## CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

February 21, 2017

David Aube, P.E. Design Group 120 Vassar SE, Suite 100 Albuquerque, NM, 87106

RE: GAHP Silver Downtown

800 Silver SW

Grading Plan Engineer's Stamp Date: 1/30/2017

Hydrology File: K13D013

Dear Mr. Aube:

Based upon the information provided in your submittal received 2/10/17, the Grading Plan is not approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

PO Box 1293

- Albuquerque
- New Mexico 87103

www.cabq.gov

- 1. The drainage sheets still state conceptual and do not appear to be part of the construction plans. Remove conceptual references to include as part of the submittal.
- 2. The SO-19 notes need to be included in construction set, either C101 or C201. Reference standard drawing 2235 and include standard SO-19 notice language.
- 3. There is a reference to a constrictor plate for the draining the parking lot to the ally, but none is shown on the construction plans. Provide location and details for this.
- 4. It was agreed during the review for SPBP that the wide buffer between the back of curb and the edge of sidewalk would be used to help mitigate nuisance ponding on Silver and 9<sup>th</sup> Street, by including new curb cuts on the ex. curb. This would help the site achieve the capture of the first flush volume. It needs to be shown on the plan.
- 5. The 2" depression in the sidewalk buffer does not account for the running slope along top of curb and along the sidewalk. This means the depression will not retain a uniform 2" deep pool. This area needs to be supplemented with a 5:1 gravel filled swale and curb cuts with shallow ponding to allow in flows from Silver and 9<sup>th</sup> Street.
- 6. The ponding volume for the parking area does not account for the running slope across the parking lot toward the ally. This means the gravel areas will not retain a uniformly deep 2" of water.

Orig: Drainage File

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Albuquerque - Making History 1706-2006

## CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

7. There is a grate elevation shown in area A5. Is there an interior storm drain network or is this to plumb the trash area into the sanitary sewer?

If you have any questions, contact me at 924-3695 or dpeterson@cabq.gov.

Sincerely,

Dana Peterson, P.E.

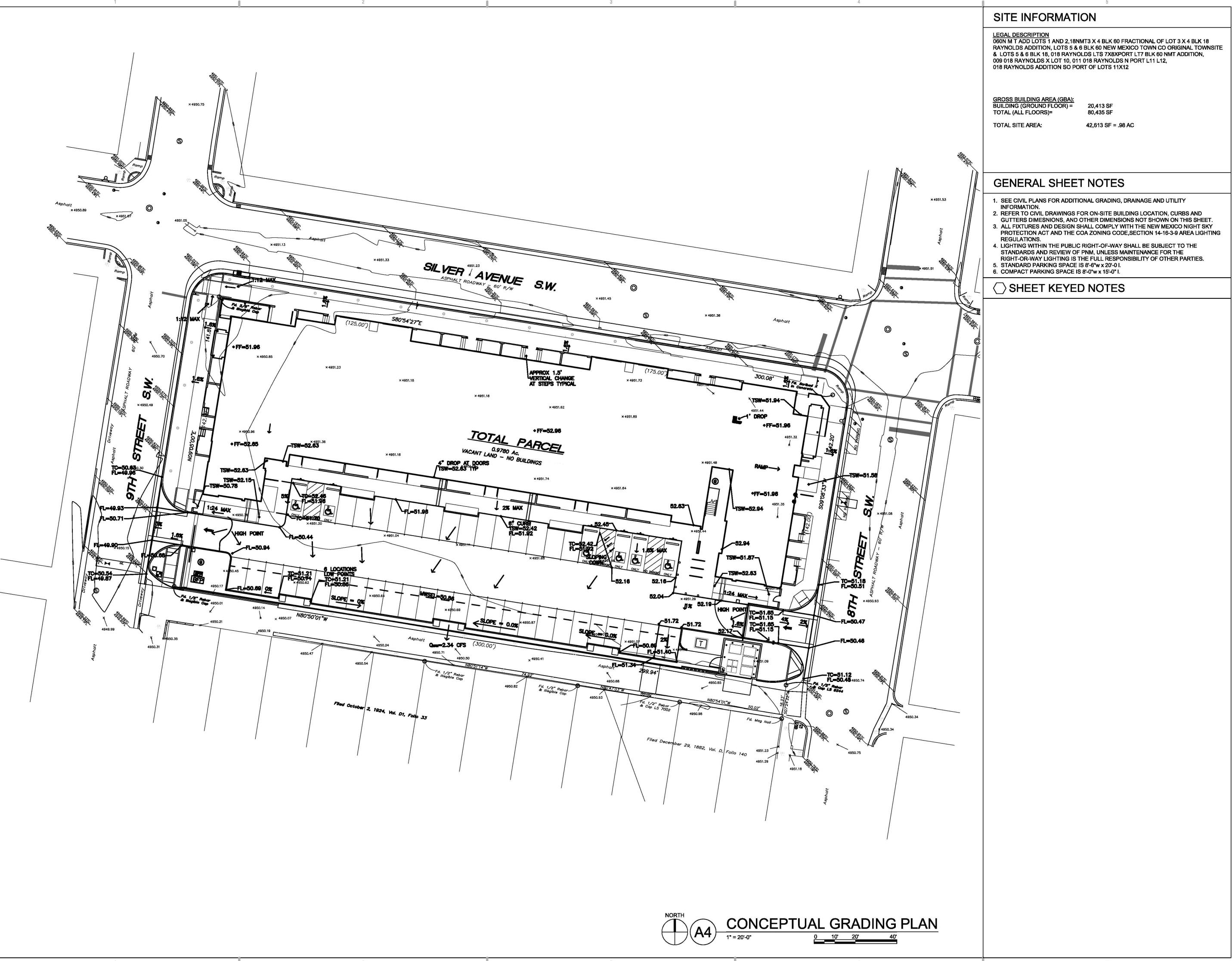
Senior Engineer, Planning Dept. Development Review Services

