Santa Maria Public Airport District

Parking Lot and Apron Rehabilitation

Addendum No. 2

Contractors interested in bidding the work of this project are hereby notified of the following additions, deletions, changes, revisions, and/or modifications to the Plans and Specifications for this project.

Changes to Technical Specifications / Contract Book:

1.01 Bid Schedule Change: The Bid Schedule has been revised to reflect changes in two bid item estimated quantities. The revised bid schedule (page 16 of 140) is included as an attachment to this Addendum:

A. Bid Item 13: Seal Coat Type A. Quantity change from 8,200 SY to now be 10,050 SY.
B. Bid Item 18: Airfield Marking: Two Coat with Reflective. Quantity change from 700 SF to now be 1,500 SF.

1.02 License Requirement Change: Section A-3.1 LICENSE REQUIREMENTS "The type of contractor's license required is **Engineering A**" to now be "The type of contractor's license required is **Engineering A** or **C-12**"

1.03 Modification to section **608-4.3:**
(For clarity, the entire Section 608-4.3 is included in this addenda. **Red** text is additional to initial specification.)

608-4.3 Equipment and tools. The Contractor shall furnish all equipment, tools, and machinery necessary for the performance of the work.

a. Combination Synchronous Asphalt Distributor and Aggregate Spreader. The application machine for spreading the emulsion and the aggregate shall be truck-mounted self-propelled, designed to apply the emulsion and the fine-aggregate in a single-pass operation, with the aggregate being applied within less than 3 feet of the emulsion spray, and shall spread the fine aggregate via a computer rate-controlled aggregate distribution apparatus that is integral to the asphalt distributor truck and is designed specifically for fine-aggregate distribution. The application machine shall be designed and equipped with individual nozzle control to distribute the emulsion uniformly on variable widths of surface, zero to 15 feet wide, at readily determined and controlled rates from 0.10 to 0.30 gallons of liquid per square yard of surface, and 2 to 4 pounds of fine aggregate per SY of surface. Apparatus for liquid shall include computer rate-control, full circulation spray bars, pump rpm gauge, volume measuring device, integral heater (thermostatically controlled), and a hand hose attachment suitable for application of the emulsion manually to cover areas inaccessible to the distributor truck. The machine shall be equipped to circulate and heat the emulsion within the tank.

The equipment shall be in good working order and contain no contaminants or diluents in the tank. Spray bar nozzles must be clean, free of burrs, and of a size to maintain an even distribution of the emulsion. The apparatus shall maintain predetermined flow rates and constant pressure during the application process with application speeds under eight (8) miles per hour (13 km per hour) or seven hundred (700) feet per minute (213 m per minute). The equipment will be tested under pressure for leaks and to ensure proper set-up before use. The Contractor will provide verification of truck set-up (via a test-shot area), including but not limited to, nozzle tip size appropriate for application per nozzle manufacturer, spray-bar height and pressure and pump speed appropriate for the viscosity and temperature of sealer material, evidence of triple-overlap spray pattern, lack of leaks, and any other factors relevant to ensure the truck is in good working order before use.

Prior to any seal coat application, the aggregate spreader will be calibrated onsite to ensure acceptable uniformity of spread. The RPR will observe the calibration and verify the results. The aggregate spreader will be re-calibrated each time the aggregate rate is changed either during the application of test strips or production. The Contractor may consult the seal coat manufacturer representative for procedure and guidance. Push-type hand sanders will be allowed for use around lights, signs and other obstructions, if necessary.

b. Pressure distributor. The emulsion shall be applied with a manufacturer-approved computer rate-controlled asphalt distributor. The equipment shall be in good working order and contain no contaminants or diluents in the tank. Spray bar tips must be clean, free of burrs, and of a size to maintain an even distribution of the emulsion. Any type of tip or pressure source is suitable that will maintain predetermined flow rates and constant pressure during the application process with application speeds under eight (8) miles per hour (13 km per hour) or seven hundred (700) feet per minute (213 m per minute). The equipment will be tested under pressure for leaks and to ensure proper set-up before use. The Contractor will provide verification of truck set-up (via a test-shot area), including but not limited to, nozzle tip size appropriate for application per nozzle manufacturer, spray-bar height and pressure and pump speed appropriate for the viscosity and temperature of sealer material, evidence of triple-overlap spray pattern, lack of leaks, and any other factors relevant to ensure the truck is in good working order before use.

The distributor truck shall be equipped with a 12-foot (3.7-m), minimum, spray bar with individual nozzle control. The distributor truck shall be capable of specific application rates in the range of 0.05 to 0.25 gallons per square yard (0.15 to 0.80 liters per square meter). These rates shall be computer-controlled rather than mechanical. The distributor truck shall have an easily accessible thermometer that constantly monitors the temperature of the emulsion, and have an operable mechanical tank gauge that can be used to cross-check the computer accuracy.

The distributor truck shall effectively heat and mix the material to the required temperature prior to application in accordance with the manufacturer's recommendations.

The distributor shall be equipped with a hand sprayer to spray the emulsion in areas not accessible to the distributor truck.

c. Aggregate spreader. The asphalt distributor truck will be equipped with an aggregate spreader mounted to the distributor truck that can apply sand to the emulsion in a single pass operation without driving through wet emulsion. The aggregate spreader shall be equipped with a variable control system capable of uniformly distributing the sand at the specified rate at varying application widths and speeds. The aggregate spreader must be adjusted to produce an even and accurate application of specified aggregate. Prior to any seal coat application, the aggregate spreader will be calibrated onsite to ensure acceptable uniformity of spread. The RPR will observe the calibration and verify the results. The aggregate spreader will be re-calibrated each time the aggregate rate is changed either during the application of test strips or production. The Contractor may consult the seal coat manufacturer representative for procedure and guidance. The sander shall have a minimum hopper capacity of 3,000 pounds (1361 kg) of sand.

Push-type hand sanders will be allowed for use around lights, signs and other obstructions, if necessary.

d. Power broom/blower. A power broom and/or blower shall be provided for removing loose material from the surface to be treated.

e. Equipment calibration. Asphalt distributors must be calibrated within the same construction season in accordance with ASTM D2995. The Contractor must furnish a current calibration certification for the asphalt distributor truck from any State or other agency as approved by the RPR.

Changes to Plans:

1.04 Sheet 13 of the plan set has been revised to show new apron tie-down markings. Revised Sheet 13 is included in this addenda as an attachment.

1.05 Sheet 15 of the plan set has been revised to include details pertaining to the apron tie down markings. Revised Sheet 15 is included in this addenda as an attachment.

