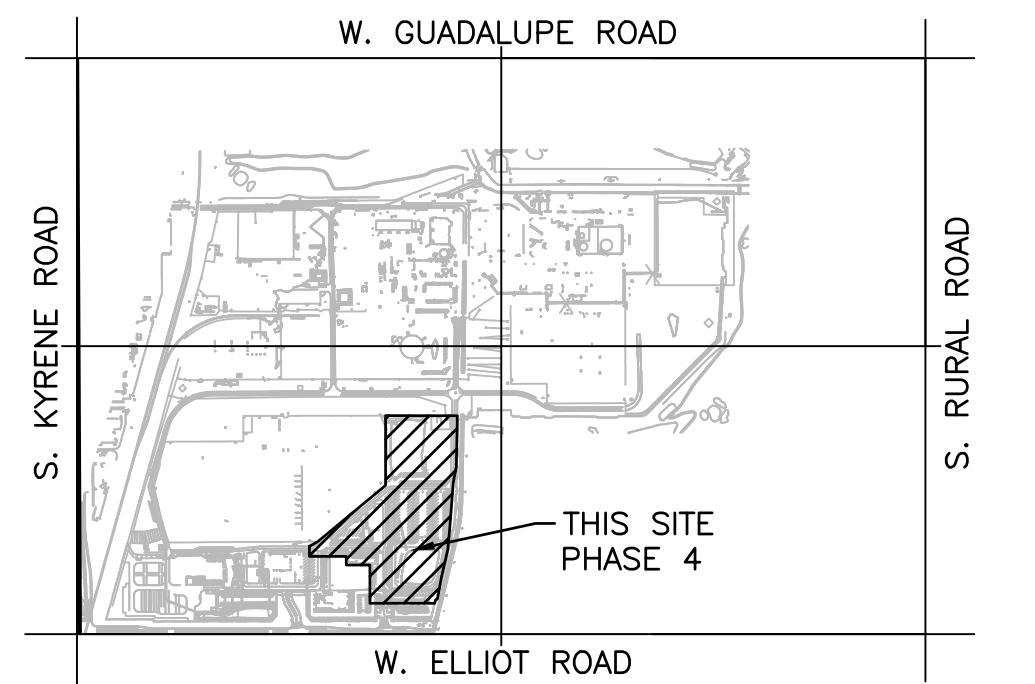


SITE PLAN/HORIZONTAL CONTROL PLAN

SRP TEMPE SERVICE CENTER-PHASE 4

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

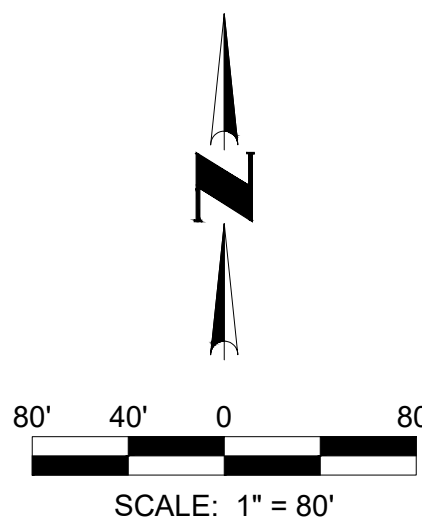
SHEET	DESCRIPTION
C101	SITE PLAN/HORIZONTAL CONTROL SHEET
C201	DEMOLITION SHEET
C303-C305	GRADING & DRAINAGE SHEETS
C402-C404	STRIPING PLANS
C503	UTILITY PLAN
E000	ELECTRICAL LEGENDS & NOTES
E101	ELECTRICAL DEMOLITION PLAN
E201-E202	ELECTRICAL PHOTOMETRIC SITE PLANS
E301	ELECTRICAL POWER PLAN
E401	ELECTRICAL ENLARGED POWER PLAN
E600	ELECTRICAL ONE-LINE DIAGRAM
E900-E901	ELECTRICAL DETAILS
S1.0	STRUCTURAL NOTES, SECTION AND DETAILS
S2.0-S7.0	STRUCTURAL FRAMING PLANS

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



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SRP SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH4
GRADING & DRAINAGE PLAN
CIVIL
HORIZONTAL CONTROL PLAN

SCALE: As indicated DATE: 07/07/2022	DESIGNED BY: MB CHECKED BY: NM	SHEET# C101
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SDB CONTRACTING SERVICES
1001 S. EDWARD DRIVE, TEMPE AZ
CONTACT: TIM RAYBURN
EMAIL: TIM.RAYBURN@SDB.COM
PHONE: 480-317-5712

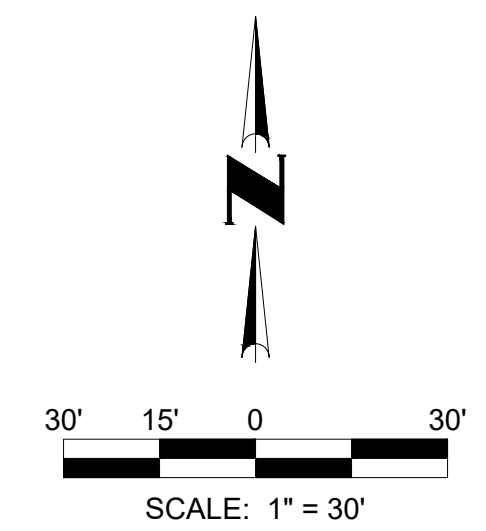
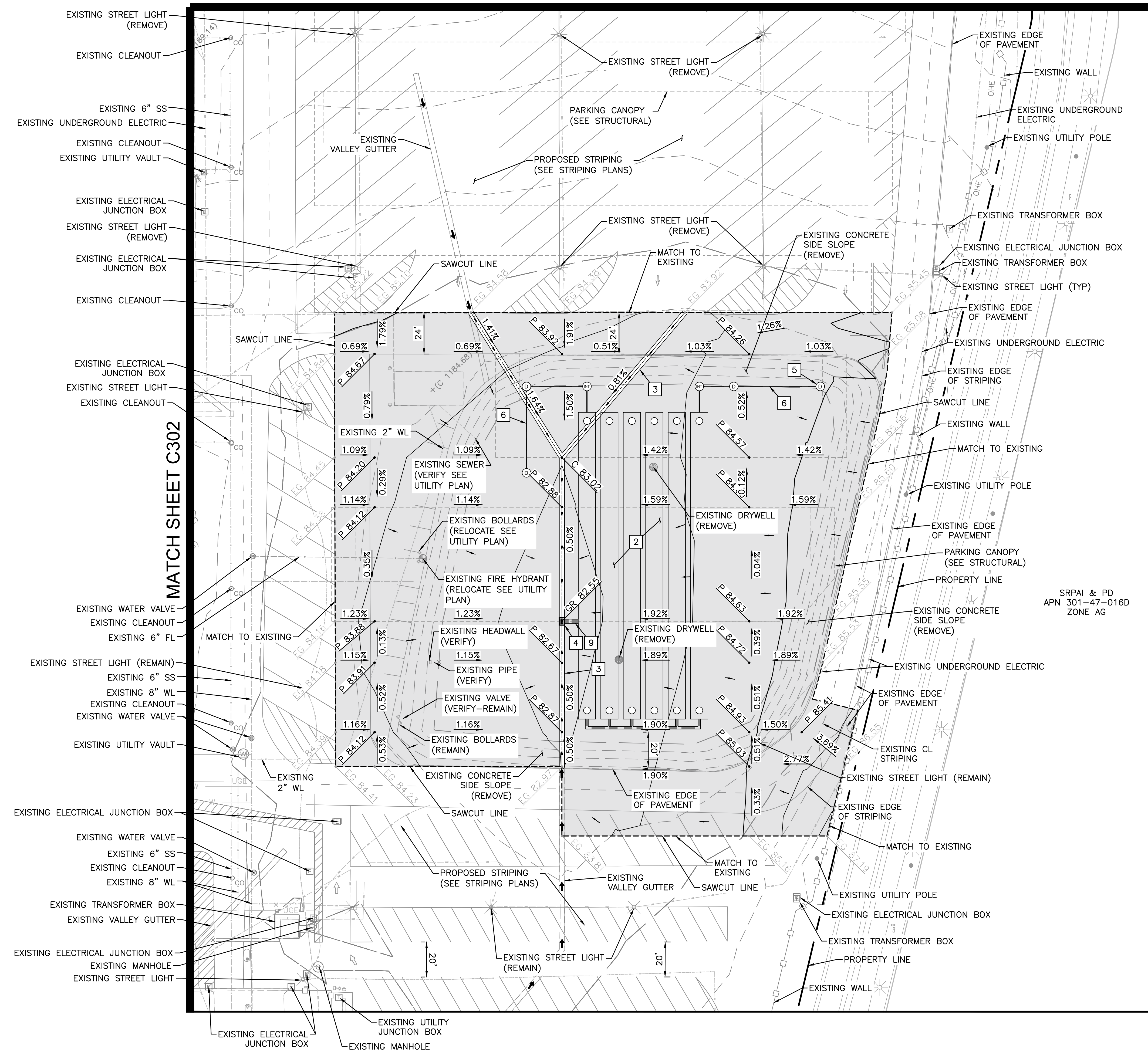
1. SAWCUT AND REMOVE EXISTING PAVEMENT.
2. REMOVE EXISTING VALLEY GUTTER.
3. REMOVE EXISTING HEADWALL. DO NOT REMOVE HEADWALL UNTIL NEW BASIN AND PIPE IS INSTALLED.
4. OBLITERATE EXISTING PARKING STRIPING.
5. OBLITERATE EXISTING PAVEMENT MARKINGS.
6. ABANDON EXISTING FL.
7. REMOVE EXISTING CONCRETE OPENING/SPILLWAY.
8. REMOVE EXISTING CONCRETE PAD.
9. REMOVE EXISTING FENCE.
10. REMOVE EXISTING RIP-RAP.
11. REMOVE CONCRETE STRUCTURE.
12. REMOVE EXISTING POLE.
13. REMOVE AND SALVAGE EXISTING SIGN.
14. RELOCATE EXISTING FIRE HYDRANT.
15. RELOCATE EXISTING BOLLARDS.
16. PROTECT EXISTING STREETLIGHT. SEE ELECTRICAL PLANS.
17. PROTECT EXISTING ELECTRICAL JUNCTION BOX. SEE ELECTRICAL PLANS.
18. PROTECT EXISTING TELEPHONE JUNCTION BOX.
19. PROTECT EXISTING FENCE.
20. PROTECT EXISTING FIBER OPTICS CABLE.
21. PROTECT EXISTING TRANSMISSION TOWER
22. PROTECT EXISTING BOLLARDS.
23. PROTECT EXISTING POWER POLE. SEE ELECTRICAL PLANS.
24. PROTECT EXISTING ELECTRICAL VAULT. SEE ELECTRICAL PLANS.
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. NOT USING.
34. REMOVE EXISTING CONCRETE SIDE SLOPE.
35. PROTECT EXISTING FIRE HYDRANT.
36. NOT USING.
37. PROTECT EXISTING STORM DRAIN.
38. PROTECT EXISTING UTILITY VALVE.
39. REMOVE EXISTING STREET LIGHT.
40. DEMO/RELOCATION EXISTING ICE HOUSE.
41. REMOVE EXISTING DRYWELL.



MATCH SHEET C304

- PAVING CONSTRUCTION NOTES
1. INSTALL 12" LIME TREATED AB BASE WITH 3/8" OR 1/2" CHIP SEAL PER SRP SECTION.
 2. INSTALL ASPHALT PAVEMENT.
 3. INSTALL VALLEY GUTTER.
 4. INSTALL CATCH BASIN.
 5. INSTALL DRYWELL.
 6. INSTALL STORM DRAIN EQUILIZER.
 7. INSTALL HEADWALL.
 8. INSTALL 48" STORM DRAIN MANHOLE.
 9. INSTALL 30" RCP.

- GRADING CONSTRUCTION NOTES
1. EARTHWORK PER SRP SECTION 312000-EARTH MOVING



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SRP TEMPE SERVICE CENTER PH4

GRADING & DRAINAGE PLAN

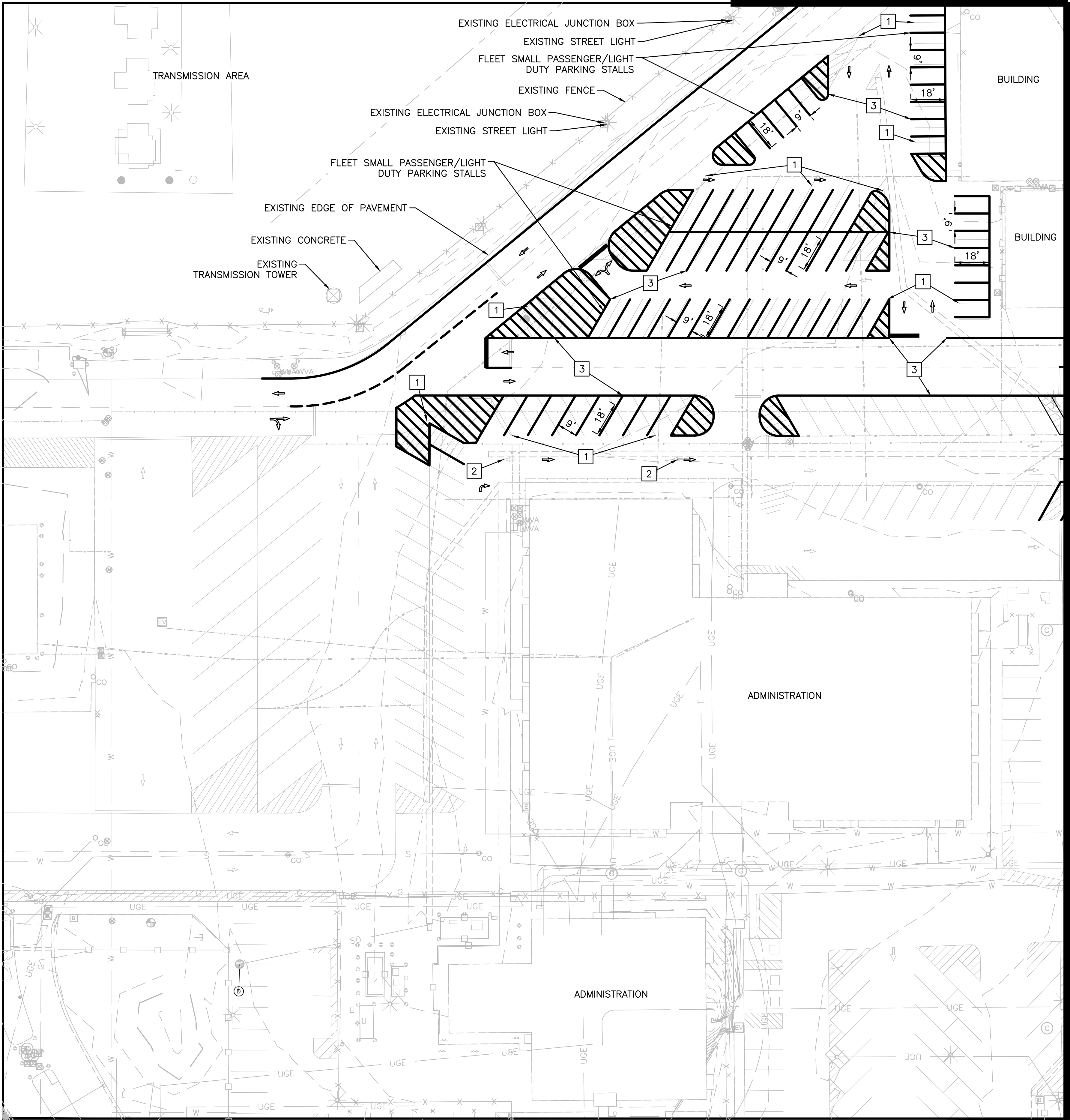
CIVIL

GRADING & DRAINAGE PLANS

SCALE: As indicated DATE: 07/07/2022	DESIGNED BY: MB CHECKED BY: NM	SHEET# C303
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PRELIMINARY

MATCH SHEET C304

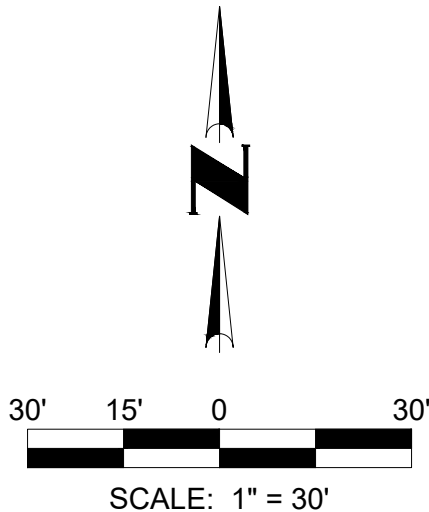


STRIPING CONSTRUCTION NOTES

1. OBLITERATE EXISTING PARKING STRIPING.
2. OBLITERATE EXISTING PAVEMENT MARKINGS.
3. PROPOSED STRIPING.
4. PROPOSED MARKINGS.

