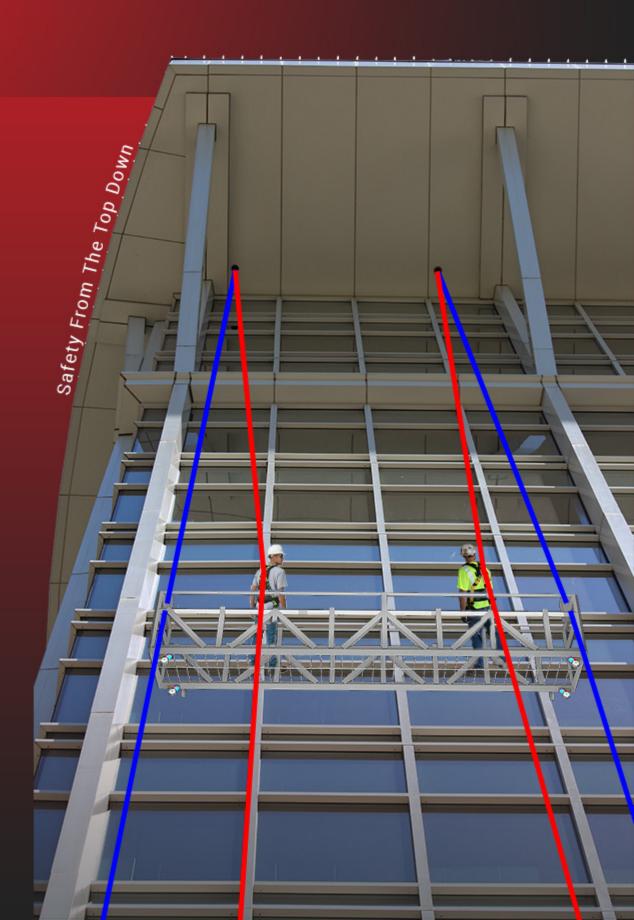
Summit Anchor Co.



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RIGGING SLEEVES manual

Suspended Access Systems and Fall Protection

TABLE OF CONTENTS

| Overview | 2 |
|--|-----|
| How they work | 3 |
| Rigging Sleeves Model Guide | 4 |
| Bolt-on Rigging Sleeve, 4 - Holes | . 4 |
| Weld On Rigging Sleeve | . 5 |
| Weld on Rigging Sleeve - Half-Moon PL | . 5 |
| Concrete-Embed Rigging Sleeve - 4 Nelson Studs | . 6 |
| Bolt-On Rigging Sleeve, 4 - Holes | |
| Bolt-On Recessed Rigging Sleeve, 4 - Holes | . 7 |
| Weld to Structure Recessed - Rigging Sleeve | . 7 |
| Concrete-Embed Sleeve, 4 - Holes | . 8 |
| Weld-On Bend - Rigging Sleeve | |
| Curved L - Rigging Sleeve | . 9 |
| Rigging Sleeves Case Study - The Regent - 950 N Glebe Road | 11 |
| Rigging Sleeves Case Study - 601 D Street | 13 |
| Rigging Sleeves Case Study - Hotel Sierra | 14 |
| Rigging Sleeves Case Study - Blodgett G & H | 15 |
| Rigging Sleeves Case Study - United Therapeutics | 16 |
| Rigging Sleeves Case Study - SJHW | 17 |
| Rigging Sleeves Case Study - Washington Harbor | 18 |
| Advantages of Summit Anchor Co. Rigging Sleeves | 19 |



Overview



Rigging sleeves make inaccessible areas accessible by providing a pathway to rig. A rigging sleeve allows workers to feed suspension and safety lines through a sleeve to a lower level to rig a suspended platform like a swing stage, single man basket or boatswain chair.

Note: A rope descent system or roof rigged platform is not possible with rigging sleeves.

Rigging sleeves may provide a solution to building features such as:

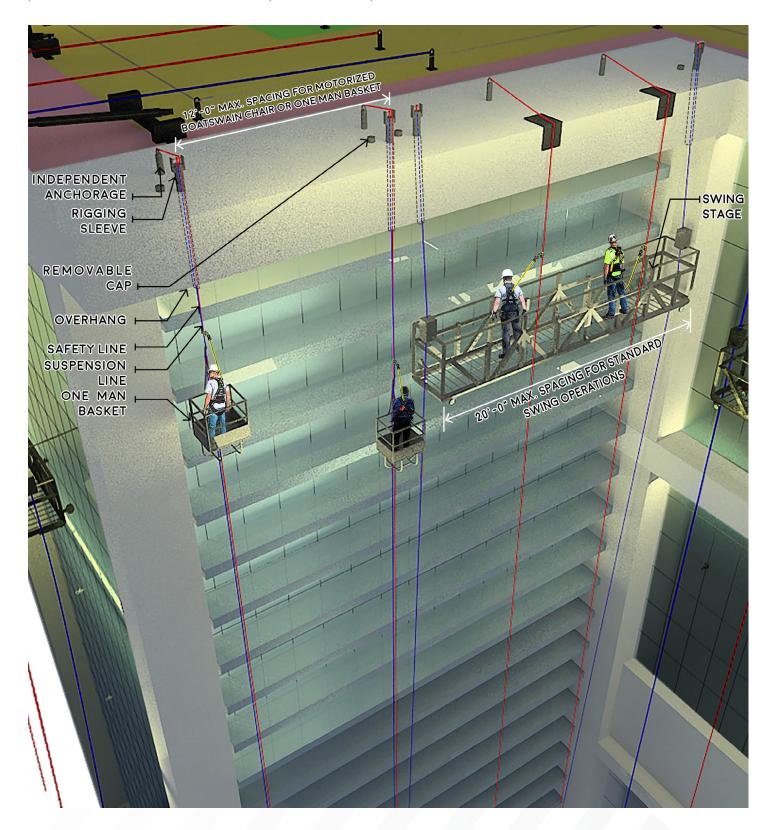
- Extended overhang or soffit, extending 2'-0" or more from facade
- · Rotunda ceilings
- Sloped roofs
- · High parapet walls
- Skylights