1.06 Three new sheets are included as an attachment to this addendum. These new sheets are from the solar structure project to be completed before the start of construction of this project.
1.06.1 Sheet E1.0, Collins Electric: Shows overall photovoltaic canopy structures within parking lot.
1.06.2 Sheet E1.0, Collins Electric: Tartaglia modified to include the remove and reconstruct areas.
1.06.3 Sheet S300, Collins Electric: Shows the typical section (height) of solar canopies.

Answers to Contractors' Questions:

1.07 It seems the dig out overlay on the solar plans did not make it to the Public Purchase site to download? Please advise. Thank you.
Answer: The overlay plan was mistakenly left out of the last addendum. It is now attached to this addendum (Item 1.06.2).

Bid Date and Time Remain the same, changed through Addendum 1:
2:00 pm, Friday, September 12, 2025

Bidding Contractors must acknowledge receipt of this Addendum in the appropriate blank on Page 17 of the contract book.

END OF ADDENDUM No. 2

/s/ Martin Pehl
General Manager

Attachments:
1. Revised Bid Schedule (page 16)
2. Revised Plan Sheets (13 and 15)
3. Solar Structure Plan Sheets (3 Sheets)

BID SCHEDULE
PARKING LOT AND APRON REHABILITATION

BID SCHEDULE						
ITEM #	**QTY**	**UNIT**	**ITEM DESCRIPTION**	**SPEC #**	**Unit Price (IN FIGURES)**	**TOTAL (IN FIGURES)**
1	1.0	LS	MOBILIZATION (8% Max)	C-105	$	$
2	1.0	LS	AIRPORT SAFETY AND SECURITY (5% Max)	C-101T	$	$
3	650.0	LF	SAWCUT	P-101	$	$
4	600.0	CY	REMOVE AND DISPOSE PAVEMENT SECTION	P-101	$	$
5	95.0	EA	REMOVE AND REPLACE PARKING BUMPER	P-101	$	$
6	12	EA	REMOVE AND FILL CONCRETE ANCHOR	P-101	$	$
7	1.0	LS	MARKING OBLITERATION 50%	P-101	$	$
8	1,900.0	SY	SUBGRADE PREPARATION	P-152	$	$
9	1.0	T&M	UNSUITABLE SUBGRADE ALLOWANCE	P-152	$ 10,000.00	$ 10,000.00
10	850.0	TON	AGGREGATE BASE – CALTRANS CLASS 2	CT-1	$	$
11	350.0	TON	HOT MIX ASPHALT - CALTRANS	CT-2	$	$
12	4,600.0	LF	CRACK FILL	P-605	$	$
13	10,050.0	SY	SEAL COAT TYPE A	P-608	$	$
14	9,050.0	SY	SEAL COAT TYPE B	P-608	$	$
15	9,050.0	SY	SEAL COAT TYPE C	P-608	$	$
16	4,000.0	SF	MARKING: SINGLE COAT W/O REFLECTIVE	P-620	$	$
17	1,800.0	SF	AIRFIELD MARKING: TWO COAT W/O REFLECTIVE	P-620	$	$
18	1,500.0	SF	AIRFIELD MARKING: TWO COAT WITH REFLECTIVE	P-620	$	$
TOTAL BID AMOUNT			_____ (Written in Words)		$_____ (Written in Figures)	

Complete the Bid Form by presenting Total Bid in Words and in Figures in the appropriate blanks on the following page.

LEGEND:

- WORK AREA
- CONTRACTOR YARD
- X-X-X CLOSURE DELINEATION
- PCC ANCHOR TO BE REMOVED
- EXISTING TIE DOWN ANCHOR TO REMAIN

IMPROVEMENT NOTES:

1. FILL VOIDS FROM CONCRETE TIE DOWN ANCHOR REMOVAL IN ACCORDANCE WITH DETAIL B, SHEET 14.
2. MASK AND PROTECT CONCRETE TIE DOWN ANCHORS BEFORE APPLYING SEAL COAT.
3. APPLY SEAL COAT PER DETAIL D, SHEET 14 AND CONSTRUCTION SEQUENCE NOTES, THIS PAGE (APPROX. 8,930 SY).
4. APPLY TAXIWAY EDGE STRIPE MARKINGS PER DETAILS B AND C, SHEET 15.
5. APPLY STOP MARKING PER DETAIL D, SHEET 15.
6. APPLY STOP BAR MARKING PER DETAIL G, SHEET 15.
7. MAINTAIN CLOSURE DELINEATION IN ACCORDANCE WITH DETAIL B, SHEET 2 FOR DURATION OF WORK.
8. APPLY TWO COAT TAXIWAY CENTERLINE MARKING IN ACCORDANCE WITH DETAIL J, SHEET 15.
9. APPLY TWO COAT APRON TIE DOWN MARKINGS IN ACCORDANCE WITH DETAIL H, SHEET 15.

A

CONSTRUCTION SEQUENCE NOTES:

1. FILL VOIDS FROM CONCRETE TIE DOWN ANCHOR REMOVAL IN ACCORDANCE WITH DETAIL B, SHEET 14
2. APPLY SEAL COAT TYPE B IN ACCORDANCE WITH DETAIL D, SHEET 14.
3. APPLY SEAL COAT TYPE C IN ACCORDANCE WITH DETAIL D, SHEET 14.
4. APPLY TWO COAT MARKINGS

SCALE BAR
0 10 20 40
1 inch = 20 ft.

UNDERGROUND SERVICE ALERT
811
DIAL 811
TWO WORKING DAYS BEFORE YOU DIG

IMPROVEMENT PLAN
APRON

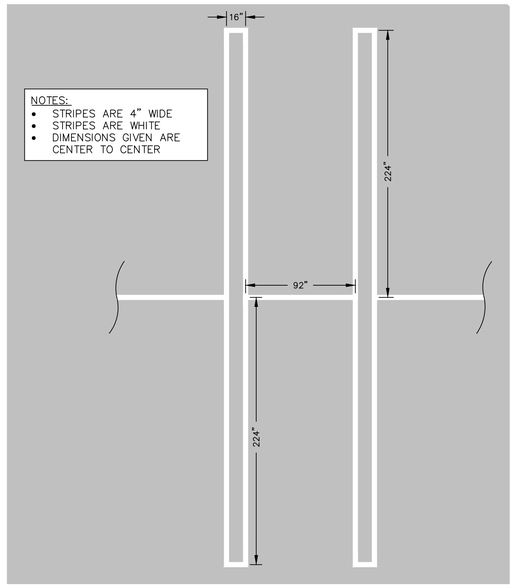
REV.	DESCRIPTION	DATE	APP.
A	APRON TIE–DOWN MARKINGS ADDED	8/25/25	JAS

TARTAGLIA ENGINEERING
SANTA MARIA PUBLIC AIRPORT
PARKING LOT & APRON REHABILITATION

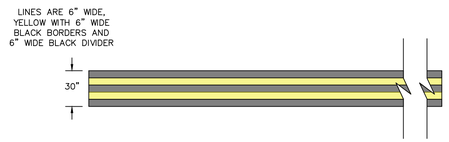
REGISTERED PROFESSIONAL ENGINEER
JOHN A. SMITH
No. 46852
EXP. 6–30–27
CIVIL
STATE OF CALIFORNIA

