





|   |   |   |  |  |      |      |             |          |
|---|---|---|--|--|------|------|-------------|----------|
|  <div>Engineering and Environmental Consultants, Inc.<br/>7740 N. 16th Street, Suite 135   Phoenix, Arizona 85020<br/>Tel 602.248.7702   Fax 602.248.7851</div> | civil engineering • land development<br>environmental services • water<br>septic • flood control and drainage<br>transportation | SHEET TITLE<br><br>PROJECT TITLE<br><br><b>CROSS SECTIONS</b> | CITY OF SCOTTSDALE FIRE STATION<br>CAVE CREEK ROAD, SCOTTSDALE, AZ | LOCATED IN A PORTION OF NORTHEAST QUARTER OF SECTION 28<br>T 6 N, R 5 E, G4SRM, MARICOPA COUNTY, SCOTTSDALE, ARIZONA | REV. | DATE | DESCRIPTION | CK<br>BY |
|   |   |   |  |  | △    | △    | △           | △        |
|    | DESIGN BY:  | JAR   |  |  |      |      |             |          |
|   | DRAWN BY:   | JAR   |  |  |      |      |             |          |
| CHK'D BY:   | JAR   |   |  |  |      |      |             |          |
| DATE:   | MARCH 2018  |   |  |  |      |      |             |          |
| SCALE:  | -   |   |  |  |      |      |             |          |
| EEC NO  | 16535   |   |  |  |      |      |             |          |
| DRAWING NO  |   |   |  |  |      |      |             |          |
| 1 OF 1  |   |   |  |  |      |      |             |          |



CALCULATIONS INDICATE THE REQUIRED  
N.A.O.S. FOR THIS LOT = 51,574 SF. SEE  
DETAILED CALCULATIONS BELOW.

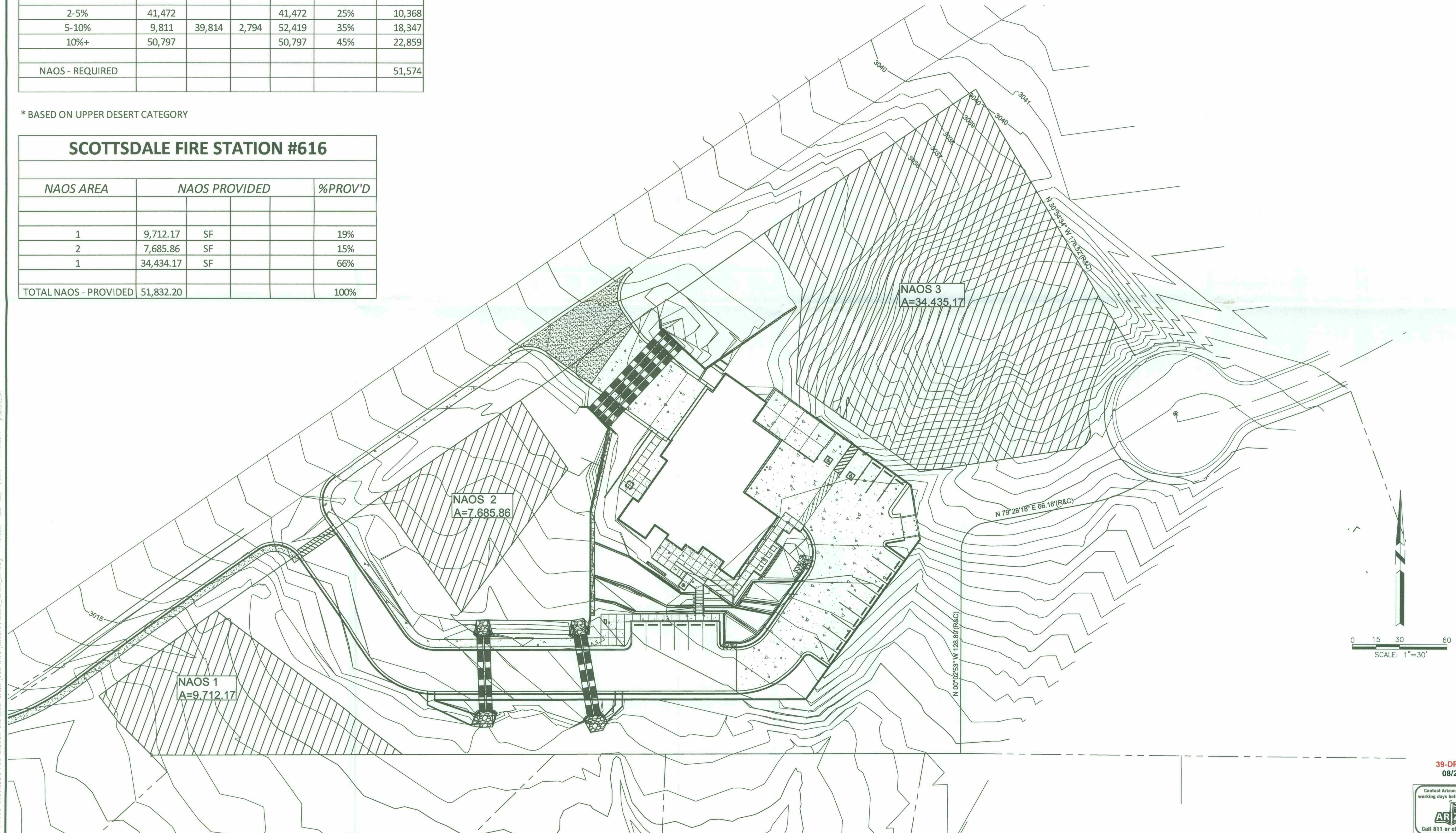
# NAOS - SCOTTSDALE FIRE STATION #616


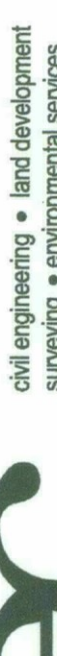
10905 E. LOVING TREE LANE; SCOTTSDALE, ARIZONA 85262  
A PORTION OF THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 6 NORTH, RANGE 5 EAST OF  
THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, SCOTTSDALE, ARIZONA

| SCOTTSDALE FIRE STATION #616 |           |        |       |        |         |        |
|------------------------------|-----------|--------|-------|--------|---------|--------|
|                              |           |        |       |        |         |        |
| SLOPE CATEGORY               | AREA (sf) |        |       |        | *% NAOS | NAOS   |
|                              |           |        |       | TOTAL  |         |        |
| 2-5%                         | 41,472    |        |       | 41,472 | 25%     | 10,368 |
| 5-10%                        | 9,811     | 39,814 | 2,794 | 52,419 | 35%     | 18,347 |
| 10%+                         | 50,797    |        |       | 50,797 | 45%     | 22,859 |
| NAOS - REQUIRED              |           |        |       |        |         | 51,574 |

\* BASED ON UPPER DESERT CATEGORY

| SCOTTSDALE FIRE STATION #616 |               |    |  |  |         |
|------------------------------|---------------|----|--|--|---------|
|                              |               |    |  |  |         |
| NAOS AREA                    | NAOS PROVIDED |    |  |  | %PROV'D |
|                              |               |    |  |  |         |
|                              |               |    |  |  |         |
| 1                            | 9,712.17      | SF |  |  | 19%     |
| 2                            | 7,685.86      | SF |  |  | 15%     |
| 1                            | 34,434.17     | SF |  |  | 66%     |
|                              |               |    |  |  |         |
| TOTAL NAOS - PROVIDED        | 51,832.20     |    |  |  | 100%    |



|  |   |   |           |   |  |
|--|---|---|-----------|---|--|
| <div><div><p><b>Engineering and Environmental Consultants, Inc.</b><br/>7740 N. 16th Street, Suite 135   Phoenix, Arizona 85020<br/>Tel 602.248.7702   Fax 602.248.7851</p></div><div></div></div> | <p><b>PROJECT TITLE</b></p> <p><b>NAOS PLAN</b></p> | <p><b>CITY OF SCOTTSDALE FIRE STATION</b><br/><b>CAVE CREEK ROAD, SCOTTSDALE, AZ</b></p> <p>LOCATED IN A PORTION OF NORTHEAST QUARTER OF SECTION 28<br/>T 6 N, R 5 E, G&amp;SRM, MARICOPA COUNTY, SCOTTSDALE, ARIZONA</p> | CK. BY    |   |  |
|  |   |   | REV. DATE | Δ |  |
|  |   |   |           | Δ |  |
|  |   |   |           | Δ |  |
|  |   |   |           | Δ |  |
|  |   |   |           | Δ |  |
|  |   |   |           | Δ |  |
|  |   |   |           | Δ |  |
|  |   |   |           | Δ |  |
|  |   |   |           | Δ |  |
| DESIGN BY:   | JAR   |   |           |   |  |
| DRAWN BY:  | JAR   |   |           |   |  |
| CHECK'D BY:  | JMG   |   |           |   |  |
| DATE:  | MARCH 2018  |   |           |   |  |
| SCALE:   | .   |   |           |   |  |
| SEC NO   | 16535   |   |           |   |  |
| DRAWING NO   |   |   |           |   |  |
| 1 of 1   |   |   |           |   |  |



NOTE:  
A SLOPE ANALYSIS WAS PREPARED FOR THIS  
SITE.

THE NAOS REQUIREMENT FOR THIS SITE, LOT  
2A, HAS BEEN PROVIDED PER THE  
CALCULATION WORKSHEET BELOW.

CALCULATIONS INDICATE THE REQUIRED  
N.A.O.S. FOR THIS LOT = 51,574 SF. SEE  
DETAILED CALCULATIONS BELOW.

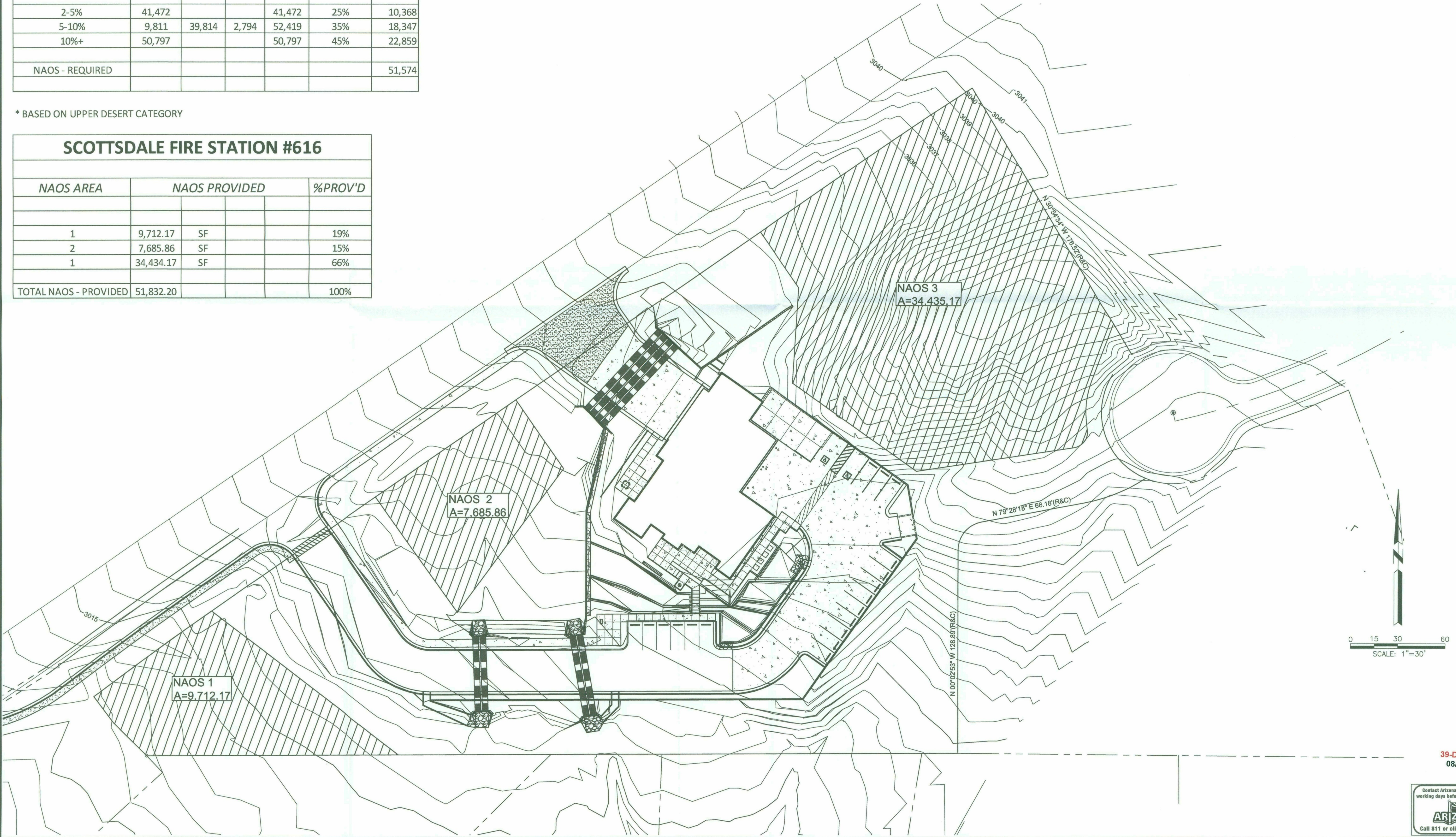
| SCOTTSDALE FIRE STATION #616 |           |        |        |         |        |
|------------------------------|-----------|--------|--------|---------|--------|
| SLOPE CATEGORY               | AREA (sf) |        |        | *% NAOS | NAOS   |
|                              |           |        | TOTAL  |         |        |
| 2-5%                         | 41,472    |        | 41,472 | 25%     | 10,368 |
| 5-10%                        | 9,811     | 39,814 | 52,419 | 35%     | 18,347 |
| 10%+                         | 50,797    |        | 50,797 | 45%     | 22,859 |
| NAOS - REQUIRED              |           |        |        |         | 51,574 |

\* BASED ON UPPER DESERT CATEGORY

| SCOTTSDALE FIRE STATION #616 |               |    |  |         |  |
|------------------------------|---------------|----|--|---------|--|
| NAOS AREA                    | NAOS PROVIDED |    |  | %PROV'D |  |
|                              |               |    |  |         |  |
| 1                            | 9,712.17      | SF |  | 19%     |  |
| 2                            | 7,685.86      | SF |  | 15%     |  |
| 1                            | 34,434.17     | SF |  | 66%     |  |
| TOTAL NAOS - PROVIDED        | 51,832.20     |    |  | 100%    |  |

# NAOS - SCOTTSDALE FIRE STATION #616

10905 E. LOVING TREE LANE; SCOTTSDALE, ARIZONA 85262  
A PORTION OF THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 6 NORTH, RANGE 5 EAST OF  
THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, SCOTTSDALE, ARIZONA



|     |          |             |        |
|-----|----------|-------------|--------|
| REV | DATE     | DESCRIPTION | CHK BY |
| 1   | 08/29/18 | 39-DR-2018  | JAR    |
| 2   | 08/29/18 | 08/29/18    | JAR    |
| 3   | 08/29/18 | 08/29/18    | JMG    |
| 4   | 08/29/18 | 08/29/18    | JMG    |
| 5   | 08/29/18 | 08/29/18    | JMG    |
| 6   | 08/29/18 | 08/29/18    | JMG    |
| 7   | 08/29/18 | 08/29/18    | JMG    |
| 8   | 08/29/18 | 08/29/18    | JMG    |
| 9   | 08/29/18 | 08/29/18    | JMG    |
| 10  | 08/29/18 | 08/29/18    | JMG    |

CITY OF SCOTTSDALE FIRE STATION  
CAVE CREEK ROAD, SCOTTSDALE, AZ

LOCATED IN A PORTION OF NORTHEAST QUARTER OF SECTION 28  
T 6 N, R 5 E, G&SRM, MARICOPA COUNTY, SCOTTSDALE, ARIZONA

NAOS PLAN

31682  
JAMES M.  
GRIFFIN  
Professional Engineer  
ARIZONA, U.S.A. (11/03)  
Expires: 9/30/18

DESIGN BY: JAR  
DRAWN BY: JAR  
CHK'D BY: JMG  
DATE: MARCH 2018  
SCALE:  
EEC NO 16535  
DRAWING NO

39-DR-2018  
08/29/18

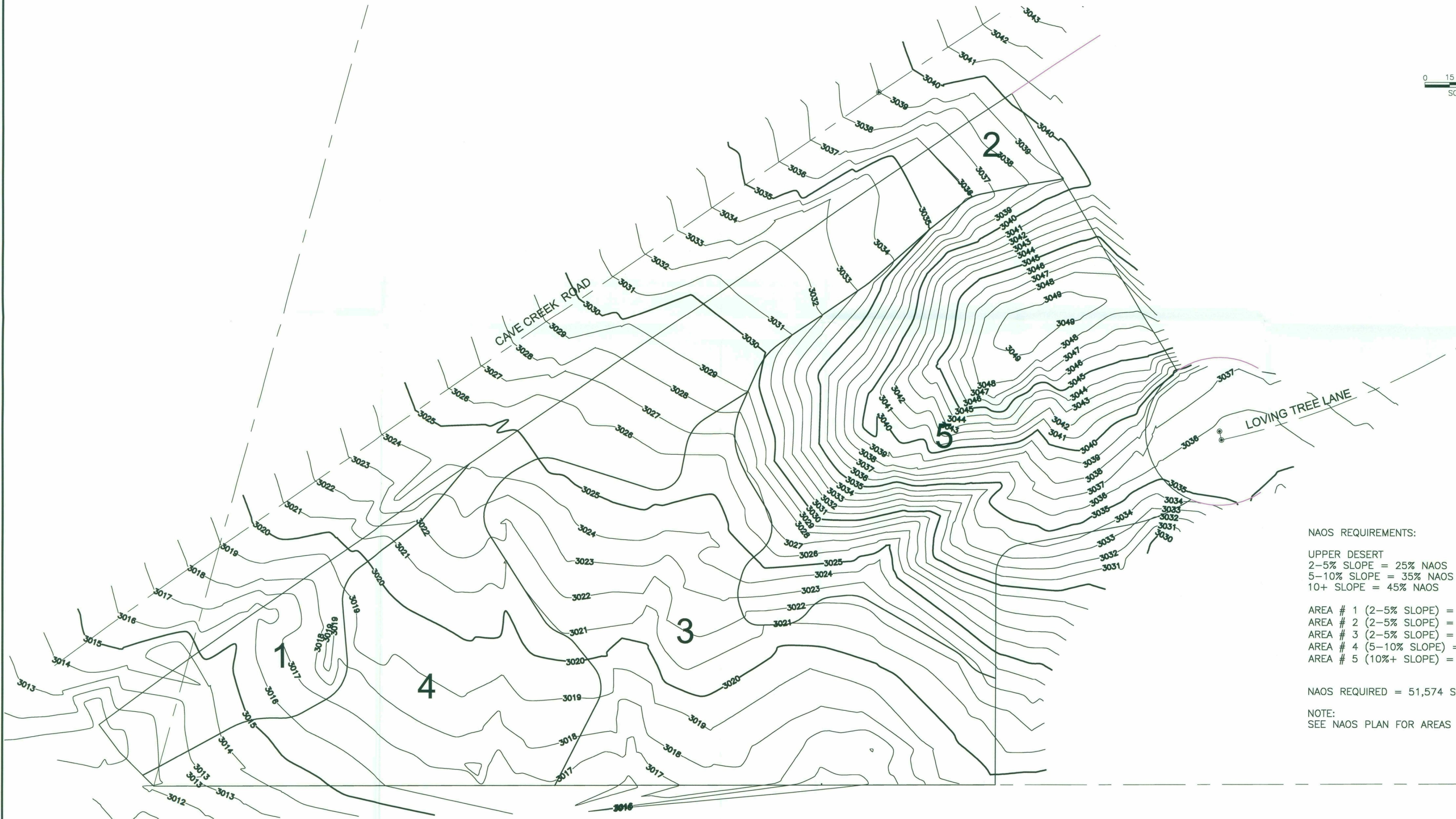
Arizona811  
Call 811 or click Arizona811.com

1 of 1



# SLOPE ANALYSIS - SCOTTSDALE FIRE STATION #616

10905 E. LOVING TREE LANE; SCOTTSDALE, ARIZONA 85262  
A PORTION OF THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 6 NORTH, RANGE 5 EAST OF  
THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, SCOTTSDALE, ARIZONA



## NAOS REQUIREMENTS:

UPPER DESERT  
2-5% SLOPE = 25% NAOS  
5-10% SLOPE = 35% NAOS  
10+ SLOPE = 45% NAOS

AREA # 1 (2-5% SLOPE) =  
AREA # 2 (2-5% SLOPE) =  
AREA # 3 (2-5% SLOPE) =  
AREA # 4 (5-10% SLOPE) =  
AREA # 5 (10%+ SLOPE) =

NAOS REQUIRED = 51,574 SF

NOTE:  
SEE NAOS PLAN FOR AREAS

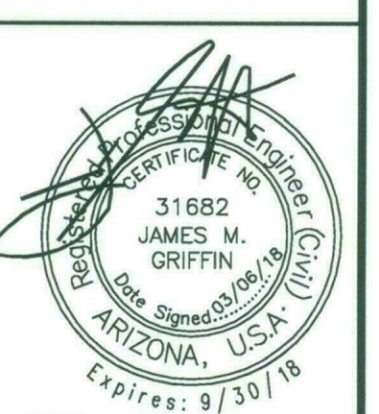
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|------|----------|-------------------|-----|-----|
| 1    | 03/29/18 | ISSUED FOR PERMIT | JAR | JAR |
| 2    | 03/29/18 | REVISED           | JAR | JAR |
| 3    | 03/29/18 | REVISED           | JAR | JAR |
| 4    | 03/29/18 | REVISED           | JAR | JAR |
| 5    | 03/29/18 | REVISED           | JAR | JAR |
| 6    | 03/29/18 | REVISED           | JAR | JAR |
| 7    | 03/29/18 | REVISED           | JAR | JAR |
| 8    | 03/29/18 | REVISED           | JAR | JAR |
| 9    | 03/29/18 | REVISED           | JAR | JAR |
| 10   | 03/29/18 | REVISED           | JAR | JAR |

CITY OF SCOTTSDALE FIRE STATION  
CAVE CREEK ROAD, SCOTTSDALE, AZ  
LOCATED IN A PORTION OF NORTHEAST QUARTER OF SECTION 28  
T 6 N, R 5 E, G4SRM, MARICOPA COUNTY, SCOTTSDALE, ARIZONA

SHEET TITLE  
PROJECT TITLE  
SLOPE ANALYSIS

civil engineering • land development  
surveying • environmental services  
site planning • erosion control and drainage  
transportation

**EEC**  
Engineering and Environmental Consultants, Inc.  
7740 N. 16th Street, Suite 135 | Phoenix, Arizona 85020  
Tel 602.248.7702 | Fax 602.248.7851



|            |            |
|------------|------------|
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| DRAWN BY:  | JAR        |
| CHK'D BY:  | JMG        |
| DATE:      | MARCH 2018 |
| SCALE:     |            |
| EEC NO     | 16535      |
| DRAWING NO |            |

