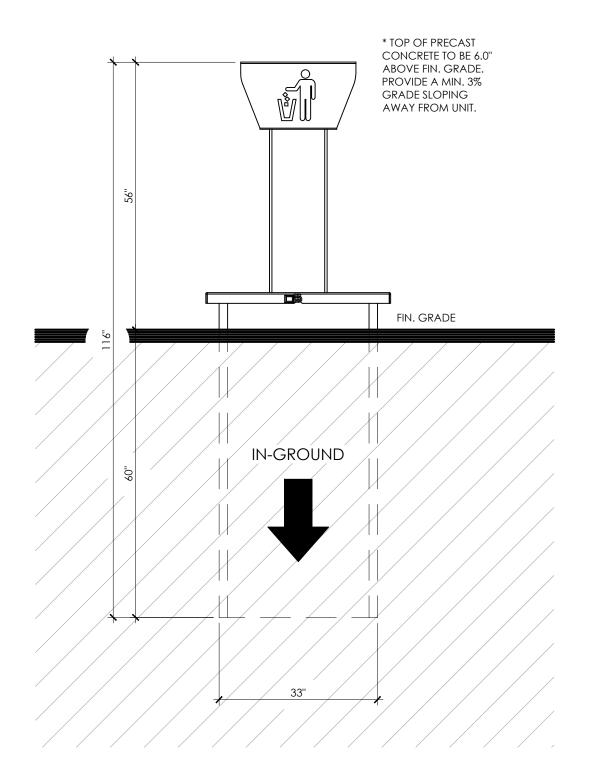


INSTALLATION INSTRUCTIONS FOR SUTERA PRS-1

PARKS AND RECREATION STEEL LID 1 cu.yd. CONTAINMENT CAPACITY





INSTALLATION INSTRUCTIONS

REQUIRED TOOLS, EQUIPMENT, MACHINERY:

- EXCAVATOR
- DUMP TRUCK
 - JUMPING JACK, PLATE COMPACTOR
- BUILDERS LEVEL
- STORY ROD
- HAND LEVEL (6ft.)

STEP No.1 - DETERMINE SITE LOCATION (SEE PG.2)

- a. NO OVERHEAD POWER LINES
- b. NO TREE OVERHANG
- c. NO CANOPY OVERHANG
- $\hbox{d.} \quad \text{HAVE A SITE UTILITY LOCATE (UNDERGROUND) CONDUCTED WITHIN AREA OF PROPOSED INSTALLATION} \\$
- e. BE WITHIN REACH OF SERVICE CRANE TRUCK

STEP No.2 - EXCAVATION (SEE PG.3)

a. TOP OF PRECAST TO BE 6.0" ABOVE FINISHED GRADE. PROVIDE A MIN. 3% GRADE SLOPING AWAY FROM UNIT.

LASER LEVEL

TAPE MEASURE

HAND SHOVEL

HAMMER DRILL

HAND RAKE

- b. EXCAVATE TO THE REQUIRE WIDTH AND DEPTH.
- c. LEVEL AND COMPACT THE BASE OF EXCAVATION.
- d. APPROX. 1.4 cu.yds. OF MATERIAL TO BE REMOVED FROM SITE PER SUTERA DS-1.

STEP No.3 - INSTALLATION OF PRECAST CONCRETE (SEE PG.4)

- a. TAKE DELIVERY OF PRECAST UNITS WITH DELIVERY TRUCK CRANE, SITE CRANE OR EXCAVATOR, WHICHEVER IS AVAILABLE OR REQUIRED.
- b. USING SWIFT LIFT HOOK ANCHORS, 2 PER PRECAST UNIT, LIFT THE PRECAST MONOBASE AND SET INTO PLACE, ENSURE LEVEL, BOTH HORIZ. AND VERT.

LIFTING STRAPS FOR PRECAST CONCRETE AND STEEL LID

- C. ENSURE TOP OF PRECAST IS 6.0" ABOVE FINISHED GRADE, PROVIDE A MIN. 3% GRADE SLOPING AWAY FROM UNIT.
- d. DO NOT ALLOW DEBRIS OR WATER TO ENTER THE OPEN CONCRETE WELL, KEEP CLEAN AND DRY.

