

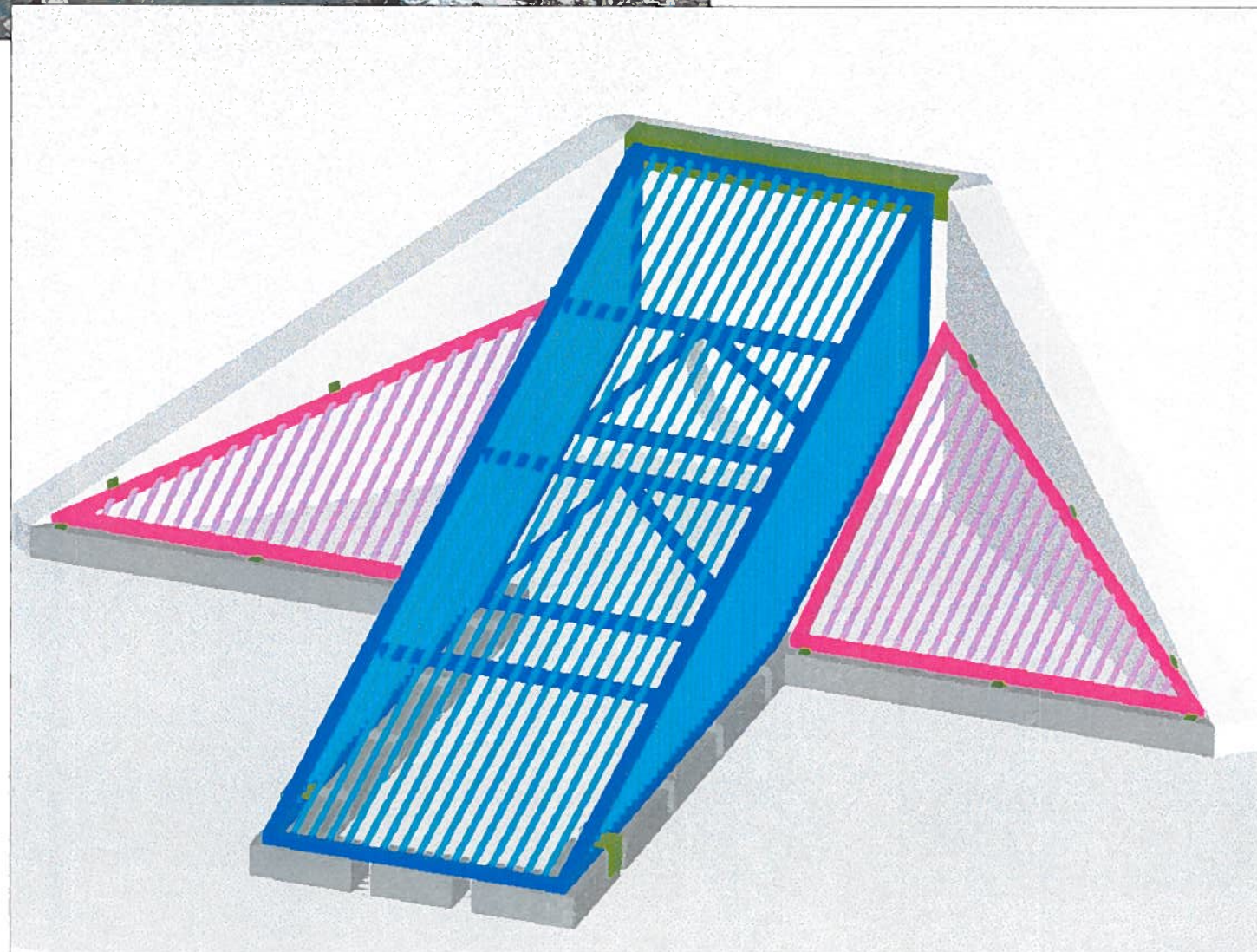


Existing Conditions

Project Overview

This project consists of renovating the existing outlet structure at the Race Track Detention Pond. The Race Track is located in the Northeast portion of the New Mexico State Fairgrounds. The existing trash rack, located at the northern end of the three ponds in a series, will be removed from the outlet structure and replaced with a larger fabricated steel trash rack. To facilitate the installation of the new rack, a small concrete "U" wall will also be constructed to support the new trash rack. The new trash rack is comprised of three components. The middle is hinged at the top and the largest of the three pieces. The two outer components are the wings to fill the void space and allow sufficient flow area.

Proposed Replacement
Rack



DMD 2003-1 On Call Const.
TLC Plumbing
Jun 2004

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAINAGE

TITLE:

