

- NOTES

1. DESIGNED AND TESTED IN ACCORDANCE WITH WIND LOAD PROVISIONS OF THE FLORIDA BUILDING CODE AND INTERNATIONAL BUILDING CODE. PROFESSIONAL ENGINEER'S SEAL PROVIDED ONLY FOR VERIFICATION OF WIND LOAD CONSTRUCTION DETAILS.

2. PRESSURES LISTED AS POSITIVE/NEGATIVE (DESIGN).

3. SECTION HEIGHTS MAY VARY TO CREATE VARIOUS DOOR HEIGHTS, 24" MAXIMUM SECTION HEIGHT.

4. LIFT CLEARANCE OR FULL VERTICAL TRACK MAY ALSO BE USED.

5. LOW HEADROOM TRACK MAY BE USED WITH EITHER DRAWBAR OPERATOR OR LOCK.

5. FASTENING METHODS (TRACK TO WALL), SPACING BASE ON BRACKET SPACING (SEE CHART BELOW):
- A. JAMB BRACKETS (TYP WOOD JAMBS) STYLE TRACK-- 5/16" x 1 3/4" LAG BOLT, OR EQUIVALENT.

B. ALTERNATE ANGLE MOUNT--SEE SHEET 2

6. FOR COMMERCIAL HARDWARE DETAILS SEE DRAWING 408717.

7. STRUTS TO BE ATTACHED ± 3" FROM CENTER LINE OF SECTION.

8. MULTIPLE ALUMINUM FULL VIEW OR GLAZED SECTIONS MAY REPLACE ANY SECTION EXCEPT TOP AND BOTTOM SECTIONS.

9. -ALUMINUM FULL VIEW SECTIONS TO BE INSTALLED WITH MIN 1/8 DSB GLAZING AND ALUMINUM RETAINERS TO MEET THE LISTED STATIC DESIGN PRESSURES. -MAX WIDTH 20 FT. FOR ALUMINUM FULL VIEW SECTIONS AT THE LISTED DESIGN PRESSURES. -GLAZING FRAME OPTION-1/8" MIN DSB GLAZING MEETS UNIFORM STATIC DESIGN PRESSURES LISTED ON THIS DRAWING. GLAZING FRAME SHALL HAVE MAX HEIGHT OF 7' AND MAX LENGTH OF 24'. -GLAZING OPTIONS ARE NOT IMPACT RESISTANT AND DO NOT MEET THE REQUIREMENTS FOR WIND BORNE DEBRIS REGIONS. -STRUTS ON FULL VIEW OF GLAZED SECTION(S) TO MATCH THE STRUTS ON THE ADJACENT STEEL SECTIONS.

9. STRUT OR Z STRUT INSTALLATION:

A. FOR STRUTS ONLY-- USE ONE SCREW (P/N 605879-0002) ON BOTH SIDES OF STRUT AT EACH END STILE AND CENTER STILE.

B. FOR Z STRUT (P/N 407756-XXXX) OR 6" C-CHANNEL (410819-XXXXXX).

- USE 1 SCREW (P/N 605879-0002) AT EACH END STILE AND CENTER STILE TO ATTACH.

- ATTACH A STRUT STRAP AT EVERY HINGE.

- USE ONE SCREW AT THE TOP AND BOTTOM RAIL OF THE SECTION AND ONE SCREW THROUGH Z STRUT (ATTACH 6" TALL C-CHANNEL TO STRUT WITH 2X SCREWS PER STRAP LOCATION).

10. REFERENCE WINDLOAD SPECIFICATION CHART FOR END STILE REQUIREMENTS (SEE DETAIL E).

- WHEN STANDARD SECTION WITH DOUBLE END STILE.

- A = 1.00" AND B = 6.5"

