

# PINAL COUNTY ADMINISTRATIVE COMPLEX REPAIR PROJECT FLORENCE, ARIZONA

## BOARD OF SUPERVISORS

**PETE RIOS** - DISTRICT 1  
**CHERYL CHASE** - DISTRICT 2  
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**ANTHONY SMITH, CHAIRMAN** - DISTRICT 4  
**TODD HOUSE, VICE CHAIRMAN** - DISTRICT 5

## ASSISTANT COUNTY MANAGERS

LEO LEW

## COUNTY ENGINEER

SCOTT BENDER, P.E. - PUBLIC WORKS DIRECTOR

## PROJECT MANAGER / CONTACT

**ARCHIE R. CARREON** TEL: 520-866-6411 / 520-866-6416  
 EMAIL: archie.carreon@pinalcounty.gov

## CONSULTANTS

SWAN ARCHITECTS . . . . . ARCHITECT  
 O'NEIL ENGINEERING . . . . . CIVIL ENGINEER  
 CAMPBELL COLLABORATIVE . . . . . LANDSCAPE ARCHITECT  
 MWE ENGINEERING . . . . . ELECTRICAL ENGINEER

## COUNTY MANAGER

GREGORY STANLEY, P.E.

## PROJECT DATA

**PROJECT DESCRIPTION:** IMPROVEMENTS TO PINAL COUNTY ADMINISTRATIVE PARKING LOT INCLUDING SIGNAGE, LANDSCAPING, ACCESSIBILITY IMPROVEMENTS, AND ASPHALT RESURFACING.

**ADDRESS:** 31 N. PINAL ST. FLORENCE, ARIZONA 85132

**OWNER CONTACT:** ARCHIE CARREON, P.E. TEL: 520-866-6411

**ARCHITECT:** SWAN ARCHITECTS, INC. JEFF SWAN, AIA TEL: 602-264-3083

**BUILDING CODES:** 2006 INTERNATIONAL BUILDING CODE  
 2006 INTERNATIONAL ENERGY CONSERVATION CODE  
 2006 INTERNATIONAL MECHANICAL CODE  
 2005 INTERNATIONAL PLUMBING CODE  
 2005 NATIONAL ELECTRIC CODE  
 2006 INTERNATIONAL FIRE CODE  
 2003 INTERNATIONAL ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES GUIDE

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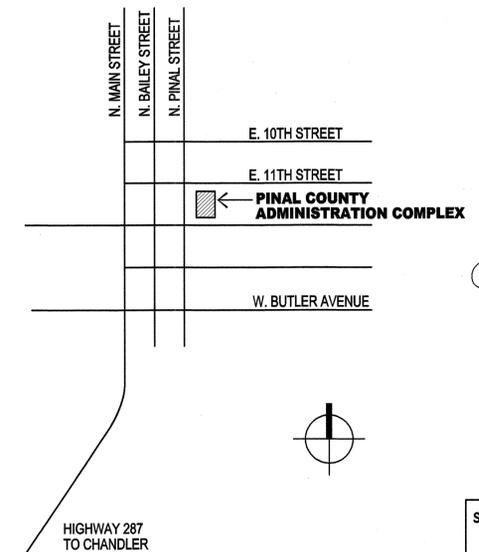
## SYMBOLS LIST

-  DETAIL NUMBER SHEET NUMBER WHERE DETAIL APPEARS
-  SECTION NUMBER SHEET NUMBER WHERE SECTION APPEARS
-  ELEVATION NUMBER SHEET NUMBER WHERE ELEVATION APPEARS
-  DIMENSION ABOVE FINISH FLOOR
-  SPECIFIC DESCRIPTIVE NOTE NUMBER
-  ROOM NUMBER
-  DOOR NUMBER
-  WINDOW TYPE

## PARKING CALCULATIONS

<b>PARKING REQUIRED</b>	
1891 COURTHOUSE	83 SPACES
BUILDING "A"	67 SPACES
BUILDING "C"	7 SPACES
BUILDING "D"	67 SPACES
BUILDING "E"	100 SPACES
BUILDING "F"	147 SPACES
<b>TOTAL</b>	<b>471 SPACES</b>
STANDARD PARKING SPACES REQUIRED = <b>462 SPACES</b>	
ACCESSIBLE PARKING SPACES REQUIRED = <b>7 SPACES</b>	
VAN ACCESSIBLE PARKING SPACES REQUIRED = <b>2 SPACES</b>	
<b>PARKING PROVIDED</b>	
STANDARD PARKING SPACES =	<b>294 SPACES</b>
ACCESSIBLE STANDARD PARKING SPACES =	<b>13 SPACES</b>
VAN ACCESSIBLE PARKING SPACES =	<b>2 SPACES</b>
LOADING ZONES	<b>3 SPACES</b>
<b>SUB TOTAL</b>	<b>312 SPACES</b>
EXISTING NORTH PARKING LOT SPACES	<b>120 SPACES</b>
<b>TOTAL PARKING</b>	<b>432 SPACES</b>

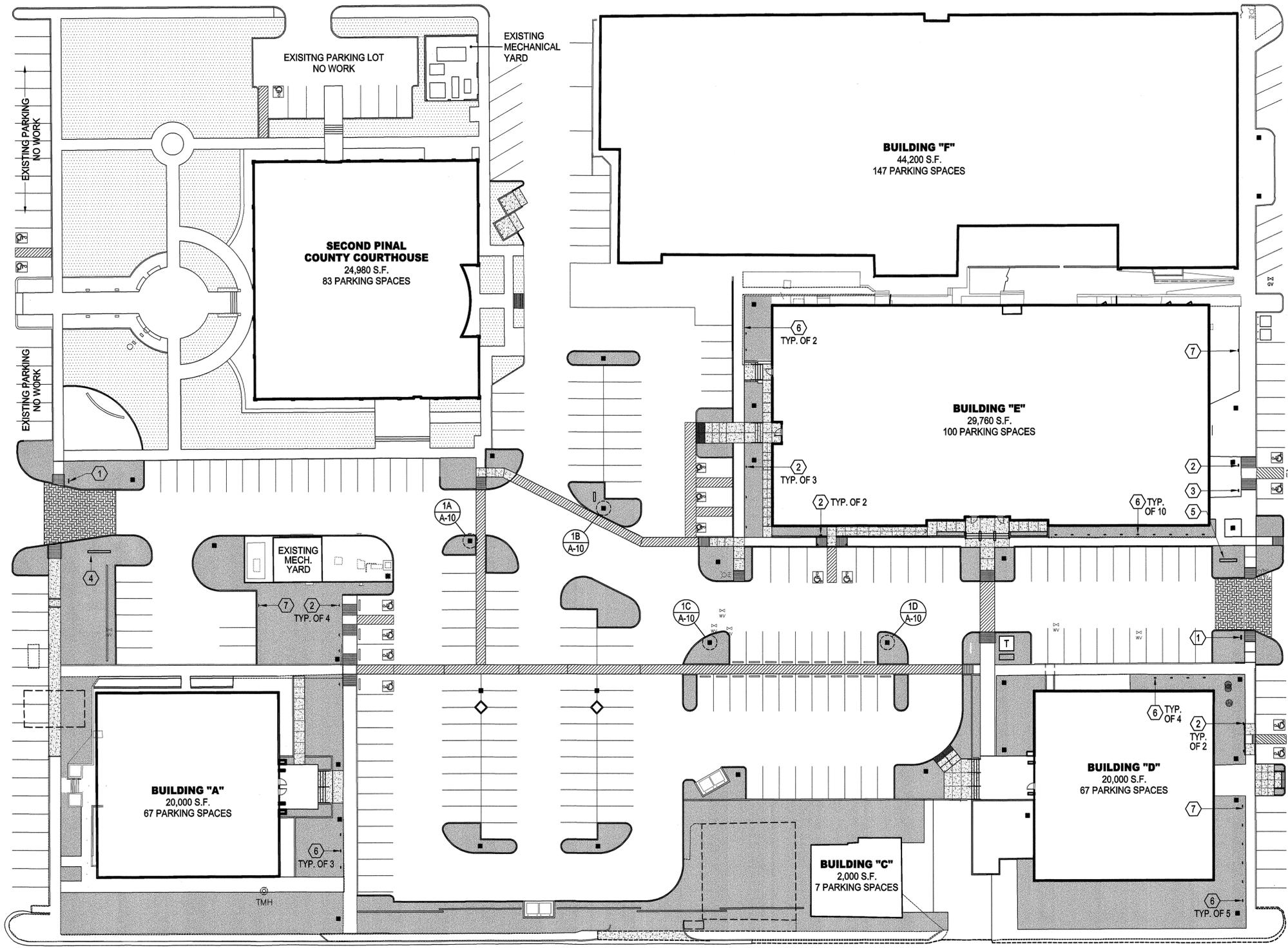
## VICINITY MAP



sheet:  
**A-1**



NORTH PARKING LOT  
120 SPACES



**SITE SIGNAGE PLAN**  
SCALE: 1:30

**SPECIFIC DESCRIPTIVE ITEMS**

1. PROVIDE STOP SIGN IN ACCORDANCE WITH PINAL COUNTY AND TOWN OF FLORENCE ORDINANCES.
2. PROVIDE ACCESSIBLE PARKING SIGN IN ACCORDANCE WITH PINAL COUNTY ORDINANCES.
3. PROVIDE VAN ACCESSIBLE PARKING SIGN IN ACCORDANCE WITH PINAL COUNTY ORDINANCES.
4. PROVIDE LARGE MONUMENT SIGN. REFER TO DETAILS ON SHEET A-9.
5. PROVIDE SMALL MONUMENT SIGN. REFER TO DETAILS ON SHEET A-9.
6. PROVIDE "RESERVED EMPLOYEE PARKING" SIGN.
7. PROVIDE "LOADING ZONE" SIGN.

**LEGEND**

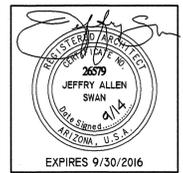
- INDICATES NEW SIDEWALK, STEPS AND RAMPS
- INDICATES AREA TO BE LANDSCAPED
- INDICATES LANDSCAPE AREA TO REMAIN - NO WORK.
- INDICATES NEW LIGHT POLE AND FIXTURE



**swan**  
architects, inc.

architecture  
planning  
historic preservation

833 N. 5th Ave.  
Phoenix, AZ  
85003  
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Fax: 602-274-7658



drawing: SITE SIGNAGE PLAN

project: **PINAL COUNTY  
ADMINISTRATIVE COMPLEX IMPROVEMENTS  
FLORENCE, ARIZONA**

date: August 2014  
drawn: J.A.S.  
checked: J.A.S.  
rev:

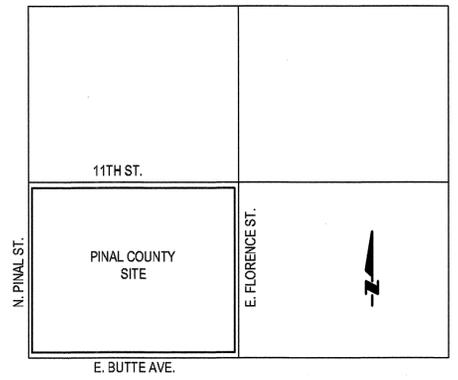
project number(s):

sheet:

**A-3**

# Pinal County ADMINISTRATION COMPLEX PARKING

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C-7	DETAIL SHEET



**VICINITY MAP**  
N.T.S.

**ENGINEER/LAND SURVEYOR**

O'NEILL ENGINEERING, LLC  
2001 W. CAMELBACK ROAD, SUITE 200  
PHOENIX, ARIZONA 85015  
CONTACT: JEFF MCINTOSH, PE  
PHONE: (602) 242-0020  
FAX: (602) 242-5722

**ARCHITECT**

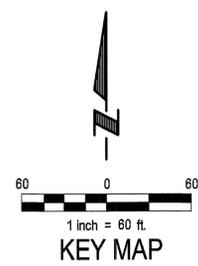
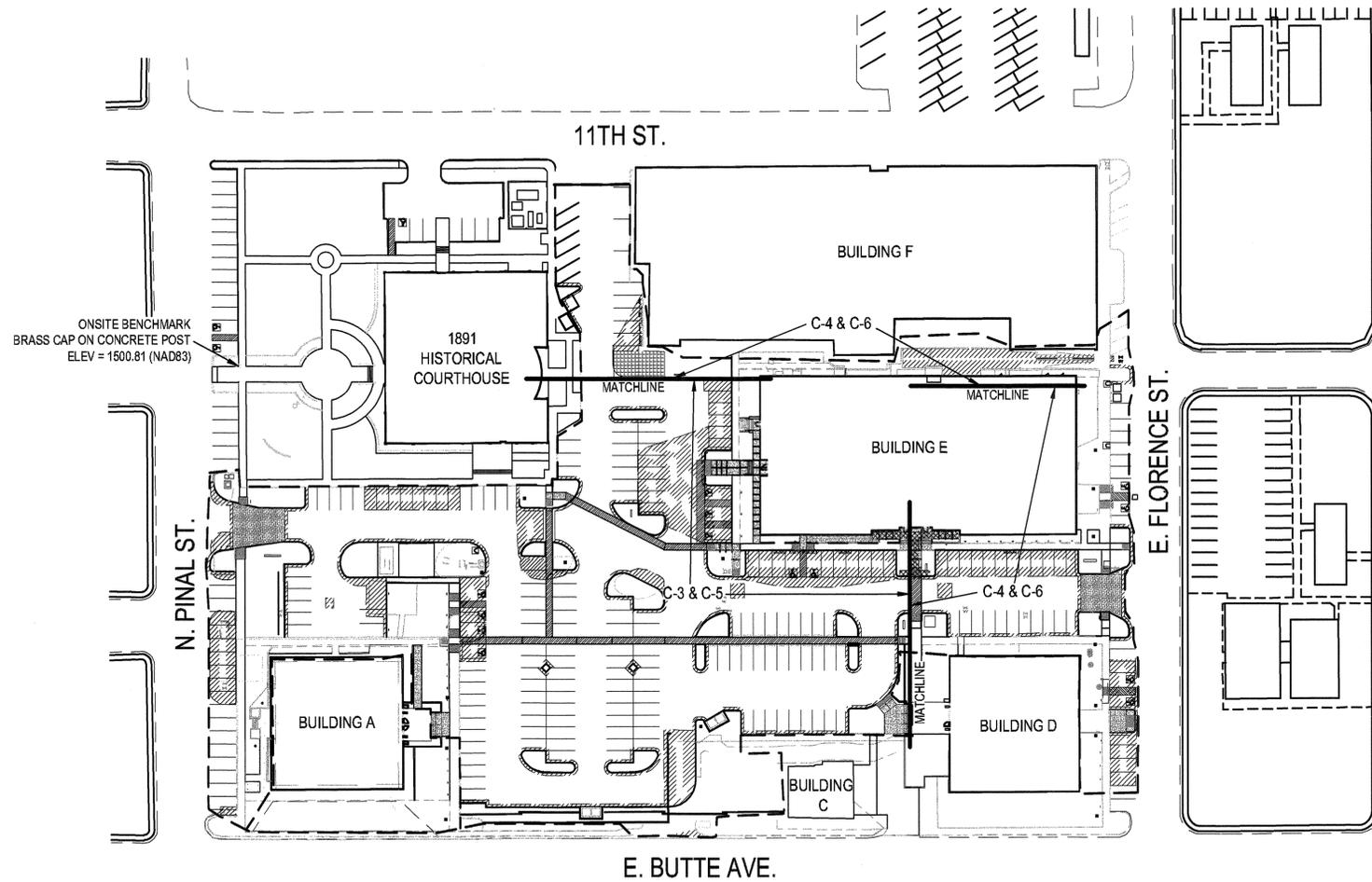
SWAN ARCHITECTS, INC.  
833 N. 5TH AVE.  
PHOENIX, AZ 85003  
CONTACT: JEFF SWAN  
PHONE: (602) 284-3083  
FAX: (602) 274-7658

**LEGAL DESCRIPTION**

A.P.N. 200-49-047A  
FLORENCE TOWNSITE: ALL OF BLKS 183 184 205  
206 208 & N1/2 OF BLK 207 & ABAND 13TH ST &  
ABAND SCHOOL ST & N1/2 OF ABAND UNIVERSITY  
NEXT BLK 207 & 208

**BENCHMARK**

BRASS CAP ON CONCRETE POST LOCATED AT THE NORTHEAST CORNER OF THE  
SIDEWALK ENTRANCE TO THE ROUND-A-BOUT TO THE HISTORIC COURTHOUSE.  
NORTHING 739,757.83 IFT  
EASTING 862,588.04 IFT  
ELEVATION = 1500.81 (NAD83)  
ELEVATION NOTE:  
SPOT ELEVATIONS TRUNCATED XX00.00 FOR CLARITY PURPOSES



PINAL COUNTY ENGINEER APPROVAL BLOCK.  
APPROVED BY: \_\_\_\_\_

PINAL COUNTY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
PINAL COUNTY, DEPARTMENT OF PUBLIC WORKS

APPROVAL EXPIRES: \_\_\_\_\_ DATE \_\_\_\_\_

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON  
WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/LAND SURVEYOR \_\_\_\_\_ DATE \_\_\_\_\_

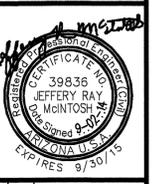
REGISTRATION NUMBER \_\_\_\_\_

**O'NEILL ENGINEERING, L.L.C.**  
Engineering • Planning • Surveying • SUE  
2001 West Camelback Road, Suite 200, Phoenix, AZ 85015  
Phone: 602.242.0020 Fax: 602.242.5722  
www.oneilleng.com



PINAL COUNTY  
ADMINISTRATION COMPLEX PARKING  
REHABILITATION  
FLORENCE, ARIZONA

CIVIL COVER SHEET



Revision	Description
1	DATE

# C-1

**ENGINEERING NOTES**

- ALL MATERIALS, CONSTRUCTION & METHODS SHALL CONFORM TO THE LATEST EDITION M.A.G. STANDARD SPECIFICATIONS AND PINAL COUNTY SUBDIVISION REGULATIONS & REQUIREMENTS AND MINIMUM STANDARDS FOR SUBDIVISION STREET PAVING.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN EXCAVATION AND DIRT MOVING PERMIT FROM THE PINAL COUNTY AND THE EPA, AND FOR COMPLYING WITH ITS REQUIREMENTS FOR DUST CONTROL.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL ABANDONED (RETIRED) UTILITIES THAT INTERFERE WITH THIS CONSTRUCTION PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF ALL UTILITIES, POWER POLES, ETC.
- CONTRACTORS SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL ORDINANCES INCLUDING PINAL COUNTY SPECIFICATIONS AND M.A.G. SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR EPA NPDES PERMIT OR OTHER APPLICABLE PERMITS AND REQUIREMENTS BY FEDERAL REGULATORY AGENCIES; INCLUDING, BUT NOT LIMITED TO, THE U.S. ARMY CORPS OF ENGINEERS.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AT HIS OWN EXPENSE ALL PERMITS REQUIRED FOR THIS PROJECT FROM THE APPROPRIATE AGENCIES.
- CONTRACTOR TO ARRANGE FOR IRRIGATION DRY-UPS, RESETS AND REMOVALS BY OTHERS.
- CLEAR AND GRUB SITE PRIOR TO GRADING.
- CONTRACTOR SHALL OBTAIN A PINAL COUNTY RIGHT OF WAY USE PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN THE COUNTY RIGHT OF WAY.
- DRYWELL REGISTRATION WITH ADEQ IS TO BE COMPLETED BY DRYWELL CONTRACTOR.
- DRYWELL CONTRACTOR TO PROVIDE CERTIFIED DRYWELL PERFORMANCE TEST RESULTS.
- EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE RECORDS. CONTRACTOR SHALL LOCATE AND TEST PIT IN THE AREA OF KNOWN EXISTING UTILITIES TO VERIFY SIZE, LOCATION, AND TYPE PRIOR TO PERFORMING ANY WORK. CONTRACTOR SHALL ADEQUATELY PROTECT AND MAINTAIN ALL EXISTING UTILITIES. ANY UTILITY (WHETHER SHOWN OR NOT) DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY. ANY EXISTING FIRE HYDRANTS, MANHOLES, ETC., TO BE RAISED OR LOWERED SHALL BE DONE SO BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING FENCES, DRIVEWAYS, ETC., DAMAGED OR REMOVED BY HIM DURING CONSTRUCTION. ALL OFF-SITE DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION IMMEDIATELY.
- ARIZONA CIVIL ENGINEERING LLC. IS NOT RESPONSIBLE FOR THE CONTRACTOR'S UTILIZATION OF MEN, MATERIALS, EQUIPMENT OR SAFETY MEASURES IN PERFORMANCE OF ANY WORK FOR THIS CONSTRUCTION. THE CONTRACTOR SHALL FURNISH ALL OF THESE ITEMS AND PERFORM ALL WORK, INCLUDING RESTORATION FOR THE COMPLETED INSTALLATION OF THE UTILITY SYSTEMS AND ALL OTHER IMPROVEMENTS SHOWN OR IMPLIED, AS NECESSARY FOR THE COMPLETED FACILITY READY FOR USE. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PERFORMING THE WORK CORRECTLY AND IN CONFORMANCE WITH ALL CODE REQUIREMENTS.
- WHEN REMOVING EXISTING CURB, GUTTER, OR SIDEWALK, REMOVE TO NEAREST JOINT.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
- WORK PERFORMED WITHOUT THE APPROVAL OF THE COUNTY ENGINEER AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS.
- THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOB SITE FOR MAINTENANCE OF DUST CONTROL AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCIES.
- THE QUANTITIES SHOWN ARE AN ESTIMATE BY THE ENGINEER. THE CONTRACTOR SHALL MAKE HIS OWN INDEPENDENT ESTIMATE OF QUANTITIES AND BASE HIS BID THEREON.
- THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT 283-1100.
- ALL OBSTRUCTIONS WITHIN THE RIGHT OF WAY SHALL BE REMOVED PRIOR TO ANY CONSTRUCTION.
- ALL TEMPORARY FACILITIES SHALL BE REMOVED PRIOR TO FINAL ACCEPTANCE BY OWNER.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE CHIP SEAL COAT FOR ALL NEWLY CONSTRUCTED STREETS IN ACCORDANCE WITH M.A.G. SPECIFICATIONS, SEC. 330.
- CONTRACTOR SHALL NOTIFY DEVELOPER AT LEAST 48 HOURS IN ADVANCE FOR ANY STAKING OR RESTAKING REQUIRED.
- THE ENGINEER DOES NOT ASSUME ANY LIABILITY FOR ERRORS OF LINE AND/OR GRADE ON ANY STAKING WHICH HAS BEEN DISTURBED IN ANY WAY, NOR DOES THE ENGINEER ASSUME ANY LIABILITY FOR ERRORS OF LINE AND/OR GRADE ON ANY STAKING THAT HAS BEEN IN PLACE FOR A PERIOD OF 24 HOURS OR MORE WITHOUT THE COMMENCEMENT OF CONSTRUCTION FOR WHICH IT WAS SET.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL STAKES AND CONTROL SET BY THE DEVELOPER'S SURVEYOR, AND SHALL TAKE STEPS NECESSARY TO INSURE THAT THE STAKES AND CONTROL ARE NOT DISTURBED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST INCURRED TO RESTAKE.
- ANY QUESTIONS RELATIVE TO THE ACCURACY OF IMPROVEMENT INSTALLATION SHALL NOT BE RAISED SUBSEQUENT TO COMPLETION OF THE WORK UNLESS ALL SURVEY STAKES ARE MAINTAINED INTACT. SHOULD SUCH STAKES NOT BE PRESENT AND VERIFIED AS TO THEIR ORIGIN, NO CLAIM FOR ADDITIONAL COMPENSATION FOR CORRECTION SHALL BE PRESENTED TO ANY PARTY AND SUCH WORK SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL RETENTION BASINS MUST DRAIN ANY STORM EVENT WITHIN 36 HRS. THE OWNER'S RESPONSIBLE FOR ANY BASIN FAILING TO MEET THE REQUIREMENT AND MUST TAKE CORRECTIVE ACTION TO BRING THE BASIN INTO COMPLIANCE WITH THIS CRITERIA AS WELL AS PINAL COUNTY STANDARDS AND DRAINAGE ORDINANCE.
- DRY WELLS SHALL BE MAINTAINED BY THE OWNER'S AND ARE TO BE REPLACED BY THE OWNER'S WHEN THEY CEASE TO DRAIN THE SURFACE WATER IN A 36-HR. PERIOD. REGULAR MAINTENANCE OF THE DRY WELLS' SILTING CHAMBER IS REQUIRED TO ACHIEVE THE BEST OPERATION OF THE DRY WELLS.
- A STORMWATER POLLUTION PREVENTION PLAN WILL BE REQUIRED PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
- ANY WORK DONE IN A DRAINAGE CHANNEL OR WASH MUST COMPLY W/ STATE AND FEDERAL REGULATIONS.

