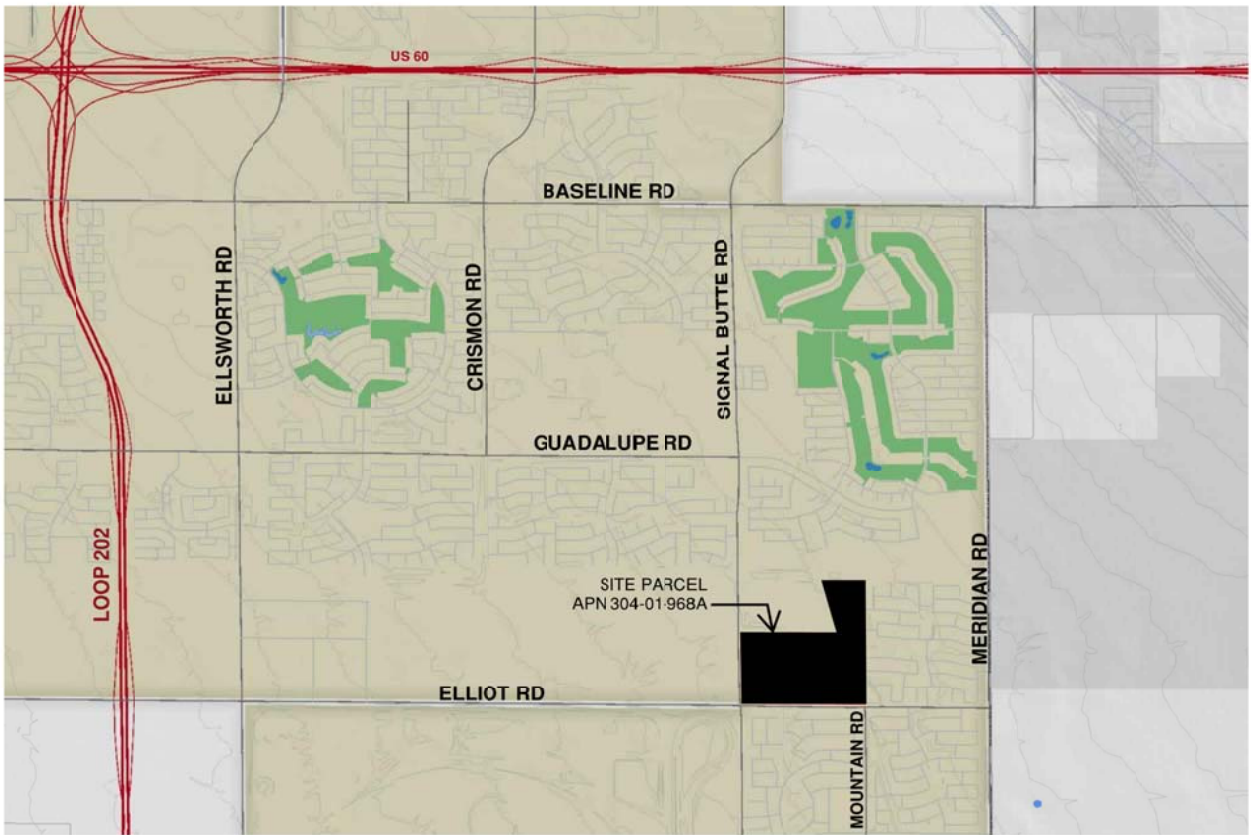
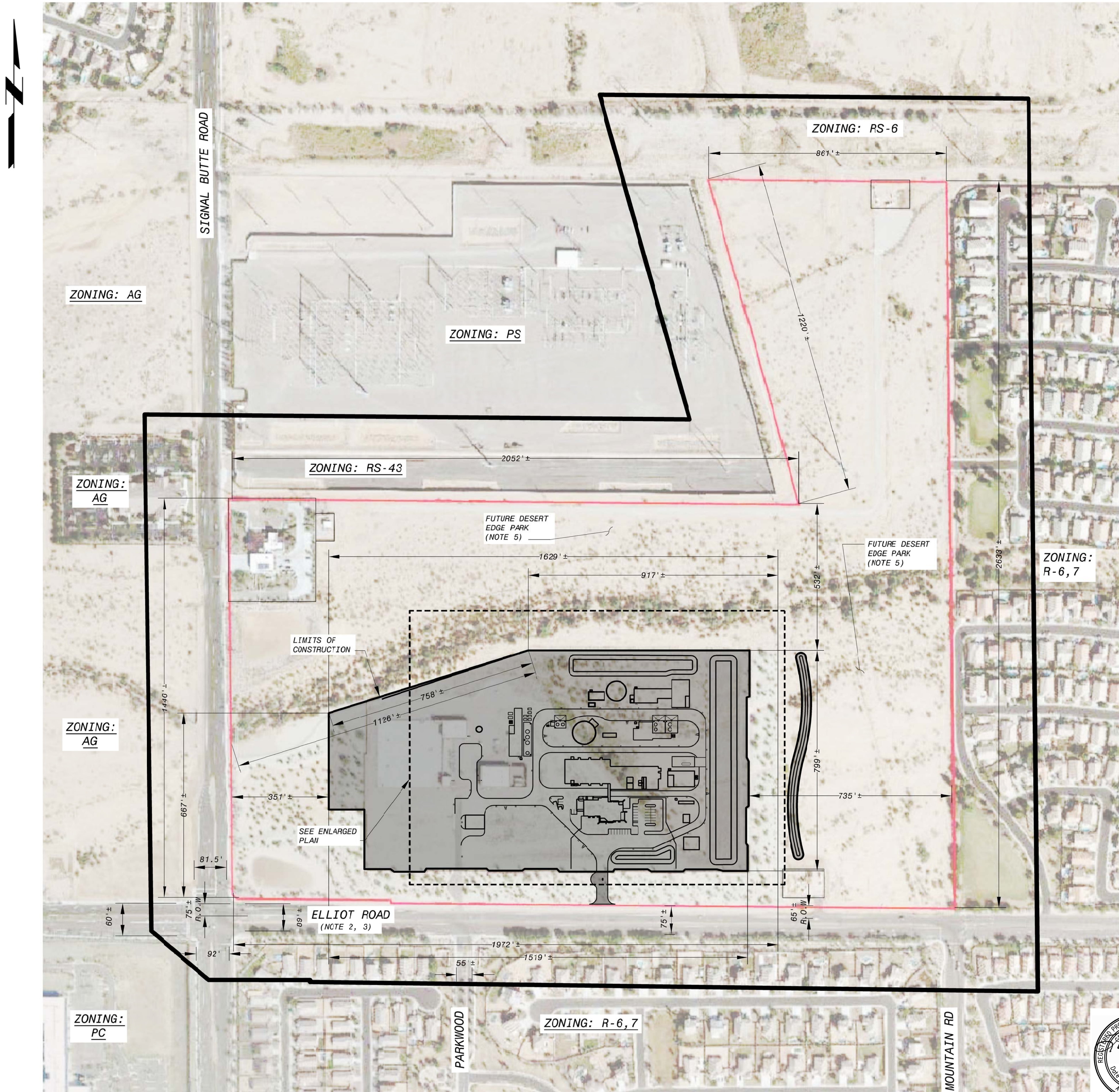