39-DR-2018  
08/29/18





PRELIMINARY NOT FOR  
CONSTRUCTION

PROJECT NO:  
16.11.00  
DATE:  
February 9, 2018

| REVISION SCHEDULE |      |             |           |
|-------------------|------|-------------|-----------|
| #                 | DATE | DESCRIPTION | ISSUED TO |
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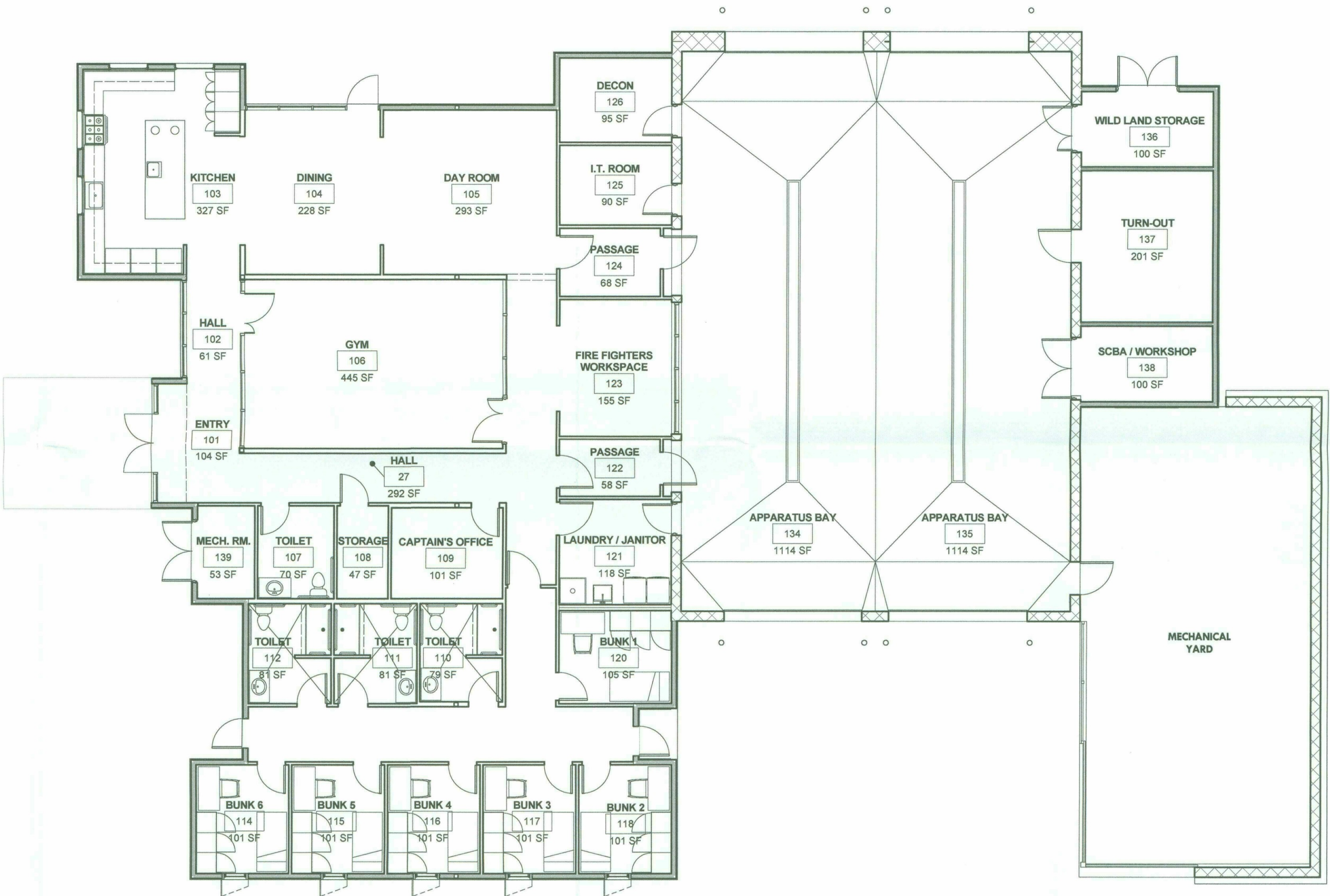
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Floor Plan  
Worksheet

**A11**



**Floor Plan**  
1/8" = 1'-0" 0 8 24'



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architects  
planners

2740 s hardy road ste 2  
tempe arizona 85282  
480.659.3332

City of Scottsdale  
Fire Station #616

PRELIMINARY NOT FOR  
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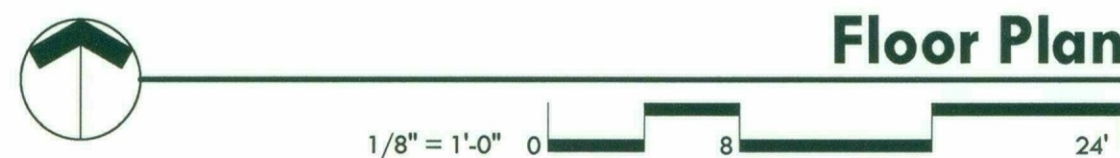
PROJECT NO:  
16.11.00

DATE:  
February 9, 2018

REVISION SCHEDULE:  
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|                     |                     |
|---------------------|---------------------|
| Station Services    | 2,081 sq.ft         |
| Living              | 962 sq.ft.          |
| Circulation         | 353 sq.ft.          |
| Bay Area/ Functions | 2,682 sq.ft.        |
| <b>Total Net:</b>   | <b>6,085 sq.ft.</b> |



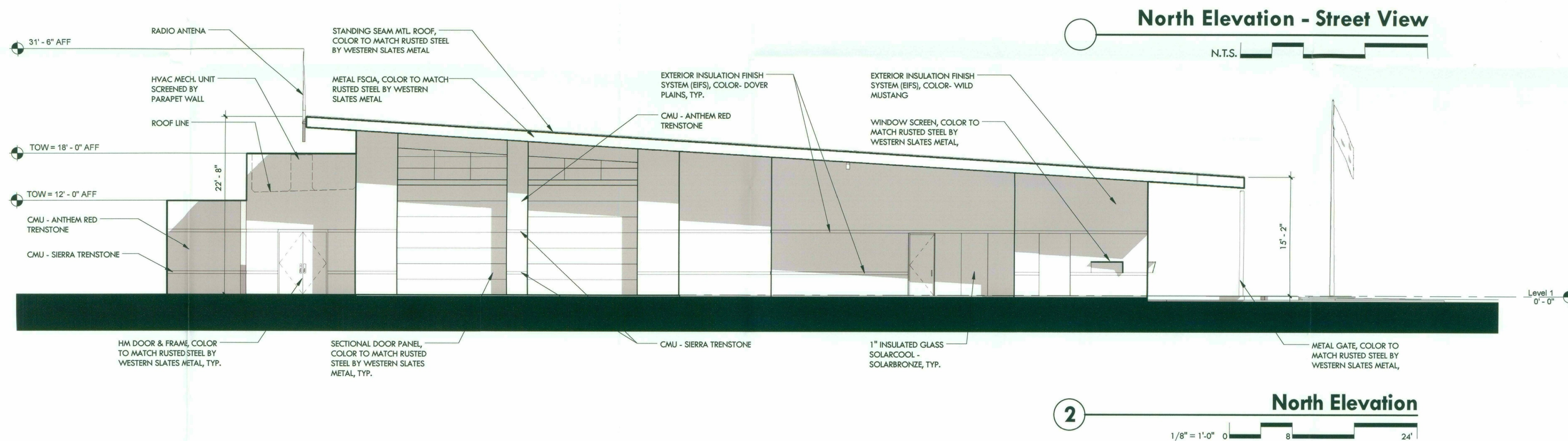
- Station Services
- Living
- Circulation
- Bay Area/ Functions

39-DR-2018  
08/29/18

Floor Plan  
Worksheet

A11





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tempe arizona 85282  
480.659.3332

**City of Scottsdale**  
Fire Station #616

PRELIMINARY NOT FOR  
CONSTRUCTION

PROJECT NO: 16.11.00

DATE: February 9, 2018

REVISION SCHEDULE:

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Exterior Elevations

**A6.1**

39-DR-2018  
08/29/18





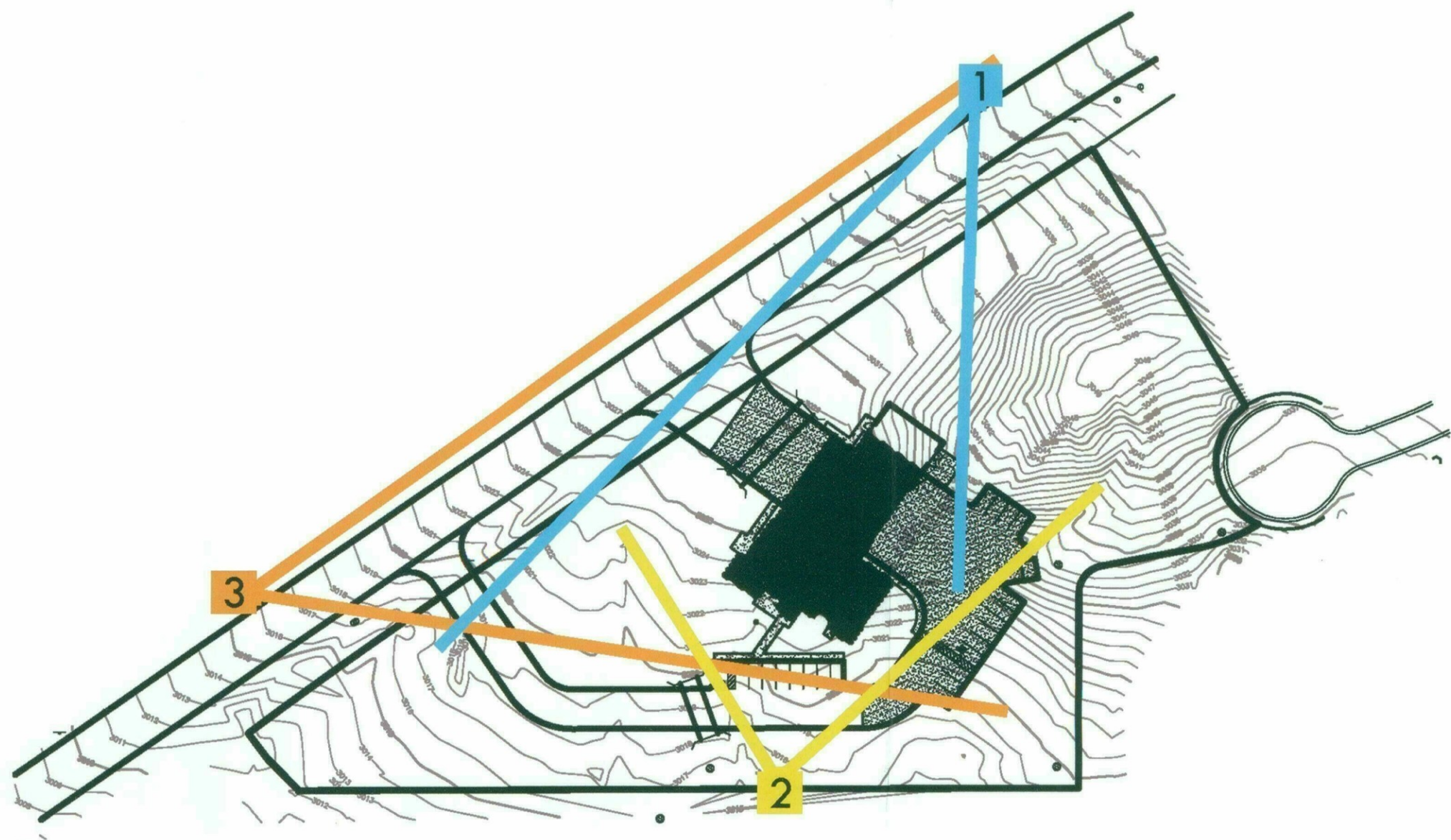
VIEW 1



VIEW 2



VIEW 3



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**City of Scottsdale**  
 Fire Station #616  
 DRB Submittal

**PRELIMINARY**  
 NOT FOR CONSTRUCTION

PROJECT NO:  
16.11.00

DATE:  
FEBRUARY 09, 2018

| REVISION SCHEDULE |      |             |           |
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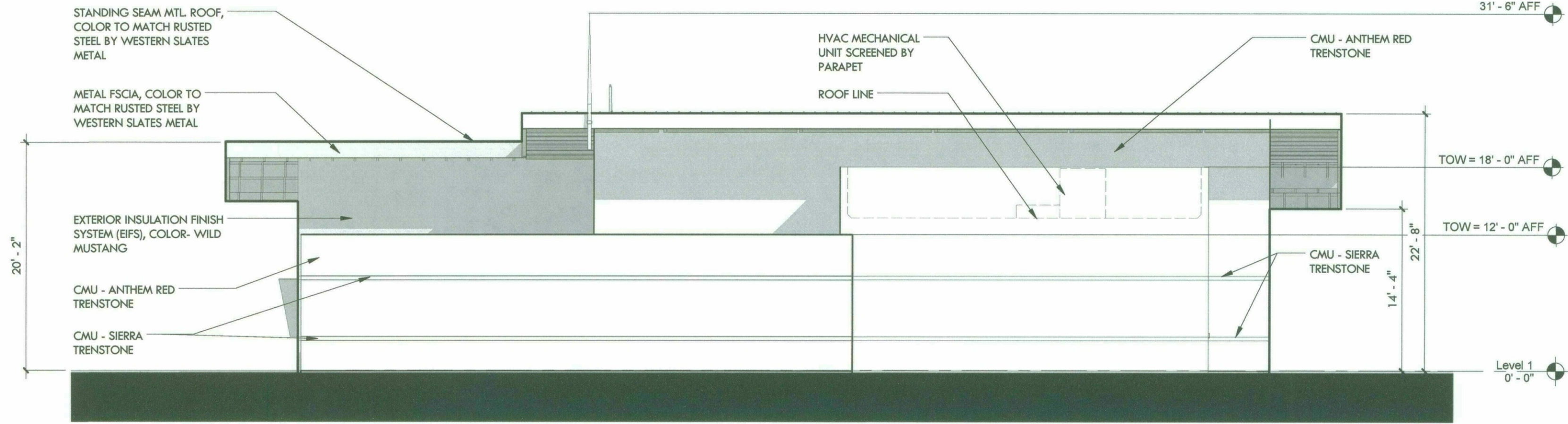
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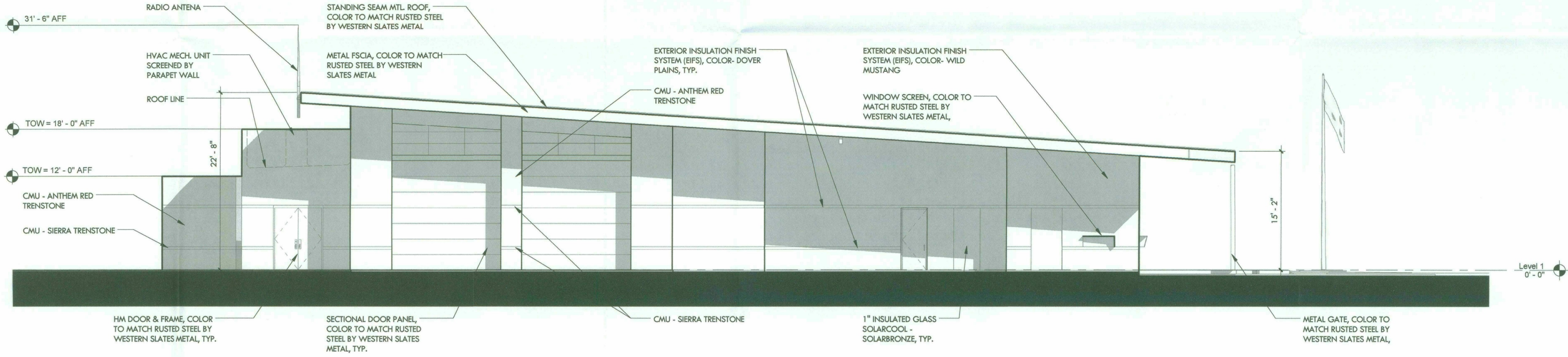


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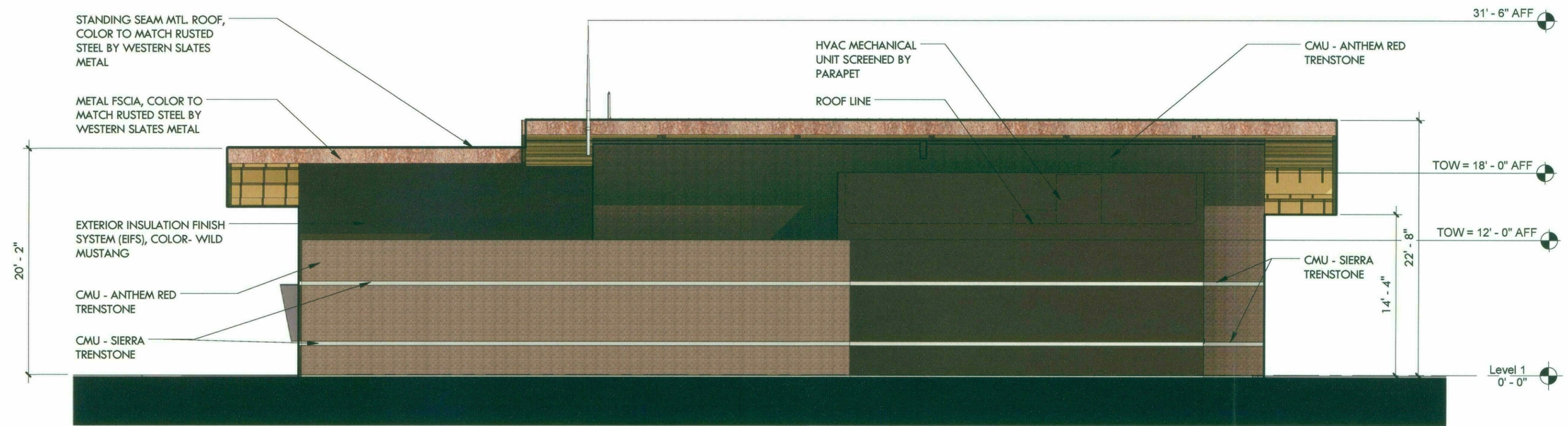
**1 East Elevation**  
1/8" = 1'-0" 0 8 24'



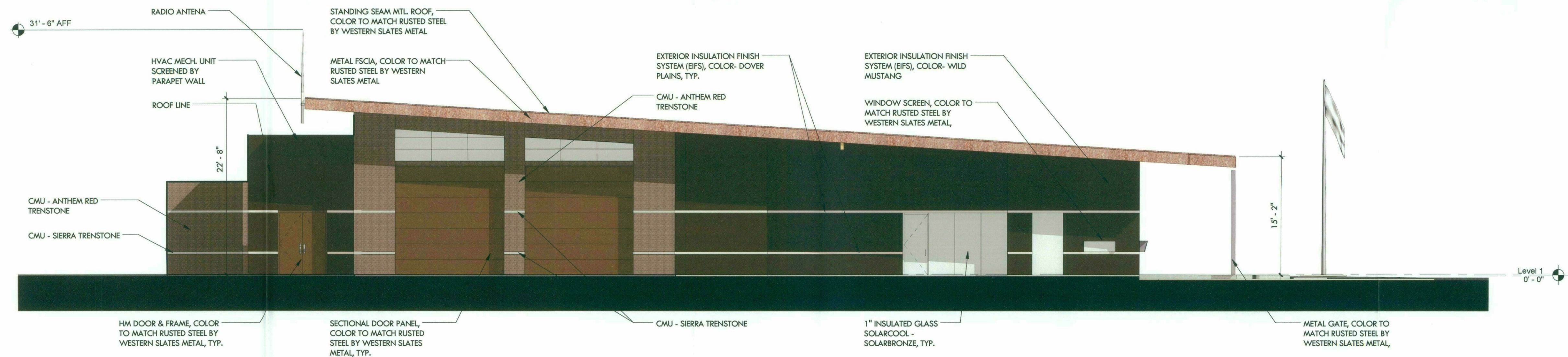
**2 North Elevation**  
1/8" = 1'-0" 0 8 24'



|   |      |             |           |
|---|------|-------------|-----------|
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| DATE:<br>February 9, 2018   |      |             |           |
| REVISION SCHEDULE:  |      |             |           |
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**1 East Elevation**  
1/8" = 1'-0" 0 8 24'



**2 North Elevation**  
1/8" = 1'-0" 0 8 24'



Site Data

CURRENT ZONING: R1-43 ESL

USE: SINGLE-FAMILY RESIDENTIAL

GROSS AREA PER SURVEY: 144,688 S.F. OR 3.32 AC.

MAXIMUM LOT COVERAGE:  
ACTUAL: 23.80%

DEVELOPMENT STANDARDS:  
MINIMUM FRONT YARD 60 FT  
MINIMUM REAR YARD 60 FT  
MINIMUM SIDE YARD 30 FT EACH

BUILDING HEIGHT RESTRICTIONS:  
MAXIMUM BUILDING HEIGHT = 24FT  
ACTUAL BUILDING HEIGHT = 22FT 3 IN.

PARKING CALCULATIONS:  
CITY OF SCOTTSDALE ZONING CODE ARTICLE IX  
SECTION 9.1000, TABLE 3  
GENERAL OFFICES = 1 SPACE/ 300 S.F.  
ADMIN AREA: 4,205 S.F.  
REQUIRED - 14 PARKING SPACES  
PROVIDED - 20 PARKING SPACES  
18 REGULAR SPACES + 2 A.D.A. SPACES

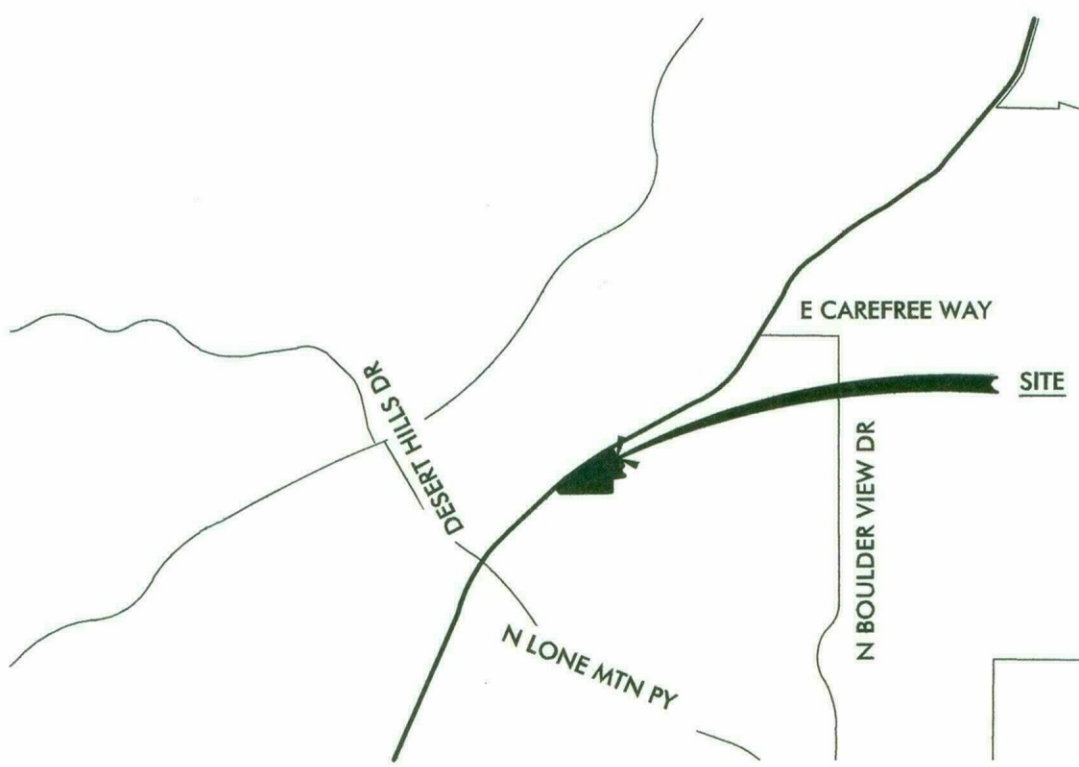
GROSS LOT AREA: 144,688 S.F.

