

## SECTION 21- PROJECT WORKSHEETS

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**SECTION 21**  
**PROJECT WORKSHEETS**



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## PROJECT WORKSHEET INTRODUCTION

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For projects that require Strongwell to perform structural design engineering, certain information must be supplied.

To assist our customers in submitting the necessary data, "fill-in-the-blank" worksheets have been developed and are included in this section. Different structures have separate worksheets.

On the back of the building, platform, SAFRAIL™ and grating worksheets is a commentary designed to help the customer provide the required data. Such assistance is offered on the ladder, ladder cage and stair worksheets through helpful notes.



**PLATFORM WORKSHEET**

DATE QUOTE REQUIRED: \_\_\_\_\_

Bristol Division Fax: 276-645-8003  
 Chatfield Division Fax: 507-867-4031

**GEOGRAPHICAL INFORMATION**

1. \_\_\_\_\_  
(City, State AND Nearest Large City)
2. OUTDOORS  YES  NO  
(If No - Go to 9A)
3. LOCATED AT: GROUND LEVEL \_\_\_\_\_ or \_\_\_\_\_ FEET ABOVE
4. IN GENERALLY OPEN AND FLAT TERRAIN:  YES  NO  
(Extending 1/2 mile or more from site in any Quadrant)

**DESIGN CONDITIONS AND LOADS**

5. LOCAL BUILDING CODE APPLICABLE TO JOB: \_\_\_\_\_
6. WIND LOAD: \_\_\_\_\_ (MPH)
7. SEISMIC DESIGN CATAGORY: \_\_\_\_\_
8. SNOW LOAD: \_\_\_\_\_ (PSF) (Local Conditions May Control)
- 9A. LIVE LOAD: \_\_\_\_\_ (PSF) DEFL. CRITERIA
- 9B. CONC. LOADS: \_\_\_\_\_ (Barrels, Pallets, Equipment, Etc.)

**SERVICE AND QUOTING REQUIREMENTS**

10. CORROSIVES: \_\_\_\_\_
11. TEMP \_\_\_\_\_ (°F or AMBIENT)
12. EXTREN® SERIES: \_\_\_\_\_ STD COLOR \_\_\_\_\_ OTHER \_\_\_\_\_
13. HARDWARE: FIBREBOLT \_\_\_\_\_ 304SS \_\_\_\_\_ 316SS \_\_\_\_\_ OTHER \_\_\_\_\_
14. HANDRAIL:  YES (USE HANDRAIL WORKSHEET)  NO

**INFORMATION TO SHOW: PLAN VIEW OF PLATFORM (WIDTH, LENGTH, ETC.); HEIGHT ABOVE FLOOR AND/OR GRADE; HANDRAILS SHOWN IN PLANS AS OBSTRUCTIONS/ INTERFERENCES; LOCATION OF CONCENTRATED LOADS; TYPE OF GRATING (IF KNOWN), ETC. USE EXTRA SHEETS AS REQUIRED.**

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## PLATFORM WORKSHEET COMMENTARY

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### GEOGRAPHICAL INFORMATION

1. **CITY AND STATE** and **NEAREST LARGE CITY** is important because location may control wind loads, snow loads, earthquake criteria, etc. Building Code maps usually show major metropolitan cities so **NEAREST LARGE CITY** is important if actual site location is remote.
2. Platforms sheltered or inside other structures (**INDOORS**) will not require wind or snow loads. This answer may be apparent from specifications or drawings, but not so apparent from a telephone request for quote. Go to 9A if **INDOORS**.
3. Platforms outdoors and **ABOVE GRADE** (like on buildings) will have larger gust factors for wind conditions.
4. Platforms in **OPEN AND FLAT TERRAIN** support **HIGHER** wind loads and **LOWER** snow loads. Platforms can be designed for worst case, but may be conservative and unnecessarily uneconomical.

### DESIGN CONDITIONS AND LOADS

5. Building codes may vary by locality. The IBC (International Building Code) is becoming the standard, however, other applicable building codes may be BOCA, SBC, ANSI (now ASCE-7) or a local (city or state) building code. All design information can be easily obtained except local building code information. Customer should provide local code information either with a copy of the code or supplying values 6 thru 9.
6. **WIND LOAD** is usually given in MPH (miles per hour).
7. **SEISMIC DESIGN CATEGORY** is to be designated. If unknown, design will default to ASCE-7.
8. **SNOW LOAD** is given in PSF (pounds per square foot). Local conditions may govern in mountain regions, the west coast through the Rocky Mountain states and the East coast, North of Massachusetts.
- 9A. **LIVE LOAD** is usually given in PSF (pounds per square foot). Typical design values for platforms are:
  - **ACCESS PLATFORM** (1-3 people - limited use) — 50 PSF
  - **OPERATING PLATFORM** (1-3 people - constant) — 75 PSF
  - **WORK PLATFORM** (men with tools, portable equipment) — 100 PSF**DEFLECTION CRITERIA** is typically:
  - Specified as 1/4" for the grating with **100 PSF LIVE LOAD** (NOT necessarily the **PLATFORM DESIGN LIVE LOAD**)
  - Specified as L/180 to L/360 for structural members (span in inches divided by 180 to 360, respectively)
- 9B. **CONCENTRATED LOADS** are **ADDITIONAL TO LIVE LOAD** and may be permanent equipment, barrels or drums of chemicals, pallets of materials, boxes, etc. Obtain these LOAD in LBS. and possibly an area over which they act (i.e. pallets 4'x4' weighing 4,000 lbs. ea.)

### SERVICE AND QUOTING REQUIREMENTS

- 10-11. **CORROSIVES AND TEMPERATURE** may dictate **EXTREN®** requirements.
12. **EXTREN® SERIES** may be specified. **STANDARD COLOR** (YES or NO) or **OTHER** color are also needed.
13. **HARDWARE** will be bolts for structurals, grating clips and bolts, etc. **SPECIFY** as necessary.

**SAFRAIL™ WORKSHEET**

DATE QUOTE REQUIRED: \_\_\_\_\_  Bristol Division Fax: 276-645-8003  
 Chatfield Division Fax: 507-867-4031

**GEOGRAPHICAL INFORMATION**

1. \_\_\_\_\_  
(City, State AND Nearest Large City)

2. OUTDOORS:  YES (UV Coating - Standard)  NO

**DESIGN CONDITIONS AND LOADS**

3. SAFRAIL™ WILL MEET: 200# ANY DIRECTION ON POST OR TOP RAIL  
50#/LF HORIZONTALLY APPLIED TO TOP RAIL

OTHER REQUIREMENTS: \_\_\_\_\_

**SERVICE AND QUOTING REQUIREMENTS**

4. CORROSIVES: \_\_\_\_\_ 5. TEMP \_\_\_\_\_ (°F or AMBIENT)

6. RESIN: POLYESTER (Standard) \_\_\_\_\_ STANDARD COLOR (Yellow) (Gray) \_\_\_\_\_  
VINYL ESTER (Minimum Required) \_\_\_\_\_  
OTHER (Call) \_\_\_\_\_

7A. SQUARE TUBE  ROUND TUBE  CUSTOM (attach sketch)

7B. STANDARD 2 RAIL WITH TOE PLATE:  YES  NO  
OR 3 RAIL \_\_\_\_\_ 4 RAIL \_\_\_\_\_ 5 RAIL \_\_\_\_\_ TOEPLATE \_\_\_\_\_

8. MOUNTING HARDWARE: 316SS \_\_\_\_\_ OTHER \_\_\_\_\_

9. TYPE OF POST ASSEMBLY:  
BASE MOUNTED \_\_\_\_\_ POCKET MOUNTED \_\_\_\_\_ SIDE MOUNTED \_\_\_\_\_

10. POST SPACING 3 FT. ON CENTER \_\_\_\_\_ 5 FT. ON CENTER \_\_\_\_\_  
4 FT. ON CENTER \_\_\_\_\_ 6 FT. ON CENTER \_\_\_\_\_

**INFORMATION TO SHOW: PLAN VIEW OF PLATFORM (WIDTH, LENGTH, ETC.); HEIGHT ABOVE FLOOR AND/OR GRADE; HANDRAILS SHOWN IN PLANS AS OBSTRUCTIONS/ INTERFERENCES; LOCATION OF CONCENTRATED LOADS; TYPE OF GRATING (IF KNOWN), ETC. USE EXTRA SHEETS AS REQUIRED.**

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## SAFRAIL™ WORKSHEET COMMENTARY

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### GEOGRAPHICAL INFORMATION

1. **CITY AND STATE** and **NEAREST LARGE CITY** is important because location may control code to be used for design.
2. Standard SAFRAIL™ is UV coated.

### DESIGN CONDITIONS AND LOADS

3. Standard SAFRAIL™ will meet most codes for loading - OSHA, BOCA, UBC, etc. Other codes (for specific contract requirement, etc.) may require higher loads or have specific deflection requirements.

### SERVICE AND QUOTING REQUIREMENTS

- 4-5. **CORROSIVES AND TEMPERATURE** may dictate resin requirements.
6. Standard color is safety yellow or gray. Standard resin is polyester. Contact Strongwell for other resin systems and other colors.
7. Standard SAFRAIL™ is a two-rail system with toeplate. Note that toeplate is not usually required where a platform or walkway is less than 4' above the adjacent floor or people cannot pass below (like SAFRAIL™ around a clarifier).
8. Mounting hardware is supplied, if both structures and rail are furnished by Strongwell. Mounting hardware is 316 S.S. bolts unless otherwise noted. Lengths to be specified.
- 9-10. These are required to determine accurate pricing for quantity and type of material (base plates are more expensive). Post spacing determines the amount of material required per lineal foot.