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- STANDARDS AND REVIEW OF PNM, UNLESS MAINTENANCE FOR THE RIGHT-OR-WAY LIGHTING IS THE FULL RESPONSIBILITY OF OTHER PARTIES.

  5. STANDARD PARKING SPACE IS 8'-6"w x 20'-0 I.

  6. COMPACT PARKING SPACE IS 8'-0"w x 15'-0" I.

ARCHITECTURE / DESIGN / INSPIRATION

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3 1/30/2017 DRT COMMENTS

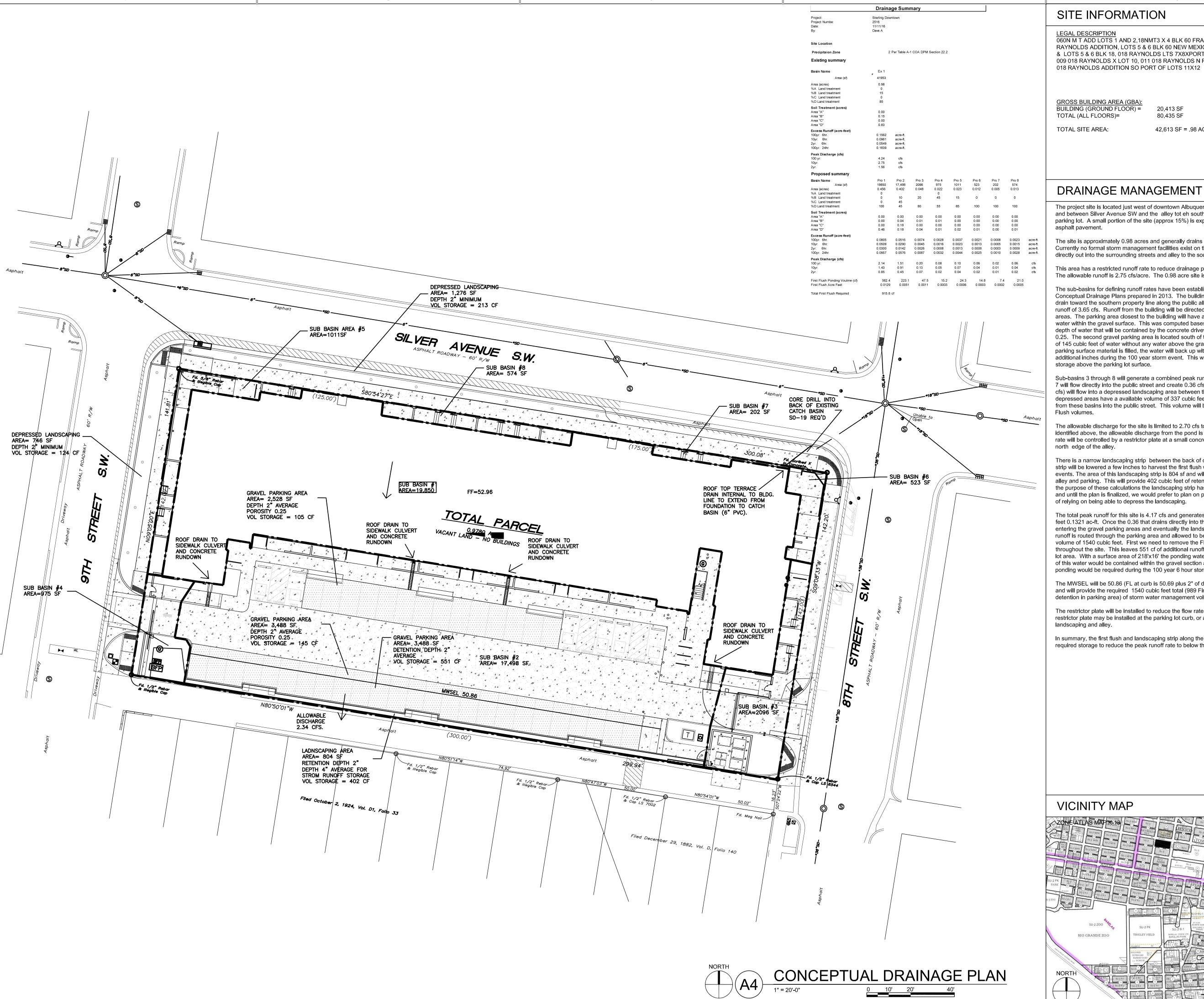
DRAWN BY Nov. 18, 2016 PROJECT NO. 16-0078

**DRAWING NAME** 

CONCEPTUAL GRADING PLAN

SHEET NO.

SDP-3.1R1



#### SITE INFORMATION

<u>LEGAL DESCRIPTION</u>
060N M T ADD LOTS 1 AND 2,18NMT3 X 4 BLK 60 FRACTIONAL OF LOT 3 X 4 BLK 18 RAYNOLDS ADDITION, LOTS 5 & 6 BLK 60 NEW MEXICO TOWN CO ORIGINAL TOWNSITE & LOTS 5 & 6 BLK 18, 018 RAYNOLDS LTS 7X8XPORT LT7 BLK 60 NMT ADDITION, 009 018 RAYNOLDS X LOT 10, 011 018 RAYNOLDS N PORT L11 L12.

GROSS BUILDING AREA (GBA):
BUILDING (GROUND FLOOR) =

20,413 SF TOTAL (ALL FLOORS)= 80,435 SF

TOTAL SITE AREA:

42,613 SF = .98 AC

#### DRAINAGE MANAGEMENT

The site is approximately 0.98 acres and generally drains from north east to the south west. Currently no formal storm management facilities exist on the site. The excess runoff flows directly out into the surrounding streets and alley to the south.

This area has a restricted runoff rate to reduce drainage problems in the surround neighborhood. The allowable runoff is 2.75 cfs/acre. The 0.98 acre site is allowed a peak runoff rate of 2.70 cfs.

The sub-basins for defining runoff rates have been established similar to the previously approved Conceptual Drainage Plans prepared in 2013. The building and a majority of the parking lot will drain toward the southern property line along the public alley. These two basins generate a peak runoff of 3.65 cfs. Runoff from the building will be directed toward two gravel surfaced parking areas. The parking area closest to the building will have a storage volume of 105 cubic feet of water within the gravel surface. This was computed bases on the area of the parking lot, average depth of water that will be contained by the concrete driveway up the center and a porosity of 0.25. The second gravel parking area is located south of the center driveway and has a capacity of 145 cubic feet of water without any water above the gravel surface itself. Once the gravel parking surface material is filled, the water will back up within the parking areas approximately 2 additional inches during the 100 year storm event. This will provide 583 cubic feet of water storage above the parking lot surface.