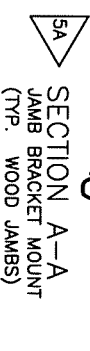
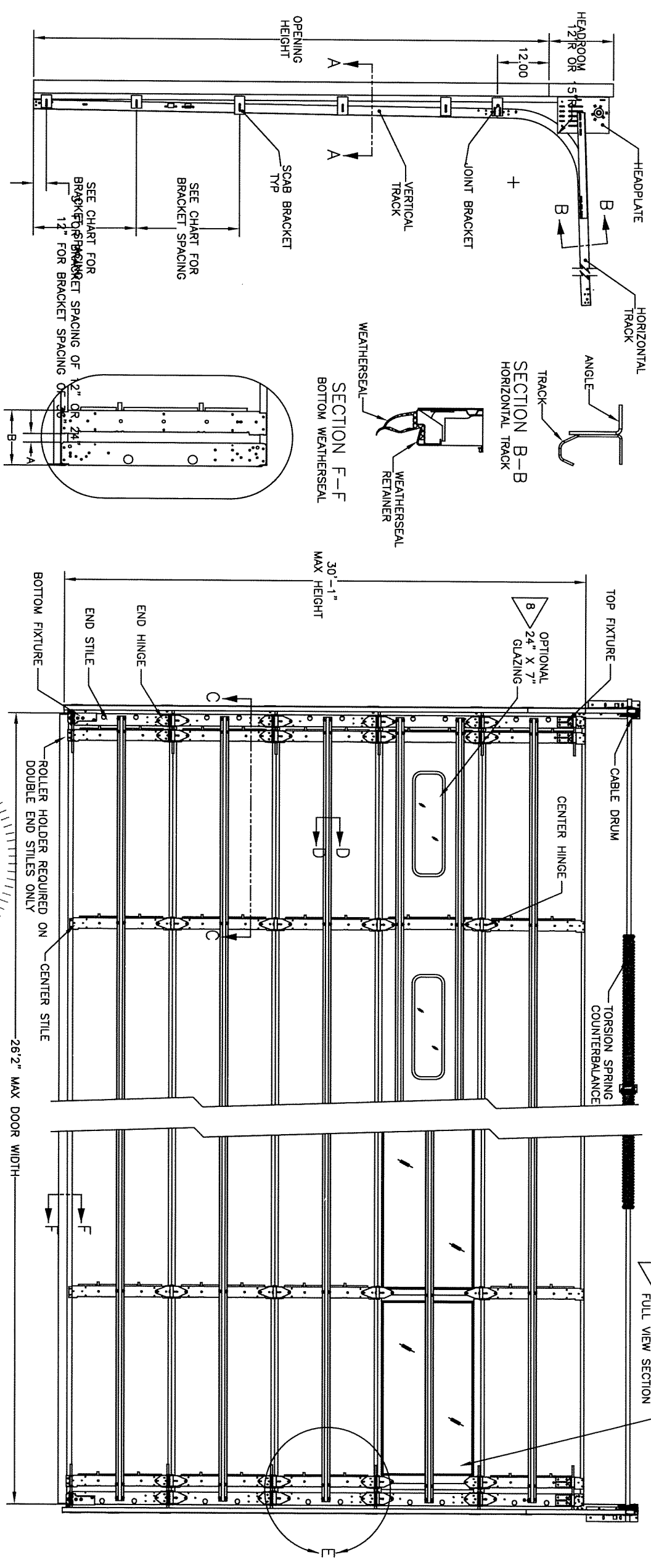
- WHEN FULL VISION WITH DOUBLE END STILE.

- A = 1.00" AND B = 6.5"

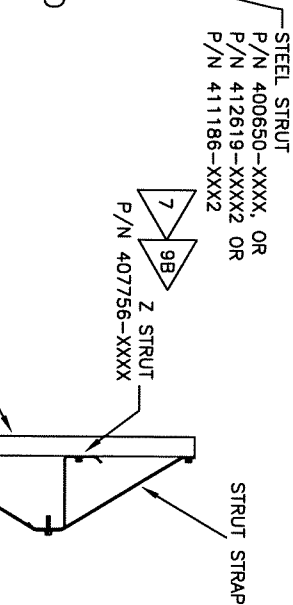
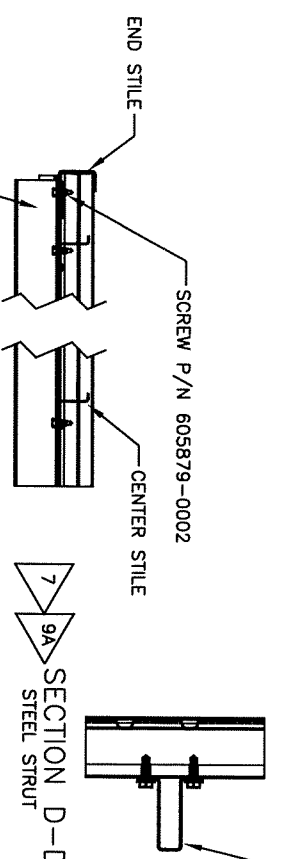
11. THE 6" TALL 16GA. Z(407756-0001) OR (2) HS-3 MAY BE SUBSTITUTED FOR 6" 16GA (410819).