New Mexico State Fair
Racetrack Detention Pond
Outlet Works Renovation

CITY PROJECT NO.
719605

ZONE MAP NO.
K-18

SHEET 1 OF 9

General Notes

- 1. All work detailed on this project will be performed in accordance with current "City of Albuquerque Standard Specifications for Public Construction".
- 2. All work on this project shall be performed in accordance with applicable Federal, State and local laws, rules and regulations concerning construction safety and health.
- 3. The Contractor shall notify all utility companies when working near their systems. Two days prior to any excavation, Contractor must contact New Mexico One-Call for location of existing utilities.
- 4. Removals shall be disposed of off-site and shall be the responsibility of the Contractor.
- 5. The Contractor shall dispose of all unsuitable material in an environmentally acceptable manner at a location acceptable to the Project Manager. There will be no direct compensation for this work.
- 6. Contractor shall provide a temporary storm drainage system (Subject to approval by the City of Albuquerque Department of Municipal Development, Storm Drainage) for all work on this project. The temporary system shall be capable of safely conveying existing runoff across the project site and discharging into the existing storm drainage system.
- 7. Access to the project site will be through existing gates in the perimeter fence currently enclosing the project site.
- 8. All dimensions shown on the drawings for existing structures are approximate dimensions and should be checked in the field by the Contractor prior to start of construction. Trash rack fabrication will not be started until the construction of the new supporting concrete walls has been completed and final trash rack dimensions have been determined.
- 9. An existing concrete pad underlies all of the proposed renovation work and sections of the pad will have to be cut in order to allow for the placement of the new proposed concrete walls and footings. The majority of the existing concrete pad shall not be disturbed and any needed excavations thru the existing pad will be accomplished by concrete saw cuts with minimal disturbance of the existing pad. After the placement of the new concrete walls and footings, any voids left between the new concrete and the existing concrete pad will be filled with 4000 PSI concrete as directed by the Project Manager.
- 10. All structural metal work shall be painted in accordance with Section 157, Paint, of the City of Albuquerque Standard Specifications for Public Construction. Service Condition "B" of this section will be complied with.

General Trash Rack Construction Notes

- 1. Existing rack will be stockpiled on-site to be removed by COA Storm Sewer Maintenance.
Outside frame and internal supports of trash rack are to be fabricated from 2-in. x 2-in. Structural Tubing (square). The proposed Wall Thickness is 1/4-in. and 3/16-in. as specified in Sheet 7.
- 2. Inner rack bars on sloping and vertical faces of trash rack are fabricated from Standard weight 1-in. nominal diameter pipe (outside diameter, 1.315 in.)
- 3. Inner rack bars on sloping and vertical faces are to be spaced with 2-inches open spacing between each bar.
- 4. All steel fabrication shall be continuously arc-welded and by a "certified welder."

General Concrete Construction Notes

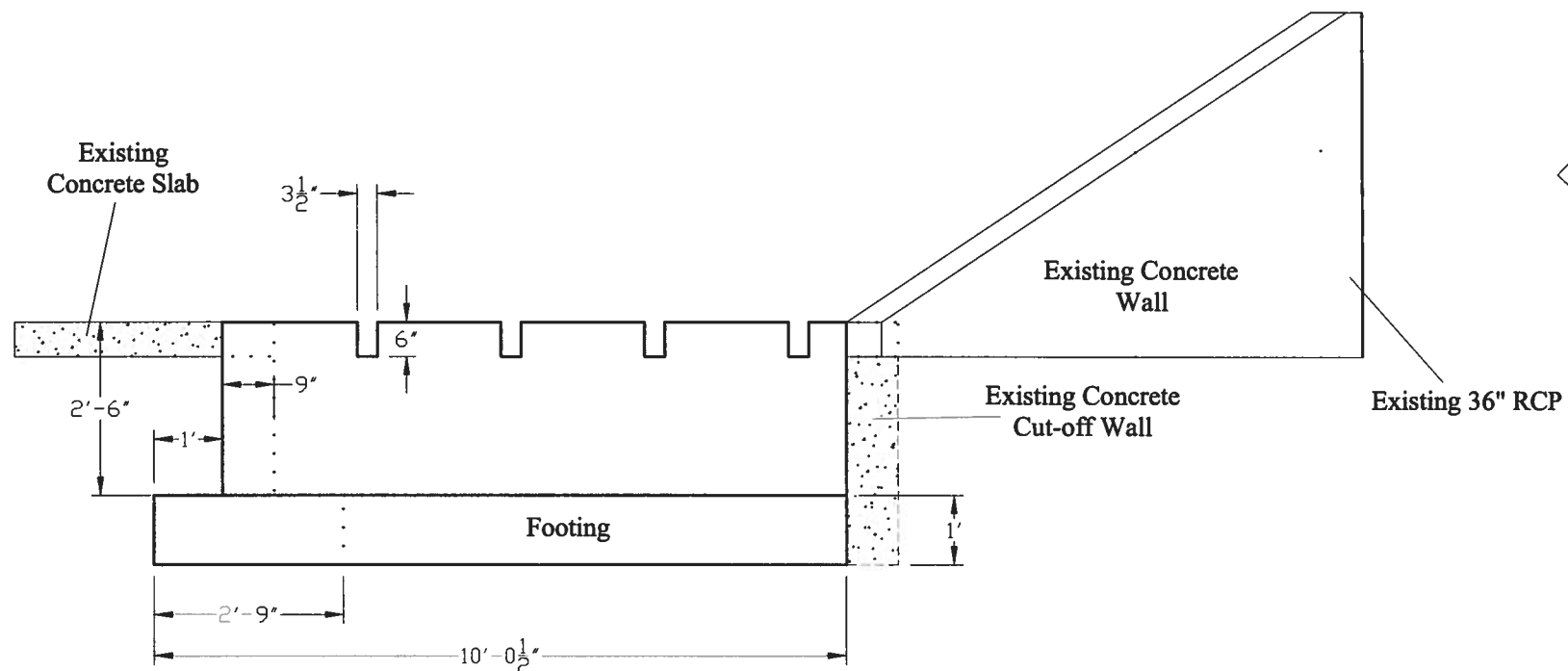
- 1. All new concrete shall have a 28-day strength of 4000 psi.
- 2. All new concrete shall be reinforced with No. 4 rebar @ 6" O.C., each way, unless otherwise specified.
- 3. All exposed wall edges shall have a 3/4" chamfer.
- 4. Use a latex adhesive coating (or equivalent bonding agent) between old and new concrete where there is no expansion joint specified.

