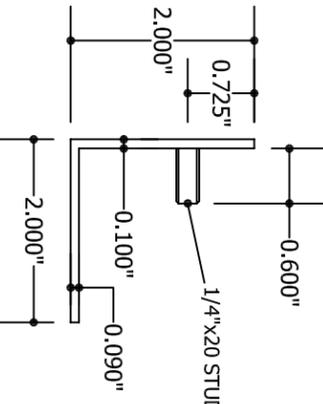
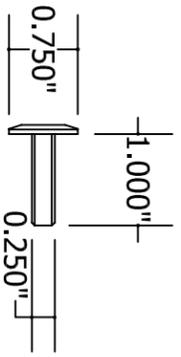


1 FULL PANEL PROFILE
 3" = 1'-0"
 (SEE GEN NOTE 7)

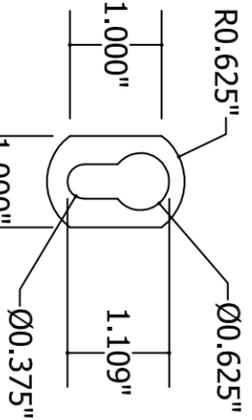
MOUNT WITH FASTENERS AND STUDS AT 6" O.C.



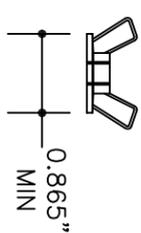
2 STUD ANGLE
 6" = 1'-0"



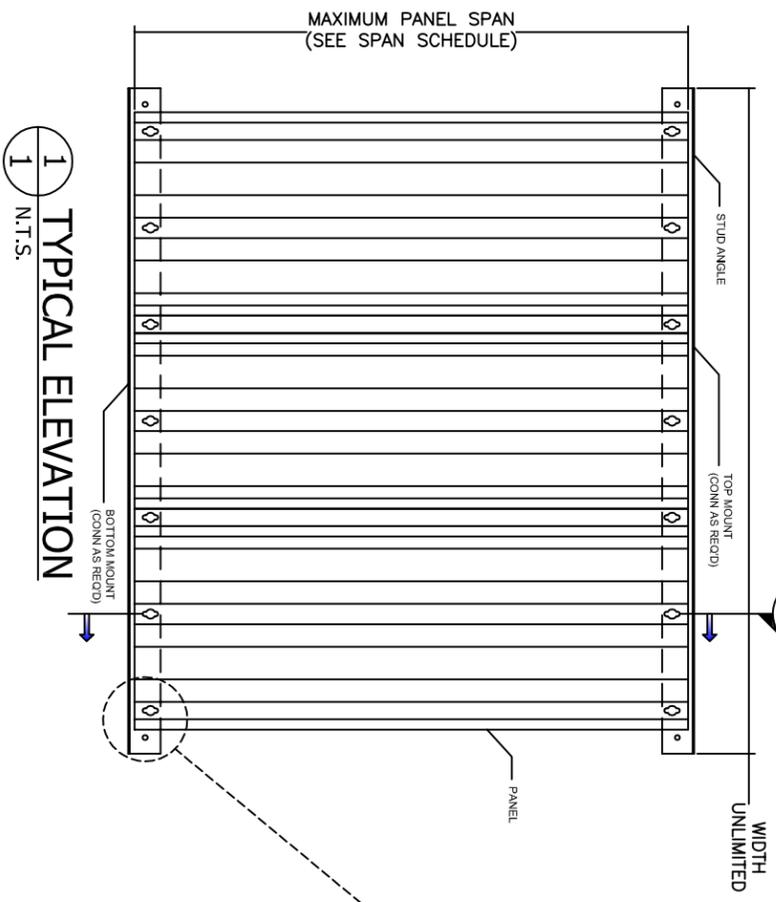
3 SIDEWALK SCREW
 6" = 1'-0"



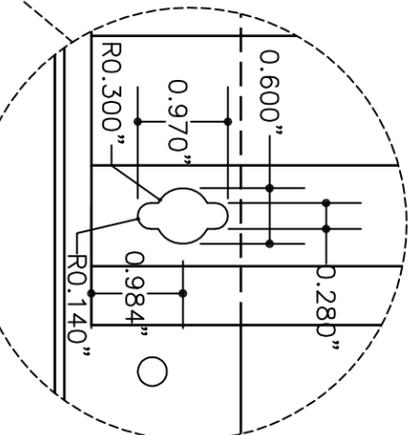
4 KEYHOLE WASHER
 6" = 1'-0"