# Pinal County ADMINISTRATION COMPLEX PARKING

**ENGINEERING NOTES**

**PAVING GENERAL REQUIREMENTS AND NOTES**

- DEVELOPER SHALL OBTAIN A PINAL COUNTY RIGHT-OF-WAY USE PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN THE COUNTY RIGHT OF WAY. CONTACT PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST SEVEN (7) WORKING DAYS PRIOR TO WORK.
- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH MAG STANDARD SPECIFICATIONS AND DETAILS.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISHED GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR BLUE STAKE MARKING AS CONSTRUCTION IS IN PROGRESS.
- ALL RESIDENTS TO BE NOTIFIED IN PERSON 24 HOURS PRIOR TO DRIVEWAY CROSSING.
- TRAFFIC CONTROL AND BARRICADING SHALL BE ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR PINAL COUNTY REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST THREE (3) WORKING DAYS PRIOR TO WORK FOR REVIEW AND APPROVAL.
- ANY WORK ON ARTERIAL OR COLLECTOR ROADS SHALL REQUIRE AN OFF-DUTY PINAL COUNTY SHERIFF'S OFFICER FOR TRAFFIC CONTROL. CONTACT SHALL BE MADE THROUGH THE PCSO REPRESENTATIVE.
- ANY WORK DONE IN A DRAINAGE CHANNEL OR WASH MUST COMPLY WITH STATE AND FEDERAL REGULATIONS.
- A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE SUBMITTED TO PINAL COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
- PLAN APPROVAL IS VALID FOR TWELVE (12) MONTHS FROM THE DATE OF COUNTY APPROVAL. IF APPROVAL EXPIRES, THE PLANS MUST BE RESUBMITTED TO PINAL COUNTY PUBLIC WORKS DEPARTMENT FOR UPDATE REVIEW AND RE-APPROVAL.
- THE FOLLOWING NOTES ARE REQUIRED WHEN SPECIAL PRESERVATION OR HILLSIDE ISSUES ARE INVOLVED:
  - BEFORE GRADING IN AREAS CONTAINING NATIVE DESERT VEGETATION, THE CONTRACTOR MUST OBTAIN A PERMIT FROM ARIZONA DEPARTMENT OF AGRICULTURE.
  - THIS SITE HAS SPECIAL PRESERVATION OR HILLSIDE ISSUES. THE PAVING PLAN MUST SHOW ALL LANDSCAPE PRESERVATION EASEMENTS, CONSTRUCTION FENCING LOCATIONS, AND APPROPRIATE AREAS LABELED. PRIOR TO ANY CLEARING, GRUBBING, OR GRADING OPERATIONS CONSTRUCTION FENCING SHALL BE SHOWN ON APPROVED PLANS. PERMITTED AND INSPECTED AND SALVAGE OPERATIONS PERMITTED, INSPECTED, AND COMPLETED.

**SEWER GENERAL REQUIREMENTS AND NOTES**

- DEVELOPER SHALL OBTAIN A PINAL COUNTY RIGHT OF WAY USE PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN THE COUNTY RIGHT OF WAY. CONTACT PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST 7 WORKING DAYS PRIOR TO WORK.
- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH MAG STANDARD SPECIFICATIONS AND DETAILS.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISHED GRADE PRIOR TO COMPLETION OF CONSTRUCTION. (IF LOCATED OUTSIDE PAVEMENT SECTION, PREFER LEVEL WITH FINISHED GRADE BUT ALLOW 6" MAX ABOVE FINISHED GRADE.)
- CONTRACTOR IS RESPONSIBLE FOR BLUE STAKE MARKING AS CONSTRUCTION IS IN PROGRESS.
- ALL RESIDENTS TO BE NOTIFIED IN PERSON A MINIMUM OF 24 HOURS PRIOR TO DRIVEWAY CROSSING.
- TRAFFIC CONTROL AND BARRICADING SHALL BE ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR PINAL COUNTY REQUIREMENTS. CONTRACTOR TO SUPPLY LIGHTED BARRICADES AT 50' INTERVALS WITH OPEN TRENCH SIGNAGE.
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST THREE (3) WORKING DAYS PRIOR TO WORK FOR REVIEW AND APPROVAL.
- ANY WORK ON ARTERIAL OR COLLECTOR ROADS SHALL REQUIRE AN OFF-DUTY PINAL COUNTY SHERIFF'S OFFICER FOR TRAFFIC CONTROL. CONTACT SHALL BE MADE THROUGH THE PCSO REPRESENTATIVE.
- NO TRENCH TO BE LEFT OPEN/UNCOVERED AFTER WORKING HOURS UNLESS PROPERLY SIGNED AND BARRICADED PER THE APPROVED TRAFFIC CONTROL PLAN.
- PLAN APPROVAL IS VALID FOR TWELVE (12) MONTHS FROM THE DATE OF COUNTY APPROVAL. IF APPROVAL EXPIRES, THE PLANS MUST BE RESUBMITTED TO PINAL COUNTY PUBLIC WORKS DEPARTMENT FOR UPDATE REVIEW AND RE-APPROVAL.

**WATER GENERAL REQUIREMENTS AND NOTES**

- DEVELOPER SHALL OBTAIN A PINAL COUNTY RIGHT OF WAY USE PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN THE COUNTY RIGHT OF WAY. CONTACT PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST 7 WORKING DAYS PRIOR TO WORK.
- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH MAG STANDARD SPECIFICATIONS AND DETAILS.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISHED GRADE PRIOR TO COMPLETION OF CONSTRUCTION. (IF LOCATED OUTSIDE PAVEMENT SECTION, PREFER LEVEL WITH FINISHED GRADE BUT ALLOW 6" MAX ABOVE FINISHED GRADE.)
- CONTRACTOR IS RESPONSIBLE FOR BLUE STAKE MARKING AS CONSTRUCTION IS IN PROGRESS.
- ALL RESIDENTS TO BE NOTIFIED IN PERSON 24 HOURS PRIOR TO DRIVEWAY CROSSING.
- TRAFFIC CONTROL AND BARRICADING SHALL BE ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR PINAL COUNTY REQUIREMENTS. CONTRACTOR TO SUPPLY LIGHTED BARRICADES AT 50' INTERVALS WITH OPEN TRENCH SIGNAGE.
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST THREE (3) WORKING DAYS PRIOR TO WORK FOR REVIEW AND APPROVAL.
- ANY WORK ON ARTERIAL OR COLLECTOR ROADS SHALL REQUIRE AN OFF-DUTY PINAL COUNTY SHERIFF'S OFFICER FOR TRAFFIC CONTROL. CONTACT SHALL BE MADE THROUGH THE PCSO REPRESENTATIVE.
- NO TRENCH TO BE LEFT OPEN/UNCOVERED AFTER WORKING HOURS UNLESS PROPERLY SIGNED AND BARRICADED PER THE APPROVED TRAFFIC CONTROL PLAN.
- PLAN APPROVAL IS VALID FOR TWELVE (12) MONTHS FROM THE DATE OF COUNTY APPROVAL. IF APPROVAL EXPIRES, THE PLANS MUST BE RESUBMITTED TO PINAL COUNTY PUBLIC WORKS DEPARTMENT FOR UPDATE REVIEW AND RE-APPROVAL.

**GRADING GENERAL REQUIREMENTS AND NOTES**

- DEVELOPER SHALL OBTAIN A PINAL COUNTY GRADING AND DRAINAGE PERMIT PRIOR TO ANY WORK BEING PERFORMED. CONTACT PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST 7 WORKING DAYS PRIOR TO WORK.
- DRAINAGE PLAN SHALL BE IN ACCORDANCE WITH THE CURRENT PINAL COUNTY DRAINAGE ORDINANCE.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN EARTH MOVING PERMIT FROM PINAL COUNTY AIR QUALITY CONTROL AND THE EPA, AND FOR COMPLYING WITH THEIR REQUIREMENTS FOR DUST CONTROL.
- ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH MAG STANDARD SPECIFICATIONS AND DETAILS.
- CONTRACTOR IS RESPONSIBLE FOR BLUE STAKE MARKING AS CONSTRUCTION IS IN PROGRESS.
- A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE SUBMITTED TO PINAL COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
- ALL RETENTION BASINS MUST DRAIN ANY STORM EVENT WITHIN 36 HRS. THE OWNER IS RESPONSIBLE FOR ANY BASIN FAILING TO MEET THE REQUIREMENT AND MUST TAKE CORRECTIVE ACTION TO BRING THE BASIN INTO COMPLIANCE WITH THIS CRITERIA AS WELL AS THE PINAL COUNTY DRAINAGE ORDINANCE.
- ALL DRY WELLS SHOWN ON THIS PROJECT SHALL BE MAINTAINED BY THE OWNERS AND ARE TO BE REPLACED BY THE OWNERS WHEN THEY CEASE TO DRAIN THE SURFACE WATER IN A 36-HR PERIOD. REGULAR MAINTENANCE OF THE DRY WELLS' SILTING CHAMBER IS REQUIRED TO ACHIEVE THE BEST OPERATION OF THE DRY WELLS. THE OWNER SHALL BE RESPONSIBLE FOR REGISTERING ALL DRYWELLS WITH ADEQ.
- ANY WORK DONE IN A DRAINAGE CHANNEL OR WASH MUST COMPLY WITH STATE AND FEDERAL REGULATIONS.
- PLAN APPROVAL IS VALID FOR TWELVE (12) MONTHS FROM THE DATE OF COUNTY APPROVAL. IF APPROVAL EXPIRES, THE PLANS MUST BE RESUBMITTED TO PINAL COUNTY PUBLIC WORKS DEPARTMENT FOR UPDATE REVIEW AND RE-APPROVAL.
- FOR PLANS WITH 1+ ACRE LOTS AND ON-LOT RETENTION: AN INDIVIDUAL GRADING AND DRAINAGE PLAN FOR EACH PARCEL TO BE SUBMITTED FOR REVIEW AND APPROVAL. THE APPROVED MASTER DRAINAGE PLAN WILL NEED TO BE ADHERED TO WHEN INDIVIDUAL PARCEL GRADING PLAN IS SUBMITTED FOR REVIEW/ APPROVAL.

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Engineering Answers

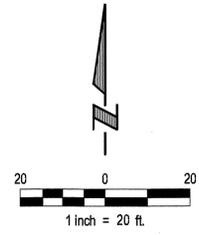
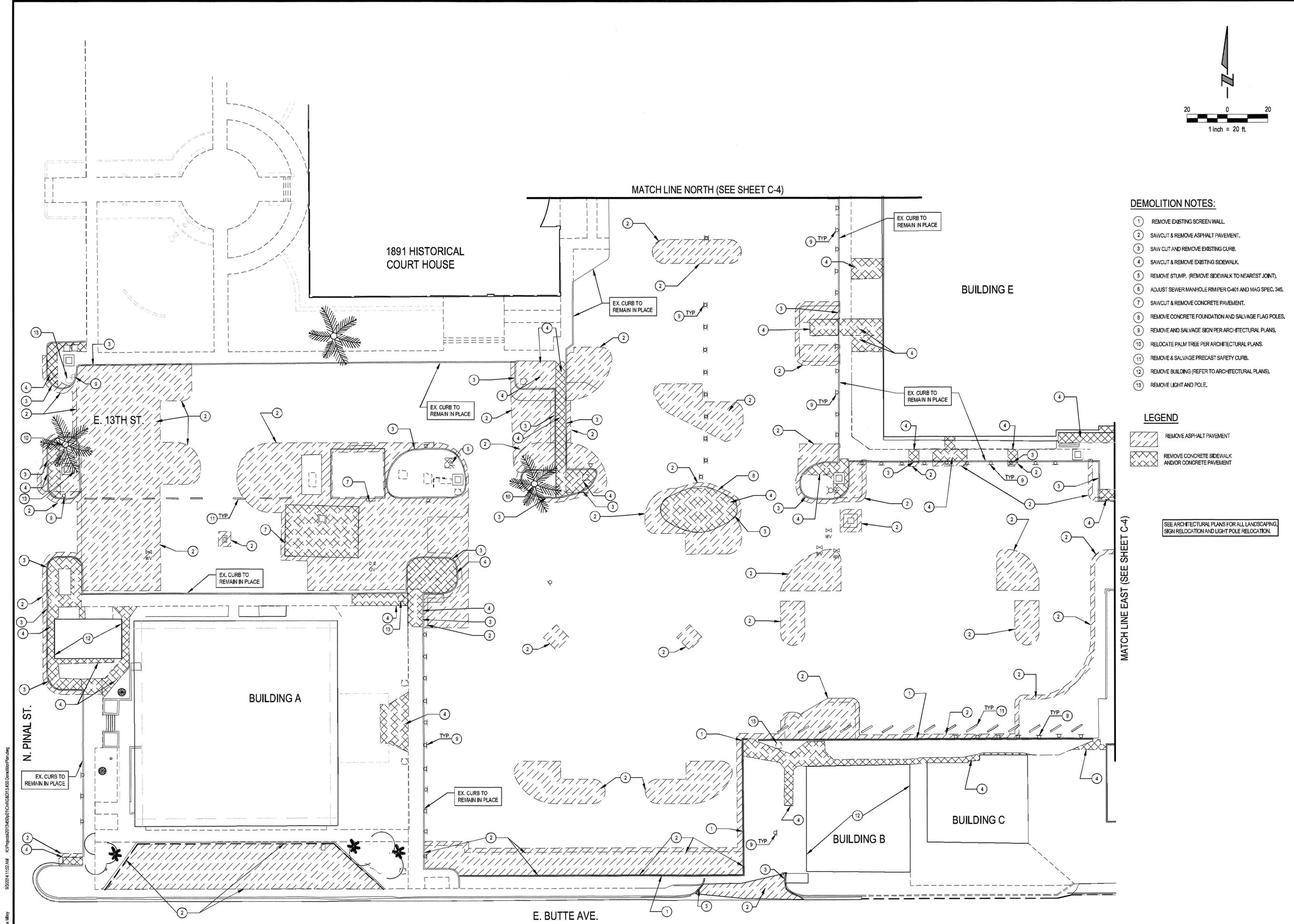
PINAL COUNTY  
ADMINISTRATION COMPLEX PARKING  
REHABILITATION  
FLORENCE, ARIZONA

NOTES



Revision	Description	Date
1		

C-2



**DEMOLITION NOTES:**

- 1 REMOVE EXISTING SCREEN WALL.
- 2 SAWCUT & REMOVE ASPHALT PAVEMENT.
- 3 SAW CUT AND REMOVE EXISTING CURB.
- 4 SAWCUT & REMOVE EXISTING SIDEWALK.
- 5 REMOVE STUMP. (REMOVE SIDEWALK TO NEAREST JOINT).
- 6 ADJUST SEWER MANHOLE RIM PER C-401 AND MAG SPEC. 345.
- 7 SAWCUT & REMOVE CONCRETE PAVEMENT.
- 8 REMOVE CONCRETE FOUNDATION AND SALVAGE FLAG POLES.
- 9 REMOVE AND SALVAGE SIGN PER ARCHITECTURAL PLANS.
- 10 RELOCATE PALM TREE PER ARCHITECTURAL PLANS.
- 11 REMOVE & SALVAGE PRECAST SAFETY CURB.
- 12 REMOVE BUILDING (REFER TO ARCHITECTURAL PLANS).
- 13 REMOVE LIGHT AND POLE.

**LEGEND**

- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE SIDEWALK AND/OR CONCRETE PAVEMENT

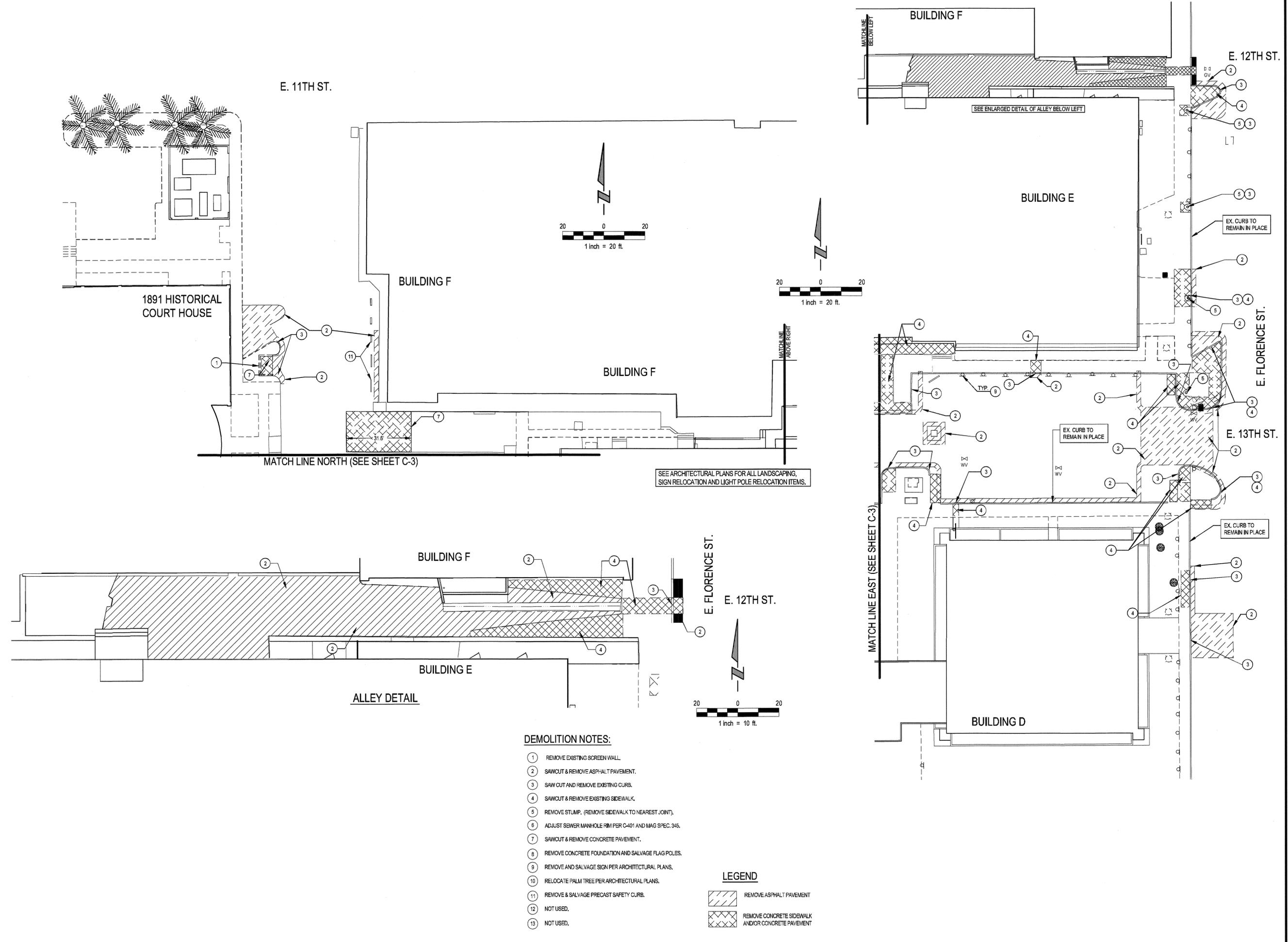
SEE ARCHITECTURAL PLANS FOR ALL LANDSCAPING, SIGN RELOCATION AND LIGHT POLE RELOCATION.