GROSS FLOOR AREA: 7,030.00 S.F.

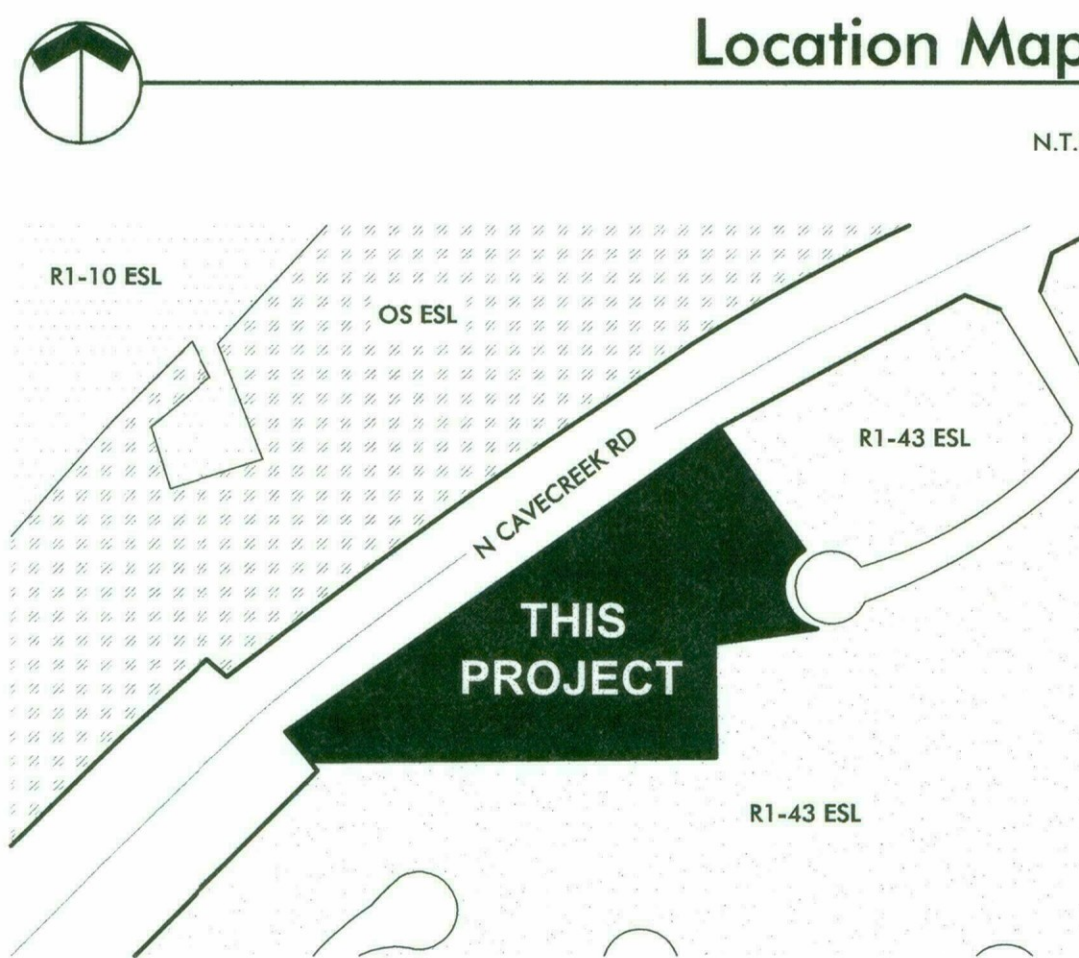
LOT COVERAGE: 23.80%  
SITE TOTAL - 144,688 S.F.  
PAVED AREA - 34,447.99 S.F. (BUILDING, ROADS, SIDEWALKS)

FLOOR AREA RATIO: 0.048  
7,030 SF / 144,688 SF = 0.048  
LIMITED TO THIRTY-FIVE HUNDREDTHS (0.35) OF THE NET LOT AREA.

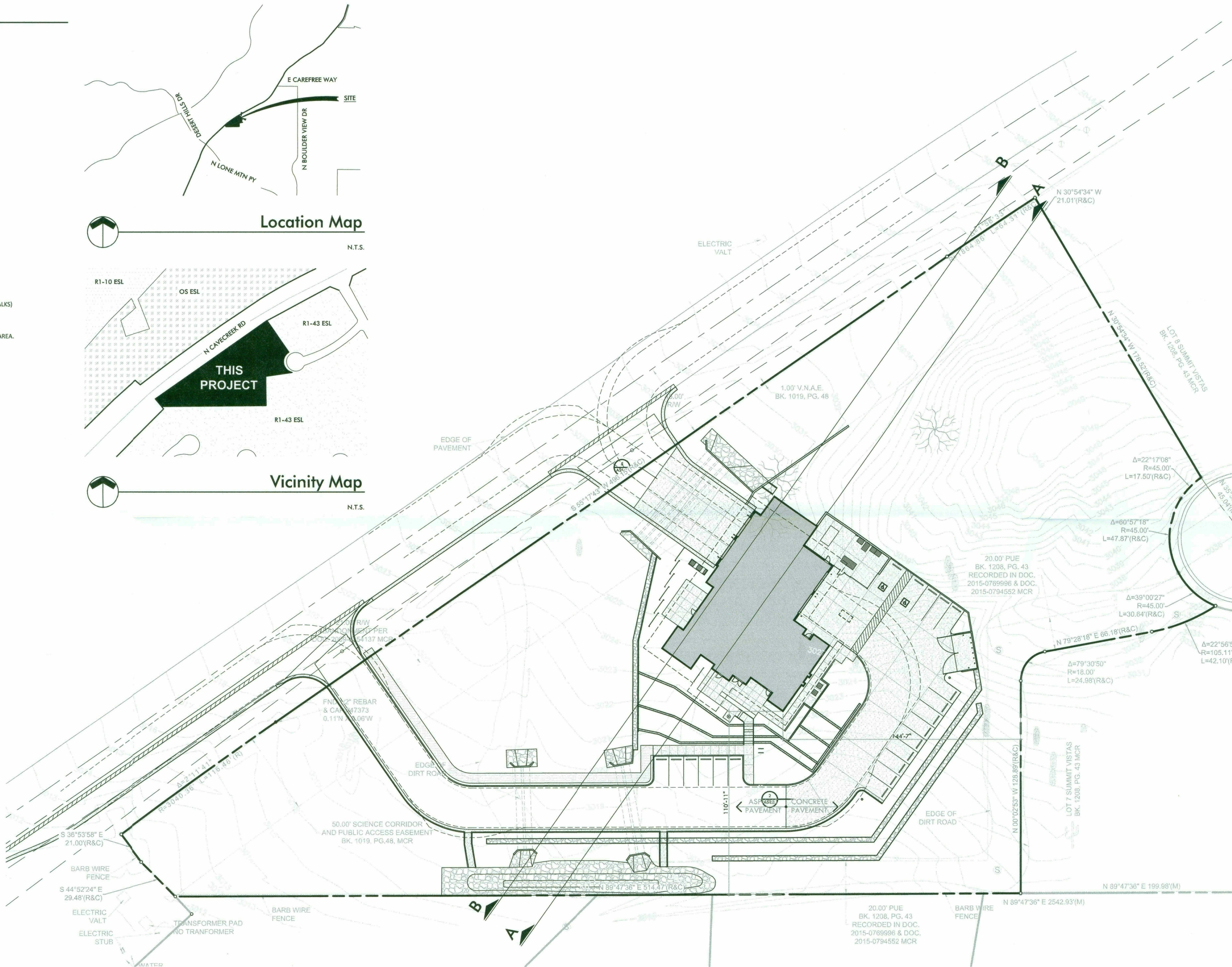
BICYCLE PARKING: 4 BICYCLE SPACES PROVIDED  
REQUIRED 2 PER 10 VEHICULAR PARKING SPACES  
TOTAL VEHICULAR SPACES = 20  
REQUIRED BICYCLE SPACES = 4



Location Map



Vicinity Map



Architectural Site Plan

1" = 20'-0" 0 20' 60'

**Breckenridge**  
architects  
planners

2470 s hardy road ste 2  
tempe arizona 85282  
480.659.3332

**City of Scottsdale**  
Fire Station #616

**PRELIMINARY**  
NOT FOR CONSTRUCTION

PROJECT NO:  
16.11.00

DATE:  
SEPTEMBER 2018

| REVISION SCHEDULE |      |             |           |
|-------------------|------|-------------|-----------|
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Architectural  
Site Plan

**AS11**



**Breckenridge**  
architects  
planners  
2470 s hardy road ste 2  
tempe arizona 85282  
480.659.3332

**City of Scottsdale**  
Fire Station #616

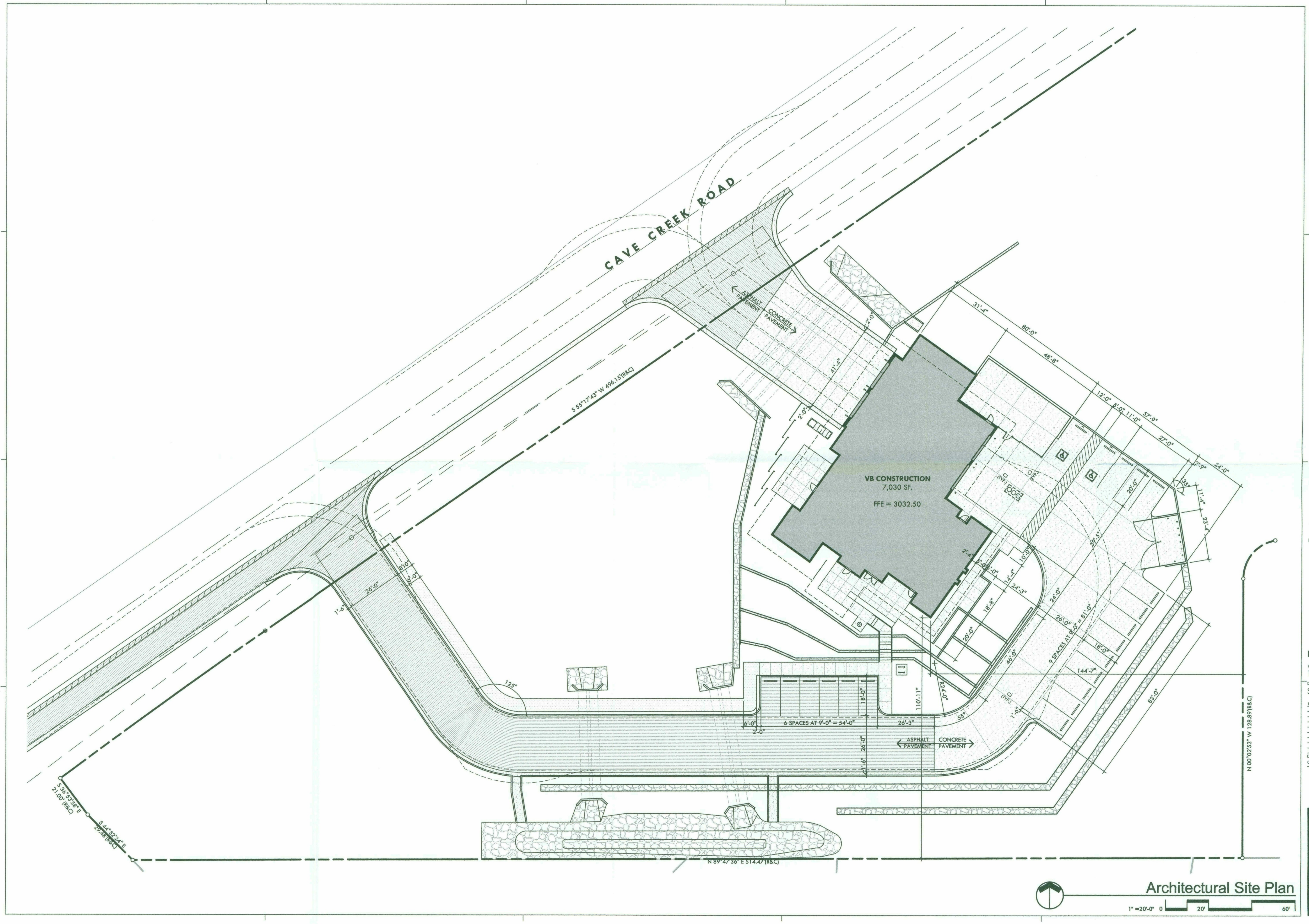
**PRELIMINARY**  
NOT FOR CONSTRUCTION

PROJECT NO:  
16.11.00  
DATE:  
SEPTEMBER 2018  
REVISION SCHEDULE:  
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Architectural  
Site Plan

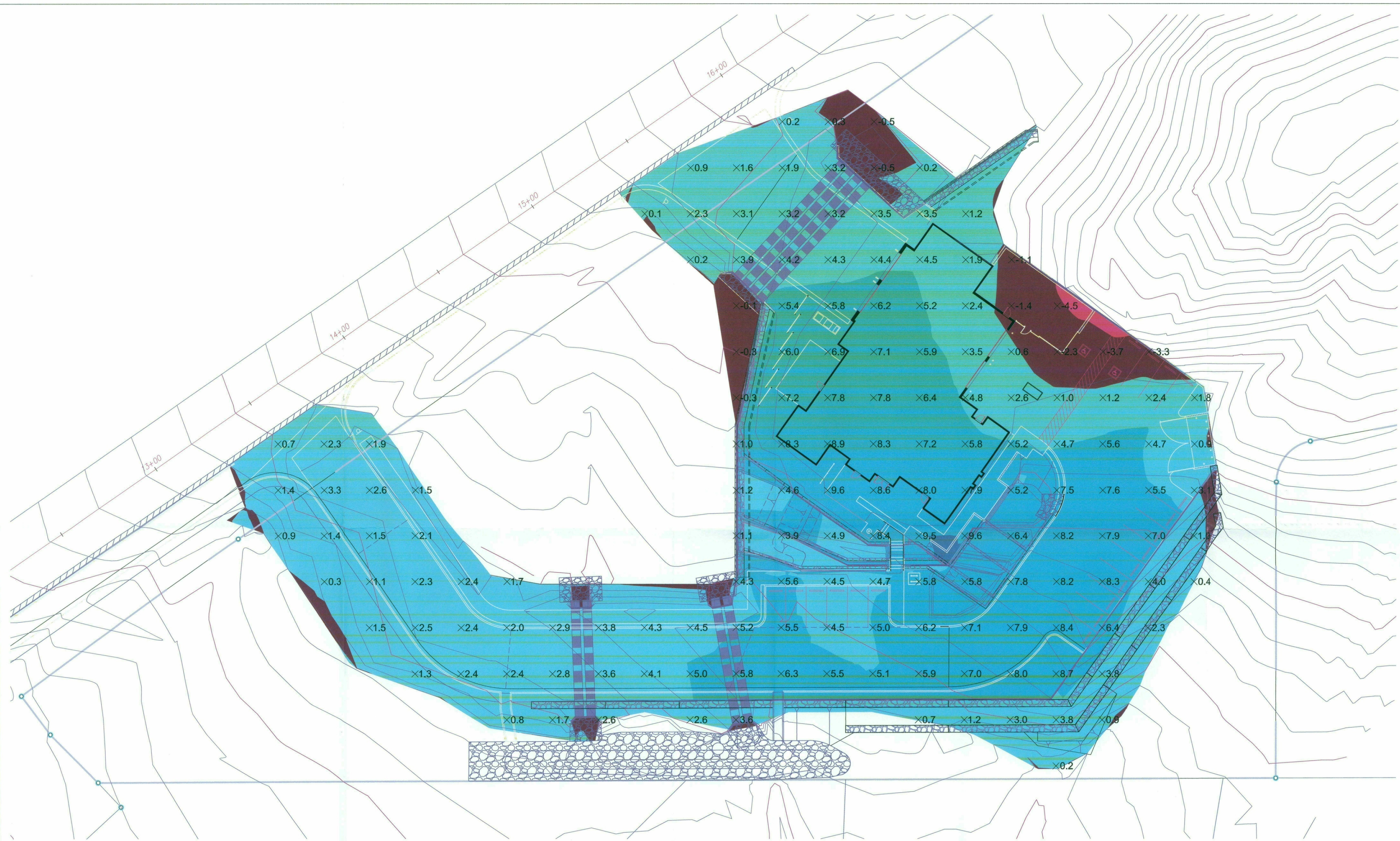
**AS12**

39-DR-2018  
1/09/2019



CHECKED BY:  
DRAWN BY:





EARTHWORK  
CUT = 264 CY  
FILL = 9,193 CY  
NET FILL (RAW) = 8,929 CY

**LEGEND**

|  |           |
|--|-----------|
|  | -10 TO -5 |
|  | -5 TO 0   |
|  | 0 TO +5   |
|  | +5 TO +10 |

SCALE: 1"=20'

|             |               |  |      |        |             |     |    |
|-------------|---------------|--|------|--------|-------------|-----|----|
| SHEET TITLE | PROJECT TITLE | CITY OF SCOTTSDALE FIRE STATION<br>CAVE CREEK ROAD, SCOTTSDALE, AZ<br>LOCATED IN A PORTION OF NORTHEAST QUARTER OF SECTION 28<br>T 6 N, R 5 E, G 6 S 6 M, MARICOPA COUNTY, SCOTTSDALE, ARIZONA | REV. | DATE   | DESCRIPTION | CK. | BY |
|             |               |  | 1    | 1/1/18 |             |     |    |

**Engineering and Environmental Consultants, Inc.**  
7740 N. 16th Street, Suite 135 | Phoenix, Arizona 85020  
Tel 602.248.7702 | Fax 602.248.7851

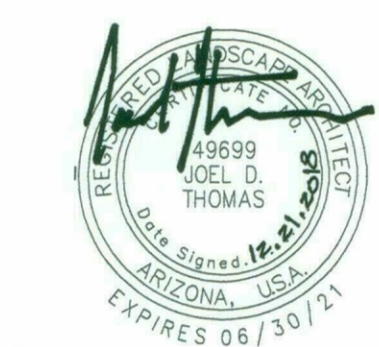
civil engineering • land development  
surveying • environmental services  
water • flood control and drainage  
transportation

|            |            |
|------------|------------|
| DESIGN BY: | JAR        |
| DRAWN BY:  | JAR        |
| CHK'D BY:  | JMG        |
| DATE:      | MARCH 2018 |
| SCALE:     |            |
| EEC NO     | 16535      |
| DRAWING NO |            |

1 OF 1



**City of Scottsdale**  
**Fire Station #616**



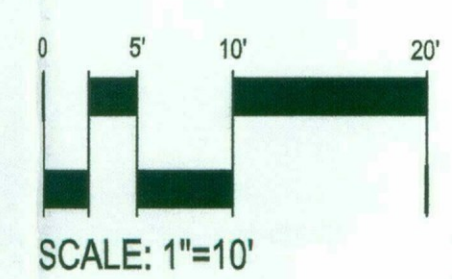
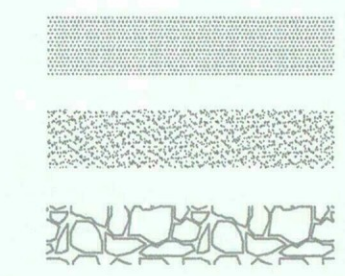
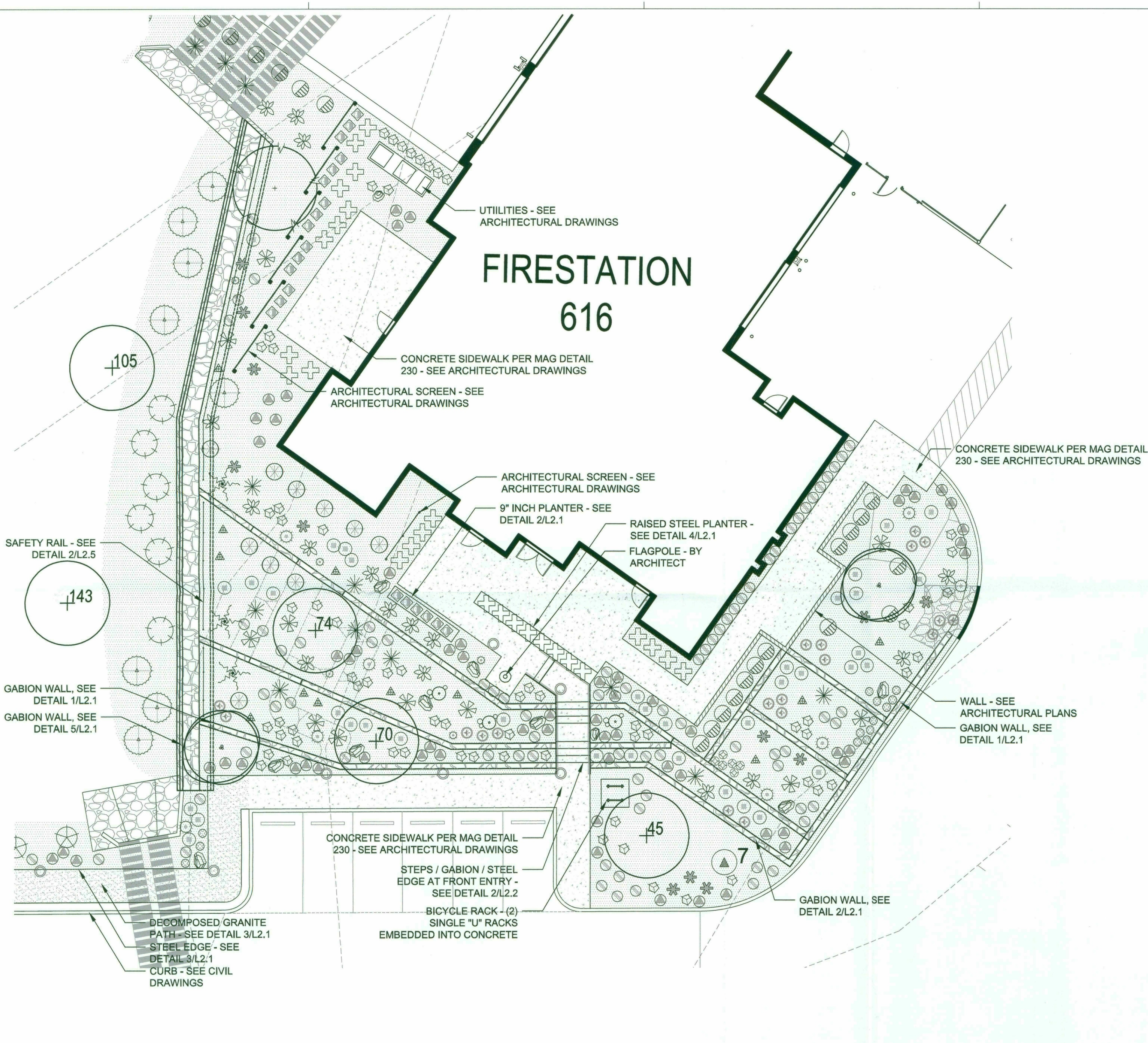
PROJECT NO: 16.11.00  
DATE: 12.21.18

| DATE       | DESCRIPTION          | ISSUED TO |
|------------|----------------------|-----------|
| 12.21.2018 | PLAN REVIEW COMMENTS | COO       |
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CHECKED BY: BAS