5 WASHERED WINGNUT
 6" = 1'-0"



1 TYPICAL ELEVATION
 1 N.T.S.



2 KEYHOLE DETAIL
 1 N.T.S.

PANEL SHOULD BE ATTACHED WITH STUD TOWARDS INNERMOST POINT OF SLOT

GENERAL NOTES:

- 1) THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING/RESIDENTIAL CODE PER ASTM STANDARDS E330, E1886, & E1996. PANELS ARE APPROVED FOR USE IN AREAS GOVERNED BY THE 2006 IBC/IRC.
- 2) NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.
- 3) POSITIVE AND NEGATIVE DESIGN PRESSURES TO BE USED WITH THESE DRAWINGS SHALL BE DETERMINED BY OTHERS FOR SPECIFIC JOBS IN ACCORDANCE WITH THE GOVERNING CODE. WHEN CALCULATING PRESSURES PER ASCE 7-05, USE OF DIRECTIONALITY FACTOR Kq=0.85 IS NOT ALLOWED.
- 4) THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
- 5) CLEAR POLYCARBONATE STORM PANELS MAY VARY IN "COVERAGE" WIDTH UP TO RESPECTIVE MAXIMUM SHOWN HEREIN, PROVIDED THAT THE PANEL PROFILE HEIGHT BE MAINTAINED. PANELS SHALL BE MOUNTED WITH FASTENERS OR STUDS AT MAXIMUM SPACING SHOWN.
- 6) ALL POLYCARBONATE PANELS SHALL BE MANUFACTURED BY GUARDIAN BUILDING PRODUCTS, Inc.
- 7) THIS PRODUCT APPROVAL IS FOR THE USE OF CLEAR POLYCARBONATE PANELS ONLY. ALL POLYCARBONATE PANELS SHALL BE EXTRUDED WITH THICKNESS (+0.110" (+/- 0.010")) AND SHALL BE MANUFACTURED FROM POLYMERIC RESIN (UV STABILIZED). TYPICAL THERMOPLASTIC POLYMER TENSILE STRENGTH Fy=9.30 KSI, FLEXURAL STRENGTH Fbx=12.50 KSI, & FLEXURAL MODULUS IS 330.00 KSI.
- 8) ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.N.O.
- 9) PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER PANEL CONTAINING THE FOLLOWING:
 GUARDIAN BUILDING PRODUCTS
 GREER, SC
- 10) STORM PANELS HAVE BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS AND CORRESPONDING LOADS SHOWN HEREIN. REFERENCE AMERICAN TESTING LABORATORY (ATL OF BREVARD, NC) TEST REPORT # 0820-03-07
- 11) TOP & BOTTOM MOUNTING SECTIONS MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
- 12) USE OF KEYHOLE WASHERS IS MANDATORY IN CONJUNCTION WITH ANY MOUNTING CONDITION. HOLES MAY BE FIELD DRILLED 3/8" DIA. (OR 5/8" DIA. WITH KEYHOLE WASHER). WASHERED WINGNUTS SHALL HAVE 0.865" MINIMUM WASHER DIAMETER.
- 13) PER STITCHING SCHEDULE. SECURE PANELS WITH SIDEWALK SCREW AND WASHERED WINGNUT.
- 14) INSTALLATION FASTENERS ARE MIDWAY BETWEEN STUDS. STUD ANGLE IS ATTACHED TO EXISTING HOST STRUCTURE AND REMAINS THERE PERMANENTLY. THEN POLYCARBONATE PANEL IS INSTALLED OVER STUDS AND CAN BE REMOVED AFTER STORM.
- 15) STORM PANELS ARE NOT AIR PERMEABLE. THEREFORE, MINIMUM SPACING BETWEEN PANEL AND GLAZING IS NOT REQUIRED.

HR
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ALLEN N. REEVES, P.E.
 STRUCTURAL ENGINEER
 TEXAS LICENSE NO. 84141

12" EFFECTIVE WIDTH POLYCARBONATE STORM PANEL SYSTEM

GUARDIAN BUILDING PRODUCTS, INC.
 979 BATESVILLE ROAD
 GREER, S.C. 29651

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DATE: 10 OCT 2007

DRAWN: TRM
 CHKED: ANR

PROJECT NUMBER
 07090013

SHEET 1 OF 2