Most rigging sleeves come with an integrated anchor point while providing a passage through an obstruction. While a rigging sleeve may provide an anchorage for suspension of a platform, an independent anchorage is required for fall protection lines while suspended on a platform. Such safety lines may be rigged through rigging sleeves.



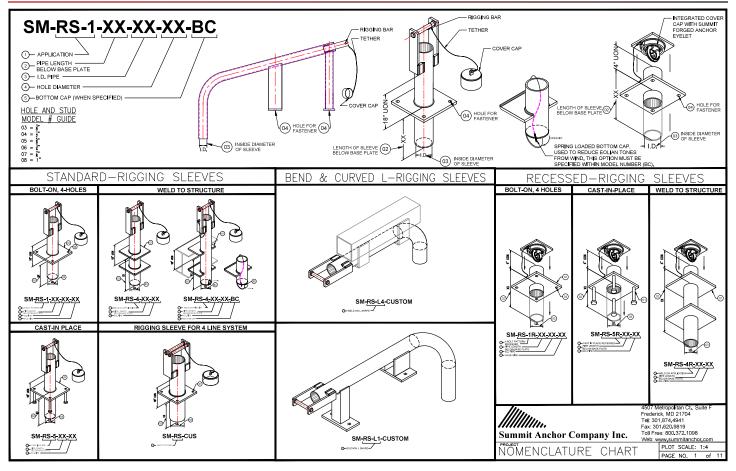
How they work...

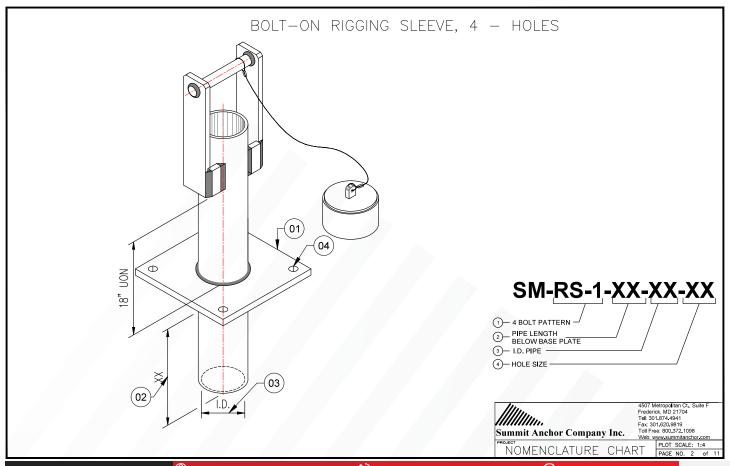
After securing his lifeline to an independent anchor, a maintenance worker simply ties his suspension line to the steel rod on the top of the rigging sleeve, removes the rigging sleeve cap, suspends both lines through the rigging sleeve, then returns to a lower level where a platform is located to secure himself and the platform to the suspension and lifelines.