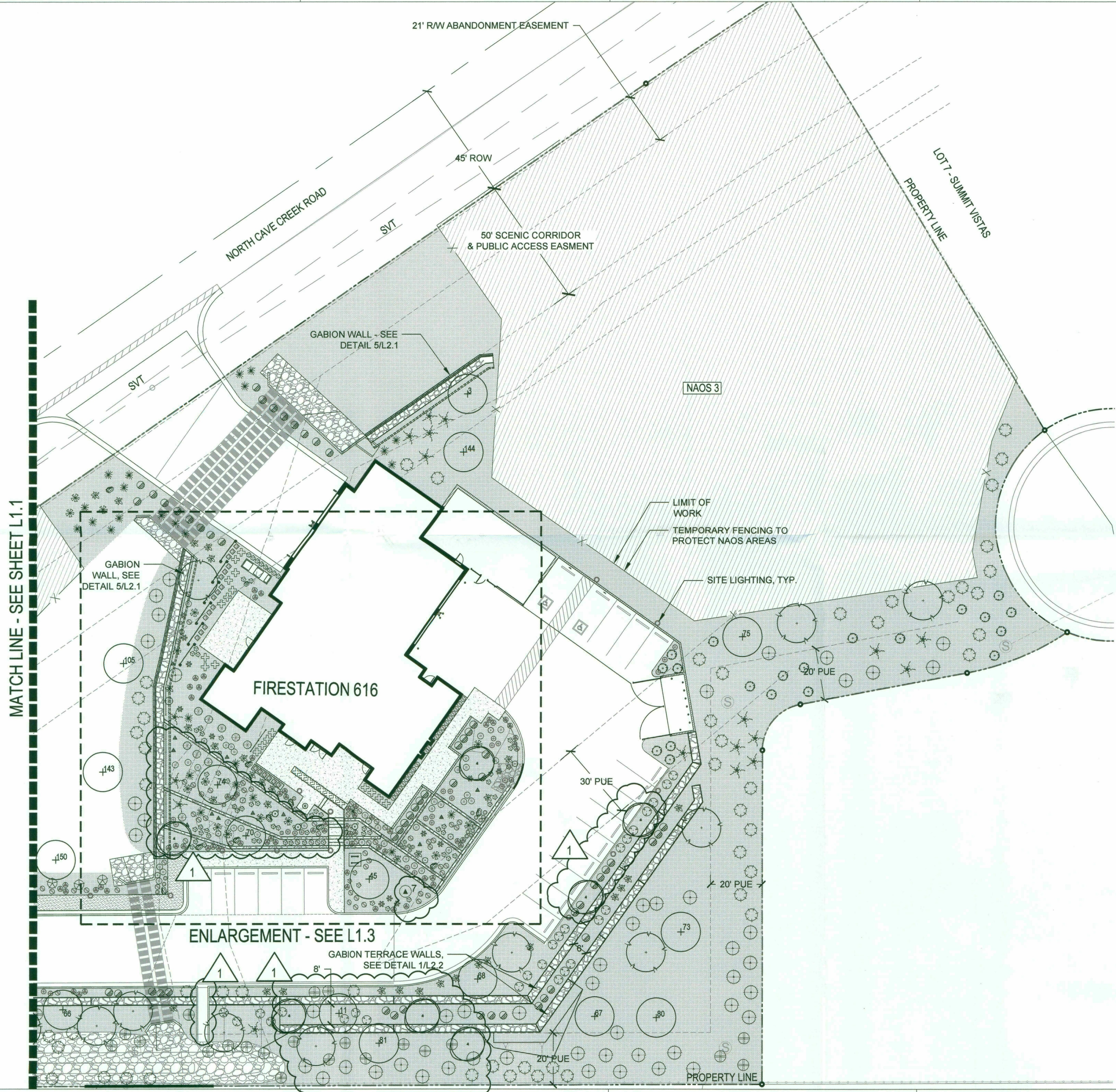
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


























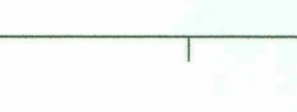

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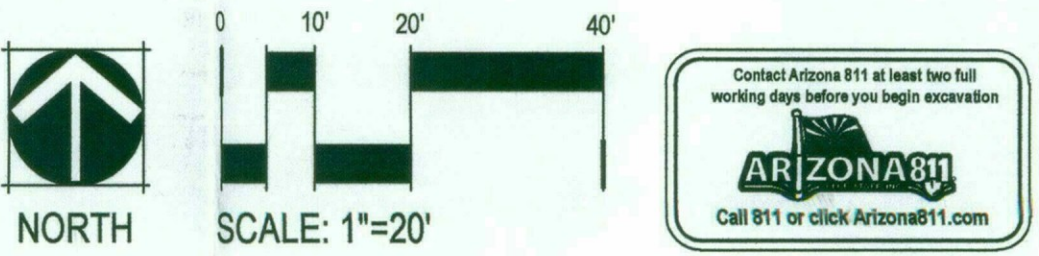


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DRAWN BY: RH





| PLANT SCHEDULE  | BOTANICAL NAME<br>COMMON NAME   | SIZE<br>BRANCHING     | CALIPER<br>HT & W           | QTY    |
|---|---|-----------------------|-----------------------------|--------|
| TREES   |   |                       |                             |        |
|    | Parkinsonia microphyllum<br>Foothills Palo Verde  | 36" BOX<br>MULTI      | 2" CALIPER<br>8' HT & 8' W  | 14     |
|    | Prosopis velutina<br>Velvet Mesquite  | 36" BOX               | 2" CALIPER<br>10' HT & 8' W | 8      |
|    | Relocated Salvaged Tree<br>See Sheet L1.1   |                       |                             | 19     |
|    | Tree to Remain in Place<br>See Sheet L1.1   |                       |                             |        |
| SHRUBS  |   |                       |                             |        |
|    | Anisacanthus quadrifidus<br>wrightii<br>Flame Anisacanthus  | 5 GALLON              |                             | 21     |
|    | Asclepias subulata<br>Desert Milkweed   | 5 GALLON              |                             | 38     |
|    | Baileya multiradiata<br>Desert Marigold   | 5 GALLON              |                             | 13     |
|    | Calliandra eriophylla<br>Baja Fairy Duster  | 5 GALLON              |                             | 87     |
|    | Encelia farinosa<br>Brittle Bush  | 5 GALLON              |                             | 20     |
|    | Justicia californica<br>Chuparosa   | 5 GALLON              |                             | 15     |
|    | Larrea tridentata<br>Creosote   | 5 GALLON              |                             | 58     |
|    | Atriplex lentiformis<br>Quailbush   | 5 GALLON              |                             | 26     |
|    | Simmondsia chinensis<br>Jojoba  | 5 GALLON              |                             | 30     |
|    | Vauquelinia californica<br>Arizona Rosewood   | 5 GALLON              |                             | 62     |
| ACCENTS   |   |                       |                             |        |
|    | Agave murpheyi<br>Murphy Agave  | 5 GALLON              |                             | 50     |
|    | Yucca schottii<br>Schott's Yucca  | 5 GALLON              |                             | 12     |
|  | Agave palmeri<br>Palmer Agave   | 5 GALLON              |                             | 15     |
|  | Yucca elata<br>Soap Tree Yucca  | 5 GALLON              |                             | 5      |
|  | Carnegiea gigantea<br>Saguaro   | SPEAR<br>8' HT        |                             | 3      |
|  | Dasylirion wheeleri<br>Desert Spoon   | 5 GALLON              |                             | 36     |
|  | Euphorbia antisyphilitica<br>Candelilla   | 5 GALLON              |                             | 86     |
|  | Penstemon parryi<br>Parry's Penstemon   | 5 GALLON              |                             | 71     |
|  | Ferocactus wislizeni<br>Arizona Barrel Cactus   | 5 GALLON<br>15 GALLON |                             | 8<br>5 |
|  | Fouquieria splendens<br>Ocotillo  | 10 CANE               | BARE ROOT                   | 32     |
|  | Hesperaloe parviflora 'Perla'<br>Brake Lights Red Yucca   | 5 GALLON              |                             | 67     |
|  | Pachycereus marginatus<br>Mexican Fencepost   | 15 GALLON             |                             | 21     |
|  | Pedilanthus macrocarpus<br>Lady's Slipper Plant   | 5 GALLON              |                             | 26     |
|  | Opuntia engelmannii<br>Engelman's Prickly Pear  | 15 GALLON             |                             | 12     |
|  | Relocated salvaged<br>cactus  |                       |                             | 1      |
|  | Relocated salvaged<br>yucca   |                       |                             | 1      |
| GRASSES / GROUNDCOVERS  |   |                       |                             |        |
|  | Abronia villosa<br>Sand Verbena   | 5 GALLON              |                             | 6      |
|  | Datura wrightii<br>Sacred Datura  | 5 GALLON              |                             | 24     |
| BOULDERS  |   |                       |                             |        |
|  | 36"-42" Boulder   | FROM SITE EXCAVATION  |                             | 18     |
|  | 24"-36" Boulder   | FROM SITE EXCAVATION  |                             | 1      |
| TOPDRESS  |   |                       |                             |        |
|  | 3" MINUS INERT GROUND COVER FROM SALVAGED MATERIAL. ADDITIONAL MATERIAL SHALL MATCH EXISTING COLOR.       |                       |                             |        |
|  | DECOMPOSED GRANITE: 1/4" MINUS<br>COLOR: MADISON GOLD   |                       |                             |        |
|  | RIP RAP AT DRAINAGE FEATURES - INSTALL PER CIVIL<br>DRAWINGS. COLOR TO MATCH SALVAGED SITE INERT MATERIAL |                       |                             |        |
| SITE  |   |                       |                             |        |
|  | TEMPORARY CONSTRUCTION FENCING<br>AT N.A.O.S. AREAS - PER L1.0 NAOS NOTE 2.2                              |                       |                             |        |

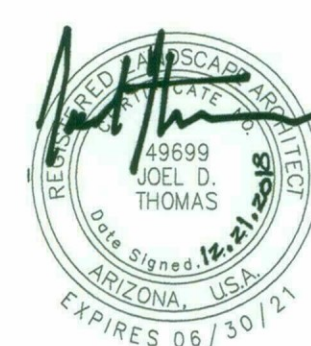


**Breckenridge**  
Group  
Architects  
Planners

2470 s hardy road ste 2  
tempe arizona 85282  
480.659.3332

**NORRIS DESIGN**  
Planning | Landscape Architecture | Branding

**City of Scottsdale**  
Fire Station #616



PROJECT NO:  
16.11.00

DATE:  
12.21.18

| REVISION | SCHEDULE   | DATE                 | DESCRIPTION | ISSUED TO |
|----------|------------|----------------------|-------------|-----------|
| 1        | 12.21.2018 | PLAN REVIEW COMMENTS | COS         |           |

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Landscape Plan

**L1.2**

Arizona 811  
Call 811 or click Arizona811.com





PLANT LEGEND

- TREE - SALVAGEABLE/ REMAIN IN PLACE
- TREE - NON-SALVAGEABLE
- TREE - SALVAGEABLE TO BE RELOCATED
- CACTI - SALVAGEABLE/ REMAIN IN PLACE
- CACTI - NON-SALVAGEABLE
- CACTI - SALVAGEABLE TO BE RELOCATED

PROJECT CONSULTANTS

**SALVAGE CONTRACTOR** **NATIVE RESOURCES INTERNATIONAL**  
1540 WEST HAPPY VALLEY ROAD  
PHOENIX, ARIZONA 85085  
623-869-6757 (P) • 623-869-6769 (F)  
CONTACT: KEVIN BRENDA

**NOTE:**  
PLANT INVENTORY FIELD WORK AND DOCUMENTATION ACCOMPLISHED BY NATIVE RESOURCES INTERNATIONAL (NRI). NRI IS A CITY OF SCOTTSDALE APPROVED SALVAGE CONTRACTOR.

REVEGETATION NOTES

- NAOS AREAS WILL NOT BE DISTURBED BY CONSTRUCTION AND WILL REMAIN IN THE NATIVE STATE. NO SEED MIX WILL BE APPLIED TO NAOS AREAS.
- SALVAGE AND REPLANTING LOCATIONS WILL BE IDENTIFIED ON THE PROJECT PLANTING PLAN.

SALVAGE PLANT SUMMARY

| PLANT # | COMMON NAME          | BOTANICAL NAME          | CALIPER | DISPOSITION* | NOTES   |
|---------|----------------------|-------------------------|---------|--------------|---------|
| 3       | Mesquite             | Prosopis                | 10      | S            |         |
| 7       | Soap Tree Yucca      | Yucca Elata             | 8       | S            | 3 heads |
| 8       | Mesquite             | Prosopis                | 7       | S            |         |
| 11      | Foothills Palo Verde | Parkinsonia microphylla | 5       | S            |         |
| 40      | Blue Palo Verde      | Parkinsonia florida     | 10      | S            |         |
| 42      | Blue Palo Verde      | Parkinsonia florida     | 8       | S            |         |
| 45      | Mesquite             | Prosopis                | 8       | S            |         |
| 66      | Blue Palo Verde      | Parkinsonia florida     | 6       | S            |         |
| 67      | Foothills Palo Verde | Parkinsonia microphylla | 4       | S            |         |
| 68      | Foothills Palo Verde | Parkinsonia microphylla | 5       | S            |         |
| 70      | Mesquite             | Prosopis                | 8       | S            |         |
| 73      | Foothills Palo Verde | Parkinsonia microphylla | 6       | S            |         |
| 74      | Mesquite             | Prosopis                | 6       | S            |         |
| 75      | Foothills Palo Verde | Parkinsonia microphylla | 5       | S            |         |
| 80      | Blue Palo Verde      | Parkinsonia florida     | 4       | S            |         |
| 81      | Blue Palo Verde      | Parkinsonia florida     | 7       | S            |         |
| 85      | Barrel               | Echinocactus grusonii   | 6       | S            |         |
| 105     | Foothills Palo Verde | Parkinsonia microphylla | 8       | S            |         |
| 143     | Blue Palo Verde      | Parkinsonia florida     | 6       | S            |         |
| 144     | Foothills Palo Verde | Parkinsonia microphylla | 6       | S            |         |
| 150     | Blue Palo Verde      | Parkinsonia florida     | 6       | S            |         |

\* S = SALVAGE

0 15' 30' 60'

SCALE: 1"=30'

Contact Arizona 811 at least two full working days before you begin excavation.  
Call 811 or click Arizona811.com

**Breckenridge**  
Group  
Architects  
Planners

2470 S HARDY ROAD STE 2  
TEMPE, ARIZONA 85282  
480.659.3332

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**City of Scottsdale**  
**Fire Station #616**

PROJECT NO: 16.11.00  
DATE: 12.21.18

| REVISION | SCHEDULE   | DESCRIPTION          | ISSUED TO |
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| 1        | 12.21.2018 | PLAN REVIEW COMMENTS | COB       |
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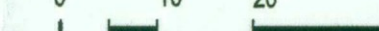
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Landscape Inventory / Salvage Plan


**LIS1.1**






NORTH  
 SCALE: 1"=20'

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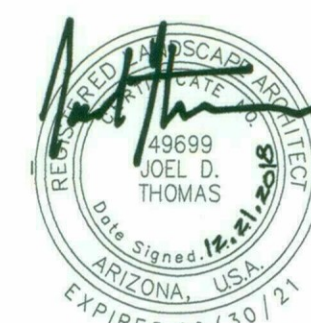


# Breckenridge

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**Fire Station #616**



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## Landscape Plan

## L1.1



# SCOTTSDALE FIRE STATION 616

## SCOTTSDALE, AZ 85034

ARCHITECT:  
BRECKENRIDGE GROUP  
2740 S HARDY DRIVE  
TEMPE AZ 85282

LANDSCAPE ARCHITECT:  
NORRIS DESIGN  
901 EAST MADISON ST  
PHOENIX AZ 85034

KLINDT BRECKENRIDGE  
KBRECKENRIDGE@BRECKENRIDGEARCHITECTS.COM  
PH: 480.659.3332

BRIAN SAGER  
BSAGER@NORRIS-DESIGN.COM  
PH: 602.254.9600 EX: 624

PARCEL ZONING:  
R1-43

PARCEL ADDRESS:

10905 EAST LOVING TREE LANE, SCOTTSDALE, ARIZONA 85262

PARCEL DIMENSIONS:

CAVE CREEK ROAD FRONTAGE: 676'

SOUTHERN BOUNDARY: 515'

SITE AREA: 3.46 ACRES

### GENERAL LANDSCAPE NOTES

- THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLAN AS CLOSELY AS POSSIBLE. ANY DISCREPANCY IN THE PLAN VERSUS THE FIELD CONDITIONS SHALL BE REPORTED TO THE CITY REPRESENTATIVE IMMEDIATELY.
- IN THE EVENT THAT PLANTED TREES NEED TO BE REMOVED IN ORDER TO PROVIDE ACCESS FOR UTILITY MAINTENANCE, REPLACEMENT OF SUCH TREES SHALL BE AT THE DEVELOPERS EXPENSE.
- LOCATION OF ALL ELEMENTS ON THIS PLAN SHALL BE APPROVED BY THE PROJECT REPRESENTATIVE, PRIOR TO INSTALLATION.
- MAINTENANCE: ALL LANDSCAPING AND IRRIGATION SYSTEMS SHALL BE MAINTAINED TO ACHIEVE PERMANENT, SAFE, AND SUCCESSFUL LANDSCAPING.
- ALL DISTURBED, GRUBBED, GRADED OR BLADED AREAS NOT OTHERWISE IMPROVED SHALL BE LANDSCAPED, RESEED, OR TREATED WITH AN INORGANIC OR ORGANIC GROUND COVER.
- THE SCHEDULE FOR PLANTING OF TREES AND SHRUBS SHALL BE AT THE DISCRETION OF THE CONTRACTOR. PLANTING DURING EXTREMELY COLD, HOT, OR WINDY PERIODS SHALL BE PERFORMED AT THE CONTRACTOR'S RISK. PLANTS WHICH ARE DAMAGED OR DIE PRIOR TO FINAL ACCEPTANCE AS A RESULT OF EXTREME WEATHER CONDITIONS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- PLANT SIZE, LOCATION AND SPACING:
  - TREES AND SHRUBS ARE TO BE LOCATED SO THAT, AT MATURITY, THEY DO NOT INTERFERE WITH EXISTING ON-SITE OR OFF-SITE UTILITY SERVICE LINES OR UTILITY EASEMENTS OR WITH SOLAR ACCESS TO AN ADJACENT PROPERTY.
  - ALL SHRUBS AND GROUND COVERS TO BE A MINIMUM OF 2' FROM BACK OF CURB OR BACK OF SIDEWALK.
- PLANT PLACEMENT TO BE FIELD ADJUSTED AS NEEDED TO AVOID PROPOSED UTILITIES, EXISTING PRESERVED VEGETATION, AND OTHER FIELD CONDITIONS. CONTACT THE OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS.
- ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE REVEGETATED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK.
- THE CONTRACTOR SHALL WARRANTY TREES FOR A PERIOD OF ONE YEAR AND ALL OTHER VEGETATION FOR NINETY (90) DAYS. THE CONTRACTOR SHALL WARRANTY THE IRRIGATION SYSTEM AND WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR.
- IN THE EVENT OF ANY DISPUTE BETWEEN THESE PLANS AND THE STANDARD SPECIFICATION, THE STANDARD SPECIFICATION SHALL PREVAIL.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES.
- IT IS THE OWNER'S RESPONSIBILITY TO KEEP THE SIGHT VISIBILITY TRIANGLES (SVT), AND THE PEDESTRIAN ACCESS AREAS CLEAR. FINAL PLANT LOCATIONS MUST BE IN COMPLIANCE WITH ALL UTILITY SETBACK REQUIREMENTS.
- REMOVE ALL EXISTING LANDSCAPE WITHIN THE LANDSCAPE LIMITS SHOWN ON LANDSCAPE PLAN, WITH THE EXCEPTION OF PLANTS IDENTIFIED AS PROTECT IN PLACE, PLANTS WITHIN THE RIGHT OF WAY, OR WITHIN THE N.A.O.S. OR AS DIRECTED BY THE OWNERS REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT. COORDINATE A SITE VISIT PRIOR TO DEMOLITION.
- LANDSCAPE ARCHITECT TO SELECT AND TAG TREES PRIOR TO INSTALLATION.
- A SEPARATE PERMIT WILL BE REQUIRED FOR GABION WALLS ONLY.
- MANUFACTURER OR CONTRACTOR TO PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR THE PERMIT.

### CITY OF SCOTTSDALE LANDSCAPE NOTES

- AREAS OF SALVAGED DESERT SURFACE SOIL WITHOUT PLANT MATERIALS / GROUND COVERS SHALL NOT EXCEED DIMENSIONS OF MORE THAN 7 FEET IN ANY ONE DIRECTION, MEASURED BETWEEN PLANT CANOPIES AND / OR COVERAGE.
- A MINIMUM OF 50 PERCENTAGE (UNLESS OTHERWISE STIPULATED BY THE DEVELOPMENT REVIEW BOARD, AND / OR THE ZONING ORDINANCE REQUIREMENTS) OF THE PROVIDED TREES SHALL BE MATURE TREES, PURSUANT TO THE CITY OF SCOTTSDALE'S ZONING ORDINANCE ARTICLE X, SECTION 10.301, AS DEFINED IN THE CITY OF SCOTTSDALE'S ZONING ORDINANCE ARTICLE III, SECTION 3.100.
- A SINGLE TRUNK TREE'S CALIPER SIZE, THAT IS TO BE EQUAL TO OR LESS THAN 4-INCHES, SHALL BE DETERMINED BY UTILIZING THE SMALLEST DIAMETER OF THE TRUNK 6-INCHES ABOVE FINISHED GRADE ADJACENT TO THE TRUNK. A TREE'S CALIPER SIZE, FOR SINGLE TRUNK TREES THAT ARE TO HAVE A DIAMETER GREATER THAN 4-INCHES, SHALL BE DETERMINED BY UTILIZING THE SMALLEST DIAMETER OF THE TRUNK 12-INCHES ABOVE FINISHED GRADE ADJACENT TO THE TRUNK. A MULTIPLE TRUNK TREE'S CALIPER SIZE IS MEASURED AT 6" ABOVE THE LOCATION THAT THE TRUNK SPLITS ORIGINATES, OR 6" ABOVE FINISHED GRADE IF ALL TRUNKS ORIGINATE FROM THE SOIL.
- AREA WITHIN THE SIGHT DISTANCE TRIANGLES IS TO BE CLEAR OF LANDSCAPING, SIGNS, OR OTHER VISIBILITY OBSTRUCTIONS WITH A HEIGHT GREATER THAN 1.5 FEET. TREES WITHIN THE SIGHT TRIANGLE SHALL HAVE A SINGLE TRUNK AND A CANOPY THAT BEGINS AT 8 FEET IN HEIGHT UPON INSTALLATION. ALL HEIGHTS ARE MEASURED FROM NEAREST STREET LINE ELEVATION.
- NO TURF AREAS ARE TO BE PROVIDED.
- RETENTION/DETENTION BASINS SHALL BE CONSTRUCTED SOLELY FROM THE APPROVED CIVIL PLANS. ANY ALTERATION OF THE APPROVED DESIGN (ADDITIONAL FILL, BOULDERS, ETC.) SHALL REQUIRE ADDITIONAL FINAL PLANS STAFF REVIEW AND APPROVAL.
- ALL RIGHTS-OF-WAY ADJACENT TO THIS PROPERTY SHALL BE LANDSCAPE AND MAINTAINED BY THE PROPERTY OWNER.
- PRIOR TO THE ESTABLISHMENT OF WATER SERVICE, NON-RESIDENTIAL PROJECTS WITH AN ESTIMATED ANNUAL WATER DEMAND OF TEN (10) ACRE-FEET OR MORE SHALL SUBMIT A CONSERVATION PLAN IN CONFORMANCE WITH SECTIONS 49-245 THROUGH 49-248 OF THE CITY CODE TO THE WATER CONSERVATION OFFICE.
- TURF SHALL BE LIMITED TO THE MAXIMUM AREA SPECIFIED IN SECTIONS 49-245 THROUGH 49-248 OF THE CITY CODE AND SHALL BE SHOWN ON LANDSCAPE PLANS SUBMITTED AT THE TIME OF THE FINAL PLANS.
- NO LIGHTING IS APPROVED WITH THE SUBMITTAL.
- THE APPROVAL OF THESE PLANS RECOGNIZE THE CONSTRUCTION OF A LOW VOLTAGE SYSTEM AND DOES NOT AUTHORIZE ANY VIOLATION OF THE CURRENT CITY OF SCOTTSDALE ADOPTED ELECTRICAL CODE.
- THE LANDSCAPE SPECIFICATION SECTIONS OF THESE PLANS HAVE NOT BEEN REVIEWED AND SHALL NOT BE PART OF THE CITY OF SCOTTSDALE'S APPROVAL.
- ALL SIGNS REQUIRE SEPARATE PERMITS AND APPROVALS.
- NEW LANDSCAPING, INCLUDING SALVAGED PLANT MATERIAL, AND LANDSCAPING INDICATED TO REMAIN, WHICH IS DESTROYED, DAMAGED, OR EXPIRES DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE SIZE, KIND, AND QUANTITY PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY / LETTER OF ACCEPTANCE TO THE SATISFACTION OF THE INSPECTION SERVICES STAFF.
- ALL REVEGETATED NAOS SHALL BE WATERED FOR 3 YEARS. AT THE END OF 3 YEARS, THE IRRIGATION SYSTEMS TO THE REVEGETATED NAOS SHALL BE PERMANENTLY DISCONNECTED.
- NO IRRIGATION SHALL BE PROVIDED TO UNDISTURBED NATURAL AREA OPEN SPACE (NAOS) AREAS.
- PROVIDE THE NATURAL AREA OPEN SPACE (NAOS) AND LIMITS OF CONSTRUCTION (LOC) PROTECTION PROGRAM ON THE PLANS.

