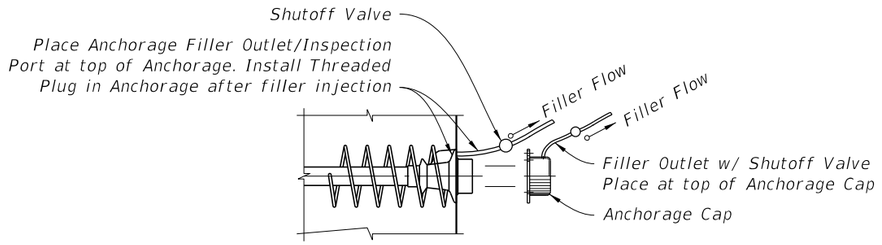
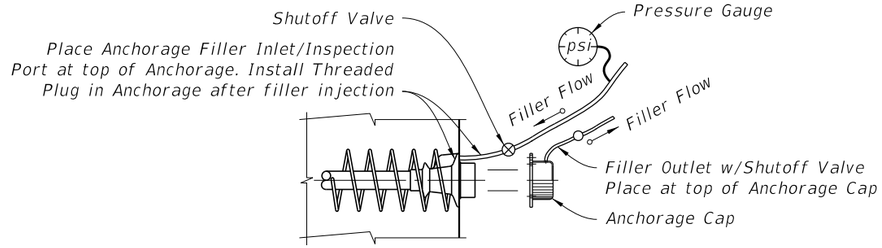
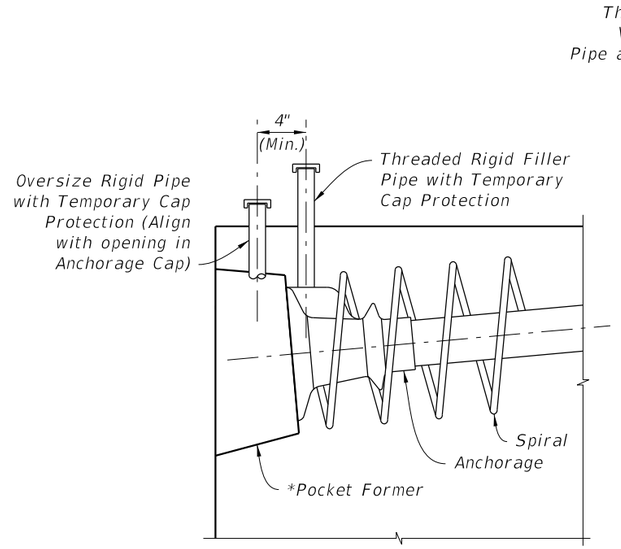


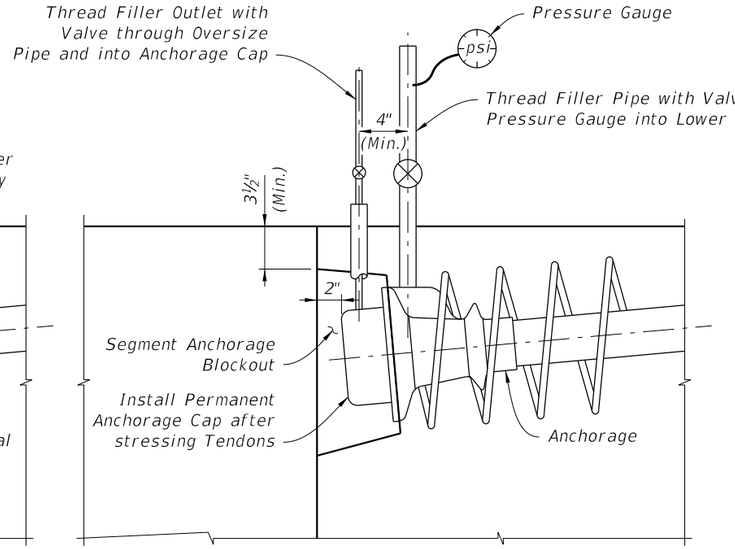
FACE INSPECTED
ANCHORAGE WITH FILLER OUTLET



