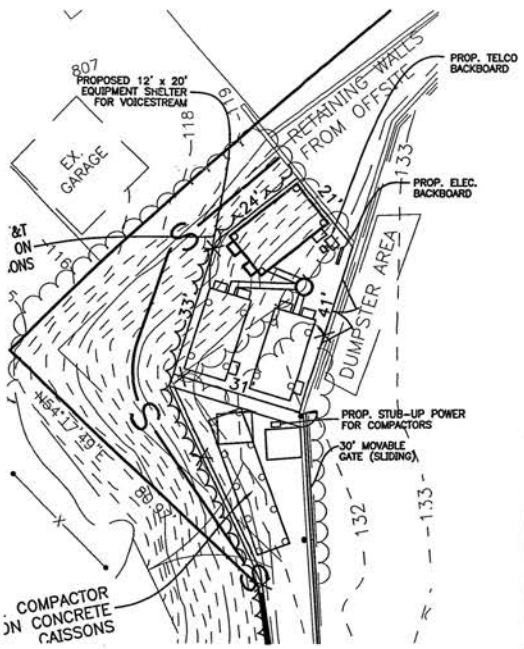
1. COORDINATE EXACT LOCATION WITH UTILITY COMPANY. STUB UP POWER AND TELEPHONE CONDUITS AND CAP IN RIGHT-OF-WAY OR AS DIRECTED BY UTILITY COMPANY.
2. RECEPTACLE MOUNTED TO TELEPHONE BACKBOARD.
3. AREA LIGHT, HUBBELL #OL-505-LOS OR APPROVED EQUAL. MOUNT 8'-0" AFG. PROVIDE WEATHERPROOF SWITCH AT 4'-0" AFG. MOUNT LIGHT AND SWITCH TO ELECTRIC BACKBOARD.
4. EXTEND AND CONNECT TO PANELBOARD. REFER TO 1/E3.
5. ALL CONDUITS SHALL UTILIZE LONG SWEEPS AT BENDS AND BE CAPPED WITH PLASTIC COVERS. NO DUCT TAPE.
6. FLASH TECHNOLOGY MODEL FTB 312 SERIES - DUAL FLASHING SYSTEM. MECHANICALLY FASTEN TO TOWER LEG AS DIRECTED BY MANUFACTURER. PROVIDE BEACON AT TOP OF TOWER, AND TWO SIDE MARKER LIGHTS AT TOWER MIDPOINT.
7. 5 PAIR BURIED SERVICE WIRE IN 3/4"C FROM FLASHING SYSTEM TO TELCO BOX.

ELECTRICAL SYMBOLS

- CIRCUIT BREAKER
- BURIED RACEWAY
- FUSED DISCONNECT SWITCH
- (X) INDICATES CODED NUMBER
- X / XX — REPRESENTS DETAIL NUMBER / REF. DRAWING NUMBER



1 / E1 OVERALL ELECTRICAL SITE PLAN
SCALE: 1"=20'



2 / E1 PARTIAL ELECTRICAL SITE PLAN
SCALE: 1"=10'

NOTE: "ALL PLANS ARE TO BE USED FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION"

NOTE: CALL TO CONFORM PORTHOLE DIRECTIONS FOR ICE BRIDGE LOCATION.

STATE OF MARYLAND — DOUGLAS MEEKINS — NO. 6708 REGISTERED PROFESSIONAL ENGINEER

OWNER INITIALS_____

C. D. MEEKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
159 MAIN STREET SECOND FLOOR, P.O. BOX 2151
ANNAPOLIS, MARYLAND 21404-2151
PHONE: 410-267-0744

NO.	REVISIONS	BY	DATE

SBA PROPERTIES, INC.
PROJECT #9415

PREPARED UNDER THE SUPERVISION OF: C. DOUGLAS MEEKINS

P.E. NO.	L.S. NO.	DATE
6708	9153	4-5-01

DESIGNED: M.D.M.	CHECKED: A.V.B.	SCALE: AS SHOWN
DRAWN: J.L.S.	DATE:	REF.:

