

1. GENERAL CONTRACTOR, ARCHITECT, AND INSTALLER CHECK IF SUMMIT ANCHOR Co. EQUIPMENT SHOWN ON THIS DRAWING IS OBSTRUCTED BY ROOF EQUIPMENT. REPORT OBSTRUCTIONS THAT WOULD FOUL LINES WHEN TIED-BACK TO ANCHORS. DO NOT PROCEED WITH INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS, INCLUDING OBSTRUCTIONS, HAVE BEEN RESOLVED.

- ARCHITECTURAL/ENGINEER NOTES:

1. SUMMIT ANCHOR CO. ANCHORS ARE MANUFACTURED TO SUPPORT THE LOADS INDICATED BELOW.
 - a. 1,250 LB. WORKING LOAD LIMIT (ALLOWABLE LOAD)
 - b. 2,500 LB. PROOF LOAD (TEST LOAD WITHOUT PERMANENT DEFORMATION)
 - c. 5,000 LB. ULTIMATE LOAD (LOAD AT WHICH POSSIBLE DEFORMATION MAY OCCUR TO ANCHORAGE WITHOUT FRACTURE OR FAILURE)
2. PERFORMANCE OF CABLE SYSTEM WITH ENERGY ABSORBER:
 - a. PEAK DYNAMIC PULLOUT LOAD: 2,500 LBS.
 - b. AVERAGE DYNAMIC PULLOUT LOAD: 2,000 LBS.
 - c. MAXIMUM PULLOUT: 48.5 INCHES
 - d. MINIMUM TENSILE STRENGTH: 5,000 LBS.

3. THE INSTALLED ANCHORS SHALL BE TESTED UNDER THE SUPERVISION OF A P.E. FOR VERIFICATION.

4. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (OF THE BUILDING STRUCTURE) TO DESIGN THE BUILDING STRUCTURE TO WITHSTAND LOADS APPLIED FROM THE PROPOSED WINDOW WASHING/SUSPENDED MAINTENANCE EQUIPMENT, IN ANY DIRECTION APPLIED. THIS TYPICALLY INVOLVES SPECIFYING STRUCTURAL STEEL BRACING FOR STEEL FRAMED STRUCTURES AND ADDITIONAL REINFORCING BAR FOR CONCRETE FRAMED STRUCTURES.

ANCHOR MATERIALS:

- d) FORGED PAD EYES ARE AISI 1030 PER ASTM 576-90-b (FY=72 KSI)
- e) STAINLESS STEEL FORGED PAD EYES ARE 304 SS (FY=35 KSI)
- f) STEEL PLATES ARE A572 GR. 50 (FY=50 KSI) U.N.O.
- g) STAINLESS STEEL FASTENERS ARE TYPE 304 U.N.O.

INSPECTION AND TESTING:

1. SUMMIT ANCHOR Co. EQUIPMENT SHOWN ON THIS DRAWING IS NOT APPROVED FOR USE UNTIL CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. RECERTIFICATION IS REQUIRED AT PERIODS NOT TO EXCEED 10 YEARS (5 YEARS IF EQUIPMENT IS USED IN A HIGHLY SEISMIC AREA). THE RECERTIFICATION SHALL BE PERFORMED BY THE PERSON WHO OBTAINED THE ORIGINAL CERTIFICATION AND RECERTIFICATION OF EQUIPMENT SHALL BE DONE BY A LICENSED PROFESSIONAL ENGINEER. THE PERSON WHO OBTAINS THE RECERTIFICATION SHALL SUBMIT A COPY OF THE RECERTIFICATION LETTER AND SUBSEQUENT ANNUAL INSPECTION REPORTS SHALL BE KEPT BY BUILDING MANAGEMENT IN THE BUILDING'S MAINTENANCE LOG BOOK.
2. ANY SUMMIT ANCHOR Co. EQUIPMENT SUBJECTED TO IMPACT LOADING (FALL ARREST) OR OTHER POSSIBLE DAMAGE SHALL BE INSPECTED BY A LICENSED PROFESSIONAL ENGINEER (LPE) AND IS INSPECTED BY AN LPE AS SPECIFIED BY SUMMIT ANCHOR Co. OR A STRUCTURAL ENGINEER. THIS INSPECTION SHALL BE VERIFIED IN WRITING TO THE BUILDING DEPARTMENT BEFORE THE EQUIPMENT IS REUSED. IF THE INSPECTOR DETERMINES THE DAMAGED EQUIPMENT SHALL BE REPLACED AS SPECIFIED BY SUMMIT ANCHOR Co. OR A STRUCTURAL ENGINEER.







