15TH ST. & ALLIANCE RD.
SEE SHEET C112 FOR PROFILE AND CROSS SECTIONS

17TH ST. & ALLIANCE RD.
**NOT FOR BID USE**

**TYPICAL TRENCH DETAIL**

1. CONCRETE SHALL BE A LIGHT BROOM FINISH.
2. RISERS SHALL BE NO LESS THAN 4" TALL AND NO GREATER THAN 7" TALL AND VARY NO MORE THAN 3/8" IN HEIGHT.
3. ALL EXTERIOR STAIR THREADS SHALL HAVE 2" MIN. WARNING STRIPES PER CBC 1133B.4.4.
4. CONCRETE TO BE 2,500 PSI MIN.
5. POURED CONCRETE OVER COMPACTED SUBGRADE.
6. RAILING FOR STEPS TO BE DETERMINED FOR SITE CONDITION BASED ON REQUIREMENTS.
7. THE TOP AND BOTTOM LANDINGS SHALL SLOPE NO MORE THAN 2% IN ANY DIRECTION.
8. BASE OF CONCRETE TO BE 6" BELOW FINISHED GRADE.
9. CONCRETE TO BE COVERED WITH PLASTIC SHEETING CONTINUOUSLY THROUGH THE WALLING WITHIN 48 HOURS.
10. CONCRETE TO BE COVERED WITH PLASTIC SHEETING AND UV COVER.

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**TYPICAL MODIFY STORM DRAIN INLET TO STORM DRAIN JUNCTION BOX**

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**TYPICAL NON-TRAFFIC AREA STORM DRAIN MAN HOLE DETAIL**

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**TYPICAL DRAIN INLET DETAIL**

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**TYPICAL TRENCH DETAIL**

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**TYPICAL NON-TRAFFIC AREA STORM DRAIN MAN HOLE DETAIL**

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**TYPICAL STORM DRAIN INLET TO STORM DRAIN JUNCTION BOX**

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**TYPICAL TRENCH DETAIL**

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**TYPICAL NON-TRAFFIC AREA STORM DRAIN MAN HOLE DETAIL**

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**TYPICAL DRAIN INLET DETAIL**
TYPICAL ELEVATED CROSSING DETAILS

SPEED HUMP ADVANCE WARNING MARKINGS DETAIL

TYPICAL BOLLARD DETAIL

TYPICAL WOOD FENCE DETAIL

TYPICAL GRAVITY RETAINING WALL DETAIL
**Description of Components:**

**Housing:**
In a round shape, this housing is made of die cast A380 aluminum, c/w a watertight grommet, mechanically assembled to the bracket with four bolts 5/16-18 UNC. This suspension system permits for a full rotation of the luminaire in 90 degree increments.

**Access-Mechanism:**
A die cast A360 aluminum technical ring with latch, hinge and a cast-in decorative skirt. The mechanism shall offer toolfree access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofing.

**Light Engine:**
LifeLED™ composed of 4 main components:
- LED lamp / Optical System / Heat Sink / Driver

Electrical components are RoHS compliant.

**Lens:**
Made of soda-lime tempered glass lens, mechanically assembled and sealed onto the lower part of the heat sink.

**Lamp:**
(L included), Lamp type Philips Lumileds Rebel ES. Composed of 30 high-performance white LEDs, 40w lamp wattage. Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifespan after which the system emits 70% of its original lumen output, all of those parameters are tested for 100% of light engines. Use of a metal core board insures greater heat transfer and longer lifespan of the light engine.

**Optical System:**
(LE2F), IES type II (asymmetrical). Composed of high-performance acrylic collimators, optimized with varying beam angles to achieve desired distribution. System is rated IP66. Performance shall be tested per LM63 and LM79 (IESNA) certifying its photometric performance. Street-side indicated.

**Heat Sink:**
Made of cast aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

**Driver:**
High power factor of 90%. Electronic driver, operating range 50/60 Hz. Primary voltage to be determined. Allowed voltage are 120, 208 or 240 volt. Lamp starting capacity -40F(-40C) degrees. Assembled on a unitized removable tray with quick disconnect plug.

**Luminaire Dimensions:**
- EPA : .64 sq ft
- weight: 35 lb (15.9 kg)

**Note:**
3D image may not represent color or option selected.

**Logos above include link, click to access.**

**NOT FOR BID USE**