### DRAWINGS AND SKETCHES OF SAFRAIL™

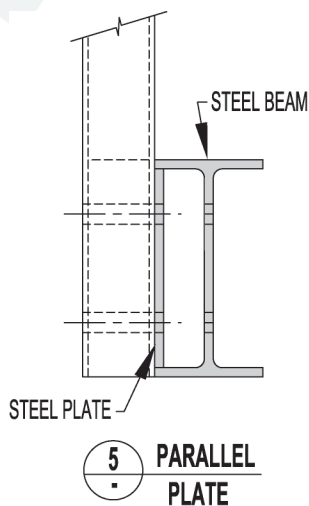
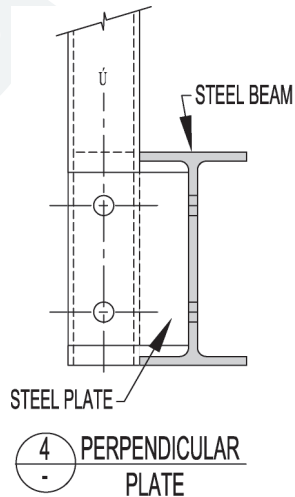
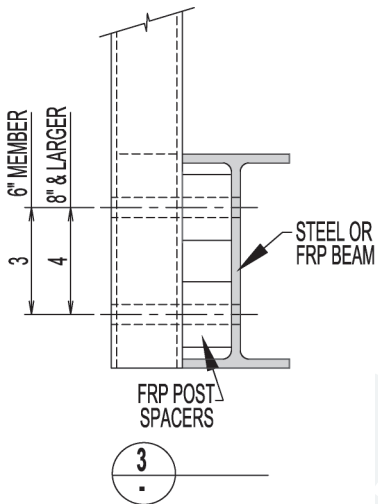
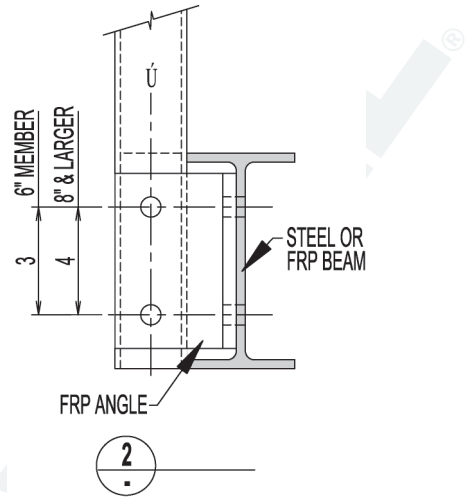
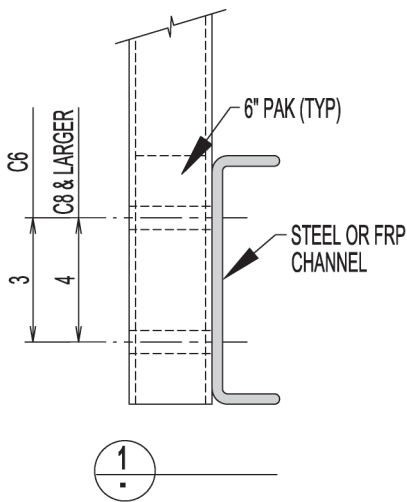
Simple SAFRAIL™ layouts can easily be sketched. Be certain that any specifications are noted, such as: overall lengths, locations of openings, sections to be removable, post spacing (if this has been set by the customer), straight rail, or sloped (on concrete, steel or FRP stairs), gates, chained openings, etc.

One section through the handrail can easily show: overall height to top rail, height above walking surface, quantity of midrail, midrail spacing, toeplate, mounting style, bolts, anchors, etc.

Intricate, lengthy, or involved layouts will require drawings from the customer. However, do not forget to get specifications required on worksheet.



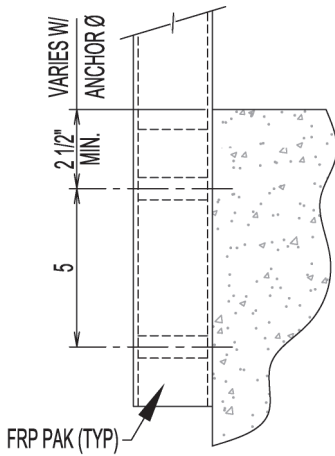
**HANDRAIL POSTS AT STRUCTURAL MEMBERS**



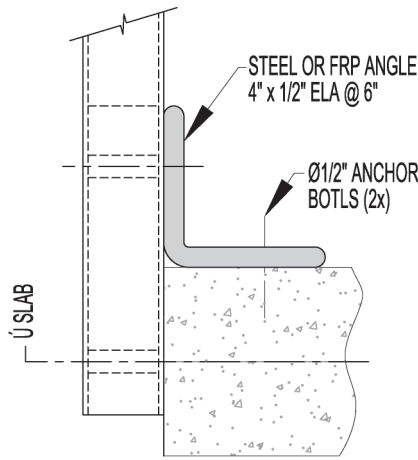
**NOTE: All details are applicable to both standard SAFRAIL™ (TS 2" x 2" x .156") and Heavy Duty (TS 2" x 2" x 1/4") unless otherwise indicated. Please contact Strongwell for information concerning SAFRAIL™ Round Handrail system.**



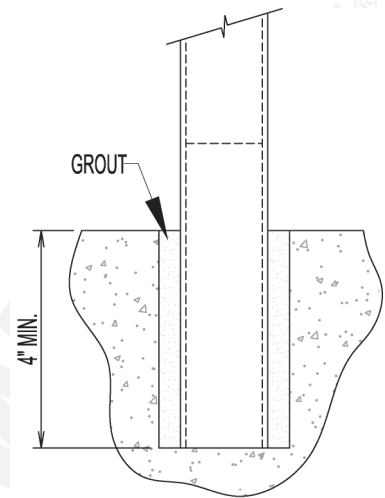
**HANDRAIL POSTS AT CONCRETE**



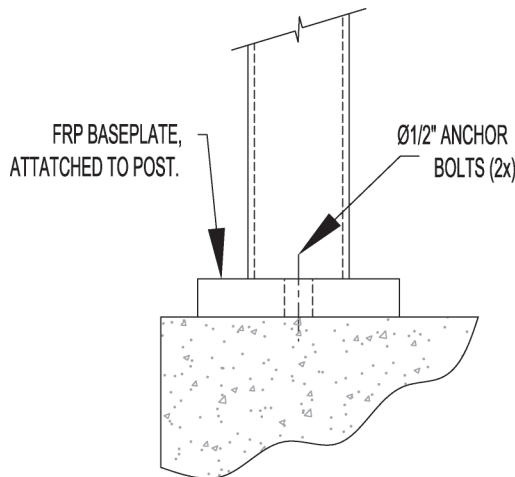
6 SIDE MOUNTED  
THICK SLABS  
(10" & LARGER)



