



INSTALLATION INSTRUCTIONS FOR SUTERA SP-6

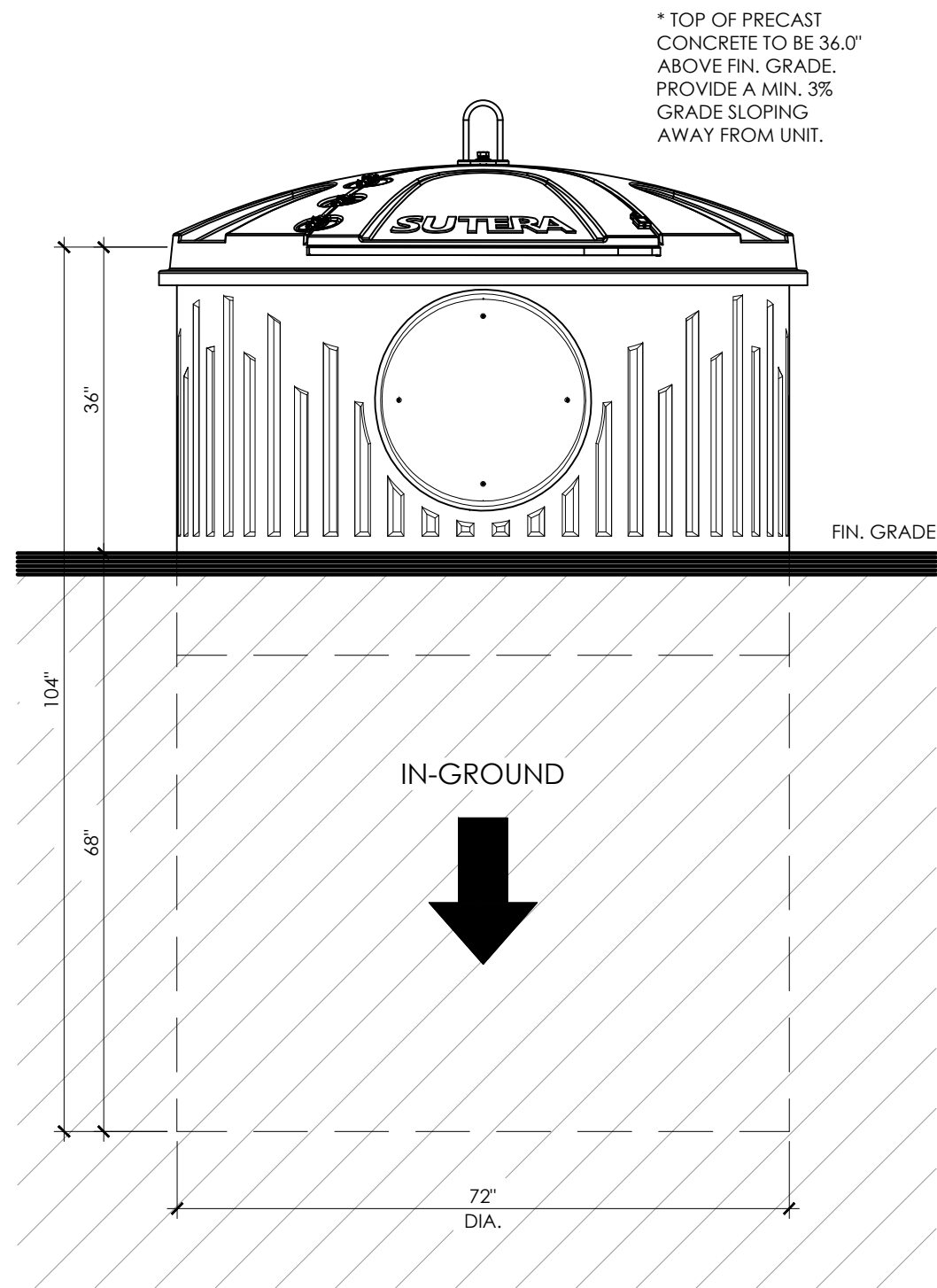
SEMI IN-GROUND PLASTIC LID 6 cu.yd. CONTAINMENT CAPACITY





INSTALLATION INSTRUCTIONS

SP-6



INSTALLATION INSTRUCTIONS

REQUIRED TOOLS, EQUIPMENT, MACHINERY:

- EXCAVATOR
- DUMP TRUCK
- JUMPING JACK, PLATE COMPACTOR
- BUILDERS LEVEL
- STORY ROD
- HAND LEVEL (6ft.)
- LASER LEVEL
- TAPE MEASURE
- HAND SHOVEL
- HAND RAKE
- LIFTING STRAPS FOR PRECAST CONCRETE AND STEEL LID

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

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

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

- TOP OF PRECAST TO BE 36.0" ABOVE FINISHED GRADE. PROVIDE A MIN. 3% GRADE SLOPING AWAY FROM UNIT.
- EXCAVATE TO THE REQUIRE WIDTH AND DEPTH.
- LEVEL AND COMPACT THE BASE OF EXCAVATION.
- APPROX. 5.9 cu.yds. OF MATERIAL TO BE REMOVED FROM SITE PER SUTERA SP-6.

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

- 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.
- INSTALL THE CONTINUOUS WATER TIGHT GASKET.
- USING SWIFT LIFT HOOK ANCHORS, 2 PER PRECAST UNIT, LIFT THE PRECAST RISER AND SET INTO PLACE, ENSURE LEVEL, BOTH HORIZ. AND VERT.
- ENSURE TOP OF PRECAST IS 36.0" ABOVE FINISHED GRADE. PROVIDE A MIN. 3% GRADE SLOPING AWAY FROM UNIT.
- DO NOT ALLOW DEBRIS OR WATER TO ENTER THE OPEN CONCRETE WELL, KEEP CLEAN AND DRY.

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

- 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.
- BACKFILL WITH NATIVE MATERIAL (EXCAVATED MATERIAL MAY BE USED IF SUITABLE).
- 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 - BAG HARDWARE AND CINCHING BAG CLOSED (SEE PG.6)

- PULL ROPE TIGHTLY THROUGH THE HEAVY DUTY HOSE ASSEMBLY.
 - INSERT ROPE HOSE ASSEMBLY BALL INTO BALL SLOT OF CLAMCLEAT.
 - ENSURE ROPE IS ENGAGED INTO THE TEETH OF THE CLAMCLEAT.
 - 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.
 - NEATLY PLACE THE REMAINING ROPE INTO THE ROPE POUCH.

