TowerCore
11500 Belmack Blvd. N.
Odessa, FL 33556
813-417-3747
Tony.sloan@towercorecontracting.com

Troy Crews
Columbia County
Building and Zoning
RE: Permit #000032030, New Foundation Design

Dear Mr. Crews,

I've enclosed the new foundation design along with the calculations for your review. There are no proposed location changes for the tower therefore we will utilize the same site plan. The rest of the drawings other than the proposed foundation design change are still in effect. Crews are ready to mobilize and our customer is eager to complete this site. If you could please review and let us know if everything is okay so we can re-start the development I would have appreciated. Thank you.

Tony Sloan

BOARD OF COUNTY COMMISSIONERS
OFFICE OF

BUILDING & ZONING

COLUMBIA COUNTY, FLORIDA

BUILDING PERMIT RECEIPT

RECEIPT NUMBER / PERMIT NUMBER 000032030 DATE 06/11/2014

APPLICANT TURK BEKTAS

OWNER NEW CINGULAR WIRELESS,PCS,LLC

CONTRACTOR TURK BEKTAS

PARCEL ID NUMBER 19-6S-16-03869-105 NUMBER OF EXISTING DWELLINGS 0

TYPE OF DEVELOPMENT COMMUNICATIONS TOWER

COMMENTS SE-0354

FEES:

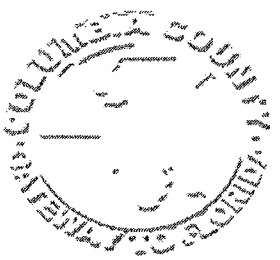
BUILDING PERMIT	950 00	CERTIFICATION FEE	0 00
ZONING FEE	50 00	SURCHARGE FEE	0 00
FLOOD ZONE FEE		FLOOD DEVELOPMENT PERMIT	
MOBILE HOME PERMIT		RELOCATION PERMIT	
TRAVEL TRAILER PERMIT		RECONNECTION PERMIT	
UTILITY POLE PERMIT		WASTE ASSESSMENT FEE	
FIRE FEE (5 ACRES OR LESS)		CULVERT PERMIT	
FIRE FEE (MORE THAN 5 ACRES)		RENEWAL FEE	

CHECK NUMBER 2047 **TOTAL FEES CHARGES 1000.00**

MAKE CHECKS PAYABLE TO BCC (Board of County Commissioners)

NOTE A SEPARATE CHECK IS REQUIRED FOR THE CULVERT WAIVER PERMITS

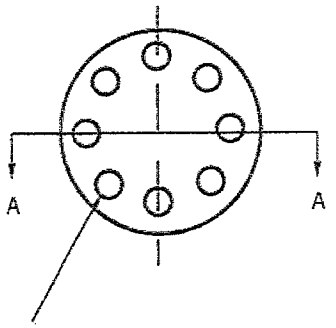
135 NE HERNANDO AVE.
SUITE B-21
LAKE CITY, FL 32055
Phone: 386-758-1008
Fax: 386-758-2160



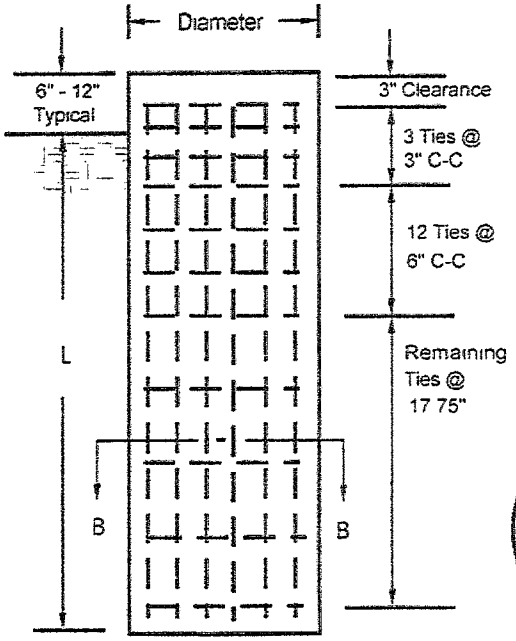
Revised Shaft
ok T.C.
11-18-14

Foundation Layout			Drilled Shaft Information			Tower Loading		
Number of Shafts	"X" Dim	"Y" Dim	Shaft Diameter (IN)	Embedment Depth "L" (FT)	Long. Rebar	Axial Comp. (Kips)	OTM (FT-Kips)	Shear (Kips)
1	*	*	108"**	36'	54 - #10	68.1 K	6,414.9 FT-K	46.3 K

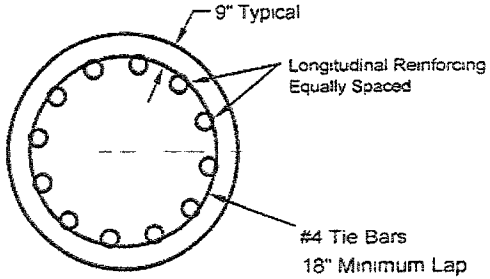
** If needed for ground stability, permanent casing may be installed in the top 20'



Bolt Circle = 71"
Based on Tower Drawings



Section "A-A"



Section "B-B"

Notes:

1 Drilled shafts shall be installed in accordance with ACI-336 (Latest Edition).

2 Concrete work shall be in accordance with ACI-318 (Latest Edition), and have a minimum 28 day strength of 4,000 psi

3 All reinforcing steel shall be deformed billet steel conforming to ASTM A-615, Grade 60.

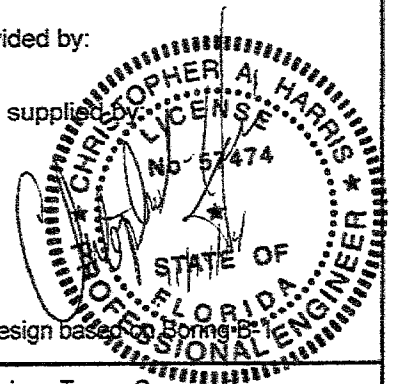
4 All reinforcing steel shall have a minimum of three inches (3") coverage.

5. RWH Engineering will not be responsible for foundation integrity if tower is set within 72 hours of concrete placement, or without prior verification of concrete strength.

6 Final length of foundation may vary depending on actual in situ soil conditions relative to boring data supplied

7 Tower foundation design based on soil boring data provided by:
EGSci Project #2014 10579344 Dated 9/12/14 Boring B-1

8 Tower layout and foundation design loading conditions supplied by:
Nello Drawing #227350 Dated 2/28/14 EIA/TIA-222-G



11/14/14 - Rev #1 - Design based on Boring B-1

Date 10/31/14	American Tower Corporation
	195' Monopole Foundation
Scale None	Ft. White West Site
	Columbia County, Florida
Approved By:	RWH Engineering, Inc.

12300 44th St N Clearwater FL 33762 Phone (727) 572 9200 Fax. (727) 572-1122 RWHarrisinc.com

Summary of Pile Response(s)

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, lbs, and Load 2 = Moment, in-lbs
Load Type 2: Load 1 = Shear, lbs, and Load 2 = Slope, radians
Load Type 3: Load 1 = Shear, lbs, and Load 2 = Rotational Stiffness, in-lbs/radian
Load Type 4: Load 1 = Top Deflection, inches, and Load 2 = Moment, in-lbs
Load Type 5: Load 1 = Top Deflection, inches, and Load 2 = Slope, radians

Load Case No.	Load Type No.	Pile-head Condition 1 V(lbs) or y(inches)	Pile-head Condition 2 in-lb, rad., or in-lb/rad.	Axial Loading lbs	Pile-head Deflection inches	Maximum Moment in Pile in-lbs	Maximum Shear in Pile lbs	Pile-head Rotation radians
1	1	V = 23150.	M = 38489400.	68100.	0.56962138	40858917.	-207070.	-0.00203110
2	1	V = 46300.	M = 76978800.	68100.	1.87059431	81356533	-430321.	-0.00851663
3	1	V = 61733.	M = 1.026E+08	98800.	3.08277523	108170116	-610898.	-0.01413742

The analysis ended normally.

bending properties relative to the magnitude of bending moment developed in the pile.

Output Summary for Load Case No. 3:

Pile-head deflection	=	3.0827752	inches
Computed slope at pile head	=	-0.0141374	radians
Maximum bending moment	=	1081701l6.	inch-lbs
Maximum shear force	=	-6l0898.	lbs
Depth of maximum bending moment	=	9.6200000	feet below pile head
Depth of maximum shear force	=	23.3100000	feet below pile head
Number of iterations	=	49	
Number of zero deflection points	=	1	

Pile-head Deflection vs. Pile Length for Load Case 3

Boundary Condition Type 1, Shear and Moment

Shear	=	61733.	lb
Moment	=	1025l8400.	in- lb
Axial Load	=	90800.	lb

Pile Length feet	Pile Head Deflection inches	Maximum Moment In-lbs	Maximum Shear lbs
37.0000	3.0827752	1081701l6.	-6l0898.
35.1500	3.7997140	107818776.	-676484.
33.3000	4.4391053	107603664.	-713140.
31.4500	5.2369314	107408364.	-745197.
29.6000	5.9532051	107337240.	-773414.
27.7500	10.1183336	107456069.	-856038.

24.420	-0.1139	44126562	-601875.	-0.008438	0.000	2.959E+13	1360.0403	53818.	0.000
24.790	-0.1513	41471043	-594773.	-0.008431	0.000	2.961E+13	1839.2778	53959.	0.000
25.160	-0.1888	38851780.	-535508.	-0.008425	0.000	2.964E+13	2334.0346	54899.	0.000
25.530	-0.2262	36278527.	-574012.	-0.008420	0.000	2.966E+13	2844.3155	55839.	0.000
25.900	-0.2635	33761344.	-550216.	-0.008415	0.000	2.968E+13	3370.1262	56779.	0.000
26.270	-0.3009	31310595.	-544051.	-0.008410	0.000	2.971E+13	3911.4734	57719.	0.000
26.640	-0.3382	28936955.	-525447.	-0.008405	0.000	2.973E+13	4468.3644	58660.	0.000
27.010	-0.3755	26651408.	-504337.	-0.008401	0.000	2.975E+13	5040.8075	59600.	0.000
27.380	-0.4128	24465216.	-480650.	-0.008397	0.000	2.977E+13	5628.8113	60540.	0.000
27.750	-0.4501	22389995.	-454319.	-0.008394	0.000	2.979E+13	6232.3847	61480.	0.000
28.120	-0.4874	20437635.	-425272.	-0.008391	0.000	2.980E+13	6851.5370	62421.	0.000
28.490	-0.5246	18620342.	-393442.	0.008388	0.000	2.982E+13	7486.2773	63361.	0.000
28.860	-0.5618	16950630.	-358957.	-0.008385	0.000	2.984E+13	8047.8560	63600.	0.000
29.230	-0.5991	15439568.	-322723.	-0.008383	0.000	2.985E+13	8273.6093	61321.	0.000
29.600	-0.6363	14091689.	-298078.	-0.008380	0.000	2.986E+13	2827.8923	19733.	0.000
29.970	-0.6735	12799396.	-285432.	-0.008378	0.000	2.987E+13	2868.3558	18910.	0.000
30.340	-0.7107	11563728.	-272610.	-0.008377	0.000	2.988E+13	2907.1636	18163.	0.000
30.710	-0.7479	10385371.	-259620.	-0.008375	0.000	2.989E+13	2944.4707	17481.	0.000
31.080	-0.7850	9265058.	-246466.	-0.008374	0.000	2.990E+13	2980.4050	16856.	0.000
31.450	-0.8222	8203568.	-233156.	-0.008372	0.000	2.991E+13	3015.0799	16281.	0.000
31.820	-0.8594	7201379.	-219695.	-0.008371	0.000	2.993E+13	3048.5916	15750.	0.000
32.190	-0.8966	6259357.	-206087.	-0.008370	0.000	2.993E+13	3081.0301	15258.	0.000
32.560	-0.9337	5378072	-192338.	0.008369	0.000	2.993E+13	3112.4717	14800.	0.000
32.930	-0.9709	4558145	-178451	0.008368	0.000	2.993E+13	3142.9854	14374.	0.000
33.300	-1.0080	3800178	-164430	-0.008368	0.000	2.993E+13	3172.6331	13974.	0.000
33.670	-1.0452	3104754	-150280.	-0.008367	0.000	2.993E+13	3201.4703	13600.	0.000
34.040	-1.0823	2472442	-136003.	-0.008367	0.000	2.993E+13	3229.5471	13248.	0.000
34.410	-1.1195	1903797	-121603.	-0.008367	0.000	2.993E+13	3256.9090	12917.	0.000
34.780	-1.1566	1399356.	-107757.	-0.008366	0.000	2.993E+13	3283.6149	14897.	0.000
35.150	-1.1938	971417.	-88459.	-0.008366	0.000	2.993E+13	3911.4048	14548.	0.000
35.520	-1.2309	620585.	-71026.	-0.008366	0.000	2.993E+13	3941.4821	14217.	0.000
35.890	-1.2681	347454.	-53468.	-0.008366	0.000	2.993E+13	3970.8867	13904.	0.000
36.260	-1.3052	152603.	-35766.	-0.008366	0.000	2.993E+13	3999.6521	13606.	0.000
36.630	-1.3424	36500.	-17945.	-0.008366	0.000	2.993E+13	4027.8098	13322.	0.000
37.000	-1.3795	0.000	0.000	-0.008366	0.000	2.993E+13	4055.3890	6526.2649	0.000

* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear

9.620	1.6013	1.082E+08	-2145.9534	-0.0115	0.000	4.638E+12	-2865.0509	7943.8295	0.000
9.990	1.5505	1.081E+08	-15285.	-0.0114	0.000	4.638E+12	-3053.6198	8744.2920	0.000
10.360	1.5001	1.080E+08	-29253.	-0.0113	0.000	4.638E+12	-3238.1996	9584.2805	0.000
10.730	1.4502	1.079E+08	-44031.	-0.0112	0.000	4.638E+12	-3418.2607	10465.	0.000
11.100	1.4007	1.077E+08	-59596.	-0.0111	0.000	4.639E+12	-3593.2800	11390.	0.000
11.470	1.3517	1.074E+08	-75927.	-0.0110	0.000	4.639E+12	-3762.7395	12359.	0.000
11.840	1.3032	1.070E+08	-92996.	-0.0109	0.000	4.640E+12	-3926.1244	13376.	0.000
12.210	1.2551	1.065E+08	-110776.	-0.0108	0.000	4.641E+12	-4082.9219	14444.	0.000
12.580	1.2074	1.060E+08	-129237.	-0.0107	0.000	4.642E+12	-4232.9487	15565.	0.000
12.950	1.1602	1.054E+08	-148359.	-0.0106	0.000	4.644E+12	-4380.4257	16763.	0.000
13.320	1.1135	1.047E+08	-168119.	-0.0105	0.000	4.645E+12	-4520.4108	18025.	0.000
13.690	1.0672	1.039E+08	-188482.	-0.0104	0.000	4.647E+12	-4652.4034	19356.	0.000
14.060	1.0213	1.030E+08	-209413.	-0.0103	0.000	4.649E+12	-4775.8963	20762.	0.000
14.430	0.9759	1.021E+08	-230872.	-0.0102	0.000	4.651E+12	-4890.3774	22249.	0.000
14.800	0.9309	1.010E+08	-252819.	-0.0101	0.000	4.653E+12	-4995.3072	23825.	0.000
15.170	0.8864	99837344.	-275208.	-0.009989	0.000	4.656E+12	-5090.1555	25493.	0.000
15.540	0.8422	98569255.	-297995.	-0.009894	0.000	4.659E+12	-5174.3577	27278	0.000
15.910	0.7985	97199122.	-321132.	-0.009801	0.000	4.662E+12	-5247.3298	29177	0.000
16.280	0.7552	95725509.	-344565.	-0.009709	0.000	4.665E+12	-5308.4590	31210	0.000
16.650	0.7123	94147210.	-368200.	-0.009619	0.000	4.669E+12	-5357.9271	33274	0.000
17.020	0.6698	92463645.	-391508.	-0.009530	0.000	4.673E+12	-5161.1897	34214	0.000
17.390	0.6277	90678299.	-413999.	-0.009443	0.000	4.678E+12	-4969.5368	35154	0.000
17.760	0.5859	88794951.	-435605.	-0.009358	0.000	4.683E+12	-4763.1518	36094.	0.000
18.130	0.5446	86817670.	-456263.	-0.009275	0.000	4.688E+12	-4542.2082	37035.	0.000
18.500	0.5036	84750813.	-475908.	-0.009194	0.000	4.694E+12	-4306.8686	37975.	0.000
18.870	0.4629	82599019.	-494477.	-0.009115	0.000	4.700E+12	-4057.2851	38915.	0.000
19.240	0.4226	80367210.	-511905.	-0.009038	0.000	4.706E+12	-3793.5986	39855.	0.000
19.610	0.3827	78060585.	-528133.	-0.008963	0.000	4.713E+12	-3515.9390	40795.	0.000
19.980	0.3430	75684619.	-543096	-0.008891	0.000	4.721E+12	-3224.4246	41736.	0.000
20.350	0.3037	73245059.	-556735	-0.008821	0.000	4.729E+12	-2919.1625	42676.	0.000
20.720	0.2647	70747924.	-568988	-0.008753	0.000	4.738E+12	2600.2481	43615.	0.000
21.090	0.2260	68199503.	-579795	-0.008688	0.000	4.747E+12	-2267.7656	44555.	0.000
21.460	0.1875	65606349.	589096.	-0.008626	0.000	4.758E+12	1921.7874	45497.	0.000
21.830	0.1494	62975286.	-596831	-0.008566	0.000	4.769E+12	1562.3748	46437.	0.000
22.200	0.1115	60313399.	-602940	-0.008508	0.000	4.781E+12	-1189.5775	47377.	0.000
22.570	0.0738	57628038.	-607365	-0.008476	0.000	2.946E+13	-803.4110	48317.	0.000
22.940	0.0362	54926836.	-610840	-0.008468	0.000	2.949E+13	-401.7652	49257.	0.000
23.310	-0.0013644	52217710.	-610893	-0.008460	0.000	2.951E+13	15.4152	50198.	0.000
23.680	-0.0339	49508884.	-609869	-0.008452	0.000	2.954E+13	448.1111	51138.	0.000
24.050	-0.0754	46808890.	-606884	-0.008445	0.000	2.956E+13	896.3188	52078.	0.000

Ft White West (61)-FL.lp7o

Computed Values of Pile Loading and Deflection
for Lateral Loading for Load Case Number 3

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 61733.3 lbs
Applied moment at pile head = 102638400.0 in-lbs
Axial thrust load on pile head = 90800.0 lbs

Depth X feet	Deflect. y inches	Bending Moment in-lbs	Shear Force lbs	Slope S radians	Total Stress psi*	Bending Stiffness lb-in^2	Soil Res. p lb/in	Soil Spr. Es*h lb/inch	Distrib Lat. Load lb/inch
0.00	3.0828	1.026E+08	61735.	-0.0141	0.000	4.650E+12	0.000	0.000	0.000
0.370	3.0202	1.029E+08	61733.	-0.0140	0.000	4.650E+12	0.000	0.000	0.000
0.740	2.9581	1.032E+08	61733.	-0.0139	0.000	4.648E+12	0.000	0.000	0.000
1.110	2.8964	1.035E+08	61733.	-0.0138	0.000	4.648E+12	0.000	0.000	0.000
1.480	2.8352	1.038E+08	61733.	-0.0137	0.000	4.647E+12	0.000	0.000	0.000
1.850	2.7744	1.040E+08	61733.	-0.0136	0.000	4.646E+12	0.000	0.000	0.000
2.220	2.7140	1.043E+08	61733.	-0.0135	0.000	4.646E+12	0.000	0.000	0.000
2.590	2.6541	1.046E+08	61733.	-0.0134	0.000	4.645E+12	0.000	0.000	0.000
2.960	2.5946	1.049E+08	61733.	-0.0133	0.000	4.645E+12	0.000	0.000	0.000
3.330	2.5356	1.052E+08	61511.	-0.0132	0.000	4.644E+12	-100.1054	175.2899	0.000
3.700	2.4770	1.054E+08	60828.	-0.0131	0.000	4.643E+12	-207.4390	371.8270	0.000
4.070	2.4189	1.057E+08	59680.	-0.0130	0.000	4.643E+12	-309.6439	568.3641	0.000
4.440	2.3612	1.060E+08	58090.	-0.0129	0.000	4.642E+12	-406.7795	764.9012	0.000
4.810	2.3040	1.062E+08	56079.	-0.0128	0.000	4.642E+12	-498.9059	961.4383	0.000
5.180	2.2472	1.065E+08	53671.	-0.0127	0.000	4.641E+12	-586.0831	1157.9755	0.000
5.550	2.1909	1.067E+08	50886.	-0.0126	0.000	4.641E+12	-668.3712	1354.5126	0.000
5.920	2.1350	1.069E+08	47746.	-0.0125	0.000	4.640E+12	-745.8308	1551.0497	0.000
6.290	2.0796	1.072E+08	44273.	-0.0124	0.000	4.640E+12	-818.5225	1747.5868	0.000
6.660	2.0246	1.073E+08	40488.	-0.0123	0.000	4.639E+12	-886.5069	1944.1240	0.000
7.030	1.9701	1.075E+08	36412.	-0.0122	0.000	4.639E+12	-949.8450	2140.6611	0.000
7.400	1.9160	1.077E+08	32064.	-0.0121	0.000	4.639E+12	1008.5977	2337.1982	0.000
7.770	1.8624	1.078E+08	27465.	-0.0120	0.000	4.638E+12	-1062.8261	2533.7353	0.000
8.140	1.8093	1.079E+08	22636.	-0.0119	0.000	4.638E+12	-1112.5915	2730.2724	0.000
8.510	1.7566	1.080E+08	17595.	-0.0118	0.000	4.638E+12	-1157.9548	2926.8096	0.000
8.880	1.7044	1.081E+08	12363.	-0.0117	0.000	4.638E+12	1198.9775	3123.3467	0.000
9.250	1.6526	1.081E+08	6957.7594	-0.0116	0.000	4.638E+12	-1235.7206	3319.8838	0.000

Output Summary for Load Case No. 2:

Pile-head deflection	=	1.8705943	inches
Computed slope at pile head	=	-0.0089166	radians
Maximum bending moment	=	81356533.	inch-lbs
Maximum shear force	=	-430321.	lbs
Depth of maximum bending moment	=	9.9900000	feet below pile head
Depth of maximum shear force	=	23.6800000	feet below pile head
Number of iterations	=	52	
Number of zero deflection points	=	1	

Pile Head Deflection vs. Pile Length for Load Case 2

Boundary Condition Type 1, Shear and Moment

Shear	=	46300.	lb
Moment	=	76978800.	in- lb
Axial Load	=	68100.	lb

Pile Length Feet	Pile Head Deflection inches	Maximum Moment in-lbs	Maximum Shear lbs
37.0000	1.8705943	81356533.	-430321.
35.1500	2.2498857	81144708.	-475623.
33.3000	2.5553534	80980557.	-509757.
31.4500	2.9593293	80804510.	-542079.
29.6000	3.3390896	80677503.	-564782.
27.7500	4.9144083	80346127.	-619022.
25.9000	8.2998628	80317678.	-681442.

24.790	-0.0717	33056289.	-424190.	-0.004973	0.000	2.969E+13	871.1797	53959.	0.000
25.160	-0.0938	31182976.	-419682.	-0.004968	0.000	2.971E+13	1159.2205	54899.	0.000
25.530	-0.1158	29332515.	-413876.	-0.004963	0.000	2.973E+13	1456.3473	55839.	0.000
25.900	-0.1378	27510762.	-406730.	-0.004959	0.000	2.974E+13	1762.5629	56779.	0.000
26.270	-0.1598	25723755.	-398204.	-0.004955	0.000	2.976E+13	2077.8787	57719.	0.000
26.640	-0.1818	23977708.	-388258.	-0.004951	0.000	2.977E+13	2402.2749	58660.	0 000
27.010	-0.2038	22279018.	-376851.	-0.004948	0.000	2.979E+13	2735.7803	59600.	0 000
27.380	-0.2258	20634259.	-363944.	-0.004945	0.000	2.980E+13	3078.3923	60540.	0.000
27.750	-0.2477	19050186.	-349495.	-0.004942	0.000	2.982E+13	3430.1167	61480.	0.000
28.120	-0.2697	17533731.	-333464.	-0.004939	0.000	2.983E+13	3790.9595	62421.	0.000
28.490	-0.2916	16092009.	-315811.	-0.004937	0.000	2.985E+13	4160.9272	63361.	0.000
28.860	-0.3135	14732314.	-296495.	-0.004934	0.000	2.986E+13	4540.0264	64301.	0.000
29.230	-0.3354	13462117.	-275475.	-0.004932	0.000	2.987E+13	4928.2634	65241.	0.000
29.600	-0.3573	12289075.	-259100.	-0.004930	0.000	2.988E+13	2447.9496	30421.	0.000
29.970	-0.3792	11164289.	-248150.	-0.004929	0.000	2.988E+13	2484 6074	29094.	0.000
30.340	-0.4011	10088483.	-237040.	-0.004927	0.000	2.989E+13	2519.6995	27895.	0.000
30.710	-0.4229	9062358.	-225778	-0.004926	0.000	2 990E+13	2553.3734	26806.	0.000
31.080	-0.4448	8086552.	-214369	-0.004924	0 000	2 992E+13	2585.7568	25811.	0.000
31.450	-0.4667	7161728.	-202819	-0.004923	0.000	2.993E+13	2616.9599	24899.	0.000
31.820	-0.4885	6288494	-191133.	-0.004922	0.000	2.993E+13	2647.0788	24059.	0.000
32.190	-0.5104	5467443.	-179315.	-0 004921	0.000	2.993E+13	2676.1978	23282.	0.000
32.560	-0.5322	4699149.	-167371.	-0 004921	0.000	2.993E+13	2704.3917	22561.	0.000
32.930	-0.5541	3984168.	-155302.	-0.004920	0.000	2.993E+13	2731.7265	21891.	0.000
33.300	-0.5759	3323039.	-143115.	-0.004919	0.000	2.993E+13	2758.2615	21265.	0.000
33.670	-0.5977	2716286.	-130811.	-0.004919	0.000	2.993E+13	2784.0494	20680.	0.000
34.040	-0 6196	2164416.	-118394.	-0.004919	0.000	2.993E+13	2809.1380	20131.	0.000
34.410	-0 6414	1667923.	-105867.	-0.004918	0.000	2.993E+13	2833.5703	19614.	0.000
34.780	-0 6633	1227291.	-92030.	-0.004918	0.000	2.993E+13	3376.9098	22606.	0.000
35.150	-0.6851	853230.	-77025.	-0.004918	0.000	2.993E+13	3404.3671	22063.	0.000
35.520	-0.7069	546281.	-61850.	-0.004918	0.000	2.993E+13	3431.1750	21550.	0.000
35.890	-0.7288	306973.	-46558.	-0.004918	0.000	2.993E+13	3457.3685	21064.	0.000
36.260	-0.7506	135822.	-31150.	-0.004918	0.000	2.993E+13	3482.9795	20603.	0.000
36.630	-0.7724	33333.	-15630.	-0.004918	0.000	2.993E+13	3508.0375	20164.	0.000
37.000	-0.7943	0.000	0.000	-0.004918	0.000	2.993E+13	3532.5700	9873.6353	0.000

* This analysis computed pile response using nonlinear moment-curvature relationships. Values of total stress due to combined axial and bending stresses are computed only for elastic sections only and do not equal the actual stresses in concrete and steel. Stresses in concrete and steel may be interpolated from the output for nonlinear bending properties relative to the magnitude of bending moment developed in the pile.