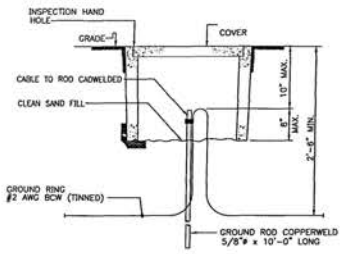
PREPARED FOR
SBA PROPERTIES INC.
C/O KEVIN EVERHART
8401 CORPORATE DRIVE
SUITE 560
LANDOVER, MARYLAND 20785

ELECTRICAL SITE PLAN
PENN BRANCH PLAZA - SBA
3200 - 3244 PENNSYLVANIA AVE., S.E.
LOTS 835, 838, 839 AND 840, SQUARE 5539
WARD 7, ANC-7B, DISTRICT OF COLUMBIA

DATE: 4-5-01
CDM: 00-3742
SBA JOB NUMBER
SHEET NO. E1

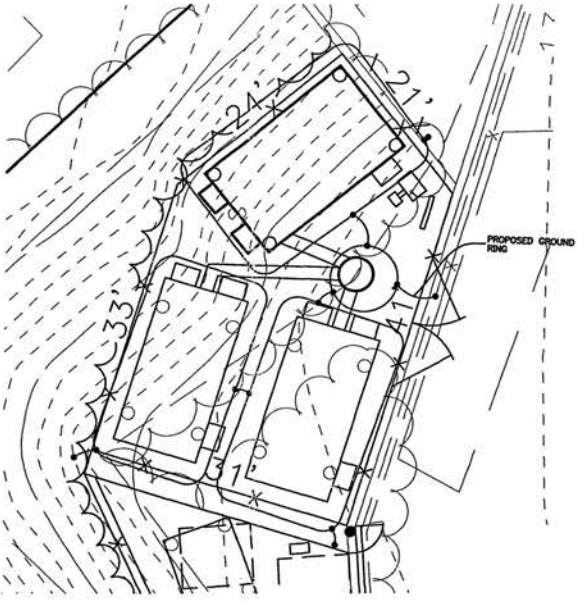
CODED DRAWING NOTES

1. GROUND RING (MIN. 1'-6" FROM OUTSIDE EDGE OF TOWER FOUNDATION)
2. CONNECT SERVICE DISCONNECTING MEANS TO GROUND ROD.
3. CONNECT FENCE TO GROUND RING. TYPICAL 4 PLACES.
4. CONNECT TOWER BASE TO GROUND ROD IN TOWER RING (TYP. FOR 3). CADWELD TO TOWER BASE PLATE OR GROUNDING LUG PROVIDED BY TOWER MANUFACTURER. DO NOT CADWELD TO HOLLOW TUBULAR TOWER.
5. CONNECT MAIN REBAR IN TOWER FOUNDATION TO GROUND RING. PROVIDE JUMPER FROM REBAR TO TOWER STEEL.
6. CONNECT GATE TO GATE POST (TYP. FOR 2) WITH 4/0 WELDING CABLE THAT HAS BEEN CRIMPED ON EACH END WITH A CAP FOR THE CADWELD PROCESS. LENGTH SHALL ALLOW FULL SWING OF GATE. CONNECT GATE POSTS TO GROUND ROD.
7. CONNECT EQUIPMENT FRAME TO GROUND RING.
8. PROVIDE GROUNDING ROD AT MAXIMUM 10' ON CENTER. OWNER TO INSPECT BEFORE BACKFILLING.
9. INSTALL TEST WELL ON OPPOSITE SIDE FROM ANCHOR TENNANT LOCATION.

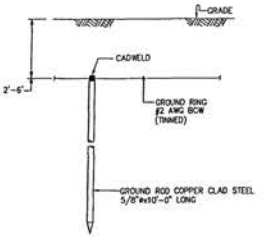


NOTE: INSPECTION HAND HOLE WILL BE CONCRETE AND SHALL BE A MINIMUM OF 12" DIA. x 18" DEEP. USE CHRISTY BRAND WELL BOX # F14 LID # F8G (CONCRETE REINFORCED LID)

2/E2 GROUND ROD WITH ACCESS
NOT TO SCALE



1/E2 SITE GROUNDING PLAN
SCALE: 1"=5'