STEP No.6 - INSTALLING STEEL FRAME, PVC BAG, LID & LIFT HOOK

- 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 = 150 lbs. (68 kg.)
- ENSURE PVC BAG IS CINCHED CLOSED AT THE BOTTOM AS PER STEP 5 ON PREVIOUS PAGE. LOWER BAG INTO THE PRECAST WELL PLACING IT ON THE OUTSIDE OF THE ROLLED STEEL FRAME. LOOP THE NYLON STRAPS OVER THE ROLLED STEEL FRAME AND FASTEN WITH SQUARE HELIX IN EIGHT (8) LOCATIONS. PVC BAG WEIGHT = 25 lbs. (11 kg.) EMPTY

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

- LIFT THE PLASTIC LID INTO PLACE, ALIGNING IT ON CENTER. PLASTIC LID WEIGHT = 60 lbs. (27 kg.)
- PLACE THE LIFT HOOK IN PLACE AND FASTEN WITH PROVIDED BOLT.

STEP No.7 - IDENTIFICATION SIGNAGE

- 24" inch DIA. 3M LABEL MOUNTED ON PRE-ROLLED ALUMINUM PLATE.
- FOUR (x4) STAINLESS STEEL TAMPER RESISTANCE SCREWS, LOCK WASHERS AND OVERSIZED WASHERS HOLD SIGN IN PLACE.
- FOUR (x4) THREADED FERRULE LOOPS ARE CAST INTO THE CONCRETE, NO DRILLING REQUIRED.
- PRE LUBRICATE (WD-40 OR SIMILAR) THE THREADED FERRULE LOOP HOLES PRIOR TO INSTALLING THE SCREWS.
- ALIGN AND CENTER THE ALUMINUM SIGN PLATE PRIOR TO TIGHTENING.
- DO NOT OVER TIGHTEN THE SCREWS.

STEP No.8 - EYE TAB FOR PADLOCK

- STAINLESS STEEL EYE TAB COMES PRE-ASSEMBLED AND ATTACHED TO THE PLASTIC LID TO ACCEPT A STANDARD PADLOCK FOR LOCKING THE ACCESS LID SHUT.
- ALL FASTENERS; TAMPER RESISTANT SCREWS, LOCK WASHERS AND WASHERS ARE STAINLESS STEEL.

INSTALLATION IS NOW COMPLETE

NOTE:
ALL DIMENSIONS ARE
IN INCHES UNLESS
OTHERWISE SPECIFIED

DETERMINE SITE LOCATION

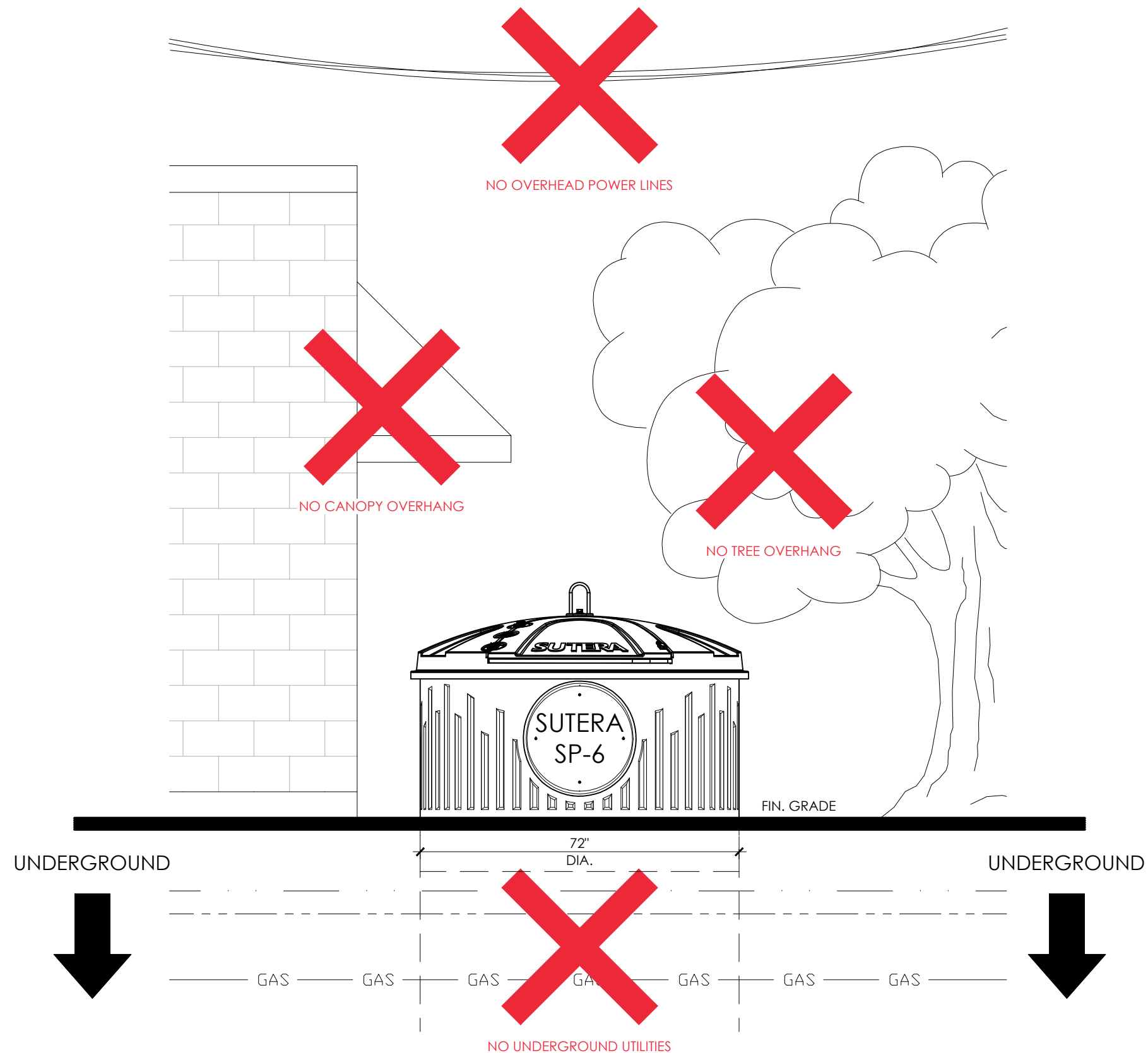
STEP No.1



INSTALLATION INSTRUCTIONS

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- 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