GRADING CONSTRUCTION NOTES

1. EARTHWORK PER SRP SECTION 312000-EARTH MOVING



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 CELEBRATING 60 YEARS 4550 NORTH 12TH STREET PHOENIX, ARIZONA 85014 TELEPHONE: 602.264.6831 WWW.CVLCL.COM		 PRELIMINARY
 SALT RIVER PROJECT FACILITIES SERVICES PHOENIX, ARIZONA		
SRP TEMPE SERVICE CENTER PH4 GRADING & DRAINAGE PLAN CIVIL STRIPING PLANS		
SCALE: As indicated DATE: 07/07/2022	DESIGNED BY: MB CHECKED BY: NM	SHEET# C402

STRIPING CONSTRUCTION NOTES

- ## ○ GRADING CONSTRUCTION NOTES

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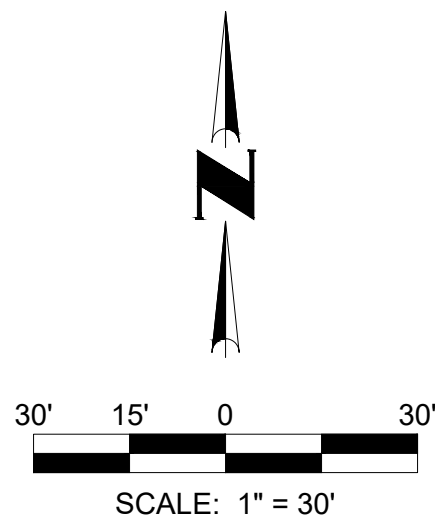


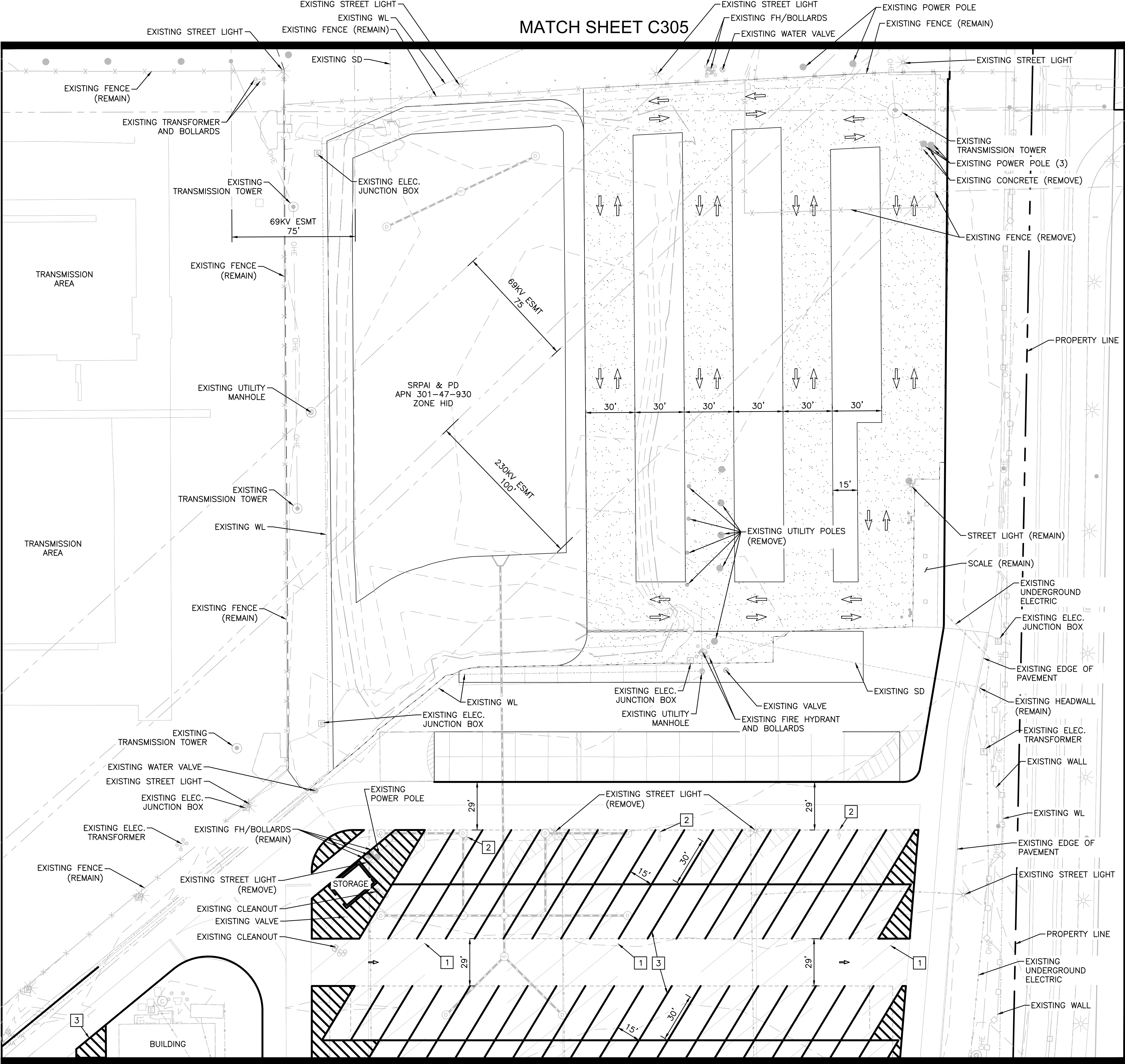
CVL
CONSULTANTS
CELEBRATING 60 YEARS
50 NORTH 12TH STREET
PHOENIX, ARIZONA 85004
TELEPHONE: 602.264.6000
WWW.CVLCI.COM


SALT RIVER PROJECT
 FACILITIES SERVICES PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH4
GRADING & DRAINAGE PLAN
CIVIL
STRIPING PLANS

SCALE: As indicated	DESIGNED BY: MB	C403
DATE: 07/07/2022	CHECKED BY: NM	





STRIPING CONSTRUCTION NOTES

1. OBLITERATE EXISTING PARKING STRIPING.
2. OBLITERATE EXISTING PAVEMENT MARKINGS.
3. PROPOSED STRIPING.
4. PROPOSED MARKINGS.

GRADING CONSTRUCTION NOTES

1. EARTHWORK PER SRP SECTION 312000-EARTH MOVING

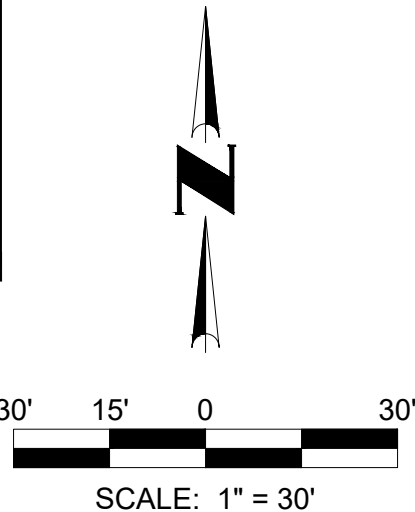


SRP SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TEMPE SERVICE CENTER PH4
GRADING & DRAINAGE PLAN
CIVIL
STRIPING PLANS

SCALE: As indicated DATE: 07/07/2022	DESIGNED BY: MB CHECKED BY: NM	SHEET# C404
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MATCH SHEET C304

- WATER CONSTRUCTION NOTES**
1. INSTALL FIRE HYDRANT ON EXISTING WATER LINE.
 2. REMOVE EXISTING 6" FIRE LINE BETWEEN PROPOSED FIRE HYDRANT AND EXISTING FIRE HYDRANT.
 3. INSTALL 2" PVC SCHEDULE 40 WATER PIPE.
 4. INSTALL 6" SEWER VCP PIPE.
 5. INSTALL 5' DIAMETER SANITARY SEWER MANHOLE.

- GRADING CONSTRUCTION NOTES**
1. EARTHWORK PER SRP SECTION 312000-EARTH MOVING

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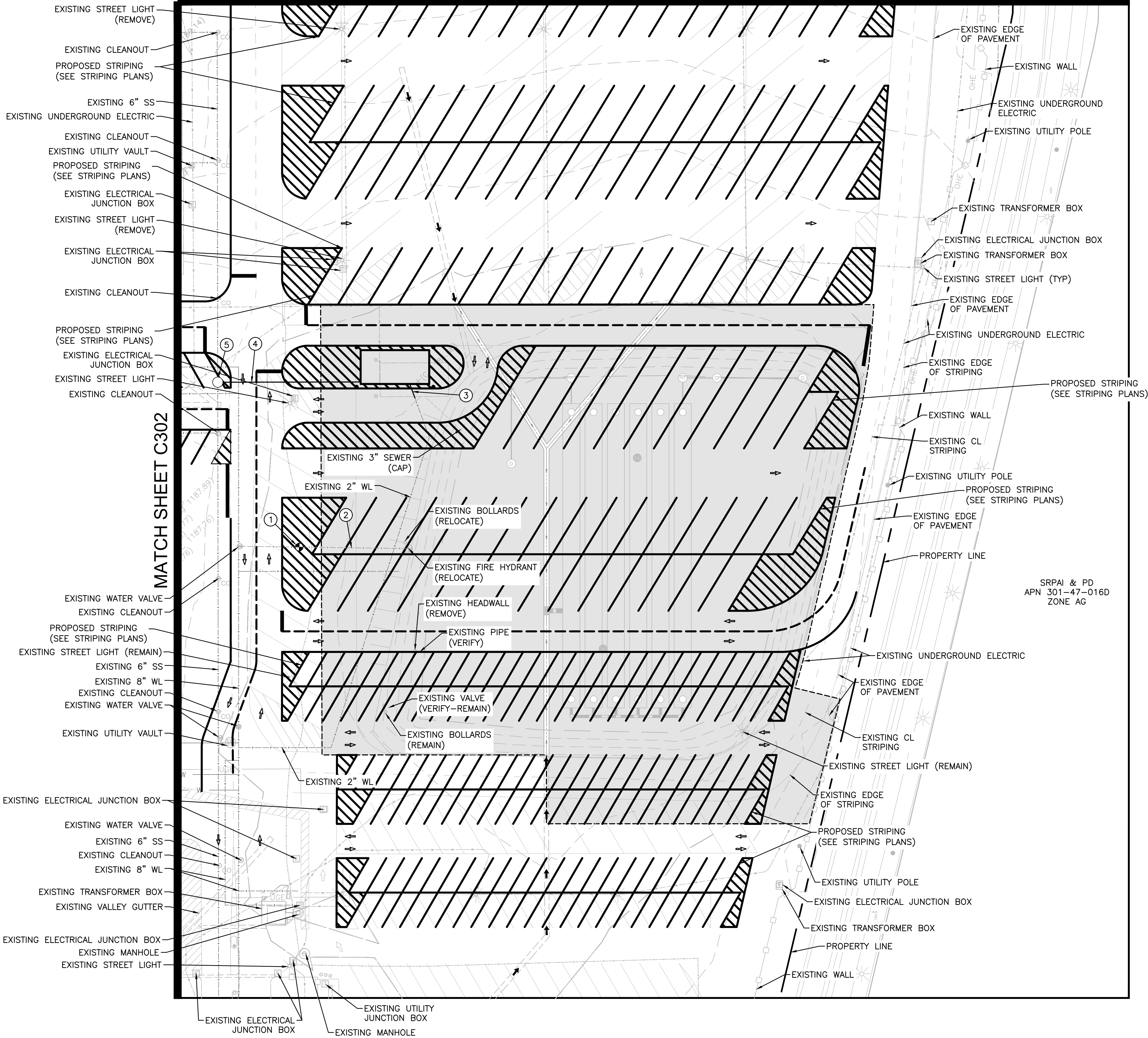
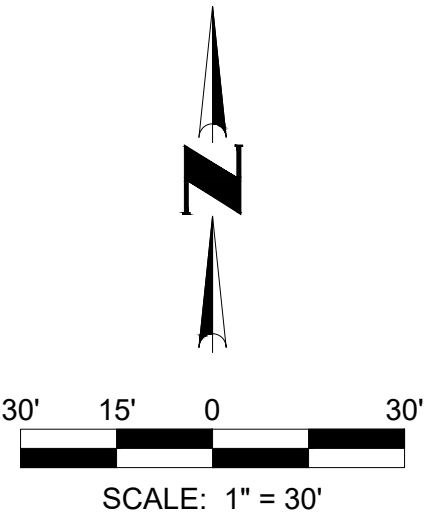
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663
07/07/22
ARIZONA U.S.A.

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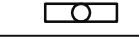
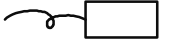
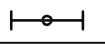

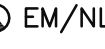


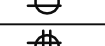



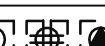

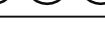
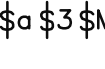
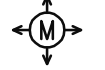


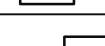

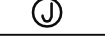


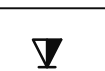


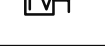



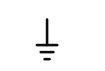

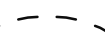
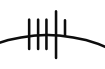
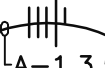

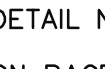

SRP TEMPE SERVICE CENTER PH4
GRADING & DRAINAGE PLAN
CIVIL
UTILITY PLANS

SCALE: As indicated DATE: 07/07/2022	DESIGNED BY: MB CHECKED BY: NM	SHEET# C503
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ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	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
	FIXTURE, CEILING OUTLET, EMERGENCY LIGHT (EM) OR NIGHT LIGHT (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
	SWITCH, +48" A.F.F. UNLESS NOTED OTHERWISE. LOWERCASE SUBSCRIPT DENOTES CIRCUITTING (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 MS – MOTION SENSOR F – SINGLE POLE SWITCH WITH FUSE HOLDER S – MOTOR SPEED
	MOTION SENSOR, CEILING (360 DEGREES)
	MOTOR, (# DENOTES HORSE POWER)
	SAFETY DISCONNECT SWITCH; FUSIBLE (30/3 = 30A 3 POLE)
	SAFETY DISCONNECT SWITCH; NON–FUSIBLE
	PANELBOARD
	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
	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.
	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
	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
SWG	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

- THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL LOCAL, STATE AND FEDERAL CODES.
- 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.
- WHERE SIZE IS NOT INDICATED ON THE PLAN, CONDUCTORS SHALL BE MINIMUM #12 AWG WITH #12 AWG GROUND WIRE IN 3/4" CONDUIT.
- ALL CONDUITS SHALL CONTAIN A CODE SIZE EQUIPMENT GROUND CONDUCTOR.
- ALL CONDUCTORS SHALL BE COPPER THHN/THWN OR XHHW RATED FOR 90 DEGREES CELSIUS.
- CONTRACTOR TO PERMANENTLY MARK ON JUNCTION BOX COVER, RECEPTACLE COVER PLATE, AND LIGHTING CONTROL DEVICE COVER PLATE WITH THE PANEL NAME AND CIRCUIT NUMBER.
- ALL EXTERIOR DEVICES/LIGHTING FIXTURES SHALL BE WEATHERPROOF.
- 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.
- 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.
- EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS IN THE PANELBOARD.
- 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.
- ALL EXPOSED CONDUIT SHALL BE RMC OR IMC.
- ALL FLEXIBLE CONNECTION SHALL BE LFMC.
- CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND FAMILIARIZE WITH THE PROJECT PRIOR TO THE BID.
- ALL EXISTING SYSTEMS ARE TO REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SYSTEM SHUTDOWNS WITH OWNER.
- PROVIDE ALL DEMOLITION WORK INCLUDING REMOVAL AND DISPOSAL OF ALL MATERIALS. COORDINATE WITH OWNER FOR SALVAGE INSTRUCTIONS.
- ELECTRICAL CONTRACTOR SHALL POSITIVELY IDENTIFY ALL CIRCUITS FEEDING ALL ELECTRICAL DEVICES AND LIGHTING BEFORE DE–ENERGIZING THE CIRCUITS.
- REMOVE EXISTING ELECTRICAL DEVICES SHOWN TO BE REMOVED. REMOVE WIRE AND CONDUIT BACK TO SOURCE. PROVIDE CONTINUATION OF CIRCUIT WHERE REQUIRED.
- DEVICE LOCATION SHOWN ON THE PLANS ARE APPROXIMATE. VERIFY EXACT LOCATIONS IN FIELD.
- DISCONNECT AND REMOVE ALL ABANDONED ELECTRICAL EQUIPMENT SUCH AS CONDUITS, WIRING, SUPPORTS, CLAMPS, STRAPS, BOXES, ETC.