Sub-basins 3 through 8 will generate a combined peak runoff rate of 0.52 cfs. Basins 3, 4, 6 and 7 will flow directly into the public street and create 0.36 cfs. The remaining basins 5, and 8 (0.16 cfs) will flow into a depressed landscaping area between the sidewalk and curb. These depressed areas have a available volume of 337 cubic feet and would fully contain any runoff from these basins into the public street. This volume will be used in conjunction with the First Flush volumes.

The allowable discharge for the site is limited to 2.70 cfs total. After removing the 0.36 cfs identified above, the allowable discharge from the pond is 2.70 - 0.36 = 2.34 cfs. This discharge rate will be controlled by a restrictor plate at a small concrete wall (tall header curb) along the north edge of the alley.

There is a narrow landscaping strip between the back of curb and the alley. This landscaping strip will be lowered a few inches to harvest the first flush water when available from storm events. The area of this landscaping strip is 804 sf and will be recessed 4" from the surrounding alley and parking. This will provide 402 cubic feet of retention and will reduce excess runoff. For the purpose of these calculations the landscaping strip has been omitted. This area is sloping and until the plan is finalized, we would prefer to plan on ponding within the parking lot area in lieu

The total peak runoff for this site is 4.17 cfs and generates a excess runoff volume of 5755 cubic feet 0.1321 ac-ft. Once the 0.36 that drains directly into the street is removed the peak runoff runoff is routed through the parking area and allowed to be released at 2.34 cfs, a detention volume of 1540 cubic feet. First we need to remove the First Flush Volume of 989 cubic feet throughout the site. This leaves 551 cf of additional runoff tht needs to be detained int eh parkign lot area. With a surface area of 218'x16' the ponding water would be an average of 2" deep. Part

The MWSEL will be 50.86 (FL at curb is 50.69 plus 2" of depth for ponding water in parking area)

The restrictor plate will be installed to reduce the flow rate into the alley as identified above. This restrictor plate may be installed at the parking lot curb, or at a header curb between the landscaping and alley.

In summary, the first flush and landscaping strip along the southern property line will provide the required storage to reduce the peak runoff rate to below the 2.75 cfs per acre.

The project site is located just west of downtown Albuquerque between 8th and 9th Streets SW and between Silver Avenue SW and the alley tot eh south. The site is currently utilized as a parking lot. A small portion of the site (approx 15%) is exposed soil with the remainder being asphalt pavement.

of relying on being able to depress the landscaping.

of this water would be contained within the gravel section as described above, but surface ponding would be required during the 100 year 6 hour storm event..

and will provide the required 1540 cubic feet total (989 First Flush retention and 551 cubic feet detention in parking area) of storm water management volume available on site.