STEP No.4 - BACKFILL (SEE PG.5)

- a. Sutera units overall mass exceed the natural forces of hydrostatic pressure and will not float out of the ground, no extra measures are required to keep it in the ground.
- b. BACKFILL WITH NATIVE MATERIAL (EXCAVATED MATERIAL MAY BE USED IF SUITABLE).
- c. COMPACT IN SMALL LAYERS TO ACHIEVE 95% PROCTOR.
- DO NOT ALLOW DEBRIS OR WATER TO ENTER THE OPEN CONCRETE WELL, KEEP CLEAN AND DRY.

STEP No.5 - FASTENING HINGE BRACKET AND LOCK TAB TO PRECAST (SEE PG.6 & 7)

- a. ENSURE LID IS PLACED ON CENTER IN BOTH DIRECTIONS ON TOP OF THE PRECAST CONCRETE PRIOR TO DRILLING ANY HOLES.
- b. INSTALLING THE HINGE BRACKET FIRST, MARK AND DRILL THREE (3) HOLES AS SHOWN, 0.5" DIA. x MIN. 3.0" DEEP.
- c. INSTALL THREE (3) 0.5" x 3.75" CONCRETE WEDGE ANCHORS AND TIGHTEN.
- d. ENSURE PROPER HINGING ACTION, NO BINDING OR TWISTING.
- e. ENSURE LOCK TAB IS IN THE CORRECT LOCATION WHEN THE LARGE STEEL LID IS CLOSED, ALLOW CLEARANCE BETWEEN THE LOCK TAB AND LARGE STEEL LID.
- f. INSTALL LOCK TAB, MARK AND DRILL TWO (2) HOLES AS SHOWN, 0.5" DIA. x MIN. 3.0" DEEP. g. INSTALL TWO (2) 0.5" x 3.75" CONCRETE WEDGE ANCHORS AND TIGHTEN.
- h. ENSURE THE INSTALLED HEIGHT OF THE CONCRETE WEDGE ANCHOR DOES NOT INTERFERE WITH THE CLOSED LID
- STEP No.6 BAG HARDWARE AND CINCHING BAG CLOSED (SEE PG.8)

 a. PULL ROPE TIGHTLY THROUGH THE HEAVY DUTY HOSE ASSEMBLY.
- b. INSERT ROPE HOSE ASSEMBLY BALL INTO BALL SLOT OF CLAMCLEAT.
- C. ENSURE ROPE IS ENGAGED INTO THE TEETH OF THE CLAMCLEAT.
- d. FASTEN ROPE BEHIND THE CLAMCLEAT HOOK.

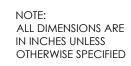
*THE ABOVE STEPS WILL CINCH THE BOTTOM OF THE BAG CLOSED.

- e. PULLING THE ROPE TIGHT, TIE A DOUBLE HALF HITCH KNOT TO THE SECONDARY SAFETY ROPE TIE-OFF.
- f. NEATLY PLACE THE REMAINING ROPE INTO THE ROPE POUCH.

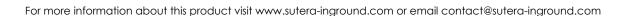
STEP No.7 - INSTALLING STEEL FRAME, PVC BAG & LINER BAG (SEE PG.9)

- a. LIFT STEEL FRAME AND LOWER INSIDE THE ALREADY INSTALLED PRECAST CONCRETE, NOTE THE STEEL FRAME WILL REST ON THE TOP OF THE PRECAST WALL. STEEL FRAME WEIGHT = 60 lbs. (27 kg.)
- D. ENSURE PVC BAG IS CINCHED CLOSED AT THE BOTTOM AS PER STEP 6 ON PREVIOUS PAGE. LOWER BAG INTO THE PRECAST WELL PLACING IT ON THE OUTSIDE OF THE SQUARE STEEL FRAME. LOOP THE NYLON STRAPS OVER THE SQUARE STEEL FRAME AND FASTEN WITH QUICK LINKS IN FOUR (4) LOCATIONS. PVC BAG WEIGHT = 10 lbs. (5 kg.) EMPTY
- *CAUTION* NOT TO PINCH OR TEAR THE BAG WHILE LOWERING IT INTO THE WELL.
- C. INSERT DISPOSABLE BLACK LINER BAG AS SHOWN, LOOPING OVER THE SQUARE STEEL FRAME AND PIERCING THE LINER BAG IN FOUR (4) LOCATIONS TO HOLD IN PLACE.
- d. CLOSE LARGE STEEL LID BY HINGING SHUT, INSTALL PADLOCK.