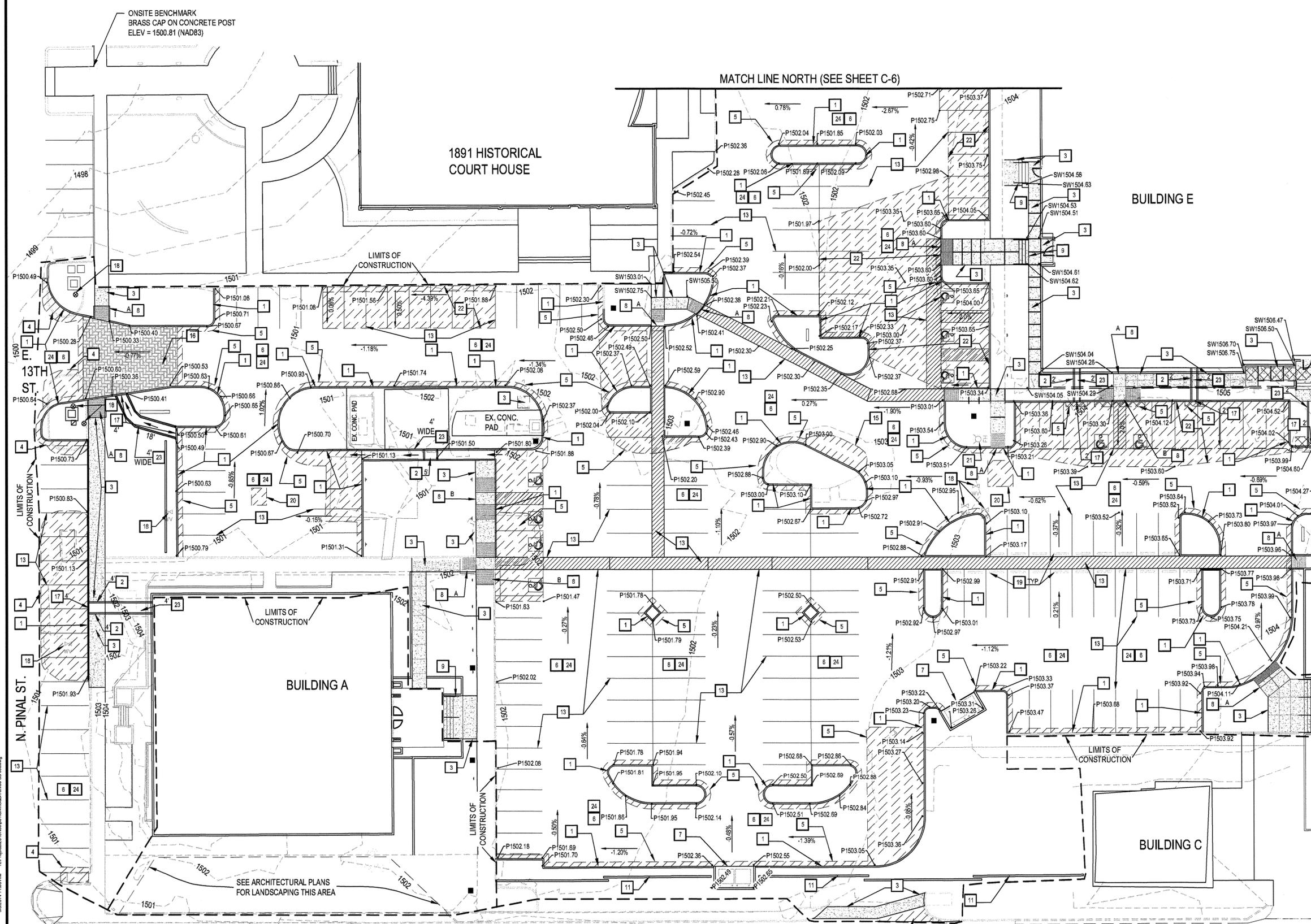
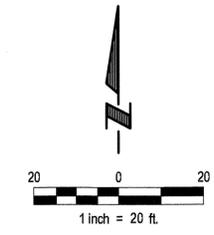
Revision	Description
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 Chris Milby

Revision	Description



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 Chris Wiley



**CONSTRUCTION NOTES:**

- 1 CONSTRUCT SINGLE CURB PER MAG STD. DET. 222, TYPE A.
- 2 CONSTRUCT SCUPPER PER MAG STD DET 203 WIDTH OF OPENING GIVEN.
- 3 CONSTRUCT SIDEWALK PER MAG STD. DET. 230.
- 4 INSTALL 3" A.C. ON 8" ABC. A.C. PER MAG SECTION 710 AND ABC PER SECTION 702. SUBGRADE PER MAG SECTION 301. SEE DETAIL 4 ON SHEET C-7.
- 5 INSTALL 2" A.C. ON 6" ABC. A.C. PER MAG SECTION 710 AND ABC PER SECTION 702. SUBGRADE PER MAG SECTION 301. SEE DETAIL 5 ON SHEET C-7.
- 6 INSTALL PMM RTU POLYMER MODIFIED MASTERSEAL PER SPECIFICATIONS.
- 7 INSTALL TRASH ENCLOSURE PER ARCHITECTURAL DRAWINGS.
- 8 INSTALL SIDEWALK RAMP & CURB, TYPE AS SHOWN PER DETAIL SHEET C-7 (A OR B).
- 9 INSTALL CONCRETE STEPS PER ARCHITECTURAL PLAN.
- 10 INSTALL CONCRETE VALLEY GUTTER PER MAG. STD. DET. 240. MODIFIED WIDTH AS SHOWN.
- 11 INSTALL 6" HIGH CMU SCREEN WALL (HEIGHT AND WIDTH AS SHOWN). SEE ARCHITECTURAL PLANS.
- 12 NOT USED.
- 13 PAINT STRIPING PER ARCHITECTURAL PLANS.
- 14 NOT USED.
- 15 FILL AND COMPACT EXCAVATED AREA TO MEET PAVING SPECIFICATIONS.
- 16 INSTALL 7" STAMPED CONCRETE OVER 4" ABC PER ARCHITECTURAL PLANS.
- 17 INSTALL CURB OPENING PER DETAIL 17 ON SHEET C-7.
- 18 ADJUST WATER VALVE PER M.A.G. STD. DET. 391-2 OR CLEANOUT PER MAG. STD. DET. 270.
- 19 INSTALL PRECAST SAFETY CURB PER MAG STD DET. 150.
- 20 INSTALL ASPHALT WEDGE COURSE AS NEEDED TO ADJUST PAVEMENT TO TOP OF VAULT COVER.
- 21 ADJUST HYDRANT PER MAG STD DET. 360-1, 2 & 3. (AS DIRECTED BY ENGINEER).
- 22 INSTALL ASPHALT WEDGE COURSE AS NEEDED TO PROVIDE MAXIMUM CURB HEIGHT OF 6 INCHES. (SEE DETAIL ON SHEET C-7).
- 23 INSTALL CONCRETE CHANNEL. SEE DETAIL ON SHEET C-7.
- 24 INSTALL CRACK SEAL PER SPECIFICATIONS AND APPLY IN LOCATIONS AS DIRECTED BY THE ENGINEER.

**LEGEND**

- PROPOSED ASPHALT PAVEMENT.
- PROPOSED ASPHALT PAVEMENT OVER CONCRETE.
- PROPOSED CONCRETE WALK.

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PINAL COUNTY  
 ADMINISTRATION COMPLEX PARKING  
 REHABILITATION  
 FLORENCE, ARIZONA

GRADING & DRAINAGE  
 PLAN



Revision	Description	Date

**C-5**

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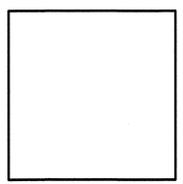


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drawing: COVER SHEET AND NOTES project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

date: SEPT 2014 drawn: DRC checked: DRC rev:

project number:

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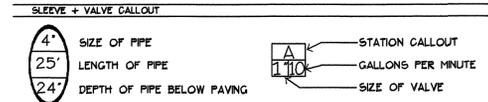
111 E. Dunlap Ave., Suite 1-278 Phoenix, Arizona 85020

IRRIGATION NOTES

- 1. IRRIGATION SYSTEM IS DESIGNED FOR 65 PSI. CONTRACTOR SHALL VERIFY WATER PRESSURE IN FIELD PRIOR TO STARTING CONSTRUCTION. SHOULD A DISCREPANCY EXIST BETWEEN PRESSURE AND THE FIELD PRESSURE, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
2. CHECK AND VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO TRENCHING.
3. WHERE TREES, LIGHT STANDARDS, ETC. ARE AN OBSTRUCTION OF SPRAYS, PIPING AND SPRINKLER HEADS SHALL BE ADJUSTED AND/OR RELOCATED AS NECESSARY TO OBTAIN FULL COVERAGE WITHOUT EXCESSIVE OVERTHROW. DO NOT EXCEED SPACINGS SHOWN ON DRAWINGS.
4. IF IT BECOMES NECESSARY TO RELOCATE OR ALTER SPRINKLER HEADS, VALVES, PIPING, ETC. DUE TO CHANGE IN SITE CONDITIONS, CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING THESE REVISIONS.
5. PLANS ARE DIAGRAMMATIC AND APPROXIMATE. ALL VALVES SHALL BE LOCATED IN DECOMPOSED GRANITE PLANTING AREAS ONLY AND ALL SLEEVES SHALL BE INSTALLED PRIOR TO PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING EXCEPT WHERE SHOWN ON DRAWINGS. CAP ALL ENDS HAND TIGHT, PRIOR TO BACKFILL.
6. ALL VALVE AND FLUSH BOX COVERS TO MATCH DECOMPOSED GRANITE. GREEN COVERS ARE NOT ACCEPTABLE.
7. SPRINKLER HEADS SPECIFIED ARE AVAILABLE IN VARYING DEGREES OF ARCHES. CONTRACTOR SHALL PROVIDE AT EACH HEAD, THE ARC MOST SUITED TO PROVIDE ADEQUATE COVERAGE AND PREVENT OVERSPRAY ON WALKS, ROADS, BUILDINGS, ETC.
8. ALL SLEEVES, PVC ELECTRIC SLEEVES, ETC. UNDER PAVING SHALL BE INSTALLED PRIOR TO PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING EXCEPT WHERE SHOWN ON DRAWINGS. CAP ALL ENDS HAND TIGHT, PRIOR TO BACKFILL.
9. EACH REMOTE CONTROL VALVE SHALL BE CONNECTED TO AN AUTOMATIC CONTROLLER WITH NUMBER 14 FLUOT WIRE AND NUMBER 14 COMMON WIRE - TYPE U.F., COPPER, U.L. APPROVED SOLID STRAND.
10. ALL AUTOMATIC CONTROLLERS, RISERS, BACKFLOW PREVENTERS AND HOSE BIBBS SHALL BE SET PLUMB. SPRINKLER HEAD RISERS, QUICK COUPLER VALVES AND ALL ALL VALVES WITH STEMS SHALL BE SET PERPENDICULAR TO FINISHED GRADE.
11. COORDINATE IRRIGATION WORK WITH PLANTING PLANS TO AVOID CONFLICTING LOCATIONS BETWEEN PIPING AND PLANT FITS.
12. ALL MATERIALS SHALL BE INSTALLED AS DETAILED ON DRAWINGS. HOWEVER, IF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS DO NOT THOROUGHLY DESCRIBE THE METHOD OF TECHNIQUES TO BE USED, THEN THE CONTRACTOR SHALL FOLLOW THE INSTALLATION METHODS ISSUED BY THE MANUFACTURER. ALL SUCH LITTERATURE MUST BE APPROVED BY THE IRRIGATION CONSULTANT.
13. USE COMMON TRENCHES WHERE POSSIBLE.
14. ADJUST BUBBLERS AND HEADS FOR PROPER HEAD TO HEAD COVERAGE.
15. USE CLASS 315 PVC PIPE FROM WATER OR SHUT OFF VALVE TO BACKFLOW PREVENTER.
16. PLACE ALL VALVES IN APPROVED VALVE BOXES.
17. USE SCH 40 RISERS FOR ALL EMITTERS/BUBBLERS, SHRUBS AND LAWN HEADS.
18. LATERAL PIPING TO BE A MINIMUM OF 12 INCHES DEEP AND MAIN LINES A MINIMUM OF 18 INCHES DEEP.
19. USE TEFLON TAPE OR PIPE JOINT COMPOUND ON ALL THREADED JOINTS.
20. USE 14 GAUGE U.F., U.L. DIRECT BURIAL WIRE FROM CONTROLLER TO ELECTRICAL VALVES.
21. USE SCHEDULE 40 PVC PIPE 2-1/2' TIMES LARGER THAN PIPE BEING HOUSED FOR SLEEVING UNDER ALL PAVING.
22. IRRIGATION CONTRACTOR TO BURN STATION NUMBER INTO TOP OF VALVE BOX.

IRRIGATION LEGEND

Table with columns: KEY, SYMBOLS, MODEL TYPE, DESCRIPTION. Includes entries for Rainbird rotors, Bowersmith emitters, Rainbird electric valves, and various pipe schedules.



IRRIGATION NOTES

- 1. IRRIGATION CONTRACTOR TO VERIFY LOCATION OF EXISTING IRRIGATION MAINLINE AND SET A 15' TEE. THEN SET 1.5" BRASS BALL VALVE AFTER T CONNECTION.
2. EXISTING 1" WATER METER.
3. EXISTING 1.5" FEBCO BACKFLOW PREVENTER.
4. IRRIGATION CONTRACTOR TO SET NEW RAINBIRD ESP-LXME ELECTRIC CONTROLLER. SEE IRRIGATION LEGEND FOR CONTROLLER SIZES. GENERAL CONTRACTOR TO PROVIDE POWER.
5. 1.5" MAINLINE, TYP.
6. IRRIGATION SYSTEM IS DESIGNED FOR MULTI PORT EMITTERS. PLACE THE MULTI-PORT EMITTERS IN A 6" ROUND VALVE BOX. THE DELIVERY TUBING TO BE NO LONGER THAN 6' IN LENGTH. EACH TREE TO HAVE (1) MULTI PORT EMITTER AND THE DELIVERY TUBING TO BE EVENLY SPACED AROUND.
7. IRRIGATION CONTRACTOR TO BORE UNDER THE EXISTING SIDEWALK FOR NEW SLEEVE.
8. GENERAL CONTRACTOR TO SAW CUT THE EXISTING ASPHALT FOR THE NEW SLEEVE AND PATCH WITH THE NEW ASPHALT.
9. IRRIGATION CONTRACTOR TO REMOVE THE IRRIGATION IN THE AREA WHERE THE TURF WAS REMOVED IN FRONT OF AND AROUND THE SIGN. REPLACE THE HEAD FOR THIS AREA FOR 100% COVERAGE. CAP THE EXISTING PIPE AND GIVE THE HEADS TO THE TOWN MAINTENANCE STAFF. REPLACE THE EXISTING NOZZLES FOR PROPER COVERAGE. TIE THE NEW EMITTERS HEADS INTO THE EXISTING VALVES.

LANDSCAPE NOTES

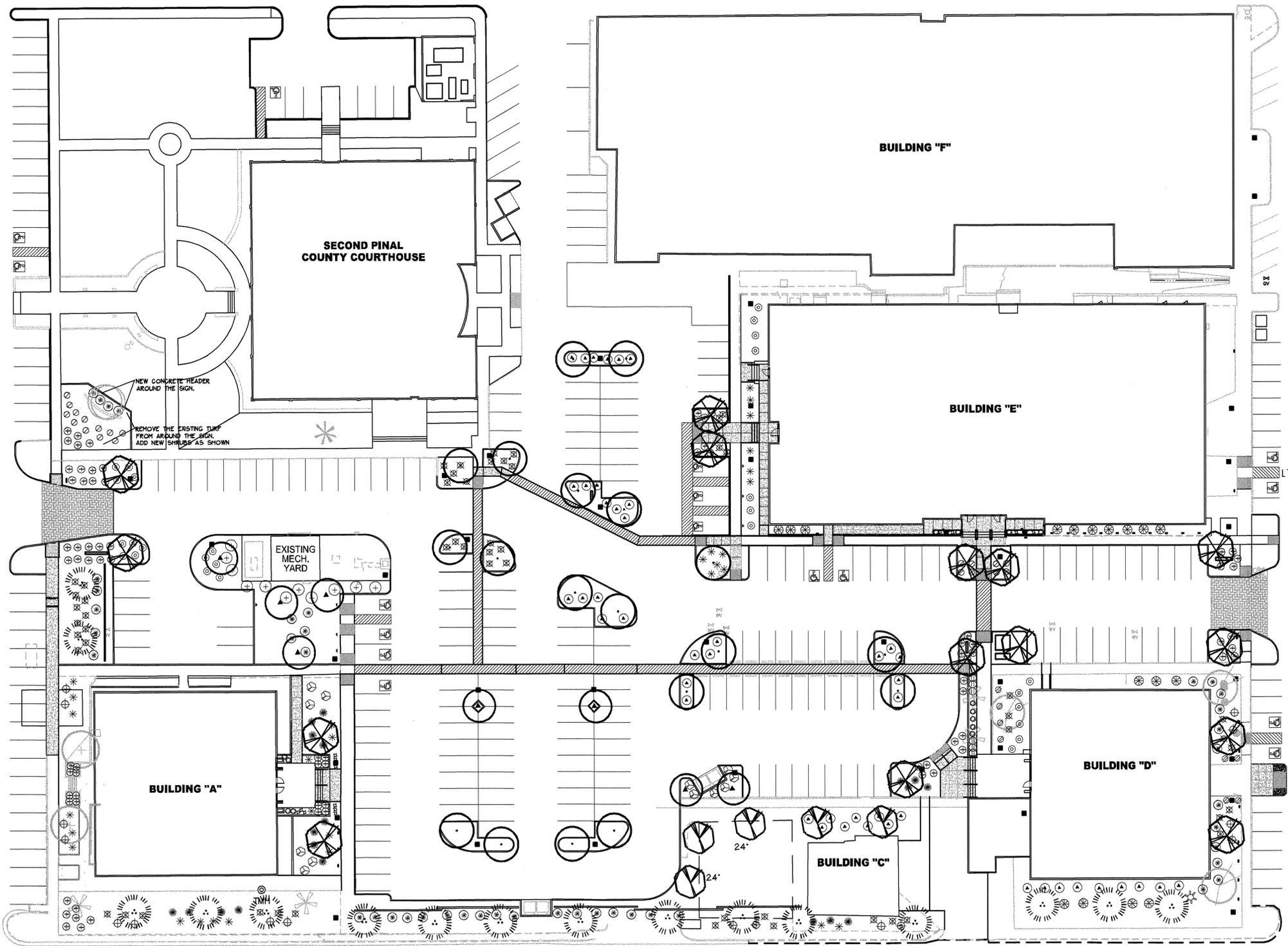
- 1. CONTRACTOR TO VERIFY ALL SITE CONDITIONS PRIOR TO STARTING WORK.
2. LANDSCAPE ARCHITECT OR HIS REPRESENTATIVE RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL HE DEEMS UNACCEPTABLE BEFORE OR AFTER PLANTING.
3. GROUND COVER AND/OR DECOMPOSED GRANITE SHALL EXTEND UNDER SHRUBS UNLESS OTHERWISE NOTED AND ALL BEDS THROUGH THIS SITE.
4. SOIL PREPARATION:
A: PLANTING PIT BACKFILL FOR ALL TREES (15 GALLON AND LARGER) AND SHRUBS-GROUNDCOVER (5 AND 1 GALLON) SHALL BE AS FOLLOWS:
6 PARTS BY VOLUME ON SITE SOIL
4 PARTS BY VOLUME NITROGENIZED SAWDUST
1 PART BY VOLUME GYPSUM
1 POUND 16-20-0 PER CUBIC YARD OF MIX
B: ALL PLANTS WITH THE EXCEPTION OF GROUND COVERS AND TURF AREAS TO RECEIVE AGRIFORM (20-10-5) PLANTS TABS AT THE FOLLOWING RATES:
1 GALLON 1-21 GRAM TABLETS
5 GALLON 2-21 GRAM TABLETS
15 GALLON 4-21 GRAM TABLETS
24' BOX 6-21 GRAM TABLETS
5. ALL GRADING TO PLUS OR MINUS 1/10 OF ONE FOOT BY GENERAL CONTRACTOR. THE FINISH GRADING AND FINE RAKING BY LANDSCAPE CONTRACTOR.
6. ALL GROUND COVER AREAS FROM (1) GALLON CONTAINERS OR LARGER SHALL RECEIVE 2" MINIMUM DEPTH OF DECOMPOSED GRANITE.
7. ALL PLANTING AREAS TO HAVE DECOMPOSED GRANITE AS SPECIFIED.
8. LANDSCAPE CONTRACTOR TO APPLY (2) APPLICATIONS OF PRE-EMERGENT HERBICIDES COMPATIBLE WITH SEED MIXTURE(S) AND VEGETATIVELY PLANTED MATERIALS. CONTRACTOR TO USE ONLY APPROVED WEED CONTROL MATERIALS AND A LICENSED APPLICATOR. NO MATERIAL OR METHOD SHALL EFFECT THE LANDSCAPE PLANTING AND ESTABLISHMENT. MATERIALS AND METHODS MUST CONFORM TO FEDERAL, STATE AND LOCAL REGULATIONS.
9. PLANT AS PER DETAILS PROVIDED. ADJUSTMENTS WILL BE BY THE L.A. ONLY. BRING ANY PROPOSED CHANGES TO L.A.'S ATTENTION PRIOR TO CHANGES. AREAS OF STANDING WATER SHALL BE BROUGHT TO THE L.A.'S ATTENTION.
10. THE CORRECTION OF ALL DRAINAGE PROBLEMS IN ALL PLANT BEDS IS A PART OF THIS CONTRACT. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING APPROPRIATE GRADES TO ENSURE THAT ALL WATER SHALL NOT COLLECT IN ANY PLANT FITS OR PLANT BEDS OR AGAINST BUILDINGS AND WALKS.
11. ANY SUBSTITUTIONS, DELETIONS, ETC. SHALL BE APPROVED ONLY BY L.A.
12. CONTRACTOR SHALL PROVIDE THE OWNER WITH A ONE YEAR GUARANTEE ON ALL TREES AND IRRIGATION WORK AND WORKMANSHIP. CONTRACTOR SHALL PROVIDE THE OWNER WITH A 90 DAY GUARANTEE ON ALL SHRUBS, GROUNDCOVERS AND WORKMANSHIP. GUARANTEE SHALL BEGIN UPON FINAL ACCEPTANCE BY L.A. MAINTAIN ALL PLANTINGS UNTIL FINAL ACCEPTANCE BY THE L.A. IT IS THE LANDSCAPE CONTRACTORS RESPONSIBILITY TO ARRANGE A SITE MEETING, AT THE CONCLUSION OF THE GUARANTEE PERIOD, WITH THE OWNER.
13. VANDALISM CORRECTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. LANDSCAPE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT ALL WORK DURING CONSTRUCTION. PROVIDE FENCING/ROPE AS REQUIRED.
14. CONTRACTOR SHALL PROVIDE L.A. WITH THREE WEEK NOTICE ON THE FOLLOWING INSPECTIONS:
1. INSPECTION OF FINISHED GRADES, PRIOR TO PLANTING, AND PLANT MATERIALS INSPECTIONS.
2. IRRIGATION INSPECTIONS
3. FINAL INSPECTIONS.
THESE INSPECTIONS ARE REQUIRED. IT IS THE CONTRACTORS RESPONSIBILITY TO CALL THE L.A. AND SCHEDULE A TIME, THE COST OF THESE INSPECTIONS WILL BE THE RESPONSIBILITY OF THE OWNER.
15. SEE ALL GRADING, ENGINEERING, ARCH., SITE AND UTILITY PLANS. ALL LANDSCAPE WORK SHALL BE ADJUSTED AROUND SITE IMPROVEMENTS.
16. ALL PLANTINGS SHALL BE IRRIGATED - SEE IRRIGATION PLAN
17. OBTAIN ALL BONDS AS REQUIRED BY THE STATE AND LOCAL CODES TO PERFORM WORK AS SHOWN.
18. ANY SLOPES 4:1 (HORZ. : VERT.) AND STEEPER WHICH SHALL BE PLANTED WITH TREES, SHRUBS OR GROUNDCOVERS SHALL BE STABILIZED TO PREVENT EROSION SEE CIVIL PLANS FOR THE PROPOSED SLOPES.
19. ALL PERMITS AND BONDS, AS MAY BE REQUIRED BY THE CITY OR COUNTY, IN WHICH THIS PROJECT OCCURS, SHALL BE PAID FOR AND AVAILABLE AT THE TIMES REQUIRED BY THE GOVERNING BODY, AND PROVIDED FOR BY THE LANDSCAPE CONTRACTOR.
20. ALL TREES WITHIN THE SIGHT TRIANGLE TO BE TRIMMED UP 7' AND SHRUBS TO BE BELOW 2'.
21. PROVIDE 8% SLOPE AWAY FROM CURB OR WALK 5'-0" ALONG ALL SETBACKS
22. SETBACK ALL SPRAY AND STREAM TYPE IRRIGATION HEADS 1'-0" FROM BACK OF CURB OR SIDEWALK TO REDUCE OVERSPRAY.
23. AREAS OF DECOMPOSED GRANITE WITH OUT PLANT MATERIALS OR GROUNDCOVERS SHALL NOT EXCEED DIMENSIONS OF MORE THAN SEVEN FEET IN ANY ONE DIRECTION, MEASURED BETWEEN PLANT CANOPIES AND/ OR COVERAGE.

PLANT MATERIAL LEGEND

Table with columns: KEY, SYMBOL, BOTANICAL/COMMON NAME, SIZE (Height, Canopy, Caliper). Lists existing trees, shrubs, large shrubs, medium and small shrubs, groundcovers, accents, and landscape materials.

NOTE: CONTRACTOR TO REMOVE THE EXISTING TURF AROUND THE EXISTING SIGN BACK TO THE NEW CONCRETE HEADER. THE CONTRACTOR TO ERADICATE THE TURF WITH A CONTACT HERBICED. LET IT DIE (TURN BROWN) BEFORE REMOVAL OF THE TURF.