REVISIONS

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STERLING | DOWN

**№** 

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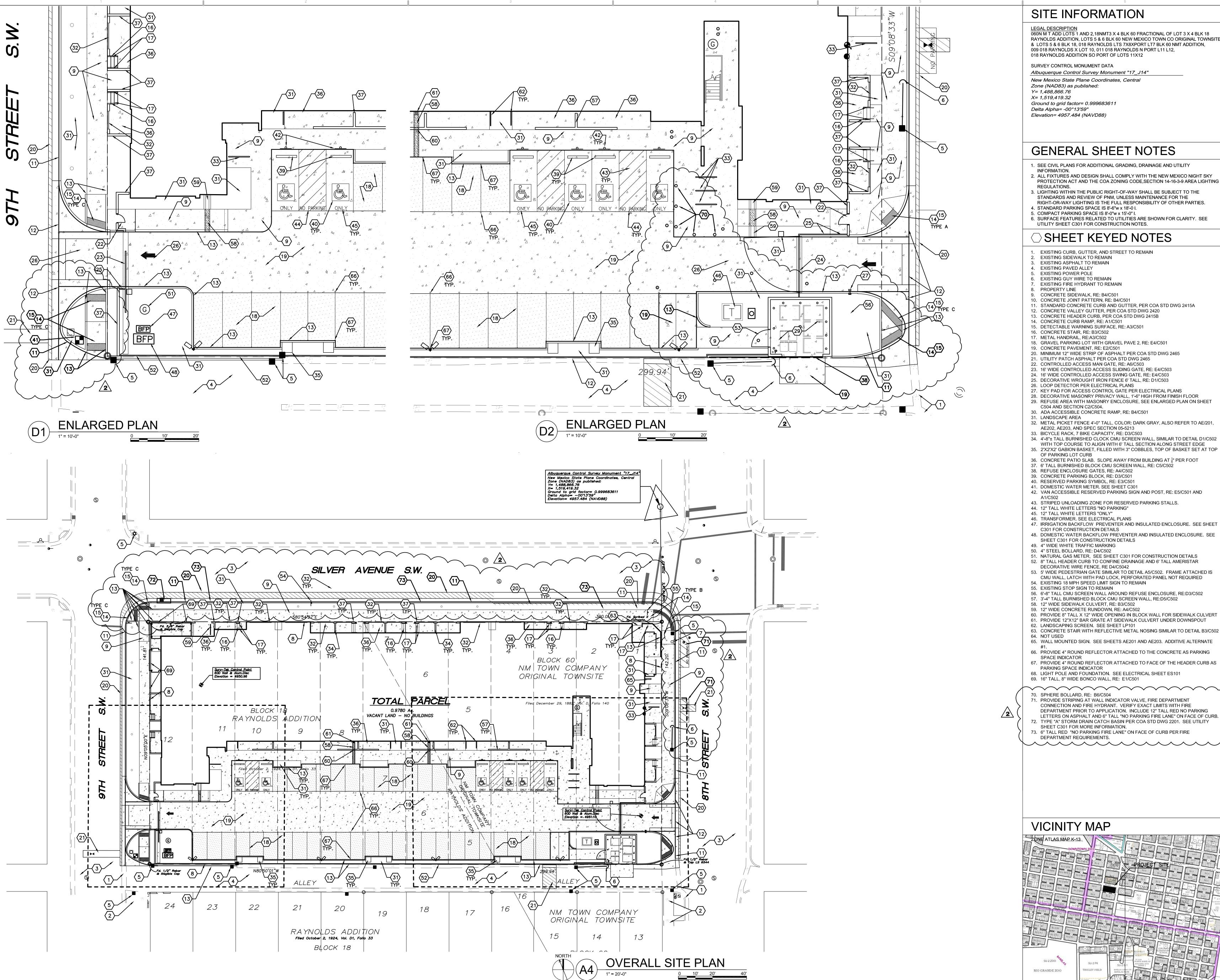
DRAWN BY DAA REVIEWED BY DAA DATE Nov. 18, 2016 PROJECT NO. 16-0078 DRAWING NAME

> CONCEPTUAL DRAINAGE

PLAN

SHEET NO.

1"=20'



#### SITE INFORMATION

<u>LEGAL DESCRIPTION</u>
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SURVEY CONTROL MONUMENT DATA

Albuquerque Control Survey Monument "17\_J14" New Mexico State Plane Coordinates, Central

Zone (NAD83) as published: Y= 1,488,866.76 X= 1,519,419.32 Ground to grid factor= 0.999683611

#### **GENERAL SHEET NOTES**

1. SEE CIVIL PLANS FOR ADDITIONAL GRADING, DRAINAGE AND UTILITY 2. ALL FIXTURES AND DESIGN SHALL COMPLY WITH THE NEW MEXICO NIGHT SKY

PROTECTION ACT AND THE COA ZONING CODE, SECTION 14-16-3-9 AREA LIGHTING

3. LIGHTING WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE SUBJECT TO THE STANDARDS AND REVIEW OF PNM, UNLESS MAINTENANCE FOR THE RIGHT-OR-WAY LIGHTING IS THE FULL RESPONSIBILITY OF OTHER PARTIES.

