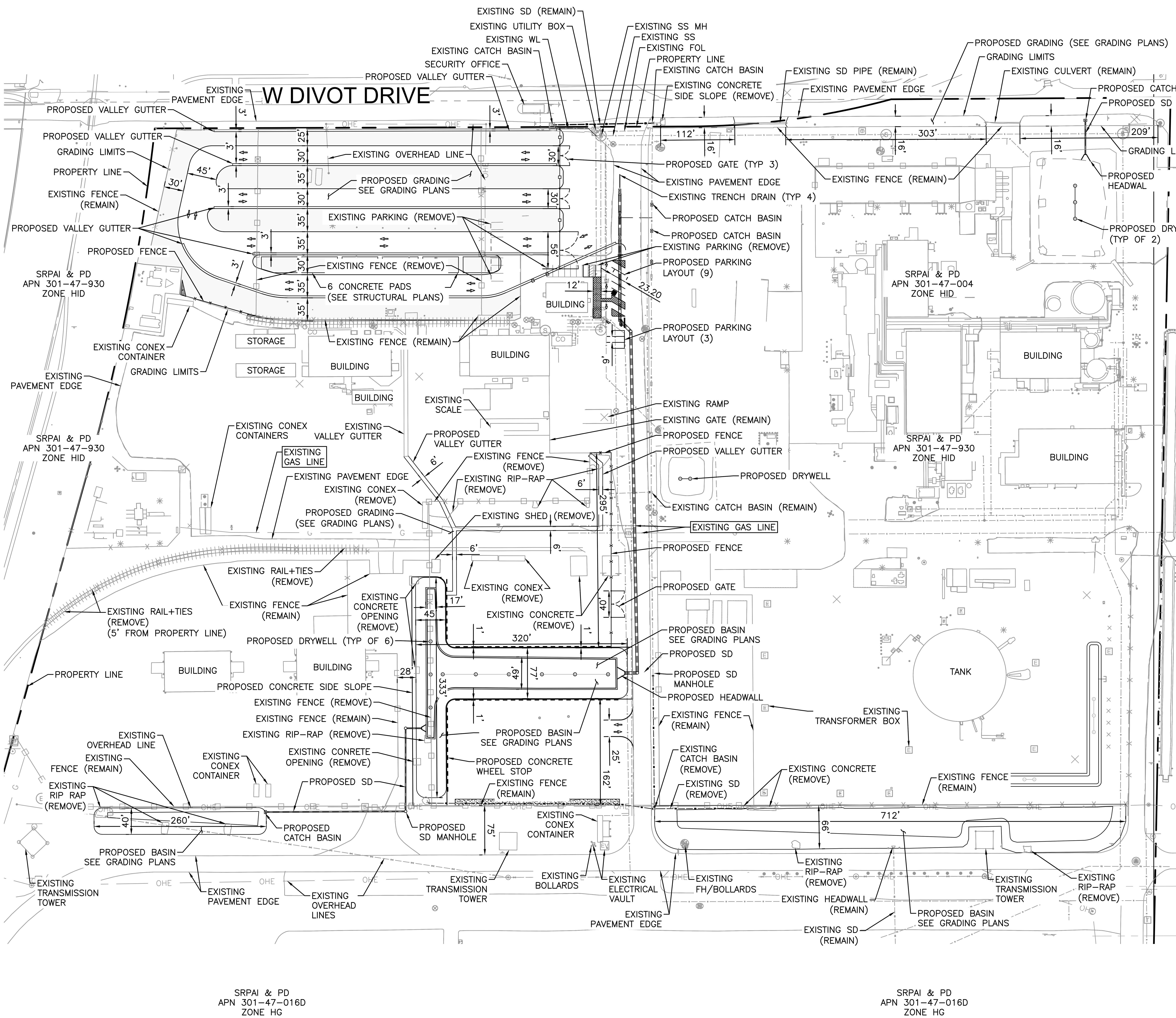
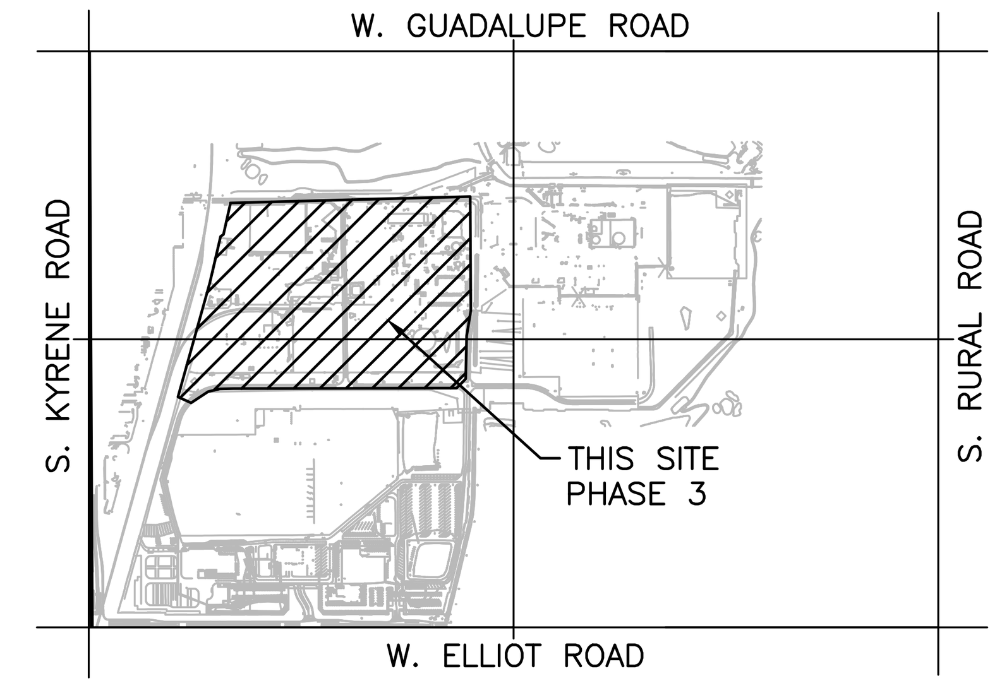
SITE PLAN/HORIZONTAL CONTROL PLAN
SRP TEMPE SERVICE CENTER-PHASE 3

A PORTION OF LAND LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10,
TOWNSHIP 1 SOUTH, RANGE 4 EAST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA





VICINITY MAP
(NOT-TO-SCALE)

OWNER

SALT RIVER PROJECT (SRP)
TEMPE SERVICE CENTER
470 W ELLIOT RD
TEMPE, ARIZONA 85283
CONTACT: TY BREWSTER
PHONE: 602-236-4087
EMAIL: TY.BREWSTER@SRPNET.COM

ENGINEER

COE & VAN LOO CONSULTANTS, INC.
4550 NORTH 12TH STREET
PHOENIX, ARIZONA 85014
PHONE: (602) 805-7543
FAX: (602) 264-0928
CONTACT: NICHOLAS MAXWELL P.E.
EMAIL: NMAXWELL@CVLCI.COM

SHEET INDEX

SHEET	DESCRIPTION
C101	SITE PLAN/HORIZONTAL CONTROL SHEET
C201	DEMOLITION SHEET
C302-C306	GRADING & DRAINAGE SHEETS
E000	ELECTRICAL LEGENDS & NOTES
E101	ELECTRICAL DEMOLITION PLAN
E201-E206	ELECTRICAL PHOTOMETRIC SITE PLAN
E301	ELECTRICAL POWER PLAN
E600	ELECTRICAL ONE-LINE DIAGRAM
E900-E901	ELECTRICAL SCHEDULES
S1.0	STRUCTURAL PLAN

CONTRACTOR

SDB CONTRACTING SERVICES
1001 S. EDWARD DRIVE, TEMPE AZ
CONTACT: TIM RAYBURN
EMAIL: TIM.RAYBURN@SDB.COM
PHONE: 480-317-5712

LEGEND

FOUND BRASS CAP FLUSH
FOUND BRASS CAP IN HAND HOLE
FOUND PK-NAIL
MANHOLE (GENERIC)
POWER POLE
POLE STREET LIGHT
ELECTRIC CABINET
JUNCTION BOX
MANHOLE ELECTRIC
TELEPHONE JUNCTION BOX
MANHOLE SANITARY SEWER
CLEANOUT
DRYWELL
FIRE HYDRANT
WATER VALVE
MANHOLE WATER
WATER METER
WATER VALVE ASSEMBLY
STUB OUT
SIGN
UGE — UNDERGROUND ELECTRICAL LINE
G — UNDERGROUND GAS LINE
OHE — OVERHEAD ELECTRIC LINE
X — BARBED WIRE FENCE
WALL
BOLLARD

SCALE: 1" = 80'

ISSUED FOR 100% REVIEW

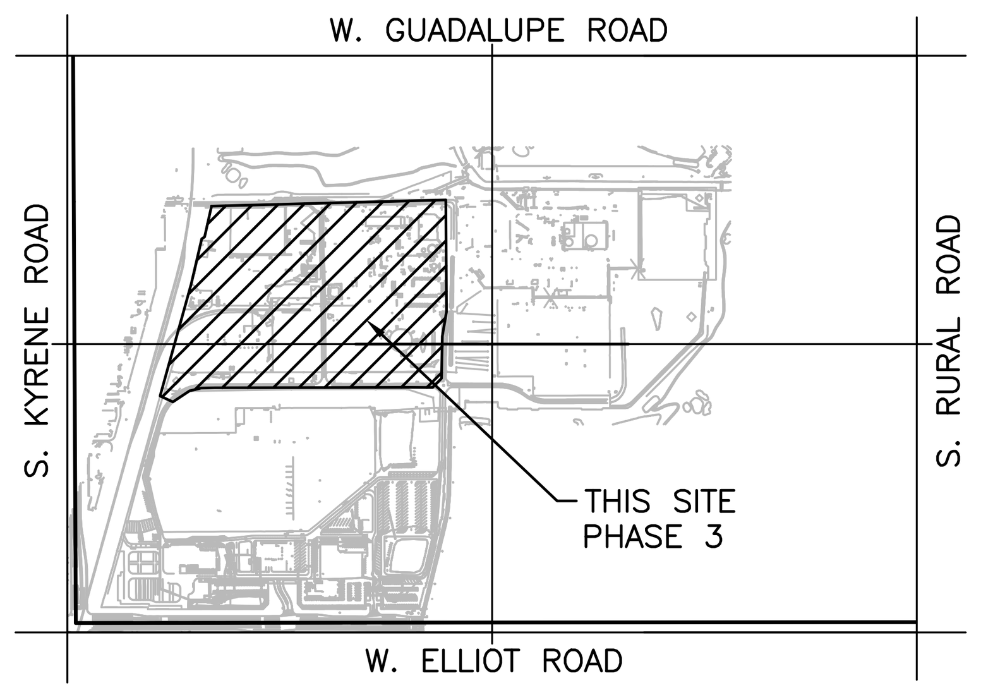
CVL CONSULTANTS
CELEBRATING 60 YEARS
4550 NORTH 12TH STREET
PHOENIX, ARIZONA 85014
TELEPHONE: 602.264.6831
WWW.CVLCI.COM

PRELIMINARY

SRP SALT RIVER PROJECT
FACILITIES SERVICES — PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH3
GRADING & DRAINAGE PLAN
CIVIL
HORIZONTAL CONTROL PLAN

SCALE: As indicated	DESIGNED BY: MB	SHEET#
DATE: 05/26/2022	CHECKED BY: NM	C101



VICINITY MAP
(NOT-TO-SCALE)

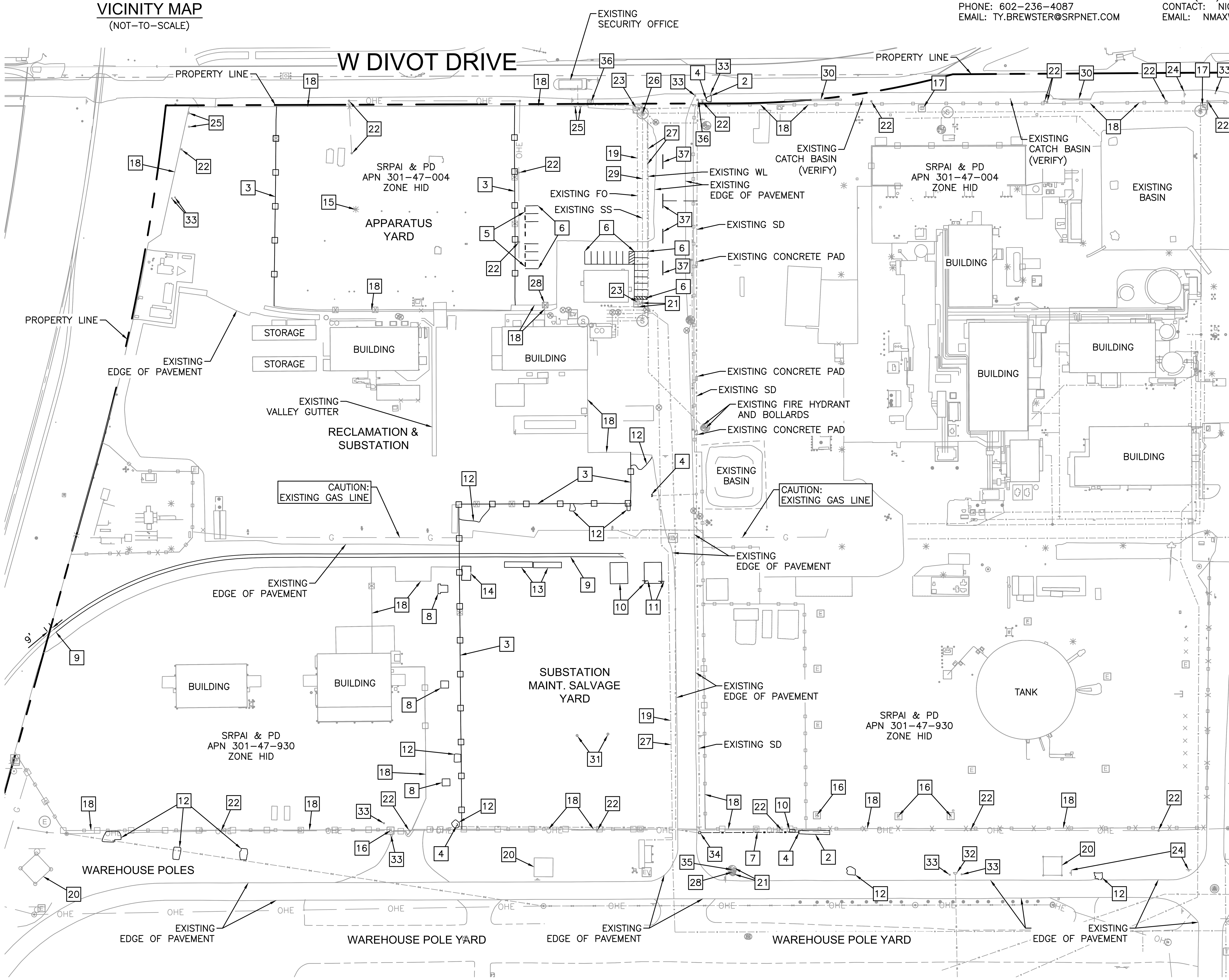
DEMOLITION PLAN
SRP TEMPE SERVICE CENTER-PHASE 3

A PORTION OF LAND LOCATED IN THE SOUTHWEST QUARTER OF SECTION 10,
TOWNSHIP 1 SOUTH, RANGE 4 EAST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

OWNER
SALT RIVER PROJECT (SRP)
TEMPE SERVICE CENTER
470 W ELLIOT RD
TEMPE, ARIZONA 85283
CONTACT: TY BREWSTER
PHONE: 602-236-4087
EMAIL: TY.BREWSTER@SRPNET.COM

ENGINEER
COE & VAN LOO CONSULTANTS, INC.
4550 NORTH 12TH STREET
PHOENIX, ARIZONA 85014
PHONE: (602) 805-7543
FAX: (602) 264-0928
CONTACT: NICHOLAS MAXWELL P.E.
EMAIL: NMAXWELL@CVLCI.COM

CONTRACTOR
SDB CONTRACTING SERVICES
1001 S. EDWARD DRIVE, TEMPE AZ
CONTACT: TIM RAYBURN
EMAIL: TIM.RAYBURN@SDB.COM
PHONE: 480-317-5712



DEMOLITION NOTES

1. SAWCUT AND REMOVE EXISTING PAVEMENT.
2. REMOVE EXISTING CONCRETE CHANNEL.
3. REMOVE EXISTING CHAIN LINK FENCE.
4. REMOVE EXISTING HEADWALL. DO NOT REMOVE HEADWALL UNTIL NEW BASIN AND PIPE IS INSTALLED.
5. REMOVE PARKING STOPS.
6. OBLITERATE EXISTING PARKING STRIPING.
7. REMOVE 138LF OF EXISTING SD FROM MANHOLE TO REMOVED HEADWALL.
8. REMOVE EXISTING CONCRETE OPENING.
9. REMOVE EXISTING RAILROAD TRACKS AND TIES TO EAST.
10. REMOVE EXISTING CONCRETE PAD.
11. REMOVE EXISTING SIGN.
12. REMOVE EXISTING RIP-RAP.
13. RELOCATE EXISTING CONEX CONTAINERS.
14. RELOCATE EXISTING STORAGE SHED.
15. PROTECT EXISTING STREETLIGHT. SEE ELECTRICAL PLANS.
16. PROTECT EXISTING ELECTRICAL JUNCTION BOX. SEE ELECTRICAL PLANS.
17. PROTECT EXISTING TELEPHONE JUNCTION BOX.
18. PROTECT EXISTING FENCE.
19. PROTECT EXISTING FIBER OPTICS CABLE.
20. PROTECT EXISTING TRANSMISSION TOWER
21. PROTECT EXISTING BOLLARDS.
22. PROTECT EXISTING POWER POLE. SEE ELECTRICAL PLANS.
23. PROTECT EXISTING ELECTRICAL VAULT. SEE ELECTRICAL PLANS.
24. PROTECT EXISTING SIGN.
25. PROTECT EXISTING ELECTRICAL TRANSFORMER. SEE ELECTRICAL PLANS.
26. PROTECT EXISTING SANITARY SEWER MANHOLE.
27. PROTECT EXISTING WATER LINE.
28. PROTECT EXISTING WATER VALVE.
29. PROTECT EXISTING SANITARY SEWER LINE.
30. PROTECT EXISTING PIPE.
31. PROTECT EXISTING UTILITY MANHOLE.
32. PROTECT EXISTING HEADWALL.
33. PROTECT EXISTING FLEXIBLE POST.
34. REMOVE EXISTING CATCH BASIN.
35. PROTECT EXISTING FIRE HYDRANT.
36. PROTECT EXISTING CATCH BASIN.
37. REMOVE EXISTING TRENCH DRAIN.