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAINAGE

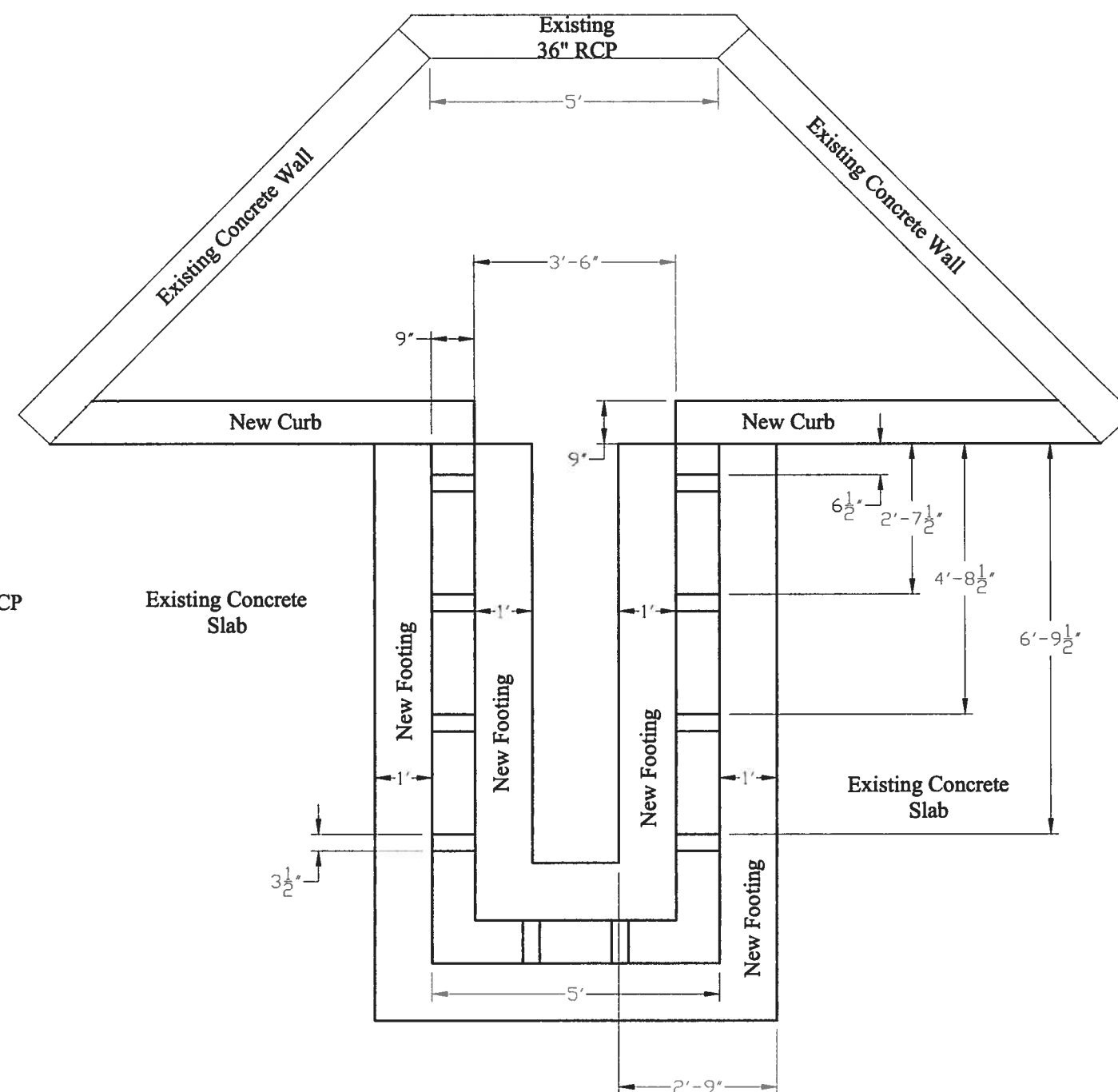
TITLE:

General & Construction Notes
New Mexico State Fair
Racetrack Detention Pond

Side View (scale $3/8" = 1\text{ft}$)



Top View (scale 3/8" = 1ft)



CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAINAGE

TITLE:

