


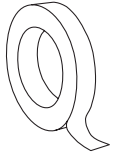
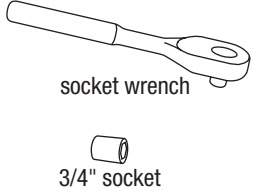
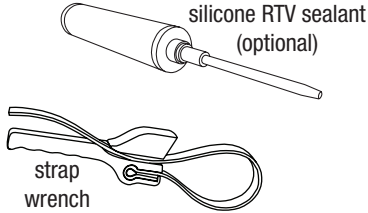
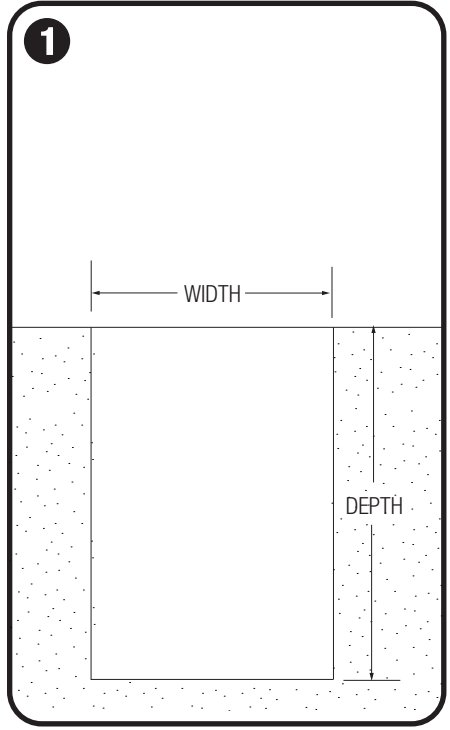


# LIGHT COLUMN BOLLARD

SC40 SECURITY CORE INSTALLATION INSTRUCTIONS

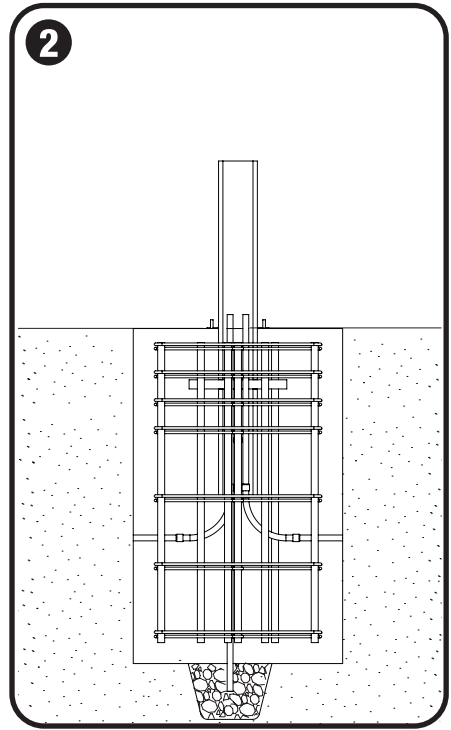
MATERIALS INCLUDED	TOOLS NEEDED		
 <p>a  b </p>	 <p>masking tape</p>	 <p>socket wrench 3/4" socket</p>	 <p>silicone RTV sealant (optional) strap wrench</p>

**STEP BY STEP** FOR ALL LIGHT COLUMN BOLLARDS WITH SC40 SECURITY MOUNTING



**Create space for footer**

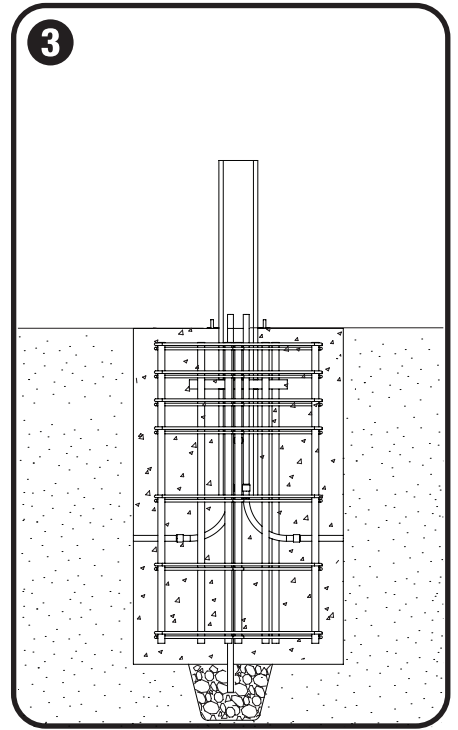
- A sufficient footer size depends on frost and other conditions to be determined by the installer. A minimum of an 30" x 30" wide x 48" deep footer is recommended for a single SC40-P1 bollard installation.