USER NOTES:

1. INDIVIDUALS USING EQUIPMENT—SUPPLIED BY SUMMIT ANCHOR— SHALL BE TRAINED AND COMPETENT IN THE SAFE USE OF SUCH EQUIPMENT, INCLUDING RIGGING AND FALL PROTECTION.
2. SUMMIT ANCHOR Co. EQUIPMENT SHALL BE INSPECTED BY A QUALIFIED PERSON BEFORE EACH USE.
3. SUMMIT ANCHOR Co. EQUIPMENT SHALL BE USED IN ACCORDANCE WITH THE FOLLOWING:
 - a) OSHA 1910, SUBPART D (WALKING AND WORKING SURFACES)
 - b) OSHA 1910, SUBPART F (POWERED PLATFORMS)
 - c) OSHA 1910.66 APPENDIX C (PERSONAL FALL ARREST SYSTEMS)
 - d) OSHA PROCEDURES AND PRECAUTIONS FOR EMPLOYEES USING DESCENT CONTROL EQUIPMENT.
 - e) ANSI/IFCA 1-14.1-2001 (WINDOW CLEANING SAFETY STANDARD)
 - f) ANSI Z359, 2007 AMERICAN NATIONAL STANDARD (SAFETY REQUIREMENTS FOR PERSONAL FALL ARREST SYSTEM, SUBSYSTEMS AND COMPONENTS)
4. WORKERS SHALL BE PROPERLY SECURED TO A SAFETY LINE THAT IS PROPERLY ATTACHED TO A CERTIFIED ANCHOR BEFORE REACHING WITHIN SIX FEET OF THE ROOF EDGE UNLESS A MINIMUM 42" PARAPET OR GUARDRAIL IS PROVIDED.
5. ALL ROPES MUST BE PROTECTED FROM ABRASION OR WEAKENING RESULTING FROM CONTACT FROM SURFACES.
6. IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THE CORRECT PFP EQUIPMENT BASE ON THE WORK PERFORMED.



SCALE: 3/16" = 1'-0"

LEGEND

-  (60) ROOF ANCHORS S.A. MODEL
 CENTER LINE
 (3) RIGGING SLEEVES
 (11) ROOF ANCHORS @ CABLE SYS'
 (6) FALL RESTRAINT CABLE SPANS
 NO ACCESS PROVIDED BY SUMMIT

FALL PROTECTION ZONES:

RED ZONE: 6' OR LESS, 42" GUARDRAIL; SAFETY NET; TRAVEL RESTRAINT; FALL ARREST (NARROW EXCEPTIONS OF PRE- AND POST-WORK INSPECTIONS).

YELLOW ZONE: 6' TO 15'; PROVIDE FULL FALL PROTECTION FOR ROUTINE OR LONG TERM WORK, OR DESIGNATED (AREA E.G., WARNING LINE) FOR TEMPORARY AND INFREQUENT WORK

GREEN ZONE: 15' OR GREATER; PROVIDE FULL FALL PROTECTION OR WARNING LINE AT NO LESS THAN 15' FROM THE EDGE (NO FALL PROTECTION REQUIRED FOR INFREQUENT AND TEMPORARY WORK, IF WORKERS ARE PROHIBITED FROM 15' PERIMETER)

ORANGE ZONE: GUARDRAIL IS REQUIRED AROUND ALL SKYLIGHTS THAT IS NON-MAN-RATED. MAN-RATED NON-SLIP GRATING TO COVER WELL OR GUARDRAIL IS REQUIRED AROUND WELL FOR FALL PROTECTION AS REQUIRED BY OSHA. NO WORKERS SHALL BE PERMITTED TO WORK FROM, STAND OR WALK ON ANY SURFACE, INCLUDING SKYLIGHT, SLOPING AND HORIZONTAL GLASS, THAT IS NOT DESIGNED FOR SUCH LOADING.



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PROJECT INFORMATION

SUBMITTAL				
No.	DATE	DESCRIPTION	DRAWN	CHECKED

SCALE:	3/16"=1'0"	
DRAWN BY:	Kazamanova	02/21/19

CHECKED BY:	M.Apostolov	
APPROVED BY:		

WINDOW CLEANERS' ANCHOR LOCATION PLAN FOR ROPE DESCENT DEVICES

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. _____ EXPIRATION DATE: _____

PRELIMINARY
FOR
REVIEW

THE ENGINEER'S SEAL SIGNIFIES ONLY THAT THE EQUIPMENT

A. WILL WITHSTAND THE LOADS INDICATED ON THIS DRAWING

B. HAVE BEEN TESTED FOR THE INDICATED LOADS.

A-1

DRAFTING NUMBER _____

01321 PROJECT