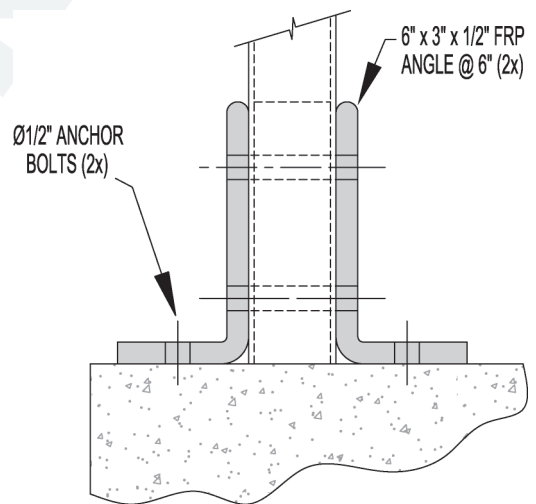
7 SIDE MOUNTED  
THIN SLABS



8 EMBEDDED



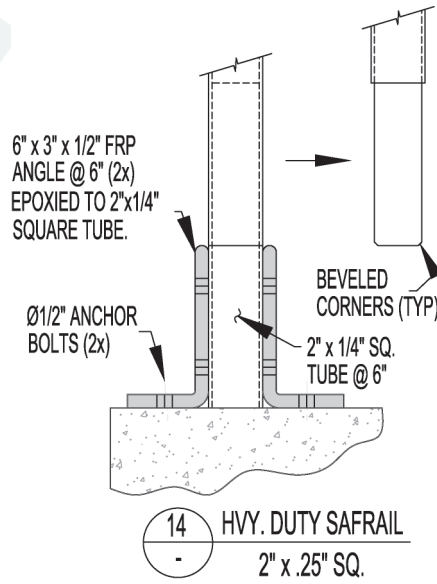
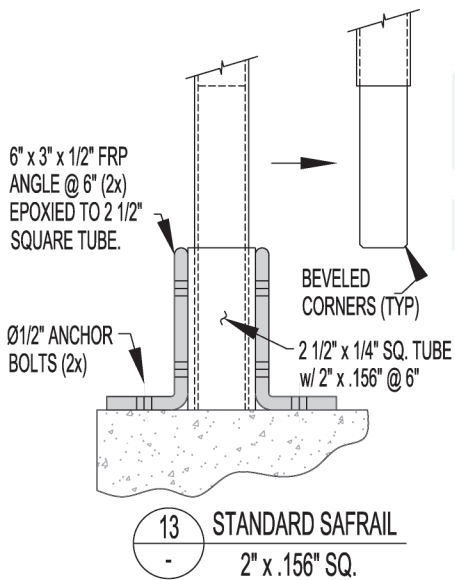
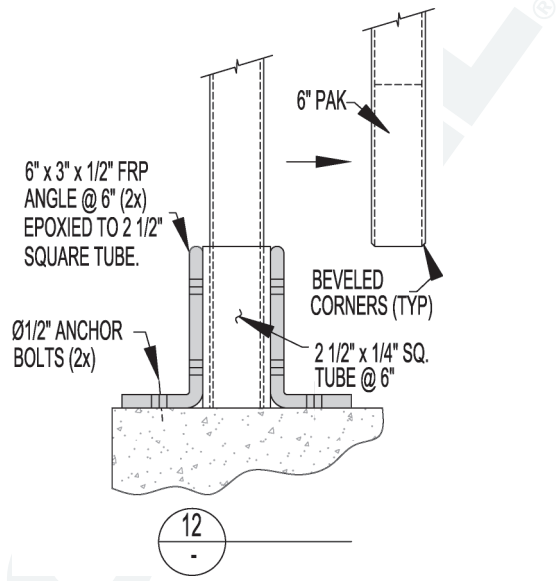
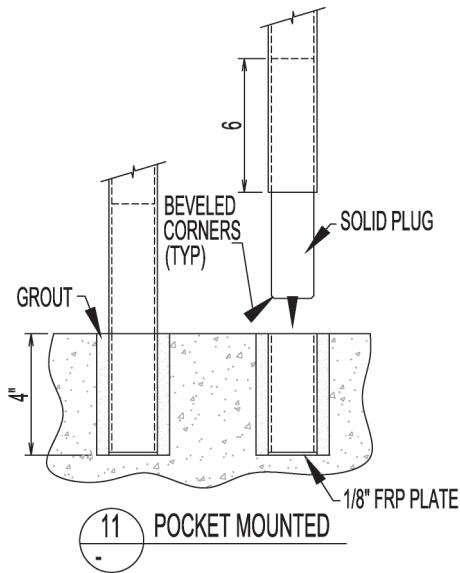
9 TOP MOUNTED  
STANDARD



10 TOP MOUNTED  
HEAVY-DUTY

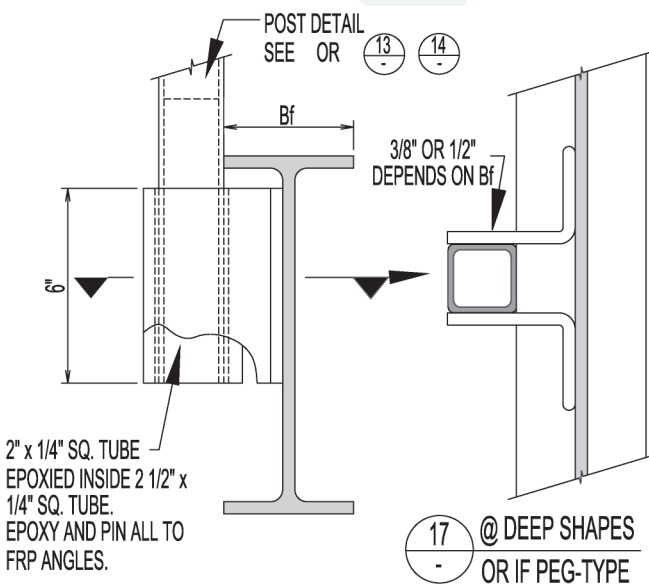
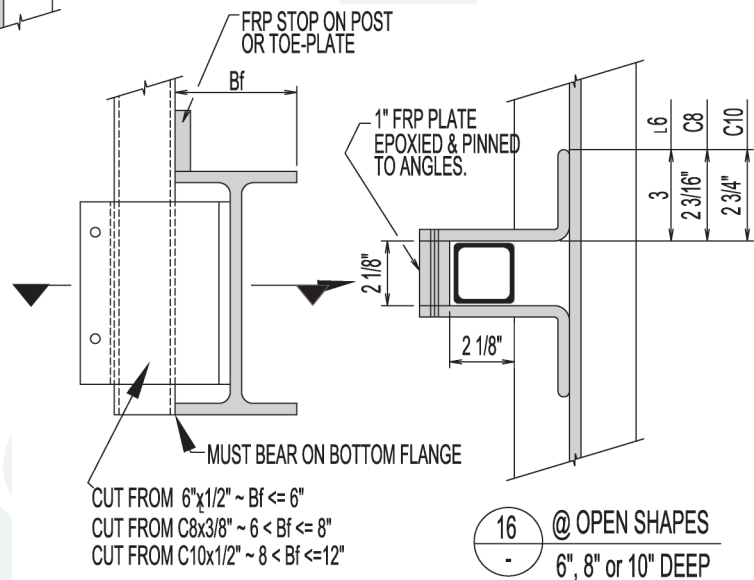
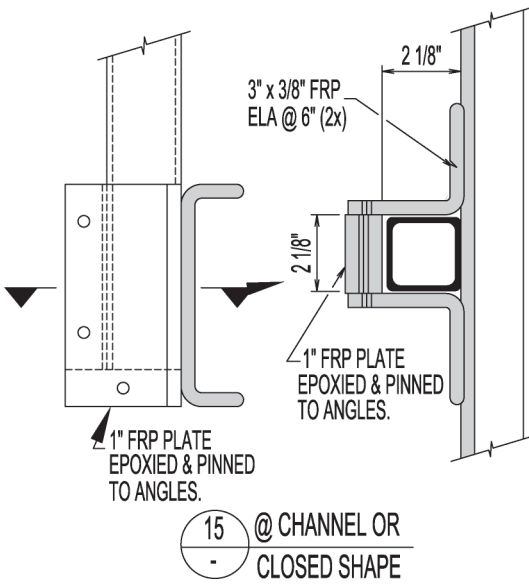
**NOTE: All details are applicable to both standard SAFRAIL™ (TS 2" x 2" x .156") and Heavy Duty (TS 2" x 2" x 1/4") unless otherwise indicated. Please contact Strongwell for information concerning SAFRAIL™ Round Handrail system.**

**REMOVABLE HANDRAIL POSTS AT CONCRETE**



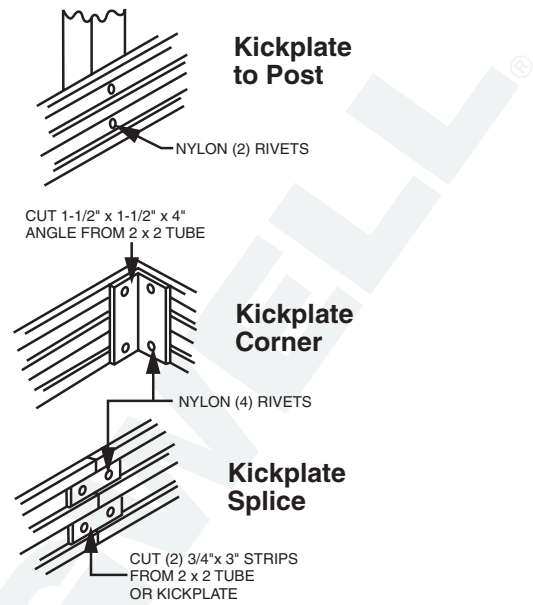
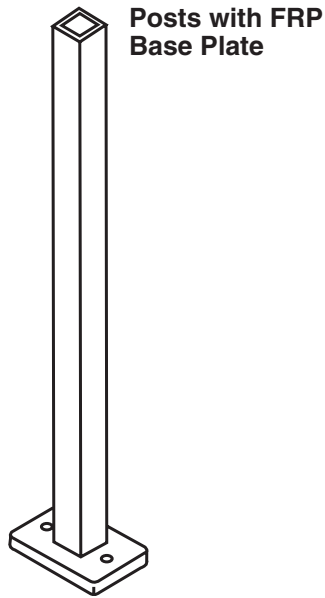
**NOTE:** All details are applicable to both standard SAFRAIL™ (TS 2" x 2" x .156") and Heavy Duty (TS 2" x 2" x 1/4") unless otherwise indicated. Please contact Strongwell for information concerning SAFRAIL™ Round Handrail system.