**Prepare foundation and position security core**

- Refer to foundation detail drawings for specifications required to support SC-40 security rating.
- Position security core in desired final location and prepare rebar per foundation drawings.
- The bottom of the base plate should be level with the ground surface.

NOTE: The security core also serves as a conduit path.



**Pour concrete foundation**

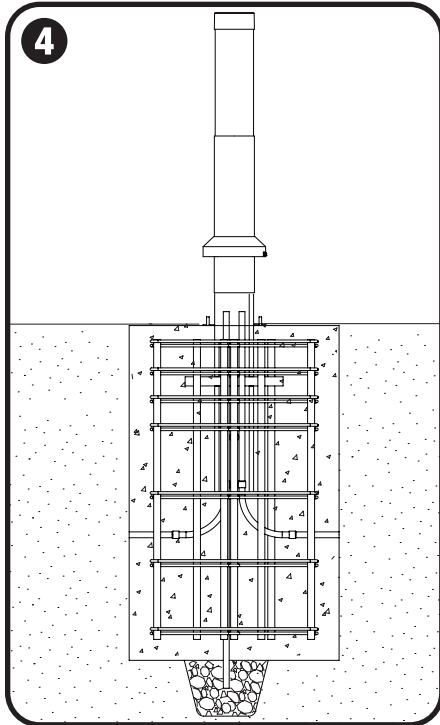
- Mix and pour concrete according to concrete manufacturer's instructions.
- As soon as concrete is poured, verify levelness.
- Allow concrete to cure completely according to concrete manufacturer's instructions before removing any temporary supports or installing fixture.

NOTE: Security core will need to be free of moisture prior to fixture installation.

# LIGHT COLUMN BOLLARD

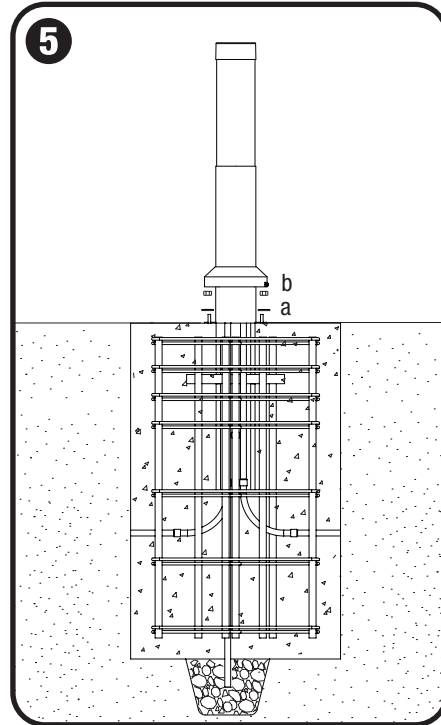
SC40 SECURITY CORE INSTALLATION INSTRUCTIONS

## STEP BY STEP FOR ALL LIGHT COLUMN BOLLARDS WITH SC40 SECURITY MOUNTING



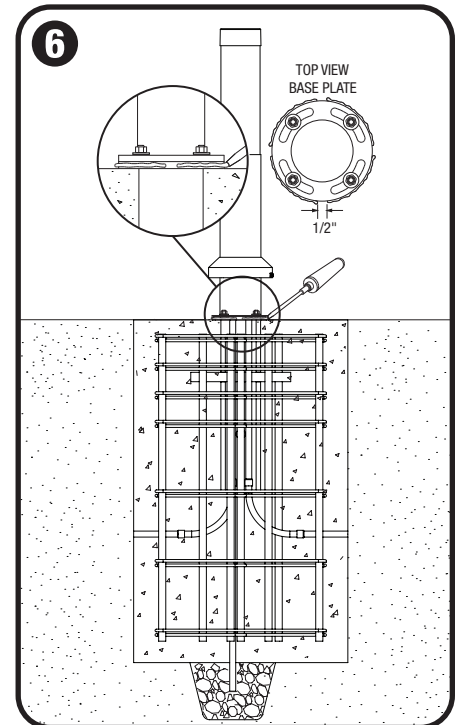
### Position bollard over security core

- Inspect security core for moisture. If moisture is present remove and dry immediately before installing fixture. Do not install fixture unless security core is completely dry.
- Slide bollard over security core so threaded pegs slide through holes in bollard base plate.
- Carefully use masking tape to tape escutcheon cover further up the body until installation is complete.



