

**EXHIBIT "F"**

**LIFT STATION WET WELL CAISSON**

**CONSTRUCTION AFFIDAVIT**

DATE: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

The undersigned Engineer hereby acknowledges that by electing to utilize the caisson method of lift station wet well construction that engineer proceeds at its own risk.

The EOR shall present in writing the following information to Authority for requesting change from standard construction:

1. Site conditions (including hydrogeological conditions)
2. Equipment conditions
3. Monetary considerations
4. Contractor experience - List lift station wet wells successfully completed using the caisson (tremie) method by the contractor.
5. This listing shall give the location of the wet well and the names and address of the utility company currently operating the lift station.

The undersigned contractor also acknowledges receipt of Caisson Construction Causes for Rejection (page F-2) and Caisson Construction Requirements (page F-3) and understands and will comply with same without exception.

\_\_\_\_\_  
Type Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name of Firm

(President or two officers of the company must execute)

## CAISSON CONSTRUCTION

### CAUSES FOR REJECTION DURING OR AFTER INSTALLATION

1. Well sections installed in improper sequence (keyways not in correct position).
2. Leaks (including continually damp areas) in wall sections, tremie seal or in joints of precast sections.
3. Wet well installed out of plumb, **maximum deviation** shall be 1/8" per foot for each precast section with the completed cylindrical structure no more than two inches out of level prior to setting the top slab. The bottom (first) and second section of the structure shall be set level and plumb prior to beginning the clamming operation and shall be so maintained until the addition of the third section.
4. Structural damage, gouges, cracks, etc. in wet well sections caused by damage during construction (hit by clam bucket, crane boom, settling, etc.).
5. Settlement of structure after completion of tremie seal and or secondary pour/top slab installation.
6. Wet wells completed deeper than design due to over excavation.

## CASSION CONSTRUCTION

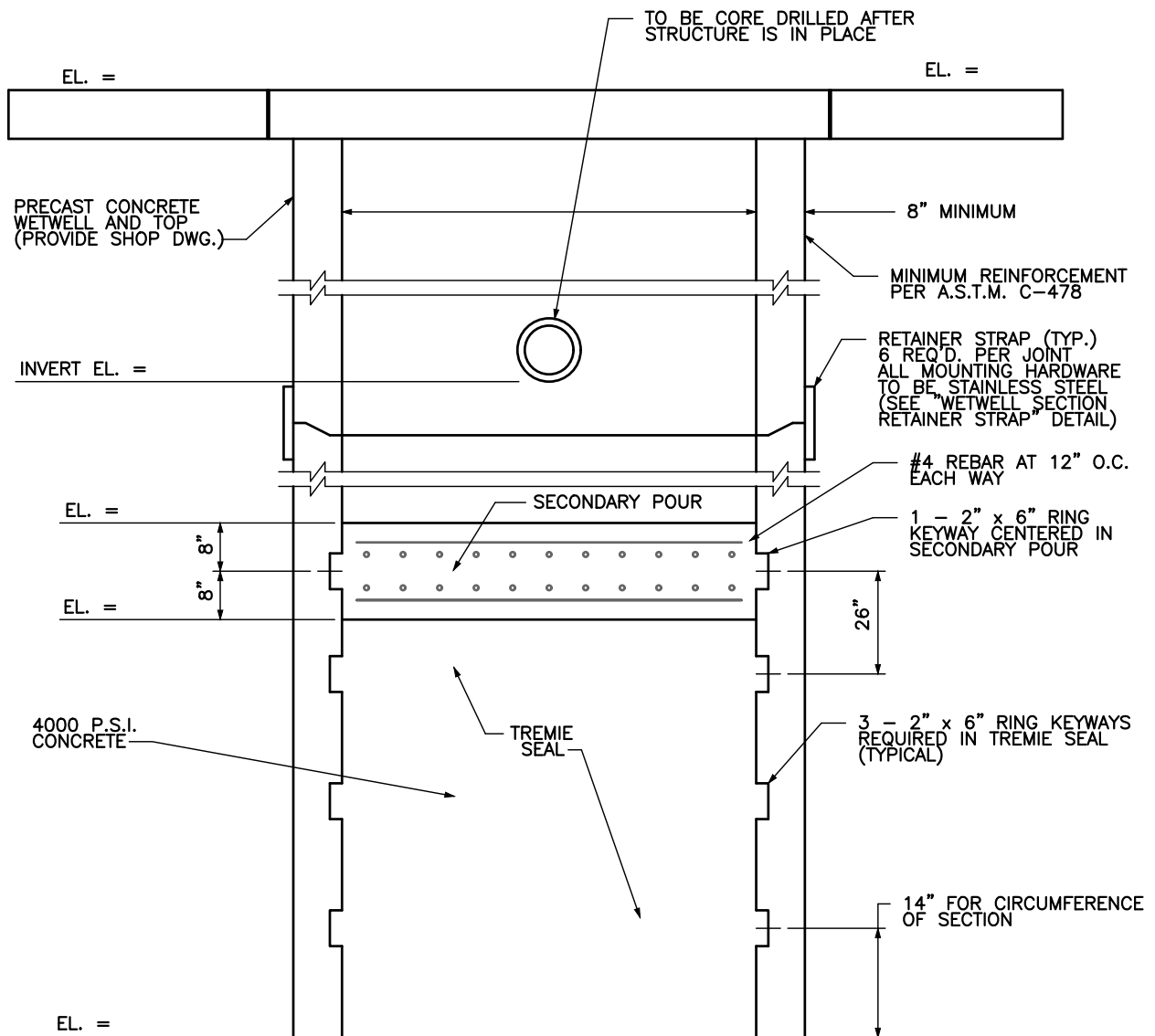
### CONSTRUCTION REQUIREMENTS (ALSO SEE DETAIL SHEET)