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EXCAVATION

STEP No.2



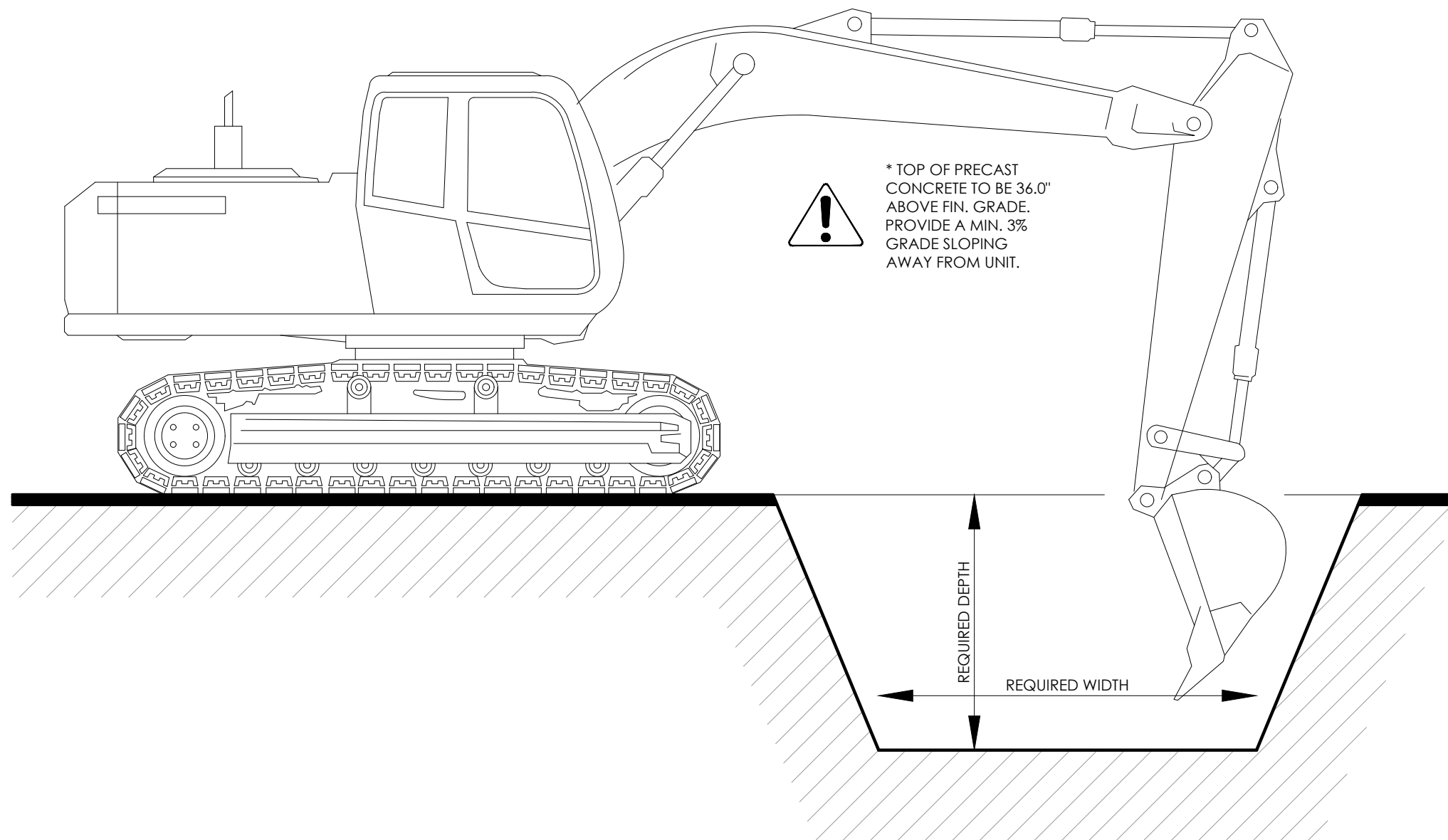
INSTALLATION INSTRUCTIONS

SP-6

- STEP No.2 - EXCAVATION
- a. TOP OF PRECAST TO BE 36.0" 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. 5.9 cu.yds. OF MATERIAL TO BE REMOVED FROM SITE PER SUTERA SP-6.

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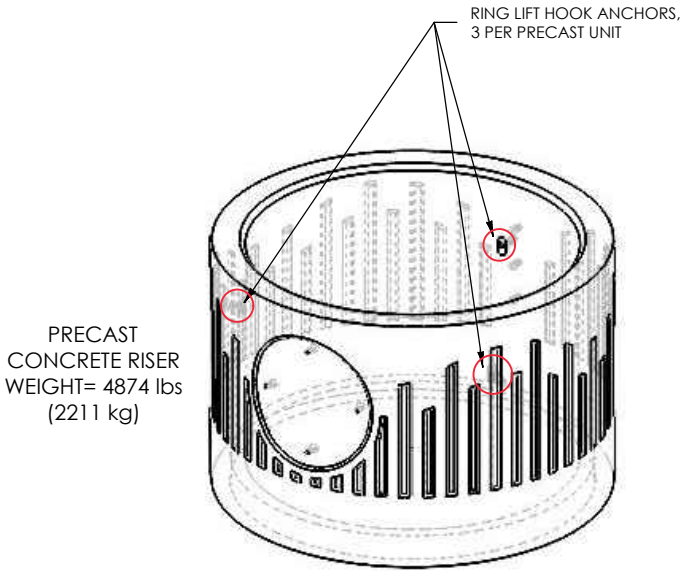
INSTALLATION OF PRECAST CONCRETE