PLANT LOCATIONS TO BE APPROVED BY PROJECT ARCHITECT/ LANDSCAPE ARCHITECT PRIOR TO PLANTING.



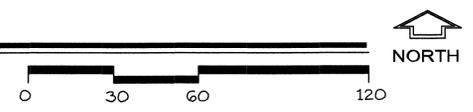
### PLANT MATERIAL LEGEND

KEY SYMBOL	BOTANICAL/Common NAME	SIZE (Height, Canopy, Caliper)	QUANT.
<b>EXISTING TREES</b>			
(A)	<i>Prosopis velutina</i> Arizona Mesquite	Existing to remain	
(B)	<i>Phoenix dactylifera</i> Date Palm	Existing to remain	
(C)	<i>Washingtonia robusta</i> Mexican Fan Palm	Existing to remain	
(D)	<i>Eucalyptus camaldulensis</i> Red Gum Eucalyptus	Existing to remain	
(E)	<i>Pistacia x Red Push</i> Red Push Pistache	Existing to remain	
<b>TREES</b>			
(1)	<i>Dalbergia sissoo</i> Sissoo	24" Box 10' 4" 1.25" Double-Staked Typ.	8
(2)	<i>Pistacia x Red Push</i> Red Push Pistache	24" Box 10' 4" 1.5" Double-Staked Typ.	15
(3)	<i>Quercus virginiana</i> Heritage Live Oak	24" Box 9' 4" 1.25" 36" Box 13' 8" 2.75" Double-Staked Typ.	5 X
(4)	<i>Ulmus parvifolia</i> Evergreen Elm	24" Box 8' 3" 1.25" Double-Staked Typ.	19
(5)	<i>Parkinsonia hybrid</i> 'Desert Museum' 'Desert Museum' Palo Verde	24" Box 7.5' 4" 1.5" Double-Staked Typ.	16
<b>EXISTING SHRUBS</b>			
(F)	<i>Fouquieria splendens</i> Ocotillo	4' to 6', 4 to 5 coars	1
<b>LARGE SHRUBS</b>			
(6)	<i>Eremophila 'Valentine'</i> Valentine Bush	5 Gallon	12
(7)	<i>Leucophyllum langmaniae</i> Rio Bravo Texas Ranger	5 Gallon	43
(8)	<i>Nerium o. 'Petite Pink'</i> Petite Pink Oleander	5 Gallon	46
(9)	<i>Tecoma stans v. angustata</i> Yellow Bells	5 Gallon	11
(10)	<i>Ruellia pensularis</i> Baja Ruellia	5 Gallon	27
<b>MEDIUM AND SMALL SHRUBS</b>			
(11)	<i>Muhlenbergia emersleyi</i> 'El Toro' El Toro Deer Grass	5 Gallon	16
(12)	<i>Muhlenbergia capillaris</i> 'Regal Mist' Regal Mist Deer Grass	5 Gallon	55
(13)	<i>Callistemon c. 'Little John'</i> Little John Bottle Brush	5 Gallon	6
<b>GROUNDCOVERS</b>			
(14)	<i>Dalea capitata</i> Sierra Gold Dalea	1 Gallon	8
(15)	<i>Lantana n. 'New Gold'</i> New Gold Lantana	1 Gallon	20
(16)	<i>Rosmarinus officinalis 'Prostratus'</i> Dwarf Rosemary	5 Gallon	77
<b>ACCENTS</b>			
(17)	<i>Hesperaloe parviflora</i> Yellow Yellow Yucca	5 Gallon	30
(18)	<i>Dasyliion longissimum</i> Toothless Desert Spoon	5 Gallon	17
(19)	<i>Hesperaloe parviflora</i> Red Red Yucca	5 Gallon	19
(20)	<i>Ferocactus wislizeni</i> Fishhook Barrel Cactus	3 Spear	2
(21)	<i>Echinocactus grusonii</i> Golden Barrel Cactus	5 Gallon	13
(22)	<i>Agave parryi</i> Parry's Agave	5 Gallon	13
<b>LANDSCAPE MATERIALS</b>			
(23)	Decomposed Granite Desert Gold	1/2" size screened 2' Deep	

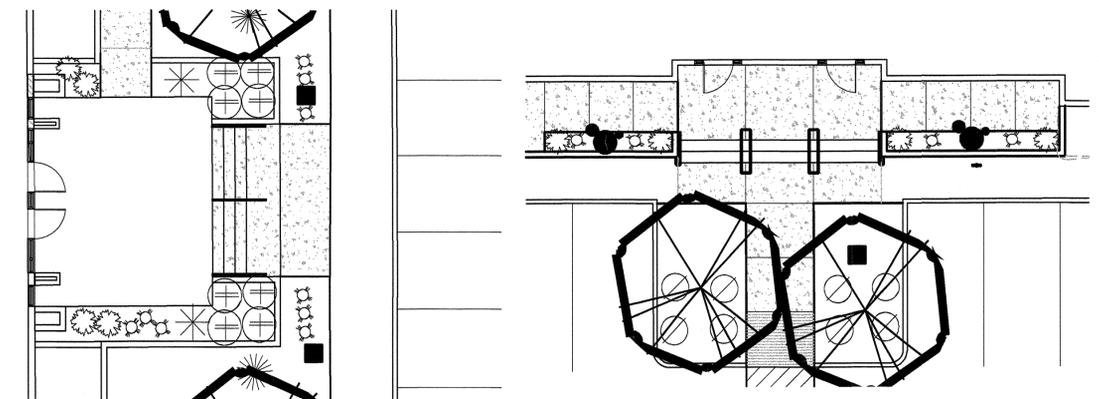
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PLANT LOCATIONS TO BE APPROVED BY PROJECT ARCHITECT/ LANDSCAPE ARCHITECT PRIOR TO PLANTING.

**LANDSCAPE PLAN**  
SCALE 1"=30'-0"



**ENTRY TO BLDG A  
LANDSCAPE PLAN**  
SCALE 1"=10'-0"



**ENTRY TO BLDG E  
LANDSCAPE PLAN**  
SCALE 1"=10'-0"



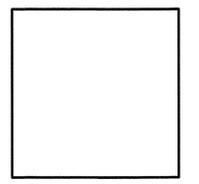
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architecture  
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historic preservation

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drawing: LANDSCAPE PLAN  
project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

date: SEPT 2014  
drawn: DRC  
checked: DRC  
rev:

project number(s):

sheet:  
L-2



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### IRRIGATION LEGEND

KEY	SYMBOLS	EMITTERS	MODEL TYPE	DESCRIPTION
①	△	5004-PL-PC-SAM-SS-2	RAINBIRD ROTOR	1.81 G.P.M.
②	△	5004-PL-PC-SAM-SS-4	RAINBIRD ROTOR	3.50 G.P.M.
③	△	1804-SAM-PRS-12Q	RAINBIRD	0.65 G.P.M.
④	○	1804-SAM-PRS-12H	RAINBIRD	POP-UP LAWN 1.30 G.P.M.
⑤	●	XBT-10-6	BOWSMITH	EMITTER 1.0 GPH
		1 GAL PLANTS - 1-1 GPH/ SHRUB		
		5 GAL PLANTS - 2-1 GPH/ SHRUB		
⑦	▲	XBT-20-6/TREE	BOWSMITH	EMITTER 2.0 GPH

KEY	SYMBOLS	EQUIPMENT
*⑩	■	RAINBIRD FEB SERIES ELECTRIC VALVE
*⑪	■	RAINBIRD RBY SERIES 'WYE' STRAINER
*⑫	■	PEFCO 300 MPF FLUSH VALVE
*⑬	■	RAINBIRD FSI-L-30 PRESSURE REGULATOR

\* ALL ELEMENTS TO BE INCLUDED PER DRIP EMITTER VALVE. TYP.

KEY	SYMBOLS	EQUIPMENT
⑭	⊕	WATTS B6000-SS BALL VALVE
⑮	⊕	RAINBIRD ESP-LXME ELECTRIC CONTROLLER
⑯	⊕	WATER METER EXISTING 1" WATER METER
⑰	⊕	FEBCO EXISTING

KEY	SYMBOLS	PIPE
⑱	DOUBLE LINE	SCHEDULE 40 PVC PIPE (SLEEVE)
⑲	DASHED LINE	CLASS 160 PVC PIPE (LATERAL)
⑳	BOLD LINE	CLASS 200 PVC PIPE (MAINLINE) R.P.B.P.

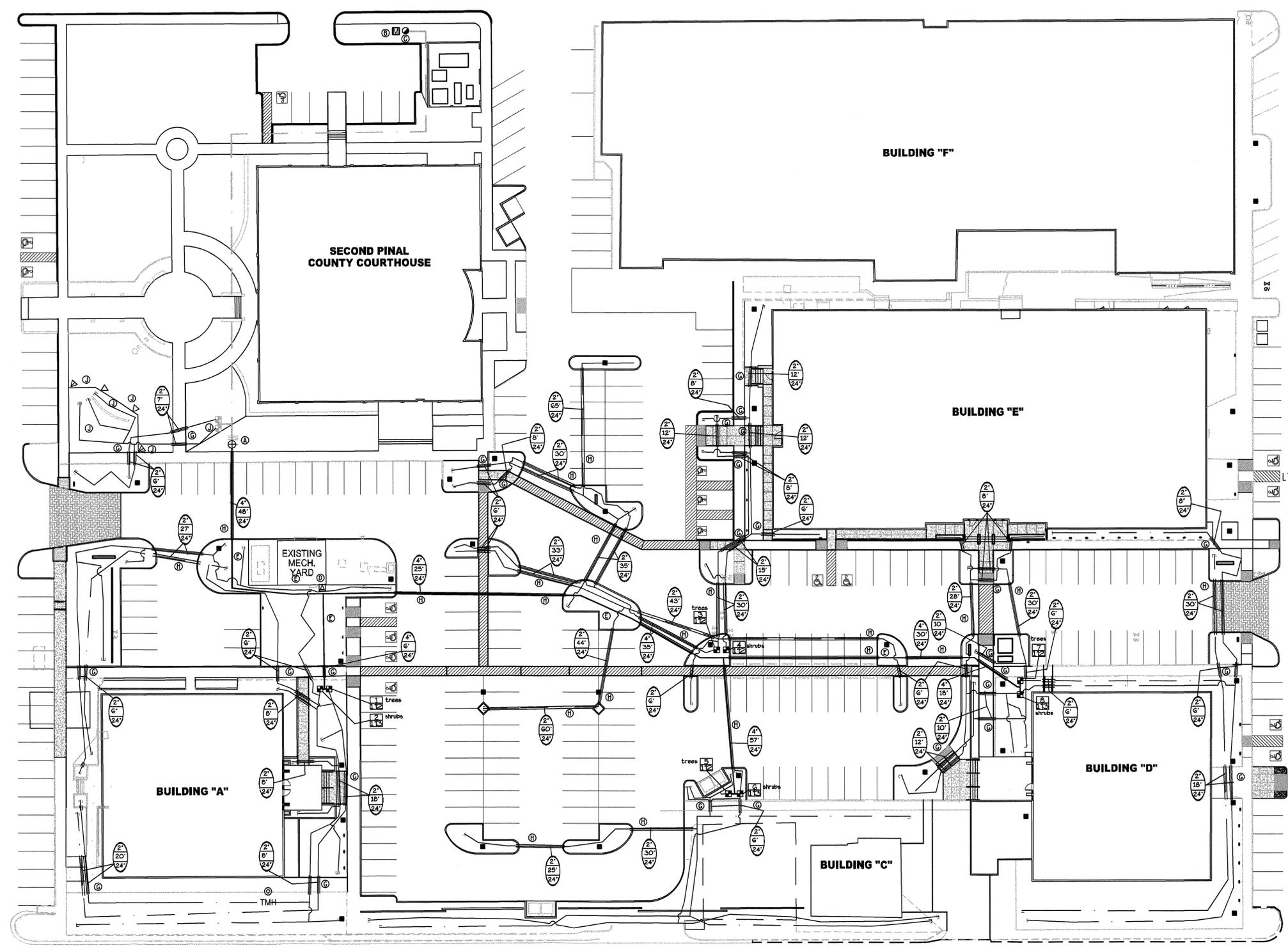
PIPE SCHEDULE	SIZE	GPM'S	SIZE	GPM'S
	1/2"	0-5	1-1/2"	26-35
	3/4"	6-10	1-3/4"	36-45
	1"	11-15	2"	46-55
	1 1/4"	16-25	2-1/4"	56-65

SLEEVE + VALVE CALLOUT

④	SIZE OF PIPE	← STATION CALLOUT
25'	LENGTH OF PIPE	← GALLONS PER MINUTE
2.4'	DEPTH OF PIPE BELOW PAVING	← SIZE OF VALVE

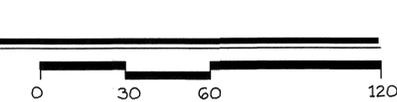
### IRRIGATION NOTES

- ① IRRIGATION CONTRACTOR TO VERIFY LOCATION OF EXISTING IRRIGATION MAINLINE AND SET A 1.5' TEE. THEN SET 1.5" BRASS BALL VALVE AFTER T CONNECTION.
- ② EXISTING 1" WATER METER.
- ③ EXISTING 1.5" FEBCO BACKFLOW PREVENTER.
- ④ IRRIGATION CONTRACTOR TO SET NEW RAINBIRD ESP-LXME ELECTRIC CONTROLLER. SEE IRRIGATION LEGEND FOR CONTROLLER SIZES. GENERAL CONTRACTOR TO PROVIDE POWER.
- ⑤ 1.5" MAINLINE. TYP.
- ⑥ IRRIGATION SYSTEM IS DESIGNED FOR MULTI PORT EMITTERS. PLACE THE MULTI-PORT EMITTERS IN A 6" ROUND VALVE BOX. THE DELIVERY TUBING TO BE NO LONGER THAN 6" IN LENGTH. EACH TREE TO HAVE (1) MULTI PORT EMITTER AND THE DELIVERY TUBING TO BE EVENLY SPACED AROUND.
- ⑦ IRRIGATION CONTRACTOR TO BORE UNDER THE EXISTING SIDEWALK FOR NEW SLEEVE.
- ⑧ GENERAL CONTRACTOR TO SAW CUT THE EXISTING ASPHALT FOR THE NEW SLEEVE AND PATCH WITH THE NEW ASPHALT.
- ⑨ IRRIGATION CONTRACTOR TO REMOVE THE IRRIGATION IN THE AREA WHERE THE TURF WAS REMOVED IN FRONT OF AND AROUND THE SIGN. REPLACE THE HEAD FOR THIS AREA FOR 100% COVERAGE. GAP THE EXISTING PIPE AND GIVE THE HEADS TO THE TOWN MAINTENANCE STAFF. REPLACE THE EXISTING NOZZLES FOR PROPER COVERAGE. TIE THE NEW EMITTERS HEADS INTO THE EXISTING VALVES.



### IRRIGATION PLAN

SCALE 1"=30'-0"



drawing: IRRIGATION PLAN

project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

date: SEPT 2014  
 drawn: DRC  
 checked: DRC  
 rev:

project number(s)

sheet:  
 L-3

**Campbell Collaborative**  
 111 F. Danilop Ave., Suite 1-378  
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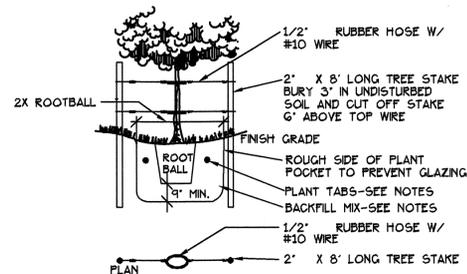


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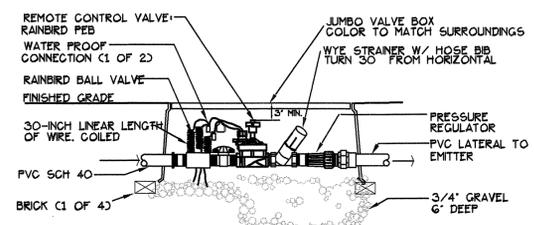
833 N. 5th Ave. Phoenix, AZ 85003

Tel: 602-264-3083 Fax: 602-274-7651



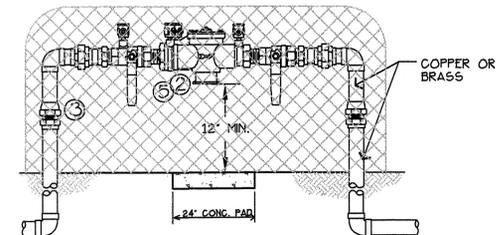
NOTES: PLANTING PIT BACKFILL MIX SHALL BE AS FOLLOWS: 50% BY VOLUME NATIVE SOIL, 30% BY VOLUME NITROGENIZED SAWDUST, 20% BY VOLUME GYPSUM...

9 TYPICAL TREE STAKING DETAIL L-4 NOT TO SCALE



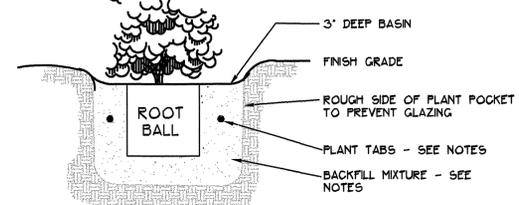
NOTES: COMPACT SOIL AROUND VALVE BOXES TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL. THOROUGHLY FLUSH ALL LINES BEFORE INSTALLING VALVES.

5 EMITTER VALVE MANIFOLD L-4 NOT TO SCALE



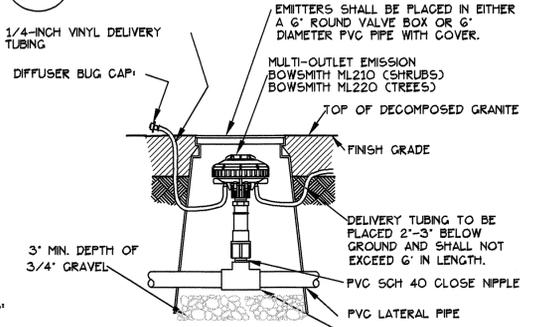
1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12" ABOVE GRADE BUT NO MORE THAN 30" ABOVE GRADE. 2. MINIMUM CLEARANCE IN FRONT OF TEST CLOCKS-12" REQUIRED.

1 REDUCED PRESSURE DETAIL L-4 NOT TO SCALE



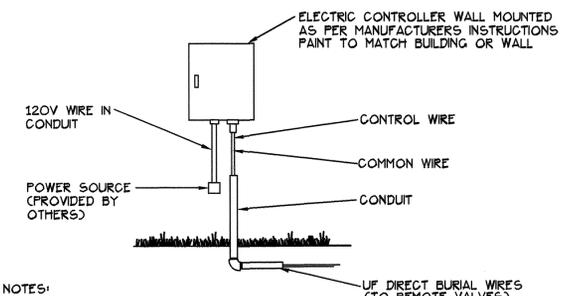
NOTES: PLANTS PIT BACKFILL MIX SHALL BE AS FOLLOWS: 50% BY VOLUME NATIVE SOIL, 30% BY VOLUME NITROGENIZED SAWDUST, 20% BY VOLUME GYPSUM...

10 TYPICAL SHRUB DETAIL L-4 NOT TO SCALE



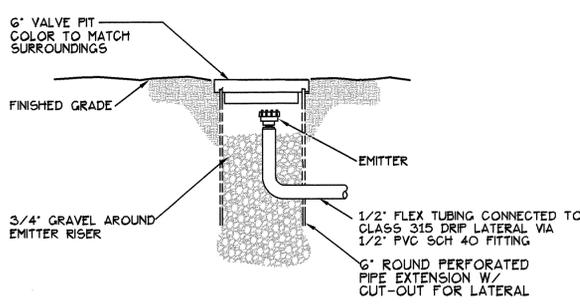
NOTES: EMISSION POINTS SHALL BE LOCATED UPHILL OF PLANT, SUPPLYING WATER TO ROOTBALL.

6 SINGLE PORT EMITTER L-4 NOT TO SCALE

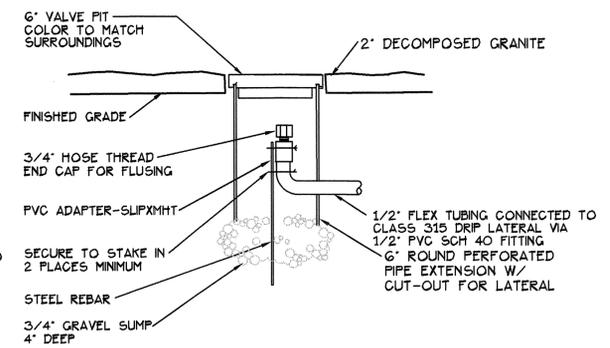


NOTES: SEE MANUAL FOR MOUNTING INSTRUCTIONS. ALL WIRING TO BE INSTALLED AS PER LOCAL CODE.

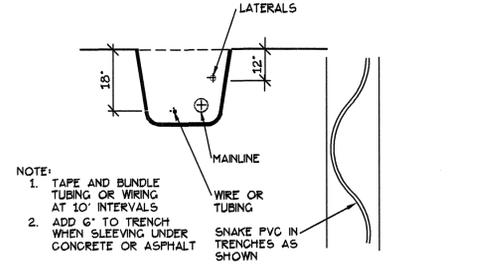
2 WALL MOUNTED ELEC. CONTROLLER L-4 NOT TO SCALE



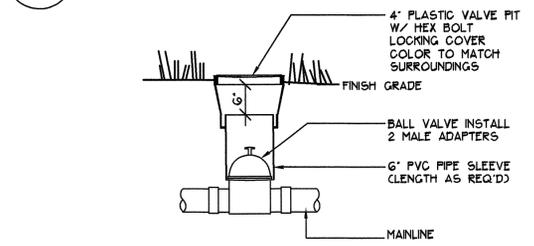
15 EMITTER IN TURF L-4 NOT TO SCALE



7 DRIP SYSTEM FLUSH PLUG L-4 NOT TO SCALE

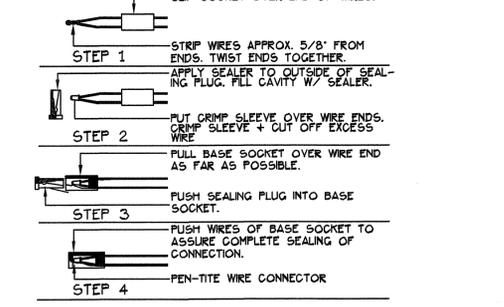


3 TYPICAL TRENCHING DETAIL L-4 NOT TO SCALE

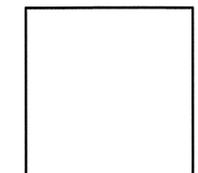


NOTE: COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.