**REMOVABLE HANDRAIL POSTS AT STRUCTURAL MEMBERS**

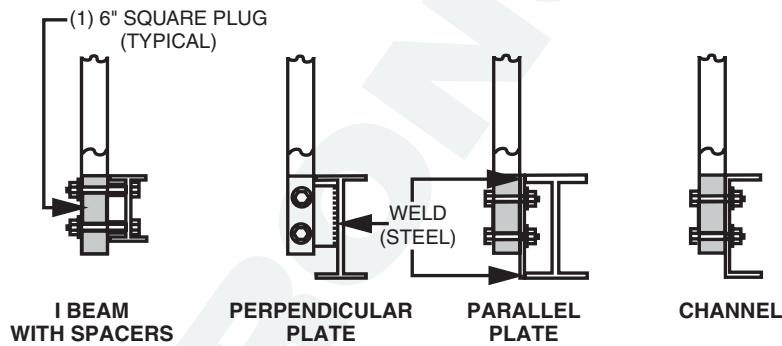


**NOTE: All details are applicable to both standard SAFRAIL™ (TS 2" x 2" x .156") and Heavy Duty (TS 2" x 2" x 1/4") unless otherwise indicated. Please contact Strongwell for information concerning SAFRAIL™ Round Handrail system.**

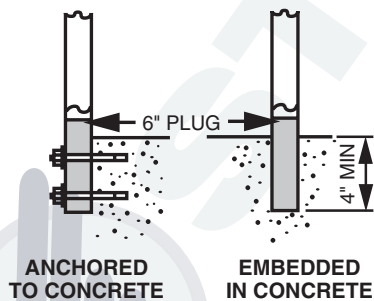
**SUGGESTED POST & KICK PLATE INSTALLATION**



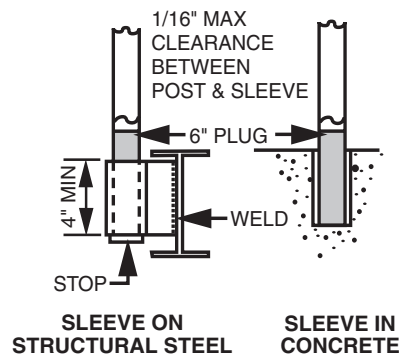
**Fastening to Structural Steel or Fiberglass**



**Fastening to Concrete**



**Removable Posts**



**NOTE:** All details are applicable to both standard SAFRAIL™ (TS 2" x 2" x .156") and Heavy Duty (TS 2" x 2" x 1/4") unless otherwise indicated. Please contact Strongwell for information concerning SAFRAIL™ Round Handrail system.

**STRONGRAIL™ WORKSHEET**

DATE QUOTE REQUIRED: \_\_\_\_\_

Bristol Division Fax: 276-645-8003  
 Chatfield Division Fax: 507-867-4031

**GEOGRAPHICAL INFORMATION**

1. \_\_\_\_\_  
 (City, State AND Nearest Large City)

**DESIGN CONDITIONS AND LOADS**

2. STRONGRAIL™ WILL MEET IBC 2006 WITH A 2:1 FACTOR OF SAFETY.
3. PICKET SPACING IS 4.75" ON CENTER (Open spacing between pickets will be less than 4").
4. LIST OTHER REQUIREMENTS TO BE MET: \_\_\_\_\_

**SERVICE AND QUOTING REQUIREMENTS**

5. COLOR (All handrail is UV coated):
- WHITE
  - BLACK
  - OTHER \_\_\_\_\_

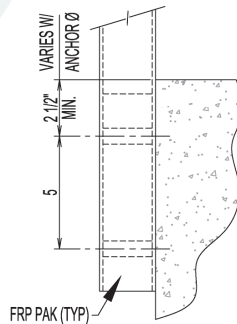
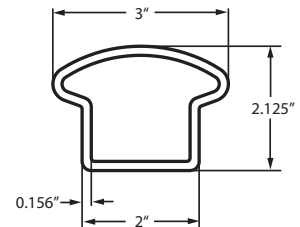
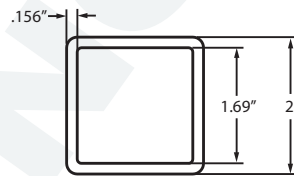
6. TOP RAIL TYPE:
- 2" SQUARE TUBE
  - 3" ROUNDED

7. PICKET TYPE:
- 1" SQUARE
  - 1" ROUND

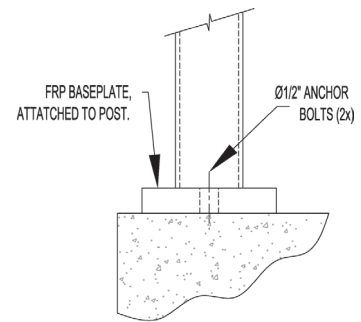
8. POST TYPE:
- 2" SQUARE TUBE
  - 4" SQUARE TUBE
  - WALL MOUNT BRACKET

9. POST MOUNTING TYPE:
- SIDE MOUNT
  - TOP BASE MOUNT
  - EMBEDDED POCKET MOUNT

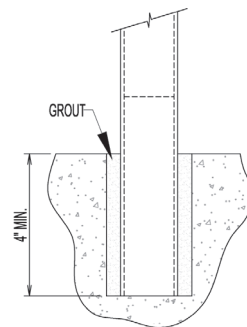
10. TYPE OF STRONGRAIL™ AND ESTIMATED FOOTAGE:
- STRAIGHT RAIL  
 FOOTAGE OF STRAIGHT RAIL \_\_\_\_\_
  - STAIR RAIL  
 FOOTAGE OF STAIR RAIL \_\_\_\_\_



SIDE MOUNTED THICK SLABS (10" & LARGER)



TOP MOUNTED STANDARD



EMBEDDED

**NOTE:** For a firm price, submit drawings with this worksheet.

**BUILDING WORKSHEET**

DATE QUOTE REQUIRED: \_\_\_\_\_  Bristol Division Fax: 276-645-8003  
 Chatfield Division Fax: 507-867-4031

**GEOGRAPHICAL INFORMATION**

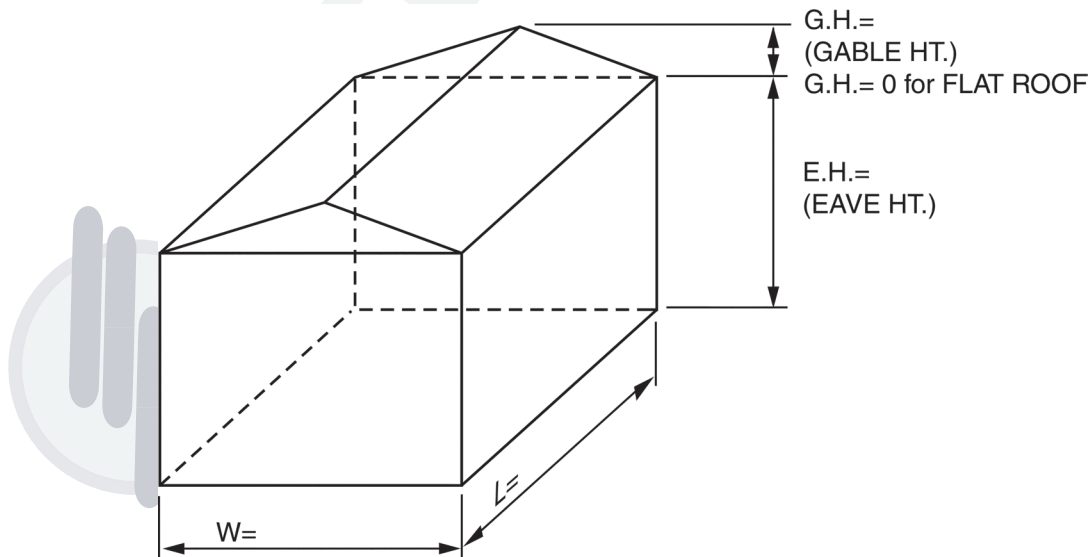
- 1. \_\_\_\_\_ 2. OUTDOORS  YES  NO  
(City, State AND Nearest Large City)
- 3. LOCATED AT: GROUND LEVEL \_\_\_\_ or \_\_\_\_ FEET ABOVE
- 4. IN GENERALLY OPEN AND FLAT TERRAIN:  YES  NO \_\_\_\_  
(Extending 1/2 Mile or more from site in any Quadrant)

**DESIGN CONDITIONS AND LOADS**

- 5. LOCAL BUILDING CODE APPLICABLE TO JOB: \_\_\_\_\_
- 6. WIND LOAD: \_\_\_\_\_ (MPH) 7. ROOF LIVE LOAD: \_\_\_\_\_ (PSF)
- 8. FLOOR LIVE LOAD: \_\_\_\_\_ (PSF) (FOR MEZZANINES, PLATFORMS IF APPLICABLE)
- 9. SEISMIC DESIGN CATEGORY: \_\_\_\_\_
- 10. SNOW LOAD: \_\_\_\_\_ (PSF) (Local Conditions May Control)

**SERVICE AND QUOTING REQUIREMENTS**

- 11. CORROSIVES: (Type) \_\_\_\_\_ 12. TEMP \_\_\_\_\_ (°F or AMBIENT)
- 13. EXTREN® SERIES: \_\_\_\_\_ STD COLOR \_\_\_\_\_ OTHER \_\_\_\_\_
- 14. HARDWARE: FIBREBOLT \_\_\_\_\_ 304SS \_\_\_\_\_ 316SS \_\_\_\_\_ OTHER \_\_\_\_\_



**SHOW OUT-TO-OUT DIMENSIONS.  
NOTE: INSIDE DIMENSIONS WILL BE SMALLER BY 4.5' IN WIDTH AND 3' IN LENGTH AND PEAK HEIGHT. SHOW DOORS, WINDOWS AND SKYLIGHT AND SIZES ON THE SKETCH.**

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## BUILDING WORKSHEET COMMENTARY

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### GEOGRAPHICAL INFORMATION

1. **CITY AND STATE** and **NEAREST LARGE CITY** is important because location may control wind loads, snow loads, earthquake criteria, etc. Building Code maps usually show major metropolitan cities so **NEAREST LARGE CITY** is important if actual site location is remote.
2. Buildings sheltered or inside other structures (**INDOORS**) will not require wind or snow loads. This answer may be apparent from specifications or drawings, but not so apparent from a telephone request for quote.
3. Buildings outdoors and **ABOVE GRADE** (like on buildings) will have larger gust factors for wind conditions.
4. Buildings in **OPEN AND FLAT TERRAIN** support **HIGHER** wind loads and **LOWER** snow loads. Buildings can be designed for worst case, but may be conservative and unnecessarily uneconomical.