LEGEND

- FOUND BRASS CAP FLUSH
- FOUND BRASS CAP IN HAND HOLE
- FOUND PK-NAIL
- MANHOLE (GENERIC)
- POWER POLE
- POLE STREET LIGHT
- ELECTRIC CABINET
- JUNCTION BOX
- MANHOLE ELECTRIC
- TELEPHONE JUNCTION BOX
- MANHOLE SANITARY SEWER
- CLEANOUT
- DRYWELL
- FIRE HYDRANT
- WATER VALVE
- MANHOLE WATER
- WATER METER
- WATER VALVE ASSEMBLY
- STUB OUT
- SIGN
- UGE — UNDERGROUND ELECTRICAL LINE
- G — UNDERGROUND GAS LINE
- OHE — OVERHEAD ELECTRIC LINE
- X — BARBED WIRE FENCE
- WALL
- BOLLARD

SCALE: 1" = 80'

ISSUED FOR 100% REVIEW

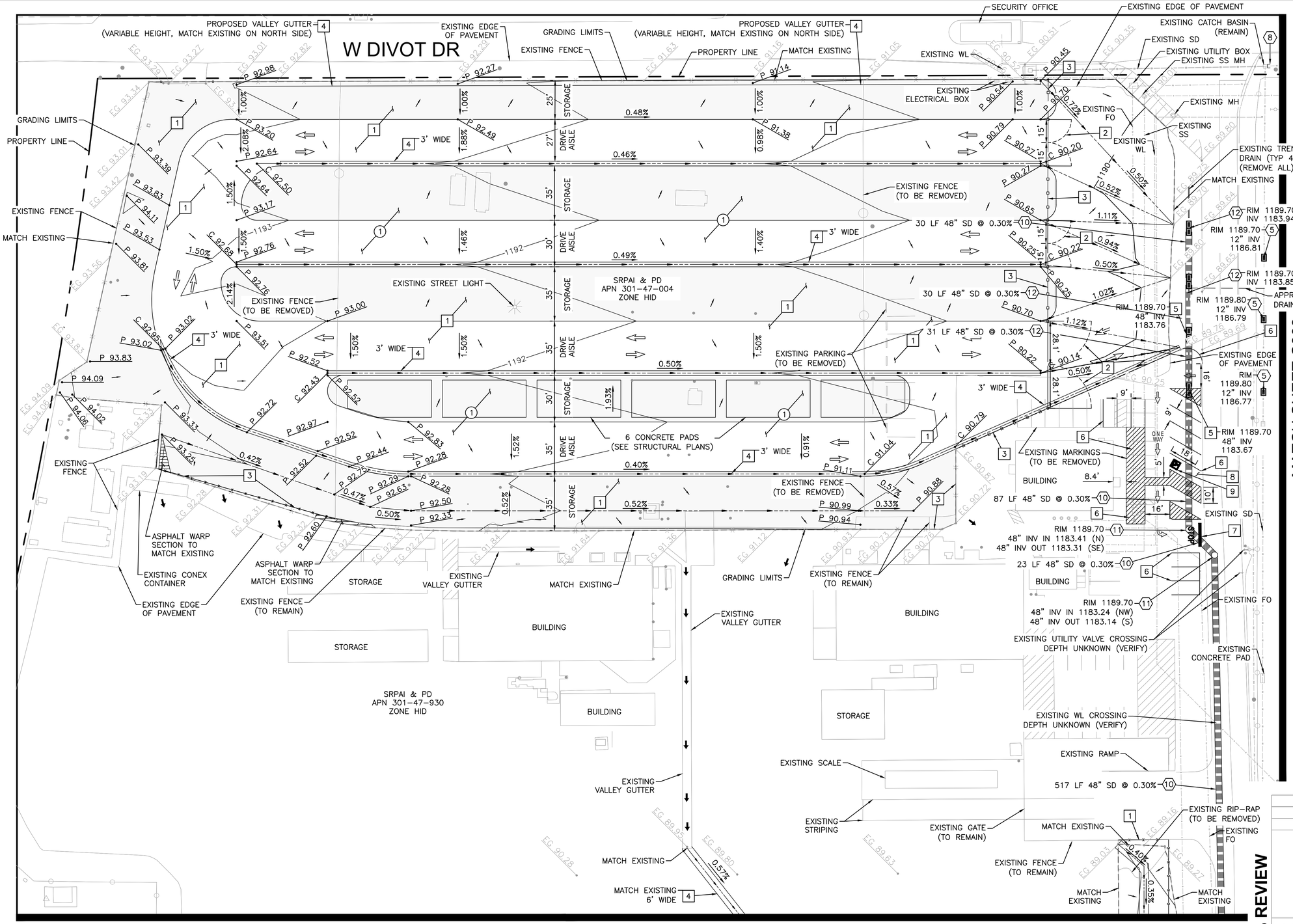
CVL CONSULTANTS
CELEBRATING 60 YEARS
4550 NORTH 12TH STREET
PHOENIX, ARIZONA 85014
TELEPHONE: 602.264.6831
WWW.CVLCI.COM

PRELIMINARY

SALT RIVER PROJECT
FACILITIES SERVICES
PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH3
GRADING & DRAINAGE PLAN
CIVIL
DEMOLITION PLAN

SCALE: As indicated	DESIGNED BY: MB	SHEET#
DATE: 05/26/2022	CHECKED BY: NM	C201



PAVING CONSTRUCTION NOTES

1. INSTALL 12" LIME TREATED AB BASE WITH 3/8" OR 1/2" CHIP SEAL PER SRP SECTION 321216–ASPHALT PAVING AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
2. INSTALL SWINGING GATES, 10" ROUND POST, BURIED 4' BELOW GRADE IN CONCRETE. GATE NEEDS TO SWING BOTH WAYS, GATE STOPS REQUIRED WITH RELEASE LATCHES AND PAD LOCK LATCHES WHEN CLOSED. WIRE IS HEAVY DUTY GAUGE WIRE PER SRP SPECS.
3. INSTALL 6' CHAIN LINK FENCE PER M.A.G. STD. DTL. 160. NO BARBED WIRE.
4. INSTALL VALLEY GUTTER PER M.A.G. STD. DTL. 240, WIDTH PER PLAN.
5. INSTALL CONCRETE SIDE SLOPES PER SRP SECTION 033000 CAST–IN–PLACE CONCRETE AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
6. PROPOSED 4" SOLID WHITE MARKING.
7. PROPOSED 24" SOLID WHITE MARKING.
8. INSTALL ADA PARKING SPACE.
9. INSTALL ADA MARKING PER ADA DESIGN STANDARDS.
10. INSTALL 6' LONG CONCRETE WHEEL STOP.

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL HEADWALL PER M.A.G. STD. DTL. 501
2. INSTALL 48" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 520 AND 522.
3. INSTALL STORM DRAIN EQUILIZER PER TORRENT DRYWELL DETAILS.
4. INSTALL MAXWELL PLUS DRYWELL PER TORRENT RESOURCES DETAIL
5. INSTALL CATCH BASIN PER M.A.G. STD. DTL. 535 TYPE F SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).
6. INSTALL 18" RCP CLASS III AND TRENCH PER M.A.G. STD. DTL. 200–1.
7. INSTALL CONCRETE SIDE SLOPES.
8. CAP AND PLUG EXISTING STORM DRAIN PIPE.
9. REMOVE EXISTING HEADWALL.
10. INSTALL HDPE PIPE, SMOOTH INTERIOR WATER TIGHT STORM DRAIN–ADS N–12 OR APPROVED EQUAL SIZE AND SLOPE PER THIS SHEET. BACKFILLED IN ACCORDANCE WITH M.A.G. STD. SPEC. 601 & 618 AND C.O.P. DTL. P1200. REPLACE EXISTING PAVEMENT IN KIND.
11. INSTALL 60" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 521 AND 522.
12. INSTALL DOUBLE CATCH BASIN PER M.A.G. STD. DTL. 538 TYPE H SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).

GRADING CONSTRUCTION NOTES

1. EARTHWORK PER SRP SECTION 312000–EARTH MOVING

ISSUED FOR 100% REVIEW

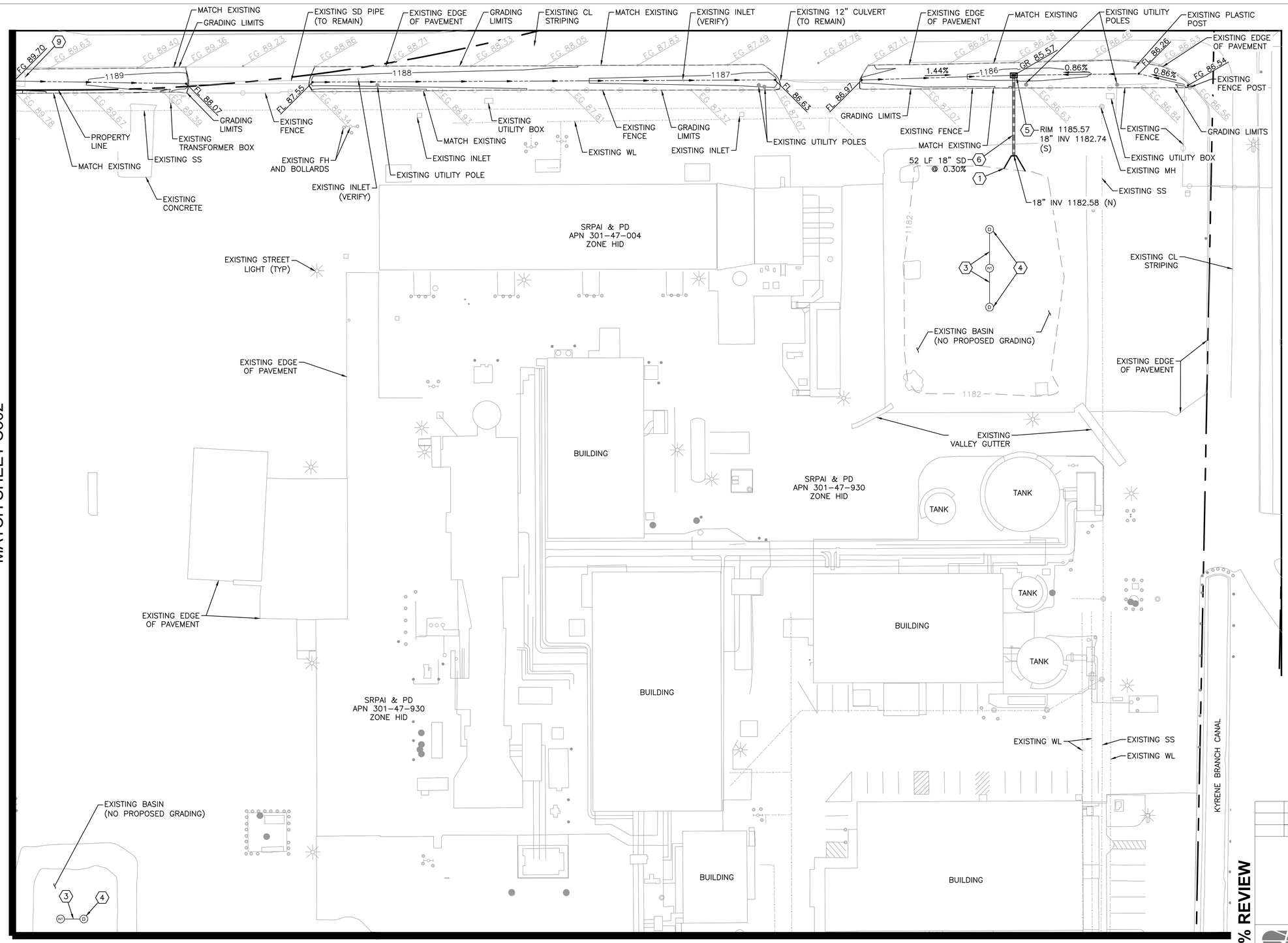
CVL CONSULTANTS
CELEBRATING 60 YEARS
4550 NORTH 12TH STREET
PHOENIX, ARIZONA 85014
TELEPHONE: 602.264.6831
WWW.CVLCI.COM

PRELIMINARY

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH3
GRADING & DRAINAGE PLAN
CIVIL
GRADING & DRAINAGE PLANS

SCALE: As indicated	DESIGNED BY: MB	SHEET# C302
DATE: 05/26/2022	CHECKED BY: NM	



PAVING CONSTRUCTION NOTES

1. INSTALL 12" LIME TREATED AB BASE WITH 3/8" OR 1/2" CHIP SEAL PER SRP SECTION 321216–ASPHALT PAVING AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
2. INSTALL SWINGING GATES, 10" ROUND POST, BURIED 4' BELOW GRADE IN CONCRETE. GATE NEEDS TO SWING BOTH WAYS, GATE STOPS REQUIRED WITH RELEASE LATCHES AND PAD LOCK LATCHES WHEN CLOSED. WIRE IS HEAVY DUTY GAUGE WIRE PER SRP SPECS.
3. INSTALL 6' CHAIN LINK FENCE PER M.A.G. STD. DTL. 160. NO BARBED WIRE.
4. INSTALL VALLEY GUTTER PER M.A.G. STD. DTL. 240, WIDTH PER PLAN.
5. INSTALL CONCRETE SIDE SLOPES PER SRP SECTION 033000 CAST–IN–PLACE CONCRETE AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
6. PROPOSED 4" SOLID WHITE MARKING.
7. PROPOSED 24" SOLID WHITE MARKING.
8. INSTALL ADA PARKING SPACE.
9. INSTALL ADA MARKING PER ADA DESIGN STANDARDS.
10. INSTALL 6' LONG CONCRETE WHEEL STOP.

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL HEADWALL PER M.A.G. STD. DTL. 501
2. INSTALL 48" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 520 AND 522.
3. INSTALL STORM DRAIN EQUILIZER PER TORRENT DRYWELL DETAILS.
4. INSTALL MAXWELL PLUS DRYWELL PER TORRENT RESOURCES DETAIL
5. INSTALL CATCH BASIN PER M.A.G. STD. DTL. 535 TYPE F SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).
6. INSTALL 18" RCP CLASS III AND TRENCH PER M.A.G. STD. DTL. 200–1.
7. INSTALL CONCRETE SIDE SLOPES.
8. CAP AND PLUG EXISTING STORM DRAIN PIPE.
9. REMOVE EXISTING HEADWALL.
10. INSTALL HDPE PIPE, SMOOTH INTERIOR WATER TIGHT STORM DRAIN–ADS N–12 OR APPROVED EQUAL SIZE AND SLOPE PER THIS SHEET. BACKFILLED IN ACCORDANCE WITH M.A.G. STD. SPEC. 601 & 618 AND C.O.P. DTL. P1200. REPLACE EXISTING PAVEMENT IN KIND.
11. INSTALL 60" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 521 AND 522.
12. INSTALL DOUBLE CATCH BASIN PER M.A.G. STD. DTL. 538 TYPE H SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).

GRADING CONSTRUCTION NOTES

1. EARTHWORK PER SRP SECTION 312000–EARTH MOVING

30' 15' 0 30'
SCALE: 1" = 30'

ISSUED FOR 100% REVIEW

CVL CONSULTANTS
CELEBRATING 60 YEARS
4550 NORTH 12TH STREET
PHOENIX, ARIZONA 85014
TELEPHONE: 602.264.6831
WWW.CVLCI.COM

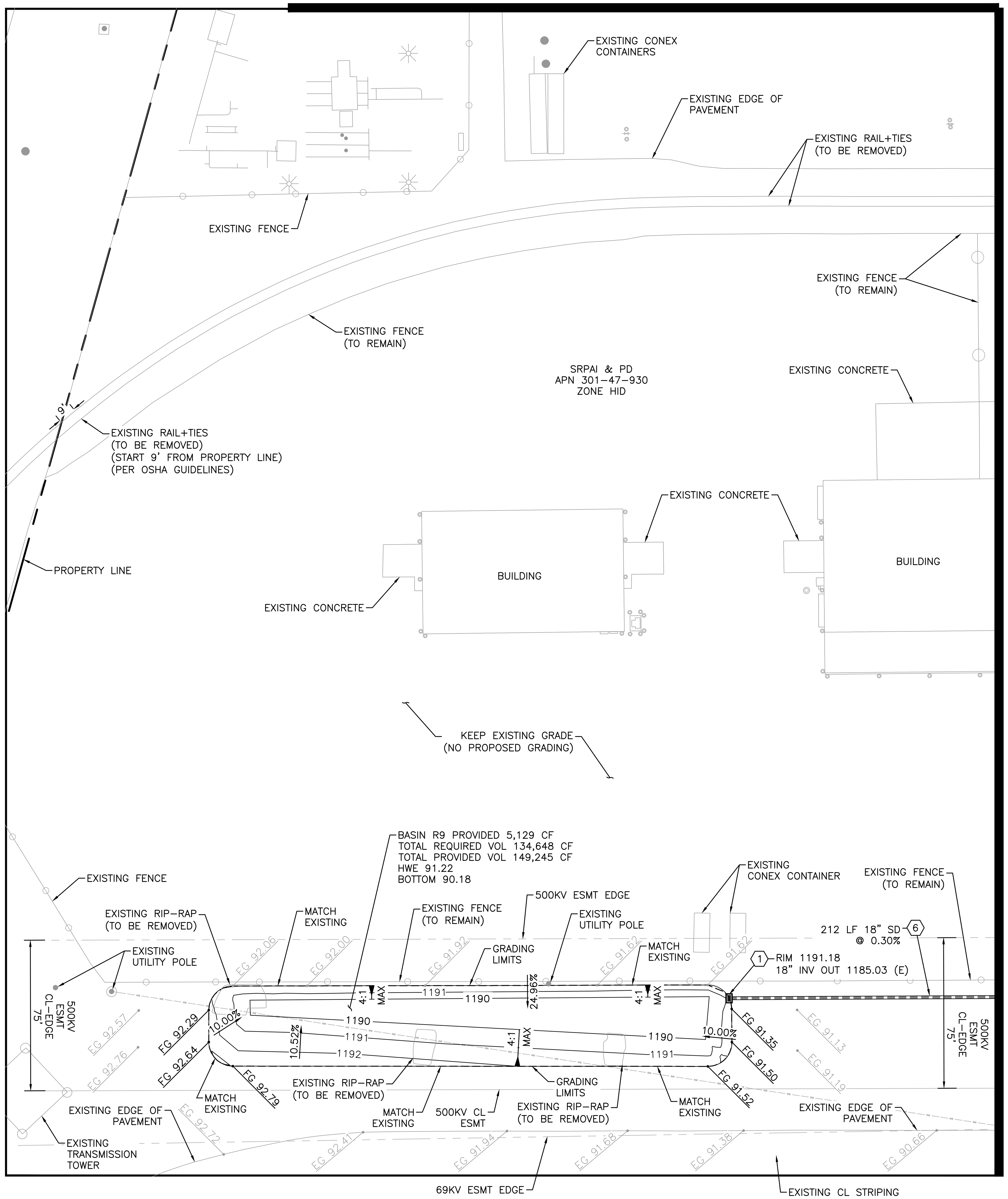
PRELIMINARY

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH3
GRADING & DRAINAGE PLAN
CIVIL
GRADING & DRAINAGE PLANS

SCALE: As indicated	DESIGNED BY: MB	SHEET#
DATE: 05/26/2022	CHECKED BY: NM	C303

MATCH SHEET C302



MATCH SHEET C305

PAVING CONSTRUCTION NOTES

1. INSTALL 12" LIME TREATED AB BASE WITH 3/8" OR 1/2" CHIP SEAL PER SRP SECTION 321216-ASPHALT PAVING AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
2. INSTALL SWINGING GATES, 10" ROUND POST, BURIED 4' BELOW GRADE IN CONCRETE. GATE NEEDS TO SWING BOTH WAYS, GATE STOPS REQUIRED WITH RELEASE LATCHES AND PAD LOCK LATCHES WHEN CLOSED. WIRE IS HEAVY DUTY GAUGE WIRE PER SRP SPECS.
3. INSTALL 6' CHAIN LINK FENCE PER M.A.G. STD. DTL. 160. NO BARBED WIRE.
4. INSTALL VALLEY GUTTER PER M.A.G. STD. DTL. 240, WIDTH PER PLAN.
5. INSTALL CONCRETE SIDE SLOPES PER SRP SECTION 033000 CAST-IN-PLACE CONCRETE AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
6. PROPOSED 4" SOLID WHITE MARKING.
7. PROPOSED 24" SOLID WHITE MARKING.
8. INSTALL ADA PARKING SPACE.
9. INSTALL ADA MARKING PER ADA DESIGN STANDARDS.
10. INSTALL 6' LONG CONCRETE WHEEL STOP.

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL HEADWALL PER M.A.G. STD. DTL. 501
2. INSTALL 48" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 520 AND 522.
3. INSTALL STORM DRAIN EQUILIZER PER TORRENT DRYWELL DETAILS.
4. INSTALL MAXWELL PLUS DRYWELL PER TORRENT RESOURCES DETAIL
5. INSTALL CATCH BASIN PER M.A.G. STD. DTL. 535 TYPE F SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).
6. INSTALL 18" RCP CLASS III AND TRENCH PER M.A.G. STD. DTL. 200-1.
7. INSTALL CONCRETE SIDE SLOPES.
8. CAP AND PLUG EXISTING STORM DRAIN PIPE.
9. REMOVE EXISTING HEADWALL.
10. INSTALL HDPE PIPE, SMOOTH INTERIOR WATER TIGHT STORM DRAIN-ADS N-12 OR APPROVED EQUAL SIZE AND SLOPE PER THIS SHEET. BACKFILLED IN ACCORDANCE WITH M.A.G. STD. SPEC. 601 & 618 AND C.O.P. DTL. P1200. REPLACE EXISTING PAVEMENT IN KIND.
11. INSTALL 60" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 521 AND 522.
12. INSTALL DOUBLE CATCH BASIN PER M.A.G. STD. DTL. 538 TYPE H SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).

GRADING CONSTRUCTION NOTES

1. EARTHWORK PER SRP SECTION 312000-EARTH MOVING

30' 15' 0 30'
SCALE: 1" = 30'

ISSUED FOR 100% REVIEW

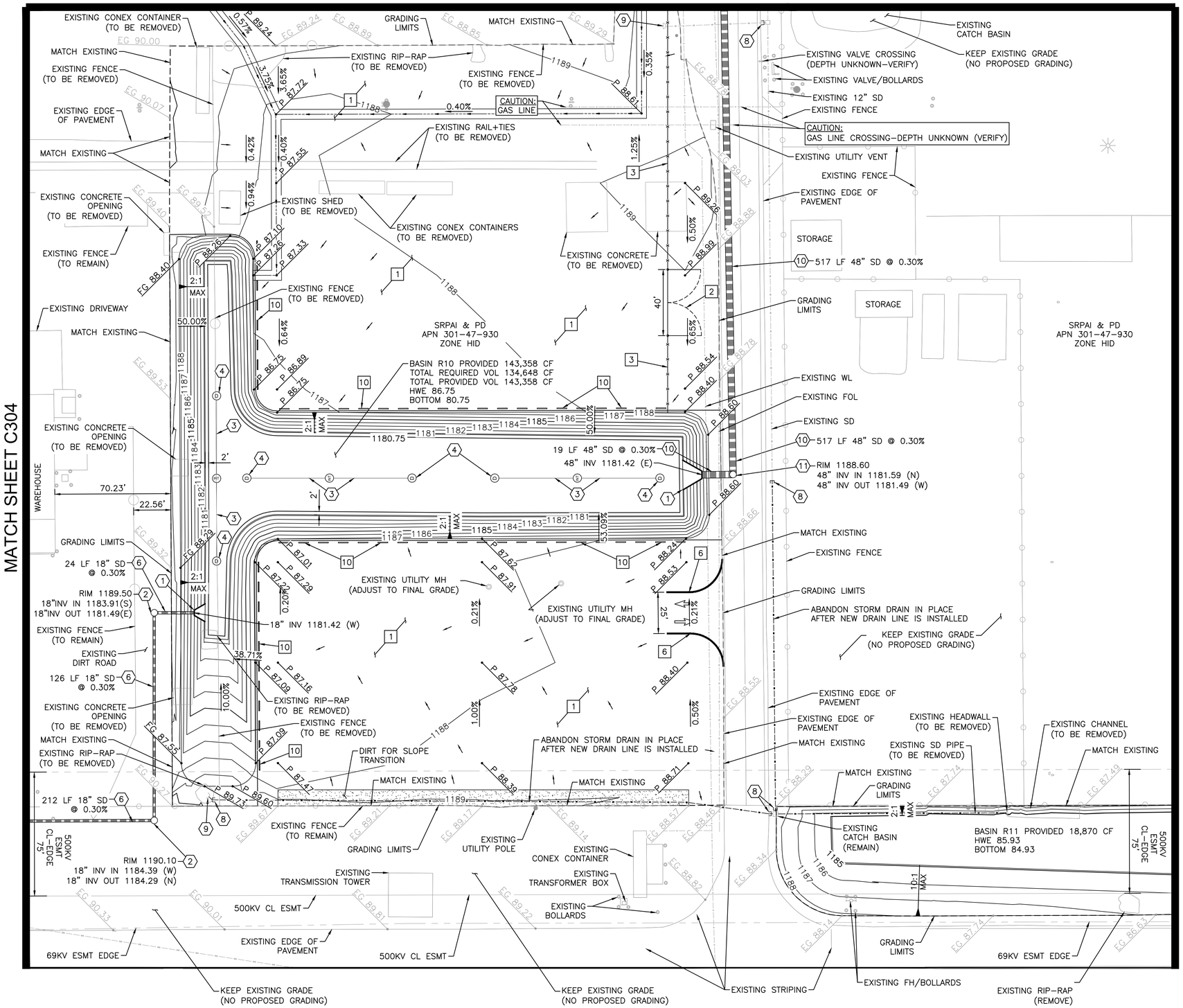
CVL CONSULTANTS
CELEBRATING 60 YEARS
4550 NORTH 12TH STREET
PHOENIX, ARIZONA 85014
TELEPHONE: 602.264.6831
WWW.CVLCI.COM

PRELIMINARY

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH3
GRADING & DRAINAGE PLAN
CIVIL
GRADING & DRAINAGE PLANS

SCALE: As indicated	DESIGNED BY: MB	SHEET#
DATE: 05/26/2022	CHECKED BY: NM	C304



PAVING CONSTRUCTION NOTES

1. INSTALL 12" LIME TREATED AB BASE WITH 3/8" OR 1/2" CHIP SEAL PER SRP SECTION 321216-ASPHALT PAVING AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
2. INSTALL SWINGING GATES, 10" ROUND POST, BURIED 4' BELOW GRADE IN CONCRETE. GATE NEEDS TO SWING BOTH WAYS, GATE STOPS REQUIRED WITH RELEASE LATCHES AND PAD LOCK LATCHES WHEN CLOSED. WIRE IS HEAVY DUTY GAUGE WIRE PER SRP SPECS.
3. INSTALL 6' CHAIN LINK FENCE PER M.A.G. STD. DTL. 160. NO BARBED WIRE.
4. INSTALL VALLEY GUTTER PER M.A.G. STD. DTL. 240, WIDTH PER PLAN.
5. INSTALL CONCRETE SIDE SLOPES PER SRP SECTION 033000 CAST-IN-PLACE CONCRETE AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
6. PROPOSED 4" SOLID WHITE MARKING.
7. PROPOSED 24" SOLID WHITE MARKING.
8. INSTALL ADA PARKING SPACE.
9. INSTALL ADA MARKING PER ADA DESIGN STANDARDS.
10. INSTALL 6' LONG CONCRETE WHEEL STOP.

