

## 864 - STORMWATER TREATMENT UNITS

### 864.1 DESCRIPTION

Stormwater treatment units shall be constructed to the lines, grades, and dimensions shown on the plans.

### 864.2 MATERIALS

#### a. Approval

Each location has multiple units that can be used for that particular location which are listed in the plans. Stormwater treatment units shall be constructed to the size, thickness, and dimensions as required for a given model number as directed by the vendor. Contractor is responsible for any utility relocations to accommodate select units with dimensions and/or layouts that are different from those shown in the plans.

#### b. Mix Designs

All concrete used in construction of stormwater treatment units shall be a minimum of KCMMB 4K unless otherwise specified by the vendor.

#### c. Concrete Structures

All stormwater treatment structures used on this project shall be of precast concrete. Concrete structures shall be constructed of reinforced concrete as specified in "Concrete Construction"

#### d. Structural Steel

All structural steel shall conform to ASTM A36.

#### e. Reinforcing Steel

Reinforcing steel used in stormwater treatment units shall be ASTM A615 Grade 40.

#### f. Steps

Steps used in stormwater treatment units shall conform to ASTM C478.

#### g. Other Components

All castings, screens, fiberglass components or any other hardware components shall conform to the latest specifications of the given units vendor.

#### h. Shop Drawings

The details for stormwater treatment units shall be submitted to the City Engineer for approval. Details shall include a plan view of the unit location, including any required utility relocation. Horizontal and vertical dimensioning and reinforcement locations shall also be shown. Access covers and location shall also be submitted for approval by the City Engineer.

### 864.3 CONSTRUCTION REQUIREMENTS

All pipes entering or exiting precast structures shall be encased in a minimum of 6 inches of concrete all around the pipe for a distance of 24 inches adjacent to each structure.

The stormwater treatment unit shall be installed in accordance with the vendor's recommendations. It will be the Contractor's responsibility to coordinate with the vendor for any special instructions or techniques to be used during installation of the unit. The vendor shall have a representative available to be on the job site during installation of the units.

The Contractor shall be responsible for removing sediment from the stormwater treatment unit prior to final acceptance.

### 864.4 MEASUREMENT AND PAYMENT

The Engineer will measure each stormwater treatment unit of the specified size or type.

Payment for "Stormwater Treatment Unit" at the contract unit prices bid is full compensation for the specified work. Diversion structures for offline stormwater treatment units and any utility relocations required for larger structures than shown on the plans shall be considered subsidiary to stormwater

treatment units. Removal of sediment prior to final acceptance shall be considered subsidiary to stormwater treatment units.