Concrete Details

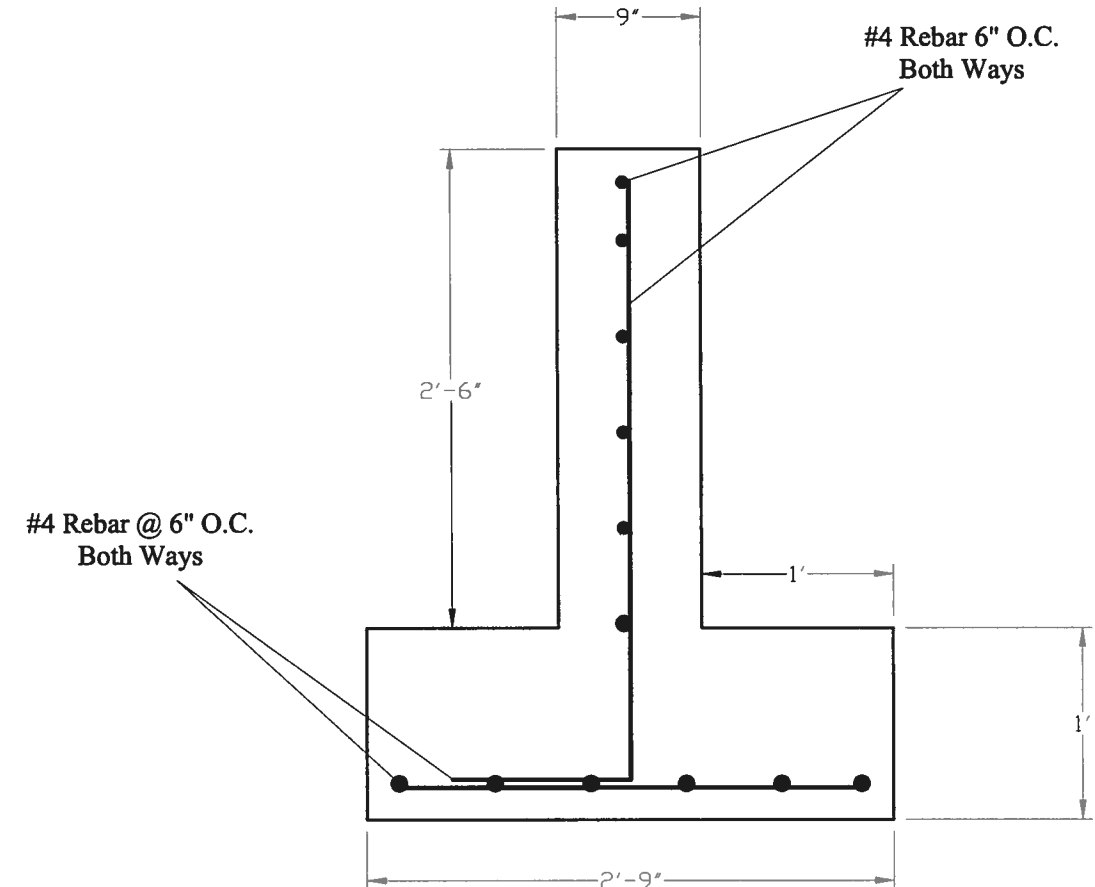
New Mexico State Fair Racetrack Detention Pond