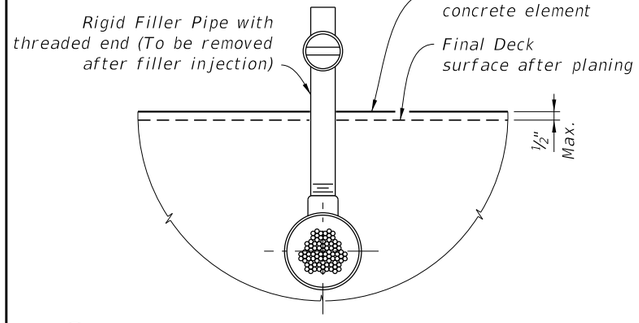
FACE INSPECTED
ANCHORAGE WITH FILLER INLET



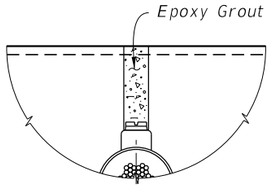
1 INSTALLATION & SHIPPING



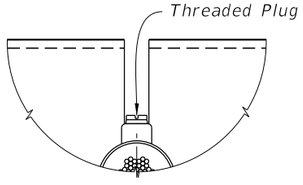
2 FILLER INJECTION



1 FILLER OUTLET CONNECTION TO DUCT



3 FILLING POCKET

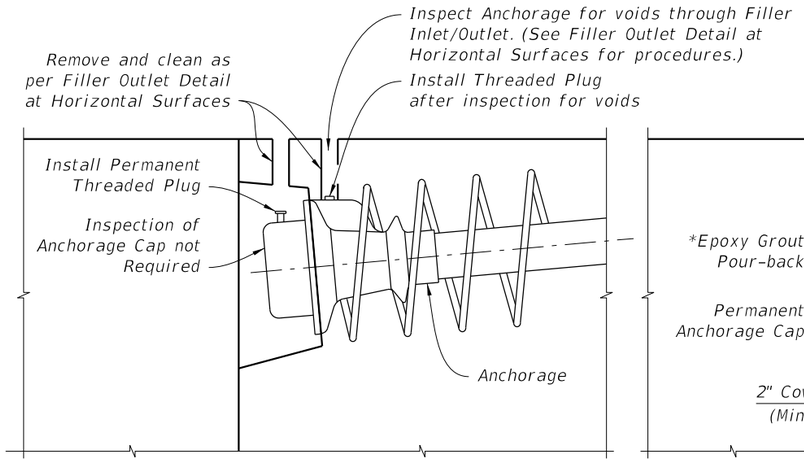


2 POCKET PREPARATION

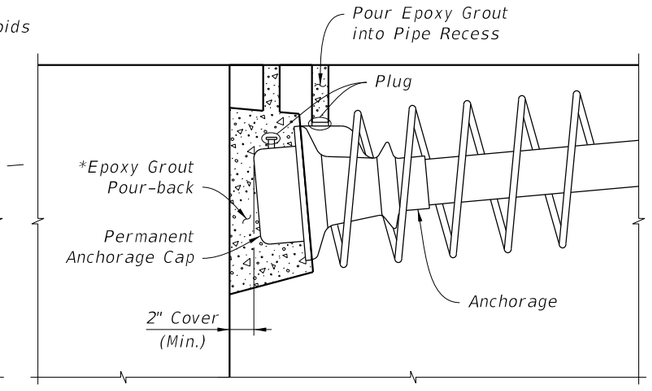
PROCEDURE:

1. Remove Rigid Filler Pipe.
2. Inspect Tendon for voids as necessary.
3. Vacuum inject as required. If grout is used, allow grout to cure. If flexible filler is used, replace filler displaced by inspection. Remove pipe used for vacuum injecting.
4. Clean threads and rethread as required.
5. Install Threaded Plug into Outlet to form a tight fit.
6. Over-ream hole (¼" Ø over-ream). Clean and roughen sides.
7. Fill Pocket with Epoxy Grout.

