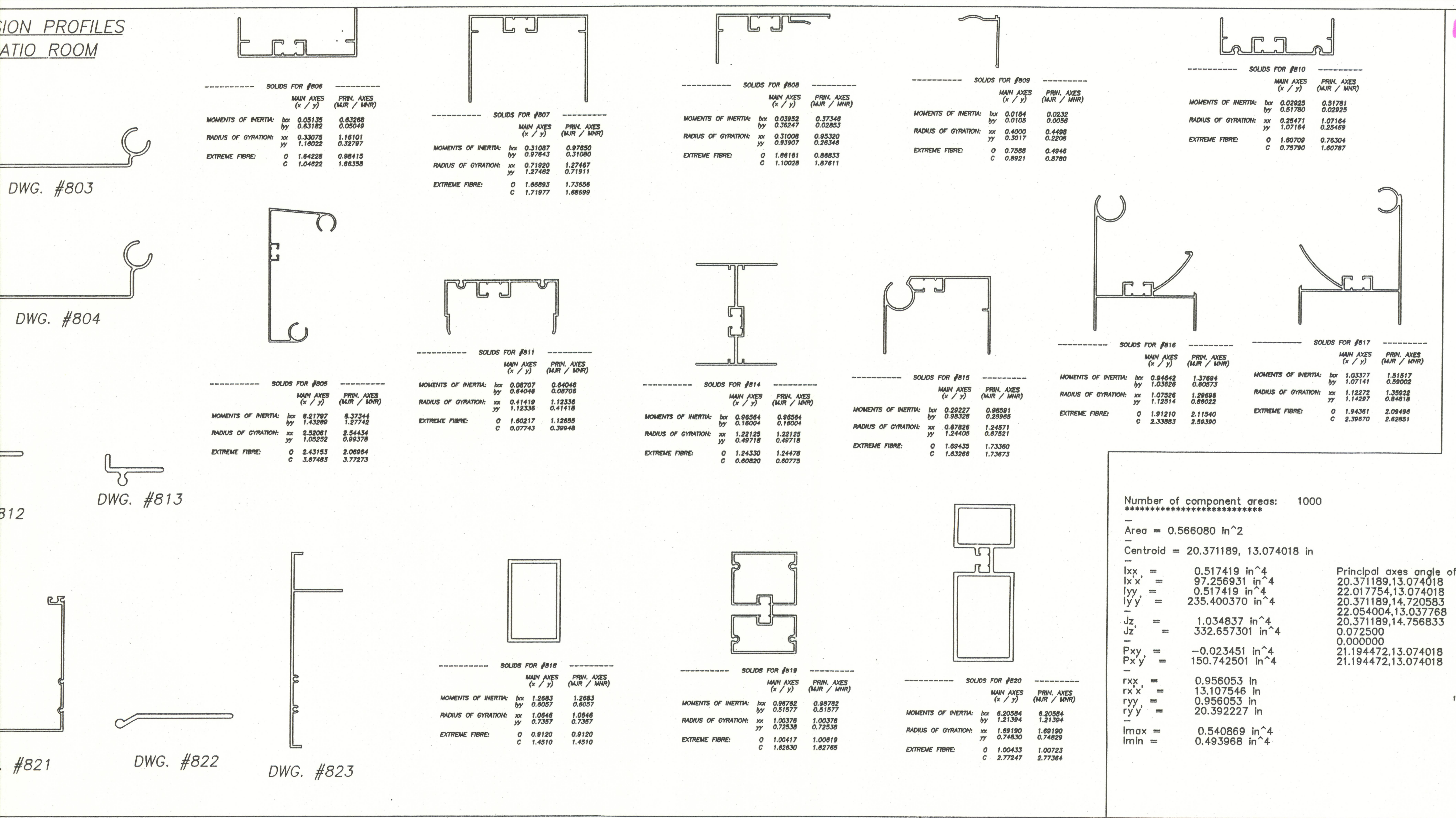
ION PROFILES
ATIO ROOM


DWG. #803
DWG. #804
DWG. #813
812
#821
DWG. #822
DWG. #823

SOLIDS FOR #806

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.05135	0.63268
	Iyy	0.63182	0.05049
RADIUS OF GYRATION:	xx	0.33075	1.16101
	yy	1.16022	0.32797
EXTREME FIBRE:	O	1.64228	0.98415
	C	1.04622	1.66358

SOLIDS FOR #807

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.31087	0.97650
	Iyy	0.97643	0.31080
RADIUS OF GYRATION:	xx	0.71920	1.27467
	yy	1.27462	0.71911
EXTREME FIBRE:	O	1.66893	1.73656
	C	1.71977	1.68699

SOLIDS FOR #808

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.03952	0.37346
	Iyy	0.36247	0.02853
RADIUS OF GYRATION:	xx	0.31008	0.95320
	yy	0.93907	0.26346
EXTREME FIBRE:	O	1.66161	0.86833
	C	1.10028	1.87611

SOLIDS FOR #809

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.0184	0.0232
	Iyy	0.0105	0.0056
RADIUS OF GYRATION:	xx	0.4000	0.4498
	yy	0.3017	0.2208
EXTREME FIBRE:	O	0.7588	0.4946
	C	0.8921	0.8780

SOLIDS FOR #810

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.02925	0.51781
	Iyy	0.51780	0.02925
RADIUS OF GYRATION:	xx	0.25471	1.07164
	yy	1.07164	0.25469
EXTREME FIBRE:	O	1.60709	0.76304
	C	0.75790	1.60787

SOLIDS FOR #805

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	8.21797	8.37344
	Iyy	1.43289	1.27742
RADIUS OF GYRATION:	xx	2.52061	2.54434
	yy	1.05252	0.99378
EXTREME FIBRE:	O	2.43153	2.06964
	C	3.67483	3.77273

SOLIDS FOR #811

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.08707	0.64046
	Iyy	0.64046	0.08706
RADIUS OF GYRATION:	xx	0.41419	1.12336
	yy	1.12336	0.41418
EXTREME FIBRE:	O	1.60217	1.12655
	C	0.07743	0.39948

SOLIDS FOR #814

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.96564	0.96564
	Iyy	0.16004	0.16004
RADIUS OF GYRATION:	xx	1.22125	1.22125
	yy	0.49718	0.49718
EXTREME FIBRE:	O	1.24330	1.24478
	C	0.60820	0.60775

SOLIDS FOR #815

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.29227	0.98591
	Iyy	0.98328	0.28965
RADIUS OF GYRATION:	xx	0.67826	1.24571
	yy	1.24405	0.67521
EXTREME FIBRE:	O	1.69435	1.73360
	C	1.63266	1.73673

SOLIDS FOR #816

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.94642	1.37694
	Iyy	1.03626	0.60573
RADIUS OF GYRATION:	xx	1.07526	1.29696
	yy	1.12514	0.86022
EXTREME FIBRE:	O	1.91210	2.11540
	C	2.33883	2.59390

SOLIDS FOR #817

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	1.03377	1.51517
	Iyy	1.07141	0.59002
RADIUS OF GYRATION:	xx	1.12272	1.35922
	yy	1.14297	0.84818
EXTREME FIBRE:	O	1.94361	2.09496
	C	2.39670	2.62851

SOLIDS FOR #818

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	1.2683	1.2683
	Iyy	0.6057	0.6057
RADIUS OF GYRATION:	xx	1.0646	1.0646
	yy	0.7357	0.7357
EXTREME FIBRE:	O	0.9120	0.9120
	C	1.4510	1.4510