CITY PROJECT NO. 719605

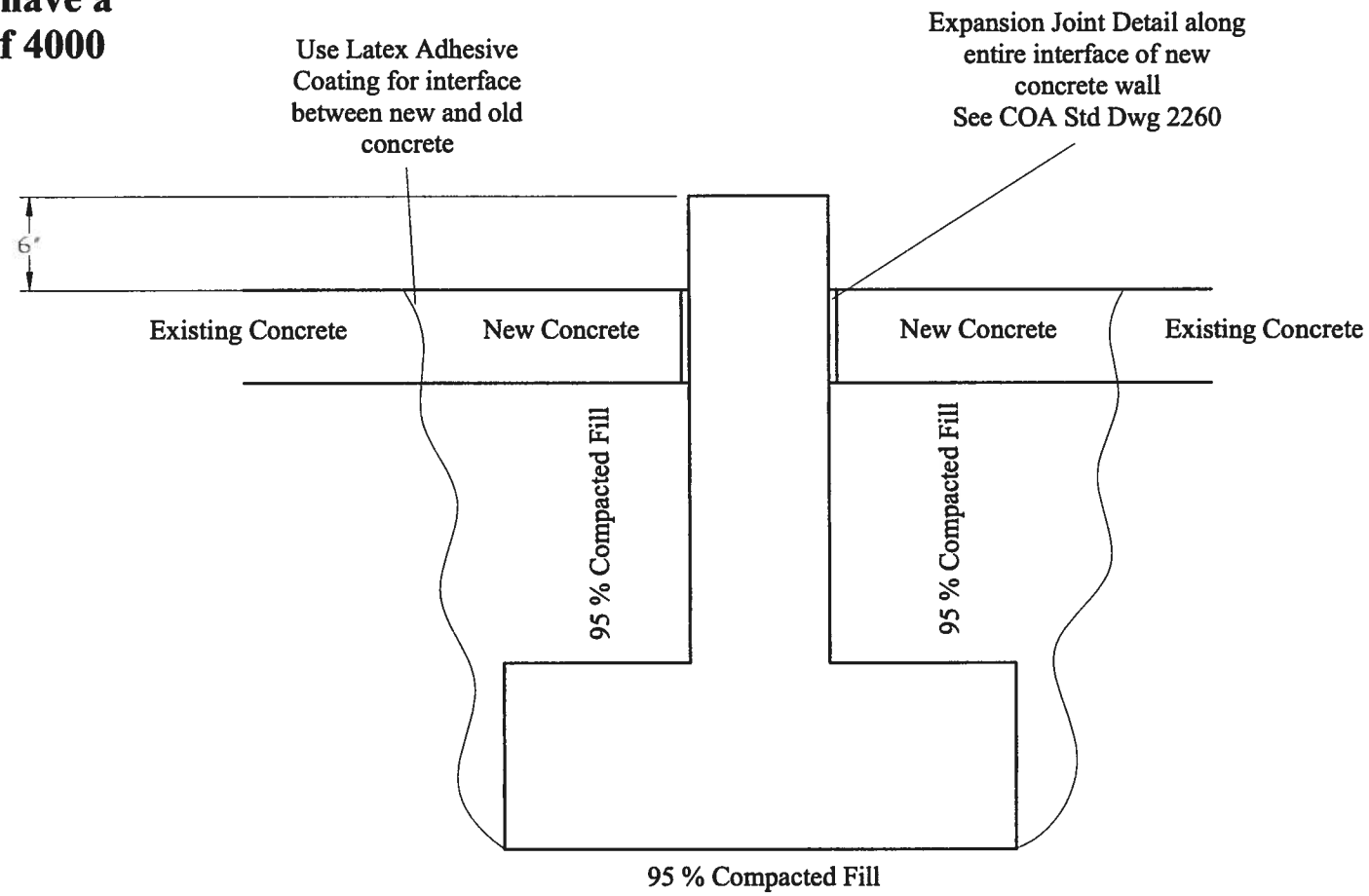
ZONE MAP NO.
K-18

SHEET	OF
3	

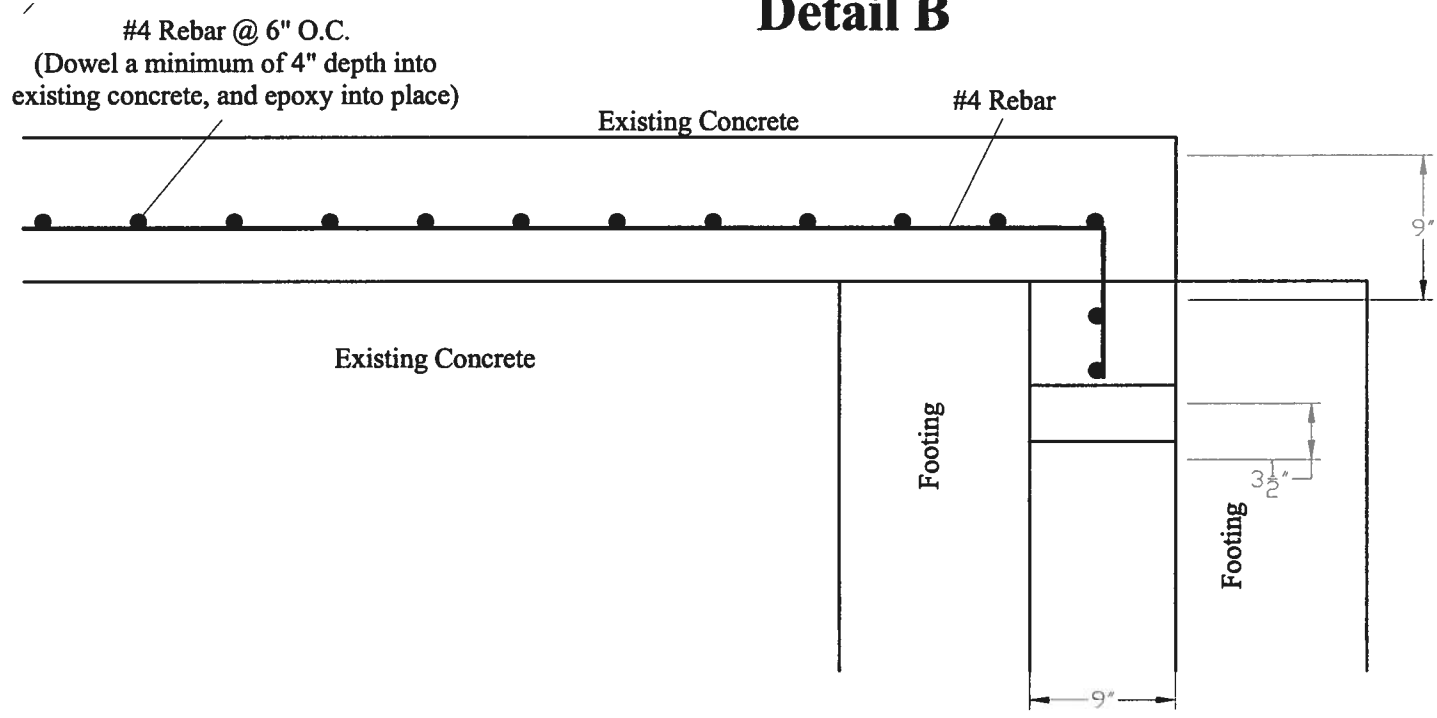
**All concrete shall have a
28-day strength of 4000
PSI**