FILLER OUTLET DETAIL AT HORIZONTAL SURFACES



3 INSPECTION



4 PROTECTION

TOP INSPECTED ANCHORAGE WITH FILLER INLET INSTALLATION, FILLER INJECTION, INSPECTION & PROTECTION

NOTES:

1. Holes used for the Inspection and Filler Inlets/Outlets may be formed using tapered pipes or mandrels.

* Round ◯ Pocket Former – Gravity fed placement of epoxy grout acceptable
Modified Square ⬠ Pocket Former – Gravity fed placement of epoxy grout acceptable
Square □ Pocket Former – Vacuum epoxy grouting required

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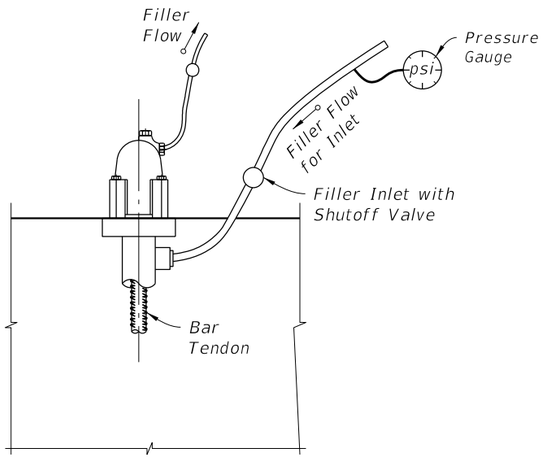
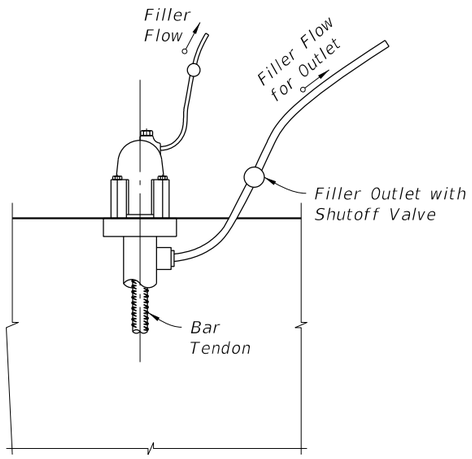


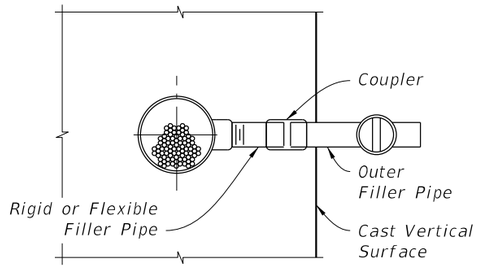
INLET END



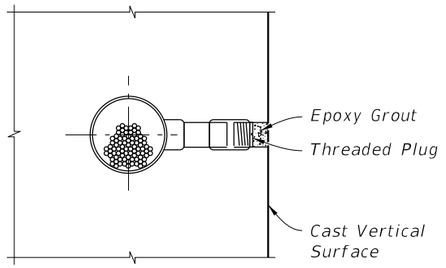
OUTLET END

NOTE:
Anchor or Nut to allow for flow of Filler into Cap.