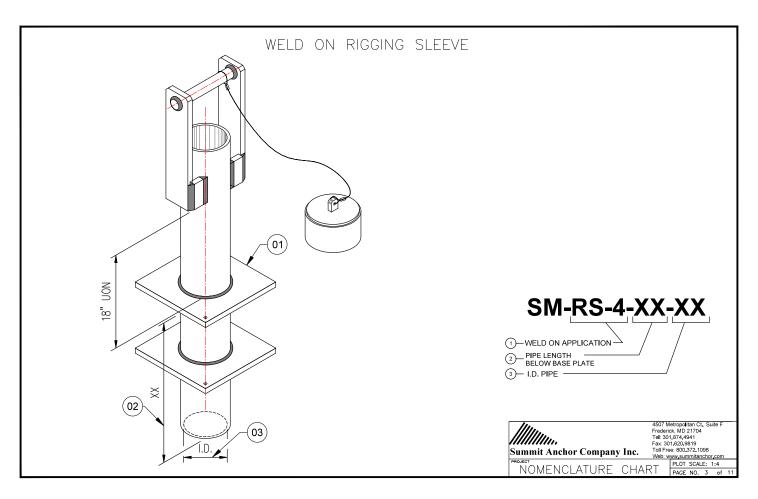


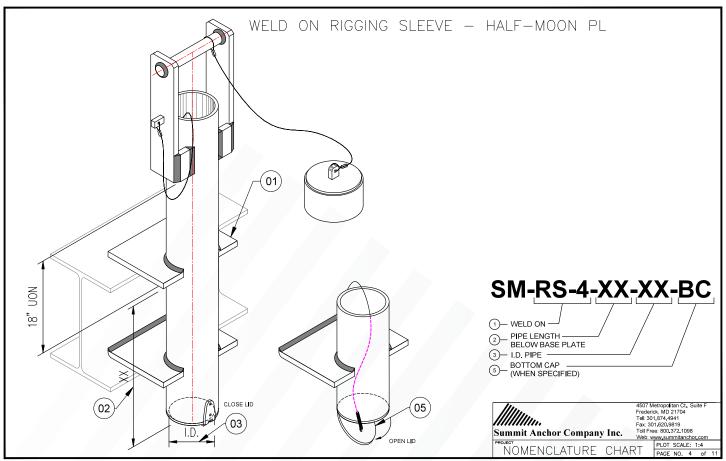


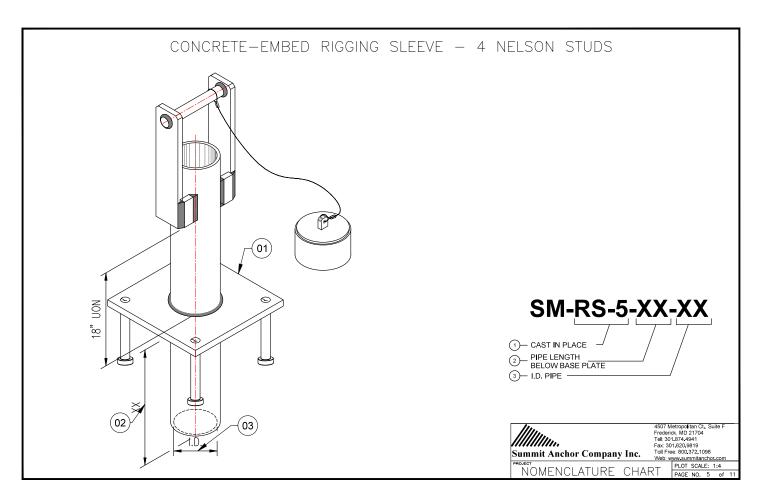
Rigging Sleeves Model Guide

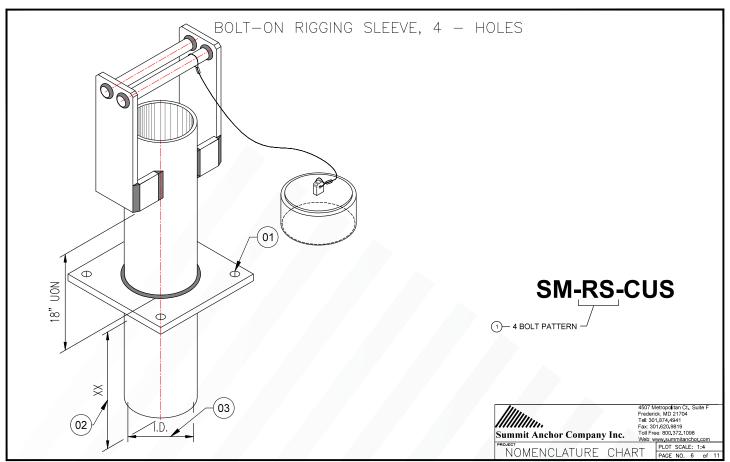


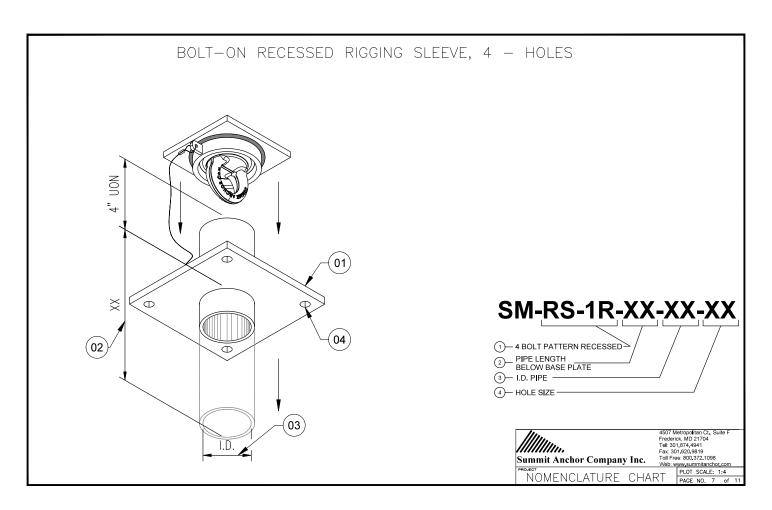


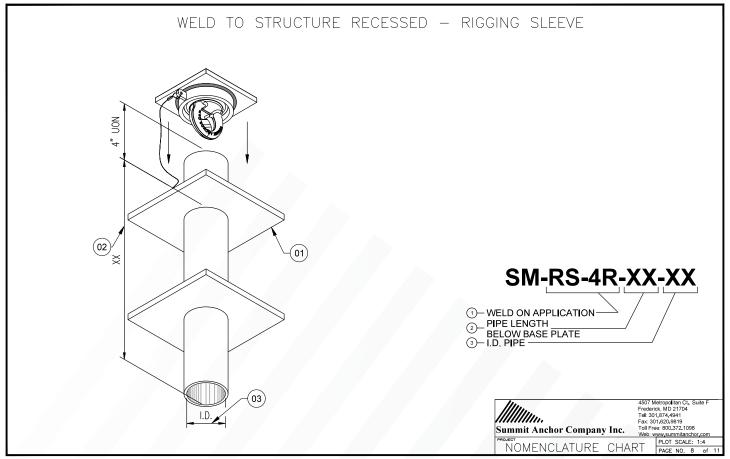


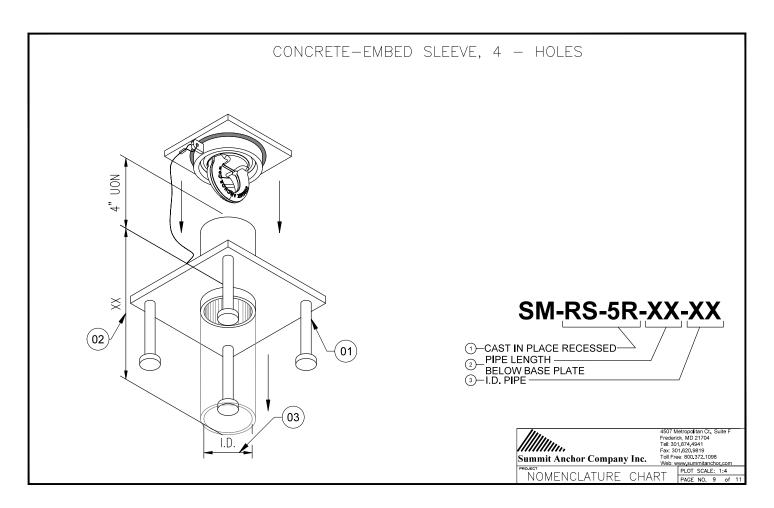


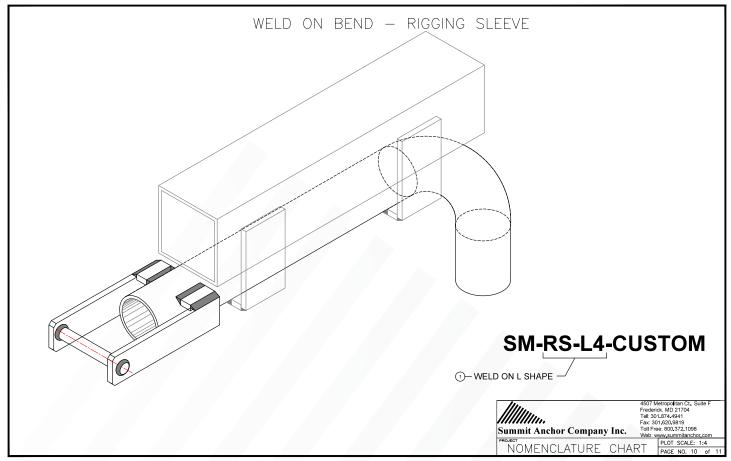


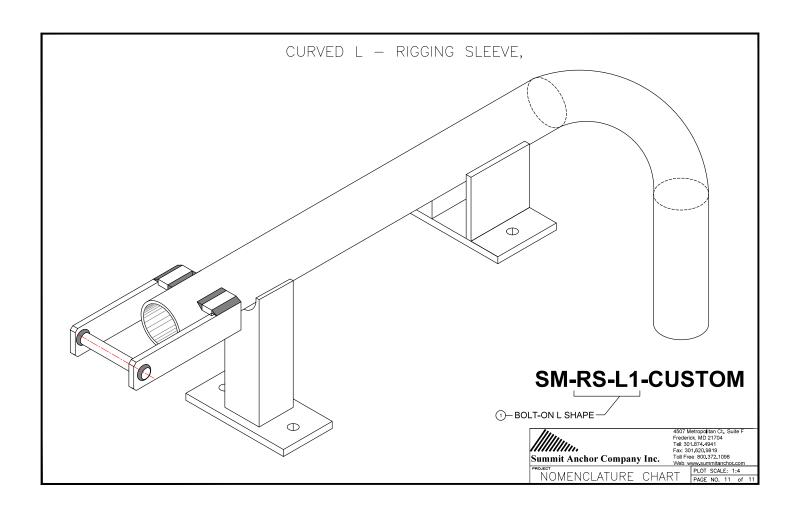




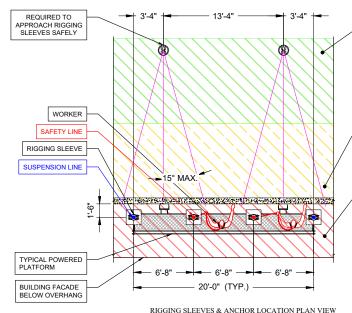








SUGGESTED RIGGING SLEEVES LAYOUT



FALL PROTECTION ZONES

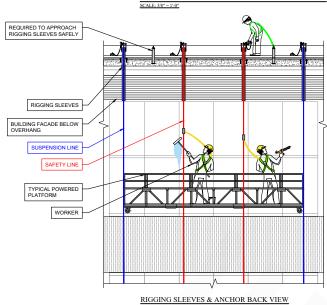
GREEN ZONE: 15 FEET OR MORE FROM THE ROOF FDGE FMPI OYFR MUST ENSURE EACH EMPLOYEE IS PROTECTED FROM FALLING BY A (1) GUARDRAIL SYSTEM: (2) SAFETY NET SYSTEM: (3) TRAVEL RESTRAINT SYSTEM; OR (4) PERSONAL FALL ARREST SYSTEM, OR BY A "DESIGNATED AREA," WHICH IS AN AREA DELINEATED BY A PHYSICAL WARNING LINE. SEE OSHA SUBPART D FOR MORE INFORMATION ON PROPER SET-UP AND USE OF WARNING LINES. IN THE CASE WHERE A DESIGNATED AREA IS USED, OSHA REQUIRES EMPLOYERS TO IMPLEMENT AND ENFORCE A WORK RULE PROHIBITING EMPLOYEES FROM GOING WITHIN 15 FEET OF THE ROOF EDGE WITHOUT USING FALL PROTECTION.