### NAOS PROTECTION PROGRAM

- NO BUILDING, GRADING OR CONSTRUCTION ACTIVITY SHALL ENROACH INTO AREAS DESIGNATED AS NAOS, OR OUTSIDE THE DESIGNATED LIMITS OF CONSTRUCTION ENVELOPE.
- ALL NAOS AND AREA OUTSIDE OF THE LOC SHALL BE PROTECTED FROM DAMAGE PRIOR TO, AND DURING CONSTRUCTION BY THE FOLLOWING METHODS:
  - A REGISTERED LAND SURVEYOR SHALL STAKE ALL NAOS AND LOC DISTURBANCE BASED ON THIS EXHIBIT.
  - ±/- THREE (3) FOOT TALL STEEL REBAR, OR CITY OF SCOTTSDALE INSPECTION SERVICES APPROVED SIMILAR, SHALL BE SET ALONG THE NAOS AND LOC, AND CONNECTED WITH GOLD ROPING BY THE CONTRACTOR PRIOR TO ANY CLEARING OR GRADING.
  - ALL CACTUS SUBJECT TO THE CITY OF SCOTTSDALE'S NATIVE PLANT ORDINANCE DIRECTLY ADJACENT, WITHIN TWO FEET, OF THE NAOS AND LOC LINE SHALL BE FENCED WITH WIRE FENCING TO PREVENT DAMAGE.
  - THE CONTRACTOR SHALL MAINTAIN THE STAKING, ROPING, AND FENCING INTACT DURING THE DURATION OF THE CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL REMOVE STAKING, ROPING, AND FENCING AFTER RECEIPT OF THE LETTER OF ACCEPTANCE/CERTIFICATE OF OCCUPANCY FROM THE CITY OF SCOTTSDALE FOR ALL CONSTRUCTION WORK.

### REVEGETATION NOTES

- PLANTS**
- THE SITE DOES HAVE SIGNIFICANT NUMBERS OF EXISTING NATIVE PLANTS ON SITE.
  - THE EXISTING NATIVE PLANTS ON SITE HAVE BEEN INVENTORIED BY A CITY APPROVED SALVAGE CONTRACTOR (NATIVE RESOURCES INTERNATIONAL).
  - SALVAGABLE PLANTS WITHIN THE DESIGNATED AREA WILL BE SALVAGED, HELD ON SITE DURING THE DURATION OF CONSTRUCTION, AND WILL BE REPLANTED WITHIN THE PLANTABLE AREAS BUT OUTSIDE OF THE NAOS. ALL EXISTING PLANTS AND DESERT PAVEMENT WITHIN THE NAOS AREAS WILL REMAIN UNDISTURBED.
  - PLANTS SELECTED FOR ALL PLANTABLE AREAS HAVE BEEN SELECTED FROM THE CITY OF SCOTTSDALE'S INDIGENOUS PLANT LIST FOR ALL PLANTS NOT ENCLOSED BY WALLS, AND FROM THE "DESERT APPROPRIATE PLANT LIST" FOR AREAS ADJACENT TO THE BUILDING AND SEPARATED FROM THE SITE BY PAVING OR WALLS. ALL PLANTED PLANTS WILL RECEIVE DRIP IRRIGATION, INCLUDING ACCENTS AND REPLANTED SALVAGED TREES AND CACTUS.

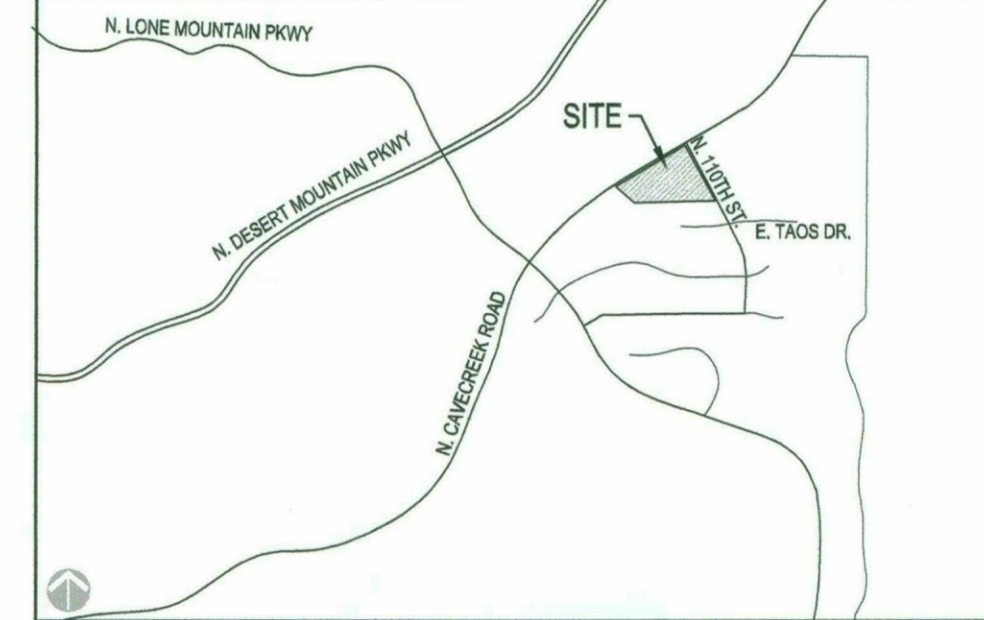
- DESERT PAVEMENT**
- PRIOR TO GRADING ACTIVITIES, THE CONTRACTOR SHALL SALVAGE THE TOP 2" OF INERT MATERIAL, KNOWN AS "DESERT PAVEMENT", FROM ALL AREAS OF THE SITE THAT WILL BE RE-GRADED.
  - CONTRACTOR SHALL STORE SALVAGED DESERT PAVEMENT ON SITE DURING THE DURATION OF CONSTRUCTION.
  - CONTRACTOR SHALL USE SALVAGED AND STORED DESERT PAVEMENT AS INERT GROUND COVER AFTER PLANTING AND IRRIGATION HAS BEEN CONSTRUCTED.
  - SUPPLEMENTAL INERT GROUND COVER, AS NEEDED FOR FULL SITE COVERAGE, WILL BE SELECTED TO MATCH THE COLOR OF THE EXISTING MATERIAL WITHIN THE SITE NAOS AREAS.

- SEEDING**
- NO SEED MIX IS PROPOSED. USE OF DESERT PAVEMENT, INDIGENOUS PLANTS, AND NAOS WILL REVEGETATE THE SITE.
  - NAOS AREA PLANTS WILL CONTRIBUTE SEED STOCK TO ADJACENT SITE AREA, AND THE PLANTED PLANTS WILL ALSO CONTRIBUTE SEED STOCK THAT MAY CONTRIBUTE TO ADDITIONAL PLANTS ON SITE.
  - THE EXISTING WASH IS A SANDY BOTTOM WASH. INERT MATERIAL, PLANTING, OR SEED MIX WOULD BE WASHED AWAY AND MAY IMPACT FLOW PATTERNS.

### SHEET INDEX

| SHEET # | DESCRIPTION                 | (03/02/18) ISSUED FOR: DESIGN DEVELOPMENT | (09/27/18) ISSUED FOR: CONSTRUCTION DOCUMENTS | (12/17/18) ISSUED FOR: CONSTRUCTION DOCUMENTS |
|---------|-----------------------------|---|---|---|
| L1.0    | LANDSCAPE COVER             | X   | X   | X   |
| L1S1.1  | LANDSCAPE INVENTORY SALVAGE | X   | X   | X   |
| L1.1    | LANDSCAPE PLAN              | X   | X   | X   |
| L1.2    | LANDSCAPE PLAN              | X   | X   | X   |
| L1.3    | LANDSCAPE PLAN ENLARGEMENT  | X   | X   | X   |
| L2.1    | HARDSCAPE DETAILS           | X   | X   | X   |
| L2.2    | HARDSCAPE DETAILS           | X   | X   | X   |
| L2.3    | LANDSCAPE DETAILS           |   |   | X   |
| L2.4    | LANDSCAPE DETAILS           |   |   | X   |
| L1I.0   | IRRIGATION NOTES            | X   | X   | X   |
| L1I.1   | IRRIGATION PLAN             | X   | X   | X   |
| L1I.2   | IRRIGATION PLAN             | X   | X   | X   |
| L1I.2   | IRRIGATION DETAILS          | X   | X   | X   |
| L1I.2   | IRRIGATION DETAILS          | X   | X   | X   |
| LR1.1   | REVEGETATION PLAN           | X   |   |   |

### VICINITY MAP



| PLANT SCHEDULE                 | BOTANICAL NAME<br>COMMON NAME   | SIZE<br>BRANCHING     | CALIPER<br>HT & W           | QTY    |
|--------------------------------|---|-----------------------|-----------------------------|--------|
| <b>TREES</b>                   |   |                       |                             |        |
|                                | Parkinsonia microphyllum<br>Foothills Palo Verde  | 36" BOX<br>MULTI      | 2" CALIPER<br>8' HT & 6' W  | 14     |
|                                | Prosopis juliflora<br>Velvet Mesquite   | 36" BOX               | 2" CALIPER<br>10' HT & 8' W | 8      |
|                                | Relocated Salvaged Tree<br>See Sheet L1I.1  |                       |                             | 19     |
|                                | Tree to Remain in Place<br>See Sheet L1I.1  |                       |                             |        |
| <b>SHRUBS</b>                  |   |                       |                             |        |
|                                | Anisacanthus quadrifidus<br>wrightii<br>Flame Anisacanthus  | 5 GALLON              |                             | 21     |
|                                | Asclepias subulata<br>Desert Milkweed   | 5 GALLON              |                             | 38     |
|                                | Baileya multiradiata<br>Desert Marigold   | 5 GALLON              |                             | 13     |
|                                | Calliandra eriophylla<br>Baja Fairy Duster  | 5 GALLON              |                             | 87     |
|                                | Encelia farinosa<br>Brittle Bush  | 5 GALLON              |                             | 20     |
|                                | Justicia californica<br>Chuparosa   | 5 GALLON              |                             | 15     |
|                                | Larrea tridentata<br>Creosote   | 5 GALLON              |                             | 58     |
|                                | Atriplex lentiformis<br>Quailbush   | 5 GALLON              |                             | 26     |
|                                | Simmondsia chinensis<br>Jojoba  | 5 GALLON              |                             | 30     |
|                                | Vauquelinia californica<br>Arizona Rosewood   | 5 GALLON              |                             | 62     |
| <b>ACCENTS</b>                 |   |                       |                             |        |
|                                | Agave murpheyi<br>Murphy Agave  | 5 GALLON              |                             | 50     |
|                                | Yucca schottii<br>Schott's Yucca  | 5 GALLON              |                             | 12     |
|                                | Agave palmeri<br>Palmer Agave   | 5 GALLON              |                             | 15     |
|                                | Yucca elata<br>Soap Tree Yucca  | 5 GALLON              |                             | 5      |
|                                | Carnegiea gigantea<br>Saguaro   | SPEAR<br>6' HT        |                             | 3      |
|                                | Dasyliodon wheeleri<br>Desert Spoon   | 5 GALLON              |                             | 36     |
|                                | Euphorbia antisyphilitica<br>Candelilla   | 5 GALLON              |                             | 86     |
|                                | Penstemon parryi<br>Parry's Penstemon   | 5 GALLON              |                             | 71     |
|                                | Ferocactus wislizeni<br>Arizona Barrel Cactus   | 5 GALLON<br>15 GALLON |                             | 8<br>5 |
|                                | Fouquieria splendens<br>Ocotillo  | 10 CANE               | BARE ROOT                   | 32     |
|                                | Hesperaloe parviflora 'Pepita'<br>Brake Lights Red Yucca  | 5 GALLON              |                             | 67     |
|                                | Pachocereus marginatus<br>Mexican Fencepost   | 15 GALLON             |                             | 21     |
|                                | Pedilanthus macrocarpus<br>Lady's Slipper Plant   | 5 GALLON              |                             | 26     |
|                                | Opuntia engelmannii<br>Engelmann's Prickly Pear   | 15 GALLON             |                             | 12     |
|                                | Relocated salvaged<br>cactus  |                       |                             | 1      |
|                                | Relocated salvaged<br>yucca   |                       |                             | 1      |
| <b>GRASSES / GROUND COVERS</b> |   |                       |                             |        |
|                                | Abronia villosa<br>Sand Verbena   | 5 GALLON              |                             | 6      |
|                                | Datura wrightii<br>Sacred Datura  | 5 GALLON              |                             | 24     |
| <b>BOULDERS</b>                |   |                       |                             |        |
|                                | 36"-42" Boulder   | FROM SITE EXCAVATION  |                             | 18     |
|                                | 24"-36" Boulder   | FROM SITE EXCAVATION  |                             | 1      |
| <b>TOPDRESS</b>                |   |                       |                             |        |
|                                | 3" MINUS INERT GROUND COVER FROM SALVAGED MATERIAL.<br>ADDITIONAL MATERIAL SHALL MATCH EXISTING COLOR.    |                       |                             |        |
|                                | DECOMPOSED GRANITE: 1/4" MINUS<br>COLOR: MADISON GOLD   |                       |                             |        |
|                                | RIP RAP AT DRAINAGE FEATURES - INSTALL PER CIVIL<br>DRAWINGS. COLOR TO MATCH SALVAGED SITE INERT MATERIAL |                       |                             |        |
| <b>SITE</b>                    |   |                       |                             |        |
|                                | TEMPORARY CONSTRUCTION FENCING<br>AT N.A.O.S. AREAS - PER L1.0 NAOS NOTE 2.2                              |                       |                             |        |