3/E2 COPPER-CLAD STEEL GROUND ROD
NOT TO SCALE

GROUNDING SYMBOLS

- ⊠ GROUND ROD WITH ACCESS
- ⊗ GROUND ROD
- • CADWELD TYPE CONNECTION
- —UG— BURIED GROUND CABLE 30" BFG
- (X) INDICATES CODED NUMBER
- X / XX — REPRESENTS DETAIL NUMBER / REF. DRAWING NUMBER

NOTE: "ALL PLANS ARE TO BE USED FOR PERMITTING PURPOSES ONLY. NOT TO BE USED FOR CONSTRUCTION"

OWNER INITIALS_____

C. D. MEEKINS & ASSOCIATES, INC.
CONSULTING ENGINEERS & SURVEYORS
159 MAIN STREET SECOND FLOOR, P.O. BOX 2151
ANNAPOLIS, MARYLAND 21404-2151
PHONE: 410-267-0744

NO.	REVISIONS	BY	DATE

SBA PROPERTIES, INC. PROJECT #

PREPARED UNDER THE SUPERVISION OF: C. DOUGLAS MEEKINS
P.E. NO. 6708 | L.S. NO. 9153 | DATE 4-5-01
DESIGNED: M.D.M. | DRAWN: J.L.S. | CHECKED: A.V.B. | DATE: | SCALE: AS SHOWN | REF.:

PREPARED FOR
SBA PROPERTIES INC.
C/O KEVIN EVERHART
8401 CORPORATE DRIVE
SUITE 560
LANDOVER, MARYLAND 20785

GROUNDING SITE PLAN
PENN BRANCH PLAZA – SBA
3200 – 3244 PENNSYLVANIA AVE., S.E.
LOTS 835, 838, 839 AND 840, SQUARE 5539
WARD 7, ANC-7B, DISTRICT OF COLUMBIA

DATE: 4-5-01
COM: 00-3742
SBA JOB NUMBER
SHEET NO. E2

GENERAL NOTES

1. INSPECTIONS

A. GENERAL: DURING AND UPON COMPLETION OF THE WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT. INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REQUIREMENTS, AND THE LATEST EDITION OF NEC, NFC, NEMA, OSHA, SBC, AND UL.

B. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL DISTRICT AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.

C. INSPECTION AGENCY: APPROVED BY THE LOCAL AND/OR DISTRICT AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.

D. CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CERTIFICATES.

E. CONTRACTOR SHALL COORDINATE AND SCHEDULE INSPECTIONS TO CONFORM WITH CONSTRUCTION SCHEDULE.

2. HANGERS AND SUPPORTS

A. MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INHERENT PROPERTY, AND SHALL BE MANUFACTURERED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.

B. TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED RODS, ETC. AS INDICATED OR REQUIRED.

C. INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIALS, RACEWAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS SUITABLE FOR THE USE, MATERIALS AND LOADS ENCOUNTERED. PROVIDE ALL NECESSARY HARDWARE. PROVIDE CONDUIT SUPPORTS AT MAXIMUM 4 FT. O.C.

D: STRUCTURAL MEMBERS: DO NOT CUT, DRILL, OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER.

E. MISCELLANEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.

F. ONE HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

3. ENCLOSURES

A. NEMA 3R

4. HOLES, SLEEVES AND OPENINGS

A. GENERAL: PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL SURFACES DAMAGED TO MATCH SURROUNDING SURFACES.

B. CONDUIT PENETRATIONS: SIZE CORE DRILLED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1" IS LEFT AROUND THE CONDUIT, PIPE, ETC. WHEN OPENINGS ARE CUT IN LIEU OF CORE DRILLED. PROVIDE SLEEVE IN ROUGH OPENING. SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4" AND NOT MORE THAN 1" AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH SURROUNDING SURFACE.

5. CUTTING AND PATCHING

A. GENERAL: PROVIDE ALL CUTTING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK. THIS INCLUDES ANY AND ALL WORK NECESSARY TO: UNCOVER WORK TO PROVIDE FOR THE INSTALLATION OF ILL TIMED WORK, REMOVE AND REPLACE DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

B. REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS, USING SKILLED MECHANICS OF THE TRADES INVOLVED.

6. RACEWAY SYSTEMS

A. ALL ABOVE GRADE CONDUIT AND ALL CONDUIT ELBOWS SHALL BE RIGID GALVANIZED STEEL. UNLESS NOTED OTHERWISE. ALL BELOW GRADE CONDUIT (EXCEPT ELBOWS) SHALL BE SCHEDULE 40 PVC. TOWER LIGHT CIRCUIT FROM CONTROLLER TO LIGHTS SHALL BE SCHEDULE 40 PVC. RACEWAY BURIAL DEPTH SHALL BE AS PER NEC. USE CLEAN SAND BACKFILL FOR ALL BURIED RACEWAY SYSTEMS.