8 TYPICAL BALL VALVE L-4 NOT TO SCALE



4 WIRE CONNECTIONS L-4 NOT TO SCALE

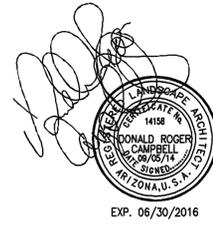


drawing: LANDSCAPE AND IRRIGATION DETAILS project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

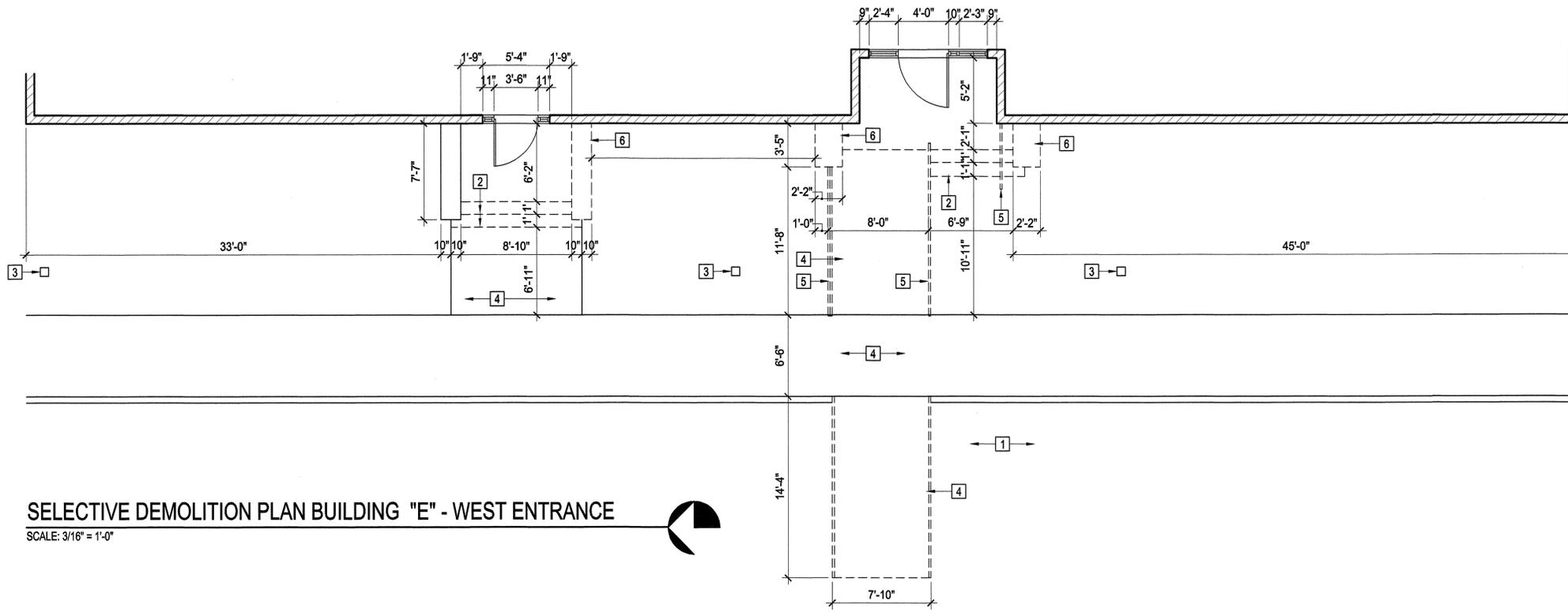
date: SEPT 2014 drawn: DRC checked: DRC rev:

project number(s)

sheet: L-4







**SELECTIVE DEMOLITION PLAN BUILDING "E" - WEST ENTRANCE**  
SCALE: 3/16" = 1'-0"

**○ SPECIFIC RENOVATION ITEMS**

1. PROVIDE 1-1/2" O.D STANDARD STEEL PIPE HANDRAIL (WITH PAINT FINISH) IN ACCORDANCE WITH THE ADA GUIDELINES. TOP OF HANDRAIL TO BE AT 2'-10" ABOVE FINISH SURFACE.
2. PAINT EXISTING FIRE HYDRANT TO REMAIN.
3. PROVIDE CLEAN FILL AND 2 INCH DEEP GRANITE TO MATCH EXISTING. REFER TO LANDSCAPE PLAN.
4. EXISTING RETAINING WALL/PEDESTAL TO REMAIN.
5. CONSTRUCT 4" THICK, 3000 PSI CONCRETE (NATURAL COLOR) SIDEWALK WITH LIGHT BROOM FINISH OVER COMPACTED AGGREGATE BASE COURSE.
6. PROVIDE CLEAN FILL WITH 2" DEEP GRANITE TO MATCH EXISTING. STRAIGHT GRADE FILL TO SIDEWALKS. TOP OF GRADE SHOULD BE 1" BELOW TOP OF SIDEWALK.
7. MATCH ELEVATION OF EXISTING SIDEWALK.
8. PROVIDE EXPANSION JOINT, TYPICAL.
9. PROVIDE 2'-0" LONG X RAMP WITH SCORED CONCRETE COMPLYING WITH ADA GUIDELINES.
10. EXISTING SIDEWALK TO REMAIN.
11. EXISTING CURB TO REMAIN.
12. CONSTRUCT NEW CONCRETE (NATURAL COLOR) STEPS PER DETAIL 3/A-10.
13. PROVIDE CONCRETE SINGLE CURB. REFER TO CIVIL DRAWINGS.
14. PROVIDE SIGNAGE IN ACCORDANCE WITH ADA GUIDELINES.
15. PROVIDE CURB RAMP IN ACCORDANCE WITH ADA GUIDELINES.
16. PROVIDE PAINTED INTERNATIONAL ACCESSIBILITY SYMBOL, TYPICAL.
17. PROVIDE PAINTED LINES IN ACCORDANCE WITH ADA GUIDELINES.
18. PROVIDE LIGHT/FIXTURE POLE, REFER TO ELECTRICAL DRAWINGS.

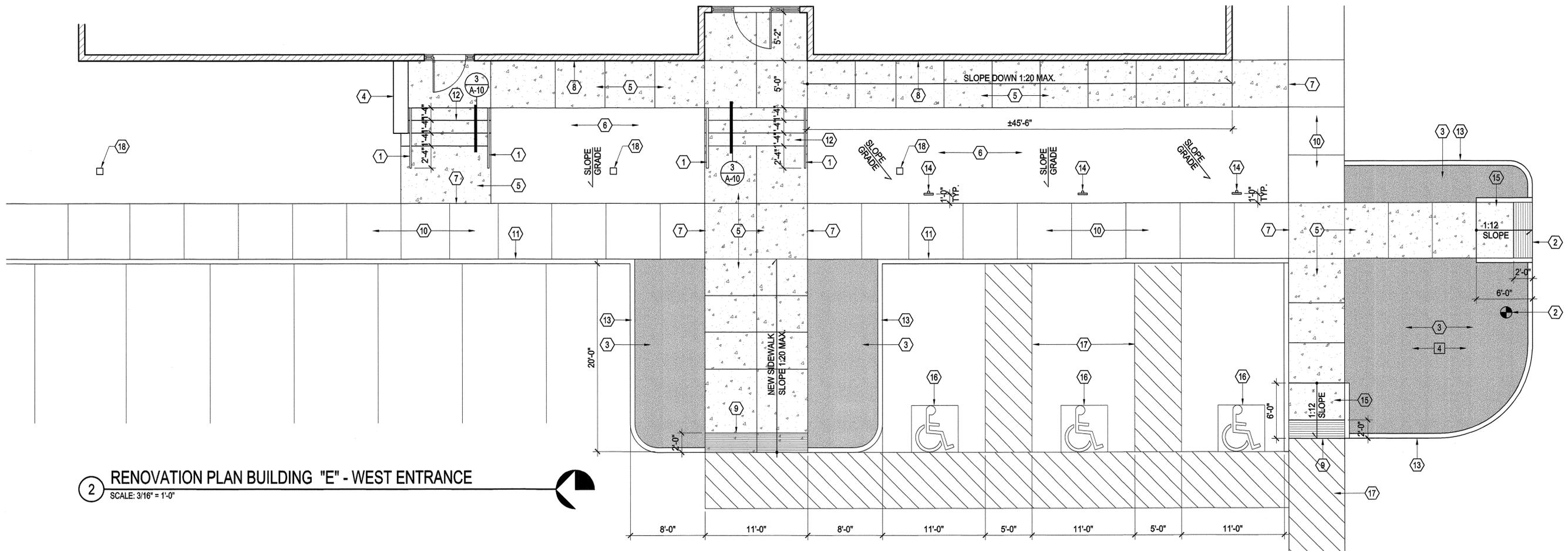
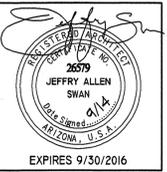
**□ SPECIFIC DEMOLITION ITEMS**

1. REMOVE PAVEMENT AS NECESSARY TO COMPLETE RENOVATION MEASURES.
2. REMOVE CONCRETE STEPS.
3. REMOVE LIGHTING FIXTURES AND RELATED ITEMS.
4. REMOVE CONCRETE SIDEWALK. REFER TO RENOVATION PLAN.
5. REMOVE HANDRAILS AND RELATED ITEMS.
6. REMOVE CONCRETE PEDESTAL.



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**2 RENOVATION PLAN BUILDING "E" - WEST ENTRANCE**  
SCALE: 3/16" = 1'-0"

drawing: BUILDING E - WEST ENTRANCE  
SELECTIVE DEMOLITION AND RENOVATION PLANS

**PINAL COUNTY  
ADMINISTRATIVE COMPLEX IMPROVEMENTS  
FLORENCE, ARIZONA**

project:  
date: August 2014  
drawn: J.A.S.  
checked: J.A.S.  
rev:

project number(s):

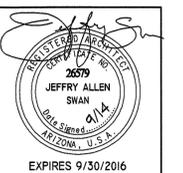
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**A-5**



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drawing: BUILDING "E" - SOUTH ENTRANCE  
SELECTIVE DEMOLITION AND RENOVATION PLANS

project: PINAL COUNTY  
ADMINISTRATIVE COMPLEX IMPROVEMENTS  
FLORENCE, ARIZONA

date: August 2014  
drawn: J.A.S.  
checked: J.A.S.  
rev:

project number(s):

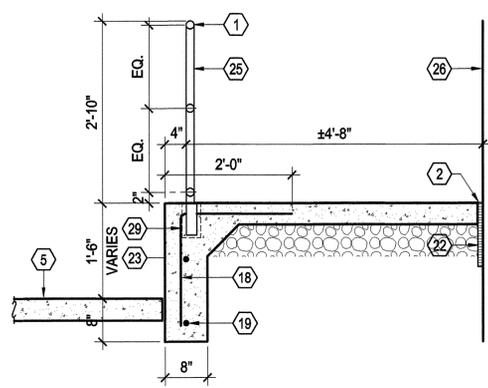
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**SPECIFIC DESCRIPTIVE NOTES**

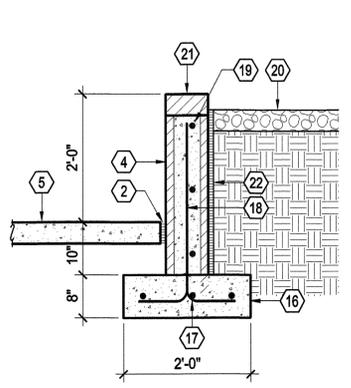
1. PROVIDE 1-1/2" O.D. STANDARD STEEL PIPE HANDRAIL (WITH PAINT FINISH) IN ACCORDANCE WITH ADA GUIDELINES. TOP OF HANDRAIL TO BE AT 2'-10" ABOVE FINISH SURFACE.
2. PROVIDE EXPANSION JOINT, TYPICAL.
3. PLANTER REFER TO LANDSCAPE PLAN.
4. CONSTRUCT 8x4x16 FOUNDERS FINISH CMU RETAINING WALL.
5. CONSTRUCT SIDEWALK WITH LIGHT BROOM FINISH OVER COMPACTED AGGREGATE BASE COURSE.
6. PROVIDE CONCRETE CURB.
7. MATCH ELEVATION OF EXISTING SIDEWALK.
8. PROVIDE SIDEWALK RAMP IN ACCORDANCE WITH ADA GUIDELINES.
9. PROVIDE 2'-0" LONG X SIDEWALK WIDTH SCORED CONCRETE COMPLYING WITH ADA GUIDELINES.
10. EXISTING SIDEWALK TO REMAIN.
11. EXISTING CURB TO REMAIN. REFER TO CIVIL DRAWINGS.
12. CONSTRUCT NEW CONCRETE (NATURAL COLOR) STEPS PER DETAIL 3-A/10.
13. PROVIDE PAINTED LINES COMPLYING WITH ADA GUIDELINES.
14. PROVIDE PAINTED INTERNATIONAL ACCESSIBILITY SYMBOL.
15. PROVIDE ACCESSIBLE PARKING SIGNAGE COMPLYING WITH ADA GUIDELINES.
16. PROVIDE CONCRETE FOOTING.
17. PROVIDE (3) #5'S CONTINUOUS.
18. PROVIDE #5 VERTICAL AT 24" O.C.
19. PROVIDE #5 HORIZONTAL AT 12" O.C.
20. PROVIDE CLEAN FILL AND 2" THICK DECOMPOSED GRANITE.
21. PROVIDE 8x4x16 SOLID CMU CAP.
22. PROVIDE DAMP PROOFING BOARD HELD IN PLACE BY FRICTION.
23. PROVIDE CONCRETE TURNDOWN.
24. PROVIDE 6" DEEP 2" DIAMETER STEEL SLEEVE.
25. PROVIDE VERTICAL 1 1/2" O.D STEEL PIPE AT 5'-0" O.C MAX.
26. EXISTING BUILDING WALL.

**SPECIFIC DEMOLITION ITEMS**

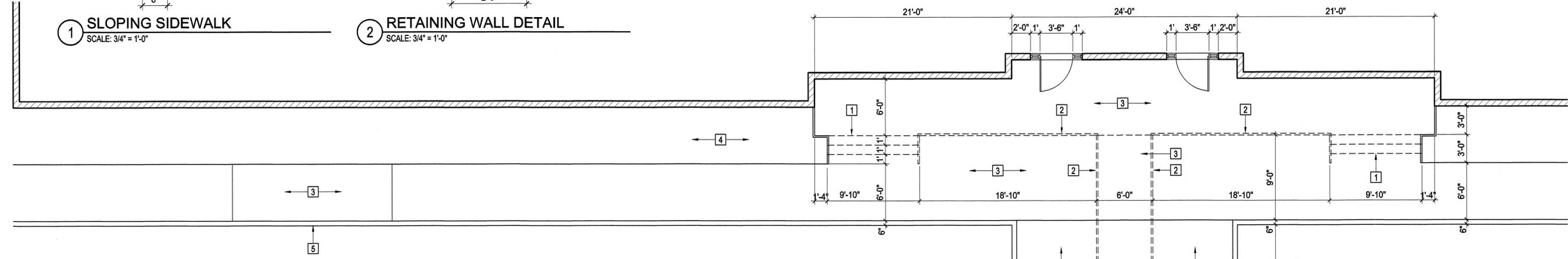
1. REMOVE CONCRETE STEPS.
2. REMOVE HANDRAILS AND RELATED ITEMS.
3. REMOVE CONCRETE SIDEWALK.
4. REMOVE LANDSCAPING AND RELATED ITEMS AS NECESSARY TO COMPLETE RENOVATION WORK.
5. REMOVE CURBS AND RELATED ITEMS AS NECESSARY TO COMPLETE RENOVATION WORK.



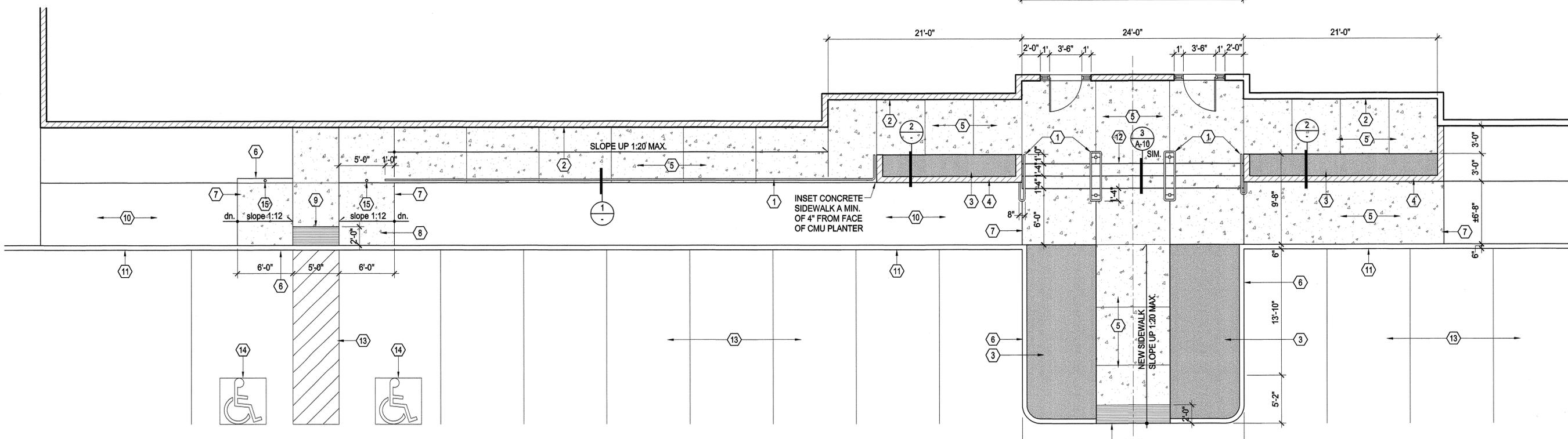
**1 SLOPING SIDEWALK**  
SCALE: 3/4" = 1'-0"



**2 RETAINING WALL DETAIL**  
SCALE: 3/4" = 1'-0"

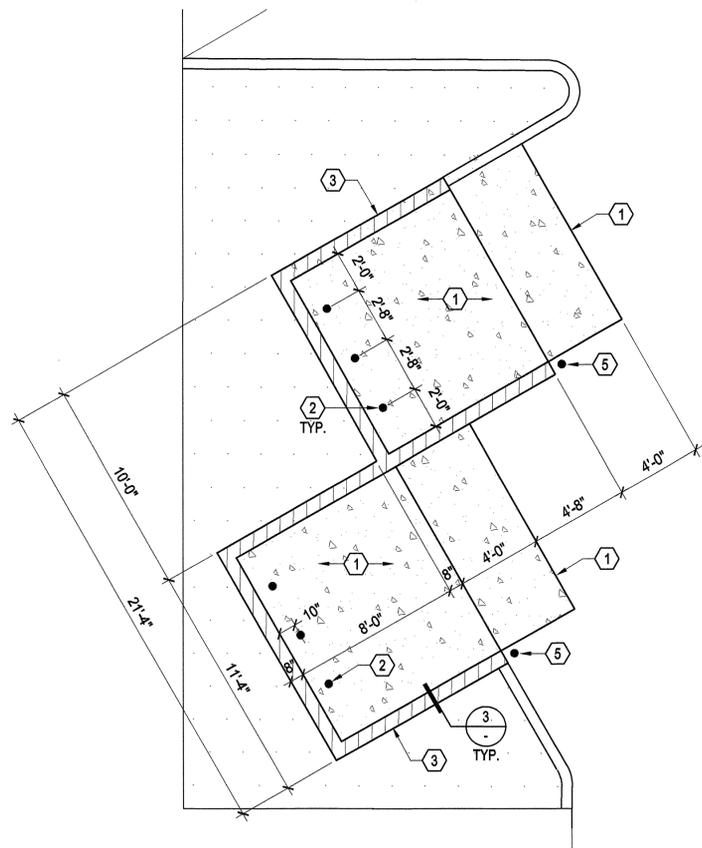


**SELECTIVE DEMOLITION PLAN - BUILDING "E" - SOUTH ENTRANCE**  
SCALE: 3/16" = 1'-0"

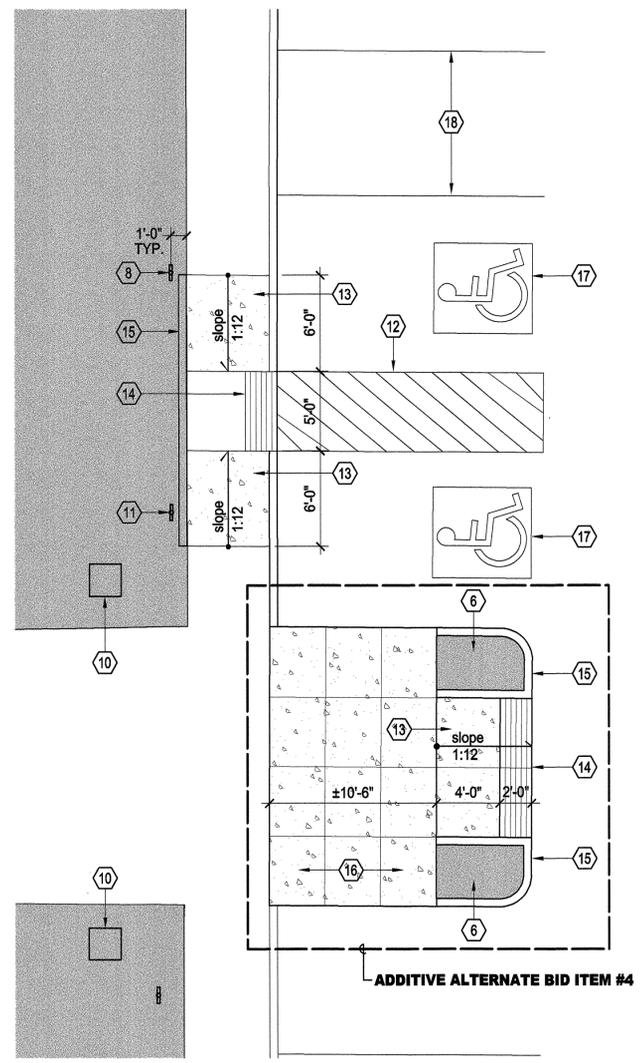


**3 RENOVATION PLAN - BUILDING "E" - SOUTH ENTRANCE**  
SCALE: 3/16" = 1'-0"

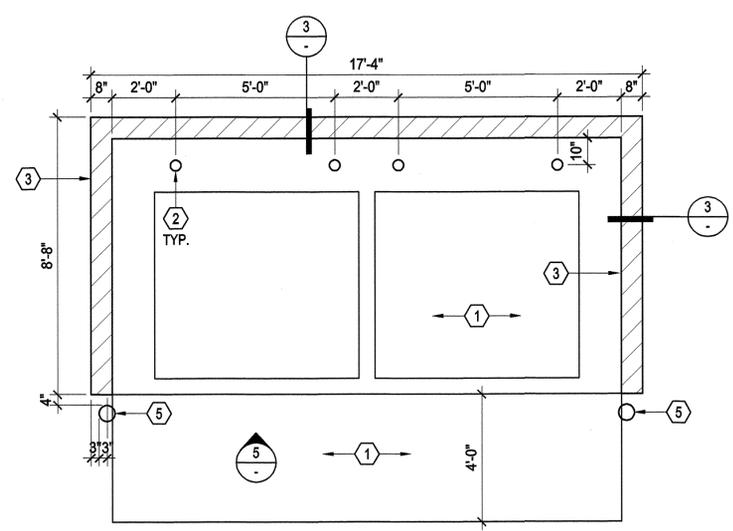




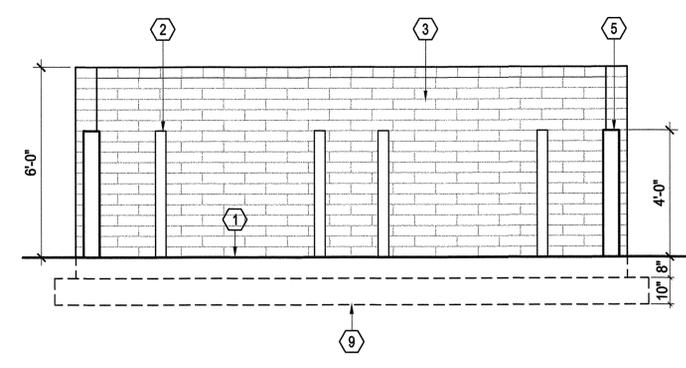
1 TRASH ENCLOSURE PLAN  
SCALE: 1/4" = 1'-0"