REV. NO.	DATE	DESCRIPTION	BY

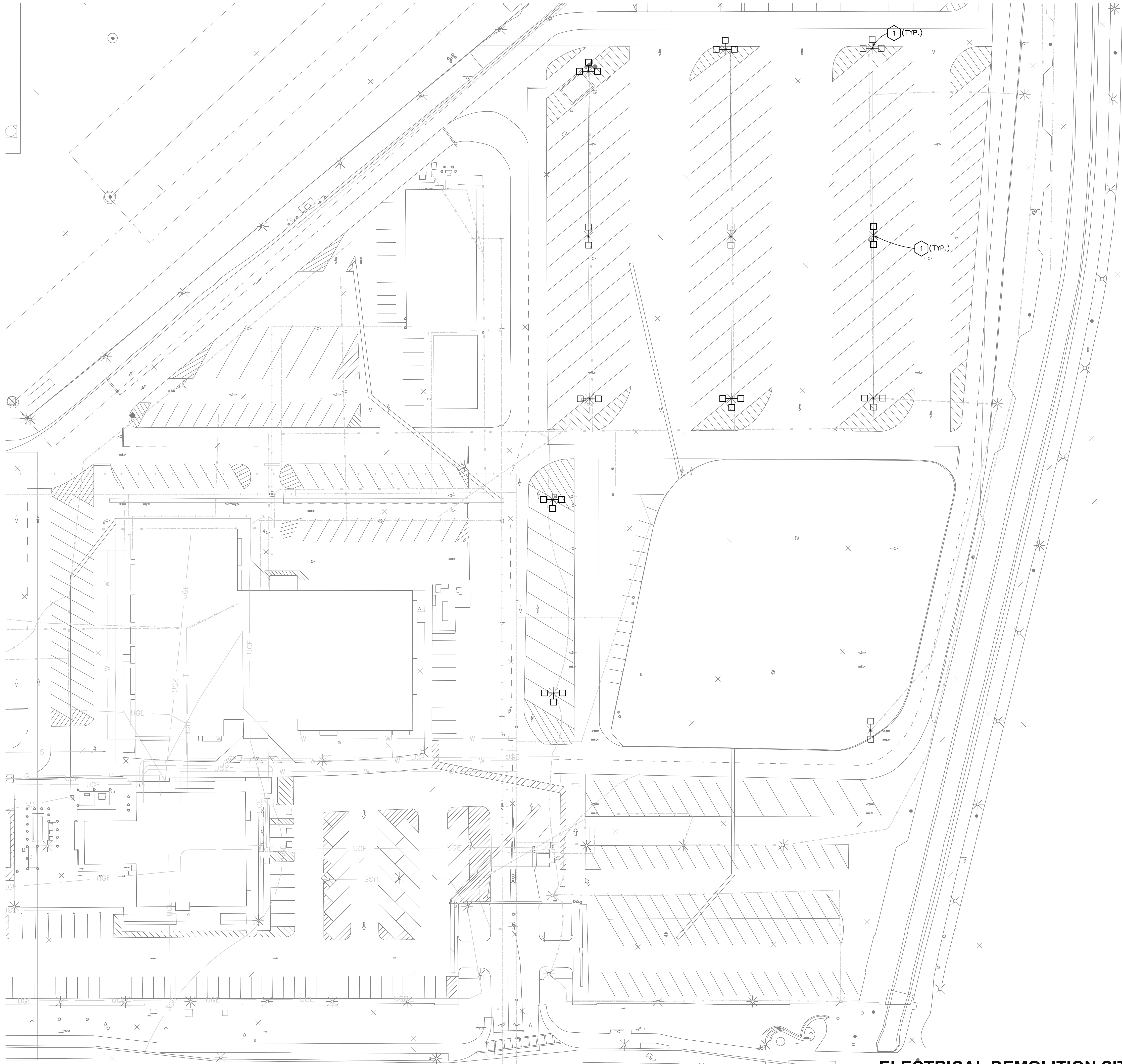


SRP TSC ELECTRICAL SITE WORK, PHASE-4 ELECTRICAL LEGENDS & NOTES

SCALE: AS NOTED	DRAWN BY:AM	SHEET #
FILENAME:	DESIGNED BY:SW	E000
PROJECT: –	DATE: 07/07/2022	

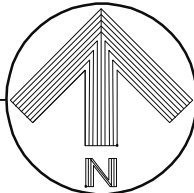
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ELECTRICAL DEMOLITION SITE PLAN

SCALE: 1"=40'-0"



DEMOLITION KEY NOTES

- EXISTING POLE MOUNTED LIGHT FIXTURE, POLE AND CONCRETE POLE BASE TO BE REMOVED. PRESERVE 480V LIGHTING CIRCUIT FOR NEW WORK AND PROVIDE CONTINUATION OF CIRCUITS AS REQUIRED.

GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL VERIFY ALL CIRCUITS FEEDING EXISTING SITE LIGHTING.

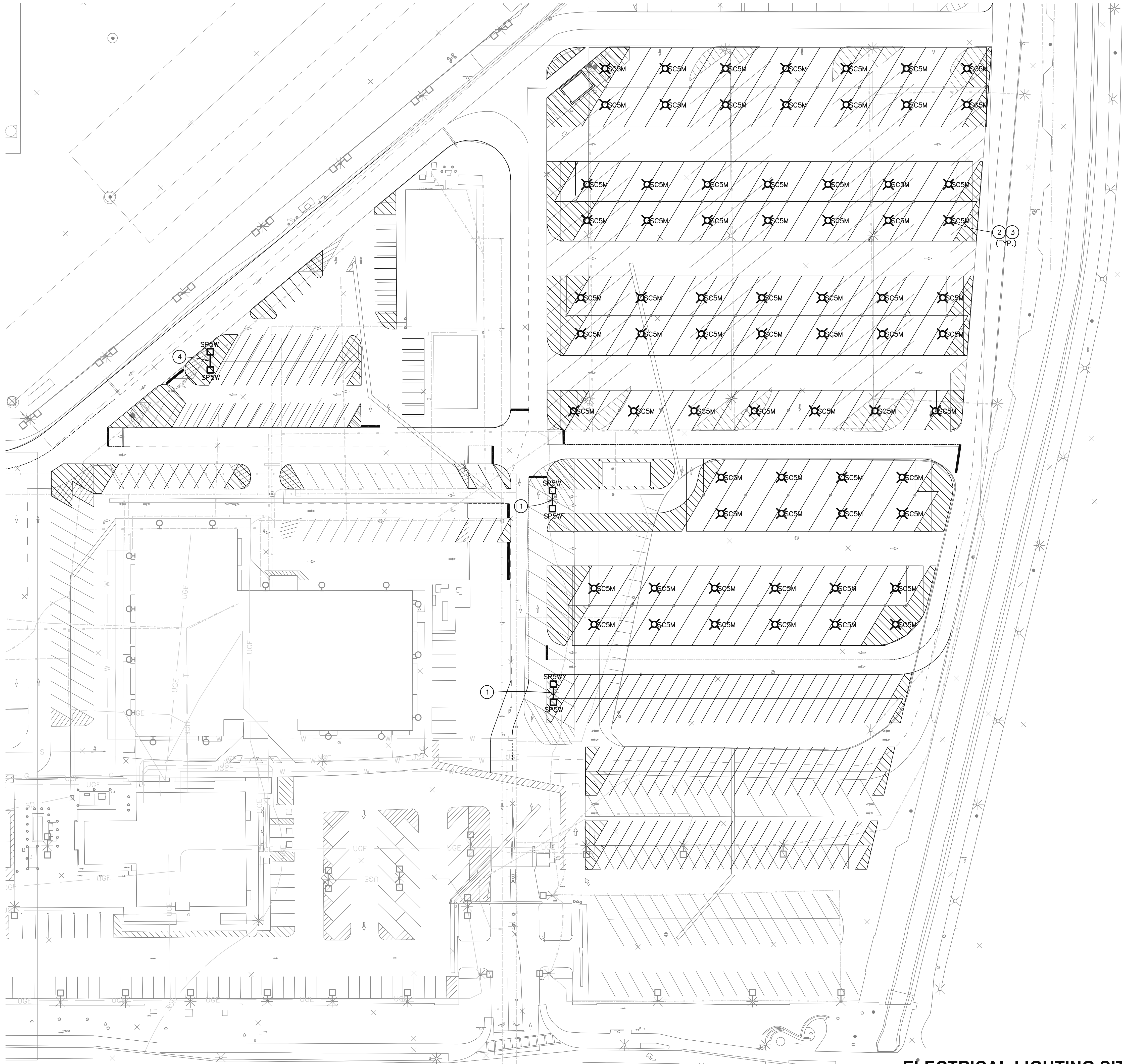
SHEET LEGEND

- INDICATES EXISTING TO REMAIN
- INDICATES EXISTING TO BE REMOVED
- INDICATES NEW/REPLACED
- INDICATES FUTURE

REV. NO.	DATE	DESCRIPTION	BY
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<div><p>SALT RIVER PROJECT FACILITIES SERVICES PHOENIX, ARIZONA</p></div>			
<div><p>SRP TSC ELECTRICAL SITE WORK, PHASE-4 ELECTRICAL DEMOLITION SITE PLAN</p></div>			
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KEY NOTES

1. INSTALL NEW LIGHT FIXTURE ON EXISTING POLE. COORDINATE BOLT PATTERN BETWEEN EXISTING POLE AND NEW FIXTURE ARM. REPLACE EXISTING FUSES IN POLE HAND HOLE WITH #A FOR TYPE SP5W FIXTURES.
2. SURFACE MOUNT NEW CANOPY FIXTURES TO CANOPY STRUCTURE.
3. RE-USE EXISTING 480V POLE LIGHTING CIRCUIT FROM NEAREST POLE FIXTURE. USE #10 CONDUCTORS IN 1" CONDUIT
4. EXTEND EXISTING 480V POLE LIGHTING CIRCUIT FROM NEAREST POLE FIXTURE. USE #10 CONDUCTORS IN 1" CONDUIT.

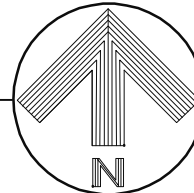
SHEET LEGEND

- INDICATES EXISTING TO REMAIN
- ////// INDICATES EXISTING TO BE REMOVED
- INDICATES NEW/REPLACED
- INDICATES FUTURE

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FILENAME:		E201	
PROJECT: —		DRAWN BY:AM	
		DESIGNED BY:SW	
		DATE: 07/07/2022	

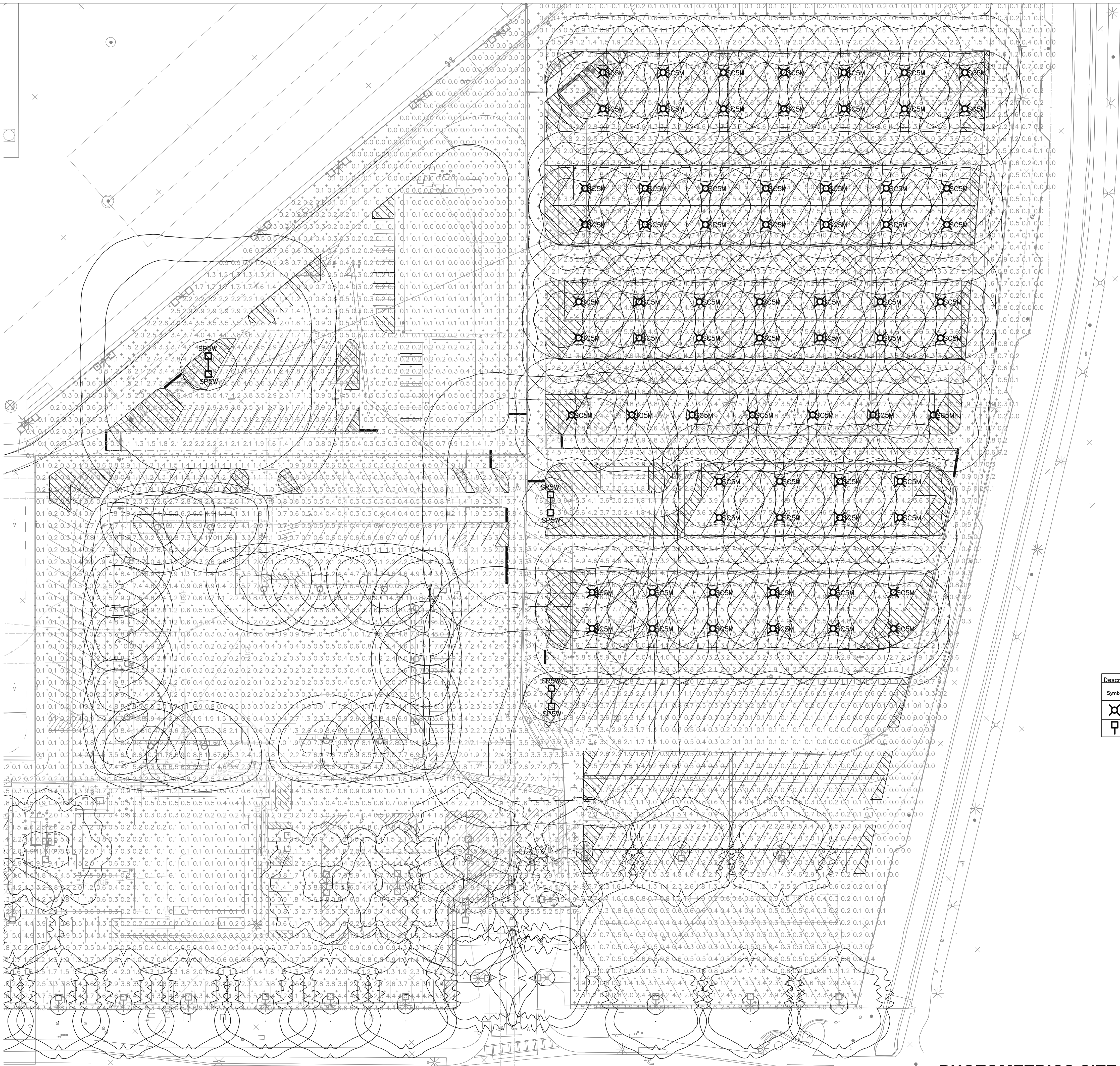
ELECTRICAL LIGHTING SITE PLAN

SCALE: 1"=40'-0"



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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CANOPY AREA	+	2.8 fc	7.7 fc	0.0 fc	N/A	N/A
COMM BLDG AREA	+	2.7 fc	15.3 fc	0.1 fc	153.0:1	27.0:1
PARKING	+	1.0 fc	7.9 fc	0.0 fc	N/A	N/A

Description							
Symbol	Label	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
⊗	SC5M	Lithonia Lighting	DSXSC LED 30C 1000 40K TSM MVOLT	DSX SURFACE CANOPY FIXTURE WITH 3 LIGHT ENGINES, 1000mA DRIVER, 4000K LEDS, TSM OPTIC	1	11565	0.9
⊞	SP5W	Lithonia Lighting	DSX2 LED PB 40K TSM DSX2 LED PB 40K TSM MVOLT		1	50729	0.9

REV. NO.

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DESCRIPTION

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SALT RIVER PROJECT
FACILITIES SERVICES PHOENIX, ARIZONA

SRP TSC

ELECTRICAL SITE WORK, PHASE-4

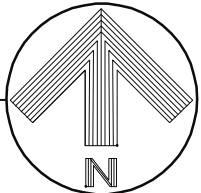
PHOTOMETRIC

SITE PLAN

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PROJECT: —	DATE: 07/07/2022	

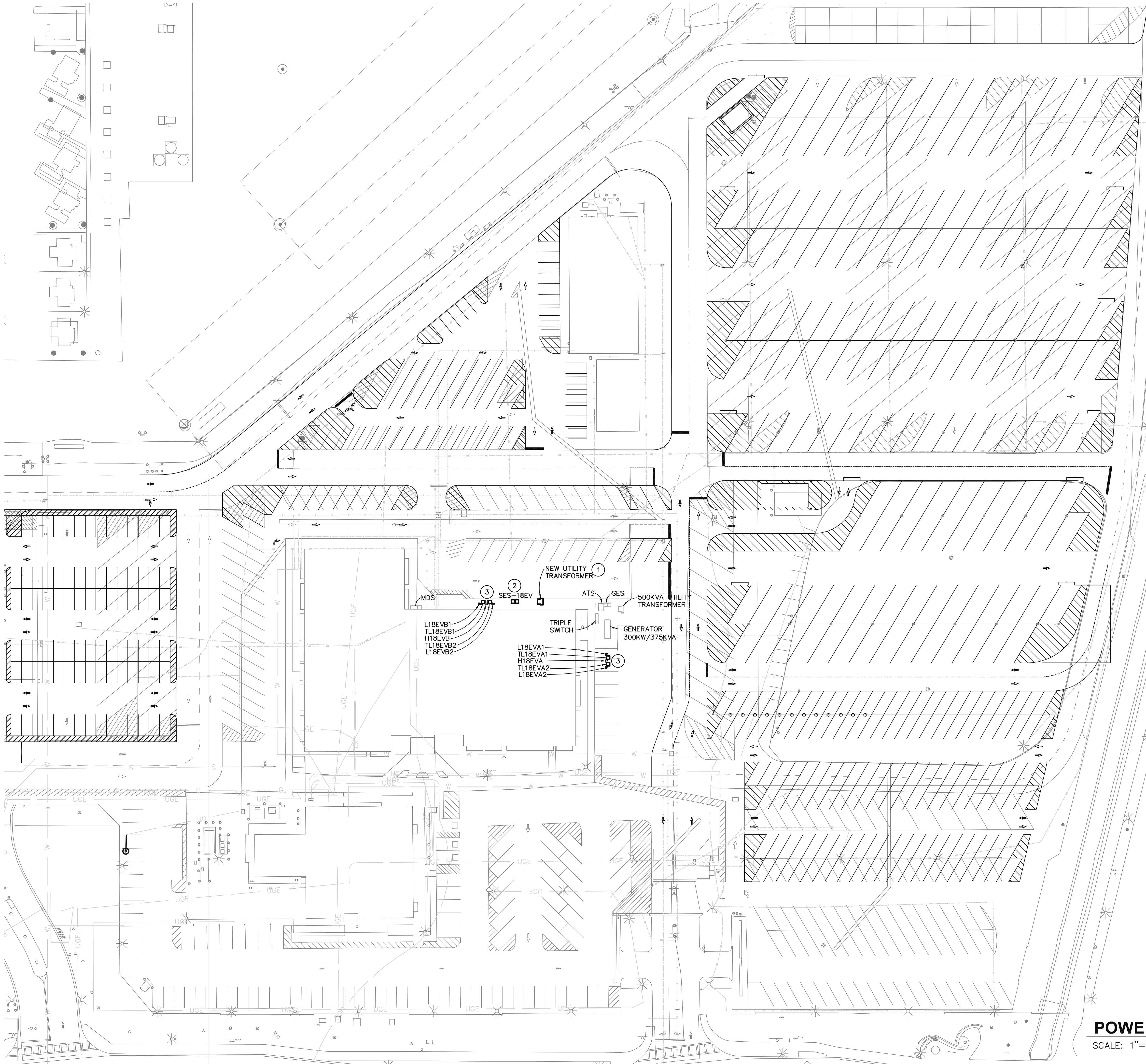
PHOTOMETRICS SITE PLAN

SCALE: 1"=40'-0"



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POWER PLAN
SCALE: 1"=40'-0"

KEY NOTES

1. PROVIDE CONCRETE PAD AS REQUIRED BY UTILITY COMPANY FOR UTILITY TRANSFORMER. COORDINATE WITH SRP ELECTRIC SERVICE SPECIFICATIONS FOR CLEARANCES. PROVIDE UNDERGROUND PRIMARY AND SECONDARY CONDUITS.
2. NEW SERVICE ENTRANCE SECTION. PROVIDE 4" TALL HOUSEKEEPING PAD WITH A 4' APRON IN FRONT OF SES AND BOLLARDS FOR PROTECTION.
3. PROVIDE NEW ELECTRICAL PANELS/TRANSFORMER. MOUNT ON UNISTRUT STAND ON CONCRETE PAD. LOCATION TO BE DETERMINED.