### Attach bollard to security core

- Slide 1/2" washer (a), then thread 1/2"-13 nut (b) onto each threaded peg.
- Use 3/4" socket and socket wrench to tighten all nuts until snug.

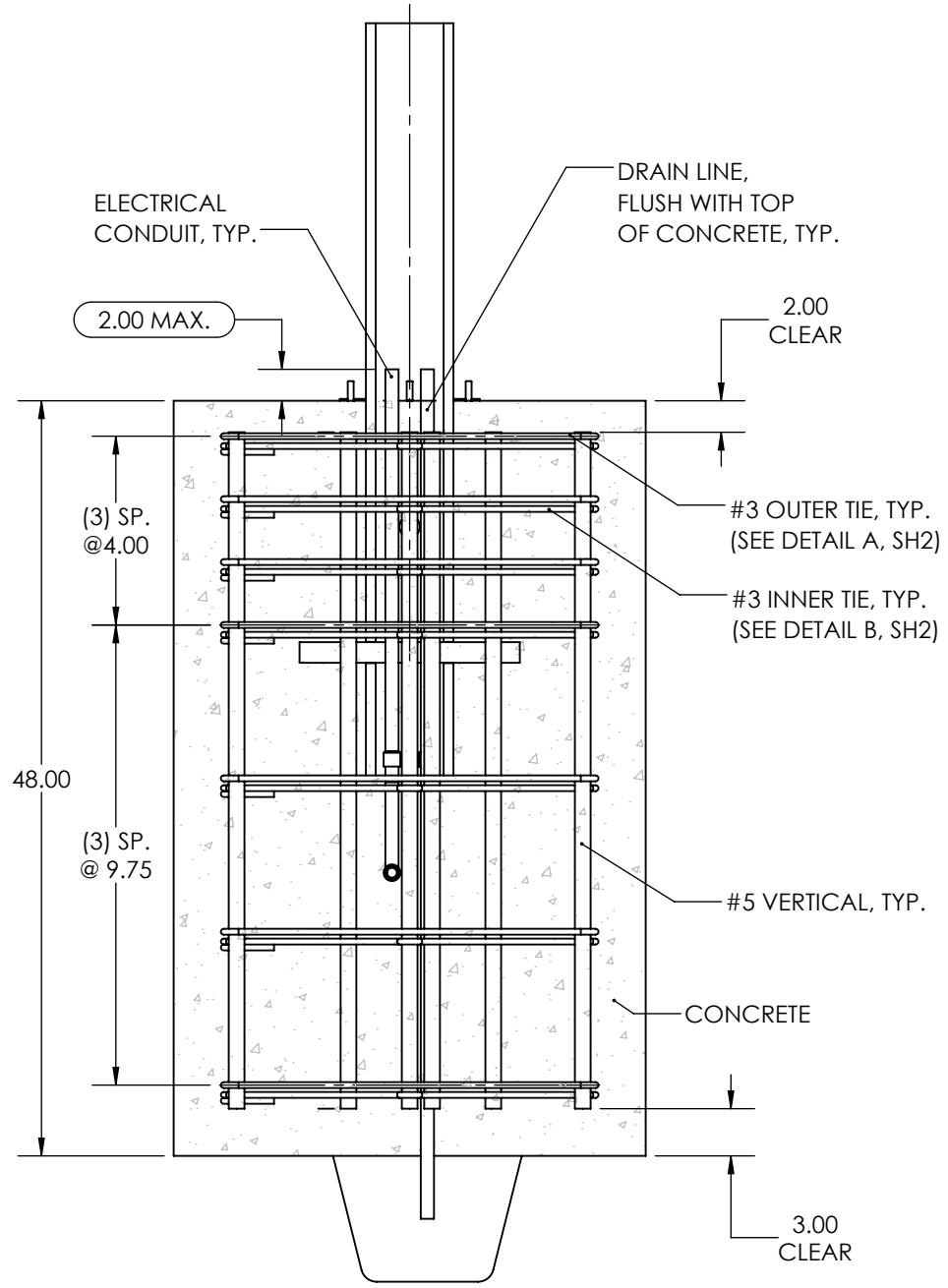


### Apply sealant to permanently attach escutcheon cover (optional) and lower onto base

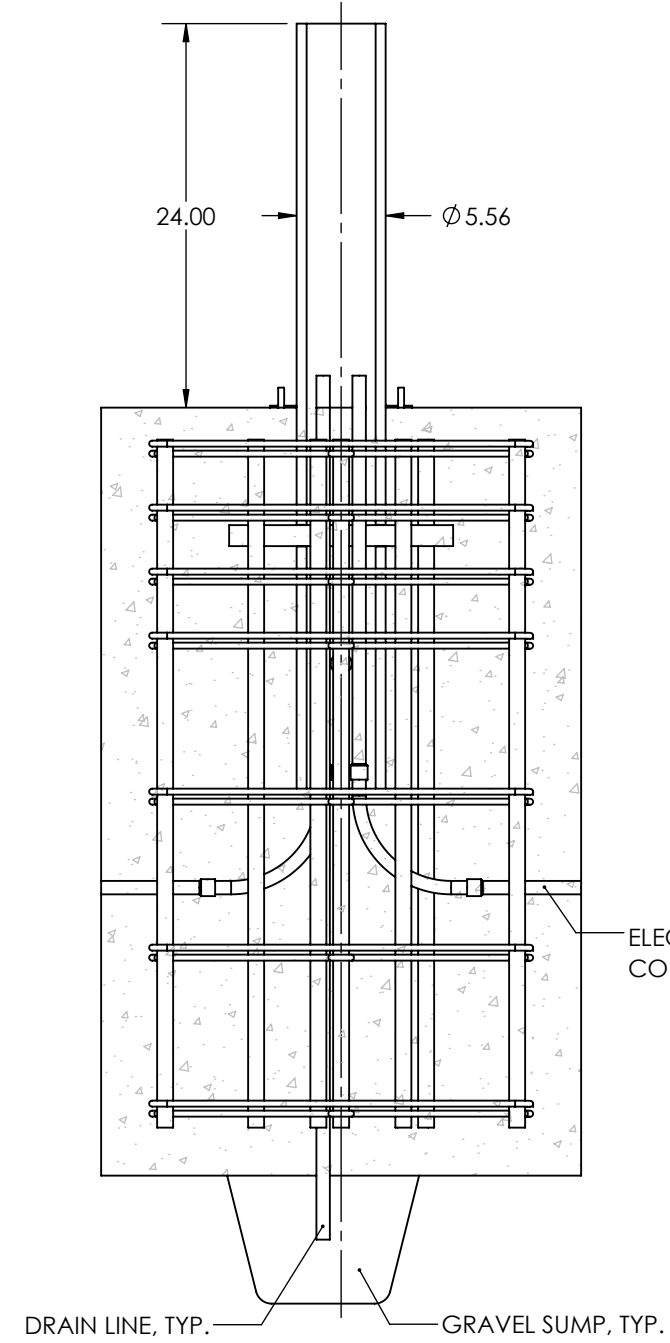
- Apply a thick bead of silicone RTV sealant around the vertical edge of the base plate.  
NOTE: Leave four 1/2" gaps to allow for water drainage.
- Lower escutcheon cover to ground level and wipe away any excess sealant.