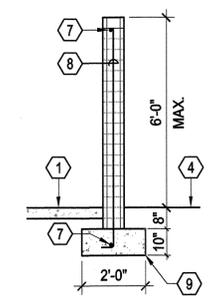
2 RENOVATION PLAN - BUILDING "B"  
SCALE: 3/16" = 1'-0"



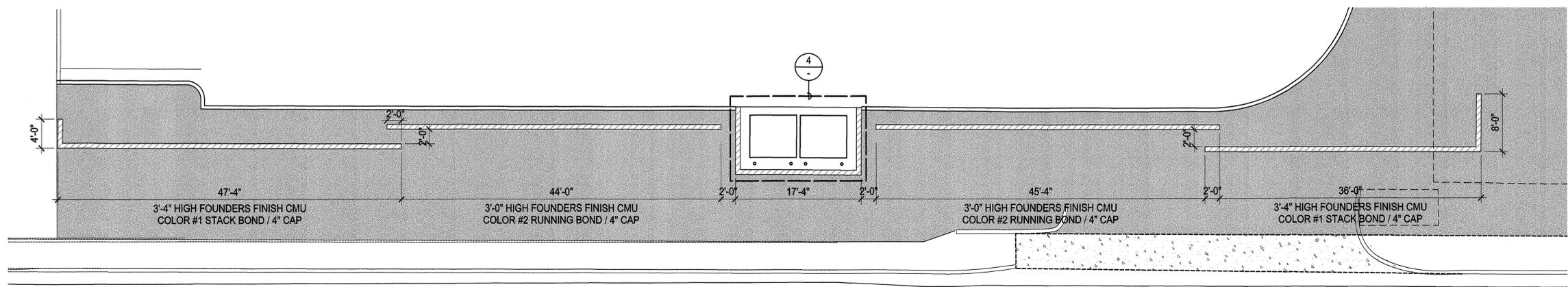
4 TRASH ENCLOSURE PLAN  
SCALE: 3/8" = 1'-0"



5 TRASH ENCLOSURE ELEVATION  
SCALE: 3/8" = 1'-0"



3 CMU WALL SECTION  
SCALE: 3/8" = 1'-0"



3 SCREEN WALL PLAN  
SCALE: 1/8" = 1'-0"

SPECIFIC DESCRIPTIVE NOTES

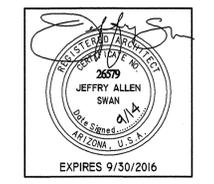
1. PROVIDE 5"-THICK, 3,000 PSI CONCRETE SLAB.
2. PROVIDE 4" DIAMETER X 4'-0" HIGH, ABOVE-GRADE, STEEL PIPE BOLLARD. FILL WITH CONCRETE AND PAINT TRAFFIC YELLOW.
3. PROVIDE 8 X 4 X 16 FOUNDERS FINISH CMU WITH 8 X 4 X 16 SOLID CONCRETE CAP.
4. SLOPE GRADE AWAY FROM ENCLOSURES, TYPICAL.
5. PROVIDE 6" DIAMETER X 4'-0" HIGH, ABOVE-GRADE, STEEL PIPE BOLLARD. FILL WITH CONCRETE AND PAINT TRAFFIC YELLOW.
6. PROVIDE 2" THICK GRANITE OVER CLEAN FILL.
7. PROVIDE #5 HORIZONTAL CONTINUOUS.
8. PROVIDE #5s AT 4'-0" O.C.
9. PROVIDE CONCRETE FOOTING.
10. PROVIDE LIGHT POLE/FIXTURE. REFER TO ELECTRICAL SITE PLAN.
11. PROVIDE ACCESSIBLE PARKING SIGNAGE IN ACCORDANCE WITH ADA GUIDELINES.
12. PROVIDE PAINTED DIAGONAL LINES IN ACCORDANCE WITH ADA GUIDELINES.
13. PROVIDE SIDEWALK RAMP IN ACCORDANCE WITH ADA GUIDELINES.
14. PROVIDE 2'-0" LONG X SIDEWALK WIDTH SCORED CONCRETE IN ACCORDANCE WITH ADA GUIDELINES.
15. CONSTRUCT SINGLE CURB.
16. CONSTRUCT 4" THICK, 3,000 PSI CONCRETE SIDEWALK WITH LIGHT BROOM FINISH.
17. PROVIDE PAINTED INTERNATIONAL ADA SYMBOL IN ACCORDANCE WITH ADA GUIDELINES.
18. PROVIDE PAINTED LINES, TYPICAL.



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drawing: RENOVATION PLANS AND DETAILS

project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

date: August 2014  
drawn: J.A.S.  
checked: J.A.S.  
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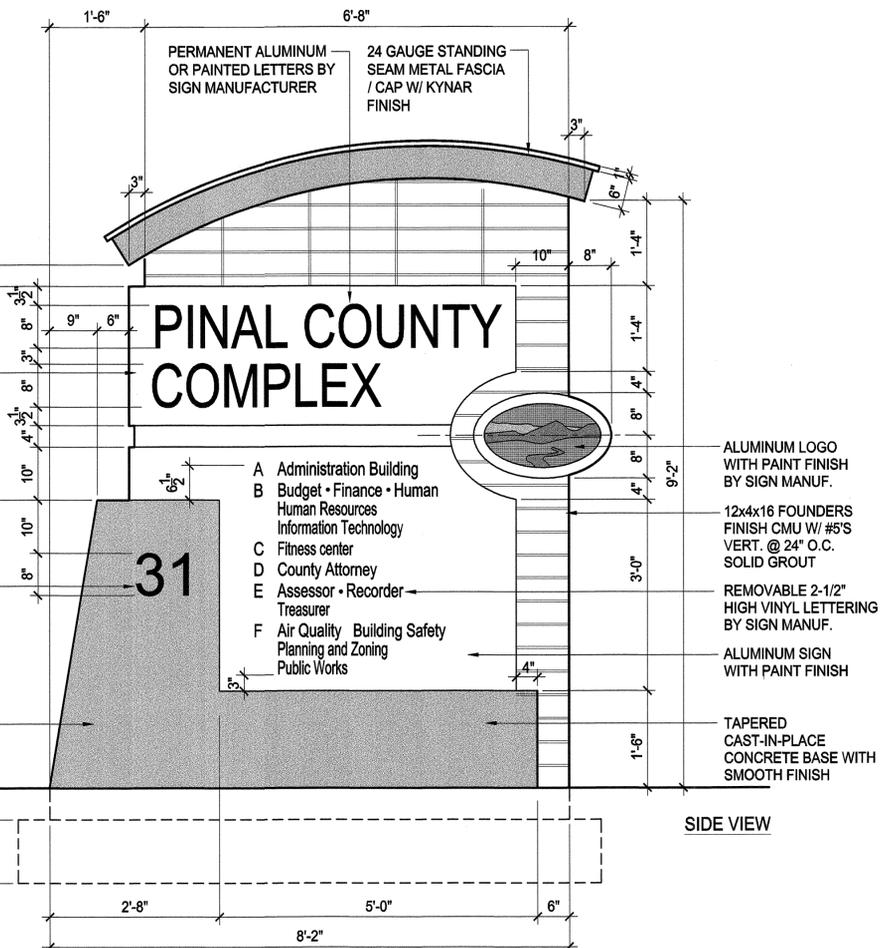
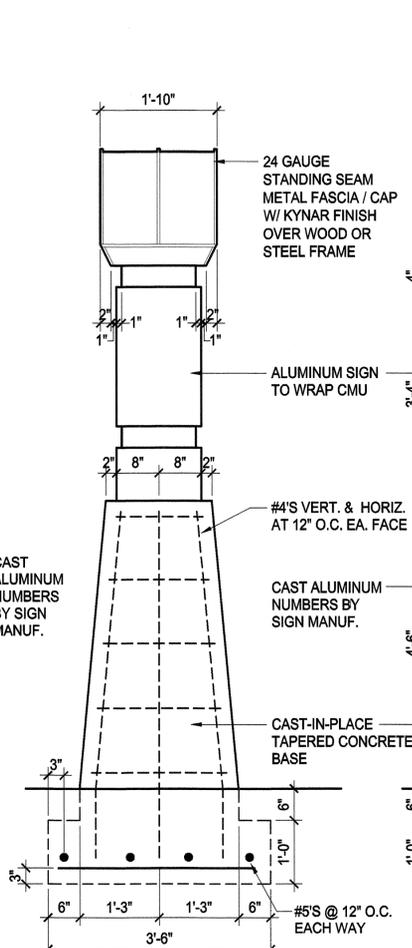
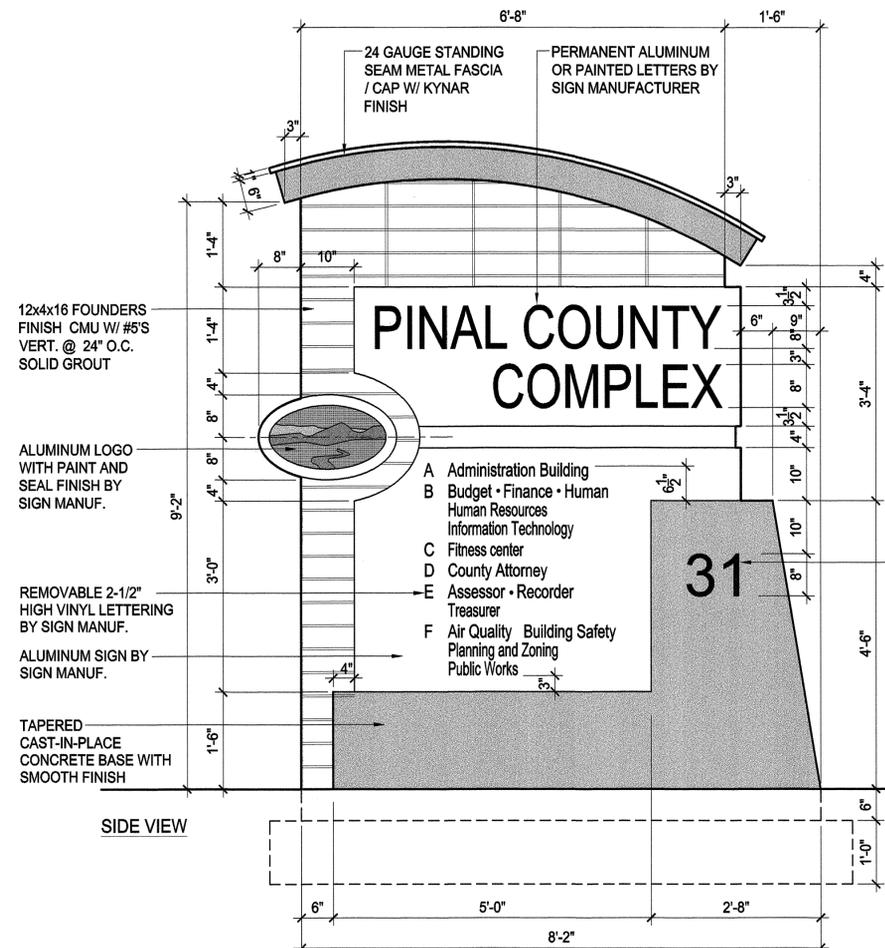
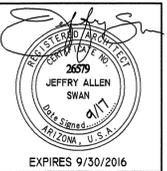
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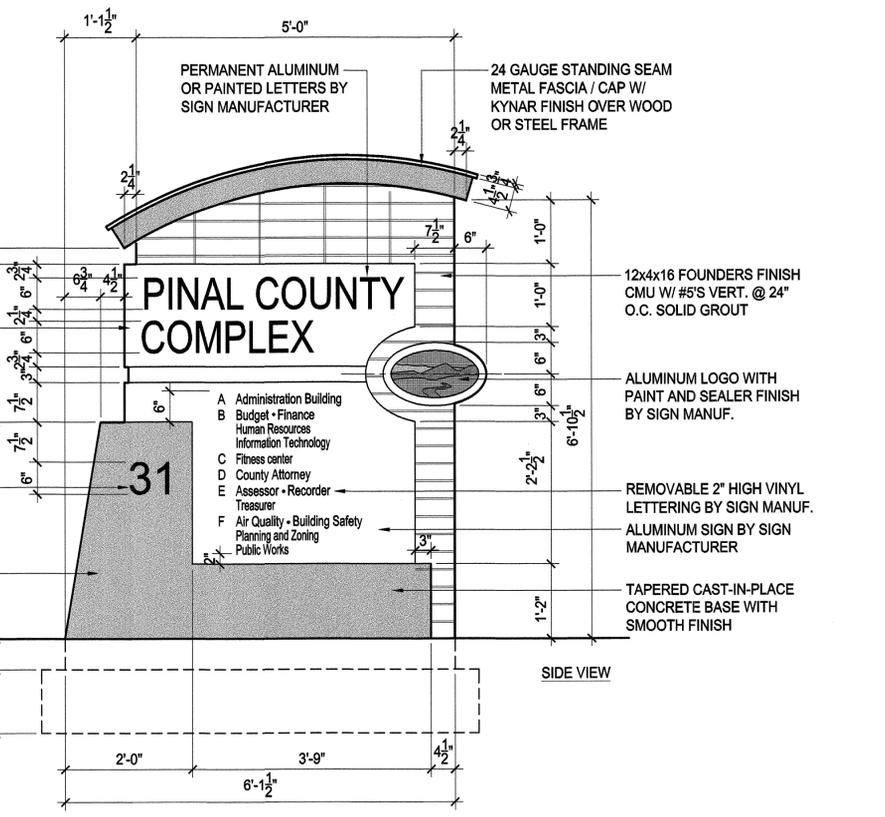
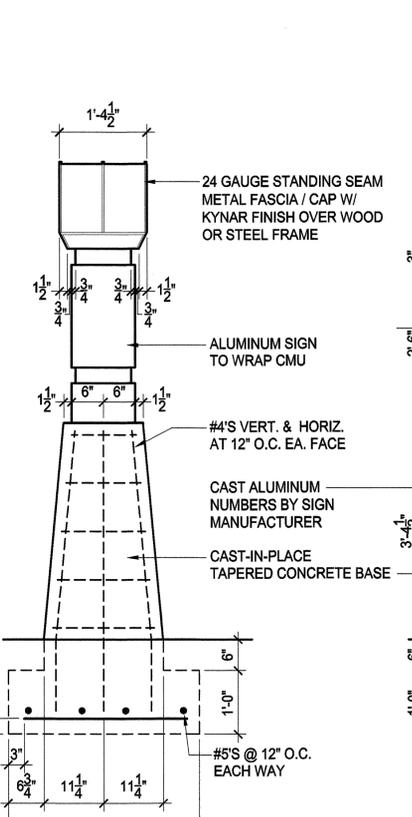
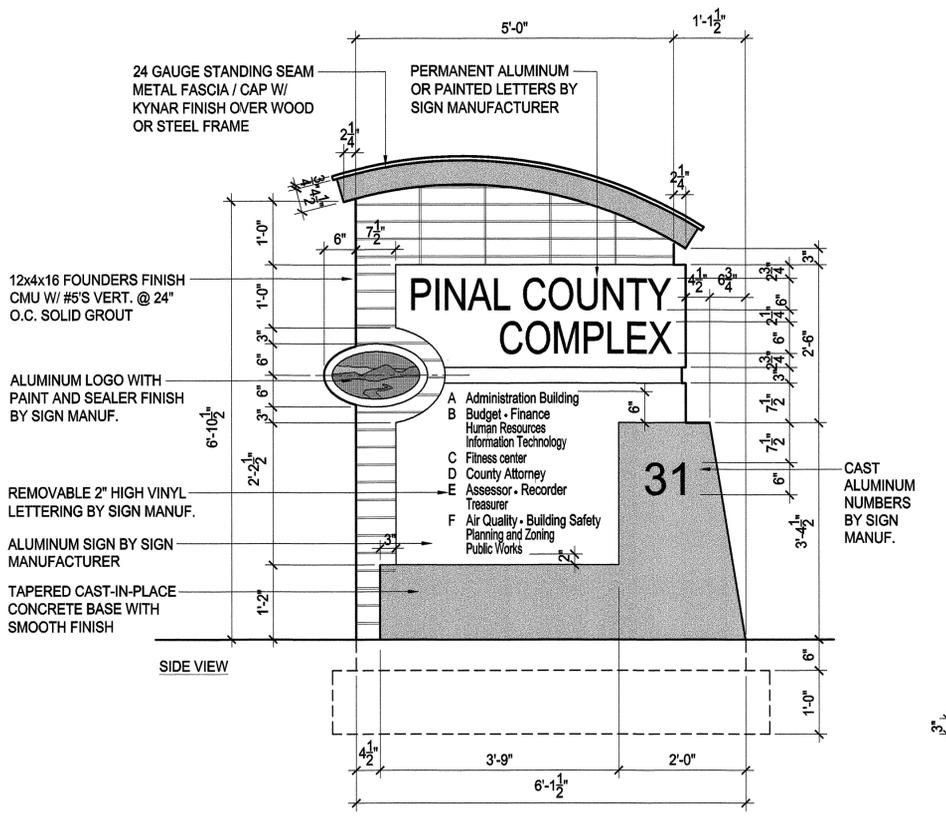
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85003  
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Fax: 602-274-7658



**1 LARGE MONUMENT SIGN - ADDITIVE BID ITEM #3**  
SCALE: 3/4" = 1'-0"  
NOTE:  
SUBMIT DETAILED SHOP DRAWINGS FOR APPROVAL



**2 SMALL MONUMENT SIGN - ADDITIVE BID ITEM #3**  
SCALE: 3/4" = 1'-0"  
NOTE:  
SUBMIT DETAILED SHOP DRAWINGS FOR APPROVAL

drawing: ARCHITECTURAL DETAILS  
project: **PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA**

date: September 2014  
drawn: J.A.S.  
checked: J.A.S.  
rev:

project number(s):

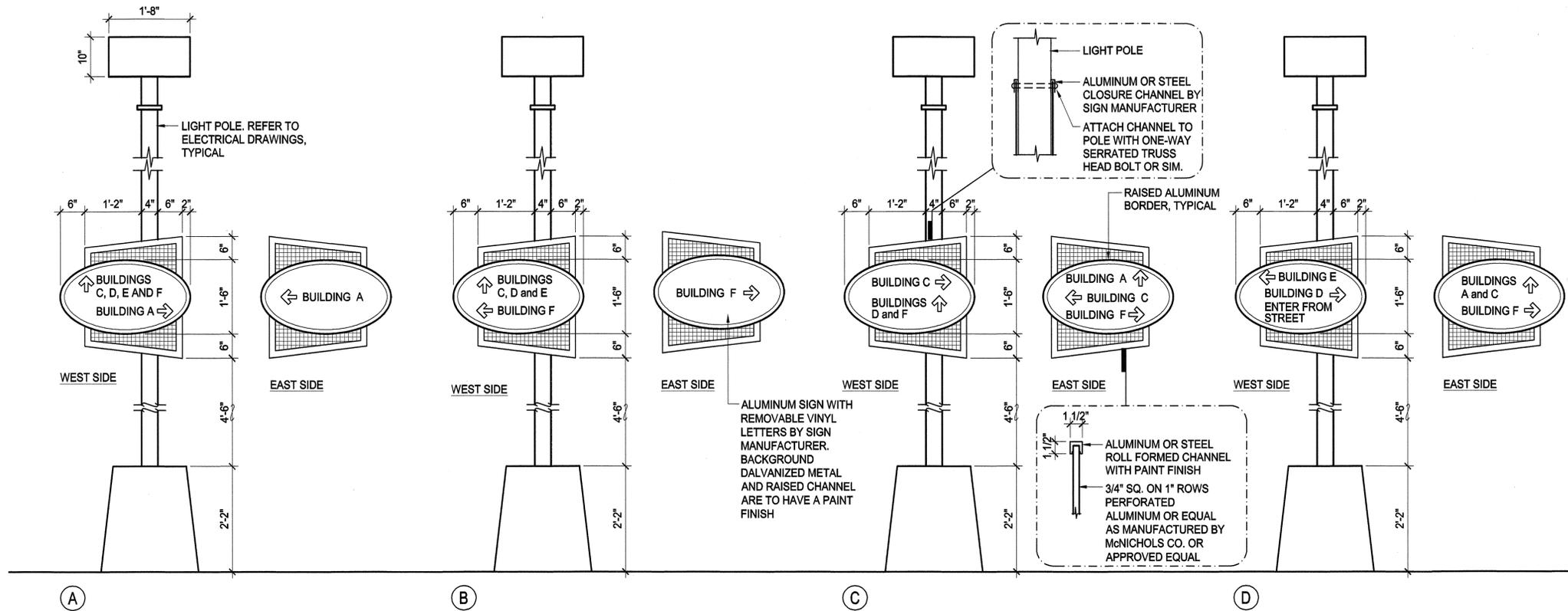
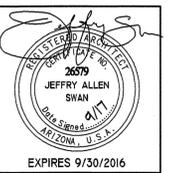
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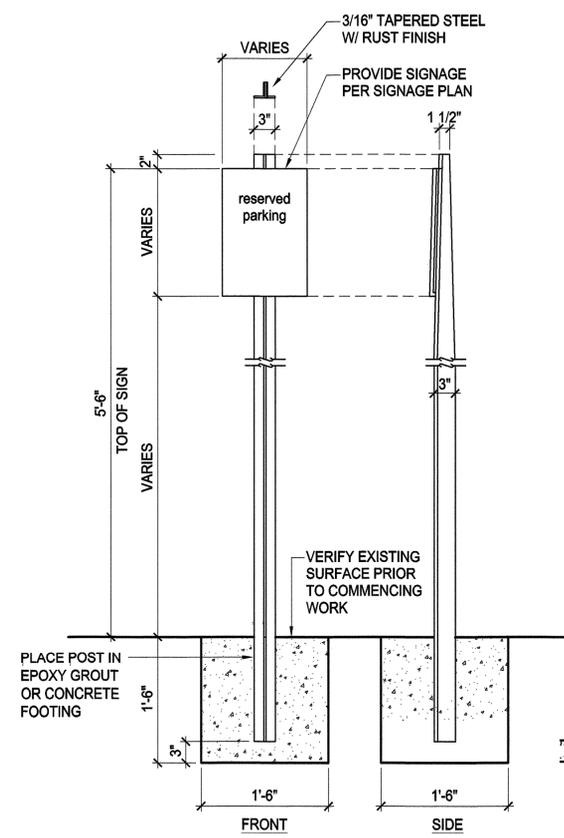
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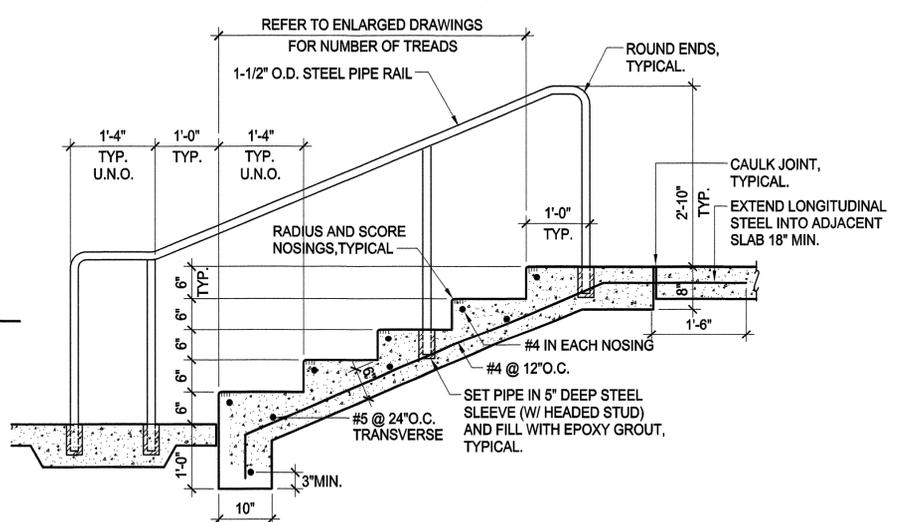
833 N. 5th Ave.  
Phoenix, AZ  
85003  
Tel: 602-264-3083  
Fax: 602-274-7658