SOLIDS FOR #819

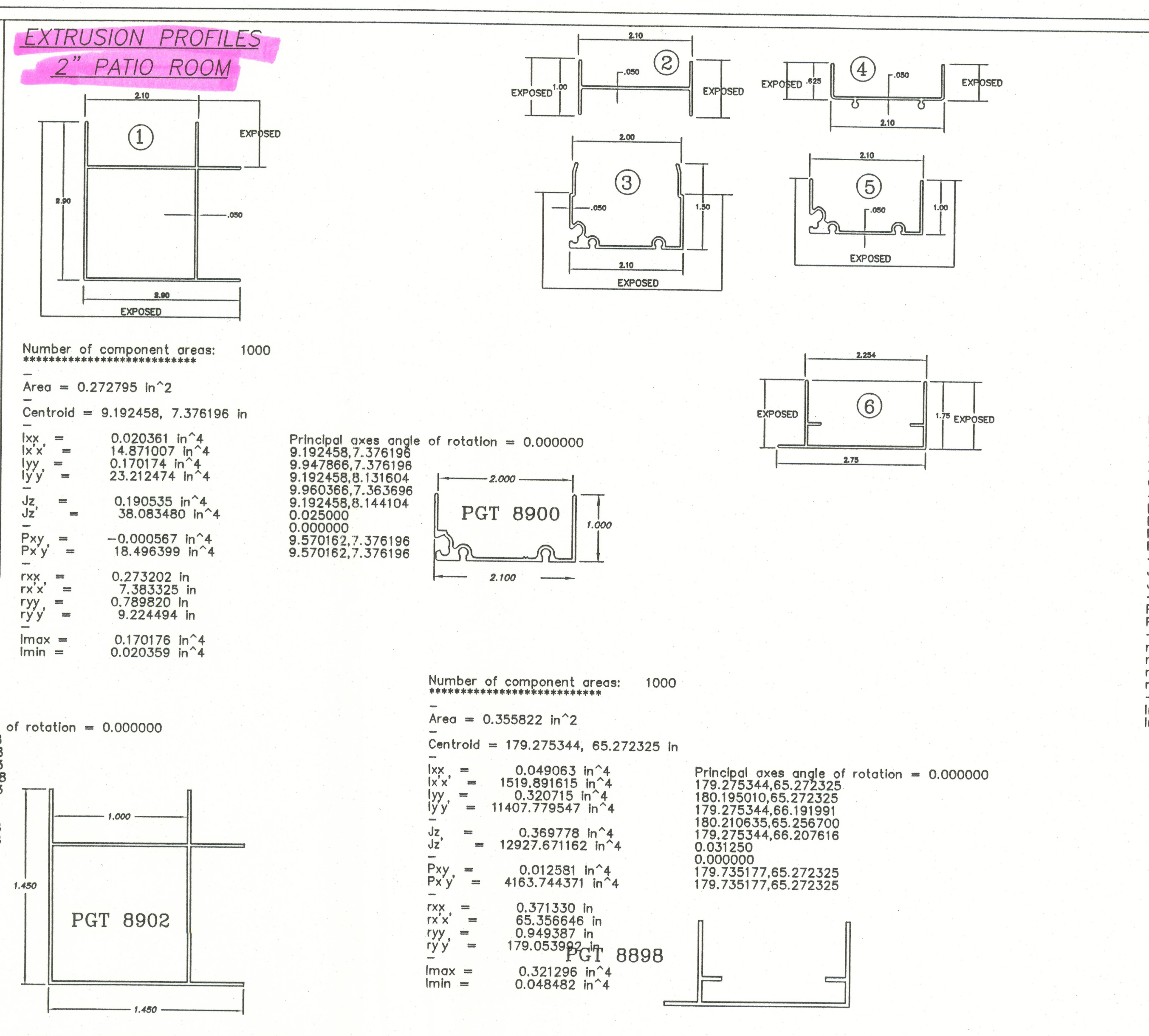
		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	0.98762	0.98762
	Iyy	0.51577	0.51577
RADIUS OF GYRATION:	xx	1.00376	1.00376
	yy	0.72538	0.72538
EXTREME FIBRE:	O	1.00417	1.00619
	C	1.62630	1.62765

SOLIDS FOR #820

		MAIN AXES (x / y)	PRIN. AXES (MJR / MNR)
MOMENTS OF INERTIA:	Ixx	6.20584	6.20584
	Iyy	1.21394	1.21394
RADIUS OF GYRATION:	xx	1.69190	1.69190
	yy	0.74830	0.74829
EXTREME FIBRE:	O	1.00433	1.00723
	C	2.77247	2.77364

```
Number of component areas:   1000
***************************
—
Area = 0.566080 in^2
—
Centroid = 20.371189, 13.074018 in
—
Ixx   =     0.517419 in^4
Ix'x' =    97.256931 in^4
Iyy   =     0.517419 in^4
Iy'y' =   235.400370 in^4
—
Jz    =     1.034837 in^4
Jz'   =   332.657301 in^4
—
Pxy   =    -0.023451 in^4
Px'y' =   150.742501 in^4
—
rxx   =     0.956053 in
rx'x' =    13.107546 in
ryy   =     0.956053 in
ry'y' =    20.392227 in
—
Imax  =     0.540869 in^4
Imin  =     0.493968 in^4

Principal axes angle of rotation = 0.000000
20.371189,13.074018
22.017754,13.074018
20.371189,14.720583
22.054004,13.037768
20.371189,14.756833
0.072500
0.000000
21.194472,13.074018
21.194472,13.074018
```

