

## CONCRETE PIPE DIVISION

Precast Concrete Stormceptor  
STC 11000 thru STC 16000  
Installation Guide

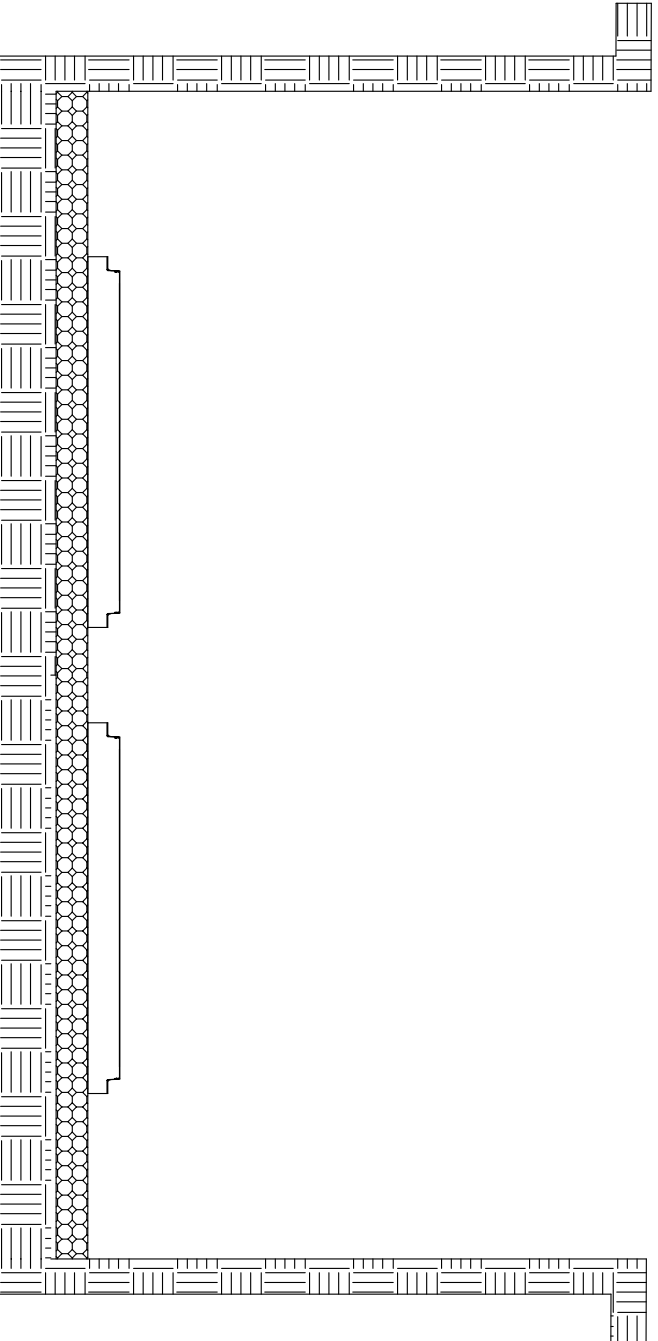
DR. BY: E. CARRASCO

CK. BY:

DATE: AUG. 31, 2006

SCALE: N.T.S.

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1. FOLLOW ALL LOCAL, STATE AND FEDERAL SAFETY REGULATIONS AT ALL TIMES DURING THE EXCAVATION AND ERECTION OF THE STORMCEPTOR.
2. ALL PIECES ARE GASKETED. FOR GASKET ASSEMBLY, SEE "PROFILE GASKET ASSEMBLY GUIDELINES (SHT. 6 OF 6)" DETAIL.
3. EXCAVATE HOLE TO THE PROPER DEPTH AS SHOWN ON THE ENGINEERED DRAWINGS ALLOWING FOR 3" TO 6" OF SUB-BASE.
4. MEASURE OUTSIDE DEPTHS OF BASES, CONTAINMENT CHAMBERS, TRANSITION SLABS AND RISER SECTIONS WITH INSERTS TO PROPOSED INVERTS OF STORM LINE, TO VERIFY REQUIRED DEPTH OF EXCAVATION.
5. PLACE GRANULAR SUB-BASE AND COMPACT TO LOCAL/STATE STANDARDS AS PER THE ENGINEERS REQUIREMENTS.
6. SET BASE SECTIONS AND LEVEL (CHECK ELEVATIONS).