9.990	0.9229	813565333.	-4887.5433	-0.006873	0.000	4.663E+12	-2628.7272	12647.	0.000
10.360	0.8926	813109888.	-16908.	-0.006796	0.000	4.663E+12	-2785.9055	13858.	0.000
10.730	0.8626	812104991.	-29617.	-0.006718	0.000	4.664E+12	-2939.0052	15128.	0.000
11.100	0.8329	810520491.	-42996	-0.006641	0.000	4.664E+12	-3087.5886	16459.	0.000
11.470	0.8036	808327071.	-57024	-0.006564	0.000	4.665E+12	-3231.2244	17853.	0.000
11.840	0.7746	805496441.	-71678.	-0.006487	0.000	4.665E+12	-3369.4869	19314.	0.000
12.210	0.7460	802001321.	-86932.	-0.006411	0.000	4.666E+12	-3501.9550	20843.	0.000
12.580	0.7177	797815621.	102762	-0.006335	0.000	4.667E+12	-3628.5318	22448.	0.000
12.950	0.6897	792914371.	-119050	-0.006259	0.000	4.668E+12	-3708.2881	23871.	0.000
13.320	0.6621	787281851.	-135496	-0.006184	0.000	4.670E+12	-3699.9844	24812.	0.000
13.690	0.6348	780919711.	-151834	-0.006109	0.000	4.671E+12	-3681.9096	25752.	0.000
14.060	0.6079	773831501.	-168170	-0.006035	0.000	4.673E+12	-3654.2579	26692.	0.000
14.430	0.5812	766022691.	184313	-0.005962	0.000	4.675E+12	-3617.2194	27632.	0.000
14.800	0.5549	757500581.	-200271	-0.005890	0.000	4.677E+12	-3570.9794	28573.	0.000
15.170	0.5289	748274281.	-216003	-0.005819	0.000	4.680E+12	-3515.7180	29513.	0.000
15.540	0.5032	738354681.	-231471	-0.005748	0.000	4.683E+12	-3451.6105	30453.	0.000
15.910	0.4779	727754441.	-246634.	-0.005679	0.000	4.685E+12	-3378.8261	31393.	0.000
16.280	0.4528	716487911.	-261456.	-0.005610	0.000	4.689E+12	-3297.5285	32333	0.000
16.650	0.4281	704571111.	-275898.	-0.005543	0.000	4.692E+12	-3207.8752	33274.	0.000
17.020	0.4036	692021711.	-289923.	-0.005477	0.000	4.696E+12	-3110.0172	34214.	0.000
17.390	0.3794	678859031.	-303497.	-0.005412	0.000	4.700E+12	-3004.0991	35154.	0.000
17.760	0.3555	665103931.	-316582.	-0.005349	0.000	4.704E+12	-2890.2586	36094.	0.000
18.130	0.3319	650778871.	-329145.	-0.005287	0.000	4.709E+12	-2768.6263	37035.	0.000
18.500	0.3086	635907831.	-341151.	-0.005226	0.000	4.713E+12	-2639.3256	37975.	0.000
18.870	0.2855	620516301.	-352565.	-0.005167	0.000	4.719E+12	-2502.4727	38915.	0.000
19.240	0.2627	604631271.	-363356.	-0.005109	0.000	4.725E+12	-2358.1761	39855.	0.000
19.610	0.2401	588281181.	-373490.	-0.005073	0.000	1.712E+13	-2206.5367	40795.	0.000
19.980	0.2177	571496051.	-382930.	-0.005061	0.000	2.947E+13	-2045.9802	41736.	0.000
20.350	0.1952	554307581.	-391638.	-0.005053	0.000	2.948E+13	-1876.2658	42676.	0.000
20.720	0.1728	536749191.	-399571.	-0.005044	0.000	2.950E+13	-1697.4064	43616.	0.000
21.090	0.1504	518856161.	-406690.	-0.005037	0.000	2.952E+13	-1509.4135	44556.	0.000
21.460	0.1281	500665541.	-412955.	-0.005029	0.000	2.953E+13	-1312.2974	45497.	0.000
21.830	0.1058	482216211.	-418323.	-0.005021	0.000	2.955E+13	-1106.0673	46437.	0.000
22.200	0.0835	463548801.	-422756.	-0.005014	0.000	2.957E+13	-890.7310	47377.	0.000
22.570	0.0612	444706781.	-426213.	-0.005008	0.000	2.959E+13	-666.2953	48317.	0.000
22.940	0.0390	425731381.	-428653.	-0.005001	0.000	2.960E+13	-432.7656	49257.	0.000
23.310	0.0168	406671661.	-430036.	-0.004995	0.000	2.962E+13	-190.1462	50198.	0.000
23.680	-0.005345	387574431.	-430321.	-0.004989	0.000	2.964E+13	61.5596	51138.	0.000
24.050	-0.0275	368489321.	-429469.	-0.004983	0.000	2.966E+13	322.3497	52078.	0.000
24.420	-0.0496	349467731.	-427438.	-0.004978	0.000	2.967E+13	592.2231	53018.	0.000

for Lateral Loading for Load Case Number 2

Pile-head conditions are Shear and Moment (Loading Type 1)

Shear force at pile head = 46300.0 lbs
Applied moment at pile head = 76978800.0 in-lbs
Axial thrust load on pile head = 68100.0 lbs

Depth X feet	Deflect. y inches	Bending Moment in-lbs	Shear Force lbs	Slope S radians	Total Stress psi*	Bending Stiffness lb-in^2	Soil Res. p lb/in	Soil Spr. Es*h lb/inch	Distrib Lat. Load lb/inch
0.00	1.8706	76978800.	46300.	-0.008917	0.000	4.674E+12	0.000	0.000	0.000
0.370	1.8312	77187057.	46300.	-0.008843	0.000	4.674E+12	0.000	0.000	0.000
0.740	1.7921	77395292.	46300.	-0.008770	0.000	4.673E+12	0.000	0.000	0.000
1.110	1.7533	77603504.	46300.	-0.008696	0.000	4.673E+12	0.000	0.000	0.000
1.480	1.7148	77811695.	46300.	-0.008623	0.000	4.672E+12	0.000	0.000	0.000
1.850	1.6767	78019863.	46300.	-0.008548	0.000	4.672E+12	0.000	0.000	0.000
2.220	1.6389	78228008.	46300.	-0.008474	0.000	4.671E+12	0.000	0.000	0.000
2.590	1.6015	78436131.	46300.	-0.008400	0.000	4.670E+12	0.000	0.000	0.000
2.960	1.5643	78644232.	46300.	-0.008325	0.000	4.670E+12	0.000	0.000	0.000
3.330	1.5275	78852310.	46166.	-0.008250	0.000	4.669E+12	-60.3070	175.2899	0.000
3.700	1.4911	79059176.	45755.	-0.008175	0.000	4.669E+12	-124.8702	371.8270	0.000
4.070	1.4549	79263558.	45064.	-0.008100	0.000	4.668E+12	-186.2479	568.3641	0.000
4.440	1.4192	79464246.	44108.	-0.008024	0.000	4.668E+12	-244.4847	764.9012	0.000
4.810	1.3837	79660091.	42900.	-0.007949	0.000	4.667E+12	-299.6251	961.4383	0.000
5.180	1.3486	79850006.	41454.	-0.007873	0.000	4.667E+12	-351.7139	1157.9755	0.000
5.550	1.3138	80032965.	39784.	-0.007797	0.000	4.667E+12	-400.7962	1354.5126	0.000
5.920	1.2793	80208000.	37902.	-0.007720	0.000	4.666E+12	-446.9168	1551.0497	0.000
6.290	1.2452	80374201.	35822.	-0.007644	0.000	4.666E+12	-490.1211	1747.5868	0.000
6.660	1.2115	80530717.	33556.	-0.007568	0.000	4.665E+12	-530.4544	1944.1240	0.000
7.030	1.1780	80676753.	31117.	-0.007491	0.000	4.665E+12	-567.9621	2140.6611	0.000
7.400	1.1449	80811569.	28518.	-0.007414	0.000	4.665E+12	-602.6897	2337.1982	0.000
7.770	1.1122	80934481.	25772.	-0.007337	0.000	4.664E+12	-634.6829	2533.7353	0.000
8.140	1.0798	81044857.	22888.	-0.007260	0.000	4.664E+12	-663.9873	2730.2724	0.000
8.510	1.0477	81142121.	19881.	-0.007183	0.000	4.664E+12	-690.6486	2926.8096	0.000
8.880	1.0160	81225746.	16761.	-0.007105	0.000	4.664E+12	-714.7127	3123.3467	0.000
9.250	0.9846	81295258.	13540.	-0.007028	0.000	4.663E+12	-736.2254	3319.8838	0.000
9.620	0.9536	81350233.	6427.0051	-0.006951	0.000	4.663E+12	-2467.9162	11491.	0.000

Pile-head deflection	=	0.5696214	inches
Computed slope at pile head	=	-0.0020331	radians
Maximum bending moment	=	40858917.	inch-lbs
Maximum shear force	=	-207070.	lbs
Depth of maximum bending moment	=	10.3600000	feet below pile head
Depth of maximum shear force	=	25.9000000	feet below pile head
Number of iterations	=	22	
Number of zero deflection points	=	1	

Pile-head Deflection vs. Pile Length for Load Case 1

Boundary Condition Type 1, Shear and Moment

Shear	=	23150.	lb
Moment	=	38489400.	in- lb
Axial Load	=	68100.	lb

Pile Length feet	Pile Head Deflection inches	Maximum Moment ln-lbs	Maximum Shear lbs
37.0000	0.5696214	40858917.	-207070.
35.1500	0.7442185	40756470.	-222215.
33.3000	0.8973385	40657925.	-238799.
31.4500	1.0576334	40573577.	-255375.
29.6000	1.1891559	40506291.	-267275.
27.7500	1.5264730	40375926.	-289854.
25.9000	2.1087076	40234818.	-320294.
24.0500	3.3362940	40081302.	-361973.
22.2000	5.9177757	39987835.	-404454.
20.3500	10.9020022	40336089.	-494109.

26.270	-0.006651	16736605.	-206899.	-0.001658	0.000	2.984E+13	86.4589	57719.	0.000
26.640	-0.0140	15819329.	-206296.	-0.001655	0.000	2.985E+13	185.0436	58660.	0.000
27.010	-0.0214	14905700.	-205249.	-0.001653	0.000	2.986E+13	286.6033	59600.	0.000
27.380	-0.0287	13997720.	-203744.	-0.001651	0.000	2.987E+13	391.1396	60540.	0.000
27.750	-0.0360	13097450.	-201769.	-0.001649	0.000	2.987E+13	498.6544	61480.	0.000
28.120	-0.0433	12207010.	-199309.	-0.001647	0.000	2.988E+13	609.1504	62421.	0.000
28.490	-0.0506	11328578.	-196353.	-0.001645	0.000	2.988E+13	722.6305	63361.	0.000
28.860	-0.0579	10464391.	-192886.	-0.001644	0.000	2.989E+13	839.0979	64301.	0.000
29.230	-0.0652	9616745.	-188895.	-0.001642	0.000	2.990E+13	958.5563	65241.	0.000
29.600	-0.0725	8787996.	-183119.	-0.001641	0.000	2.991E+13	1643.1936	100539.	0.000
29.970	-0.0798	7991639.	-175735.	-0.001640	0.000	2.992E+13	1682.9726	93632.	0.000
30.340	-0.0871	7228460.	-168180.	-0.001639	0.000	2.993E+13	1720.0895	87700.	0.000
30.710	-0.0944	6499189.	-160466.	-0.001637	0.000	2.993E+13	1754.9261	82580.	0.000
31.080	-0.1016	5804514.	-152601.	-0.001637	0.000	2.993E+13	1787.7847	78109.	0.000
31.450	-0.1089	5145082.	-144594.	-0.001636	0.000	2.993E+13	1818.9094	74167.	0.000
31.820	-0.1161	4521507.	-136452.	-0.001635	0.000	2.993E+13	1848.5001	70662.	0.000
32.190	-0.1234	3934373.	-128182.	-0.001634	0.000	2.993E+13	1876.7231	67521.	0.000
32.560	-0.1307	3384236.	-119790.	-0.001634	0.000	2.993E+13	1903.7179	64689.	0.000
32.930	-0.1379	2871627.	-111280.	-0.001633	0.000	2.993E+13	1929.6030	62120.	0.000
33.300	-0.1452	2397058.	-102657.	-0.001633	0.000	2.993E+13	1954.4801	59778.	0.000
33.670	-0.1524	1961018.	-93926.	-0.001633	0.000	2.993E+13	1978.4368	57633.	0.000
34.040	-0.1597	1563981.	-85091.	-0.001632	0.000	2.993E+13	2001.5495	55659.	0.000
34.410	-0.1669	1206401.	-76154.	-0.001632	0.000	2.993E+13	2023.8851	53836.	0.000
34.780	-0.1742	888719.	-66294.	-0.001632	0.000	2.993E+13	2417.4120	61629.	0.000
35.150	-0.1814	618693.	-55506.	-0.001632	0.000	2.993E+13	2442.1725	59773.	0.000
35.520	-0.1887	396811.	-44610.	-0.001632	0.000	2.993E+13	2466.2007	58043.	0.000
35.890	-0.1959	223547.	-33608.	-0.001632	0.000	2.993E+13	2489.5456	56425.	0.000
36.260	-0.2031	99360.	-22504.	-0.001632	0.000	2.993E+13	2512.2512	54909.	0.000
36.630	-0.2104	24700.	-11300.	-0.001632	0.000	2.993E+13	2534.3571	53485.	0.000
37.000	-0.2176	0.000	0.000	-0.001632	0.000	2.993E+13	2555.8992	26072.	0.000

* This analysis computed pile response using nonlinear moment-curvature relationships
  Values of total stress due to combined axial and bending stresses are computed only
  for elastic sections only and do not equal the actual stresses in concrete and steel.
  Stresses in concrete and steel may be interpolated from the output for nonlinear
  bending properties relative to the magnitude of bending moment developed in the pile.

Output Summary for Load Case No. 1

11.470	0.3024	40714808.	-19894.	-0.001848	0.000	2.962E+13	-1369 7727	20111.	0.000
11.840	0.2942	40613535.	-26032.	-0.001841	0.000	2.962E+13	-1394 9847	21051.	0.000
12.210	0.2861	40484759.	-32274.	-0.001835	0.000	2.962E+13	-1416 8621	21991.	0.000
12.580	0.2779	40328051.	-38606.	-0.001829	0.000	2.962E+13	-1435 4217	22931.	0.000
12.950	0.2698	40143043.	-45013.	-0.001823	0.000	2.963E+13	-1450.6799	23871.	0.000
13.320	0.2617	39929435.	-51481.	-0.001817	0.000	2.963E+13	-1462.6532	24812.	0.000
13.690	0.2537	39686991.	-57994.	-0.001811	0.000	2.963E+13	-1471.3576	25752	0.000
14.060	0.2457	39415540.	-64539.	-0.001805	0.000	2.963E+13	-1476.8091	26692.	0.000
14.430	0.2377	39114974.	-71101.	-0.001800	0.000	2.964E+13	-1479.0233	27632.	0.000
14.800	0.2297	38785249.	-77666.	-0.001794	0.000	2.964E+13	-1478.0155	28573.	0.000
15.170	0.2217	38426385.	-84219.	-0.001788	0.000	2.964E+13	-1473.8008	29513.	0.000
15.540	0.2138	38038466.	-90746.	-0.001782	0.000	2.965E+13	-1466.3940	30453.	0.000
15.910	0.2059	37621637.	-97233.	-0.001777	0.000	2.965E+13	-1455.8094	31393.	0.000
16.280	0.1980	37176107.	-103667.	-0.001771	0.000	2.966E+13	-1442.0610	32333.	0.000
16.650	0.1902	36702147.	-110032.	-0.001765	0.000	2.966E+13	-1425.1626	33274.	0.000
17.020	0.1823	36200091.	-116315.	-0.001760	0.000	2.966E+13	-1405.1272	34214.	0.000
17.390	0.1745	35670333.	-122503.	-0.001755	0.000	2.967E+13	-1381.9678	35154.	0.000
17.760	0.1668	35113329.	-128580.	-0.001749	0.000	2.967E+13	-1355.6968	36094	0.000
18.130	0.1590	34529598.	-134534.	-0.001744	0.000	2.968E+13	-1326.3260	37035.	0.000
18.500	0.1513	33919720.	-140351.	-0.001739	0.000	2.968E+13	-1293.8671	37975.	0.000
18.870	0.1436	33284332.	-146017.	-0.001734	0.000	2.969E+13	-1258.3308	38915.	0.000
19.240	0.1359	32624137.	-151518.	-0.001729	0.000	2.969E+13	-1219.7279	39855.	0.000
19.610	0.1282	31939896.	-156841.	-0.001724	0.000	2.970E+13	-1178.0681	40795.	0.000
19.980	0.1206	31232428.	-161973.	-0.001719	0.000	2.971E+13	-1133.3609	41736.	0.000
20.350	0.1129	30502617.	-166899.	-0.001715	0.000	2.972E+13	-1085.6154	42676.	0.000
20.720	0.1053	29751403.	-171606.	-0.001710	0.000	2.972E+13	-1034.8397	43616.	0.000
21.090	0.0978	28979788.	-176082.	-0.001706	0.000	2.973E+13	-981.0418	44556.	0.000
21.460	0.0902	28188831.	-180311.	-0.001702	0.000	2.974E+13	-924.2288	45497.	0.000
21.830	0.0826	27379653.	-184282.	-0.001697	0.000	2.974E+13	-864.4075	46437.	0.000
22.200	0.0751	26553433.	-187981.	-0.001693	0.000	2.975E+13	-801.5839	47377.	0.000
22.570	0.0676	25711410.	-191393.	-0.001690	0.000	2.976E+13	-735.7636	48317.	0.000
22.940	0.0601	24854881.	-194507.	-0.001686	0.000	2.977E+13	-666.9516	49257.	0.000
23.310	0.0526	23985203.	-197309.	-0.001682	0.000	2.977E+13	-595.1521	50198.	0.000
23.680	0.0452	23103792.	-199786.	-0.001679	0.000	2.978E+13	-520.3689	51138.	0.000
24.050	0.0377	22212121.	-201924.	-0.001675	0.000	2.979E+13	-442.6053	52078.	0.000
24.420	0.0303	21311723.	-203710.	-0.001672	0.000	2.980E+13	-361.8638	53018.	0.000
24.790	0.0229	20404191.	-205130.	-0.001669	0.000	2.981E+13	-278.1465	53959.	0.000
25.160	0.0155	19491175.	-206173.	-0.001666	0.000	2.981E+13	-191.4550	54899.	0.000
25.530	0.008094	18574384.	-206824.	-0.001663	0.000	2.982E+13	-101.7900	55839.	0.000
25.900	0.000716	17655585.	-207070.	-0.001660	0.000	2.983E+13	-9.1521	56779.	0.000

F White West ( )-FL. 970

Shear force at pile head	150.0	lbs
Applied moment at pile head	384400.0	in-lbs
Axial thrust load on pile head	100.0	lbs

Depth X feet	Deflect. y inches	Bending Moment in-lbs	Shear Force lbs	Slope S radians	Total Stress psi*	Bending Stiffness lb-in^2	Soil Res. p lb/in	Soil Spr. Es*h lb/inch	Distrib. Lat. Load lb/inch
.00	0.569	384400.	231.	-0.02033	0.00	2.64E+1	0.000	0.00	.000
.370	0.560	385300.	231.	-0.02027	0.00	2.64E+1	0.000	0.00	.000
.740	0.551	386198.	231.	-0.02022	0.00	2.64E+1	0.000	0.00	.000
1.110	0.542	387594.	231.	-0.02016	0.00	2.64E+1	0.000	0.00	.000
1.480	0.533	389389.	231.	-0.02010	0.00	2.64E+1	0.000	0.00	.000
1.850	0.524	390382.	231.	-0.02004	0.00	2.64E+1	0.000	0.00	.000
2.220	0.515	391773.	231.	-0.01998	0.00	2.64E+1	0.000	0.00	.000
2.590	0.507	392162.	231.	-0.01992	0.00	2.63E+1	0.000	0.00	.000
2.960	0.498	393550.	231.	-0.01986	0.00	2.63E+1	0.000	0.00	.000
3.330	0.489	394935.	231.	-0.01981	0.00	2.63E+1	-19.223	75.28	.000
3.700	0.480	395339.	229.	-0.01975	0.00	2.63E+1	-40.514	71.82	.000
4.070	0.47	396146.	227.	-0.01969	0.00	2.63E+1	-60.364	58.36	.000
4.440	0.46	397161.	224.	-0.01963	0.00	2.63E+1	-79.910	54.90	.000
4.810	0.45	398602.	220.	-0.01957	0.00	2.63E+1	-98.986	51.43	.000
5.180	0.44	399100.	215.	-0.01951	0.00	2.63E+1	-116.528	57.97	.000
5.550	0.43	400305.	210.	-0.01945	0.00	2.63E+1	-133.571	54.51	.000
5.920	0.42	401879.	203.	-0.01939	0.00	2.63E+1	-149.350	51.04	.000
6.290	0.41	402500.	196.	-0.01933	0.00	2.62E+1	-165.802	47.58	.000
6.660	0.41	402862.	189.	-0.01927	0.00	2.62E+1	-180.161	44.12	.000
7.030	0.40	403670.	180.	-0.01921	0.00	2.62E+1	-194.064	40.66	.000
7.400	0.39	404648.	171.	-0.01915	0.00	2.62E+1	-207.546	37.19	.000
7.770	0.38	405533.	162.	-0.01909	0.00	2.62E+1	-220.644	33.73	.000
8.140	0.37	405076.	152.	-0.01903	0.00	2.62E+1	-232.393	30.27	.000
8.510	0.36	406042.	141.	-0.01896	0.00	2.62E+1	-243.830	26.80	.000
8.880	0.36	407213.	130.	-0.01890	0.00	2.62E+1	-253.990	23.34	.000
9.250	0.35	407382.	119.	-0.01884	0.00	2.62E+1	-263.911	19.88	.000
9.620	0.34	408359.	704.50	-0.01878	0.00	2.62E+1	-1193.988	1541	.000
9.990	0.33	408814.	313.63	-0.01872	0.00	2.62E+1	-1235.393	1635	.000
10.360	0.32	408917.	256.75	-0.01866	0.00	2.62E+1	-1273.597	1729	.000
10.730	0.31	408903.	991.55	-0.01860	0.00	2.62E+1	-1309.772	1823	.000
11.100	0.31	407076.	-138.	-0.01854	0.00	2.62E+1	-1341.092	1917	.000

					Whit	lest	1)-Fl	p7o
1		3.100		18.	37.91		0.(	30000
2		3.800		18	59.73		0.(	30000

Note r ce tha the v lues o momen capa ty in he ta le abo are t
Factor d by a streng n redu tion ctor hi-fa or).

In ACI 318-0 the v lue o the s ength educti n fac r dep ds on whethe
the t nsvers rein cing teel s ar tied ops (0.65) o spiral (0.7 .

The ab ve va es sh ld be ultip ed by he ap opria stre th re ction
Factor to con te u imate oment apaci acco ing t ACI 3 -08, ction
9.3.2 or th valu requi d by e des n sta dard b ing fo owed.

The fo lowing table resen fact ed mo nt ca citie and c respo ing
pendin stif esses omput for mmon sista e fac r val s use for
reinfo ced co crete ectio .