DESIGN LJG
DRAWN LJG
CHECKED JAS
DWG.NO. 25–42
DATE 8/8/2025
SHEET 13 OF 15

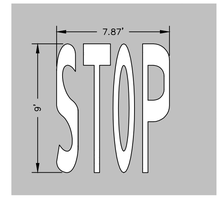
PLOT DATE:8/25/2025



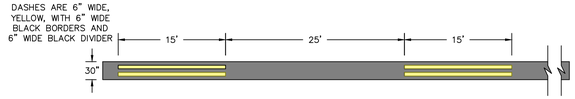
A/15 *PARKING STALL STRIPING*
NO SCALE



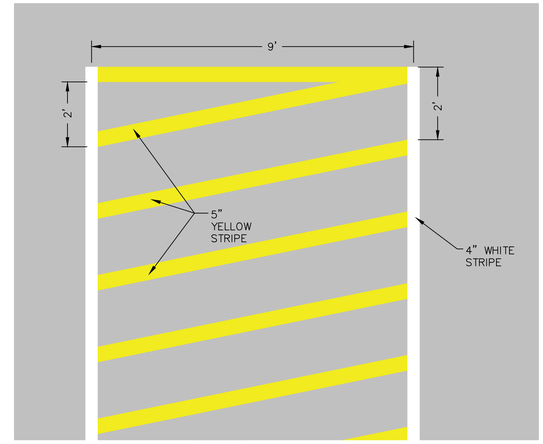
B/15 *TAXIWAY EDGE STRIPE*
NO SCALE



D/15 *"STOP" MARKING*
NO SCALE



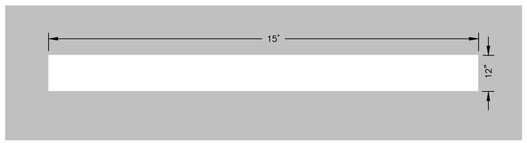
C/15 *DASHED TAXIWAY EDGE STRIPE*
NO SCALE



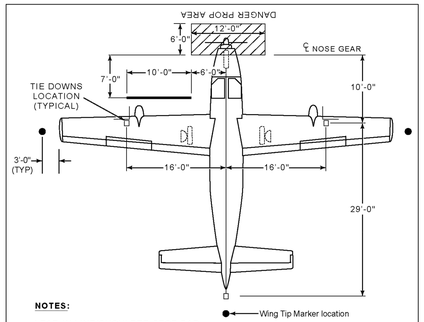
E/15 *PEDESTRIAN PATHWAY CHEVRON*
SCALE: 1" = 2'

LOCATION	PAINT					GLASS BEADS	
	AS DISPLAYED PER DETAIL	TYPE	COLOR	FED STD. 595 NUMBER	APPLICATION RATE MAXIMUM	TYPE	APPLICATION RATE MINIMUM
APRON		III	WHITE	37925	115 FT²/GAL	III	10 LB/GAL
APRON		III	YELLOW	33538 OR 33655	115 FT²/GAL	III	10 LB/GAL
APRON		III	BLACK	37038	115 FT²/GAL	N/A	NOT USED
PARKING LOT		III	WHITE	37925	115 FT²/GAL	N/A	NOT USED
PARKING LOT		III	YELLOW	33538 OR 33655	115 FT²/GAL	N/A	NOT USED

F/15 *MARKING MATERIAL STANDARDS*



G/15 *"STOP" BAR LIMIT LINE MARKING*
NO SCALE



NOTES:

LEAD-IN LINE/SHOULDER STOP BAR TO BE 6" TRAFFIC YELLOW W/BEADS.

DANGER PROP AREA TO BE 4" RED STRIPES AT A 45 DEG. ANGLE ON 2' CENTERS OVER 8" WHITE STRIPES AT A 45 DEG. ANGLE ON 2' CENTERS WITH 12" WHITE LETTERS.

4" RED STRIPE (30' X 41') WITH 12" WHITE LETTERS.

WING TIP MARKER LOCATION TO BE A 8" SOLID WHITE CIRCLE.