7. CONDUCTORS

USE 98% CONDUCTIVITY COPPER WITH TYPE XHHW-2 INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG, STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8. USE PRESSURE-TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.

8. ELECTRIC SERVICE

A. GENERAL: COMPLY WITH AND COORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.

B. SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.

9. TELEPHONE SERVICE

A. GENERAL: INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RULES AND REGULATIONS.

10. GROUNDING SYSTEM

A. INSTALLATION: INSTALL AS INDICATED ON THE DRAWINGS AND AS REQUIRED. OWNER'S REPRESENTATIVE WILL INSPECT CADWELDS AND CONDUCT MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED. USE CLEAN SAND AND CLAY BACKFILL FOR BURIED GROUND CONDUCTORS. CONTRACTOR IS RESPONSIBLE TO MEET OR EXCEED 5 OHMS RESISTANCE AND MAY UPGRADE SYSTEMS WITH OWNER APPROVAL.

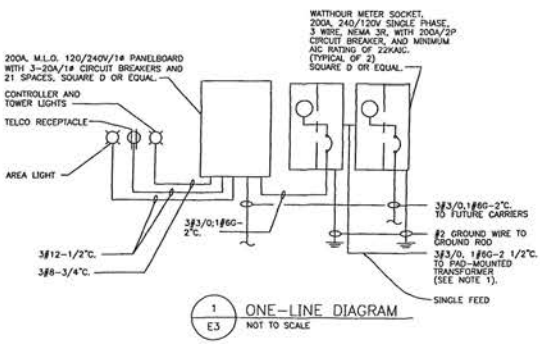
11. CHECKOUT, TESTING AND ADJUSTING

A. CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED CAPACITY.

B. POWER CONDUCTORS: CONTRACTOR SHALL CONDUCT A CONTINUITY & INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SWITCH & POWER CABINET.

C. WHEN SITE POWER IS DERIVED FROM 3 PHASE SOURCE LOAD READINGS WILL BE TAKEN AND RECORDED TO MAINTAIN A BALANCED LOAD AT THE PRIMARY SOURCE. RECORDS SHALL BE TURNED IN TO THE OWNER'S REPRESENTATIVE WITH FINAL SUBMITTAL PACKAGE.

12. ELECTRICAL CONTRACTOR TO PREPARE AND SUBMIT SCALED DRAWING OF ALL UTILITY INSTALLATION INCLUDING CONDUIT RUNS TO BE INCLUDED WITH CONTRACTORS FINAL PACKAGE.



1 / E3 ONE-LINE DIAGRAM
NOT TO SCALE

NOTE: SEE RISER DIAGRAM

1. PROVIDE SERVICE AS INDICATED IF SERVICE IS PROVIDED FROM PAD-MOUNTED TRANSFORMER. IF SERVICE IS FROM POLE-MOUNTED TRANSFORMER, PROVIDE CONDUCTORS AS INDICATED UNDERGROUND TO A FLUSH-IN-GRADE ELECTRIC PULLBOX (QUAZITE COMPOSILITE OR EQUAL) SIZED PER NEC. PROVIDE 4"C. WITH PULLWIRE FROM PULLBOX TO UTILITY POLE AND EXTEND UP POLE AS DIRECTED BY UTILITY COMPANY. POWER CO. SHALL PROVIDE CONDUCTORS FROM POLE-MOUNTED TRANSFORMER TO PULLBOX.