1. Structures and sections shall be inspected by Authority prior to installation.
2. Structures shall be design to minimize the numbers of sections within the structure; i.e.: 6 or 8 foot sections where possible.
3. No section joints permitted within limits of secondary pour.
4. No more than one layer of RAM-NEK permitted on each joint.
5. RAM-NEK between joints shall be fully compressed prior to retainer straps being installed.
6. Top of tremie seal must be clean, dry and inspected by Authority prior to placement of secondary pour.
7. All section joints shall be leak free prior to secondary pour.
8. If approved by SUA, leak repair of tremie seal will be by pressure injected epoxy only. Lead wool, water plug, acrylamide grout, etc. are not permitted.
9. Tremie seal concrete shall have a minimum compressive strength of 4,000 psi at seven (7) days and testing laboratory results shall be submitted to Authority for approval prior to placement of the secondary pour.

10. Secondary concrete shall have a minimum compressive strength of 4000 psi at twenty-eight (28) days and testing laboratory results shall be submitted to Authority for approval before completion of lift station.

11. Authority's approval for the installation does not in any way guarantee the final acceptance of said lift station.

12. Other than the method of caisson versus built-in-place construction all other components of a wet well shall comply with Authority's Construction Standards and Specifications.



NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. CONCRETE USED FOR TREMIE SEAL AND SECONDARY POUR MUST BE 4000 P.S.I. AT 28 DAYS WITH TYPE II PORTLAND CEMENT. SECONDARY POUR SHALL NOT OCCUR UNTIL WETWELL IS WATER TIGHT ON ALL SIDES AND BOTTOM.
2. MINIMUM OF FOUR 2" x 6" RING KEYWAYS REQUIRED WITH TOP KEYWAY CENTERED IN THE SECONDARY CONCRETE POUR.
3. TREMIE SEAL REQUIRED TO BE A MINIMUM OF 36" THICK AND SECONDARY CONCRETE POUR 16" THICK.
4. TREMIE SEAL TO CURE 48 HOURS PRIOR TO PUMPING OFF WATER TO PREPARE FOR SECONDARY CONCRETE POUR.
5. E.O.R. SHALL SUBMIT SIGNED AND SEALED BUOYANCY CALCULATIONS TO SUA FOR REVIEW AND APPROVAL.
6. WEIGHT OF TOP SLAB, SECONDARY CONCRETE POUR, PUMPS AND EXTERIOR SKIN FRICTION SHALL NOT BE INCLUDED IN BUOYANCY CALCULATIONS. GROUNDWATER SHALL BE CONSIDERED AT GROUND LEVEL FOR BUOYANCY CALCULATIONS UNLESS SPECIAL CONSIDERATIONS APPLY (ON COASTAL RIDGE, ETC.).

