

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



June 4, 2013

Mr. Mario G. Juarez-Infante, P.E.
Attn: Ms. Claudia Diaz
Wilson & Company, Inc.
4900 Lang Avenue NE
Albuquerque, New Mexico 87109

Richard J. Berry, Mayor

RE: **Matheson Park Elementary School Site Improvements** **H21-D036**
4410 Irving Blvd. NW PE Stamp: 4/22/2013
Grade & Drain Plan for Grading, Paving and SO-19 Permits

Dear Mr. Juarez-Infante:

Based upon the information provided in your submittal received 05-16-2013, the above referenced plan cannot be approved for Grading, Paving or an SO-19 Permit.

Please review and address the following issues prior to resubmittal:

- PO Box 1293
- Albuquerque
- New Mexico 87103
- www.cabq.gov
1. C-102: Improve the readability of the Location Map (label major streets, Morris and Juan Tabo), Soil Map and Flood Map (too dark to read).
 2. C-102: Provide a Bench Mark for this site, tied to a COA survey monument.
 3. C-102: The Table of Orifice computations at the upper left corner of the sheet, obscures the labeling for AP-1. This table needs better labeling for itself, and should be located near the water quality inlet to which it apparently applies.
 4. C-102: The inclusion of Basin Boundary Lines on the G& D Plan obstructs important information on the G&D. Separate the Basin map, or use a different basin line symbology to clarify all info. (e.g.- The wide line along the channel masks over the ridge line that keeps flows on the site.)
 5. C-102: Clarify the Basin lines (existing vs. proposed) near the SW corner of the site.
 6. C-102: Contour elevations and spot elevations on the G&D are too small to read.
 7. C-102: As part of the Grading and Drainage Plan, label the various surface treatments throughout the site, which support the runoff calculations (e.g.- Building, Turf, Pavement, BB Court, etc.), and provide spot elevations on permanent features.
 8. C-102: Label pipe line sizes and flow direction arrows on all existing and proposed storm drain piping.

CITY OF ALBUQUERQUE



June 4, 2013
H21-D036
Matheson Park Elementary School
Page 2

9. C-102: Show how the flows intercepted by the new storm drain inlets along the NW edge of the site get treated for silt removal before entering the public drainage R/W. It appears as though this line is connected to the interior of the Water Quality Inlet, thus bypassing any sediment trap.
10. C-102: Provide a better description of the proposed desiltation facilities at the SW corner of the site, and a clear description of the SO-19, Private Drainage Facilities in Public R/W. Existing and proposed grades in the pond area are not legible at this scale. Clarify how the Water Quality Inlet will be positioned and function within this setting, and detail how the outfall pipe and existing rundown will be built.
11. C-102: The SO-19 notes need to include a signature line for the City Inspector, and may need to be moved, if the SO-19 details are described in an enlargement on another sheet.
12. C-102: Many of the notes and Key Notes make reference to "STD DWGS ####." It is presumed that these references are to **City of Albuquerque Standard Drawings**. A general note should clarify that reference. Also, details on C-502 reproduce some of the COA Stnd. Dwgs., so this plan set needs to clearly identify which details apply.
13. C-103: Key Note 1 refers to Detail A1, which is not found on C-502.
14. C-102: Key Note 5 refers to a Channel Penetration detail not found on C-502.
15. C-102: Key Note 9 proposes a 6-ft. diameter storm drain manhole that appears to intercept the existing 18" storm line to the channel. It appears from our records that the existing line is shallower than the proposed line. Will flows in the existing line be diverted into the new system? Clarify this installation, and provide invert elevations on the existing line at the crossing/tie-in. [*Is this MH really needed, or could the new system simply cross under/over the existing, without interconnecting the flows ?*]
16. C-102: The plan near the SW corner apparently includes a retaining wall and conc. slab per Detail A2 on C-502. Show the limits of the retaining wall and provide top of wall and bottom of wall grades. Also, provide limits for the concrete slab, or include sheet 403, if that's more appropriate.
17. C-103: Label some of the contour lines on the enlarged plans for clarity.
18. C-501: Detail A4 shows the main line to be 18" SDR-35 PVC, which differs from the ADS called out on C-102. Also, this detail does not provide a spec for the 12" riser pipe.

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CITY OF ALBUQUERQUE



June 4, 2013
H21-D036
Matheson Park Elementary School
Page 3

19. C-502: Multiple sets of General and Construction Notes should be corralled within borders to clarify where they apply.
20. C-502: Check spelling in the General and Construction Notes in the center of the sheet.
21. C-502: Similar to comment 12, above, clarify if references are to COA STND DWGS.
22. C-502: Details A3 and D3 replicate COA STND DWGS. Since the notes refer to the STND DWGS, it seems these details will not apply. What is the intent?
23. C-502: Detail A2 Retaining Wall seems to have the "L-type" wall footing and reinforcement reversed for reinforced conc. design strength; please verify. Also, show the relative position of the property line in this section and dimension wall offset.
24. C-502: Detail A2 shows a concrete slab, per Detail C3/403, which was not submitted.
25. C-502: Detail C3, Sections A-A and B-B need to show where the design grade is for the pond bottom, so that the Water Quality inlet tubes are exposed to flow.
26. C-502: In Section B-B, if the pond invert elevation is below the inlet tubes, then the 24" outlet pipe will be exposed outside the structure, until it enters the slope of the channel. Will this exposed pipe be RCP, as it must be once it crosses the property line onto channel R/W? How will pond water be prevented from "piping" along the outfall pipe trench backfill?
27. C-502: This sheet refers to additional Inlet Details on Sheet C-504, which was not received with this submittal.

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As discussed with Ms. Diaz, I would be glad to meet with you if there are questions or clarifications relative to this submittal.
Please email me at grolson@cabq.gov or phone 924-3994.

Sincerely,

Gregory R. Olson, P.E.
Senior Engineer

Orig: Drainage file **H21/D036**
c.pdf Addressee via Email Mario.Juarez-Infante@WilsonCo.com
Claudia Diaz via Email Claudia.Diaz@WilsonCo.com