### DESIGN CONDITIONS AND LOADS

5. Building codes may vary by locality. The IBC (International Building Code) is becoming the standard, however, other applicable building codes may be BOCA, SBC, ANSI (now ASCE-7) or a local (city or state) building code. All design information can be easily obtained except local building code information. Customer should provide local code information either with a copy of the code or supplying values 6 thru 9.
6. **WIND LOAD** is usually given in MPH (miles per hour).
7. **ROOF LIVE LOAD** is given in PSF (pounds per square foot). They are usually dependant on the slope of the roof.
8. **FLOOR LIVE LOAD** is given in PSF (pounds per square foot). This value is only required if the building has additional internal floors, platforms or mezzanines that tie to the structure. For buildings on concrete slabs, this is not applicable unless the platforms are to be quoted. Use the **PLATFORM WORKSHEET** if required.
9. **SEISMIC DESIGN CATEGORY** is to be designated. If unknown, design will default to ASCE-7.
10. **SNOW LOAD** is given in PSF (pounds per square foot). Local conditions may govern in mountain regions, the west coast through the Rocky Mountain states and the East coast, North of Massachusetts.

### SERVICE AND QUOTING REQUIREMENTS

- 11-12. **CORROSIVES AND TEMPERATURE** may dictate **EXTREN®** requirements.
13. **EXTREN® SERIES** may be specified. **STANDARD COLOR** (YES or NO) or **OTHER** color are also needed.
14. **HARDWARE** will be bolts for structurals, door/window hardware, trim, panels, etc. **SPECIFY** as necessary.



**GRATING WORKSHEET**

DURADEK® / DURAGRID®

DATE QUOTE REQUIRED: \_\_\_\_\_

Bristol Division Fax: 276-645-8003  
 Chatfield Division Fax: 507-867-4031

**GEOGRAPHICAL INFORMATION**

1. \_\_\_\_\_  
(City, State AND Nearest Large City)
2. OUTDOORS:  YES (UV inhibitor is Standard, UV coating needs to be specified)  NO

**DESIGN CONDITIONS AND LOADS**

3. STANDARD DESIGN LOAD FOR PEDESTRIAN WALKWAYS IS 100 PSF

**SERVICE AND QUOTING REQUIREMENTS**

4. CORROSIVES: \_\_\_\_\_
5. TEMP \_\_\_\_\_ (°F or AMBIENT)
6. RESINS:  POLYESTER (Standard  Gray  Yellow)  
 VINYL ESTER (Call for availability)  
 OTHER (Special \_\_\_\_\_ minimum required of 15,000 lineal feet of bearing bars)
7. HARDWARE:  
 SS SADDLE CLIPS \_\_\_\_\_ (QTY)  
 SS INSERT HOLD DOWNS \_\_\_\_\_ (QTY)  
 1/4" x 20 x 1-1/4" SOCKET HEAD CAP SCREW W/LOCK NUT & WASHER \_\_\_\_\_ (QTY)
8. STANDARD PANEL SIZES:  
 WIDTH  3 FT.  4 FT.  5 FT. (Cross Rod Length)  
 LENGTH  8 FT.  10 FT.  12 FT.  20 FT. (Bar Length or Span)
9. CUSTOM PANEL SIZES: \_\_\_\_\_  
 (Anything other than sizes listed in No. 8)

When quoting custom panel sizes, be sure to verify with your customer which dimension is the width (length of the cross rod) and which dimension is the span (length of the bearing bar).

**INFORMATION TO SHOW OR OBTAIN:**

**PLAN VIEW OF GRATING LAYOUT FOR CUSTOM JOBS. SPECIFICATION OF GRATING TYPE REQUIRED.**



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**DURADEK® / DURAGRID® WORKSHEET COMMENTARY**

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**GEOGRAPHICAL INFORMATION**

1. **CITY, STATE** and **NEAREST LARGE CITY** is important because location may control code to be used for design.
2. UV inhibitor is standard. UV coating may be specified for added protection. Many of our competitors do not have coating as an option. When bidding in a competitive situation, consider the extra cost.

**DESIGN CONDITIONS AND LOADS**

3. Published load tables are available for DURADEK® and DURAGRID® gratings. The load tables specify span capabilities based on given load requirements. When quoting wheel loads (fork lifts, hand carts, etc) it is necessary to specify the wheel diameter and width along with the maximum load per wheel.

**SERVICE AND QUOTING REQUIREMENTS**

- 4-5. Corrosives and temperatures may dictate resin requirements.
6. Standard colors are yellow and gray. Custom colors are available. Set-up charges for non-standard colors are determined by quantity/color. Polyester is the standard resin, except for 1-1/4" bearing bars and the DURAGRID® Economy series where it is vinyl ester. Non-standard runs are possible with a minimum order of 15,000 lineal feet, which in I-6000 is equivalent to approximately 1,875 ft<sup>2</sup>.
7. A standard 316 S.S. saddle clip and a 316 S.S. insert clip are available. The saddle clip wraps around 2 bars and is recommended for stair tread applications. The insert hold down fits between the bars (this type "sandwiches" the bottom flange of the bar to the structural support member). Recommend 2 hold downs of each support with a minimum of 4 per panel.
8. Standard sizes/colors available for a 2 - 5 day shipment are as follows:  
I-6000 1", I-6000 1-1/2" and T-5000 2" in yellow or gray polyester. Vinyl ester stock is sometimes maintained. All stock is inventoried in limited quantities and will only be held with a Purchase Order on a first come, first served basis.
9. Custom panels may require detailed shop drawing submittals prior to order entry. Custom panels require longer lead times. If submittals are required it is necessary to know the customer expected ship date, when drawings are required, number of sets required and the customer contact name/address the drawings for approval should be sent to. If a set of blueprints are not available from the customer, exact panel sizes will need to be specified.