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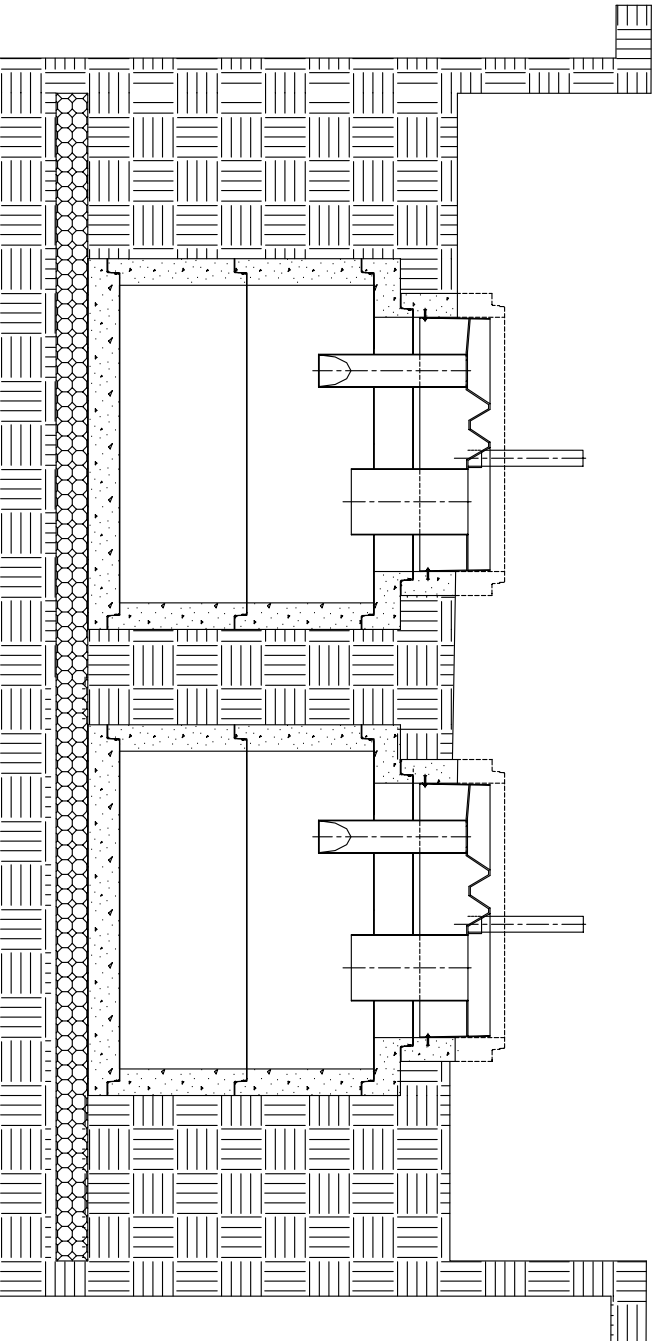
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7. INSTALL CONTAINMENT CHAMBER RISERS
8. VERIFY THAT THE UNITS ARE LEVEL.
9. INSTALL THE REDUCING SLABS.
10. CHECK ELEVATIONS AND VERIFY THAT THE UNITS ARE LEVEL.
11. PLUG AND GROUT LIFTING HOLES IF PRESENT.
12. BACKFILL UP TO SLAB ELEVATIONS USING COMPACTED GRANULAR FILL OR MATERIAL APPROVED BY THE ENGINEER. COMPACTION DENSITY AND LIFT HEIGHT SHOULD CONFORM TO LOCAL/STATE GUIDELINES.
13. INSTALL RISER SECTIONS OF STORMCEPTOR WITH FACTORY INSTALLED INSERTS (CHECK ELEVATIONS AND VERIFY THAT THE UNITS ARE LEVEL).
14. INSTALL STORMCEPTOR INTERNAL PIPING (SEE DOWN PIPE INSTRUCTIONS, SH. 6 OF 6).
15. PLUG AND GROUT LIFTING HOLES IF PRESENT.
16. BACKFILL TO THE INLET, INTERMEDIATE, AND OUTLET PIPES USING COMPACTED GRANULAR FILL OR MATERIAL APPROVED BY THE ENGINEER. COMPACTION DENSITY AND LIFT HEIGHT SHOULD CONFORM TO LOCAL/STATE GUIDELINES.