C208 Striping for Danger Prop Area
FIGURE 4-3-2

H/15 *TIE DOWN POSITION WITH PAVEMENT MARKINGS DETAIL*
NO SCALE

J/15 *TAXIWAY CENTERLINE MARKING*
NO SCALE

UNDERGROUND SERVICE ALERT
DIAL 811
TWO WORKING DAYS BEFORE YOU DIG

DETAILS
MARKINGS

REV.	DESCRIPTION	DATE	APP.
A	DETAILS ADDED FOR TIE DOWN MARKINGS	8/25/25	JAS

TARTAGLIA ENGINEERING

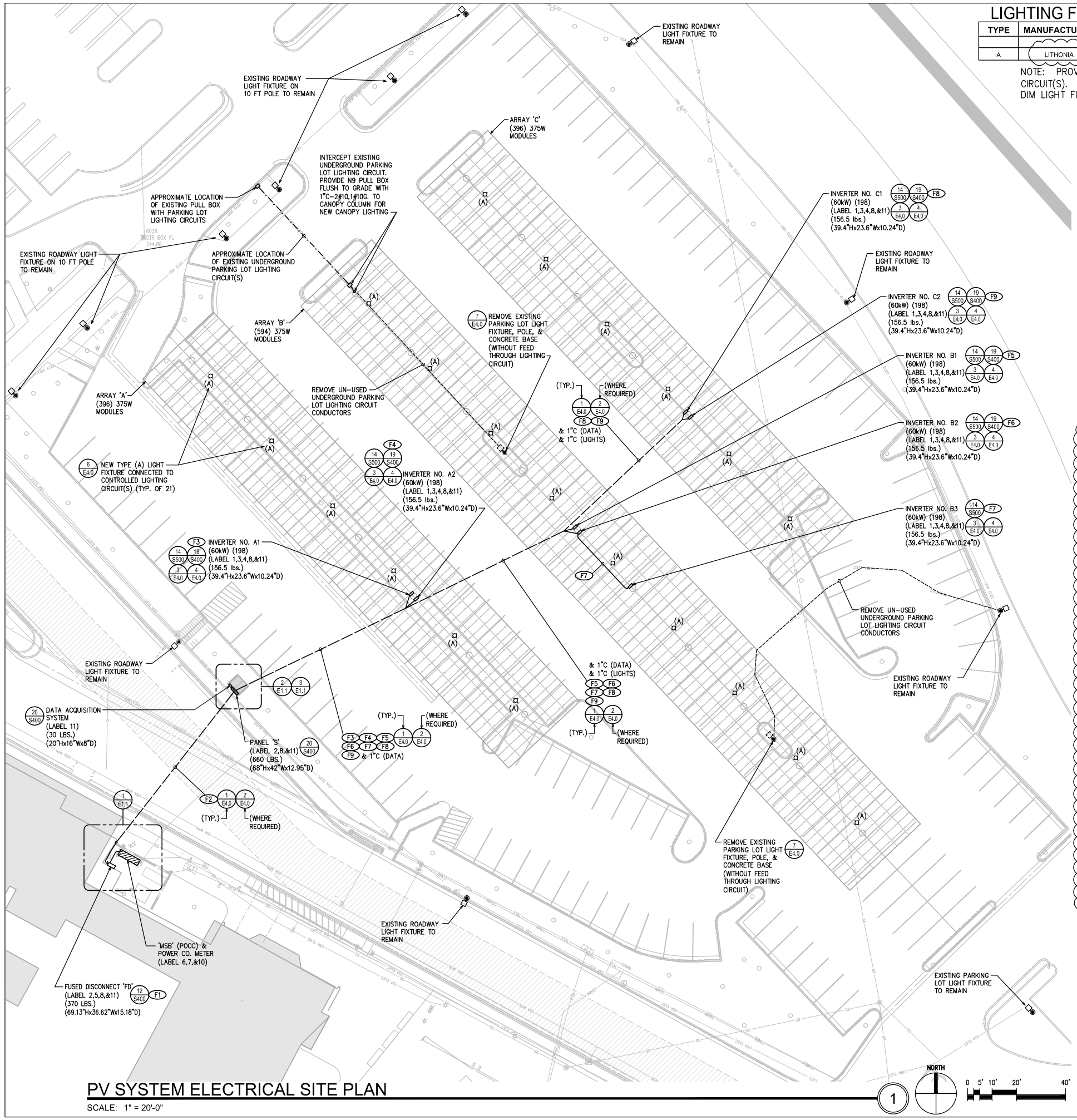
SANTA MARIA PUBLIC AIRPORT

PARKING LOT & APRON REHABILITATION

REGISTERED PROFESSIONAL ENGINEER — JOHN A. SMITH — No. 46852 — EXP. 6-30-27 — CIVIL — STATE OF CALIFORNIA

DESIGN	JAS
DRAWN	LJG
CHECKED	JAS
DWG.NO.	25-42
DATE	8/8/2025
SHEET	15 OF 15

PLOT DATE: 8/25/2025



PV SYSTEM ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

1

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NO.	SOURCE	WATTS	VOLT	MOUNTING
A	LITHONIA	VCPG LED P2 40K 80CRI T5R MVOLT PM	LED	34	120-277	PENDANT

NOTE: PROVIDE (21) NEW TYPE (A) LIGHT FIXTURES & CONNECT TO EXISTING CONTROLLED EXTERIOR LIGHTING CIRCUIT(S). VERIFY VOLTAGE, FOR 480V OPERATION ORDER WITH SD480 OPTION. OCCUPANCY SENSOR TO DIM LIGHT FIXTURE TO 50% DURING UN-OCCUPIED TIMES. ⚠

GENERAL ELECTRICAL NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO 2022 CBC, 2022 CEC ARTICLE 690 & OTHER APPLICABLE ARTICLES, CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS.
2. ALL EQUIPMENT TO HAVE TESTING LABORATORY LABEL ATTACHED.
3. CONDUCTORS SHALL BE THWN COPPER (CU) UNLESS NOTED AS ALUMINUM (AL).
4. ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITION MAY VARY, CONTRACTOR TO DETERMINE ACTUAL ROUTING AND PROVIDE ALL RECONNECTIONS & ITEMS NECESSARY FOR COMPLETE & OPERATING SYSTEMS.
5. ALL SOLAR ELECTRICAL EQUIPMENT TO BE UL 1741 LISTED, IEEE 1547 RATED, & APPROVED BY THE CALIFORNIA ENERGY COMMISSION.
6. ELECTRICAL EQUIPMENT (BRANDS "OR EQUAL" NOTE REQUIRED). OR EQUAL MATERIALS NEED TO BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE. LAYOUT LOCATIONS ARE REPRESENTATIVE AND ARE SUBJECT TO CHANGE WITH APPROVAL OF OWNER AND PERMITTING AUTHORITY, ETC.
7. PROVIDE "WARNING: PHOTOVOLTAIC POWER SOURCE" AFFIXED LABEL ON PV CONDUIT RUNS, BOXES, & CONDUIT BODIES INSIDE BUILDING.
8. STRING 1000V DC UL4703 (PV-WIRE) CABLING SHALL BE SUPPORTED TO MODULE & ARRAY STRUCTURE WITH WILEY ACME CABLE CLIPS.
9. ALL INVERTER DC STRING FUSES ARE 20 AMP UNLESS NOTED OTHERWISE.
10. HORIZONTAL DIRECTIONAL BORING OR TRENCHING FOR UNDERGROUND CONDUIT RUNS.
11. WHERE FEEDER CONDUCTORS ARE OVERSIZED FOR VOLTAGE DROP, PROVIDE CONDUCTOR REDUCING MEANS TO ACCOMMODATE INVERTER, PANEL, & DISCONNECT LUGS, SIZED PER CEC AMPACITY REQUIREMENTS. THE MINIMUM CONDUCTOR SIZE, FOR CIRCUIT BREAKERS LISTED FOR 75°C TERMINATING, SHALL BE: 60kW INVERTER #1, #6 GND. (AL)
12. REFER TO SHEETS E5.0 & E5.1 FOR REQUIRED SOLAR EQUIPMENT WARNING LABELING. REFER TO SHEET E1.0 FOR SOLAR EQUIPMENT LABELING LOCATIONS.
13. WHERE EXPOSED OUTDOORS, GALVANIZED RIGID STEEL CONDUIT TO BE INSTALLED BETWEEN LINE SIDE TAP & VERIFIABLE FUSED AC DISCONNECT.
14. SPECIAL ELECTRICAL INSPECTOR TESTING AGENCY SHALL BE AN INDEPENDENT THIRD PARTY INDIVIDUAL OR FIRM & SHALL NOT BE THE INSTALLING CONTRACTOR. THE SPECIAL ELECTRICAL INSPECTOR INCLUDES BUT IS NOT LIMITED TO, OBSERVATION OF THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS & SPECIFICATIONS, & SUBMISSION OF APPROPRIATE INSPECTION REPORTS TO THE CITY OF SANTA MARIA BUILDING INSPECTOR. THE SPECIAL ELECTRICAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO DEMONSTRATES COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR THE TYPE OF WORK &/OR TESTING REQUIRING SPECIAL INSPECTION. THESE INDIVIDUAL(S) OR FIRM(S) SHALL BE RESPONSIBLE FOR PERFORMING THE SPECIAL INSPECTION TASKS & REPORTS REQUIRED BY THE CALIFORNIA ELECTRIC CODE & CITY OF SANTA MARIA REGULATIONS. THE SPECIAL ELECTRICAL INSPECTOR(S) SHALL BE A DESIGNATED REGISTERED DESIGN PROFESSIONAL FAMILIAR WITH THE MATERIALS AND DESIGN OR A THIRD-PARTY INDIVIDUAL, FIRM OR TESTING AGENCY & SHALL NOT BE THE INSTALLING CONTRACTOR. THE SPECIAL ELECTRICAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE BUILDING INSPECTOR PRIOR TO CITY ISSUANCE OF FINAL INSPECTION APPROVAL OR OCCUPANCY APPROVAL, INCLUDING CONDITIONAL OCCUPANCY APPROVAL.
15. THE OWNER SHALL EMPLOY THE ENGINEER RESPONSIBLE FOR THE ELECTRICAL DESIGN, OR ANOTHER ENGINEER DESIGNATED BY THE ENGINEER RESPONSIBLE FOR THE ELECTRICAL DESIGN TO PERFORM VISUAL OBSERVATION OF COMPLEX ELECTRICAL EQUIPMENT & SYSTEMS FOR GENERAL CONFORMANCE TO THE APPROVED PLANS & SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO PLACEMENT & INTERCONNECTION OF EQUIPMENT. ELECTRICAL OBSERVATION SHALL BE PERFORMED AT SIGNIFICANT STAGES OF THE CONSTRUCTION & WHEN THE INSTALLATION IS COMPLETE & READY TO BE INSPECTED BY THE BUILDING OFFICIAL. ELECTRICAL OBSERVATION IS NOT IN LIEU OF REQUIRED BUILDING DIVISION ELECTRICAL INSPECTIONS. UPON COMPLETION OF THE PORTIONS OF THE WORK REQUIRING OBSERVATION, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING OFFICIAL OVER THE SEAL & SIGNATURE OF THE ENGINEER RESPONSIBLE FOR SUCH OBSERVATION. A CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE BUILDING OFFICIAL RECEIVES & APPROVES ANY REQUIRED OBSERVATION REPORTS & THE CERTIFICATES OF COMPLIANCE.