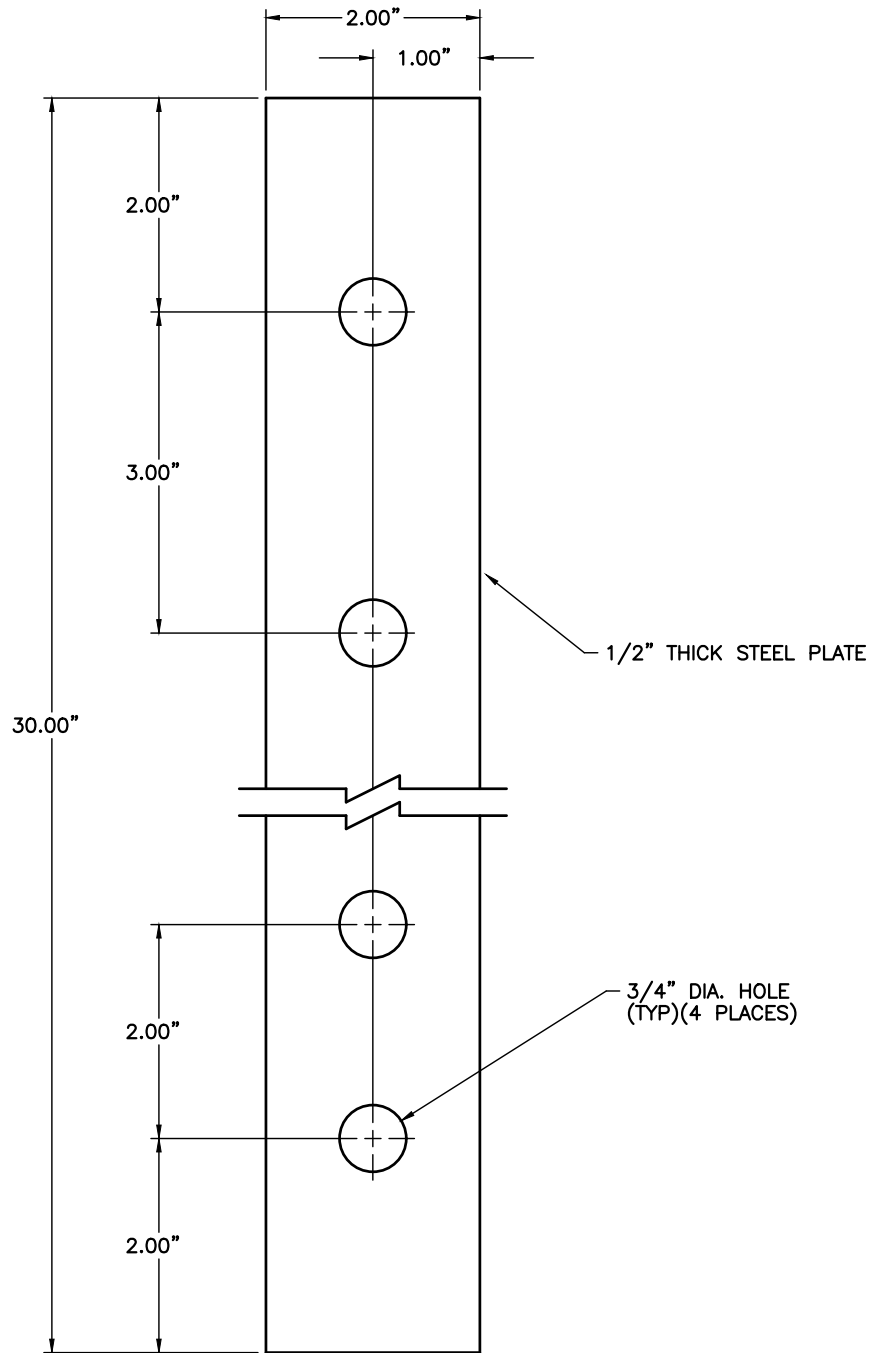
### Wet Well Installation (Caisson Construction)

**SEACOAST UTILITY AUTHORITY**  
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED:  
MAY 24, 2023

Revision C-23

Exhibit F



PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

Wet Well Section Retainer Strap

**SEACOAST UTILITY AUTHORITY**  
CONSTRUCTION STANDARDS AND DETAILS

DATE APPROVED:  
MAY 24, 2023

Revision B-23

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