EXTRUSION PROFILES
2" PATIO ROOM

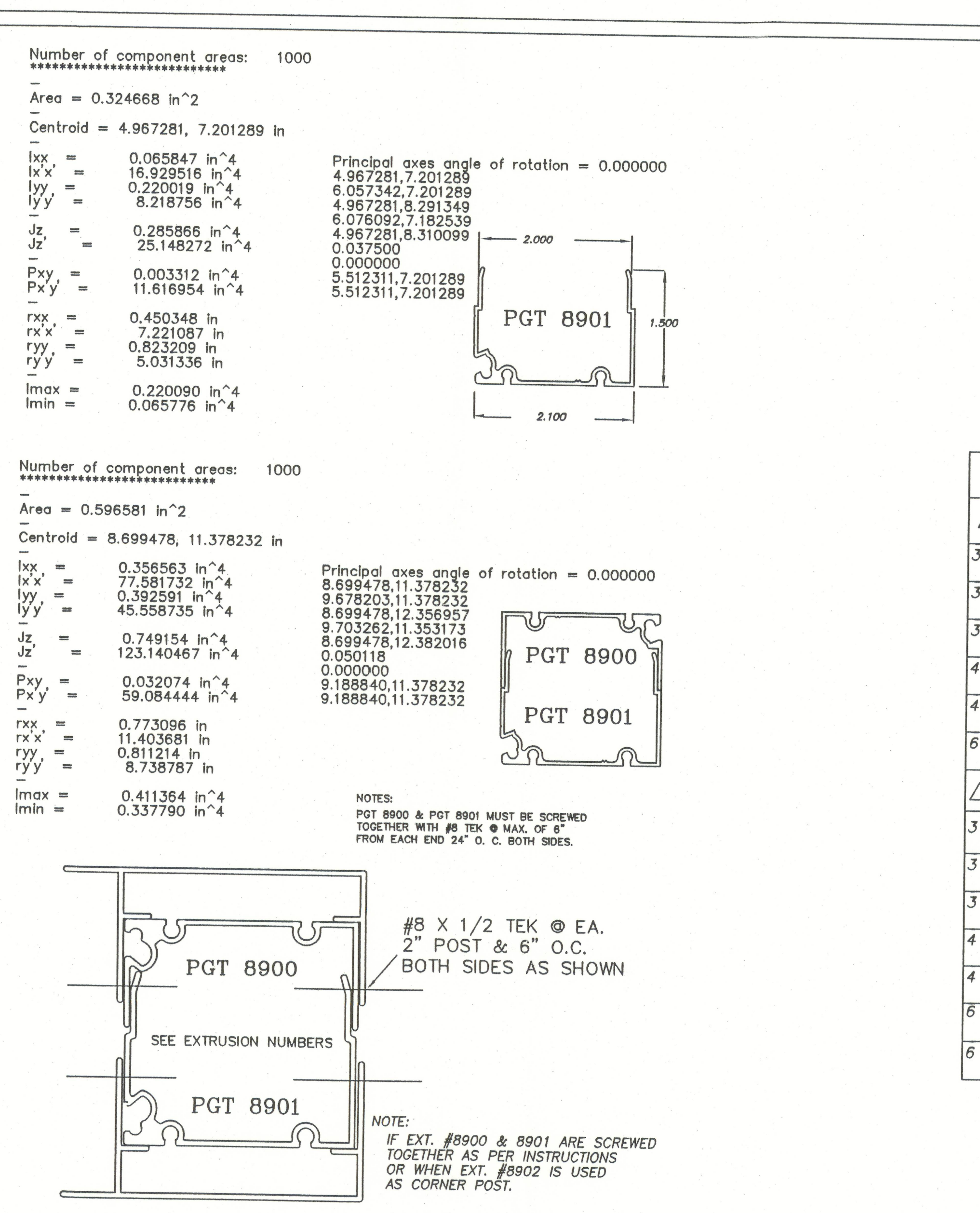

①
2.10
EXPOSED
2.90
.050
2.90
EXPOSED
②
2.10
1.00
.050
EXPOSED
EXPOSED
③
2.00
.050
1.50
2.10
EXPOSED
④
.625
.050
2.10
EXPOSED
EXPOSED
⑤
2.10
.050
1.00
EXPOSED
⑥
2.254
1.75
2.75
EXPOSED
EXPOSED
PGT 8900
2.000
1.000
2.100
PGT 8902
1.000
1.450
1.450
PGT 8898

```
Number of component areas:   1000
***************************
—
Area = 0.272795 in^2
—
Centroid = 9.192458, 7.376196 in
—
Ixx   =     0.020361 in^4
Ix'x' =    14.871007 in^4
Iyy   =     0.170174 in^4
Iy'y' =    23.212474 in^4
—
Jz    =     0.190535 in^4
Jz'   =    38.083480 in^4
—
Pxy   =    -0.000567 in^4
Px'y' =    18.496399 in^4
—
rxx   =     0.273202 in
rx'x' =     7.383325 in
ryy   =     0.789820 in
ry'y' =     9.224494 in
—
Imax  =     0.170176 in^4
Imin  =     0.020359 in^4

Principal axes angle of rotation = 0.000000
9.192458,7.376196
9.947866,7.376196
9.192458,8.131604
9.960366,7.363696
9.192458,8.144104
0.025000
0.000000
9.570162,7.376196
9.570162,7.376196
```

```
Number of component areas:   1000
***************************
—
Area = 0.355822 in^2
—
Centroid = 179.275344, 65.272325 in
—
Ixx   =     0.049063 in^4
Ix'x' =  1519.891615 in^4
Iyy   =     0.320715 in^4
Iy'y' = 11407.779547 in^4
—
Jz    =     0.369778 in^4
Jz'   = 12927.671162 in^4
—
Pxy   =     0.012581 in^4
Px'y' =  4163.744371 in^4
—
rxx   =     0.371330 in
rx'x' =    65.356646 in
ryy   =     0.949387 in
ry'y' =   179.053992 in
—
Imax  =     0.321296 in^4
Imin  =     0.048482 in^4

Principal axes angle of rotation = 0.000000
179.275344,65.272325
180.195010,65.272325
179.275344,66.191991
180.210635,65.256700
179.275344,66.207616
0.031250
0.000000
179.735177,65.272325
179.735177,65.272325
```

```
Number of component areas:   1000
***************************
—
Area = 0.324668 in^2
—
Centroid = 4.967281, 7.201289 in
—
Ixx   =     0.065847 in^4
Ix'x' =    16.929516 in^4
Iyy   =     0.220019 in^4
Iy'y' =     8.218756 in^4
—
Jz    =     0.285866 in^4
Jz'   =    25.148272 in^4
—
Pxy   =     0.003312 in^4
Px'y' =    11.616954 in^4
—
rxx   =     0.450348 in
rx'x' =     7.221087 in
ryy   =     0.823209 in
ry'y' =     5.031336 in
—
Imax  =     0.220090 in^4
Imin  =     0.065776 in^4

Principal axes angle of rotation = 0.000000
4.967281,7.201289
6.057342,7.201289
4.967281,8.291349
6.076092,7.182539
4.967281,8.310099
0.037500
0.000000
5.512311,7.201289
5.512311,7.201289
```

```
Number of component areas:   1000
***************************
—
Area = 0.596581 in^2
—
Centroid = 8.699478, 11.378232 in
—
Ixx   =     0.356563 in^4
Ix'x' =    77.581732 in^4
Iyy   =     0.392591 in^4
Iy'y' =    45.558735 in^4
—
Jz    =     0.749154 in^4
Jz'   =   123.140467 in^4
—
Pxy   =     0.032074 in^4
Px'y' =    59.084444 in^4
—
rxx   =     0.773096 in
rx'x' =    11.403681 in
ryy   =     0.811214 in
ry'y' =     8.738787 in
—
Imax  =     0.411364 in^4
Imin  =     0.337790 in^4

Principal axes angle of rotation = 0.000000
8.699478,11.378232
9.678203,11.378232
8.699478,12.356957
9.703262,11.353173
8.699478,12.382016
0.050118
0.000000
9.188840,11.378232
9.188840,11.378232
```


PGT 8901
2.000
1.500
2.100
PGT 8900
PGT 8901
PGT 8900
SEE EXTRUSION NUMBERS
PGT 8901

NOTES:
PGT 8900 & PGT 8901 MUST BE SCREWED TOGETHER WITH #8 TEK @ MAX. OF 6" FROM EACH END 24" O. C. BOTH SIDES.

#8 X 1/2 TEK @ EA. 2" POST & 6" O.C. BOTH SIDES AS SHOWN

NOTE:
IF EXT. #8900 & 8901 ARE SCREWED TOGETHER AS PER INSTRUCTIONS OR WHEN EXT. #8902 IS USED AS CORNER POST.

GENERAL NOTES:

1.) CALCULATION TABLES INCLUDE A 33.3% INCREASE FOR SEISMIC AND WIND CONDITIONS.

2.) BOLTED CONNECTIONS:
STEEL BOLTS USED WITH ALUMINUM STRUCTURES SHALL BE ALUMINIZED HOT DIPPED GALVANIZED, ZINC PLATED, ELECTRO-GALVANIZED, OR STAINLESS STEEL IN ORDER TO PREVENT GALVANIC CORROSION THAT WILL RESULT FROM DIRECT CONTACT BETWEEN STEEL AND ALUMINUM.

3.) ALL DATA IS CALCULATED FOR EXPOSURE "B" & "C" (DEPENDING ON ROOM TYPE) AS DESCRIBED IN THE A.S.C.E. HANDBOOK ANSI/ASCE 7-98

4.) THESE PLANS ARE IN COMPLIANCE WITH THE 2001 EDITION OF THE FLORIDA BUILDING CODE.

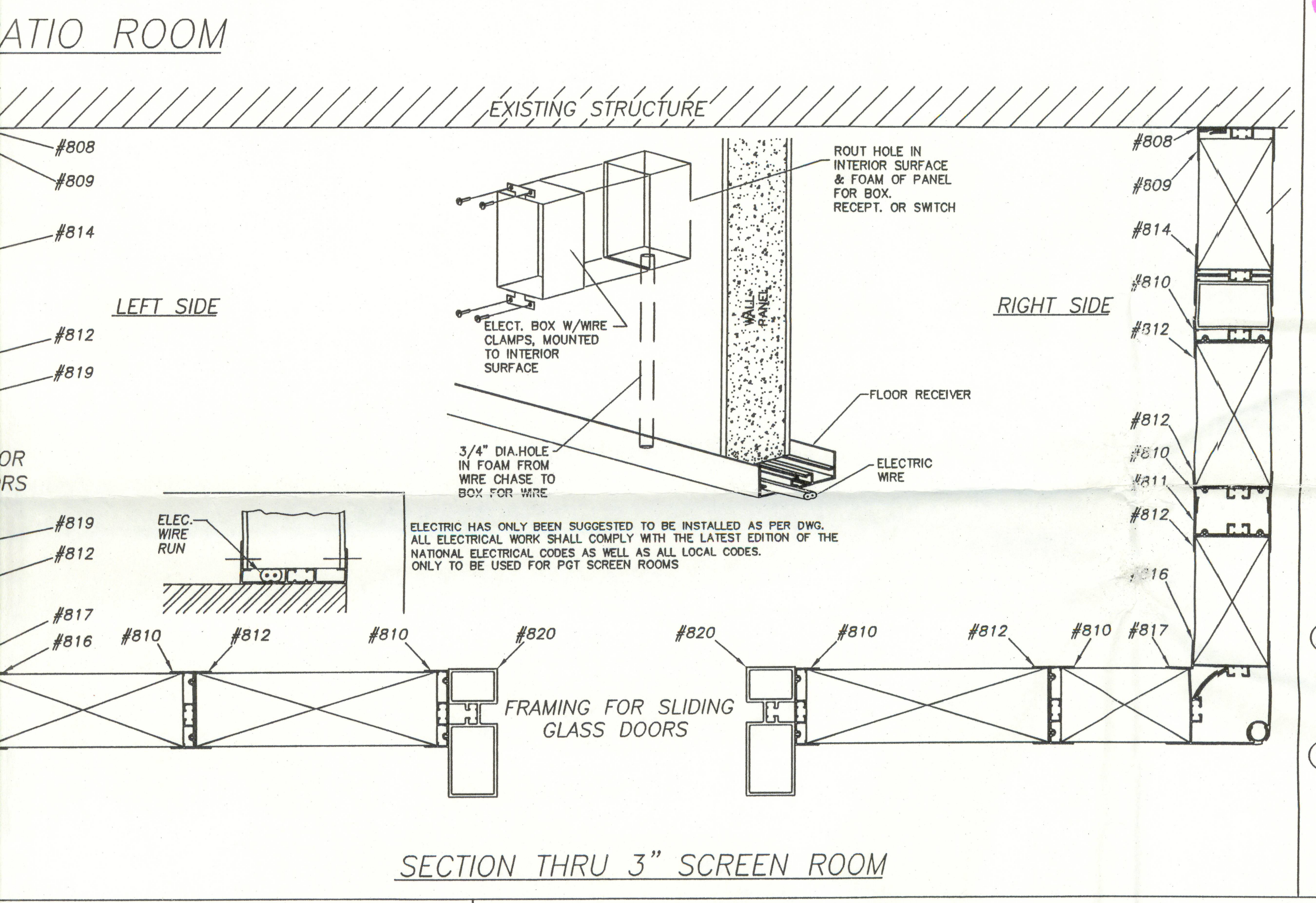
CAUTION:
THESE CALCULATIONS AND TABLES ARE INTENDED AS MINIMUM GUIDELINES TO NORMAL & PROPER INSTALLATION ANY VARIANCES MUST BE REVIEWED BY A REGISTERED PROFESSIONAL ENGINEER.