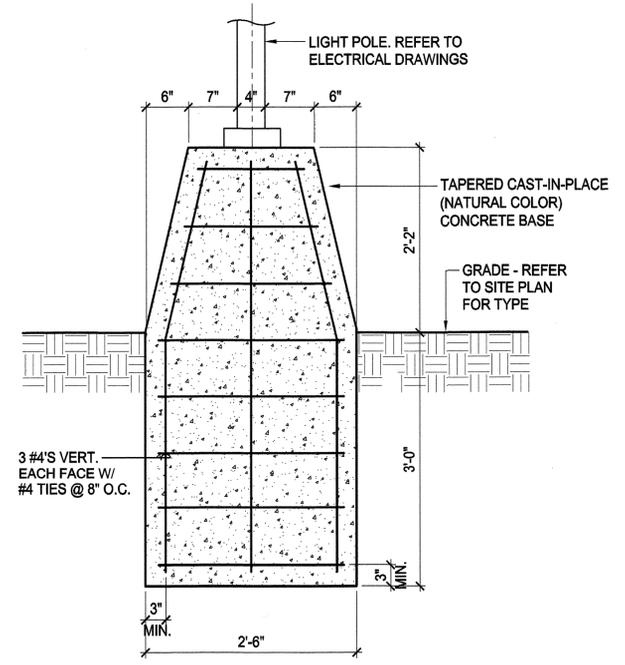
1 DIRECTIONAL SIGNAGE - ADDITIVE BID ITEM #3  
SCALE: 3/4" = 1'-0"



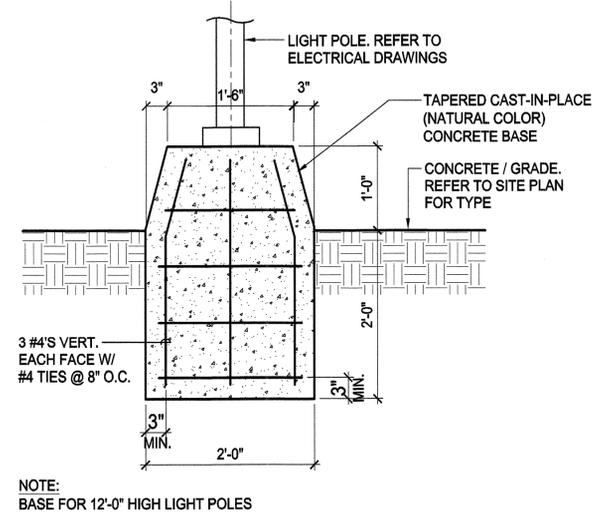
2 TYPICAL POST SIGN  
SCALE: 1" = 1'-0"



3 TYPICAL CONCRETE STAIR DETAIL  
SCALE: 3/4" = 1'-0"



4 TYPICAL TALL LIGHT POST BASE  
SCALE: 1" = 1'-0"



5 TYPICAL LOW LIGHT POST BASE  
SCALE: 1" = 1'-0"

drawing: ARCHITECTURAL DETAILS

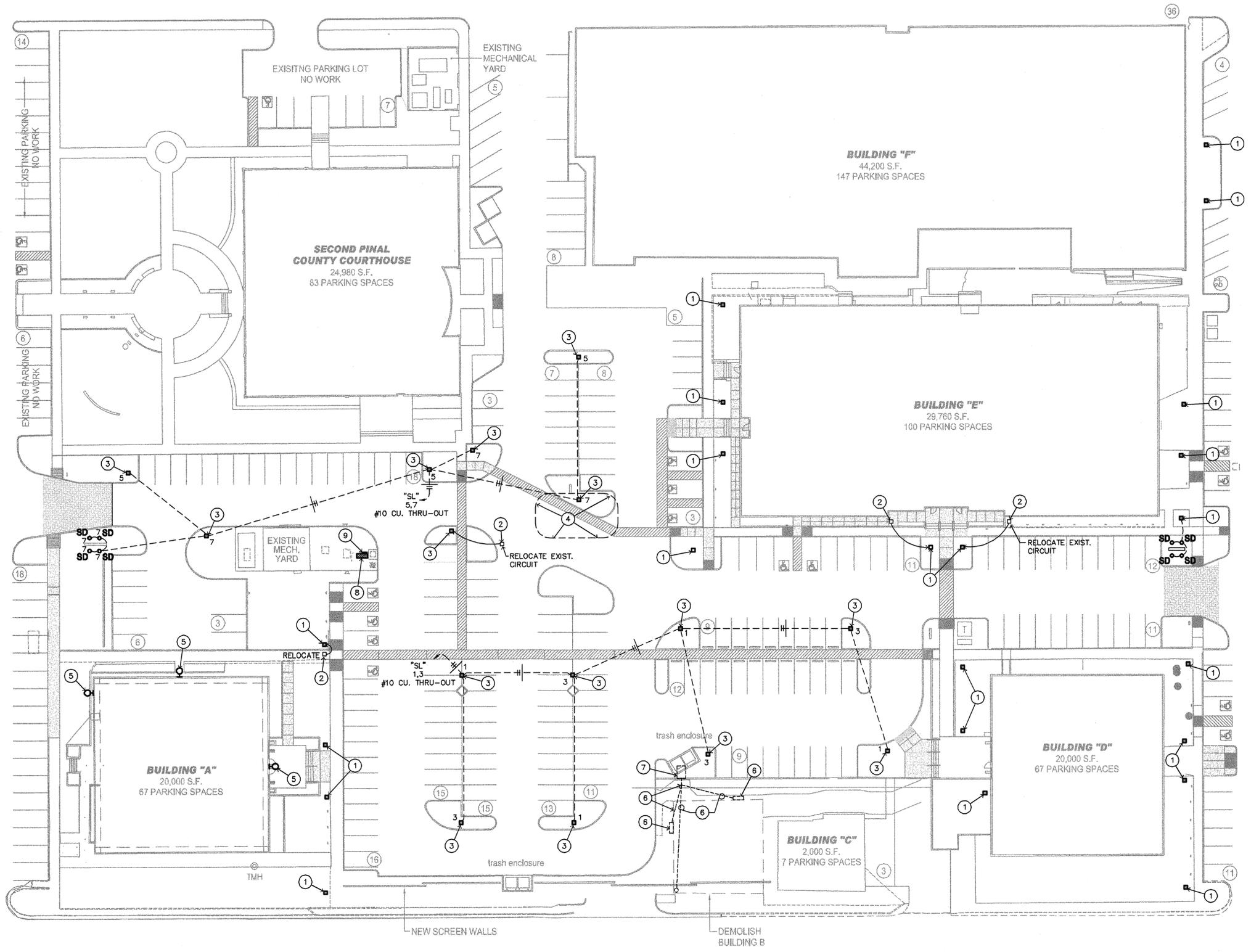
project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

date: September 2014  
drawn: J.A.S.  
checked: J.A.S.  
rev:

project number(s):

sheet:  
**A-10**

NORTH PARKING LOT  
120 SPACES



**# KEYED NOTES:**

- 1 NEW TYPE "SA" POLE LIGHT AND BASE TO REPLACE EXISTING GLOBE LIGHT. SEE DETAIL 1/E-3. REMOVE EXISTING POLE AND BASE AND RE-USE EXISTING CIRCUIT. LOAD REDUCED.
- 2 DISCONNECT AND REMOVE EXISTING GLOBE LIGHT, POLE AND CONCRETE BASE. REUSE/EXTEND EXISTING CIRCUIT TO NEW POLE LIGHT LOCATION. SEE DETAIL 1/E-3.
- 3 NEW TYPE "SB" POLE LIGHT AND BASE. SEE DETAIL 2/E-3.
- 4 DISCONNECT AND REMOVE EXISTING RECESSED FLAG POLE LIGHTING AND CIRCUITING.
- 5 DISCONNECT AND REMOVE EXISTING METAL HALLIDE WALL PACK, REPLACE WITH NEW FIXTURE TYPE "SC".
- 6 DISCONNECT AND REMOVE EXISTING S.E.S. AND OVERHEAD APS SECONDARY.
- 7 DISCONNECT AND REMOVE EXISTING POWER POLE AND POLE LIGHT.
- 8 EXISTING S.E.S. SEE ENLARGED PLAN ON SHEET E2.0.
- 9 LOCATION OF NEW PANEL "SL".



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drawing: ELECTRICAL SITE PLAN

project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

date: SEPT. 2014  
drawn: DW  
checked: DW  
rev:

project number(s):

sheet:  
**E-1**

**ELECTRICAL SITE PLAN**  
SCALE: 1:30

**mw** Job No. 14179  
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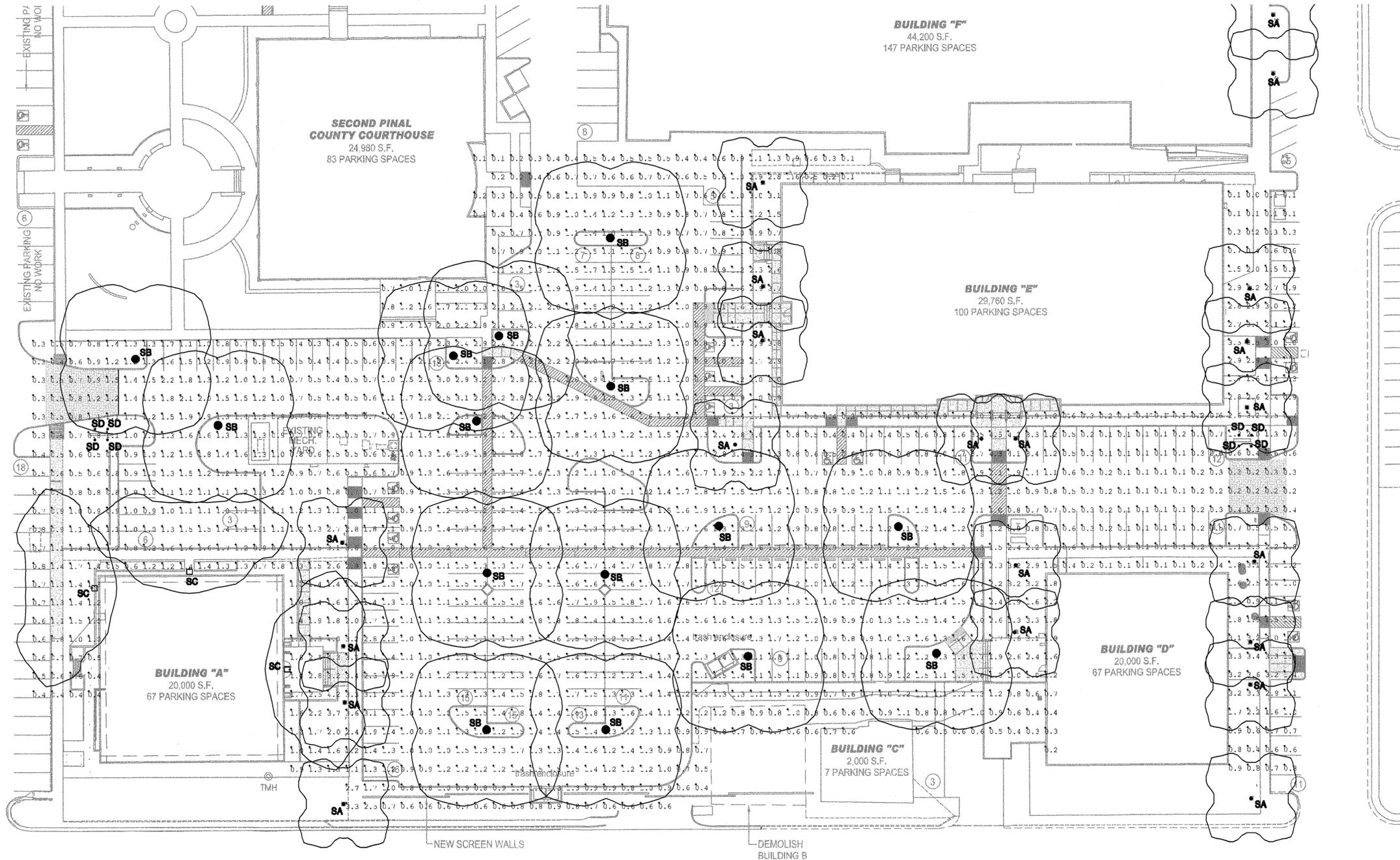
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Label	Symbc.	MANUFACTURER	Description	MTG HEIGHT	MOUNTING	LLF	Lum. Lumens	Lum. Watts	Qty
SA	●	RIM LIGHTING	FM-CC17P5E35-60L4K	12' MTG HT.	SINGLE	0.810	5106	63.6	19
SB	●	RIM LIGHTING	FM-CC255P35-96L4K	20' MTG HT.	SINGLE	0.810	11100	104.3	15
SC	□	RIM LIGHTING	WD-8C3E35-120L4K	25' MTG HT.	SINGLE	0.810	9206	125.3	3
SD	○	RIM LIGHTING	LTV83FF-NF-12L4K	=N-GRADE	SINGLE	0.810	885	13.6	8

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	Illuminance	Fc	1.27	4.5	0.0	N.A.	N.A.



### ELECTRICAL SITE PLAN PHOTOMETRICS

SCALE: 1:30



drawing: SITE PHOTOMETRIC PLAN

project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

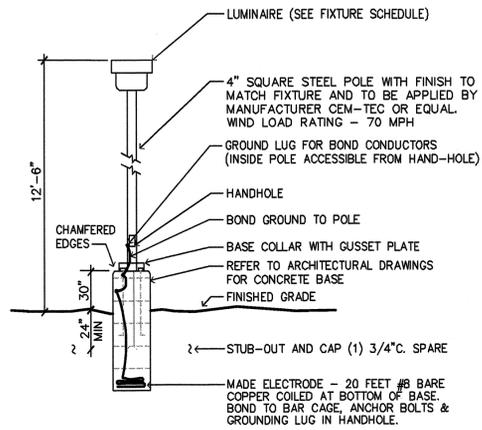
date: SEPT. 2014  
drawn: DW  
checked: DW  
rev:

project number(s):

sheet:

E-2

Job No. 14179  
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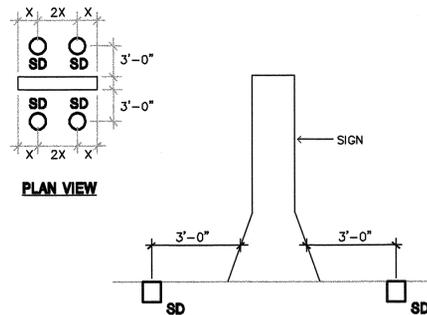


1 POLE LIGHT FIXTURE 'SA' DETAIL

N.T.S.

**NOTE:**

LIGHT FIXTURE DETAIL SHOWN FOR SCHEMATIC PURPOSES ONLY. GENERAL CONTRACTOR SHALL OBTAIN FINAL ENGINEERED POLE BASE DETAIL FROM POLE MANUFACTURER OR STRUCTURAL ENGINEER PRIOR TO ANY WORK.

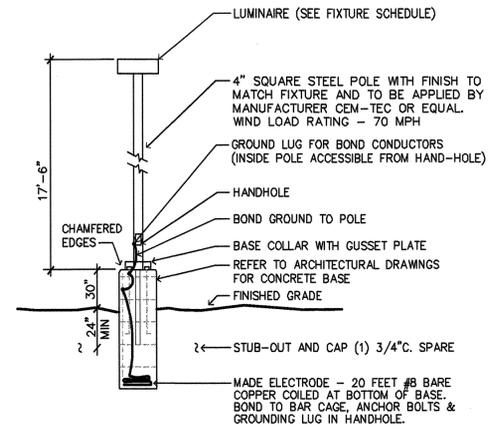
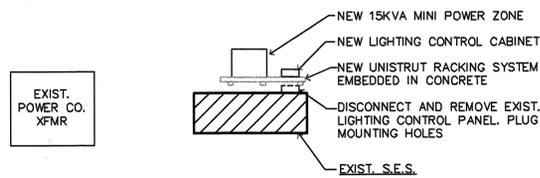


3 POLE LIGHT FIXTURE 'SD' DETAIL

N.T.S.

4 ENLARGED S.E.S. AREA

N.T.S.



2 POLE LIGHT FIXTURE 'SB' DETAIL

N.T.S.

**NOTE:**

LIGHT FIXTURE DETAIL SHOWN FOR SCHEMATIC PURPOSES ONLY. GENERAL CONTRACTOR SHALL OBTAIN FINAL ENGINEERED POLE BASE DETAIL FROM POLE MANUFACTURER OR STRUCTURAL ENGINEER PRIOR TO ANY WORK.

**SITE LIGHTING FIXTURE SCHEDULE**

MARK	DESCRIPTION	MFR.	CATALOG #	VOLT.	LAMPS TYPE	MT'G. HT.	LUMENS	LLF
SA	LED PEDESTAL POLE LIGHT	KIM	FM-CC17P5E35 60L4K	120	FURN. W/FIXTURE	12'	--	--
SB	LED POLE LIGHT	KIM	FM-CC25SP35 96L4K	120	FURN. W/FIXTURE	20'	--	--
SC	LED WALL PACK	KIM	WD18D3E35 120L4K	120	FURN. W/FIXTURE	25'	--	--
SD	IN-GRADE LED SIGN LIGHT	KIM	LTV83FF-NF 12L4K	120	FURN. W/FIXTURE	IN-GRADE	--	--

PANEL	SL	60 AMP	120/208V., 3Ø, 4W	MAIN	60/3 C.B.	NEMA 3R	SURF MTD
LOCATION	SEE PLAN	TYPE	P.O.	BREAKER RATING	25,000 AIC		
USE/AREA SERVED	CB No	LOAD	No	CB	USE/AREA SERVED		
LTG - SITE	20, 1	512	2	1	CONTROL CIRCUIT		
LTG - SITE	20, 3	150	512	4	SPARE		
LTG - SITE	20, 5		384	6	SPARE		
LTG - SITE	20, 7	388		8	SPARE		
SPACE	9			10	SPACE		
SPACE	11			12	SPACE		
SPACE	13			14	SPACE		
SPACE	15			16	SPACE		
SPACE	17			18	SPACE		
SPACE	19			20	SPACE		
TOTAL (CONNECTED)		1030	512	384			
25 % CONTINUOUS		258	128	96			
TOTAL (CODE)		1288	640	480	1288 VA / 120V. = 10.7 A		

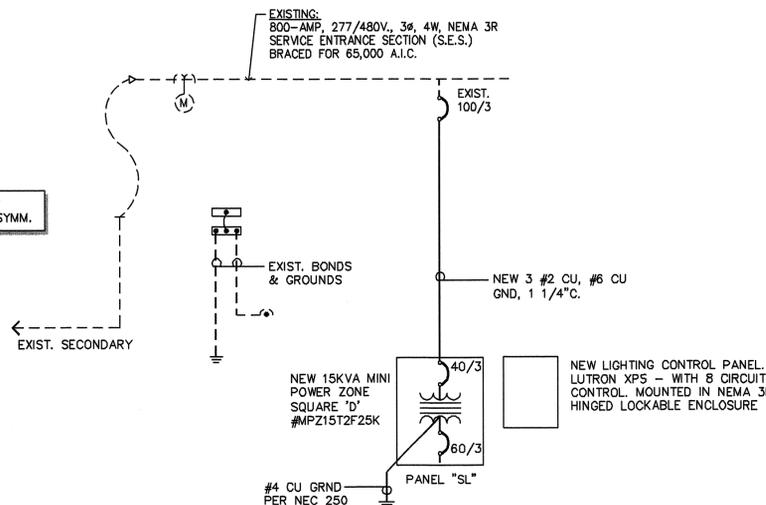
○ CIRCUIT THRU LIGHTING CONTROL PANEL

**SHORT CIRCUIT CALCULATIONS**

FAULT DESIG.	PANEL	LOAD AMPS	LENGTH (FT.)	SOURCE SHORT CKT AMPS	"1" OR "3" PHASE?	# OF CDTRS/ PHASE	"CU" OR "AL"	CDR SIZE (avg/kcmil)	METAL CONDUIT? "Y" OR "N"	"C" VALUE	X F M R				V	f	m	SOURCE lsc (amps)	MOTOR CONTRIB.	TOTAL lsc (amps)
											XMFR KVA	PRI VOLTS	DEG. C RISE (115/150)	% Z						
F1	Panel SL	40	15	51,512	3	1	CU	#1	Y	7282	15	480	150	3.5	480	53.0863	0.0185	51512	0	51,512

**LOAD CALCULATION:**

<b>EXISTING LOADS:</b>	
EXISTING HIGH DEMAND	= 311.6 KW
$\frac{311.6 \text{ KW}}{.8 \text{ pf}} \times 125\% + 480 \sqrt{3}$	= 585.8 AMPS
<b>NEW LOADS:</b>	
NEW LOADS	= 4.6 AMPS
TOTAL LOAD ON S.E.S.	= 590.4 AMPS



**EXISTING ONE-LINE DIAGRAM**

NOTES: 1. ALL EQUIPMENT & INSTALLATIONS ARE EXISTING UNLESS NOTED AS 'NEW'.  
2. ELECTRICAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO ANY WORK.  
3. ALL CONDUCTOR SIZES BASED ON TYPE 'XHHW' & 'THHN/THWN' COPPER.



