

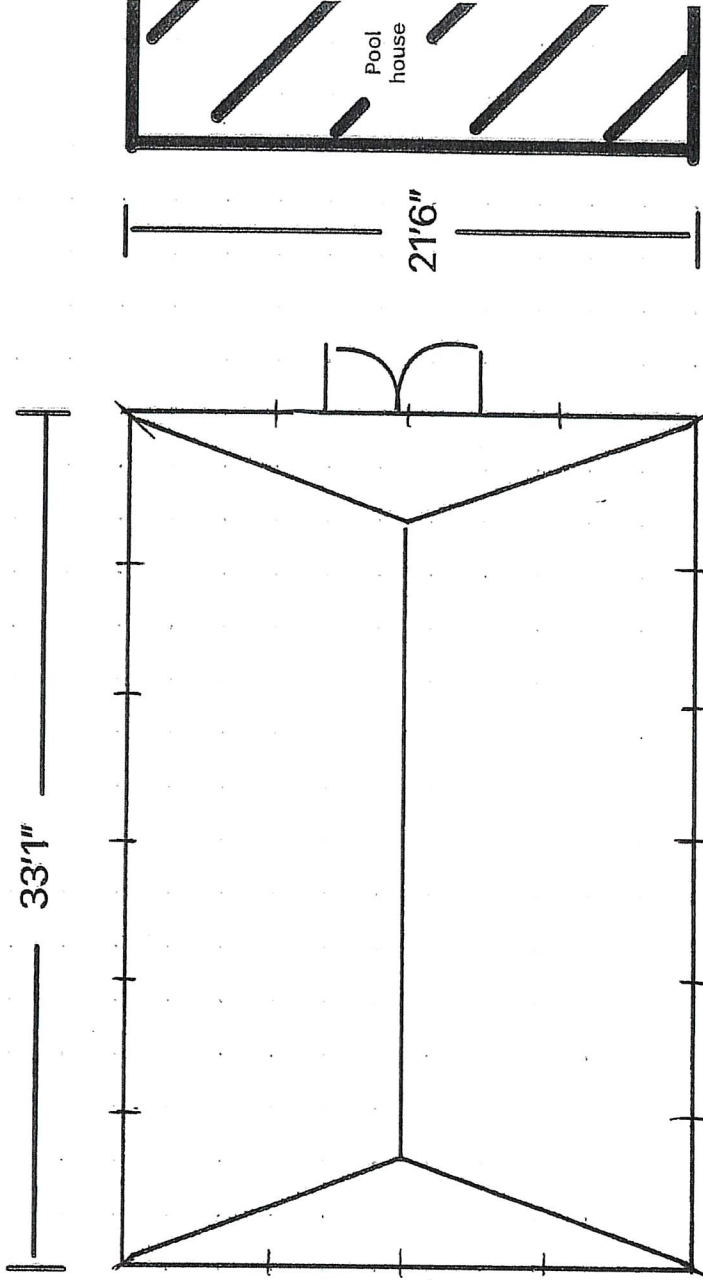
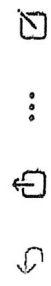




11:40AM Fri Apr 10

< Charles Lulei

50%



Install a 33' x 21'6"
 Gable Roof Aluminum
 Pool Enclosure, Free
 Standing!