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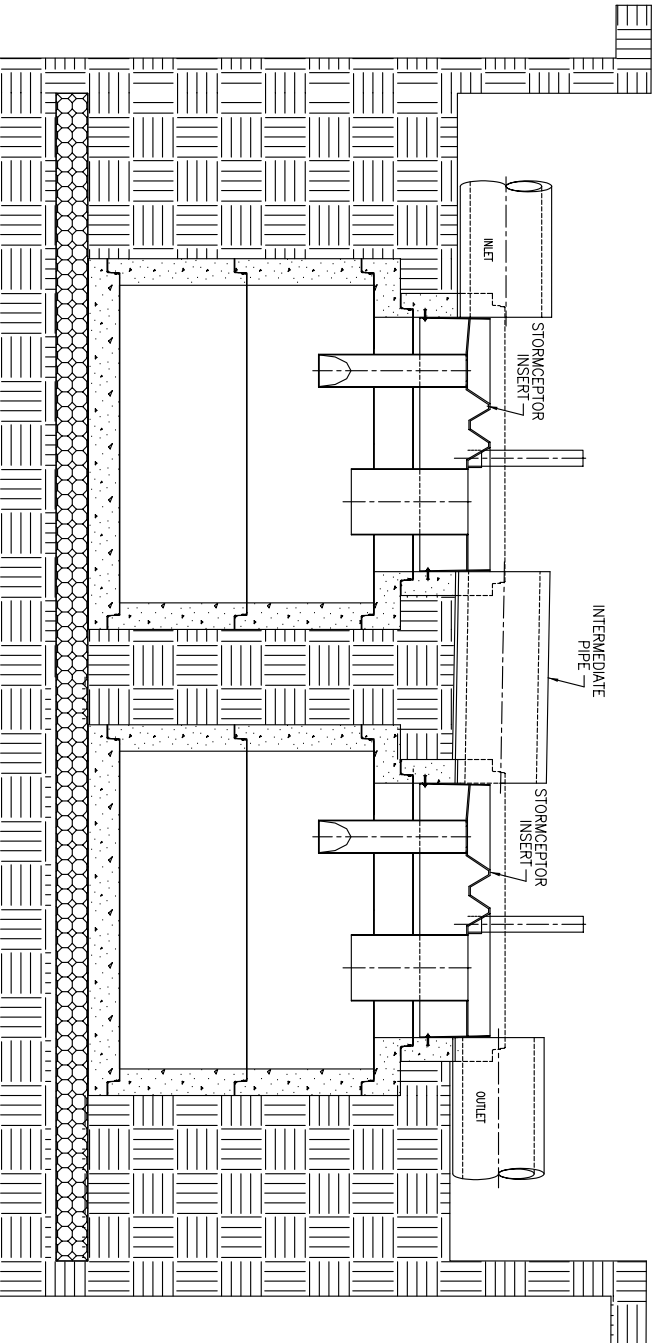
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17. LOWER INLET AND OUTLET STORM DRAIN PIPE INTO PLACE. MATCH INVERTS OF THE PIPES TO INSERTS. USE A SPACER BETWEEN THE STORMCEPTOR UNIT AND THE PIPES TO LEAVE ROOM TO GROUT BETWEEN THE STORMCEPTOR UNIT AND THE PIPES.
18. LOWER INTERMEDIATE PIPE INTO PLACE. MATCH INVERTS OF THE PIPE TO INSERTS. USE A SPACER BETWEEN THE STORMCEPTOR UNIT AND THE PIPE TO LEAVE ROOM TO GROUT BETWEEN THE STORMCEPTOR UNIT AND THE PIPE.
19. INSTALL MASTIK ON HORIZONTAL SHOULDER JOINT.