8 7 6 5 4 3 2 1

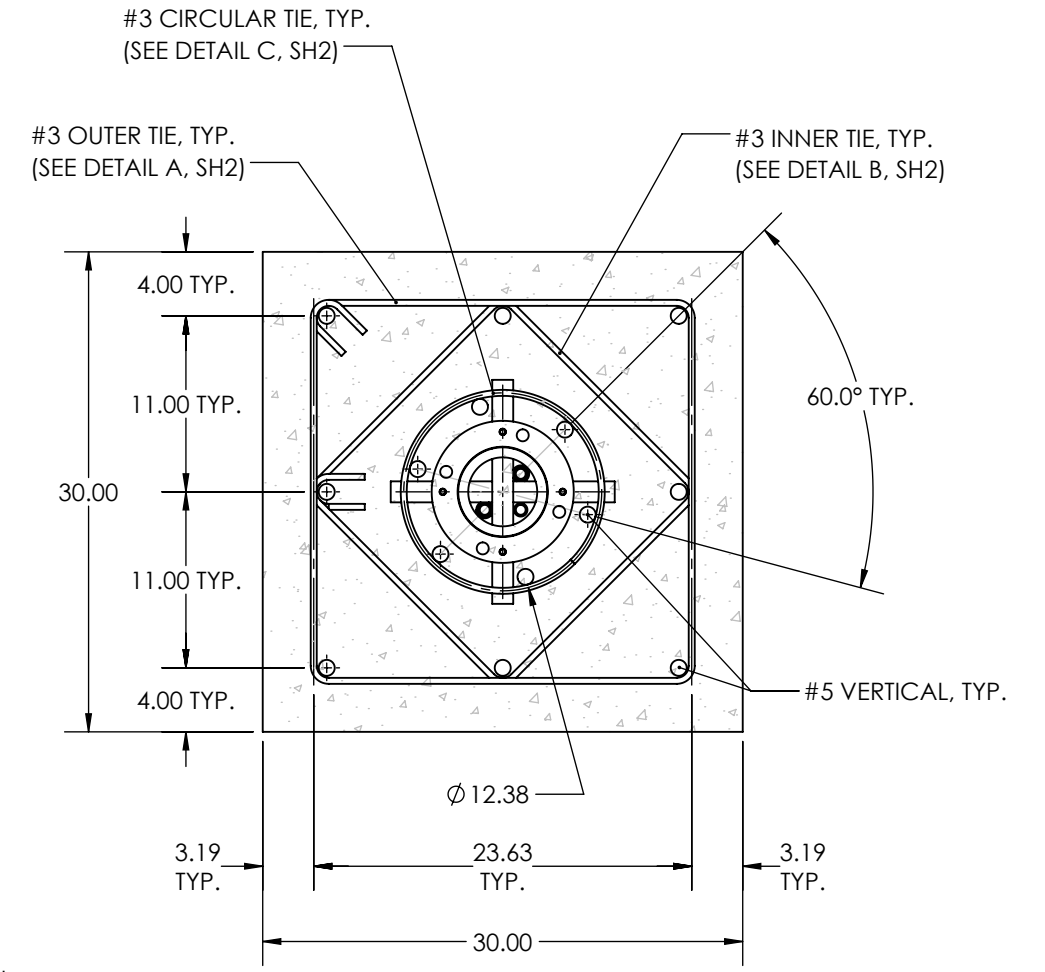
D  
C  
B  
A



END VIEW (PARTIAL SECTION)



SIDE VIEW (PARTIAL SECTION)



PLAN VIEW (PARTIAL SECTION)

UNLESS OTHERWISE SPECIFIED:  
 1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM  
 2. TOLERANCES  
 FRACTIONAL: ±1/32; ANGULAR/BEND: ±1°  
 TWO PLACE DECIMAL ±.030  
 THREE PLACE DECIMAL ±.020  
 3. REMOVE ALL BURRS AND SHARP EDGES  
 THIRD ANGLE PROJECTION  
 MATERIAL: N/A  
 FINISH: N/A  
 WEIGHT: N/A  
 SCALE: NOT TO SCALE

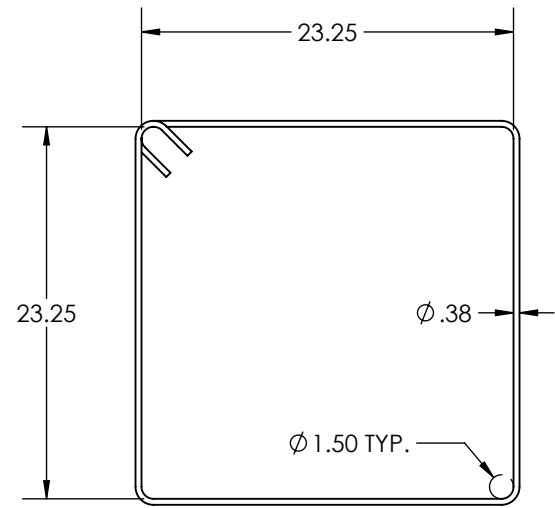
**FORMS+SURFACES** 30 Pine Street, Pittsburgh, PA 15223  
 Tel (412) 781-9003 Fax (412) 781-7840