INSTALLATION IS NOW COMPLETE



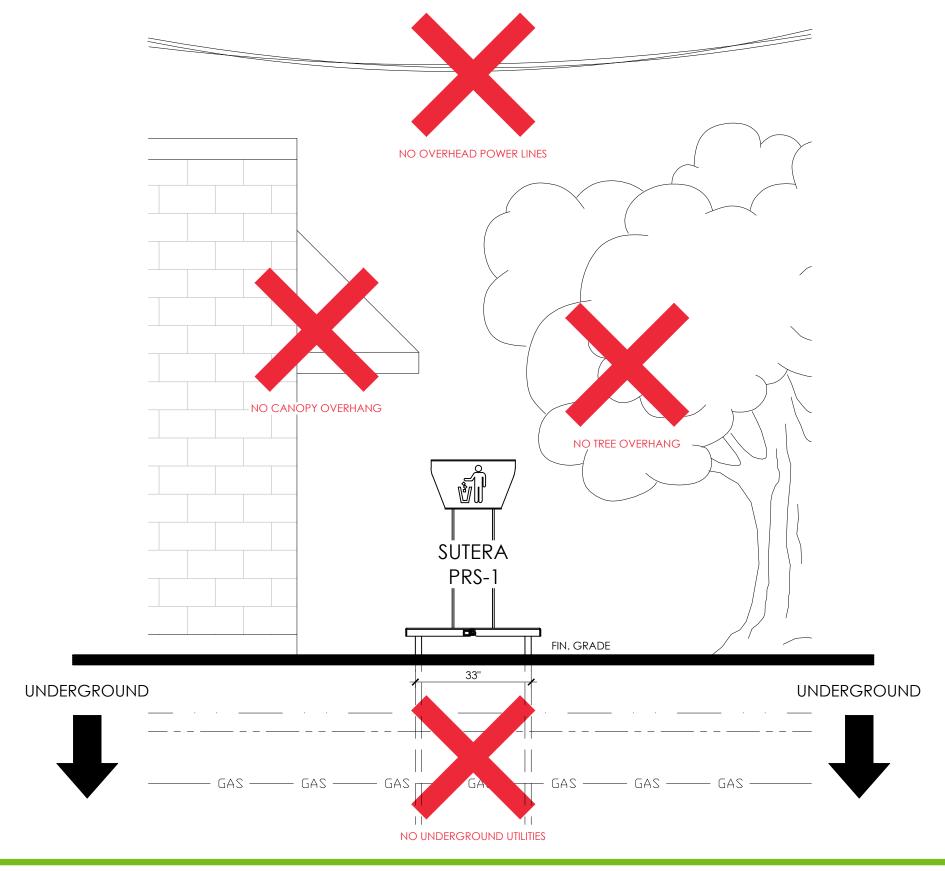
pg. 1 of 9





PRS-

DETERMINE SITE LOCATION



STEP No.1



PRS-1

STEP No.1 - DETERMINE SITE LOCATION

- a. NO OVERHEAD POWER LINES
- b. NO TREE OVERHANG
- c. NO CANOPY OVERHANG
- d. HAVE A SITE UTILITY LOCATE
 (UNDERGROUND) CONDUCTED
 WITHIN AREA OF PROPOSED
 INSTALLATION
- e. BE WITHIN REACH OF SERVICE CRANE TRUCK

NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

pg. 2 of 9

EXCAVATION

STEP No.2

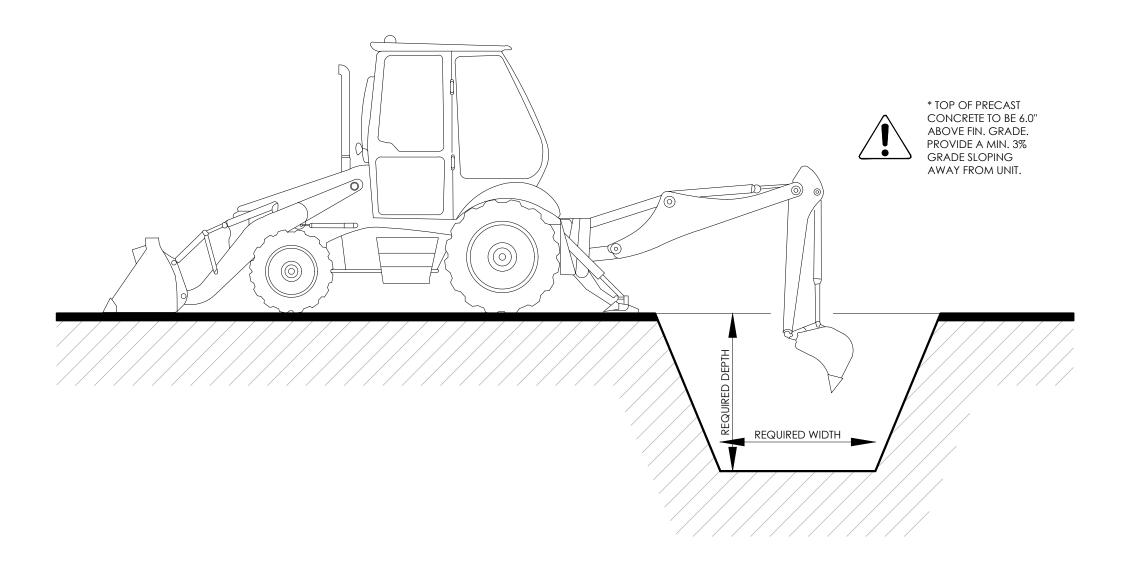


INSTRUCTIONS

PRS-1

STEP No.2 - EXCAVATION

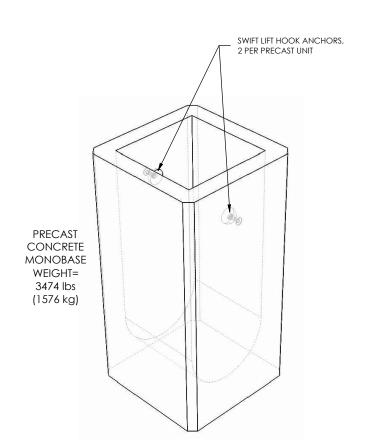
- a. TOP OF PRECAST TO BE 6.0" ABOVE FINISHED GRADE. PROVIDE A MIN. 3% GRADE SLOPING AWAY FROM UNIT.
- b. EXCAVATE TO THE REQUIRE WIDTH AND DEPTH.
- c. LEVEL AND COMPACT THE BASE OF EXCAVATION.
- d. APPROX. 1.4 cu.yds. OF MATERIAL TO BE REMOVED FROM SITE PER SUTERA DS-1.

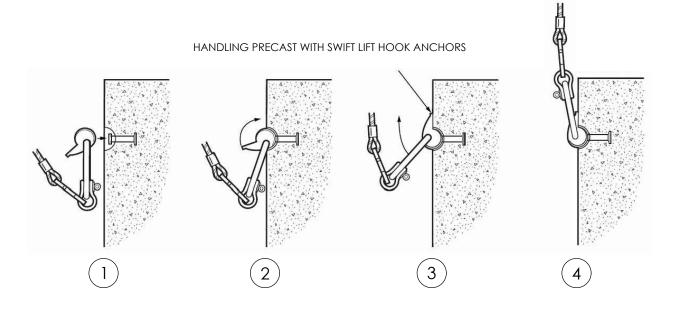


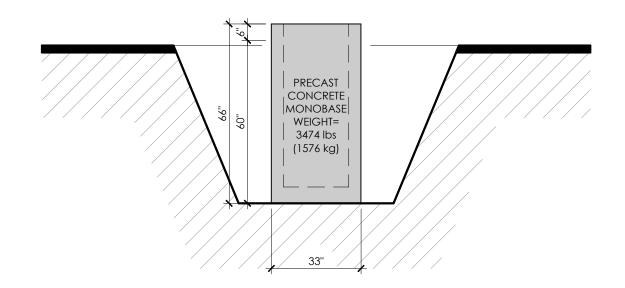
NOTE:
ALL DIMENSIONS ARE
IN INCHES UNLESS
OTHERWISE SPECIFIED

pg. 3 of 9

INSTALLATION OF PRECAST CONCRETE







STEP No.3



INSTALLATION INSTRUCTIONS

PRS-1

STEP No.3 - INSTALLATION OF PRECAST CONCRETE

- a. TAKE DELIVERY OF PRECAST UNITS WITH DELIVERY TRUCK CRANE, SITE CRANE OR EXCAVATOR, WHICHEVER IS AVAILABLE OR REQUIRED.
- USING SWIFT LIFT HOOK ANCHORS, 2
 PER PRECAST UNIT, LIFT THE PRECAST
 MONOBASE AND SET INTO PLACE,
 ENSURE LEVEL, BOTH HORIZ. AND VERT.
- C. ENSURE TOP OF PRECAST IS 6.0" ABOVE FINISHED GRADE, PROVIDE A MIN. 3% GRADE SLOPING AWAY FROM UNIT.
- d. DO NOT ALLOW DEBRIS OR WATER TO ENTER THE OPEN CONCRETE WELL, KEEP CLEAN AND DRY.

NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

pg. 4 of 9

BACKFILL

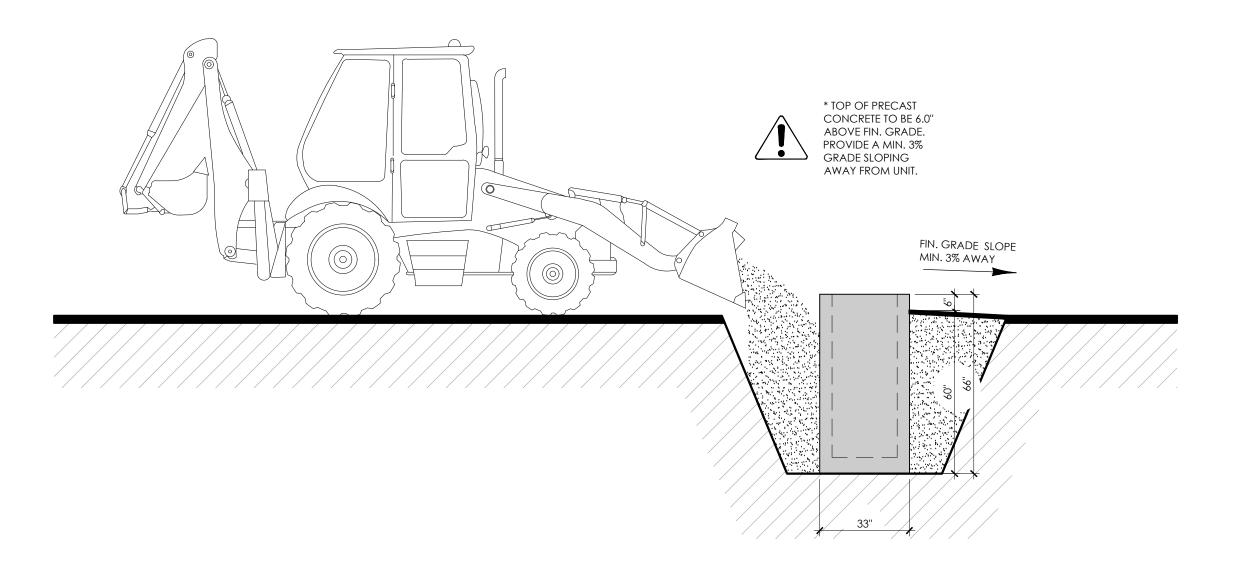
STEP No.4



PRS-1

STEP No.4 - BACKFILL

- a. SUTERA UNITS OVERALL MASS EXCEED
 THE NATURAL FORCES OF HYDROSTATIC
 PRESSURE AND WILL NOT FLOAT OUT OF
 THE GROUND, NO EXTRA MEASURES
 ARE REQUIRED TO KEEP IT IN THE
 GROUND.
- b. BACKFILL WITH NATIVE MATERIAL (EXCAVATED MATERIAL MAY BE USED IF SUITABLE).
- c. COMPACT IN SMALL LAYERS TO ACHIEVE 95% PROCTOR.
- d. DO NOT ALLOW DEBRIS OR WATER TO ENTER THE OPEN CONCRETE WELL, KEEP CLEAN AND DRY.



