

NO.	DATE	REVISION
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ENGINEER: KCS
 DRAWN: TMH
 CHECKED: KCS

JOB NO. 1322100
 REF. NO. 1322100

SHEET 1 OF 1

DATE: 10-24-13

DESIGNED: KCS
 DRAWN: TMH
 CHECKED: KCS

ALUMINUM PATIO COVER
STANDARD DETAIL SHEET
ASSEMBLY DETAILS
MADDEN MFG. CO
331 DOGWOOD ROAD
LAKE OZARK, MISSOURI 65049

RAILING SECTIONS
SCALE: 3/8"=1'-0"

RAILING EXTRUSIONS
SCALE: 1/4"=1'-0"

WELDED FLOOR FLANGE
SCALE: 1/4"=1'-0"

END LOOP
SCALE: 1 1/2"=1'-0"

GRAB RAIL DETAIL
SCALE: 3/8"=1'-0"

RAIL END INSERT
SCALE: 3/8"=1'-0"

END BRACKET
SCALE: 3/8"=1'-0"

90° ELBOW
SCALE: 3/8"=1'-0"

BOTTOM PIVOT KIT STAIRS
SCALE: 3/8"=1'-0"

MID FOOT ALUMINUM RAIL
SCALE: 3/8"=1'-0"

POST CAP
SCALE: 3/8"=1'-0"

ADJUSTABLE ANGLE
SCALE: 3/8"=1'-0"

SPLICE FOR ADA PIPE
SCALE: 3/8"=1'-0"

ROUND PIPE
SCALE: 3/8"=1'-0"

POST
SCALE: 3/8"=1'-0"

STAIR LANDING OR WALL BRACKET
SCALE: 3/8"=1'-0"

WALL RETURN
SCALE: 3/8"=1'-0"

TOP PIVOT KIT STAIRS
SCALE: 3/8"=1'-0"

WALL RETURN
SCALE: 3/8"=1'-0"

TRADITIONAL BASE COVER
SCALE: N.T.S.

(OPTIONAL) DECORATIVE BASE COVER
SCALE: N.T.S.

FLOOR FLANGES
SCALE: 3/8"=1'-0"

DETAIL 'A' WALL CONNECTIONS
SCALE: 6"=1'-0"

DETAIL 'B' ALUMINUM CASTING
SCALE: 3/8"=1'-0"

DETAIL 'C' BOTTOM CHANNEL CONN.
SCALE: 6"=1'-0"

ALUMINUM STAIR RAILING DETAIL
SCALE: 1/2"=1'-0"

RAMP ALUMINUM RAILING DETAIL WITH OPTIONAL GRABRAIL
SCALE: 1/2"=1'-0"

ALUMINUM STRUCTURAL RAILING
SCALE: 1"=1'-0"

- NOTES:**
- THIS SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2009 INTERNATIONAL BUILDING CODE.
 - ALL FASTENERS TO BE #12 X 3/4" OR GREATER 2024-T4, 18-8 SERIES 300 NON-MAGNETIC STAINLESS STEEL OF CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH 5.1.1.C, SPECIFICATIONS FOR ALUMINUM STRUCTURES - SECTION 1, THE ALUMINUM ASSOCIATION, INC., AND APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
 - ALL EXTRUDED MEMBERS SHALL BE ALUMINUM ALLOY TYPE 6063-T6, 6061-T6, OR 6005-T5.
 - ALL CONCRETE AND EPOXY TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS. CONCRETE FOOTERS SHALL CONTAIN MINIMUM 0.1% FIBERMESH CONTENT PER CUBIC YARD. WOOD TO BE PRESSURE TREATED #2 SYP OR BETTER.
 - THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALUMINUM MEMBERS FROM DISSIMILAR METALS TO PREVENT ELECTROLYSIS.
 - ACQ LUMBER REQUIRES STAINLESS STEEL FASTENERS.
 - ELECTRICAL GROUND, WHEN REQUIRED, TO BE DESIGNED AND INSTALLED BY OTHERS.
 - ALL WORK AND MEASUREMENTS SHALL BE FIELD VERIFIED BY ANY INACCURATE INFORMATION HORNER AND SHIFFRIN, INC. SHALL BE NOTIFIED IMMEDIATELY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION. FABRICATION AND INSTALLATION OF MATERIALS SHOWN ON THIS SHEET. HORNER AND SHIFFRIN, INC., AND THE ENGINEER SEALING THIS DRAWING ARE RESPONSIBLE FOR THE STRUCTURAL DESIGN ONLY AS SHOWN ON THIS DRAWING. FABRICATION, ERECTION AND CONSTRUCTION PRACTICES ARE NOT THE RESPONSIBILITY OF HORNER AND SHIFFRIN, INC., OR THE ENGINEER SEALING THIS DRAWING.

HANDRAILS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT OF STAIRS (FOR ADA ONLY)
 SPACING OF PICKETS OR ORNAMENTAL RAILS TO NOT ALLOW PASSAGE OF A SPHERE 4" OR LARGER
 SETTING BLOCK MID FOOT O/C BETWEEN POSTS GLASS APP. AND 8" RAILING SECTIONS ATTACHED BY 3MWHM TAPE TOP AND BOTTOM
 NOTE: 8" GLASS RAILING PERMISSIBLE AT GRADE LEVEL ONLY
 ATTACH PICKETS TO RAIL WITH (2) #10 SMS (4) PER PICKET
 4-1/2" CORE DRILL, 3-1/2" DEEP, 3" FROM CONCRETE EDGE, FILLED WITH EPOXY (HILTI CY-150 OR EQUIV) OR HIGH STRENGTH GROUT, 3000 PSI MIN.
 RAILING MAY TERMINATE AT POST. SPACE FROM POST TO STRUCTURE TO RESIST A 4" SPHERE
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