ELECTRICAL PV SYSTEM SPECIAL INSPECTION CHECKLIST:

THE FOLLOWING ELECTRICAL ITEMS SHALL BE INSPECTED AFTER INSTALLATION IS COMPLETE

- ❒ INVERTERS & PV MODULES SHALL BE LISTED OR BE EVALUATED FOR THIER APPLICATION AND HAVE A FIELD LABEL APPLIED. [CEC 690.4(B), NFPA 790 & 791]
- ❒ CONNECTIONS AHEAD OF THE SERVICE'S MAIN BREAKER (LINE SIDE) SHALL BE APPROVED BY THE SERVING UTILITY AND HAVE A LISTED CONNECTOR. [CEC 705.11(A) THROUGH (E)]
- ❒ CORRECT WIRE SIZE AND QUANTITY. [CEC 690.8 & 690.31]
- ❒ CORRECT BREAKER SIZES & TYPE. [CEC 690.9]
- ❒ CORRECT CONDUIT SIZES & FILL. [CEC TABLE C.1]
- ❒ CORRECT WIRE TYPES. [CEC TABLE 310.16]
- ❒ CORRECT BONDING AND GROUNDING. [CEC TABLE 250.122 & 690.41]
- ❒ TIGHTENED TERMINAL CONNECTIONS IN THE RIGHT LOCATIONS. [CEC 690.32]
- ❒ AC AND DC DISCONNECT SWITCHES PROVIDED AS APPLICABLE. [CEC 690.13]
- ❒ AC AND DC DISCONNECT SWITCHES ARE INSTALLED IN A READILY ACCESSIBLE LOCATION. [CEC 690.13(A)]
- ❒ AC AND DC DISCONNECT SWITCHES ARE WITHIN THE SPECIFIED DISTANCE TO THE PV EQUIPMENT OR ELECTRIC METER. [CEC 690.15 & 705.11(C)]
- ❒ AC AND DC DISCONNECT SWITCHES ARE EASILY ACCESSIBLE BE EMERGENCY PERSONNEL IN THE EVENT OF A FIRE. [CEC 690.13(A)]
- ❒ PLACARD SHOWING SITE LAYOUT IS NEXT TO THE METER INDICATING POWER SOURCES AND DISCONNECT SWITCHES. [CEC 690.56, 705.8 & 712.10]
- ❒ ALL REQUIRED SAFETY AND SYSTEM SPECIFICATION LABELS THROUGHOUT THE SYSTEM. [CEC 690.51]

APPROVED
CITY OF SANTA MARIA
COMMUNITY DEVELOPMENT
6/23/2025
Building by: EH
Planning by: CG

ELECTRICAL SYMBOLS:

- CONDUIT OR CABLE RUN ABOVE GRADE
- NEW CONDUIT OR CABLE RUN UNDERGROUND
- EXISTING CONDUIT RUN UNDERGROUND TO REMAIN
- EXISTING TO BE REMOVED
- CONDUIT STUB OUT
- A-2 HOMERUN OF CONDUIT AND WIRING, CIRCUIT NO. 2 TO PANEL 'A'
- POWER EQUIPMENT AS NOTED
- INVERTER AS NOTED
- J JUNCTION BOX
- GROUND
- T TRANSFORMER
- CIRCUIT BREAKER
- DISCONNECT SWITCH AS NOTED
- FUSE
- M METER
- (E) EXISTING
- (N) NEW
- F# ELECTRICAL FEEDER NO. CALL OUT, REFER TO FEEDER SCHEDULE ON SHEET E2.0
- PARKING LOT LIGHT, POLE, & CONCRETE BASE
- LED LIGHT FIXTURE, SURFACE MOUNTED

SYSTEM HOST

SANTA MARIA AIRPORT SMX
Santa Maria Public Airport District
3217 Terminal Dr.
Santa Maria, CA 93455

SYSTEM DEVELOPER

FOREFRONT POWER
100 Montgomery Street #725
San Francisco, CA 94104
855-204-5083

ELECTRICAL CONSTRUCTORS AND ENGINEERS

COLLINS ELECTRICAL COMPANY INC.
1902 Channel Drive
West Sacramento, CA 95691
916-567-1100