**Be sure to verify the span and width dimensions.**



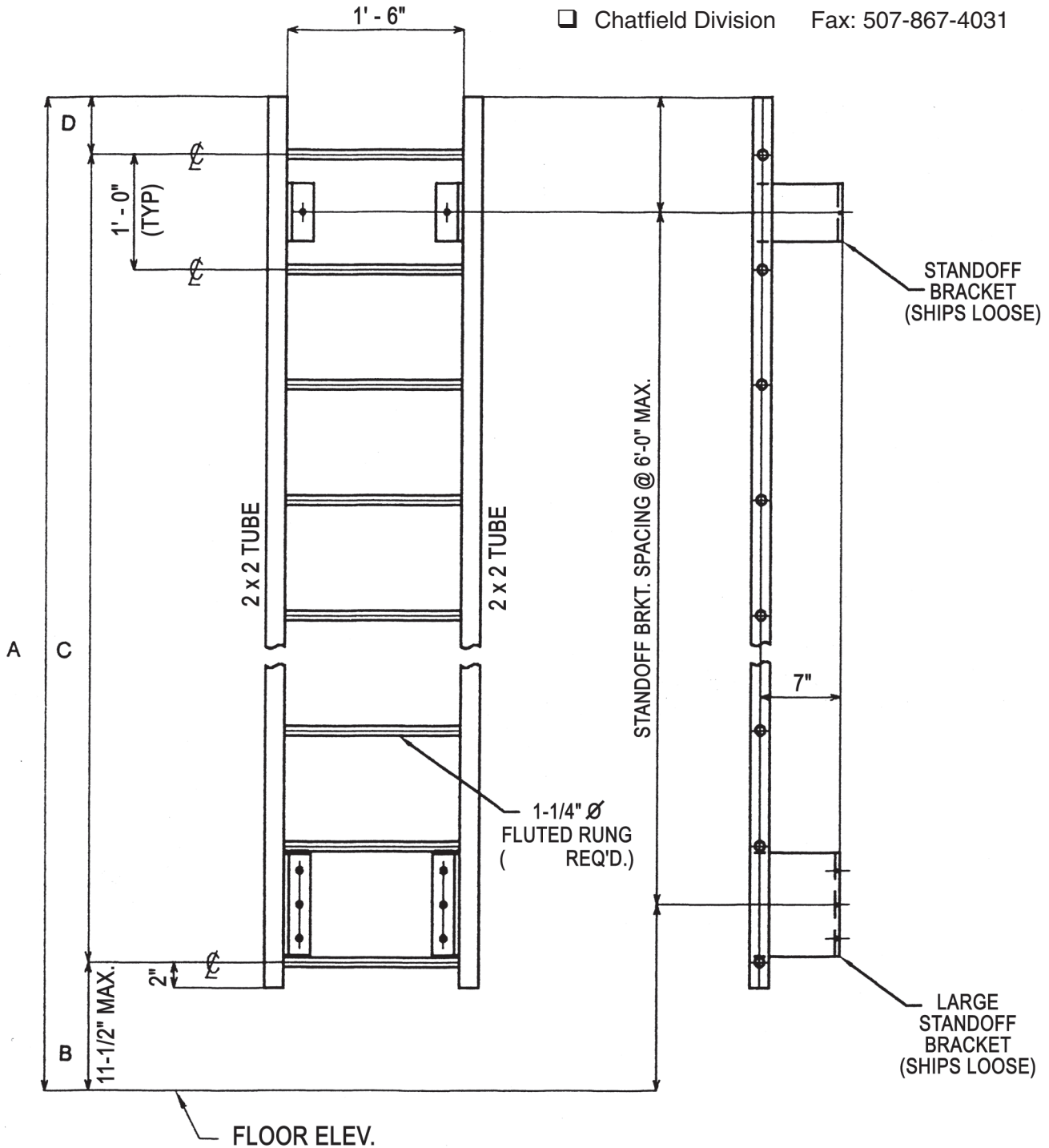
**STANDARD LADDER WORKSHEET**

WITH LARGE STANDOFF WALL MOUNT

DATE QUOTE REQUIRED: \_\_\_\_\_

Bristol Division Fax: 276-645-8003

Chatfield Division Fax: 507-867-4031



A = \_\_\_\_\_  
B = \_\_\_\_\_  
C = \_\_\_\_\_  
D = \_\_\_\_\_

Customer Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_

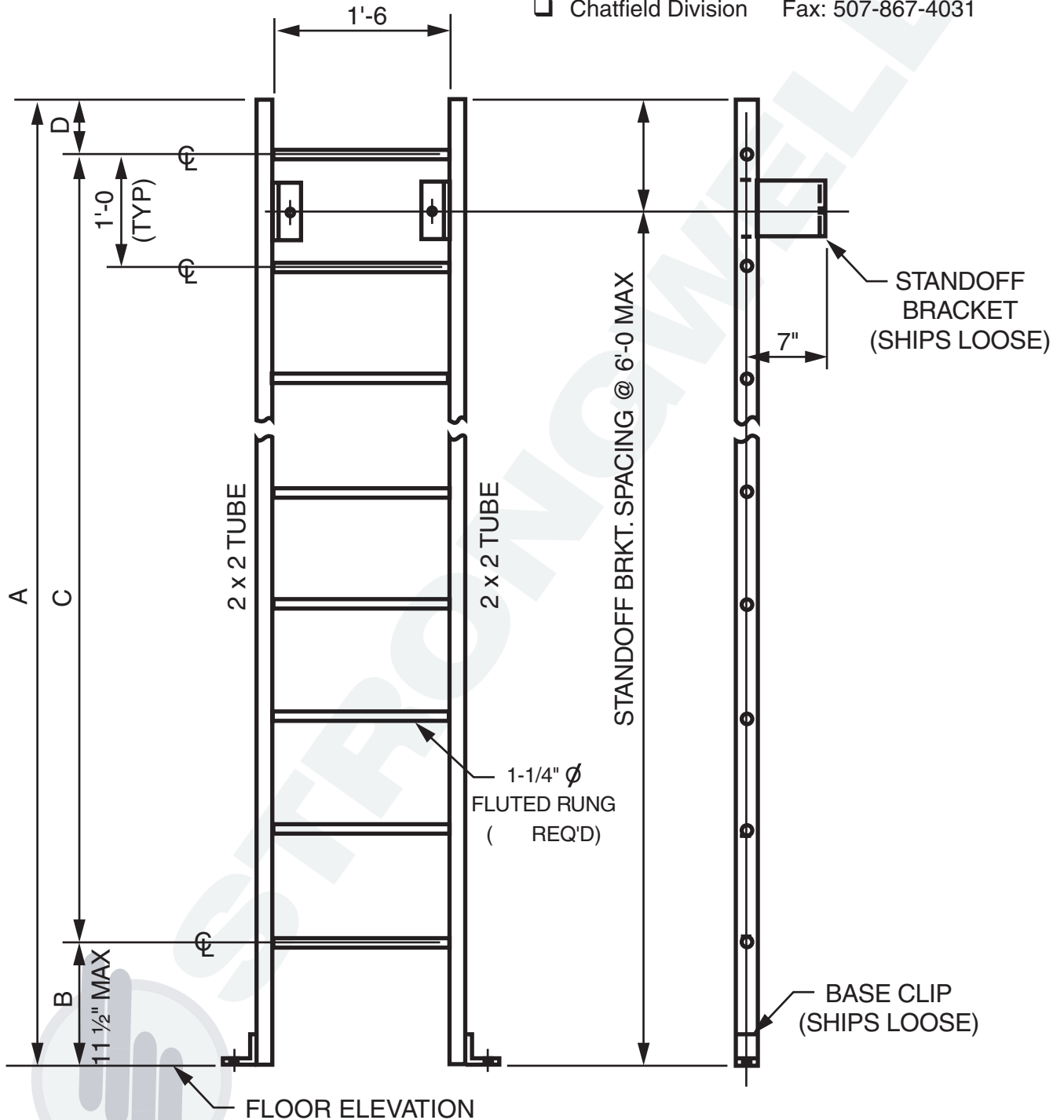
**STANDARD LADDER WORKSHEET**

WITH BASE MOUNT

DATE QUOTE REQUIRED: \_\_\_\_\_

Bristol Division Fax: 276-645-8003

Chatfield Division Fax: 507-867-4031



A = \_\_\_\_\_  
 B = \_\_\_\_\_  
 C = \_\_\_\_\_  
 D = \_\_\_\_\_

Customer Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

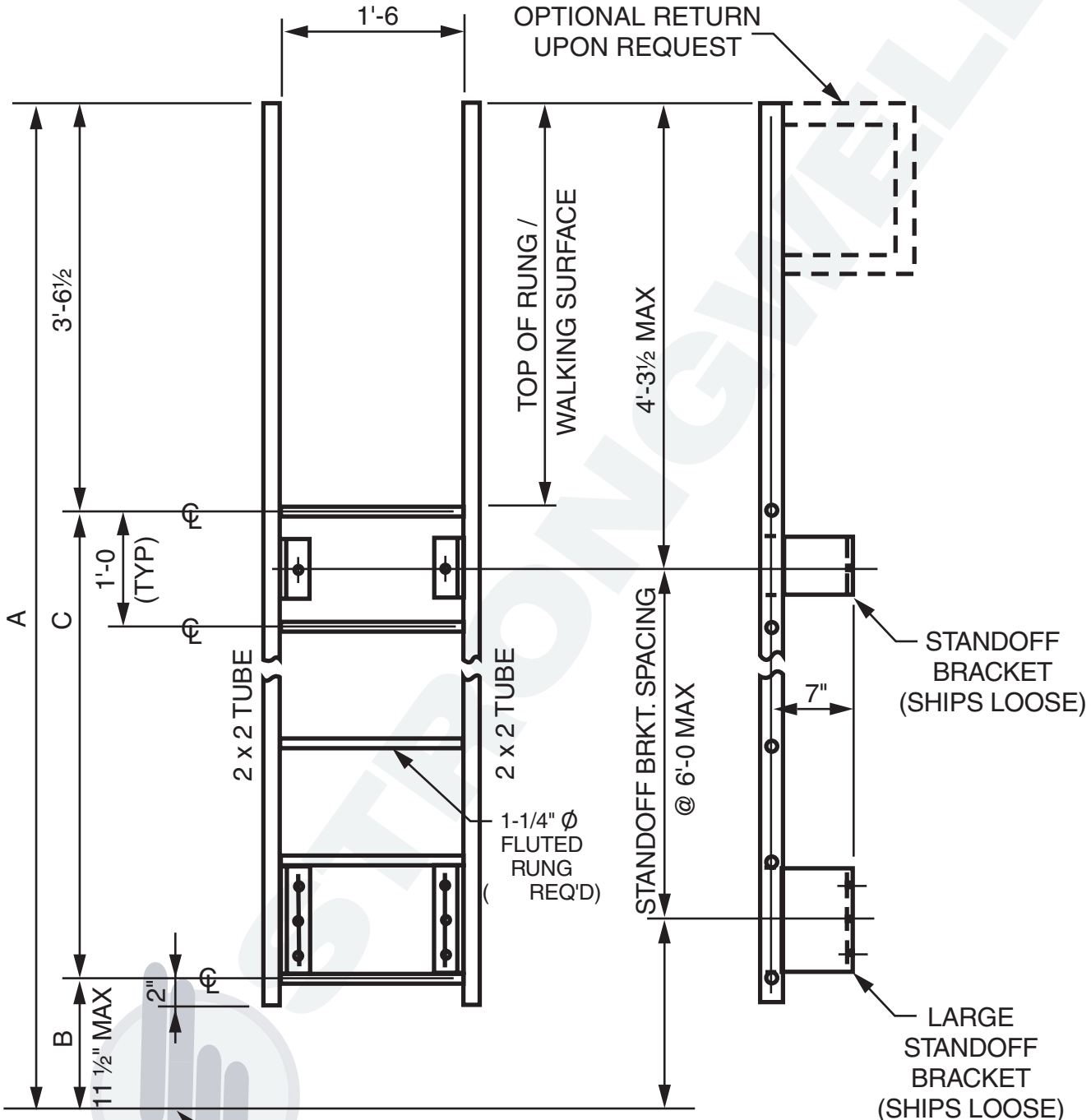
**STANDARD WALK-THROUGH LADDER WORKSHEET**