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL HEADWALL PER M.A.G. STD. DTL. 501
2. INSTALL 48" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 520 AND 522.
3. INSTALL STORM DRAIN EQUILIZER PER TORRENT DRYWELL DETAILS.
4. INSTALL MAXWELL PLUS DRYWELL PER TORRENT RESOURCES DETAIL
5. INSTALL CATCH BASIN PER M.A.G. STD. DTL. 535 TYPE F SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).
6. INSTALL 18" RCP CLASS III AND TRENCH PER M.A.G. STD. DTL. 200-1.
7. INSTALL CONCRETE SIDE SLOPES.
8. CAP AND PLUG EXISTING STORM DRAIN PIPE.
9. REMOVE EXISTING HEADWALL.
10. INSTALL HDPE PIPE, SMOOTH INTERIOR WATER TIGHT STORM DRAIN-ADS N-12 OR APPROVED EQUAL SIZE AND SLOPE PER THIS SHEET. BACKFILLED IN ACCORDANCE WITH M.A.G. STD. SPEC. 601 & 618 AND C.O.P. DTL. P1200. REPLACE EXISTING PAVEMENT IN KIND.
11. INSTALL 60" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 521 AND 522.
12. INSTALL DOUBLE CATCH BASIN PER M.A.G. STD. DTL. 538 TYPE H SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).

GRADING CONSTRUCTION NOTES

1. EARTHWORK PER SRP SECTION 312000-EARTH MOVING

ISSUED FOR 100% REVIEW

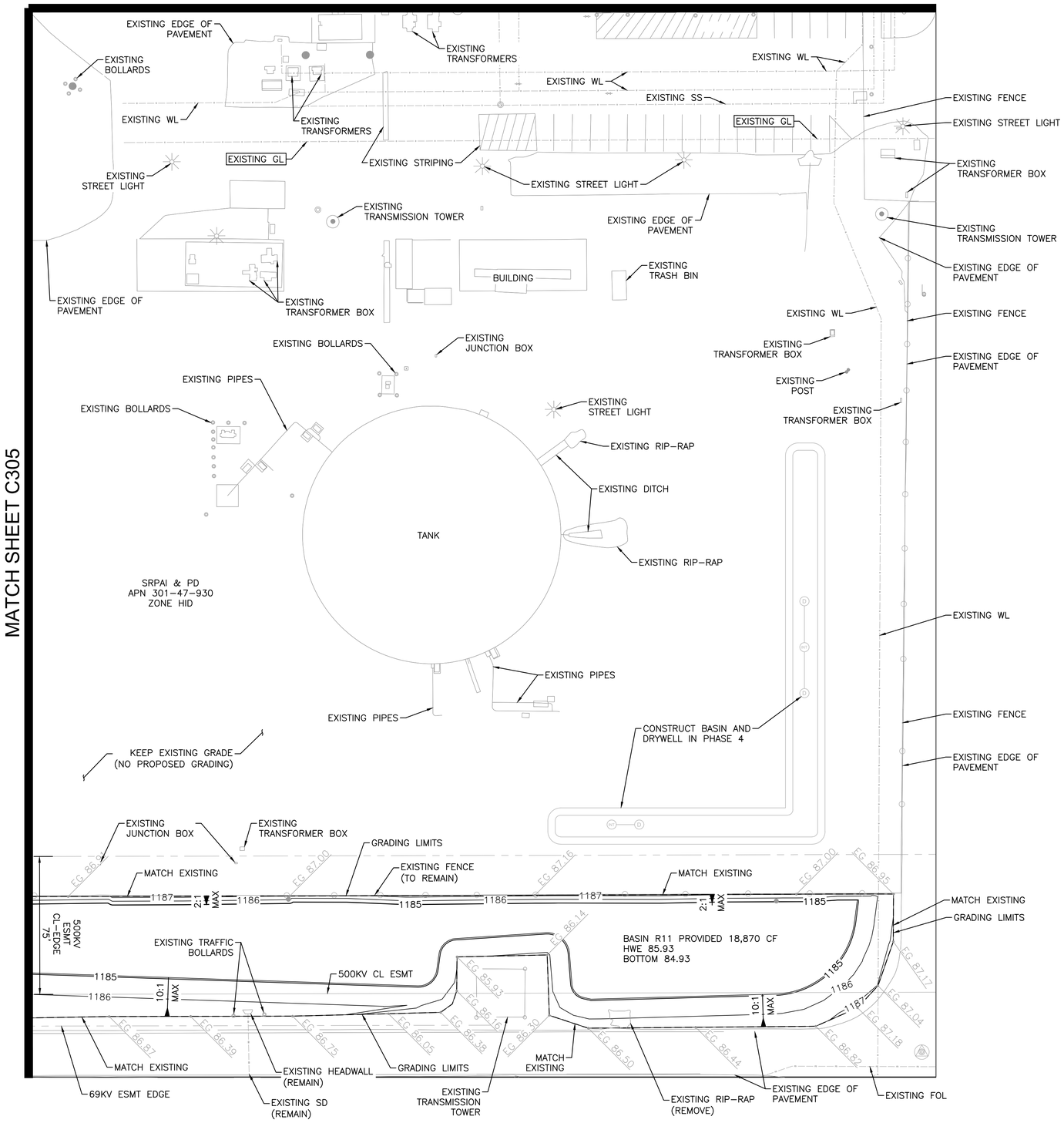
CVL CONSULTANTS
CELEBRATING 60 YEARS
4550 NORTH 12TH STREET
PHOENIX, ARIZONA 85014
TELEPHONE: 602.264.6831
WWW.CVLCI.COM

PRELIMINARY

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH3
GRADING & DRAINAGE PLAN
CIVIL
GRADING & DRAINAGE PLANS

SCALE: As indicated	DESIGNED BY: MB	SHEET# C305
DATE: 05/26/2022	CHECKED BY: NM	



PAVING CONSTRUCTION NOTES

1. INSTALL 12" LIME TREATED AB BASE WITH 3/8" OR 1/2" CHIP SEAL PER SRP SECTION 321216–ASPHALT PAVING AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
2. INSTALL SWINGING GATES, 10" ROUND POST, BURIED 4' BELOW GRADE IN CONCRETE. GATE NEEDS TO SWING BOTH WAYS, GATE STOPS REQUIRED WITH RELEASE LATCHES AND PAD LOCK LATCHES WHEN CLOSED. WIRE IS HEAVY DUTY GAUGE WIRE PER SRP SPECS.
3. INSTALL 6' CHAIN LINK FENCE PER M.A.G. STD. DTL. 160. NO BARBED WIRE.
4. INSTALL VALLEY GUTTER PER M.A.G. STD. DTL. 240, WIDTH PER PLAN.
5. INSTALL CONCRETE SIDE SLOPES PER SRP SECTION 033000 CAST–IN–PLACE CONCRETE AND PER GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT.
6. PROPOSED 4" SOLID WHITE MARKING.
7. PROPOSED 24" SOLID WHITE MARKING.
8. INSTALL ADA PARKING SPACE.
9. INSTALL ADA MARKING PER ADA DESIGN STANDARDS.
10. INSTALL 6' LONG CONCRETE WHEEL STOP.

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL HEADWALL PER M.A.G. STD. DTL. 501
2. INSTALL 48" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 520 AND 522.
3. INSTALL STORM DRAIN EQUILIZER PER TORRENT DRYWELL DETAILS.
4. INSTALL MAXWELL PLUS DRYWELL PER TORRENT RESOURCES DETAIL
5. INSTALL CATCH BASIN PER M.A.G. STD. DTL. 535 TYPE F SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).
6. INSTALL 18" RCP CLASS III AND TRENCH PER M.A.G. STD. DTL. 200–1.
7. INSTALL CONCRETE SIDE SLOPES.
8. CAP AND PLUG EXISTING STORM DRAIN PIPE.
9. REMOVE EXISTING HEADWALL.
10. INSTALL HDPE PIPE, SMOOTH INTERIOR WATER TIGHT STORM DRAIN–ADS N–12 OR APPROVED EQUAL SIZE AND SLOPE PER THIS SHEET. BACKFILLED IN ACCORDANCE WITH M.A.G. STD. SPEC. 601 & 618 AND C.O.P. DTL. P1200. REPLACE EXISTING PAVEMENT IN KIND.
11. INSTALL 60" DIAMETER STORM DRAIN MANHOLE WITH 30" FRAME AND COVER PER M.A.G. STD. DTL. 521 AND 522.
12. INSTALL DOUBLE CATCH BASIN PER M.A.G. STD. DTL. 538 TYPE H SINGLE SUMP (UNLESS OTHERWISE SPECIFIED PER PLAN).

GRADING CONSTRUCTION NOTES

1. EARTHWORK PER SRP SECTION 312000–EARTH MOVING

30' 15' 0 30'

SCALE: 1" = 30'

ISSUED FOR 100% REVIEW

CVL CONSULTANTS
CELEBRATING 60 YEARS
4550 NORTH 12TH STREET
PHOENIX, ARIZONA 85014
TELEPHONE: 602.264.6831
WWW.CVLCI.COM

PRELIMINARY

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH3
GRADING & DRAINAGE PLAN
CIVIL
GRADING & DRAINAGE PLANS

SCALE: As indicated	DESIGNED BY: MB	SHEET# C306
DATE: 05/26/2022	CHECKED BY: NM	

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
A 2b	FIXTURE, CEILING OUTLET: SUBSCRIPTS: A = LIGHTING FIXTURE – TYPE (TYPICAL FOR 2 = CIRCUIT NUMBER ALL FIXTURES) b = SWITCH DESIGNATION
	FIXTURE, WALL OUTLET
	FLUORESCENT FIXTURE, SURFACE OR FLUSH OUTLET, HARD CEILING
	FLUORESCENT FIXTURE, W/FLEX TO J–BOX, LAY–IN CEILING
	FLUORESCENT STRIP OR INDUSTRIAL TYPE FIXTURE
	EXIT LIGHT W/DIRECTION ARROW
EM/NL	FIXTURE, CEILING OUTLET. EMERGENCY LIGHT (EM) OR NIGHT LIGHT (NL)
EM/NL	FLUORESCENT EMERGENCY LIGHT (EM); AND/OR FLUORESCENT NIGHT LIGHT (NL)
	PARKING LOT FIXTURE, POLE MOUNTED
	DUPLEX RECEPTACLE OUTLET @ +18" A.F.F. U.N.O.
	DOUBLE DUPLEX RECEPTACLE OUTLET @ +18" A.F.F. U.N.O.
	DUPLEX RECEPTACLE OUTLET, HALF SWITCHED @ +18" A.F.F. U.N.O.
	DUPLEX RECEPTACLE OUTLET GFCI @ +18" A.F.F. U.N.O.
	SPECIAL PURPOSE RECEPTACLE OUTLET; (#–# DENOTES NEMA CONFIGURATION)
	SAME AS ABOVE, FLOOR MOUNTED
	SAME AS ABOVE, CEILING MOUNTED
$a $3 $M	SWITCH, +48" A.F.F. UNLESS NOTED OTHERWISE. LOWERCASE SUBSCRIPT DENOTES CIRCUITING (TYPICAL FOR ALL SWITCH TYPES). LETTER/NUMBER INDICATES: 2 – DOUBLE POLE SWITCH K – KEY OPERATED 3 – THREE WAY SWITCH M – MOTOR RATED 4 – FOUR WAY SWITCH MC – MOMENTARY CONTACT D – DIMMER F – SINGLE POLE SWITCH WITH FUSE HOLDER MS – MOTION SENSOR S – MOTOR SPEED
M	MOTION SENSOR, CEILING (360 DEGREES)
#	MOTOR, (# DENOTES HORSE POWER)
	SAFETY DISCONNECT SWITCH; FUSIBLE (30/3 = 30A 3 POLE)
	SAFETY DISCONNECT SWITCH; NON–FUSIBLE
PNL 'A'	PANELBOARD
J	JUNCTION BOX OR PULL BOX
	VOICE @ 18" A.F.F. U.N.O., PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE
	DATA @ 18" A.F.F. U.N.O., PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE
	VOICE DATA COMMUNICATION @ 18" A.F.F. U.N.O. PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE
	SAME AS ABOVE, FLOOR MOUNTED
	SAME AS ABOVE, CEILING MOUNTED
TVH	TELEVISION @ 18" A.F.F. U.N.O. PROVIDE 3/4" CONDUIT WITH PULLSTRING TO ACCESSIBLE CEILING SPACE
	DISCONNECT SWITCH RATED AS NOTED
	FUSE RATED AS NOTED
	CIRCUIT BREAKER RATED AS NOTED
	GROUND CONNECTION
	CONDUIT CONCEALED IN WALLS OR CEILING
	UNDERGROUND CONDUIT
	CROSS HATCHES INDICATE NUMBER OF CONDUCTORS IN CONDUIT. CONDUCTORS ARE #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT CROSS HATCHES INDICATES INSULATED PHASE WIRE, LONG CROSS HATCH INDICATES NEUTRAL CONDUCTOR, 1/2 CROSS HATCH INDICATES GROUND WIRE.
A–1,3,5	HOMERUN TO PANEL 'A'; CIRCUITS 1, 3, AND 5. CONDUCTOR SIZES INDICATED ON HOMERUN SHALL BE THE MINIMUM SIZE FOR THE ENTIRE CIRCUIT UP TO CONNECTION OF LAST LOAD
EF 1	EQUIPMENT NUMBER DESIGNATION (EF–1) SEE EQUIPMENT SCHEDULES
DETAIL NUMBER ON PAGE	DETAIL CALLOUT–SEE DETAIL ON PAGE INDICATED

ELECTRICAL ABBREVIATIONS

A,AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
(D),DEMO	DEMOLISH
(E),EXIST	EXISTING
EM	EMERGENCY
EMT	ELEC METALLIC TUBING
(F),FUT	FUTURE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METALLIC CONDUIT
FU	FUSED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRND	GROUND
HP	HORSEPOWER
HVAC	HEATING VENTILATION AND AIR CONDITIONING
J,J–BOX	JUNCTION BOX
KCMIL	1000 CIRCULAR MIL
kV	KILOVOLT
kVA	KILOVOLT–AMPERE
LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
(N)	NEW
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NF	NON FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PC	PHOTO CELL
PH	PHASE
PNL	PANEL
(R),RELO	RELOCATE
RCPT	RECEPTACLE
RM	ROOM
RMC	RIGID METALIC CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
SES	SERVICE ENTRANCE SUBSTATION
SPEC	SPECIFICATION
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME CLOCK
TMB	TELEPHONE MOUNTING BOARD
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT–AMPERE
VP	VANDAL PROOF
W	WATT, WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES

A. THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL LOCAL, STATE AND FEDERAL CODES.

B. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC AND DO NOT INDICATE THE ROUTING REQUIRED. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE PROJECT.

C. WHERE SIZE IS NOT INDICATED ON THE PLAN, CONDUCTORS SHALL BE MINIMUM #12 AWG WITH #12 AWG GROUND WIRE IN 3/4" CONDUIT.

D. ALL CONDUITS SHALL CONTAIN A CODE SIZE EQUIPMENT GROUND CONDUCTOR.

E. ALL CONDUCTORS SHALL BE COPPER THHN/THWN OR XHHW RATED FOR 90 DEGREES CELSIUS.

F. CONTRACTOR TO PERMANENTLY MARK ON JUNCTION BOX COVER, RECEPTACLE COVER PLATE, AND LIGHTING CONTROL DEVICE COVER PLATE WITH THE PANEL NAME AND CIRCUIT NUMBER.

G. ALL EXTERIOR DEVICES/LIGHTING FIXTURES SHALL BE WEATHERPROOF.

H. UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE PLANS. VERIFY FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.

I. PRIOR TO TRENCHING IN ANY AREA, THE ELECTRICAL CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS, CABLE TV, GAS AND WATER (BLUE STAKE) AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. DAMAGE TO ANY UNDERGROUND STRUCTURE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE PROJECT.

J. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS IN THE PANELBOARD.

K. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD.

L. ALL EXPOSED CONDUIT SHALL BE RMC OR IMC.

M. ALL FLEXIBLE CONNECTION SHALL BE LFMC.

N. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND FAMILIARIZE WITH THE PROJECT PRIOR TO THE BID.

O. ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH OWNER.

P. PROVIDE ALL DEMOLITION WORK INCLUDING REMOVAL AND DISPOSAL OF ALL MATERIALS. COORDINATE WITH OWNER FOR SALVAGE INSTRUCTIONS.

Q. ELECTRICAL CONTRACTOR SHALL POSITIVELY IDENTIFY ALL CIRCUITS FEEDING ALL ELECTRICAL DEVICES AND LIGHTING BEFORE DE–ENERGIZING THE CIRCUITS.

R. REMOVE EXISTING ELECTRICAL DEVICES SHOWN TO BE REMOVED. REMOVE WIRE AND CONDUIT BACK TO SOURCE. PROVIDE CONTINUATION OF CIRCUIT WHERE REQUIRED.

S. DEVICE LOCATION SHOWN ON THE PLANS ARE APPROXIMATE. VERIFY EXACT LOCATIONS IN FIELD.

T. DISCONNECT AND REMOVE ALL ABANDONED ELECTRICAL EQUIPMENT SUCH AS CONDUITS, WIRING, SUPPORTS, CLAMPS, STRAPS, BOXES, ETC.