New Wall and Footing Detail
scale 1" = 1 ft
Detail A



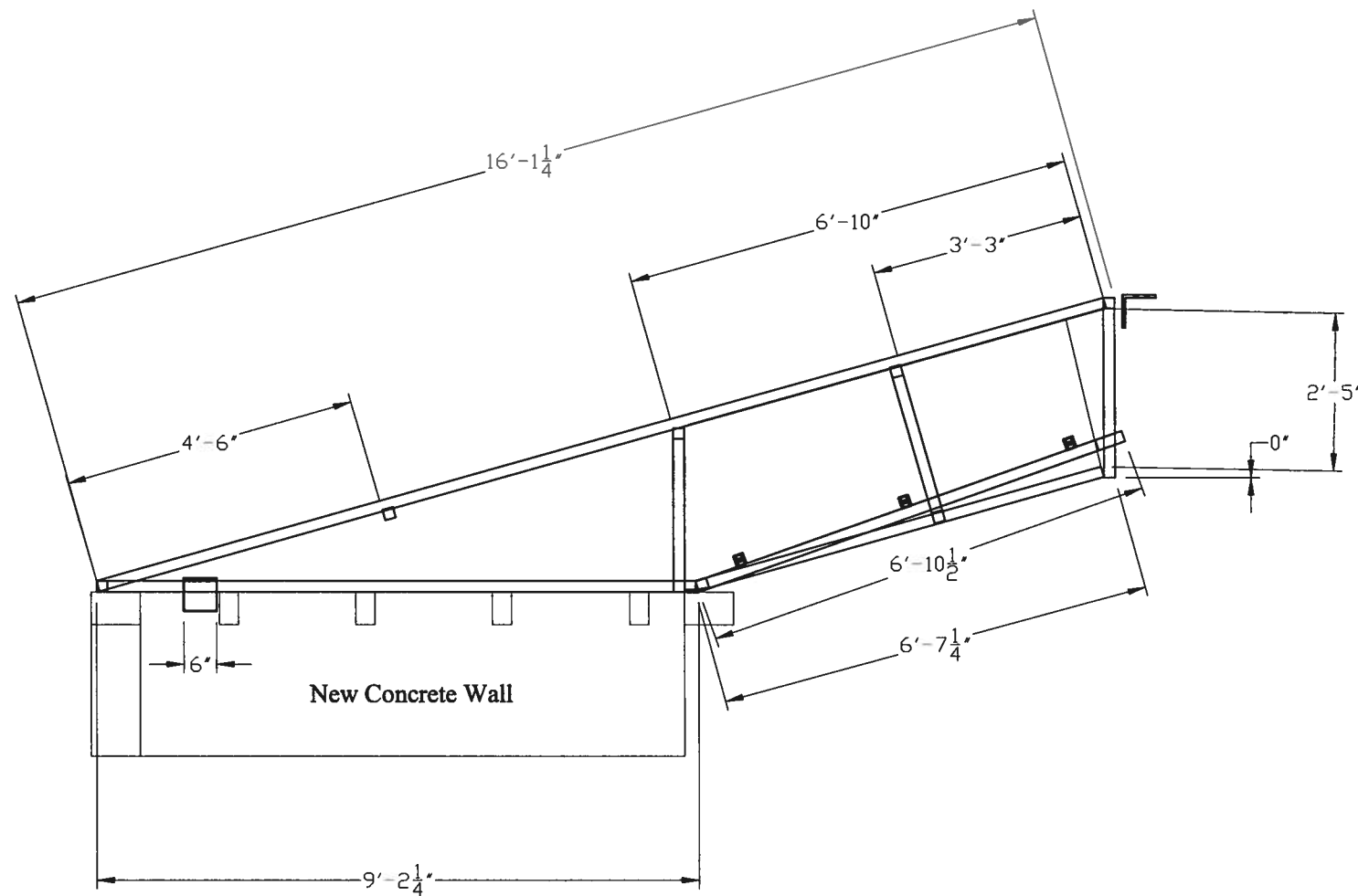
**New Wall and Footing
Expansion Joint Details**
Detail C



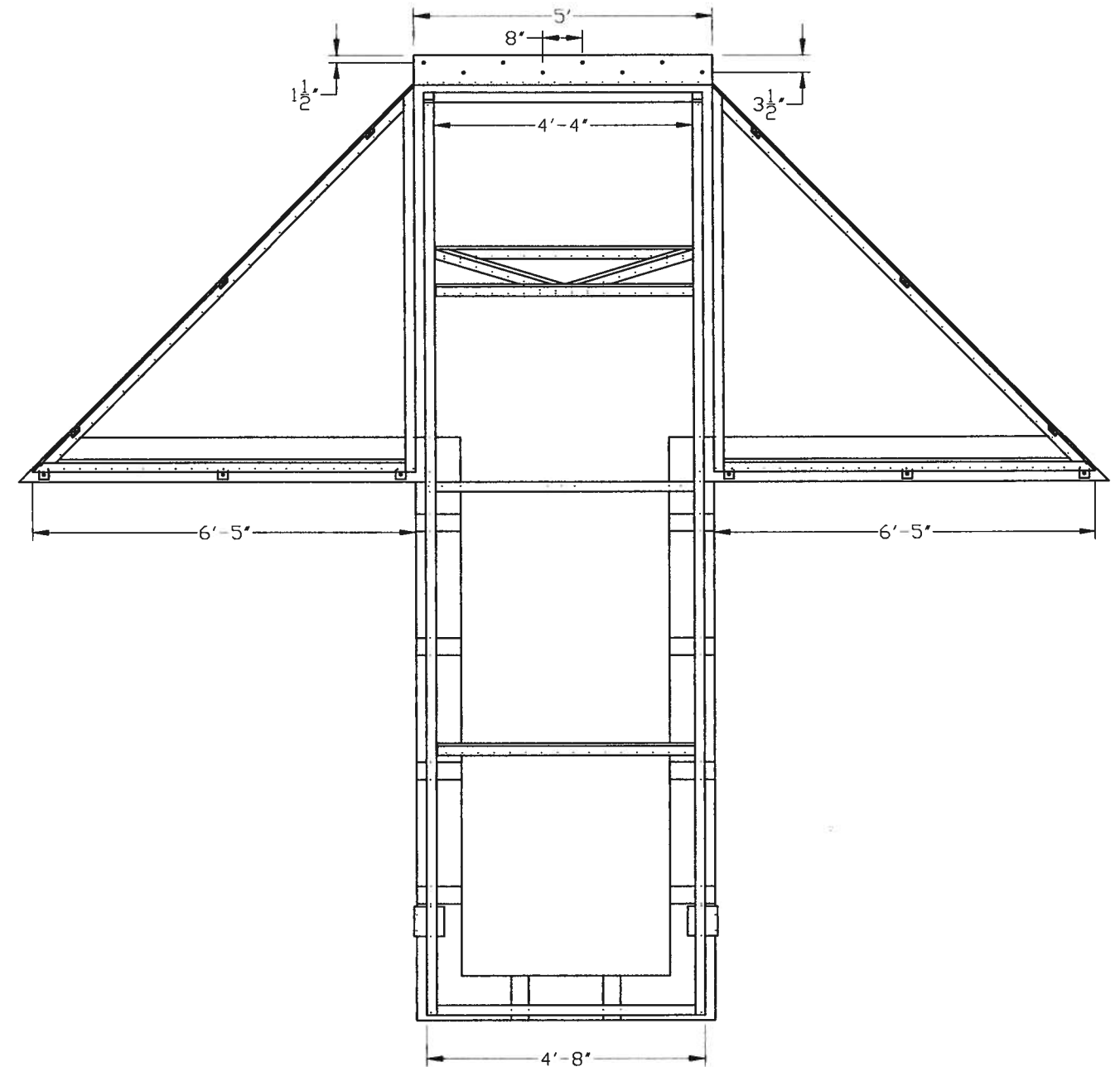
New Wall Detail
scale 1" = 1 ft
Detail B