4. STANDARD PARKING SPACE IS 8'-6"w x 18'-0 I.

COMPACT PARKING SPACE IS 8'-0"w x 15'-0" I.
 SURFACE FEATURES RELATED TO UTILITIES ARE SHOWN FOR CLARITY. SEE UTILITY SHEET C301 FOR CONSTRUCTION NOTES.

# SHEET KEYED NOTES

EXISTING CURB, GUTTER, AND STREET TO REMAIN EXISTING SIDEWALK TO REMAIN

. EXISTING ASPHALT TO REMAIN 4. EXISTING PAVED ALLEY

5. EXISTING POWER POLE 6. EXISTING GUY WIRE TO REMAIN

EXISTING FIRE HYDRANT TO REMAIN 8. PROPERTY LINE

10. CONCRETE JOINT PATTERN, RE: B4/C501 11. STANDARD CONCRETE CURB AND GUTTER, PER COA STD DWG 2415A

12. CONCRETE VALLEY GUTTER, PER COA STD DWG 2420 13. CONCRETE HEADER CURB, PER COA STD DWG 2415B 14. CONCRETE CURB RAMP, RE: A1/C501

15. DETECTABLE WARNING SURFACE, RE: A3/C501 16. CONCRETE STAIR, RE: B3/C502

17. METAL HANDRAIL, RE:A3/C502 18. GRAVEL PARKING LOT WITH GRAVEL PAVE 2, RE: E4/C501

19. CONCRETE PAVEMENT, RE: E2/C501 20. MINIMUM 12" WIDE STRIP OF ASPHALT PER COA STD DWG 2465

21. UTILITY PATCH ASPHALT PER COA STD DWG 2465 22. CONTROLLED ACCESS MAN GATE, RE: A6/C503

23. 16' WIDE CONTROLLED ACCESS SLIDING GATE, RE: E4/C503 24. 16' WIDE CONTROLLED ACCESS SWING GATE, RE: E4/C503

25. DECORATIVE WROUGHT IRON FENCE 6' TALL, RE: D1/C503 26. LOOP DETECTOR PER ELECTRICAL PLANS 27. KEY PAD FOR ACCESS CONTROL GATE PER ELECTRICAL PLANS

28. DECORATIVE MASONRY PRIVACY WALL, 1'-6" HIGH FROM FINISH FLOOR 29. REFUSE AREA WITH MASONRY ENCLOSURE, SEE ENLARGED PLAN ON SHEET C504 AND SECTION C2/C504.

30. ADA ACCESSIBLE CONCRETE RAMP, RE: B4/C501 31. LANDSCAPE AREA

32. METAL PICKET FENCE 4'-0" TALL, COLOR: DARK GRAY, ALSO REFER TO AE/201, AE202, AE203, AND SPEC SECTION 05-5213

33. BICYCLE RACK, 7 BIKE CAPACITY, RE: D3/C503 34. 4'-8"± TALL BURNISHED CLOCK CMU SCREEN WALL, SIMILAR TO DETAIL D1/C502

WITH TOP COURSE TO ALIGN WITH 6' TALL SECTION ALONG STREET EDGE 35. 2'X2'X2' GABION BASKET, FILLED WITH 3" COBBLES, TOP OF BASKET SET AT TOP OF PARKING LOT CURB

36. CONCRETE PATIO SLAB. SLOPE AWAY FROM BUILDING AT  $\frac{1}{4}$ " PER FOOT 37. 6' TALL BURNISHED BLOCK CMU SCREEN WALL, RE: C5/C502

38. REFUSE ENCLOSURE GATES, RE: A4/C502 39. CONCRETE PARKING BLOCK, RE: D3/C501

40. RESERVED PARKING SYMBOL, RE: E3/C501 41. DOMESTIC WATER METER. SEE SHEET C301

42. VAN ACCESSIBLE RESERVED PARKING SIGN AND POST, RE: E5/C501 AND

43. STRIPED UNLOADING ZONE FOR RESERVED PARKING STALLS. 44. 12" TALL WHITE LETTERS "NO PARKING"

45. 12" TALL WHITE LETTERS "ONLY" 46. TRANSFORMER. SEE ELECTRICAL PLANS

C301 FOR CONSTRUCTION DETAILS 48. DOMESTIC WATER BACKFLOW PREVENTER AND INSULATED ENCLOSURE. SEE

SHEET C301 FOR CONSTRUCTION DETAILS 49. 4" WIDE WHITE TRAFFIC MARKING

50. 4" STEEL BOLLARD, RE: D4/C502

51. NATURAL GAS METER, SEE SHEET C301 FOR CONSTRUCTION DETAILS 52. 8" TALL HEADER CURB TO CONFINE DRAINAGE AND 6' TALL AMERISTAR