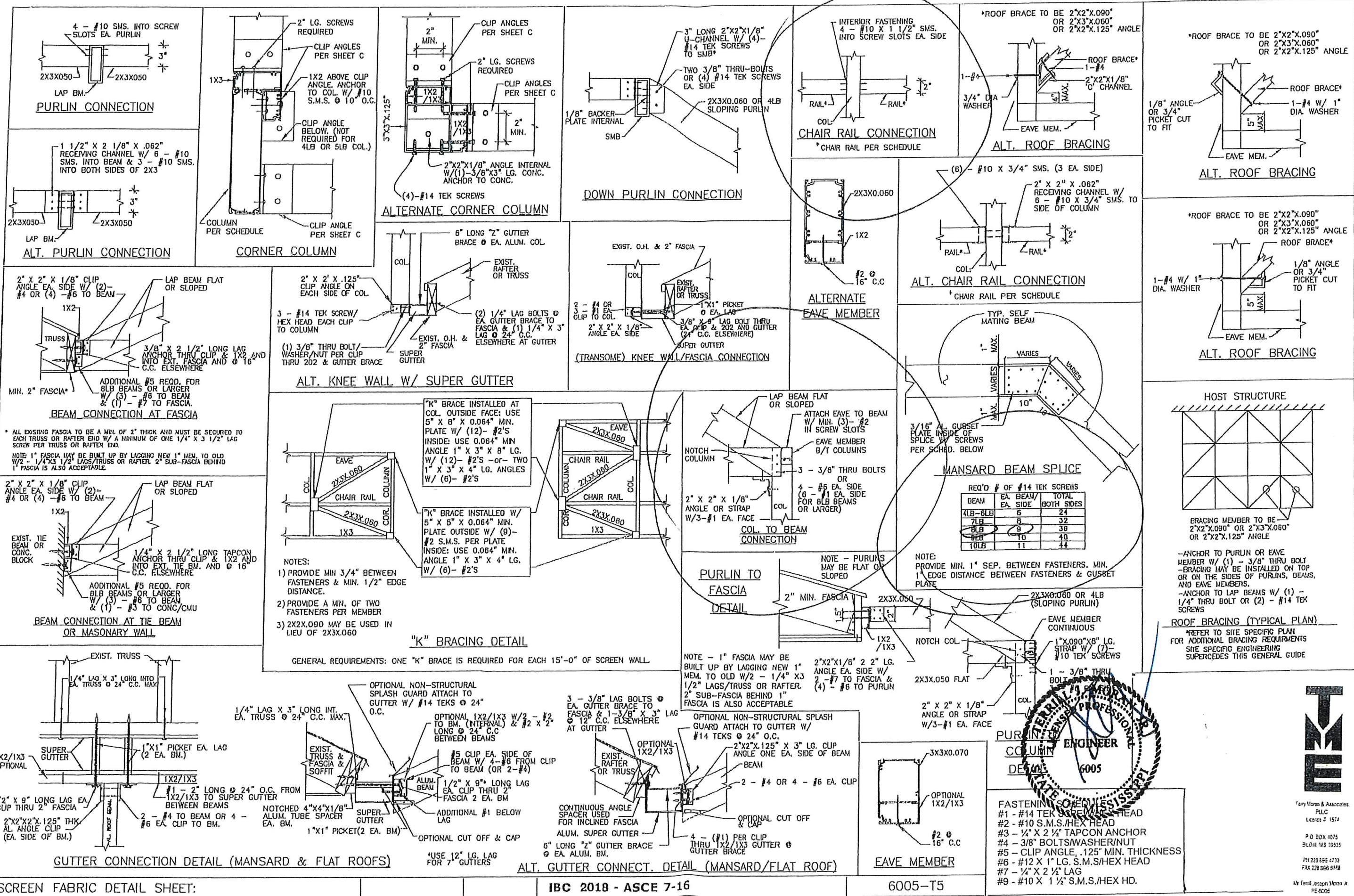
* See Engineering



150%



\$25,000

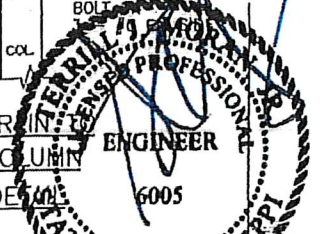


SCREEN FABRIC DETAIL SHEET:

IBC 2018 - ASCE 7-16

6005-T5

FASTENING SCHEDULE
 #1 - #14 TEK SCREWS/HEX HEAD
 #2 - #10 S.M.S./HEX HEAD
 #3 - 1/2" X 2 1/2" TAPCON ANCHOR
 #4 - 3/8" BOLTS/WASHER/NUT
 #5 - CLIP ANGLE, .125" MIN. THICKNESS
 #6 - #12 X 1" LG. S.M.S./HEX HEAD
 #7 - 1/2" X 2 1/2" LG.
 #9 - #10 X 1 1/2" S.M.S./HEX HD.