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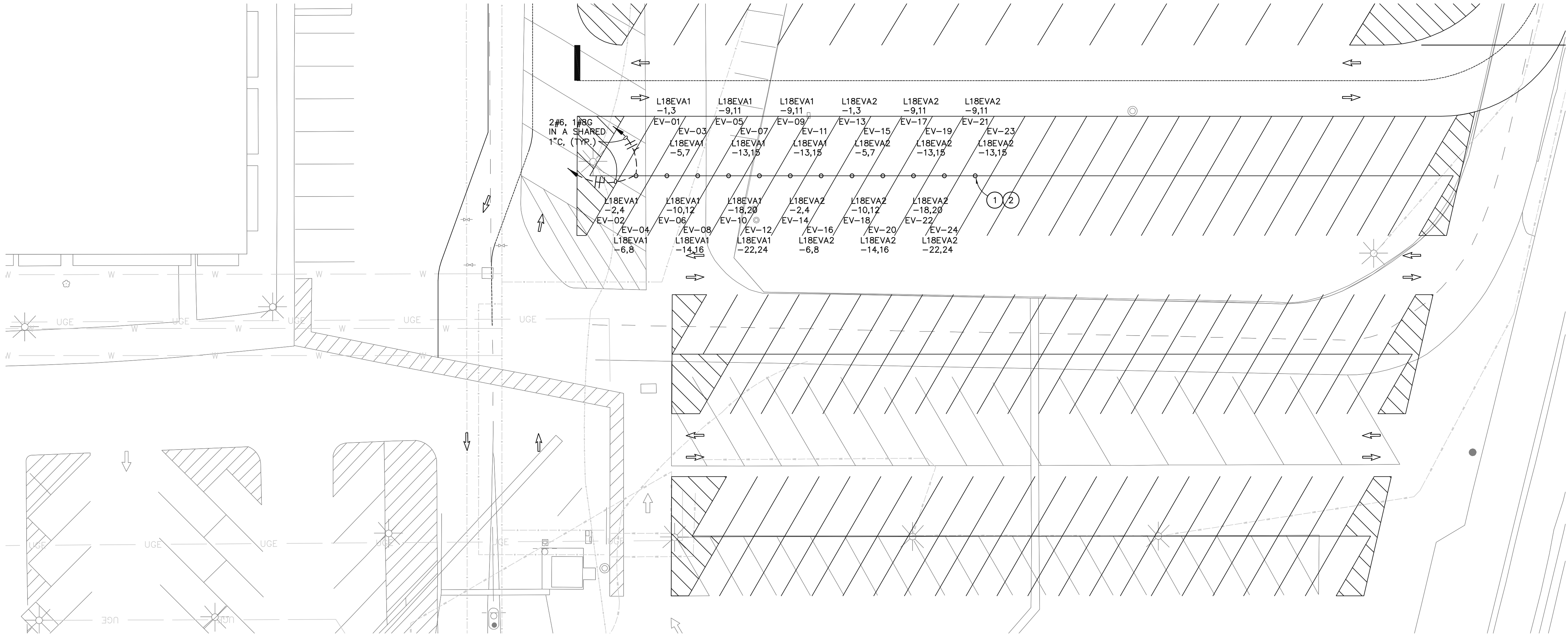
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SRP TSC
ELECTRICAL SITE WORK, PHASE-4
POWER PLAN

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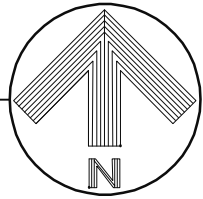
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ENLARGED POWER PLAN

SCALE: 1"=20'-0"



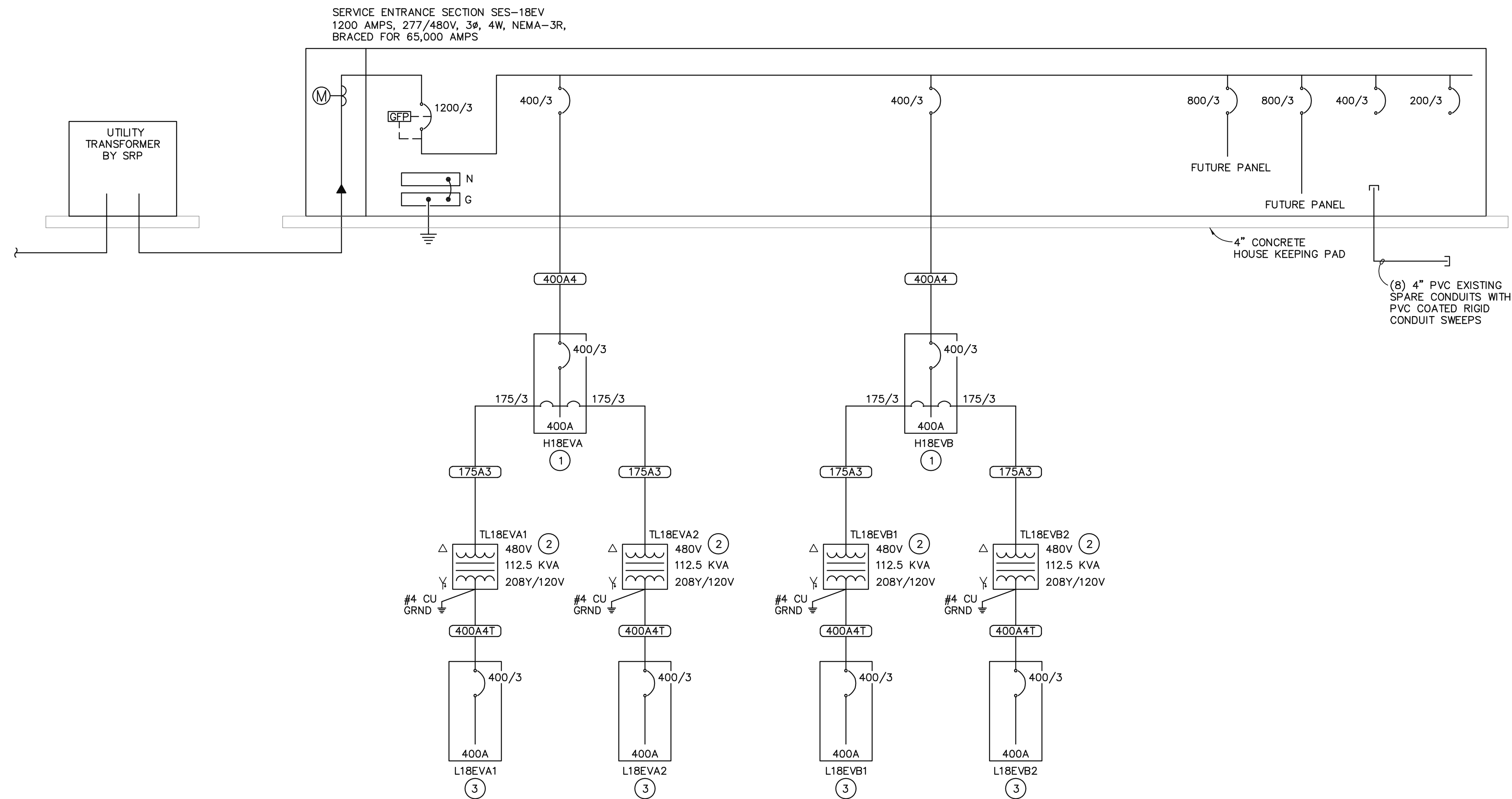
KEY NOTES

1. PROVIDE STUB-UP FOR CHARGING STATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH SRP PROJECT MANAGER PRIOR TO ROUGH-IN.
2. PROVIDE CONCRETE FOUNDATION FOR NEW CAR CHARGER

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SRP TSC ELECTRICAL SITE WORK, PHASE-4 ENLARGED POWER PLAN			
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KEY NOTES

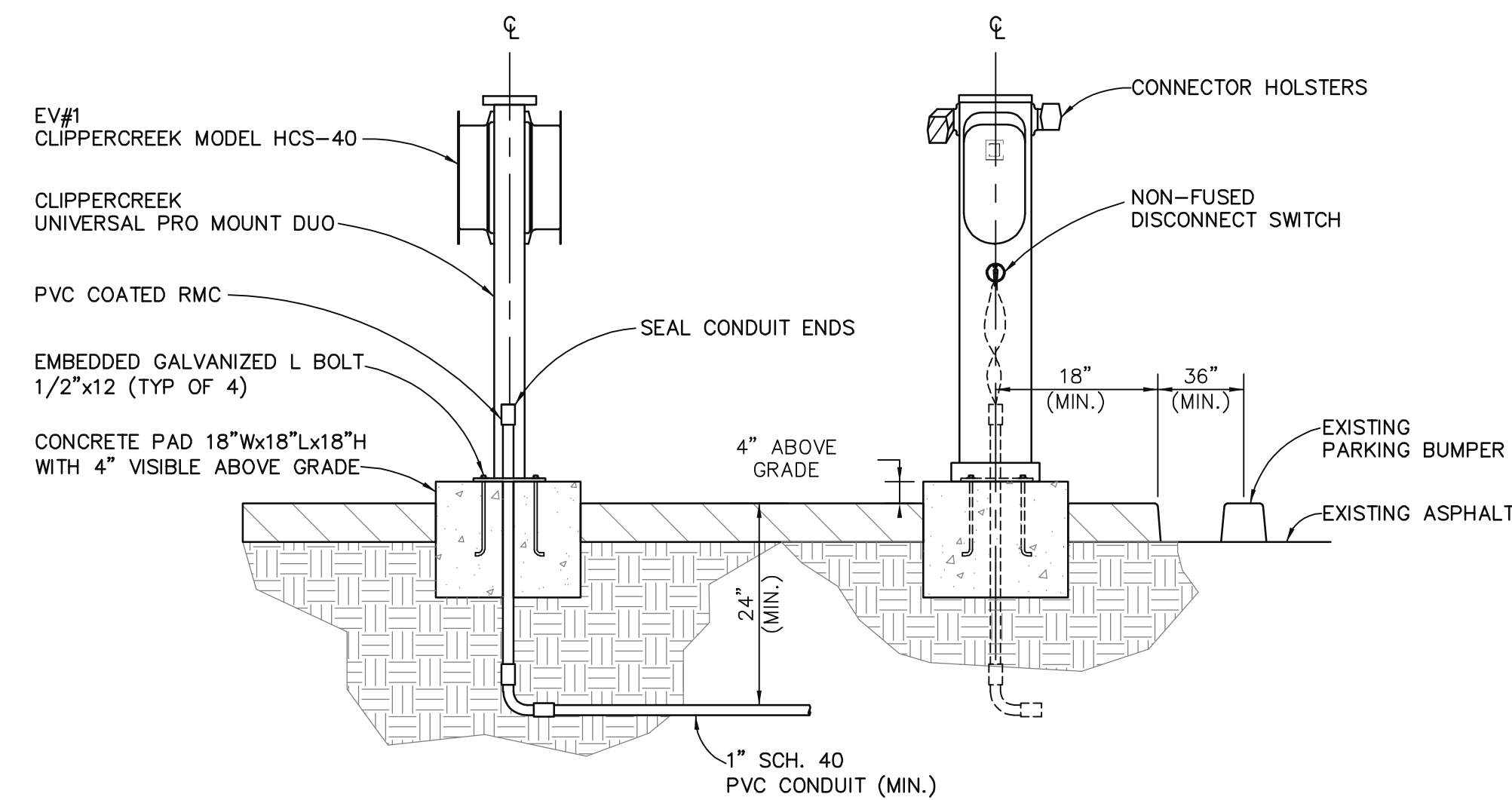
1. PROVIDE NEW 400A MAIN CIRCUIT BREAKER, 277/480V, 3Ø, 4W, 14KAIC RATED PANELBOARD IN A NEMA-3R ENCLOSURE.
2. PROVIDE NEW 112.5KVA TRANSFORMER IN A NEMA-3R ENCLOSURE.
3. PROVIDE NEW 400A MAIN CIRCUIT BREAKER, 120/208V, 3Ø, 4W, 10KAIC RATED PANELBOARD IN A NEMA-3R ENCLOSURE.

CONDUIT AND FEEDER SCHEDULE					
* MARK	CONDUIT		CONDUCTORS EACH CONDUIT		
	QTY	SIZE	QTY	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.

1 ELECTRICAL ONE-LINE DIAGRAM





NOTE:

1. CONTRACTOR TO PROVIDE CHARGING STATIONS AND PEDESTALS.
2. PROVIDE NON-FUSED DISCONNECT SWITCH C3CONTROLS SERIES DDS2 OR EQUIVALENT AS REQUIRED.

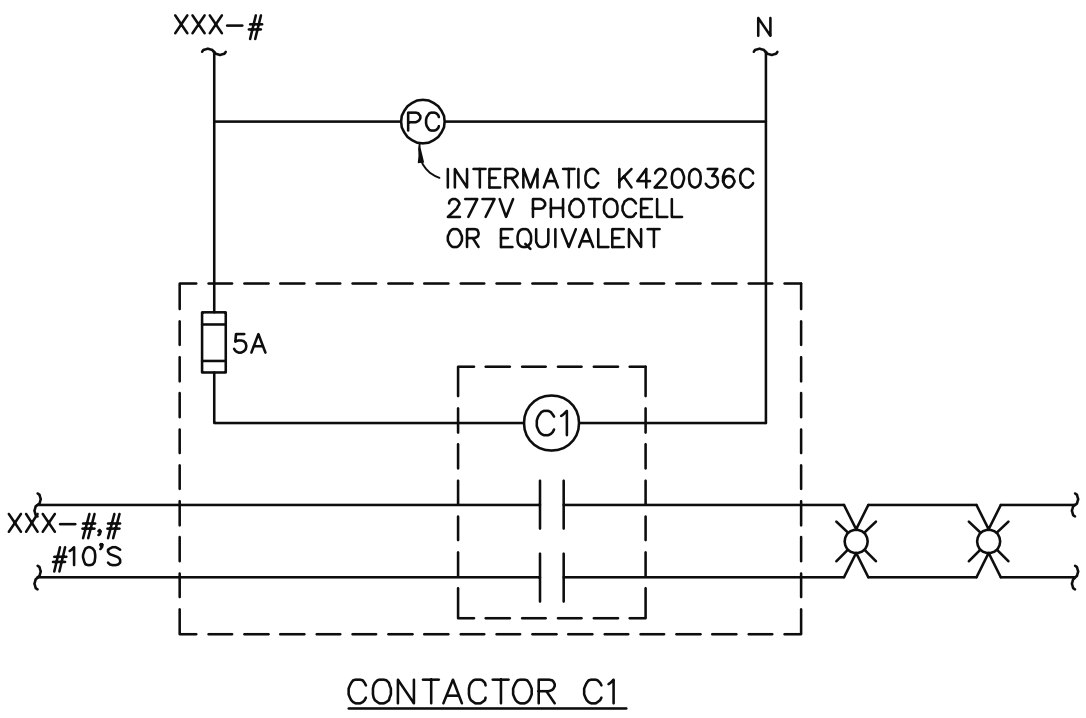
1 EV CHARGING STATIONS

SRP STANDARD

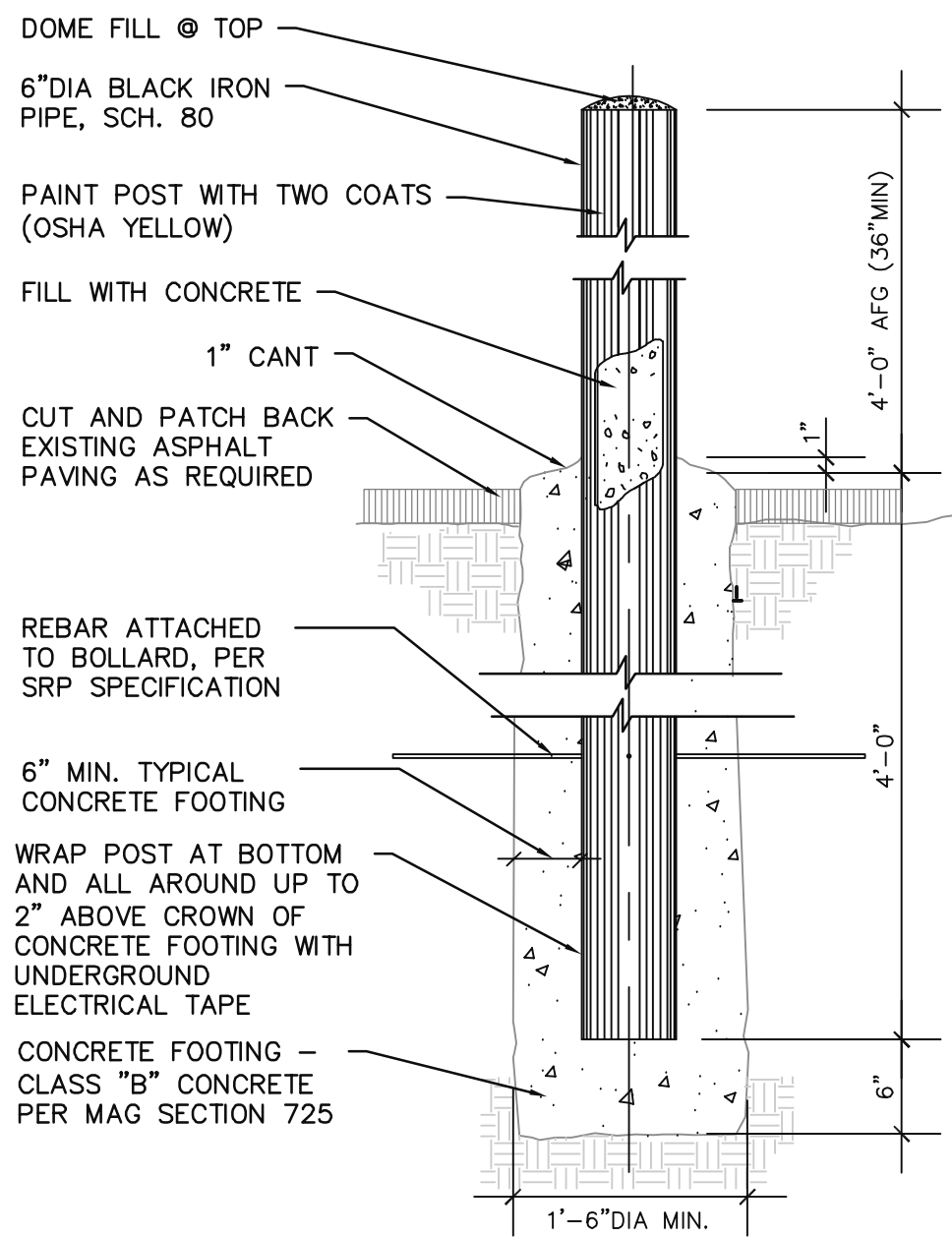
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SRP TSC ELECTRICAL SITE WORK, PHASE-4 ELECTRICAL ONE-LINE DIAGRAM			
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		SHEET # E600	