100% REVIEW SET

REV. NO.	DATE	DESCRIPTION	BY

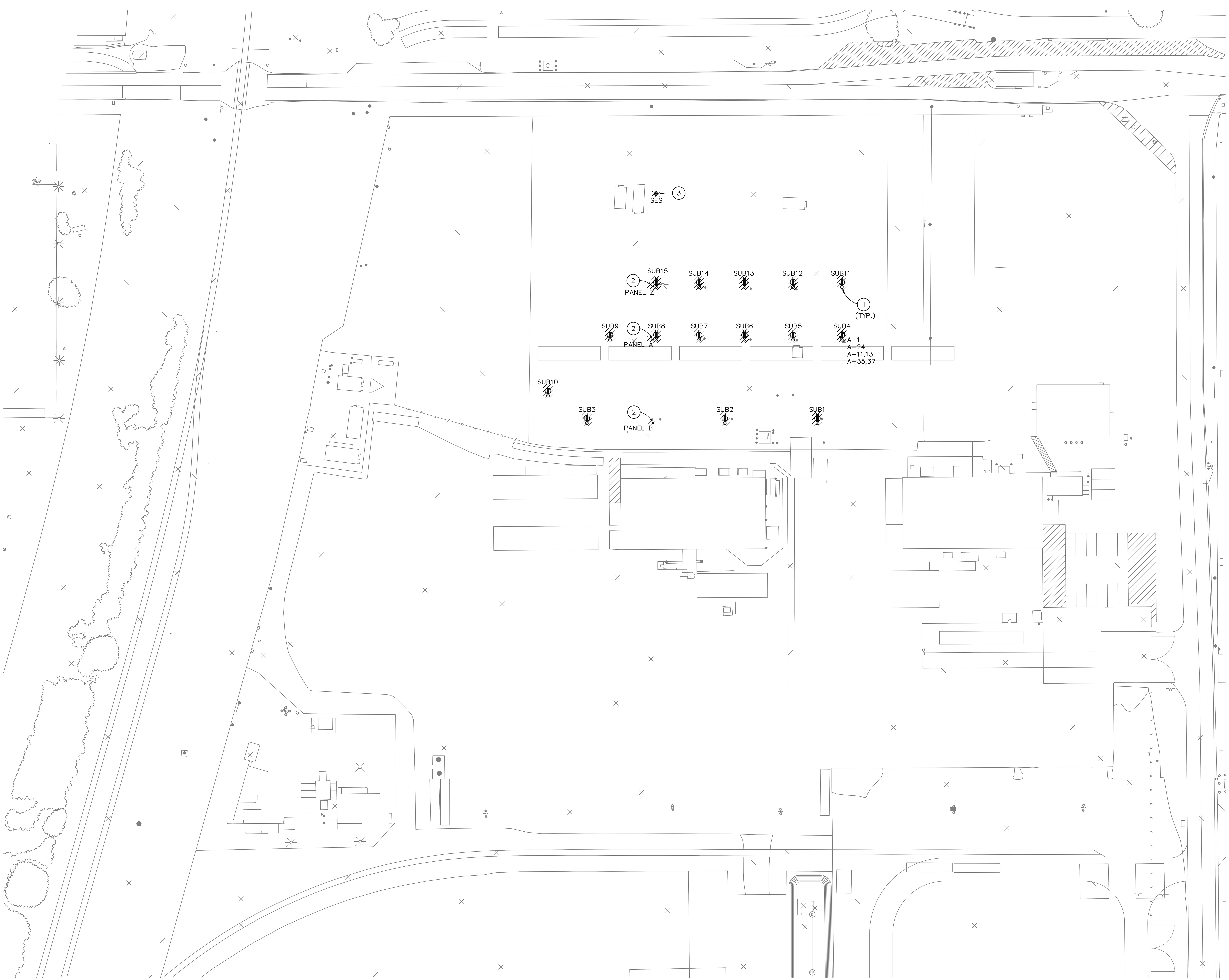
AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

PRELIMINARY NOT FOR CONSTRUCTION

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TSC
ELECTRICAL SITE WORK, PHASE-3
ELECTRICAL LEGENDS & NOTES

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	E000
PROJECT: –	DATE: 05/26/2022	



ELECTRICAL DEMOLITION PLAN

SCALE: 1"=40'-0"

KEY NOTES

1. EXISTING CONCRETE BOLLARD MOUNTED RECEPTACLE TO BE REMOVED. DISCONNECT AND REMOVE ALL BRANCH CIRCUITS BACK TO PANEL. REFER TO DEMO ONE-LINE DIAGRAM ON SHEET E600.
2. EXISTING PANELBOARD TO BE REMOVED. DISCONNECT AND REMOVE MAIN FEEDER. VERIFY AND DISCONNECT ALL BRANCH CIRCUITS. REMOVE GUTTER, RECEPTACLE AND UNISTRUT STAND. REFER TO DEMO ONE-LINE DIAGRAM ON SHEET E600.
3. EXISTING WOODEN POLE MOUNTED UTILITY TRANSFORMER AND SES TO BE REMOVED. COORDINATE REMOVAL OF PRIMARY FEEDER AND WOODEN POLE WITH SRP PROJECT MANAGER. REFER TO DEMO ONE-LINE DIAGRAM ON SHEET E600.

REV. NO.	DATE	DESCRIPTION	BY

AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

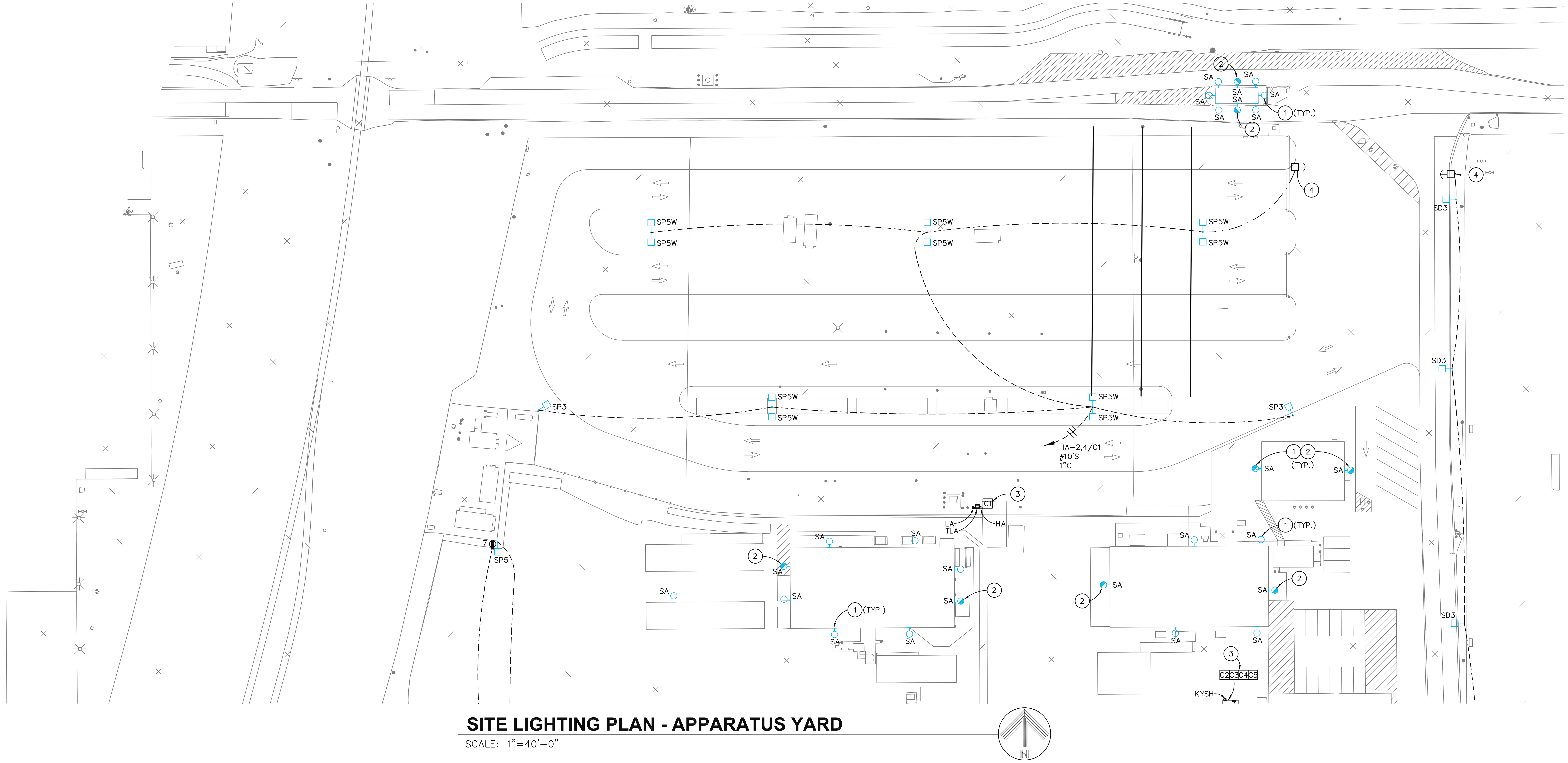
PRELIMINARY NOT FOR CONSTRUCTION

SRP SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

100% REVIEW SET

SRP TSC
ELECTRICAL SITE WORK, PHASE-3
ELECTRICAL DEMOLITION PLAN

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	E101
PROJECT: –	DATE: 05/26/2022	



SITE LIGHTING PLAN - APPARATUS YARD

SCALE: 1"=40'-0"

KEY NOTES

1. REPLACE EXISTING WALL MOUNTED FIXTURES WITH NEW AS SHOWN. CONNECT TO EXISTING LIGHTING CIRCUIT. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE OF EXISTING FIXTURE PRIOR TO PURCHASE OF NEW.
2. PROVIDE NEW 100W EMERGENCY LIGHT INVERTER. ELECTRICAL CONTRACTOR TO VERIFY VOLTAGE OF EXISTING LIGHTING CIRCUIT PRIOR TO PURCHASE.
3. PROVIDE LIGHTING CONTACTOR RATED FOR OUTDOOR USE WITH 30AMP CONTACTS AND 120V COIL. REFER TO CONTACTOR DETAIL 4/E900.
4. PROVIDE REMOTE PUSH-BUTTON FOR LIGHTING TIMER CONTROLLER CONTROL. MOUNT TO 6"ø PIPE BOLLARD, REFER TO DETAIL 5/E900. LOCATION TO BE MARKED PER SIGN DETAIL 6/E900.

REV. NO.	DATE	DESCRIPTION	BY

100% REVIEW SET

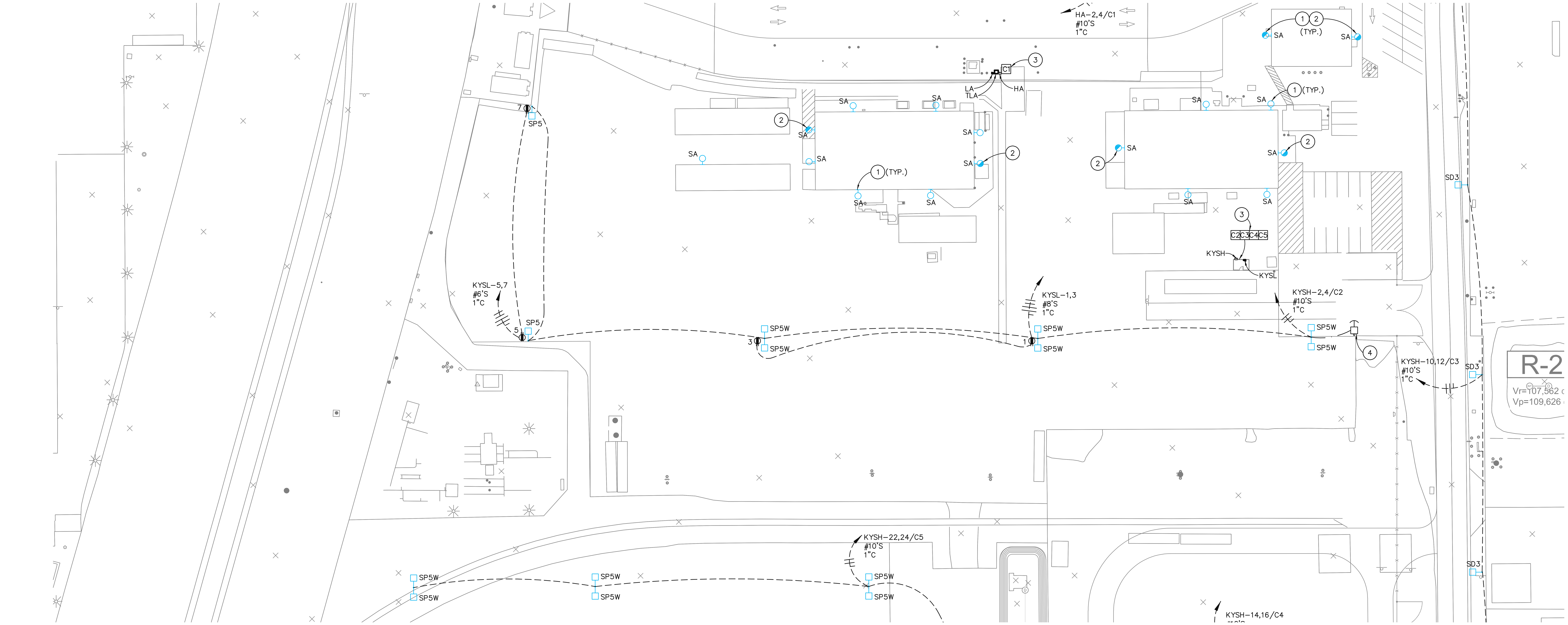
PRELIMINARY NOT FOR CONSTRUCTION

AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

SALT RIVER PROJECT
FACILITIES SERVICES
PHOENIX, ARIZONA

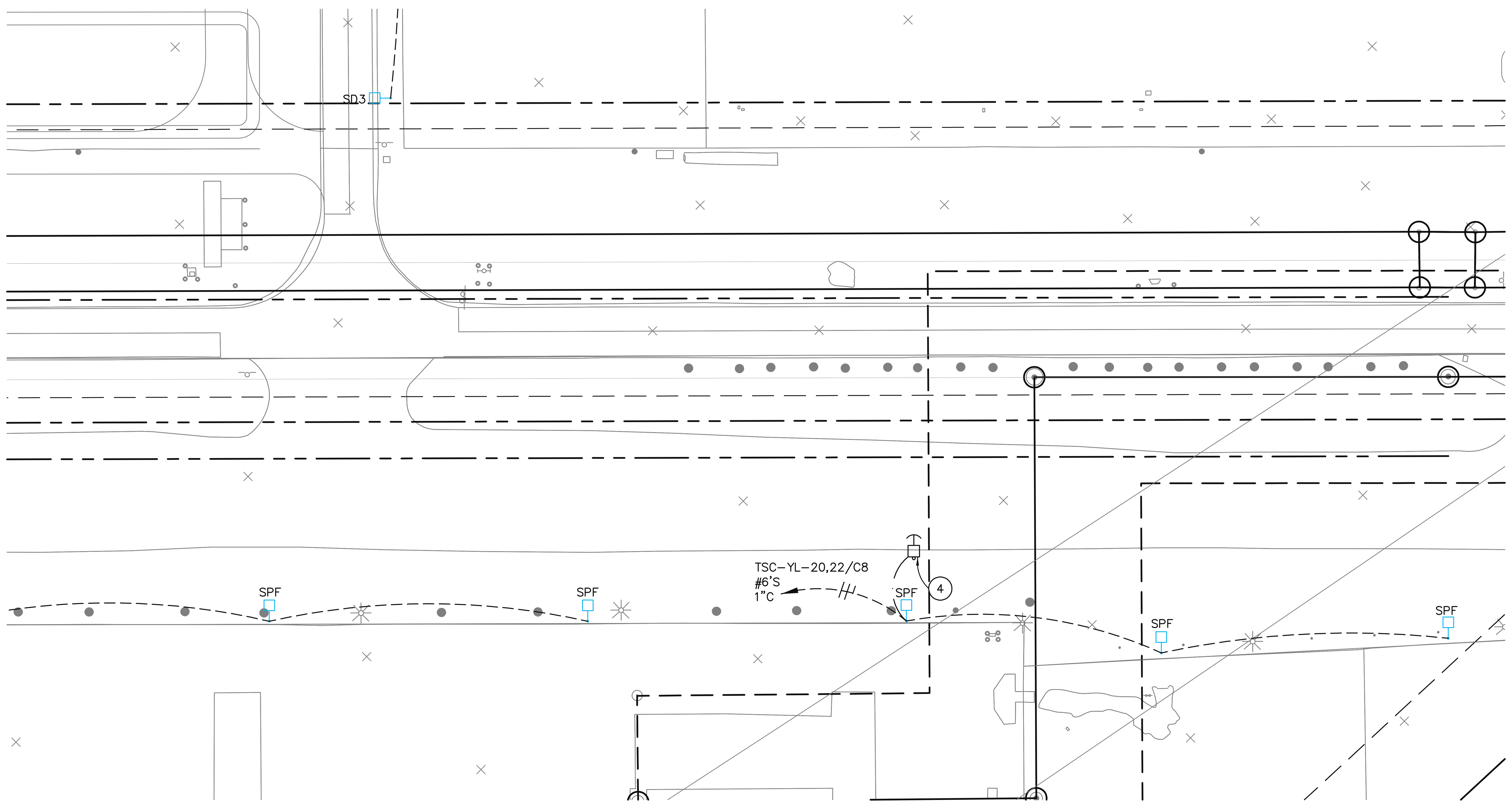
SRP TSC
ELECTRICAL SITE WORK, PHASE-3
SITE LIGHTING PLAN

SCALE: AS NOTED	DRAWN BY:AM	SHEET # E201
FILENAME:	DESIGNED BY:SW	
PROJECT: –	DATE: 05/26/2022	



SITE LIGHTING PLAN - RECLAMATION

SCALE: 1"=40'-0"



SITE LIGHTING PLAN - WAREHOUSE

SCALE: 1"=40'-0"

KEY NOTES

1. REPLACE EXISTING WALL MOUNTED FIXTURES WITH NEW AS SHOWN. CONNECT TO EXISTING LIGHTING CIRCUIT. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE OF EXISTING FIXTURE PRIOR TO PURCHASE OF NEW.
2. PROVIDE NEW 100W EMERGENCY LIGHT INVERTER. ELECTRICAL CONTRACTOR TO VERIFY VOLTAGE OF EXISTING LIGHTING CIRCUIT PRIOR TO PURCHASE.
3. PROVIDE LIGHTING CONTACTOR RATED FOR OUTDOOR USE WITH 30AMP CONTACTS AND 120V COIL. REFER TO CONTACTOR DETAIL 4/E900.
4. PROVIDE REMOTE PUSH-BUTTON FOR LIGHTING TIMER CONTROLLER CONTROL. MOUNT TO 6"ø PIPE BOLLARD, REFER TO DETAIL 5/E900. LOCATION TO BE MARKED PER SIGN DETAIL 6/E900.

100% REVIEW SET

REV. NO.	DATE	DESCRIPTION	BY

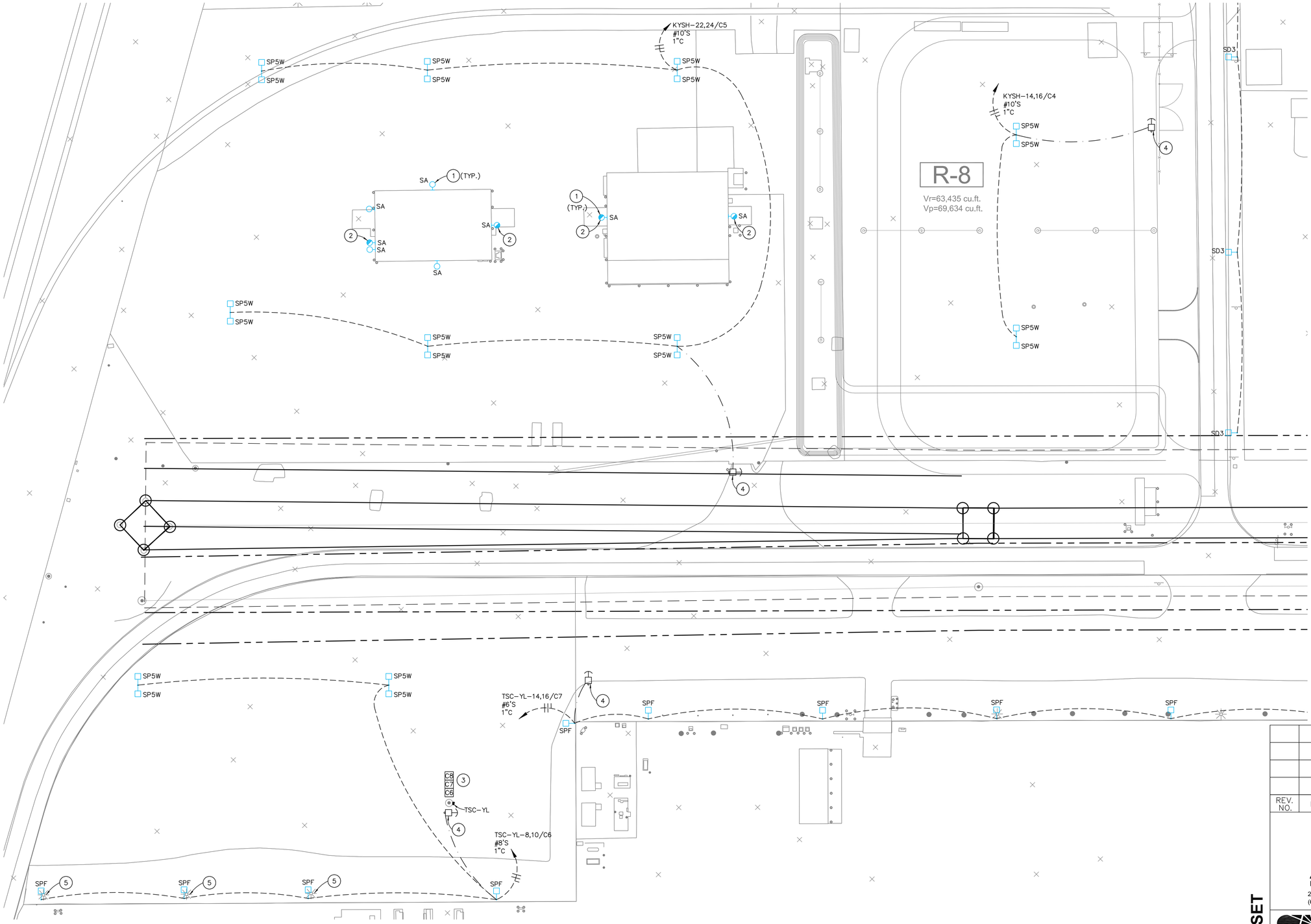
AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

PRELIMINARY NOT FOR CONSTRUCTION

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TSC
ELECTRICAL SITE WORK, PHASE-3
SITE
LIGHTING PLAN

SCALE: AS NOTED	DRAWN BY:AM	SHEET # E202
FILENAME:	DESIGNED BY:SW	
PROJECT: –	DATE: 05/26/2022	



SITE LIGHTING PLAN - WAREHOUSE & SUBSTATION

SCALE: 1"=40'-0"

KEY NOTES

1. REPLACE EXISTING WALL MOUNTED FIXTURES WITH NEW AS SHOWN. CONNECT TO EXISTING LIGHTING CIRCUIT. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE OF EXISTING FIXTURE PRIOR TO PURCHASE OF NEW.
2. PROVIDE NEW 100W EMERGENCY LIGHT INVERTER. ELECTRICAL CONTRACTOR TO VERIFY VOLTAGE OF EXISTING LIGHTING CIRCUIT PRIOR TO PURCHASE.
3. PROVIDE LIGHTING CONTACTOR RATED FOR OUTDOOR USE WITH 30AMP CONTACTS AND 120V COIL. REFER TO CONTACTOR DETAIL 4/E900.
4. PROVIDE REMOTE PUSH-BUTTON FOR LIGHTING TIMER CONTROLLER CONTROL. MOUNT TO 6"ø PIPE BOLLARD, REFER TO DETAIL 5/E900. LOCATION TO BE MARKED PER SIGN DETAIL 6/E900.
5. DISCONNECT AND REMOVE EXISTING FLOOD LIGHT AND EXISTING WOODEN POLE, RETURN TO SRP STOCK PILE, COORDINATE WITH SRP PROJECT MANAGER FOR EXACT INSTRUCTIONS.