12. 2" 20GA STEEL STRUTS (412619-XXXX2) MAY BE SUBSTITUTED FOR HS-1 (400650-0001).

13. 3" 20GA STEEL STRUTS (411186-XXXX2) MAY BE SUBSTITUTED FOR HS-2 STRUTS (400650-0002).



SIDE ELEVATION OF TYPICAL COMMERCIAL TRACK



| STRUT   | THICK | HEIGHT |
|---------|-------|--------|
| HS-0    | 0.020 | 2.25   |
| HS-1    | 0.030 | 2.25   |
| HS-2    | 0.052 | 2.25   |
| HS-3    | 0.055 | 3.50   |
| 2" 20GA | 0.034 | 2.00   |
| 3" 20GA | 0.034 | 3.00   |

INTERIOR DOOR ELEVATION

| SERIES 416/418: 22/-22 PSF WINDLOAD |               |                  |            |             |           |                     |                     |                   |          |
|-------------------------------------|---------------|------------------|------------|-------------|-----------|---------------------|---------------------|-------------------|----------|
| DOOR WIDTH UP TO                    | End STILE QTY | Center STILE QTY | STRUT TYPE | ROLLER DIA. | STEM DIA. | BRACKET MAX SPACING | TRACK VERTICAL GAGE | JAMB LOAD (LB/FT) | HARDWARE |
| 8'2"                                | Single 1      | 0                | NONE       | 2"          | 7/16"     | 24"                 | 0.049"              | 90                | Standard |
| 10'2"                               | Single 2      | 0                | HS-1       | 2"          | 7/16"     | 24"                 | 0.049"              | 112               | Standard |
| 12'2"                               | Double 2      | 1                | HS-2       | 2"          | 7/16"     | 24"                 | 0.049"              | 134               | Standard |
| 14'2"                               | Double 3      | 1                | HS-3       | 2"          | 7/16"     | 24"                 | 0.049"              | 156               | Standard |
| 16'2"                               | Double 4      | 1                | HS-3       | 2"          | 7/16"     | 24"                 | 0.049"              | 178               | Standard |
| 18'2"                               | Double 5      | 1                | HS-3       | 2"          | 7/16"     | 24"                 | 0.068"              | 200               | Standard |
| 20'2"                               | Double 6      | 2                | HS-3       | 2"          | 7/16"     | 24"                 | 0.068"              | 222               | Standard |
| 22'2"                               | Double 8      | 2                | HS-3       | 2"          | 7/16"     | 24"                 | 0.068"              | 244               | Standard |
| 24'2"                               | Double 9      | 1                | HS-3       | 2"          | 7/16"     | 24"                 | 0.068"              | 266               | Standard |
| 26'2"                               | Double 9      | 1                | HS-3       | 2"          | 7/16"     | 24"                 | 0.068"              | 288               | Standard |