Axia Load No.	R f	istan actor Mome	N Momen i	inal Capac ly kip		Ulti te (F tored A al Th st kips		U imate Facto d) oment apaci , in ip		Bendir rt Ult k	Stiff ss Mom. p. p-in^2	
1		0.65	1	007.9		4	265	11	05.13	459	01803.	9
2		0.65	1	859.7		5	020	11	58.82	461	79211.	3
1		0.70	1	007.9		4	670	12	05.53	457	15834.	4
2		0.70	1	859.7		6	560	12	01.86	459	92541.	7
1		0.75	1	007.9		5	075	13	05.93	445	28708.	4
2		0.75	1	859.7		6	100	13	44.79	448	72620.	4

Co uted lues Pile oadin and D lecti
r Lat al Lo ing f Load ase N ber 1

Pile- ad co ition are S ar an Momen (Load g Typ 1)

't Whi West (B1)-F 1p7o

.0000 7	1729 .	2 52711 .	.8693 96	.0015 01	.006 9	.8316 9	-0.000 0 CY
.0000 7	1734 .	2 02419 .	.7388 13	.0015 09	.006 31	.8573 2	-0.000 0 CY
.0000 7	1739 .	2 74869 .	.6112 31	.0016 25	.006 45	.8807 9	-0.000 0 CY
.0000 7	1744 .	2 73206 .	.4921 08	.0016 12	.006 38	.9021 5	-0.000 0 CY
.0000 7	1749 .	2 95522 7.	.3802 06	.0016 51	.007 29	.9214 0	-0.000 0 CY
.0000 7	1753 .	2 40088 5.	.2756 15	.0016 30	.007 70	.9387 2	-0.000 0 CY
.0000 7	1758 .	2 04783 .	.1756 25	.001 01	.007 09	.9538 6	-0.000 0 CY
.0000 7	1762 .	2 87059 .	.0806 09	.001 21	.007 49	.9669 0	-0.000 0 C
.0000 7	1766 .	57709 .	.9818 55	.001 34	.007 96	.9775 5	-0.000 0 C
.0000 7	1769 .	28278 5.	.8788 70	.001 39	.008 51	.9859 3	-0.000 0 C
.0000 7	1773 .	90470 3.	.7818 43	.001 45	.008 05	.9923 8	-0.000 0 C
.0000 7	1775 .	54200 3.	.6884 75	.001 52	.008 58	.9968 2	-0.000 0 C
.0000 7	1778 .	19373 5.	.6000 16	.001 60	.008 10	.9994 8	-0.000 0 C
.0000 7	1781 .	35896 7.	.518 09	.001 69	.008 61	.9978 2	0.000 0 C
.0001 7	1784 7.	53681 0.	.4400 35	.001 80	.009 10	.9939 3	0.000 0 C
.0001 7	1787 .	22583 6.	.364 56	0.002 91	0.009 59	.9970 9	0.000 0 C
.0001 7	178 7.	92357 3.	.290 37	0.002 00	0.009 10	.9996 3	0.000 0 C
.0001 7	179 1.	53207 3.	.220 94	0.002 10	0.009 60	.9961 9	0.000 0 C
.0001 7	179 5.	34757 7.	.149 78	0.002 17	0.009 13	.9924 8	0.000 0 C
.0001 7	180 1.	82554 5.	8.774 94	0.002 58	0.010 32	.9958 8	0.000 0 C
.0001 7	181 5.	56372 3.	8.466 43	0.002 98	0.011 52	.9950 8	0.000 0 C
.0001 7	181 1.	48515 1.	8.194 44	0.002 18	0.013 92	.9887 7	0.000 0 C
.000 77	182 1.	56707 0.	7.981 99	0.002 66	0.014 04	.9958 5	0.000 0 C
.000 97	182 7.	77568 0.	7.815 87	0.003 41	0.015 89	.996 75	0.000 0 C
.000 17	183 8.	87910 4.	7.637 90	0.003 57	0.016 33	.986 10	0.000 0 C
.000 37	183 6.	46455 8.	7.482 91	0.003 73	0.017 77	.994 14	0.000 0 C
.000 57	183 0.	92051 7.	7.352 77	0.003 03	0.018 07	.994 38	0.000 00 C
0.000 77	183 2.	43544 1.	7.245 91	0.003 53	0.019 17	.981 43	0.000 00 C
0.000 97	183 2.	99485 4.	7.284 91	0.003 12	0.020 18	.999 37	0.000 00 C

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mmary f Res ts fo Nomin (Unf tored Momen Capac y for ectic 1

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Mom t val s int polat at m imum mpres ve st in = 003
or ximum evelo d mom t if le fa s at maller trair

Lo N	A ial Th ust kips	No nal M . Cap in-k	x. Co p. Strai

F White Test (1)-FL 070

0.0000 07	96756	466 52238	24 26645	0 00515	-0 00172	351818	-4 72462	C
0.0000 12	98978	465 84059	24 29966	0 00527	-0 00176	389612	-5 92075	C
0.0000 17	.01197	465 51330	24 33903	0 00546	-0 00180	327122	-5 11641	C
0.0000 22	.03415	464 44326	24 38419	0 00552	-0 00185	364340	-5 .31157	C
0.0000 27	.05629	464 54147	24 43482	0 00565	-0 00189	30128	-5 .50624	C
0.0000 32	.07842	463 72688	24 49062	0 00577	-0 30193	33793	-5 70042	C
0.0000 37	.10053	463 92494	24 55136	0 00590	-0 30197	37429	-5 89410	C
0.0000 42	.12261	462 06728	24 61662	0 00601	-0 30201	11036	-5 .08728	C
0.0000 47	.14467	462 09095	24 68634	0 00615	-0 30205	14614	-5 .27995	C
0.0000 52	.16676	462 59379	24 76020	0 00628	-0 30209	18163	-6 .00000	CY
0.0000 57	.18871	461 35546	24 83818	0 00640	-0 30214	.21683	-6 .00000	CY
0.0000 62	.21076	461 18915	24 91992	0 00065	-0 30218	25173	-6 .00000	CY
0.0000 67	.23266	460 39026	24 00053	0 00066	-0 .30222	.28634	-6 .00000	CY
0.0000 72	.25466	460 35454	24 09420	0 .30067	-0 .30226	.32065	-6 00000	CY
0.0000 77	.27652	460 37801	24 18640	0 30069	-0 .30230	.35467	-6 00000	CY
0.0000 82	.29789	459 29985	24 24880	0 30070	-0 .30234	.38813	-6 .00000	CY
0.0000 87	.31685	458 34290	24 31650	0 .30071	-0 30238	42015	-6 00000	CY
0.0000 92	.33339	455 59170	24 39389	0 30072	- 00243	.45072	-6 00000	CY
0.0000 97	.34884	451 31082	24 36578	0 30073	- .00247	48051	-6 00000	CY
0.000 17	.40048	442 34945	24 70511	0 .30078	- .00264	59222	-6 00000	CY
0.000 37	.44225	427 33669	24 51044	.00082	- .00281	69533	-6 00000	CY
0.000 57	.47701	41 49462	24 30025	00086	- 00299	79141	-6 00000	CY
0.000 77	.50651	399 74375	24 37182	.00090	- 00316	88039	-6 00000	CY
0.000 97	.53164	38 18957	2 34166	.00094	- 00334	96385	-6 00000	CY
0.000 17	15545	37 44812	2 52261	00098	- 00352	04313	-6 00000	CY
0.000 37	15742	35 17527	2 40574	00102	- 00370	11770	-6 00000	CY
0.000 57	15924	34 70763	2 20017	00106	- 00387	18857	-6 00000	CY
0.000 77	16078	33 31780	2 .98424	00109	- 00405	25407	-6 00000	CY
0.000 97	16232	32 80842	2 .78796	00113	- 00423	31701	-6 00000	CY
0.000 17	16356	31 71161	2 58786	00116	- 00442	37553	-6 00000	CY
0.000 37	16477	30 54964	2 .40283	00120	- 00460	43145	-6 00000	CY
0.000 57	16594	29 60382	2 .23118	00123	- 00478	48475	-6 00000	CY
0.000 77	16693	28 61555	2 05423	00127	- 00496	53399	-6 00000	CY
0.000 97	16784	28 06676	2 .87936	00130	- 00514	57996	-6 00000	CY
0.000 17	16874	27 70220	2 71770	00134	- 00532	62378	-6 .00000	CY
0.000 37	16959	26 30972	2 .56407	00137	- 00551	.66486	-6 00000	CY
0.000 57	17032	25 55237	2 41222	00140	- 00569	70307	-6 00000	CY
0.000 77	17100	25 11780	2 26696	00144	- 00587	73879	-6 00000	CY
0.000 97	17168	24 41425	2 13165	00147	- 00605	77234	-6 00000	CY
0.000 17	17234	24 02624	2 00060	00150	- 00624	80336	-6 00000	CY

				Ft Wt	ce Wei	(B1)	..lp7						
0.000	5250	8905.	.12220	1282.	5.856	.82	0.00	357	0.000	13	0.5438	L5	2.4241	91	C
0.000	5500	8905.	.07106	1541.	5.776	466	0.00	418	0.000	22	0.5676	14	3.0285	46	C
0.000	5750	8905.	.02443	1779.	5.703	363	0.00	478	0.000	32	0.5901	52	3.6329	87	C
0.000	6000	8905.	98175	1496.	5.637	436	0.00	538	0.000	42	0.6131	59	4.2371	70	C
0.000	6250	8905.	94248	1156.	5.576	760	0.00	599	0.000	51	0.6361	34	4.841	13	C
0.000	6500	8905.	90623	1612.	5.521	527	0.00	659	0.000	61	0.6596	35	5.445	54	C
0.000	6750	8905.	87266	1441.	5.476	325	0.00	719	0.000	71	0.6818	33	6.049	99	C
0.000	7000	8905.	84156	1711.	5.424	956	0.00	780	0.000	80	0.7044	L5	6.653	77	C
0.000	7250	8905.	81248	1307.	5.382	299	0.00	840	0.000	90	0.7272	81	7.256	33	C
0.000	7500	8905.	78546	1797.	5.344	100	0.00	901	0.000	99	0.7495	76	7.861	51	C
0.000	7750	8905.	76006	1094.	5.302	441	0.00	961	0.000	09	0.7724	42	8.465	30	C
0.000	8000	8905.	73631	0122.	5.268	149	0.00	021	0.000	19	0.7945	58	9.068	31	C
0.000	8250	8905.	71406	1361.	5.232	558	0.00	082	0.000	28	0.8172	23	9.672	51	C
0.000	8500	8905.	69306	1644.	5.202	705	0.00	142	0.000	38	0.8396	35	0.276	L7	C
0.000	8750	8905.	67326	2969.	5.174	283	0.00	203	0.000	47	0.8619	94	0.880	45	C
0.000	9000	8905.	65456	2331.	5.142	511	0.00	263	0.000	57	0.8842	00	1.483	43	C
0.000	9250	8905.	63682	9835.	5.122	100	0.00	324	0.000	66	0.9062	50	2.086	07	C
0.000	9500	8905.	62009	7471.	5.100	325	0.00	385	0.000	75	0.9282	44	2.690	35	C
0.000	9750	8905.	60418	0075.	5.078	313	0.00	445	0.000	85	0.9502	30	3.293	25	C
0.0	0102	8905.	57466	8876.	5.044	289	0.00	567	0.000	03	0.9945	78	4.499	54	C
0.0	0107	8905.	54795	8579.	5.006	308	0.00	688	0.000	22	1.037	35	5.704	07	C
0.0	0112	8905.	52366	7865.	4.976	556	0.00	810	0.000	40	1.080	42	5.910	26	C
0.0	0117	8905	50132	8594.	4.951	330	0.00	932	0.000	58	1.124	92	8.114	94	C
0.0	0122	8905	48085	7835.	4.921	810	0.00	054	0.001	76	1.166	74	9.319	34	C
0.0	0127	0918.	47778	5737.	4.900	387	0.00	176	0.001	94	1.209	82	0.523	70	C
0.0	0133	3173.	47678	5682.	4.897	725	0.00	298	0.001	12	1.251	06	1.726	27	C
0.0	0138	5427.	47585	9720.	4.87	261	0.00	421	0.001	29	1.293	38	2.929	22	C
0.0	0143	7678	47495	8255.	4.864	521	0.00	543	0.001	47	1.335	58	4.132	29	C
0.0	0148	9928	47408	4386.	4.854	754	0.00	666	0.001	64	1.376	88	5.334	22	C
0.0	0153	2175	47327	2275.	4.844	377	0.00	789	0.001	81	1.417	89	6.536	70	C
0.0	0157	4420	47255	1025.	4.838	435	0.00	912	0.001	98	1.458	52	7.737	46	C
0.0	0162	6664	47177	4763.	4.83	066	0.00	035	0.001	15	1.499	98	8.938	20	C
0.0	0167	8905	47107	1891.	4.824	569	0.00	159	-0.001	31	1.539	87	0.138	53	C
0.0	0172	1144	47038	4469.	4.824	387	0.00	282	-0.001	48	1.579	20	1.338	45	C
0.0	0177	3380	46974	7696.	4.824	078	0.00	406	-0.001	64	1.619	88	2.537	35	C
0.0	0182	5615	46911	9482.	4.824	307	0.00	530	-0.001	80	1.658	81	3.736	03	C
0.0	0187	7848	46855	0087.	4.824	329	0.00	654	-0.001	96	1.697	90	4.935	17	C
0.0	0192	0078	46795	1814.	4.824	975	0.00	778	-0.001	12	1.736	85	6.133	48	C
0.0	0197	2306	46737	3750.	4.824	145	0.00	902	-0.001	28	1.775	16	7.330	51	C
0.0	0202	4532	46685	5549.	4.824	800	0.00	027	0.001	43	1.813	13	8.528	27	C

				F White Nest (-)-FL. 970				
0 00107	78338	165 05223	19 .58182	0 002064	-0 009572	99891	-60 30000	CY
0 00109	78536	162 55939	19 087743	0 002094	-0 009758	99135	-60 30000	CY
0 00121	79621	147 23097	18 709303	0 002277	-0 010871	99470	60 30000	CY
0 00133	80538	134 56459	18 403061	0 002461	-0 011981	99369	60 30000	CY
0 00145	.81092	124 85794	18 134547	0 002641	-0 013090	98666	60 .00000	CY
0 00157	.81598	115 74252	17 924827	0 002820	-0 014200	99864	60 00000	CY
0 00169	.82048	107 98396	17 751565	0 003010	-0 015310	99531	60 .00000	CYT
0 00181	.82304	106 049832	17 574400	0 003190	-0 .016430	98996	60 .00000	CYT
0 00193	182494	94 004898	17 421520	0 003370	-0 .017540	99276	6 00000	CYT
0 00205	182663	88 788667	17 293084	0 003550	-0 018660	.99836	6 00000	CYT
0 00217	182807	83 526742	17 18866	0 003740	-0 .019770	97720	6 00000	CYT
0 00229	182807	79 577685	17 22823	0 .003950	- .02085	99844	6 00000	CYT

Axial Thrust Force = 90 300 kips

Bending Curvature rad/in.	Bending Moment in-kip	Bending Stiffness k-in2	Depth to Axis in	Max Comp Strain in/in	Max Tens Strain in/in	Max Concrete Stress psi	Max Steel Stress psi	Run Msg
0.00002	748 .35307	299 41230	6 98295	00001	- 00001	06593	45271	
0.00005	1493	298 60762	5 50443	00002	- 00002	12197	84048	
0.00007	2234	297 26076	5 01168	00004	- .00003	17761	22825	
0.00010	2972	297 52420	5 26535	00005	- 00005	23284	61603	
0.00012	3707	296 63129	5 81758	00006	- 00006	28768	00381	
0.00015	4438	295 66018	5 51910	00008	- 00007	34211	39159	
0.00017	5166	295 64432	5 30592	00009	- 00009	39614	77937	
0. 00020	5890	294 60048	5 14606	00011	- 00010	44977	16715	
0. 00022	5890	261 08932	2 21159	.00006	- 00017	25970	- 17095	C
0. 00025	5890	235 08039	2 81041	00006	- 00020	28392	- 77459	C
0. 00027	5890	214 07308	2 .48067	00007	- 00022	30804	- 37835	C
0. 00030	5890	196 06699	2 19657	00008	- 00024	33197	- 98291	C
0. 00032	5890	181 67722	2 95713	00008	- 00026	35584	- 58739	C
0. 00035	5890	168 05742	2 75279	00009	- 00028	37964	- 19178	C
0. 00037	5890	157 .05359	2 57653	00009	- 00030	40337	- 79607	C
0. 00040	5890	147 30024	2 42133	00010	- 00032	42702	- 40048	C
0. 00042	5890	138 04728	2 28026	00011	- 00034	45051	-1 .00546	C
0. 00045	5890	130 04466	2 15558	00011	- 00036	.47394	-1 .61022	C
0. 00047	5890	124 09494	2 04471	00012	- 00038	49730	-1 .21495	C
0. 00050	5890	117 .04019	2 94558	00013	- .00041	52066	-1 .81959	C

1.0000	2	32643	453 03839	24 78883	00072	-0.00243	.44260	-6.00000 CY
1.0000	7	.34173	451 22442	24 76128	00073	-0.00247	.47237	-6.00000 CY
0.0000	.7	39316	438 02913	24 50500	00078	-0.00264	.58421	-6.00000 CY
0.0000	37	43471	425 95607	24 41408	00082	-0.00282	.68744	-6.00000 CY
0.0000	57	46929	416 12764	24 20193	0.00086	-0.00299	.78320	-6.00000 CY
0.0000	77	49878	397 75139	2 97793	0.00090	-0.00317	.87242	-6 00000 CY
0.0000	97	52379	383 43689	2 .75103	0.00094	-0.00334	95606	-6 00000 CY
0.0000	17	54657	376 35488	2 .53489	0.00098	-0.00352	.03551	-6 00000 CY
0.0000	37	56623	357 96462	2 .32152	0.00102	-0.00370	11034	-6 00000 CY
0.0000	57	58425	346 34925	2 .11234	0.00105	-0.00388	18088	-6 00000 CY
0.0000	77	59974	335 23752	2 .89966	0.00109	-0.00406	24665	-6 00000 CY
0.0000	97	61510	324 43817	2 .70634	0.00112	- .00424	30987	-6 00000 CY
0.0000	17	62740	314 73603	2 .50798	.00116	- .00442	36859	-6 00000 CY
0.0000	37	63940	30 19410	2 .32555	.00120	- 00460	42479	-6 00000 CY
0.0000	57	65110	290 76391	2 .15606	.00123	- 00478	47836	-6 00000 CY
0.0000	77	66080	28 39175	2 .97481	00126	- 00496	52733	-6 00000 CY
0.0000	97	16699	27 95414	2 .80223	00130	- 00515	57361	-6 00000 CY
0.000	17	16790	27 06806	2 .64270	00133	- 00533	61765	-6 00000 CY
0.000	37	16874	26 02217	2 49053	00137	- 00551	65908	-6 00000 CY
0.000	57	16947	25 59116	2 34004	00140	- 00569	69756	-6 00000 CY
0.000	77	17015	25 55801	2 19659	00143	- 00588	73360	-6 00000 CY
0.000	97	17083	24 23312	2 06299	00146	- 00606	76747	-6 00000 CY
0.000	17	17148	23 07645	2 92753	00150	- 00624	79840	-6 00000 CY
0.000	37	17209	23 53261	2 .79703	.00153	- 00643	82697	-6 00000 CY
0.000	57	17261	22 78674	2 66695	00156	- 00661	85295	-6 00000 CY
0.000	77	17309	22 34235	2 54162	00159	- 00679	87672	-6 00000 CY
0.000	97	17357	21 47135	2 .42396	00162	- 00698	89846	-6 00000 CY
0.000	17	17404	21 98393	2 31341	00166	- 00716	91816	-6 00000 CY
0.000	37	17451	20 70839	2 20949	00169	- 00735	93580	-6 00000 CY
0.000	57	17496	20 42628	2 11123	00172	- 00753	95134	-6 .00000 CY
0.000	77	17539	19 77643	2 01625	00175	- 00772	.96468	-6 .00000 CY
0.000	97	17572	19 90281	1 91217	00178	- 00790	.97550	-6 .00000 CY
0.000	17	17604	19 69312	1 81004	00181	- 00809	.98428	-6 .00000 CY
0.000	37	17635	18 10326	1 71334	00184	- 00827	.99114	-6 .00000 CY
0.000	57	17666	18 04251	1 62186	00187	- 00846	.99600	-6 .00000 CY
0.000	77	17696	18 41629	1 53536	00190	- 00864	.99902	-6 .00000 CY
0.000	97	17726	17 13734	1 45339	00194	- .00883	.99989	-6 .00000 CY
0.000	17	17756	17 10688	1 37622	00197	- .00901	.99288	-6 .00000 CY
0.000	37	17784	17 13626	1 30144	00200	- 00920	.99698	-6 .00000 CY
0.000	57	17809	16 08178	1 22788	.00203	- .00938	.99931	-6 .00000 CY

			Ft Wh :e Wes	(B1)· ..1p7(				
0.000009500	58906	520068 127.	24.812 69	0.000 357	0.000 03	0.9182 1	- 2.7692 8	C
0.000009750	58906	504161 277.	24.798 54	0.000 18	0.000 .12	0.9402 9	- 3.3725 2	C
0.0000102	58906	574690 386.	24.772 36	0.000 539	0.000 31	0.9846 0	- 4.5787 6	C
0.0000107	58906	547960 547.	24.751 17	0.000 561	0.000 49	1.0276 2	- 5.7844 4	C
0.0000112	58906	523600 707.	24.732 17	0.000 782	0.000 68	1.0716 7	- 5.9898 2	C
0.0000117	58906	501321 400.	24.716 788	0.000 304	-0.000 786	1.1146 6	- 3.1947 8	C
0.0000122	58906	480861 772.	24.703 41	0.000 326	-0.001 04	1.1568 72	- 3.3992 39	C
0.0000127	50247	472521 392.	24.692 122	0.000 148	-0.001 522	1.1994 15	- 3.6031 57	C
0.0000133	52503	471721 397.	24.683 908	0.000 271	0.001 039	1.2416 78	1.8069 06	C
0.0000138	54757	47096 707.	24.675 229	0.000 393	-0.001 157	1.2836 50	3.0101 38	C
0.0000143	57009	47024 242.	24.670 306	0.000 515	-0.001 375	1.3254 23	4.2129 35	C
0.0000148	59260	46955 557.	24.66 502	0.000 638	-0.001 292	1.3668 90	5.4151 51	C
0.0000153	71508	46890 504.	24.66. 783	0.000 761	-0.001 709	1.4080 39	5.6171 55	C
0.0000157	73754	46827 390.	24.660 685	0.00 884	-0.001 126	1.4489 53	7.818 90	C
0.0000162	75997.	46767 293.	24.65 287	0.00 007	-0.001 543	1.4890 53	9.019 36	C
0.0000167	78239.	46709 496.	24.660 691	0.00 131	-0.001 959	1.529 39	0.220 54	C
0.0000172	80479.	46654 026.	24.66 106	0.00 254	-0.001 376	1.5700 31	1.420 44	C
0.0000177	82716.	46600 265.	24.66 827	0.00 378	-0.00 792	1.6091 22	2.619 46	C
0.0000182	84952.	46548 629.	24.66 230	0.00 501	-0.00 .209	1.649 30	3.818 40	C
0.0000187	87185.	46498 294.	24.66 756	0.00 625	-0.00 525	1.6880 57	5.017 95	C
0.0000192	89416.	46450 970.	24.67 .907	0.00 750	-0.00 940	1.7270 43	6.215 79	C
0.0000197	91645.	46402 707.	24.67 235	0.00 874	-0.00 .456	1.766 28	7.413 61	C
0.0000202	93872.	46356 726.	24.68 336	0.00 998	-0.00 372	1.804 02	8.610 10	C
0.0000207	96097.	46311 280.	24.68 847	0.00 123	-0.00 287	1.842 55	9.807 92	C
0.0000212	98319.	46267 536.	24.69 439	0.00 248	-0.00 702	1.880 78	1.004 75	C
0.0000217	100539.	46224 462.	24.70 815	0.00 373	-0.00 117	1.918 61	2.199 26	C
0.0000222	102757.	46183 743.	24.70 703	0.00 498	-0.00 532	1.955 92	3.395 .11	C
0.0000227	104973.	46141 700.	24.71 859	0.00 623	-0.00 947	1.992 62	4.590 95	C
0.0000232	107186.	46101 224.	24.72 057	0.00 748	-0.00 362	2.029 60	5.784 46	C
0.0000237	109398.	46062 789.	24.73 094	0.00 874	-0.00 776	2.065 76	6.978 28	C
0.0000242	111607.	46023 .010.	24.74 781	0.00 000	-0.00 190	2.101 98	8.171 04	C
0.0000247	113813.	45985 386.	24.75 948	0.00 126	-0.00 604	2.137 18	9.364 41	C
0.0000252	116017.	45947 469.	24.76 437	0.00 252	-0.00 .018	2.173 22	0.000 00	C
0.0000257	118219.	45916 221.	24.76 104	0.00 378	-0.00 .432	2.208 01	0.000 00	C
0.0000262	120419.	45873 907.	24.77 816	0.00 505	-0.00 845	2.243 44	0.000 00	C
0.0000267	122616.	45837 063.	24.79 452	0.00 631	-0.00 259	2.278 38	0.000 00	C
0.0000272	124811.	45802 472.	24.80 898	0.00 758	-0.00 672	2.312 74	0.000 00	C
0.0000277	127004.	45767 145.	24.81 050	0.00 885	-0.00 085	2.346 38	0.000 00	C
0.0000282	129133.	45716 285.	24.81 393	0.00 011	-0.00 499	2.380 92	0.000 00	C
0.0000287	131007.	45567 710.	24.81 135	0.00 133	-0.00 917	2.412 63	0.000 00	C

Curvatu[illegible]e rad/in		M:m[illegible] i-[illegible]		tif[illegible] kip	s	ft	t	B [illegible]t .n	l	St in		St k		St k	
0.0000(	2:0	81.(	1:8	9:7	4(.	6(.	.6:3	0.	0:52	0.	0.18	0.	5'26	0.	4:30
0.0000(	5:0		3(.	8:0	6(.	5(.	6:1	0.	0:37	0.	3:53	0.	5:25	0.	1:54
0.0000(	7:0		4(.	7:2	0(.	5(.	5:57	0.	4:22	0.	3:38	0.	2'14	1.	3:29
0.0000(	6:0		2(.	7:5	6(.	5(.	0:43	0.	0:57	0.	3:23	0.	5.34	1.	5.14
0.0000(	2:0		7(.	6:7	8(.	5(.	.5:39	0.	0:02	0.	3:58	0.	3:37	1.	3:38
0.0000(	5:0		8(.	5:9	7(.	5(.	1:33	0.	0:27	0.	0'93	0.	3:71	2.	0'16
0.0000(	7:0		6(.	5:20	0(.	5(.	4:99	0.	0:52	0.	0:28	0.	3:88	2.	0:23
0.0000(	6:0		0(.	4:52	0(.	5(.	5:23	0.	1:37	0.	1:53	0.	4:86	3.	5:46
0.0000(	2:0		0(.	5:10	5(.	7.	3.12	0.	0:11	0.	1:19	0.	0:89	-5.	0:14
0.0000	5:0		0(.	5:62	0(.	5.	3:70	0.	0:71	0.	2:29	0.	1:38	-5.	8:88
0.0000	5:0		0(.	4:20	0(.	5.	3:78	0.	0'32	-0.	2:38	0.	1'38	-6.	5:65
0.0000	0:0		0(.	0:35	0(.	5.	5:37	0.	0'92	-0.	2:48	0.	0:75	-7	4'77
0.0000	5:0		0(.	3:24	3(.	5.	1:45	0.	0:51	-0.	2:59	0.	8:25	-7	8:56
0.0000	0:0		0(.	5:30	0(.	5.	2'33	0.	0:11	-0.	2:69	0.	5:34	-8	1:26
0.0000	5:0		0(.	5'38	1(.	5.	4:44	0.	0:71	-0.	3:79	0.	2:06	-8	2:54
0.0000	0:0		0(.	1'26	3(.	5.	5:76	0.	1:31	-0.	3:89	0.	8:23	-9	3:49
0.0000	5:0		0(.	3:50	3(.	5.	3:97	0.	1:91	-0.	3:99	0.	3:02	-10	3:07
0.0000	0:0		0(.	3:30	2:3.	5.	4:62	0.	1:51	-0.	3:09	0.	7:36	-10	2:25
0.0000	1'50		0(.	2:31	2:4.	5.	9:72	0.	1:12	-0.	3:18	0	1:22	-11	0:03
0.0000	5:00		0(.	1'31	3:1.	5.	2:14	0.	1:72	-0.	4:28	0	4:64	-11	7:35
0.0000	5:50		0(.	1:20	3:1.	5.	5:44	0.	1:32	-0	4:38	0	7:47	-12	4:26
0.0000	5:30		0(.	0'16	4:1.	5.	0:36	0.	1:92	-0	4:48	0	8:76	-13	3:34
0.0000	5'50		9:6.	0:44	3:3.	5.	5:16	0	1:52	-0	4:58	0	9:52	-13	2:54
0.0000	5:00		9:6.	9:17	2:1.	5.	1:93	0	1:12	-0	4:68	0	9:94	-14	0:83
0.0000	5:50		9:6.	9:24	2:3	5.	3:46	0	1:72	-0	5:78	0	8:9.	-14	7:16
0.0000	6:00		9:6.	9:62	4:6	5	6:89	0	1:32	-0	5:88	0	7:47	-15	2:53
0.0000	6:50		9:6.	8:26	1:9	5	5:57	0	1:92	-0	5:97	0	5:57	-16	7:89
0.0000	7:00		9:6	8:15	6:1	5	6:98	0	1:52	-0	5:07	0	3:2	-16	1:22
0.0000	7:50		9:6	8:24	5:6	5	6:99	0	1:12	-0	6:17	0	9:4	-17	4:48
0.0000	7:00		9:6	7:54	5:1	4	1:87	0	1:7.	-0	6:27	0	6:1	-17	5:64
0.0000	7:50		9:6	7:00	5:3	4	1:6	0	1:34	-0	6:36	0	1:3	-18	6:69
0.0000	8:00		9:6	7:6.	4:1	4	1:3	0	1:94	-0	6:4	0	6:0	-19	6:58
0.0000	8:50		9:6	7:4	6:1	4	1:7	0	2:5	-0	6:5	0	6:2	-19	4:37
0.0000	8:00		9:6	6:3	5:5	4	5:9	0	2:1	-0	7:6	0	4:9	-20	2:8
0.0000	8:50		9:6	6:3	4:1	4	3:9	0	2:7	-0	7:7	0	7:1	-20	5:0
0.0000	9:00		9:6	6:4	1:4	4	1:2	0	2:3	-0	7:8	0	5:7	-21	4:0
0.0000	9:50		9:6	6:6	6:2	4	4:0	0	2:9	-0	7:9	0	0:8	-22	5:6

8: 1

Concrete Properties:

Compressive Strength of Concrete	=	4000.00000 psi
Modulus of Elasticity of Concrete	=	3504997. psi
Modulus of Rupture of Concrete	=	-474.34164 psi
Compression Strain at Peak Stress	=	0.00189
Tensile Strain at Fracture of Concrete	=	-0.0001154
Maximum Coarse Aggregate Size	=	0.75000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 2

Number	Axial Thrust Force kips
1	68.100
2	90.800

Definitions of Run Messages and Notes:

C = concrete in section has cracked in tension.
Y = stress in reinforcing steel has reached yield stress.
T = ACI 318-08 criteria for tension-controlled section met, tensile strain in reinforcement exceeds 0.005 while simultaneously compressive strain in concrete more than than 0.003. See ACI 318-08, Section 10.3.4.
Z = depth of tensile zone in concrete section is less than 10 percent of section depth.