REV. NO.	DATE	DESCRIPTION	BY

AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

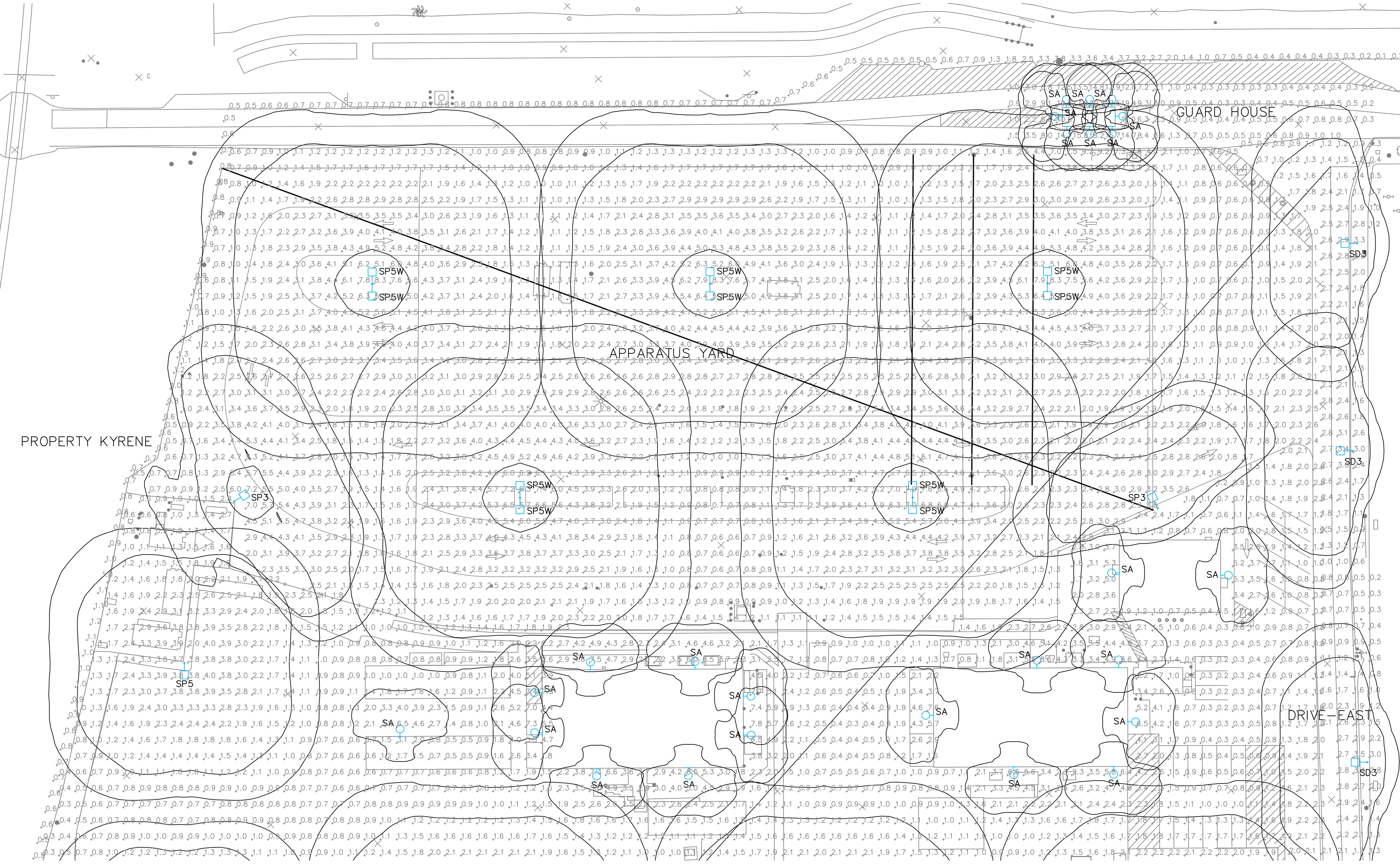
PRELIMINARY NOT FOR CONSTRUCTION

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

100% REVIEW SET

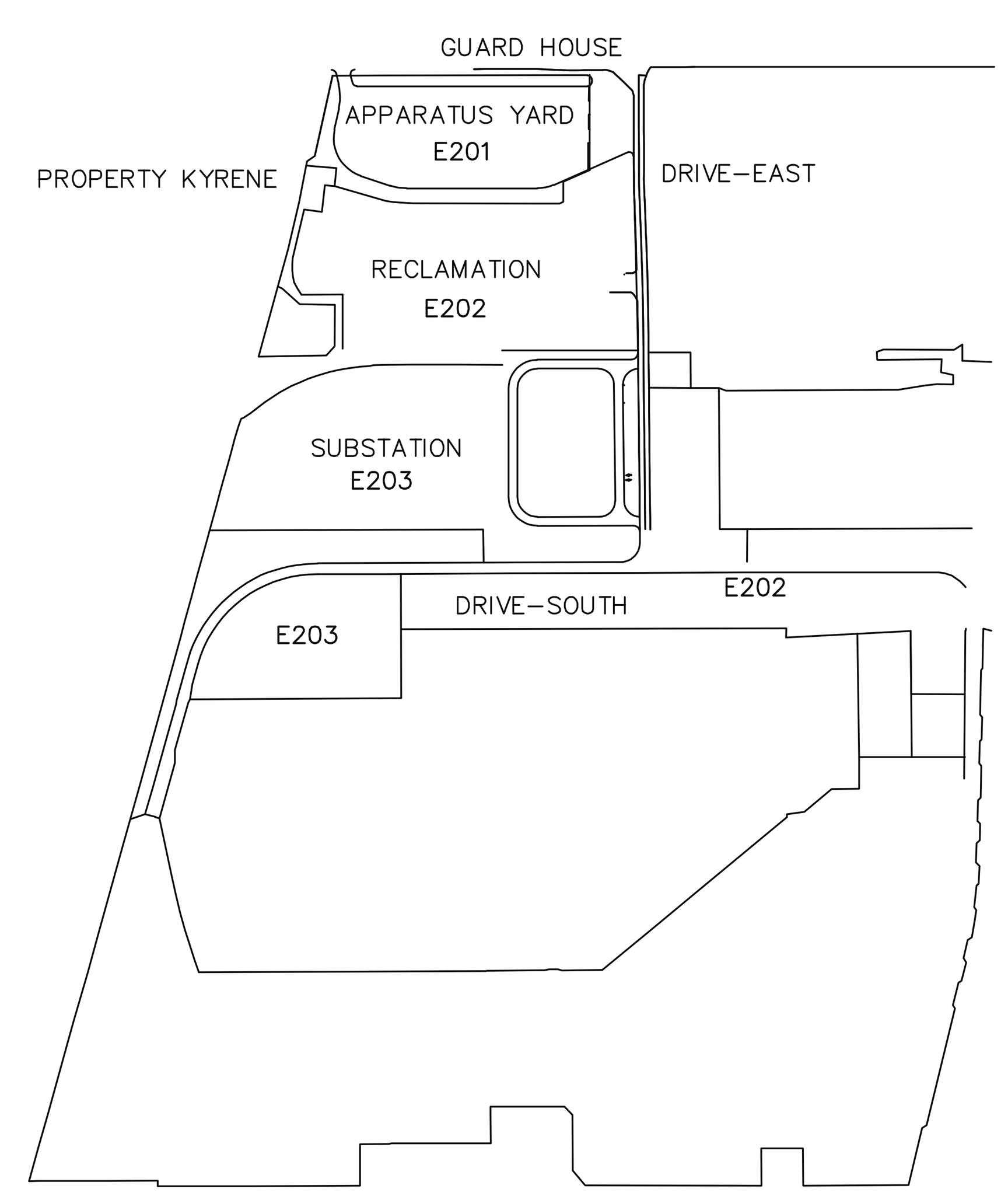
SRP TSC
ELECTRICAL SITE WORK, PHASE-3
SITE
LIGHTING PLAN

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	E203
PROJECT: -	DATE: 05/26/2022	



PHOTOMETRIC SITE PLAN - APPARATUS YARD

SCALE: 1"=40'-0"



SHEET LEGEND

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
APPARATUS YARD	+	2.5 fc	9.2 fc	0.5 fc	18.4:1	5.0:1
DRIVE-EAST	+	1.7 fc	3.5 fc	0.2 fc	17.5:1	8.5:1
DRIVE-SOUTH	+	1.4 fc	7.6 fc	0.0 fc	N/A	N/A
GUARD HOUSE	+	4.3 fc	20.8 fc	0.2 fc	104.0:1	21.5:1
PROPERTY KYRENE	+	0.9 fc	3.8 fc	0.1 fc	38.0:1	9.0:1
RECLAMATION	+	1.9 fc	8.6 fc	0.2 fc	43.0:1	9.5:1
SUBSTATION	+	2.1 fc	17.9 fc	0.2 fc	89.5:1	10.5:1

Schedule

Symbol	Label	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	SA	Lithonia Lighting	DSXW1 LED 20C 1000 40K T4M MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T4M OPTIC, 4000K, @ 1000mA.	1	7420	0.9	73.2
	SP3	Lithonia Lighting	DSX2 LED P8 40K T3M MVOLT	DSX2 LED P8 40K T3M MVOLT	1	47777	0.9	431
	SA4	Lithonia Lighting	DSX2 LED P6 40K T4M MVOLT	DSX2 LED P6 40K T4M MVOLT	1	39925	0.9	343
	SP5	Lithonia Lighting	DSX2 LED P8 40K T5M MVOLT	DSX2 LED P8 40K T5M MVOLT	1	51064	0.9	431
	SP5 W	Lithonia Lighting	DSX2 LED P8 40K T5W MVOLT	DSX2 LED P8 40K T5W MVOLT	1	50729	0.9	862
	SPF	Lithonia Lighting	DSX2 LED P8 40K TFTM MVOLT	DSX2 LED P8 40K TFTM MVOLT	1	49183	0.9	431
	SD3	Lithonia Lighting	DSX2 LED P2 40K T3M MVOLT	DSX2 LED P2 40K T3M MVOLT	1	23365	0.9	185

100% REVIEW SET

REV. NO.	DATE	DESCRIPTION	BY

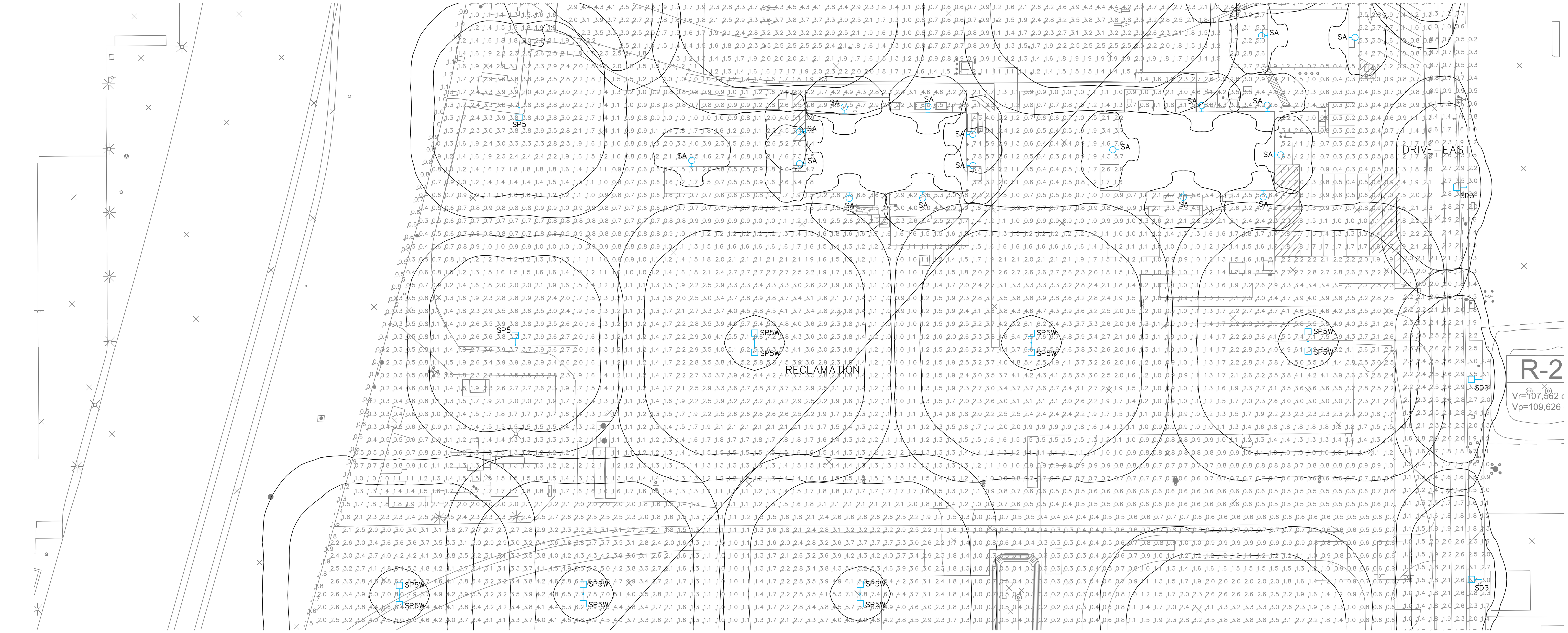
AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

PRELIMINARY NOT FOR CONSTRUCTION

SALT RIVER PROJECT
FACILITIES SERVICES
PHOENIX, ARIZONA

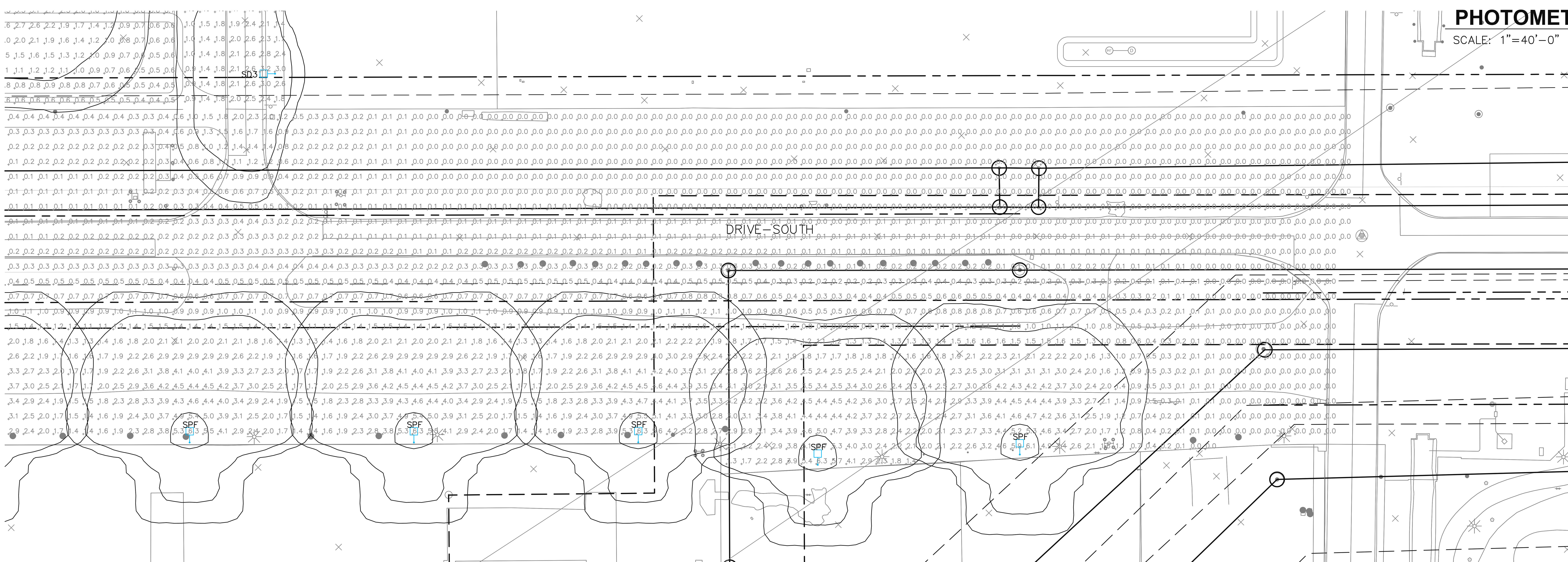
SRP TSC
ELECTRICAL SITE WORK, PHASE-3
PHOTOMETRIC SITE PLAN

SCALE: AS NOTED	DRAWN BY:AM	SHEET # E204
FILENAME:	DESIGNED BY:SW	
PROJECT: –	DATE: 05/26/2022	



PHOTOMETRIC SITE PLAN - RECLAMATION

SCALE: 1"=40'-0"



PHOTOMETRIC SITE PLAN - WAREHOUSE

SCALE: 1"=40'-0"

100% REVIEW SET

REV. NO.	DATE	DESCRIPTION	BY

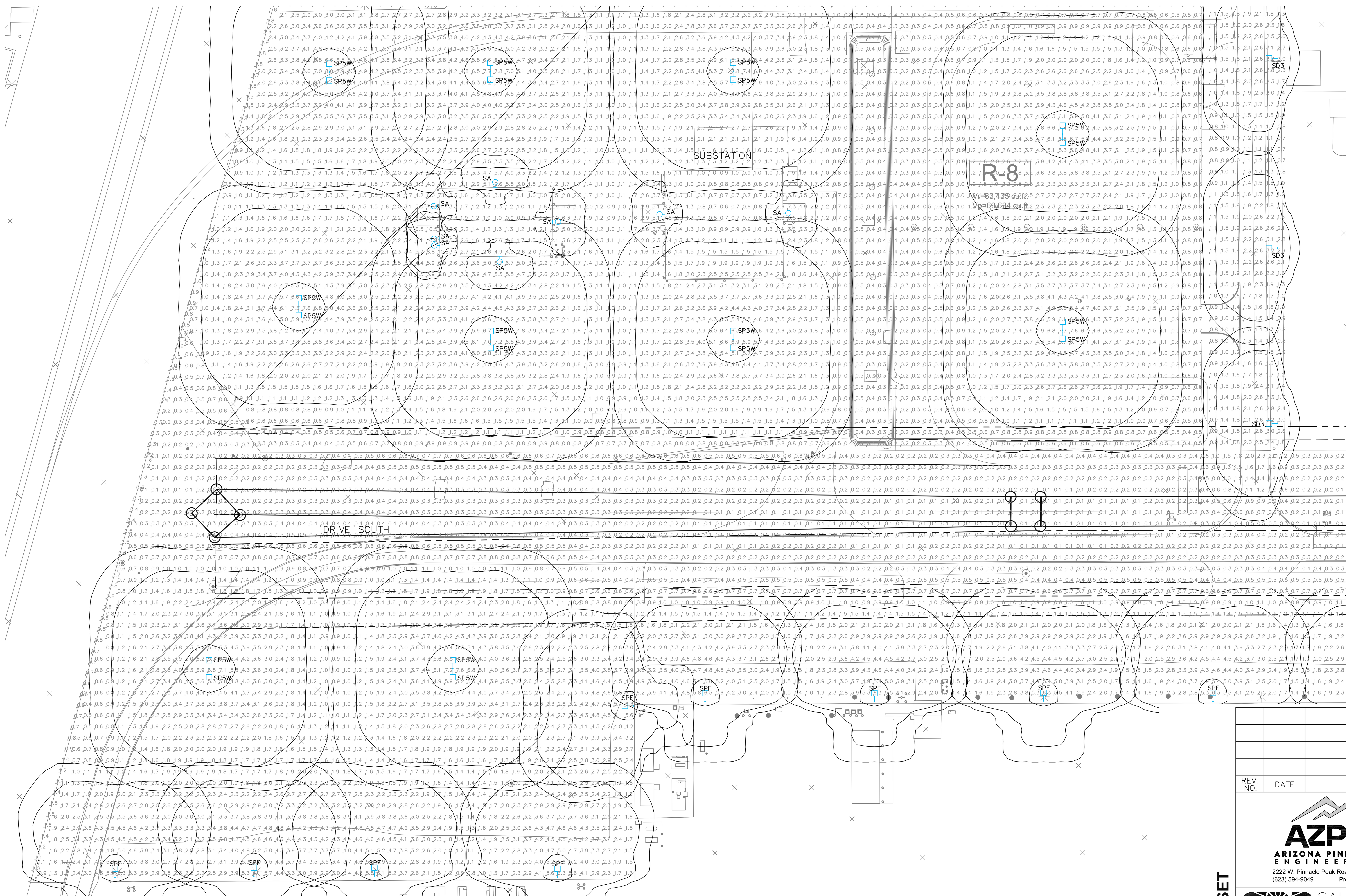
AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

PRELIMINARY NOT FOR CONSTRUCTION

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TSC
ELECTRICAL SITE WORK, PHASE-3
PHOTOMETRIC SITE PLAN

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	E205
PROJECT: –	DATE: 05/26/2022	



PHOTOMETRIC SITE PLAN - WAREHOUSE & SUBSTATION

SCALE: 1"=40'-0"