NATURESCAPE ROOF PANEL SPAN CHARTS

△ = L/80	10 P.S.F.	20 P.S.F.	25 P.S.F.	31 P.S.F.	40 P.S.F.	60 P.S.F.	65 P.S.F.	70 P.S.F.	80 P.S.F.	90 P.S.F.	100 P.S.F.
3 IN. 1# FOAM 0.019 AL.	15'	13'-1"	12'-6"	12'	11'	9'	8'-8"				
3 IN. 1# FOAM 0.024 AL.	16'	14'	13'-6"	13'	12'	8'	7'-6"				
3 IN. 2# FOAM 0.030 AL.	17'	16'-6"	16'	15'	14'	12'-4"	12'				
4 IN. 1# FOAM 0.024 AL.	19'-2"	16'-10"	16'-2"	15'-7"	14'-5"	12'-5"	12'-2"	10'-11"	9'-10"	8'-8"	7'-6"
4 IN. 2# FOAM 0.030 AL.	20'-5"	19'-10"	19'-2"	18'	16'-10"	14'-8"	14'-5"	13'-6"	12'-4"	11'-2"	9'-8"
6 IN. 2# FOAM 0.030 AL.	29'	28'	27'-6"	26'	24'-7"	19-7"	19'	18'	16'-6"	15'	13'
△ = L/180											
3 IN. 1# FOAM 0.019 AL.	11'-6"	10'-5"	9'-8"	8'-11"	7'	4'	3'-10"				
3 IN. 1# FOAM 0.024 AL.	12'-8"	12'	10'-2"	9'-7"	7'-2"	4'-2"	4'-1"				
3 IN. 2# FOAM 0.030 AL.	16'	14'-2"	13'-1"	12'-5"	11'-8"	9'-2"	9'				
4 IN. 1# FOAM 0.024 AL.	16'-1"	14'-5"	13'-10"	12'-7"	11'-10	9'-5"	9'-1'	7'-7"	5'-2"	2'-10"	1'-2"
4 IN. 2# FOAM 0.030 AL.	19'-2"	17'	15'-8"	14'-10"	14'	9'-10"	8'-10"	7'-1"	4'-10"	2'-1"	1'-1"
6 IN. 1# FOAM 0.030 AL.	25'	21'-6"	20'	18'	15'-6"	10'	10-'11"	9'	6'	2'-10"	1'-2"
6 IN. 2# FOAM 0.030 AL.	28'	24'-6"	23'	21'-6"	18'-6"	12'-6"	11'	9'-6"	6'-6"	3'-6"	1'-6"

J

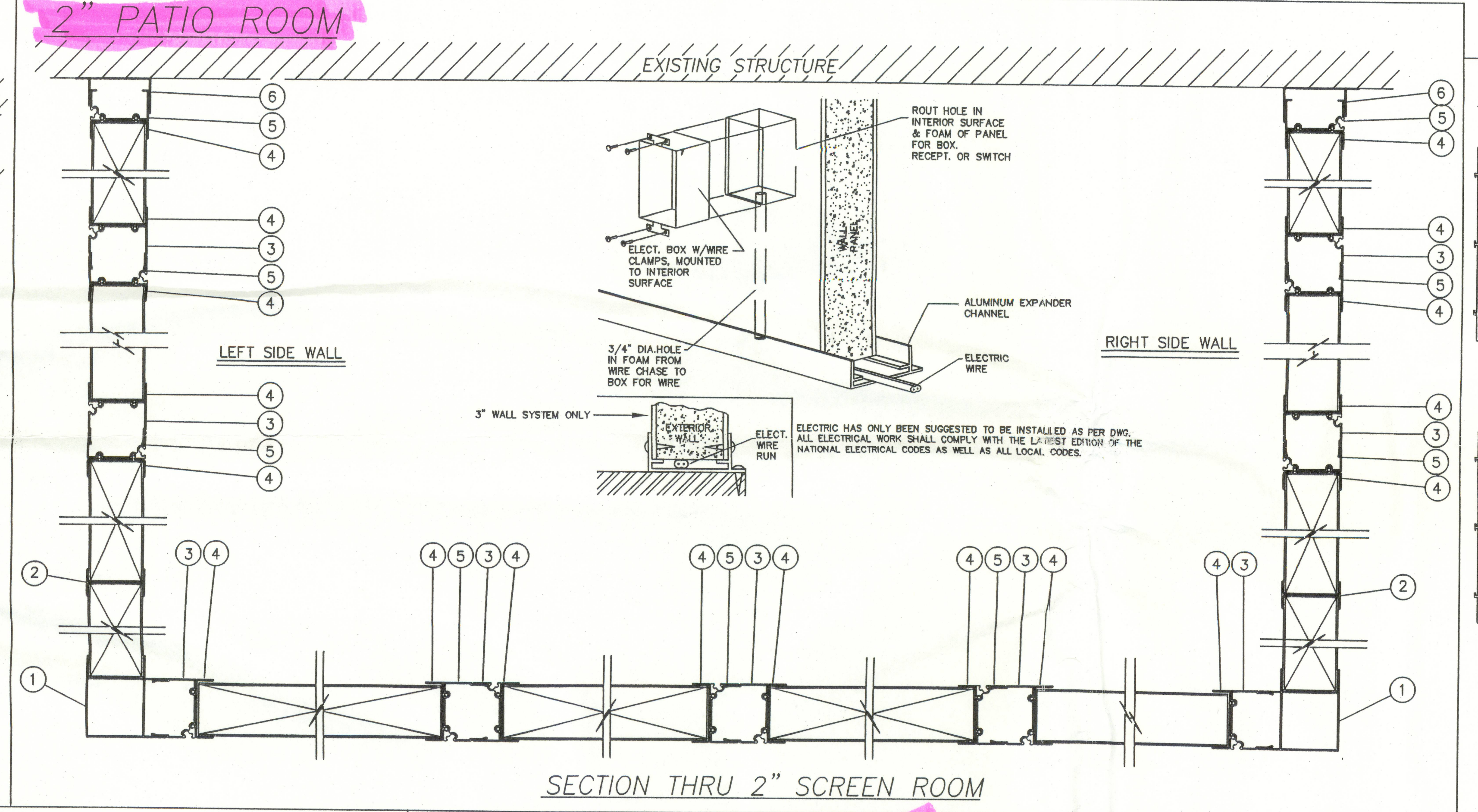
ATIO ROOM


EXISTING STRUCTURE
#808
#809
#814
LEFT SIDE
#812
#819
OR
RS
#819
#812
#817
#816
ROUT HOLE IN INTERIOR SURFACE & FOAM OF PANEL FOR BOX. RECEPT. OR SWITCH
ELECT. BOX W/WIRE CLAMPS, MOUNTED TO INTERIOR SURFACE
WALL PANEL
FLOOR RECEIVER
3/4" DIA.HOLE IN FOAM FROM WIRE CHASE TO BOX FOR WIRE
ELECTRIC WIRE
ELEC. WIRE RUN
RIGHT SIDE
#808
#809
#814
#810
#812
#812
#810
#811
#812
#816
#810
#812
#810
#820
#820
#810
#812
#810
#817
FRAMING FOR SLIDING GLASS DOORS

ELECTRIC HAS ONLY BEEN SUGGESTED TO BE INSTALLED AS PER DWG. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODES AS WELL AS ALL LOCAL CODES. ONLY TO BE USED FOR PGT SCREEN ROOMS

SECTION THRU 3" SCREEN ROOM

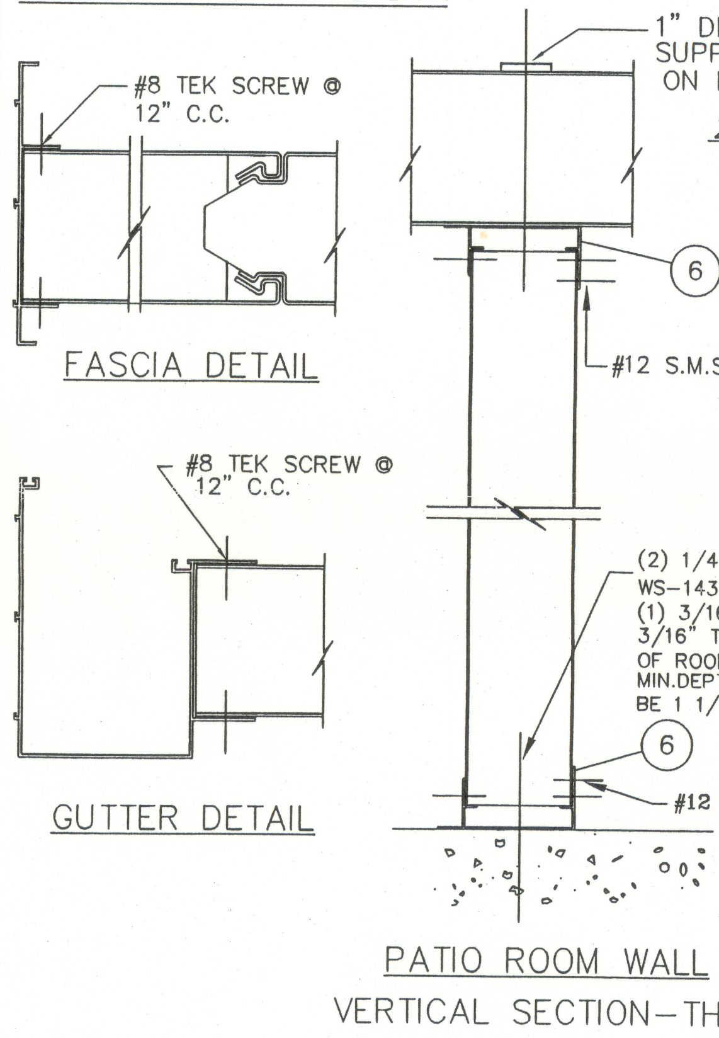
2" PATIO ROOM


EXISTING STRUCTURE
6
5
4
4
3
5
4
LEFT SIDE WALL
4
3
5
4
2
1
3 4
4 5 3 4
4 5 3 4
4 5 3 4
4 3
ROUT HOLE IN INTERIOR SURFACE & FOAM OF PANEL FOR BOX. RECEPT. OR SWITCH
ELECT. BOX W/WIRE CLAMPS, MOUNTED TO INTERIOR SURFACE
WALL PANEL
ALUMINUM EXPANDER CHANNEL
3/4" DIA.HOLE IN FOAM FROM WIRE CHASE TO BOX FOR WIRE
ELECTRIC WIRE
3" WALL SYSTEM ONLY
EXTERIOR WALL
ELECT. WIRE RUN
RIGHT SIDE WALL
6
5
4
4
3
5
4
4
3
5
4
2
1

ELECTRIC HAS ONLY BEEN SUGGESTED TO BE INSTALLED AS PER DWG. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODES AS WELL AS ALL LOCAL CODES.