STRUCTURAL ENGINEERING AND STEEL CONSTRUCT

TEICHERT SOLAR
10620 Treena Street, Ste. 140
San Diego, CA 92131
562-283-2970

ARCHITECT OF RECORD

M M P V d e s i g n
Mariana Moncada, Architect
718 West Arbor Drive
San Diego, CA 92103
619.632.2883

ARCHITECT / ENGINEER OF RECORD

REGISTERED PROFESSIONAL ENGINEER R.J.HARDIN No. 9125 ELECTRICAL STATE OF CALIFORNIA

FFP PROJECT #
CA-22-0054

PROJECT

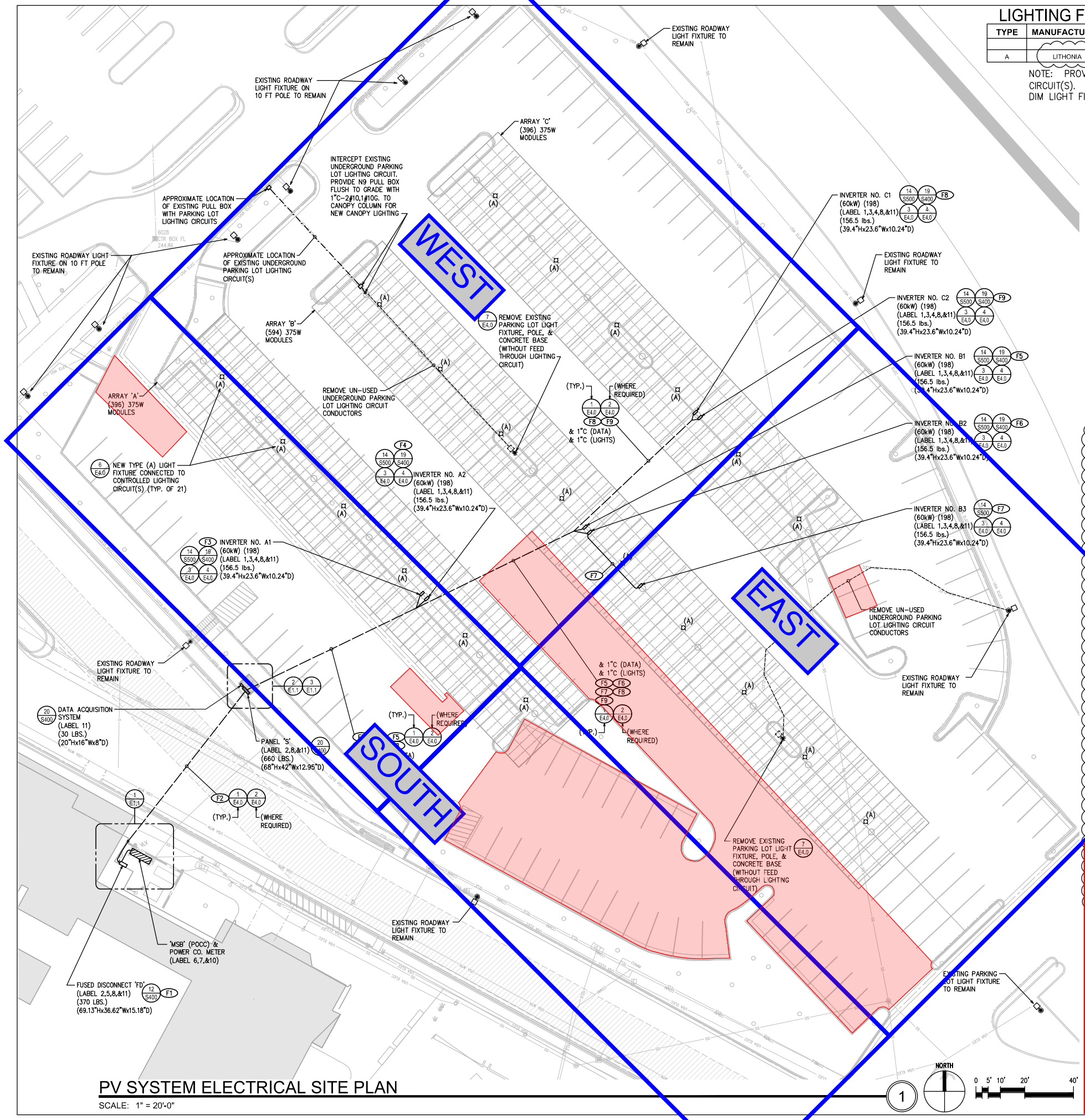
SANTA MARIA AIRPORT SOLAR ARRAY
SANTA MARIA AIRPORT
3249 TERMINAL DRIVE
SANTA MARIA, CA 93455

NO.	REVISION	DATE
⚠1	PLAN CHECK 1st REV	05.29.24

DATE:
05.29.24

SHEET TITLE
PV SYSTEM ELECTRICAL SITE PLAN

SHEET NO.:
E1.0



PV SYSTEM ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NO.	SOURCE	WATTS	VOLT	MOUNTING
A	LITHONIA	VCPG LED P2 40K 80CRI T5R MVOLT PM	LED	34	120-277	PENDANT

NOTE: PROVIDE (21) NEW TYPE (A) LIGHT FIXTURES & CONNECT TO EXISTING CONTROLLED EXTERIOR LIGHTING CIRCUIT(S). VERIFY VOLTAGE, FOR 480V OPERATION ORDER WITH SD480 OPTION. OCCUPANCY SENSOR TO DIM LIGHT FIXTURE TO 50% DURING UN-OCCUPIED TIMES. ⚠