VICINITY MAP  
NO SCALE

|                                        |                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------|
| <u>SITE ADDRESS</u>                    | <u>PROPERTY OWNER</u>                                                       |
| 10950 E. ELLIOT ROAD<br>MESA, AZ 85212 | CITY OF MESA                                                                |
| <u>ZONING</u>                          | <u>ACREAGE</u>                                                              |
| EXISTING: PS<br>PROPOSED: PS           | GROSS: 102.5 ACRES<br>NET: 94.8 ACRES<br>LIMITS OF CONSTRUCTION: 23.5 ACRES |
| <u>RELATED CASE NUMBERS</u>            | <u>REQUEST SUMMARY</u>                                                      |
| DR05-045<br>Z05-062                    | SITE PLAN REVIEW                                                            |

- NOTES:
1. SITE AND SET BACK DIMENSIONS ARE APPROXIMATE AND HAVE BEEN NOT BEEN SURVEYED.
  2. FOR SIGNAL BUTTE ROAD IMPROVEMENTS SEE CITY OF MESA PROJECT NO. 09-003-001. ROADWAY IMPROVEMENTS INCLUDE IMPROVEMENTS TO ELLIOT ROAD AT THE INTERSECTION WITH SIGNAL BUTTE ROAD.
  3. ROADWAY IMPROVEMENTS, NEW RIGHT OF WAY DEDICATIONS, AND TRAFFIC VISIBILITY TRIANGLES FOR ELLIOT ROAD ARE NOT INCLUDED IN THIS PROJECT AND MAY BE INCLUDED IN A FUTURE CITY OF MESA PROJECT AS INDICATED IN THE MAG REGIONAL TRANSPORTATION PLAN.
  4. 1/2 STREET IMPROVEMENTS INCLUDING THE NEW PRIMARY ENTRANCE TO THE SIGNAL BUTTE WATER TREATMENT PLANT WILL BE INCLUDED IN CITY OF MESA PROJECT NO. 01-645-002.
  5. EXISTING TOPOGRAPHY EAST AND NORTH OF THE PROJECT SITE TO BE REVISED AS PART OF THE NEW LANDSCAPING AND RECREATIONAL AREAS OF THE NEW DESERT EDGE PARK THAT IS NOT INCLUDED IN THIS PROJECT.