SECTION THRU 2" SCREEN ROOM

2" PATIO ROOM


#8 TEK SCREW @ 12" C.C.
FASCIA DETAIL
#8 TEK SCREW @ 12" C.C.
GUTTER DETAIL
1" DIA. WASHER W/SEALANT, SUPPLIED BY PGT, ON ROOF PLANS.
6
#12 S.M.S.
(2) 1/4" DIA. REDHEAD WEDGE ANCHORS WS-1432 @ 6" C.C. (1) 3/16" TAPCON BTWN. COLUMNS. 3/16" TAPCONS @ 24" C.C. ON SIDES OF ROOM AND (2) AT COLUMNS. MIN.DEPTH INTO CONCRETE SLAB MUST BE 1 1/2"
6
#12 S.M.S.

PATIO ROOM WALL
VERTICAL SECTION-THRU

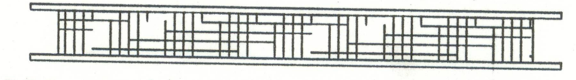
2" PATIO ROOM COMPLIANCE NOTES

NON-HABITABLE 2" SCREEN ROOM
DESIGNED TO WITHSTAND UP TO 130 MPH, EXPOSURE B OR C PER THE FBC IN BOTH UPLIFT AND LATERAL LOADS 54" MAXIMUM PANEL WIDTH

NON-HABITABLE 2" GLASS ROOM
DESIGNED TO WITHSTAND UP TO 110 MPH, EXPOSURE B PER THE FBC IN BOTH UPLIFT AND LATERAL LOADS 50" MAXIMUM PANEL WIDTH

THERMADECK FLOOR PANEL SPAN CHARTS

48" x 3 5/8" E.P.S. & 6 5/8" E.P.S. WITH (2) 15/32 O.S.B. LAMINATES



48" x 3 5/8" E.P.S. WITH (2) 15/32 O.S.B. LAMINATES CLEAR SPAN LENGTH

△ = L/240	10 P.S.F.	15 P.S.F.	20 P.S.F.	25 P.S.F.	30 P.S.F.	35 P.S.F.	40 P.S.F.	45 P.S.F.	50 P.S.F.	55 P.S.F.	60 P.S.F.	65 P.S.F.	70 P.S.F.	75 P.S.F.	80 P.S.F.	85 P.S.F.	90 P.S.F.	95 P.S.F.	100 P.S.F.
3.625" 1# FOAM 2 EA. 15/32 OSB	12'-6"	12'-0"	11'-6"	11'-0"	10'-6"	10'-0"	9'-6"	9'-0"	8'-6"	8'-0"									

48" x 3 5/8" E.P.S. WITH (2) 15/32 O.S.B. LAMINATES CLEAR SPAN LENGTH

△ = L/360	10 P.S.F.	15 P.S.F.	20 P.S.F.	25 P.S.F.	P.S.F.	35 P.S.F.	40 P.S.F.	45 P.S.F.	50 P.S.F.	55 P.S.F.	60 P.S.F.	65 P.S.F.	70 P.S.F.	75 P.S.F.	80 P.S.F.	85 P.S.F.	90 P.S.F.	95 P.S.F.	100 P.S.F.
3.625" 2# FOAM 2 EA. 15/32 OSB	13'-6"	12'-6"	12'-0"	11'-8"	11'-4"	11'-0"	10'-6"	10'-0"	9'-10"	9'-8"	9'-6"	9'-4"	9'-0"	8'-8"	8'-6"	8'-4"	8'-0"	7'-0"	6'-0"

48" x 6 5/8" E.P.S. WITH (2) 15/32 O.S.B. LAMINATES CLEAR SPAN LENGTH

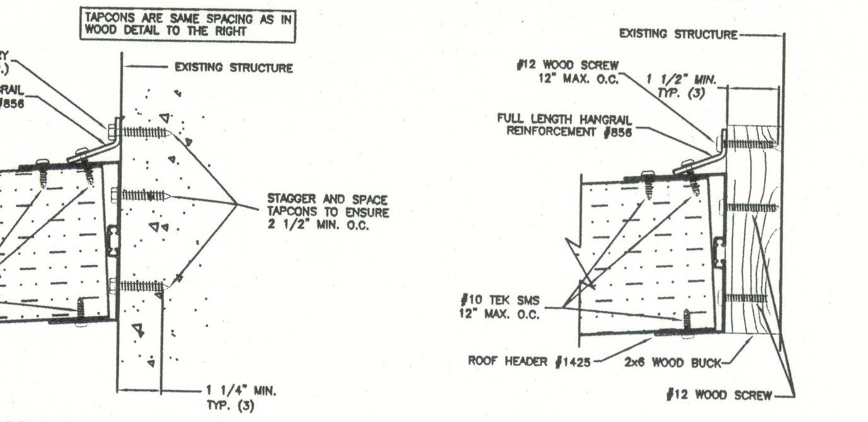
△ = L/360	10 P.S.F.	15 P.S.F.	20 P.S.F.	25 P.S.F.	30 P.S.F.	35 P.S.F.	40 P.S.F.	45 P.S.F.	50 P.S.F.	60 P.S.F.	65 P.S.F.	70 P.S.F.	75 P.S.F.	80 P.S.F.	85 P.S.F.	90 P.S.F.	95 P.S.F.	100 P.S.F.
6.625" 2# FOAM 2 EA. 15/32 OSB	22'-8"	21'-8"	21'-6"	21'-2"	20'-0"	19'-9"	19'-0"	18'-2"	17'-2"	16'-6"	16'-2"	15"-6	15'-1"	14'-8"	14'-2"	13'-10	12'-0"	10'-6"

THERMAL EFFICIENCY RATINGS FOR EPS FOAM PANELS

THICKNESS	R VALUE	C FACTOR
2"	8.3	.12
2 1/2"	10.4	.10
3"	12.5	.08
3 1/2"	14.6	.07
4"	16.6	.06
5"	20.8	.05
6"	25.0	.04
8"	33.2	.03

NOTE:
VALUES BASED ON THERMAL CONDUCTIVITY (K) OF 0.24 @ 40 F MEAN TEST TEMP FOR 1.0 PCF DENSITY EPS FOAM

ROOF HEADER ANCHORAGE REQUIREMENTS FOR 111 TO 130 MPH, EXP. B OR C


TAPCONS ARE SAME SPACING AS IN WOOD DETAIL TO THE RIGHT
1/4" MASONRY FASTENER (TYP.)
FULL LENGTH HANGRAIL REINFORCEMENT #856
EXISTING STRUCTURE
STAGGER AND SPACE TAPCONS TO ENSURE 2 1/2" MIN. O.C.
#10 TEK SMS 12" MAX. CENTERS
1 1/4" MIN. TYP. (3)
EXISTING STRUCTURE
#12 WOOD SCREW 12" MAX. O.C.
1 1/2" MIN. TYP. (3)
FULL LENGTH HANGRAIL REINFORCEMENT #856
#10 TEK SMS 12" MAX. O.C.
ROOF HEADER #1425
2x6 WOOD BUCK
#12 WOOD SCREW

ROOF HEADER TO MASONRY

ROOF HEADER TO WOOD

G

SURFACE BURNING CHARACTERISTICS OF PGT COMPOSITE PANEL

	1" Max.	2" Max.	3" Max.	4" Max.
Flame Spread	10 *	10 **	15 ***	15 ***
Fuel Contributed	— Non Determinable —			
Smoke Developed	130 *	130 **	130 ***	130 ***