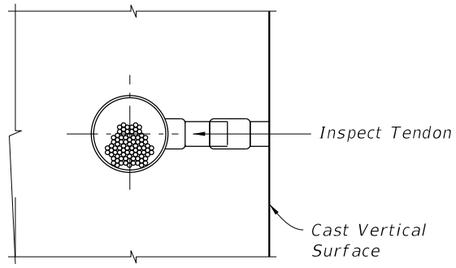
FILLER INLET AND OUTLET DETAILS FOR BAR TENDONS



(1) FILLER OUTLET CONNECTION TO TENDON



(3) FILLING POCKET

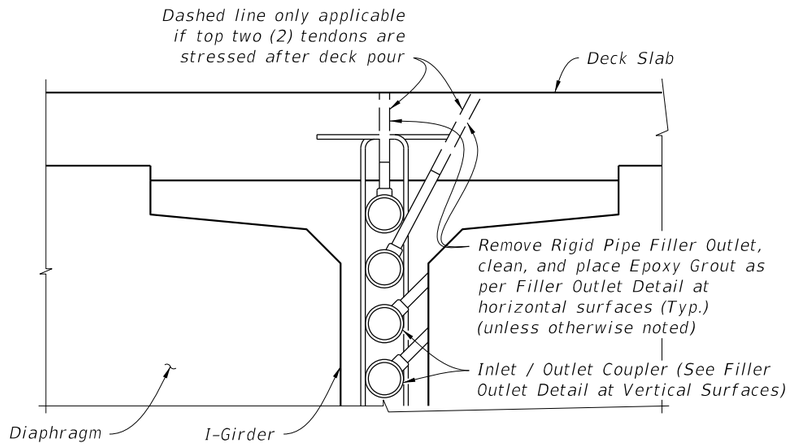


(2) POCKET PREPARATION

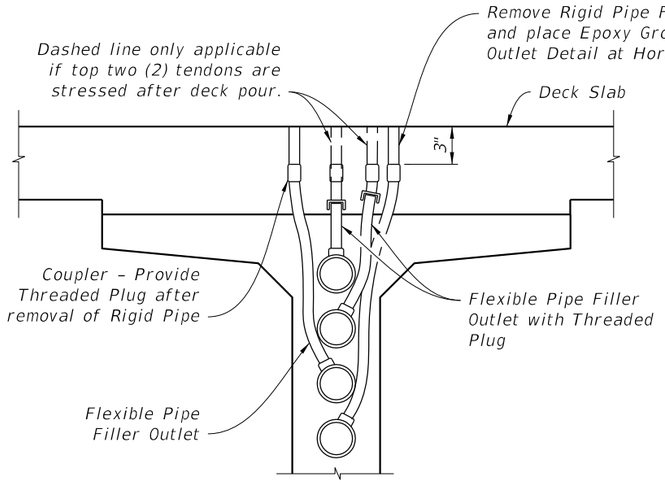
PROCEDURE:

1. Remove Rigid Filler Pipe or drill Grout in flexible pipe.
2. Inspect tendon for voids.
3. Vacuum inject as required. If grout is used, allow grout to cure. If flexible filler is used, replace filler displaced by inspection. Remove pipe used for vacuum injecting.
4. Install Threaded Plug into Outlet to form a tight fit.
5. Over-ream hole ($\frac{1}{4}$" Ø over-ream). Clean and roughen sides.
6. Fill pocket with epoxy grout.

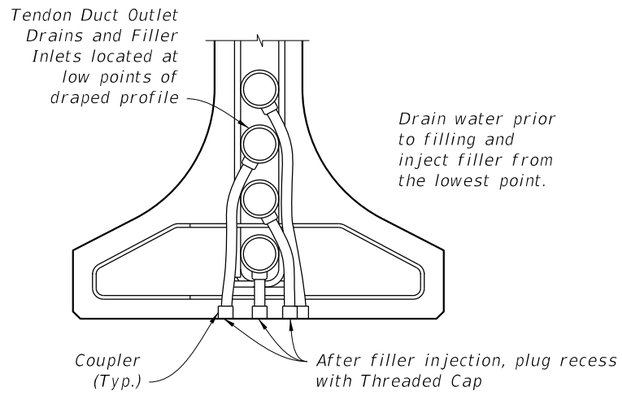
FILLER OUTLET DETAIL AT VERTICAL SURFACES



HIGH POINT INSPECTION
LOCATION AT FILLER OUTLET



TENDONS AT 3'
FROM HIGH POINTS (FILLER OUTLET)



TENDONS AT LOW POINTS
(FILLER INLET / DRAIN)

FILLER INLET AND OUTLET DETAILS FOR I-GIRDERS

Details for C.I.P. Boxes with Internal Tendons similar. Web reinforcing not shown for clarity.