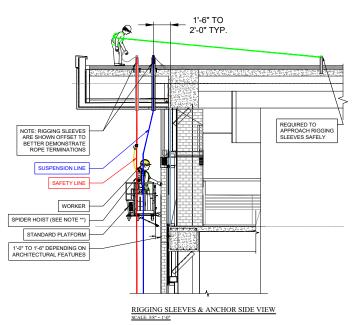
AT LEAST 6 FEET BUT LESS THAN 15 FEET FROM THE ROOF EDGE. EMPLOYER MUST ENSURE EACH EMPLOYEE IS PROTECTED FROM FALLING BY A (1) GUARDRAIL SYSTEM; (2) SAFETY NET SYSTEM; (3) TRAVEL RESTRAINT SYSTEM: OR (4) PERSONAL FALL ARREST SYSTEM. HOWEVER. FOR WORK THAT IS BOTH INFREQUENT AND TEMPORARY, OSHA ALLOWS EMPLOYERS TO USE A "DESIGNATED AREA,"

RED ZONE: LESS THAN 6 FEET FROM THE ROOF EDGE. EMPLOYER MUST ENSURE EACH EMPLOYEE IS PROTECTED FROM FALLING BY A (1) GUARDRAIL SYSTEM; (2) SAFETY NET SYSTEM; (3) TRAVEL RESTRAINT SYSTEM; OR (4) PERSONAL FALL ARREST SYSTEM.

OSHA'S SUBPART D - WALKING - WORKING SURFACES DESIGNATED AREA

- FOR FALL PROTECTION SYSTEMS
 (1) GUARDRAIL SYSTEM
- (2) SAFETY NET SYSTEM
- (3) TRAVEL RESTRAINT SYSTEM
- (4) PERSONAL FALL ARREST SYSTEM





- RIGGING SLEEVE SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
- EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
- PLACEMENT OF RIGGING SLEEVES AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGULATED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL **TRAVEL**
- SUMMIT RIGGING SLEEVES ARE CAPABLE OF SUPPORTING 5,000 LB. ULTIMATE LOAD AND 1,250 LB. ALLOWABLE LOAD. RIGGING SLEEVES MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM RIGGING SLEEVE FAILURE. INSTALLATION OF RIGGING SLEEVES MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, RIGGING SLEEVES SHALL BE TESTED UNDER THE SUPERVISION OF A P.E. AND CERTIFIED BEFORE BEING PLACED INTO

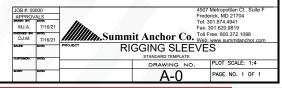
*OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES
"EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS

**SPIDER PLATFORM SPECIFICATIONS

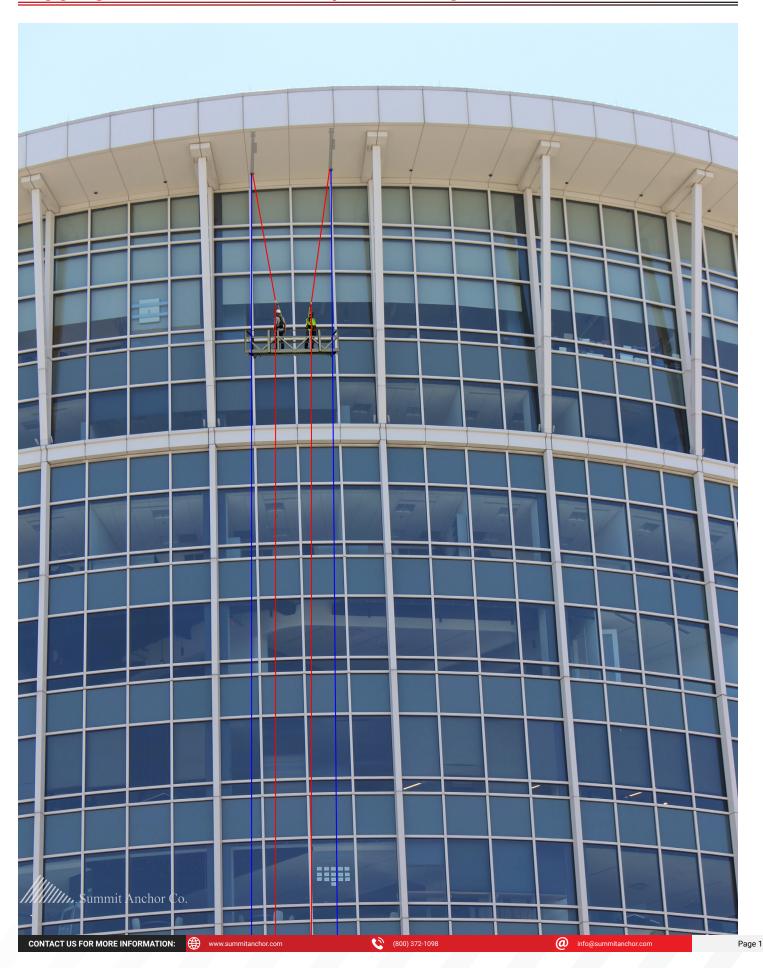
PI SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD

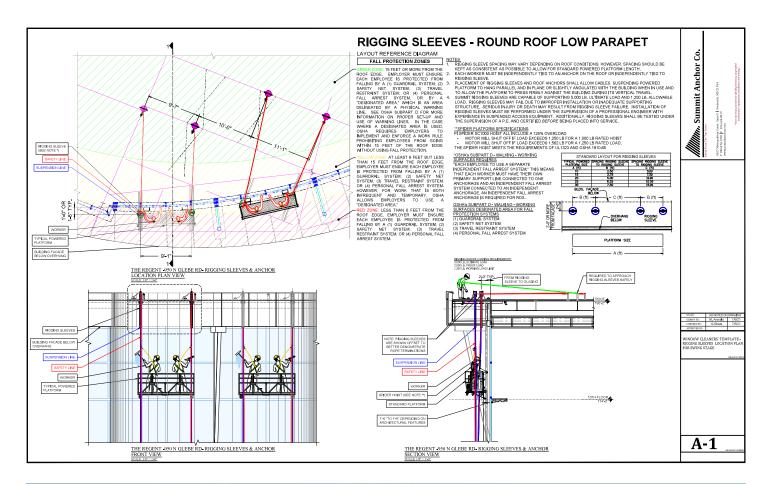
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD.

THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66



Rigging Sleeves Case Study - The Regent - 950 N Glebe Road

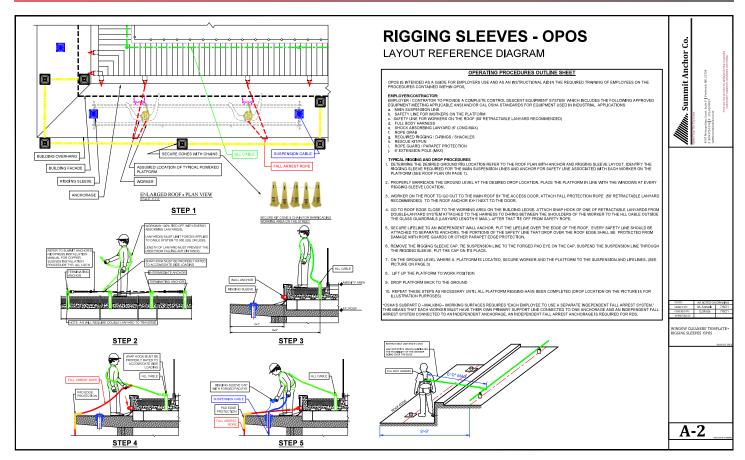


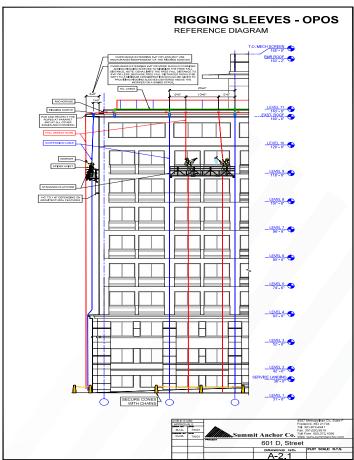


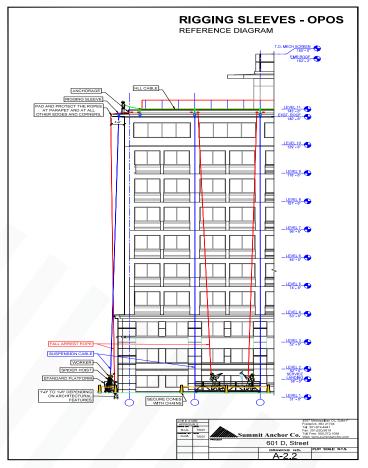


Rigging sleeves located on the roof above an overhang access to access the exterior facade shown on page 1 of this manual.

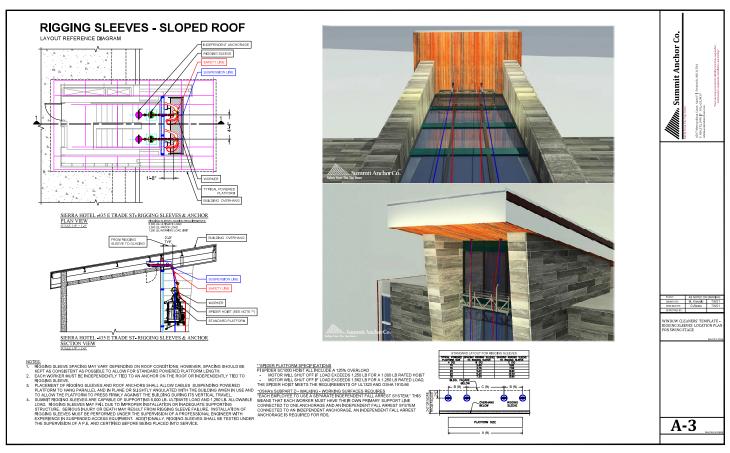
Rigging Sleeves Case Study - 601 D Street