STEP No.3

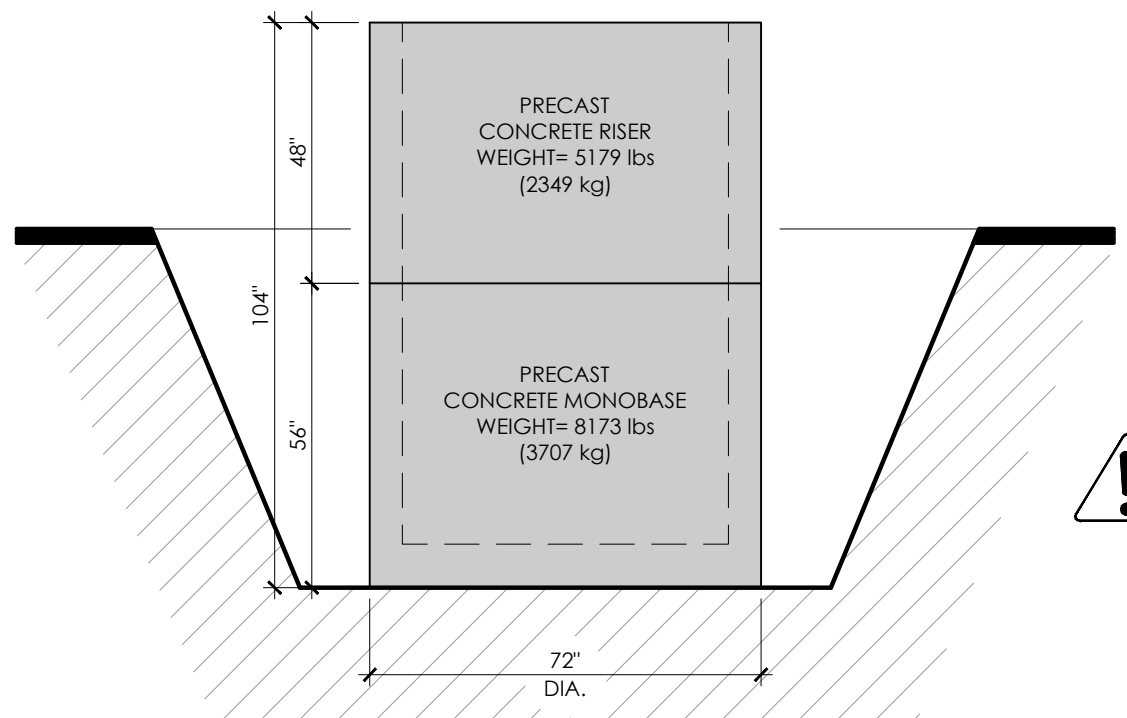
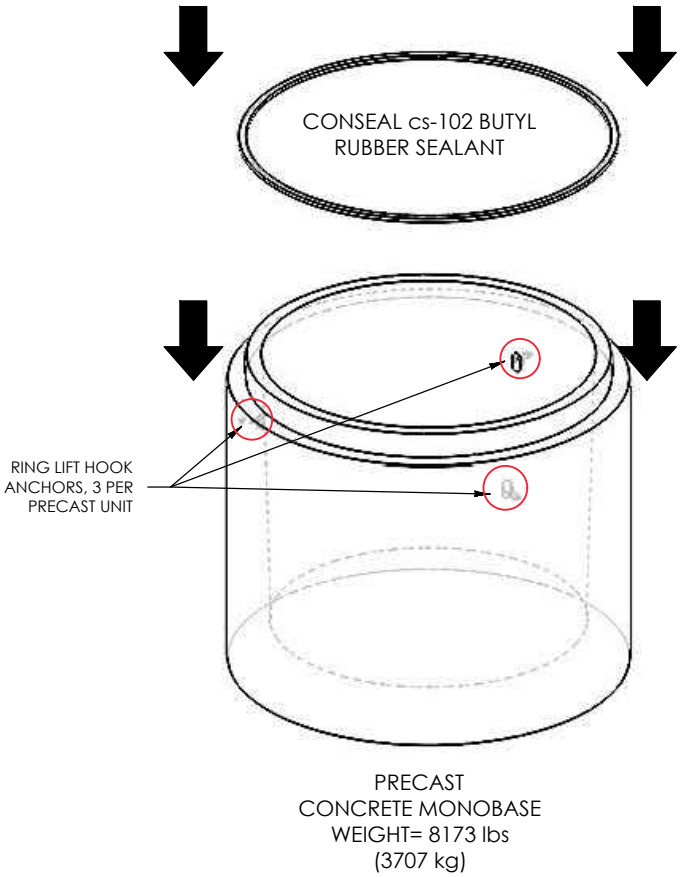
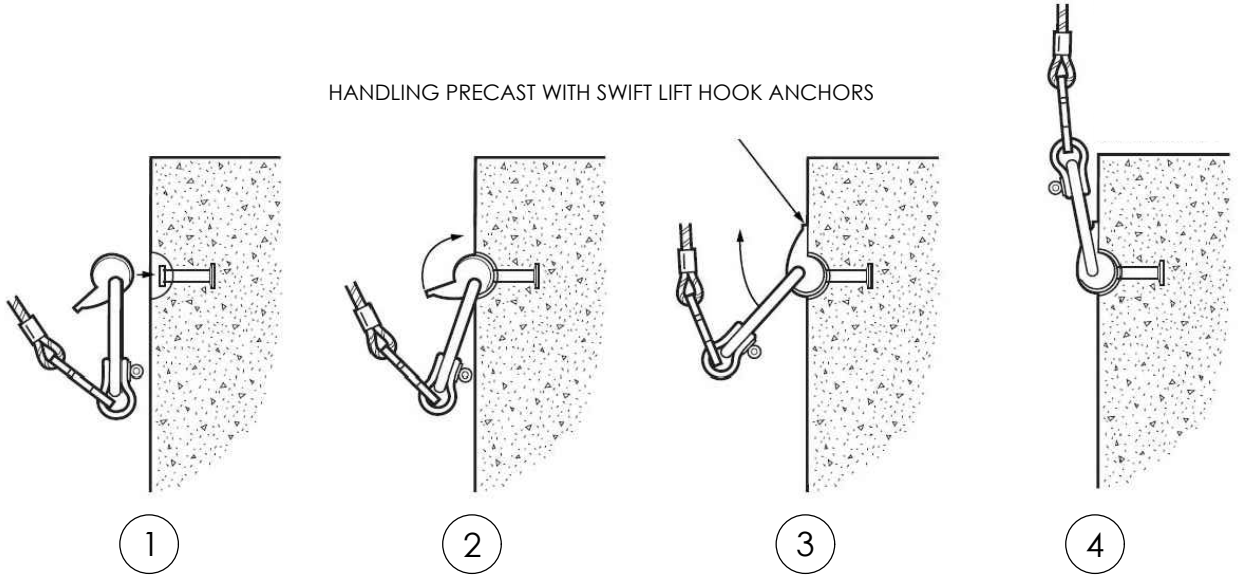


INSTALLATION INSTRUCTIONS

SP-6



HANDLING PRECAST WITH SWIFT LIFT HOOK ANCHORS



* ENSURE CONTINUOUS WATER TIGHT GASKET IS INSTALLED PRIOR TO SETTING PRECAST CONCRETE RISER IN PLACE.

- 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.
 - b. USING SWIFT LIFT HOOK ANCHORS, 2 PER PRECAST UNIT, LIFT THE PRECAST MONOBASE AND SET INTO PLACE, ENSURE LEVEL, BOTH HORIZ. AND VERT.
 - c. INSTALL THE CONTINUOUS WATER TIGHT GASKET.
 - d. USING SWIFT LIFT HOOK ANCHORS, 2 PER PRECAST UNIT, LIFT THE PRECAST RISER AND SET INTO PLACE, ENSURE LEVEL, BOTH HORIZ. AND VERT.
 - e. ENSURE TOP OF PRECAST IS 36.0" ABOVE FINISHED GRADE, PROVIDE A MIN. 3% GRADE SLOPING AWAY FROM UNIT.
 - f. DO NOT ALLOW DEBRIS OR WATER TO ENTER THE OPEN CONCRETE WELL, KEEP CLEAN AND DRY.