DECORATIVE WIRE FENCE, RE D4/C5042 53. 5' WIDE PEDESTRIAN GATE SIMILAR TO DETAIL A5/C502. FRAME ATTACHED IS

CMU WALL, LATCH WITH PAD LOCK, PERFORATED PANEL NOT REQUIRED 54. EXISTING 18 MPH SPEED LIMIT SIGN TO REMAIN

55. EXISTING STOP SIGN TO REMAIN

56. 6'-8" TALL CMU SCREEN WALL AROUND REFUSE ENCLOSURE, RE:D3/C502 57. 3'-4" TALL BURNISHED BLOCK CMU SCREEN WALL, RE:D5/C502

58. 12" WIDE SIDEWALK CULVERT, RE: B3/C502 59. 12" WIDE CONCRETE RUNDOWN, RE: A4/C502

60. PROVIDE 8" TALL X 12" WIDE OPENING IN BLOCK WALL FOR SIDEWALK CULVERT 61. PROVIDE 12"X12" BAR GRATE AT SIDEWALK CULVERT UNDER DOWNSPOUT

62. LANDSCAPING SCREEN. SEE SHEET LP101 63. CONCRETE STAIR WITH REFLECTIVE METAL NOSING SIMILAR TO DETAIL B3/C502 64. NOT USED

65. WALL MOUNTED SIGN. SEE SHEETS AE201 AND AE203. ADDITIVE ALTERNATE 66. PROVIDE 4" ROUND REFLECTOR ATTACHED TO THE CONCRETE AS PARKING

SPACE INDICATOR

67. PROVIDE 4" ROUND REFLECTOR ATTACHED TO FACE OF THE HEADER CURB AS PARKING SPACE INDICATOR

68. LIGHT POLE AND FOUNDATION. SEE ELECTRICAL SHEET ES101

69. 16" TALL, 8" WIDE BONCO WALL, RE: E1/C501 

70. SPHERE BOLLARD, RE: B6/C504 71. PROVIDE STRIPING AT WALL INDICATOR VALVE, FIRE DEPARTMENT CONNECTION AND FIRE HYDRANT. VERIFY EXACT LIMITS WITH FIRE DEPARTMENT PRIOR TO APPLICATION. INCLUDE 12" TALL RED NO PARKING LETTERS ON ASPHALT AND 6" TALL "NO PARKING FIRE LANE" ON FACE OF CURB. 72. TYPE "A" STORM DRAIN CATCH BASIN PER COA STD DWG 2201. SEE UTILITY

SHEET C301 FOR MORE INFORMATION. 73. 6" TALL RED "NO PARKING FIRE LANE" ON FACE OF CURB PER FIRE DEPARTMENT REQUIREMENTS.

### **VICINITY MAP**



# PERICH SABATINI

ARCHITECTURE / DESIGN / INSPIRATION

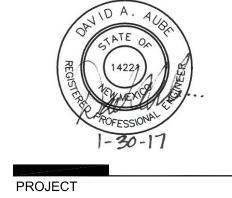
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ARCHITECT

