PART 1 – GENERAL

1.1 SUMMARY

This Section describes the procedures and practices to minimize or eliminate discharge of concrete waste to storm drain systems or water courses throughout the performance of the Work.

1.2 RELATED REQUIREMENTS

A. Section 01 74 19, Construction Waste

1.3 SUBMITTALS

A. The Contractor shall submit the following to the Owner's Authorized Representative (OAR):

1. A detail for a Contractor concrete slurry containment system; and

2. A detail for a Contractor concrete washout area.

1.4 REFERENCES

A. The following is a list of policies and regulations which may be referenced in this Section:

1. Texas Administrative Code (TAC): Title 30 Chapter 335, Industrial Solid Waste and Municipal Hazardous Waste.

2. Code of Federal Regulation (CFR): Title 40 Part 131 Water Quality Standards

PART 2 – PRODUCTS

Not Used.

PART 3 – EXECUTION

3.1 CONCRETE SLURRY

A. General

1. The Contractor shall contain all concrete slurry to prevent discharge to a storm drain or surface water.

2. The concrete slurry shall be continuously vacuumed during saw cutting and slurry and cuttings shall not be allowed to remain on the pavement to dry.

3. The Contractor shall remove slurry residue by abrasion (e.g. scraping or bristle broom) until no further residue may be loosened and only a stain remains.

4. When the Contractor is performing a sawcut operation near a storm drain, the Contractor shall place sandbags or a similar Best Management Practice (BMP) to block the drain during such activities.

5. The Contractor shall remove the BMP immediately upon completion of the sawcut operation.

B. Slurry Container

1. The Contractor shall place the vacuumed slurry into a water-tight slurry waste container and place a sign on the waste container stating "Concrete Slurry Waste Only" in English and Spanish.

2. The slurry shall be allowed to dry prior to disposal and the hardened slurry waste shall be disposed in accordance with Section 01 74 19.

C. Slurry Containment

1. If a large amount of concrete slurry waste is anticipated, the Contractor may construct an on-site slurry containment facility.

2. The Contractor shall submit a construction detail or design plan to the OAR to obtain the approval of the Airport Environmental Affairs Department (EAD) prior to construction.

3. The onsite containment may be accomplished through an excavation or constructing a berm to contain the slurry at the surface. Any containment area shall be lined with plastic a minimum of 10 millimeters thick.

4. The containment shall not be located within 50 feet of an inlet, swale, drainage way, channel, and other continuous or interim water body.

5. The Contractor shall place a sign adjacent to the containment stating “Concrete Slurry Waste Only” in English and Spanish.

6. The concrete slurry shall be removed by the Contractor when containment is 50 percent full, and always maintain a minimum of one (1) foot freeboard.

7. Allow slurry to dry before disposal.

   a. If it is not feasible to wait for slurry water to evaporate prior to disposal, the Contractor may coordinate with the EAD for additional options.

   b. Any water discharged from a slurry containment area shall not exceed a pH of 8.0.

8. The Contractor shall remove all materials used to construct the concrete slurry containment area from the work site and dispose of waste in accordance with Section 01 74 19.

3.2 CONCRETE TRUCK WASHOUT

A. General

1. The Contractor shall contain all concrete truck washout water to prevent discharge to a storm drain or surface water.

2. The concrete truck washout containers shall provide sufficient volume to completely contain all liquid and concrete waste generated during washout procedures and a minimum one (1) foot freeboard shall be maintained at all times.

3. The Contractor shall use a vacuum truck to remove excess water and prevent overflowing of the washout containers.

4. Any concrete truck washout shall be located a minimum of 50 feet away from an inlet, swale, drainage way, channel, and other continuous or intermittent water body.

5. The Contractor shall obtain written approval from the OAR and the Airport Operations Department prior to placing a concrete truck washout on the AOA.

B. Owner Provided Concrete Washout Bin

1. The Owner may supply a concrete washout bin for the Project under a separate contract. The EAD will determine if the Project meets the requirements to receive a concrete washout bin based on the size of the Project, amount of concrete to be poured, and location of the Project.
2. All requests for service for the Concrete washout bin shall be coordinated with the EAD, through the OAR, a minimum of 48 hours or two (2) Working Days in advance of the need.
3. The EAD will coordinate bin delivery, the removal of excess water, relocating a bin, replacing a bin, and removing a bin through the OAR.
4. The only materials allowed to be placed in the concrete washout bin are concrete waste and water from concrete mixer trucks, pump trucks, mixers, chutes, tools, and wheelbarrows. **Concrete slurry waste from sawcutting, grinding, and grooving is not allowed to be placed in the bin.**
5. The concrete washout bin shall not be moved or shifted in any way. Damage caused to the concrete washout bin shall be paid by the Contractor to the owner of the bin directly. Any damages not paid by the Contractor shall be deducted from the Contract Amount.

C. Contractor Provided Concrete Washout Facility

1. When the Owner will not supply a concrete washout bin, or that the bin provided is not suitable for the Contractor's operation, the Contractor may construct a concrete washout facility.
2. The Contractor shall submit a construction detail or design plan to the OAR for EAD approval prior to construction.
3. The washout facility shall include a containment area accomplished through an excavation or constructing a berm to contain the material at the surface. The containment area shall be lined with plastic a minimum of 10 millimeters thick.
4. The containment area shall be designed to provide six (6) cubic feet of storage for every ten (10) cubic yards of concrete poured.
5. The Contractor shall allow concrete washout to harden prior to disposal and the hardened waste shall be disposed in accordance with Section 01 74 19.
    a. If it is not feasible to wait for concrete wastewater to evaporate prior to material disposal, the Contractor shall coordinate through the OAR with the EAD for additional options of disposal.
    b. Any water discharged from the containment area shall not exceed a pH of 8.0.
6. The Contractor shall break down any residual materials and dispose such materials in accordance with Section 01 74 19.
7. The Contractor shall remove the containment area within seven (7) Calendar Days of completing the concrete pours, or a soon as the concrete has hardened in the containment area to avoid collecting stormwater or as otherwise directed by the OAR.

PART 4 – MEASUREMENT AND PAYMENT

Not Used.

- END OF SECTION -