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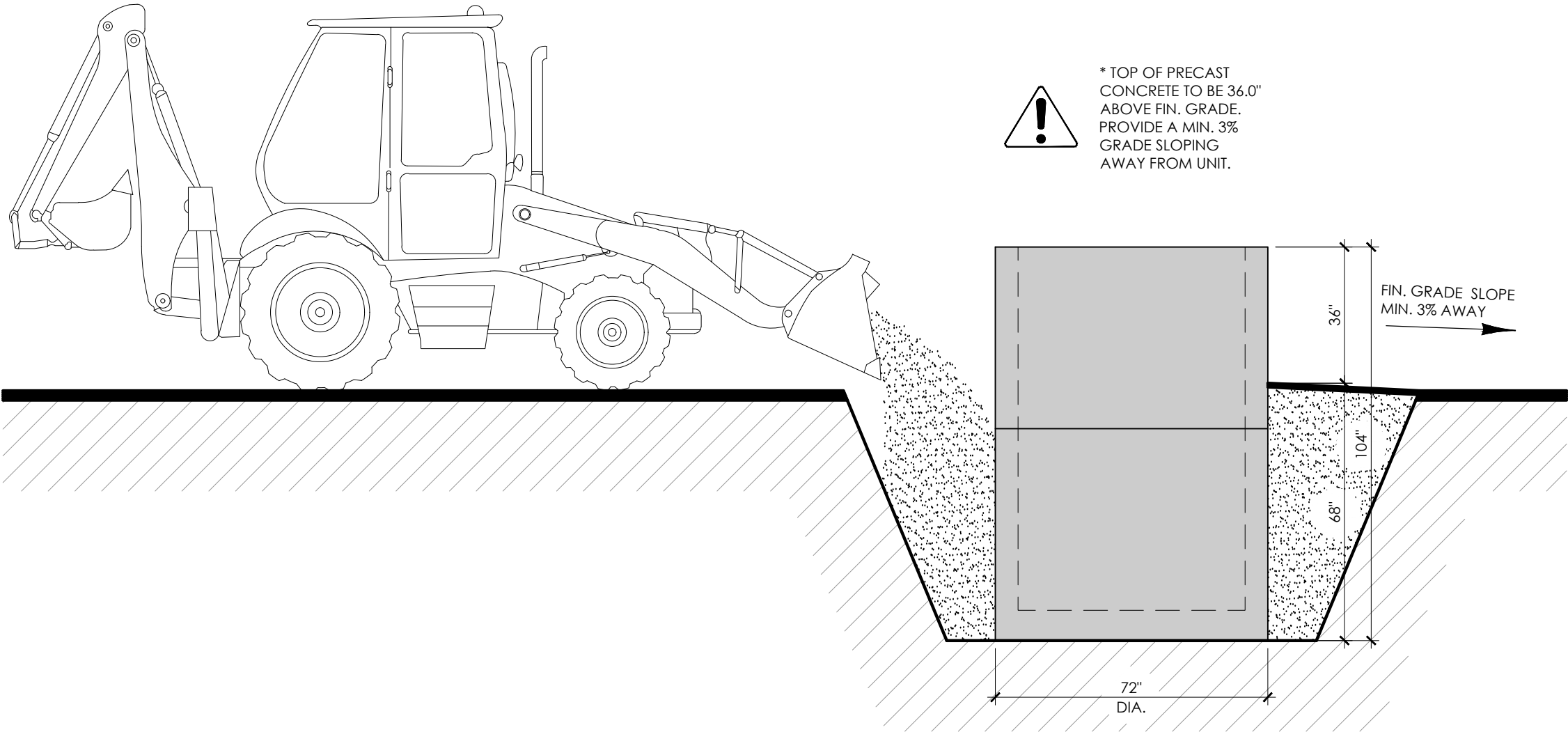
BACKFILL

STEP No.4



INSTALLATION
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- 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.
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BAG HARDWARE AND CINCHING BAG CLOSED

STEP No.5



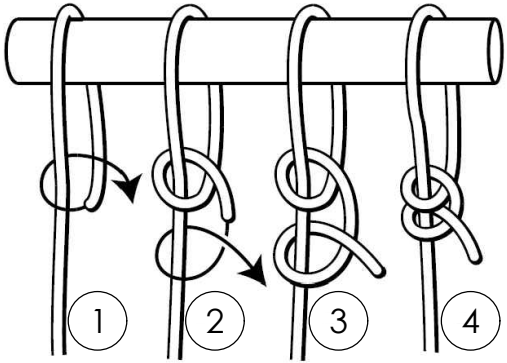
INSTALLATION INSTRUCTIONS

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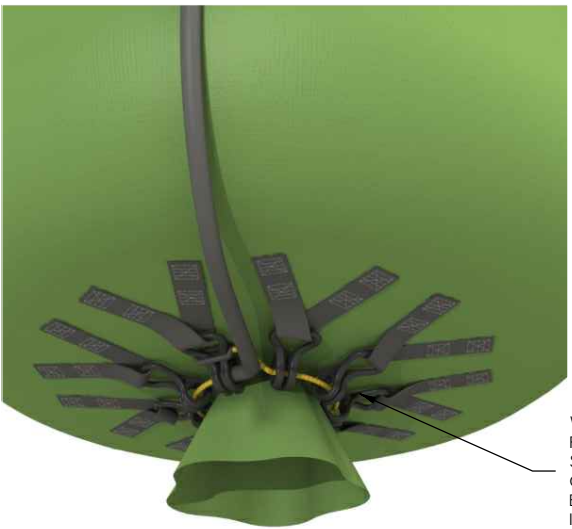
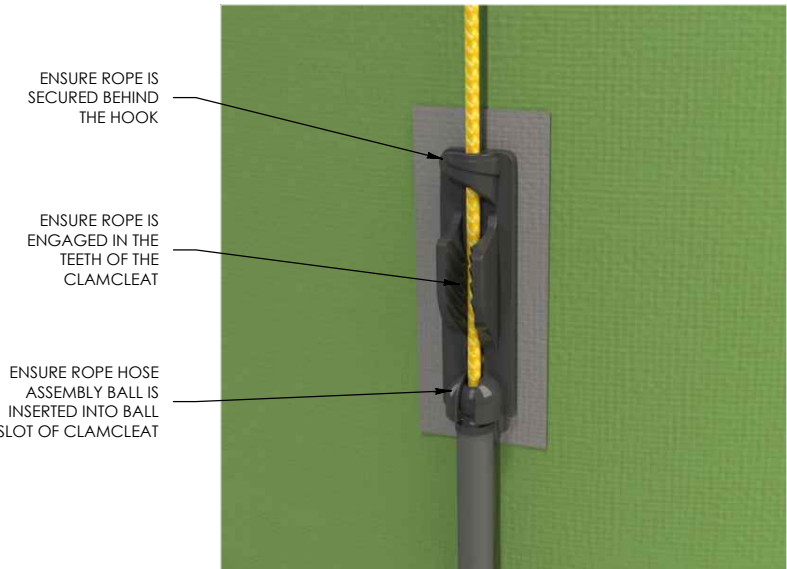
STEP No.5 - BAG HARDWARE AND CINCHING BAG CLOSED

- 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.
- 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.