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REQ'D # OF #14 TEK SCREWS

BEAM	EA. BEAM/EA. SIDE	TOTAL BOTH SIDES
4LB-6LB	6	24
7LB	8	32
8LB	9	36
9LB	10	40
10LB	11	44

ROOF BRACING (TYPICAL PLAN)
 *REFER TO SITE SPECIFIC PLAN FOR ADDITIONAL BRACING REQUIREMENTS. SITE SPECIFIC ENGINEERING SUPERCEDES THIS GENERAL GUIDE.

NOTE: PROVIDE MIN. 1" SEP. BETWEEN FASTENERS. MIN. 1" EDGE DISTANCE BETWEEN FASTENERS & GUSSET PLATE.

NOTE - PURLINS MAY BE FLAT OR SLOPED

NOTE - 1" FASCIA MAY BE BUILT UP BY LAGGING NEW 1" MED. TO OLD W/2 - 1/4" X 3 1/2" LAGS/TRUSS OR RAFTER. 2" SUB-FASCIA BEHIND 1" FASCIA IS ALSO ACCEPTABLE.

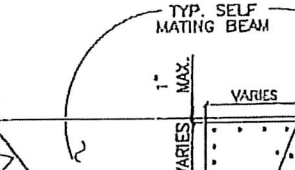
- NOTES:**
- 1) PROVIDE MIN 3/4" BETWEEN FASTENERS & MIN. 1/2" EDGE DISTANCE.
 - 2) PROVIDE A MIN. OF TWO FASTENERS PER MEMBER
 - 3) 2X2X.090 MAY BE USED IN LIEU OF 2X3X.060

GENERAL REQUIREMENTS: ONE "K" BRACE IS REQUIRED FOR EACH 15'-0" OF SCREEN WALL

* ALL EXISTING FASCIA TO BE A MIN. OF 2" THICK AND MUST BE SECURED TO EACH TRUSS OR RAFTER END W/ A MINIMUM OF ONE 1/4" X 3 1/2" LAG SCREW PER TRUSS OR RAFTER END.
 NOTE: 1" FASCIA MAY BE BUILT UP BY LAGGING NEW 1" MED. TO OLD W/2 - 1/4" X 3 1/2" LAGS/TRUSS OR RAFTER. 2" SUB-FASCIA BEHIND 1" FASCIA IS ALSO ACCEPTABLE.

BRACING MEMBER TO BE 2"x2"x.090" OR 2"x3"x.060" OR 2"x2"x.125" ANGLE

-ANCHOR TO PURLIN OR EAVE MEMBER W/ (1) - 3/8" THRU BOLT - BRACING MAY BE INSTALLED ON TOP OR ON THE SIDES OF PURLINS, BEAMS, AND EAVE MEMBERS.
 -ANCHOR TO LAP BEAMS W/ (1) - 1/4" THRU BOLT OR (2) - #14 TEK SCREWS



TYP. SELF-MATING BEAM

ALTERNATE EAVE MEMBER

(TRANSOME) KNEE WALL/FASCIA CONNECTION

ALT. KNEE WALL W/ SUPER GUTTER

BEAM CONNECTION AT FASCIA

BEAM CONNECTION AT TIE BEAM OR MASONRY WALL

GUTTER CONNECTION DETAIL (MANSARD & FLAT ROOFS)

ALT. GUTTER CONNECT. DETAIL (MANSARD/FLAT ROOF)

EAVE MEMBER

MANSARD BEAM SPLICE

PURLIN TO FASCIA DETAIL

COL. TO BEAM CONNECTION

ALTERNATE EAVE MEMBER

CHAIR RAIL CONNECTION

DOWN PURLIN CONNECTION

ALTERNATE CORNER COLUMN

CORNER COLUMN

ALT. PURLIN CONNECTION

PURLIN CONNECTION

ALL CALCULATIONS ARE BASED ON THE FOLLOWING CRITERIA:

- FOR SCREENING WITH 18X14 MESH SPANS ARE BASED ON LOADS FROM TABLE 2002.4. LOADS ARE APPLIED SIMULTANEOUSLY TO WALL & ROOF
- 5.3 PFP ROOF 1 TO PFP WALL COMBINED LOAD & 250% NON-COMBINED LOAD
- WIND LOAD = 100 M.P.H. EXPOSURE B CATEGORY I
- DESIGN MERIT 1/40 DEFLECTION REQUIREMENTS