REV. NO.	DATE	DESCRIPTION	BY

AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

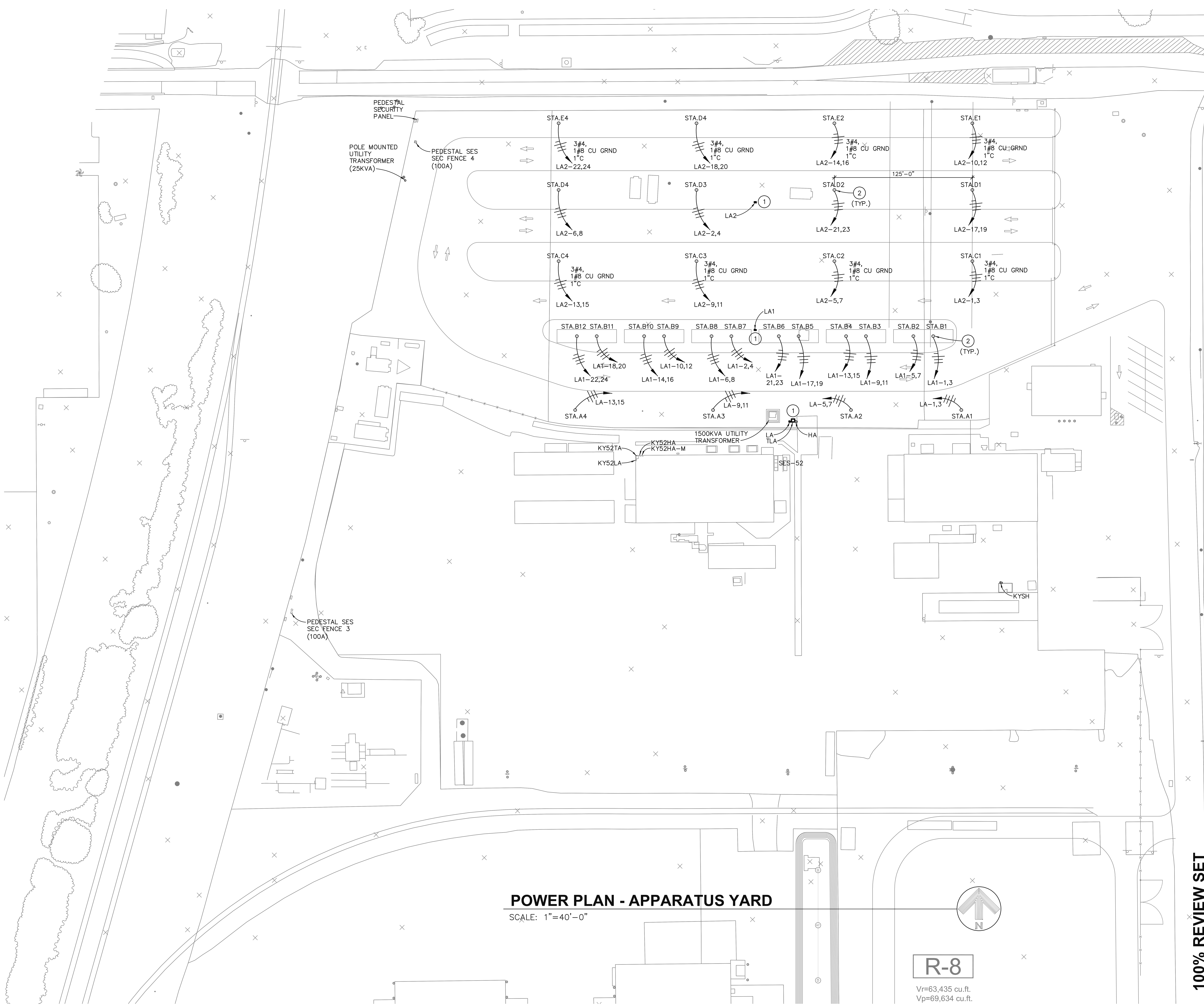
PRELIMINARY NOT FOR CONSTRUCTION

100% REVIEW SET

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TSC
ELECTRICAL SITE WORK, PHASE-3
PHOTOMETRIC
SITE PLAN

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	E206
PROJECT: –	DATE: 05/26/2022	



POWER PLAN - APPARATUS YARD

SCALE: 1"=40'-0"

KEY NOTES

1. PROVIDE NEW ELECTRICAL PANELS/TRANSFORMER. MOUNT ON UNISTRUT STAND.
2. PROVIDE 6"ø STEEL PIPE BOLLARD WITH A 50AMP, 120/208V/1ø WEATHERPROOF RECEPTACLE. PROVIDE BRANCH CIRCUIT WITH 3#6, 1#10 CU GROUND IN A 1" CONDUIT UNLESS NOTED OTHERWISE.

REV. NO.	DATE	DESCRIPTION	BY

AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

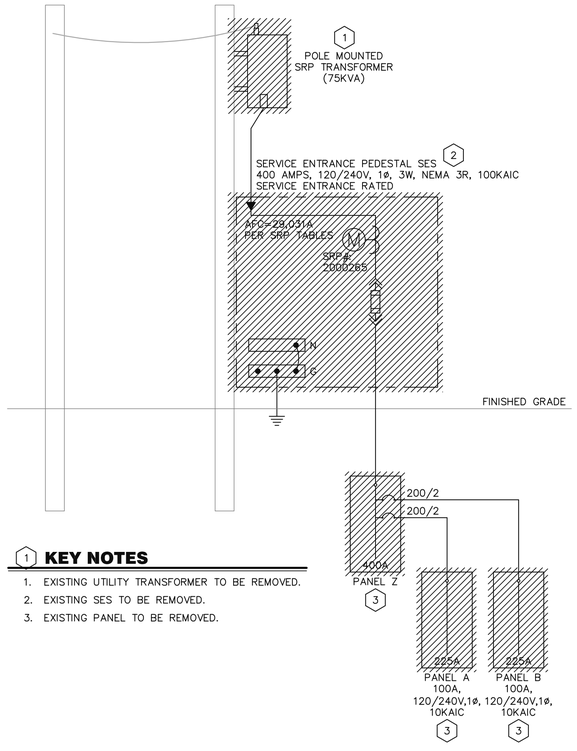
PRELIMINARY NOT FOR CONSTRUCTION

100% REVIEW SET

SRP SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TSC
ELECTRICAL SITE WORK, PHASE-3
POWER PLAN

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	E301
PROJECT: –	DATE: 05/26/2022	

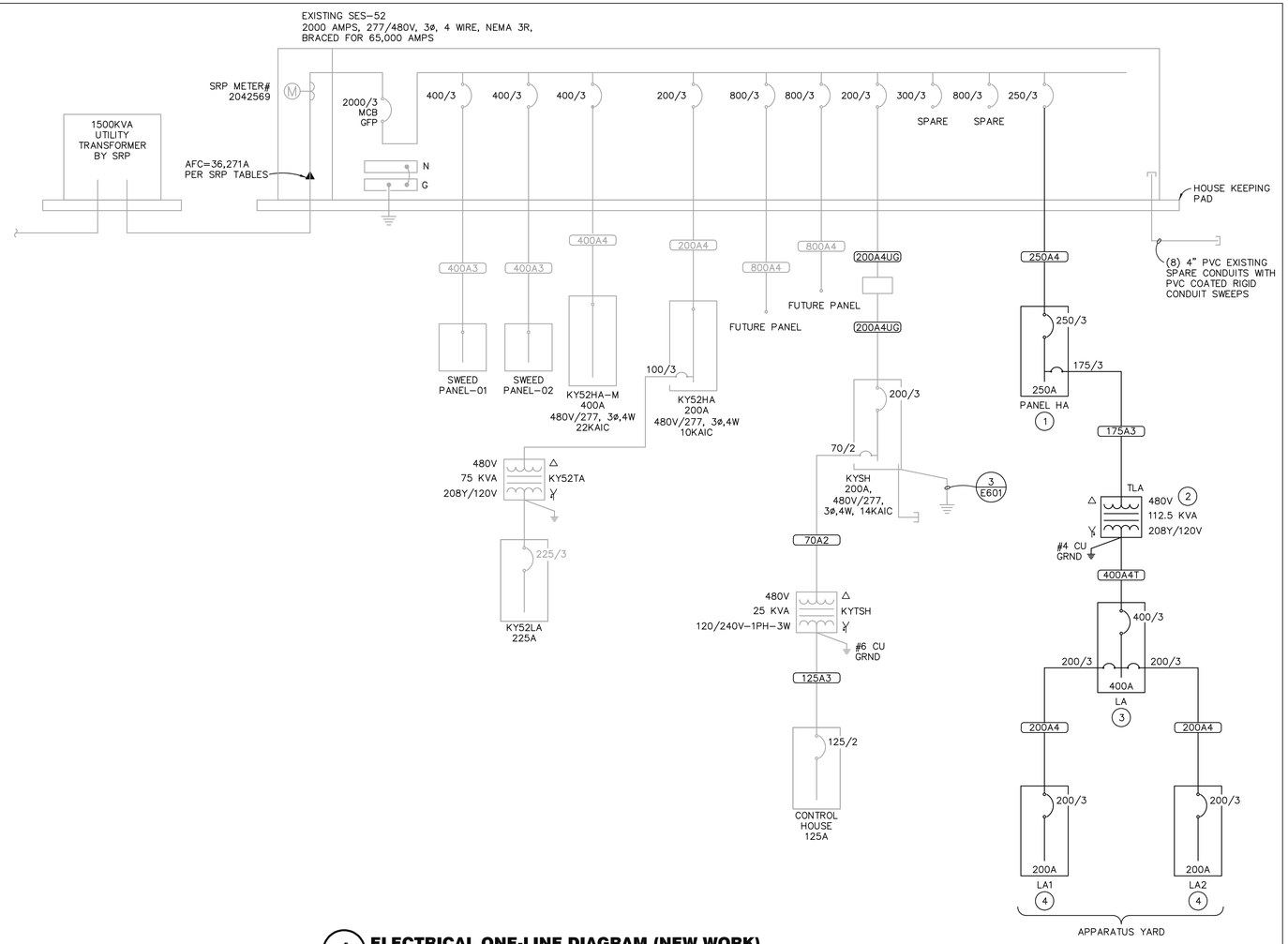


1 KEY NOTES

1. EXISTING UTILITY TRANSFORMER TO BE REMOVED.
2. EXISTING SES TO BE REMOVED.
3. EXISTING PANEL TO BE REMOVED.

2 ELECTRICAL ONE-LINE DIAGRAM (DEMO WORK)

NTS



1 ELECTRICAL ONE-LINE DIAGRAM (NEW WORK)

NTS

KEY NOTES

1. PROVIDE NEW 250A MAIN CIRCUIT BREAKER, 277/480V, 3ø, 4W, 14KAIC RATED PANELBOARD IN NEMA 3R ENCLOSURE.
2. PROVIDE NEW 112.5KVA TRANSFORMER IN NEMA 3R ENCLOSURE.
3. PROVIDE NEW 400A MAIN CIRCUIT BREAKER, 120/208V, 3ø, 4W, 10KAIC RATED PANELBOARD IN NEMA 3R ENCLOSURE.
4. PROVIDE NEW 200A MAIN CIRCUIT BREAKER, 120/208V, 3ø, 4W, 10KAIC RATED PANELBOARD IN NEMA 3R ENCLOSURE.

CONDUIT AND FEEDER SCHEDULE

MARK	CONDUIT QTY	CONDUIT SIZE	CONDUCTORS EACH CONDUIT QTY	CONDUCTORS EACH CONDUIT SIZE	GROUND
400A4	1	3 1/2"	4	600KCMIL	#2
400A3	1	3 1/2"	3	600KCMIL	#2
400A4T	2	2"	4	#3/0	#1/0
250A4	1	2 1/2"	4	250KCMIL	#4
225A3	1	2"	3	#4/0	#4
200A4V	1	2 1/2"	4	#4/0	#4
200A4	1	2"	4	#3/0	#6
200A3	1	2"	3	#3/0	#6
175A3	1	2"	3	#2/0	#6
100A4	1	1 1/2"	4	#1	#8

NOTES:
1. MV – MEDIUM VOLTAGE CONDUCTORS SHALL BE COPPER, TYPE MV-105, 105 DEGREE C, 133% WITH COPPER TAPE SHIELD. MV FEEDERS SHALL HAVE 600V COPPER EQUIPMENT GROUNDS.
2. ALL OTHER CONDUCTORS ARE COPPER, 600V, XHHW-2 OR THWN-2 EXCEPT WHERE NOTED.
3. MC – METAL CLAD CABLE
4. PMC – METAL CLAD CABLE WITH PVC JACKET
5. BD – BUSDUCT TO BE THE SAME MANUFACTURER AS SWITCHGEAR.

REV. NO.	DATE	DESCRIPTION	BY

AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

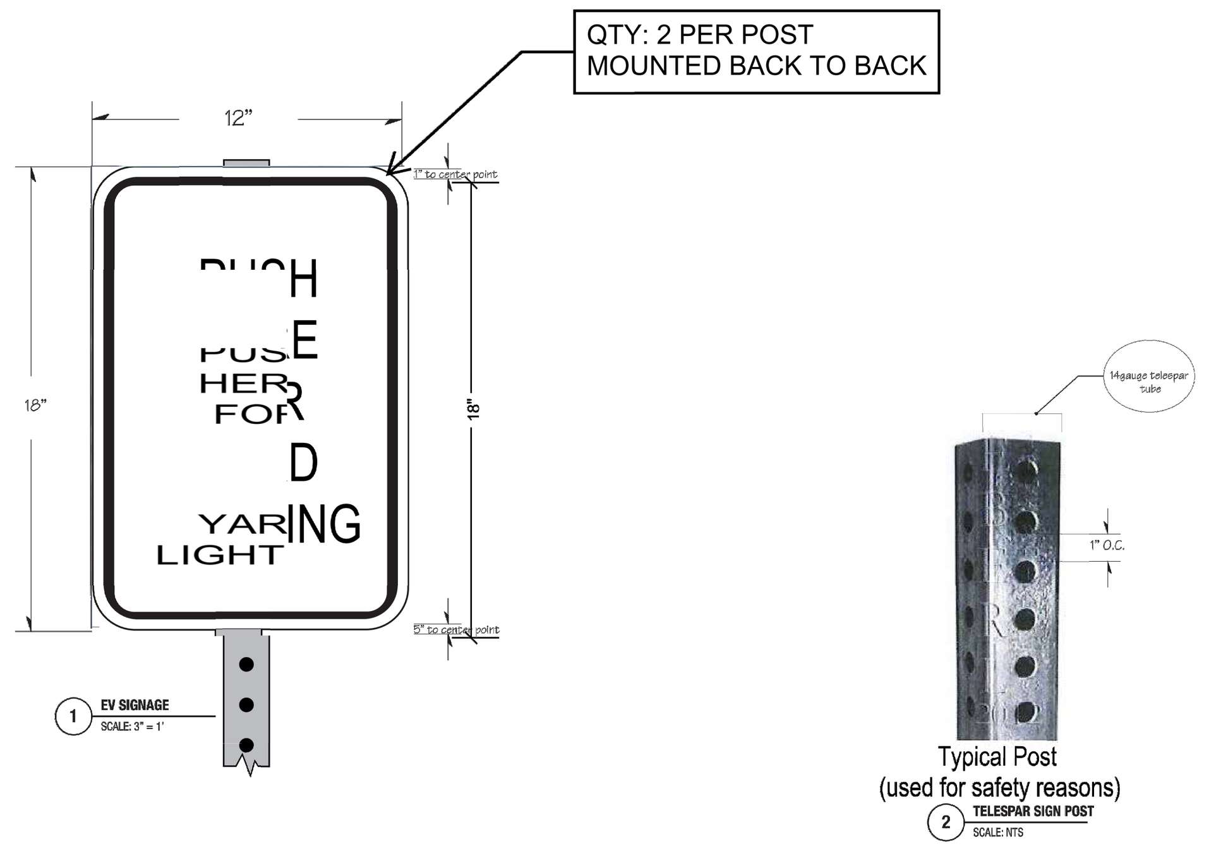
PRELIMINARY NOT FOR CONSTRUCTION

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

100% REVIEW SET

SRP TSC
ELECTRICAL SITE WORK, PHASE-3
ELECTRICAL ONE-LINE DIAGRAM

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	E600
PROJECT: –	DATE: 05/26/2022	



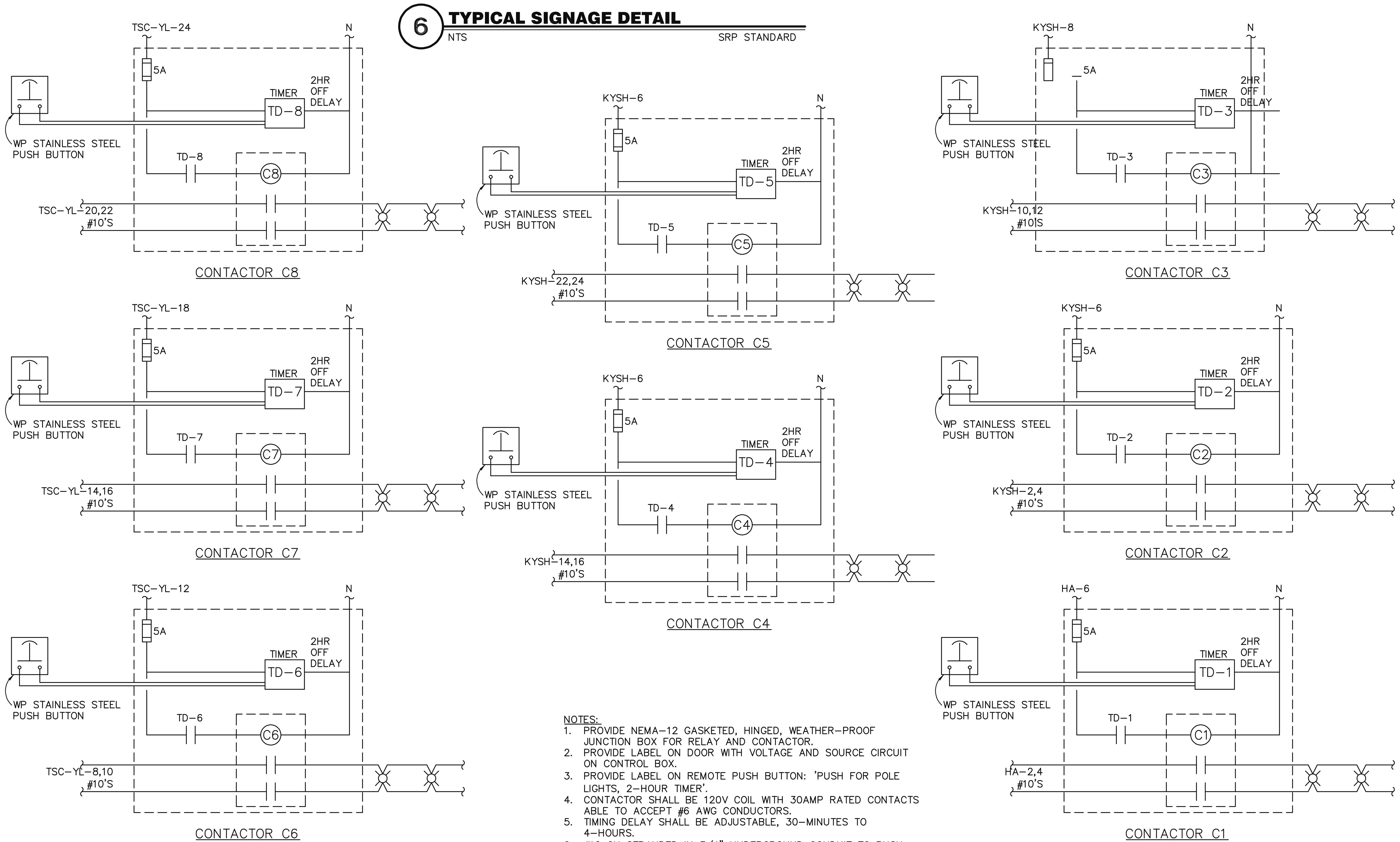
SIGN FACE
1. Size: see pictures
(2) .375 Holes, "Aluminum Sign Blank Clad with 3m Reflective (30 EG)
Fasteners: (2) : 1 1/2"
1" From Top/Bottom
Nue 5/16"x2.5"Bolt w/ 5/16-18 Alum Tamper Proof
Colors: Highwa SUBSTRATE PRINT
aminate Protective Overlay/ Dibond for EV
Font Height 1.5 ng only)
y Std.
Font: Helvetica Neue Lt 67 MdCn
4. SIGN POST ninate 8520-CP
Post 2" Galvanized Steel Telespar with break-away sleeve
Height as shown
5. MOUNTING Use Metal banding with (2) 5/16" bolts with Tamper-Proof for attachments.
Top & Bottom Bolt to Sign Post
Core-Drilling Into Floor w/ Exp. Cement
Sign Size 8"Dia Set into round
6. Direct Embedment
Hole Min. x 33" D
Direct Embedment: (2) Quickrete 50lb.

