GENERAL NOTES - PRECAST CONCRETE

Materials:

- 1. All precast modules shall be manufactured with class PC concrete according to Section 504, Article 1042.02, Article 1042.03 and the following requirements:
 - a. Lightweight coarse aggregates according to ASTM C330 shall be used such that the maximum cured density shall be 120 lbs./cu. ft. (ASTM C567).
 - b. The minimum 28-day compressive strength shall be 5,000 psi.
- 2. Reinforcing steel shall be according to Article 1006.10(a)(2). Welded steel wire fabric shall be according to Article 1006.10(b)(1).
- 3. Steel inserts shall be galvanized according to AASHTO M 232 or AASHTO M11 as applicable and have the following safe working load capacities:
 - a. F41 Wingwall Anchor, 1" diameter x 8":
 - i. Tension: 10,711 lbs.
 - ii. Shear: 5,400 lbs.
 - b. F-42 Loop Ferrule Insert, 3/4" diameter:
 - i. Tension: 2,200 lbs.
 - ii. Shear: 2,200 lbs.
 - c. F-57 Expanded Coil Ferrule Insert, 3/4" diameter:
 - i. Tension: 4,250 lbs.
 - ii. Shear: 2,450 lbs.
 - d. F-62 Flared Thin-Slab Ferrule Insert, 3/4" diameter bolt x 3 5/8" high:
 - i. Tension: 3,300 lbs.
 - ii. Shear: 3,300 lbs.
 - e. D-108-A Headed Dowel Bar Insert, 3/4" diameter to #5 bar x 9" long:
 - i. Tension: 6,975 lbs.
 - *ii. Shear: 4,440 lbs.*

Note that these items are manufactured by Dayton/Superior. Alternates shall be submitted to the Engineer for review and approval and must meet the capacities shown above.

- 4. Bearing pads, where specified, between precast concrete elements shall be plain, unreinforced neoprene with a minimum thickness of 1/2" and a minimum durometer hardness of 50.
- 5. All precast fascia panels and outlooks shall be sealed with *Canyon Tone Clear s*ealer by United Coatings or an approved equal. See specification for more information.
- 6. Steel plates shall conform to AASHTO M270M Grade 50. All steel plates shall be hot dip galvanized in accordance with AASHTO M-111 and ASTM A-385. Plate washers shall be 5"x5"x 1/2" Thk with 7/8" diameter holes centered on the plate.

- 7. Non-shrink grout shall be according to ASTM C-1107 and have a minimum compressive strength of 5,000 psi.
- 8. All threaded rods, nuts and connection bolts shall be Type 304 Stainless Steel.

Fabrication:

- 1. All reinforcement shall have a minimum of 1 1/2" of clear cover.
- 2. Formliners shall have a maximum relief of 1/8" and be from or equivalent to the following manufacturers and patterns:
 - a. Custom Rock pattern T315 (Heavy Sandblast)
 - b. Fitzgerald pattern 16991 (Medium Sandblast)
 - c. Greenstreak pattern 348 (Medium Sandblast)
- 3. Prepare all precast surfaces in accordance with sealer manufacturer's recommendations. At a minimum, all surfaces shall receive a brush-blast cleaning and water rinse.
- 4. The reinforcement as shown is for in-place structural adequacy only. The precaster shall be responsible for any other reinforcement required for shipping and handling as well as inserts required for lifting.

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