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT STORM DRAINAGE			
TITLE: Concrete Rebar Details New Mexico State Fair Racetrack Detention Pond			
CITY PROJECT NO. 719605	ZONE MAP NO. K-18	SHEET 5	OF 9

Side View (scale 3/8" = 1ft)



Top View (scale 3/8" = 1ft)



Note: Filler bars and existing concrete removed for frame clarity

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAINAGE

TITLE:

Trash Rack Frame Details
New Mexico State Fair
Racetrack Detention Pond

CITY PROJECT NO.

719605

ZONE MAP NO.

K-18

SHEET

OF

6

9

Isometric View

Use 1/2" diameter by 5" long expansion anchors. Stagger along length at 8" increments (approx. eight anchor bolts)

Can use prefabricated hinges that can handle 1000 lbs each. (Total of 3 hinges)

Stuctural SquareTubing
2" x 2", 1/4" thick

Stuctural Square Tubing
2" x 2", 3/16" thick,
unless otherwise specified

1" nominal diameter
Standard Pipe
(Outside Diameter 1.315")

2" Open Space

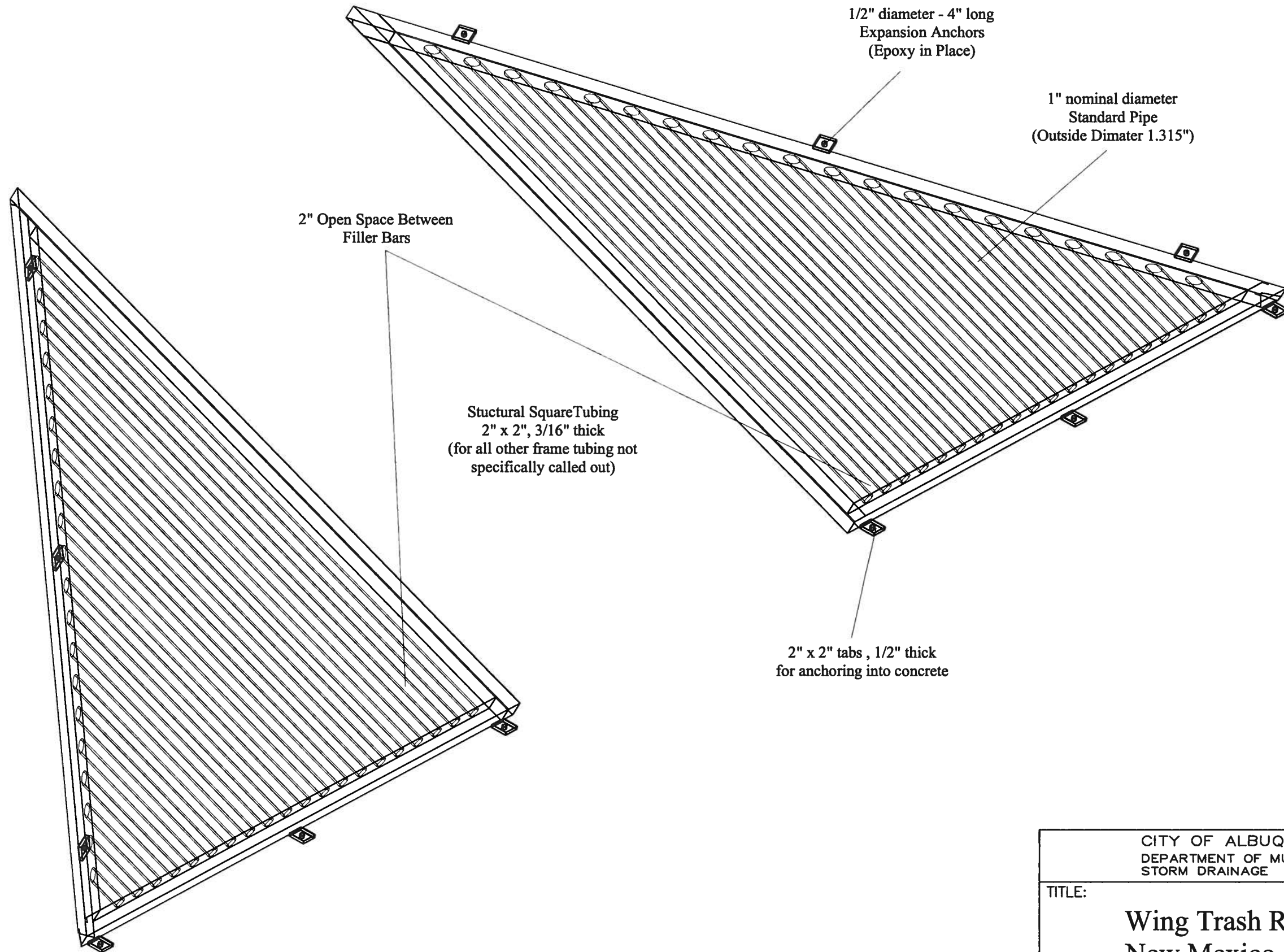
6" x 6" x 1/2" Angle

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAINAGE

TITLE:

Center Trash Rack Details
New Mexico State Fair
Racetrack Detention Pond

Isometric View



CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
STORM DRAINAGE

TITLE:

Wing Trash Rack Details
New Mexico State Fair
Racetrack Detention Pond

CITY PROJECT NO.