NOTE:
ALL DIMENSIONS ARE
IN INCHES UNLESS
OTHERWISE SPECIFIED

pg. 5 of 9

FASTENING HINGE BRACKET AND LOCK TAB TO PRECAST

STEP No.5

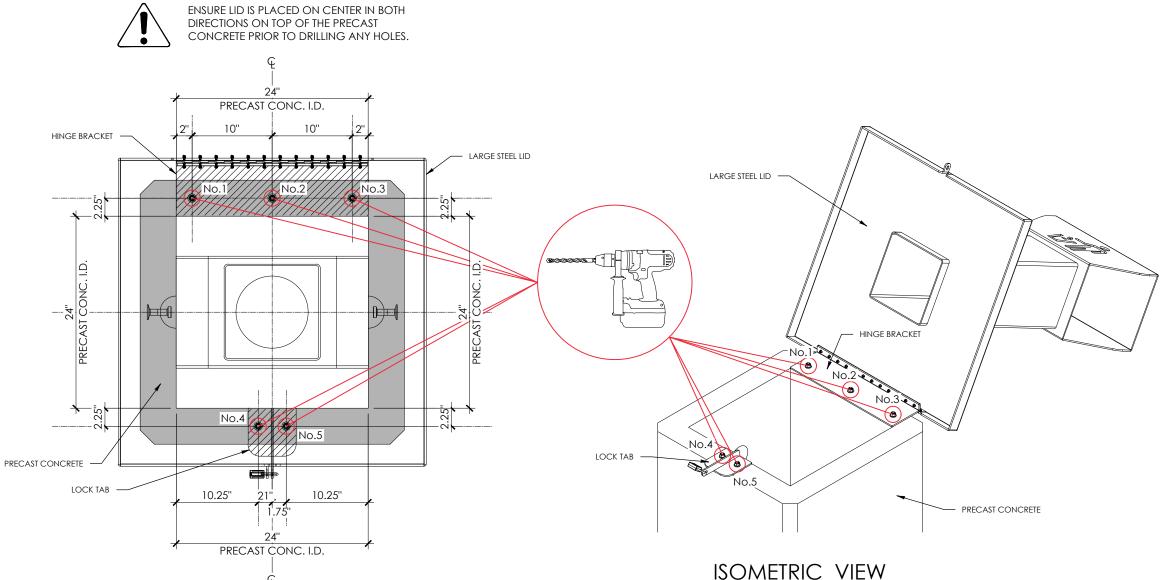


INSTALLATION INSTRUCTIONS

PRS-1

STEP No.5 - FASTENING HINGE BRACKET AND LOCK TAB TO PRECAST.

- a. Ensure Lid is placed on Center in Both directions on top of the Precast concrete Prior to Drilling any Holes.
- b. INSTALLING THE HINGE BRACKET FIRST, MARK AND DRILL THREE (3) HOLES AS SHOWN, 0.5" DIA. x MIN. 3.0" DEEP.
- c. INSTALL THREE (3) 0.5" x 3.75" CONCRETE WEDGE ANCHORS AND TIGHTEN.
- d. ENSURE PROPER HINGING ACTION, NO BINDING OR TWISTING.
- e. ENSURE LOCK TAB IS IN THE CORRECT LOCATION WHEN THE LARGE STEEL LID IS CLOSED, ALLOW CLEARANCE BETWEEN THE LOCK TAB AND LARGE STEEL LID.
- f. INSTALL LOCK TAB, MARK AND DRILL TWO (2) HOLES AS SHOWN, 0.5" DIA. x MIN. 3.0" DEEP.
- g. INSTALL TWO (2) 0.5" x 3.75" CONCRETE WEDGE ANCHORS AND TIGHTEN.



ENSURE LOCK TAB IS IN THE CORRECT LOCATION WHEN THE LARGE STEEL LID IS CLOSED, ALLOW CLEARANCE BETWEEN THE LOCK TAB AND LARGE STEEL LID.