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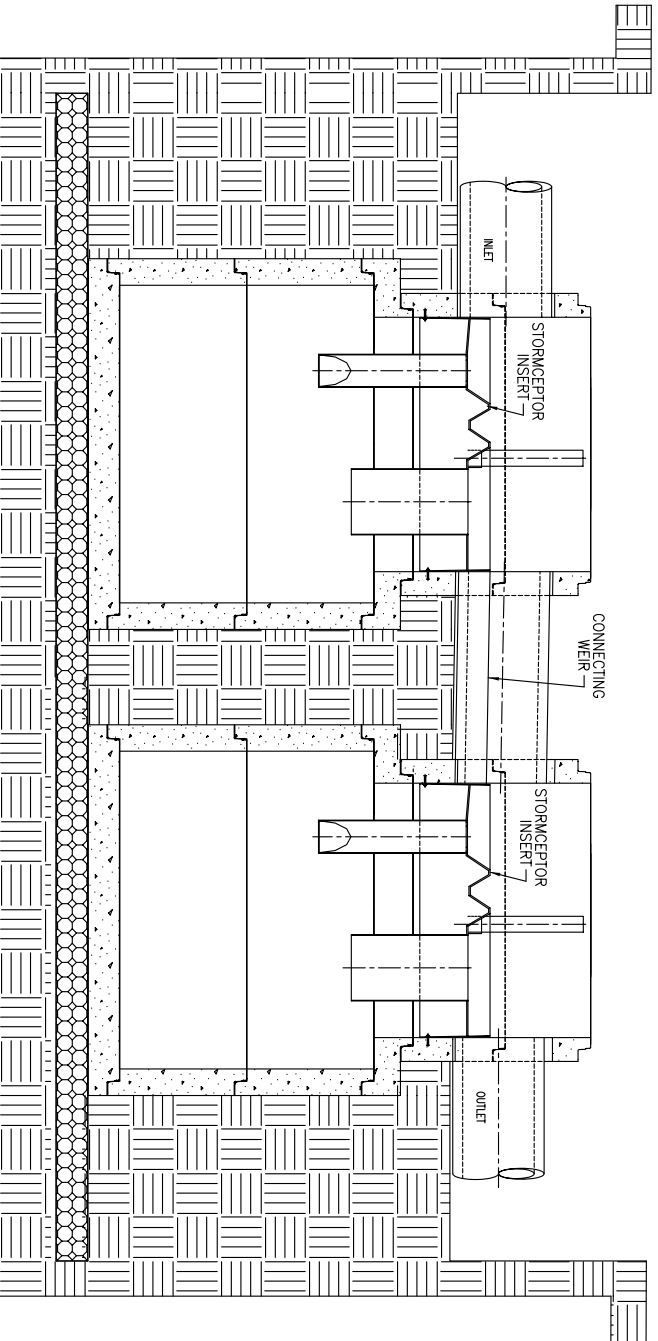
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20. INSTALL THE NEXT RISER SECTIONS TO FIT OVER THE STORM DRAIN PIPES.
21. USING NON-SHRINK GROUT, FILL IN VOID BETWEEN THE STORMCEPTOR UNITS AND THE STORM DRAIN PIPES.
22. INSTALL THE CONNECTING WEIR IN THE INTERMEDIATE PIPE BY GLUING THE CONNECTING WEIR TO THE INTERMEDIATE PIPE, AND THE UPSTREAM AND DOWNSTREAM WEIRS WITH SIKAFLEX ADHESIVE (THE UNDERSIDE PROFILE OF THE CONNECTING WEIR WILL FIT OVER TOP OF THE UPSTREAM AND DOWNSTREAM WEIRS).
23. CHEMREX INSIDE JOINT OF THE RISER SECTIONS.