**Breckenridge**  
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480.659.3332

**NORRIS DESIGN**  
Planning | Landscape Architecture | Branding

**City of Scottsdale**  
Fire Station #616



PROJECT NO:  
16.11.00

DATE:  
12.21.18

REVISION SCHEDULE:  
DATE DESCRIPTION ISSUED TO  
12.21.2018 PLAN REVIEW COMMENTS CDS

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CHECKED BY: BAS

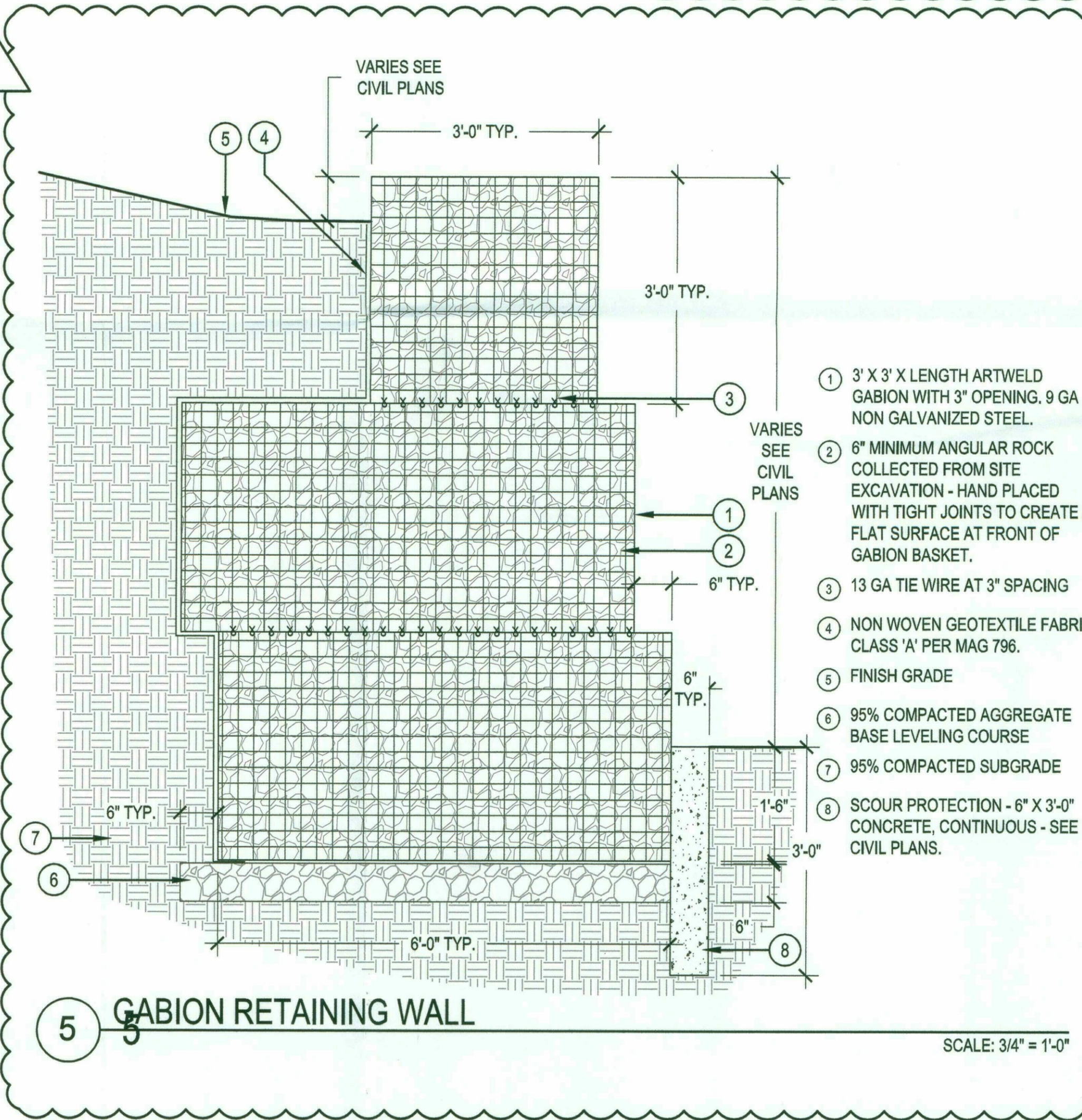
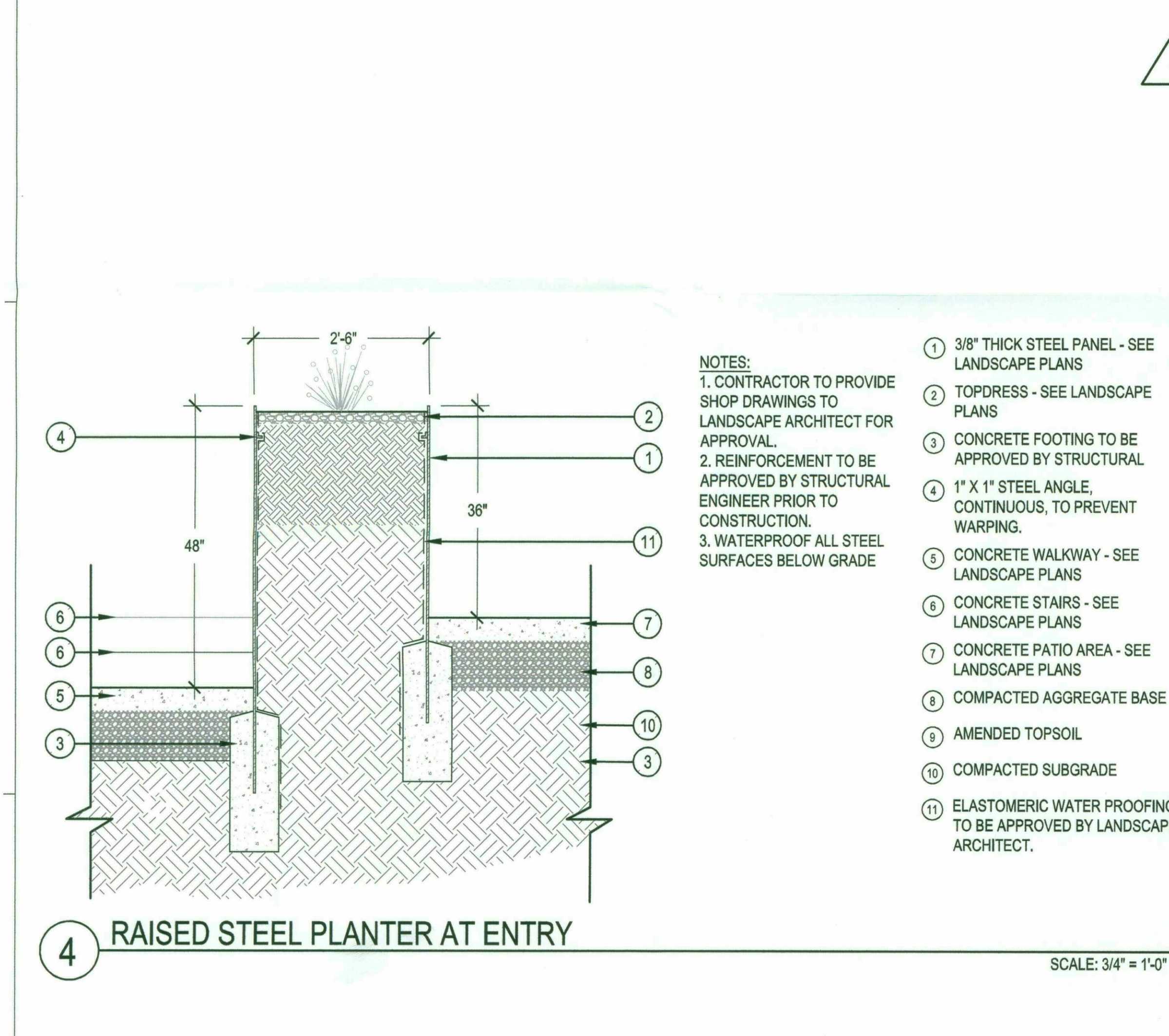
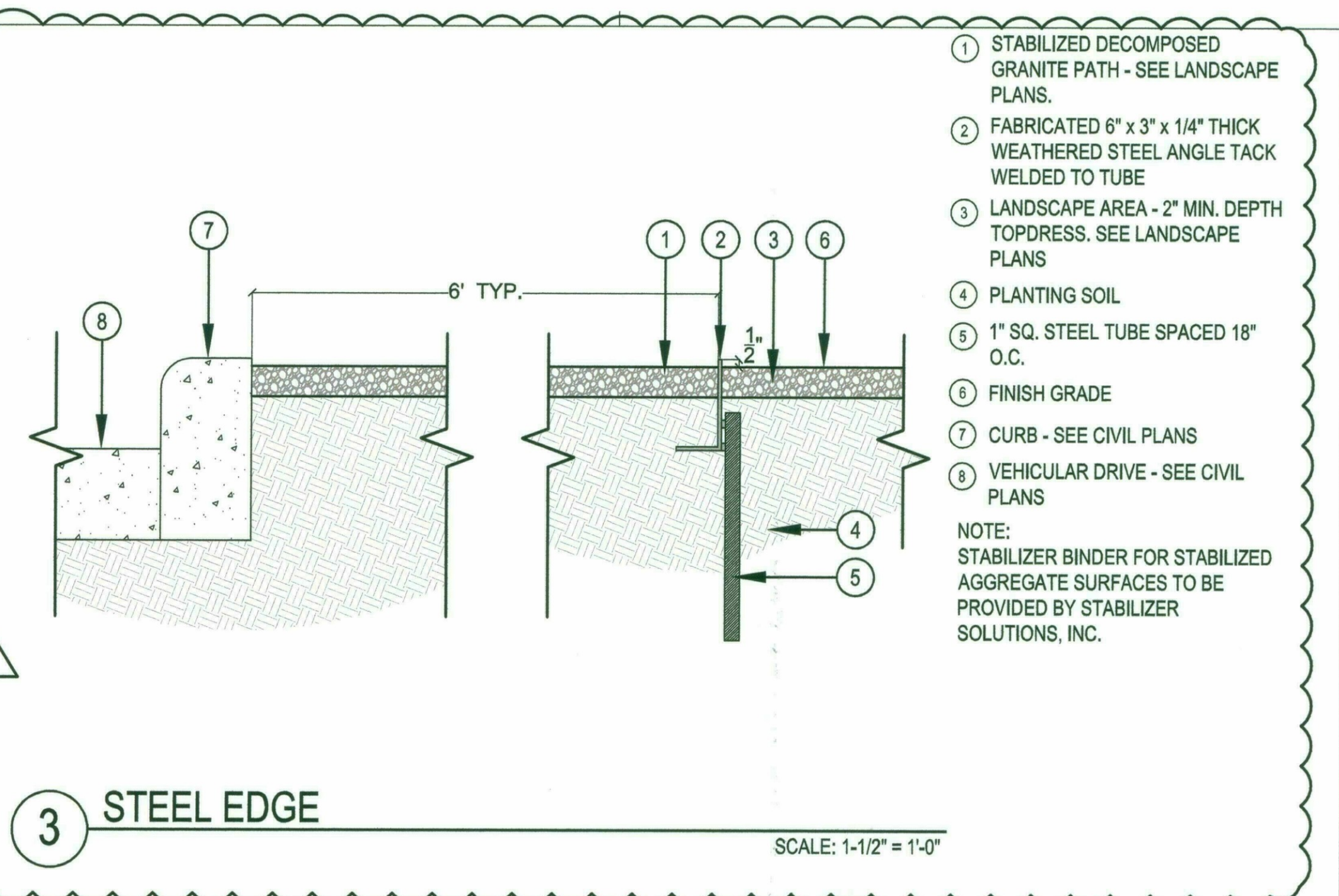
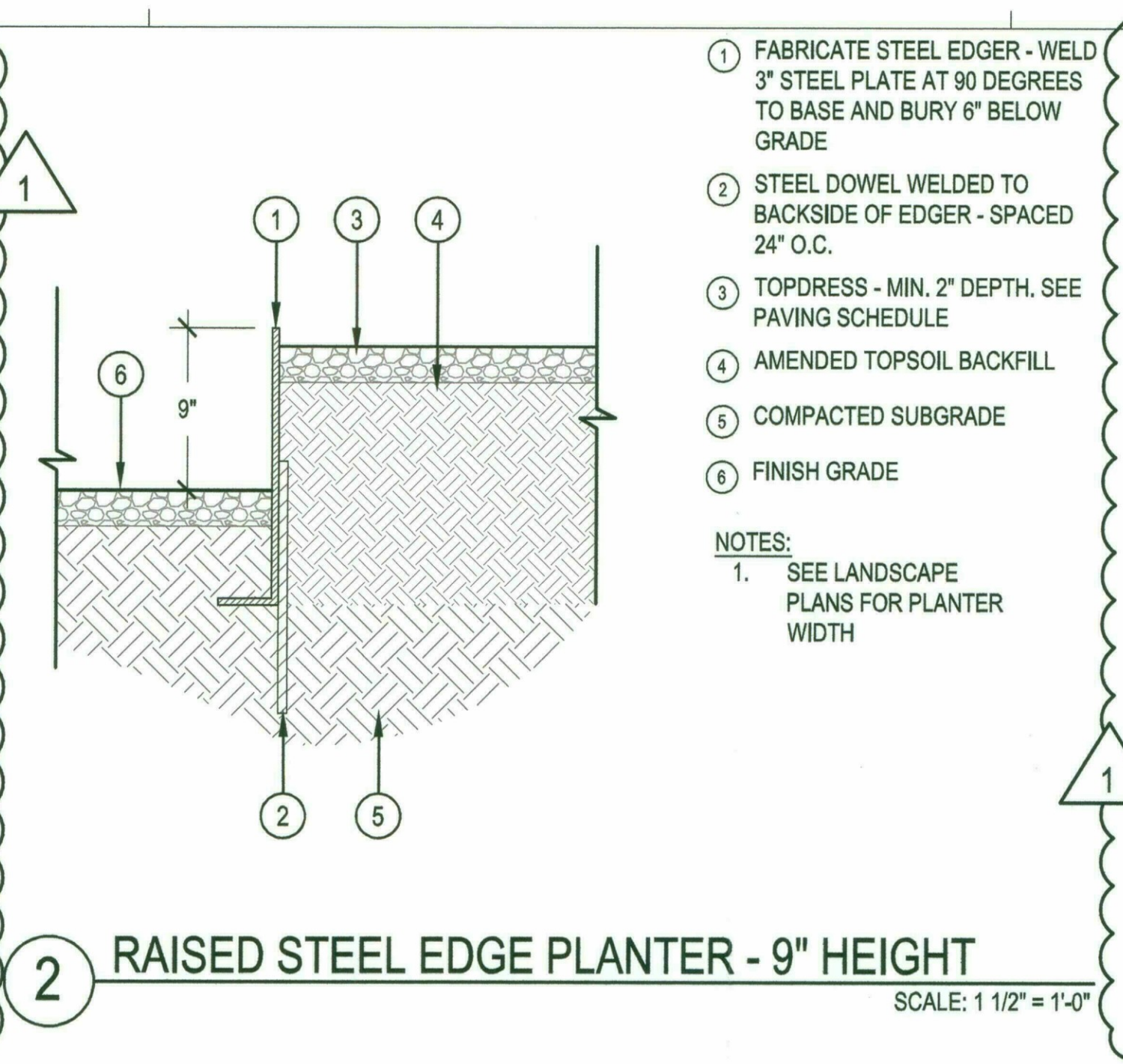
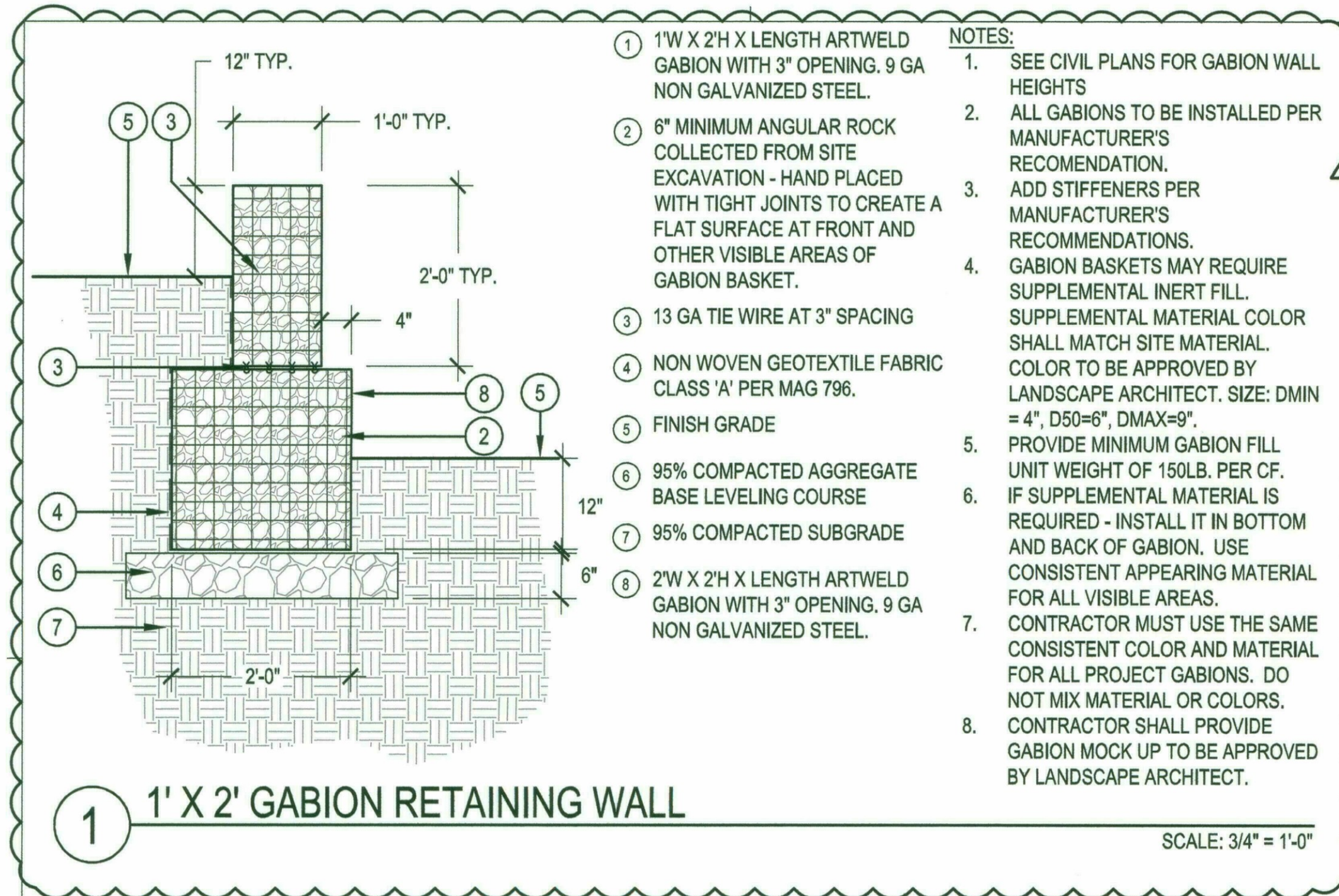
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Landscape Cover

**L1.0**





- NOTES:**
1. SEE CIVIL PLANS FOR GABION WALL HEIGHTS
  2. ALL GABIONS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
  3. ADD STIFFENERS PER MANUFACTURER'S RECOMMENDATIONS.
  4. GABION BASKETS MAY REQUIRE SUPPLEMENTAL INERT FILL. SUPPLEMENTAL MATERIAL COLOR SHALL MATCH SITE MATERIAL. COLOR TO BE APPROVED BY LANDSCAPE ARCHITECT. SIZE: DMIN = 4", D50=6", DMAX=9".
  5. PROVIDE MINIMUM GABION FILL UNIT WEIGHT OF 150LB. PER CF.
  6. IF SUPPLEMENTAL MATERIAL IS REQUIRED - INSTALL IT IN BOTTOM AND BACK OF GABION. USE CONSISTENT APPEARING MATERIAL FOR ALL VISIBLE AREAS.
  7. CONTRACTOR MUST USE THE SAME CONSISTENT COLOR AND MATERIAL FOR ALL PROJECT GABIONS. DO NOT MIX MATERIAL OR COLORS.
  8. CONTRACTOR SHALL PROVIDE GABION MOCK UP TO BE APPROVED BY LANDSCAPE ARCHITECT.

- GABION WALL NOTES**
1. A SEPARATE PERMIT WILL BE REQUIRED FOR THE GABION WALLS ONLY.
  2. MANUFACTURER OR CONTRACTOR TO PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR THE PERMIT.

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**NORRIS DESIGN**  
 Planning | Landscape Architecture | Branding

**City of Scottsdale**  
**Fire Station #616**

PROJECT NO: 16.11.00  
 DATE: 12.21.18  
 REVISION SCHEDULE:  
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 1 12.21.2018 PLAN REVIEW COMMENTS CUS

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**Hardscape Details**

**L2.1**









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group  
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Fire Station #616

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PROJECT NO:  
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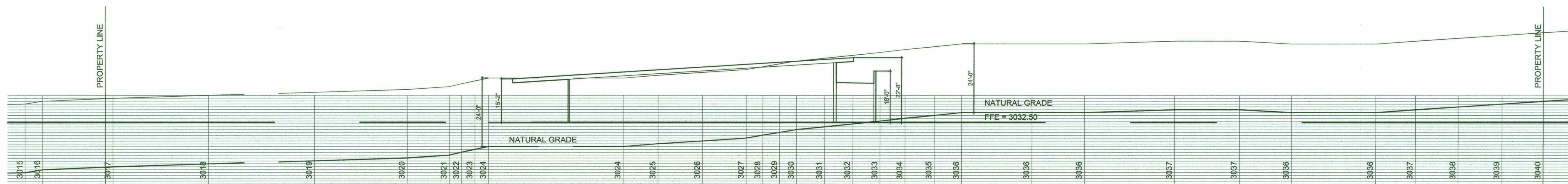
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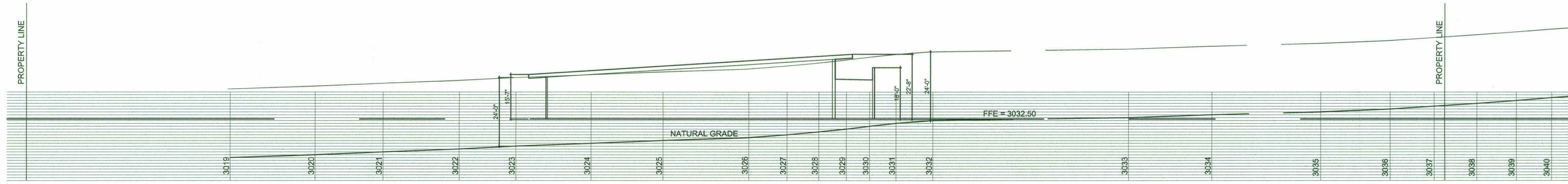
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Site Cross Sections  
**AS13**



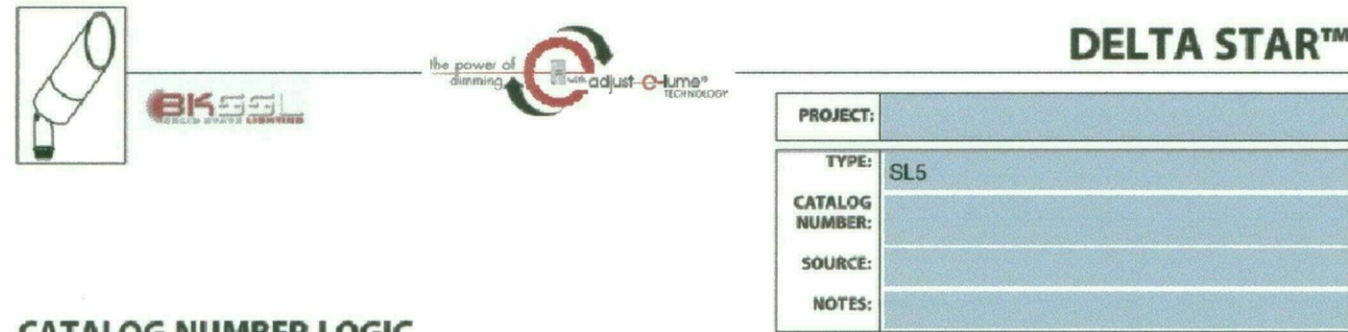
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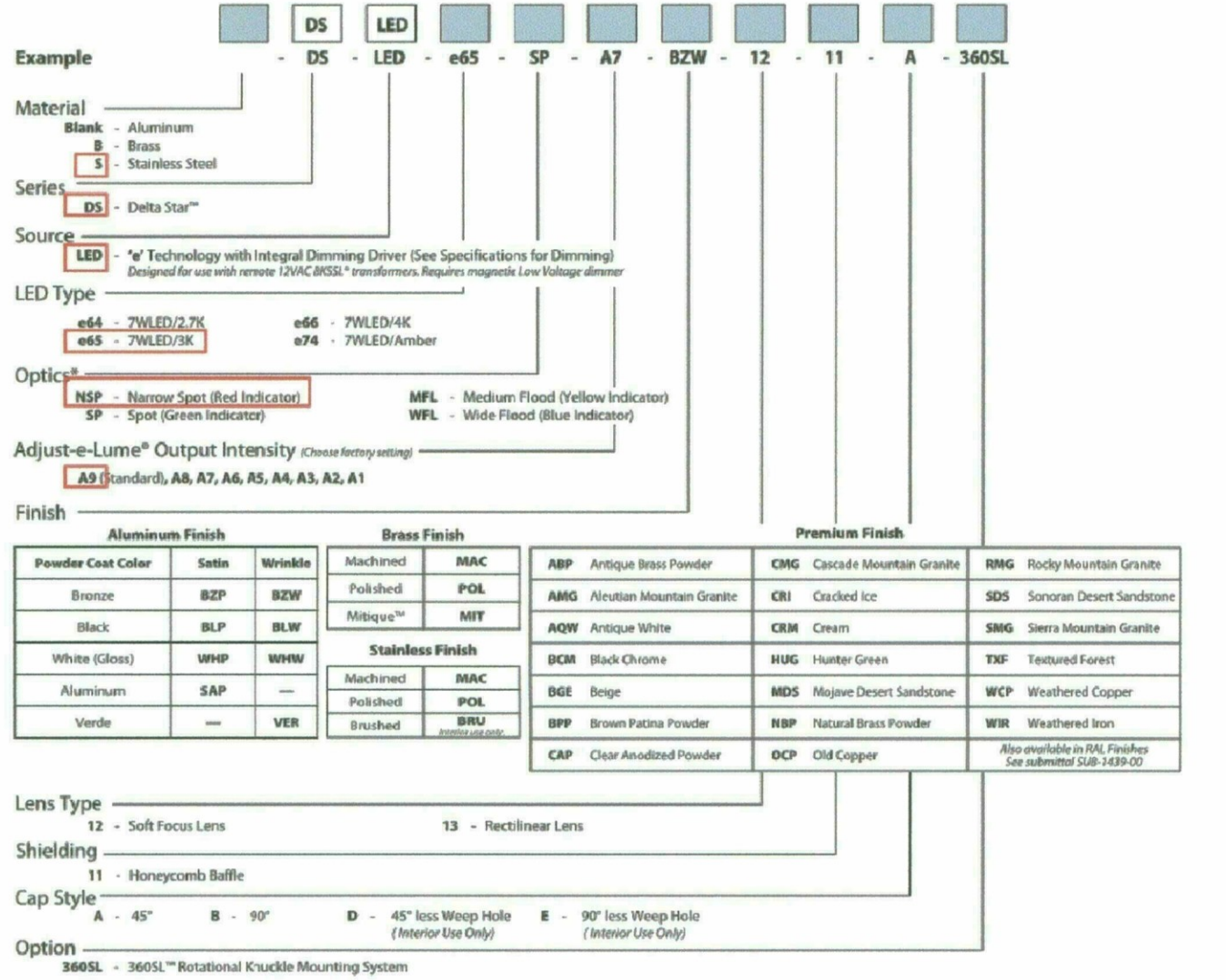
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1" = 20'-0" 0 20' 60'

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DRAWN BY:





# CATALOG NUMBER LOGIC



| DRIVER DATA | Input Volts      | Initial Current     | Operating Current | Dimmable                    | Operation Ambient Temperature |
|-------------|------------------|---------------------|-------------------|-----------------------------|-------------------------------|
|             | 12VAC/DC 50/60Hz | <250mA (non-dimmed) | 700mA             | Magnetic Low Voltage Dimmer | -22°F - 194°F (-30°C - 90°C)  |

| LM79 DATA | BK No. | CCT (Typ.)    | Input Watts (Typ.) | CRI | Minimum Rated Life (hrs.) 70% of initial lumens (L <sub>70</sub> ) |
|-----------|--------|---------------|--------------------|-----|--|
|           | e64    | 2700K         | 7.0                | 80  | 50,000   |
|           | e65    | 3000K         | 7.0                | 80  | 50,000   |
|           | e66    | 4000K         | 7.0                | 80  | 50,000   |
|           | e74    | Amber (590nm) | 7.0                | —   | 50,000   |

| L70 DATA | BK No. | CCT (Typ.)    | Input Watts (Typ.) | CRI | Minimum Rated Life (hrs.) 70% of initial lumens (L <sub>70</sub> ) |
|----------|--------|---------------|--------------------|-----|--|
|          | e64    | 2700K         | 7.0                | 80  | 50,000   |
|          | e65    | 3000K         | 7.0                | 80  | 50,000   |
|          | e66    | 4000K         | 7.0                | 80  | 50,000   |
|          | e74    | Amber (590nm) | 7.0                | —   | 50,000   |

| OPTICAL DATA | Beam Type    | Angle | e64 CRI | Visual Indicator |
|--------------|--------------|-------|---------|------------------|
|              | Narrow Spot  | 13°   | 6895    | Red Dot          |
|              | Spot         | 15°   | 5225    | Green Dot        |
|              | Medium Flood | 23°   | 1984    | Yellow Dot       |
|              | Wide Flood   | 31°   | 1300    | Blue Dot         |