TOP VIEW

NOTE:
ALL DIMENSIONS ARE
IN INCHES UNLESS
OTHERWISE SPECIFIED

pg. 6 of 9

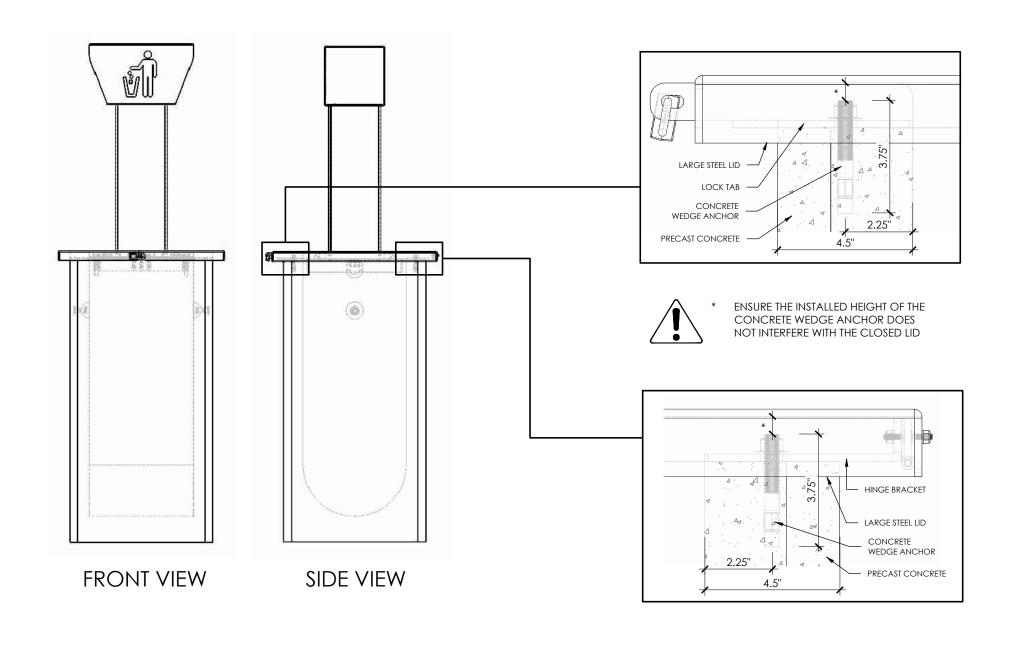
FASTENING HINGE BRACKET AND LOCK TAB TO PRECAST CONTINUED





PRS-1

STEP No.5 CONT'D - FASTENING HINGE
BRACKET AND LOCK TAB TO PRECAST.
h. ENSURE THE INSTALLED HEIGHT OF THE
CONCRETE WEDGE ANCHOR DOES
NOT INTERFERE WITH THE CLOSED LID



NOTE:
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IN INCHES UNLESS
OTHERWISE SPECIFIED

pg. 7 of 9

BAG HARDWARE AND CINCHING BAG CLOSED

STEP No.6



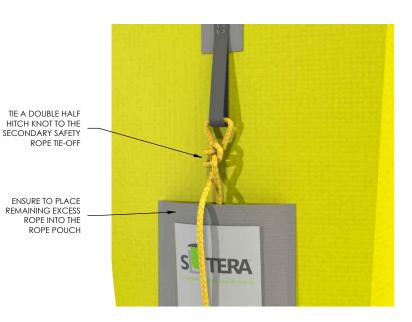
PRS-1

STEP No.6 - BAG HARDWARE AND CINCHING BAG CLOSED

- a. PULL ROPE TIGHTLY THROUGH THE HEAVY DUTY HOSE ASSEMBLY.
- b. INSERT ROPE HOSE ASSEMBLY BALL INTO BALL SLOT OF CLAMCLEAT.
- c. ENSURE ROPE IS ENGAGED INTO THE TEETH OF THE CLAMCLEAT.
- d. FASTEN ROPE BEHIND THE CLAMCLEAT HOOK.

*THE ABOVE STEPS WILL CINCH THE BOTTOM OF THE BAG CLOSED.

- PULLING THE ROPE TIGHT, TIE A DOUBLE HALF HITCH KNOT TO THE SECONDARY SAFETY ROPE TIE-OFF.
- f. NEATLY PLACE THE REMAINING ROPE INTO THE ROPE POUCH.