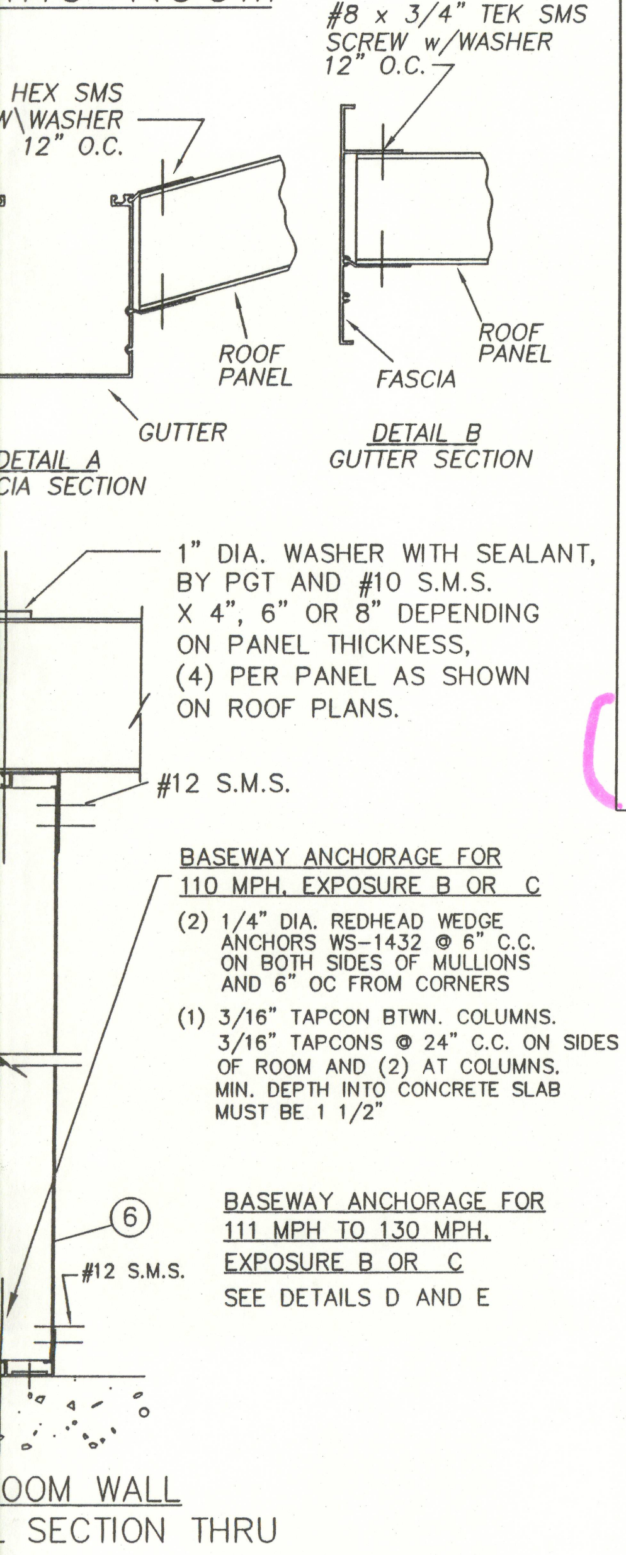
* Installed in a thickness, or stored in an effective thickness, as indicated, for a density of 1.0 lb/ft^3

* Flame spread and smoke developed recorded while material remained in the original test position.Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread classification of 15 and smoke developed classification of over 200.

** Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread classification of 70 and smoke developed classification of over 450.

*** Flame spread and smoke developed recorded while material remained in the original test position. Ignition of molten residue on the furnace floor resulted in flame travel equivalent to calculated flame spread classification of 85 and smoke developed classification of over 450.

ATIO ROOM


#8 x 3/4" TEK SMS SCREW w/WASHER 12" O.C.
HEX SMS W\WASHER 12" O.C.
ROOF PANEL
ROOF PANEL
FASCIA
GUTTER
DETAIL A
CIA SECTION
DETAIL B
GUTTER SECTION
#12 S.M.S.
6
#12 S.M.S.

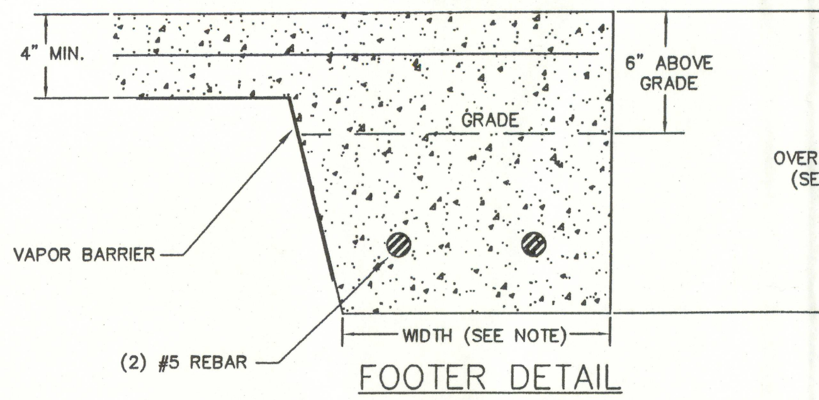
1" DIA. WASHER WITH SEALANT, BY PGT AND #10 S.M.S. X 4", 6" OR 8" DEPENDING ON PANEL THICKNESS, (4) PER PANEL AS SHOWN ON ROOF PLANS.

BASEWAY ANCHORAGE FOR 110 MPH, EXPOSURE B OR C
(2) 1/4" DIA. REDHEAD WEDGE ANCHORS WS-1432 @ 6" C.C. ON BOTH SIDES OF MULLIONS AND 6" OC FROM CORNERS
(1) 3/16" TAPCON BTWN. COLUMNS. 3/16" TAPCONS @ 24" C.C. ON SIDES OF ROOM AND (2) AT COLUMNS. MIN. DEPTH INTO CONCRETE SLAB MUST BE 1 1/2"

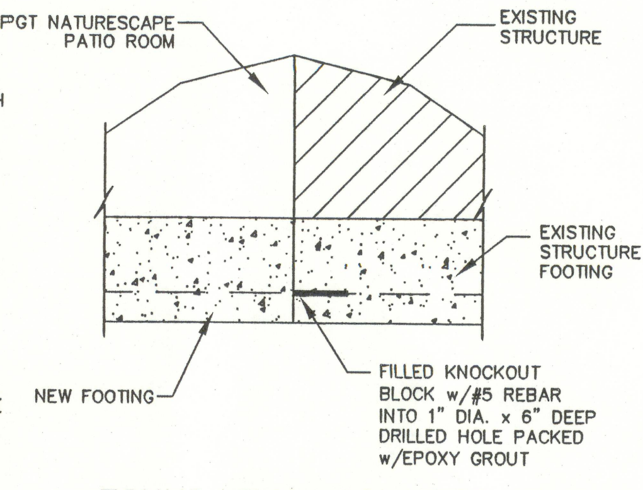
BASEWAY ANCHORAGE FOR 111 MPH TO 130 MPH, EXPOSURE B OR C
SEE DETAILS D AND E

OOM WALL
L SECTION THRU

2" & 3" PATIO ROOM FOUNDATION DETAILS


4" MIN.
6" ABOVE GRADE
GRADE
OVERALL DEPTH (SEE NOTE)
VAPOR BARRIER
WIDTH (SEE NOTE)
(2) #5 REBAR

FOOTER DETAIL
(SEE NOTE)


PGT NATURESCAPE PATIO ROOM
EXISTING STRUCTURE
EXISTING STRUCTURE FOOTING
NEW FOOTING
FILLED KNOCKOUT BLOCK w/#5 REBAR INTO 1" DIA. x 6" DEEP DRILLED HOLE PACKED w/EPOXY GROUT

FOUNDATION CONNECTION TO EXISTING STRUCTURE DETAIL
(SEE NOTE)

FOUNDATION TO BE 2500 P.S.I. CONCRETE MIN., HAVE AN APPROVED VAPOR BARRIER, TERMITE CONDITIONING, (2) #5 REBAR AND A MINIMUM OF 6x6x #10 WIRE MESH ON A VEGETATION FREE SOIL BASE. REMOVE AND REPLACE ALL DELETERIOUS MATERIAL WITH GRANULAR FILL COMPOSED OF 95% PROCTOR.

ATTACHMENT TO EXISTING STRUCTURE FOUNDATION: MUST HAVE (2) #5 REBARS EMBEDDED INTO EXISTING STRUCTURE SLAB AT EACH LOCATION WHERE PATIO ROOM FOOTER MEETS THE EXISTING STRUCTURE FOOTER.

SCREEN ROOMS WITH NO FOAM PANELS: MUST HAVE A MINIMUM SLAB OF 3 1/2" THICK WITH AN 8"D x 12"W FOOTER.

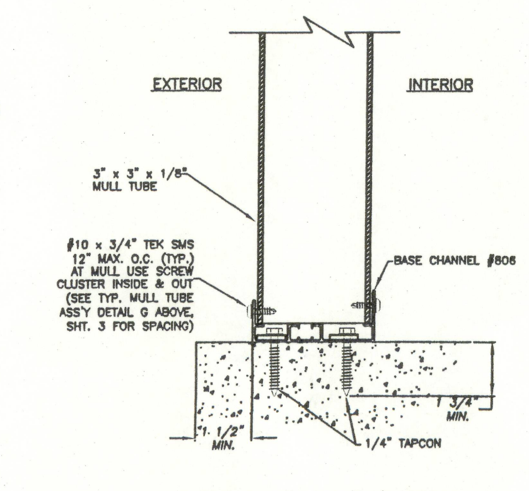
GLASS OR SCREEN ROOMS WITH FOAM PANELS: MUST HAVE A MINIMUM SLAB OF 4" THICK WITH AN 18"D x 16"W FOOTER. TOP OF SLAB TO BE 6" ABOVE GRADE AND BOTTOM OF FOOTER TO BE 12" BELOW GRADE.

EXCEPTIONS: TEMPORARY BUILDINGS AND BUILDINGS NOT EXCEEDING ONE STORY IN HEIGHT AND 400 SQ. FT. IN AREA SHALL BE EXEMPT FROM THE ABOVE REQUIREMENTS AS PER SEC. 1804.1.4 OF THE FBC, 2001 EDITION.