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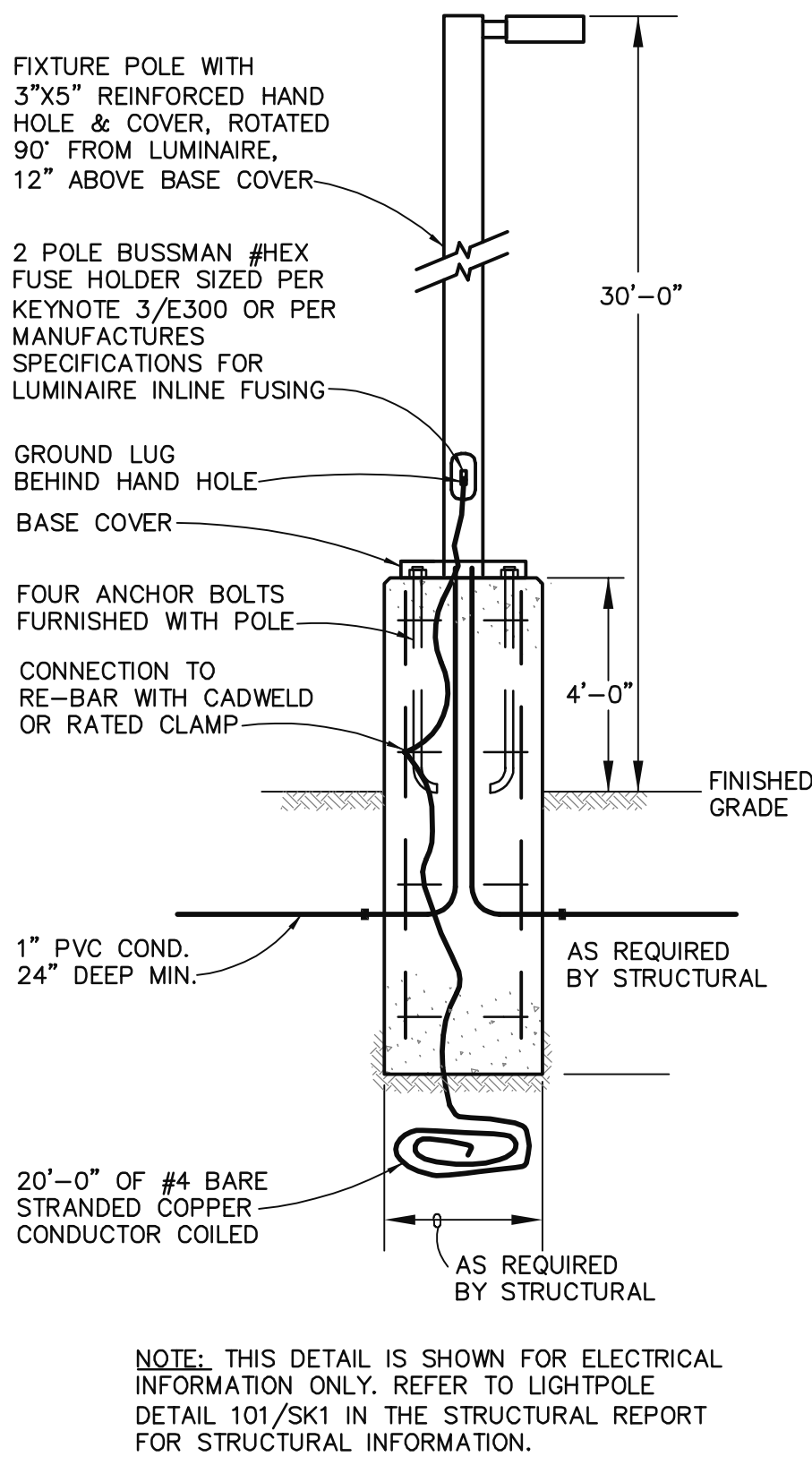
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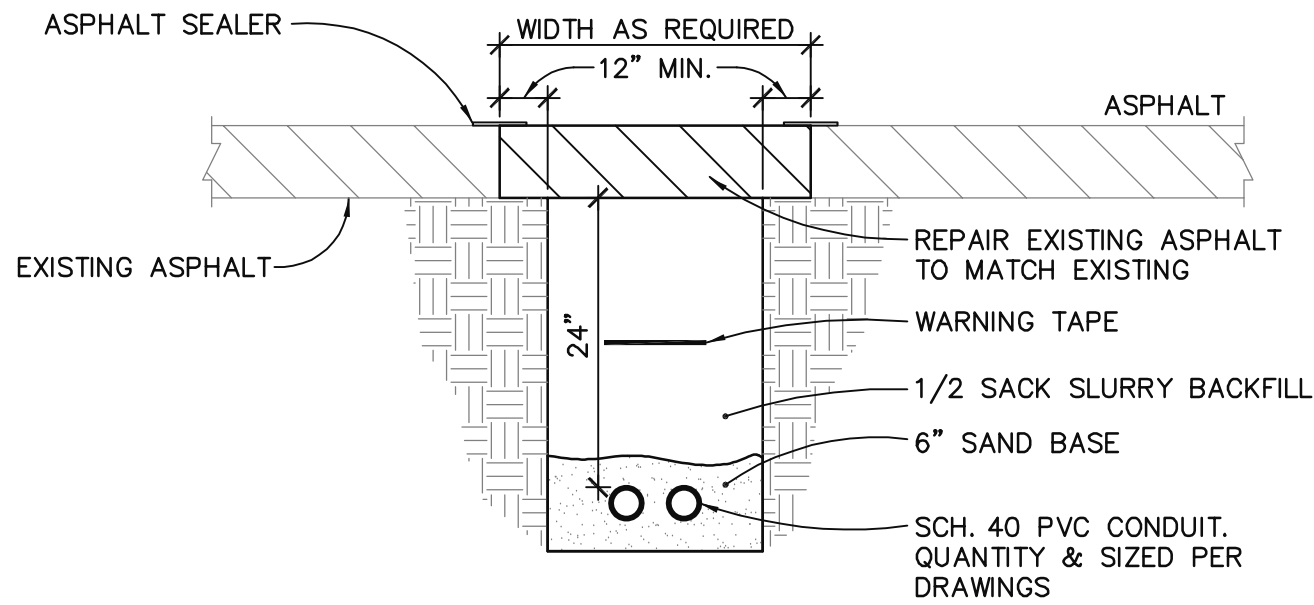
4 LIGHTING CONTACTORS
NTS



5 TYPICAL 6" BOLLARD DETAIL - VEHICLE
NTS SRP STANDARD

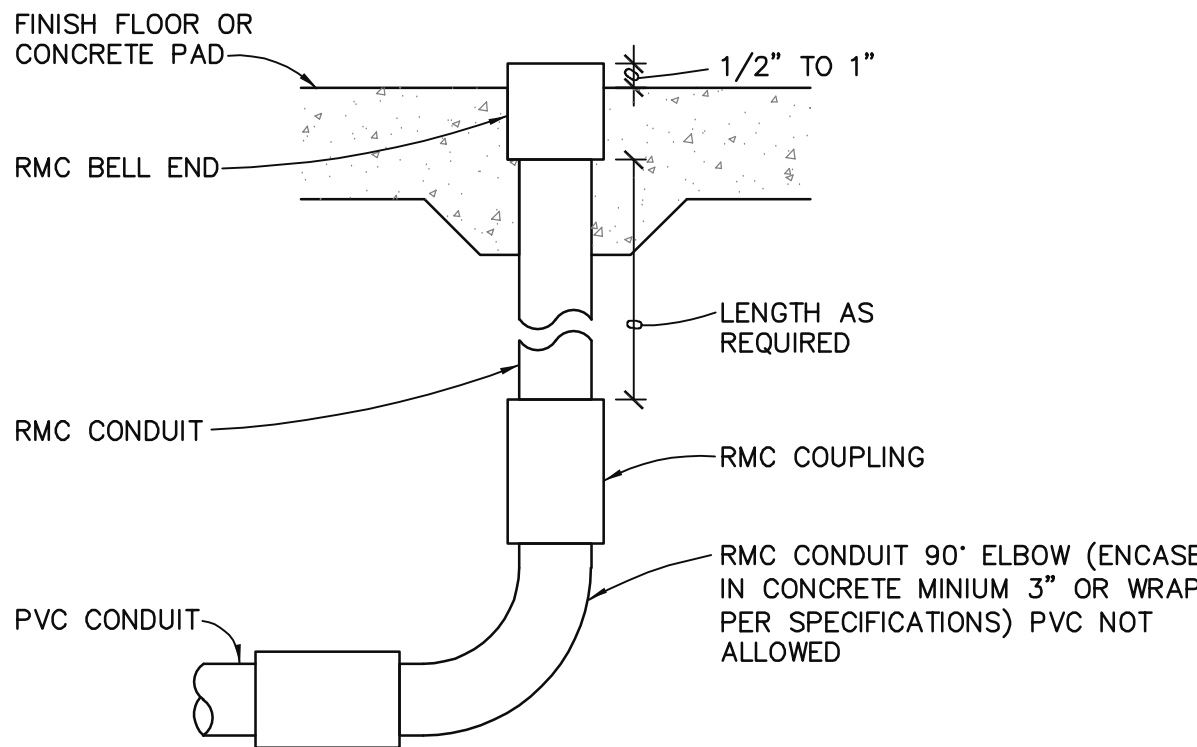


3 LIGHT POLE DETAIL
NTS



- 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



2 CONDUIT STUB UP TO ELECTRICAL EQUIPMENT
NTS

LIGHT FIXTURE SCHEDULE						
MARK	MANUFACTURER	CATALOG NO.	LAMPS		VOLT	MOUNT
			NO.	TYPE		
SC5	LITHONIA	DSXSC-LED-30C-1000-40K-T5M-* DOBXD	-	107W LED 4000K	-	SURFACE
SP5W	LITHONIA	DSX2-LED-P8-40K-T5W-* SPA-DOBXD	-	448W LED 4000K	240/480	POLE

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SRP TSC
ELECTRICAL SITE WORK, PHASE-4
ELECTRICAL DETAILS

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FILENAME:	DESIGNED BY:SW	E900
PROJECT: -	DATE: 07/07/2022	

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. FINISHED GRADE IS DEFINED AS TOP OF PAD AND LOWEST ADJACENT GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. ALLOWABLE DESIGN SOIL BEARING VALUE = 1,800 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 ----- 2"
#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 SPICES IN CONCRETE: ALL SPICE 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 SPICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" TENSION LAP SPICES PER LATEST EDITION OF ACI 318. STAGGER SPICES A MINIMUM OF ONE LAP LENGTH. ONLY WHEN SPECIFICALLY NOTED ON DRAWINGS MAY LAP SPICES IN CONCRETE COLUMNS BE STANDARD COMPRESSION LAP SPICES.

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.

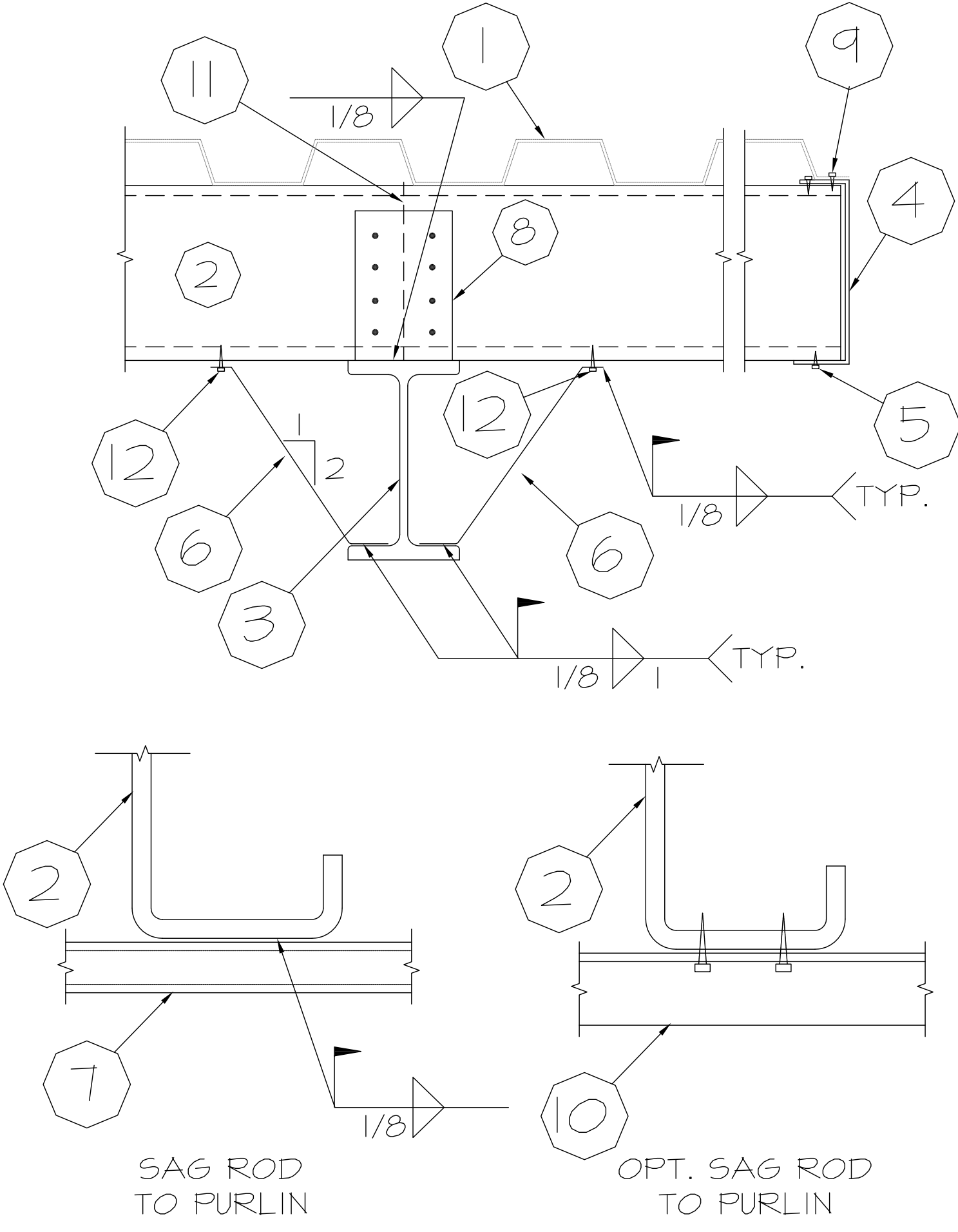
DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

- 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.