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drawing: ELECTRICAL ONE-LINE DIAGRAM AND DETAILS

project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

date: SEPT. 2014  
drawn: DW  
checked: DW  
rev:

project number(s):

sheet:  
E-3



**ELECTRICAL SYMBOLS** (NOTE: ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT)

- FLUORESCENT FIXTURE
- FLUORESCENT FIXTURE WITH EMERGENCY BATTERY PACK, 1100 LUMENS  
NL = NIGHT LIGHT - UNSWITCHED  
EM = LINE SENSITIVE - OPERATES ONLY ON POWER OUTAGE - SWITCHED
- CEILING MOUNTED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- FLUORESCENT FIXTURE
- EXIT SIGN - SEE LIGHT FIXTURE SCHEDULE
- SURFACE-MOUNT EMERGENCY LIGHTING BATTERY PACK-SINGLE OR DOUBLE HEAD- SEE LIGHT FIXTURE SCHEDULE
- RECESSED EMERGENCY LIGHTING BATTERY PACK-SINGLE OR DOUBLE HEAD- SEE LIGHT FIXTURE SCHEDULE
- JUNCTION BOX IN ACCESSIBLE LOCATION ABOVE REMOVABLE CEILING W/ FLEXIBLE CONDUIT CONNECTION TO LIGHT FIXTURE
- FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT
- JUNCTION BOX IN ACCESSIBLE LOCATION
- DUPLEX CONVENIENCE RECEPTACLE AT +15" A.F.F. TO BOTTOM OR AS NOTED
- FOUR-PLEX CONVENIENCE RECEPTACLE AT +15" A.F.F. TO BOTTOM OR AS NOTED
- ISOLATED GROUND RECEPTACLE AT + 15" A.F.F. TO BOTTOM OR AS NOTED
- RECEPTACLE (TYPE AS SHOWN) AT + 42" A.F.F.
- SPECIAL USE RECEPTACLE. VERIFY NEMA NUMBER AND MOUNTING HEIGHT WITH EQUIPMENT
- TOGGLE SWITCH - SINGLE POLE, 3-WAY, 4-WAY AT +42" OR AS NOTED ON PLANS.
- SINGLE-POLE, ILLUMINATED HANDLE OR PILOT LIGHT TOGGLE SWITCH AT +42" OR AS NOTED ON PLANS
- MOTOR RATED SWITCH WITH THERMAL PROTECTION
- MOTOR SPEED CONTROL SWITCH. FURNISHED BY ELECTRICAL CONTRACTOR.
- PHOTOCCELL - TORK #2100 - MOUNT ON ROOF AND AIM NORTH
- TIMESWITCH: TORK 'W' SERIES OR EQUAL
- CIRCUIT IN CONDUIT, CONCEALED. HASH MARKS INDICATE QUANTITY OF CONDUCTORS NO HASH MARKS INDICATE TWO CONDUCTORS, PLUS GROUND(S). (NOTE: WIRE AND OR CONDUIT SIZE SHOWN AT HOMERUN IS THE MINIMUM SIZE FOR THE ENTIRE CIRCUIT: #12 A.W.G. CU, 1/2" C. MINIMUM). LONG STROKE(S) INDICATE NEUTRAL CONDUCTOR(S), SHORT STROKES INDICATE PHASE OR SWITCHED CONDUCTORS AND LONG STROKES WITH DOT INDICATE GREEN INSULATED GROUNDING CONDUCTOR(S) TYPICAL. EACH ISOLATED GROUND CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GROUND WIRE. BOND WIRES ARE NOT SHOWN ON DRAWINGS. BOND WIRES SHALL BE INSULATED CU. SIZED IN ACCORDANCE WITH N.E.C. #250.
- CIRCUIT IN CONDUIT CONCEALED IN WALLS
- CIRCUIT IN CONDUIT CONCEALED IN FLOORS OR ABOVE CEILING
- HOMERUN TO PANELBOARD OR AS NOTED
- PANELBOARD, MOUNT TOP OF PANEL AT + 6"-8". STUB (2) 3/4" E.C. INTO ACCESSIBLE CEILING SPACE ON FLUSH MOUNTED PANELS.
- MOTOR: SIZE AND RATING AS SHOWN. EF INDICATES 55-WATT, 120V. EXHAUST FAN
- A.C. MAGNETIC STARTER BY ELECTRICAL CONTRACTOR. HORSEPOWER, VOLTAGE AND PHASE RATED, NUMBER OF POLES REQUIRED. FURNISH WITH (1) N.O. AUXILIARY CONTACT (120 V. CONTROL) SINGLE SPEED NON-REVERSING UNLESS OTHERWISE SHOWN ON PLAN
- DISCONNECT SWITCH - HORSEPOWER RATED, FUSED, NEMA 3R WHERE OUTSIDE. N.F. INDICATES NON-FUSED. FUSE PER EQUIPMENT MANUFACTURERS' SPECIFICATIONS.)
- STRIP HEATER AND CONTROL
- MOTOR CONTROLLER - FURNISHED WITH EQUIPMENT
- TELEPHONE OUTLET AT +15" TO BOTTOM OR AS NOTED WITH 3/4"C. UP INTO ACCESSIBLE CEILING SPACE UNLESS SHOWN OTHERWISE
- PAY PHONE OUTLET AT + 42" A.F.F. OR AS NOTED WITH 3/4"C. TO T.M.B.
- DATA OUTLET AT + 15" A.F.F. TO BOTTOM OR AS NOTED. STUB 3/4"C. INTO ACCESSIBLE CEILING SPACE
- DATA/TELEPHONE OUTLET AT + 15" A.F.F. TO BOTTOM OR AS NOTED. STUB 3/4"C. INTO ACCESSIBLE CEILING SPACE
- APPROVED TEMPERATURE SEAL-OFF AND EXPANSION JOINTS AS REQ'D BY N.E.C. ART. #300-2
- FLUSH FLOOR FOURPLEX OUTLET AND DATA/TELEPHONE OUTLET COMBO WITH BRASS DEVICE PLATE
- FLUSH FLOOR DATA RECEPTACLE WITH BRASS COVER PLATE AND 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING LOCATION
- FLUSH FLOOR TELEPHONE RECEPTACLE WITH BRASS COVER PLATE AND 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING LOCATION
- FLUSH FLOOR DUPLEX OUTLET WITH BRASS DEVICE PLATE
- FLUSH FLOOR FOURPLEX OUTLET WITH BRASS DEVICE PLATE
- ISOLATED GROUND RECEPTACLE "HUBBELL" # IG5263 20A, 125V, FLUSH FLOOR WITH BRASS DEVICE PLATE
- TELEVISION OUTLET AT + 15" TO BOTTOM OR AS NOTED. STUB 3/4"C INTO ACCESSIBLE CEILING SPACE
- DIMMER SWITCH AT + 42" A.F.F. "LUTRON" NP SERIES. SIZE DIMMER FOR LOAD. TRACK LIGHTING SHALL HAVE "LUTRON" NP2000 DIMMER
- A.D.A.-APPROVED FIRE ALARM STROBE
- A.D.A.-APPROVED FIRE ALARM HORN/STROBE
- A.D.A.-APPROVED FIRE ALARM PULL STATION
- A.D.A.-APPROVED SMOKE DETECTOR MOUNTED IN CEILING OR AS INDICATED
- OCCUPANCY SENSOR (OVAL TECHNOLOGY) 1000 WATT CEILING MOUNTED AS MANUFACTURED BY WATT STOPPER (NO SUBSTITUTIONS)
- WEATHER PROOF
- ELECTRIC DRINKING FOUNTAIN
- SERVICE ENTRANCE SECTION
- T.M.B. TELEPHONE MOUNTING BOARD: 4' X 8' X 3/4" PLYWOOD WITH #6 CU. BOND WIRE TO GROUNDING ELECTRODE SYSTEM
- T.T.C. TELEPHONE TERMINAL CABINET: 36" W. X 36" H X 6" D 16 GA. WEATHERPROOF HINGED LOCKABLE COVER, 5/8" PLYWOOD BACKBOARD. PROVIDE A #6 CU BOND TO GROUNDING ELECTRODE SYSTEM

**ELECTRICAL SYSTEM SPECIFICATIONS - DIVISION 16000**

1. GENERAL CONDITIONS
 

The General Provisions of the Contract, including the Conditions of the Contract (General, Supplementary and other Conditions) and Division 1 - General Requirements as appropriate, apply to the work specified in this Section.
2. SCOPE OF WORK
 

The work included under this section consists of furnishing all materials, equipment, and labor and the performing of all functions, except as otherwise specified herein or shown on the drawings to be performed by others, for the installation and placing into operation of a complete electrical system as specified and shown on the drawings.
3. GENERAL DESCRIPTION
 

3.1 The work in general shall consist of, but is not necessarily limited to the following.

  - 3.1.1 Furnishing and installing all fixtures with lamps as indicated on the drawings and as specified herein unless noted.
  - 3.1.2 Furnishing and installing all electrical work, panels, service, conduit, wiring, etc., for all outlets and equipment.
  - 3.1.3 Furnishing and installing all telephone outlets, conduits with pull strings and telephone mounting boards including conduit from telephone mounting board to the building entrance as indicated on the plan.
  - 3.1.4 Furnishing and installing a complete Fire Alarm system as indicated on plans.
  - 3.1.5 Include \$ hundred dollars) allowance for power and telephone company utility service charges. Difference between actual cost and allowance to be credited or billed to the Owner.
  - 3.1.6 Furnishing and installing all motor starters and control components, not specifically specified to be furnished in accordance with other sections of the specifications.
  - 3.1.7 Furnishing and installing all power and wiring except that which is pre-wired in factory assembled equipment.
  - 3.1.8 Installing all LINE VOLTAGE mechanical control wiring and associated controls which are furnished by the Mechanical Contractor (low voltage control wiring and controls shall be furnished and installed by the Mechanical Contractor).
  - 3.1.9 Painting work as described under other sections of these specifications. Clean and prepare all surfaces ready for painting.
  - 3.1.10 Provide temporary construction power as outlined below. This service shall be maintained throughout the entire job as the work progresses. Provide outlets at convenient points and in sufficient numbers so that no extension cord over 50 feet in length is required to reach any work point. Maintain general lighting in corridors, stairs, basement and other areas not receiving sufficient daylight required for safety. Remove temporary work as rapidly as required for or allowed by installation of permanent work.
  - 3.1.11 Certain items of work by other trades will be necessary for the completion of work under this division. Cooperate with other trades and arrange for these items to be performed in orderly course.
  - 3.1.12 This Contractor shall review the mechanical control requirements as specified and shown on the drawings and shall furnish and install all necessary conduit, wiring, boxes, protective devices, switches, etc., for the completion and proper operation of the system.
  - 3.1.13 Review all drawings and all specifications for each section of work. Unless specifically noted otherwise, herein or elsewhere, furnish and install items of any electrical nature required for completion of work for other trades, whether or not same is shown or noted in this or other sections.
4. REGULATIONS AND CODES
 

The Contractor must comply with all state, municipal and federal safety laws, construction codes, ordinances and regulations relating to building and public health and safety. In addition, comply with rules and regulations of the State Fire Protection Code. Fire protection material must bear the Fire Underwriters Laboratories label.
5. GENERAL REQUIREMENTS
 

5.1 The Contractor shall examine the premises and satisfy himself of existing conditions under which he will be obligated to install in performing his part of the work or that will in any manner affect the work under the contract. The Contractor shall cooperate with other trades so that the installations of all equipment may be properly coordinated.

5.2 All equipment furnished shall fit the space available, with connection, etc., in the required locations and with adequate space for operating and servicing. The drawings are generally diagrammatic and indicate the manner and method of the installation, while the specifications and fixture list denote the type and quality of material and workmanship to be used. Where a conflict exists between the drawings and the specifications, the Contractor shall promptly notify the Architect/Engineer whose decision shall be final. No allowance will be made subsequently in this connection in behalf of the Contractor after award of the contract.
6. EQUIPMENT AND MATERIAL
 

6.1 All materials furnished under this contract shall be new (except as noted), free from defects of any character, shall conform with the standards of the Underwriters Laboratories, Inc. (U.L.) (or other nationally recognized Laboratory), in every case where such a standard has been established and shall be so labeled. It is the intention of these specifications to indicate a standard of quality for all materials incorporated in this work, and where materials are not specified herein and are required to complete the electrical installation, these materials shall be of first quality products will be considered unless the specifications or drawings indicate otherwise.

6.2 Materials shall be suitable for intended use and location. Unless otherwise shown use NEMA-1 for interior areas and NEMA-3R for exterior areas.

6.3 The Architect/Engineer decision as to equal in grade and quality shall rule and be final for all electrical materials incorporated in this work. Where two or more similar type items are furnished, all shall be of the same manufacturer (e.g., all disconnect switches shall be of the same manufacturer) unless otherwise noted herein or shown on the drawings. All material and installation methods used shall be in accordance with the latest and approved electrical and mechanical engineering practices.
7. SERVICE ENTRANCE EQUIPMENT
 

7.1 Service entrance equipment shall be in accordance with the requirements of the municipal governing body and serving utility. Shop drawings shall be submitted to the serving utility for written approval before ordering equipment.

7.2 Label equipment and each individual overcurrent device per Section 16000.22.

7.3 Approved manufacturers are: Sun Valley, Square D, Cutler-Hammer, Siemens/ITE, General Electric
8. PANELBOARDS
 

8.1 Each panel shall be provided with door lock and two keys, all keyed alike. Each panel shall be provided with typewritten sheet installed on door identifying the use of each branch circuit. Panels shall have bussing as indicated on the drawings.

8.2 Label equipment per Section 16000.22

8.3 Approved manufacturers are: Square D, Cutler-Hammer, Siemens/ITE, General Electric
9. STARTERS
 

9.1 All motor starters shall be furnished under this section of the specifications unless an integral part of equipment or noted as furnished with equipment specified under other sections of these specifications.

9.2 Separately mounted motor starters shall be across-the-line combination magnetic with 120V coils, fused disconnect contactors, additional auxiliary contact for interlocking of controls. Provide pushbutton or selector switch in cover. Switchboard mounted starters shall be magnetic with 120V coils and additional auxiliary contacts as required for interlocking of controls. Starters shall have an integral control circuit transformer or separate 120V control with control circuit disconnect switch in cover.

9.3 Manual starters shall be horsepower, voltage and phase rated with overload protection and green "on" pilot light. Surface mounted unless noted otherwise.

9.4 All starters shall have overload protection in all phase lines. Furnish and install the proper size overload heater elements determined from full load nameplate readings on motors and compensation for ambient temperature in all starters whether they be furnished under this Section or other Sections.
- 9.5 Label per Section 16000.22
- 9.6 Approved manufacturers are: Square D
10. TRANSFORMERS
 

10.1 Transformers shall be dry type, with voltage ratings as indicated on plans. Transformers shall be rated for full load operation at a maximum 150 degree centigrade rise above a 40 degree centigrade ambient or as otherwise noted on drawings. Provide at least (4) 2 1/2 percent taps, two above normal and two below normal and have a sound rating not to exceed NEMA standards. Special "K" factor ratings as noted.

10.2 Submit complete transformer data with shop drawings for approval. The data shall include efficiencies, core and copper losses, impedance, regulation and sound level.

10.3 Installation of transformers shall be on vibration isolators and all wiring connections with flexible conduit.

10.4 Label per Section 16000.22

10.5 Approved manufacturers are: ACME, Square D, Jefferson, Cutler-Hammer, Westinghouse, General Electric, or same manufacturer as distribution equipment.
11. CONDUIT
 

11.1 Metallic conduits shall be hot dipped galvanized equal to LTV Steel.

11.2 Electric metallic tubing (EMT) is permitted for exposed work above 6'-0" A.F.F. or concealed work only. EMT is NOT permitted in the following: (1) in or under concrete, (2) in earth, (3) in grouted walls, (4) exterior of building, (5) with dissimilar metals, (6) where it will be subject to severe physical damage (either during or after installation), (7) in any hazardous (classified location) except as permitted by 502.10, 503.10 and 504.20, (8) without an equipment grounding conductor. Size and provide equipment grounding conductor per Article 250 and increase conduit size if required.

11.3 Rigid PVC conduit is permitted only underground or as noted on drawings. Provide rigid steel elbows and risers (NO MINIMUM SIZE). Size and provide equipment grounding conductor per Article 250 and increase conduit size if required.

11.4 Rigid galvanized or sheradized steel shall be used for all exposed conduit below 6'-0" A.F.F. or as noted on drawings. Where used in or under concrete or in earth, shall be code approved PVC coated or half lap wrapped with Polyken #900 tape or equal.

11.5 Install exposed raceways parallel and perpendicular to nearby surfaces or structural members and follow the surface contours as much as practical.

11.6 Run exposed, parallel, or banked raceways together. Make bends in parallel or banked runs from the same center line so that the bends are parallel. Factory elbows may be used in banked runs only where they can be installed parallel. This requires that there be a change in the plane of the run such as from wall to ceiling and that the raceways be of the same size. In other cases provide field bends for parallel raceways.
12. WIRE
 

12.1 Soft drawn annealed copper (unless otherwise noted on plans) having conductivity of not less than 98% of that of pure copper, uniform in cross section, free from flaws, scales, and other imperfections. All wire larger than #10 shall be stranded.

12.2 Insulation: Type THHN/THWN, or XHHW for all branch circuit and feeder wiring.

12.3 Sizes: No wire smaller than #12 unless otherwise noted on drawings.

12.4 Feeder conductors #2 awg and larger may be copper or AA-8000 series aluminum alloy. Aluminum conductors shall be equal or larger ampacity to copper. Conduit fill shall not exceed 40% factor as described in 2005 NEC, annex C, table C1 (copper) or C1A (aluminum).
13. MISCELLANEOUS MATERIALS:
 

13.1 Safety switches: Heavy duty, fused rejection type, minimum 200,000 A.I.C. rated. "NP" indicates not fused.

13.1.1 Label per Section 16000.22

13.1.2 Approved manufacturers are: Square D, Cutler-Hammer, Westinghouse, General Electric or same manufacturers as distribution equipment.

13.2 Fuses: "Busmann" or "Gould Shawmut" mfg. No substitutions unless by prior written approval from Engineer, or as noted on drawings.

13.3 Conduit strap: Heavy gauge steel snap-on type.

13.4 Electrical metallic tubing fittings: Equal to T&B compression type. Connectors shall have insulated bushings.

13.5 Rigid conduit locknuts and bushings: Equal to T&B.

13.6 Flexible conduit and fittings: Equal to California Conduit and Cable Company, Inc.

13.7 Liquid tight conduit and fittings for all exterior and equipment connections.

13.8 Outlet boxes, plaster rings, pull, and junction boxes, etc: Equal to RACO, Zinc coated or Cadmium plated sheet steel for indoor locations, cast aluminum for outdoor locations.

13.8.1 For all light fixtures: Octagon or 4" square boxes.

13.8.2 For switches and receptacles: 4" or 4-11/16" square boxes.

13.8.3 Junction and pull boxes: 4" square minimum size. Provide with screwfastened covers located in accessible locations.

13.9 Condulets: Equal to Crouse-Hinds.

13.10 Wire and Cable: Equal to General Cable and/or Simplex.

13.11 Devices: "Hubbell", "Leviton", or approved equal. Receptacles: Duplex-20 amp #5362, isolated ground - 20 amp #10-5362, GFI- 20 amp #0F-5362. Switches: 20 amp #1221 single pole, 1222 double pole, 1223 three way, 1224 four way. Colors to be specified by Architect/Owner/Tenant.

13.12 Device plates: "Hubbell", "Leviton", or equal. Ivory nylon in interior areas or as noted on drawings. Zinc die cast flip lid mounted horizontally for exterior or weatherproof locations.
- 13.13 Lighting fixtures: Equal to as shown on fixture schedule or described on drawings, complete with lamps in original cartons and all canopies, stems, hangers and accessories including all structural members required for proper mounting. All fluorescent fixture ballasts shall be energy saving type. Submit shop drawings to Architect/Engineer for approval by the same. Must be C.E.C. approved in Calif.
- 13.14 Lamps: G.E. or equal and shall be for the maximum rated wattage of fixture unless otherwise shown on drawings.
14. SLEEVES, INSERTS, OPENINGS
 

14.1 Contractor shall layout and install his work in advance of pouring concrete floors or walls. Provide all sleeves and/or openings through floors or walls required for electrical conduits or ducts.

14.2 Sleeves shall be of rigid conduit or galvanized sheet steel rigidly supported and suitably packed to prevent entrance of wet concrete.
15. EXCAVATION/CUTTING/FITTING/REPAIRING/FINISHING
 

15.1 The Contractor shall include in his bid all excavation, compaction, fill, backfill, cutting, fitting, repairing and finishing of all work necessary for the installation of all equipment under this specification but no cutting of the work of other Contractors shall be done without the consent of the General Contractor.

15.2 Earthwork shall be done in accordance with latest industry standards.
16. CLEANUP OF PREMISES
 

Contractor shall at all times keep the premises clear of waste materials and debris caused by his employees and operation. Equipment not required in the work shall be removed prior to the termination of the contract.
17. TESTS AND INSPECTIONS
 

17.1 Contractor shall test wiring and devices as sections are completed and shall correct all defects immediately at his own expense, including any damage to walls, ceilings, floor or other portions of the building which may result from replacing defective equipment.

17.2 Furnish all meters, cable, connections and apparatus necessary for making tests.

17.3 Test system for shorts and grounds. Faulty wiring shall be removed and replaced. Any device, apparatus or fixture installed showing substandard performance shall be removed and replaced as directed by the Architect/Engineer.

17.4 Megger all systems neutrals to insure the neutral is not grounded within the system.

17.5 All equipment rated at 1,000 amps or more , or 480 volts shall be tested for insulation breakdown prior to its being energized. Such equipment shall withstand for a period of one minute without breakdown, the application of a 60HZ alternating potential of 1,000V plus twice the rated voltage of the device.

17.6 After the electrical wiring system installation is completed and at such time as the Architect/Engineer or his authorized representative may direct, the Contractor shall conduct an operating test for approval. Equipment shall be demonstrated to operate in accordance with requirements of specifications. Test shall be performed in presence of Architect/Engineer or his representative.
18. SHOP DRAWINGS
 

18.1 All data shall be submitted at one time, bound and indexed in an orderly manner. Prior to starting the work, submit to the Architect/Engineer for approval, six (6) sets of shop drawings of service (S.E.S.), panels, distribution sections, light fixtures, motor control centers, fire alarm system, dimmers, sound system, emergency generator, devices, transformers, labels as required by 16000.22, and all other equipment to be fabricated.

18.2 Procure shop drawings, wiring diagrams, etc., from other trades involved where such drawings may facilitate and expedite the work. Air conditioning and mechanical equipment shall be wired complete as per manufacturer's wiring diagrams furnished by the air conditioning and mechanical contractors.
19. DRAWINGS OF RECORD (AS-BUILT)
 

AS-built drawings shall be submitted in accordance with and if required by Division 1 - General Requirements.
20. GUARANTEE
 

The Contractor shall guarantee all material and equipment to be free from defect of material and workmanship and shall replace or repair without cost to the owner all defective material and workmanship for a period of one year after final acceptance.
21. INSTRUCTIONS
 

21.1 Contractor shall instruct the Owner in the proper operating and maintenance of the equipment.

21.2 Contractor shall provide two (2) sets of operating and maintenance manuals for each piece of equipment provided by this discipline, only when such manuals are available from the manufacturer.
- 21.2.1 All manuals to be bound in a 3-ring binder and tabulated in an orderly manner.
22. LABELING
 

22.1 Labels shall be engraved, black on white melamine plastic laminate, 1/16" minimum thickness for signs up to 20 square inches or 8 inches long; 1/8" thick for larger sizes. Engraved legend shall be in white letters on black face with minimum 3/16" high letters. Labels shall be punched and fastened to equipment with aluminum rivets or self tapping stainless steel screws or number 10/32 stainless steel machine screws with nuts, flat and lock washers.

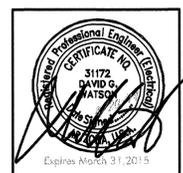
22.2 Label equipment with name, amperage, voltage, phase, and wires (i.e. Panel "A", 400A, 120/208V,30,4W). Submit list of all labels with wording for review as per 16000.18.

22.3 Equipment to be labeled shall include service (S.E.S.) and all overcurrent devices, distribution sections and all overcurrent devices, motor control centers (M.C.C.) and all overcurrent devices, fusible panelboards and all overcurrent devices, panels, starters and transformers. Label other equipment as noted on plans.



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drawing: ELECTRICAL SPECIFICATIONS AND SYMBOLS

project: PINAL COUNTY ADMINISTRATIVE COMPLEX IMPROVEMENTS FLORENCE, ARIZONA

date: SEPT. 2014  
drawn: DW  
checked: DW  
rev:

project number(s):

sheet:  
**E-4**