GENERAL ELECTRICAL NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO 2022 CBC, 2022 CEC ARTICLE 690 & OTHER APPLICABLE ARTICLES, CODES AND ORDINANCES. IT IS THE INTENTION OF THESE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND OPERATIVE SYSTEMS.
2. ALL EQUIPMENT TO HAVE TESTING LABORATORY LABEL ATTACHED.
3. CONDUCTORS SHALL BE THWN COPPER (CU) UNLESS NOTED AS ALUMINUM (AL).
4. ELECTRICAL ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING & PHYSICAL CONDITION MAY VARY, CONTRACTOR TO DETERMINE ACTUAL ROUTING AND PROVIDE ALL RECONNECTIONS & ITEMS NECESSARY FOR COMPLETE & OPERATING SYSTEMS.
5. ALL SOLAR ELECTRICAL EQUIPMENT TO BE UL 1741 LISTED, IEEE 1547 RATED, & APPROVED BY THE CALIFORNIA ENERGY COMMISSION.
6. ELECTRICAL EQUIPMENT (BRANDS "OR EQUAL" NOTE REQUIRED). OR EQUAL MATERIALS NEED TO BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE. LAYOUT LOCATIONS ARE REPRESENTATIVE AND ARE SUBJECT TO CHANGE WITH APPROVAL OF OWNER AND PERMITTING AUTHORITY, ETC.
7. PROVIDE "WARNING: PHOTOVOLTAIC POWER SOURCE" AFFIXED LABEL ON PV CONDUIT RUNS, BOXES, & CONDUIT BODIES INSIDE BUILDING.
8. STRING 1000V DC UL4703 (PV-WIRE) CABLING SHALL BE SUPPORTED TO MODULE & ARRAY STRUCTURE WITH WILEY ACME CABLE CLIPS.
9. ALL INVERTER DC STRING FUSES ARE 20 AMP UNLESS NOTED OTHERWISE.
10. HORIZONTAL DIRECTIONAL BORING OR TRENCHING FOR UNDERGROUND CONDUIT RUNS.
11. WHERE FEEDER CONDUCTORS ARE OVERSIZED FOR VOLTAGE DROP, PROVIDE CONDUCTOR REDUCING MEANS TO ACCOMMODATE INVERTER, PANEL, & DISCONNECT LUGS, SIZED PER CEC AMPACITY REQUIREMENTS. THE MINIMUM CONDUCTOR SIZE, FOR CIRCUIT BREAKERS LISTED FOR 75°C TERMINATING, SHALL BE: 60kW INVERTER #1, #6 GND. (AL)
12. REFER TO SHEETS E5.0 & E5.1 FOR REQUIRED SOLAR EQUIPMENT WARNING LABELING. REFER TO SHEET E1.0 FOR SOLAR EQUIPMENT LABELING LOCATIONS.
13. WHERE EXPOSED OUTDOORS, GALVANIZED RIGID STEEL CONDUIT TO BE INSTALLED BETWEEN LINE SIDE TAP & VERIFIABLE FUSED AC DISCONNECT.
14. SPECIAL ELECTRICAL INSPECTOR TESTING AGENCY SHALL BE AN INDEPENDENT THIRD PARTY INDIVIDUAL OR FIRM & SHALL NOT BE THE INSTALLING CONTRACTOR. THE SPECIAL ELECTRICAL INSPECTOR INCLUDES BUT IS NOT LIMITED TO, OBSERVATION OF THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS & SPECIFICATIONS, & SUBMISSION OF APPROPRIATE INSPECTION REPORTS TO THE CITY OF SANTA MARIA BUILDING INSPECTOR. THE SPECIAL ELECTRICAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO DEMONSTRATES COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR THE TYPE OF WORK &/OR TESTING REQUIRING SPECIAL INSPECTION. THESE INDIVIDUAL(S) OR FIRM(S) SHALL BE RESPONSIBLE FOR PERFORMING THE SPECIAL INSPECTION TASKS & REPORTS REQUIRED BY THE CALIFORNIA ELECTRIC CODE & CITY OF SANTA MARIA REGULATIONS. THE SPECIAL ELECTRICAL INSPECTOR(S) SHALL BE A DESIGNATED REGISTERED DESIGN PROFESSIONAL FAMILIAR WITH THE MATERIALS AND DESIGN OR A THIRD-PARTY INDIVIDUAL, FIRM OR TESTING AGENCY & SHALL NOT BE THE INSTALLING CONTRACTOR. THE SPECIAL ELECTRICAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE BUILDING INSPECTOR PRIOR TO CITY ISSUANCE OF FINAL INSPECTION APPROVAL OR OCCUPANCY APPROVAL, INCLUDING CONDITIONAL OCCUPANCY APPROVAL.
15. THE OWNER SHALL EMPLOY THE ENGINEER RESPONSIBLE FOR THE ELECTRICAL DESIGN, OR ANOTHER ENGINEER DESIGNATED BY THE ENGINEER RESPONSIBLE FOR THE ELECTRICAL DESIGN TO PERFORM VISUAL OBSERVATION OF COMPLEX ELECTRICAL EQUIPMENT & SYSTEMS FOR GENERAL CONFORMANCE TO THE APPROVED PLANS & SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO PLACEMENT & INTERCONNECTION OF EQUIPMENT. ELECTRICAL OBSERVATION SHALL BE PERFORMED AT SIGNIFICANT STAGES OF THE CONSTRUCTION & WHEN THE INSTALLATION IS COMPLETE & READY TO BE INSPECTED BY THE BUILDING OFFICIAL. ELECTRICAL OBSERVATION IS NOT IN LIEU OF REQUIRED BUILDING DIVISION ELECTRICAL INSPECTIONS. UPON COMPLETION OF THE PORTIONS OF THE WORK REQUIRING OBSERVATION, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING OFFICIAL OVER THE SEAL & SIGNATURE OF THE ENGINEER RESPONSIBLE FOR SUCH OBSERVATION. A CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THE BUILDING OFFICIAL RECEIVES & APPROVES ANY REQUIRED OBSERVATION REPORTS & THE CERTIFICATES OF COMPLIANCE.

ELECTRICAL PV SYSTEM SPECIAL INSPECTION CHECKLIST:

THE FOLLOWING ELECTRICAL ITEMS SHALL BE INSPECTED AFTER INSTALLATION IS COMPLETE

- ❒ INVERTERS & PV MODULES SHALL BE LISTED OR BE EVALUATED FOR THIER APPLICATION AND HAVE A FIELD LABEL APPLIED. [CEC 690.4(B), NFPA 790 & 791]
- ❒ CONNECTIONS AHEAD OF THE SERVICE'S MAIN BREAKER (LINE SIDE) SHALL BE APPROVED BY THE SERVING UTILITY AND HAVE A LISTED CONNECTOR. [CEC 705.11(A) THROUGH (E)]
- ❒ CORRECT WIRE SIZE AND QUANTITY. [CEC 690.8 & 690.31]
- ❒ CORRECT BREAKER SIZES & TYPE. [CEC 690.9]
- ❒ CORRECT CONDUIT SIZES & FILL. [CEC TABLE C.1]
- ❒ CORRECT WIRE TYPES. [CEC TABLE 310.16]
- ❒ CORRECT BONDING AND GROUNDING. [CEC TABLE 250.122 & 690.41]
- ❒ TIGHTENED TERMINAL CONNECTIONS IN THE RIGHT LOCATIONS. [CEC 690.32]
- ❒ AC AND DC DISCONNECT SWITCHES PROVIDED AS APPLICABLE. [CEC 690.13]
- ❒ AC AND DC DISCONNECT SWITCHES ARE INSTALLED IN A READILY ACCESSIBLE LOCATION. [CEC 690.13(A)]
- ❒ AC AND DC DISCONNECT SWITCHES ARE WITHIN THE SPECIFIED DISTANCE TO THE PV EQUIPMENT OR ELECTRIC METER. [CEC 690.15 & 705.11(C)]