US Dept of Transportation, Manual on Uniform Traffic Control Devices:
https://mutcd.fhwa.dot.gov/pdfs/2009r1r2/mutcd2009r1r2edition.pdf

SRP Delivering water and power™

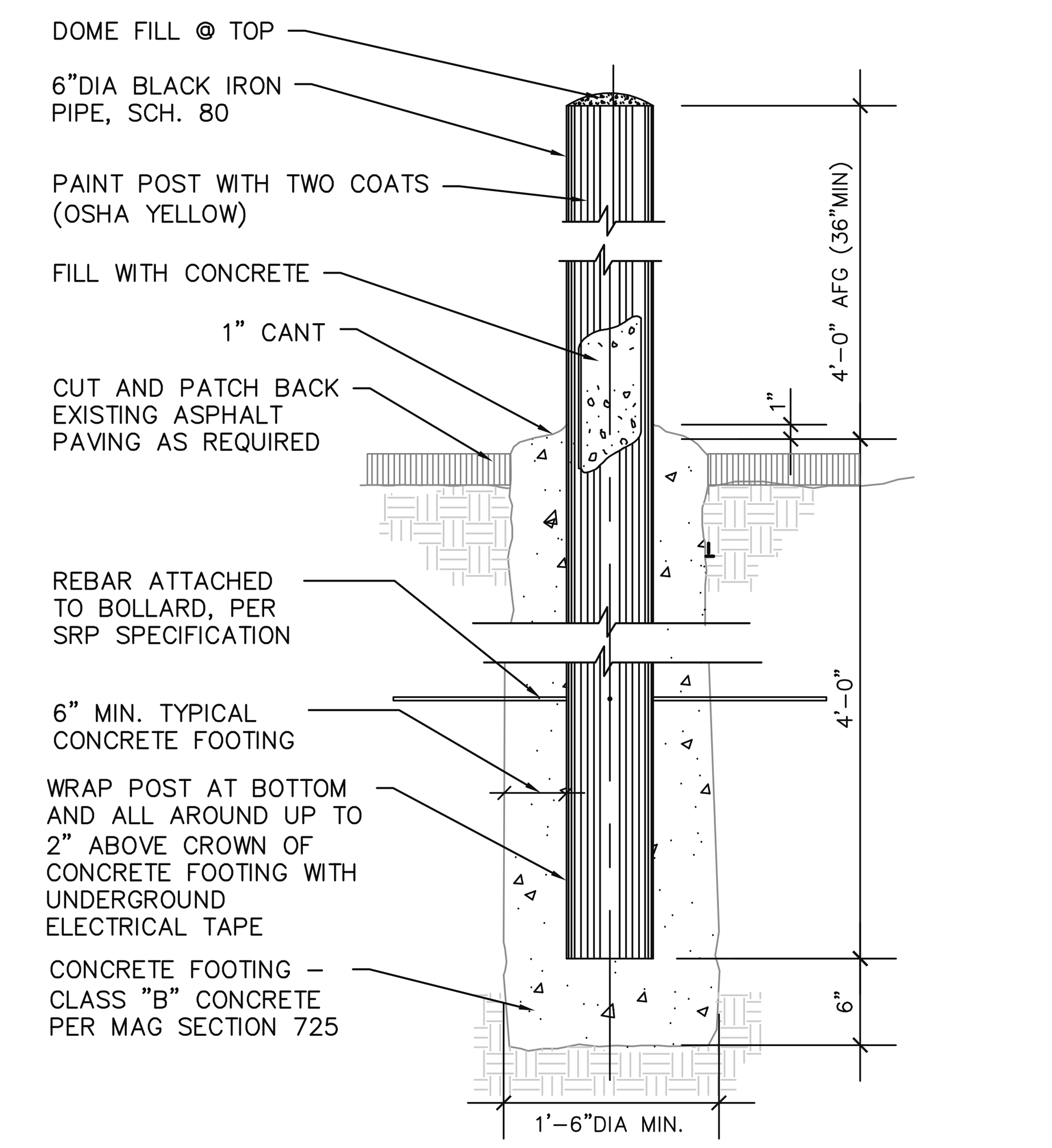
Exterior Traffic signs

6 TYPICAL SIGNAGE DETAIL
NTS SRP STANDARD

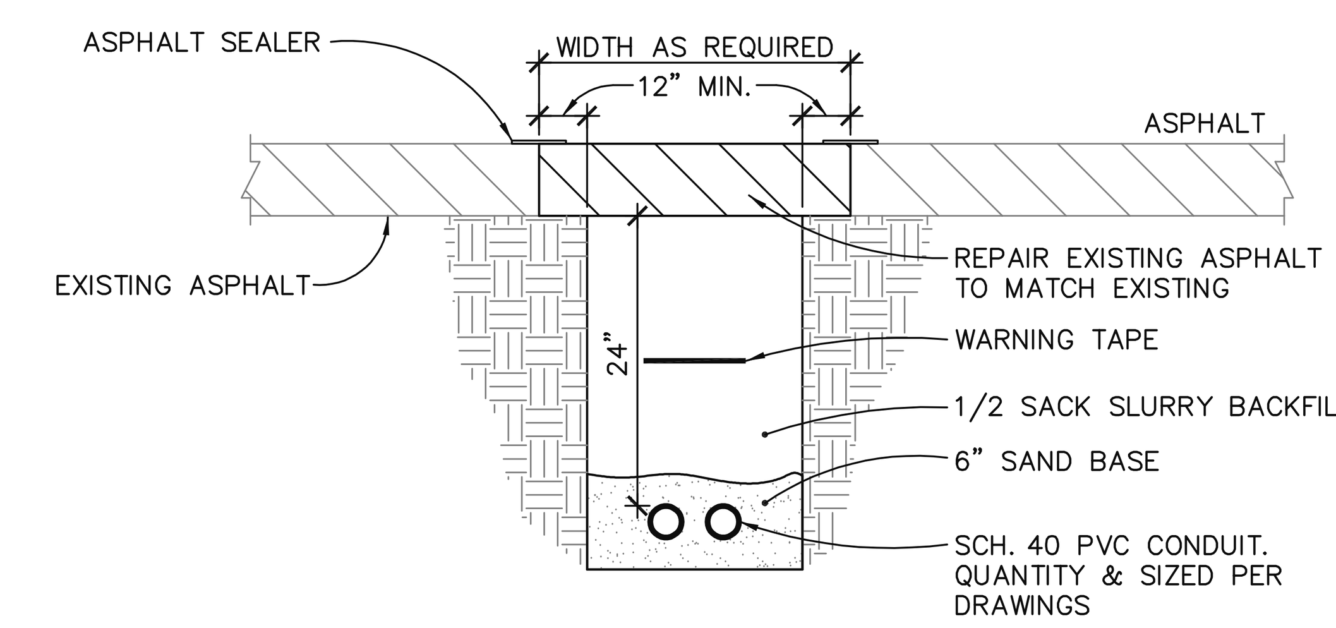


NOTES:
1. PROVIDE NEMA-12 GASKETED, HINGED, WEATHER-PROOF JUNCTION BOX FOR RELAY AND CONTACTOR.
2. PROVIDE LABEL ON DOOR WITH VOLTAGE AND SOURCE CIRCUIT ON CONTROL BOX.
3. PROVIDE LABEL ON REMOTE PUSH BUTTON: 'PUSH FOR POLE LIGHTS, 2-HOUR TIMER'.
4. CONTACTOR SHALL BE 120V COIL WITH 30AMP RATED CONTACTS ABLE TO ACCEPT #6 AWG CONDUCTORS.
5. TIMING DELAY SHALL BE ADJUSTABLE, 30-MINUTES TO 4-HOURS.
6. #12 CU STRANDED IN 3/4" UNDERGROUND CONDUIT TO PUSH BUTTON.

4 LIGHTING CONTACTORS
NTS

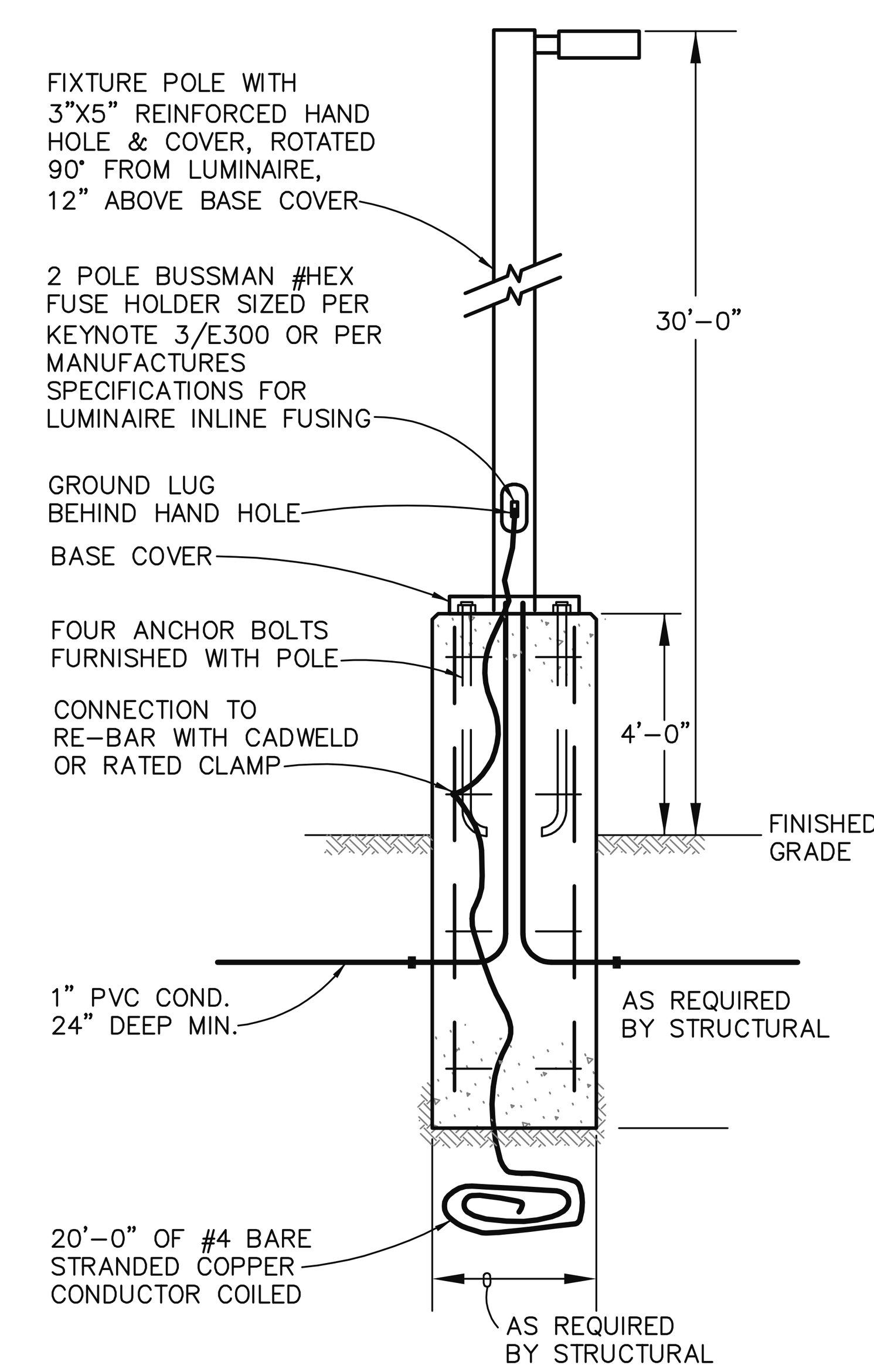


5 TYPICAL 6" BOLLARD DETAIL - VEHICLE
NTS SRP STANDARD



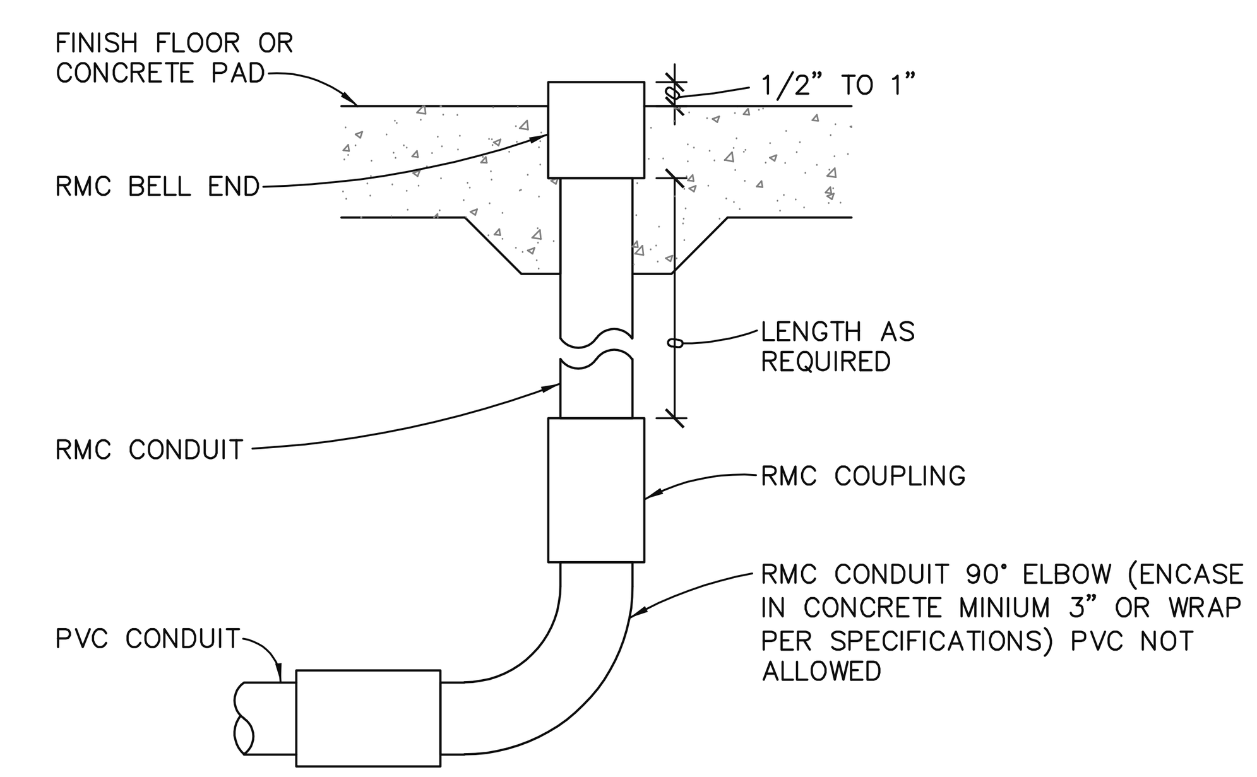
NOTES:
1. PROVIDE WARNING TAPE AT A DEPTH OF 12" BFG ABOVE CONDUIT BANK.
2. CONTRACTOR SHALL VERIFY ALL CONDUITS AND CONDUIT ROUTING.

1 UNDERGROUND CONDUIT
NTS



NOTE: THIS DETAIL IS SHOWN FOR ELECTRICAL INFORMATION ONLY. REFER TO LIGHTPOLE DETAIL 101/SK1 IN THE STRUCTURAL REPORT FOR STRUCTURAL INFORMATION.

3 LIGHT POLE DETAIL
NTS



2 CONDUIT STUB UP TO ELECTRICAL EQUIPMENT
NTS

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NO.	LAMPS NO.	LAMPS TYPE	VOLT	MOUNT	REMARKS
SA	LITHONIA	DSXW1-LED-20C-1000-40K-T4M-* DDBXD	-	431W LED 4000K	480	POLE	POLE LIGHT FIXTURE WITH TYPE 3 MEDIUM OPTICS, REFER TO DETAIL 3/E900
SP3	LITHONIA	DSX2-LED-P8-40K-T3M-480 SPA-DDBXD	-	431W LED 4000K	480	POLE	POLE LIGHT FIXTURE WITH TYPE 3 MEDIUM OPTICS, REFER TO DETAIL 3/E900
SP5	LITHONIA	DSX2-LED-P8-40K-T5M-480 SPA-DDBXD	-	431W LED 4000K	480	POLE	POLE LIGHT FIXTURE WITH TYPE 5 MEDIUM OPTICS, REFER TO DETAIL 3/E900
SP5W	LITHONIA	DSX2-LED-P8-40K-T5W-* SPA-DDBXD	-	431W LED 4000K	240/480	POLE	POLE LIGHT FIXTURE WITH TYPE 5 WIDE OPTICS, REFER TO DETAIL 3/E900
SPF	LITHONIA	DSX2-LED-P8-40K-TFTM-* SPA-DDBXD	-	431W LED 4000K	240/480	POLE	POLE LIGHT FIXTURE WITH FORWARD THROW OPTICS, REFER TO DETAIL 3/E900
SD3	LITHONIA	DSX2-LED-P2-40K-T3M-480 SPA-DDBXD	-	185W LED 4000K	480	POLE	POLE LIGHT FIXTURE WITH TYPE 3 MEDIUM OPTICS, REFER TO DETAIL 3/E900

REV. NO.	DATE	DESCRIPTION	BY

100% REVIEW SET

AZPE ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

PRELIMINARY NOT FOR CONSTRUCTION

SRP SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TSC
ELECTRICAL SITE WORK, PHASE-3
ELECTRICAL DETAILS

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	E900
PROJECT: -	DATE: 05/26/2022	

PANEL: LA. | LOCATION: APPARATUS YARD | FED FROM: TLA SEC
OC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 3R | MOUNTING: Surface | VOLTAGE: 208/120
MAINS(A): 400A MCB | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 400 | BUS SC RATING(A) 10000 | FAULT CURRENT(A): 6301

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	OC AMPS P	PHASE	OC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	STA. A1	APPARATUS YARD	HEATING	1500	50 2	A						2
3	""			1500	""	B						4
5	STA. A2	APPARATUS YARD	HEATING	1500	50 2	C						6
7	""			1500	""	A						8
9	STA. A3	APPARATUS YARD	HEATING	1500	50 2	B						10
11	""			1500	""	C						12
13	STA. A4	APPARATUS YARD	HEATING	1500	50 2	A						14
15	""			1500	""	B						16
17						C						18
19						A						20
21						B						22
23						C						24
25						A						26
27						B						28
29						C						30
31						A						32
33						B						34
35						C						36
37	F LA1		NONE	12000	200 3	A	200 3	12000	NONE		F LA2	38
39	""			12000	""	B	""	12000			""	40
41	""			12000	""	C	""	12000			""	42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	84.00	237.3	* A-N	28500.0	237.3	CONNECTED	84.00
TOTAL DEMAND	84.00	237.3	* B-N	28500.0	237.3	DEMAND	84.00
TOTAL DESIGN	84.00	237.3	* C-N	27000.0	224.8	DESIGN	84.00

NEW PANEL

PANEL: HA. | LOCATION: APPARATUS YARD | FED FROM: SES
OC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 3R | MOUNTING: Surface | VOLTAGE: 480/277
MAINS(A): 250A MCB | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 250 | BUS SC RATING(A) 14000 | FAULT CURRENT(A): 22903

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	OC AMPS P	PHASE	OC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	SPARE		SPARE	0	20 2	A	20 2	2586	LIGHTING	APPARATUS YARD	POLE LIGHTS	2
3	""			0	""	B	""	2586			""	4
5	SPARE		SPARE	0	20 2	C	20 1	200	GENERAL LOAD	APPARATUS YARD	LTG CTRL C1	6
7	""			0	""	A						8
9	SPARE		SPARE	0	20 2	B	20 2	0	SPARE		SPARE	10
11	""			0	""	C	""	0			""	12
13	SPARE		SPARE	0	20 2	A	20 2	0	SPARE		SPARE	14
15	""			0	""	B	""	0			""	16
17						C						18
19						A						20
21						B						22
23						C						24
25						A						26
27						B						28
29						C						30
31						A						32
33						B						34
35						C						36
37						A	175 3	28500	NONE		F TLA	38
39						B	""	28500			""	40
41						C	""	27000			""	42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	89.37	112.2	* A-N	31086.0	112.2	CONNECTED	89.37
TOTAL DEMAND	89.37	112.2	* B-N	31086.0	112.2	DEMAND	89.37
TOTAL DESIGN	90.67	114.5	* C-N	27200.0	98.1	DESIGN	90.67

NEW PANEL

SHEET LEGEND

- * BREAKER WITH LOCK-OFF ACCESSORY
- @ BREAKER WITH HANDLE LOCK ACCESSORY
- # PROVIDE HANDLE TIES FOR BREAKERS FEEDING SYSTEM FURNITURE
- \+ NEW BREAKER/NEW LOAD
- % EXISTING BREAKER/NEW LOAD

PANEL: LA1. | LOCATION: APPARATUS YARD | FED FROM: LA
OC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 3R | MOUNTING: Surface | VOLTAGE: 208/120
MAINS(A): 200A MCB | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 200 | BUS SC RATING(A) 10000 | FAULT CURRENT(A): 4142

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	OC AMPS P	PHASE	OC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT	
1	STA. B1	APPARATUS YARD	HEATING	1500	50 2	A	50 2	1500	HEATING	APPARATUS YARD	STA. B7	2	+
3	""			1500	""	B	""	1500			""	4	
5	STA. B2	APPARATUS YARD	HEATING	1500	50 2	C	50 2	1500	HEATING	APPARATUS YARD	STA. B8	6	
7	""			1500	""	A	""	1500			""	8	+
9	STA. B3	APPARATUS YARD	HEATING	1500	50 2	B	50 2	1500	HEATING	APPARATUS YARD	STA. B9	10	
11	""			1500	""	C	""	1500			""	12	+
13	STA. B4	APPARATUS YARD	HEATING	1500	50 2	A	50 2	1500	HEATING	APPARATUS YARD	STA. B10	14	
15	""			1500	""	B	""	1500			""	16	+
17	STA. B5	APPARATUS YARD	HEATING	1500	50 2	C	50 2	1500	HEATING	APPARATUS YARD	STA. B11	18	
19	""			1500	""	A	""	1500			""	20	
21	STA. B6	APPARATUS YARD	HEATING	1500	50 2	B	50 2	1500	HEATING	APPARATUS YARD	STA. B12	22	
23	""			1500	""	C	""	1500			""	24	
25						A						26	
27						B						28	
29						C						30	
31						A						32	
33						B						34	
35						C						36	
37						A						38	
39						B						40	
41						C						42	

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	36.00	99.9	* A-N	12000.0	99.9	CONNECTED	36.00
TOTAL DEMAND	36.00	99.9	* B-N	12000.0	99.9	DEMAND	36.00
TOTAL DESIGN	36.00	99.9	* C-N	12000.0	99.9	DESIGN	36.00

NEW PANEL

PANEL: KYSH. | LOCATION: TRUCK SCALE HOUSE | FED FROM: KYSH JBOX
OC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 3R | MOUNTING: Surface | VOLTAGE: 480/277
MAINS(A): 200A MCB | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 200 | BUS SC RATING(A) 14000 | FAULT CURRENT(A): 9119

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	OC AMPS P	PHASE	OC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT	
1	SPARE		SPARE	0	20 2	A	20 2	1724	LIGHTING	RECLAMATION	POLE LIGHTS	2	+
3	""			0	""	B	""	1724			""	4	
5	SPARE		SPARE	0	20 2	C	20 1	200	GENERAL LOAD	RECLAMATION	LTG CTRL C2	6	+
7	""			0	""	A	20 1	200	GENERAL LOAD	ROAD	LTG CTRL C3	8	+
9	SPARE		SPARE	0	20 2	B	20 2	647	LIGHTING	ROAD	POLE LIGHTS	10	+
11	""			0	""	C	""	647			""	12	
13	SPARE		SPARE	0	20 2	A	20 2	862	LIGHTING	RETENTION	POLE LIGHTS	14	+
15	""			0	""	B	""	862			""	16	
17						C	20 1	200	GENERAL LOAD	RETENTION	LTG CTRL C4	18	+
19						A	20 1	200	GENERAL LOAD	WH AREA	LTG CTRL C5	20	+
21						B	20 2	2586	LIGHTING	WH AREA	POLE LIGHTS	22	+
23						C	""	2586			""	24	
25						A						26	
27						B						28	
29						C						30	
31						A						32	
33						B						34	
35						C						36	
37						A						38	
39	XFMR KYTSH	PANEL KYSL	SPACE	0	70 2	B						40	
41	""			0	""	C						42	

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	12.44	21.0	* A-N	2986.0	10.8	CONNECTED	14.84
TOTAL DEMAND	12.44	21.0	* B-N	5819.5	21.0	DEMAND	14.84
TOTAL DESIGN	15.35	26.2	* C-N	3633.5	13.1	DESIGN	17.75

EXISTING PANEL

PANEL SCHEDULE INDEX

–	LA	HA
–	LA1	KYSH
–	LA2	KYSL
–	–	–
–	–	–

LOAD SUMMARY

LOAD CALCULATION WERE PERFORMED USING SKM POWER ENGINEERING SOFTWARE.