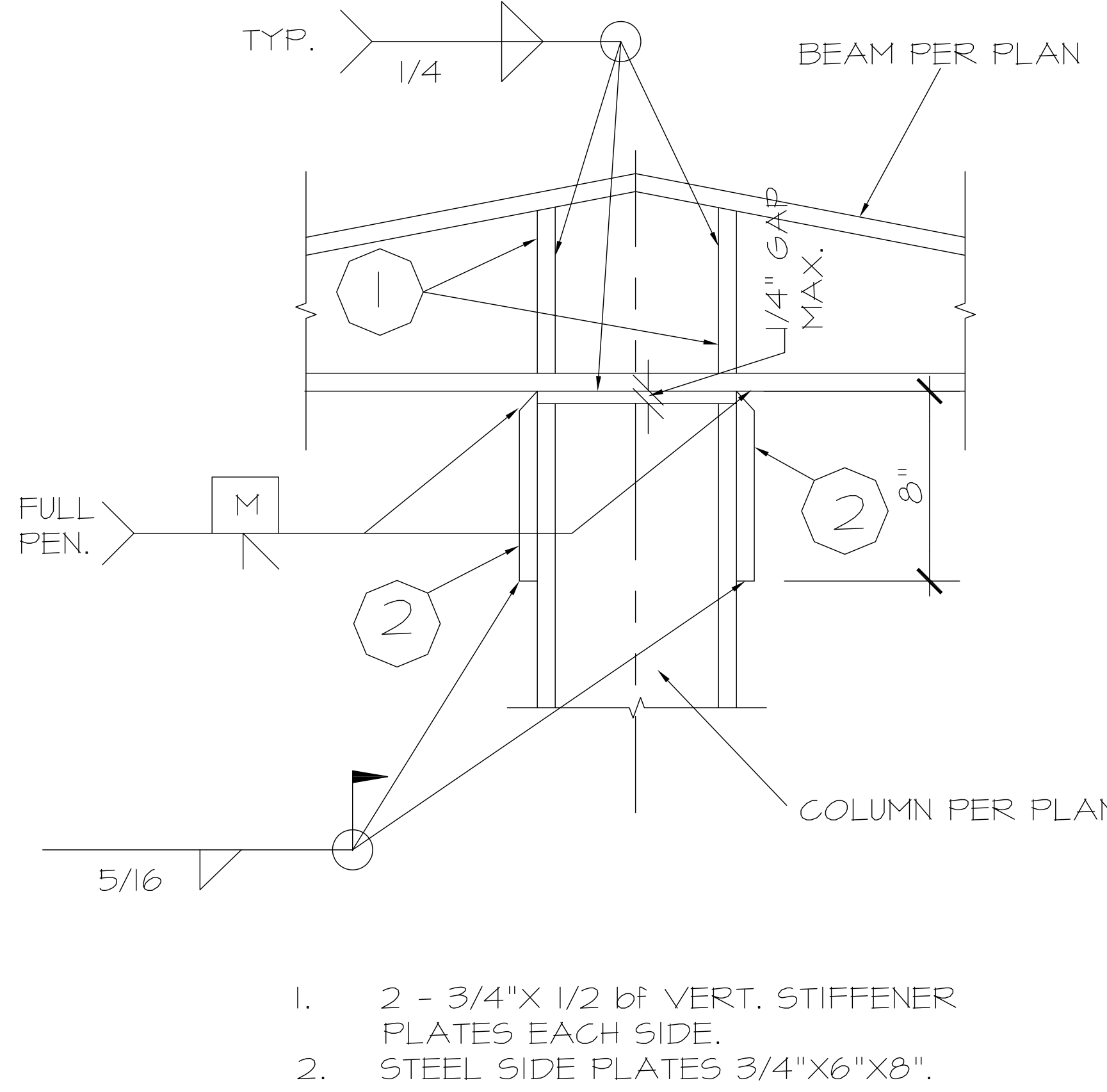
SPECIAL INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STATE REGISTERED PROFESSIONAL ENGINEER WHO IS FAMILIAR WITH THE STRUCTURAL DESIGN OF THIS PROJECT. THE SUPERVISING STRUCTURAL ENGINEER SHALL SEAL THE SPECIAL INSPECTION CERTIFICATE.

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.



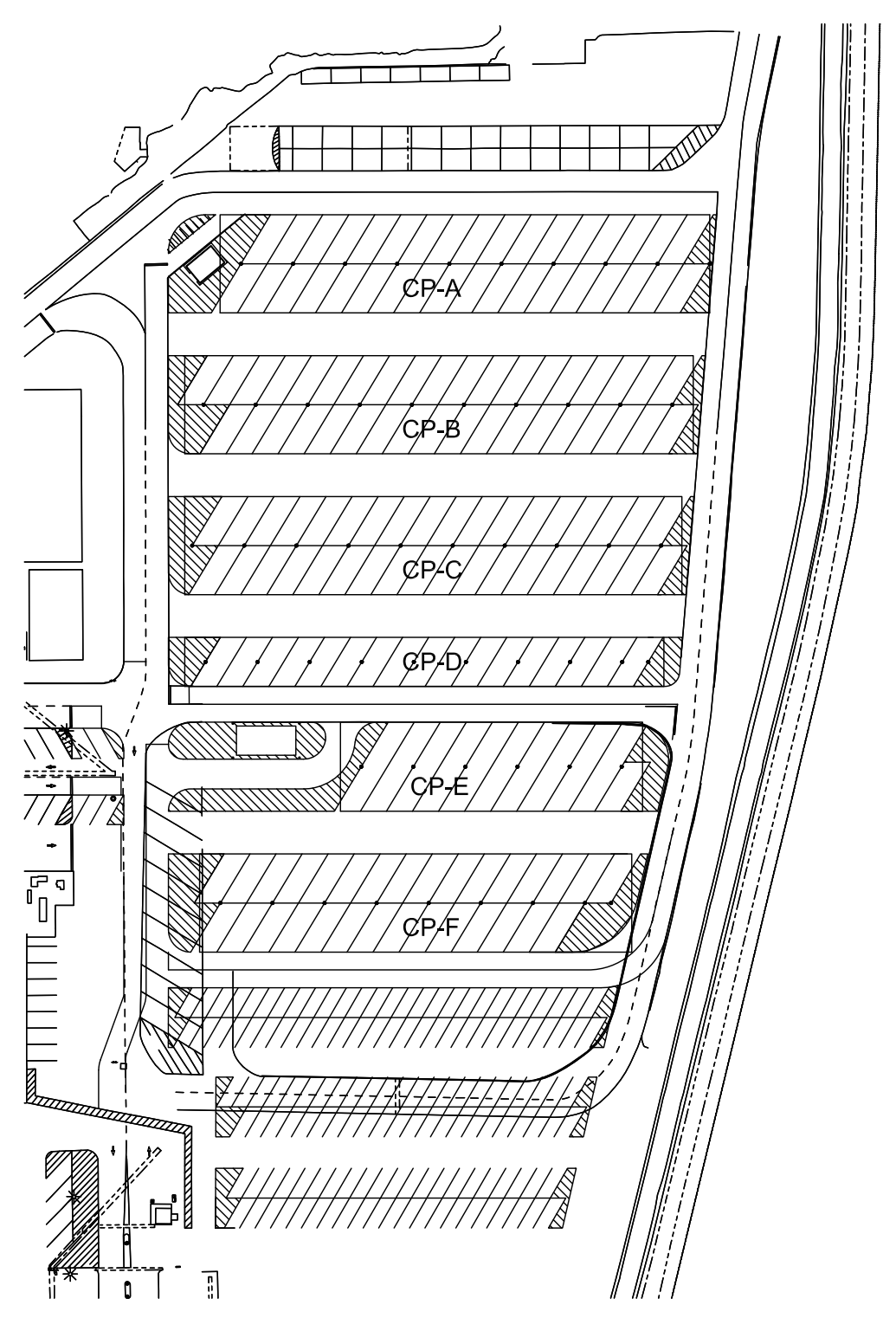
1. ROOF STEEL DECK PER GSN.
2. STEEL PURLIN - SEE PLAN.
3. STEEL BEAM PER PLAN.
4. [- 10" X 2" X 16" GA END CAP.
5. #10 TEK SCREWS EA PURLIN - TOP & BOTTOM.
6. 2" X 1/8" FLANGE BRACE - SEE PLAN FOR LOCATION.
7. TS - 1/2" X 1/2" X 16 GA. SAG RODS - SEE PLAN FOR LOCATION.
8. STEEL PLATE 1/8"x6"x8" W/ 8-#10 TEKS SCREWS TO PURLIN.
9. EDGE FASTENING PER GSN.
10. 1.5"x1.25"x16GA. (150F125-43) HAT CHANNEL SAG RODS W/ 2 #10 TEKS TO PURLIN - SEE PLAN FOR LOCATION.
11. PURLIN SPLICE AT INTERIOR BEAMS ONLY.
12. OPTIONAL 2-#10 TEKS SCREWS IN LIEU OF WELD.

① BRACE AND PURLIN TO BEAM



1. 2 - 3/4"x 1/2 bf VERT. STIFFENER PLATES EACH SIDE.
2. STEEL SIDE PLATES 3/4"x6"x8".

② BEAM TO COLUMN



KEYPLAN



DESERT FOX, LLC.
consulting structural engineers
T: (480) 205-2094
F: (480) 693-9328
964 E. SARATOGA ST.
GILBERT, ARIZONA 85296

SRP - TEMPE SERVICE CENTER - PHASE 4
STEEL TRUCK CANOPIES
110 W. ELLIOT RD.
TEMPE, AZ 85283

B NO: 22-12T
 PROJECT MGR: RRD
 DRAWN BY: HPR
 CHECKED BY: RRD

NO.	REVISION	DATE

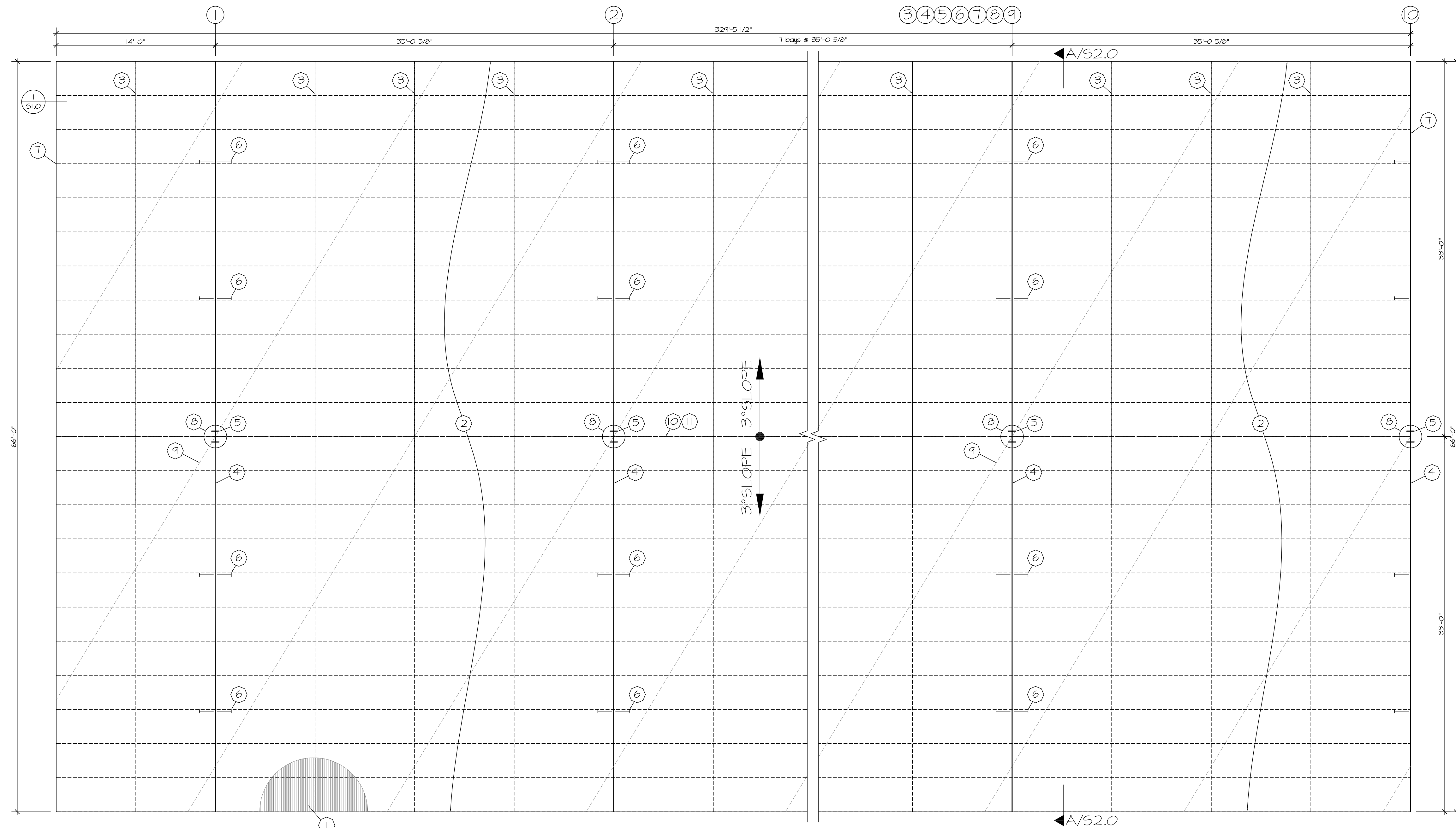
SHEET TITLE:
GENERAL: STRUCTURAL
NOTES, SECTION AND
CONNECTION DETAILS

PRELIMINARY
NOT FOR CONSTRUCTION
Professional Engineer Seal
DESERT FOX, LLC.
ARIZONA U.S.A.
EXPIRES 12.31.24

S1.0

ISSUE DATE: 07/07/2022

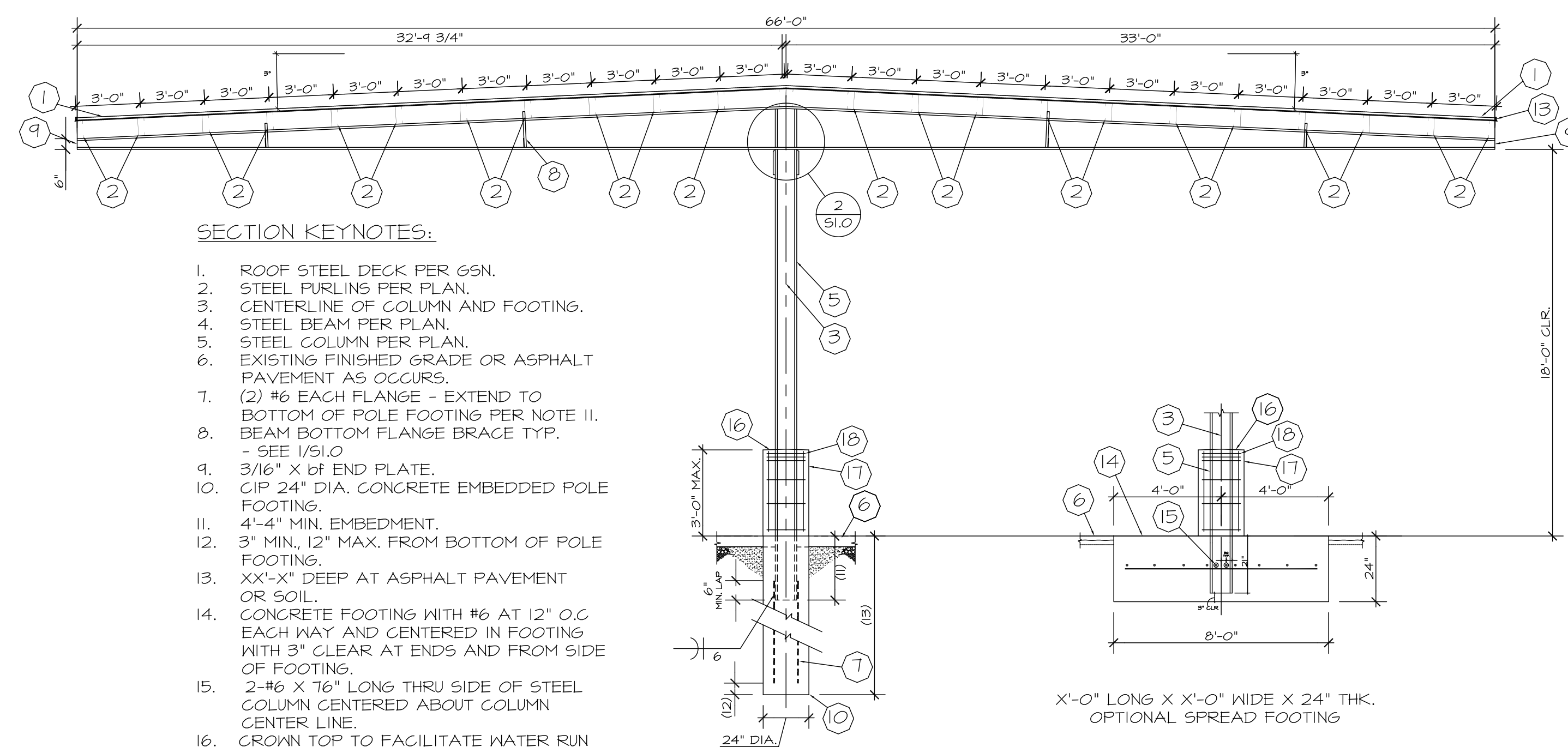
NOTE: THIS DRAWING IS ELECTRONICALLY SEALED AND SIGNED. AFFIXED ENGINEER SEAL IS FOR STRUCTURAL ELEMENTS ONLY. ANY PRE-MANUFACTURED ELEMENTS / EQUIPMENTS SHALL BE PER THEIR RESPECTIVE MANUFACTURER.