STATE OF FLORIDA

PROFESSIONAL ENGINEER

GORDON D. THOMAS

FL PE 46718

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DATE: 08/14/03

DESIGNED BY: C DURAN

DRAWN BY: T CLARK

CHECKED BY: L KRUPKE

DATE: 10/12/20

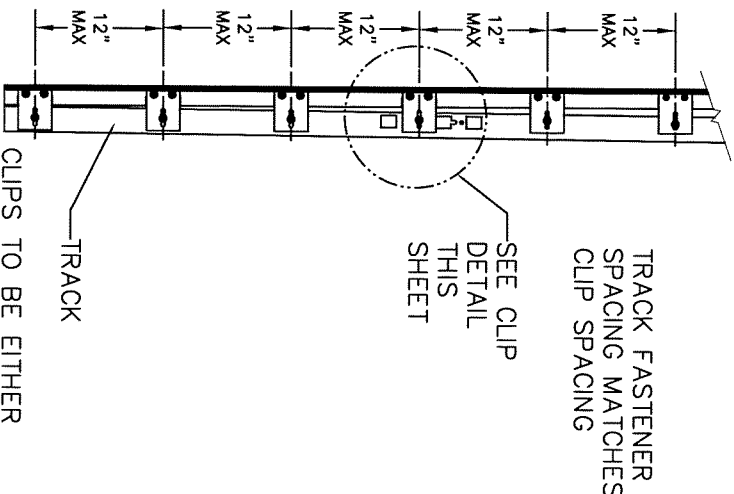
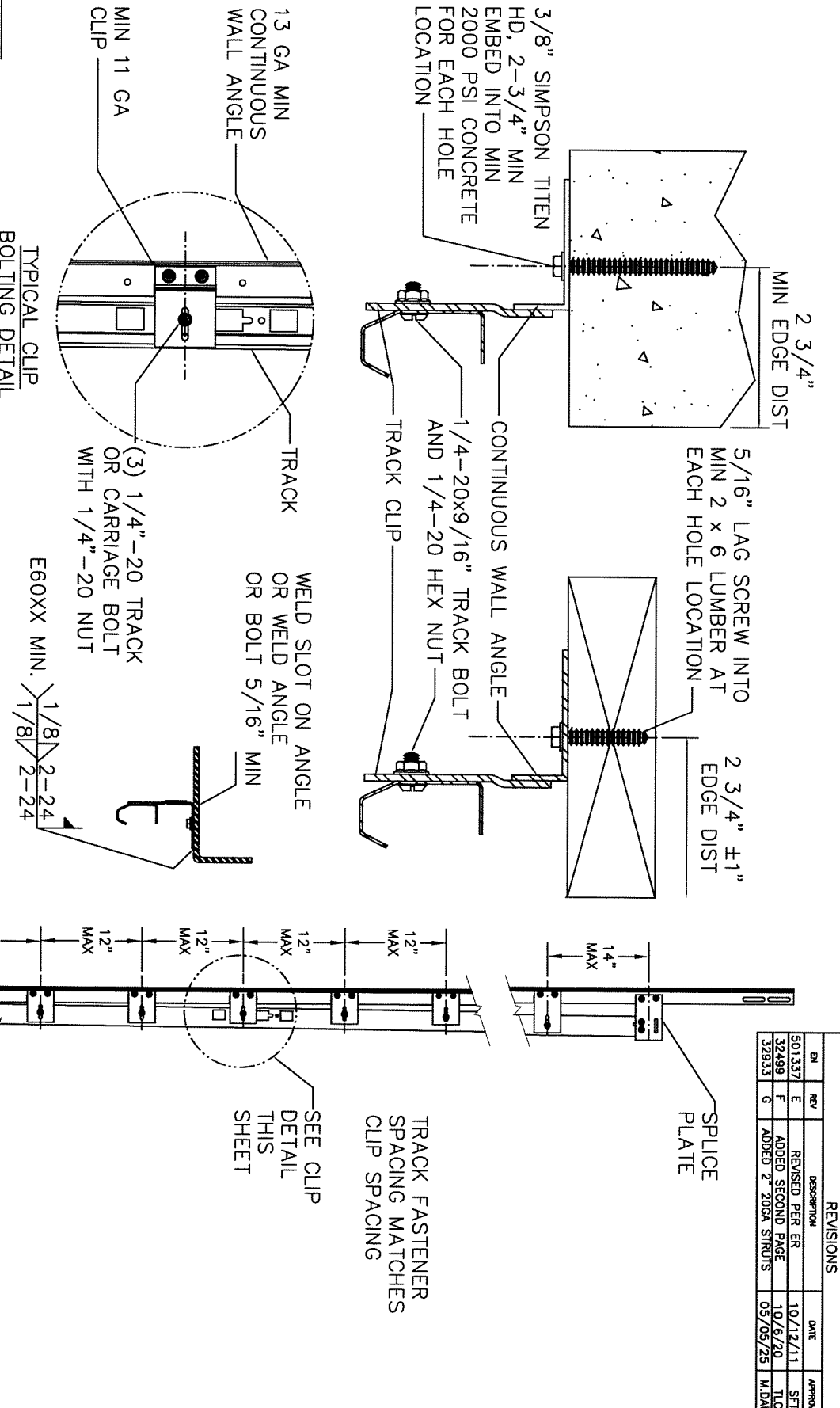
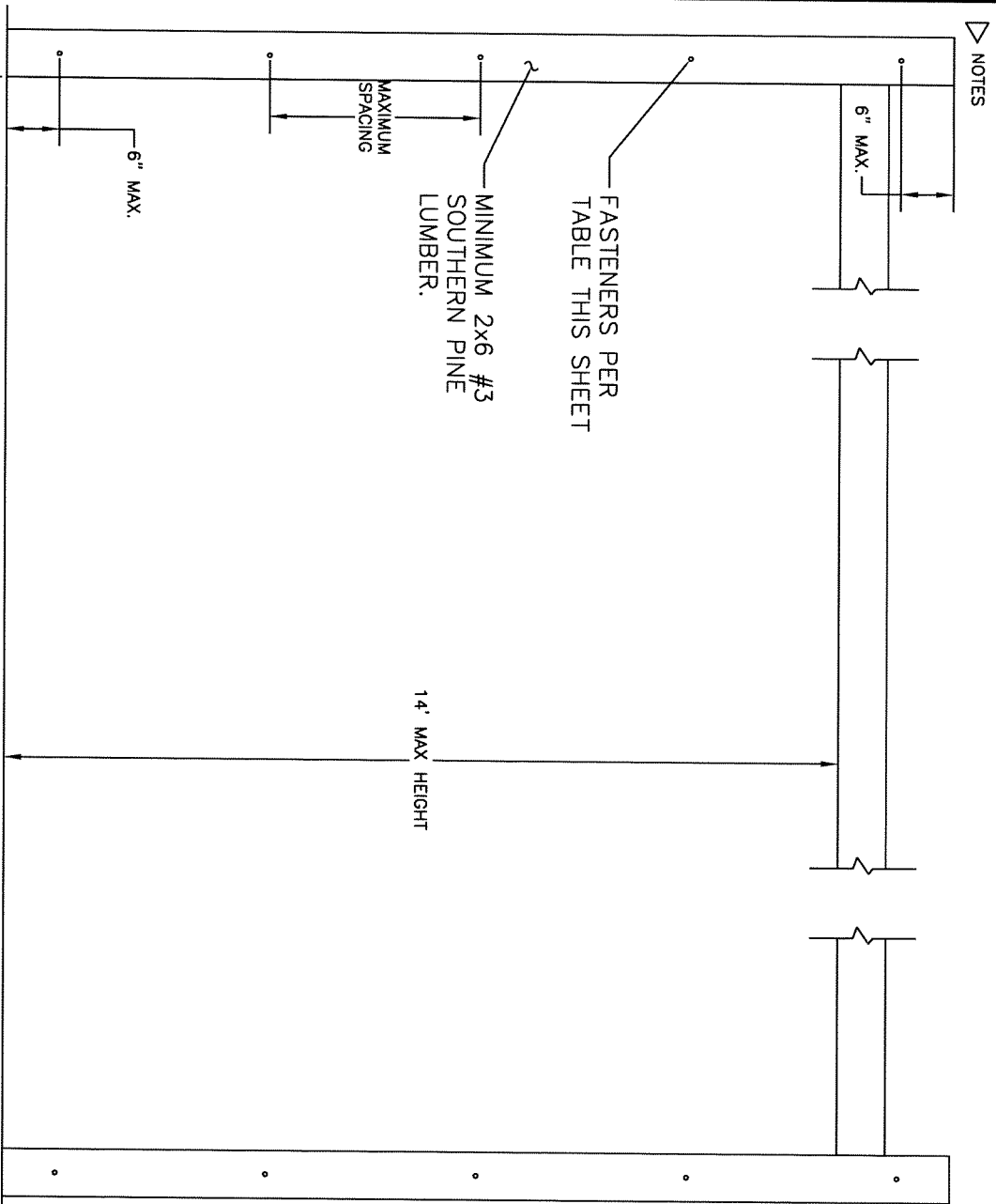
WINDLOAD: 416/418, 22/-22 PSF, 26'-2" MAX