— CITY OF MESA PARCEL  
— 300 FT DISTANCE FROM PROPERTY LINE

DRAFT PLANNING & ZONING



EXPIRES 6/30/2015

LINE IS 1 INCH  
(IF NOT 1", SCALE  
ACCORDINGLY)

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CITY OF MESA

SIGNAL BUTTE WATER TREATMENT PLANT  
MESA, ARIZONA

OVERALL SITE PLAN

APRIL 2015

FIGURE: 1

COM PN: C01600  
B&V PN: 183056 (PW)

OWNER: CITY OF MESA  
APPLICANT: CHRISTOPHER SCOTT, P.E. (CITY OF MESA ENGINEERING DEPARTMENT)  
REGISTRANT: LISA JACKSON, P.E. (BLACK & VEATCH)

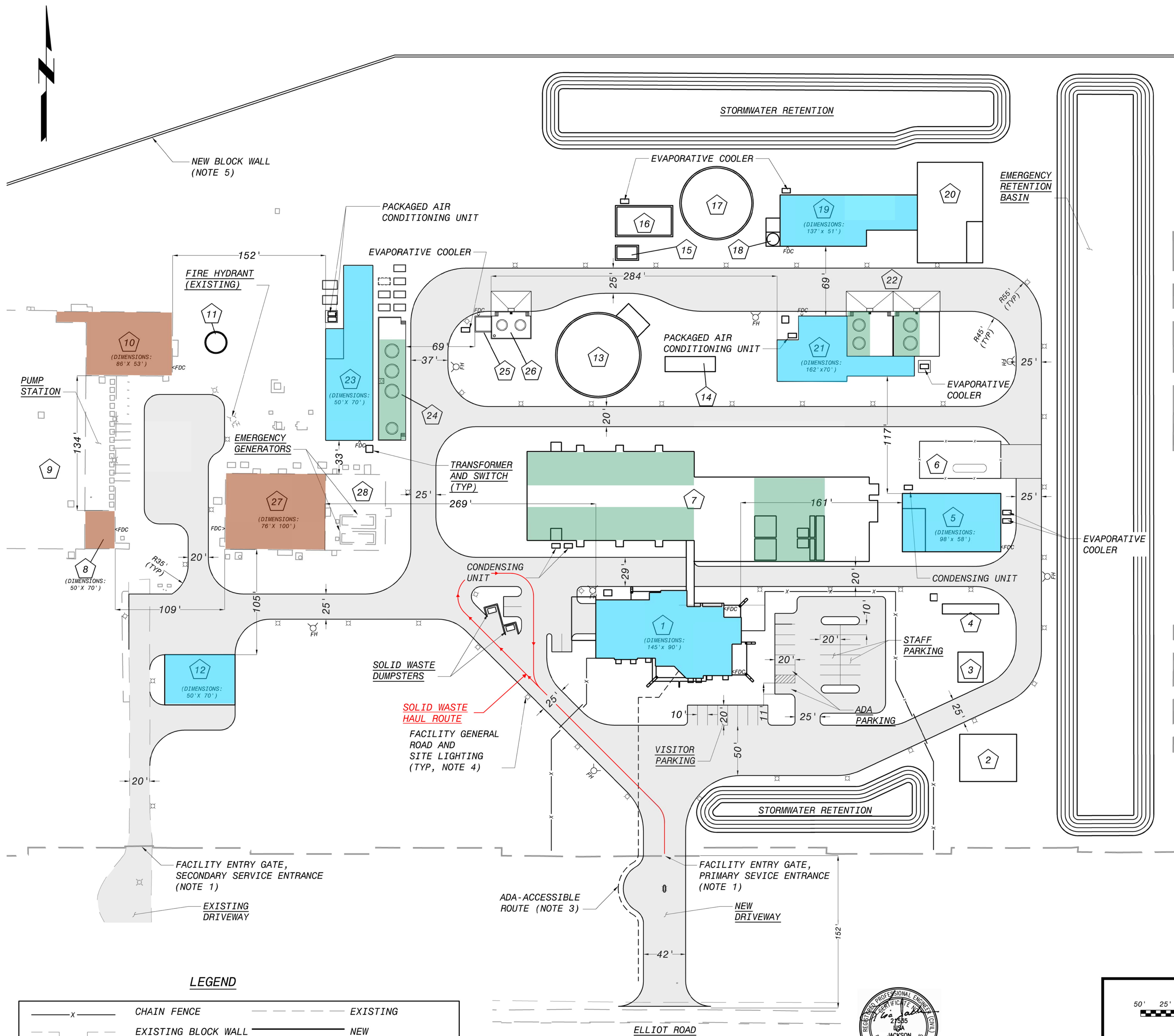


TABLE 1 - FACILITY HEIGHTS AND AREAS

| No. | Facility                                   | New | Height Above Grade, FT. | Footprint, SQ.FT. | Squr Footag SQ.FT. |
|-----|--------------------------------------------|-----|-------------------------|-------------------|--------------------|
| 1   | Operations Building                        | X   | 30                      | 9243              | ####               |
|     | - First Floor and Maintenance              |     |                         | 9243              | 9243               |
|     | - Second Floor                             |     |                         | 2644              | 2644               |
| 2   | Raw Water Control Area                     | X   | 5                       | 2664              | -                  |
| 3   | Carbon Dioxide Injection                   | X   | 14.8                    | 750               | -                  |
| 4   | Carbon Dioxide Tank Storage                | X   | 12                      | 560               | -                  |
| 5   | Ozone Generation Building                  | X   | 23.3                    | 5684              | -                  |
| 6   | Liquefied Oxygen Storage                   | X   | 6                       | 2997              | -                  |
| 7   | Treatment Complex                          | X   | 42.8                    | 29972             | -                  |
| 8   | Reservoir Influent Building                |     | 18.7                    | 1152              | -                  |
| 9   | Reservoir                                  |     | 0.5                     | 56051             | -                  |
| 10  | Reservoir Effluent Building                |     | 18.7                    | 5795              | -                  |