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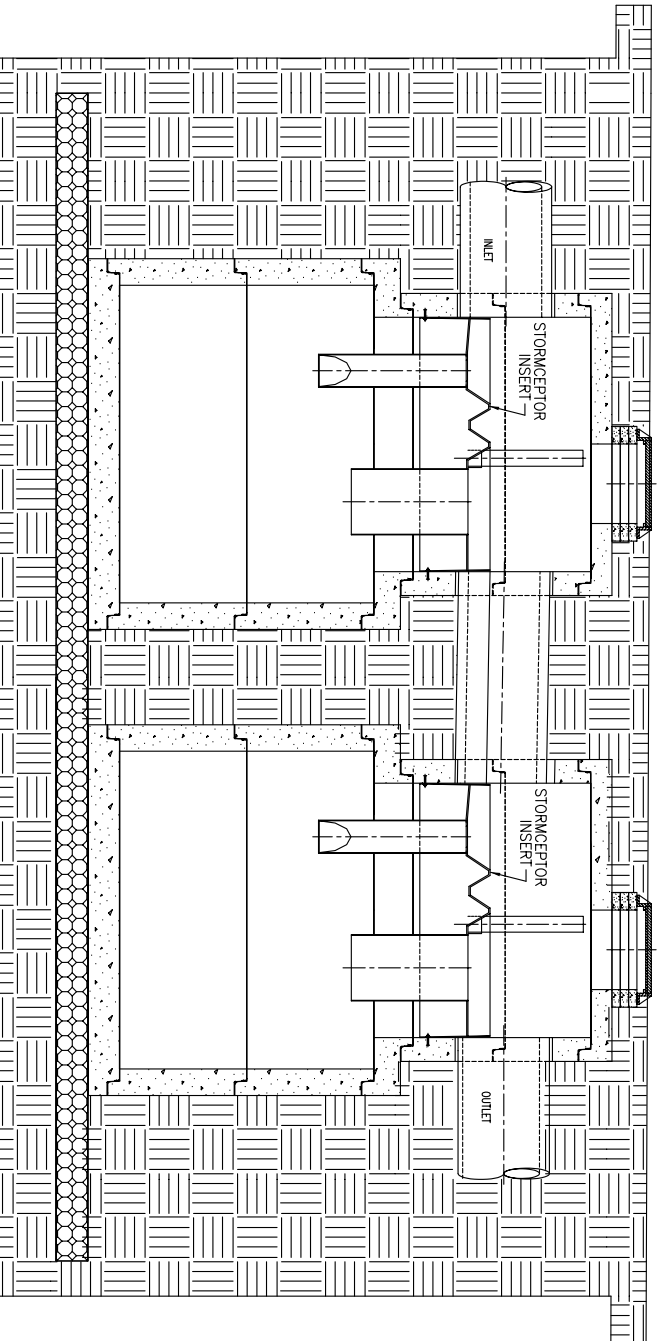
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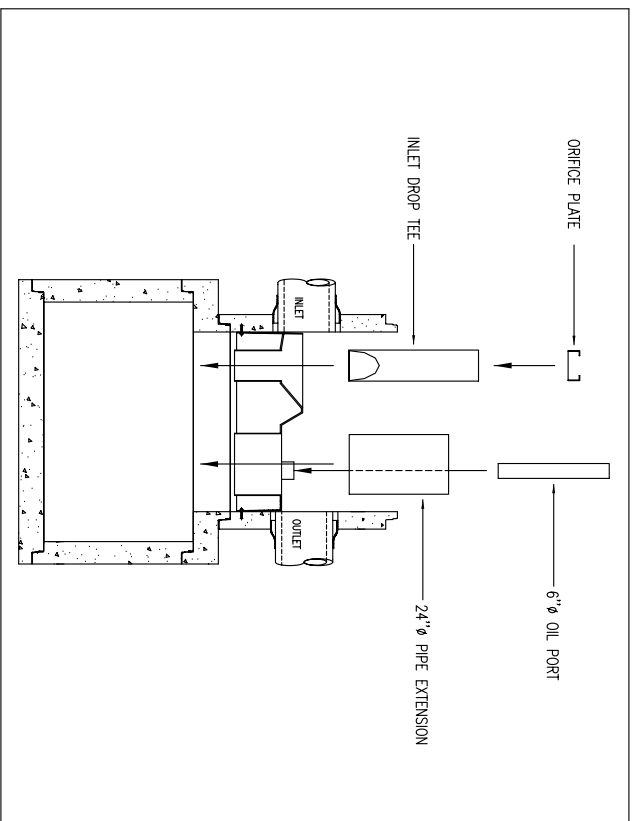