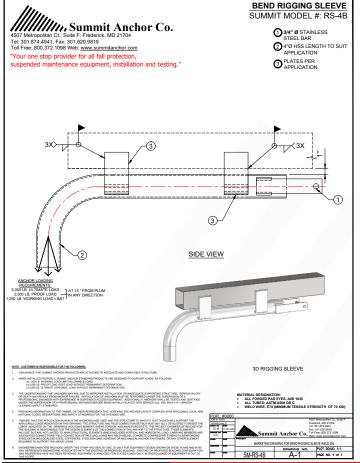


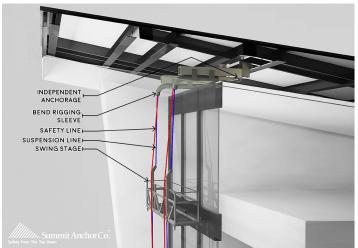




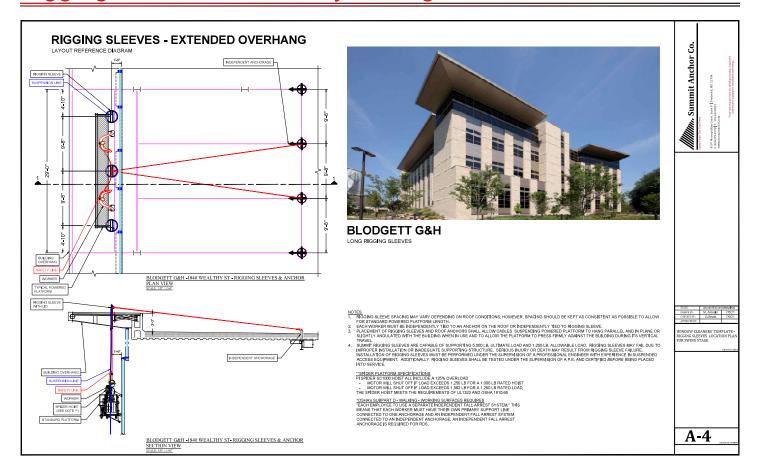
Rigging Sleeves Case Study - Hotel Sierra

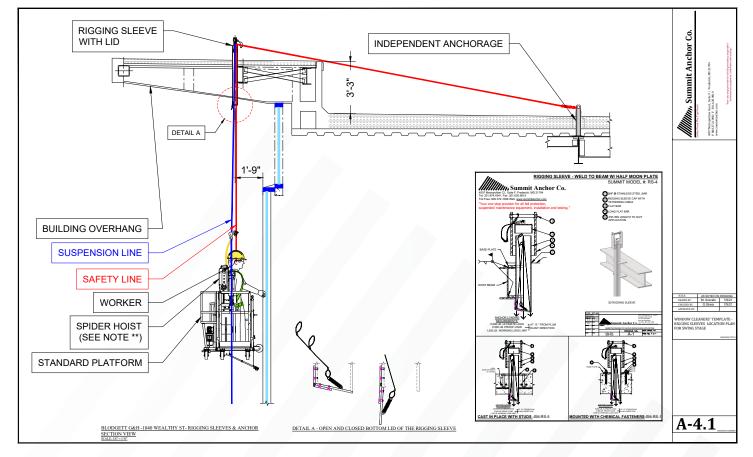




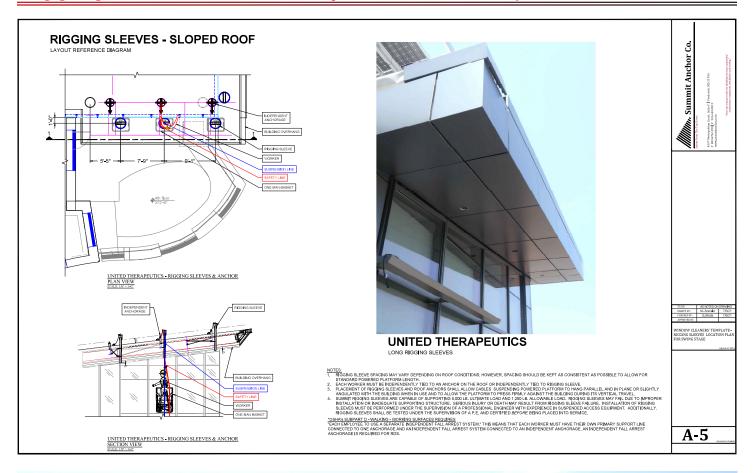


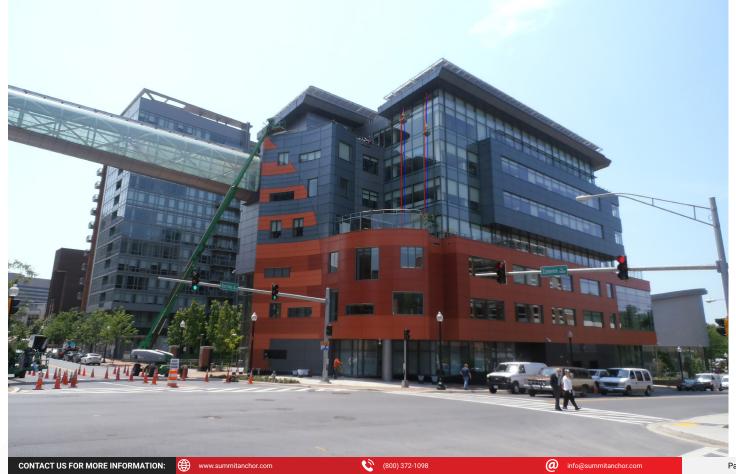
Rigging Sleeves Case Study - Blodgett G & H