Bending Stiffness (EI) = Computed Bending Moment / Curvature.
Position of neutral axis is measured from edge of compression side of pile.
Compressive stresses and strains are positive in sign.
Tensile stresses and strains are negative in sign.

Axial Thrust Force = 68.100 kips

Bending	Bending	Bending	Depth to	Max Comp	Max Tens	Max Concrete	Max Steel	Run

F [illegible] White [illegible] ([illegible])-FL. [illegible]

23	1.27000	[illegible].2700[illegible]	[illegible]7.066[illegible]	[illegible]1.37 [illegible]
24	1.27000	[illegible].2700[illegible]	[illegible].646[illegible]	19.91 [illegible]
25	1.27000	[illegible].2700[illegible]	[illegible]1.689[illegible]	15.17 [illegible]
26	1.27000	[illegible].2700[illegible]	[illegible].169[illegible]	10.23[illegible]
27	1.27000	[illegible].2700[illegible]	[illegible]1.065 [illegible]	5.15 [illegible]
28	1.27000	[illegible].2700[illegible]	[illegible]1.365 [illegible]	[illegible].00 [illegible]
29	1.27000	[illegible].2700[illegible]	[illegible]1.065 [illegible]	-5.15 [illegible]
30	1.27000	[illegible].2700[illegible]	[illegible].169[illegible]	-10.23 [illegible]
31	1.27000	[illegible].2700	[illegible]1.689 [illegible]	-15.17 [illegible]
32	1.27000	[illegible].2700	[illegible].646 [illegible]	-1[illegible].91 [illegible]
33	1.27000	[illegible].2700	[illegible]7.066 [illegible]	-[illegible]4.37 [illegible]
34	1.27000	[illegible].2700	[illegible].985 [illegible]	-[illegible]8.51 [illegible]
35	1.27000	[illegible].2700	[illegible].445[illegible]	-[illegible]2.26 [illegible]
36	1.27000	[illegible].2700	[illegible].492 [illegible]	-[illegible]5.58[illegible]
37	1.27000	[illegible].2700	[illegible].182 [illegible]	-[illegible]8.42 [illegible]
38	1.27000	[illegible].2700	[illegible].572 [illegible]	-[illegible]0.73[illegible]
39	1.27000	[illegible].2700	[illegible].724 [illegible]	-[illegible]2.56 [illegible]
40	1.27000	[illegible].2700	-[illegible].703 [illegible]	[illegible]3.69 [illegible]
41	1.27000	[illegible].2700	-[illegible].579 [illegible]	[illegible]4.28[illegible]
42	1.27000	[illegible].2700	[illegible].579 [illegible]	[illegible]4.28[illegible]
43	1.27000	[illegible].2700	[illegible].703 [illegible]	[illegible]3.69 [illegible]
44	1.27000	[illegible].2700	[illegible].724 [illegible]	[illegible]2.56 [illegible]
45	1.27000	[illegible].2700	[illegible].572[illegible]	[illegible]0.73[illegible]
46	1.27000	[illegible].2700	[illegible].182[illegible]	[illegible]8.42 [illegible]
47	1.27000	[illegible].2700	[illegible].492 [illegible]	[illegible]5.58[illegible]
48	1.27000	[illegible].2700	[illegible].445 [illegible]	[illegible]2.26 [illegible]
49	1.27000	[illegible].2700	[illegible].985[illegible]	[illegible]8.51 [illegible]
50	1.27000	[illegible].2700[illegible]	[illegible].066 [illegible]	[illegible]4.31 [illegible]
51	1.27000	[illegible].2700[illegible]	[illegible].646[illegible]	9.91[illegible]
52	1.27000	[illegible].2700	[illegible].689[illegible]	[illegible]5.17 [illegible]
53	1 27000	[illegible].2700[illegible]	[illegible].169 [illegible]	[illegible]0.23 [illegible]
54	1 27000	[illegible].2700[illegible]	[illegible].065[illegible]	5.15 [illegible]

NOTE: The positions [illegible] the above [illegible] were com[illegible]ed [illegible] Pile

Minimum spacing between any two ba[illegible] not [illegible]ual [illegible] zero [illegible]891[illegible] inches between [illegible] 46 and 47

Spacing to aggregate size ratio = 5.[illegible]59

Edge-to-Edge Bar Spacing		33319	in
Maximum Concrete Aggregate Size		75000	in
Ratio of Bar Spacing to Aggregate Size		5.19	
Offset of Center of Rebar Cage from Center of Pier		1.3300	in

Axial Structural Capacities

Nom. Axial Structural Capacity = 0.85 Fc (Ag - As) + As Fy	35	13.635	kips
Tensile Load for Cracking of Concrete	-4	11.827	kips
Nominal Axial Tensile Capacity	-4	14.800	kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches	
1	1.27000	1.2700	14.365	0.00	0
2	1.27000	1.2700	14.365	5.15	6
3	1.27000	1.2700	13.169	10.23	7
4	1.27000	1.2700	11.689	15.17	2
5	1.27000	1.2700	9.646	19.91	8
6	1.27000	1.2700	7.066	24.37	7
7	1.27000	1.2700	3.985	28.51	7
8	1.27000	1.2700	8.445	32.26	3
9	1.27000	1.2700	6.492	35.58	0
10	1.27000	1.2700	2.182	38.42	2
11	1.27000	1.2700	7.572	40.73	6
12	1.27000	1.2700	2.724	42.56	0
13	1.27000	1.2700	7.703	43.69	0
14	1.27000	1.2700	2.579	44.28	4
15	1.27000	1.2700	2.579	44.28	4
16	1.27000	1.2700	7.703	43.69	0
17	1.27000	1.2700	2.724	42.56	0
18	1.27000	1.2700	7.572	40.73	6
19	1.27000	1.2700	2.182	38.42	2
20	1.27000	1.2700	6.492	35.58	0
21	1.27000	1.2700	8.445	32.26	3
22	1.27000	1.2700	3.985	28.51	7

Number of loads specified = 3

Load No.	Load Type	Condition 1		Condition 2		Axial Thrust Force, lbs	Compute Top y vs. Pile Length
1	1	V = 23150. lbs	M =	38489400. in-lbs		68100.	Yes
2	1	V = 46300. lbs	M =	76978800. in-lbs		68100.	Yes
3	1	V = 61733. lbs	M =	102638400. in-lbs		90800.	Yes

V = perpendicular shear force applied to pile head
M = bending moment applied to pile head
y = lateral deflection relative to pile axis
S = pile slope relative to original pile batter angle
R = rotational stiffness applie to pile head
Axial thrust is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

---

Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section	=	37.00000	ft
Shaft Diameter	=	108.00000	in
Concrete Cover Thickness	=	9.00000	in
Number of Reinforcing Bars	=	54	bars
Yield Stress of Reinforcing Bars	=	60000.	psi
Modulus of Elasticity of Reinforcing Bars	=	29000000.	psi
Gross Area of Shaft	=	9160.88418	sq. in.
Total Area of Reinforcing Steel	=	68.58000	sq. in.
Area Ratio of Steel Reinforcement	=	0.75	percent

1	Sand (Reese, et al.)	3.000	95.000	--	27.000	--	default
		9.500	95.000	--	27.000	--	default
2	Sand (Reese, et al.)	9.500	110.000	--	30.000	--	default
		29.500	110.000	--	30.000	--	default
3	Stiff Clay w/o Free Water	29.500	110.000	1100.000	--	default	--
		34.500	110.000	1100.000	--	default	--
4	Stiff Clay w/o Free Water	34.500	110.000	1300.000	--	default	--
		39.500	110.000	1300.000	--	default	--
5	Stiff Clay w/o Free Water	39.500	37.600	700.000	--	default	--
		43.500	37.600	700.000	--	default	--
6	Sand (Reese, et al.)	43.500	52.600	--	35.000	--	default
		51.000	52.600	--	35.000	--	default

Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Distance from top of pile to top of layer	=	39.50000 ft
Distance from top of pile to bottom of layer	=	43.50000 ft
Effective unit weight at top of layer	=	37.60000 pcf
Effective unit weight at bottom of layer	=	37.60000 pcf
Undrained cohesion at top of layer	=	700.00000 psf
Undrained cohesion at bottom of layer	=	700.00000 psf
Epsilon-50 at top of layer	=	0.0000
Epsilon-50 at bottom of layer	=	0.0000

NOTE: Internal default values for Epsilon-50 will be computed for this soil layer.

Layer 6 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	43.50000 ft
Distance from top of pile to bottom of layer	=	51.00000 ft
Effective unit weight at top of layer	=	52.60000 pcf
Effective unit weight at bottom of layer	=	52.60000 pcf
Friction angle at top of layer	=	35.00000 deg.
Friction angle at bottom of layer	=	35.00000 deg.
Subgrade k at top of layer	=	0.0000 pci
Subgrade k at bottom of layer	=	0.0000 pci

NOTE: Internal default values for subgrade k will be computed for this soil layer.

(Depth of lowest soil layer extends 14.00 ft below pile tip)

Summary of Soil Properties

Layer Num.	Layer Soil Type (p-y Curve Criteria)	Layer Depth ft	Effective Unit Wt. pcf	Undrained Cohesion psf	Angle of Friction deg.	Strain Factor Epsilon 50	kpy pci

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	9.50000	ft
Distance from top of pile to bottom of layer	=	29.50000	ft
Effective unit weight at top of layer	=	110.00000	pcf
Effective unit weight at bottom of layer	=	110.00000	pcf
Friction angle at top of layer	=	30.00000	deg.
Friction angle at bottom of layer	=	30.00000	deg.
Subgrade k at top of layer	=	0.0000	pci
Subgrade k at bottom of layer	=	0.0000	pci

NOTE: Internal default values for subgrade k will be computed for this soil layer.

Layer 3 is stiff clay without free water

Distance from top of pile to top of layer	=	29.50000	ft
Distance from top of pile to bottom of layer	=	34.50000	ft
Effective unit weight at top of layer	=	110.00000	pcf
Effective unit weight at bottom of layer	=	110.00000	pcf
Undrained cohesion at top of layer	=	1100.00000	psf
Undrained cohesion at bottom of layer	=	1100.00000	psf
Epsilon-50 at top of layer	=	0.0000	
Epsilon-50 at bottom of layer	=	0.0000	

NOTE: Internal default values for Epsilon-50 will be computed for this soil layer.

Layer 4 is stiff clay without free water

Distance from top of pile to top of layer	=	34.50000	ft
Distance from top of pile to bottom of layer	=	39.50000	ft
Effective unit weight at top of layer	=	110.00000	pcf
Effective unit weight at bottom of layer	=	110.00000	pcf
Undrained cohesion at top of layer	=	1300.00000	psf
Undrained cohesion at bottom of layer	=	1300.00000	psf
Epsilon-50 at top of layer	=	0.0000	
Epsilon-50 at bottom of layer	=	0.0000	

NOTE: Internal default values for Epsilon-50 will be computed for this soil layer.

Layer 5 is stiff clay without free water

Input Structural Properties:

Pile Section No. 1:

Section Type	=	Drilled Shaft (Bored Pile)
Section Length	=	37.00000 ft
Section Diameter	=	108.00000 in

Ground Slope and Pile Batter Angles

Ground Slope Angle	=	0.000 degrees
	=	0.000 radians
Pile Batter Angle	=	0.000 degrees
	=	0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 6 layers

Layer 1 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer	=	3.00000 ft
Distance from top of pile to bottom of layer	=	9.50000 ft
Effective unit weight at top of layer	=	95.00000 pcf
Effective unit weight at bottom of layer	=	95.00000 pcf
Friction angle at top of layer	=	27.00000 deg.
Friction angle at bottom of layer	=	27.00000 deg.
Subgrade k at top of layer	=	0.0000 pci
Subgrade k at bottom of layer	=	0.0000 pci

NOTE: Internal default values for subgrade k will be computed for this soil layer.

- Use unfactored loads in computations (conventional analysis)
- Compute pile response under loading and nonlinear bending properties of pile (only if nonlinear pile properties are input)
- Use of p-y modification factors for p-y curves not selected
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:
- No p-y curves to be computed and reported for user-specified depths
- Values of pile-head deflection, bending moment, shear force, and soil reaction are printed for full length of pile.
- Printing Increment (nodal spacing of output points) = 1

Pile Structural Properties and Geometry

Total number of pile sections = 1

Total length of pile = 37.00 ft

Depth of ground surface below top of pile = 3.00 ft

Pile diameter values used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile.

Point	Depth X ft	Pile Diameter in
1	0.00000	108.0000000
2	37.000000	108.0000000

Problem Title

Project Name: Ft. White West Site

Location: Columbia County, FL

Type: 195' Monopole

Description: Nello

Engineer: Christopher A. Harris, PE

Program Options and Settings

Engineering Units of Input Data and Computations:
- Engineering units are US Customary Units (pounds, feet, inches)

Analysis Control Options:

- Maximum number of iterations allowed	=	500
- Deflection tolerance for convergence	=	1.0000E-05 in
- Maximum allowable deflection	=	100.0000 in
- Number of pile increments	=	100

Loading Type and Number of Cycles of Loading:
- Static loading specified

Computational Options:

LPile Plus for Windows, Version 2013-07.005

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method

This copy of LPile is used by:

Christopher A. Harris, P.E.
R.W. Harris, Inc.

Serial Number of Security Device: 228746911
This copy of LPile is licensed for exclusive use by: R.W. Harris, Inc., Clearwater, F

Use of this program by any entity other than R.W. Harris, Inc., Clearwater, F
is forbidden by the software license agreement.

Files Used for Analysis

Path to file locations: C:\Users\Chris Harris\Documents\Ensoft\Lpile2013\DATA\2014\
Name of input data file: Ft White West (B1)-FL.lp7d
Name of output report file: Ft White West (B1)-FL.lp7o
Name of plot output file: Ft White West (B1)-FL.lp7p
Name of runtime messeage file: Ft White West (B1)-FL.lp7r

Date and Time of Analysis

Date: November 14, 2014 Time: 11:34:33

BUILDING CODE SCHEDULE

MODEL CODE	EDITION	CONST TYPE	OCCUPANCY/ USE GROUP
Florida			
FL Building Code w/2012 Amendment	2010	VB	S-2
National Electrical Code	2008	-	-
FL Mechanical Code	2010	-	-
FL Energy Efficiency Code for Bldg Construction w/2012 Amendment (EXEMPT)	2010	-	-
FL Accessibility Standards	2012	-	-

DESIGN CRITERIA:

Roof Live Load (RLL) = 105 psf
Floor Live Load (FLL) = 250* psf
Basic Wind Speed (3-second Gust) (Vult) = 180 mph Wind Exposure = (C)
(Vasd) = 147 mph
Internal Pressure Coefficient GCpi = +/- 0.18"
Components & Cladding Wind = -63 psf & +47 psf (Walls)
Pressure (ASD) -119 psf & +19 psf (Roof)
Risk Category = III
Seismic Site Class = D
Seismic Importance Factor (Ie) = 1.25
Spectral Response Coefficients (Ss)/(S1) = 1.00/ 0.60
Seismic Design Category = D
Basic Seismic-Force-Resisting System → INTERMEDIATE PRECAST SHEAR WALLS
Analysis Procedure = Equivalent Lateral Force Procedure
Ground Snow Load (Pg) = 80 psf
Snow Importance Factor (Is) = 1.1
Snow Exposure Factor (Ce) = 1.1
Thermal Factor (Ct) = 1.2
Flat Roof Snow Load (Pf) = 81 psf

FOR ARCHITECT USE ONLY

FRANK J. RALEY
LICENSE
No. 57920
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JAN 15 2014

FOR ENGINEER USE ONLY

INDEX OF SHEETS

SHEET NO.	REV. NO.	SHEET DESCRIPTION
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* 1-2	0	EXTERIOR ELEVATIONS - "A"
* 1-3	0	EXTERIOR ELEVATIONS - "C"
* 1-4	0	EXTERIOR ELEVATIONS - "B" & "D"
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2-3	0	INTERIOR ELEVATIONS "C" & "D"
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* 3-2	0	ELECTRICAL SCHEMATIC #2
* 3-2.1	0	ELECTRICAL SCHEMATIC #2 (400 AMP)
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4-2	0	ALARM WIRING #2
5	0	ITEM LIST
5.1	0	ITEM LIST (400 AMP)
6	0	CABLE RACK - CEILING VIEW
7-1	0	HALO GROUND - CEILING VIEW
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* 8	0	FOUNDATION PLAN
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S2.1	0	STRUCTURAL LAYOUT - FLOOR
S3	0	STRUCTURAL LAYOUT - SIDE PANEL "A"
S3.1	0	STRUCTURAL LAYOUT - SIDE PANEL "A"
S4	0	STRUCTURAL LAYOUT - END PANEL "B"
S5	0	STRUCTURAL LAYOUT - SIDE PANEL "C"
S6	0	STRUCTURAL LAYOUT - END PANEL "D"
S6.1	0	STRUCTURAL LAYOUT - END PANEL "D"
S7	0	MISC. DETAILS
S7.1	0	MISC. DETAILS

*= DENOTES DRAWINGS WHICH HAVE WORK TO BE COMPLETED IN THE FIELD.

REFERENCED STANDARD DRAWINGS

DRAWING NO.	SHEET NO.	REV. NO.	SHEET DESCRIPTION
UECR-0006	1 OF 1	4	CABLE RACK W/ SEISMIC BRACING MOUNTING DETAILS

GENERAL DESIGN NOTES

1. This is an unmanned storage and equipment shelter only.
2. Shelter f'c = 5000psi @ 28 days.
3. Per FBC 2010 Table 705.8, any wall w/10% or less of unprotected openings may utilize a setback greater than 5'-0" Any wall w/15% of less of unprotected openings may utilize a setback greater than 10'-0" Any wall w/25% or less of unprotected openings may utilize a setback greater than 15'-0" Any wall w/45% or less of unprotected openings may utilize a setback greater than 20'-0" Any wall w/70% or less of unprotected openings may utilize a setback greater than 25'-0"
4. All items noted as "FIELDWORK" shall be installed and tested at the factory then removed for transport and reinstalled at the final site.
5. Model may be built as "mirror image"
6. Door swing and waveguide location may change due to site requirements.
7. Building shall be placed on a foundation supplied by others.
8. Building not designed for installation in a flood prone area.
9. Fire extinguisher installed by others when not supplied by Fibrebond.
10. Electrical components shown per customer's design requirements.
11. This building does not contain plumbing facilities. Plumbing facilities shall be provided on site subject to the local authority having jurisdiction.
12. This building is not designed to go to HVHZ.
13. This building is constructed in accordance with Product Approval 61G20-3.006
14. This building has not been reviewed for compliance with chapter 633 and is subject to review and approval of the fire inspector on site.
15. Manufacturer's data plate and state insignia shall be permanently mounted to or about the electrical panel.
16. This structure has been designed for erection on a site built permanent foundation and is not designed to be moved once erected or installed

Concrete Thickness (Inches)	Non-Rated	1 Hour	2 Hour
	2"	2.5"	4"

-All values for Lightweight Concrete
-Table 720.1(2) - 4-1.1 (FBC 2010)

FOR STATE USE ONLY

DATE 1-16-2014 CERT NO. SMP-47
PLAN NUMBER MFT27-D-9577
APPROVED BY WILLIAM TEGELER
(signature)

* OR 480psf (DL) over an area 2'-6" x 2'-6" in equipment room

FOR THIRD PARTY USE ONLY

NTA, Inc.
305 N. Oakland Avenue
Nappanee, Indiana 46550
574-773-1628

STRUCTURAL DESIGN BY RALEY AND ASSOCIATES, INC.
4913 SHED ROAD
BOSSIER CITY, LA 71111

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY
NTA INC.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	180 exp'c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer	Fibrebond

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

THIRD PARTY AGENCIES

Concrete Unit Weight=115pcf

Rev. 12-16-13

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for
FILE COPY
Code Compliance
PLANS EXAMINER

SPECIAL CONDITIONS/LIMITATIONS

- SEE SHEET 1-2, 1-3 & 1-4 FOR FIELDWORK.
- SEE GENERAL DESIGN NOTES 1, 3, 4, 7, 8, 9, 10 & 11
- THE USE OF THIS BUILDING IS NOT APPROVED FOR HAZARDOUS MATERIALS IN EXCESS OF THOSE MATERIALS LISTED IN FBC 2010 TABLE 307.1(1)

REV.	BY	DATE	REVISION	APP.	DATE	BOU	DATE

THESE PLANS ARE THE CONFIDENTIAL PROPERTY AND TRADE SECRETS OF FIBREBOND CORPORATION. ANY USE OF THESE DRAWINGS OR THE INFORMATION CONTAINED HEREIN FOR ANY REASON OTHER THAN AS EXPRESSLY AUTHORIZED BY FIBREBOND CORPORATION IS STRICTLY PROHIBITED. THESE DRAWINGS HAVE BEEN DISTRIBUTED WITH THE UNDERSTANDING THAT ANYONE RECEIVING OR OTHERWISE OBTAINING POSSESSION OF THEM WILL BE EXPRESSLY BOUND OF THEIR CONFIDENTIAL NATURE.

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

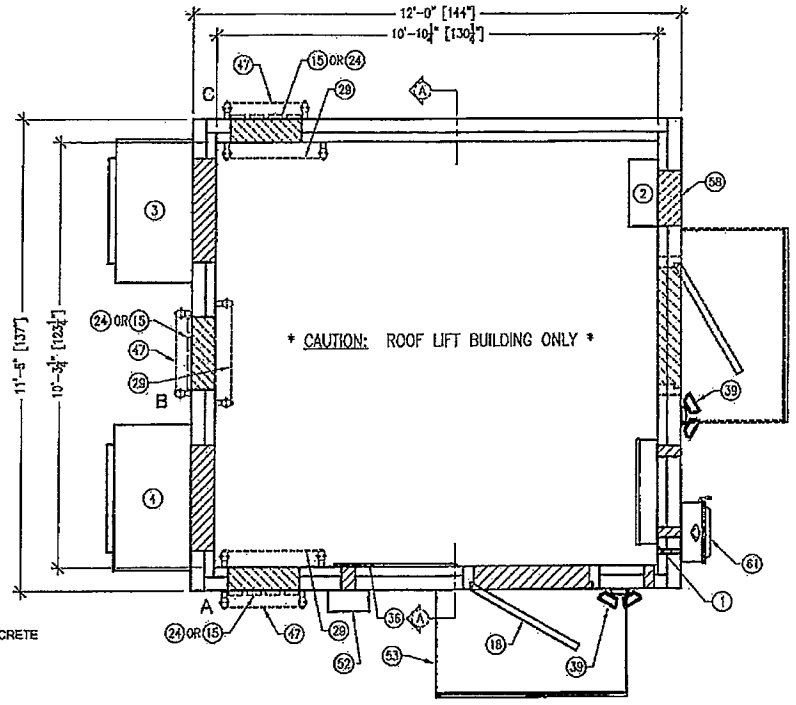
11'-5" X 12'-0" EQUIPMENT SHELTER
MANUFACTURED BUILDING DATA SHEET

DRN. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

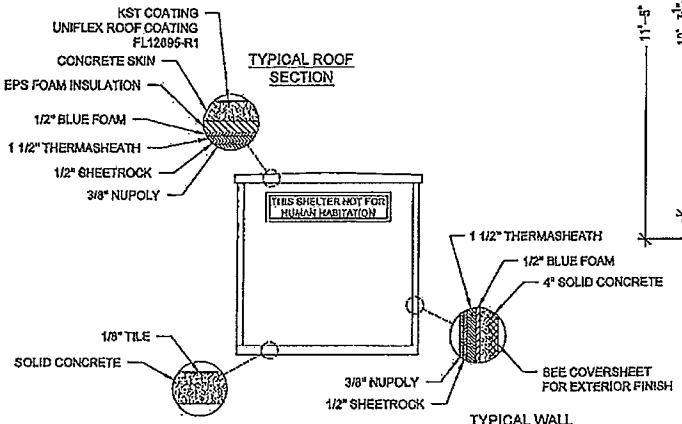
FIBREBOND

SCALE: NONE SHEET NO: 1-0.FL
B DWG NO: D-9577

NOTE:
1. ALL ITEMS MARKED FIELDWORK SHALL BE INSTALLED, TESTED, REMOVED & PACKED IN BUILDING PRIOR TO SHIPMENT.
2. ITEM 15, 24, 29 & 47 ARE SHOWN IN ALL OPTIONAL LOCATIONS. SEE BUILDING COVERSHEET FOR SELECTED LOCATIONS.
3. SECURE WITH LOCKNUTS AND REDUCING WASHER. CAP OFF PENETRATION. DO NOT GLUE.
4. CONNECT #2 SOLID TINNED WITH TWO-BOLT HOLE NON-COMPRESSION 1 SET SCREW TYPE LUG. PULL TO GROUND AND COIL 8'-0" SPARE.
5. CONNECT #2 SOLID TINNED WITH TWO-BOLT HOLE NON-COMPRESSION 1 SET SCREW TYPE LUG. TO DOOR FRAME AND CANOPY.
6. SEE HALO GROUND DETAIL SHEET FOR DETAILS.
7. SEE MISC INTERIOR DETAILS SHEET FOR EXTERIOR GROUND BAR MOUNTING HARDWARE AND DETAIL.
8. CUT RIGID CAST-IN CONDUITS 10" ABOVE FLOOR. ASSEMBLE CONNECTORS AND SEALTIGHT.

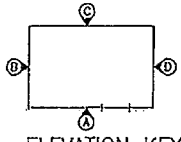


FLOOR PLAN
138.0 sq. ft



SECTION "A-A"
SCALE: N.T.S.