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DOUBLE HALF HITCH KNOT INSTRUCTIONS



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

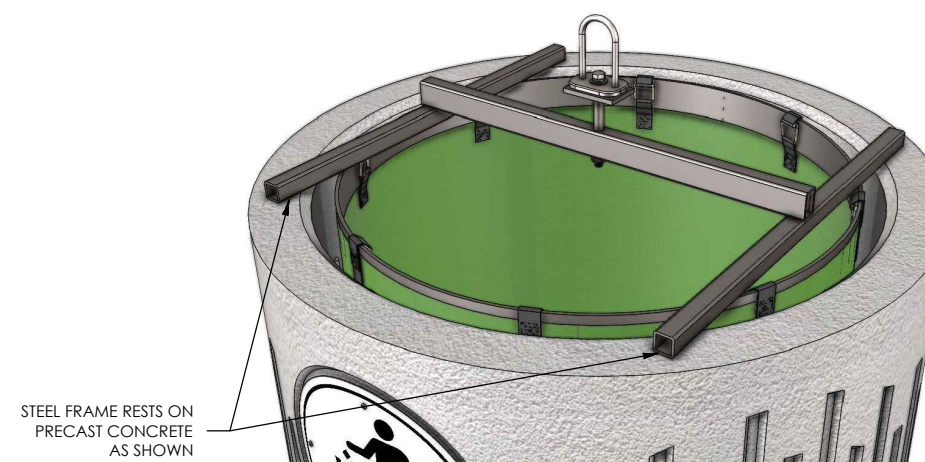
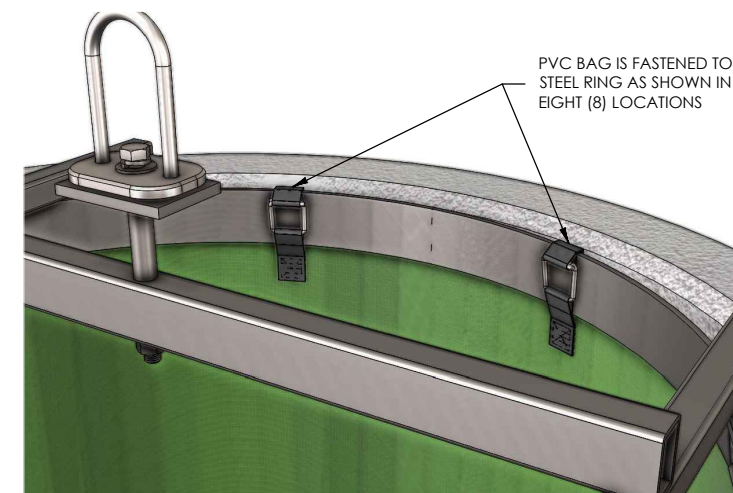
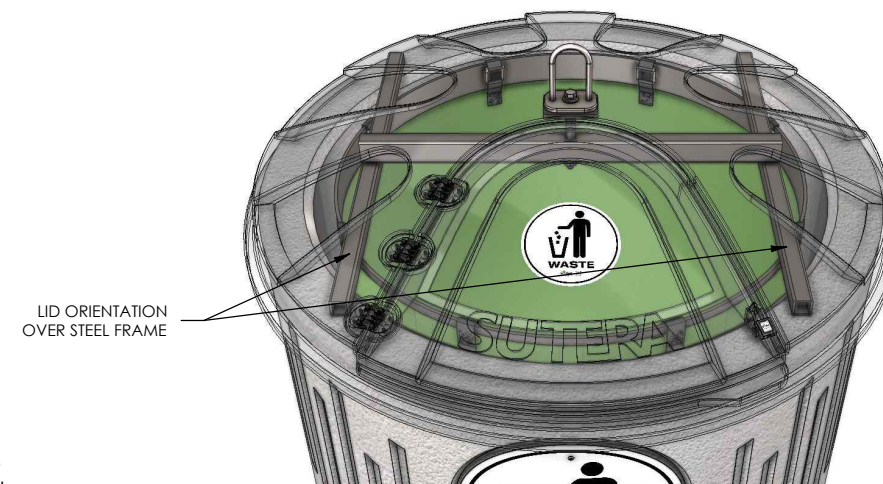
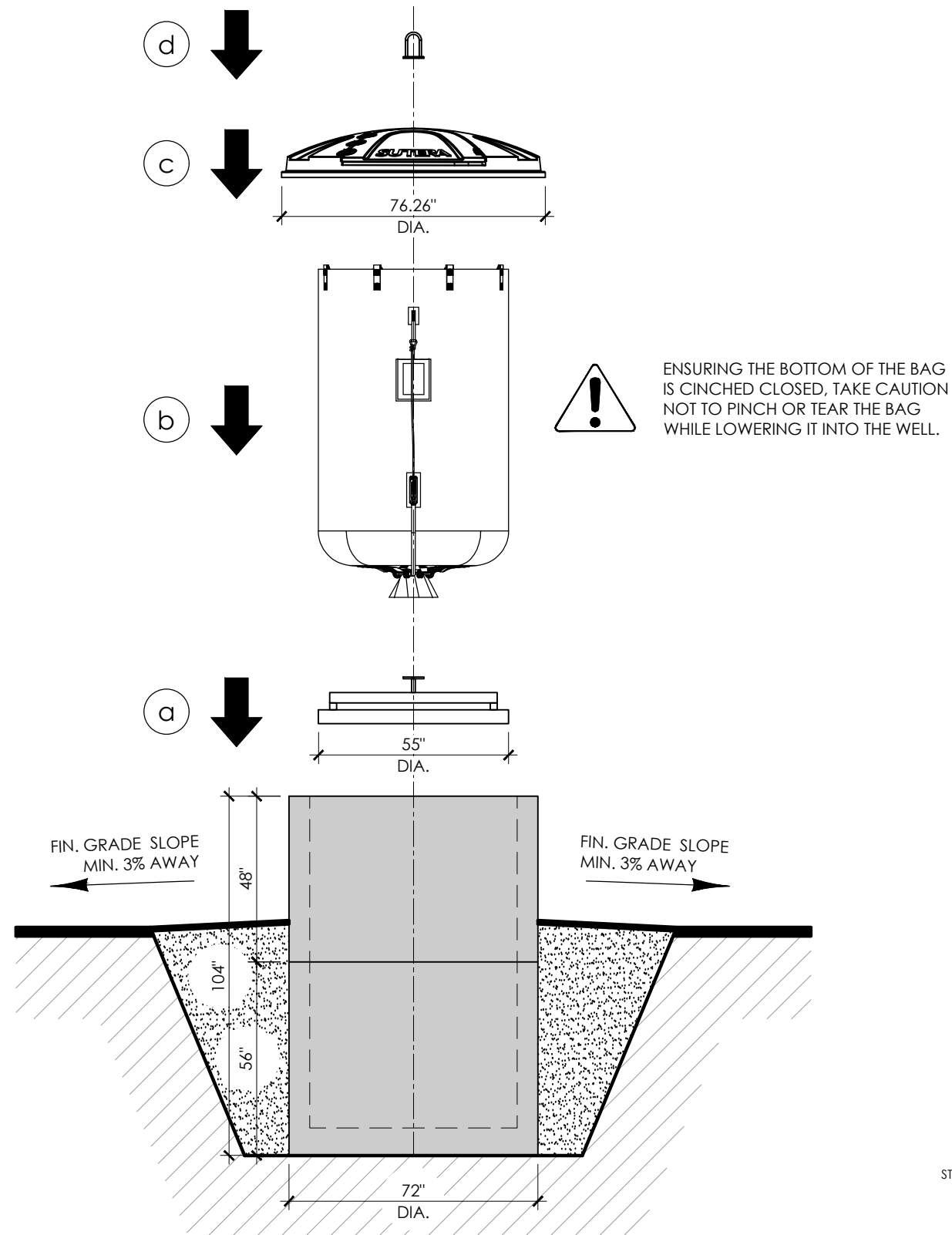
INSTALLING STEEL FRAME, PVC BAG, LID & LIFT HOOK