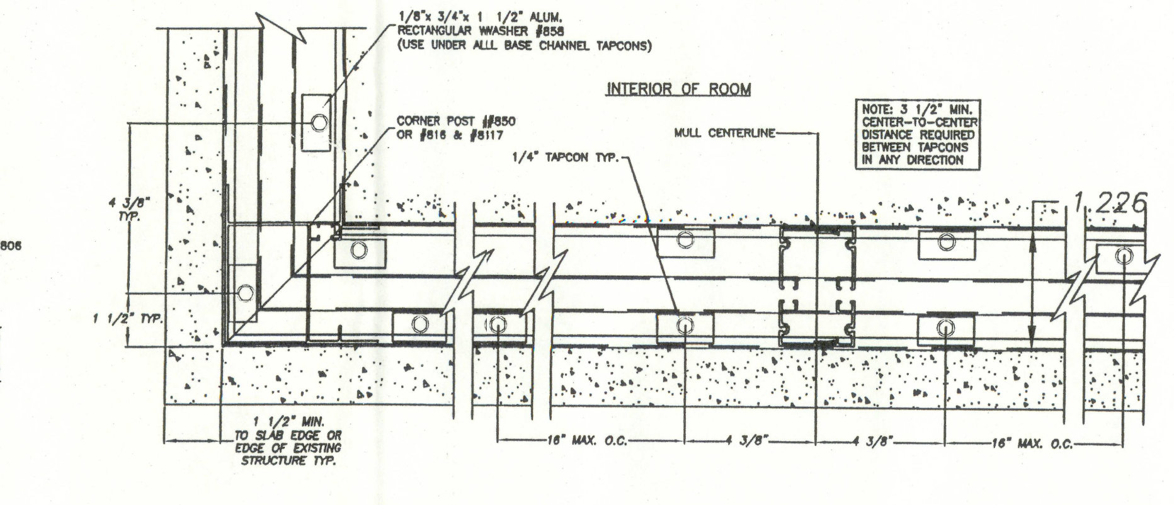
NOTE: PATIO ROOM FOUNDATION AND FOOTER MUST COMPLY WITH THE FBC, 2001 EDITION.

E G J

BASE CHANNEL ANCHORAGE REQUIREMENTS FOR 111 TO 130 MPH, EXP. B OR C


EXTERIOR
INTERIOR
3" x 3" x 1/8" MULL TUBE
#10 x 3/4" TEK SMS 12" MAX. O.C. (TYP.) AT MULL USE SCREW CLUSTER INSIDE & OUT (SEE TYP. MULL TUBE ASSY DETAIL G ABOVE, SHT. 3 FOR SPACING)
BASE CHANNEL #806
1 3/4" MIN.
1 1/2" MIN.
1/4" TAPCON

VERTICAL ANCHORAGE DETAIL
DETAIL D


1/8"x 3/4"x 1 1/2" ALUM. RECTANGULAR WASHER #858 (USE UNDER ALL BASE CHANNEL TAPCONS)
INTERIOR OF ROOM
CORNER POST #850 OR #816 & #8117
MULL CENTERLINE
1/4" TAPCON TYP.
NOTE: 3 1/2" MIN. CENTER-TO-CENTER DISTANCE REQUIRED BETWEEN TAPCONS IN ANY DIRECTION
4 3/8" TYP.
1 1/2" TYP.
1.226
1 1/2" MIN. TO SLAB EDGE OR EDGE OF EXISTING STRUCTURE TYP.
16" MAX. O.C.
4 3/8"
4 3/8"
16" MAX. O.C.

BASE CHANNEL TO CONCRETE ANCHORAGE AT MULL LOCATION
DETAIL E

3" PATIO ROOM COMPLIANCE NOTES

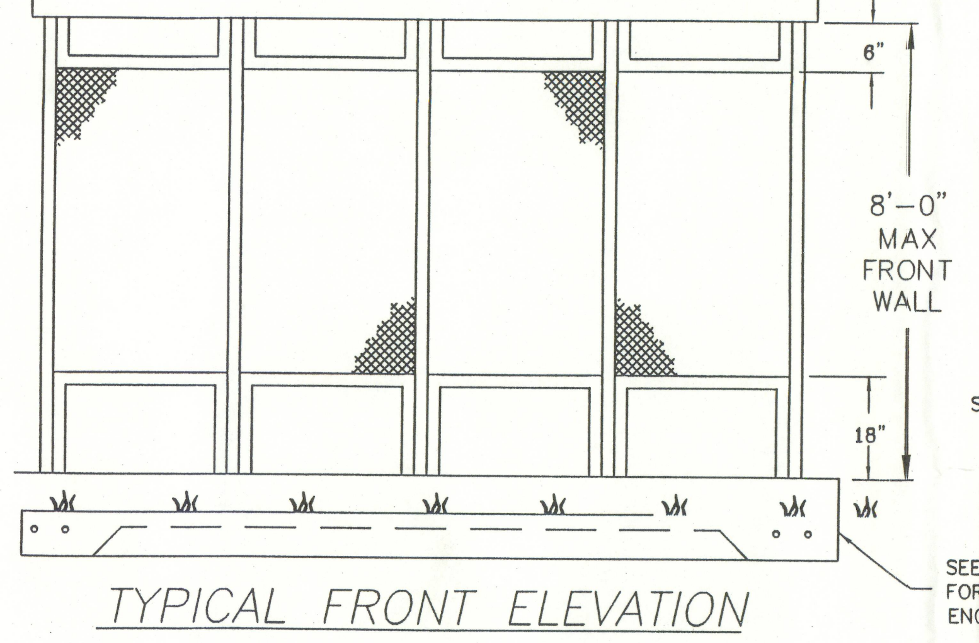
HABITABLE 3" GLASS ROOM
DESIGNED TO WITHSTAND UP TO 110 MPH, EXPOSURE B OR C PER THE FBC IN BOTH UPLIFT AND LATERAL LOADS 54" MAXIMUM PANEL WIDTH

NON-HABITABLE 3" GLASS ROOM
DESIGNED TO WITHSTAND UP TO 125 MPH, EXPOSURE B PER THE FBC IN BOTH UPLIFT AND LATERAL LOADS 50" MAXIMUM PANEL WIDTH

NON-HABITABLE 3" SCREEN ROOM
DESIGNED TO WITHSTAND UP TO 130 MPH, EXPOSURE B or C PER THE FBC IN BOTH UPLIFT AND LATERAL LOADS 54" MAXIMUM PANEL WIDTH
NOTE: SCREEN SPLINE BY OTHERS

G K

2" & 3" PATIO ROOM

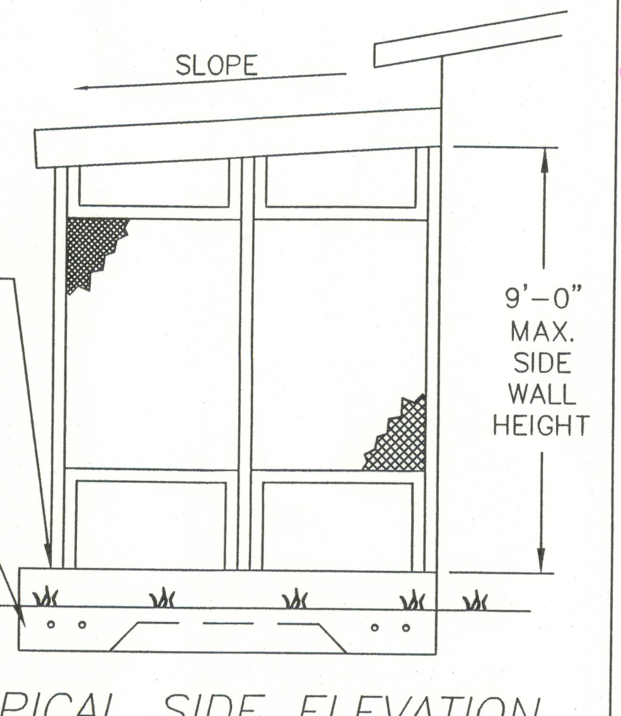

6"
8'-0" MAX FRONT WALL
18"

TYPICAL FRONT ELEVATION

SEE FOUNDATION SPECIFICATIONS FOR SCREEN ROOMS & GLASS ENCLOSURES TO THE LEFT

APPROVED CAULKING MUST BE USED AS SEALANT BETWEEN SILL EXTRUSION AND CONCRETE ELEVATION AND DISTANCE ABOVE GRADE TO BE IN ACCORDANCE WITH LOCAL BUILDING CODES