JAN 0 6 2014



ELEVATION KEY

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

REV.	BY	DATE	REVISION	APP.	DATE	BOU	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

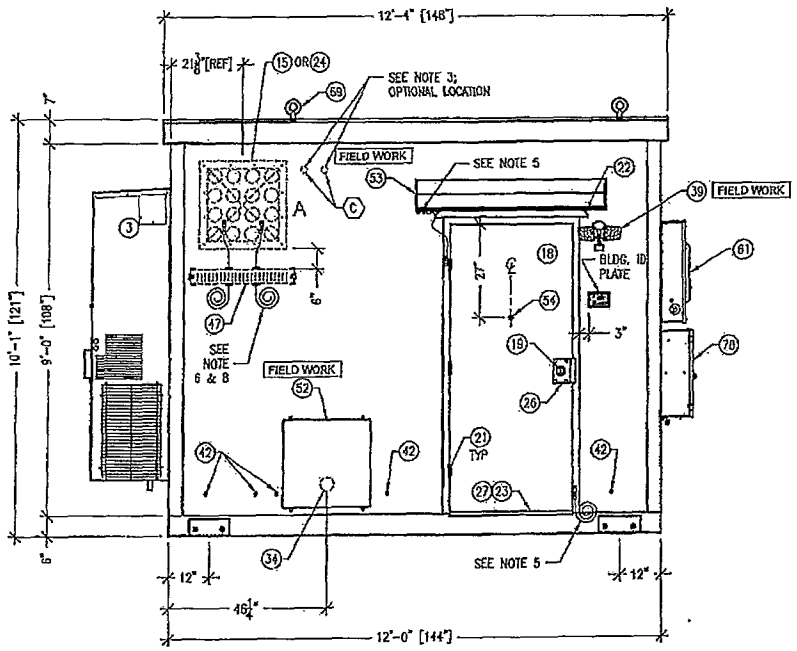
AT&T MOBILITY
11'-5" X 12'-0" EQUIPMENT SHELTER
FLOOR PLAN

CHK. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

FIBREBOND

SCALE: 3/8"=1'-0" | SHEET NO.: 1-1

B | DRG NO.: D-9577



NOTE:
SEE FLOOR PLAN FOR NOTES

ELEVATION "A"

* CAUTION: ROOF LIFT BUILDING ONLY *

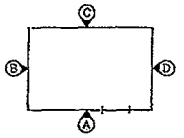
JAN 06 2014

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY
NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No..	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer	Fibrebond



ELEVATION KEY

REV.	BY	DATE	REVISION	APP.	DATE	DRW	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 624-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

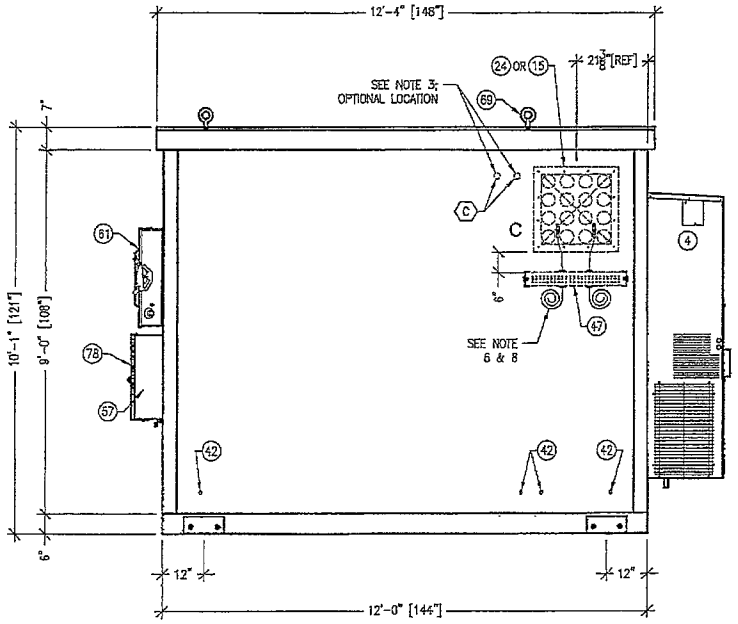
EXTERIOR ELEVATION "A"

DSN. BY:	DATE:	APP. BY:	DATE:
DRN. BY:	DATE:	APP. BY:	DATE:

FIBREBOND

SCALE: 3/8"=1'-0" | SHEET NO.: 1-2

SIZE: B | DWG NO.: D-9577



ELEVATION "C"

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 99-72

APPROVED BY NTA INC.

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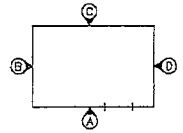
Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.:	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

NOTE:
SEE FLOOR PLAN FOR NOTES

* CAUTION. ROOF LIFT BUILDING ONLY *

DEC 23 2013
FRANK J. RALEY
LICENSE
No. 57660
STATE OF FLORIDA
PROFESSIONAL ENGINEER



ELEVATION KEY

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2514 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

EXTERIOR ELEVATION "C"

DRAWN BY:	DATE	CHECKED BY:	DATE
CHK'D BY:	DATE	APP'D BY:	DATE

FIBREBOND

SCALE: 3/8"=1'-0" | SHEET NO.: 1-3

DWG NO.: B D-9577

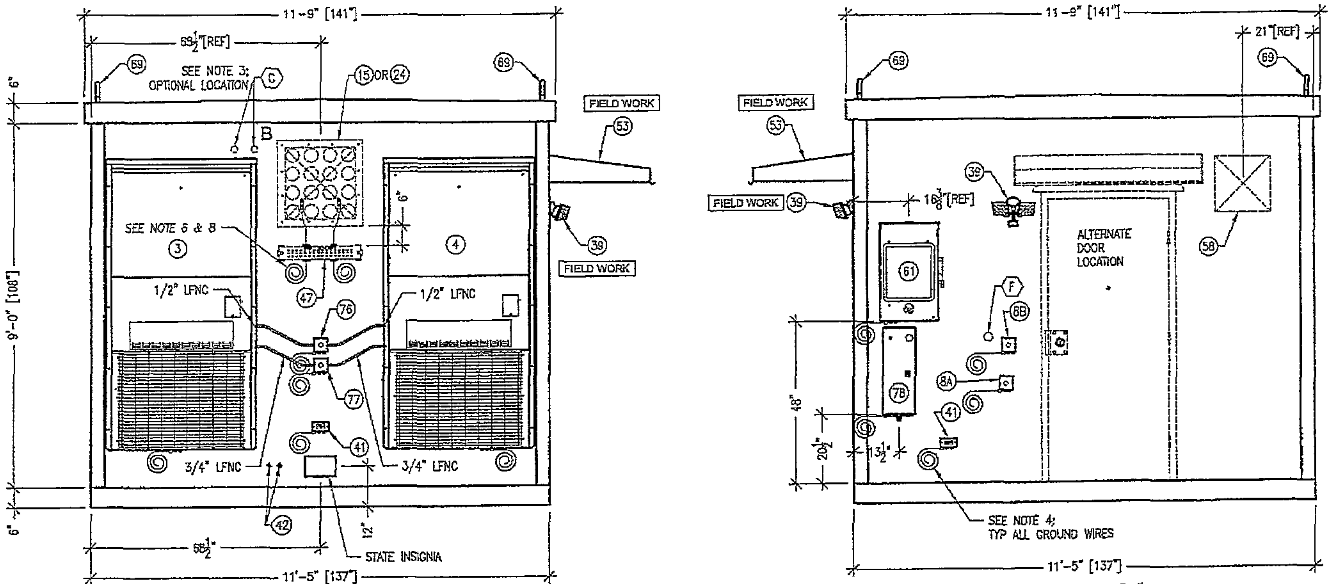
These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY

NTA INC.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

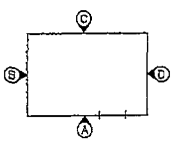


ELEVATION "B"

ELEVATION "D"

* CAUTION: ROOF LIFT BUILDING ONLY *

NOTE:
SEE FLOOR PLAN FOR NOTES



ELEVATION KEY

DEC 23 2013
FRANK J. RALEY
LICENSE No. 57829
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

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ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

EXTERIOR ELEVATIONS "B" & "D"

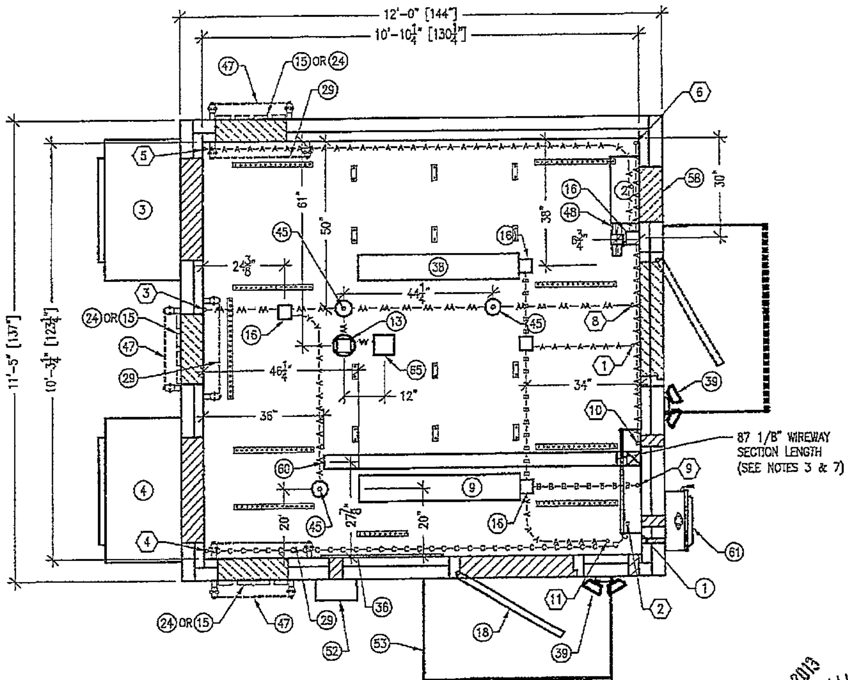
FIBREBOND

DRN. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

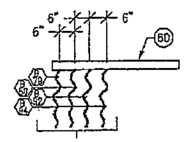
SCALE: 3/8"=1'-0" SHEET NO.: 1-4

B DWG NO.: D-9577

NOTES:
1. ALL MEASUREMENTS SHOWN ARE ACCURATE WITHIN ±1/4" ALL ADJACENT BOXES SHALL BE THE SAME DIMENSION.
2. THE LOCATIONS OF 4" X 4" AND 4 11/16" X 4 11/16" JUNCTION BOXES AND SMALLER ITEMS CAN BE ADJUSTED ±3" AS REQUIRED TO PREVENT INTERFERENCE WITH TRIM PIECES. INTERFERENCE WITH OTHER COMPONENTS WILL REQUIRE TRIM TO BE CUT
3. MOUNT ON UNISTRUT.
4. CONDUIT SHOULD BE INSTALLED AS SHOWN IF POSSIBLE. ANY CHANGES TO 90° BENDS, OFFSETS AND SADDLES MAY BE DONE WHEN NEEDED AND SHOULD BE UNDER THE GUIDANCE OF A QUALIFIED SENIOR CREW LEADER. ANY CHANGE MUST BE WITHIN THE GUIDELINES OF STANDARD OPERATING PROCEDURE FOR GENERAL CONDUIT RULES.
5. ALL CONDUIT TO HAVE A MINIMUM OF 3/4" BETWEEN THEM.
6. ALL CONDUIT TO BE 1/2" UNLESS OTHERWISE NOTED.
7. PULL 8'-0" OF FLEXIBLE METALLIC CONDUIT TO FLOOR. CONNECT TO ITEM (60) WITH 45° CONNECTOR. TYWRAP A 90° CONNECTOR TO EACH FLEXIBLE METALLIC CONDUIT.
8. ITEMS 15, 24, 29, 37, 47 AND 59 ARE SHOWN IN ALL OPTIONAL LOCATIONS. INSTALL ONLY AT INSTALLED WAVEGUIDE, LOCATE AS SHOWN ON ELEVATION VIEW. SEE BUILDING COVERSHEET FOR SELECTED LOCATIONS.
9. REMOVED NOTE.
10. ALL LIGHT SWITCHES TO BE MOUNTED AT 54" A.F.F UNLESS NOTED OTHERWISE.
11. ALL RECEPTACLES TO BE MOUNTED AT 18" A.F.F UNLESS NOTED OTHERWISE.
12. ALL CONDUIT SHALL BE EMT UNLESS OTHERWISE NOTED.
13. ALL CONDUIT THROUGH A WALL SHALL BE RIGID UNLESS OTHERWISE NOTED.



CEILING VIEW



SEE NOTE 7

CONDUIT KEY		
A.C.	LOW VOLTAGE	PVC
A = 1/2"	AA = 1/2"	XA = 1/2"
B = 3/4"	BB = 3/4"	XB = 3/4"
C = 1"	CC = 1"	XC = 1"
D = 1 1/4"	DD = 1 1/4"	XD 1 1/4"
E = 1 1/2"	EE = 1 1/2"	XE = 1 1/2"
F = 2"	FF = 2"	XF = 2"
G = 2 1/2"	GG = 2 1/2"	XG = 2 1/2"
H = 3"	HH = 3"	XH = 3"
I = 3 1/2"	II = 3 1/2"	XI = 3 1/2"
J = 4"	JJ = 4"	XJ = 4"
OOOOOO = FLEXIBLE NONMETALLIC CONDUIT		

DEC 23 2013
FRANK J. RALEY
LICENSE No. 67835
STATE OF FLORIDA
PROFESSIONAL ENGINEER

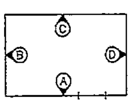
These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY

NTA INC.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer	Fibrebond

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.



ELEVATION KEY

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

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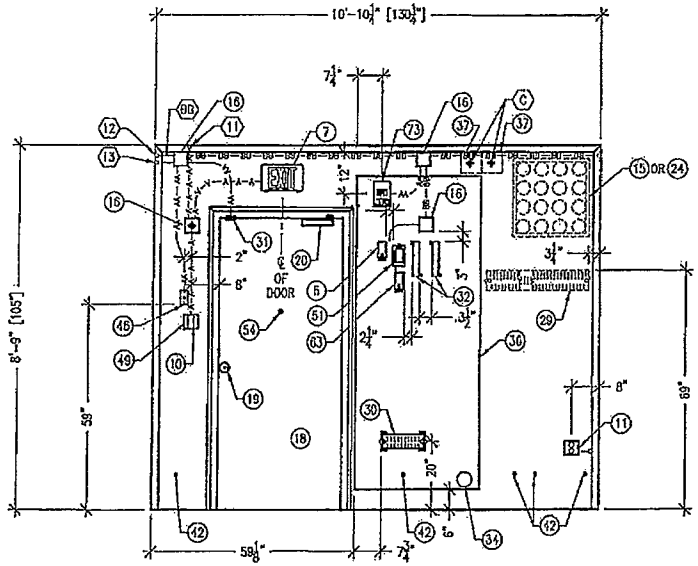
1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY
11'-5" X 12'-0" EQUIPMENT SHELTER
INTERIOR CEILING VIEW

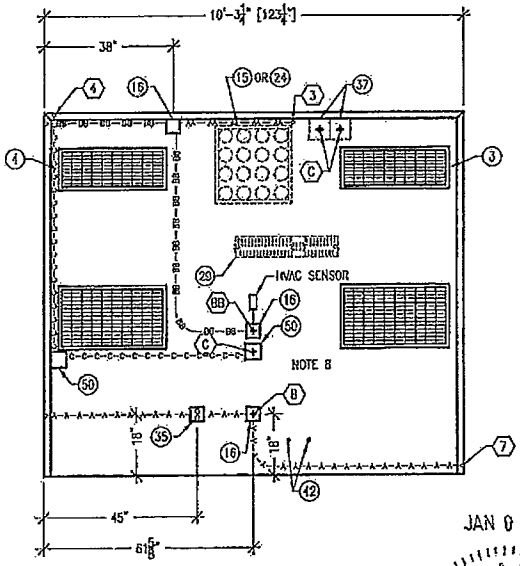
DRN. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

FIBREBOND

SCALE: 3/8"=1'-0" SHEET NO.: 2-1
B DWG NO.: D-9577



ELEVATION "A"



ELEVATION "B"

NOTE:
SEE INTERIOR CEILING VIEW FOR NOTES

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 98-72

APPROVED BY NTA INC.

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Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

JAN 0 6 2014

ELEVATION KEY

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

1900 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (600) 824-2814 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

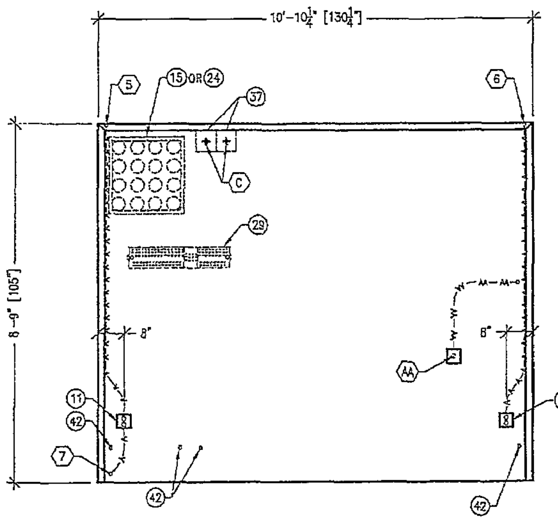
INTERIOR ELEVATIONS "A" & "B"

FIBREBOND

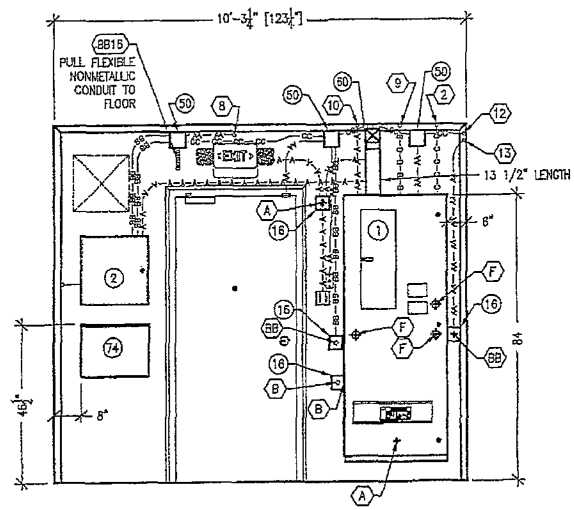
DES. BY:	DATE:	APP. BY:	DATE:
DRN. BY:	DATE:	APP. BY:	DATE:

SCALE: 3/8"=1'-0" SHEET NO.: 2-2

B DRW. NO. D-9577



ELEVATION "C"



ELEVATION "D"

NOTE:
SEE INTERIOR CEILING VIEW FOR NOTES

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY

NTA INC

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

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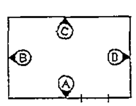
DEC 23 2013

FRANK J. RALEY ★ LICENSE No. 57820 ★ STATE OF FLORIDA ★ PROFESSIONAL ENGINEER



ELEVATION KEY

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

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ph. (800) 824-2614 www.fibrebond.com

FIBREBOND

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

INTERIOR ELEVATIONS "C" & "D"

DRN. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

SCALE: 3/8"=1'-0" | SHEET NO.: 2-3

B | DWG NO.: D-9577

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY

NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	180 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer	Fibrebond

CKT	LOAD: DESCRIPTION	QTY	UNIT V.A.	LOAD PER PHASE (VA) PHASE A	PHASE B	WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	LOAD PER PHASE (VA) PHASE A	PHASE B	UNIT V.A.	QTY	LOAD: DESCRIPTION	CKT
1	HVAC #1	1	3324	3324		BLK		X		8	(10)	40	40	(10)	8		X		BLK	3324		3324	1	HVAC #2	2
3		1	3324		3324	RED													RED		3324	3324	1		4
5	RECTIFIER #1	1	800	800		BLK	X			10	10	30	20	(12)	12		X		BLK	1575		1575	1	BLOCK HEATER & BATT. WARMER	6
7		1	800		800	RED							20	–	12			X	RED		900	180	5	INTERIOR RECEPTACLES & CORD REEL	8
9	RECTIFIER #2	1	800	800		BLK	X			10	10	30	20	12	12			X	BLK	143		64/15	2/1	INTERIOR LIGHTS	10
11		1	800		800	RED							20	12	12			X	RED		62	31	2	EXTERIOR LIGHTS	12
13	RECTIFIER #3	1	800	800		BLK	X			10	10	30	20	(12)	12			X	BLK	360		180	2	EXTERIOR GFCI RECEPTACLES	14
15		1	800		800	RED							20	(12)	12		X		RED		1380	1380	1	BATT. CHARGER & GFCI RECP	16
17	RECTIFIER #4	1	800	800		BLK	X			10	10	30	20	(12)	12			X	BLK	180		180	1	HVAC CONTROLLER	18
19		1	800		800	RED													RED						20
21	RECTIFIER #5	1	800	800		BLK	X			10	10	30							BLK						22
23		1	800		800	RED													RED						24
25	RECTIFIER #6	1	800	800		BLK	X			10	10	30							BLK						26
27		1	800		800	RED													RED						28
29	RECTIFIER #7	1	800	800		BLK	X			10	10	30							BLK						30
31		1	800		800	RED													RED						32
33	RECTIFIER #8	1	800	800		BLK	X			10	10	30							BLK						34
35		1	800		800	RED													RED						36
37	RECTIFIER #9	1	800	800		BLK	X			10	10	30							BLK						38
39		1	800		800	RED													RED						40
41						BLK													BLK						42

	A	B		A	B			
SUBTOTAL CONTINUOUS	7200	7200	SUBTOTAL CONTINUOUS	883	862		TOTAL KVA CONTINUOUS x 1.25	20.08
SUBTOTAL NON-CONTINUOUS	3324	3324	SUBTOTAL NON-CONTINUOUS	4899	4704		TOTAL KVA NON-CONTINUOUS	16.25
SUBTOTAL SUB-PANEL	–	–	SUBTOTAL SUB-PANEL	–	–		TOTAL KVA SUB-PANEL	–
							TOTAL KVA	36.31
							TOTAL AMPS	151.3

PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 1)

MAIN LUGS: N/A	MAIN BREAKER: 200 AMP	MAIN BREAKER A.I.C RATING: 22,000 A.I.C	BRANCH BREAKER A.I.C RATING: 10,000 A.I.C	BRANCH BREAKER TYPE: SQUARE D – BOLT ON
VOLTAGE: 120/240	CYCLE: 60	PHASE: 1	WIRES: 3	MAIN COPPER BUS: 200 AMPS	NEUTRAL: 200 AMPS

NOTES:

1 ALL WIRE TO BE #12 THHN/THWN UNLESS NOTED OTHERWISE.
   COLOR CODE:
   • Aϕ = BLACK
   • Bϕ = RED
   • NEUTRAL = WHITE
   • GROUND = GREEN
2. ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
3. LABEL SERVICE DISCONNECT WITH A RED TAG.
4. SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
5. SEE ELECTRICAL SCHEMATIC #2 SHEET FOR MORE DETAILS.
6. PULL ONE GROUND CONDUCTOR PER FLEXIBLE METALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
7 ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
8. EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.

FRANK J. RALEY — DEC 23 2013 — PROFESSIONAL ENGINEER

PC = PHOTOCELL
(M) = MOTION DETECTOR
= CONDUIT GROUND
= NON-DEDICATED GROUND
(#) = DEDICATED GROUND
<#> = ISOLATED GROUND

REV.	BY	DATE	REVISION	APP	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

ELECTRICAL SCHEMATIC #1

DRN. BY: DATE: APP. BY: DATE:
CHK. BY: DATE: APP. BY: DATE:

FIBREBOND

SCALE: NONE SHEET NO.: 3-1

B DWG NO.: D-9577

CKT	LOAD DESCRIPTION	QTY.	UNIT V.A.	LOAD PER PHASE (VA) PHASE A	B	WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	LOAD PER PHASE (VA) PHASE A	B	UNIT V.A.	QTY.	LOAD DESCRIPTION	CKT
1	HVAC #1	1	3324	3324		BLK		X		6	(10)	40	40	(10)	6		X		BLK	3324		3324	1	HVAC #2	2
3		1	3324		3324	RED													RED		3324	3324	1		4
5	RECTIFIER #1	1	800	800		BLK	X			10	10	30	20	(12)	12		X		BLK	1575		1575	1	BLOCK HEATER & BATT. WARMER	6
7		1	800		800	RED							20	–	12			X	RED		900	180	5	INTERIOR RECEPTACLES & CORD REEL	8
9	RECTIFIER #2	1	800	800		BLK	X			10	10	30	20	12	12			X	BLK	143		64/15	2/1	INTERIOR LIGHTS	10
11		1	800		800	RED							20	12	12			X	RED		62	31	2	EXTERIOR LIGHTS	12
13	RECTIFIER #3	1	800	800		BLK	X			10	10	30	20	(12)	12			X	BLK	360		180	2	EXTERIOR GFCI RECEPTACLES	14
15		1	800		800	RED							20	(12)	12		X		RED		1380	1380	1	BATT CHARGER & GFCI RECP.	16
17	RECTIFIER #4	1	800	800		BLK	X			10	10	30	20	(12)	12			X	BLK	180		180	1	HVAC CONTROLLER	18
19		1	800		800	RED													RED						20
21	RECTIFIER #5	1	800	800		BLK	X			10	10	30							BLK						22
23		1	800		800	RED													RED						24
25	RECTIFIER #6	1	800	800		BLK	X			10	10	30							BLK						26
27		1	800		800	RED													RED						28
29	RECTIFIER #7	1	800	800		BLK	X			10	10	30							BLK						30
31		1	800		800	RED													RED						32
33	RECTIFIER #8	1	800	800		BLK	X			10	10	30							BLK						34
35		1	800		800	RED													RED						36
37	RECTIFIER #9	1	800	800		BLK	X			10	10	30							BLK						38
39		1	800		800	RED													RED						40
41						BLK													BLK						42
	SUBTOTAL CONTINUOUS			7200	7200															683	952	SUBTOTAL CONTINUOUS		TOTAL KVA CONTINUOUS x 1.25	20.06
	SUBTOTAL NON-CONTINUOUS			3324	3324															4899	4704	SUBTOTAL NON-CONTINUOUS		TOTAL KVA NON-CONTINUOUS	16.25
	SUBTOTAL SUB-PANEL			–	–															–	–	SUBTOTAL SUB-PANEL		TOTAL KVA SUB-PANEL	–
																								TOTAL KVA	36.31
																								TOTAL AMPS	151.3

PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 1)

MAIN LUGS: N/A | MAIN BREAKER: 400 AMP | MAIN BREAKER A.I.C RATING: 22,000 A.I.C | BRANCH BREAKER A.I.C RATING: 10,000 A.I.C | BRANCH BREAKER TYPE: SQUARE D – BOLT ON

VOLTAGE: 120/240 | CYCLE: 60 | PHASE: 1 | WIRES: 3 | MAIN COPPER BUS: – | NEUTRAL –

NOTE 6

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY NTA INC.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp C
Fire Rating of Ext. Walls:	0
Plan No.:	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer	Fibrebond

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

DEC 23 2013

FRANK J. RALEY ... PROFESSIONAL ...