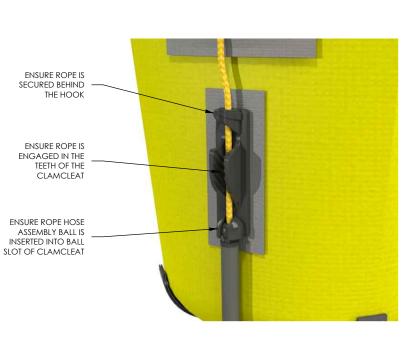
SECONDARY SAFETY

LAMCLEAT

HEAVY DUTY

BAG CINCHING

TERA





DOUBLE HALF HITCH KNOT INSTRUCTIONS

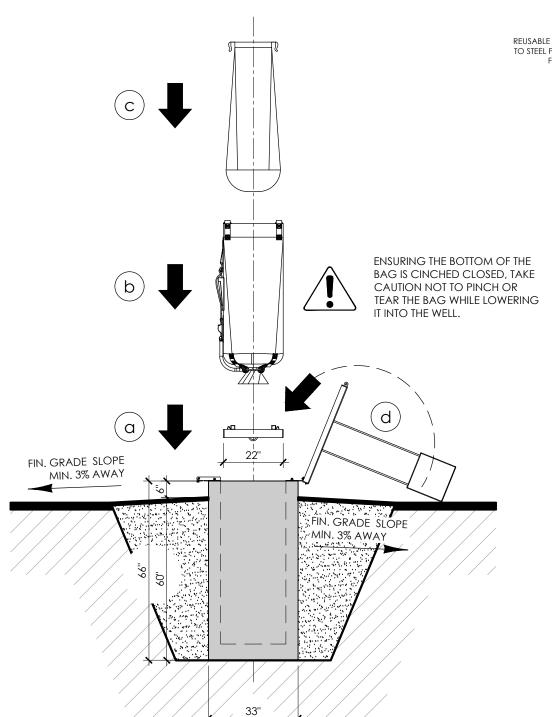
WHEN THE ROPE IS
PULLED TIGHT AND
SECURED IN THE
CLAMCLEAT, THE
BOTTOM OF THE BAG
IS CINCHED CLOSED

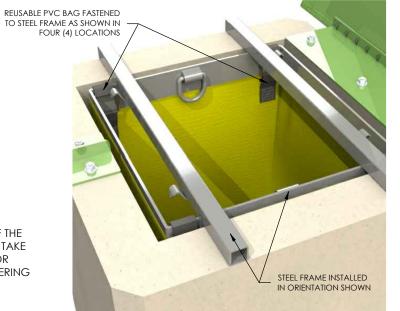
NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

pg. 8 of 9

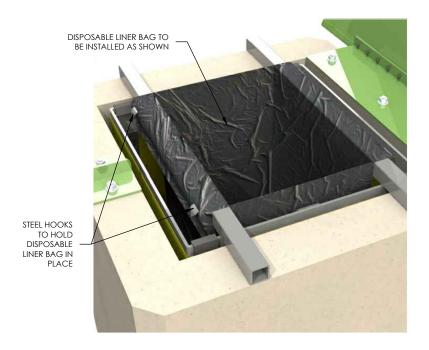
INSTALLING STEEL FRAME, PVC BAG & LINER BAG

STEP No.7











PRS-1

STEP No.7 - INSTALLING STEEL FRAME, PVC BAG & LINER BAG

- a. LIFT STEEL FRAME AND LOWER INSIDE
 THE ALREADY INSTALLED PRECAST
 CONCRETE, NOTE THE STEEL FRAME WILL
 REST ON THE TOP OF THE PRECAST
 WALL. STEEL FRAME WEIGHT = 60 lbs. (27 kg.)
- b. ENSURE PVC BAG IS CINCHED CLOSED AT THE BOTTOM AS PER STEP 6 ON PREVIOUS PAGE. LOWER BAG INTO THE PRECAST WELL PLACING IT ON THE OUTSIDE OF THE SQUARE STEEL FRAME. LOOP THE NYLON STRAPS OVER THE SQUARE STEEL FRAME AND FASTEN WITH QUICK LINKS IN FOUR (4) LOCATIONS. PVC BAG WEIGHT = 10 lbs. (5 kg.) EMPTY

CAUTION NOT TO PINCH OR TEAR THE BAG WHILE LOWERING IT INTO THE WELL.

- C. INSERT DISPOSABLE BLACK LINER BAG AS SHOWN, LOOPING OVER THE SQUARE STEEL FRAME AND PIERCING THE LINER BAG IN FOUR (4) LOCATIONS TO HOLD IN PLACE.
- d. CLOSE LARGE STEEL LID BY HINGING SHUT, INSTALL PADLOCK.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED

pg. 9 of 9



ENSURE THE FOLLOWING IS DONE PRIOR TO COMPLETION:

- ENSURE ALL DEBRIS AND WASTE IS REMOVED CAUSED BY INSTALLATION.
- WIPE CLEAN ENTIRE UNIT WITH CLEAN RAG AND MILD DETERGENT.
- SPRAY ALL EXPOSED STEEL WITH KROWN RUST PROOFING & LUBRICANT. DO NOT WIPE OFF IMMEDIATELY, ALLOW TO PENETRATE FOR 24 HRS.
 SPRAY ALL MOVING COMPONENTS, KEY HOLE AND PIANO HINGE WITH WHITE LITHIUM GREASE.

INSTALLATION IS COMPLETE