STEP No.6



INSTALLATION INSTRUCTIONS

SP-6



STEP No.6 - INSTALLING STEEL FRAME, PVC BAG, LID & LIFT HOOK

- 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 = 150 lbs. (68 kg.)
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- LIFT THE PLASTIC LID INTO PLACE, ALIGNING IT ON CENTER. PLASTIC LID WEIGHT = 60 lbs. (27 kg.)
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IDENTIFICATION SIGNAGE

STEP No.7

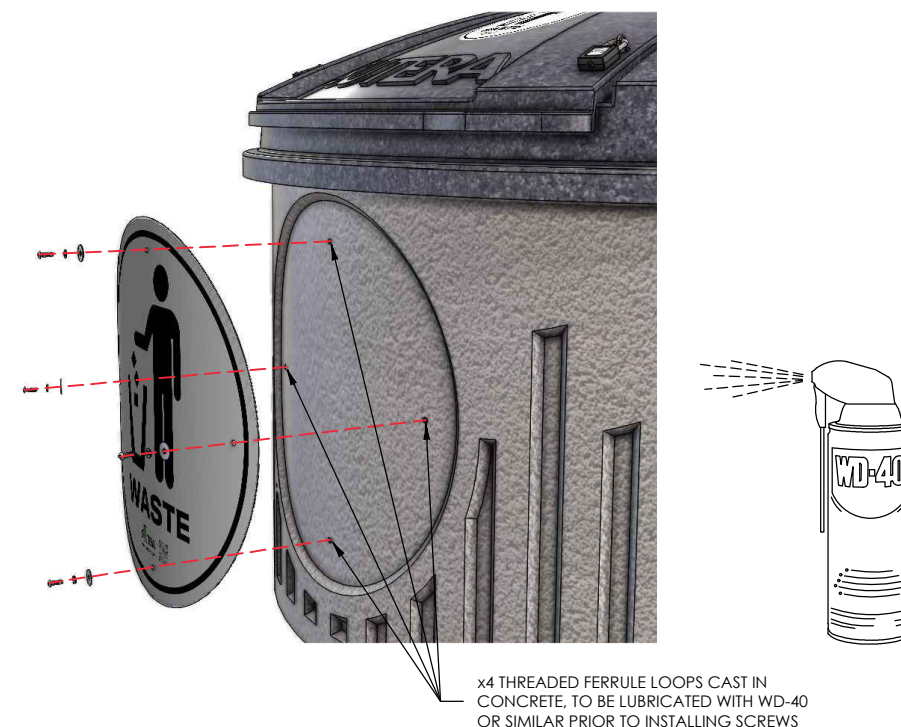
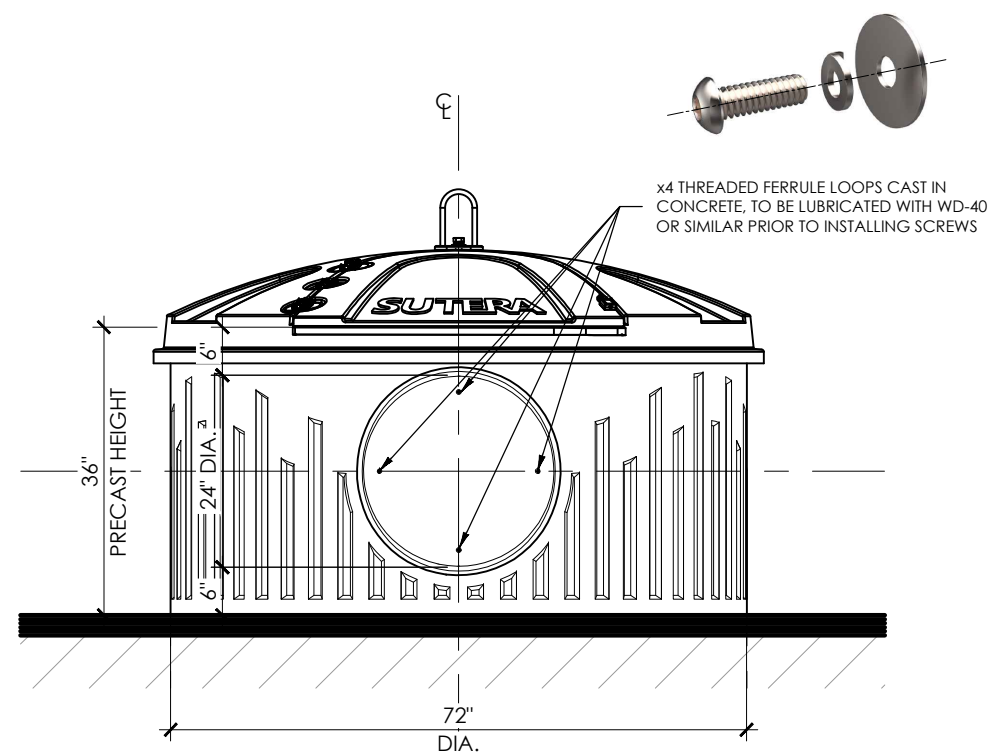
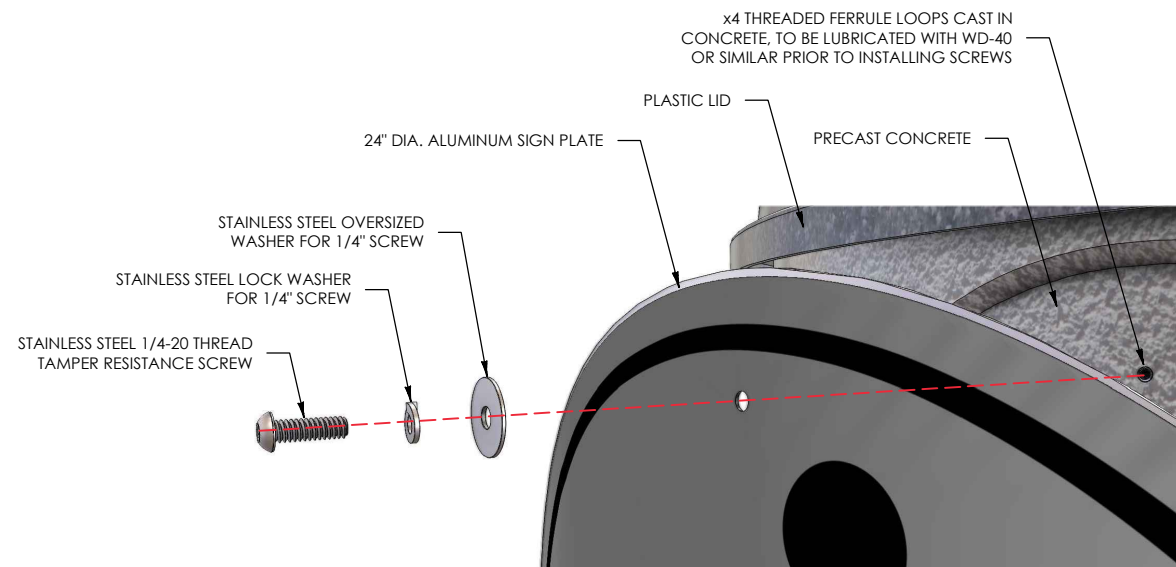