PHOTOCELL, MOTION DETECTOR, CONDUIT GROUND, NON-DEDICATED GROUND, DEDICATED GROUND, ISOLATED GROUND

NOTES:

1. ALL WIRE TO BE #12 THHN/THWN UNLESS NOTED OTHERWISE.
   COLOR CODE:
   - AØ = BLACK
   - BØ = RED
   - NEUTRAL = WHITE
   - GROUND = GREEN
2. ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
3. LABEL SERVICE DISCONNECT WITH A RED TAG.
4. SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
5. SEE ELECTRICAL SCHEMATIC #2 SHEET FOR MORE DETAILS.
6. PULL ONE GROUND CONDUCTOR PER FLEXIBLE METALLIC CONDUIT FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
7. ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
8. EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

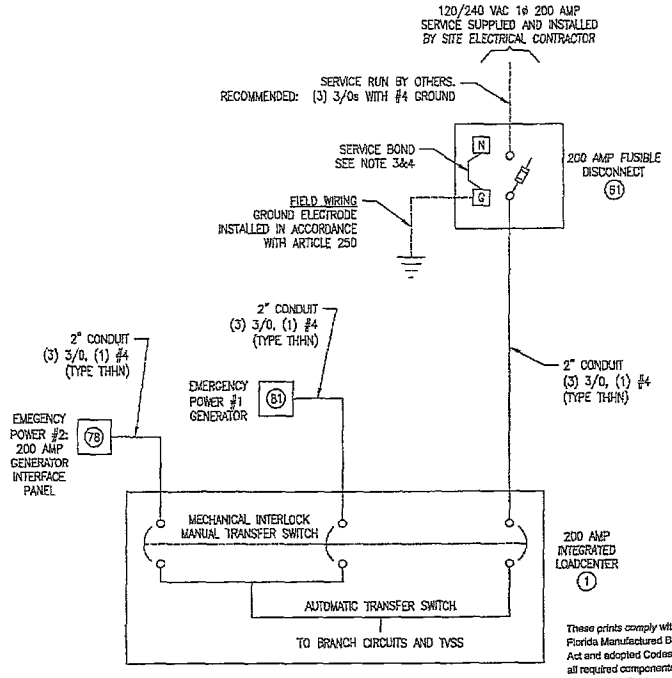
ELECTRICAL SCHEMATIC #1

DRN. BY: DATE: APP. BY: DATE:
CHK. BY: DATE: APP. BY: DATE:

FIBREBOND

SCALE: NONE | SHEET NO: 3-1.1

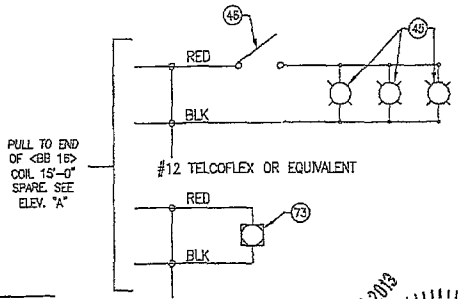
B DWG NO: D-9577



POWER RISER BLOCK DIAGRAM

NOTES:

1 ——— DASHED LINES DENOTE FIELD WORK.
2. BUILDING ELECTRICAL SYSTEM IS RATED AT 10,000 A.I.C. IF HIGHER RATINGS ARE REQUIRED, IT IS THE RESPONSIBILITY OF SITE CONTRACTOR/ ENGINEER TO MEET SUCH REQUIREMENTS.
3. SERVICE BOND IS TO BE MADE BY DEVICES (STRAPS, SCREWS, ETC.) SUPPLIED BY EQUIPMENT MANUFACTURER. IF NO SUCH DEVICE IS SUPPLIED, BOND IS TO BE MADE IN ACCORDANCE WITH NEC ARTICLE 250.
4. WHEN SERVICE OVER CURRENT DISCONNECT IS FIELD INSTALLED AND HAS A NEUTRAL TO GROUND CONNECTION ESTABLISHED. REMOVE NEUTRAL TO GROUND CONNECTION IN TRANSFER SWITCH.
5. CONDUCTOR OVER CURRENT PROTECTION DEVICES ARE SELECTED IN ACCORDANCE WITH NEC (ARTICLE 240.3).
6. CONDUCTOR SIZING IS SELECTED FROM NEC (ARTICLE 215.2).
7 ALL LUGS THAT HOLD MORE THAN ONE WIRE SHALL BE LISTED FOR MULTI-BARRELL CONNECTIONS.
8. ALL CONDUCTORS SHALL BE COPPER.
9. LABEL SERVICE DISCONNECT WITH A RED TAG.
10. EQUIPMENT TERMINATION LUGS & CONDUCTORS ARE RATED AT A MINIMUM OF 75° C.
11 RECOMMENDED SERVICE ENTRANCE CONDUCTOR SIZE: (3) 3/0 AWG & (1) #4 GROUND



DC WIRING

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY

NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.:	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

DEC. 3 2013 FRANK J. RALEY LICENSE No. 57520 STATE OF FLORIDA PROFESSIONAL ENGINEER

REV.	BY	DATE	REVISION	APP	DATE	BDM	DATE

1800 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

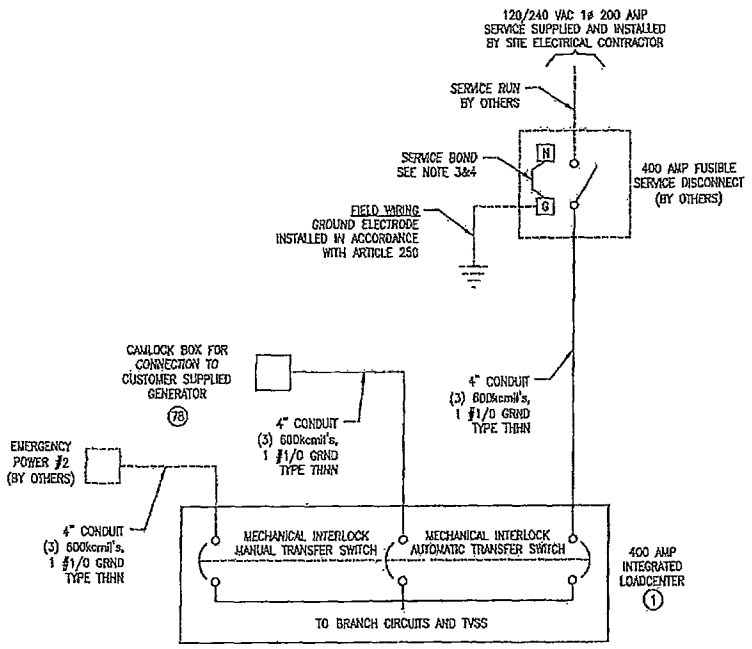
ELECTRICAL SCHEMATIC #2

DSN. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

FIBREBOND

SCALE: NONE SHEET NO.: 3-2

DWG NO.: B D-9577



POWER RISER BLOCK DIAGRAM

NOTES:

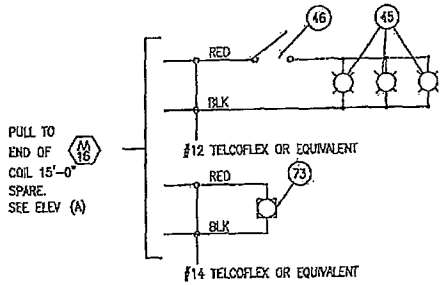
1 ——— DASHED LINES DENOTE FIELD WORK
2. BUILDING ELECTRICAL SYSTEM IS RATED AT 22,000 A.I.C. IF HIGHER RATINGS ARE REQUIRED, IT IS THE RESPONSIBILITY OF SITE CONTRACTOR/ENGINEER TO MEET SUCH REQUIREMENTS.
3. SERVICE BOND IS TO BE MADE BY DEVICES (STRAPS, SCREWS, ETC.) SUPPLIED BY EQUIPMENT MANUFACTURER. IF NO SUCH DEVICE IS SUPPLIED, BOND IS TO BE MADE IN ACCORDANCE WITH NEC ARTICLE 250.
4. WHEN SERVICE OVERCURRENT DISCONNECT IS FIELD INSTALLED AND HAS A NEUTRAL TO GROUND CONNECTION ESTABLISHED, REMOVE NEUTRAL TO GROUND CONNECTION IN TRANSFER SWITCH.
5. CONDUCTOR OVERCURRENT PROTECTION DEVICES ARE SELECTED IN ACCORDANCE WITH NEC (ARTICLE 240.3).
6. CONDUCTOR SIZING IS SELECTED FROM NEC (ARTICLE 215.2).
7 ALL LUGS THAT HOLD MORE THAN ONE WIRE SHALL BE LISTED FOR MULTI-BARRELL CONNECTIONS.
8. ALL CONDUCTORS SHALL BE COPPER.
9. LABEL SERVICE DISCONNECT WITH A RED TAG.
10. RECOMMENDED SERVICE ENTRANCE CONDUCTOR SIZE: (3) 600 KCMIL & (1) 1/0 GROUND.
11 EQUIPMENT TERMINATION LUGS & CONDUCTORS ARE RATED AT A MINIMUM OF 75° C

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 88-72

APPROVED BY NTA INC.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	130 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.



DC WIRING

JAN 0 6 2014

REV.	BY	DATE	REVISION	APP.	DATE	DRW	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

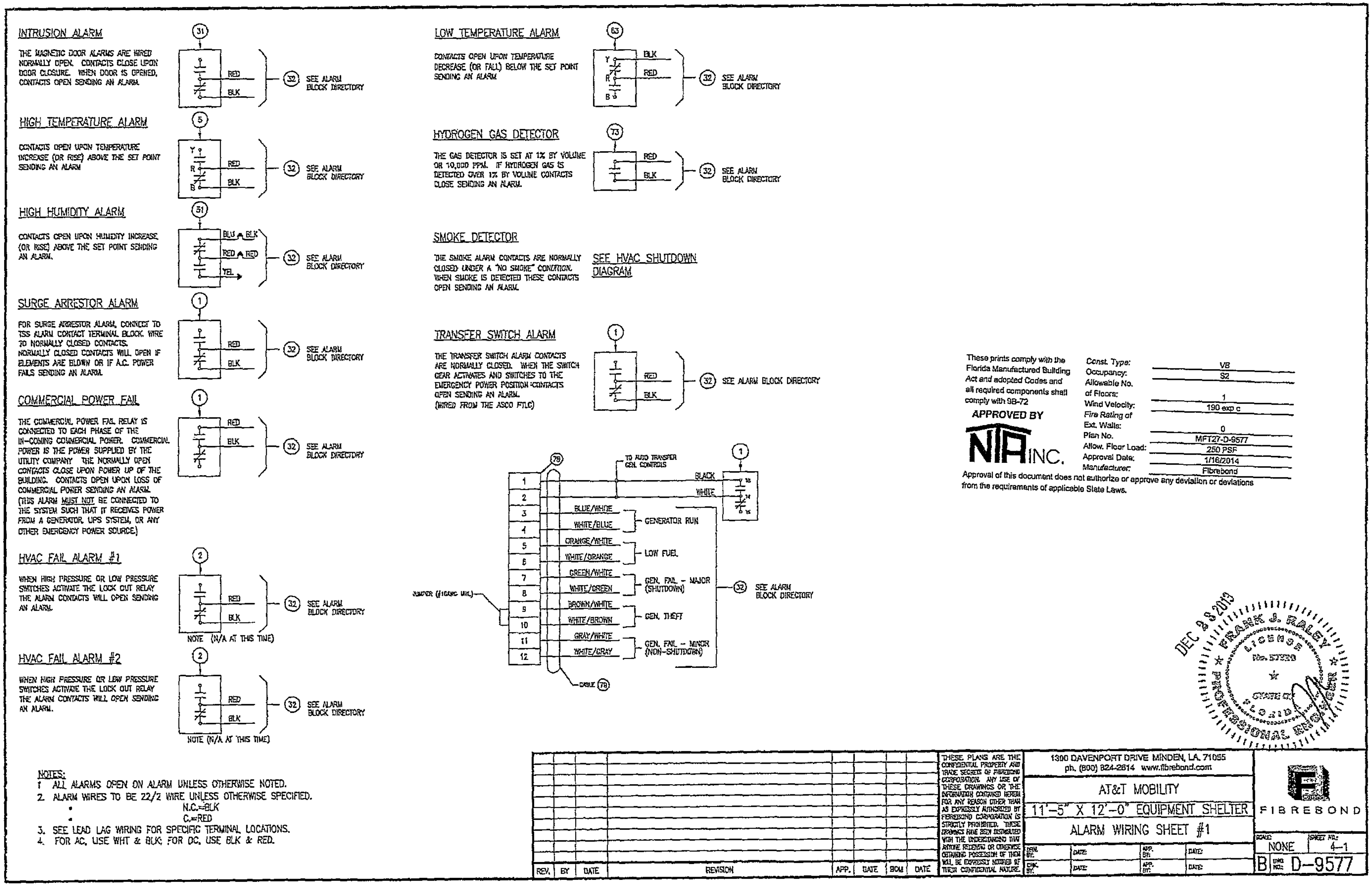
ELECTRICAL SCHEMATIC #2

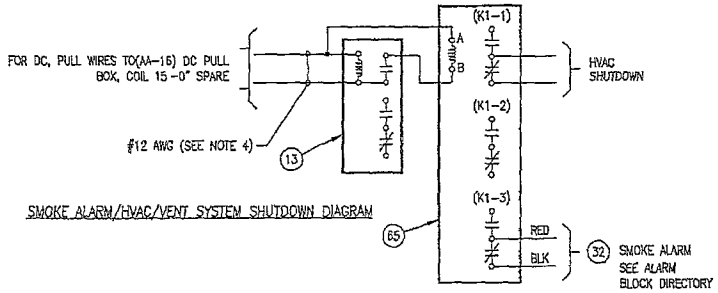
DRW BY:	DATE:	APP. BY:	DATE:
CHK BY:	DATE:	APP. BY:	DATE:

FIBREBOND

BOARD: NONE | SHEET NO.: 3-2.1

DWG SIZE: B | DWG NO.: D-9577


INTRUSION ALARM
THE MAGNETIC DOOR ALARMS ARE WIRED NORMALLY OPEN. CONTACTS CLOSE UPON DOOR CLOSURE. WHEN DOOR IS OPENED, CONTACTS OPEN SENDING AN ALARM.
HIGH TEMPERATURE ALARM
CONTACTS OPEN UPON TEMPERATURE INCREASE (OR RISE) ABOVE THE SET POINT SENDING AN ALARM
HIGH HUMIDITY ALARM
CONTACTS OPEN UPON HUMIDITY INCREASE (OR RISE) ABOVE THE SET POINT SENDING AN ALARM.
SURGE ARRESTOR ALARM
FOR SURGE ARRESTOR ALARM, CONNECT TO TSS ALARM CONTACT TERMINAL BLOCK. WIRE TO NORMALLY CLOSED CONTACTS. NORMALLY CLOSED CONTACTS WILL OPEN IF ELEMENTS ARE BLOWN OR IF A.C. POWER FAILS SENDING AN ALARM.
COMMERCIAL POWER FAIL
THE COMMERCIAL POWER FAIL RELAY IS CONNECTED TO EACH PHASE OF THE IN-COMING COMMERCIAL POWER. COMMERCIAL POWER IS THE POWER SUPPLIED BY THE UTILITY COMPANY. THE NORMALLY OPEN CONTACTS CLOSE UPON POWER UP OF THE BUILDING. CONTACTS OPEN UPON LOSS OF COMMERCIAL POWER SENDING AN ALARM. (THIS ALARM MUST NOT BE CONNECTED TO THE SYSTEM SUCH THAT IT RECEIVES POWER FROM A GENERATOR, UPS SYSTEM, OR ANY OTHER EMERGENCY POWER SOURCE)
HVAC FAIL ALARM #1
WHEN HIGH PRESSURE OR LOW PRESSURE SWITCHES ACTIVATE THE LOCK OUT RELAY THE ALARM CONTACTS WILL OPEN SENDING AN ALARM.
NOTE (N/A AT THIS TIME)
HVAC FAIL ALARM #2
WHEN HIGH PRESSURE OR LOW PRESSURE SWITCHES ACTIVATE THE LOCK OUT RELAY THE ALARM CONTACTS WILL OPEN SENDING AN ALARM.
NOTE (N/A AT THIS TIME)
31
5
51
1
2
RED
BLK
BLU BLK
RED RED
YEL
Y
R
B
32
SEE ALARM BLOCK DIRECTORY
LOW TEMPERATURE ALARM
CONTACTS OPEN UPON TEMPERATURE DECREASE (OR FALL) BELOW THE SET POINT SENDING AN ALARM
63
HYDROGEN GAS DETECTOR
THE GAS DETECTOR IS SET AT 1% BY VOLUME OR 10,000 PPM. IF HYDROGEN GAS IS DETECTED OVER 1% BY VOLUME CONTACTS CLOSE SENDING AN ALARM.
73
SMOKE DETECTOR
THE SMOKE ALARM CONTACTS ARE NORMALLY CLOSED UNDER A "NO SMOKE" CONDITION. WHEN SMOKE IS DETECTED THESE CONTACTS OPEN SENDING AN ALARM.
SEE HVAC SHUTDOWN DIAGRAM
TRANSFER SWITCH ALARM
THE TRANSFER SWITCH ALARM CONTACTS ARE NORMALLY CLOSED. WHEN THE SWITCH GEAR ACTIVATES AND SWITCHES TO THE EMERGENCY POWER POSITION CONTACTS OPEN SENDING AN ALARM. (WIRED FROM THE ASCO FTLC)
SEE ALARM BLOCK DIRECTORY
78
TO AUTO TRANSFER GEN. CONTROLS
BLACK
WHITE
BLUE/WHITE
WHITE/BLUE
ORANGE/WHITE
WHITE/ORANGE
GREEN/WHITE
WHITE/GREEN
BROWN/WHITE
WHITE/BROWN
GRAY/WHITE
WHITE/GRAY
GENERATOR RUN
LOW FUEL
GEN. FAIL - MAJOR (SHUTDOWN)
GEN. THEFT
GEN. FAIL - MINOR (NON-SHUTDOWN)
JUMPER (FIELD INST.)
CABLE 78
1 2 3 4 5 6 7 8 9 10 11 12
NOTES:
1. ALL ALARMS OPEN ON ALARM UNLESS OTHERWISE NOTED.
2. ALARM WIRES TO BE 22/2 WIRE UNLESS OTHERWISE SPECIFIED.
N.C.=BLK
C.=RED
3. SEE LEAD LAG WIRING FOR SPECIFIC TERMINAL LOCATIONS.
4. FOR AC, USE WHT & BLK; FOR DC, USE BLK & RED.
These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72
APPROVED BY
NTA INC.
Const. Type: VB
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 190 exp c
Fire Rating of Ext. Walls: 0
Plan No. MFT27-D-9577
Allow. Floor Load: 250 PSF
Approval Date: 1/16/2014
Manufacturer: Fibrebond
Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.
DEC 2 3 2013
FRANK J. RALEY
LICENSE No. 57330
STATE OF FLORIDA
PROFESSIONAL ENGINEER
REV. BY DATE REVISION APP. DATE BOM DATE
THESE PLANS ARE THE CONFIDENTIAL PROPERTY AND TRADE SECRETS OF FIBREBOND CORPORATION. ANY USE OF THESE DRAWINGS OR THE INFORMATION CONTAINED HEREIN FOR ANY REASON OTHER THAN AS EXPRESSLY AUTHORIZED BY FIBREBOND CORPORATION IS STRICTLY PROHIBITED. THESE DRAWINGS HAVE BEEN DISPATCHED WITH THE UNDERSTANDING THAT ANYONE RECEIVING OR OTHERWISE OBTAINING POSSESSION OF THEM WILL BE EXPRESSLY NOTIFIED OF THEIR CONFIDENTIAL NATURE.
1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com
AT&T MOBILITY
11'-5" X 12'-0" EQUIPMENT SHELTER
ALARM WIRING SHEET #1
DRN. BY: DATE: APP. BY: DATE:
CHK. BY: DATE: APP. BY: DATE:
FIBREBOND
SCALE: NONE
SHEET NO.: 4-1
B DWG NO.: D-9577



SMOKE ALARM/HVAC/VENT SYSTEM SHUTDOWN DIAGRAM

ALARM TERMINAL BLOCK (32)

	ALARM BLOCK #1	ALARM BLOCK #2
INTRUSION DOOR ALARM	1	1
COMMERCIAL POWER FAIL	2	2
SURGE ARRESTOR ALARM	3	3
EQUIP ROOM SMOKE ALARM	4	4
HYDROGEN GAS ALARM	5	5
HIGH HUMIDITY ALARM	6	6
HIGH TEMPERATURE ALARM	7	7
LOW TEMPERATURE ALARM	8	8
HVAC FAIL #1 ALARM	9	9
HVAC FAIL #2 ALARM	10	10
GEN. RUN ALARM	11	11
GEN. LOW FUEL ALARM	12	12
GEN. SHUTDOWN ALARM	13	13
GEN. MAJOR ALARM	14	14
	15	15
	16	16
	17	17
GEN. FAIL ALARM	18	18
	19	19
FUEL BASIN RUPTURE ALARM	20	20
TRANSFER SWITCH FAIL	21	21
PORTABLE GEN. FAIL ALARM	22	22
PORTABLE GEN. LOW FUEL	23	23
PORTABLE GEN. MAJOR	24	24
PORTABLE GEN. RUNNING	25	25
PORTABLE GEN. THEFT ALARM	26	26
	27	27
	28	28
	29	29
	30	30
	31	31
	32	32
	33	33
	34	34
	35	35
	36	36
	37	37
	38	38
	39	39
	40	40
	41	41
	42	42
	43	43
	44	44
	45	45
	46	46
	47	47
	48	48
	49	49
	50	50

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 98-72

APPROVED BY

NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.:	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

DEC 23 2013
FRANK J. RALEY
LICENSE
No. 57029
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NOTES:
1 SEE ALARM WIRING SHEET #1 FOR NOTES

REV.	BY	DATE	REVISION	APP.	DATE	BCM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

ALARM WIRING SHEET #2

DRN. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

FIBREBOND

SCALE: NONE | SHEET NO.: 4-2

DWG NO.: B D-9577

ITEM LIST

ITEM NO.	FIBREBOND PART NO.	MANUFACTURER PART NO.	MANUFACTURER	DESCRIPTION
1.	823-00023	AA1220081-3S	INTERSECT	PANEL, ASCO ILC, SERIES, AA1220081-3S
2.	833-00037	ASDCA4280A1	MARVAIR	CONTROLLER ASDCA 48 VDC REMOTE PLC W/04.05 KW KCH
3.	837-00358	ASDCA48ACA050C-VAR	MARVAIR	AC MARVAIR 4 TON 1PH 5KW W/DC FREE AIR SYSTEM R410A
4.	837-00358	ASDCA48ACA050C-VAR	MARVAIR	AC MARVAIR 4 TON 1PH 5KW W/DC FREE AIR SYSTEM R410A
5.	835-10877	1UHH2	DAYTON	HIGH TEMP ALARM
6.				
7.	831-00117	–	TECP20784	FIXTURE, LED COMBO EMERGENCY EXIT WITH RED LETTERS WHITE BOX W/LIGHTS ON BOTTOM
8.	822-21981/822-13401	–	–	4" W.P.J.B. W/ 3/4" PLG W/ COVER
9.	831-00094/831-00093	207 A 232	TEXAS FLOURESCENTS	FIXTURE, INTERIOR LIGHT, 32W, W/A 2 BULB T8 4' WITH LENS
10.	827-00088	CSB120I	HUBBELL	SWITCH 20AMP 120V SINGLE POLE AC TOGGLE
11.	827-00071/822-10583/822-10160		COOPER	20AMP DUPLEX RECEPTACLE / 4" x 4" J.B.
12.				
13.	848-00027/822-10150	050223-48	CPS	SMOKE DETECTOR, -48VDC WITH ALARM/4X4 J-BOX
14.				
15.	818-00033	–	HARGER	WAVEGUIDE ENTRY, 16 PORT, 4"
16.	822-10159	4SCEK	APPLETON	4" x 4" J.B. (1/2" & 3/4" KNOCKOUT)
17.				
18.	846-00139	SWR-518-4	PREMIER	DOOR, 3070 18 GA. GALVANIZED, WITH 161 PREP POLYSTYRENE INSULATION, 1.5 HOUR FIRE RATED FL6378-R3
19.	847-00195	93K-7-D-150-S3-626	STANLEY-BEST	BEST, 9K SERIES DOOR LOCK FL18202.1
20.	847-00001	2203	SARGENT	DOOR CLOSURE, 90'
21.	847-00343	1279	HAGER	FIVE KNUCKLE BALL BEARING HINGE FL13778.2
22.	847-12450	1MD-42	NATIONAL GUARD	DRIP STRIP, 42"
23.	847-12569	198NA-36	NATIONAL GUARD	DOOR SWEEP, 36"
24.	192797	–	–	COVER PLATE, 25 1/2" X 25 1/2" PAINTED MESA TAN FOR 818-00033 WG
25.				
26.	847-00053	3450-US32D	HAGER	LOCK GUARD, 1 5/8" X 10", STAINLESS STEEL
27.	847-12348	–	HAGER	THRESHOLD, 36" ALUMINUM
28.				
29.	186474	FB#186474	FIBREBOND	1/4" X 6" X 30" CELL GROUND BAR COPPER
30.	194343	FB#194343	FIBREBOND	1/4" X 4" X 10" GROUND BAR
31.	849-11351	7939-2GY	ATENCO	MAGNETIC DOOR ALARM
32.	835-00330	M2-5T-12BLR	SIEMONS	ALARM BLOCK, 50 PAIR PRE-WIRED W/ 12 MODULAR JACKS
33.				
34.	839-10767	4" PVC	–	4" SCHEDULE 40 PVC
35.	827-00071/822-10583/822-10160		COOPER	20AMP DUPLEX RECEPTACLE / 4" x 4" J.B.
36.	–	–	–	TELCO BOARD, 813-00067 3/4" X 36" X 80" NUPOLY 813-00067 W/ 814-00024 CAP TRIM
37.	822-10268	A5E6X6X4NK	HOFFMAN	6" x 6" x 4" J.B.
38.	831-00094/831-00093	207 A 232	TEXAS FLOURESCENTS	FIXTURE, INTERIOR LIGHT, 32W, W/A 2 BULB T8 4' WITH LENS
39.	831-00112			FIXTURE, EXTERIOR 180' MOTION ACTIVATED TWIN HEAD FLOODLIGHT NST 18920L
40.	827-00071/822-10583/822-10150		COOPER	20AMP DUPLEX RECEPTACLE / 4" x 4" J.B.
41.	827-00085/822-13709/822-10365		HUBBELL	RECEPTACLE, 20AMP GFCI/RECEPTACLE, COVER/2" x 4" W.P.J.B.
42.	839-10782	1/2" PVC	CARLON	1/2" SCHEDULE 40 PVC CAST @ 45'
43.				
44.				
45.	831-10076/831-00082	–	–	FIXTURE, 4" PORCELAIN W/CHAIN BULB, 50W, 48V DC LIGHT
46.	827-00188/822-10159/822-00102		–	SWITCH 10AMP DC TOGGLE W/ SINGLE SWITCH COVER IN 2X4 JUNCTION BOX
47.	197340	–	–	BAR TINNED COPPER, 1/4"X4"X24", STAMPED STOLEN DO NOT RECYCLE
48.	827-23676	5000GP-C	ALERT	REEL, HARDWIRED 10A 16/3 30'-0"
49.	827-00088/822-10580/822-10150		HUBBELL	SWITCH 20AMP 120V TOGGLE W/ 2 SWITCH COVER IN 4X4 JUNCTION BOX
50.	822-10162		T & B	BOX 4 11/16" DEEP 3/4" & 1" KNOCKOUTS

ITEM LIST

ITEM NO.	FIBREBOND PART NO.	MANUFACTURER PART NO.	MANUFACTURER	DESCRIPTION
51.	833-11718/822-10159	–	–	HUMIDISTAT 20-80 RH W/ 2x4 JUNCTION BOX
52.	822-12810	E989R	CARLON	ENCLOSURE, 12"x12"x6" PVC
53.	846-00070	–	–	CANOPY DOOR 48"(W) X 24"(D) HIGH WIND
54.	847-12747	6720	BEST	DOOR PEEP 210 DEGREE
55.				
56.				
57.				
58.	–	–	–	HIDDEN 18 1/2" X 18 1/2" BLOCKOUT FOR OPTIONAL 24VDC EXHAUST FAN
59.	822-10150			4" X 4" J.B., 20A DUPLEX RECEPT. – INSTALL RECEPT. ONLY UNDER INSTALLED WAVEGUIDE
60.	821-10527			WIREWAY, 4" X 4"
61.	824-22198	D224NRB	SQUARE D	DISCONNECT, FUSIBLE – 200 AMP w/200 AMP FUSES W.P./ HEAVY DUTY
62.				
63.	833-10877	1UHE2	DAYTON	LOW TEMP ALARM
64.				
65.	827-00224/827-11704/822-10288			HVAC SHUTDOWN RELAY 48 VDC 11 PIN MOUNTED IN 6x6x4 J.B.
66.				
67.				
68.				
69.	853-11460			EYEBOLT, 1" X 8" #8500
70.				
71.				
72.				
73.	848-00034/822-23634	099141	ARROW MANUFACTURING	DETECTOR, HYDROGEN 12-48VDC/BOX, 2 GANG SWITCH – 1" 5/8" D
74.	841-23025	–	–	DESK, WALLMOUNT FOLD-UP
75.				
76.	822-21981/822-13401/820-11838		–	BOX, 4" W.P.J.B. W/ 3/4" PLG W/ 3/4" X 1/2" REDUCING BUSHINGS W/ COVER
77.	822-21981/822-13401	–	–	BOX, 4" W.P.J.B. W/ 3/4" PLG W/ COVER
78.	820-00003	MTC6001EC-2-1	MICRIN	GENERATOR INTERFACE PANEL, 200 AMP 120/240 CAM LOC #1
79.	836-00039	MC2075	MICRIN/COMMTECH	CABLE 20' GENERATOR INTERFACE PANEL MONITOR
80.				
81.				
82.	848-24655	CI-355	WATT STOPPER/LEGRAND	SENSOR, PASSIVE INFRARED LINE VOLTAGE CEILING
83.				
84.				
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NOTE:
1. ITEMS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY AND EQUAL SUBSTITUTES WILL BE USED. ELECTRICAL OR MECHANICAL REQUIREMENTS MAY CHANGE DUE TO MANUFACTURES SPECIFICATIONS.