CP-A FRAMING PLAN TEE-STRUCTURE

PLAN KEYNOTES:

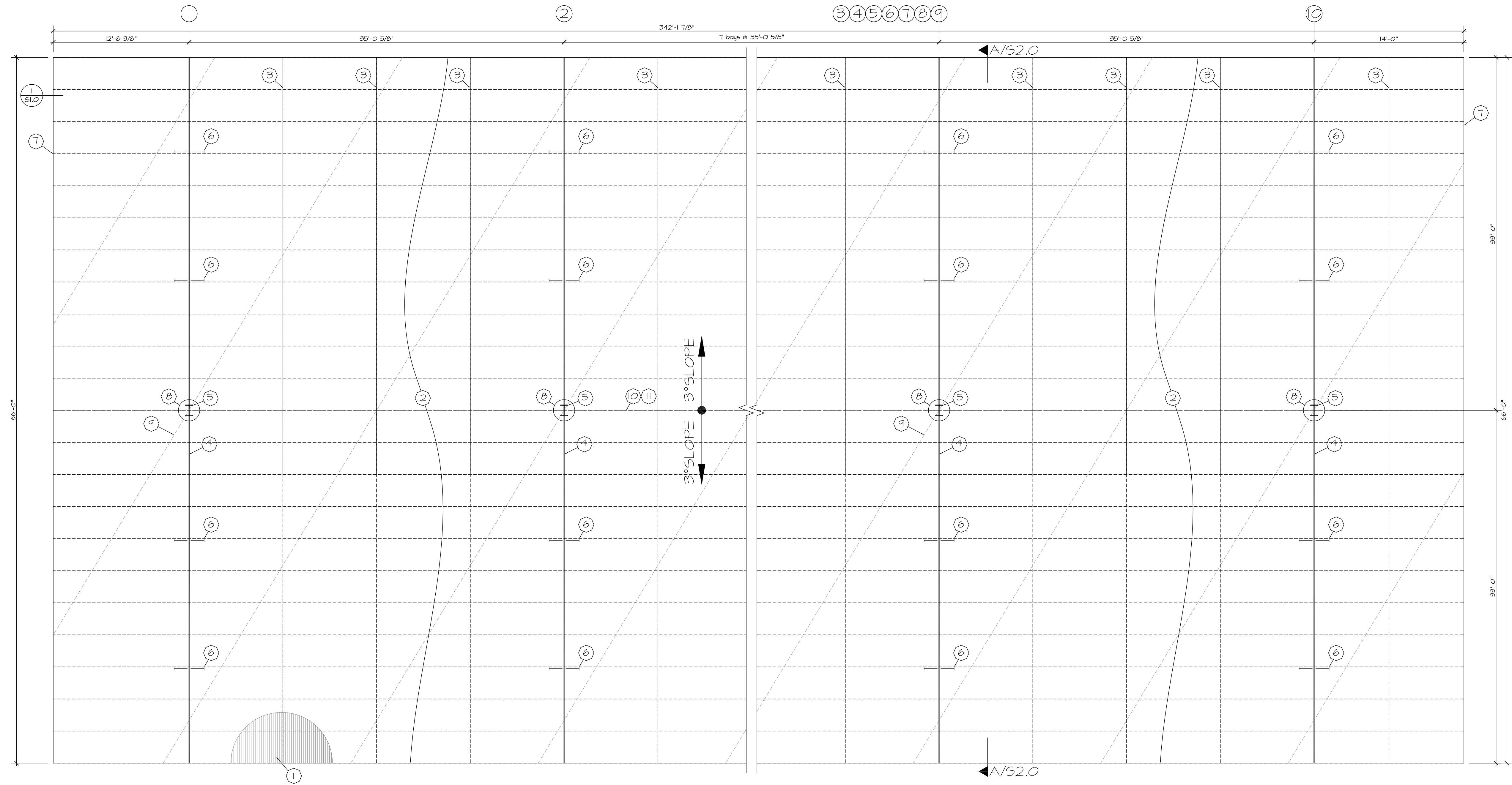
1. ROOF STEEL DECK PER GSN.
2. C-10"X3 1/2"X12 GA. STEEL PURLINS (1200S350-97 PER SSMA) - TYP.
3. SAG RODS @ 8'-9 1/8" O.C. (MAX.) - SEE I/SI.O
4. W24X-- TAPERED STEEL BEAM.
5. W12X-- STEEL COLUMN.
6. BEAM BOTTOM FLANGE BRACE TYP - SEE I/SI.O
7. [- 10" X 2" X 16 GA. STEEL TRACK END CAP (1000T200-54 PER SSMA).
8. CONCRETE POLE FOOTING BELOW PER CANOPY SECTION.
9. PARKING STALLS OUTLINE ORIENTATION (DIAGONAL).
10. CENTER RIDGE LINE.
11. BACK TO BACK PURLINS AT THE CENTER WHERE RIDGE OCCURS.



SECTION A

X'-0" LONG X X'-0" WIDE X 24" THK.
OPTIONAL SPREAD FOOTING

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PRE-MANUFACTURED ELEMENTS / EQUIPMENTS SHALL BE PER THEIR
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CP-B FRAMING PLAN
TEE-STRUCTURE



PLAN KEYNOTES:

1. ROOF STEEL DECK PER GSN.
2. C-10"X3 1/2"X12 GA. STEEL PURLINS (1200S350-97 PER SSMA) - TYP.
3. SAG RODS @ 8'-9 1/8" O.C. (MAX.) - SEE I/S1.0
4. W24X-- TAPERED STEEL BEAM.
5. W12X-- STEEL COLUMN.
6. BEAM BOTTOM FLANGE BRACE TYP - SEE I/S1.0
7. [- 10" X 2" X 16 GA. STEEL TRACK END CAP (1000T200-54 PER SSMA).
8. CONCRETE POLE FOOTING BELOW PER CANOPY SECTION.
9. PARKING STALLS OUTLINE ORIENTATION (DIAGONAL).
10. CENTER RIDGE LINE.
11. BACK TO BACK PURLINS AT THE CENTER WHERE RIDGE OCCURS.

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JOB NO: 22-127		
PROJECT MGR: RRD		
DRAWN BY: HPR		
CHECKED BY: RRD		
NO.	REVISION	DATE

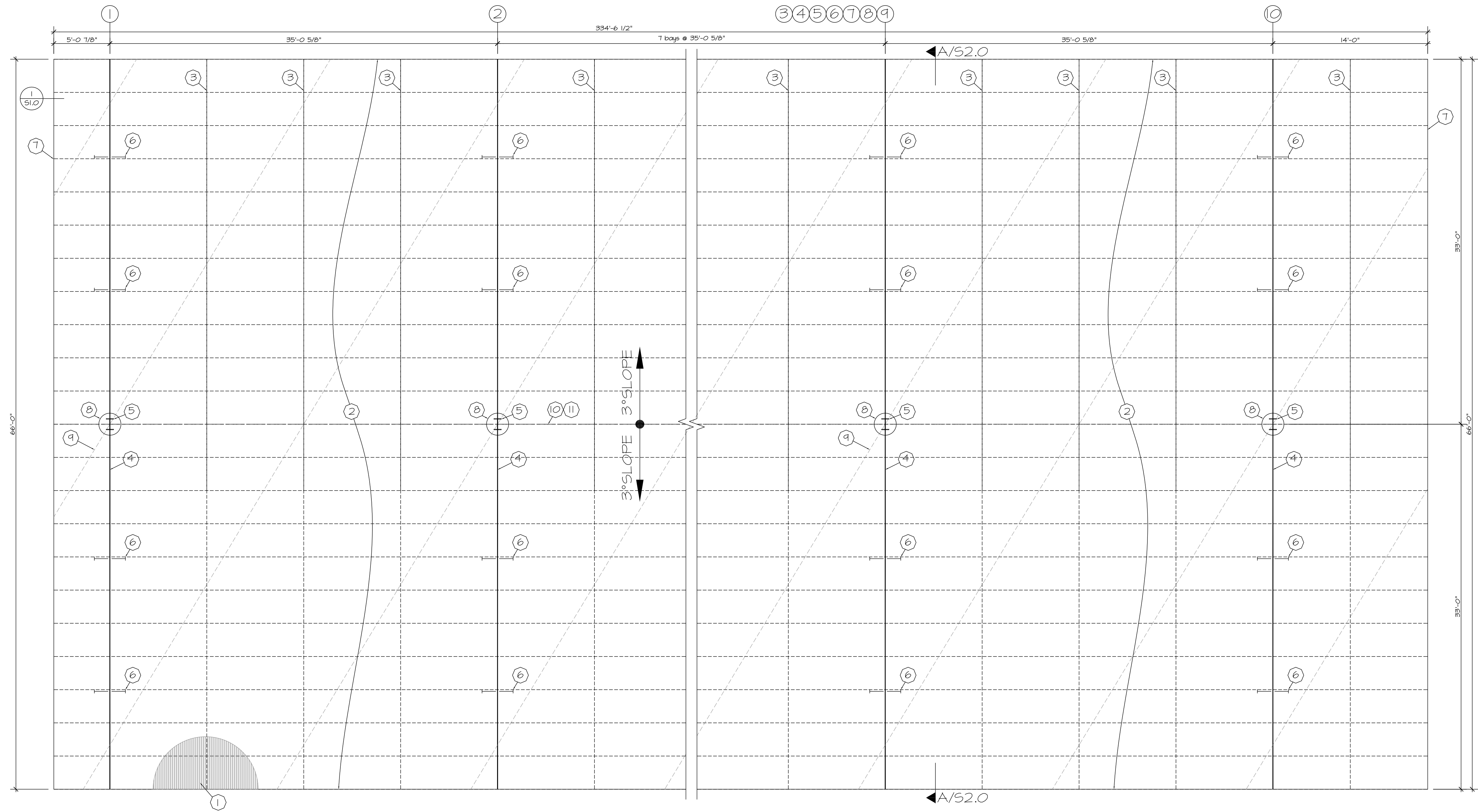
SHEET TITLE:
CP-B
FRAMING PLAN
TEE-STRUCTURE

PRELIMINARY
NOT FOR CONSTRUCTION



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ISSUE DATE: 07/07/2022



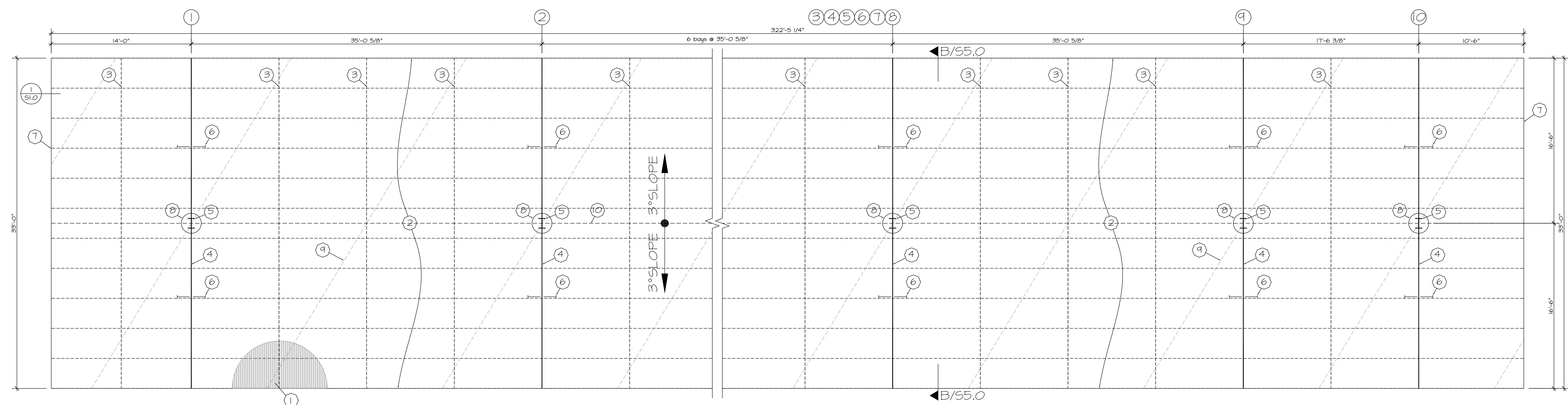
CP-C FRAMING PLAN
TEE-STRUCTURE



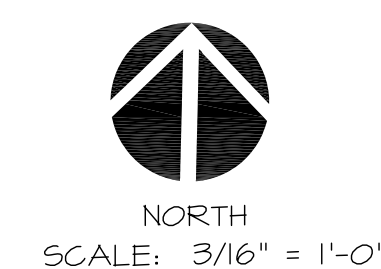
PLAN KEYNOTES:

1. ROOF STEEL DECK PER GSN.
2. C-10"X3 1/2"X12 GA. STEEL PURLINS (1200S350-97 PER SSMA) - TYP.
3. SAG RODS @ 8'-9 1/8" O.C. (MAX.) - SEE 1/SI.O
4. W24X-- TAPERED STEEL BEAM.
5. W12X-- STEEL COLUMN.
6. BEAM BOTTOM FLANGE BRACE TYP - SEE 1/SI.O
7. [- 10" X 2" X 16 GA. STEEL TRACK END CAP (1000T200-54 PER SSMA).
8. CONCRETE POLE FOOTING BELOW PER CANOPY SECTION.
9. PARKING STALLS OUTLINE ORIENTATION (DIAGONAL).
10. CENTER RIDGE LINE.
11. BACK TO BACK PURLINS AT THE CENTER WHERE RIDGE OCCURS.

NOTE: THIS DRAWING IS ELECTRONICALLY SEALED AND SIGNED.
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CP-D FRAMING PLAN TEE-STRUCTURE

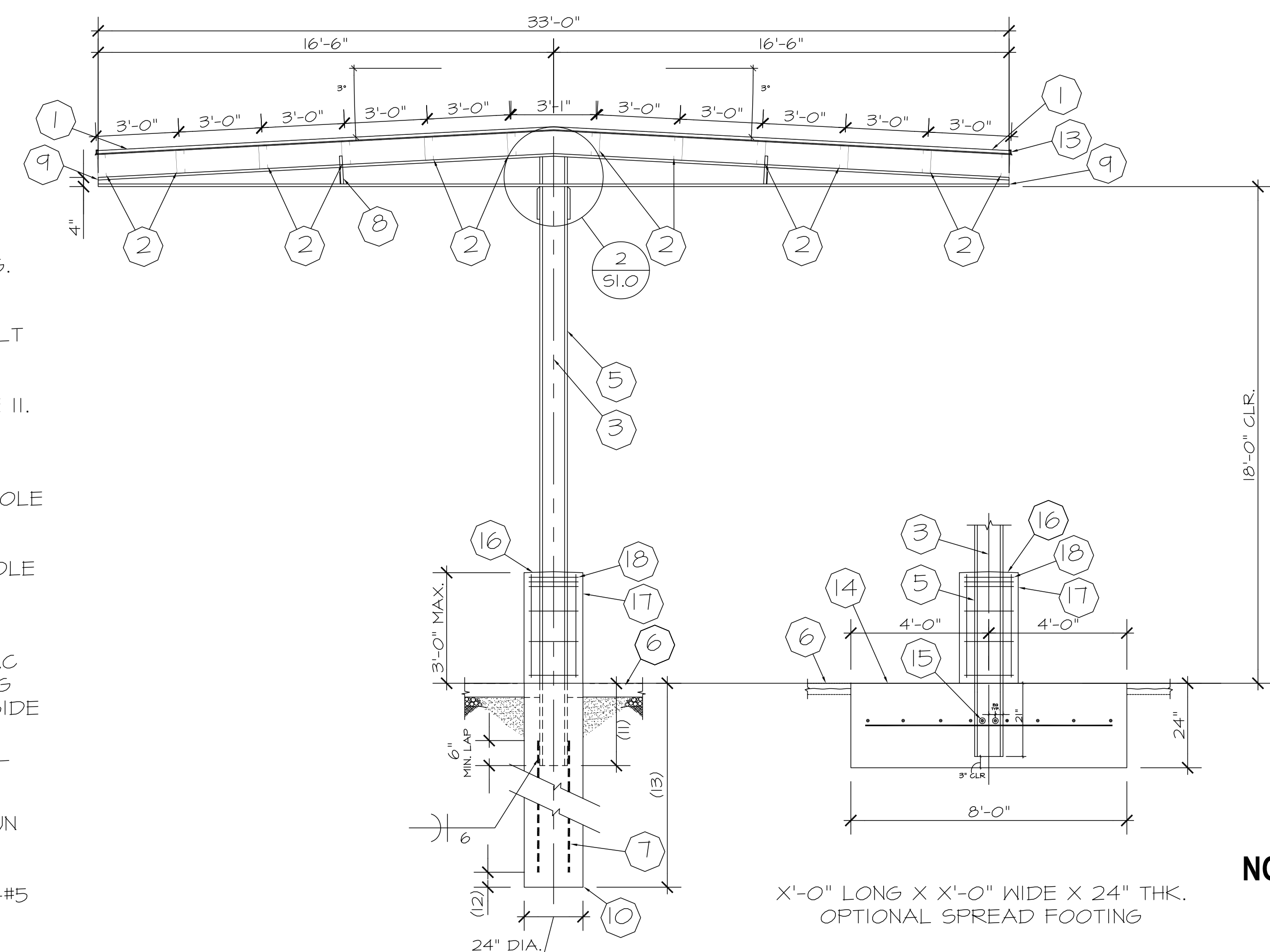


PLAN KEYNOTES:

1. ROOF STEEL DECK PER GSN.
2. C-10"X3 1/2"X12 GA. STEEL PURLINS (1200S350-97 PER SSMA) - TYP.
3. SAG RODS @ 8'-9 1/8" O.C. (MAX.) - SEE I/SI.O
4. W14X-- TAPERED STEEL BEAM.
5. W12X-- STEEL COLUMN.
6. BEAM BOTTOM FLANGE BRACE TYP - SEE I/SI.O
7. I - 10" X 2" X 16 GA. STEEL TRACK END CAP (1000T200-54 PER SSMA).
8. CONCRETE POLE FOOTING BELOW PER CANOPY SECTION.
9. PARKING STALLS OUTLINE ORIENTATION (DIAGONAL).
10. CENTER RIDGE LINE.