WITH LARGE STANDOFF BRACKET

Bristol Division Fax: 276-645-8003

Chatfield Division Fax: 507-867-4031

DATE QUOTE REQUIRED: \_\_\_\_\_



FLOOR ELEVATION

A = \_\_\_\_\_  
 B = \_\_\_\_\_  
 C = \_\_\_\_\_

Customer Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

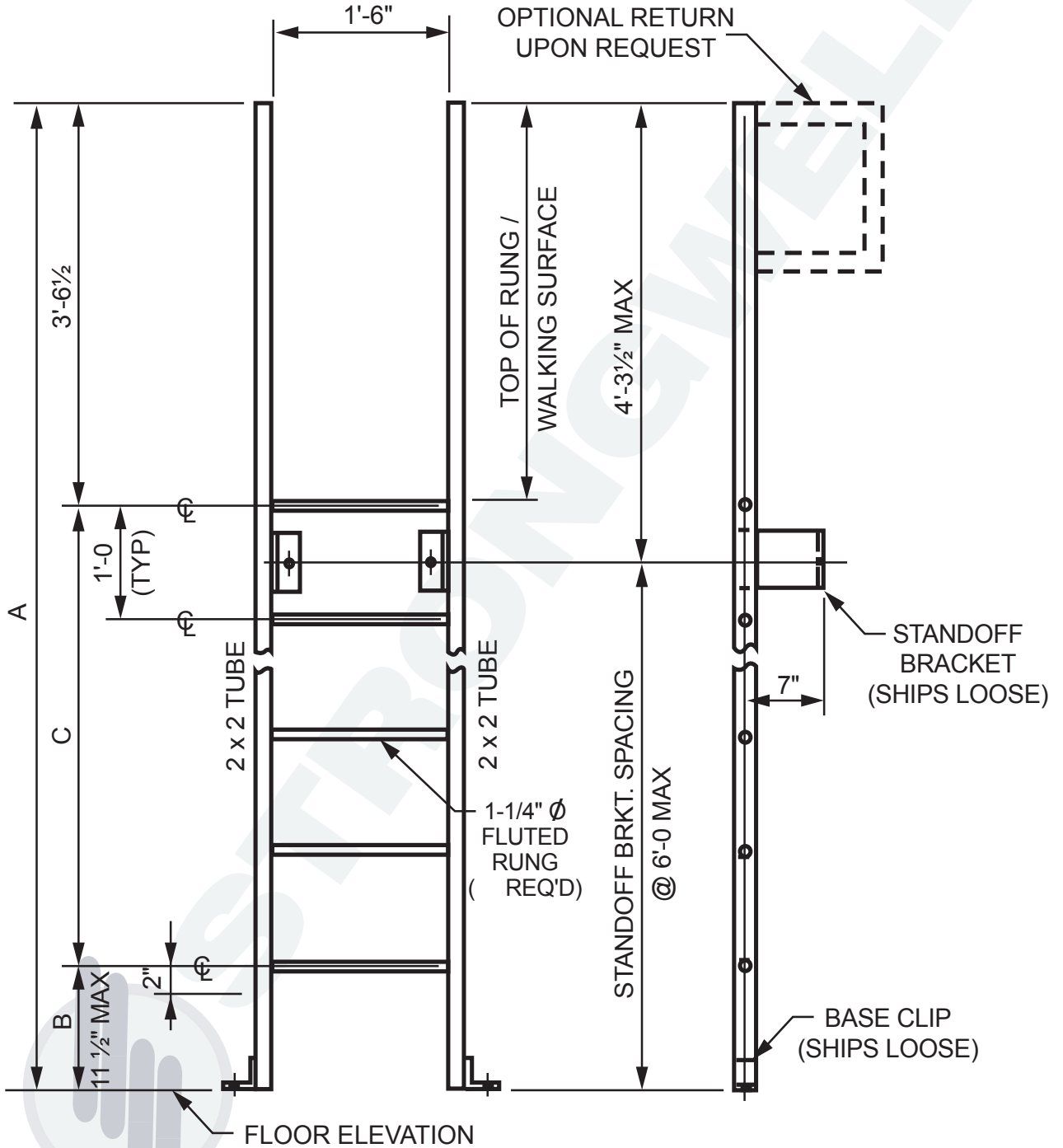
**STANDARD WALK-THROUGH LADDER WORKSHEET**

WITH BASE CLIP

Bristol Division Fax: 276-645-8003

Chatfield Division Fax: 507-867-4031

DATE QUOTE REQUIRED: \_\_\_\_\_



A = \_\_\_\_\_  
B = \_\_\_\_\_  
C = \_\_\_\_\_

Customer Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

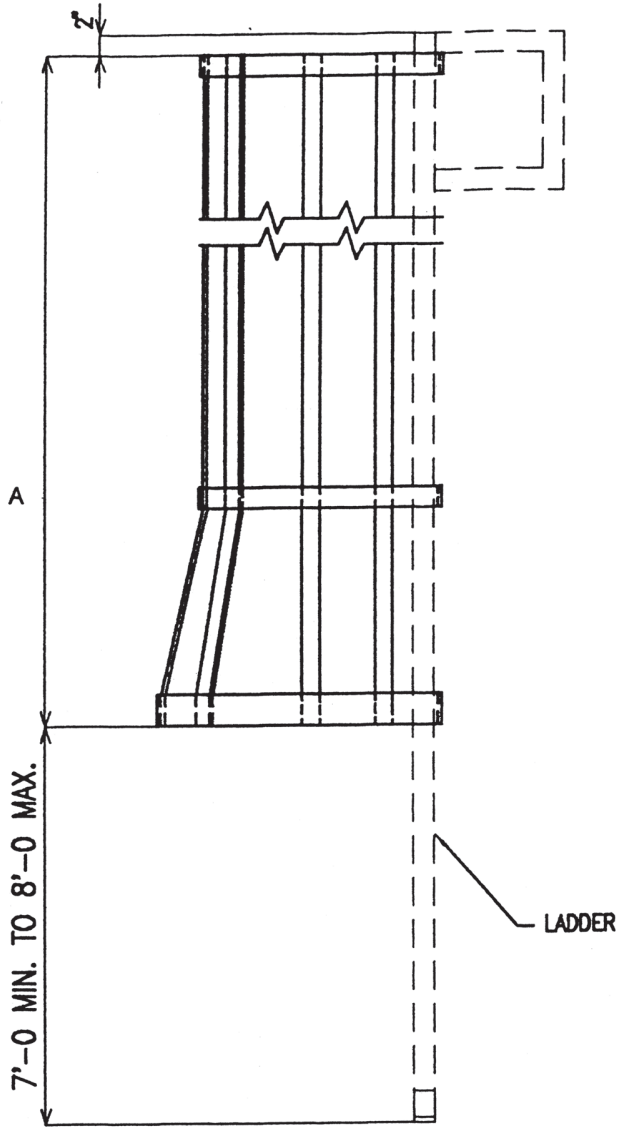
Fax: \_\_\_\_\_

**STANDARD CAGE WORKSHEET**

DATE QUOTE REQUIRED: \_\_\_\_\_

Bristol Division Fax: 276-645-8003

Chatfield Division Fax: 507-867-4031



A = \_\_\_\_\_

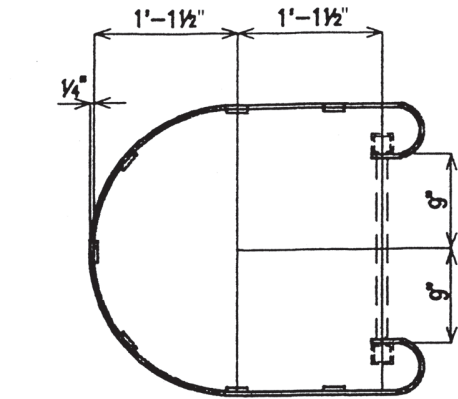
NOTE: SELECT WHICH ACCESS IS TO BE USED AT TOP OF LADDER.