24. INSTALL ADDITIONAL RISER SECTIONS IF NECESSARY.
25. INSTALL TOP SLABS SUCH THAT THE OPENING IN THE SLAB ALLOWS ACCESS TO BOTH THE OIL PORT AND OUTLET RISER PIPE.
26. INSTALL AND SET GRADE ADJUSTMENT RINGS IN A FULL BED OF MORTAR (AS REQUIRED).
27. INSTALL FRAMES AND COVERS AT THE FINISHED GRADE ELEVATIONS IN A FULL BED OF MORTAR.
28. BACKFILL UNITS UP TO FINISHED GRADE USING COMPACTED GRANULAR FILL OR MATERIAL APPROVED BY THE ENGINEER. COMPACTION DENSITY AND LIFT HEIGHT SHOULD CONFORM TO LOCAL/STATE GUIDELINES.

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DOWN PIPE & OIL PORT INSTALLATION INSTRUCTIONS

1. INSTALL INLET DROP TEE FROM THE TOP OF THE DISC INSERT.
2. APPLY CHEMREX 948 BEAD AT THE TOP OF THE 24"Ø PIPE EXTENSION AND BOTTOM OF THE 24"Ø PIPE OPENING ON THE INSERT.
3. SLIDE 24"Ø PIPE EXTENSION INTO INSERT UNTIL TIGHT.
4. ADD CHEMREX TO THE 24"Ø PIPE JOINT AS REQUIRED TO ENSURE PROPER SEAL.
5. INSTALL ORIFICE PLATE IN INLET PIPE AND GLUE IN PLACE WITH CHEMREX 948 (ORIFICE PLATE NOT NEEDED FOR STC 16000).
6. ORIFICE PLATE SITS 1" BELOW INSERT.
7. ATTACH THE PROVIDED 6"Ø OIL PORT (IF NOT PRE-INSTALLED AT THE PRODUCTION PLANT) TO THE FRP COUPLING ON THE FIBERGLASS INSERT WITH CHEMREX 948. CUT OIL PORT AS REQUIRED TO ALLOW ACCESS FOR INSPECTION, BUT ENSURE THAT THE OIL PORT EXTENDS 12" ABOVE THE DESIGN HIGH WATER LEVEL IN THE STORMCEPTOR.

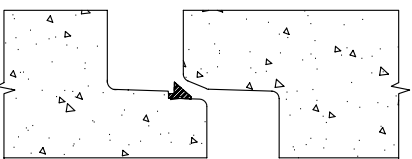


Figure 1

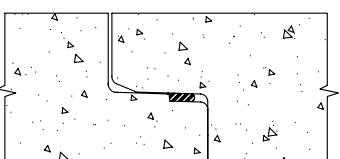


Figure 2

**PROFILE GASKET ASSEMBLY GUIDELINES**

1. The precast Stormceptor section should be handled with care to avoid any damage to the bell or spigot end.
2. Clean all dirt and debris from the spigot and bell surfaces.
3. Place the profile gasket on the step of the cleaned spigot. The fin of the gasket should point towards the shoulder of the spigot. (See Figure 1)
4. After the gasket is seated on the spigot, the gasket will need to be equalized. Insert a smooth round rod between the gasket and the spigot. Run the rod around the entire circumference of the joint several times to equalize the gasket. Take care not to cut or damage the gasket.
5. Apply joint lubricant to the inner surface of the bell including the leading edge. Lubricate the spigot and gasket.
6. Align the Stormceptor units and gently push the joint home. (See Figure 2)

IF JOINTING PROBLEMS ARISE CONTACT THE STORMCEPTOR REPRESENTATIVE IMMEDIATELY. DO NOT TRY AND FORCE THE JOINT HOME. AS THIS MAY CAUSE DAMAGE TO THE JOINT.