SECTION KEYNOTES:

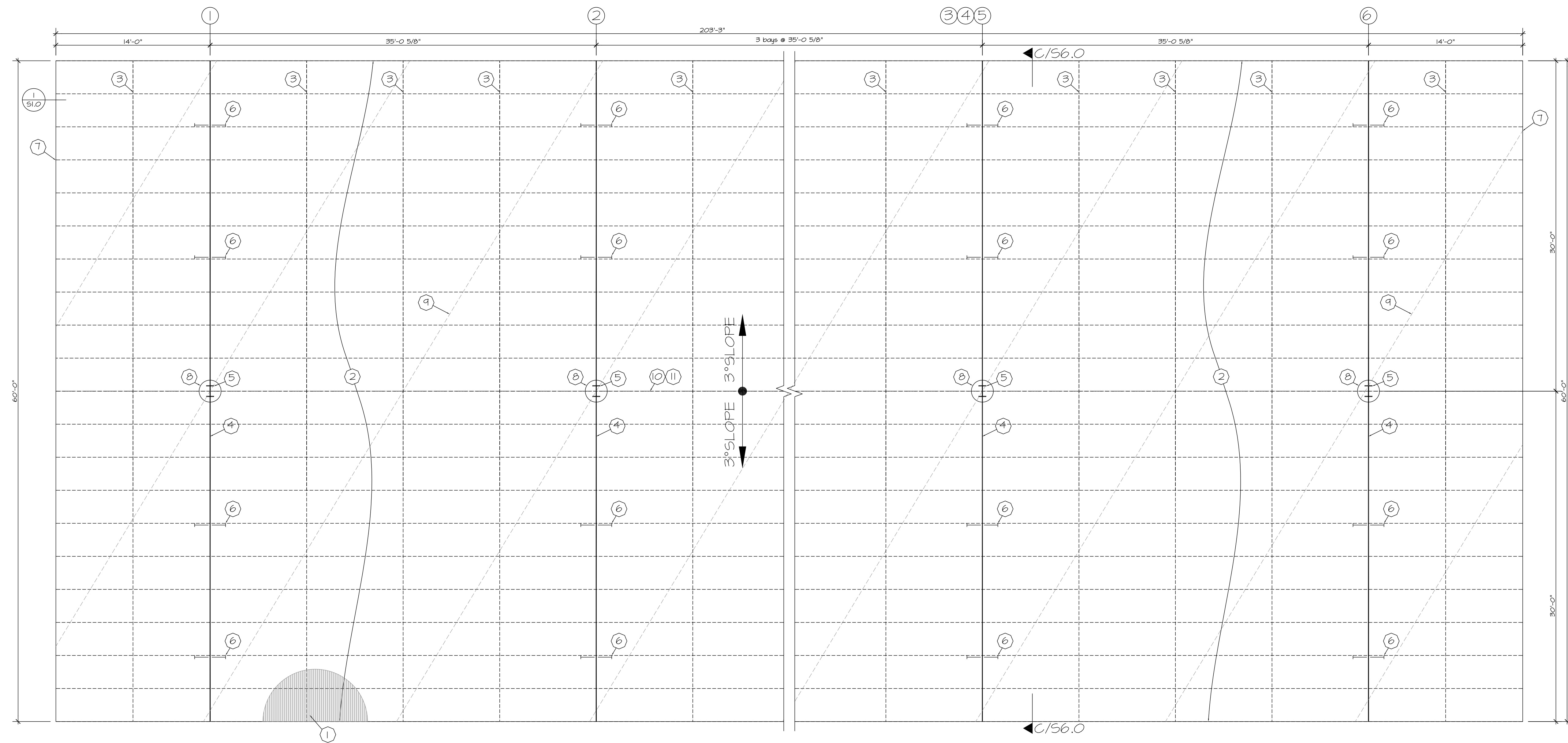
1. ROOF STEEL DECK PER GSN.
2. STEEL PURLINS PER PLAN.
3. CENTERLINE OF COLUMN AND FOOTING.
4. STEEL BEAM PER PLAN.
5. STEEL COLUMN PER PLAN.
6. EXISTING FINISHED GRADE OR ASPHALT PAVEMENT AS OCCURS.
7. (2) #6 EACH FLANGE - EXTEND TO BOTTOM OF POLE FOOTING PER NOTE II.
8. BEAM BOTTOM FLANGE BRACE TYP. - SEE I/SI.O
9. 3/16" X bf END PLATE.
10. CIP 24" DIA. CONCRETE EMBEDDED POLE FOOTING.
11. 4'-4" MIN. EMBEDMENT.
12. 3" MIN., 12" MAX. FROM BOTTOM OF POLE FOOTING.
13. XX'-0" DEEP AT ASPHALT PAVEMENT OR SOIL.
14. CONCRETE FOOTING WITH #6 AT 12" O.C EACH WAY AND CENTERED IN FOOTING WITH 3" CLEAR AT ENDS AND FROM SIDE OF FOOTING.
15. 2-#6 X 76" LONG THRU SIDE OF STEEL COLUMN CENTERED ABOUT COLUMN CENTER LINE.
16. CROWN TOP TO FACILITATE WATER RUN OFF.
17. 24" DIA. BOLLARD (TO BE POURED SEPARATELY FROM FOOTING) WITH 4-#5 VERT. REINF. AND #3 TIES AT 12" O.C.
18. 3-#3 HORIZONTAL TIES @ TOP 5" OF CONCRETE BOLLARD.



SECTION B

X'-0" LONG X X'-0" WIDE X 24" THK.
OPTIONAL SPREAD FOOTING

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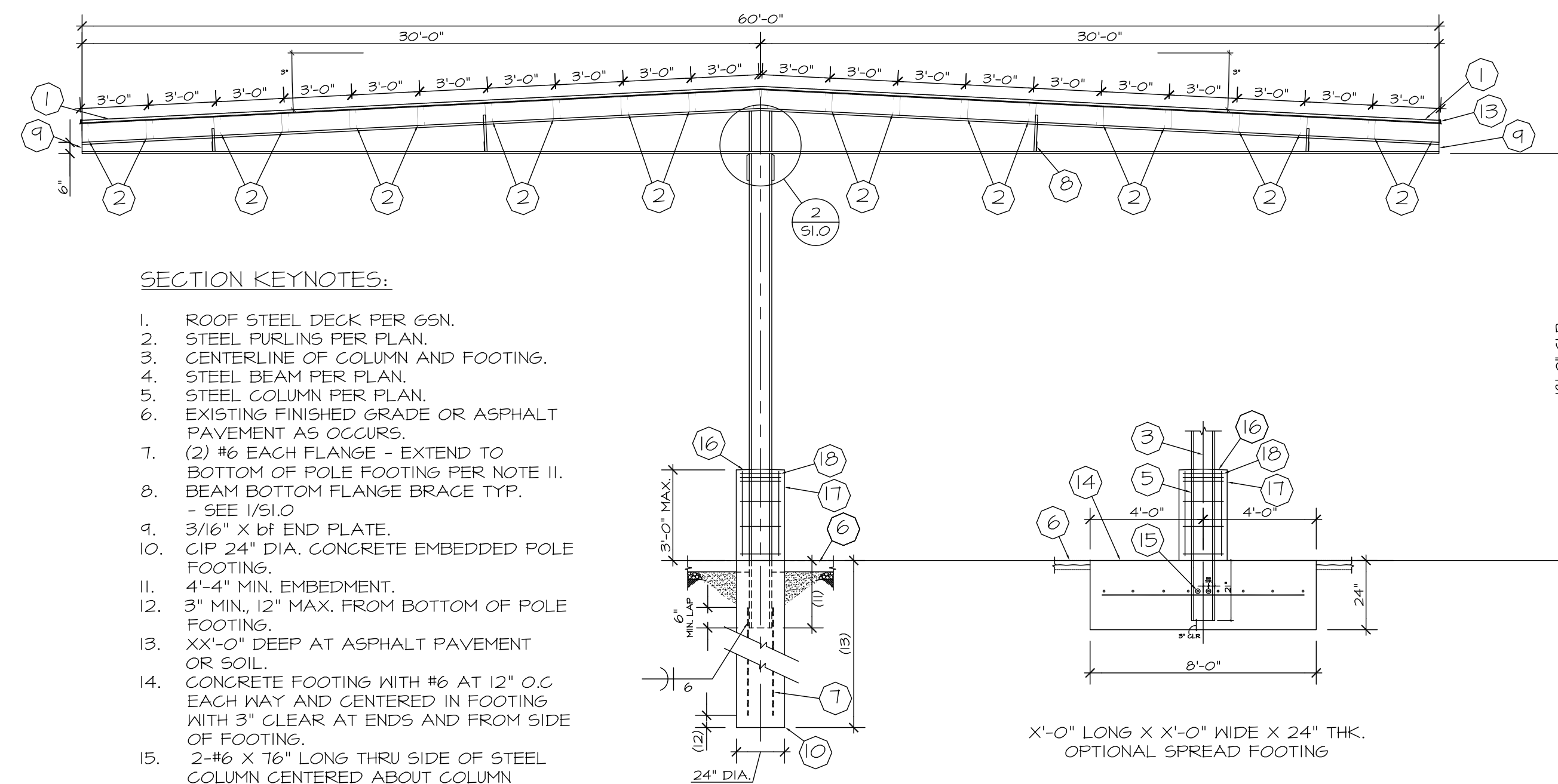


CP-E FRAMING PLAN TEE-STRUCTURE



PLAN KEYNOTES:

1. ROOF STEEL DECK PER GSN.
2. C-10"X3 1/2"X12 GA. STEEL PURLINS (1200S350-97 PER SSMA) - TYP.
3. SAG RODS @ 8'-9 1/8" O.C. (MAX.) - SEE I/SI.O
4. W24X-- TAPERED STEEL BEAM.
5. W12X-- STEEL COLUMN.
6. BEAM BOTTOM FLANGE BRACE TYP - SEE I/SI.O
7. [- 10" X 2" X 16 GA. STEEL TRACK END CAP (1000T200-54 PER SSMA).
8. CONCRETE POLE FOOTING BELOW PER CANOPY SECTION.
9. PARKING STALLS OUTLINE ORIENTATION (DIAGONAL).
10. CENTER RIDGE LINE.
11. BACK TO BACK PURLINS AT THE CENTER WHERE RIDGE OCCURS.



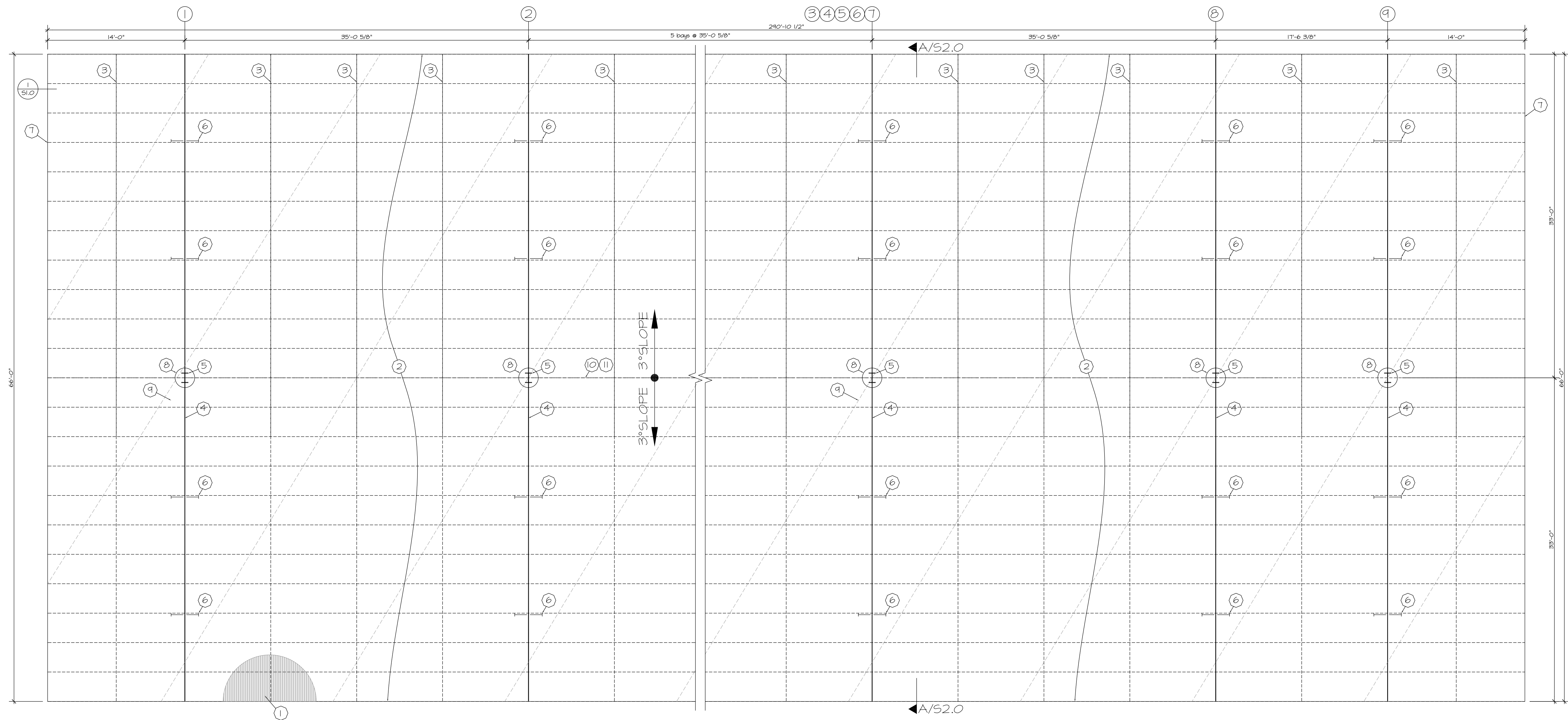
SECTION KEYNOTES:

1. ROOF STEEL DECK PER GSN.
2. STEEL PURLIN PER PLAN.
3. CENTERLINE OF COLUMN AND FOOTING.
4. STEEL BEAM PER PLAN.
5. STEEL COLUMN PER PLAN.
6. EXISTING FINISHED GRADE OR ASPHALT PAVEMENT AS OCCURS.
7. (2) #6 EACH FLANGE - EXTEND TO BOTTOM OF POLE FOOTING PER NOTE II.
8. BEAM BOTTOM FLANGE BRACE TYP. - SEE I/SI.O
9. 3/16" X 16" END PLATE.
10. CLIP 24" DIA. CONCRETE EMBEDDED POLE FOOTING.
11. 4'-4" MIN. EMBEDMENT.
12. 3" MIN, 12" MAX. FROM BOTTOM OF POLE FOOTING.
13. XX'-0" DEEP AT ASPHALT PAVEMENT OR SOIL.
14. CONCRETE FOOTING WITH #6 AT 12" O.C EACH WAY AND CENTERED IN FOOTING WITH 3" CLEAR AT ENDS AND FROM SIDE OF FOOTING.
15. 2-#6 X 16" LONG THRU SIDE OF STEEL COLUMN CENTERED ABOUT COLUMN CENTER LINE.
16. CROWN TOP TO FACILITATE WATER RUN OFF.
17. 24" DIA. BOLLARD (TO BE POURED SEPARATELY FROM FOOTING) WITH 4-#5 VERT. REINF. AND #3 TIES AT 12" O.C.
18. 3-#3 HORIZONTAL TIES @ TOP 5" OF CONCRETE BOLLARD.

SECTION C

X'-0" LONG X X'-0" WIDE X 24" THK.
OPTIONAL SPREAD FOOTING

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CP-F FRAMING PLAN
TEE-STRUCTURE



PLAN KEYNOTES:

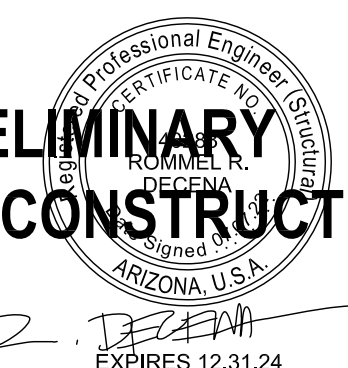
1. ROOF STEEL DECK PER GSN.
2. C-10"X3 1/2"X12 GA. STEEL PURLINS (1200S350-97 PER SSMA) - TYP.
3. SAG RODS @ 8'-9 1/8" O.C. (MAX.) - SEE I/SI.O
4. W24X-- TAPERED STEEL BEAM.
5. W12X-- STEEL COLUMN.
6. BEAM BOTTOM FLANGE BRACE TYP - SEE I/SI.O
7. [- 10" X 2" X 16 GA. STEEL TRACK END CAP (1000T200-54 PER SSMA).
8. CONCRETE POLE FOOTING BELOW PER CANOPY SECTION.
9. PARKING STALLS OUTLINE ORIENTATION (DIAGONAL).
10. CENTER RIDGE LINE.
11. BACK TO BACK PURLINS AT THE CENTER WHERE RIDGE OCCURS.

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RESPECTIVE MANUFACTURER.

JOB NO: 22-12T		
PROJECT MGR: RRD		
DRAWN BY: HPR		
CHECKED BY: RRD		
NO.	REVISION	DATE

SHEET TITLE:
CP-F
FRAMING PLAN
TEE-STRUCTURE

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ISSUE DATE: 07/07/2022