Customer Name: \_\_\_\_\_

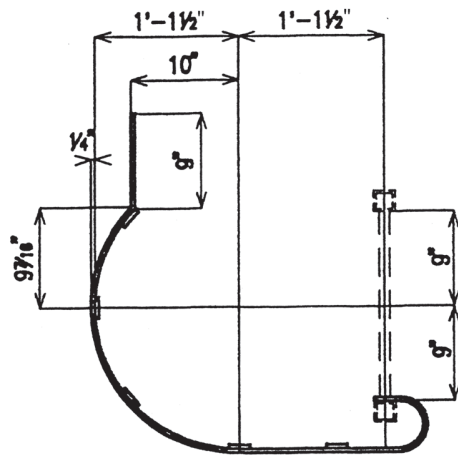
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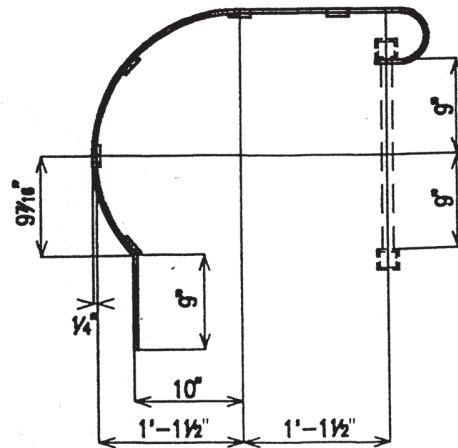
Fax: \_\_\_\_\_



WALKTHRU



LEFT ACCESS



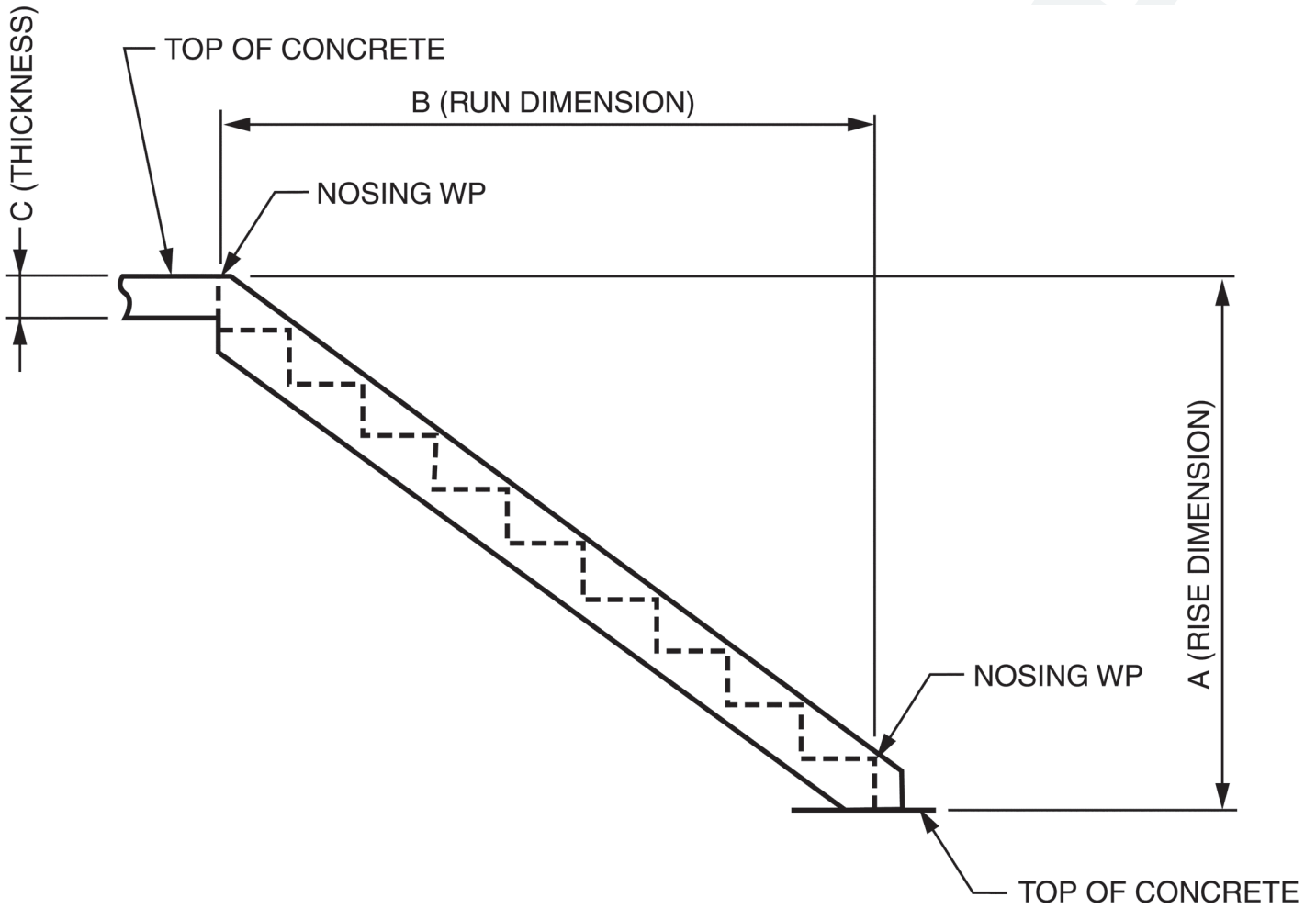
RIGHT ACCESS

**STAIR WORKSHEET**

Bristol Division Fax: 276-645-8003

Chatfield Division Fax: 507-867-4031

DATE QUOTE REQUIRED: \_\_\_\_\_



A = \_\_\_\_\_

B = \_\_\_\_\_

C = \_\_\_\_\_

Stair Width (between stringers) = \_\_\_\_\_

EXTREN® Series = \_\_\_\_\_

Treads (type) = \_\_\_\_\_

Handrail: Stringer Mount or Wall Mount

Both Sides or One Side

**NOTE:** Furnish dimensions for each stair

Customer Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

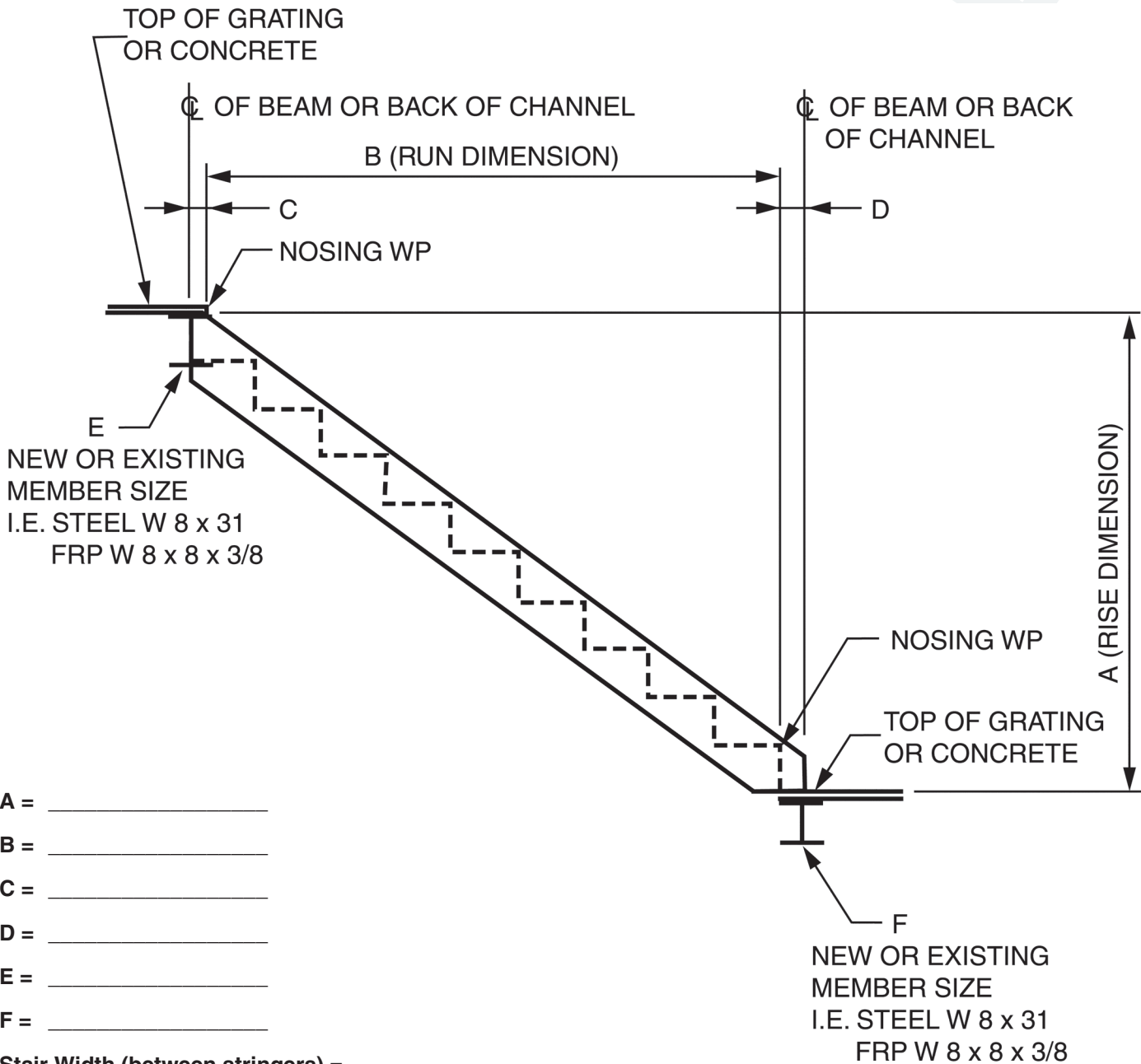
Fax: \_\_\_\_\_

**STAIR WORKSHEET**

Bristol Division Fax: 276-645-8003

DATE QUOTE REQUIRED: \_\_\_\_\_

Chatfield Division Fax: 507-867-4031



A = \_\_\_\_\_

B = \_\_\_\_\_

C = \_\_\_\_\_

D = \_\_\_\_\_

E = \_\_\_\_\_

F = \_\_\_\_\_

Stair Width (between stringers) = \_\_\_\_\_

EXTREN® Series = \_\_\_\_\_

Treads (type) = \_\_\_\_\_

Handrail: Stringer Mount or Wall Mount

Both Sides or One Side

NOTE: Furnish dimensions for each stair

Customer Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_