CHAIN RAIL SCHEDULE

MAXIMUM RAIL SPAN					
RAIL	2.0'	3.0'	4.0'	5.0'	6.0'
20X200	3.0	4.0	5.0	6.0	7.0
22X200	4.0	5.0	6.0	7.0	8.0
24X200	5.0	6.0	7.0	8.0	9.0
26X200	6.0	7.0	8.0	9.0	10.0
28X200	7.0	8.0	9.0	10.0	11.0

LOAD FACTOR = 1/2 THE DISTANCE TO CHAIN RAIL OR GROUND BUT NOT 1/2 THE DISTANCE TO CHAIN RAIL OR GROUND ABOVE.

SCREEN BEAM SCHEDULES WITH MANSARD ROOF

COLUMN SPACING	W/10' COLUMN HEIGHT					W/12' COLUMN HEIGHT					W/16' COLUMN HEIGHT					COLUMN SPACING
	10'	12'	14'	16'	18'	12'	14'	16'	18'	20'	16'	18'	20'	22'	24'	
10'	10.0	12.0	14.0	16.0	18.0	12.0	14.0	16.0	18.0	20.0	16.0	18.0	20.0	22.0	24.0	
12'	12.0	14.0	16.0	18.0	20.0	14.0	16.0	18.0	20.0	22.0	18.0	20.0	22.0	24.0	26.0	
14'	14.0	16.0	18.0	20.0	22.0	16.0	18.0	20.0	22.0	24.0	20.0	22.0	24.0	26.0	28.0	
16'	16.0	18.0	20.0	22.0	24.0	18.0	20.0	22.0	24.0	26.0	22.0	24.0	26.0	28.0	30.0	
18'	18.0	20.0	22.0	24.0	26.0	20.0	22.0	24.0	26.0	28.0	24.0	26.0	28.0	30.0	32.0	

CARRY BEAM SCHEDULE FOR SCREEN ROOFS

BEAM	MAXIMUM BEAM SPAN										BEAM LENGTH B/T COLUMNS	
	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'		
10B	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.6	10.4	11.2	12.0
12B	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.6	10.4	11.2	12.0	12.8
14B	4.8	5.6	6.4	7.2	8.0	8.8	9.6	10.4	11.2	12.0	12.8	13.6
16B	5.6	6.4	7.2	8.0	8.8	9.6	10.4	11.2	12.0	12.8	13.6	14.4
18B	6.4	7.2	8.0	8.8	9.6	10.4	11.2	12.0	12.8	13.6	14.4	15.2
20B	7.2	8.0	8.8	9.6	10.4	11.2	12.0	12.8	13.6	14.4	15.2	16.0

LOAD FACTOR = 1/2 THE SUM OF 1/2 THE SPAN OF THE LONGER MEMBER ATTACHED TO EACH END OF THE CARRY BEAM. 20X200 MAY BE USED IN LIEU OF 18B. 22X200 MAY BE USED IN LIEU OF 20B. NOTE SPANS ARE BASED ON TOP OF CARRY BEAM LIVE LOAD.

SCREEN BEAM SCHEDULES WITH FLAT ROOF

UP TO 10' COLUMN HEIGHT					UP TO 20' COLUMN HEIGHT				
10'	12'	14'	16'	18'	20'	22'	24'	26'	28'
10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0
16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0

BEAM PROPERTIES				
MARK	TYPE	SIZE	THICKNESS	
4B	LAR BEAM	4.0	0.300	0.040
6B	LAR BEAM	6.0	0.340	0.050
8B	LAR BEAM	8.0	0.380	0.060
10B	LAR BEAM	10.0	0.420	0.070
12B	LAR BEAM	12.0	0.460	0.080
14B	LAR BEAM	14.0	0.500	0.090
16B	LAR BEAM	16.0	0.540	0.100
18B	LAR BEAM	18.0	0.580	0.110
20B	LAR BEAM	20.0	0.620	0.120