ENGINEER



100% CONSTRUCTION DOCUMENTS

<u>/2</u>\ Addendum #2 2-1-17

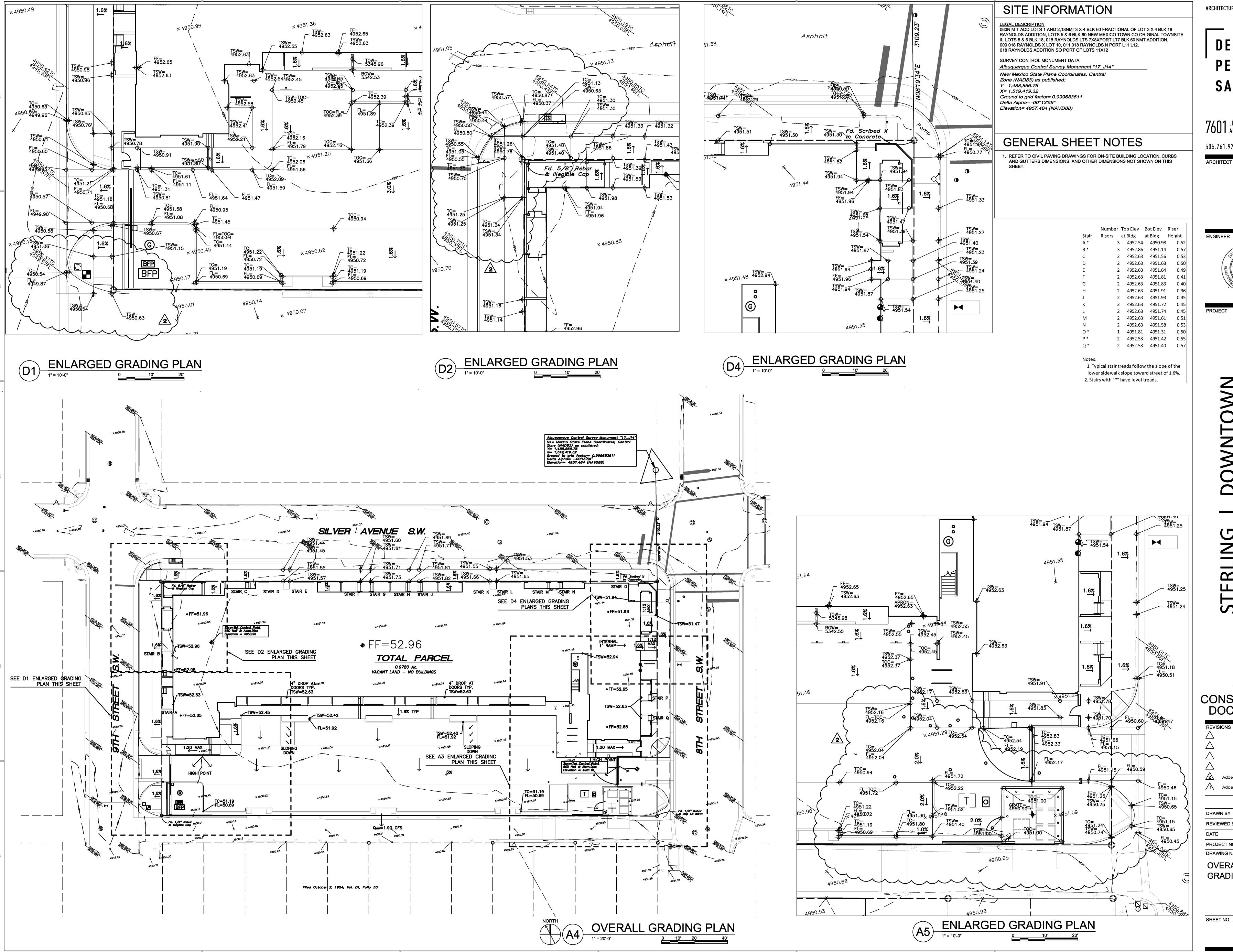
REVISIONS

/1\ Addendum #1 12-12-16

DRAWN BY DAA REVIEWED BY November 18, 2016 PROJECT NO. DRAWING NAME

**OVERALL** SITE PLAN

SHEET NO.



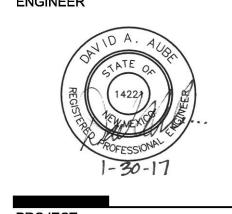
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**REVISIONS** 

Addendum #1 12-12-16

DRAWN BY DAA **REVIEWED BY** November 18, 2016 PROJECT NO. DRAWING NAME

**OVERALL GRADING PLAN**