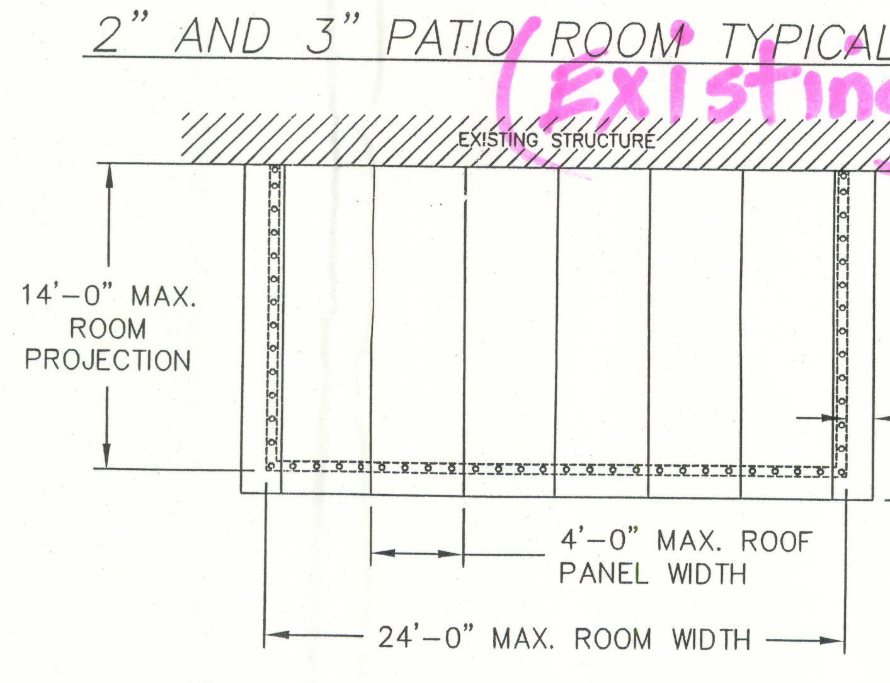
SEE FOUNDATION SPECIFICATIONS FOR SCREEN ROOMS & GLASS ENCLOSURES TO THE LEFT


SLOPE
9'-0" MAX. SIDE WALL HEIGHT

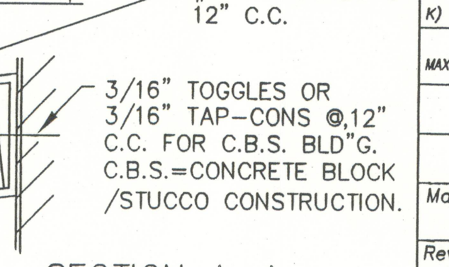
TYPICAL SIDE ELEVATION

2" AND 3" PATIO ROOM TYPICAL ROOF PLAN

(Existing)


EXISTING STRUCTURE
14'-0" MAX. ROOM PROJECTION
REFERENCE ROOF PANEL SPAN CHARTS
1'-6" MAX. OVERHANG ALL SIDES
4'-0" MAX. ROOF PANEL WIDTH
24'-0" MAX. ROOM WIDTH

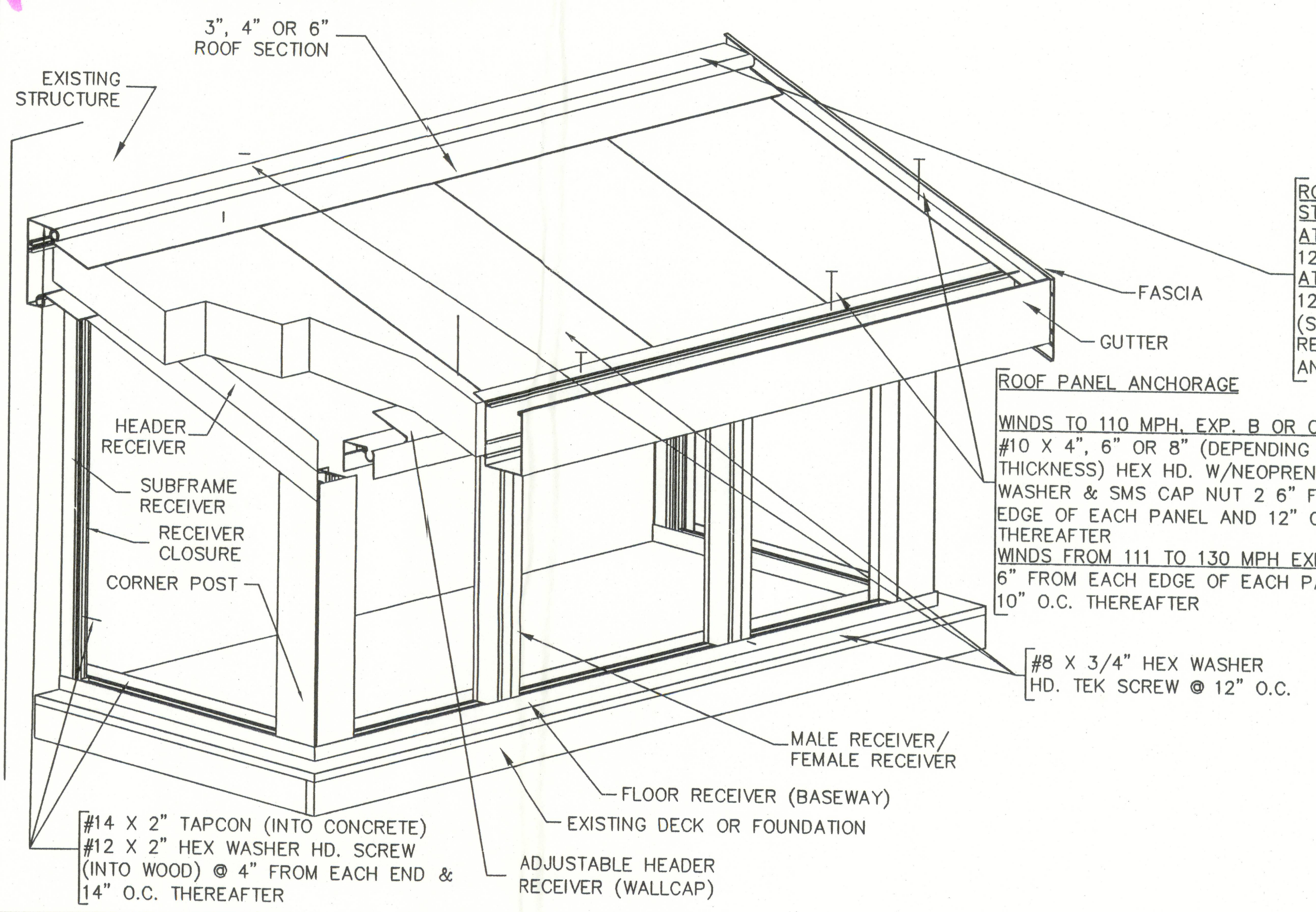
NOTE: ROOMS WIDER THAN 24'-0" WILL REQUIRE JOB SPECIFIC ENGINEERING


#8 TEK SCREW @ 12" C.C.
3/16" TOGGLES OR 3/16" TAP-CONS @,12" C.C. FOR C.B.S. BLD"G. C.B.S.=CONCRETE BLOCK /STUCCO CONSTRUCTION.

SECTION A-A
2" ROOM

2" & 3" PATIO ROOM ANCHORAGE

NOTE: CAULK ALL JOINTS, EDGES AND FASTENERS


3", 4" OR 6" ROOF SECTION
EXISTING STRUCTURE
FASCIA
GUTTER
HEADER RECEIVER
SUBFRAME RECEIVER
RECEIVER CLOSURE
CORNER POST
MALE RECEIVER/ FEMALE RECEIVER
FLOOR RECEIVER (BASEWAY)
EXISTING DECK OR FOUNDATION
ADJUSTABLE HEADER RECEIVER (WALLCAP)

ROOF HEADER ATTACHMENT TO EXISTING STRUCTURE FOR 110 MPH, EXPOSURE B OR C
ATTACHMENT TO CONCRETE: 1/4" TAPCON @ 12" O.C. 1 1/4" MIN. EMBEDMENT
ATTACHMENT TO WOOD: #12 WOOD SCREW @ 12" O.C. 1 1/2" MIN. EMBEDMENT
(SEE SPECIFICATIONS FOR ANCHORAGE REQUIREMENTS FOR WIND LOADS BETWEEN 111 AND 130 MPH, EXPOSURE B OR C)

ROOF PANEL ANCHORAGE

WINDS TO 110 MPH, EXP. B OR C:
#10 X 4", 6" OR 8" (DEPENDING ON ROOF THICKNESS) HEX HD. W/NEOPRENE FACED WASHER & SMS CAP NUT 2 6" FROM EACH EDGE OF EACH PANEL AND 12" O.C. THEREAFTER
WINDS FROM 111 TO 130 MPH EXP. B OR C:
6" FROM EACH EDGE OF EACH PANEL AND 10" O.C. THEREAFTER

#8 X 3/4" HEX WASHER HD. TEK SCREW @ 12" O.C.

#14 X 2" TAPCON (INTO CONCRETE)
#12 X 2" HEX WASHER HD. SCREW (INTO WOOD) @ 4" FROM EACH END & 14" O.C. THEREAFTER

NOTE: EXISTING STRUCTURE HAS NOT BEEN CHECKED FOR STRUCTURAL ADEQUACY.

FEB 08 2005

Revisions:
K) INCREASED NON-HABITABLE, 3" GLASS ROOM ALLOWABLE MAX WIND SPEED TO 125 MPH

Material:

Revsd By: WDR | Date: 12/16/04 | Chkd By: BC | Date: 12/16/04
Drawn By: R.S. | Date: 3/8/95

Tolerances Unless Noted:
Fractions: ± 1/64
Decimal .00: ± .01
Decimal .000 ±.005
Angular: ± 1°

Series/Model:
SCREEN ROOM

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Description:
2" AND 3" NATURESCAPE PATIO ROOM

PGT NO: | VENDOR NO: | Scale: NTS | Sheet: 1 of 1 | Drawing No. VT1692-FBC | Rev: K

PGT INDUSTRIES
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NOKOMIS, FL 34274