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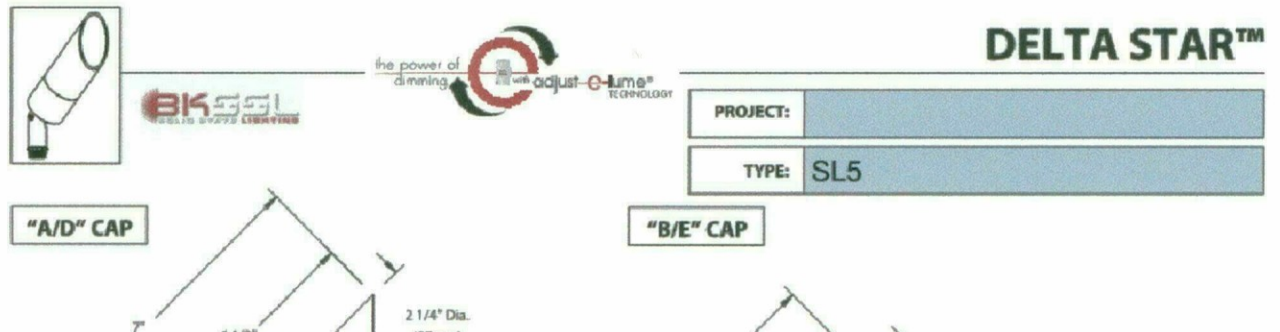
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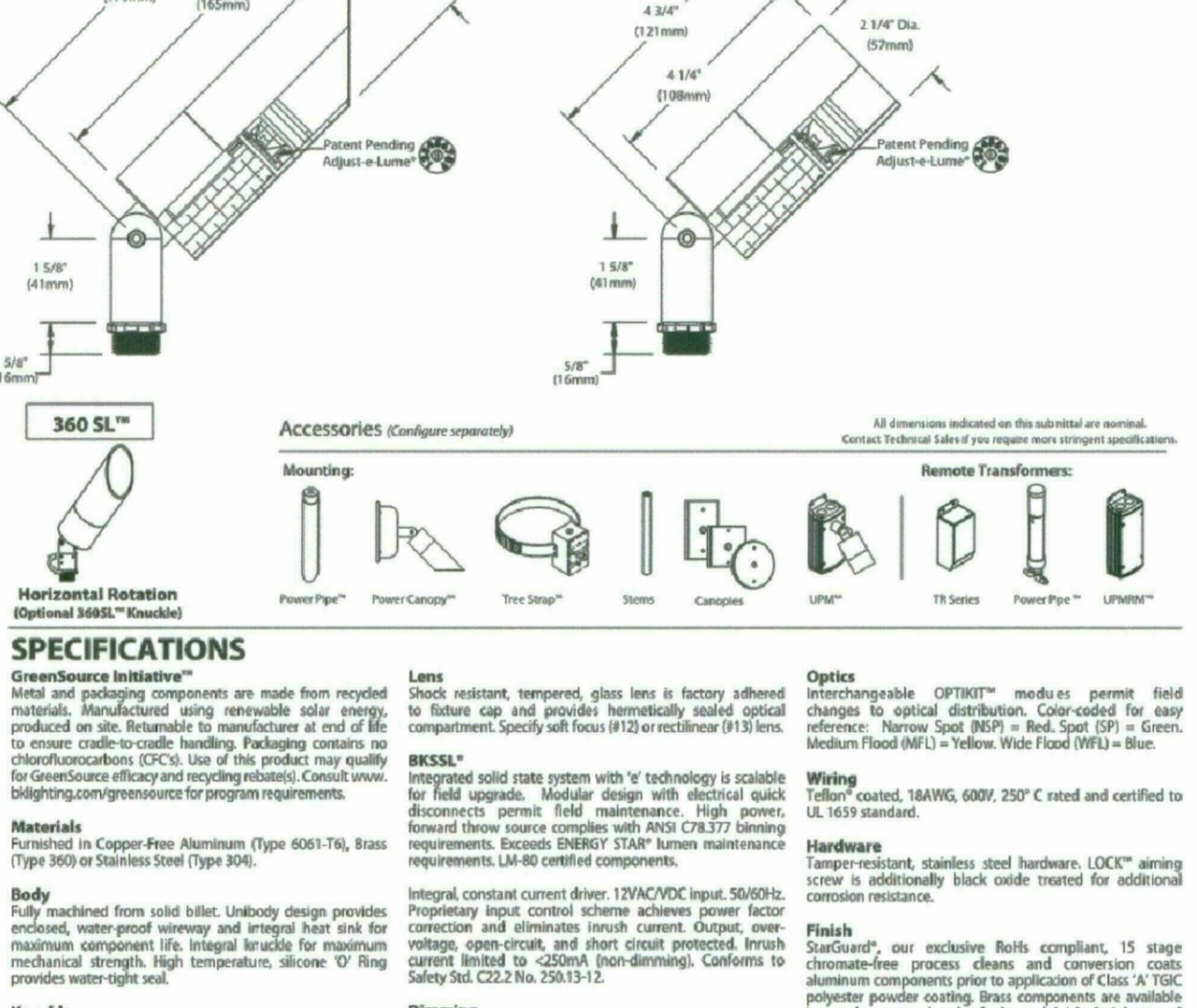
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|----------|--------|---------------|--------------------|-----|--|
|          | e64    | 2700K         | 7.0                | 80  | 50,000   |
|          | e65    | 3000K         | 7.0                | 80  | 50,000   |
|          | e66    | 4000K         | 7.0                | 80  | 50,000   |
|          | e74    | Amber (590nm) | 7.0                | —   | 50,000   |

| OPTICAL DATA | Beam Type    | Angle | e64 CRI | Visual Indicator |
|--------------|--------------|-------|---------|------------------|
|              | Narrow Spot  | 13°   | 6895    | Red Dot          |
|              | Spot         | 15°   | 5225    | Green Dot        |
|              | Medium Flood | 23°   | 1984    | Yellow Dot       |
|              | Wide Flood   | 31°   | 1300    | Blue Dot         |

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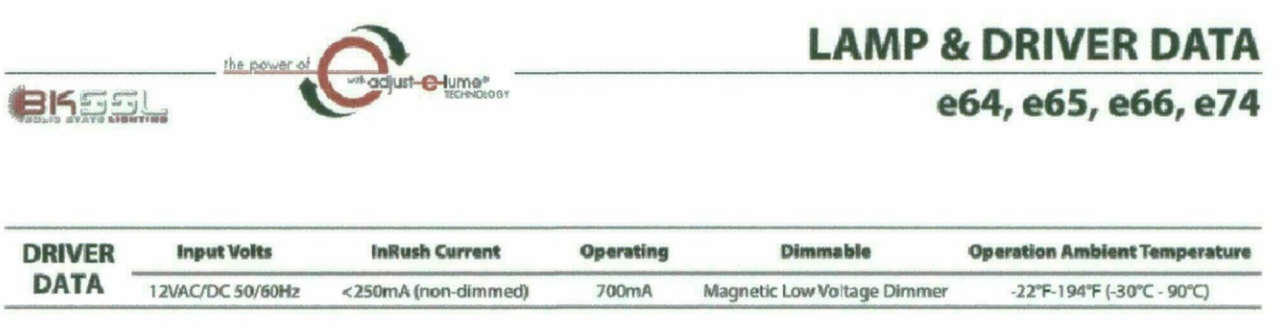
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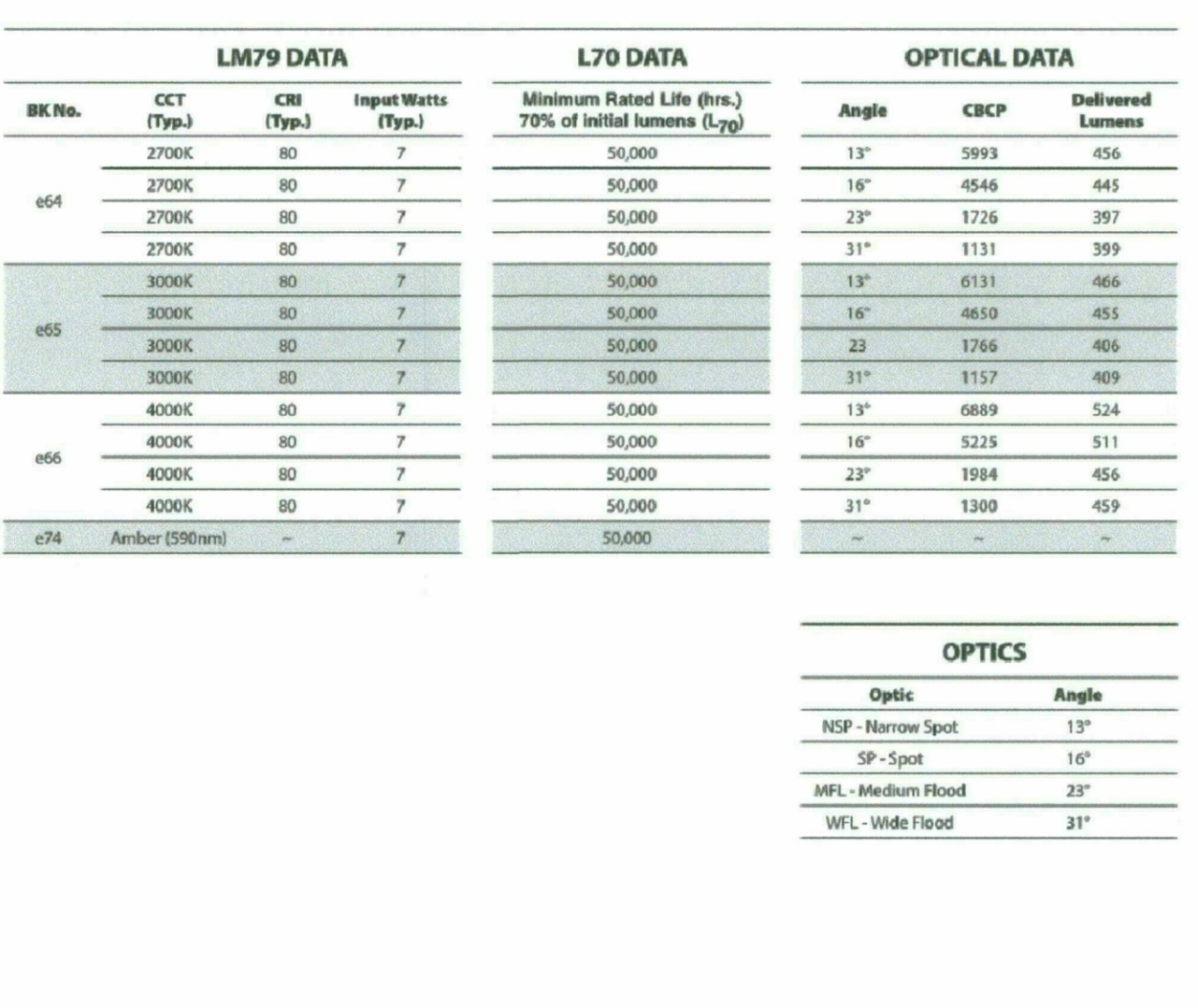
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# CATALOG NUMBER LOGIC



| DRIVER DATA | Input Volts      | Initial Current     | Operating Current | Dimmable                    | Operation Ambient Temperature |
|-------------|------------------|---------------------|-------------------|-----------------------------|-------------------------------|
|             | 12VAC/DC 50/60Hz | <250mA (non-dimmed) | 700mA             | Magnetic Low Voltage Dimmer | -22°F - 194°F (-30°C - 90°C)  |

| LM79 DATA | BK No. | CCT (Typ.)    | Input Watts (Typ.) | CRI | Minimum Rated Life (hrs.) 70% of initial lumens (L <sub>70</sub> ) |
|-----------|--------|---------------|--------------------|-----|--|
|           | e64    | 2700K         | 7.0                | 80  | 50,000   |
|           | e65    | 3000K         | 7.0                | 80  | 50,000   |
|           | e66    | 4000K         | 7.0                | 80  | 50,000   |
|           | e74    | Amber (590nm) | 7.0                | —   | 50,000   |

| L70 DATA | BK No. | CCT (Typ.)    | Input Watts (Typ.) | CRI | Minimum Rated Life (hrs.) 70% of initial lumens (L <sub>70</sub> ) |
|----------|--------|---------------|--------------------|-----|--|
|          | e64    | 2700K         | 7.0                | 80  | 50,000   |
|          | e65    | 3000K         | 7.0                | 80  | 50,000   |
|          | e66    | 4000K         | 7.0                | 80  | 50,000   |
|          | e74    | Amber (590nm) | 7.0                | —   | 50,000   |

| OPTICAL DATA | Beam Type    | Angle | e64 CRI | Visual Indicator |
|--------------|--------------|-------|---------|------------------|
|              | Narrow Spot  | 13°   | 6895    | Red Dot          |
|              | Spot         | 15°   | 5225    | Green Dot        |
|              | Medium Flood | 23°   | 1984    | Yellow Dot       |
|              | Wide Flood   | 31°   | 1300    | Blue Dot         |

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LSW Engineers

ARIZONA INCORPORATED

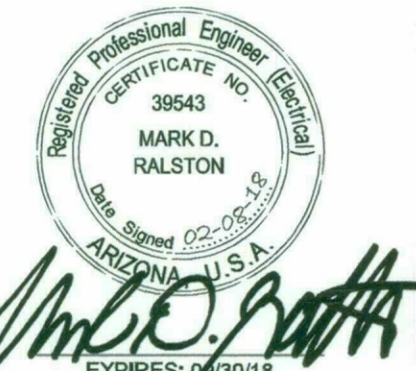
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Phoenix, Arizona 85021 Facsimile 602.336.3276

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City of Scottsdale  
Fire Station #616  
DRB Submittal



PROJECT NO: 16.11.00

DATE: FEBRUARY 09, 2018

REVISION SCHEDULE: \_\_\_\_\_

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# KIMLIGHTING

18" Wall Director® PicoEmitter® LED WD18-LED  
M\_wd18led\_spec.pdf

JOB \_\_\_\_\_ TYPE **SL4**  
NOTES \_\_\_\_\_ APPROVALS \_\_\_\_\_

## FEATURES

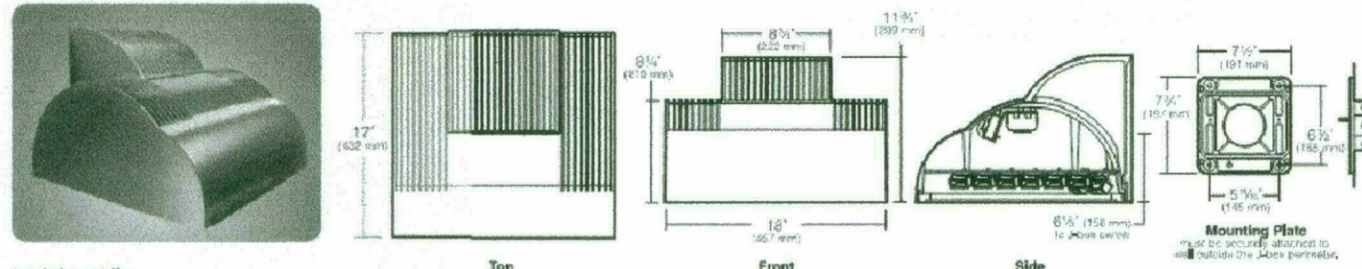
- Full Cutoff PicoEmitter technology
- Available in 580nm, 3000K, 4000K and 5000K standard CCT

- Type 2, 3, 4 distributions
- 0-10V dimming drivers standard
- Sealed optical chamber

## Certifications



## SPECIFICATIONS



Weight: 4.1 lbs

## ORDERING CODE

| Finish     | Electrical Module | Finish Finish      | Finish Finish               |
|------------|-------------------|--------------------|-----------------------------|
| 2 Type II  | 120V, 120W        | BL Black           | A35-7                       |
| 3 Type III | 2K 3500K          | DB Dark Bronze     | A30 130V Bottom PicoEmitter |
| 4 Type IV  | 3K 4000K          | GT Graphite        | A31 200V Bottom PicoEmitter |
|            | 4K 5000K          | LG Light Gray      | A32 240V Bottom PicoEmitter |
|            |                   | PS Platinum Silver | A33 270V Bottom PicoEmitter |
|            |                   | TT Titanium        | A34 400V Bottom PicoEmitter |
|            |                   | WH White           | A35 347V Bottom PicoEmitter |
|            |                   | CC Custom Color    |                             |

| Beam Options          | Beam Options | Beam Options | Beam Options | Beam Options | Beam Options |
|-----------------------|--------------|--------------|--------------|--------------|--------------|
| SP 120, 270, 347 Beam | LS 140 Beam  | WFO 180 Beam | WFO 180 Beam | WFO 180 Beam | WFO 180 Beam |
| DF 200, 240, 480 Beam |              |              |              |              |              |

Kim Lighting reserves the right to change specifications without notice.

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P 626.966.5666 | F 626.365.2695 | www.kimlighting.com | Rev. Oct. 11, 2017

# KIMLIGHTING

18" Wall Director® PicoEmitter® LED WD18-LED  
M\_wd18led\_spec.pdf

JOB \_\_\_\_\_ TYPE \_\_\_\_\_  
LUMINAIRE PERFORMANCE \_\_\_\_\_ APPROVALS \_\_\_\_\_

| Spectroradiometric               | 3000K Average | 4000K Average | 5000K Average |
|----------------------------------|---------------|---------------|---------------|
| Correlated Color Temp. (CCT) (K) | 2800K-3175K   | 3800K-4600K   | 4600K-5600K   |
| Color Rendering Index (CRI)      | >80           | >80           | >70           |
| Power Factor                     | >.90          | >.90          | >.90          |

| Electrical Drive Current | Volts - AC | Amps - AC | System Watts |
|--------------------------|------------|-----------|--------------|
|                          | 120        | 1.06      | 127          |
|                          | 208        | 0.61      | 127          |
|                          | 240        | 0.53      | 127          |
|                          | 277        | 0.46      | 127          |
|                          | 347        | 0.37      | 127          |
|                          | 480        | 0.26      | 127          |

| B.L.G. Rating (TM15) in Lumens when B = Backlight, U = Uplight, G = Glare | TYPE 2   | TYPE 3   | TYPE 3 NFO | TYPE 4   | TYPE 4 NFO |
|---|----------|----------|------------|----------|------------|
| 3000K   | 82 UO G2 | 82 UO G2 | N/A        | 81 UO G2 | 81 UO G2   |
| 4000K   | 83 UO G3 | 82 UO G2 | N/A        | 81 UO G2 | 81 UO G2   |
| 5000K   | 83 UO G3 | 82 UO G2 | N/A        | 81 UO G2 | 81 UO G2   |

| Absolute Lumens | TYPE 2 | TYPE 3 | TYPE 3 NFO | TYPE 4 | TYPE 4 NFO |
|-----------------|--------|--------|------------|--------|------------|
| 3000K           | 7293   | 6999   | N/A        | 7280   | 6021       |
| 4000K           | 3561   | 9188   | N/A        | 9544   | 7893       |
| 5000K           | 10070  | 9664   | N/A        | 10053  | 8314       |

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's B55 file library. For custom optics and color temperature configurations, contact factory.

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# KIMLIGHTING

18" Wall Director® PicoEmitter® LED WD18-LED  
M\_wd18led\_spec.pdf

JOB \_\_\_\_\_ TYPE \_\_\_\_\_  
SPECIFICATIONS \_\_\_\_\_ APPROVALS \_\_\_\_\_

| Projected Lumen Maintenance* | mA  | 100,000 hrs | Calculated L70 |
|------------------------------|-----|-------------|----------------|
|                              | 350 | 92.92%      | 554,069 hrs    |

| Electrical Drive Current | Volts - AC | Amps - AC | System Watts |
|--------------------------|------------|-----------|--------------|
|                          | 120        | 1.06      | 127          |
|                          | 208        | 0.61      | 127          |
|                          | 240        | 0.53      | 127          |
|                          | 277        | 0.46      | 127          |
|                          | 347        | 0.37      | 127          |
|                          | 480        | 0.26      | 127          |

| B.L.G. Rating (TM15) in Lumens when B = Backlight, U = Uplight, G = Glare | TYPE 2   | TYPE 3   | TYPE 3 NFO | TYPE 4   | TYPE 4 NFO |
|---|----------|----------|------------|----------|------------|
| 3000K   | 82 UO G2 | 82 UO G2 | N/A        | 81 UO G2 | 81 UO G2   |
| 4000K   | 83 UO G3 | 82 UO G2 | N/A        | 81 UO G2 | 81 UO G2   |
| 5000K   | 83 UO G3 | 82 UO G2 | N/A        | 81 UO G2 | 81 UO G2   |

| Absolute Lumens | TYPE 2 | TYPE 3 | TYPE 3 NFO | TYPE 4 | TYPE 4 NFO |
|-----------------|--------|--------|------------|--------|------------|
| 3000K           | 7293   | 6999   | N/A        | 7280   | 6021       |
| 4000K           | 3561   | 9188   | N/A        | 9544   | 7893       |
| 5000K           | 10070  | 9664   | N/A        | 10053  | 8314       |

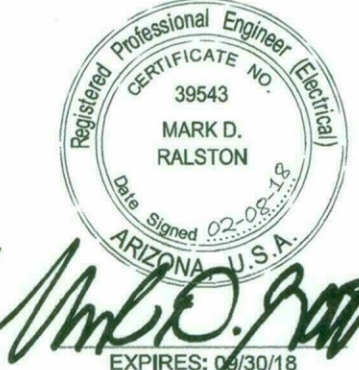
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**Breckenridge Architects**  
2470 s hardy road ste 2  
tempe arizona 85282  
480.659.3332

City of Scottsdale  
Fire Station #616  
DRB Submittal



PROJECT NO:  
16.11.00

DATE:  
FEBRUARY 09, 2018

| REVISION SCHEDULE | # | DATE | DESCRIPTION | ISSUED TO |
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EXTERIOR LIGHTING  
FIXTURE CUT SHEETS

**E-4**



# DESCRIPTION

The Arbor Rollard from Invue brings architectural style to the pedestrian level. The Arbor Rollard can be used along with other post top luminaires to provide a coordinated look sure to enhance any architectural setting. WaveStream™ LED optics present a pollution free image replacing visible glare, while providing high levels of pavement illumination.

# SPECIFICATION FEATURES

**Construction**  
Top Housing: Low copper, cast aluminum top maintains strength and precision while providing for rapid heat dissipation, vented resistance and superior dayform. Lower Housing: Heavy 0.188" wall seamless extruded aluminum 4" O.D. shaft attaches to base via stainless steel fasteners. BASE: Rugged corrosion resistant extruded aluminum base mounts to foundation with three anchor bolts. Base features a pliable 1/2" thick neoprene leveling pad fitted to the bottom of base allows for sealing against water and dirt ingress regardless of minor deviations in grade of concrete pad.

**Optics**  
Symmetric and asymmetric distributions are available using WaveStream LED optical technology. The optical waveguide is manufactured using precision injection molded acrylic for the ultimate level of glare control and visual comfort. Offered standard in 4000K (+/- 275K) CCT optional 3000K minimum 80 CRI.

**Electrical**  
LED (downward) are mounted to electrical tray for easy installation and maintenance for 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Offered standard with 0-10V dimming driver and Eaton's proprietary circuit module designed to withstand 10KV of transient line surge. Luminaires is suitable for ambient temperature applications from -30°C (-22°F) to 40°C (104°F) and IP68 rated against the ingress of dust and water.

**Controls**  
The Arbor Rollard options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. An integrated dimming and occupancy sensor is a standalone control option available in on/off (MSF) and bi-level dimming (MSFDM) operation. An optional handheld remote (ISHH) allows custom programming to suit all needs.

**Mounting**  
Luminaires is mounted to 3 x 1/2" anchor bolts on a 2-3/8" bolt circle with stand a 600 pound overturn moment. Order anchor bolts and installation template separately (ABAnchor).

**Finish**  
Eaton utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for Eaton to serve functionality as well as decorative. Good film appearance combined with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard.

**Warranty**  
Five-year warranty.

SL1

Invue

| Catalog #   | ABB-B2-LED-42-D1-A-GC-6030-ABA | Type |
|-------------|--------------------------------|------|
| Project     | COS #616                       | SL1  |
| Comments    | SITE BOLLARD                   | Date |
| Prepared by | LSW ENGINEERS, AZ              |      |



ABB ARBOR BOLLARD

PATHWAY LUMINAIRE

# CERTIFICATION DATA

UL-Listed  
IP68 Housing  
800 9001  
RoHS

**ENERGY DATA**  
Electronic LED Driver  
+0.3 Power Factor  
+0.9% Total Harmonic Distortion  
120-277V 60/50Hz, 347V 60Hz, 480V 60Hz  
-30°C Ambient Temperature  
40°C Ambient Temperature Rating

Approximate Net Weight:  
18.25 lbs. (8.29 kg.)