719605

ZONE MAP NO.

K-18

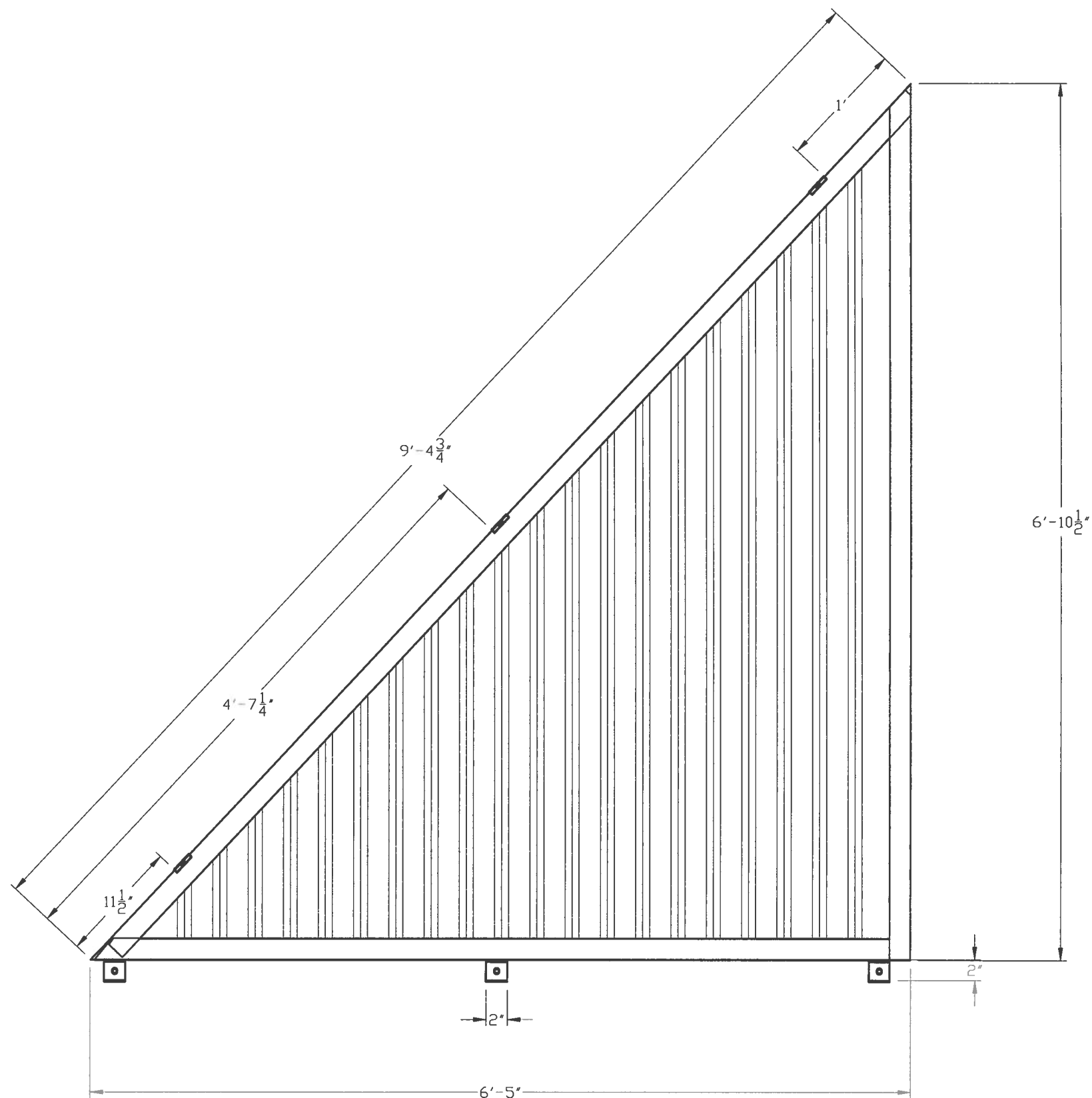
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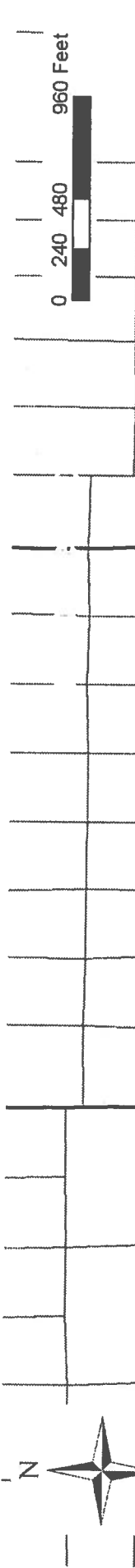
8

9

Top View (scale 1" = 1ft)



CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT STORM DRAINAGE	
TITLE: Wing Trash Rack Details New Mexico State Fair Racetrack Detention Pond	
CITY PROJECT NO. 719605	ZONE MAP NO. K-18
SHEET 9	OF 9



LOMAS

LOUISIANA

SAN PEDRO

CENTRAL