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SBA PROPERTIES, INC.
PROJECT #9415

PREPARED UNDER THE SUPERVISION OF: C. DOUGLAS MEEKINS

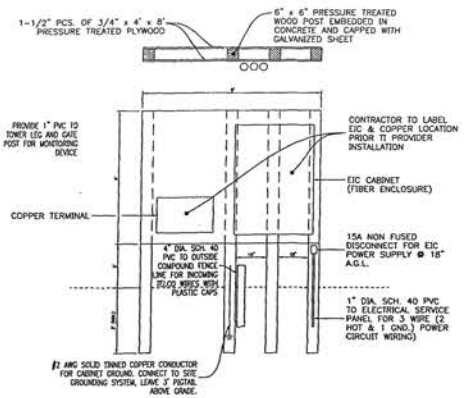
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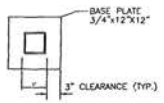
PREPARED FOR
SBA PROPERTIES INC.
C/O KEVIN EVERHART
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ELECTRICAL DETAILS & NOTES
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LOTS 835, 838, 839 AND 840, SQUARE 5539
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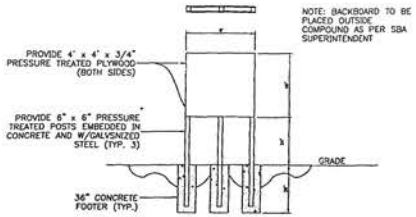
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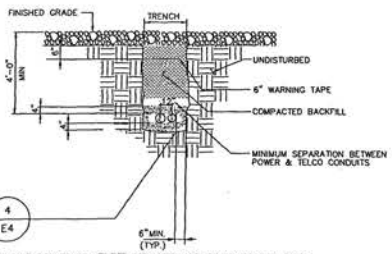
1 / E2 TELEPHONE SUPPORT FRAME DETAIL
NOT TO SCALE



DETAIL A-A



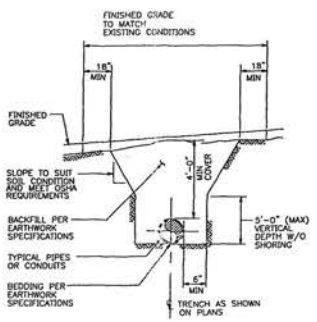
2 / E1 WOOD POWER SUPPORT FRAME DETAIL
NOT TO SCALE



4 / E4

SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS.

4 / E1 UNDERGROUND CONDUIT(S) ELECTRIC/TELEPHONE
NO SCALE



4 / E4 TYPICAL TRENCH
NO SCALE

NOTES

1. WATT-HOUR METER SOCKETS/SERVICE DISCONNECTING MEANS. SMECO TO PROVIDE METERS (SEE 1/E3). PROVIDE IN ACCORDANCE WITH SMECO REQUIREMENTS.
2. IF REQUIRED WIREWAY SHALL BE NEMA 3R GALVANIZED SHEET STEEL WITH HASP FOR PADLOCK.
3. ALL NEW STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 G90 AFTER FABRICATION.
4. FIELD ABRASIONS SHALL BE TOUCH UP PAINTED WITH ZINC RICH GALVANIZING REPAIR PAINT IN ACCORDANCE WITH ASTM A780.
5. BOLT 4'x8'x3/4" PRESSURE TREATED PLYWOOD BACKBOARD TO TELEPHONE SUPPORT FRAME. PROVIDE PRIMER COAT AND TWO COATS GRAY EXTERIOR ENAMEL TO PLYWOOD.
6. PROVIDE 200LB. TEST PULL WIRES IN EACH TELEPHONE AND POWER CONDUIT. STUB CONDUITS INTO ENCLOSURE AND LABEL.
7. PROVIDE 4'x4'x8"D. NEMA 3R LOCKABLE STEEL ENCLOSURE (SUN WEST SB SERIES OR EQUAL) FOR TELEPHONE CABLE TERMINATION OR MOUNTS FOR BELL ATLANTIC EIC CABINET. COORDINATE WITH TELCO PROVIDER.
8. PROVIDE 4" SQ.x2"D. WP BOX ON BACKBOARD. EXTEND 1#6G. FROM GROUND RING INTO BOX, LEAVE 10' FT. COILED WIRE IN BOX FOR FUTURE USE.
9. PROVIDE WEATHERPROOF GFI 20A/125VOLT RECEPTACLE 48" ABOVE FINISHED GRADE; MOUNT TO BACKBOARD.
10. ALL EXPOSED ENDS OF CONDUITS SHALL HAVE WEATHER PROOF CAPS NOT DUCT TAPE.

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