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# POWER AND LUMENS

| Lumen/Distribution        | B1 Symmetric | B2 Symmetric | B3 Asymmetric | B4 Asymmetric |
|---------------------------|--------------|--------------|---------------|---------------|
| Drive Current             | 16W          | 32W          | 11W           | 22W           |
| Power/Wattage (Watts)     | 16W          | 32W          | 11W           | 22W           |
| Input Current (mA) @ 120V | 140          | 270          | 100           | 200           |
| Input Current (mA) @ 208V | 80           | 160          | 60            | 120           |
| Input Current (mA) @ 240V | 70           | 140          | 50            | 100           |
| Input Current (mA) @ 277V | 60           | 120          | 40            | 80            |
| Power/Wattage (Watt)      | 16W          | 32W          | 11W           | 22W           |
| Input Current (mA) @ 347V | 60           | 110          | 40            | 80            |
| Input Current (mA) @ 480V | 180          | 330          | 120           | 240           |
| Optics                    |              |              |               |               |
| Lumens                    | 717          | 1,276        | 472           | 888           |
| Beam Rating               | B1-LR-G1     | B1-LR-G2     | B1-LR-G1      | B1-LR-G2      |

# LUMEN MAINTENANCE

| Ambient Temperature | TM-21 Lumen Maintenance (60,000 Hours) | Calculated L70 (Hours) |
|---------------------|--|------------------------|
| 25°C                | >84%                                   | >350,000               |
| 40°C                | >87%                                   | >350,000               |
| 50°C                | >90%                                   | >70,000                |

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest settings.

# COLOR TEMPERATURE

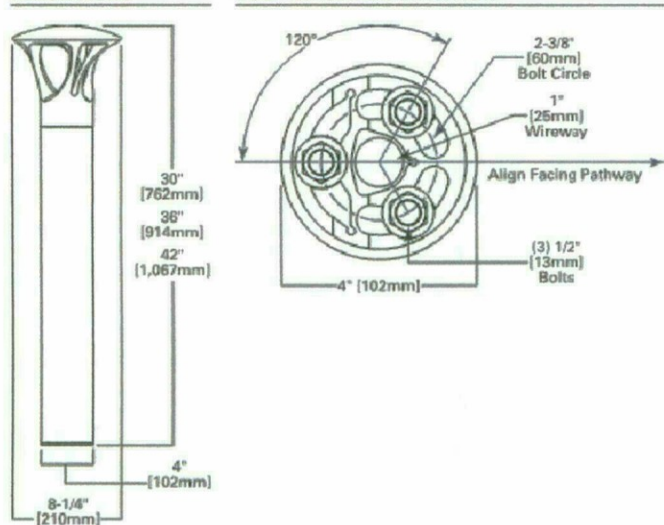
| Color Temperature (CCT) | CRI (Minimum) | Multiplier (Hours) |
|-------------------------|---------------|--------------------|
| 4000                    | 70            | 1.00               |
| 2000                    | 80            | 0.87               |

ABB ARBOR BOLLARD

# LUMEN MULTIPLIER

| Ambient Temperature | Lumen Multiplier |
|---------------------|------------------|
| 0 °C                | 1.02             |
| 10 °C               | 1.01             |
| 25 °C               | 1.00             |
| 40 °C               | 0.97             |

# DIMENSIONS



FAT-N  
Power Systems Worldwide

FAT-N  
Power Systems Worldwide

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SL2, SL3

| TRP LED ARCHITECTURAL WALLPACK | Cat.# | Job | Type | Approves |
|--------------------------------|-------|-----|------|----------|
|                                |       |     |      |          |

# SPECIFICATIONS

**Applications:**  
Architectural wallpack in stylish Trapedral shape with rounded contours to accentuate building architecture. Provides excellent illumination in energy-saving LED systems.

**Construction:**  
Back box accessory available for surface conduit application.  
Die-cast aluminum housing and door.  
Seven powder coat standard finishes, plus custom color options.

**LEDs:**  
30 high power LEDs deliver up to 5,062 lumens.  
Up to 105 lumens per watt.  
Variety of LED distribution patterns - Type II, III, and IV (described below).

**3000K - 80 CRI, 4000K - 70 CRI, and 5000K - 67 CRI, CCT nominal.**

**Operating Temperature:**  
-40°C/-40°F to 40°C/104°F for 350mA.  
-30°C/-22°F to 40°C/104°F for 500mA.

**Electrical:**  
Two driver options: 34w at 350mA (1 driver) and 34w at 500mA (1 driver).  
120-277VAC, 50/60Hz.

**Electrical (Cont.):**  
Power factor > 0.95.  
THD (Total Harmonic Distortion) < 20%.  
10 KA, 10 KA, 10 KA (20) joules surge suppressor.

**Controls:**  
Drivers use 0-10V dimming standard. Protocol and occupancy sensor options available for complete on/off and dimming control.

**UL1599 listed for use in wet locations.**  
4K and 5K models meet DesignLights Consortium (DLC) qualifications, consult DLC website for more details: <http://www.designlightsconsortium.org>.

**TRP-3BU Egress Wallpack:**  
Designed to meet strict 11c minimum requirements. At 120" mounting height 11c covers 1x10 ft area, well beyond the 10x10 ft standard. No light, external heat output, 120W or 277V only. Rated -30°C to 35°C.

**Warranty:**  
For more information visit: <http://www.hubbell.com/lighting/resources>

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# ACCESSORIES - Order separately

# External hardware

**SCP-REMOTE** Remote control for SCP option. Order at least one per project to program and control.

**BB-GE0-XX** Back box with 4 - 1/2" threaded conduit holes, specify finish, eg. Dark Bronze - DB.

\* Mount one (minimum) in one (minimum) to program dimming settings. 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings. 120W or 277V only.

\* Specify finish, eg. Dark Bronze - DB.

# BB-GE0-XX

10.4 mm 1" 5 mm

Future gasket 4 - 1/2" conduit entries Wall gasket

BB-GE0-XX - Mounted to luminaires

BB-GE0-XX - Mounted to luminaires

BB-GE0-XX - Mounted to luminaires

BB-GE0-XX - Mounted to luminaires

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BB-GE0-XX - Mounted to luminaires

BB-GE0-XX - Mounted to luminaires

# PERFORMANCE DATA

| # OF LUMENS | DRIVE CURRENT | SYSTEM TYPE | DIST. TYPE | 3K (3000K nominal, 67 CRI) |     | 4K (4000K nominal, 70 CRI) |     | 5K (5000K nominal, 80 CRI) |     |
|-------------|---------------|-------------|------------|----------------------------|-----|----------------------------|-----|----------------------------|-----|
|             |               |             |            | LUMENS                     | LPW | LUMENS                     | LPW | LUMENS                     | LPW |
| 30          | 350mA         | 34w         | 1          | 3,243                      | 104 | 3,110                      | 91  | 2,918                      | 71  |
|             |               |             | 2          | 3,243                      | 104 | 3,110                      | 91  | 2,918                      | 71  |
|             |               |             | 3          | 3,243                      | 104 | 3,110                      | 91  | 2,918                      | 71  |
|             |               |             | 4          | 3,243                      | 104 | 3,110                      | 91  | 2,918                      | 71  |
| 30          | 500mA         | 50w         | 1          | 4,557                      | 91  | 4,469                      | 89  | 4,292                      | 85  |
|             |               |             | 2          | 4,557                      | 91  | 4,469                      | 89  | 4,292                      | 85  |
|             |               |             | 3          | 4,557                      | 91  | 4,469                      | 89  | 4,292                      | 85  |
|             |               |             | 4          | 4,557                      | 91  | 4,469                      | 89  | 4,292                      | 85  |

Lumen values are based on probable field performance at a MAP (maximum average power) in accordance with IESNA LM-79-02. Data is considered to be representative of the individual components. Please consult IES for more information.

# ELECTRICAL DATA

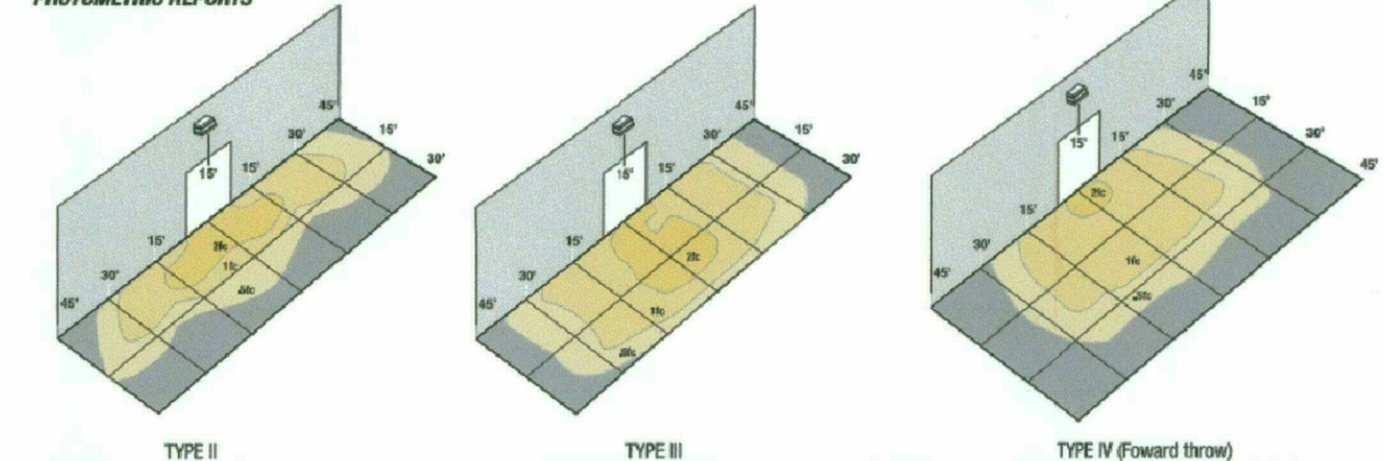
| # OF LUMENS | NUMBER OF DRIVERS | DRIVE CURRENT (mA) | INPUT VOLTAGE (V) | SYSTEM POWER (W) | CURRENT (Amps) |
|-------------|-------------------|--------------------|-------------------|------------------|----------------|
| 30          | 1                 | 350mA              | 120               | 34               | 0.29           |
|             |                   | 500mA              | 120               | 50               | 0.42           |
| 30          | 1                 | 350mA              | 277               | 34               | 0.18           |
|             |                   | 500mA              | 277               | 50               | 0.18           |

# PROJECTED LUMEN MAINTENANCE

| Ambient Temp | OPERATING HOURS |        |        |         | L70 (hours) |
|--------------|-----------------|--------|--------|---------|-------------|
|              | 0               | 25,000 | 50,000 | 100,000 |             |
| 25°C / 77°F  | 1.00            | 0.98   | 0.97   | 0.96    | >774,000    |
| 40°C / 104°F | 0.99            | 0.96   | 0.95   | 0.93    | >625,000    |

1. Data 21-80, 7000K, 40°C to 120,000hrs. Data references the extrapolated performance projections for the TRP based on 40°C ambient, based on 70,000 hours of L70 testing per IESNA LM-79-02.

# PHOTOMETRIC REPORTS



TYPE II TYPE III TYPE IV (Forward throw)

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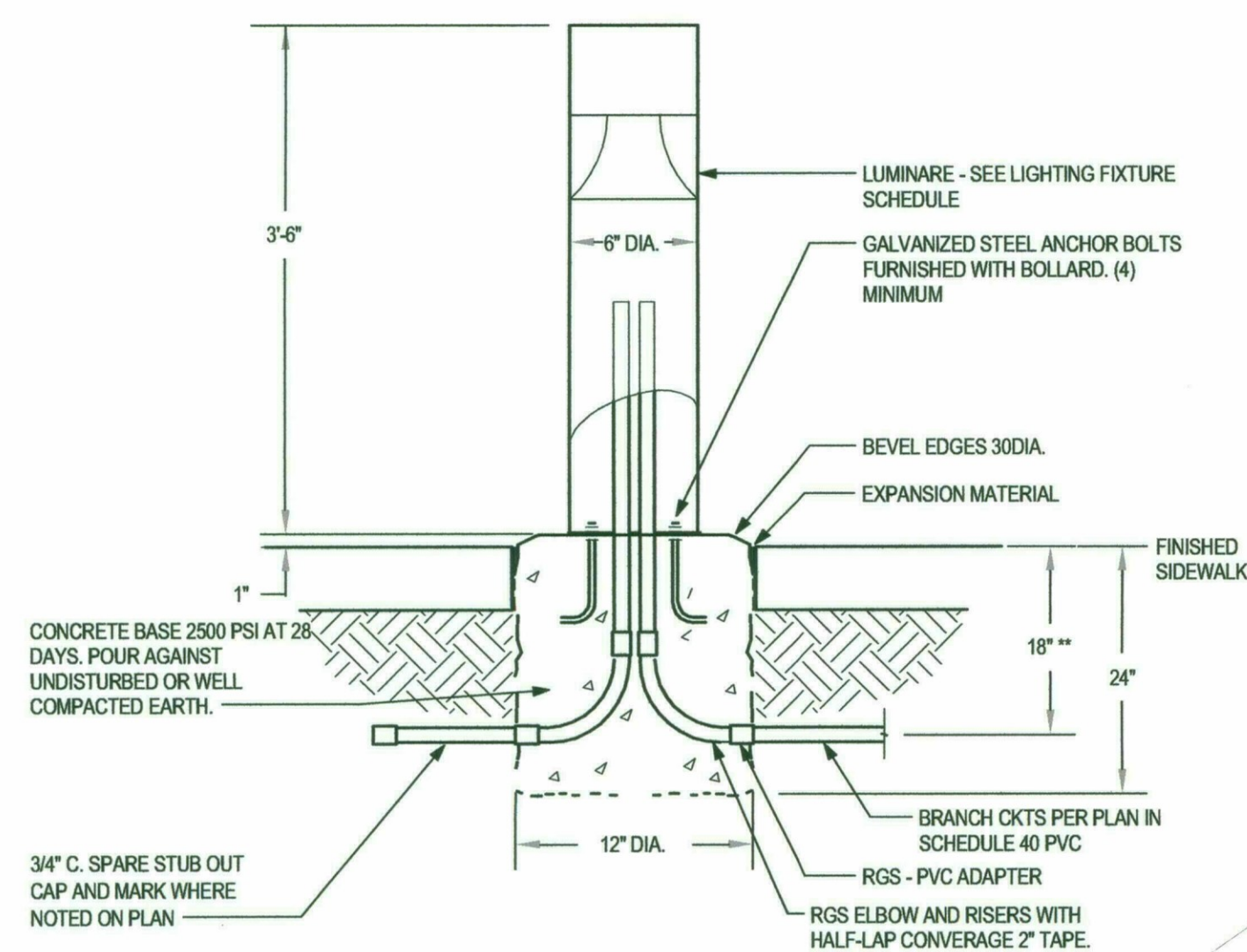
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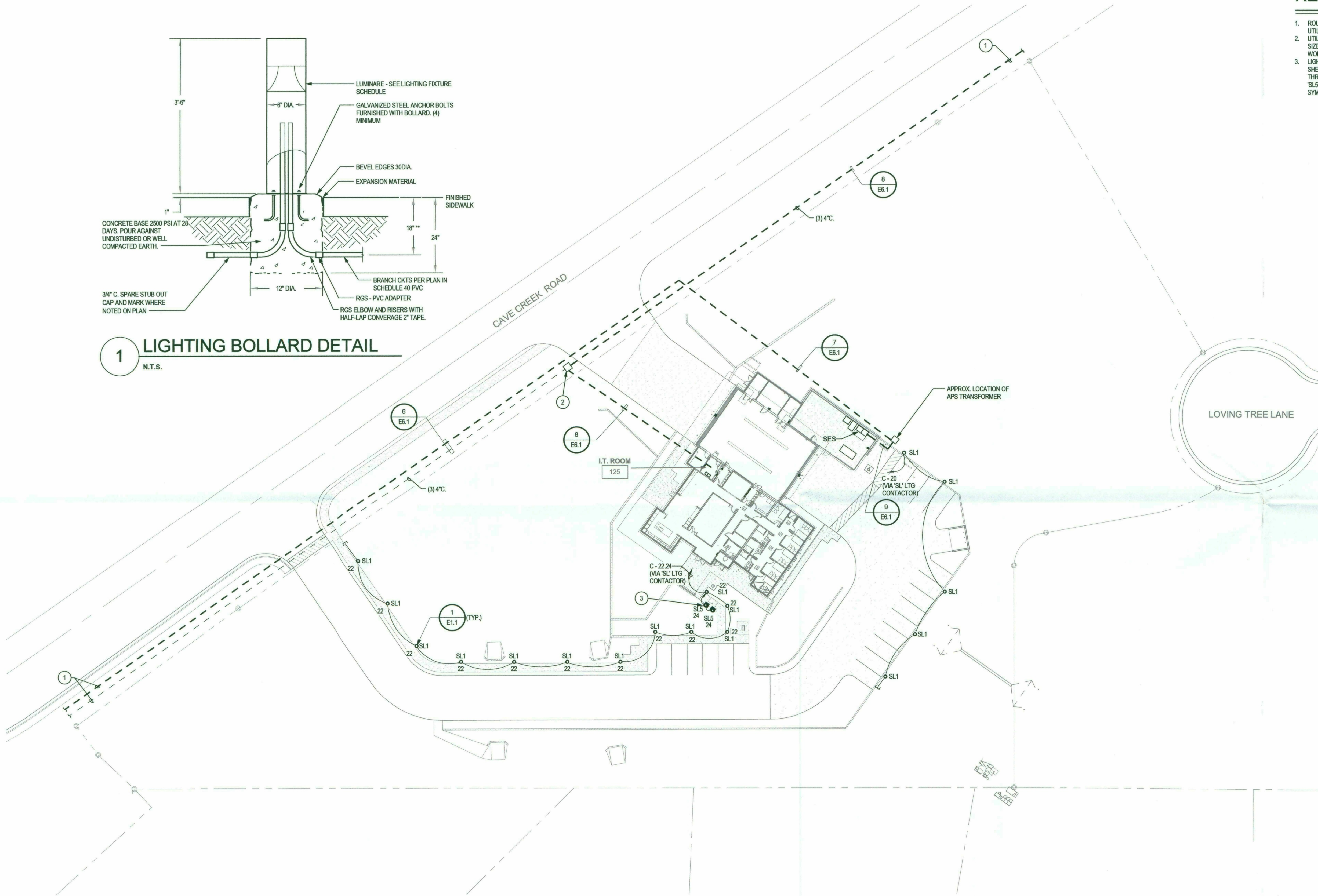




**1 LIGHTING BOLLARD DETAIL**  
N.T.S.

# KEYED NOTES (E)

1. ROUTE TO UTILITY POINT OF CONNECTION. VERIFY WITH FINAL UTILITY REQUIREMENTS.
2. UTILITY COMMUNICATIONS BELOW GRADE PULL BOX. VERIFY SIZE AND INSTALLATION REQUIREMENTS WITH UTILITY PRIOR TO WORK BEING DONE.
3. LIGHTING FIXTURE TYPE 'SL5' REQUIRES A REMOTE DRIVER - SEE SHEET E2.1 FOR LOCATION. ROUTE CIRCUIT C-24 AS REQUIRED THRU 'SL' AND REMOTE DRIVERS TO FEED LIGHTING FIXTURE 'SL5'. PLACE FIXTURE OUTSIDE SIDEWALK PATHWAY, SYMMETRICALLY ON EACH SIDE OF FLAGPOLE.



**ELECTRICAL SITE PLAN**  
NORTH 1" = 30'-0"

## POWER COMPANY CONTACT:

SANDY LANGFITT - APS CUSTOMER - EAST  
(480) 435-6242 MOBILE, Sandy.Langfitt@aps.com

## COX COMMUNICATIONS CONTACT:

KRISTIN CATHERWOOD - NSC CUSTOMER CARE  
(866) 272-5777, KRISTIN.CATHERWOOD@COX.COM

## CENTURY LINK CONTACT:

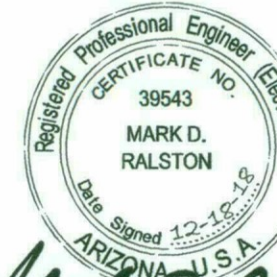
DEVELOPER CONTACT GROUP  
(800) 526-3557

**LSW Engineers**  
ARIZONA INCORPORATED  
2333 West Northern Avenue Telephone 602.249.1320  
Phoenix, Arizona 85021 Facsimile 602.336.3276  
www.lswphx.com Project No. 2016-036.000  
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**Breckenridge**  
g r o u p  
a r c h i t e c t s  
p l a n n e r s

2740 s hardy road ste 2  
tempe arizona 85282  
480.659.3332

City of Scottsdale  
Fire Station #616



PROJECT NO:

16.11.00

DATE:

SEPTEMBER 2018

REVISION SCHEDULE:

| # | DATE | DESCRIPTION | ISSUED TO |
|---|------|-------------|-----------|
|   |      |             |           |
|   |      |             |           |
|   |      |             |           |
|   |      |             |           |
|   |      |             |           |
|   |      |             |           |
|   |      |             |           |

DRAWN BY: LSW

CHECKED BY: MDR

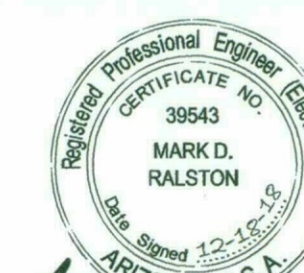
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ELECTRICAL SITE PLAN

**E1.1**





*Mark D. Ralston*

|                    |                |             |           |
|--------------------|----------------|-------------|-----------|
| PROJECT NO.        | 16.11.00       |             |           |
| DATE:              | SEPTEMBER 2018 |             |           |
| REVISION SCHEDULE: |                |             |           |
| #                  | DATE           | DESCRIPTION | ISSUED TO |
|                    |                |             |           |
|                    |                |             |           |
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|                    |                |             |           |
|                    |                |             |           |
|                    |                |             |           |
|                    |                |             |           |
|                    |                |             |           |
| DRAWN BY: AEL      |                |             |           |
| CHECKED BY: MDR    |                |             |           |

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| Calculation Summary     |             |       |      |      |     |  |
|-------------------------|-------------|-------|------|------|-----|--|
| Label                   | CalcType    | Units | Avg  | Max  | Min |  |
| Property Line 6ft Above | Illuminance | Fc    | 0.00 | 0.0  | 0.0 |  |
| Site                    | Illuminance | Fc    | 0.36 | 10.0 | 0.0 |  |

| Luminaire Schedule |     |       |             |       |   |             |  |           |            |
|--------------------|-----|-------|-------------|-------|---|-------------|--|-----------|------------|
| Symbol             | Qty | Label | Arrangement | LLF   | Description                                   | Lum. Lumens | [MANUFAC]                              | IES Class | BUG Rating |
| □                  | 7   | SL2   | SINGLE      | 1.000 | TRP-30L3K-035-3                               | 3192        | SPAULDING LIGHTING                     | Type III  | B1-U0-G1   |
| □                  | 2   | SL4   | SINGLE      | 1.000 | WD1804E35-120L3K                              | 7280        | KIM LIGHTING                           | Type IV   | B1-U0-G2   |
| □                  | 2   | SL3   | SINGLE      | 1.000 | TRP-30L3K-053-4                               | 4375        | SPAULDING LIGHTING                     | Type IV   | B1-U0-G2   |
| ○                  | 17  | SL1   | SINGLE      | 1.000 | ABB-B2-LED-D1-A                               | 848         | EATON - INVUE (FORMER COOPER LIGHTING) | Type III  | B1-U1-G1   |
| ●                  | 2   | SL5   | SINGLE      | 1.000 | NS-LED-666-NSP-12, AR-LED-TR-666-NSP-12, AR-L | 526         | B-K LIGHTING, INC.                     | N.A.      | N.A.       |



1 LIGHTING PHOTOMETRIC SITE PLAN  
N.T.S.