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY

NTA INC.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

PACKING LIST

ITEM NO.	QTY.	FIBREBOND PART NO.	MFG'S. PART NO.	MANUFACTURER	DESCRIPTION
-	1	841-50030	474	–	BRUSH, 1" PAINT
-	25 gal	851-00263	–	–	PAINT, THOROLASTIC FINE MESA TAN (USA – 100%)
-	*	850-00226	MS-30	PRUROFLEX	CAULK, ADHESIVE/SEALANT 10.3 OZ CARTRIDGE – PRARIE TORQUE TAN
-	8	197785	FB#197785	FIBREBOND	PLATE, TIEDOWN – 3/8" X 9" X 12"
-	16	854-12970	20855	–	ANCHOR, SLEEVE – 3/4" X 2 1/2"
	1	841-22303	–	–	DRAFTSMAN CHAIR
	1	841-22313	–	–	HOLDER CLIP
	1	841-22312	–	–	DUST PAN
	1	841-21222	–	–	BROOM
	1	835-14301	SAI-SS-100 100/BG		BRIDGE CLIP 1 BAG OF 100

*VARIES WITH SIZE OF BLDG. SEE SEQUENCE 128

REV.	BY	DATE	REVISION	APP.	DATE	ECN	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

ITEM LIST

DRN. BY: DATE: APP. BY: DATE:
CHK. BY: DATE: APP. BY: DATE:

FIBREBOND

SCALE: NONE SHEET NO: 5

B DWG NO. D-9577

ITEM LIST

ITEM NO.	FIBREBOND PART NO.	MANUFACTURER PART NO.	MANUFACTURER	DESCRIPTION
1.	823-00228	–	INTERSECT	LOADCENTER, 400AMP 120/208 VAC 1PH 3-SOURCE 425° W/ AUTO TRANSFER
2.	833-00037	ASDCA475041	MARVAIR	CONTROLLER ASDCA 48 VDC REMOTE PLC W/04.05 XP ICM
3.	837-00358	ASDCAM48ACA050C-VAR	MARVAIR	AC MARVAIR 4 TON 1PH 5KW W/DC FREE AIR SYSTEM R410A
4.	837-00358	ASDCAM48ACA050C-VAR	MARVAIR	AC MARVAIR 4 TON 1PH 5KW W/DC FREE AIR SYSTEM R410A
5.	833-10877	1UHH2	DAYTON	HIGH TEMP ALARM
6.				
7.	831-00117	–	TECP20784	FIXTURE, LED COMBO EMERGENCY EXIT WITH RED LETTERS WHITE BOX W/LIGHTS ON BOTTOM
8.	822-21981/822-13401	–	–	4" W.P.J.B. W/ 3/4" PLG W/ COVER
9.	831-00094/831-00083	207 A 232	TEXAS FLOURESCENTS	FIXTURE, INTERIOR LIGHT, 32W, W/A 2 BULB T8 4' WITH LENS
10.	827-00088	CSB120	HUBBELL	SWITCH 20AMP 120V SINGLE POLE AC TOGGLE
11.	827-00071/822-10593/822-10150		COOPER	20AMP DUPLEX RECEPTACLE / 4" x 4" J.B.
12.				
13.	848-00027/822-10180	OS0223-48	CPS	SMOKE DETECTOR, -48VDC WITH ALARM/4X4 J-BOX
14.				
15.	818-00033	–	RARGER	WAVEGUIDE ENTRY, 16 PORT, 4"
16.	822-10150	4SDEX	APPLETON	4" x 4" J.B. (1/2" & 3/4" KNOCKOUT)
17.				
18.	846-00139	SWR-S18-4	PREMIER	DOOR, 3070 18 GA GALVANIZED, WITH 161 PREP POLYSTYRENE INSULATION, 1.5 HOUR FIRE RATED FL6378-R3
19.	847-00155	93K-7-D-150-S3-626	STANLEY-BEST	BEST, 9K SERIES DOOR LOCK FL16702.1
20.	847-00001	2203	SARGENT	DOOR CLOSURE, DC
21.	847-00333	1279	HAGER	FIVE KNUCKLE BALL BEARING HINGE FL13778.2
22.	847-12450	160-42	NATIONAL GUARD	DRIP STRIP, 42"
23.	847-12563	15SNA-36	NATIONAL GUARD	DOOR SWEEP, 36"
24.	192797	–	–	COVER PLATE, 25 1/2" X 25 1/2" PAINTED MESA TAN FOR 818-00033 HG
25.				
26.	847-00053	3460-05320	HAGER	LOCK GUARD, 1 5/8" X 10", STAINLESS STEEL
27.	847-12348	–	HAGER	THRESHOLD, 36" ALUMINUM
28.				
29.	195474	FB#195474	FIBREBOND	1/4" X 5" X 30" CELL GROUND BAR COPPER
30.	194343	FB#194343	FIBREBOND	1/4" X 4" X 10" GROUND BAR
31.	848-11351	7036-2CY	ADEMCO	MAGNETIC DOOR ALARM
32.	835-00030	M2-5T-128L9	SIEMONS	ALARM BLOCK, 50 PAIR PRE-WIRED W/ 12 MODULAR JACKS
33.				
34.	839-10757	4" PVC	–	4" SCHEDULE 40 PVC
35.	827-00071/822-10593/822-10150		COOPER	20AMP DUPLEX RECEPTACLE / 4" x 4" J.B.
36.	–	–	–	TELCO BOARD, 813-00067 3/4" X 36" X 90" NUPOLY 813-00067 W/ 814-00024 CAP TRIM
37.	822-10265	ASE6X6X4NK	HOFFMAN	6" x 6" x 4" J.B.
38.	831-00094/831-00083	207 A 232	TEXAS FLOURESCENTS	FIXTURE, INTERIOR LIGHT, 32W, W/A 2 BULB T8 4' WITH LENS
39.	831-00112			FIXTURE, EXTERIOR T8U MOTION ACTIVATED TWIN HEAD FLOODLIGHT NST 18920L
40.	827-00071/822-10503/822-10150		COOPER	20AMP DUPLEX RECEPTACLE / 4" x 4" J.B.
41.	827-00085/822-13765/822-10355		HUBBELL	RECEPTACLE, 20AMP GFCI/RECEPTACLE, COVER/2" x 4" W.P.J.B.
42.	839-10782	1/2" PVC	BARTLET	1/2" SCHEDULE 40 PVC CAST @ 45'
43.				
44.				
45.	831-40076/831-00082	–	–	FIXTURE, 4" PORCELAIN W/CHAIN; BULB, 50W, 48V DC LIGHT
46.	827-00188/822-10156/822-00102		–	SWITCH 10AMP DC TOGGLE W/ SINGLE SWITCH COVER IN 2X4 JUNCTION BOX
47.	197340	–	–	BAR TINNED COPPER, 1/4"X4"X24", STAMPED STOLEN DO NOT RECYCLE
48.	827-23876	5000GP-C	ALERT	REEL, HARDWIRED 1CA 16/3 30'-0"
49.	827-00086/822-10590/822-10150		HUBBELL	SWITCH 20AMP 120V TOGGLE W/ 2 SWITCH COVER IN 4X4 JUNCTION BOX
50.	822-10187		T & B	BOX, 4 11/16" DEEP 3/4" & 1" KNOCKOUTS

ITEM LIST

ITEM NO.	FIBREBOND PART NO.	MANUFACTURER PART NO.	MANUFACTURER	DESCRIPTION
51.	833-11718/822-10159	–	–	HUMIDISTAT 20-80 RH W/ 2x4 JUNCTION BOX
52.	822-12610	E989R	CARLON	ENCLOSURE, 12"x12"x6" PVC
53.	846-00070	–	–	CANOPY DOOR 48"(W) X 24"(D) HIGH WIND
54.	847-12747	B720	BEST	DOOR PEEP 210 DEGREE
55.				
56.				
57.				
58.	–	–	–	HIDDEN 16 1/2" X 16 1/2" BLOCKOUT FOR OPTIONAL 24VDC EXHAUST FAN
59.	822-10150			4" X 4" J.B., 20A DUPLEX RECEPT. – INSTALL RECEPT. ONLY UNDER INSTALLED WAVEGUIDE
60.	821-10527			WIREWAY, 4" X 4"
61.	824-21742	–	–	DISCONNECT, SQUARE D 400A 600V FUSE
62.				
63.	833-10877	1UHH2	DAYTON	LOW TEMP ALARM
64.				
65.	827-00224/827-11704/822-10266			HVAC SHUTDOWN RELAY 48 VDC 11 PIN MOUNTED IN 6x6x4 J.B.
66.				
67.				
68.				
69.	853-11460			EYEBOLT, 1" X 8" #8500
70.				
71.				
72.				
73.	848-00034/822-23634	099141	ARRGH MANUFACTURING	DETECTOR, HYDROGEN 12-48VDC/BOX, 2 GANG SWITCH – 1" 5/8" D
74.	841-23025	–	–	DESK, WALLMOUNT FOLD-UP
75.				
76.	822-21581/822-13401/820-11838		–	BOX, 4" W.P.J.B. W/ 3/4" PLG W/ 3/4" X 1/2" REDUCING BUSHINGS W/ COVER
77.	822-21981/822-13401	–	–	BOX, 4" W.P.J.B. W/ 3/4" PLG W/ COVER
78.	826-00021	MTCG001ECK-2	MICRIN	GENERATOR INTERFACE PANEL, 400 AMP 120/240 CAM LOC #1
79.	836-00039	MC2076	MICRIN/COMMTECH	CABLE 20' GENERATOR INTERFACE PANEL MONITOR
80.				
81.				
82.	848-24535	CI-355	WATT STOPPER/LEGRAND	SENSOR, PASSIVE INFRARED LINE VOLTAGE CEILING
83.				
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100.				

PACKING LIST

ITEM NO.	QTY.	FIBREBOND PART NO.	MFG'S PART NO.	MANUFACTURER	DESCRIPTION
-	1	841-50030	474	–	BRUSH, 1" PAINT
-	.25 gal	851-00253	–	–	PAINT, THOROLASTIC FINE MESA TAN (USA – 100%)
-	*	850-00276	NS-30	PRUROFLEX	CAULK, ADHESIVE/SEALANT 10.3 OZ CARTRIDGE – PRAIRIE TORQUE TAN
-	8	197788	FB#197788	FIBREBOND	PLATE, TIEDOWN – 3/8" X 8" X 12"
-	16	854-12970	20655	–	ANCHOR, SLEEVE – 3/4" X 2 1/2"
	1	841-22303	–	–	DRAFTSMAN CHAIR
	1	841-22313	–	–	HOLDER CUP
	1	841-22312	–	–	DUST PAN
	1	841-21222	–	–	BROOM
	1	833-14301	SAI-SS-100 100/BG		BRIDGE CLIP 1 BAG OF 100

*VARIES WITH SIZE OF BLDG., SEE SEQUENCE 120

NOTE:
1. ITEMS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY AND EQUAL SUBSTITUTES WILL BE USED. ELECTRICAL OR MECHANICAL REQUIREMENTS MAY CHANGE DUE TO MANUFACTURES SPECIFICATIONS.

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY

NTA INC.

Const. Type: VB
Occupancy: S2
Allowable No. of Floors: 1
Wind Velocity: 190 exp c
Fire Rating of Ext. Walls: 0
Plan No.: MFT27-D-9577
Allow. Floor Load: 250 PSF
Approval Date: 1/16/2014
Manufacturer: Fibrebond

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

REV.	BY	DATE	REVISION	APP	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

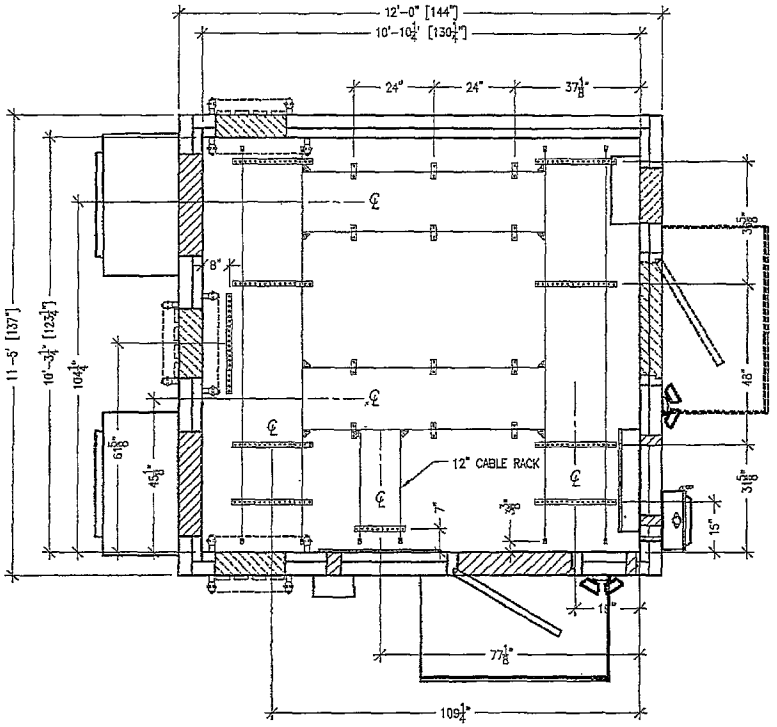
ITEM LIST

DRN. BY: DATE: APP. BY: DATE:
CHK. BY: DATE: APP. BY: DATE:

FIBREBOND

SCALE: NONE SHEET NO.: 5.1

B DWG NO.: D-9577



CEILING VIEW

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

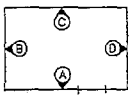
Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	150 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MF127-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

REFERENCE DRAWINGS REQUIRED TO COMPLETE THIS SHEET

DRAWING NO.	DESCRIPTION
MECH-0005	CABLE RACK W/ MOUNTING DETAILS

DEC 2 5 2013

NOTE:
1. ALL DIMENSION ARE ACCURATE ±1/4"
2. CABLE TRAY SHALL BE 94 1/2" A.F.F
3. USE 18" CABLE RACK U.N.O.



ELEVATION KEY

REV.	BY	DATE	REVISION	APP	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

CABLE RACK CEILING VIEW

FIBREBOND

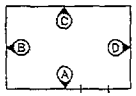
DRN. BY:	DATE:	APP. BY:	DATE:
CHK BY:	DATE:	APP. BY:	DATE:

SCALE: 3/8"=1'-0" SHEET NO: 6

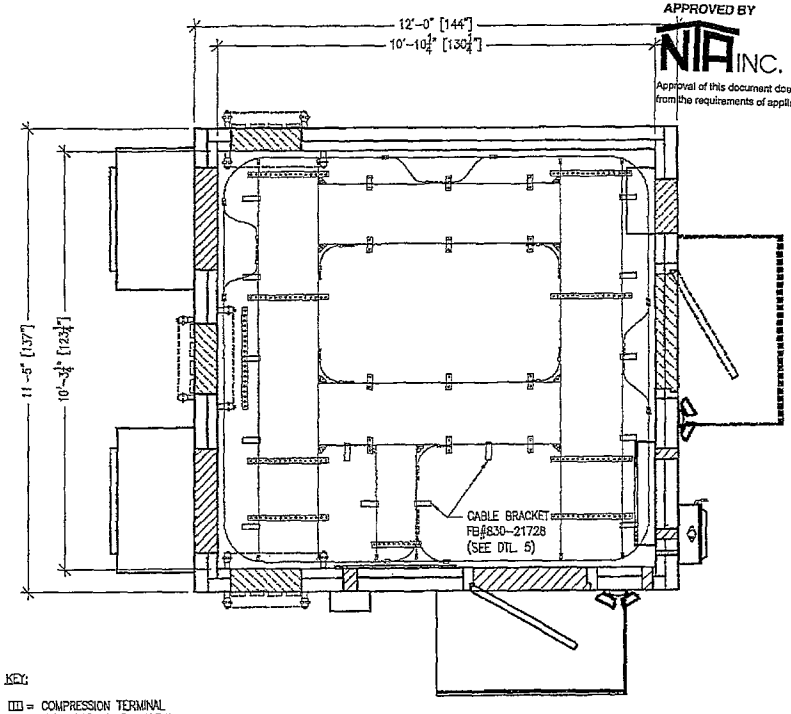
B DWG NO: D-9577

NOTES:

1. HALO GROUND TO BE #2 GREEN INSULATED STRANDED COPPER WIRE.
2. VERTICAL DROPS TO BE #2 SOLID TINNED COPPER WIRE. PULL TO FLOOR AND COIL ADDITIONAL 10'-0"
3. ALL BENDS MIN. 8" RADIUS.
4. APPLY ANTI-OXIDATION COMPOUND TO ALL CONNECTIONS.
5. 1/2" PVC PIPE SCH. 40. DRILL AT 45° ANGLE.
6. MOUNT EXTERIOR AND INTERIOR GROUND BAR BENEATH COAX ENTRY
7. GROUND CABLE TRAY AS SHOWN WITH #6 STRANDED GREEN COPPER CONDUCTOR AND 2-HOLE LUG.
8. GROUNDING OF CONDUIT TO HALO SHOULD NOT EXCEED 3 CONDUITS PER CONNECTION.
9. CONNECT CABLE RACK TO HALO GROUND WITH #2 AWG GREEN CONDUCTOR AND 2-HOLE LUG.
10. CONNECT #2 AWG GREEN TO GROUND BAR IN ITEM (1) AND CONNECT TO CELL REF GROUND BAR (29).
11. CONNECT TELCO GROUND BAR TO CELL REF GRND BAR (29). WITH #2 AWG GREEN.
12. USE DOUBLE CRIMP C-TAPS FOR ALL CONNECTIONS TO HALO GROUND. USE (2) H-TAP CONNECTOR FOR ALL SOLID TO SOLID WIRE CONNECTIONS.
13. MOUNT T1 ARRESTORS (55) TO TELCO BOARD DIRECTLY ABOVE TELCO GROUND BAR (30). USE #6 STRANDED GREEN COPPER CONDUCTOR & 2-HOLE LUG, STRAIGHT RUNS.
14. ALL GROUND CONNECTIONS TO THE HALO TO BE NON-DIRECTIONAL.
15. CONDUCTORS TO BE INSTALLED AFTER WAVEGUIDE ENTRY HAS BEEN INSTALLED. RUN CONDUCTORS ON CABLE BRACKETS. SEE DETAIL SHEET.
16. EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN & DESTINATION. TAGS WILL BE INSTALLED AT THE INSTALL CENTER OR AT FINAL PUNCH.
17. EACH GROUND BAR TO BE LABELED.
18. INSTALL GROUND BAR UNDER INSTALLED WAVEGUIDE. ALL GROUNDING SHALL BE TYPICAL OF LOCATION SHOWN.
19. BOND ALL BOXES LARGER THAN 4 11/16" X 4 11/16" TO THE HALO GROUND. (WALLS ONLY)
20. BOND ALL METAL OBJECTS, INCLUDING CABLE TRAY TO THE BARE TINNED SOLID #2 CORNER DOWN LEADS AS IT PASSES WITH 6" OF THE ITEM.
21. ALL GROUNDING CONDUCTORS SHALL BE KEPT AS SHORT AS POSSIBLE. THE SHORTEST PRACTICAL ROUTE SHALL BE CHOSEN WITH THE LEAST AMOUNT OF BENDS AND SPLICES. USE THIS RULE AT ALL TIMES, EVEN IF ELEVATION PLAN SHOWS OTHERWISE. PLANS ARE SOMETIMES CLUTTERED AND UNCLEAR DUE TO LARGE AMOUNTS OF GROUNDING. BONDING JUMPERS CAN BE MOVED/SLID FROM ONE SIDE OF THE OBJECT TO THE OTHER UNDER THE GUIDANCE OF A SENIOR CREW LEADER AND/OR SUPERVISOR.
22. USE ALL STAINLESS STEEL HARDWARE FOR CONNECTIONS OF GROUND LUGS TO GROUND BARS.
23. USE ONLY CLEAR HEAT SHRINK. SEE GROUND LUG DETAIL ON HALO GROUND DETAILS SHEET
24. SEE HALO GROUND DETAILS SHEET FOR DETAILS.
25. DOUBLE STACKING OF LUGS SHALL NOT BE USED.
26. DO NOT GROUND MORE THAN ONE PIECE OF EQUIPMENT WITH A SINGLE GROUND DROP
27. REMOVE ALL PAINT BENEATH THE SURFACE OF GROUND LUGS.



ELEVATION KEY



KEY:

= COMPRESSION TERMINAL
= HALO GROUND SUPPORTS MOUNTED 1'-6" [18"] C/C MAX

CEILING VIEW

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.:	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

DEC 23 2013
FRANK J. RALEY
LICENSE
No. 57013
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REV.	BY	DATE	REVISION	APP	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

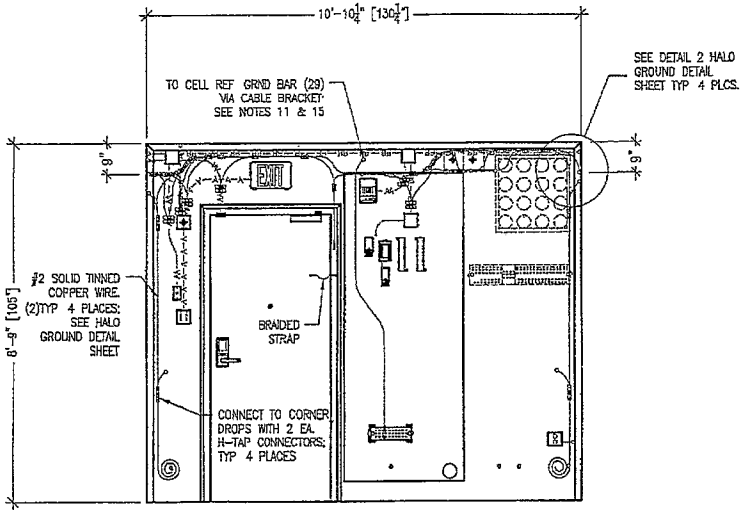
HALO GROUND CEILING VIEW

FIBREBOND

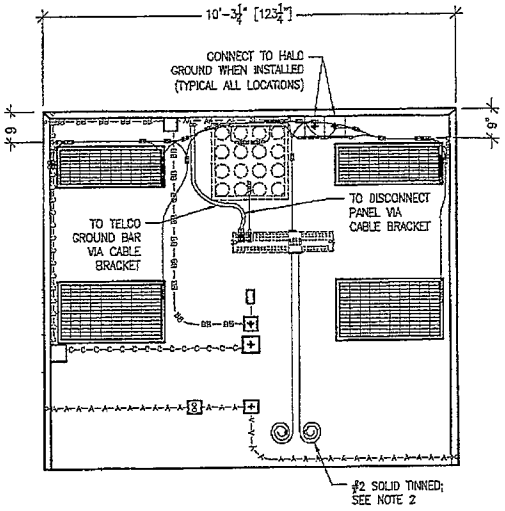
DWN BY:	DATE:	APP. BY:	DATE:
CHK BY:	DATE:	APP. BY:	DATE:

SCALE: 3/8"=1'-0" SHEET NO.: 7-1

DWG NO.: B D-9577



ELEVATION "A"



ELEVATION "B"

NOTES:
SEE HALO GROUND CEILING VIEW SHEET FOR NOTES.
SEE HALO GROUND DETAILS SHEET FOR DETAILS.