NAME	DATE
DWN	RTS
CHK	06/02/21

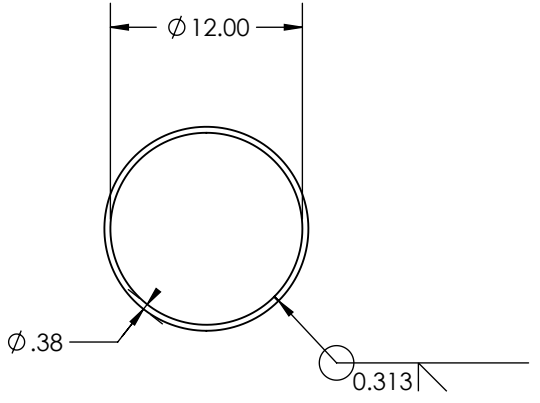
DESCRIPTION:			
<b>FORMS+SURFACES</b>			
<b>SC40 LIGHT COLUMN SECURITY CORE</b>			
<b>STANDALONE FOUNDATION</b>			
SIZE	DWG. NO.	REV	SHEET
B	SC40-LBLCB-SINGLE-INSTALL	0	1 OF 2

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	-----	-----

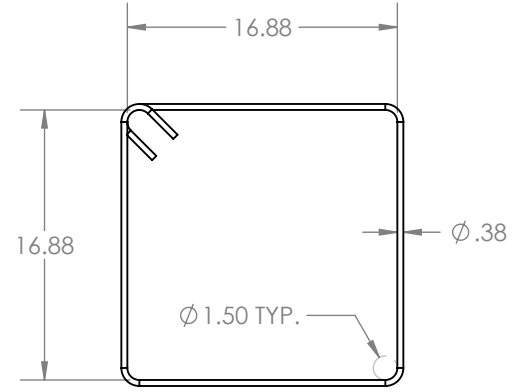
8 7 6 5 4 3 2 1



**DETAIL A  
#3 OUTER TIE, TYP.**



**DETAIL C  
#3 CIRCULAR TIE, TYP.**



**DETAIL B  
#3 INNER TIE, TYP.**

REBAR CHART	
BAR SIZE	DIAMETER
#3	Ø 0.375
#5	Ø 0.625

**NOTES:**

- FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED ENGINEERED FILL ASSUMING A NET BEARING CAPACITY OF 2000 PSF.
- REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) OF THE AMERICAN CONCRETE INSTITUTE (EDITIONS AS REQUIRED BY GOVERNING CODE).
- CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH (F'C) OF 5000 PSI UNO.
- PROVIDE 6% (+/-1.5%) AIR ENTRAINMENT IN CONCRETE EXPOSED TO FREEZE/THAW.
- DEFORMED BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60; SEE CHART FOR SIZING.
- REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS SHALL BE PROVIDED TO FURNISH SUPPORT FOR SPECIFIED BARS.

<b>UNLESS OTHERWISE SPECIFIED:</b> 1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM 2. TOLERANCES FRACTIONAL: ±1/32; ANGULAR/BEND: ±1° TWO PLACE DECIMAL ±.030 THREE PLACE DECIMAL ±.020 3. REMOVE ALL BURRS AND SHARP EDGES		30 Pine Street, Pittsburgh, PA 15223 Tel (412) 781-9003 Fax (412) 781-7840	
MATERIAL: N/A FINISH: N/A WEIGHT: N/A SCALE: NOT TO SCALE		NAME: DWN DATE: 06/02/21 DESCRIPTION: <b>FORMS+SURFACES                  SC40 LIGHT COLUMN SECURITY CORE                  STANDALONE FOUNDATION</b>	
REV. 0 INITIAL RELEASE REV. DESCRIPTION REVISED BY DATE		CHECK: CHK DO NOT SCALE DRAWING PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF FORMS + SURFACES. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT WRITTEN PERMISSION IS PROHIBITED.	
SIZE: B DWG. NO.: SC40-LBLCB-SINGLE-INSTALL REV: 0 SHEET: 2 OF 2			