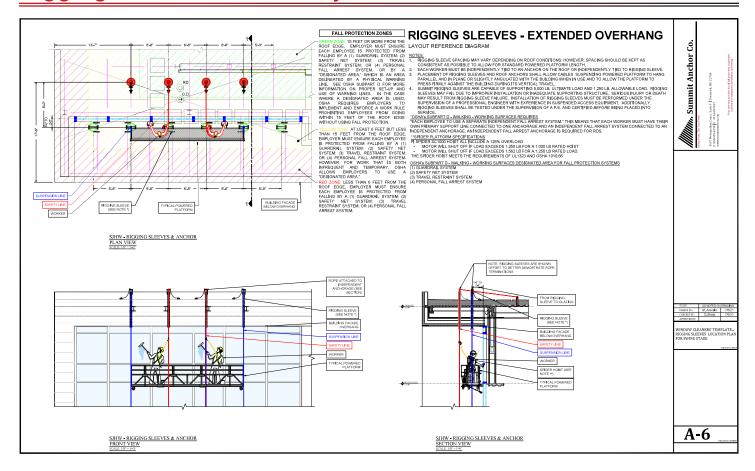


Rigging Sleeves Case Study - United Therapeutics



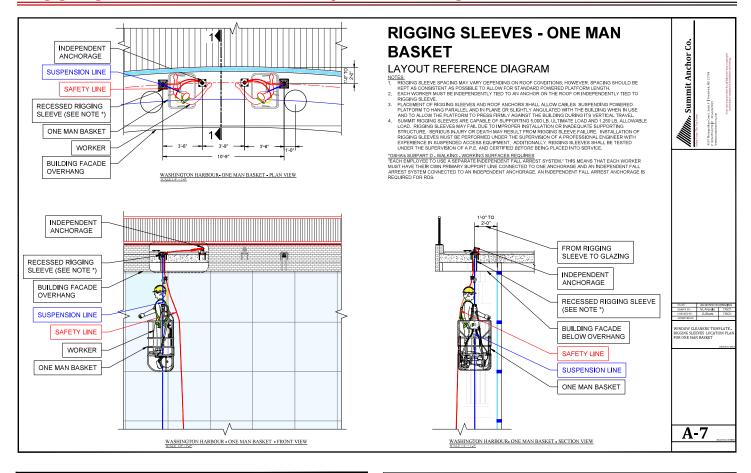


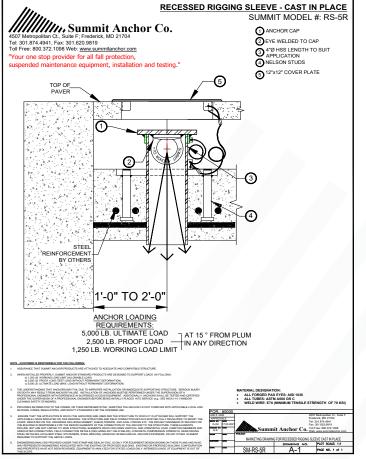
Rigging Sleeves Case Study - SJHW

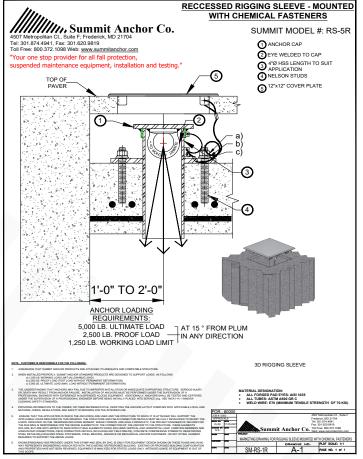


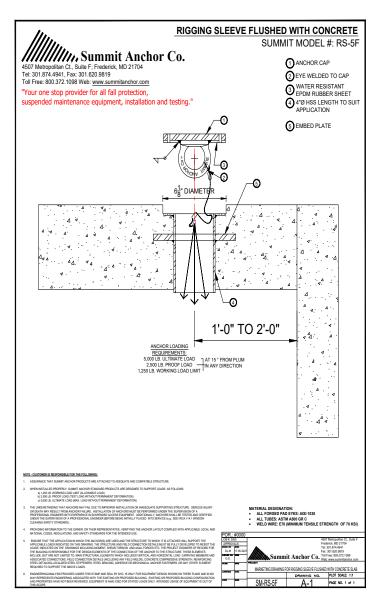


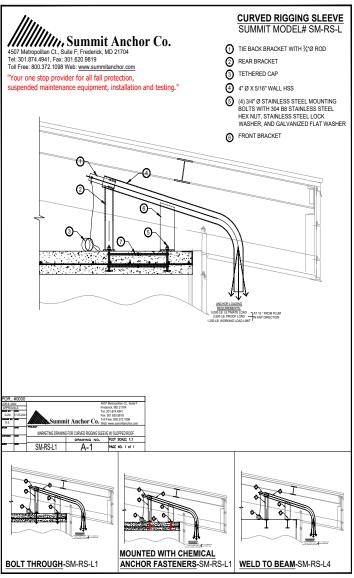
Rigging Sleeves Case Study - Washington Harbor











Advantages of Summit Anchor Co. Rigging Sleeves



- Our rigging sleeves are designed with a steel cap and installed in a way to ensure the building remains watertight, despite roof penetrations.
- · Our rigging sleeves are completely hot-dipped galvanized after fabrication to resist corrosion.
- Our rigging sleeves have been engineered and tested to comply with current OSHA and ANSI I.14.1 safety standards for fall arrest and suspended maintenance.
- Many installation methods are available to suit reinforced concrete or structural steel.

In addition to our standard vertical design, curved, horizontal, and recessed rigging sleeves are also available to suit almost any application.