| 11  | Falcon Field Feed Tank                     | X   | 25                      | 381               | -                  |
| 12  | Well Storage Building                      | X   | 14.3                    | 3500              | -                  |
| 13  | Recovered Water Basin                      | X   | 6.8                     | 6154              | -                  |
| 14  | Washwater Treatment Unit                   | X   | 38.5                    | 750               | -                  |
| 15  | Sludge Pump Station                        | X   | 10                      | 345               | -                  |
| 16  | Sludge Flow Splitter                       | X   | 15                      | 1767              | -                  |
| 17  | Gravily Thickener Basin                    | X   | 3.5                     | 4186              | -                  |
| 18  | Thickened Sludge Tank                      | X   | 22                      | 196               | -                  |
| 19  | Dewatering Building                        | X   | 21.5                    | 6157              | -                  |
| 20  | Sludge Holding Bed                         | X   | 4                       | 6500              | -                  |
| 21  | Chemical Building                          | X   | 23.3                    | 7568              | -                  |
| 22  | Chemical Containment Area/Tanks            | X   | 27                      | 4118              | -                  |
| 23  | Sodium Hypochlorite Generation Building    | X   | 20.3                    | 6528              | -                  |
| 24  | Sodium Hypochlorite Containment Area/Tanks | X   | 30                      | 2591              | -                  |
| 25  | Fluoride Building                          | X   | 12                      | 289               | -                  |
| 26  | Fluoride Containment Area/Tanks            | X   | 22.5                    | 950               | -                  |
| 27  | Electrical Building                        |     | 19.4                    | 7551              | -                  |
| 28  | Standby Power Generator Area               |     | 14.9                    | 4516              | -                  |