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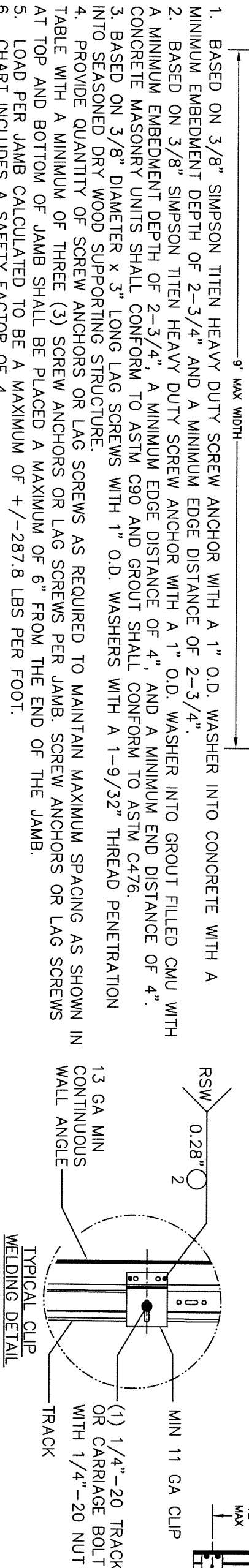
SCALE: N/A