RAVE RAIL SCHEDULE

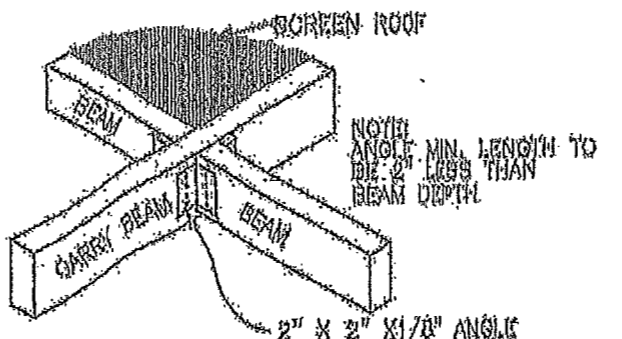
MAXIMUM RAVE SPAN				
RAVE	2.0'	3.0'	4.0'	5.0'
20X200	3.0	4.0	5.0	6.0
22X200	4.0	5.0	6.0	7.0
24X200	5.0	6.0	7.0	8.0
26X200	6.0	7.0	8.0	9.0
28X200	7.0	8.0	9.0	10.0

LOAD FACTOR = 1/2 THE DISTANCE TO CHAIN RAIL BUT NOT 1/2 THE RISE OF THE ROOF ABOVE.

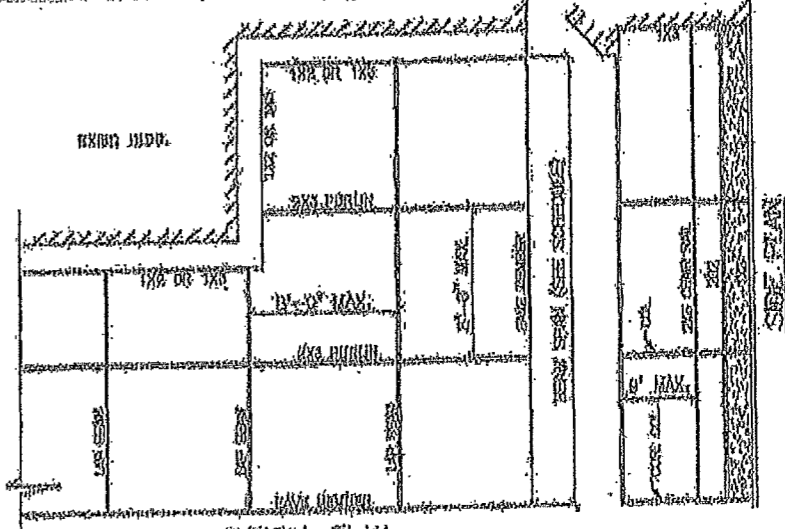
COLUMN SCHEDULES WITH SCREEN FABRIC ROOF

MAXIMUM COLUMN HEIGHT W/8' ROOF BEAM										MAXIMUM COLUMN HEIGHT W/10' ROOF BEAM									
8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'
10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0
14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0
18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0

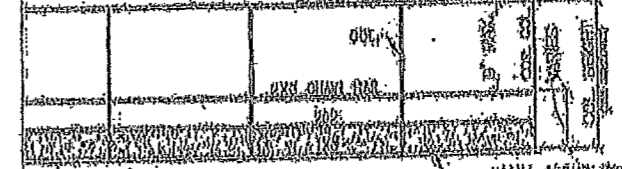
FOR LONGER SPANS SEE SITE SPECIFIC ENGINEERING. NOTE THIS TABLE APPLIES TO BOTH BEARING AND NON-BEARING WALLS FOR HORIZONTAL WIND LOADS CONTROL IN DESIGN. 20X200 MAY BE USED IN LIEU OF 18B. 22X200 MAY BE USED IN LIEU OF 20B.



CARRY BEAM CONN. DETAIL



TYPICAL PLAN



ELEVATION

ALUM. ROOFPLATE OPTIONAL. USE 20X 200 & ATTACH ROOFPLATE W/ 1-1/2" @ 24" O/C (TYP)



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- *ALL CALCULATIONS ARE BASED ON 6005-T5 ALUMINUM ALLOY
- *1/3 STRESS REDUCTION NOT USED IN CALCULATIONS
- *LINEAR INTERPOLATION BETWEEN COLUMN SPACING IS ALLOWED