TABLE 2 - SETBACK DISTANCES

| No. | Facility                                   | Distance to Property Line, FT |       |      |      |
|-----|--------------------------------------------|-------------------------------|-------|------|------|
|     |                                            | North                         | South | East | West |
| 1   | Operations Building                        | 1072                          | 296   | 1195 | 1271 |
|     | - First Floor and Maintenance              |                               |       |      |      |
|     | - Second Floor                             |                               |       |      |      |
| 2   | Raw Water Control Area                     | 1212                          | 197   | 922  | 1631 |
| 3   | Carbon Dioxide Injection                   | 1072                          | 296   | 954  | 1631 |
| 4   | Carbon Dioxide Tank Storage                | 1083                          | 364   | 938  | 1616 |
| 5   | Ozone Generation Building                  | 973                           | 425   | 935  | 1577 |
| 6   | Liquefied Oxygen Storage                   | 921                           | 498   | 935  | 1595 |
| 7   | Treatment Complex                          | 934                           | 413   | 1066 | 1205 |
| 8   | Reservoir Influent Building                | 996                           | 418   | 1816 | 764  |
| 9   | Reservoir                                  | 797                           | 417   | 1845 | 528  |
| 10  | Reservoir Effluent Building                | 797                           | 591   | 1758 | 768  |
| 11  | Falcon Field Feed Tank                     | 818                           | 612   | 1703 | 896  |
| 12  | Well Storage Building                      | 1140                          | 263   | 1699 | 841  |
| 13  | Recovered Water Basin                      | 796                           | 573   | 1291 | 1236 |
| 14  | Washwater Treatment Unit                   | 839                           | 600   | 1218 | 1344 |
| 15  | Sludge Flow Splitter                       | 729                           | 710   | 1293 | 1296 |
| 16  | Sludge Pump Station                        | 689                           | 734   | 1258 | 1296 |
| 17  | Gravily Thickener Basin                    | 650                           | 732   | 1178 | 1361 |
| 18  | Thickened Sludge Tank                      | 715                           | 726   | 1152 | 1446 |
| 19  | Dewatering Building                        | 677                           | 727   | 1015 | 1460 |
| 20  | Sludge Holding Bed                         | 644                           | 712   | 950  | 1570 |
| 21  | Chemical Building                          | 826                           | 583   | 958  | 1472 |
| 22  | Chemical Containment Area/Tanks            | 773                           | 614   | 997  | 1477 |
| 23  | Sodium Hypochlorite Generation Building    | 751                           | 528   | 1558 | 1006 |
| 24  | Sodium Hypochlorite Containment Area/Tanks | 802                           | 528   | 1525 | 1058 |
| 25  | Fluoride Building                          | 802                           | 637   | 1440 | 1155 |
| 26  | Fluoride Containment Area/Tanks            | 796                           | 631   | 1400 | 1171 |
| 27  | Electrical Building                        | 958                           | 420   | 1607 | 904  |
| 28  | Standby Power Generator Area               | 958                           | 420   | 1547 | 1004 |

TABLE 3 - PARKING

|                          | REQUIRED | PROVIDED |
|--------------------------|----------|----------|
| STANDARD (10 FT X 20 FT) | 20       | 25       |
| ADA-COMPLIANT            | 1        | 2        |

NOTES:

- FOR NEW ENTRANCE GATE AND SIGNAGE SEE FIGURE "XX" "ENTRANCE SIGNAGE".
- EXISTING GATE AND SIGNAGE CAN BE FOUND IN THE INCLUDED REFERENCE SET FOR CITY OF MESA (COM) PROJECT 01-600-01, SHEETS C-04 THROUGH C-06.
- SIDEWALK SHALL HAVE MINIMUM WIDTH OF 5 FT WITH DOOR LOCATED AT THE FACILITY WALL FOR ENTRANCE TO THE SITE. SIDEWALK ALONG ELLIOT ROAD TO BE INCLUDED WITH IMPROVEMENTS TO ELLIOT ROAD THAT ARE SEPARATE FROM THIS PROJECT.
- GENERAL SITE ROADWAY LIGHTING WITHIN THE NEW WATER TREATMENT PLANT ARE 250W HIGH PRESSURE SODIUM LUMINAIRES ON 20 FT POLES. SEE REPRESENTATIVE LUMINAIRE AND POLE CUT SHEETS INCLUDED WITH THE SUBMITTAL PACKAGE.
- NEW BLOCK WALL ON NORTH SIDE OF WATER TREATMENT PLANT TO MATCH EXISTING SITE BLOCK WALL. FOR EXISTING BLOCK WALL PLANS, SECTIONS, AND DETAILS SEE SHEETS L20 - L23 IN THE REFERENCE SET FOR COM PROJECT 01-600-01.

PLANNING & ZONING

CITY OF MESA

SIGNAL BUTTE WATER TREATMENT PLANT  
MESA, ARIZONA

ENLARGED SITE PLAN

APRIL 2015

FIGURE: 2

COM PN: C01600  
B&V PN: 183056 (PW)

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OWNER: CITY OF MESA  
APPLICANT: CHRISTOPHER SCOTT, P.E. (CITY OF MESA ENGINEERING DEPARTMENT)  
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