APPROVED
CITY OF SANTA MARIA
COMMUNITY DEVELOPMENT
6/23/2025
Building by: EH
Planning by: CG

PLAN SHEET MODIFIED BY TARTAGLIA ENGINEERING

FOR INFORMATION ONLY
PAVEMENT REMOVE & REPLACE AREAS
(DEMOLITION PLAN SHEETS 3, 4, 5, 6)

SYSTEM HOST

SANTA MARIA AIRPORT SMX
Santa Maria Public Airport District
3217 Terminal Dr.
Santa Maria, CA 93455

SYSTEM DEVELOPER

FOREFRONT POWER
100 Montgomery Street #725
San Francisco, CA 94104
855-204-5083

ELECTRICAL CONSTRUCTORS AND ENGINEERS

COLLINS ELECTRICAL COMPANY INC.
1902 Channel Drive
West Sacramento, CA 95691
916-567-1100

STRUCTURAL ENGINEERING AND STEEL CONSTRUCT

TEICHERT SOLAR
10620 Treena Street, Ste. 140
San Diego, CA 92131
562-283-2970

ARCHITECT OF RECORD

M M P V d e s i g n
Mariana Moncada, Architect
718 West Arbor Drive
San Diego, CA 92103
619.632.2883

ARCHITECT / ENGINEER OF RECORD

REGISTERED PROFESSIONAL ENGINEER R.J.HARDIN NO. 9125 ELECTRICAL STATE OF CALIFORNIA

FFP PROJECT #
CA-22-0054

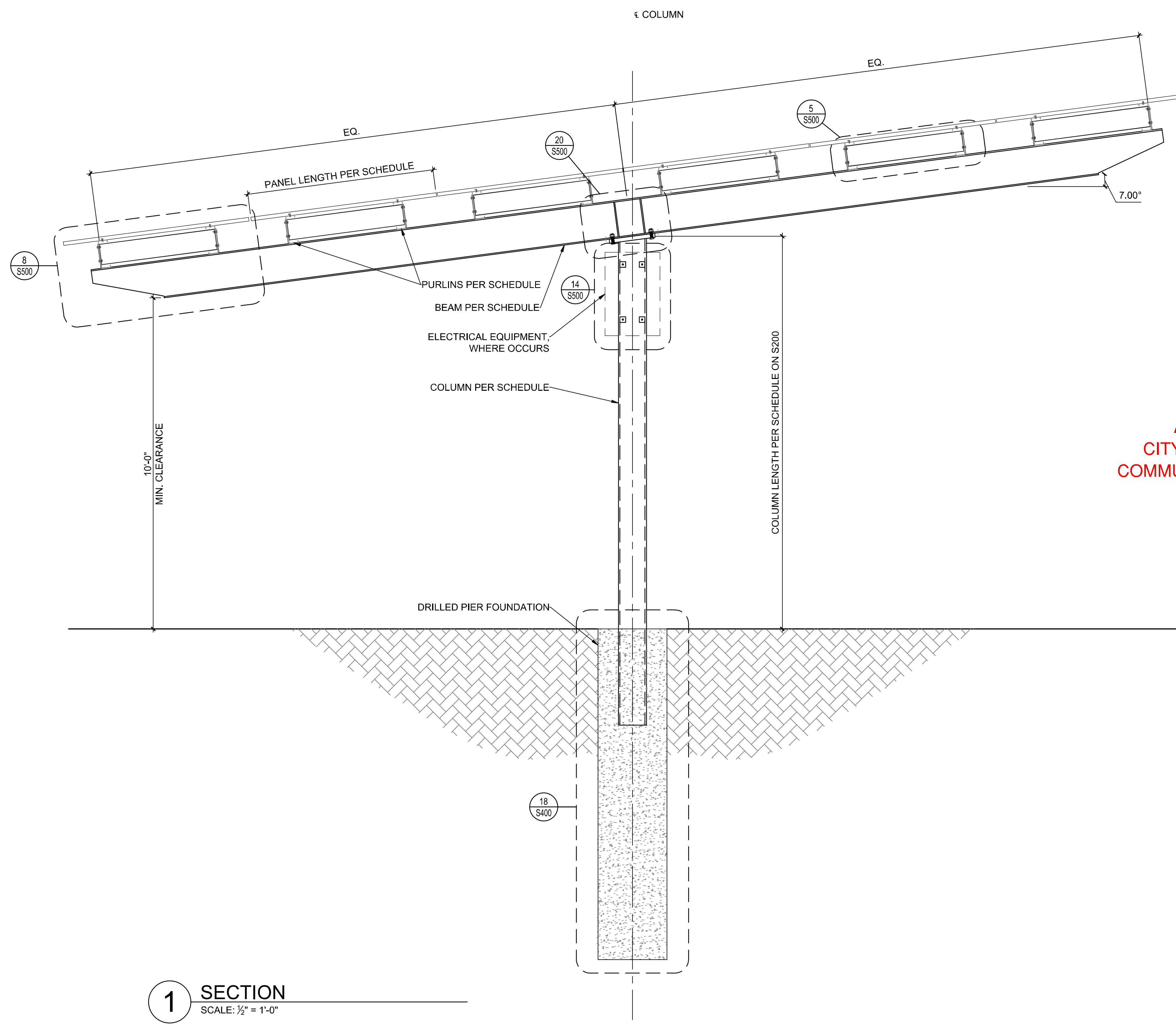
PROJECT
SANTA MARIA AIRPORT SOLAR ARRAY
SANTA MARIA AIRPORT
3249 TERMINAL DRIVE
SANTA MARIA, CA 93455

NO.	REVISION	DATE
⚠	PLAN CHECK 1st REV	05.29.24

DATE:
05.29.24

SHEET TITLE
PV SYSTEM ELECTRICAL SITE PLAN

SHEET NO.:
E1.0



1 SECTION
SCALE: ½" = 1'-0"

APPROVED
CITY OF SANTA MARIA
COMMUNITY DEVELOPMENT
6/23/2025
Building by: EH
Planning by: CG

SYSTEM HOST

SANTA MARIA AIRPORT SMX

City of Santa Maria
110 E. Cook Street
Santa Maria, CA 93454
805-925-0951

SYSTEM DEVELOPER

FOREFRONT POWER
100 Montgomery Street #1400
San Francisco, CA 94104
855-204-5083

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ARCHITECT / ENGINEER OF RECORD

FFP PROJECT #
CA-22-0054

PROJECT

SANTA MARIA AIRPORT SOLAR ARRAY
SANTA MARIA AIRPORT
3429 TERMINAL DRIVE
SANTA MARIA, CA 93455

NO.	REVISION	DATE

DATE: 06.26.23

SHEET TITLE
SECTION - 6X

SHEET NO.:
S300