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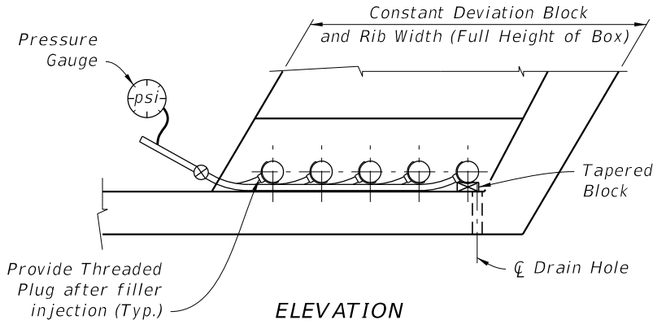
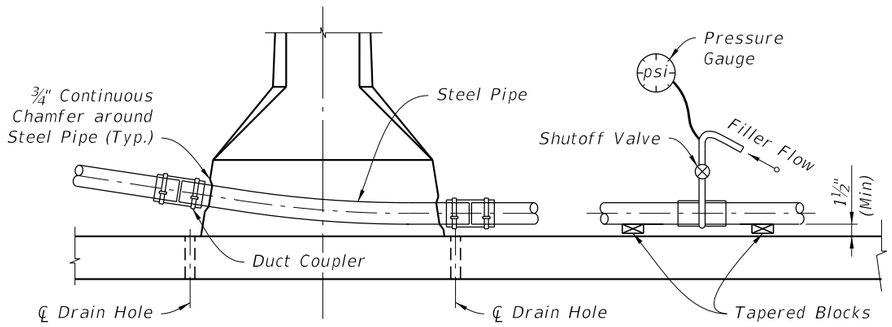


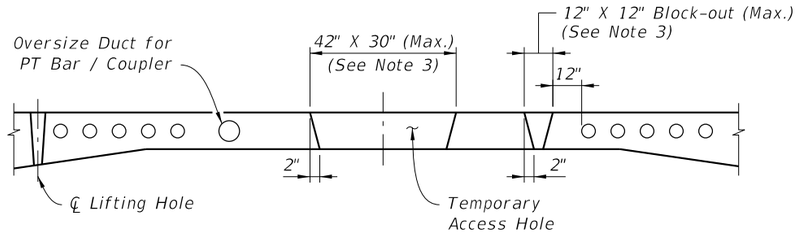
ELEVATION
OF FILLER INLET

NOTES:
Place tapered blocks under each Tendon to be injected to raise Duct off Tendon Strands. Center Strands within Duct before filling. Blocks shall be removed after filling injection. Blocks shall not damage or permanently deform Duct.



SECTION

TENDON FILLING FOR SPAN BY SPAN CONSTRUCTION



TEMPORARY ACCESS HOLES

Notes: Temporary Access Holes

1. Temporary access holes to facilitate access for erection, jacking and tendon filling operations inside the box during construction are allowed. The access holes shall be limited to a maximum size of 42" wide x 30" long and shall be limited to one per span.
2. Slab block-outs for temporary / permanent longitudinal post-tensioning bars are not allowed. Temporary/ permanent PT bars in the top slab shall be placed in oversized ducts in the slab to accommodate both the bar and coupler.
3. In lieu of 1 ~ 42" x 30" temporary access hole, a maximum of 2 top slab block-outs (12" x 12" (Max.)) between the webs is allowed for construction per span. Block-outs shall be a minimum of 12" from the nearest duct or anchor and shall be located as to prevent direct drip onto bottom slab anchors.

Notes: Repair of Temporary Access Holes,
Block-outs, and Lifting Holes

1. Form all large block-outs with tapered sides.
2. Immediately before casting the concrete, mechanically clean the mating concrete surfaces to remove any laitance and to expose small aggregate.
3. Repair all holes and block-outs with Magnesium Ammonium Phosphate Concrete within 24 hours of cleaning concrete.
4. After completion of the deck planing and grooving, coat the repaired and surrounding concrete surfaces with High Molecular Weight Methacrylate.
5. Alternately, epoxy grout may be used to repair holes. High Molecular Weight Methacrylate is not required with epoxy grout.

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