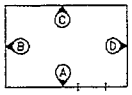
These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MET27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

DEC 23 2013
FRANK J. RALEY
LICENSED
No. 67820
STATE OF FLORIDA
PROFESSIONAL ENGINEER



ELEVATION KEY

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2814 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

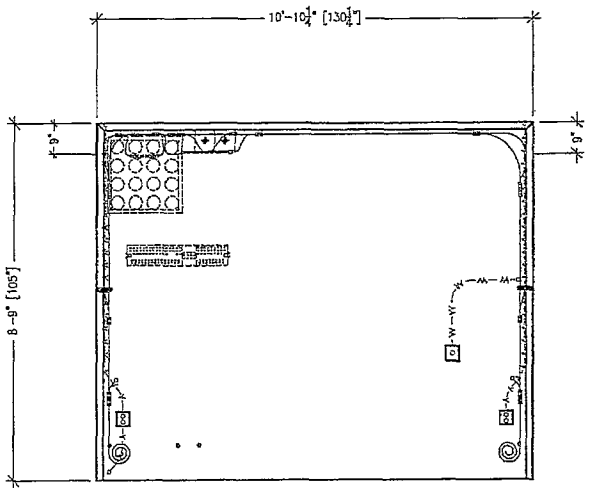
HALO GROUND ELEVATIONS "A" & "B"

FIBREBOND

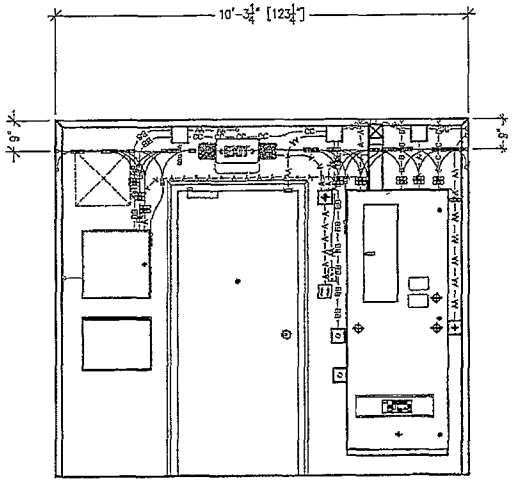
DSN. BY:	DATE:	APP. BY:	DATE:
DSN. BY:	DATE:	APP. BY:	DATE:

SCALE: 3/8"=1'-0" SHEET NO: 7-2

B DWG NO: D-9577



ELEVATION "C"



ELEVATION "D"

NOTES:
SEE HALO GROUND CEILING VIEW SHEET FOR NOTES.
SEE HALO GROUND DETAILS SHEET FOR DETAILS.

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

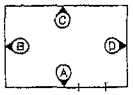
APPROVED BY

NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-0-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

DEC. 23 2013
FRANK J. RALEY
LICENSED
No. 67533
STATE OF FLORIDA
PROFESSIONAL ENGINEER



ELEVATION KEY

REV	BY	DATE	REVISION	APP	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

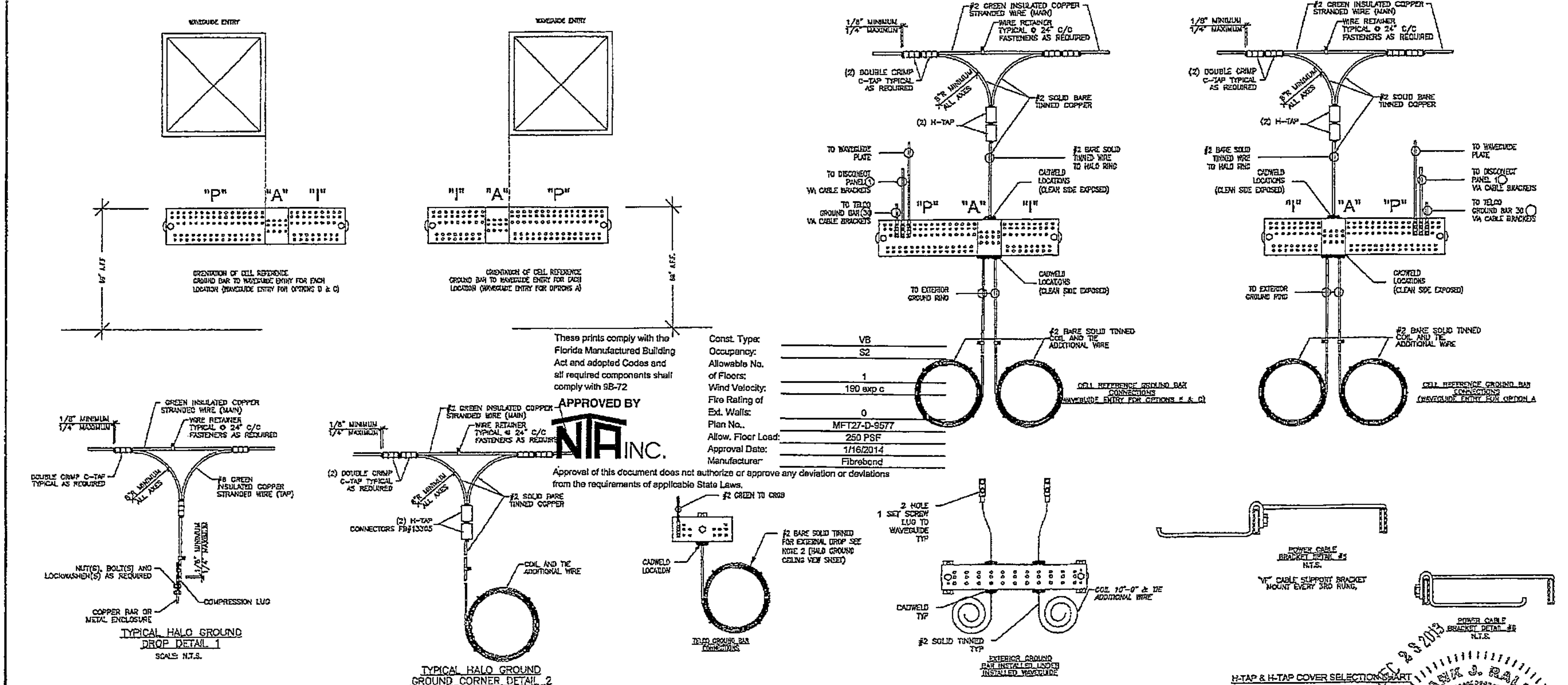
HALO GROUND ELEVATIONS "C" & "D"

DRN. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

FIBREBOND

SCALE: 3/8"=1'-0" SHEET NO.: 7-3

DWG NO.: B D-9577

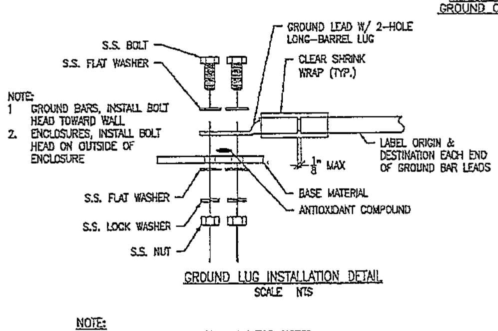


These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY
NTA INC.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	180 exp c
Fire Rating of Ext. Walls:	0
Plan No.:	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.



NOTE:
1. GROUND BARS, INSTALL BOLT HEAD TOWARD WALL
2. ENCLOSURES, INSTALL BOLT HEAD ON OUTSIDE OF ENCLOSURE

GROUND LUG INSTALLATION DETAIL
SCALE NTS

NOTE:
SEE HALO GROUND CEILING VIEW FOR NOTES

GROUNDING LUG CHART			
FB #	WIRE SIZE	HOLES	HOLE SPACING
830-12623	#2	(2) 5/16"ø	5/8"
830-21360	#4	(2) 5/16"ø	5/8"
830-21023	#6	(2) 5/16"ø	5/8"
830-21024	#2	(2) 7/16"ø	1"
830-17703	#4	(2) 7/16"ø	1"
830-22172	#6	(2) 7/16"ø	1"
830-20828	2/0	(2) 7/16"ø	1"

H-TAP & H-TAP COVER SELECTION CHART

H-TAP		H-TAP COVER		CONDUCTOR SIZES CODE WIRE (FLEX CABLE)			
FIBREBOND Part No.	MANUFACTURER Part No.	FIBREBOND Part No.	MANUFACTURER Part No.	MAIN	TAP 1	TAP 2	TAP 3
830-13305	HTCT2-2-1	830-13306	CLRCVR2-1	2-8 STRNDC (2-8)	2-8 STRNDL (2-8)	[illegible] (8-14)	[illegible]
830-13304	HTCT250-2-1	830-13303	CLRCVR3-1	250-2 (4/0-2)	[illegible] (2-8)	[illegible]	[illegible]
830-13310	HTCT250-250-1	830-13310	CLRCVR4-1	250-2 (4/0-2)	250-2 STRNDL [illegible]	[illegible]	[illegible]

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

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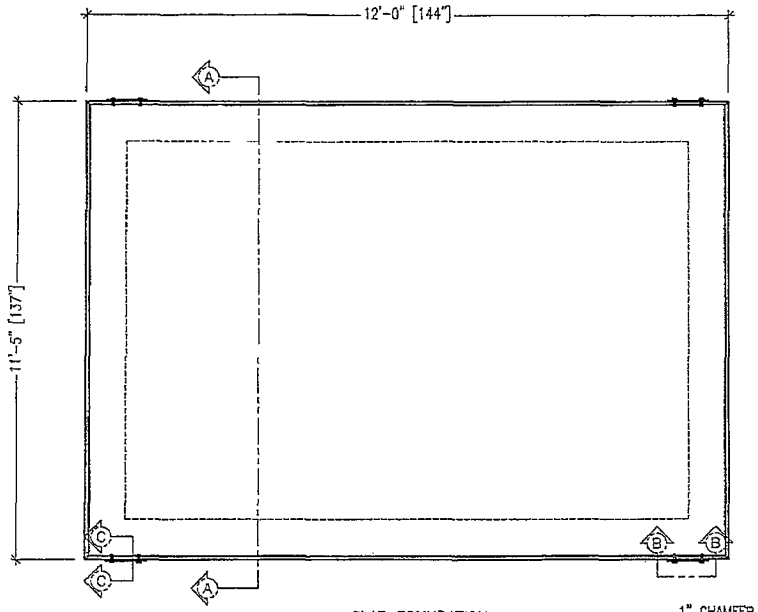
AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

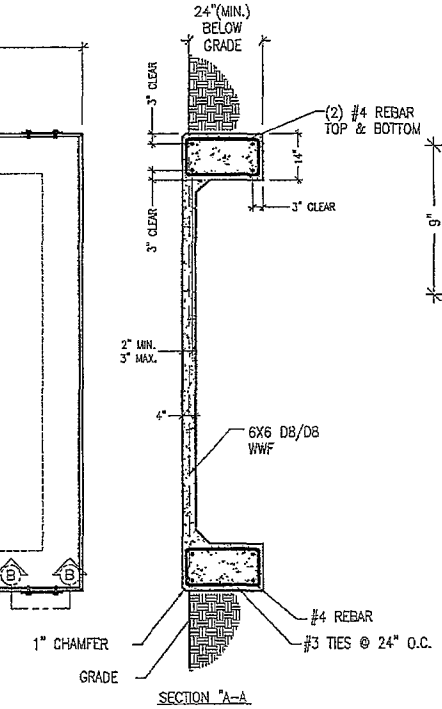
HALO GROUND DETAILS

FIBREBOND

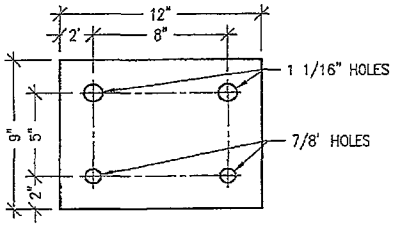
SCALE: NONE
SHEET NO. 7-4
B DWG NO. D-9577



SLAB FOUNDATION
SCALE. 3/8"=1'-0"



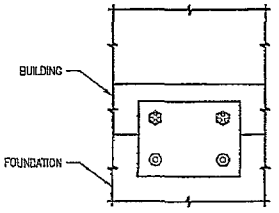
SECTION "A-A"



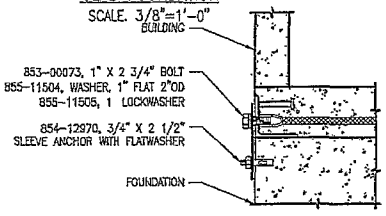
197786 TIE DOWN PLATE
RAW MATERIAL 3/8" PLATE
N.T.S.

PER LOCAL DESIGN
APPROVAL AND INSPECTION

NOTES:
1. SLAB TO BE LEVEL ±1/4"
2. FOOTING TO EXTEND A MINIMUM OF 36" BELOW UNDISTURBED SOIL AND FROST LINE.
3. FINAL SITE DESIGN IS THE RESPONSIBILITY OF THE SITE CONTRACTOR.
4. SLAB FOUNDATION DESIGNED ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF
5. SLAB FOUNDATION DESIGNED ASSUMING MAXIMUM SOIL PLASTICITY INDEX OF 27
6. CONCRETE STRENGTH SHALL BE A MINIMUM OF 3000 PSI.



SECTION "B-B"
N.T.S.



SECTION "C-C"
N.T.S.

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 98-72

APPROVED BY
NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

DEC 2 8 2015
FRANK J. RALEY
LICENSE
No. 57269
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2614 www.fibrebond.com

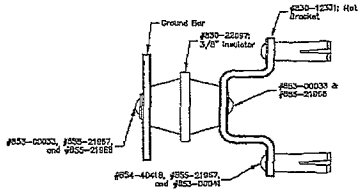
AT&T MOBILITY
11'-5" X 12'-0" EQUIPMENT SHELTER
FOUNDATION PLAN

DRW. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

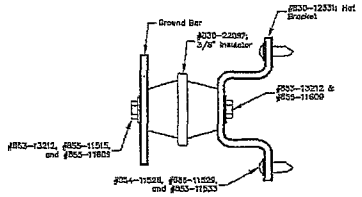
FIBREBOND

SCALE: NOTED | SHEET NO: 8

B | DRW. NO: D-9577



Exterior



Interior

GROUND BAR MOUNTING PROCEDURES

General Notes:

1. For Waveguides, Door Canopy, and Exterior Vent Hood installations, use 1/4 x 1 5/8" Hilti HPS Impact anchors, #854-22496
2. HVAC mounting, use 5/16" x 1 1/2" sleeve anchors, #854-11135.
3. All interior boxes, panels, straps, etc. shall use #853-10848 screws. Large boxes and lights need to have washer #855-11513 with screw
4. For exterior boxes, use #854-11528, #855-11529, and #853-11533 for anchors.
5. On furred walls using hat channel, sheetrock and FRP shall be fastened at perimeter at 12" o.c. using screws. On furred walls using THERMASHEATH insulation attach 3/8" Nupoly to wall over THERMASHEATH insulation with 3/16"x3 1/4" PNF tapcons #854-12917 Use Chemrex #850-11235 glue on 3/8" Nupoly.
6. On Concrete walls, mount sheetrock 16" o.c using 3/16"x1 1/2" HPS anchors, #854-15111 Mount FRP over sheetrock using 1 1/2" coil nails, #854-11841 12" o.c. for Light Weight Bldgs For C2 Bldgs, use 1/4"x2 1/16" HPS anchors, #854-11501

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with SB-72

APPROVED BY NTA INC.

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Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	180 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

DEC 2 2013 FRANK J. RALEY LICENSE No. 57220 STATE OF FLORIDA PROFESSIONAL ENGINEER

REV.	BY	DATE	REVISION	APP.	DATE	BOM	DATE

1300 DAVENPORT DRIVE MINDEN, LA 71055
ph. (800) 824-2614 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

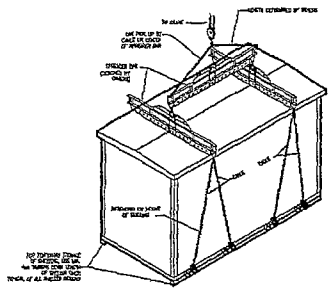
MISC. DETAILS & NOTES

DRN. BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

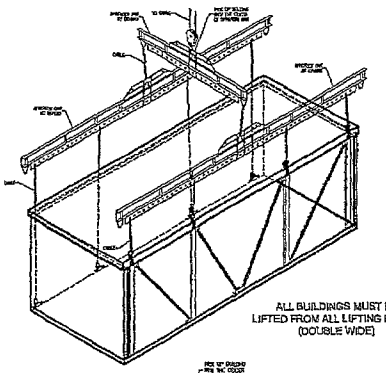
FIBREBOND

ISSUE: NONE | SHEET NO.: 9-1

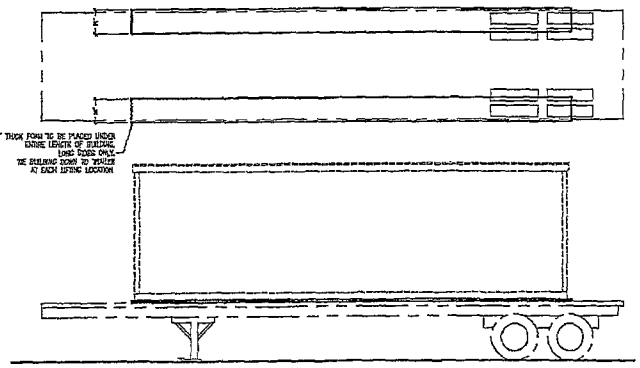
B | DWG NO.: D-9577

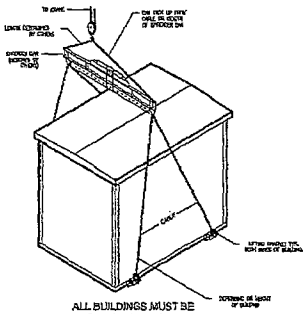


ALL BUILDINGS MUST BE
LIFTED FROM ALL LIFTING POINTS

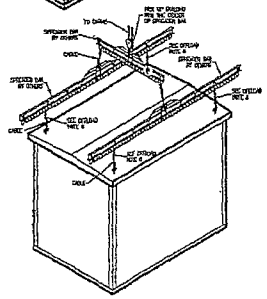


ALL BUILDINGS MUST BE
LIFTED FROM ALL LIFTING POINTS
(DOUBLE WIDE)





ALL BUILDINGS MUST BE
LIFTED FROM ALL LIFTING POINTS



ALL BUILDINGS MUST BE
LIFTED FROM ALL LIFTING POINTS
(ROOF LIFT)

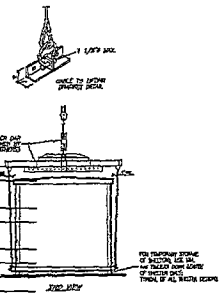
These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 98-72

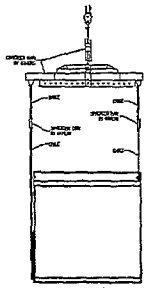
APPROVED BY

NTA INC.

Approval of this document does not authorize or approve any deviation or deviations from the requirements of applicable State Laws.

Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	190 exp c
Fire Rating of Ext. Walls:	0
Plan No.	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond





ALL BUILDINGS MUST BE
LIFTED FROM ALL LIFTING POINTS

SINGLE BUILDING SET UP PROCEDURE:

1. INSPECT BUILDING UPON DELIVERY FOR DAMAGE DURING TRANSPORTATION.
2. REMOVE LIFTING BRACKETS FROM SHELTER.
3. CAULK AND GROUT BUILDING.
4. ATTACH TIE DOWN BRACKETS TO SHELTER AND FOUNDATION USING ANCHOR BOLTS.
5. INSTALL AND CAULK ALL ACCESSORIES (EXTERIOR LIGHT, CANOPY, ICE SHIELD, VENT HOODS, GROUND BARS, ETC.)
6. INSPECT ROOF AND ROOF EDGE FOR DAMAGE CAUSED BY OFFLOAD AND REPAIR IF NEEDED.
7. CLEAN INTERIOR AND COMPLETE ANY TOUCH UP PAINTING AS NEEDED.
8. CHECK DOOR ALARM FOR PROPER OPERATION.
9. CHECK LIGHTING AND AIR CONDITIONING FOR PROPER OPERATION.
10. INSPECT COMPLETE BUILDING FOR COSMETICS.

MULTI-WIDE BUILDING SET UP PROCEDURE:

1. INSPECT BUILDING UPON DELIVERY FOR DAMAGE DURING TRANSPORTATION.
2. REMOVE LIFTING BRACKETS FROM SHELTER.
3. ATTACH TIE DOWN BRACKETS TO SHELTER AND FOUNDATION USING ANCHOR BOLTS.
4. INSTALL AND CAULK ALL ACCESSORIES (EXTERIOR LIGHT CANOPY, ICE SHIELD, VENT HOODS, GROUND BARS, ETC.).
5. INSPECT ROOF AND ROOF EDGE FOR DAMAGE CAUSED BY OFFLOAD AND REPAIR IF NEEDED.
6. INSTALL BACKER ROD AND CAULK EXTERIOR WALLS AND ROOF.
7. INSTALL FLASHING ON ALL INTERIOR MOD. LINES.
8. MAKE ALL CONDUIT AND CABLE TRAY CROSSOVERS.
9. CLEAN INTERIOR AND COMPLETE ANY TOUCH UP PAINTING AS NEEDED.
10. CHECK DOOR ALARM FOR PROPER OPERATION.
11. CHECK LIGHTING AND AIR CONDITIONING FOR PROPER OPERATION.
12. INSPECT COMPLETE BUILDING FOR COSMETICS.

OFFLOAD NOTES:

1. BUILDING SHALL BE OFFLOADED LEVEL.
2. ALL CABLES, SHACKLING, SPREADER BARS, ETC. SHALL BE DESIGNED AND SUPPLIED BY OTHERS.
3. ALL LIFTING POINTS SHALL BE USED.
4. 1 1/8" MAXIMUM DIAMETER FOR SHACKLES.
5. REMOVE BRACKET AFTER PLACEMENT OF SHELTER AND INSTALL ANCHOR TIE-DOWN PLATES (SHIPPED LOOSE INSIDE SHELTER) AT EACH LOCATION.
6. OFFLOAD BUILDING WITH CABLES IN VERTICAL POSITION. ANGLED POSITION CABLES ARE NOT ACCEPTIBLE.

PER LOCAL DIVISION
APPROVAL AND INSPECTION

DEC 23 2015
FRANK J. RALEY
LICENSE
No. 57023
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REV	BY	DATE	REVISION	APP.	DATE	BDM	DATE

1800 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 824-2814 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

LIFTING, STORAGE, AND TRANSPORTATION DIAGRAM

FIBREBOND

DRAWN BY:	DATE:	APP. BY:	DATE:
CHK. BY:	DATE:	APP. BY:	DATE:

SCALE: NONE | SHEET NO.: 9-2

B | DWG NO.: D-9577

These prints comply with the Florida Manufactured Building Act and adopted Codes and all required components shall comply with 9B-72

APPROVED BY

NTA INC.

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Const. Type:	VB
Occupancy:	S2
Allowable No. of Floors:	1
Wind Velocity:	180 exp c
Fire Rating of Ext. Walls:	0
Plan No.:	MFT27-D-9577
Allow. Floor Load:	250 PSF
Approval Date:	1/16/2014
Manufacturer:	Fibrebond

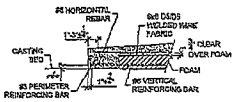
REBAR CUT LIST		
ITEM	QTY	LENGTH
3.1	2	139"
3.2	2	146"
6.1	3	139"
6.2	2	146"
6.3	4	135"

FOAM CUT LIST			
ITEM	QTY	LENGTH	WIDTH
1.1	4	123"	18"
1.2	1	119"	18"
1.3	1	123"	10"
4.1	4	3"	3"

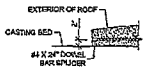
ALL FOAM CORNERS TO BE CHAMFERED 6" AS SHOWN

ITEM NO.	PART NO.	QTY.	DESCRIPTION	DWG. NO.
1	809-00001	–	130" X 18" X 4" EPS FOAM INSULATION	–
2	810-11450	4	REBAR BEND, #3 X 24" 90°	–
3	810-11442	47.5'	REBAR, #3 (3/8") GRADE 60	–
4	–	–	6" EPS FOAM INSULATION	–
5	–	–	–	–
6	810-11443	104.1	REBAR, #6 (3/4") GRADE 60	–
7	–	26	POCKET FORMER	–
8	806-40448	8	SPLICER, #4 X 24" DOWEL BAR	–
9	810-11400	1.0	11'-6"x20'-0" D5-D5	–

3" X 6" BLOCKOUT FOR REBAR BONDING; 4 PLACES–SEE NOTE 3 & CASTING DETAIL. USE SCRAP PIECES OF FOAM



ROOF SECTION "B-B"
NOT TO SCALE



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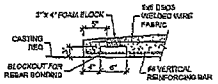
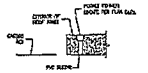
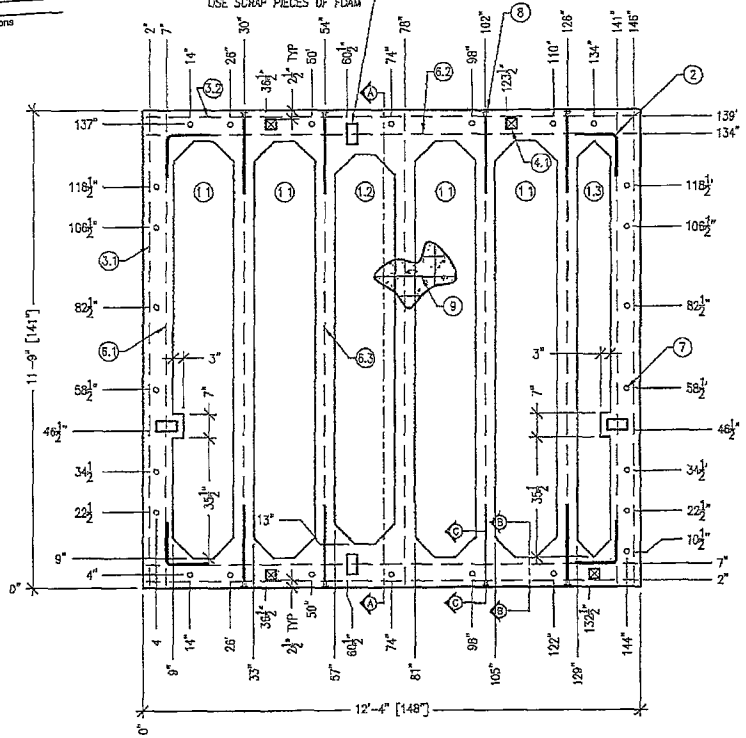
NOT TO SCALE



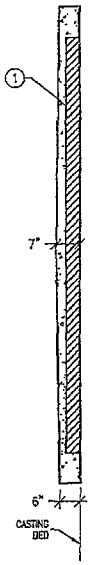
CASTING DETAIL
NOT TO SCALE



ROOF POCKET FORMER DETAIL
NOT TO SCALE



ROOF
144.9 sq. ft.



SECTION "A–A"

* CAUTION ROOF LIFT BUILDING ONLY *

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LICENSE
No. 57520
STATE OF
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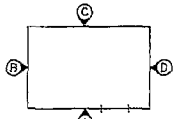
PROFESSIONAL ENGINEER



ELEVATION KEY

NOTES:
1. ALL REBAR GRADE 60 TYPICAL, SEE MISC. DETAIL SHEET FOR REBAR SIZE & SPLICE LENGTHS.
2. DIAGONAL DIMENSION–204 7/16"
3. ALL REBAR TO BE TIED AT EACH CROSS OVER.

REV.	BY	DATE	REVISION	APP.	DATE	BDM	DATE

1300 DAVENPORT DRIVE MINDEN, LA. 71055
ph. (800) 624-2514 www.fibrebond.com

AT&T MOBILITY

11'-5" X 12'-0" EQUIPMENT SHELTER

STRUCTURAL LAYOUT
ROOF

FIBREBOND

DSN. BY:	DATE:	APP. BY:	DATE:
DWN. BY:	DATE:	APP. BY:	DATE:

SCALE: 3/8"=1'-0" | SHEET NO.: S1

B | DWG NO.: D-9577