SHEET: 1 OF 2

| REVISIONS |     |                      |          |        |
|-----------|-----|----------------------|----------|--------|
| DL        | REV | DESCRIPTION          | DATE     | APPROV |
| 501337    | E   | REVISED PER ER       | 10/12/11 | STC    |
| 32489     | F   | ADDED SECOND PAGE    | 10/6/20  | TLC    |
| 329331    | G   | ADDED 2" 20GA STRIPS | 05/05/25 | W.DAU  |



CLIPS TO BE EITHER BOLTED OR WELDED. SEE DETAILS THIS PAGE.



1. BASED ON 3/8" SIMPSON TITEN HEAVY DUTY SCREW ANCHOR WITH A 1" O.D. WASHER INTO CONCRETE WITH A MINIMUM EMBEDMENT DEPTH OF 2-3/4" AND A MINIMUM EDGE DISTANCE OF 2-3/4".
2. BASED ON 3/8" SIMPSON TITEN HEAVY DUTY SCREW ANCHOR WITH A 1" O.D. WASHER INTO GROUT FILLED CMU WITH A MINIMUM EMBEDMENT DEPTH OF 2-3/4", A MINIMUM EDGE DISTANCE OF 4", AND A MINIMUM END DISTANCE OF 4".
3. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND GROUT SHALL CONFORM TO ASTM C476.
3. BASED ON 3/8" DIAMETER x 3" LONG LAG SCREWS WITH 1" O.D. WASHERS WITH A 1-9/32" THREAD PENETRATION INTO SEASONED DRY WOOD SUPPORTING STRUCTURE.
4. PROVIDE QUANTITY OF SCREW ANCHORS OR LAG SCREWS AS REQUIRED TO MAINTAIN MAXIMUM SPACING AS SHOWN IN TABLE WITH A MINIMUM OF THREE (3) SCREW ANCHORS OR LAG SCREWS PER JAMB. SCREW ANCHORS OR LAG SCREWS AT TOP AND BOTTOM OF JAMB SHALL BE PLACED A MAXIMUM OF 6" FROM THE END OF THE JAMB.
5. LOAD PER JAMB CALCULATED TO BE A MAXIMUM OF +/-287.8 LBS PER FOOT.
6. CHART INCLUDES A SAFETY FACTOR OF 4.
7. DOOR JAMB TO BE MINIMUM 2x6 NO. 3 SOUTHERN PINE LUMBER (MIN) MOUNTED DIRECTLY TO SUPPORT STRUCTURE.
8. DESIGN OF THE SUPPORT STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE LOADS LISTED IN NOTE 5.
9. SCREW ANCHORS OR LAG SCREWS SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

| MAX SPACING OF ANCHORS/SCREWS PER JAMB (IN)                                       |                                                                                           |                                            |  |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------|--|
| 3/8" SIMPSON TITEN HD SCREW ANCHOR TO MINIMUM 2000 PSI CONCRETE <sup>NOTE 1</sup> | 3/8" SIMPSON TITEN HD SCREW ANCHOR TO MINIMUM 2000 PSI GROUT FILLED CMU <sup>NOTE 2</sup> | 3/8" x 3" LONG LAG SCREW <sup>NOTE 3</sup> |  |
| 24                                                                                | 16                                                                                        | 24                                         |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |         |  |          |  |          |  |                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|--|----------|--|----------|--|------------------------|--|
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| TOLERANCES UNLESS OTHERWISE SPECIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | FINISH  |  | MATERIAL |  | DATE     |  | DRAWN BY: J. QIAN      |  |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | N/A     |  | N/A      |  | 3/27/20  |  | CHECKED BY: T. CLARK   |  |
| XX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | N/A     |  | N/A      |  | 10/12/20 |  | APPROVED BY: L. KRUPKE |  |
| XXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | N/A     |  | N/A      |  | 10/12/20 |  | 10/12/20               |  |
| MAX.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | EA      |  | N/A      |  | 10/12/20 |  | 10/12/20               |  |
| REF. DWG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | USED ON |  | N/A      |  | 10/12/20 |  | 10/12/20               |  |