EXPLANATION OF PANEL SCHEDULE VALUES:

CONNECTED: 100% OF ALL INDIVIDUAL LOADS SHOWN ON THE SCHEDULES.

DEMAND: CONNECTED VALUES LESS RECEPTACLE DEMAND FACTOR:

–100% OF FIRST 10kVA, 50% OF REMAINDER OVER 10kVA.

DESIGN: DEMAND VALUES PLUS CODE REQUIRED LOAD FACTORS:

–LIGHTING: 125% OF ALL LOAD

–CONTINUOUS: 125% OF ALL LOAD

–GENERAL (GEN): 100% OF ALL LOAD

–HVAC: 100% OF ALL LOAD

–MOTOR: 100% OF ALL LOAD

–LRGST MOTOR: 125% OF LOAD

–HEATING (HEAT): 100% OF ALL LOAD

PANEL: LA2. | LOCATION: APPARATUS YARD | FED FROM: LA
OC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 3R | MOUNTING: Surface | VOLTAGE: 208/120
MAINS(A): 200A MCB | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 200 | BUS SC RATING(A) 10000 | FAULT CURRENT(A): 3144

CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	OC AMPS P	PHASE	OC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	STA. C1	APPARATUS YARD	HEATING	1500	50 2	A	50 2	1500	HEATING	APPARATUS YARD	STA. D3	2
3	""			1500	""	B	""	1500			""	4
5	STA. C2	APPARATUS YARD	HEATING	1500	50 2	C	50 2	1500	HEATING	APPARATUS YARD	STA. D4	6
7	""			1500	""	A	""	1500			""	8
9	STA. C3	APPARATUS YARD	HEATING	1500	50 2	B	50 2	1500	HEATING	APPARATUS YARD	STA. E1	10
11	""			1500	""	C	""	1500			""	12
13	STA. C4	APPARATUS YARD	HEATING	1500	50 2	A	50 2	1500	HEATING	APPARATUS YARD	STA. E2	14
15	""			1500	""	B	""	1500			""	16
17	STA. D1	APPARATUS YARD	HEATING	1500	50 2	C	50 2	1500	HEATING	APPARATUS YARD	STA. E3	18
19	""			1500	""	A	""	1500			""	20
21	STA. D2	APPARATUS YARD	HEATING	1500	50 2	B	50 2	1500	HEATING	APPARATUS YARD	STA. E4	22
23	""			1500	""	C	""	1500			""	24
25						A						26
27						B						28
29						C						30
31						A						32
33						B						34
35						C						36
37						A						38
39						B						40
41						C						42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	36.00	99.9	* A-N	12000.0	99.9	CONNECTED	36.00
TOTAL DEMAND	36.00	99.9	* B-N	12000.0	99.9	DEMAND	36.00
TOTAL DESIGN	36.00	99.9	* C-N	12000.0	99.9	DESIGN	36.00

NEW PANEL

PANEL: KYSL. | LOCATION: CONTROL HOUSE | FED FROM: KYTSH SEC
OC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 240/139
MAINS(A): 125/2 MCB | WIRING: Single-Phase 3-Wire
CONTINUOUS(A): 125 | BUS SC RATING(A) 10000 | FAULT CURRENT(A): 2551

	CKT	DESCRIPTION	NOTES	DEMAND CODE	VA	OC AMPS P	PHASE	OC AMPS P	VA	DEMAND CODE	NOTES	DESCRIPTION	CKT
+	1	POLE MOUNTED	RECLAMATION	RECEPTACLES	600	20 1	A						2
+	3	POLE MOUNTED	RECLAMATION	RECEPTACLES	600	20 1	B						4
+	5	POLE MOUNTED	RECLAMATION	RECEPTACLES	600	20 1	A						6
+	7	POLE MOUNTED	RECLAMATION	RECEPTACLES	600	20 1	B						8
	9						A						10
	11						B						12
	13						A						14

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	2.40	10.0	* A-N	1200.0	10.0	CONNECTED	2.40
TOTAL DEMAND	2.40	10.0	* B-N	1200.0	10.0	DEMAND	2.40
TOTAL DESIGN	2.40	10.0	* C-N	0.0	0.0	DESIGN	2.40

EXISTING PANEL

PANELBOARD "TSC-YL"

LOCATION: SWITCH YARD | **MAIN/TYPE: 100A MCB** | **BUS SIZE: 100A** | **WITHSTAND: 36,000A**
FED FROM: UTIL XFMR | **VOLTAGE: 240/120V, 1PH, 3W** | **AIC: SERIES**

NO	DESCRIPTION	BKR		A	B		BKR	DESCRIPTION	NO
1	LIGHTING/	30	C	500			30	LIGHTING/	
	PHOTOCELL			1840		C		PHOTOCELL	2
3	1000W		C		500				
		2			1840	C	2		4
5	LIGHTING/	30	C	200			20	RECEPTACLE, GFI	
	PHOTOCELL			180			1		6
7	400W		C		200		20	LIGHTING	
		2			1724	C			8
9	TIMER CONTROLLER	20		200					
		1		1724		C	2		10
11	SPACE						20	LGT CTRL C6	
					200		1		12
13	SPACE						20	LIGHTING	
				1293		C			14
15	SPACE								
					1293	C	2		16
17	SPACE						20	LGT CTRL C7	
				200			1		18
19	SPACE						20	LIGHTING	
					645	C			20
21	SPACE								
				645		C	2		22
23	SPACE						20	LGT CTRL C8	
					200		1		24
	CONNECTED VA:			**6782**	**6602**				
	25% LTG/CONTINUOUS LOADS "C":			**1551**	**1551**				
	25% LARGEST MOTOR "M":			**0**	**0**				
	CODE VA:			**8333**	**8153**			**1-PHASE VA:**	**16485**
	CODE AMPS:			**69**	**68**			**1-PHASE AVERAGE AMPS:**	**69**

100% REVIEW SET

REV. NO.	DATE	DESCRIPTION	BY

ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 21176

PRELIMINARY NOT FOR CONSTRUCTION

SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

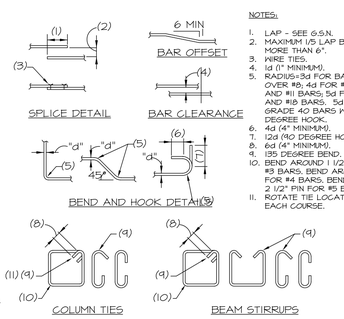
SRP TSC
ELECTRICAL SITE WORK, PHASE-3
ELECTRICAL SCHEDULES

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	**E901**
PROJECT: –	DATE: 05/26/2022	

BAR SIZE (METRIC)	CLASS B TENSION SPLICE LENGTHS						COMP. BARS	
CONC PSI	f'c=2500/3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI		f'c ≥ 3,000	
BAR LOCATION	REGULAR	TOP	REGULAR	TOP	REGULAR	TOP	STD LAP	ENCLOSED W/ SPIRAL TIES
#3 (10)	24"	31"	19"	24"	17"	22"	12"	12"
#4 (13)	32"	41"	25"	32"	22"	29"	15"	12"
#5 (16)	39"	51"	31"	40"	28"	36"	19"	14"
#6 (19)	47"	61"	37"	48"	33"	43"	23"	17"
#7 (22)	69"	89"	54"	70"	49"	63"	26"	20"
#8 (25)	78"	102"	62"	80"	55"	72"	30"	23"
#9 (29)	88"	115"	70"	91"	63"	81"	34"	25"
#10 (32)	99"	129"	79"	102"	70"	91"	38"	28"
#11 (36)	110"	143"	87"	113"	78"	101"	42"	31"

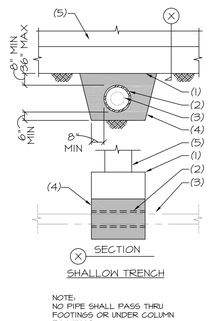
NOTES:
1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
2. LAP SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318 UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR SCHEDULES.
3. CONTACT STRUCTURAL ENGINEER IF CLEAR SPACING OF REINFORCEMENT IS LESS THAN OR EQUAL TO 2 BAR DIAMETERS (2db), OR IF CLEAR COVER IS LESS THAN THE BAR DIAMETER (db).
4. THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE.
5. FOR ADDITIONAL INFORMATION, SEE G.S.N., PLANS, SCHEDULES AND DETAILS.

01 LAP SCHEDULE FOR REINFORCING STEEL IN CONCRETE
NO SCALE



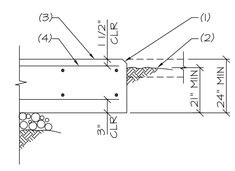
NOTES:
1. LAP - SEE G.S.N.
2. MAXIMUM 1/3 LAP BUT NOT MORE THAN 6".
3. WIRE TIES.
4. Id (1" MINIMUM).
5. RADIUS=3d FOR BARS NOT OVER #8; 4d FOR #9, #10 AND #11 BARS; 5d FOR #14 AND #18 BARS. 5d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK.
6. 4d (4" MINIMUM).
7. 12d (90 DEGREE HOOK).
8. 6d (4" MINIMUM).
9. 135 DEGREE BEND.
10. BEND AROUND 1 1/2" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND AROUND 2 1/2" PIN FOR #5 BARS.
11. ROTATE TIE LOCATION 90 DEGREES EACH COURSE.

02 TYPICAL CONCRETE REINFORCING BAR DETAILS
NO SCALE



NOTES:
1. CONCRETE FOOTING.
2. SLEEVE - PROVIDE 1/2" MINIMUM CLEARANCE AROUND PIPE OR CONDUIT.
3. PIPE OR CONDUIT.
4. CONCRETE FILL TO BE PLACED BEFORE FOOTING IS POURED - FORM SAME AS FOOTING AND FOUR FULL WIDTH OF PIPE TRENCH.
5. STEM WALL.
6. 1'-6" MAXIMUM - WHERE TRENCH EXCEEDS 1'-6", NOTIFY STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF FOOTING. BACKFILL AND RECOMPACT TRENCH PER SOILS REPORT AND SPECIFICATIONS.
7. BOTTOM OF TRENCH.

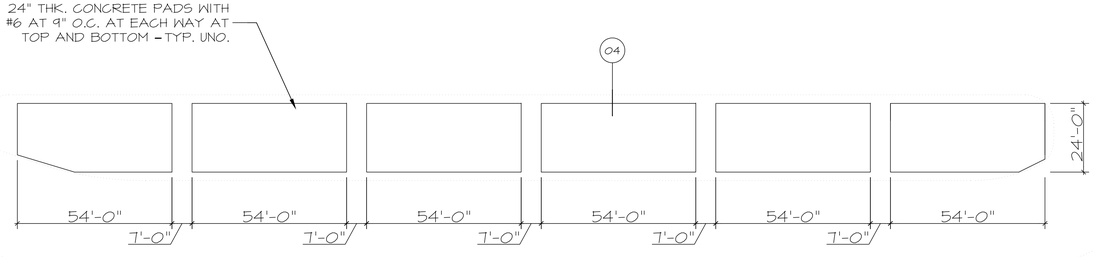
03 PIPE PASSING UNDER WALL FOOTING
NO SCALE



NOTES:
1. CHAMFER EDGES.
2. CONCRETE SLAB OR FINISHED GRADE WHERE OCCURS.
3. CONCRETE EQUIPMENT PAD.
4. #6 AT 9" O.C. EACH WAY TOP AND BOTTOM.

04 CONCRETE EQUIPMENT PAD ON GRADE
NO SCALE

NOTE: SEE CIVIL DRAWINGS FOR ADDITIONAL INFO NOT SHOWN HERE FOR SITE WORK.



CONCRETE EQUIPMENT PAD - FOUNDATION PLAN AT APPARATUS BLOCK

NORTH
SCALE: 1" = 300'

BUILDING CODE:

2018 EDITION OF THE INTERNATIONAL BUILDING CODE.

LOADS:
EQUIPMENT PAD LIVE LOAD = 430 PSF.

FOUNDATIONS: SOIL REPORT BY WESTERN TECHNOLOGIES, INC.; JOB NO. 2121JA218. SPREAD FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL 2'-0" MINIMUM BELOW ADJACENT FINISHED GRADE OR EXISTING GRADE. FINISHED GRADE IS DEFINED AS TOP OF PAD AND LOWEST ADJACENT GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. ALLOWABLE DESIGN SOIL BEARING VALUE = 1,500 PSF.

REFER TO SOILS REPORT FOR ADDITIONAL INFORMATION PRIOR TO COMMENCEMENT OF EARTHWORK. SOILS ENGINEER SHALL INSPECT FOUNDATION EXCAVATIONS PRIOR TO PLACEMENT OF CONCRETE.

CONCRETE: MINIMUM 28 DAY STRENGTH 3,000 PSI UNLESS NOTED OTHERWISE. USE CLASS A CONCRETE PER SRP SPECIFICATIONS FOR EXPOSURE CATEGORY F2 AND TYPE II CEMENT WITH W/C= 0.50.

FOUNDATIONS (DESIGN BASED ON 2,500 PSI) ———————— 4,000 PSI

GENERAL: ALL CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ACI. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED UNLESS NOTED OTHERWISE. FOR CONCRETE WITHOUT PLASTICIZER, MAXIMUM SLUMP 4 1/2" AT POINT OF PLACEMENT U.N.O. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL.

FOR REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE EMBEDMENT OF CONDUITS, PIPES, SLEEVES, ETC. OF ANY MATERIAL SHALL NOT BE PERMITTED WITHIN ANY CONCRETE STRUCTURAL ELEMENT WITHOUT THE EXPRESSED APPROVAL OF THE STRUCTURAL ENGINEER.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 25% OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT. FLY ASH SHALL BE INCLUDED IN THE CALCULATION OF W/C RATIOS SPECIFIED ABOVE. FLY ASH ADDITIVES SHALL NOT BE USED ON SLABS WITH A BURNISHED OR ACID FINISH.

TEST DATA FOR EACH CONCRETE MIX SHALL BE SUBMITTED FOR REVIEW PER CHAPTER 5 OF ACI 318. REFERENCE FIGURE R5.3 FOR SUBMITTAL REQUIREMENTS AND OPTIONS. CONCRETE MIX DESIGNS THAT ARE SUBMITTED WITHOUT THE APPROPRIATE TEST DATA CANNOT BE REVIEWED.

REINFORCING: ALL REINFORCING PER CRSI SPECIFICATIONS AND HANDBOOK. ASTM A615 (Fy = 60 KSI / GRADE 60) DEFORMED BARS FOR ALL BARS #5 AND LARGER (AND FOR ALL CONCRETE WALLS, BEAMS, SLABS AND COLUMN REINFORCING). ASTM A615 (Fy = 40 KSI / GRADE 40) DEFORMED BARS FOR ALL BARS #4 AND SMALLER. WELDED WIRE FABRIC PER ASTM A185. WIRE PER ASTM A82. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ———————— 3"
EXPOSED TO EARTH OR WEATHER
#6 OR LARGER ———————————— 2"
#5 AND SMALLER ———————————— 1 1/2"
ALL OTHER PER LATEST EDITION OF ACI 318

ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE COVERED REINFORCING IS NOT AN ACCEPTABLE CHAIR.

ALL DIMENSIONS REFERENCED IN DRAWINGS AS "CLEAR" SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING, AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN "CLEAR" DIMENSION PLUS 3/8". ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE.

FIELD BENDING OR STRAIGHTENING OF DEFORMED BARS SHALL BE LIMITED TO #5 BARS AND SMALLER AND SHALL BE FIELD BENT OR STRAIGHTENED ONLY ONCE. ANY BEND SHALL BE LIMITED TO 90 DEGREES. IF FIELD BENDING OR STRAIGHTENING OF #6 BARS OR LARGER IS REQUIRED, OR IF A SECOND BEND IS REQUIRED FOR #5 BARS AND SMALLER, HEAT SHALL BE APPLIED FOR BENDING OR STRAIGHTENING. CONTRACTOR SHALL SUBMIT PROCEDURE FOR APPLYING HEAT TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BENDING OR STRAIGHTENING BARS.

LAP SPLICES IN CONCRETE: ALL SPLICE LOCATIONS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. ONLY WHEN SPECIFICALLY NOTED ON DRAWINGS MAY CONCRETE COLUMN DOWEL EMBEDMENT BE A STANDARD COMPRESSION DOWEL WITH EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF THE ACI 318.

LAP SPLICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318. STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. ONLY WHEN SPECIFICALLY NOTED ON DRAWINGS MAY LAP SPLICES IN CONCRETE COLUMNS BE STANDARD COMPRESSION LAP SPLICES.

SHOP DRAWINGS: SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.

MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY,

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

GENERAL NOTES: THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. EXCEPT WHERE NOTED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA. ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE MOST RESTRICTIVE OR GREATER REQUIREMENTS, AS DETERMINED BY THE STRUCTURAL ENGINEER OF RECORD SHALL GOVERN. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WITH THE APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS.

SPECIAL INSPECTION - STRUCTURAL ONLY: SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION. "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE BUILDING JURISDICTION INSPECTIONS REQUIRED BY SECTION 109 OF THE INTERNATIONAL BUILDING CODE. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 FOR THE FOLLOWING:

1. CONCRETE CONSTRUCTION:
A. NO INSPECTION IS REQUIRED FOR THE PLACEMENT OF FOUNDATION CONCRETE. INSPECTION OF FOUNDATION REINFORCING IS REQUIRED PER SECTION BELOW.
B. REINFORCING STEEL: INSPECTION OF IN-PLACE REINFORCING FOR CONFORMANCE PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE FOR THE CONCRETE FOUNDATIONS AND SLABS ON GRADE.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATION.
B. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS, AND ALL DEVIATIONS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK. ALL REQUESTS FOR DEVIATIONS SHALL BE INITIATED BY THE CONTRACTOR VIA WRITTEN REQUEST FOR INFORMATION (RFI).
C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
D. CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. ACCESS SHALL BE PROVIDED BY IN-PLACE LADDERS, SCAFFOLDS, LIFTS AND/OR OTHER EQUIPMENT OPERATED BY THE CONTRACTOR'S PERSONNEL AS REQUIRED FOR SAFE OBSERVATION. INSPECTOR IS NOT RESPONSIBLE OR AUTHORIZED TO OPERATE CONTRACTOR'S EQUIPMENT.
E. UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF THEIR KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE. TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR SHALL BE CERTIFIED BY A NATIONALLY RECOGNIZED CERTIFICATION AGENCY TO PERFORM THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. IF THE SPECIAL INSPECTOR PERFORMING THE ACTUAL SPECIAL INSPECTIONS IS A STATE REGISTERED STRUCTURAL ENGINEER, NO ADDITIONAL CERTIFICATION IS REQUIRED FOR THAT PERSON.

SPECIAL INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STATE REGISTERED PROFESSIONAL ENGINEER WHO IS FAMILIAR WITH THE STRUCTURAL DESIGN OF THIS PROJECT. THE SUPERVISING STRUCTURAL ENGINEER SHALL SEAL THE SPECIAL INSPECTION CERTIFICATE.

FOR SPECIAL STRUCTURAL INSPECTIONS IN THE PHOENIX AREA, CONTACT DESERT FOX, LLC. AT 480-205-2094 OR E-MAIL: YOURPROBLEMSOLVER@DFOXONLINE.COM PRIOR TO CONSTRUCTION.

DESERT FOX, LLC.
consulting structural engineers
964 E. SARATOGA ST.
GILBERT, ARIZONA 85296
T: (480) 205-2094
F: (480) 633-4326
DESERT FOX, LLC

SRP - TEMPE SERVICE CENTER
110 W. ELLIOT RD.
TEMPE, AZ 85283

JOB NO: 22-127
PROJECT MGR: RRD
DRAWN BY: CGD
CHECKED BY: RRD

NO.	REVISION	DATE

SHEET TITLE:
CONCRETE PAD- STRUCTURAL PLAN, NOTES AND DETAILS

Registered Professional Engineer (Structural)
CERTIFICATE NO.
40288
ROMMEL R. DECENA
Date Signed 05-19-22
ARIZONA, U.S.A.
EXPIRES 12.31.24

S1.0

ISSUE DATE: 05/19/2022