INSTALLATION INSTRUCTIONS

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SP-6 IDENTIFICATION SIGNAGE



- STEP No.7 - IDENTIFICATION SIGNAGE
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 - FOUR (x4) THREADED FERRULE LOOPS ARE CAST INTO THE CONCRETE, NO DRILLING REQUIRED.
 - PRE LUBRICATE (WD-40 OR SIMILAR) THE THREADED FERRULE LOOP HOLES PRIOR TO INSTALLING THE SCREWS.
 - ALIGN AND CENTER THE ALUMINUM SIGN PLATE PRIOR TO TIGHTENING.
 - DO NOT OVER TIGHTEN THE SCREWS.

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EYE TAB FOR PADLOCK

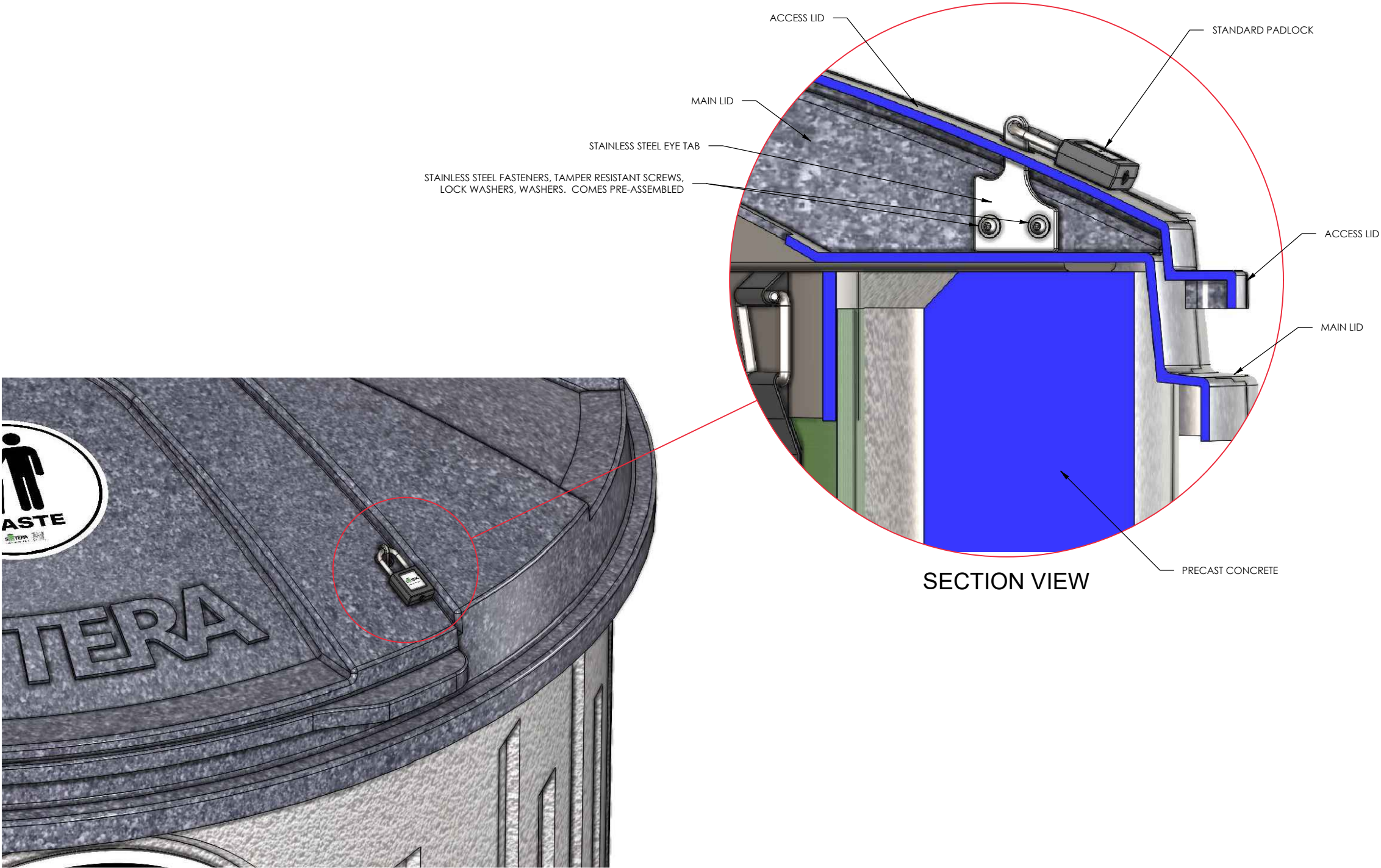
STEP No.8



INSTALLATION
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- STEP No.8 - EYE TAB FOR PADLOCK
- a. STAINLESS STEEL EYE TAB COMES PRE-ASSEMBLED AND ATTACHED TO THE PLASTIC LID TO ACCEPT A STANDARD PADLOCK FOR LOCKING THE ACCESS LID SHUT.
 - b. ALL FASTENERS; TAMPER RESISTANT SCREWS, LOCK WASHERS AND WASHERS ARE STAINLESS STEEL.



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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.

INSTALLATION IS COMPLETE